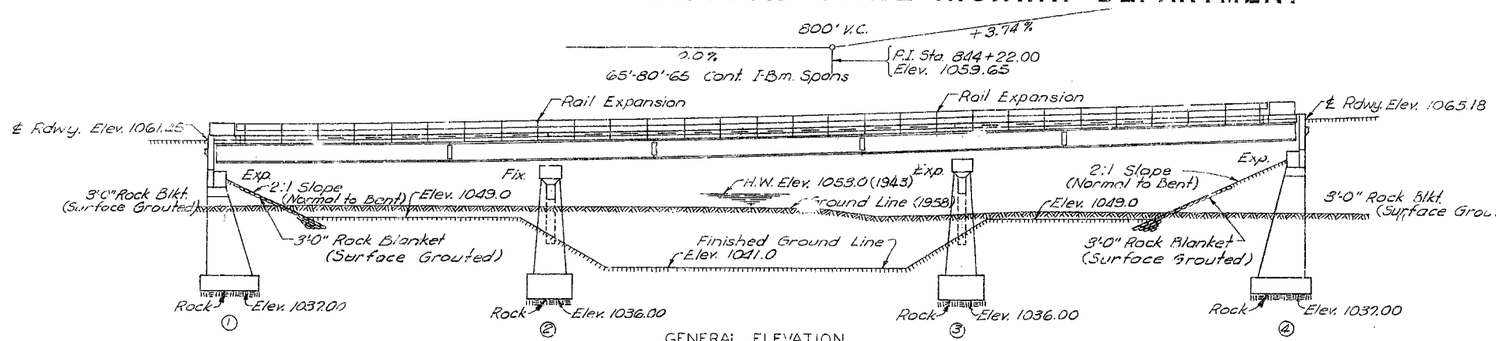
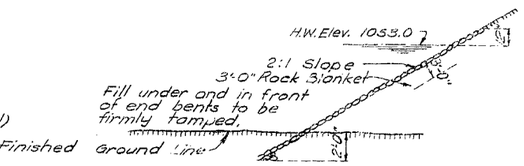
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	43	



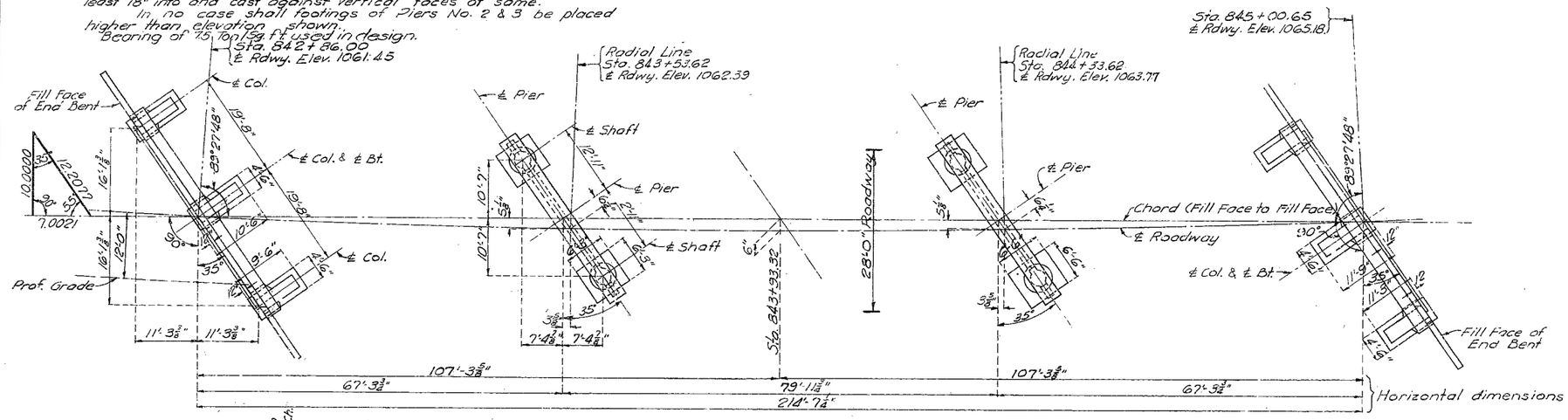
GENERAL ELEVATION



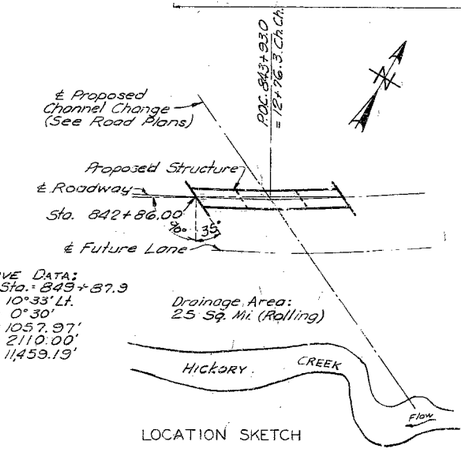
Note: 3'0" Rock Blanket shall be placed on fills of ends of bridge as shown in sketch. See Road Plans for Quantities.

ROCK BLANKET SKETCH

Note: All loose, shelly or disintegrated rock shall be removed and the footings placed on hard, solid, undisturbed rock. If soft rock or shale is encountered, the footings shall be carried at least 18" into and cast against vertical faces of same.
In no case shall footings of Piers No. 2 & 3 be placed higher than elevation shown.
Bearing of 15 Ton/Sq. ft. used in design.



PLAN



CURVE DATA:
P.I. Sta. = 849+87.9
Δ = 10°33' Lt.
D = 0°30'
T = 1057.97'
L = 2110.00'
R = 11,459.19'

Drainage Area:
25 Sq. Mi. (Rolling)

LOCATION SKETCH

ESTIMATED QUANTITIES				
Item		Substr.	Superstr.	Total
Class 1 Excavation for Structures	Cu. Yds.	330		330
Class 2 Excavation for Structures	Cu. Yds.	193		193
Class "B" Concrete	Cu. Yds.	223.2		223.2
Class "B-1" Concrete	Cu. Yds.		163.4	163.4
Fabricated Structural Steel	Lbs.		185,630	185,630
Steel Castings	Lbs.		5220	5220
Reinforcing Steel	Lbs.	16,770	46,910	63,680

Note: Excavation for bridge made above Elev. 1042.0 will be paid for as Class 1 Excavation for Structures.
Excavation for bridge made below Elev. 1042.0 will be paid for as Class 2 Excavation for Structures.
Final pay weight for Fabricated Structural Steel will be based on using field rivets except for bolted connections specified for handrail.

GENERAL NOTES:

Design Specifications: A.A.S.H.O.-1957
Loading: H20-44; Future wearing surface; 15#/□'
Structural Steel Stress: 18,000#/□"
Reinforcing Steel Stress: 20,000#/□"
Concrete Class "B" Stress: 1200#/□"

Concrete for superstructure shall be Class "B-1" air-entrained.
Concrete for substructure shall be Class "B" air-entrained. If the Contractor desires he may use Class "B-1" in lieu of Class "B" for concrete in substructure with payment on the basis of Class "B" concrete.
Rivets ¾" ϕ; holes ⅞" ϕ except as noted.
Field connections shall be riveted except as noted in handrail details, or if the Contractor desires to eliminate all field riveting on this project, he may use High Tensile Steel bolts with carburized washers in place of rivets.
Qualification of welding operators will be required.
Paint: Shop, none; Field, contact surfaces of bolted field connections, except where high tensile bolts are used, one coat of red lead and surfaces inaccessible after erection three coats of red lead. All other exposed surfaces first coat red lead, second coat brown, third coat aluminum.
Payment for cleaning and all painting will be made under unit price bid for painting.
Where joint filler is specified on the plans it shall conform with the requirements for Gray Rubber Compound Joints as given in Section 59-22B of the Standard Specifications.

B.M. #87 Elev. 1051.55 Spike & 2 Nuts in S. Side 18" Ash 50' Rt. Sta. 845+00

BRIDGE OVER HICKORY CREEK
STATE ROAD: NEOSHO BY-PASS
ABOUT 3.0 MILES S.E. OF NEOSHO
PROJECT NO. F-444(4)(RT. 60 TR) **STA.** 842+86
NEWTON **COUNTY**

SUBMITTED BY J. A. Williams BRIDGE ENGINEER DATE 1-29-1959
APPROVED BY Rex M. Whitton CHIEF ENGINEER DATE 1-29-1959

FINISHED
STD. C-110R7
A-333
FINISHED
FINISHED

Drawn Sept. 1958 by M.H.P.
Checked Jan. 1959 by C.S.A.

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1 of 8.

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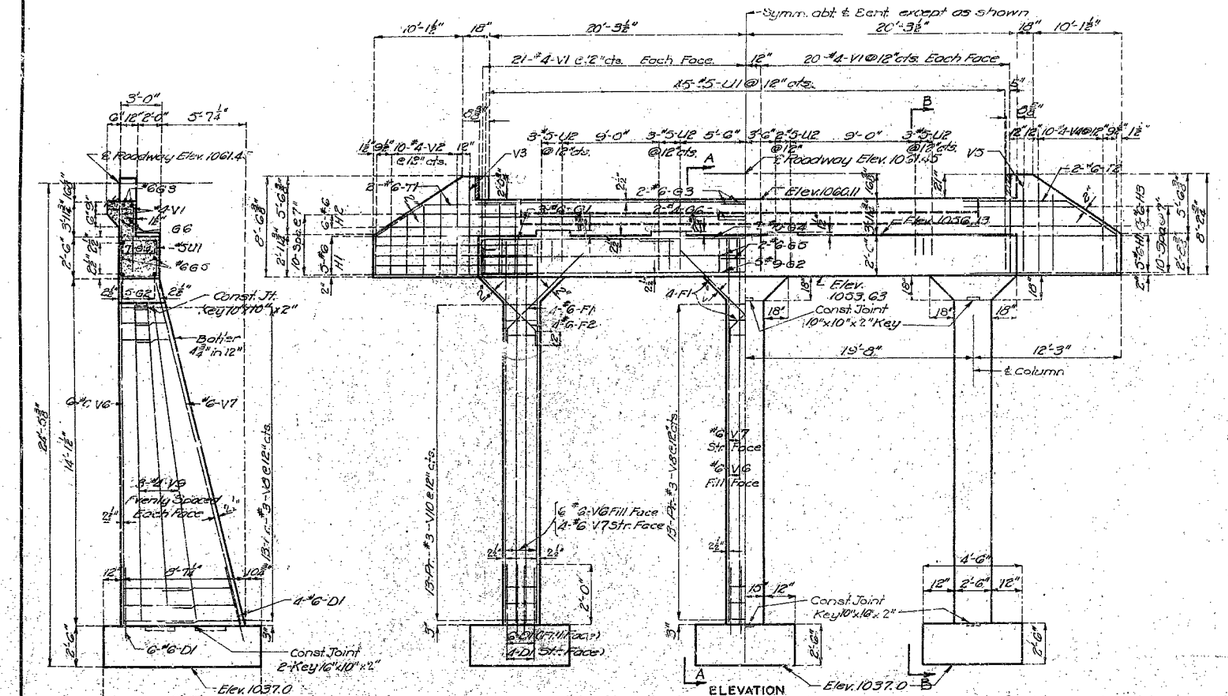
SEE FINAL PLANS BROWN-LINES

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	-	15	44	



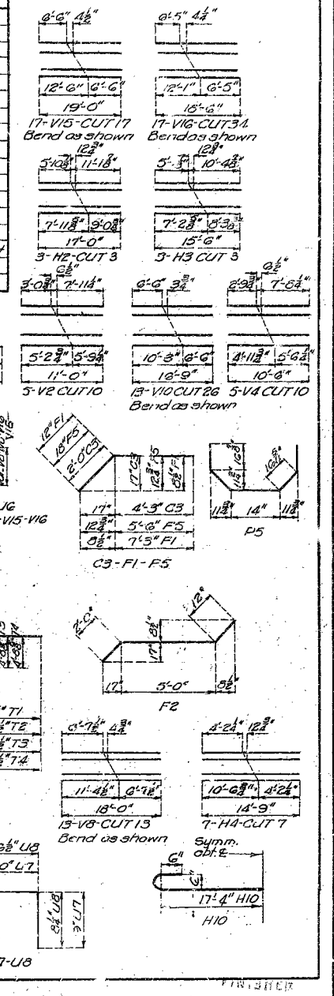
DETAILS OF END BENT NO.1

Note: Fill shall not be carried above bottom of beam and wing until superstructure Span (1-2) is in place.

COMPLETE BILL OF REINFORCING STEEL

No.	Size	Length	Mark	Location
End Bent No. 1				
30	#6	4'-6"	D1	Footing
16	#6	8'-3"	F1	Hch.
8	#6	8'-0"	F2	"
6	#6	17'-3"	G1	Beam
5	#9	44'-6"	G2	"
4	#6	21'-3"	G3	Bak Wall
7	#10	16'-0"	G4	Beam
4	#6	23'-9"	G5	"
4	#4	21'-6"	G6	Bak Wall
10	#6	11'-6"	H1	Wing
9	#6	17'-0"	H2	"
3	#6	15'-6"	H3	"
2	#6	17'-9"	T1	Wing
2	#6	16'-9"	T2	"
45	#5	11'-0"	U1	Beam
11	#5	3'-9"	U2	"
82	#4	6'-0"	V1	Bak Wall
5	#4	11'-0"	V2	Wing
1	#4	8'-3"	V3	"
5	#4	10'-6"	V4	"
1	#4	8'-0"	V5	"
18	#6	16'-0"	V6	Col.
12	#6	17'-0"	V7	"
13	#3	18'-0"	V8	"
14	#4	14'-0"	V9	"
26	#3	16'-9"	V10	"
Int. Pier No. 2				
16	#8	5'-6"	D5	Footing
4	#6	7'-0"	F5	Hch.
6	#7	10'-3"	H5	Cap.
4	#6	34'-0"	H6	"
2	#7	35'-0"	H7	"
3	#8	27'-6"	H8	Web.
8	#4	28'-6"	H9	"
4	#7	35'-5"	H10	Cap.
12	#8	7'-9"	P1	Shaft
22	#5	10'-0"	P4	Web.
34	#5	6'-9"	P5	Cap.
16	#8	11'-6"	P2	Shaft
22	#4	11'-6"	P3	Web.
5	#6	2'-9"	U8	Cap.
36	#8	6'-6"	U5	Cap.
9	#4	4'-5"	U6	"
2	#4	3'-6"	U7	"
Int. Pier No. 3				
16	#8	5'-6"	D3	Footing
4	#6	7'-0"	F3	Hch.
6	#7	10'-3"	H5	Cap.
4	#6	34'-0"	H6	"
2	#7	35'-0"	H7	"
3	#8	27'-6"	H8	Web.
8	#4	28'-6"	H9	"
4	#7	37'-3"	H10	Cap.
16	#8	7'-9"	P1	Shaft
16	#8	13'-0"	P6	"
22	#5	10'-0"	P4	Web.
34	#5	6'-9"	P5	Cap.
22	#4	13'-0"	P7	Web.
36	#6	6'-6"	U5	Cap.
9	#4	4'-5"	U6	"
2	#4	3'-6"	U7	"
4	#4	2'-9"	U8	"
End Bent No. 4				
30	#6	4'-6"	D1	Footing
16	#6	8'-3"	F1	Hch.
8	#6	8'-0"	F2	"
6	#6	17'-3"	G1	Beam
5	#9	44'-6"	G2	"
4	#6	21'-3"	G3	Bak Wall
7	#10	16'-0"	G4	Beam
4	#4	21'-6"	G6	Bak Wall
11	#6	11'-3"	H1	Wing
7	#6	14'-9"	H4	"
4	#4	23'-3"	G5	Beam
2	#6	17'-9"	T3	Wing
2	#6	17'-8"	T4	"
45	#5	11'-0"	U1	Beam
11	#5	3'-9"	U2	"
5	#4	11'-0"	V2	Wing
1	#4	8'-3"	V3	"
5	#4	10'-6"	V4	"
1	#4	8'-0"	V5	"
18	#6	20'-0"	V12	Col.
12	#6	21'-0"	V13	"
18	#4	17'-9"	V14	"
17	#3	19'-0"	V15	"
34	#3	18'-6"	V16	"
Superstructure				
20	#5	4'-3"	C1	Curb
312	#5	3'-3"	C2	"
4	#5	6'-3"	C3	"
12	#6	35'-6"	C4	"
18	#6	28'-0"	C5	"
12	#6	34'-6"	C6	"
884	#5	31'-3"	S1	Slab
90	#5	32'-9"	S2	"
400	#5	28'-3"	S3	"
80	#5	16'-0"	S4	"
40	#5	2'-6"	S5	"
2	#5	21'-0"	S6	"
24	#4	3'-9"	R1	End Post
20	#5	6'-6"	R2	"

Loading Sketches & Cutting Diagram



BRIDGE OVER HICKORY CREEK

STATE ROAD: NEOSHO BY-PASS

ABOUT 3.0 MILES S.E. OF NEOSHO

PROJECT NO. F-444(4)(RTE.60TR) STA. 842+86

NEWTON COUNTY

FINISHED

A-333

Assembled Sept. 1958 by JRG & JRS

Checked Jan. 1959 by C.S.A.

Note: This drawing is not to scale. Follow Dimensions.

Sheet 1 to 2 of 3.

SEE FINAL PLANS BROWN-LINES

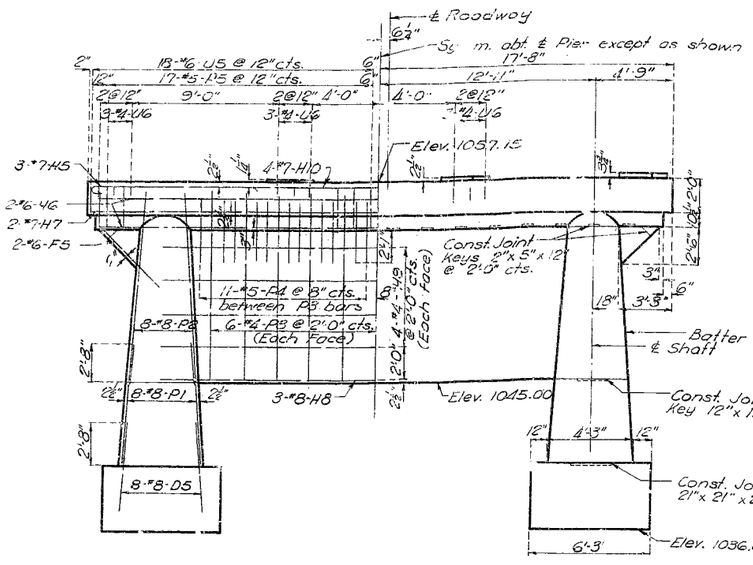
3 Col. End. Square or Skewed

H15, H20 / H20-S16

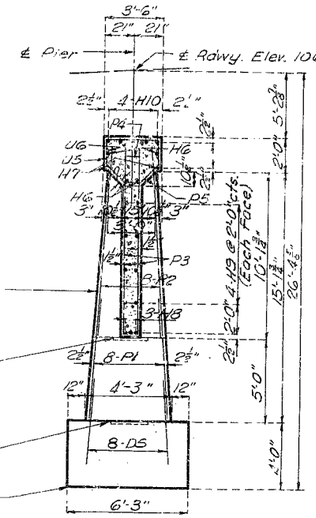
19

MISSOURI STATE HIGHWAY DEPARTMENT

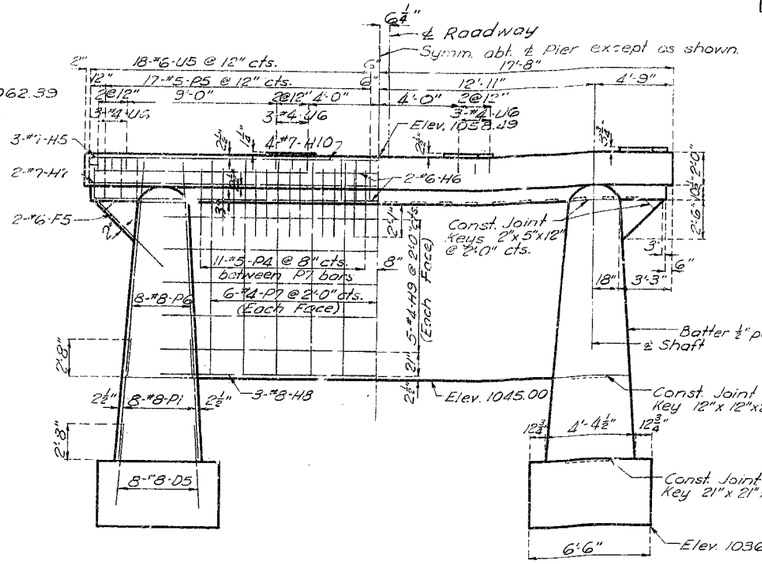
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	45	



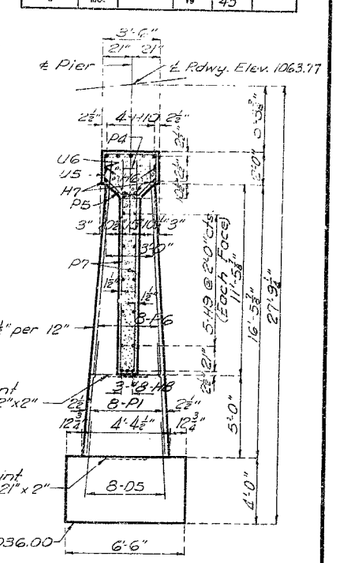
ELEVATION



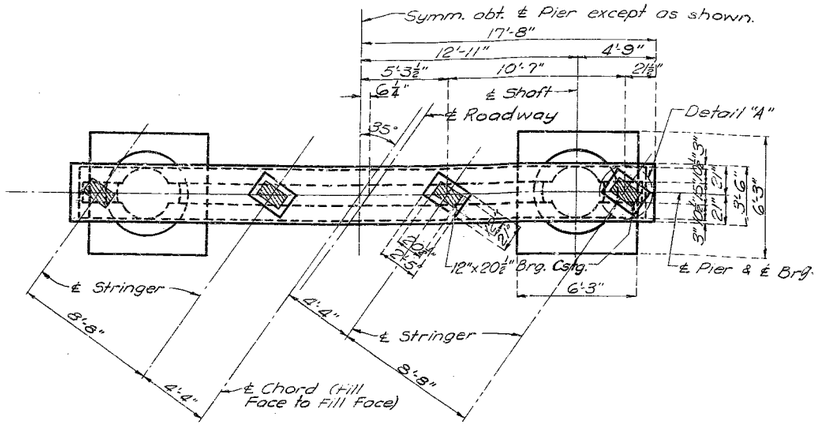
SECTION AT ℄



ELEVATION

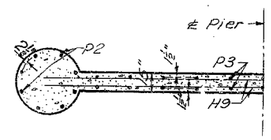


SECTION AT ℄



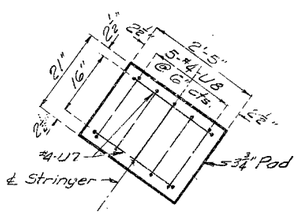
PLAN

DETAILS OF PIER NO. 2

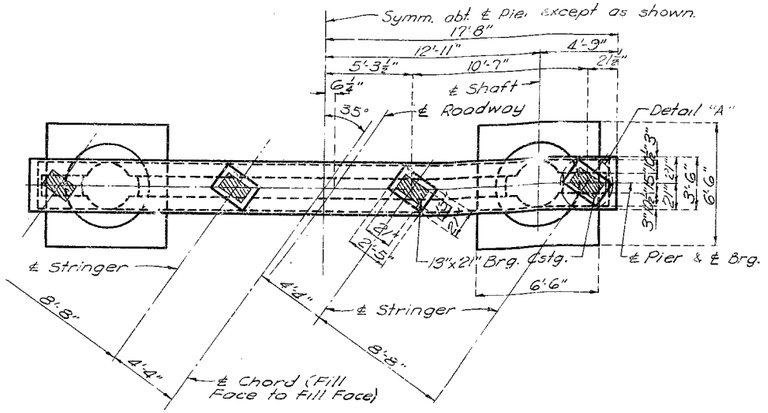


TYPICAL HALF SECTION THRU WEB & SHAFT

Note: Section thru Pier #2 shown. Section thru Pier #3 similar.



DETAIL "A"



PLAN

DETAILS OF PIER NO. 3

BRIDGE OVER HICKORY CREEK

STATE ROAD: NEOSHO BY-PASS

ABOUT 3.0 MILES S.E. OF NEOSHO

PROJECT NO. F-144 (4)(RT. 60TR) **STA.** 842+86

NEWTON **COUNTY**

FINISHED

80

Drawn Sept. 1958 by M.H.P.
Checked Jan. 1959 by C.S.A.

Note: This drawing is not to scale. Follow dimensions.

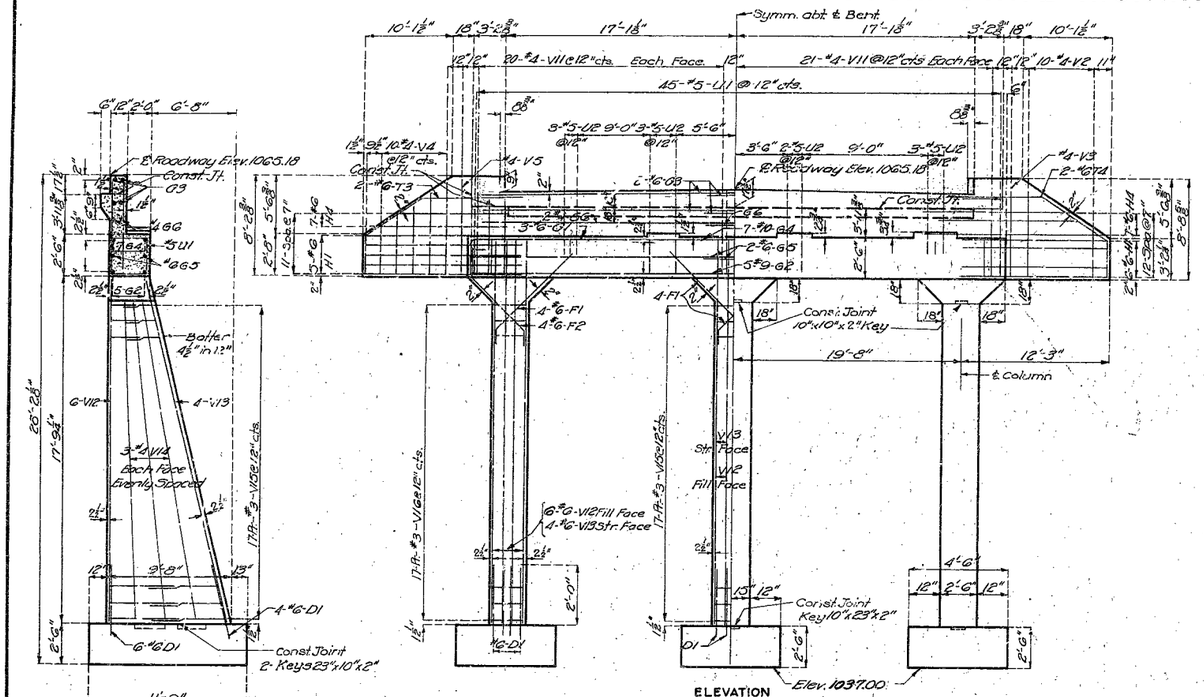
Sheet No. 3 of 51

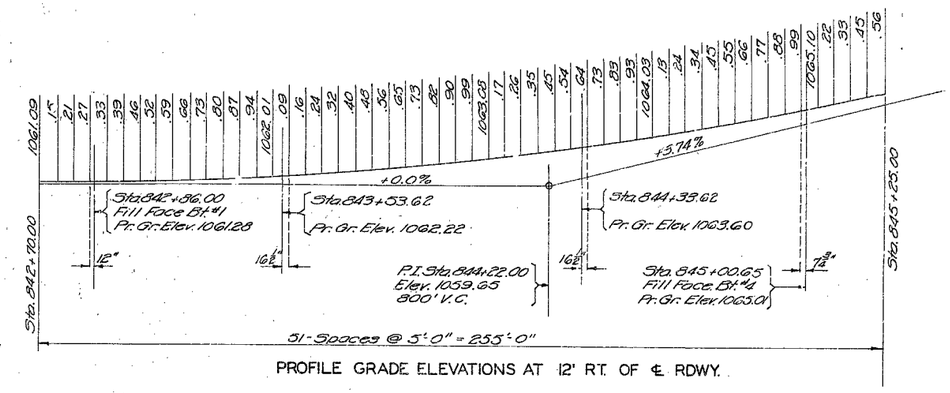
A-333

SEE FINAL PLANS FOR WORK LIMITS

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	.	19	46	

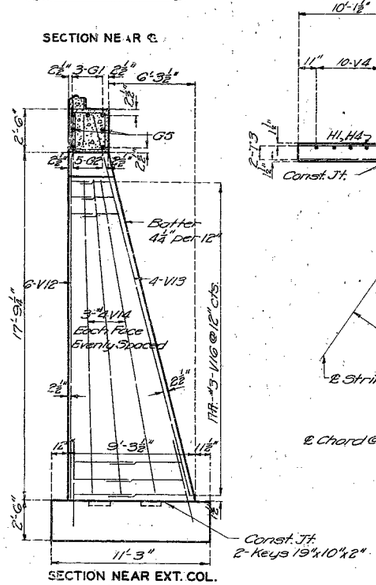


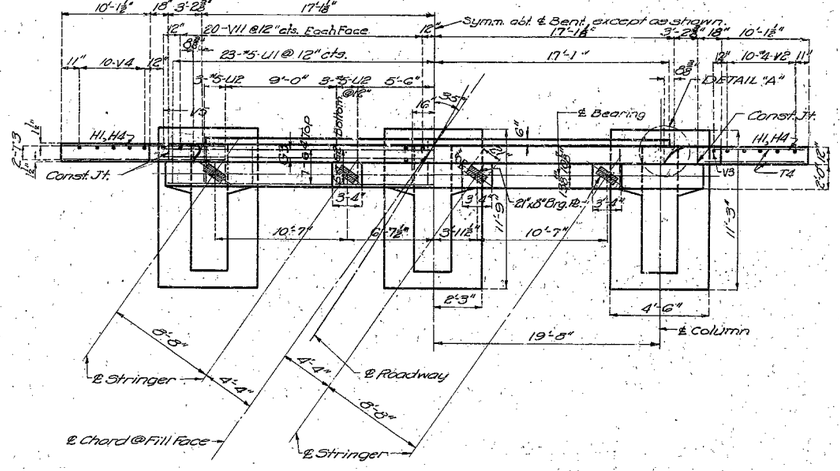


PROFILE GRADE ELEVATIONS AT 12' RT. OF ℄ RDWY.

Note: Fill not to be carried above bottom of beam and wing until superstructure Span (3-4) is in place.

Note: Top of backwall and expansion device to conform to crown of roadway.
Backwall above construction joint shall not be poured until the structural steel of the expansion device has been installed and the slab in adjacent span has been poured.





Note: See Sheet No. 7 of 8 for plan of DETAIL "A".

DETAILS OF END BENT NO. 4

BRIDGE OVER HICKORY CREEK

STATE ROAD: NEOSHO BY-PASS

ABOUT 3.0 MILES S.E. OF NEOSHO

PROJECT NO F-444(4)XRTE.60TR) STA. 842+86

NEWTON COUNTY

FINISHED

A-333

Assembled Sept. 1958 by BRG & JRS
Checked Jan. 1959 by C.S.A.

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 4 of 8.

SEE FINAL PLANS BROWN-LINES

3 Col. End. Square or Skewed } H15, H20 H20-S16

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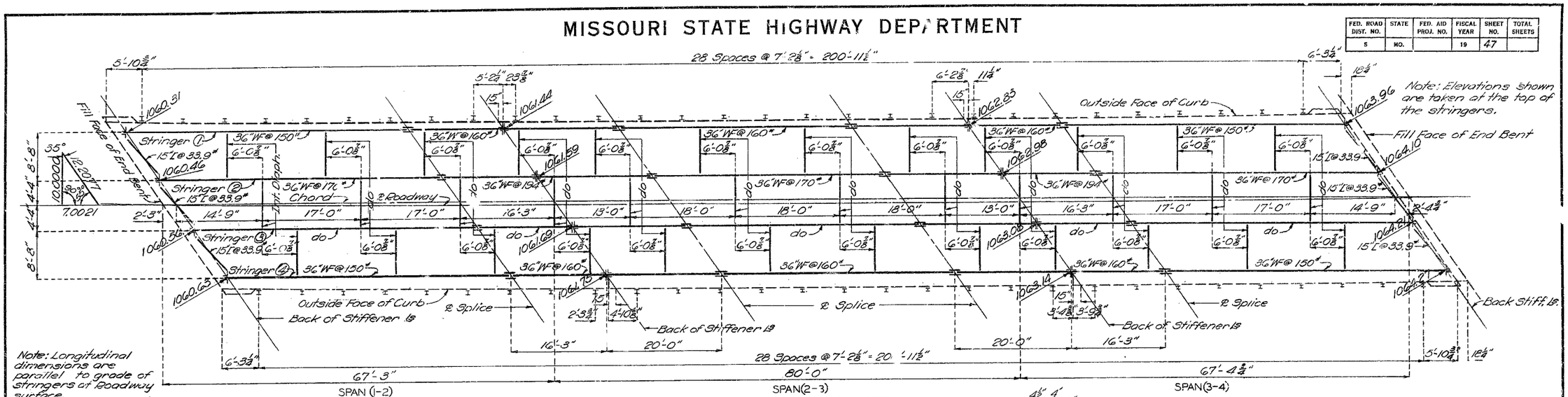
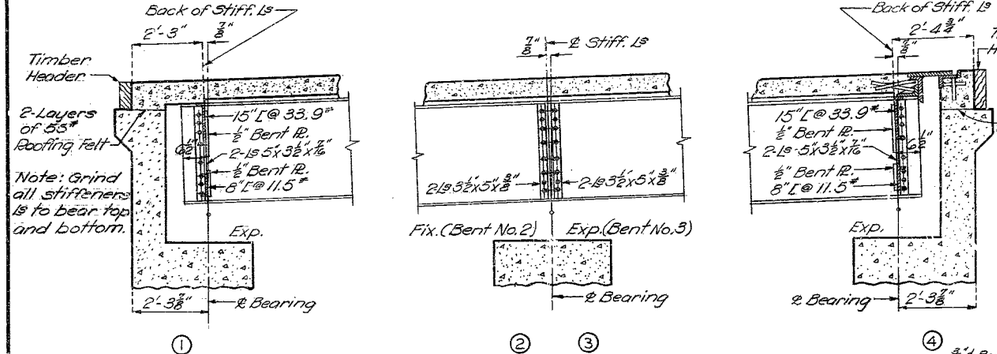
MISSOURI STATE HIGHWAY DEPARTMENT

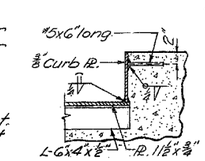
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	47	



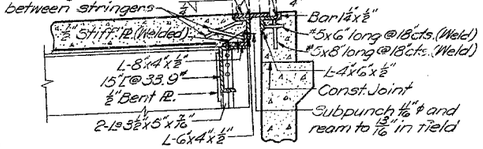
PLAN OF STRUCTURAL STEEL



PART LONGITUDINAL SECTION



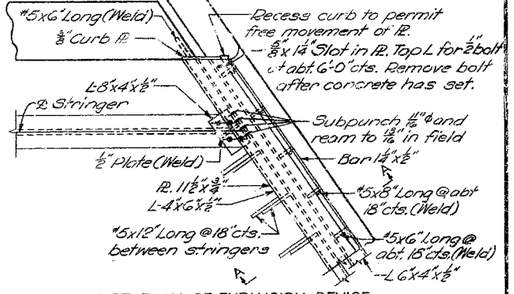
PART SECTION SHOWING CURB PLATE



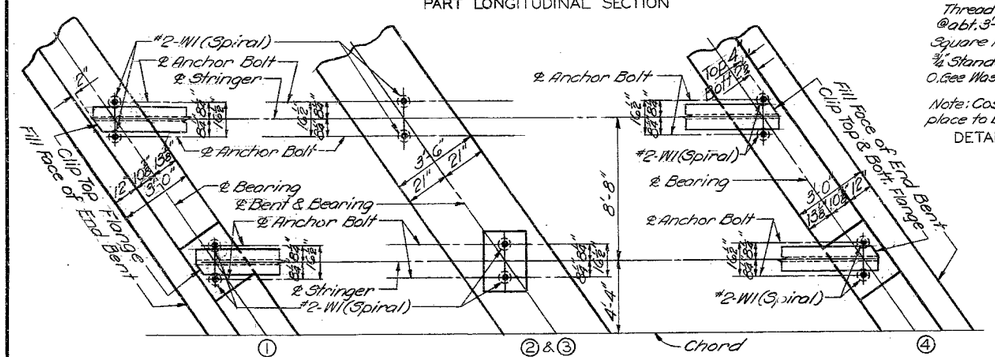
SECTION A-A

Note: Expansion Device shall be fabricated in one section and be bent to conform to crown of roadway.
#5 bars for expansion device shall be structural grade. Approved stud welded anchors may be used in lieu of #5 bars.

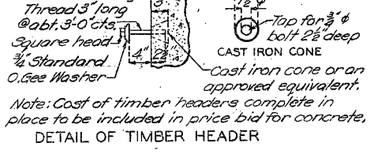
DETAILS OF EXPANSION DEVICE BENT NO. 4



PART PLAN OF EXPANSION DEVICE

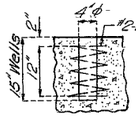


PART ANCHOR BOLT PLAN



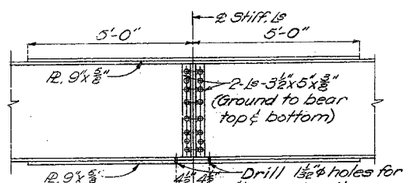
Note: Cost of timber headers complete in place to be included in price bid for concrete.

DETAIL OF TIMBER HEADER

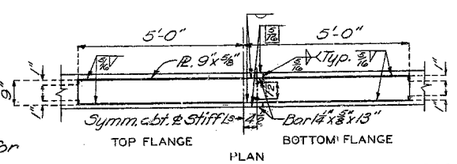


Note: Anchor bolts may be set in wells as shown or in holes drilled into concrete substructure. See Special Provisions for setting Anchor Bolts.

DETAIL OF SPIRAL AROUND ANCHOR BOLTS

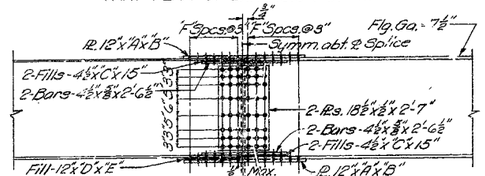


ELEVATION



PLAN

DETAILS OF WELDED PLATES AT BENTS NO. 2&3



Note: 1⅛" reamed holes for ⅞" ø rivets

DETAILS OF FIELD SPLICE

	"A"	"B"	"C"	"D"	"E"	"F"-Spcs.
36"WF@150# to 160#	⅞"	3'-6½"	14 Ga.	8 Ga.	21"	6
36"WF@170# to 194#	⅞"	3'-6½"	8 Ga.	⅜"	21"	6
36"WF@160# to 160#	⅝"	3'-6½"	-	-	-	6

BRIDGE OVER HICKORY CREEK

STATE ROAD: NEOSHO BY-PASS

ABOUT 30 MILES S.E. OF NEOSHO

PROJECT NO. F-444 (4)(RT. 60TR) **STA.** 842+86

NEWTON **COUNTY**

FINISHED

A-333

82

Drawn SEPT 1958 by H.M.
Checked Jan. 1959 by C.S.A.

Note: This drawing is not to scale. Follow dimensions.

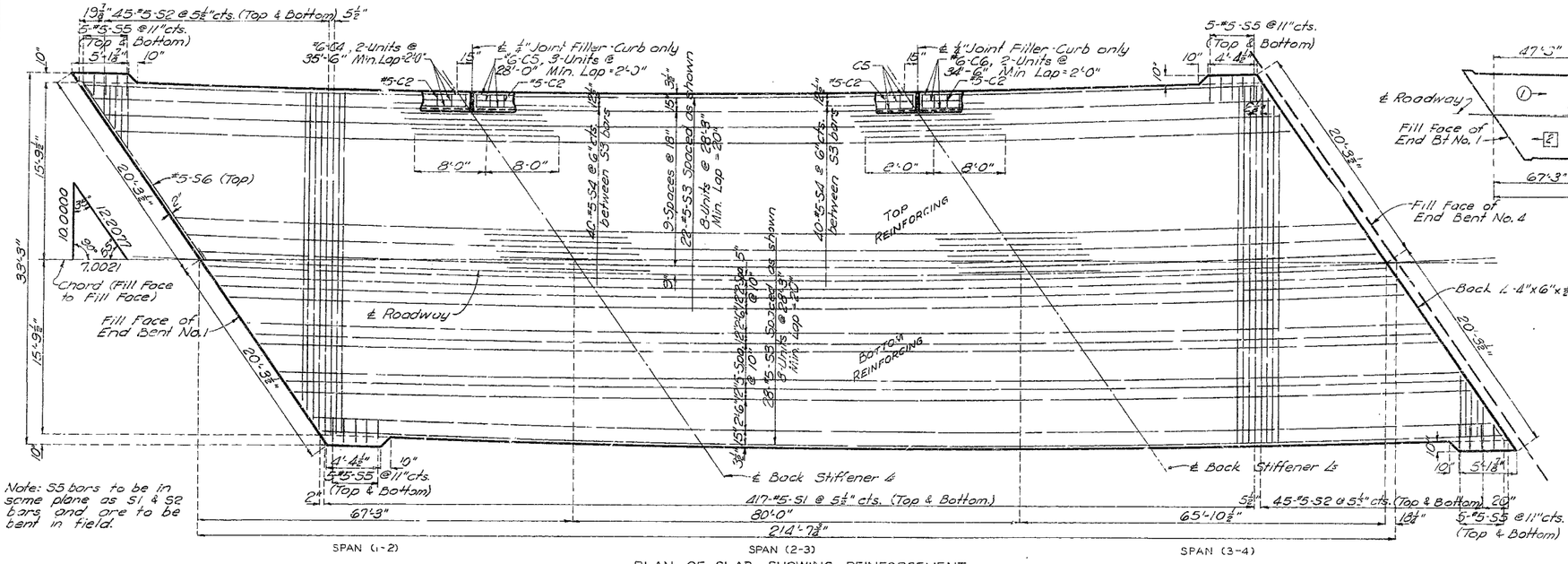
Sheet No. 5 of 8.

FINISHED

NO CONSTRUCTION CHANGES

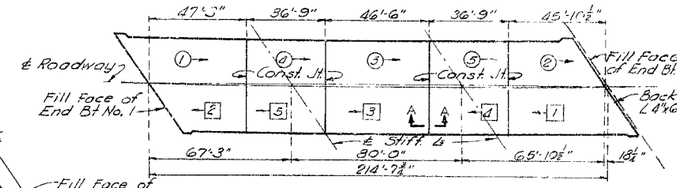
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	48	



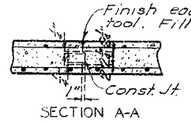
PLAN OF SLAB SHOWING REINFORCEMENT

Note: Horizontal dimensions shown above are parallel to grade at top of slab.

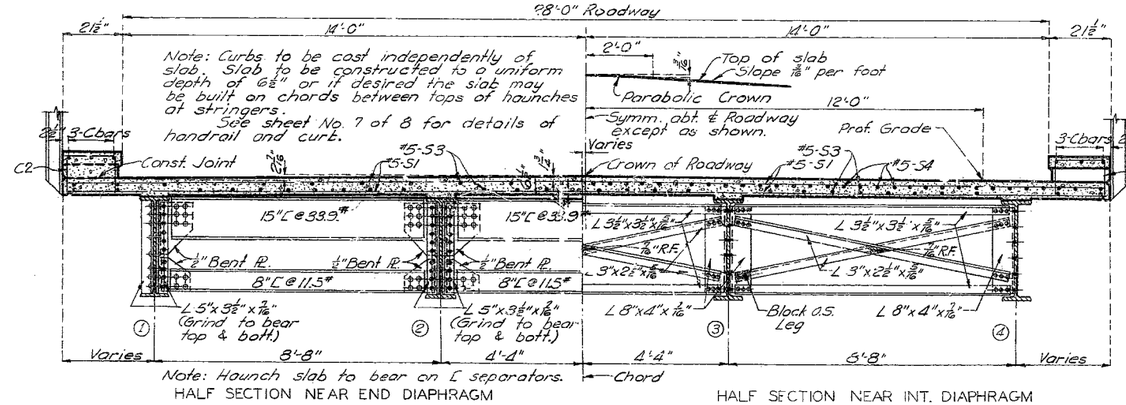


Note: The slab shall be poured in sections of the size shown above and in the sequence indicated by the numbers ①, ②, ③, ④ & ⑤ or as an alternate by the numbers [1], [2], [3], [4], & [5]. The separate pours shall progress in the direction indicated by the arrows. Longitudinal construction joint will not be permitted. See section 16-3E of Supplemental Specifications.

SLAB HAUNCHING DIAGRAM

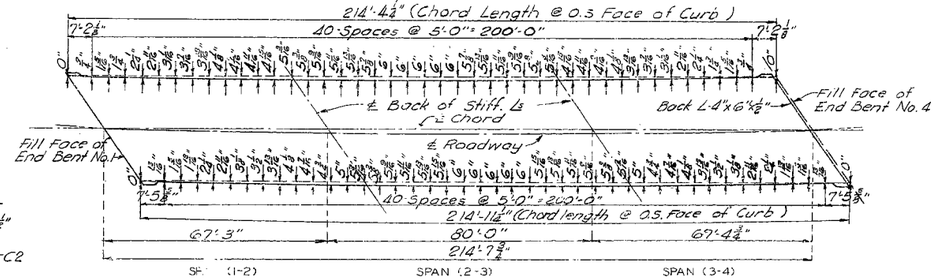


SECTION A-A

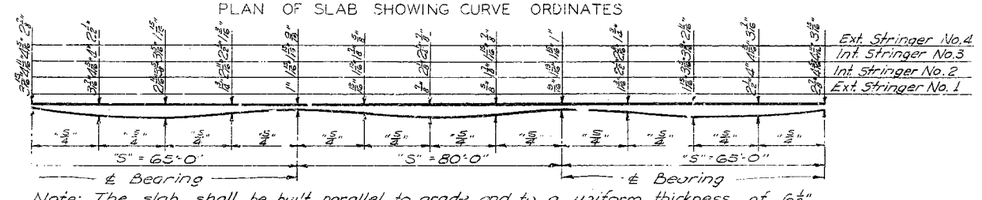


HALF SECTION NEAR END DIAPHRAGM

HALF SECTION NEAR INT. DIAPHRAGM



PLAN OF SLAB SHOWING CURVE ORDINATES



Note: The slab shall be built parallel to grade and to a uniform thickness of 6 1/2". Dead load deflection, vertical curve, difference in depth of stringers and crown shall be taken care of by haunching to stringers by the amounts shown above. This additional concrete is included in "Estimated Quantities".

SLAB HAUNCHING DIAGRAM

BRIDGE OVER HICKORY CREEK

STATE ROAD: NEOSHO BY-PASS

ABOUT 3.0 MILES S.E. OF NEOSHO

PROJECT NO. F-444(4)(RT. 60 TR) **STA.** 842+86

NEWTON **COUNTY**

A-333

Drawn Sept. 1958 by M.H.P.

Checked Jan. 1959 by C.S.A.

Note: This drawing is not to scale. Follow dimensions.

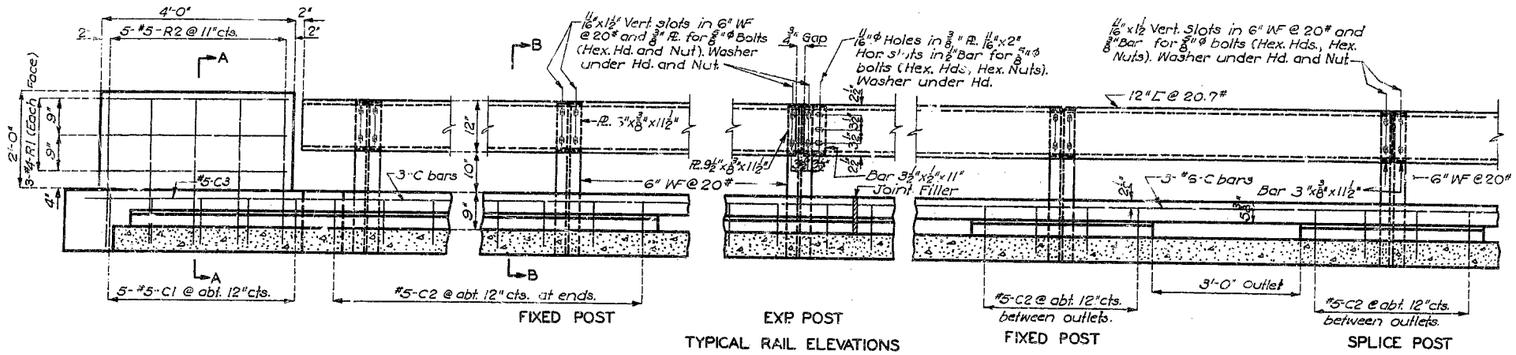
Sheet No. 6 of 8.

NO CONSTRUCTION CHANGES

43

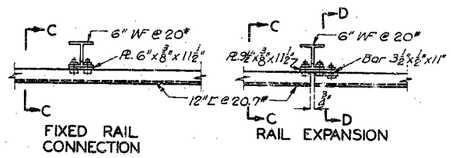
MISSOURI STATE HIGHWAY DEPARTMENT

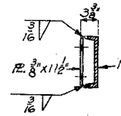
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	19	

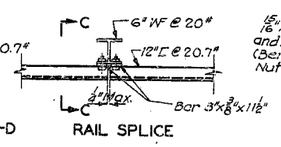


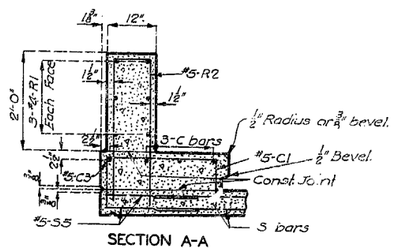
TYPICAL RAIL ELEVATIONS

Note: Outlets to be centered between railpost. For location of outlets see sheet No. 1 of 8.

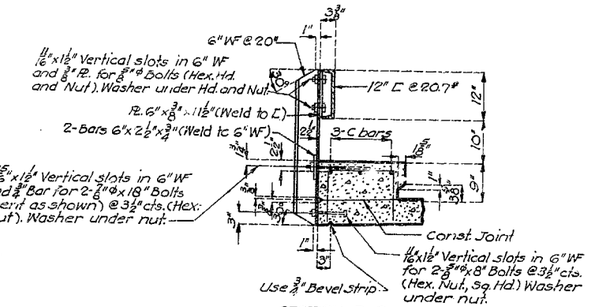






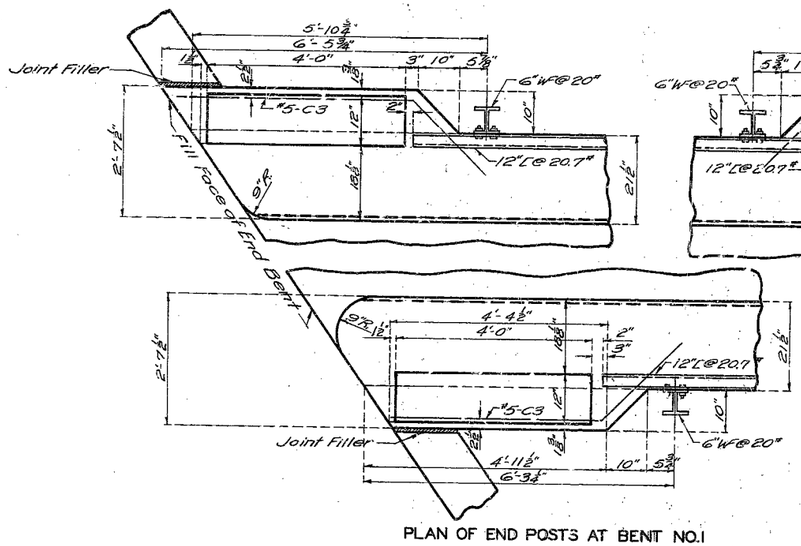


SECTION A-A

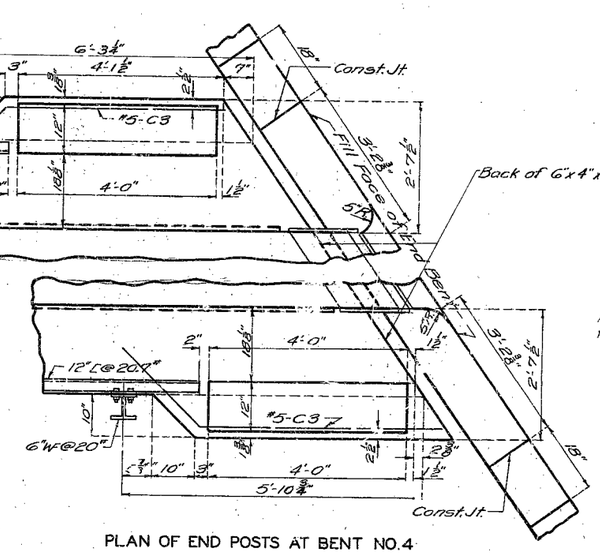


SECTION B-B

Note: Channel rail to be adjusted for horizontal alignment by use of full size metal shims placed between 6" WF and connection Pl. Shims of ⅛ & ¼" thickness to be furnished with structural steel. Cost of shims to be included in price bid for other items.

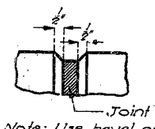


PLAN OF END POSTS AT BENT NO.1



PLAN OF END POSTS AT BENT NO.4

Note: See Sheet No. 6 of 8 for horizontal alignment of slab and curbs.



Note: Use bevel as shown for exposed faces of all filled joints except at top surface of roadway slab.

DETAILS OF BEVEL FOR FILLED JOINTS

BRIDGE OVER HICKORY CREEK

STATE ROAD NEOSHO BY-PASS
ABOUT 3.0 MILES S.E. OF NEOSHO
PROJECT NO F-444(4) (RTE. 60 TR) STA. 842+86

NEWTON COUNTY

FINISHED

GENERAL NOTES:

Top of curbs and end posts to be built parallel to grade. Vertical faces of end posts to be vertical. All exposed edges of end post to be beveled ½". 6" WF posts to be set normal to grade.

12"L rails shall be fabricated to conform to horizontal and vertical alignment of curb.

Note: This drawing is not to scale. Follow dimensions.

Drawn Sept. 1958 By H.M. & J.C.F.
Checked Dec. 1958 By C.S.A.

Sheet No. 7 of 8.

A-333

FINISHED

NO CONSTRUCTION CHANGES

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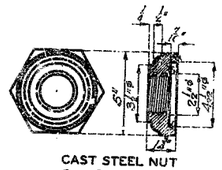
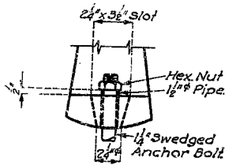
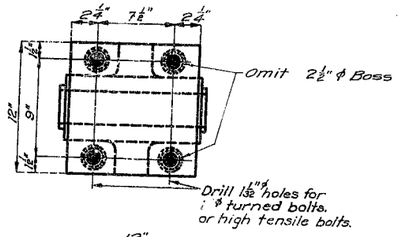
MISSOURI STATE HIGHWAY DEPARTMENT

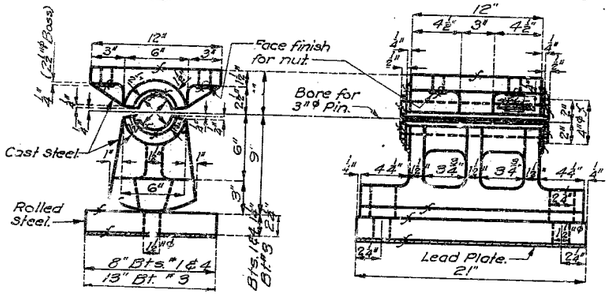
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO		19		



CAST STEEL NUT
3 - Required
16-3"ϕ Rolled steel pins required.

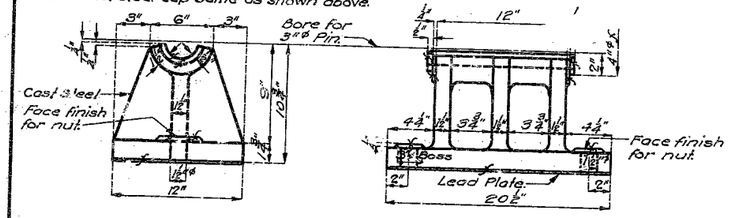






EXPANSION ROCKER
3 Required Bents No. 1 & 4
4 Required Bent No. 3

Note: Cast steel cap same as shown above.



FIXED PEDESTAL
4 Required Bf. No. 2

DETAILS OF BEARING CASTINGS

GENERAL NOTES:

Finish all surfaces marked "f."
All fillets shall have ¾" radius.
Material for castings shall be Cast steel except as noted.
All pins, bolts, nuts, pipe sleeves, and rolled steel shall be paid for as structural steel.
Anchor bolts for castings shall be 1½"ϕ swedged bolts with hex. nuts and shall extend 12" into concrete.
Lead plates under bearings shall be approximately ½" in thickness and weigh 8½ sq. ft. Cost of lead plates shall be included in price bid for other items.

Assembled Sept. 1958 by M.H.P. & J.C.F.
Checked Jan. 1959 by C.S.A.

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 8 of 8.

Revised 6-20-58

NO CONSTRUCTION CHANGES

FINISHED

FINISHED

FINISHED

BRIDGE OVER HICKORY CREEK

STATE ROAD: NEOSHO BY-PASS
ABOUT 3.0 MILES S.E. OF NEOSHO
PROJECT NO. F-444(4). RTE. 60 TR STA. 842+86

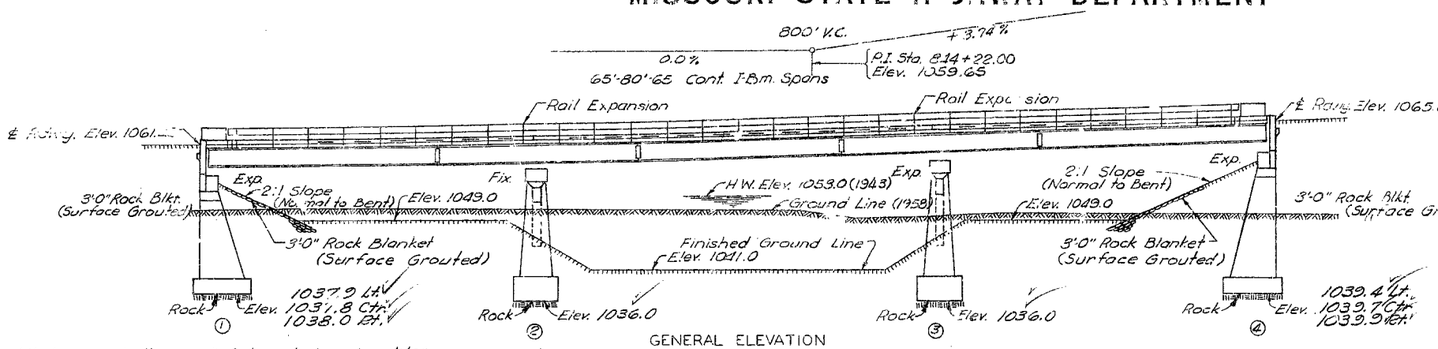
NEWTON COUNTY

A-333

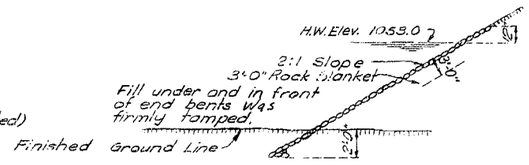
45

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	43	



GENERAL ELEVATION

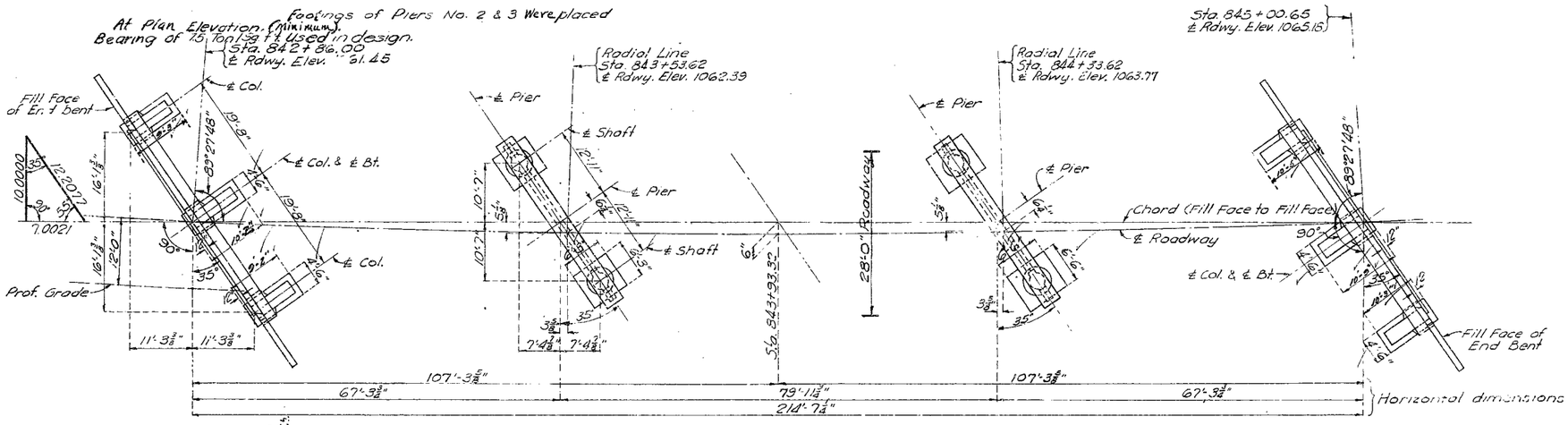


Note: 3'0" Rock Blanket Was placed on fills at ends of bridge as shown in sketch.

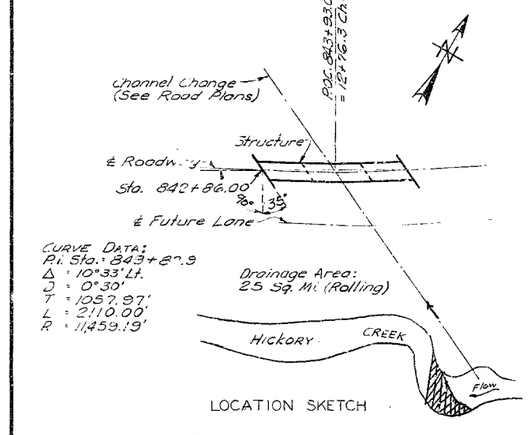
ROCK BLANKET SKETCH

Note: All loose, shelly or disintegrated rock Was removed and the footings placed on hard, solid, undisturbed rock

Footings of Piers No. 2 & 3 Were placed At Plan Elevation. (minimum). Bearing of 15 Ton/Sq. Ft. Used in design.



PLAN



QUANTITIES

Item		Substr.	Superstr.	Total
Class 1 Excavation for Structures	Cu. Yds.	335.5		335.5
Class 2 Excavation for Structures	Cu. Yds.	150.0		150.0
Class "B" Concrete	Cu. Yds.	213.1		213.1
Class "B-1" Concrete	Cu. Yds.		1634	1634
Fabricated Structural Steel	Lbs.		185,800	185,800
Steel Casing	Lbs.		5210	5210
Reinforcing Steel	Lbs.	16,880	46,910	63,190
Test Holes	Lin. Ft.	52		52

Note: Excavation for bridge made above Elev. 1042.0 Was paid for as Class 1 Excavation for Structures. Excavation for bridge made below Elev. 1042.0 Was paid for as Class 2 Excavation for Structures. Final pay weight for Fabricated Structural Steel Was based on using field rivets except for bolted connections specified for handrail.

GENERAL NOTES:

Design Specifications: A.A.S.H.O.-1957
Loading: H20-44; Future wearing surface, 15 #/ft.
Structural Steel Stress: 18,000 #/in²
Reinforcing Steel Stress: 20,000 #/in²
Concrete "Class "B" Stress: 1200 #/in²

Concrete for superstructure Was Class B-1" air-entrained.

Concrete for substructure Was Class "B" air-entrained.

Bolts ⅞" ϕ, holes 1⅛" ϕ except as noted.
Field connections Were bolted with High Tensile steel bolts and carburized washers.

Qualified Welding operators Were required.

Paint: Shop, none; Field, contact surfaces of bolted field connections, except where high tensile bolts Were used, one coat of red lead and surfaces inaccessible after erection three coats of red lead. All other exposed surfaces first coat red lead, second coat brown, third coat aluminum. Payment for cleaning and all painting Was made under unit price bid for painting.

Where joint filler Was specified on the plans it conform with the requirements for Gray Rubber Compound Joints as given in Section 59-22E of the Standard Specifications.

B.M. Elev. 1061.86 X Top Left Wing Bt "1"

BRIDGE OVER HICKORY CREEK FINISHED

STATE ROAD: NEOSHO BY-PASS
ABOUT 3.0 MILES S.E. OF NEOSHO
PROJECT NO. F-444(4)(RT.60) **STA.** 842+86 FINISHED

NEWTON **COUNTY**

SUBMITTED BY J. A. Williams BRIDGE ENGINEER DATE 1-29-1959
APPROVED BY R. M. Tuttle CHIEF ENGINEER DATE 1-29-1959

FINISHED 1959

Drawn Sept 1958 by M.H.P
Checked Jan. 1959 by C.S.A.

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1A of 4

SHEET NO. A-333

FINAL PLANS

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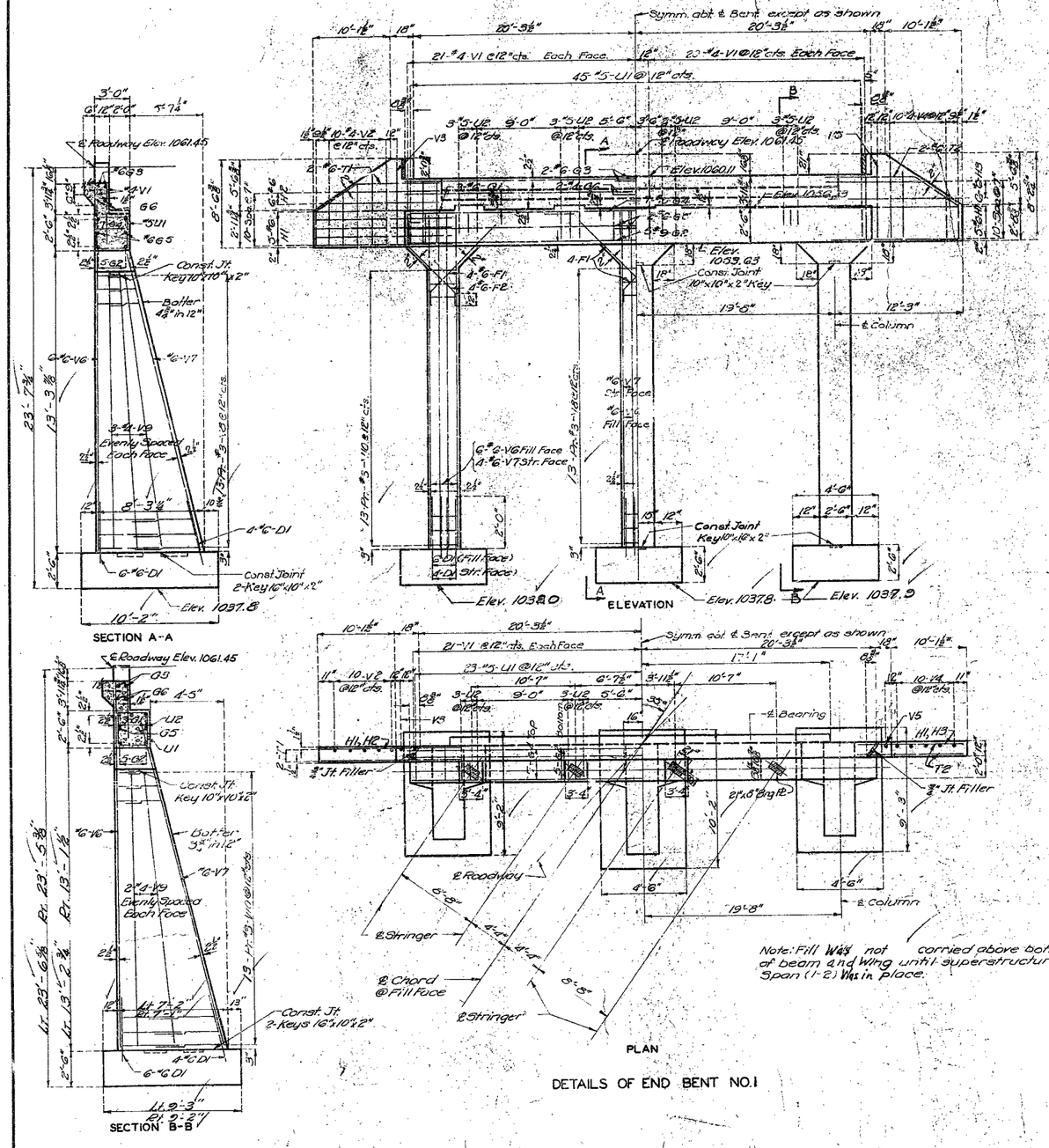
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET	TOTAL SHEETS
5	MO.		19		



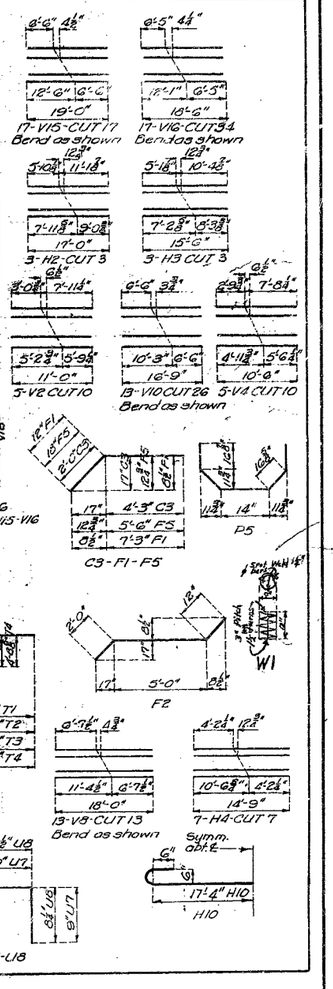
DETAILS OF END BENT NO.1

Note: Fill Wall not carried above bottom of beam and Wing until superstructure Span (1-2) Was in place.

COMPLETE BILL OF REINFORCING STEEL

No.	Size	Length	Mark	Location
End Bent No.1				
30	#6	4'-6"	D1	Footing
10	#6	8'-3"	F1	Hch.
8	#4	8'-0"	F2	"
6	#6	17'-3"	G1	Beam
5	#9	44'-6"	G2	"
4	#6	31'-9"	G3	Bck Wall
7	#10	12'-0"	G4	Beam
4	#6	23'-3"	G5	"
4	#4	21'-0"	G6	Bck Wall
10	#6	11'-0"	H1	Wing
3	#6	17'-0"	H2	"
3	#6	15'-2"	H3	"
2	#6	17'-0"	T1	Wing
2	#6	16'-9"	T2	"
45	#5	7'-10"	U1	Beam
11	#5	3'-8"	U2	"
82	#4	6'-0"	V1	Bck Wall
5	#6	11'-0"	V2	Wing
1	#4	8'-3"	V3	"
5	#4	10'-6"	V4	"
1	#4	8'-0"	V5	"
18	#6	16'-0"	V6	Col.
12	#6	17'-0"	V7	"
13	#8	18'-0"	V9	"
14	#4	14'-0"	V9	"
26	#9	16'-9"	V10	"
8	#2	19'-9"	W1	A.B.Walls
Int. Pier No.2				
16	#8	5'-6"	D5	Footing
4	#6	7'-0"	F5	Hch.
6	#7	10'-5"	H5	Cap.
4	#6	34'-0"	H6	"
2	#7	35'-0"	H7	"
3	#8	37'-6"	H8	Web.
4	#7	37'-3"	H10	Cap.
10	#8	7'-9"	P1	Shaft
10	#8	19'-0"	P6	"
22	#5	10'-0"	P4	Web.
34	#6	8'-9"	P5	Cap.
12	#6	21'-0"	P7	Web.
30	#6	8'-6"	U5	Cap.
3	#4	4'-3"	U6	"
2	#4	3'-6"	U7	"
5	#4	8'-9"	U8	"
8	#2	19'-9"	W1	A.B.Walls
End Bent No.4				
30	#6	4'-6"	D1	Footing
18	#6	8'-3"	F1	Hch.
8	#6	18'-0"	F2	"
6	#6	17'-3"	G1	Beam
5	#9	44'-6"	G2	"
6	#6	21'-9"	G3	Bck Wall
7	#10	16'-0"	G4	Beam
4	#4	21'-6"	G6	Bck Wall
11	#6	11'-6"	H1	Wing
7	#6	14'-9"	H4	"
4	#6	25'-3"	G5	Beam
2	#6	17'-3"	T3	Wing
2	#6	17'-6"	T4	"
45	#5	11'-0"	U1	Beam
11	#5	3'-9"	U2	"
5	#4	11'-0"	V2	Wing
5	#4	10'-6"	V4	"
1	#4	8'-0"	V5	"
82	#4	7'-3"	V11	Bck Wall
18	#6	20'-0"	V12	Col.
18	#4	17'-9"	V14	"
17	#9	19'-0"	V15	"
30	#9	16'-6"	V16	"
8	#2	19'-9"	W1	A.B.Walls
Superstructure				
20	#5	4'-3"	C1	Curb
312	#5	8'-3"	C2	"
4	#5	6'-8"	C3	"
12	#6	35'-6"	C4	"
18	#6	28'-0"	C5	"
12	#6	34'-6"	C6	"
834	#5	31'-9"	S1	Slab
90	#5	32'-9"	S2	"
400	#5	28'-9"	S3	"
80	#5	16'-0"	S4	"
40	#5	2'-6"	S5	"
2	#5	21'-0"	S6	"
24	#4	3'-9"	R1	End Post
20	#5	6'-0"	R2	"

Bending Sketches & Cutting Diagram



BRIDGE OVER HICKORY CREEK

STATE ROAD: NEOSHO BY-PASS

ABOUT 3.0 MILES S.E. OF NEOS

PROJECT NO. F-444(4)(RTE.60) STA. 842+86

NEWTON COUNTY

FINISHED

A-333

Assembled Sept. 1958 by BRG & JRS
Checked Jan. 1959 by C.L.H.

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 2A of 4

FINAL PLANS

3 Col. End Square or Skewed

HIS. H-20 H20-S16

FINISHED

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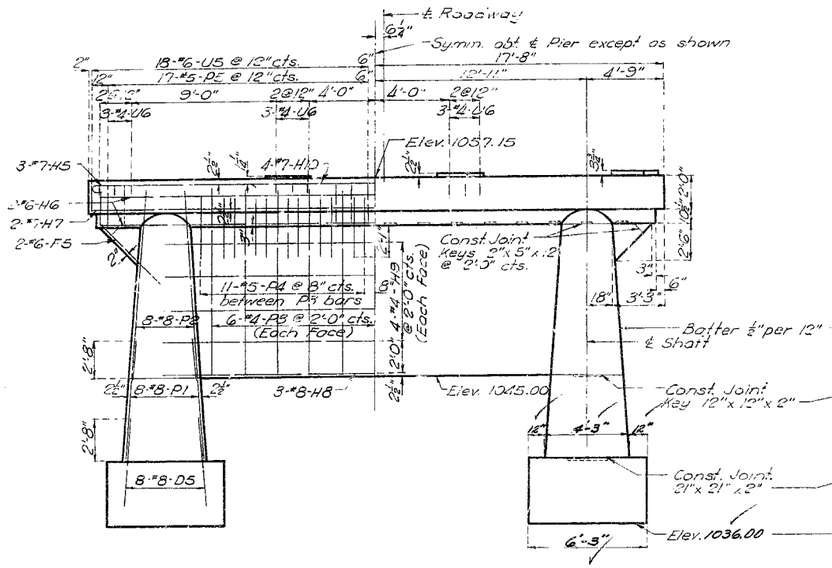
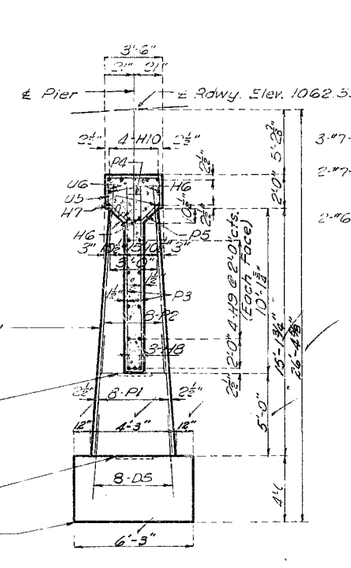
MISSOURI STATE HIGHWAY DEPARTMENT

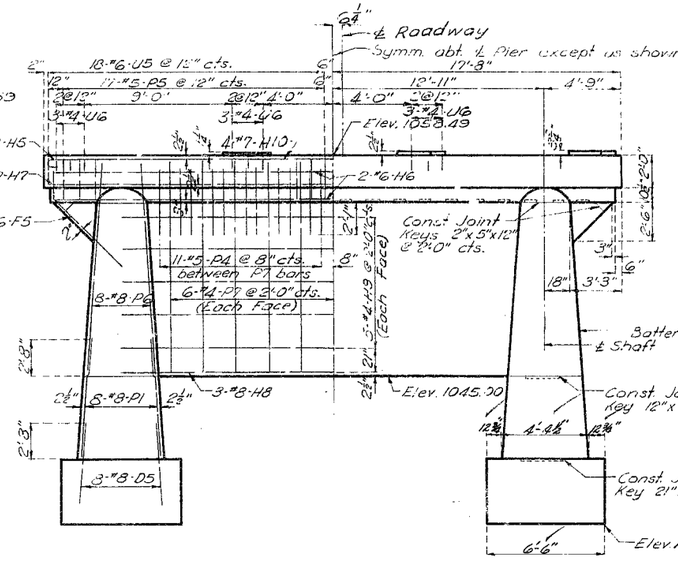
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO	TOTAL SHEETS
5	MO.		19	45	



ELEVATION



SECTION AT ℄



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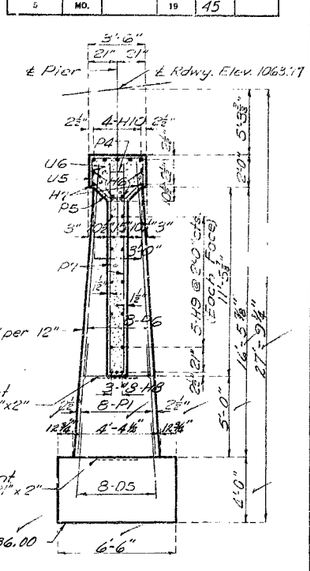
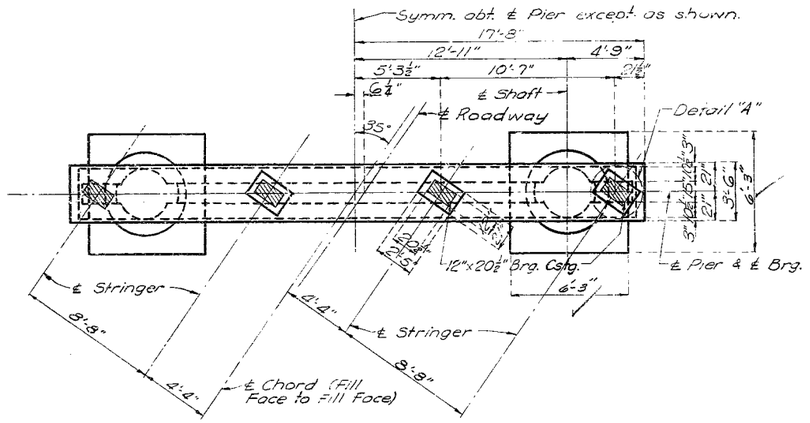
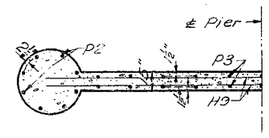


SECTION AT ℄



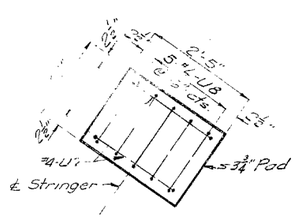
PLAN

DETAILS OF PIER NO. 2

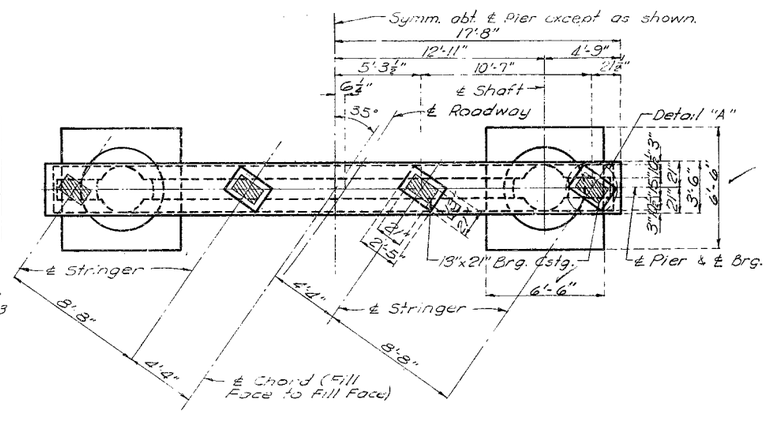


TYPICAL HALF SECTION THRU WEB & SHAFT

Note: Section thru Pier #2 shown. Section thru Pier #3 similar.



DETAIL "A"



PLAN

DETAILS OF PIER NO. 3

FINISHED

BRIDGE OVER HICKORY CREEK

STATE ROAD: NEOSHO BY-PASS

ABOUT 3.0 MILES [illegible] NEOSHO

PROJECT NO. F-444 (10) [illegible] 60) **STA.** 842+86

NEWTON **COUNTY**

FINISHED

A-333

Drawn Sept. 1958 by M.H.P.
Checked Jan. 1959 by C.S.A.

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 34 of 4

FINAL PLANS

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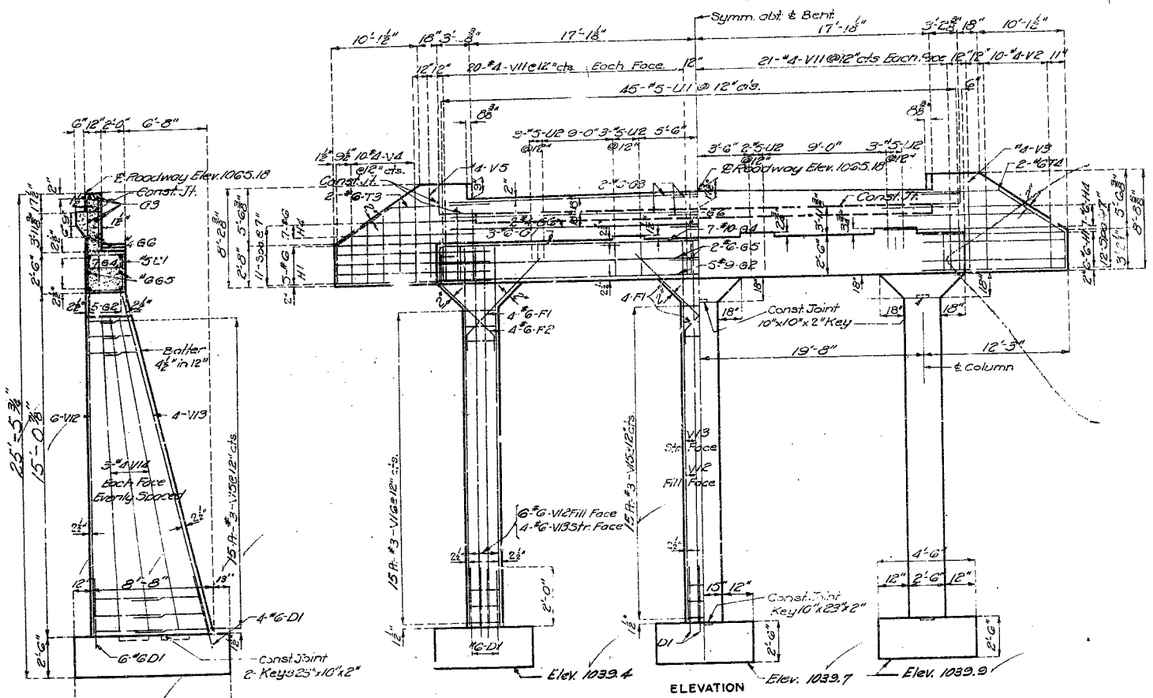
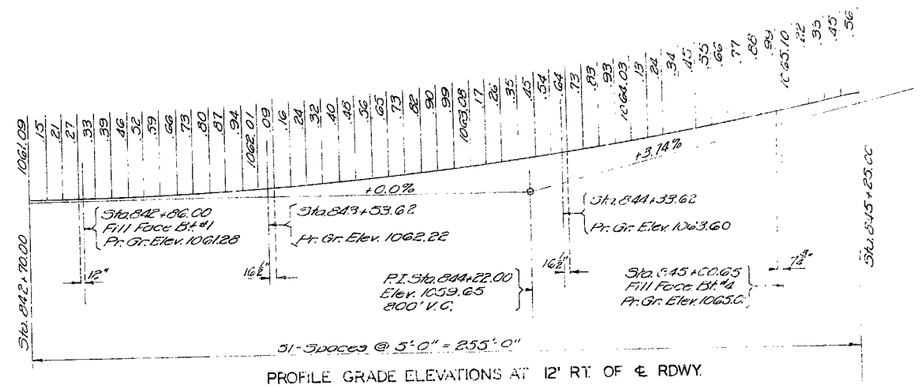
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO		19	4A	



DETAILS OF END BENT NO. 4



PROFILE GRADE ELEVATIONS AT 12' RT. OF ℄ RDWY.

Note: Fill Was Not carried above bottom of beam and wing until superstructure Span (3-4. Was) place.

Note: Top of backwall and expansion device conformed to crown of roadway.
Backwall above construction joint Was not poured until the structural steel of the expansion device had been installed and the slab in adjacent span had been poured.

Note: See Sheet No. 7 of 8 for plan of DETAIL "A".

BRIDGE OVER HICKORY CREEK

STATE ROAD: NEOSHO BY-PASS

ABOUT 3.0 MILES S.E. OF NEOSHO

PROJECT NO. F-444(4)(RTE. 60) STA. 842+86

NEWTON COUNTY

A-333

Assembled Sept. 1958 by BRU & JKS
Checked

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 4A of 4

FINAL PLANS

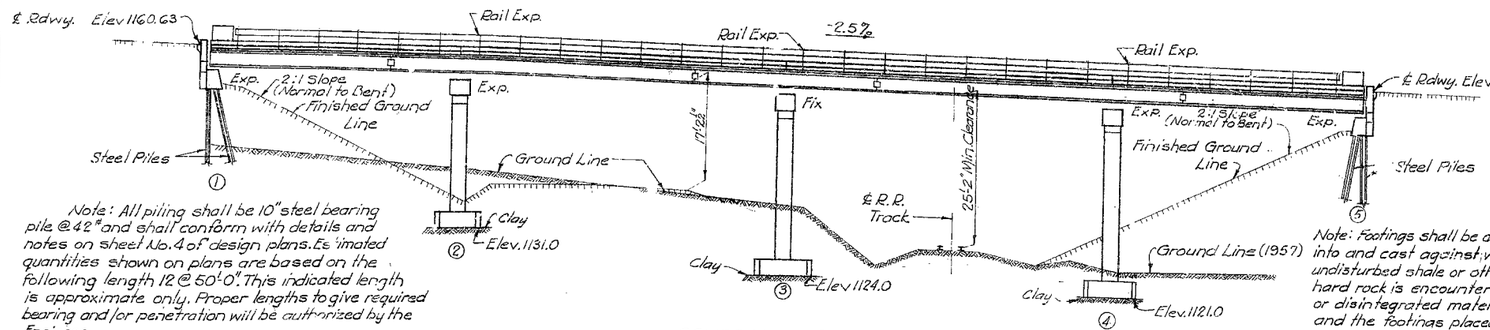
3 Col. End. Square or Skewed } H15, H20 H20-S16

68

MISSOURI STATE HIGHWAY DEPARTMENT

45'-59'-59'-45' Cont'l. I-Bm. Spans.

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	25	

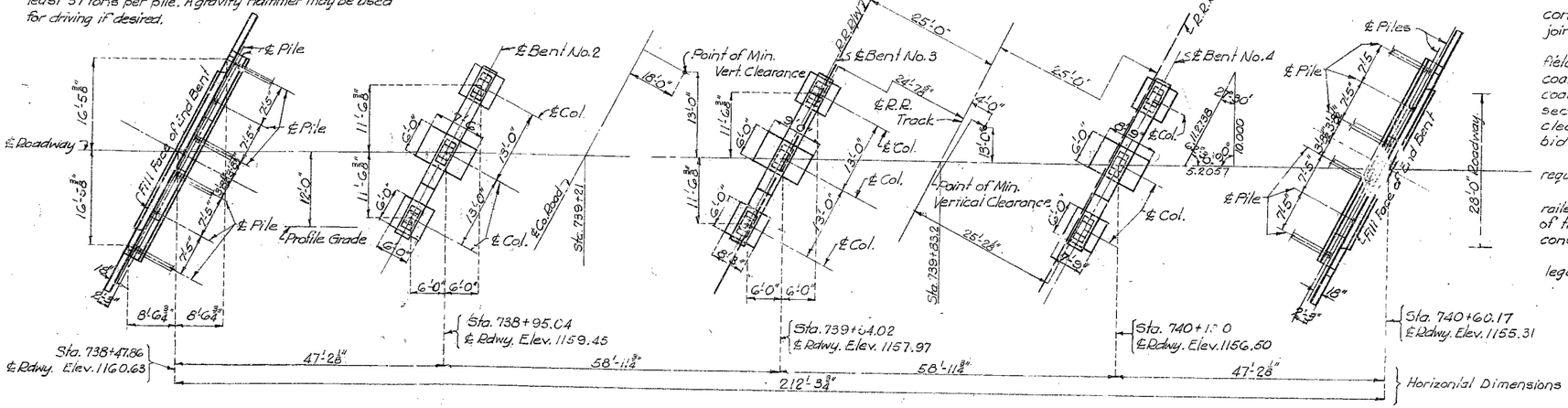


GENERAL ELEVATION

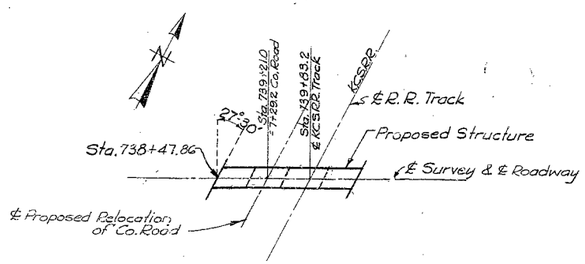
Note: All piling shall be 10" steel bearing pile @ 42" and shall conform with details and notes on sheet No. 4 of design plans. Estimated quantities shown on plans are based on the following length 12 @ 60'-0". This indicated length is approximate only. Proper lengths to give required bearing and/or penetration will be authorized by the Engineer.

All piles shall be driven to or into solid rock, boulders, shale or cemented gravel, or to not less than full length authorized and to sustain a load of at least 37 tons per pile. A gravity hammer may be used for driving if desired.

Note: Footings shall be carried at least 18" into and cast against vertical faces of firm undisturbed shale or other soft rock. If solid hard rock is encountered, all loose, shelly, or disintegrated material shall be removed and the footings placed on hard, solid undisturbed rock. (Bearing of 2.5 ton/sq.ft. used in design)



PLAN



LOCATION SKETCH

GENERAL NOTES:

Design Specifications A. A. S. H. O. (1957)
Loading H20-44 (Future Wearing Surface 15#/ft²)
Structural Steel Stress 18,000 #/in².
Reinforcing Steel Stress 20,000 #/in².
Concrete Class "B" Stress 1,200 #/in².
Rivets ¾", holes ⅞" except as noted.
Qualification of welding operators will be required.
Concrete for superstructure shall be Class "B-1" air-entrained.

Concrete for substructure shall be Class "B" air-entrained. If the Contractor desires he may use Class "B-1" in lieu of Class "B" for concrete in substructure with payment on the basis of Class "B" concrete.

Field connections shall be riveted except as noted in handrail details, or if the Contractor desires to eliminate all field riveting on this project, he may use High Tensile steel bolts with case-hardened washers in place of rivets.

Where joint filler is specified on the plans it shall conform with the requirements for Gray Rubber Compound joints as given in Section 59-22 B of the Standard Specifications.

Paint: Shop, none; Field, contact surfaces of bolted field connections, except where high tensile bolts are used, one coat of red lead and surfaces inaccessible after erection three coats of red lead. All other exposed surfaces first coat red lead, second coat brown, third coat aluminum. Payment for cleaning and all painting will be made under unit price bid for painting.

See Section 22-9C of the Std. Specifications for required painting of steel piles.

A minimum vertical clearance of 22'-0" from top of rails and a minimum lateral clearance of 10'-0" from centerline of tracks shall be maintained over railroad tracks during construction.

Permits must be obtained for all truck loads over legal length.

ESTIMATED QUANTITIES

	Item		Superstr.	Substr.	Total
	Class 1 Excavation for Structure	Cu.Yds.		270	270
	Class "B" Concrete	Cu.Yds.		162.0	162.0
	Class "B1" Concrete	Cu.Yds.	158.4		158.4
	Reinforcing Steel	Lbs.	47200	17950	65150
*	Fabricated Structural Steel	Lbs.	146100		146100
	Steel Castings	Lbs.	3980		3980
	Steel Pile - In Place	Lbs.		564	564
	Steel Pile - Cut-Offs	Lbs.		36	36

Note: All excavation for bridge will be paid for as Class 1 Excavation for Structures.

* Final pay weight of Fabricated Structural Steel will be based on using field rivets except for bolted connections specified for hundredths.

FINISHED

BM #77A Elev. 1146.08 "x" N.W. cor. conc. base of signal crossing "Burr Crossing" on north side of road.

BRIDGE OVER KANSAS CITY SOUTHERN R. R.

STATE ROAD: NEOSHO BY-PASS
ABOUT 2.2 MILES S. OF NEOSHO
PROJECT NO. F-FG-444(3)RT.60TR **STA.** 738+47.86

NEWTON FINISHED **COUNTY**

SUBMITTED BY J. A. Williams BRIDGE ENGINEER DATE 1-29-1959
APPROVED BY Roy M. Whitten CHIEF ENGINEER DATE 1-29-1959

FINISHED

STRUCTURE NO. A-334

FINISHED FINISHED

90

Drawn Aug. 1958 by B.R.G.
Checked Dec. 1958 by C.S.A.

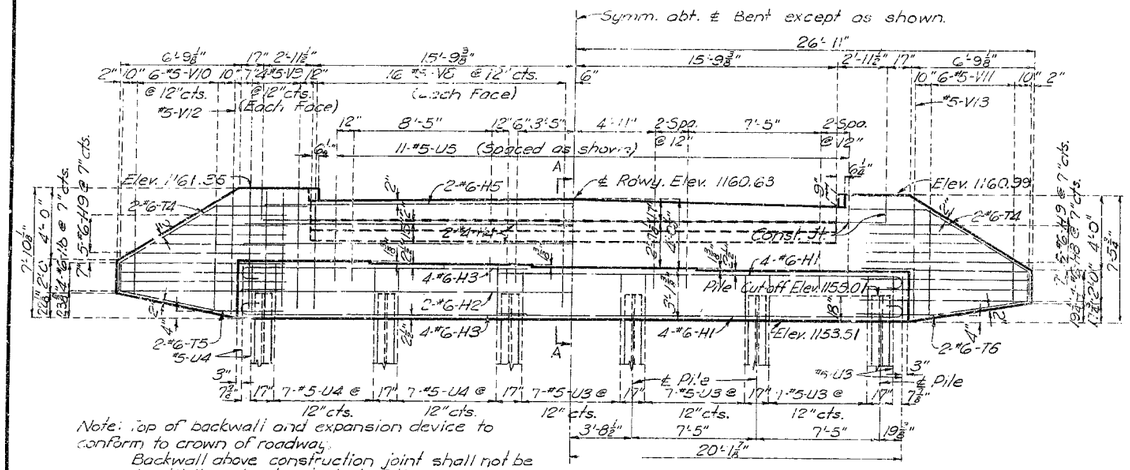
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1 of 8.

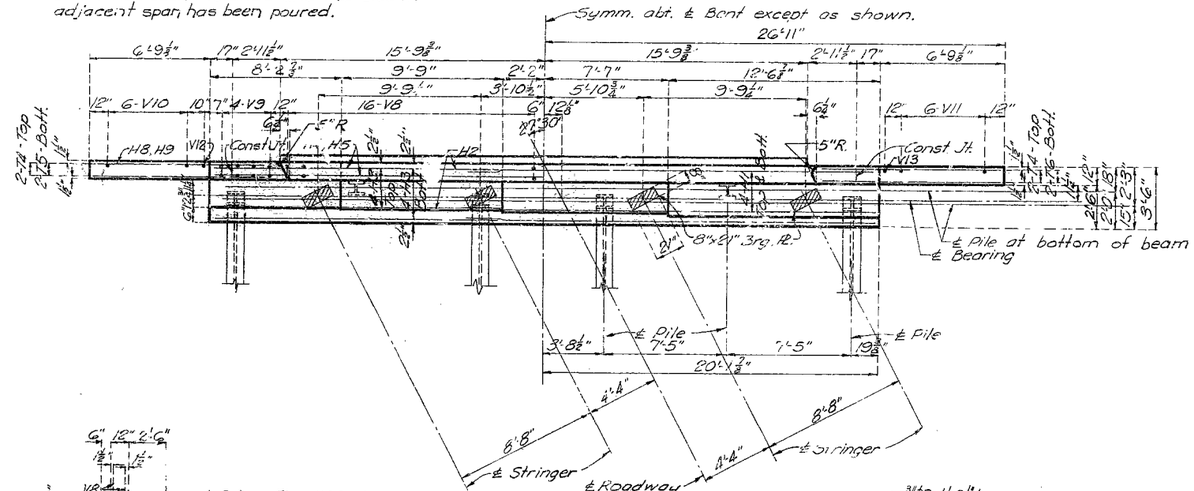
SEE FINAL PLANS BROWN-LINES

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	MO.		19	36	

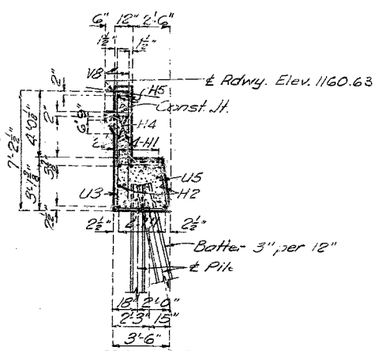


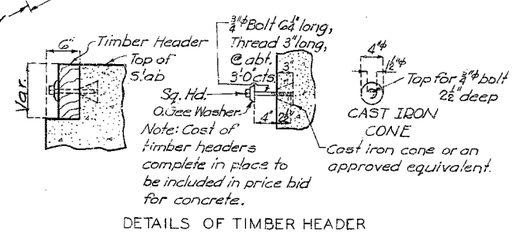
ELEVATION



PLAN

DETAILS OF END BENT NO. 1



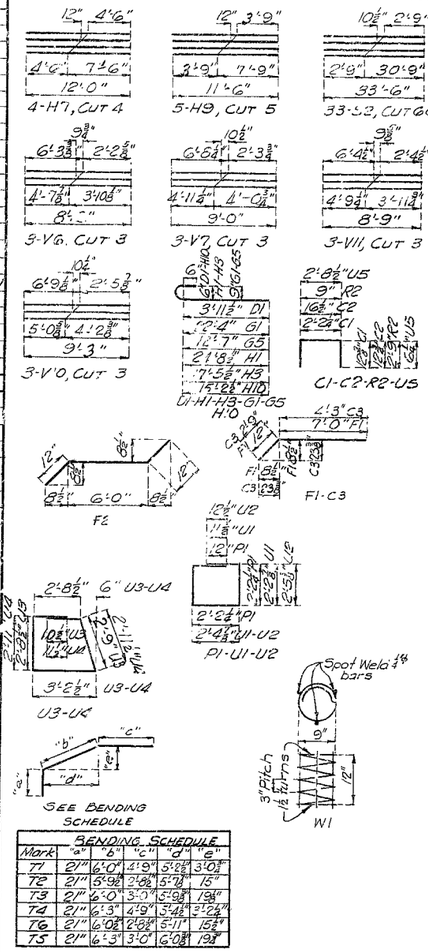


DETAILS OF TIMBER HEADER

COMPLETE BILL OF REINFORCING

No.	Size	Length	Mark	Location
		End Bent No. 1		
8	#6	26'-0"	H1	Beam
2	#6	40'-0"	H2	"
8	#6	18'-9"	H3	"
8	#4	20'-9"	H4	Backwall
2	#6	37'-3"	H5	"
8	#6	8'-9"	H8	Wing
5	#6	11'-6"	H9	"
4	#6	12'-9"	T4	Wing
2	#6	11'-0"	T5	Rt. Wing
2	#6	10'-6"	T6	Lt. Wing
23	#5	12'-3"	U3	Beam
16	#5	12'-9"	U4	"
11	#5	3'-9"	U5	"
8	#2	19'-3"	W1	A.B.Wells
64	#5	6'-6"	V8	Backwall
16	#5	7'-3"	V9	"
3	#5	9'-3"	V10	Rt. Wing
3	#5	8'-9"	V11	Lt. Wing
1	#5	6'-3"	V12	Rt. Wing
1	#5	6'-0"	V13	Lt. Wing
		Int. Bent No. 2		
24	#7	5'-3"	D1	Footing
30	#5	5'-9"	D2	"
7	#6	7'-3"	D3	Int. Ftg.
16	#6	8'-0"	F1	Haunch
8	#6	8'-0"	F2	"
4	#10	24'-0"	G1	Beam
2	#6	32'-6"	G2	"
6	#9	32'-6"	G3	"
5	#8	7'-9"	G4	"
4	#10	14'-3"	G5	"
51	#3	9'-9"	P1	Column
31	#5	10'-3"	U1	Beam
18	#5	10'-9"	U2	"
24	#7	20'-9"	V1	Column
8	#2	19'-9"	W1	A.B.Wells
		Int. Bent No. 3		
24	#7	5'-3"	D1	Footing
25	#5	5'-9"	D2	"
14	#6	8'-0"	D6	Ext. Ftg.
7	#6	8'-9"	D5	Int. Ftg.
16	#6	8'-0"	F1	Haunch
8	#6	8'-0"	F2	"
4	#10	24'-0"	G1	Beam
2	"	32'-6"	G2	"
6	#9	32'-6"	G3	"
3	#8	7'-9"	G4	"
4	#10	14'-3"	G5	"
69	#3	9'-9"	P1	Column
31	#5	10'-3"	U1	Beam
18	#5	10'-9"	U2	"
24	#7	26'-3"	V2	Column
8	#2	19'-9"	W1	A.B.Wells

Bending Sketches & Cutting Diagrams



BENDING SCHEDULE						
Mark	"a"	"b"	"c"	"d"	"e"	
T1	21"	6'-0"	4'-9"	5'-2½"	3'-0"	
T2	21"	5'-9"	2'-6"	5'-7"	15"	
T3	21"	6'-0"	3'-7"	5'-9"	19"	
T4	21"	6'-3"	4'-9"	3'-4"	3'-2"	
T6	21"	6'-0"	2'-8"	5'-11"	15"	
T5	21"	6'-3"	3'-0"	6'-0"	19"	

No.	Size	Length	Mark	Location
		Int. Bent No. 4		
24	#7	5'-3"	D1	Footing
25	#5	5'-9"	D2	"
14	#6	7'-6"	D7	Ext. Ftg.
7	#6	8'-6"	D8	Int. Ftg.
16	#6	8'-0"	F1	Haunch
8	#6	8'-0"	F2	"
4	#10	24'-0"	G1	Beam
2	#6	32'-6"	G2	"
6	#9	32'-6"	G3	"
3	#8	7'-9"	G4	"
4	#10	14'-3"	G5	"
72	#3	9'-9"	P1	Column
31	#5	10'-3"	U1	Beam
18	#5	10'-9"	U2	"
24	#7	28'-0"	V3	Column
8	#2	19'-9"	W1	A.B.Wells
		End Bent No. 5		
8	#6	26'-0"	H1	Beam
2	#6	40'-0"	H2	"
4	#6	18'-9"	H3	"
8	#4	20'-9"	H4	Backwall
2	#6	37'-3"	H5	"
8	#6	8'-9"	H6	Wing
4	#6	12'-0"	H7	"
4	#6	16'-6"	H10	Beam
4	#6	12'-6"	T1	Wing
2	#6	10'-3"	T2	Lt. Wing
2	#6	10'-9"	T3	Rt. Wing
23	#5	12'-3"	U3	Beam
16	#5	12'-9"	U4	"
11	#5	3'-9"	U5	"
62	#5	6'-6"	V4	Backwall
20	#5	7'-0"	V5	"
3	#5	8'-6"	V6	Lt. Wing
3	#5	9'-0"	V7	Rt. Wing
8	#2	19'-9"	W1	A.B.Wells
		Superstructure		
842	#5	31'-3"	S1	Slab
66	#5	53'-6"	S2	"
371	#5	31'-6"	S3	"
120	#5	16'-7"	S4	"
40	#5	3'-6"	S5	"
20		4'-3"	C1	Curb
396	#5	3'-6"	C2	"
4	#5	7'-0"	C3	"
12	#5	23'-6"	C4	"
24	#5	30'-6"	C5	"
12	#5	23'-9"	C6	"
64	#4	3'-9"	R1	End Post
20	#5	6'-3"	R2	" "

BRIDGE OVER KANSAS CITY SOUTHERN R.R.

STATE ROAD NEOSHO BY-PASS

ABOUT 2.2 MILES S. OF NEOSHO

PROJECT NO. F-FG-444(3)(RT.30 TR) **STA.** 73+47.86

NEWTON **COUNTY**

Drawn Aug. 1958 by M.H.P.
Checked Dec. 1958 by C.S.A.

Note: This drawing is not to scale. Follow dimensions.

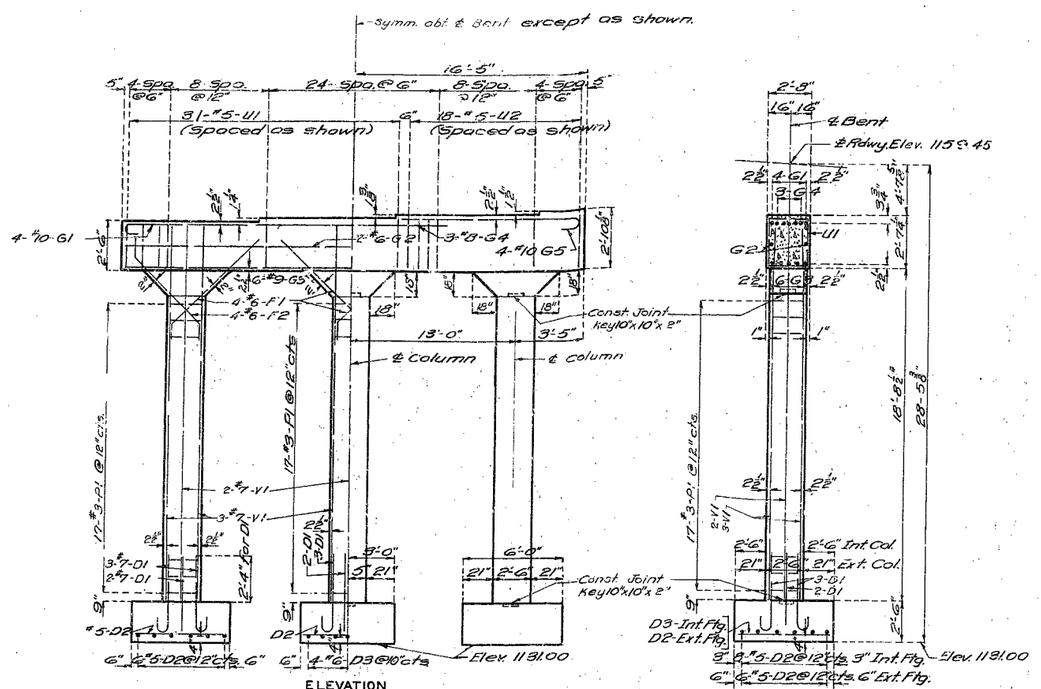
Sheet No. 2 of 3.

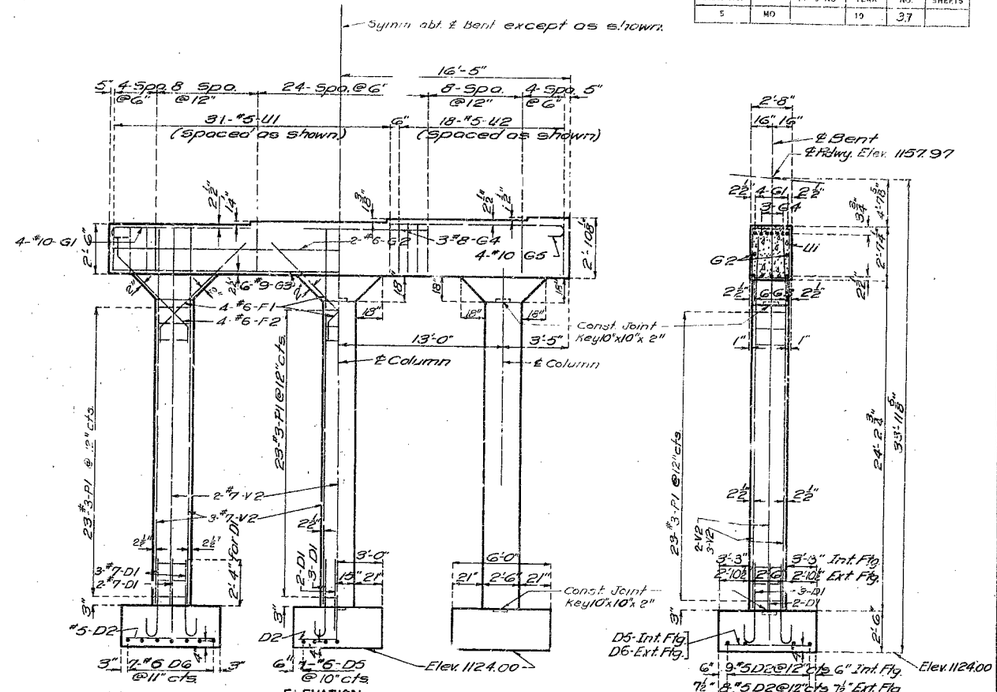
A-334

NO CONSTRUCTION CHANGES

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO		19	37	





FINISHED

BRIDGE OVER KANSAS CITY SOUTHERN R R

STATE ROAD: NEOSHO BY-PASS

ABOUT 2.2 MILES S. OF NEOSHO

PROJECT NO. F-FG-444 (3) (RT. 60 TR) STA. 3+47.86 FINISHED

NEWTON COUNTY

FINISHED

A-334

92

Assembled Aug. 1958 by M.H.P & J.C.F.
Checked Dec. 1958 by C.S.A.

Note: This drawing is not to scale. Follow dimensions.

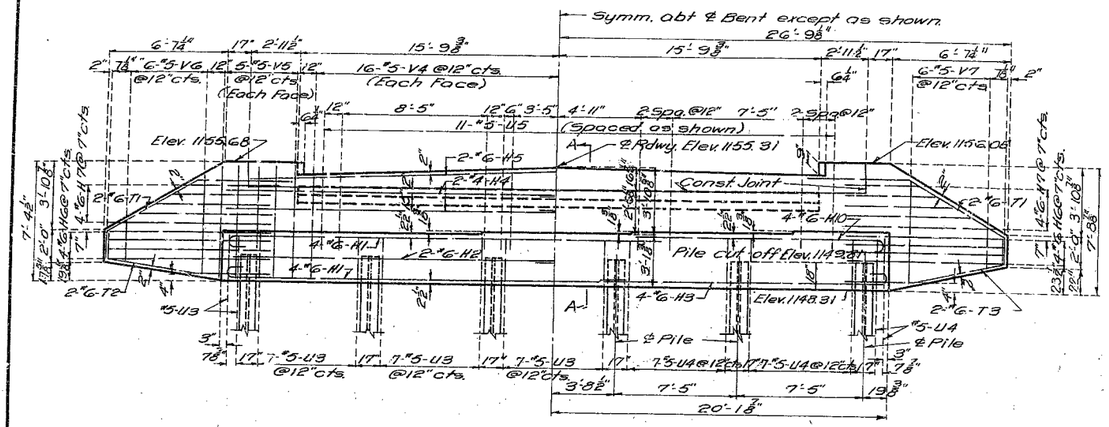
Sheet No 3 of 8.

NO CONSTRUCTION CHANGES

2 or 3 Col. Int. Square or Skewed } All Loadings

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	3A	



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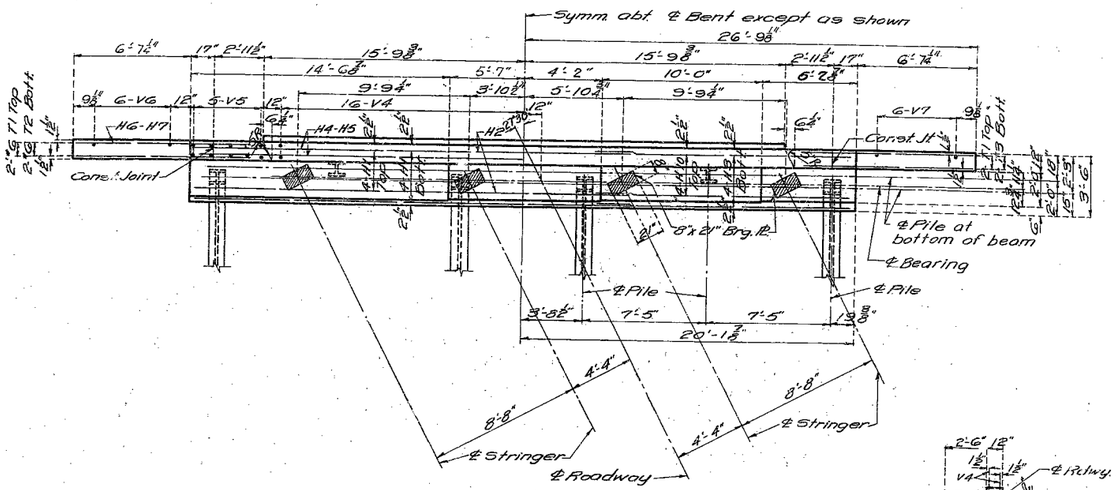
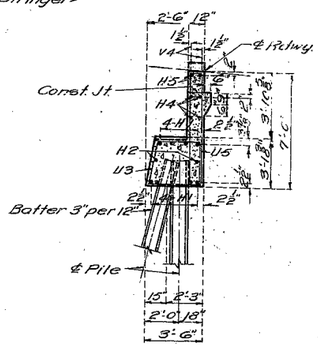


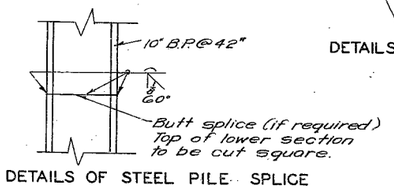
PLAN

Note: Top of backwall and expansion device to conform to crown of roadway.
Backwall above construction joint shall not be poured until the structural steel of the expansion device has been installed and the slab in adjacent span has been poured.

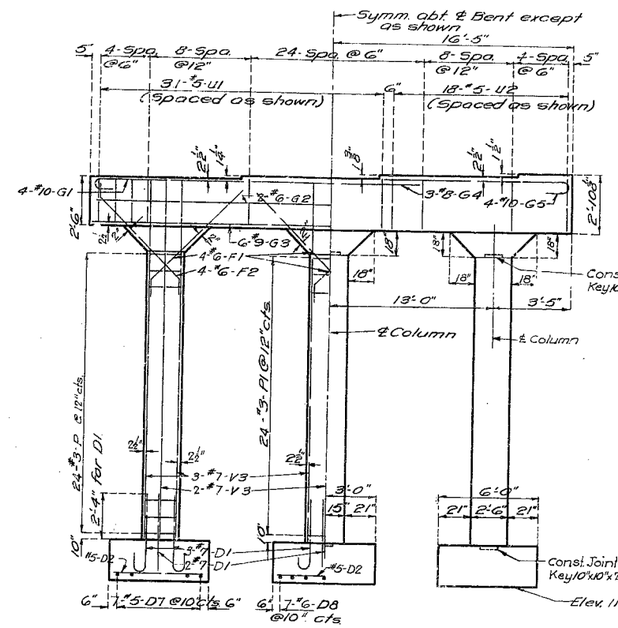


SECTION A-A

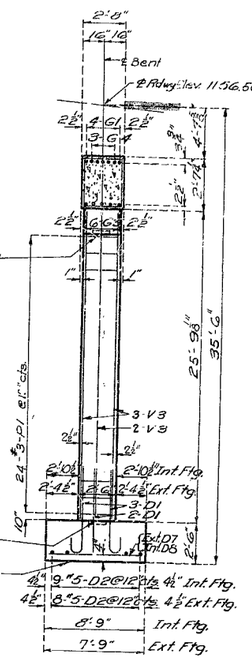
DETAILS OF END BENT NO. 5



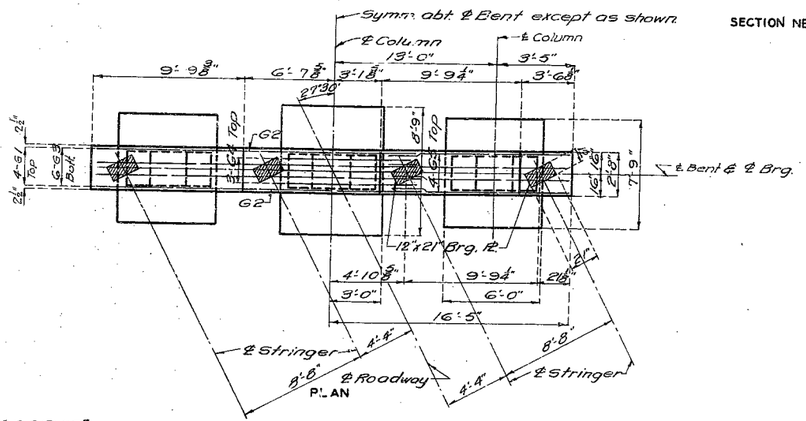
DETAILS OF STEEL PILE SPLICE



ELEVATION



SECTION NEAR ℄



PLAN

DETAILS OF INT. BENT NO. 4

FINISHED

BRIDGE OVER KANSAS CITY SOUTHERN R.R

STATE ROAD: NEOSHO BY-PASS
ABOUT 2.2 MILES S. OF NEOSHO
PROJECT NO. F-FG-4-44(3)(RT 60TR) STA. 738+47.86

NEWTON COUNTY

FINISHED

FINISHED

A-334

Assembled Aug. 1958 by M.H.P. & J.C.F.
Checked Dec. 1958 by C.S.A.

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 4 of 8.

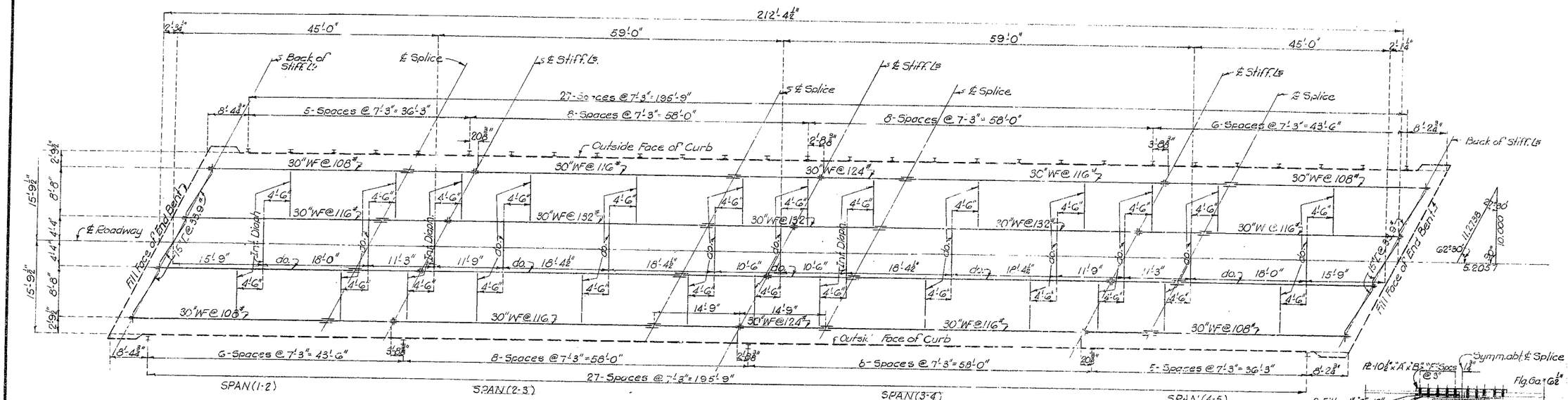
NO CONSTRUCTION CHANGES

2 or 3 Col. Int. } 20 & 22' Rdwy.
Square or Skewed } H10

93

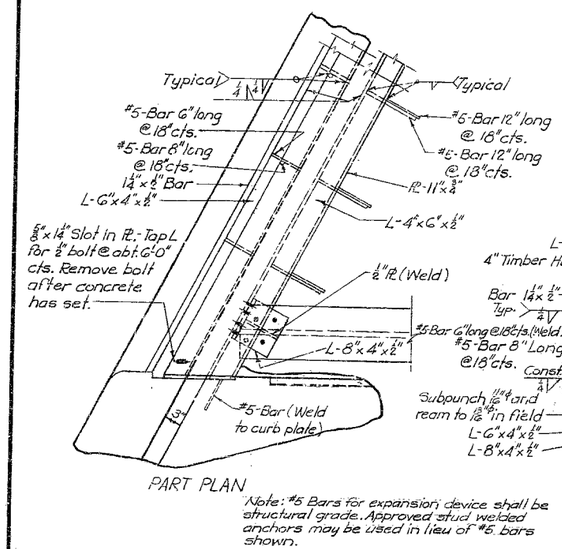
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SH
5	MO.		19	35	



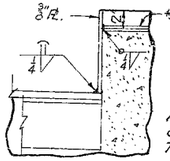
Note: Longitudinal dimensions are parallel to grade of roadway surface.

PLAN OF STRUCTURAL STEEL

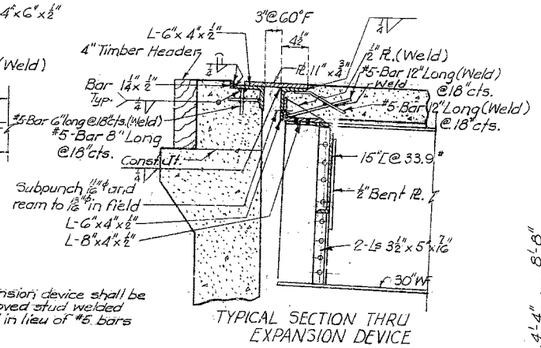


PART PLAN

Note: #5 Bars for expansion device shall be structural grade. Approved stud welded anchors may be used in lieu of #5 bars shown.

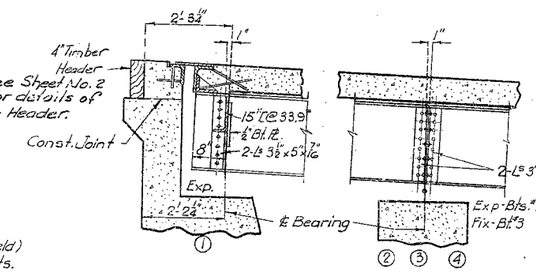


CURB PLATE

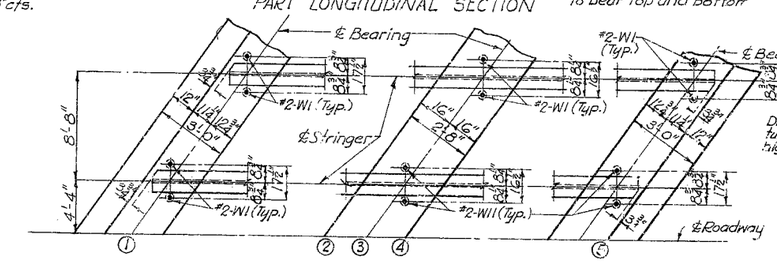


TYPICAL SECTION THRU EXPANSION DEVICE

DETAILS OF EXPANSION DEVICE AT END BENTS NO. 1 & 5



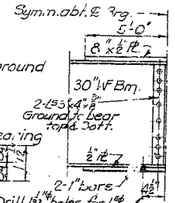
PART LONGITUDINAL SECTION



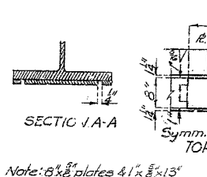
PART ANCHOR BOLT PLAN

Note: See Sheet No. 8 of 8 for detail of Spirals.

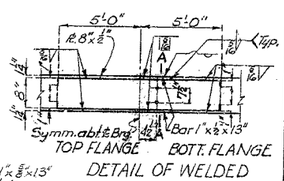
Note: All stiffener angles ground to bear top and bottom



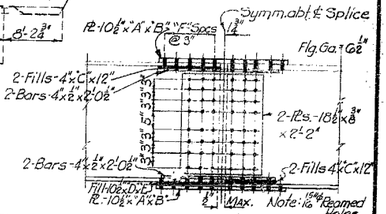
DETAIL OF STIFFENER ANGLES AT INT. BTS. 2, 3 & 4.



Note: 6"x⅝" plates & 1"x⅝"x13" bars on interior stringers at Bent No. 3 only.



DETAIL OF WELDED PLATES OVER INT. BENTS NO. 2, 3 & 4



Note: 15/16" Reamed Holes

	"A"	"B"	"C"	"D"	"E"	"F" Spcs.
30" WF @ 108# to 116#	½"	2'-6½"	13 Ga.	⅞"	15"	4
30" WF @ 116# to 124#	⅝"	3'-0½"	14 Ga.	8 Ga.	18"	5
30" WF @ 116# to 132#	⅝"	3'-0½"	9 Ga.	⅞"	16"	5
30" WF @ 132# to 132#	⅝"	3'-0½"			18"	5

DETAIL OF BEAM SPLICES

BRIDGE OVER KANSAS CITY SOUTHERN R.R. ABANDONED

STATE ROAD NEOSHO BY PASS

ABOUT 2.2 MILES S. OF NEOSHO

PROJECT NO. F-FG-444(3)(Rt. GOTR) **STA.** 738+47.86

NEWTON **COUNTY**

FINISHED

A-334

Drawn Aug. 1958 by B.R.G.
Checked Dec. 1958 by C.S.A.

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 5 of 8.

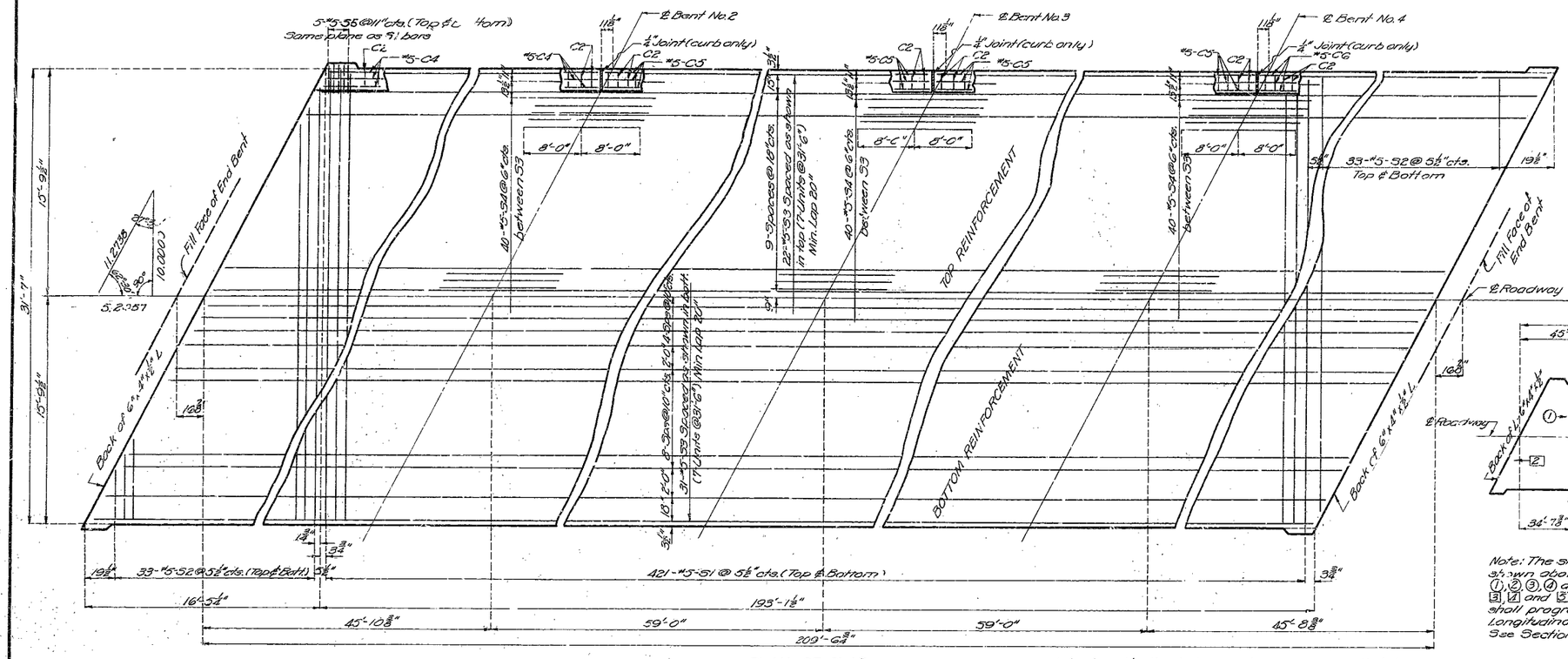
NO CONSTRUCTION CHANGES

FINISHED

94

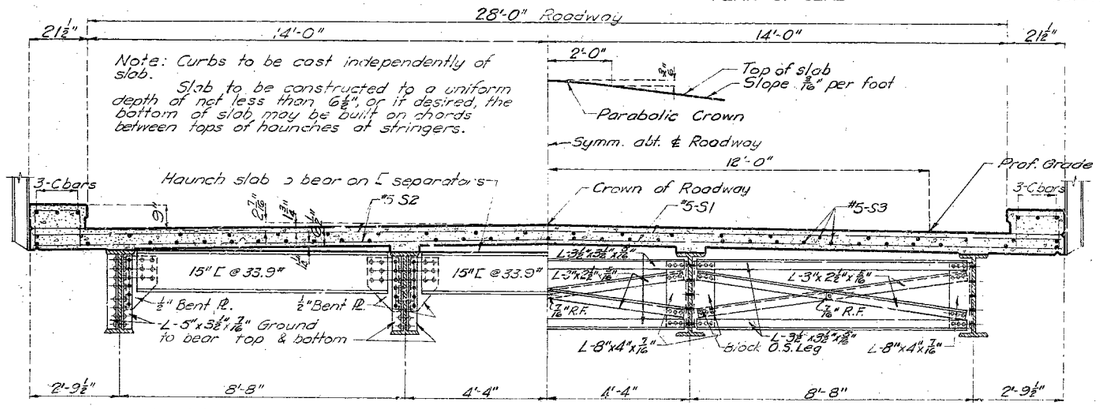
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	90	



PLAN OF SLAB

Note: Longitudinal dimensions are parallel to grade and at roadway surface.

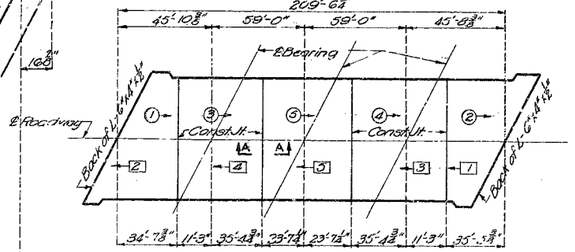


HALF SECTION NEAR END DIAPHRAGM

HALF SECTION NEAR INT. DIAPHRAGM

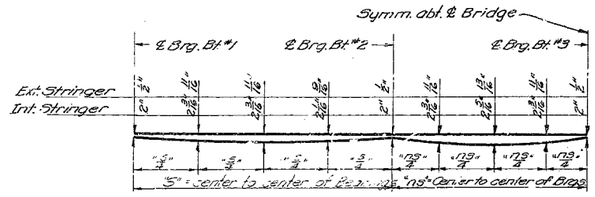


DETAIL OF SLAB CONST. JT.



SLAB POURING SEQUENCE

Note: The slab shall be poured in sections of the length shown above and in sequence indicated by the numbers ①,②,③,④ and ⑤ or as an alternate, by the numbers [1],[2] [3],[4] and [5]. The separate pours shall progress in the direction indicated by the arrows. Longitudinal Construction Joints will not be permitted. See Section 16-3E of Supplemental Specifications.



Note: Slab shall be built parallel to grade and to a minimum thickness of 6½". Dead load deflection, crown and difference in depth of stringers shall be taken care of by haunching to stringers by the amount shown above. This additional concrete is included in Estimated Quantities.

SLAB HAUNCHING DIAGRAM

FINISHED

BRIDGE OVER KANSAS CITY SOUTHERN R.R.

STATE ROAD: NEOSHO BY-PASS

ABOUT 2.2 MILES S. OF NEOSHO

PROJECT NO. F-FG-444(3)(RT.60TR) STA. 738+47.86 FINISHED

NEWTON COUNTY

FINISHED

A-334

Drawn Aug. 1958 by BRG & JRS
Checked Dec. 1958 by C.S.A.

Note: This drawing is not to scale. Follow dimensions.

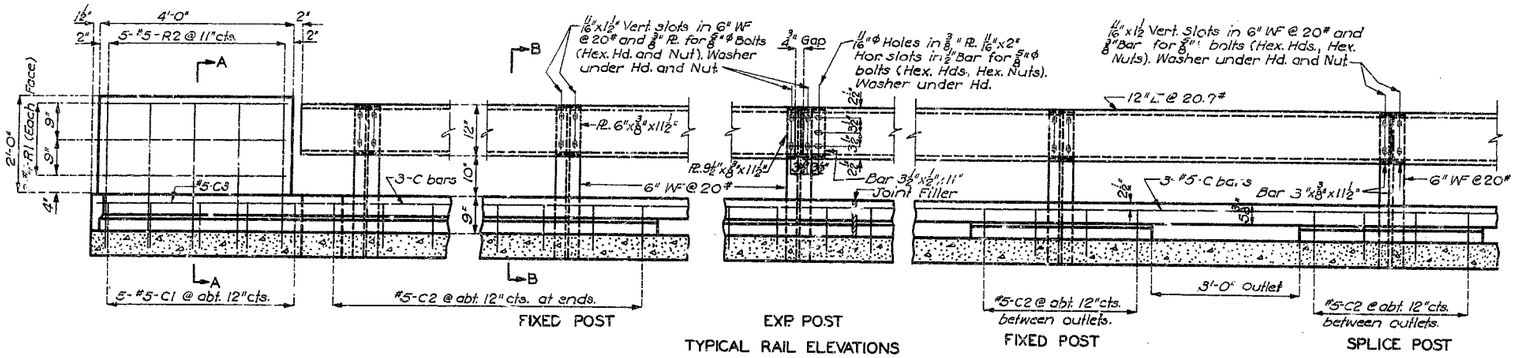
Sheet No. 6 of 8.

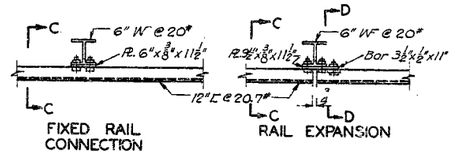
NO CONSTRUCTION CHANGES

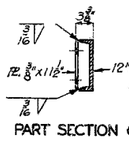
95

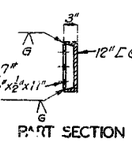
MISSOURI STATE HIGHWAY DEPARTMENT

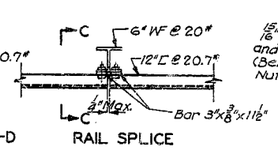
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	41	

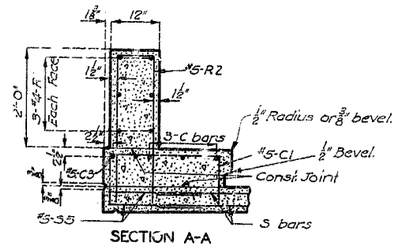


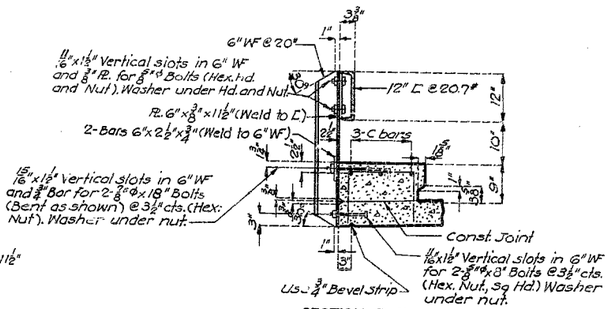




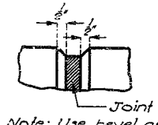






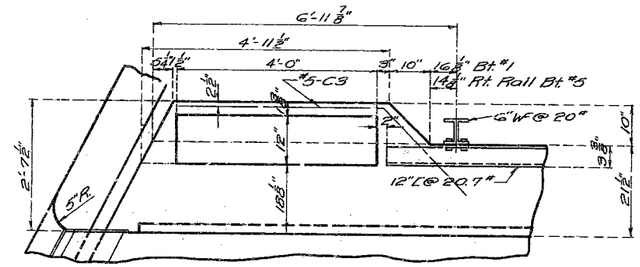


Note: Channel rail to be adjusted for horizontal alignment by use of full size metal shims placed between 6" WF and connection Pl. shims of 1/8", 1/4" thickness to be furnished with structural steel. Cost of shims to be included in price bid for other items.



Note: Use bevel as shown for exposed faces of all filled joints except at top surface of roadway slab.

DETAILS OF BEVEL FOR FILLED JOINTS



PLAN OF END POSTS
BENTS NO. 1 & 5

General Notes:
Omit all curb outlets.
Top of curb and end posts to be built parallel to grade.
Vertical faces of end posts to be vertical.
All exposed edges of end posts to be beveled 1/2".
6" WF posts to be set normal to grade.

FINISHED

BRIDGE OVER KANSAS CITY SOUTHERN RR

STATE ROAD: NEOSHO BY-PASS

ABOUT 2.2 MILES S. OF NEOSHO

PROJECT NO. F-FG-444(3)XRT. 60 TR STA. 738+47.86 FINISHED

NEWTON COUNTY

FINISHED

A-334

Drawn 1958 by B.R.G.
Traced 1958 by J.C.F.
Checked Dec. 1958 by C.S.P.

This drawing is not to scale: follow dimensions.

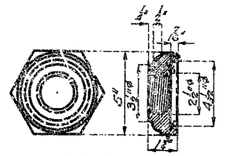
Sheet No. 7 of 8.

NO CONSTRUCTION CHANGES

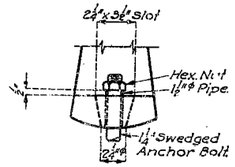
96

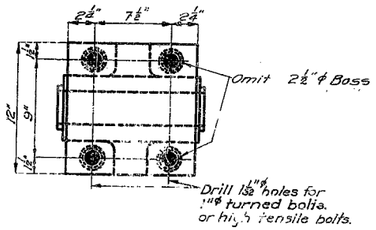
MISSOURI STATE HIGHWAY DEPARTMENT

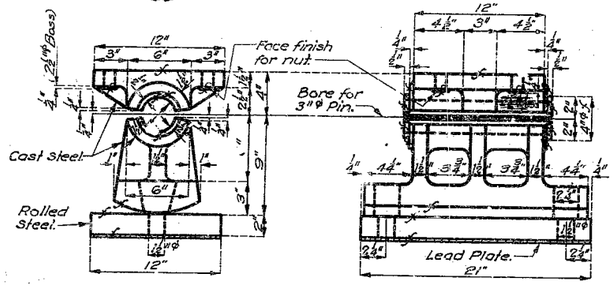
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO		19	42	



CAST STEEL NUT
24-Required.
12-3"φ Rolled steel pins required.

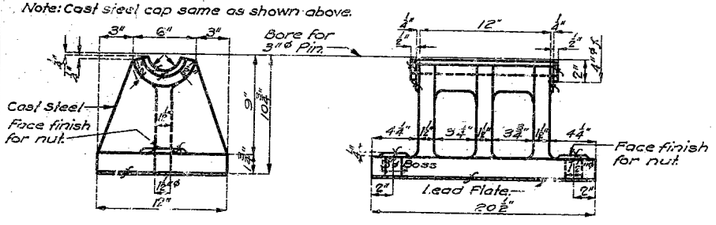






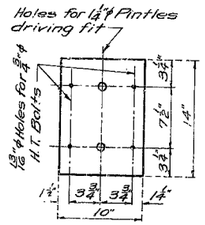
EXPANSION ROCKER
8-Reqd. Bents No. 2 & 4

Note: Cast steel cap same as shown above.

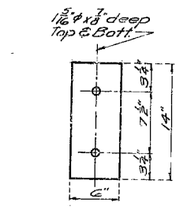


FIXED PEDESTAL
4-Required Bent No. 3

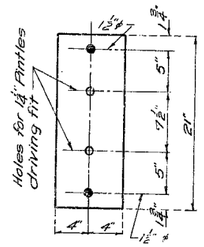
Note: Finish all surfaces marked f.
All fillets shall have ¾" Radius.
Material shall be cast steel except as noted
All pins, bolts, nuts, pipe sleeves and rolled steel shall be paid for as Structural Steel.
Anchor bolts shall be 1¼"φ swedged bolts with Hex. nuts and shall extend 12" into concrete.



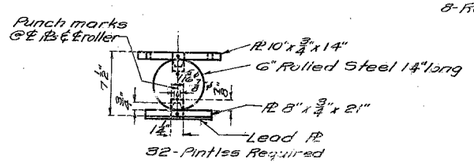
TOP PLATE
8-Required



PLAN OF ROLLER
8-Required



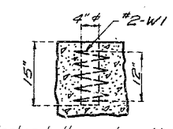
BOTTOM PLATE
8-Required



BEARING ASSEMBLY

DETAIL OF BEARINGS BENTS NO. 1 & 5

Note: Material for plates shall be U.S.S. T1 alloy steel or equivalent. Material for roller and pintles shall be cold finished carbon steel A.I.S.I.-C-1042 or C-1045 (Turned and polished)
Anchor bolts shall be 1¼"φ swedged bolts with Hex. nuts, no heads and shall extend 12" into concrete. All Material to be paid for as Fabricated Structural Steel.
All lead plates under bearings shall be approximately ⅛" thickness and shall weigh 8#/□'. Cost of lead plates shall be included in price bid for other items.



Note: Anchor bolts may be set in wells as shown or in holes drilled into concrete substructure. See Special Provisions for setting Anchor Bolts.

DETAIL OF SPIRAL AROUND ANCHOR BOLTS

FINISHED

BRIDGE OVER KANSAS CITY SOUTHERN R R

STATE ROAD: NEOSHO BY-PASS
ABOUT 2.2 MILES S. OF NEOSHO
PROJECT NO. F-FG-444(3)(RT.60TR) STA. 738+47.86

NEWTON COUNTY

FINISHED

Assembled Aug. 1958 By B.R.G. & J.C.F.
Checked Dec. 1958 by C.S.A.

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 8 of 8

A-334

Revised 6-20-5

NO CONSTRUCTION CHANGES

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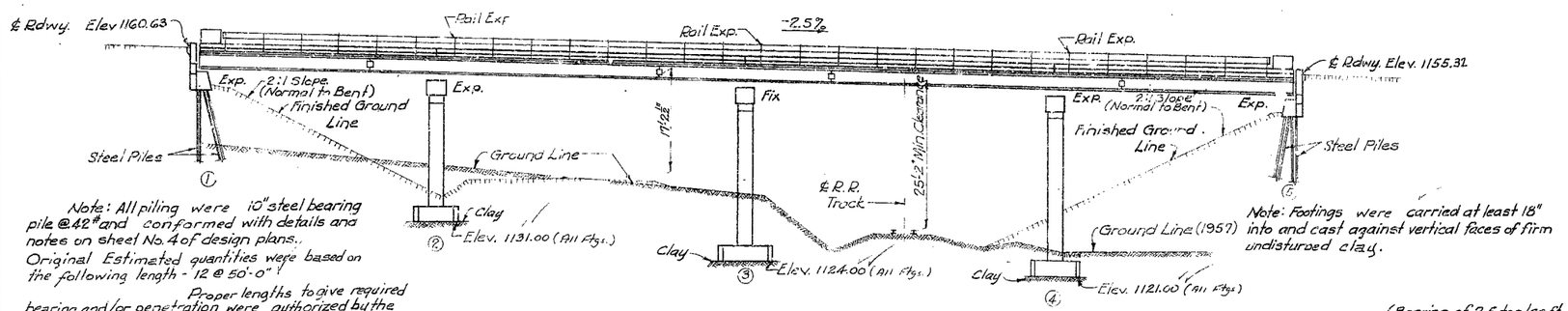
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	35	

45'-59'-59'-45' Cont'l. I-Bm. Spans.



GENERAL ELEVATION

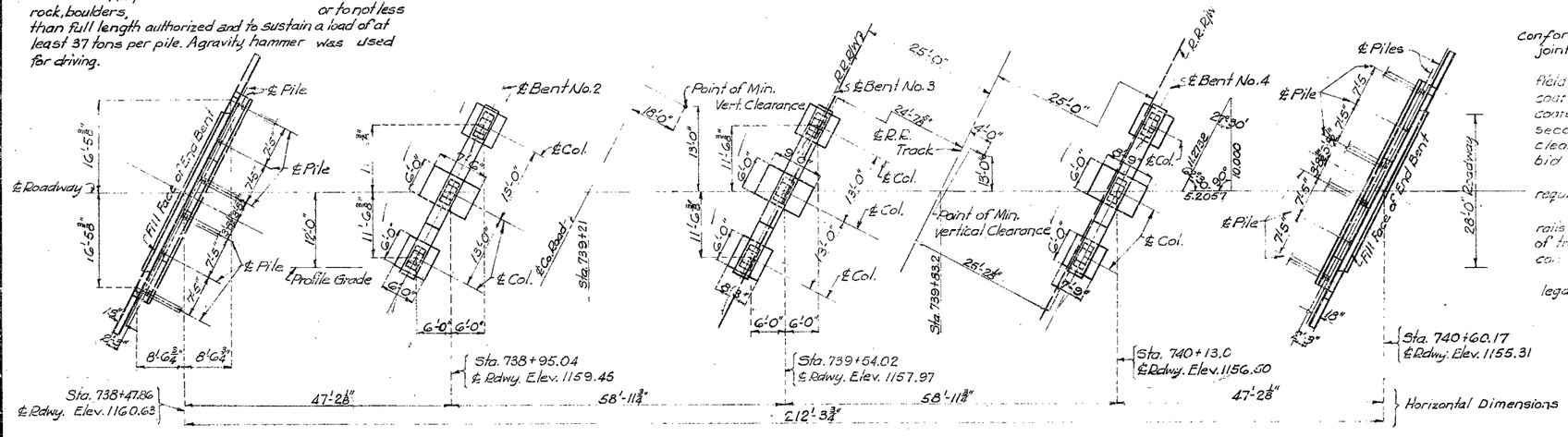
Note: All piling were 10" steel bearing pile @ 42" and conformed with details and notes on sheet No. 4 of design plans.. Original Estimated quantities were based on the following length - 12 @ 50'-0"

Proper lengths to give required bearing and/or penetration were authorized by the Engineer.

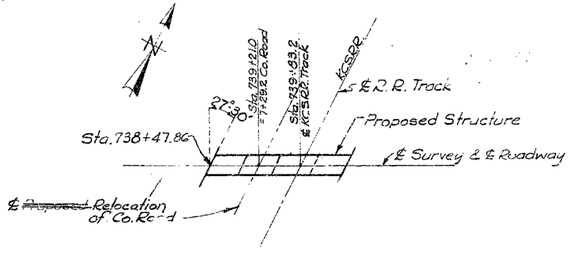
All piles were driven to or into solid rock, boulders, or to not less than full length authorized and to sustain a load of at least 37 tons per pile. A gravity hammer was used for driving.

Note: Footings were carried at least 18" into and cast against vertical faces of firm undisturbed clay.

(Bearing of 2.5 ton/sq.ft. used in design)



PLAN



LOCATION SKETCH

FINAL QUANTITIES

Item		Superstr.	Substr.	Total
Class 1 Excavation for Structure	Cu.Yds.		234	234
Class "B" Concrete	Cu.Yds.		162.0	162.0
Class "B1" Concrete	Cu.Yds.	68.4		158.4
Reinforcing Steel	Lbs.	47200	17950	65150
* Fabricated Structural Steel	Lbs.	143690		143690
Steel Castings	Lbs.	3980		3980
Steel Pile - In Place	Lbs.		890	890
Steel Pile - Cut-Offs	Lbs.		50	50

Note: All excavation for bridge was paid for as Class 1 Excavation for Structures.

* Final pay weight of Fabricated Structural Steel was based on using field rivets except for bolted connections specified for handrails.

GENERAL NOTES:

Design Specifications A. A. S. H. O. (1957)
Loading H20-44 (Future Wearing Surface 15#/c.f.)
Structural Steel Stress 18,000 #/sq.in.
Reinforcing Steel Stress 20,000 #/sq.in.
Concrete Class "B" Stress 1,200 #/sq.in.
Rivets ⅞" ϕ, holes 1 1/16" ϕ except as noted.
Qualification of welding operators was required.
Concrete for superstructure was Class "B-1" air-entrained.
Concrete for substructure was Class "E" air-entrained.

Field connections - High Tensile steel bolts with carburized washers in place of rivets.

Where joint filler is specified on the plans it conformed with the requirements for Gray Rubber Compound joints as given in Section 59-22.8 of the Standard Specifications.

Paint: Shop, none; Field, contact surfaces of bolted field connections, except where high tensile bolts were used, one coat of red lead and surfaces inaccessible after erection three coats of red lead. All other exposed surfaces first coat red lead, second coat brown, third coat aluminum. Payment for cleaning and all painting was made under unit price bid for painting.

See Section 22-90 of the Std. Specifications for required painting of steel piles.

A minimum vertical clearance of 22'-0" from top of rails and a minimum lateral clearance of 10'-0" from centerline of tracks was maintained over railroad tracks during construction.

Permits must be obtained for all truck loads over legal length.

FINISHED

BM #A "X" on S.W. Cor. of Abut. ear Bent #1 - 179' Rt. of Sta. 738+38.5 Elev. 1161.37

BRIDGE OVER KANSAS CITY SOUTHERN R. R.

STATE ROAD: NEOSHO BY-PASS

ABOUT 2.2 MILES S. OF NEOSHO

PROJECT NO. F-FG-444(3)XRT.60TR **STA.** 738+47.86

FINISHED

NEWTON **COUNTY**

SUBMITTED BY J. A. Tibbetts BRIDGE ENGINEER DATE 1-29-1959

APPROVED BY Ray M. Whitten CHIEF ENGINEER DATE 1-29-1959 FINISHED

STD.C-11027

A-334

Drawn Aug. 1958 by B.R.G.
Checked Dec. 1958 by C.S.A.

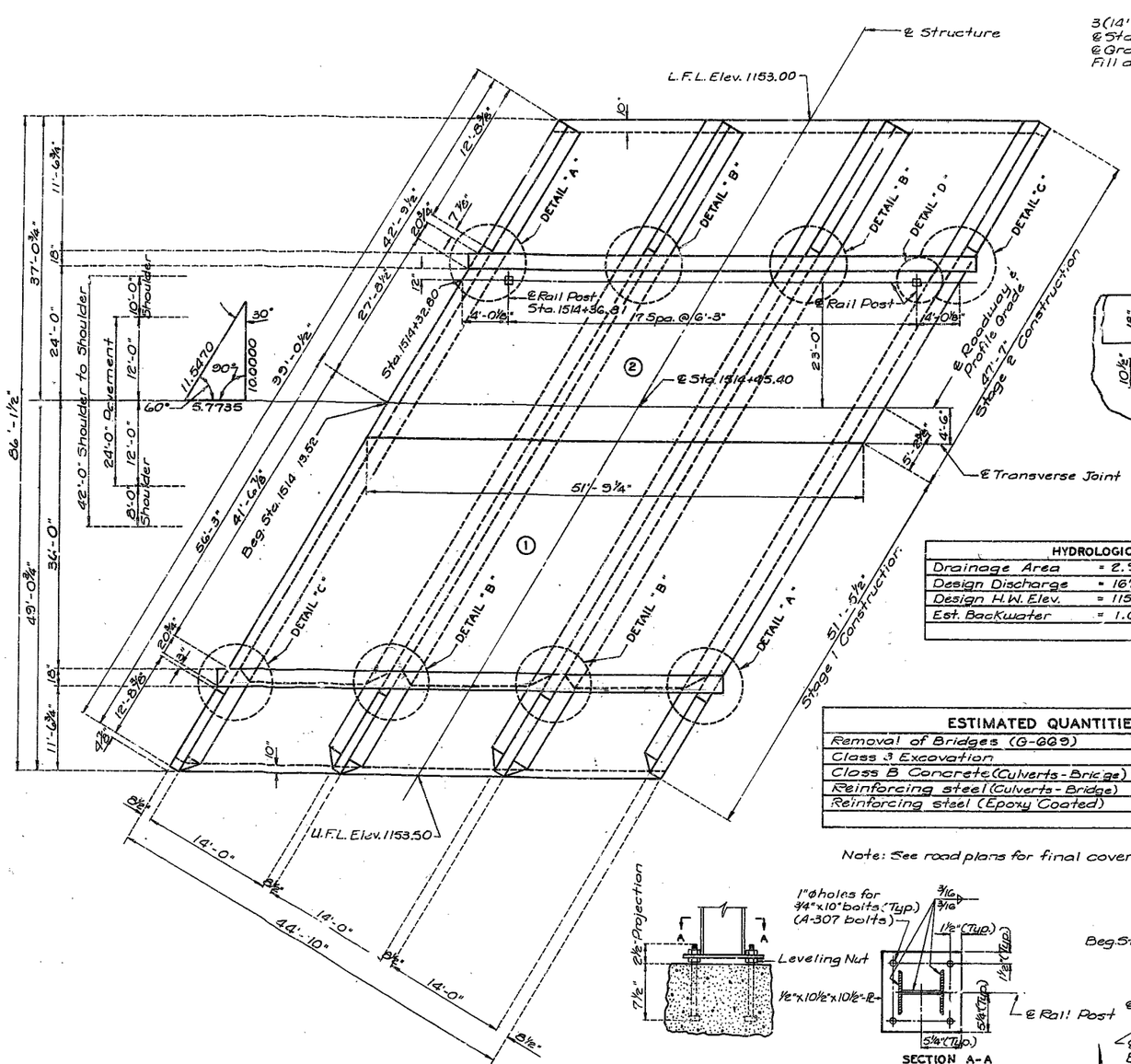
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1A of 1

FINAL PLANS

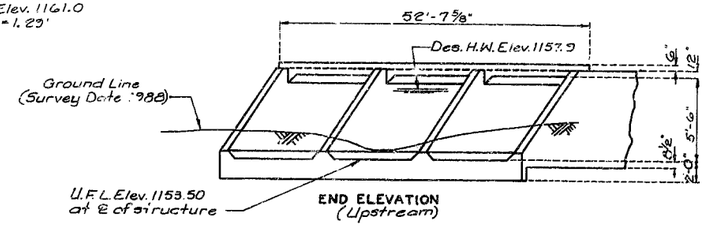
MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

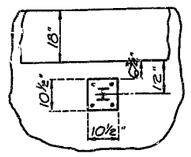
STATE	PROJ NO	SHEET NO
MO		31
SEC/SUR 4 & 33 TWP 25 & 26 N RGE 30 W		



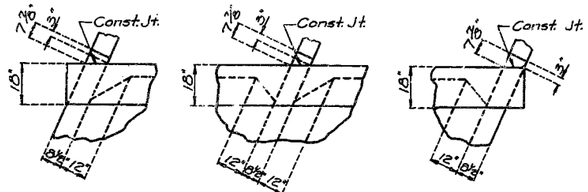
PLAN

3(14' x 5'-6") Concrete Box Culvert
℄ Sta. 1514+45.40
℄ Grade Elev. 1161.0
Fill at ℄ = 1.29'





DETAIL "D"



Note: Bevel Haunches required on upstream end only.

HYDROLOGIC DATA		
Drainage Area	= 2.9 Sq. Miles (Rolling)	
Design Discharge	= 1670 cfs.	(100 Years)
Design H.W. Elev.	= 1157.9	(100 Years)
Est. Backwater	= 1.0 ft.	

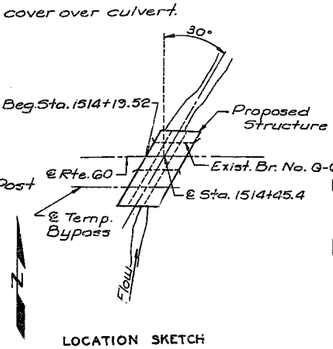
ESTIMATED QUANTITIES			FINAL QUANTITIES
Removal of Bridges (G-GG9)	Each	1	
Class 3 Excavation	Cu. Yd.	435	
Class B Concrete (Culverts - Bridge)	Cu. Yd.	317.8	
Reinforcing steel (Culverts - Bridge)	Lbs.	20860	
Reinforcing steel (Epoxy Coated)	Lbs.	18570	

Note: See road plans for final cover over culvert.

SECTION A-A

DETAIL OF POST ATTACHMENT TO CULVERT

Note: Cost of furnishing and installing anchor bolts and leveling nuts for guard rail posts shall be included in price bid for other items.
Guard rail and guard rail posts assembly shall be furnished and paid for as Roadway Item.
All anchor bolts and leveling nuts shall be galvanized after fabrication in accordance with Sec. 712.



LOCATION SKETCH

GENERAL NOTES:

Design Specifications:
AASHTO. 1989 Load Factor Design.

Design Loading:
HS 20-44, Earth 120#/Cu.Ft.
Equivalent Fluid Pressure 45#/Cu.Ft.

Design Unit Stresses:
Class B Concrete f'_c = 3,000 psi.
Reinforcing Steel (Grade 60) f_y = 60,000 psi.

Reinforcing Steel:
Minimum clearance to reinforcing steel shall be 1½" unless otherwise shown.
Lap #4 Longitudinal Bars a minimum of 22" at splices.

Traffic Maintained:
Two way traffic over existing structure and on temporary by-pass over proposed structure to be maintained during stage construction.

For Excavation see Special Provisions.

B.M. #36 (U.S.G.S. Datum) Elev. 1160.49 X on ctr. W. Hdwll. Culv. Under Side Road North 43.4' Lt. Sta. 1512+38.

BRIDGE OVER CULPEPPER BRANCH

STATE ROAD FROM NEOSHO TO MONETT

ABOUT 1 MILE EAST OF GRANBY

PROJECT NO. STA. 1514 + 19.52

JOB NO. 7P 361-60 RTE. 60

NEWTON COUNTY

DATE 10/4/90

STD. 606.00	
STD. 706.35	
A-4961	

DESIGNED SEPT. 1989
DETAILED NOV. 1989
CHECKED FEB. 1990

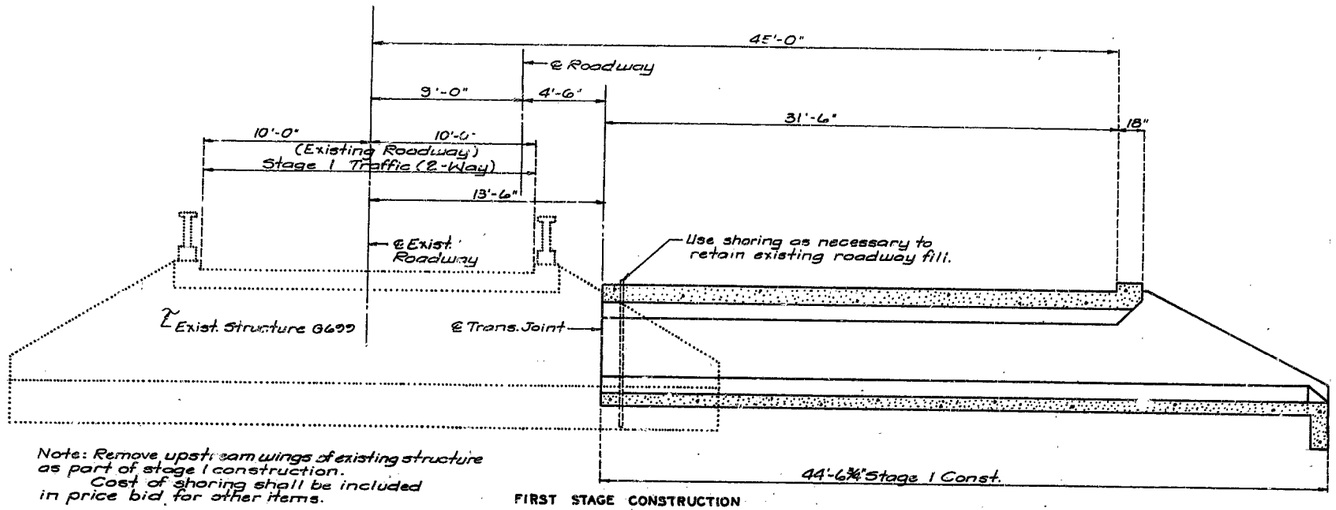
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1 of 7

SEE PLANS

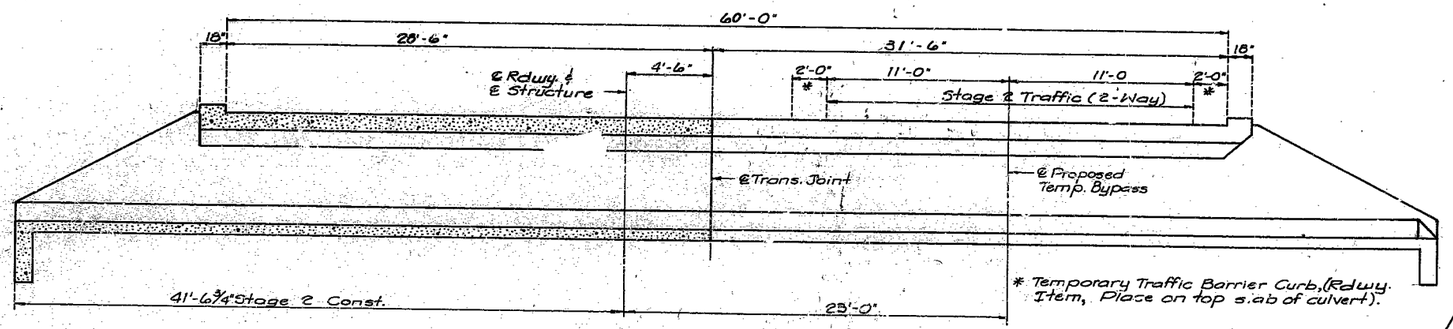
48 427

STATE	PROJ. NO.	SHEET NO.
MO.		32



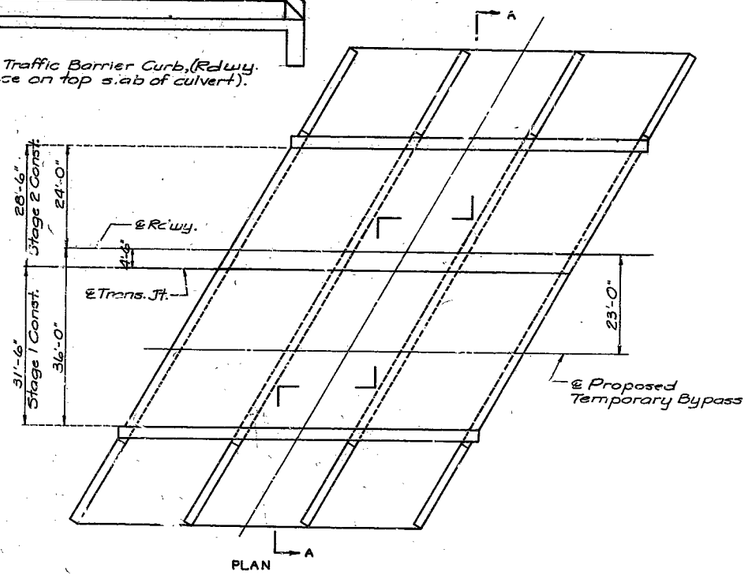
Note: Remove upstream wings of existing structure as part of stage 1 construction. Cost of shoring shall be included in price bid for other items.

FIRST STAGE CONSTRUCTION



SECOND STAGE CONSTRUCTION

SECTION A-A
CONSTUCTION STAGES



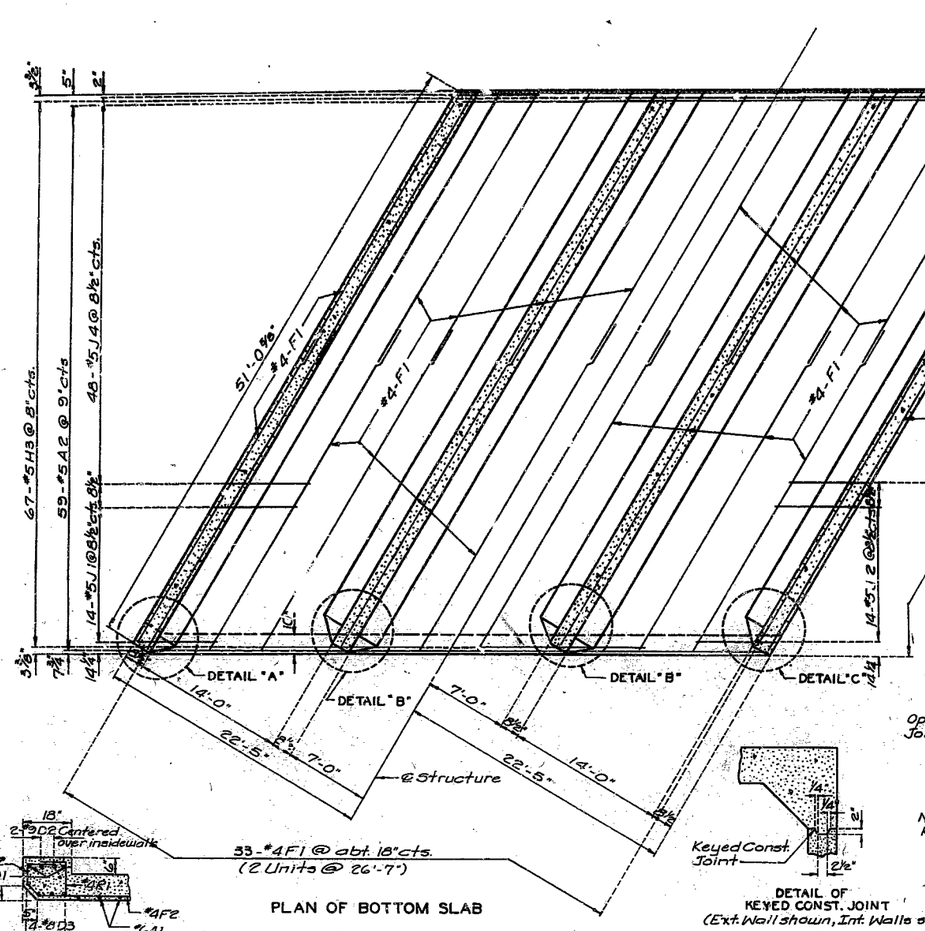
44 423

DETAILED NOV. 1989
CHECKED FEB. 1990

Note: This drawing is not to scale. Follow dimensions.

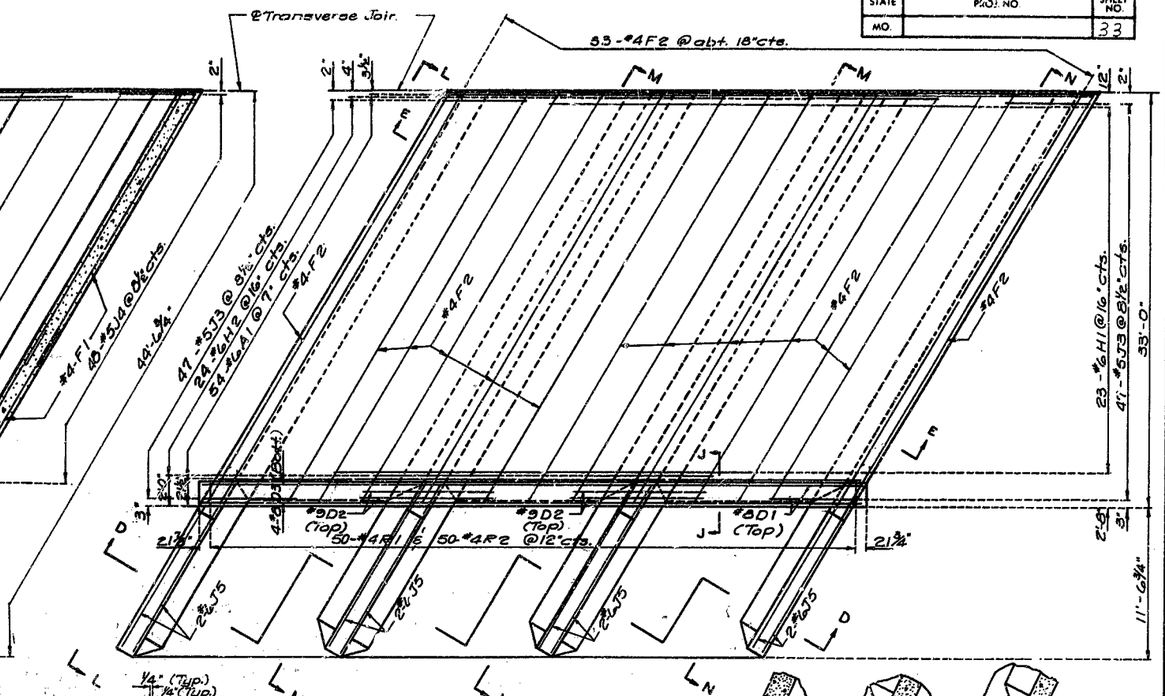
NEWTON COUNTY A-4961

STATE	PROJ. NO.	SHEET NO.
MO.		33

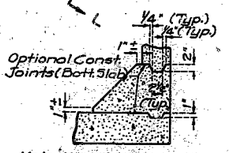


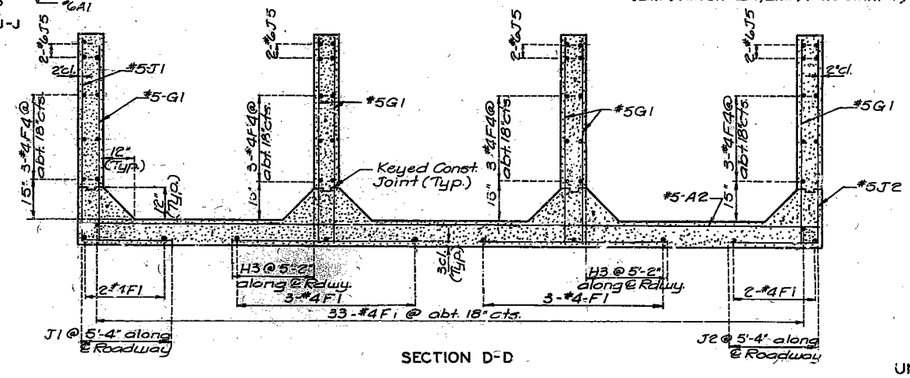
PLAN OF BOTTOM SLAB

SECTION J-J

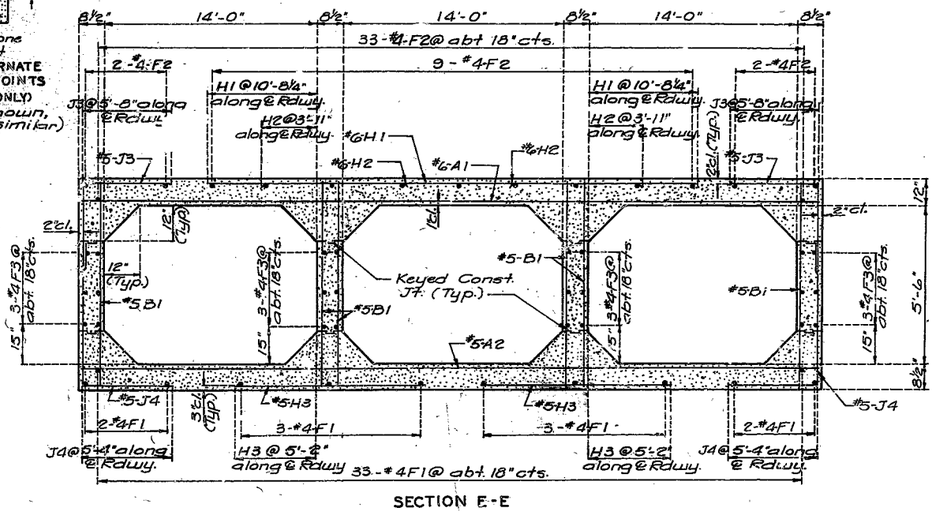


PLAN OF TOP SLAB





SECTION D-D



SECTION E-E

UNIT (1)
STAGE I CONSTRUCTION

Note: For Elev. L-L and Section M-M see sheet No. 5.
For Section N-N see sheet No. 6.

DETAILED NOV. 1989
CHECKED FEB. 1990

Note: This drawing is not to scale. Follow dimensions.

NEWTON COUNTY

A-4961

STATE	PROJ. NO.	SHEET NO.
MO.		34

DETAIL "A" DETAIL "B" DETAIL "B" DETAIL "C"

PLAN OF BOTTOM SLAB

PLAN OF TOP SLAB

Note: For Elev. O-O and section P-P see sheet No. 5. For Sect. Q-Q see sheet No. 6.

DETAIL "A" DETAIL "B" DETAIL "C"

Note: For location & details of guard rail post attachment see sheet No. 1.

SECTION K-K

DETAIL OF FILLED TRANSVERSE JOINT THRU WALL

DETAIL OF FILLED TRANSVERSE JOINT THRU TOP & BOTT. SLAB

SECTION F-F

Note: For details of Keyed Const. Joint see sheet No. 3.

SECTION G-G

UNIT (2)
STAGE 2 CONSTRUCTION

DETAILED NOV. 1989
CHECKED FEB. 1990

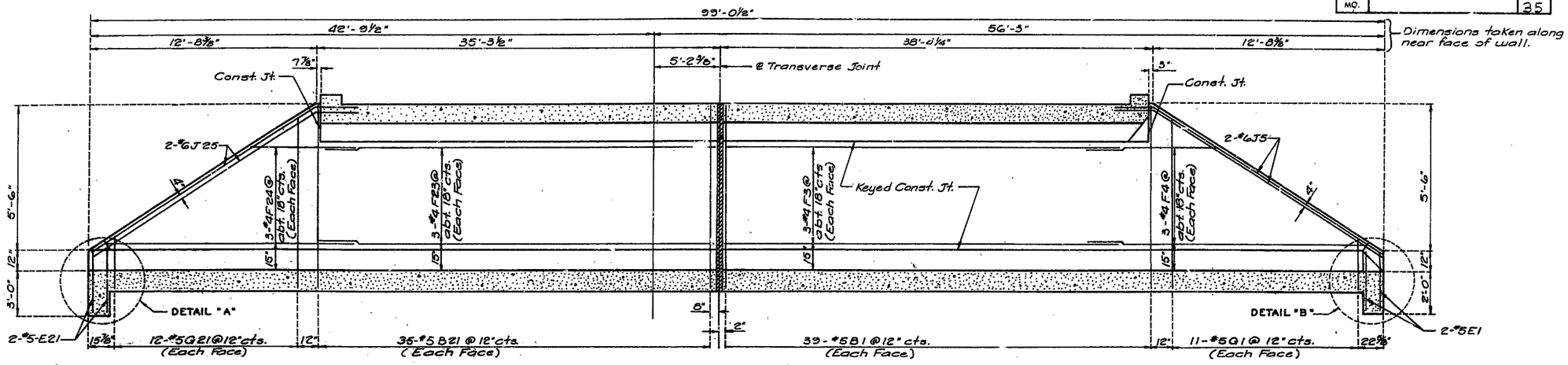
Note: This drawing is not to scale. Follow dimensions.

Sheet No. 4 of 7

NEWTON COUNTY A-4961

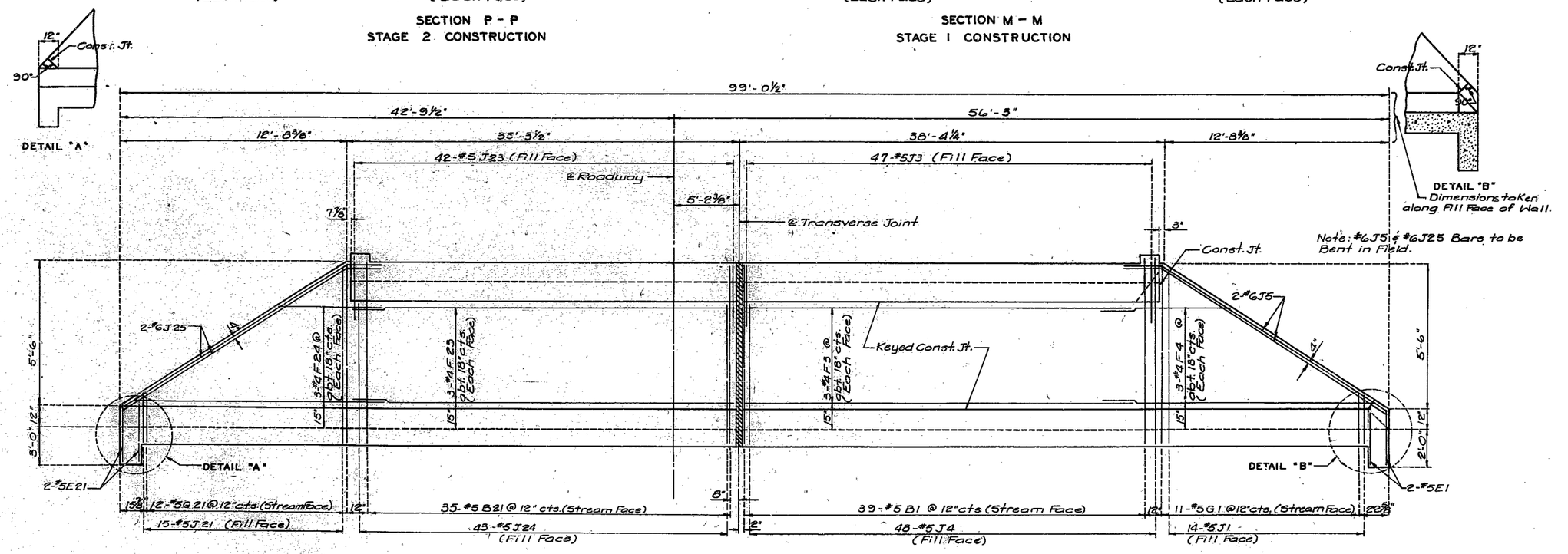
43 425

STATE	PROJ. NO.	SHEET NO.
MO.		25



SECTION P - P
STAGE 2 CONSTRUCTION

SECTION M - M
STAGE 1 CONSTRUCTION



ELEVATION O - O
STAGE 2 CONSTRUCTION

ELEVATION L - L
STAGE 1 CONSTRUCTION

Note: For location of Elev. L-L and Section M-M see sheet No.3.
For location of Elev. O-O and Section P-P see sheet No.4.
For spacing of #5J1, J3 and J4 at Elev. L-L see sheet No.3.
For spacing of #5J21, J23 and J24 at Elev. O-O see sheet No.4.

DETAILED NOV. 1989
CHECKED FEB. 1990

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 5 of 7

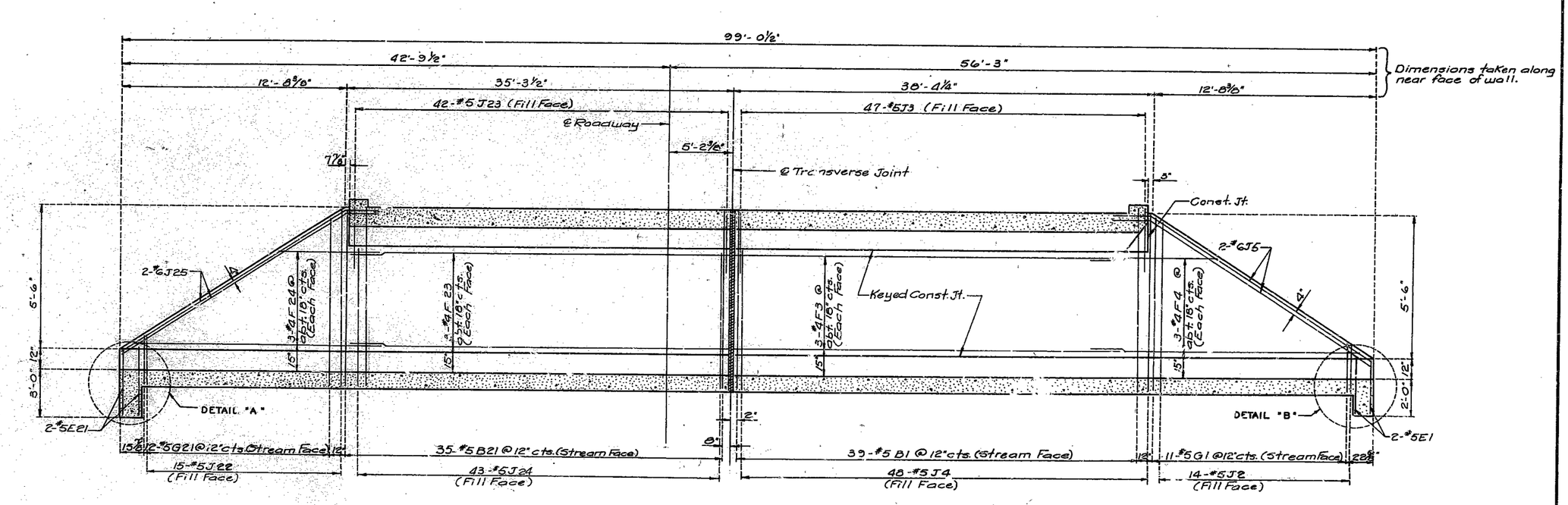
NEWTON COUNTY

A-4961

A-4961

QUALITY REPRO

STATE	PROJ. NO.	SHEET NO.
MO.		36



SECTION Q - Q.
STAGE 2 CONSTRUCTION

SECTION N - N.
STAGE 1 CONSTRUCTION

Note: For location of details "A" and "B" see sheet No. 5.

For Spacing of #5J2, J3 and J4 @ Sect. N-N see sheet No. 3.

For Spacing of #5J22, J23 and J24 @ Sect. Q-Q see sheet No. 4.

DETAILED FEB. 1990
CHECKED MARCH 1990

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 6 of 7

NEWTON COUNTY

A-4961

45 47

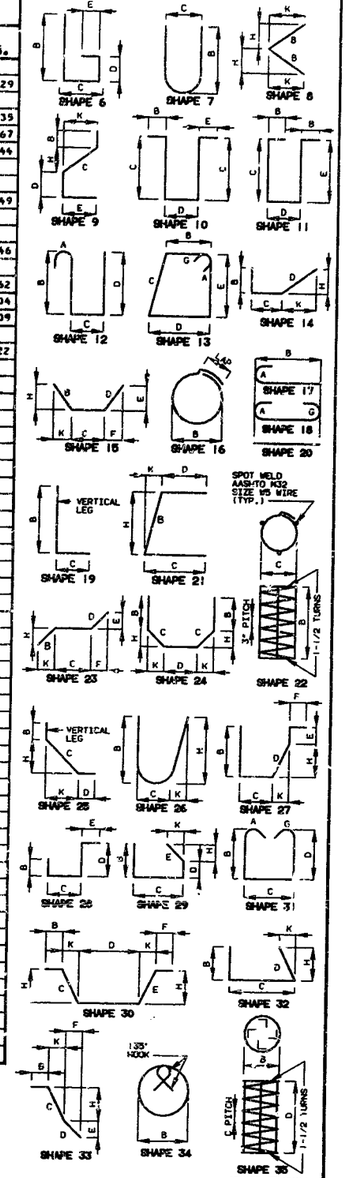
COMPLETE BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO. SIZE MARK	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS B	C	D	E	F	H	K	NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT
									FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	LBS.
		UNIT NO 1																
		SKIP																
54	6A1	TOP SLAB	E	20				51 6.000								51 6	51 6	4177
59	5A2	BOTTOM SLAB		20				51 6.000								51 6	51 6	3169
		SKIP																
234	5B1	WALLS		20				6 11.000								6 11	6 11	1688
2	8D1	HEADWALL	E	20				52 4.000								52 4	52 4	279
6	9D2	HEADWALL	E	20				9 0.000								9 0	9 0	184
5	8D3	HEADWALL	E	20				51 5.000								51 5	51 5	824
16	5E1	CURTAIN WALL		20				2 9.000								2 9	2 9	46
36	4F1	BOTTOM SLAB		20				26 7.000								26 7	26 7	1527
48	4F2	TOP SLAB	E	20				37 7.000								37 7	37 7	1205
24	4F3	WALL		20				35 3.000								35 3	35 3	565
24	4F4	WING		20			V	8 16 8.000								16 8	16 8	
		INCREMENT = 41.500 INCH						9 9.000								9 9	9 9	212
56	5G1	WING		20			V	6 6 11.000								6 11	6 11	
		INCREMENT = 5.250 INCH						2 7.000								2 7	2 7	327
25	6H1	TOP SLAB	E	20				39 2.000								39 2	39 2	1471
48	6H2	TOP SLAB	E	20				8 7.000								8 7	8 7	614
134	5H3	BOTTOM SLAB		20				11 2.000								11 2	11 2	1561
14	5J1	BOT.S & WING		19	S		V	1 21.300	5 4.000							7 1	7 0	
		INCREMENT = 4.250 INCH						6 4.200	5 4.000							11 8	11 7	136
14	5J2	BOT S & WING		19	S		V	1 23.000	5 4.000							7 3	7 2	
		INCREMENT = 4.250 INCH						6 6.000	5 4.000							11 10	11 9	138
96	5J3	TOP S & WALL	E	19	S			4 3.000	5 8.000							9 11	9 10	985
96	5J4	BOT S & WALL		19	S			4 10.000	5 4.000							10 2	10 1	1010
16	6J5	WING		20				17 0.000								17 0	17 0	409
50	4R1	HEADWALL	E	10					10.500	14.750						3 0	2 9	92
50	4R2	HEADWALL	E	27				15.000	10.625	5.875	2 0.375		4.125	4.125		4 8	4 6	150
		UNIT 2																
49	6A21	TOP SLAB	E	20				51 6.000								51 6	51 6	3790
55	5A22	BOTTOM SLAB		20				51 6.000								51 6	51 6	2954
210	5B21	WALLS		20				6 11.000								6 11	6 11	1515
2	8D21	HEADWALL	E	20				52 4.000								52 4	52 4	279
4	9D22	HEADWALL	E	20				9 0.000								9 0	9 0	122
4	8D23	HEADWALL	E	20				51 5.000								51 5	51 5	549
16	5E21	CURTAIN WALL		20				3 9.000								3 9	3 9	63
86	4F21	BOTTOM SLAB		20				24 10.000								24 10	24 10	1427
46	4F22	TOP SLAB	E	20				34 4.000								34 4	34 4	1055
24	4F23	WALLS		20				32 2.000								32 2	32 2	516
24	4F24	WINGS		20			V	8 16 8.000								16 8	16 8	
		INCREMENT = 41.500 INCH						9 9.000								9 9	9 9	212

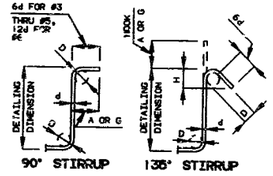
COMPLETE BILL OF REINFORCING STEEL

NO. REQ'D.	MARK NO. SIZE MARK	LOCATION	EPOXY (E)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS B	C	D	E	F	H	K	NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT
									FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	FT. IN.	LBS.
72	5G21	WING		20			V	6 6 9.000								6 9	6 9	
		INCREMENT = 5.125 INCH						2 6.000								2 0	2 0	329
21	6H21	TOP SLAB	E	20				39 2.000								39 2	39 2	1235
44	6H22	TOP SLAB	E	20				8 7.000								8 7	8 7	567
124	5H23	BOTTOM SLAB		20				11 2.000								11 2	11 2	1444
15	5J21	BOT.S & WING		19	S		V	1 21.000	5 4.000							7 1	7 0	
		INCREMENT = 4.250 INCH						6 9.000	5 4.000							12 1	12 0	149
15	5J22	BOT.S & WING		19	S		V	1 19.000	5 4.000							6 11	6 10	
		INCREMENT = 4.250 INCH						5 7.000	5 4.000							11 11	11 10	146
84	5J23	TOP S & WALL	E	19	S			4 3.000	5 8.000							9 11	9 10	862
88	5J24	BOT S & WALL		19	S			4 10.000	5 4.000							10 2	10 1	904
16	6J25	WING		20				17 0.000								17 0	17 0	409
51	4R21	HEADWALL	E	10	S					15.000	14.750					3 9	3 7	122
		END OF BAR LIST																

TWO ADDITIONAL 4F2, 5J3, 8H1, 8D3 & 9D2 ARE INCLUDED IN THE BAR BILL FOR TESTING.

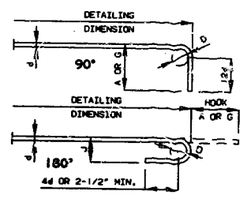


BENDING DIAGRAMS



STIRRUP HOOK DIMENSIONS					
GRADES 40 - 50 - 60 KSI					
BAR SIZE	D (IN.)	90° HOOK		135° HOOK	
		HOOK A OR G	HOOK A OR G	APPROX. H	
#4	2"	4-1/2"	4-1/2"	3"	
#5	2-1/2"	6"	5-1/2"	3-3/4"	
#6	4-1/2"	12"	8"	4-1/2"	

NOTE: UNLESS OTHERWISE NOTED DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR.



END HOOK DIMENSIONS					
BAR SIZE	D (IN.)	ALL GRADES			
		180 HOOKS		90 HOOKS	
		A OR G	J	A OR G	
#3	2-1/4"	5"	3"	6"	
#4	3"	6"	4"	8"	
#5	3-3/4"	7"	5"	10"	
#6	4-1/2"	9"	6"	12"	
#7	5-1/4"	10"	7"	14"	
#8	6"	11"	8"	16"	
#9	9-1/2"	15"	11-3/4"	19"	
#10	10-3/4"	17"	13-1/4"	22"	
#11	12"	19"	14-3/4"	2'-0"	
#14	18-1/4"	2'-3"	21-3/4"	2'-7"	

NOTE:
ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEG. TO BE BENT WITH THE SAME PROCEDURE AS FOR 90 DEG. STD. HOOKS.
HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.
E = EPOXY COATED REINFORCEMENT.
S = STIRRUP.
XX = BAR IS INCLUDED IN SUBSTRUCTURE QUANTITIES.
V = BAR DIMENSIONS VARY IN EQUAL INCREMENTS BETWEEN DIMENSIONS SHOWN ON THIS LINE AND THE FOLLOWING LINE.
NO. EA. = NUMBER OF BARS OF EACH LENGTH.
NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)
ACTUAL LENGTHS ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.
PAYWEIGHTS ARE BASED ON ACTUAL LENGTHS.
FOUR ANGLE OR CHANNEL SPACERS ARE REQUIRED FOR EACH COLUMN SPIRAL. SPACERS ARE TO BE PLACED ON INSIDE OF SPIRALS. LENGTH AND WEIGHT OF COLUMN SPIRALS DO NOT INCLUDE SPLICES OR SPACERS.
REINFORCING STEEL (GRADE 60) = FY 60,000 PSI.

STD 90.8 REVISED JUNE 1990
MAY 1974

DETAILED JUNE 1990
CHECKED JULY 1990

QUALITY HEPAC

Note: This drawing is not to scale. Follow dimensions.

SHEET NO. 37

Sheet No. 7 of 7

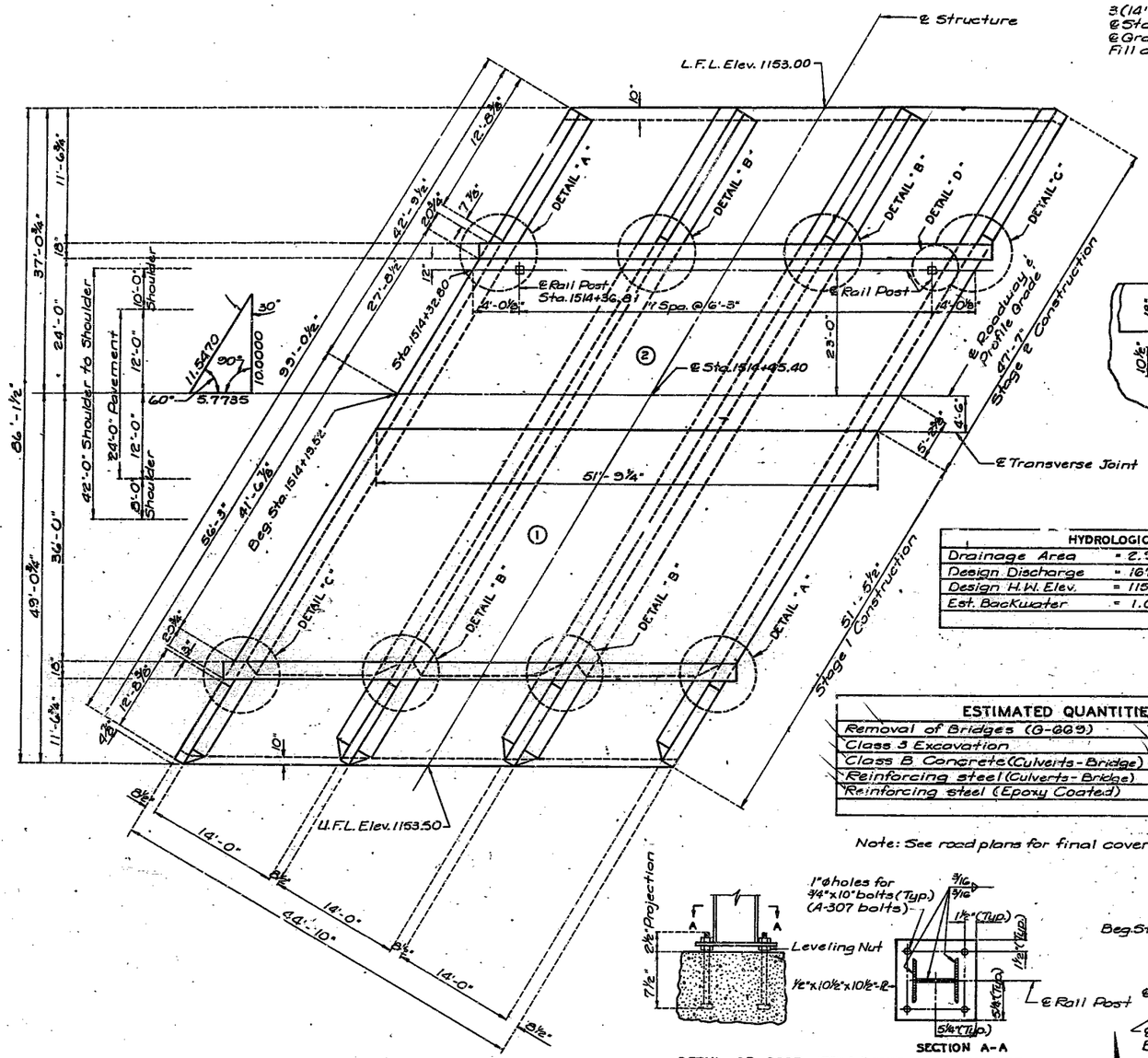
NEWTON COUNTY A-4961

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

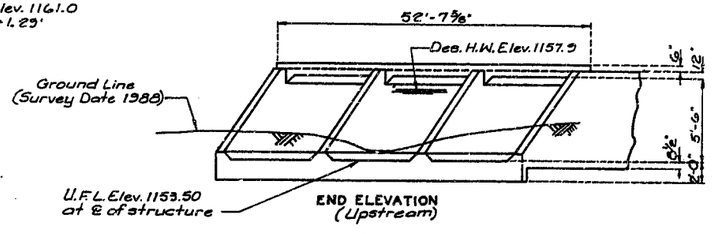
FINAL PLANS

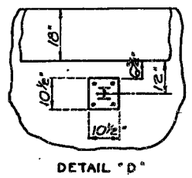
STATE	PROJ NO	SHEET NO.
MO.	F-BHF-60-1(10)	3 A
SEC/SUB 4 & 33	TWP 25 & 26 N. RGE 30 W	

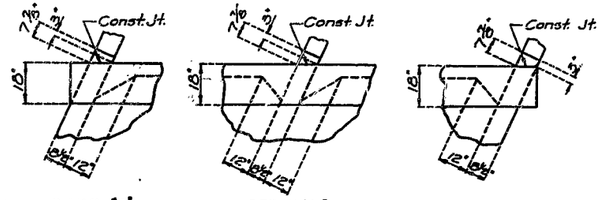
3(14' x 5'-6") Concrete Box Culvert
℄ Sta. 1514+45.40
℄ Grade Elev. 1161.0
Fill at ℄ = 1.29'



PLAN







Note: Bevel Haunches required on upstream end only.

HYDROLOGIC DATA		
Drainage Area	= 2.9 Sq. Miles (Rolling)	
Design Discharge	= 1670 cfs.	(100 Years)
Design H.W. Elev.	= 1157.9	(100 Years)
Est. Backwater	= 1.0' ft.	

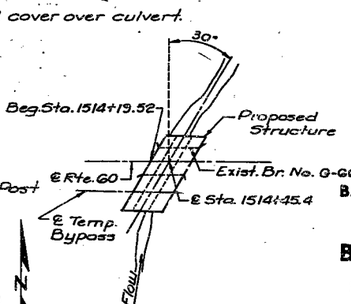
ESTIMATED QUANTITIES			FINAL QUANTITIES
Removal of Bridges (G-669)	Each		1
Class 3 Excavation	Cu. Yd.		287
Class B Concrete (Culverts - Bridge)	Cu. Yd.		317.8
Reinforcing steel (Culverts - Bridge)	Lbs.		20860
Reinforcing steel (Epoxy Coated)	Lbs.		18570

Note: See road plans for final cover over culvert.

DETAIL OF POST ATTACHMENT TO CULVERT

SECTION A-A

Note: Cost of furnishing and installing anchor bolts and leveling nuts for guard rail posts shall be included in price bid for other items.
Guard rail and guard rail posts assembly shall be furnished and paid for as Roadway Item.
All anchor bolts and leveling nuts shall be galvanized after fabrication in accordance with Sec. 712.



LOCATION SKETCH

GENERAL NOTES:

Design Specifications:
A.A.S.H.T.O. 1989 Load Factor Design.

Design Loading:
HS 20-44, Earth 120#/Cu.Ft.
Equivalent Fluid Pressure 45#/Cu.Ft.

Design Unit Stresses:
Class B Concrete f'_c = 3,000 psi.
Reinforcing Steel (Grade 60) f_y = 60,000 psi.

Reinforcing Steel:
Minimum clearance to reinforcing steel shall be 1½" unless otherwise shown. Lap #4 Longitudinal Bars a minimum of 22" at splices.

Traffic Maintained:
Two way traffic over existing structure and on temporary by-pass over proposed structure to be maintained during stage construction.

For Excavation see Special Provisions.

B.M. #36 (U.S.G.S. Datum) Elev. 1160.19 X on ctr. W. Hdwll. Culv. Under Side Road No. 4th 43.5' L.T. Sta. 15+12+38.

BRIDGE OVER CULP CREEK BRANCH

STATE ROAD FROM NEOSHO TO MONETT

ABOUT 1 MILE EAST OF GRANBY

PROJECT NO. F-BHF-60-1(10) STA. 1514 + 19.52

JOB NO. 7P 361-60 RTE. 60

NEWTON COUNTY

DATE 10/4/90

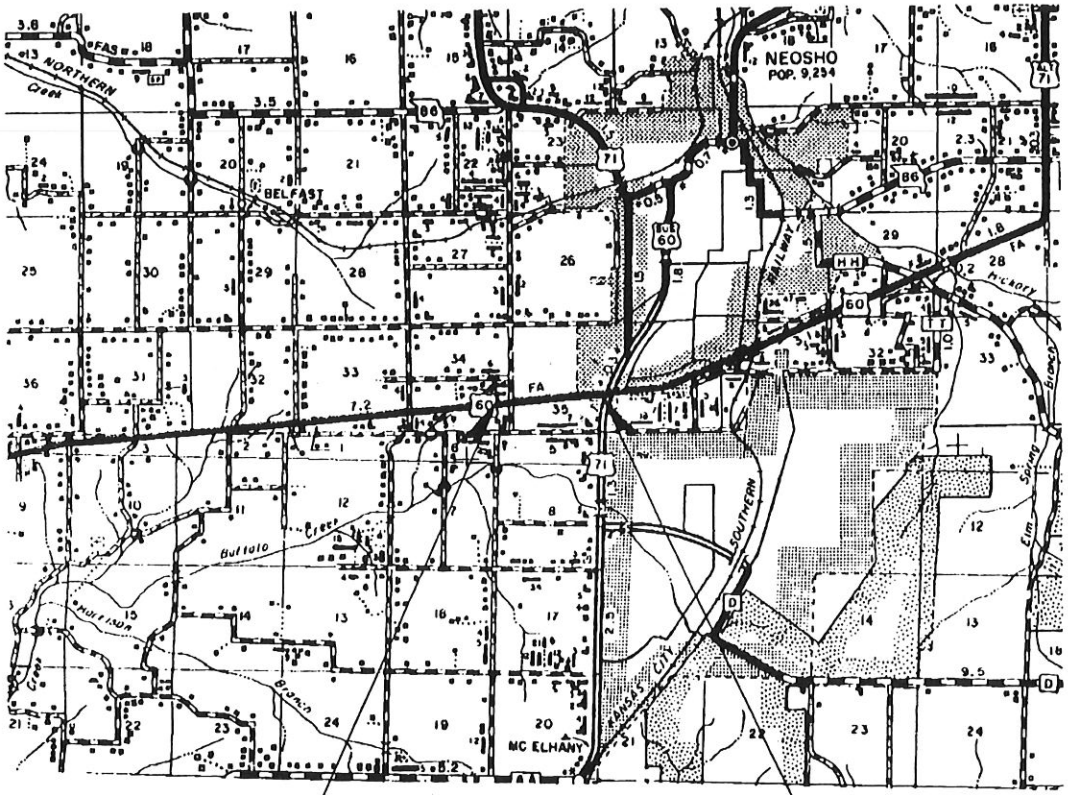
STD. 606.00
STD. 706.35
A-4961

DESIGNED SEPT. 1989
DETAILED NOV. 1989
CHECKED FEB. 1990

Note: This drawing is not to scale. Follow dimensions.

Sheet No. 1A of 7

42 429



Rte. 60 - 100mm (4") Ultra-Thin Concrete Whitetopping,
50mm(2") Type IC Asph. Conc. Shldr. &
50mm(2") Cold Milling

1.829km (1.137mi.)

LOCATION MAP

STATE OF MISSOURI
DOUGLAS A. JACKSON
E-23225
REGISTERED PROFESSIONAL ENGINEER

9-28-98

(1)

COUNTY	NEWTON
ROUTE	60
JOB NO.	J7P0683
PROJECT	

LENGTH OF PROJECT
ROUTE 60
NEWTON COUNTY

	METRIC	ENGLISH
END OF PROJECT	Sta. 20+354.626	Sta. 667+80.27
BEGINNING OF PROJECT	Sta. 18+526.091	Sta. 607+81.14
APPARENT LENGTH	1828.535m	6999.1′
EQUATIONS AND EXCEPTIONS	Sta. 18+526.091 Bk. = Sta. 18+525.707 Ahd.	Sta. 607+81.14 Bk. = Sta. 607+79.88 Ahd.
TOTAL CORRECTION	0.384m	1.3′
NET LENGTH	1828.919m	6000.4′
STATE AND FEDERAL LENGTH	1.829 km	1.14mi.

NOTE:
Any work on the plans that extends beyond the project limits is considered incidental to and part of the constuction of this project.

STATE OF MISSOURI
DOUGLAS A. JACKSON
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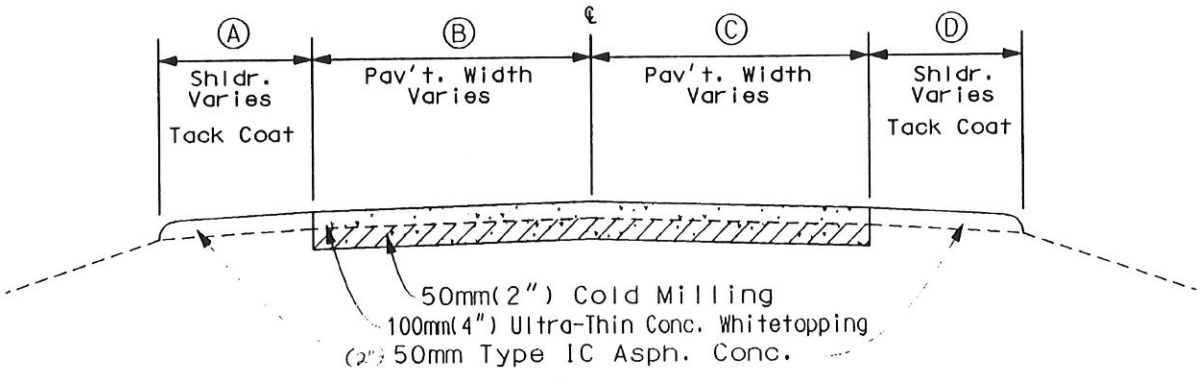
9-24-98

COUNTY	NEWTON
ROUTE	60
JOB NO.	J7P0683
PROJECT	



TYPICAL SECTION

Sta. 18+525.707 to Sta. 20+151.699

Sta. 18+525.707 to 19+790.216
- A 3.048m(10')
- B 3.658m(12')
- C 3.658m(12')
- D 3.048m(10')

Sta. 19+790.216 to 19+991.384
- A Varies from 3.048m(10') to 2.438m(8')
- B Varies from 3.658m(12') to 5.486m(18')
- C Varies from 3.658m(12') to 4.877m(16')
- D Varies from 3.048m(10') to 2.438m(8')

Sta. 19+991.384 to Sta. 20+049.296
- A 2.438m(8')
- B Varies from 5.486m(18') to 7.010m(23')
- C Varies from 4.877m(16') to 9.754m(32')
- D Varies from 2.438m(8') to 0.610m(2')

Sta. 20+049.296 to Sta. 20+114.829
- A 2.438m(8')
- B 7.010m(23')
- C 9.754m(32')
- D 0.610m(2')

Sta. 20+114.829 to Sta. 20+151.699
- A *
- B 7.010m(23')
- C 7.010m(23')
- D *

* See Special Sheet 1 of 3 for Pavement Taper of Lusk Drive

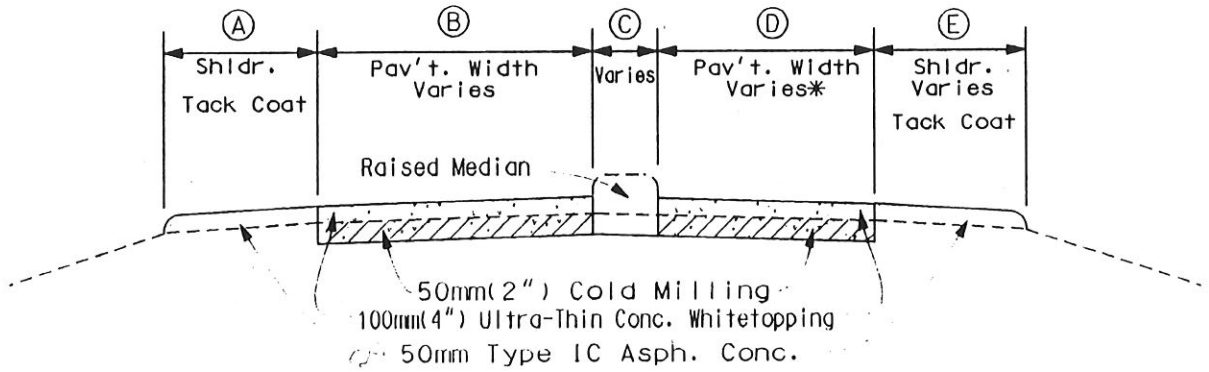
NOTE: See Typical Sheet 3 of 4 for Depth Transition at Beginning of Project.

STATE OF MISSOURI
DOUGLAS A. JACKSON
E-23225
REGISTERED PROFESSIONAL ENGINEER

9-28-98

Sheet 1 of 4

COUNTY	NEWTON
ROUTE	60
JOB NO.	J7P0683
PROJECT	



TYPICAL SECTION

Sta. 20+151.699 to Sta. 20+354.626

Sta. 20+151.699 to Sta. 20+172.954
- A *
- B 7.010m(23')
- C 1.219m(4')
- D 7.010m(23')
- E *

Sta. 20+172.954 to Sta. 20+219.201
- A 0.610m(2')
- B 10.668m(35')
- C 1.219m(4')
- D 4.572m(15')
- E 1.829m(6')

Sta. 20+219.201 to Sta. 20+293.015
- A 0.610m(2')
- B Varies from 10.668m(35') to 7.620m(25')
- C Varies from 1.219m(4') to 4.267m (14')
- D Varies from 4.572m(15') to 10.363m(34')
- E 1.524m(5')

Sta. 20+293.015 to Sta. 20+354.626
- A 0.610m(2')
- B 7.620m(25')
- C 1.219m(4')
- D 10.363m(34')
- E 1.524m(5')-See Typical Sheet 4 of 4 for Depth Transition

* See Special Sheet 1 of 3 for Pavement Taper of Lusk Drive

NOTE: See Typical Sheet 4 of 4 for Depth Transition at End of Project.

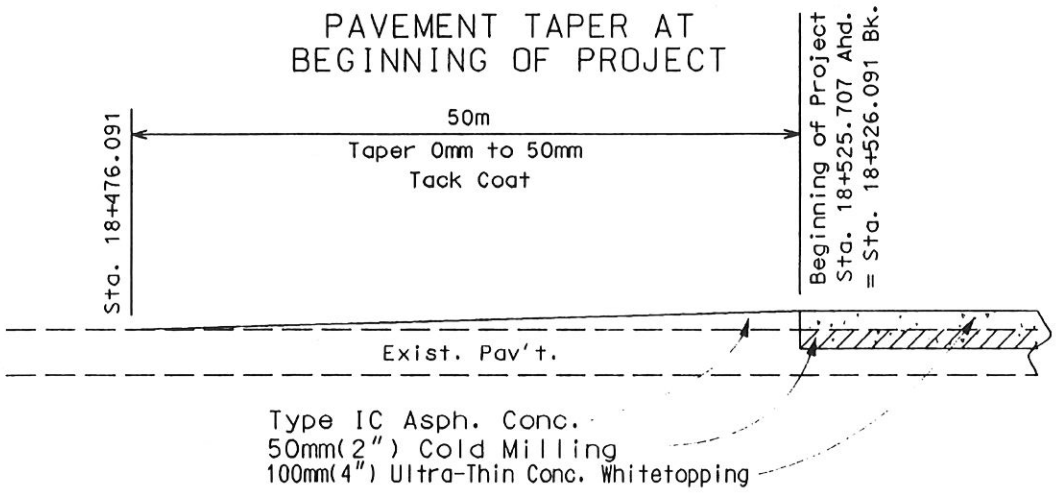
STATE OF MISSOURI
DOUGLAS A. JACKSON
E-23225
REGISTERED PROFESSIONAL ENGINEER

9-28-98

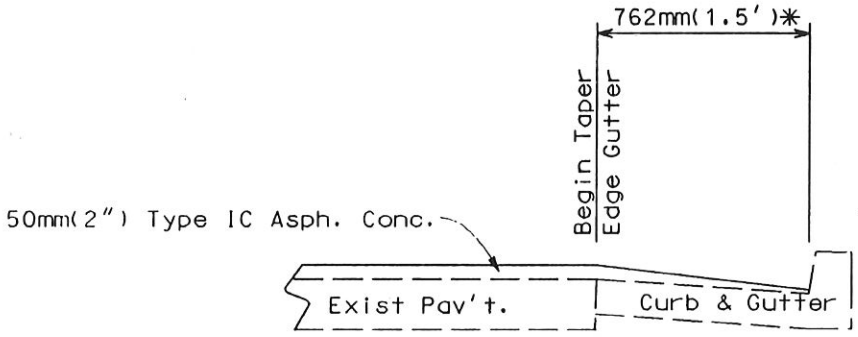
Sheet 2 of 4

COUNTY	NEWTON
ROUTE	60
JOB NO.	J7P0683
PROJECT	

PAVEMENT TAPER AT BEGINNING OF PROJECT



GUTTER PAVING DETAIL AT LUSK DRIVE



* Trans. 50mm(2") Type IC to 13mm($\frac{1}{2}$") at Curb.

STATE OF MISSOURI
DOUGLAS A. JACKSON
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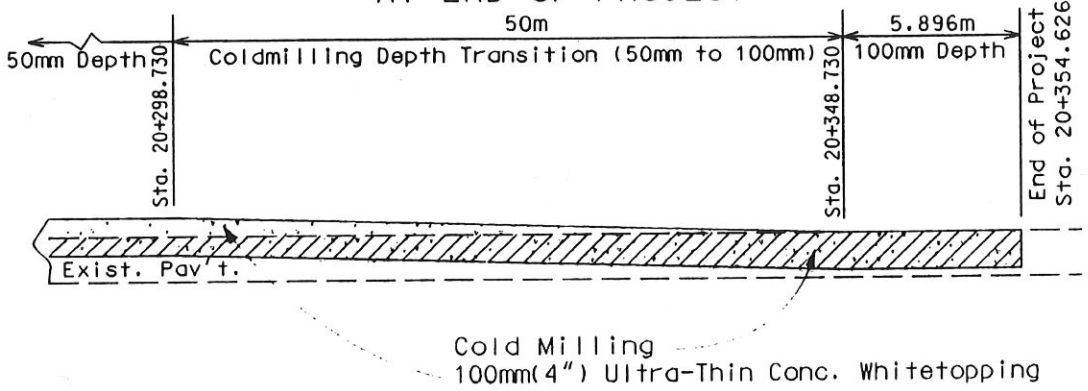
REGISTERED PROFESSIONAL ENGINEER

9-28-98

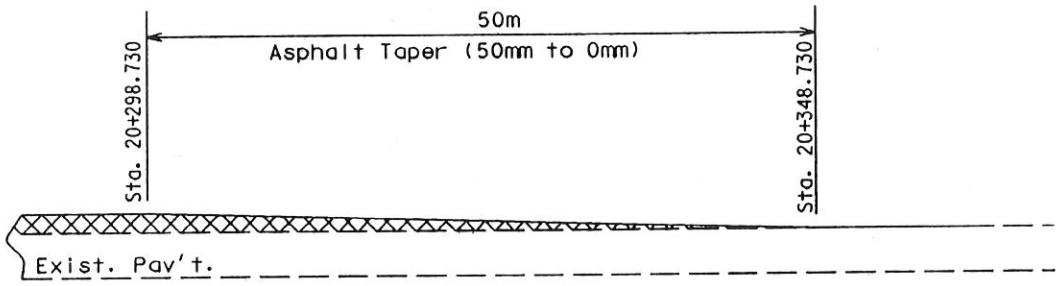
Sheet 3 of 4

COUNTY	NEWTON
ROUTE	60
JOB NO.	J7P0683
PROJECT	

COLD MILLING TRANSITION AT END OF PROJECT



DEPTH TRANSITION OF SHOULDERS AT END OF PROJECT



STATE OF MISSOURI
DOUGLAS A. JACKSON
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9-28-98

Sheet 4 of 4

COUNTY	NEWTON
ROUTE	60
JOB NO.	J7P0683
PROJECT	

(6)

DESIGN DESIGNATION

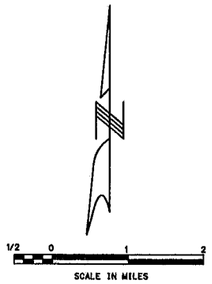
PEAK HOUR – 2006 = 566
PEAK HOUR – 2028 = 919
D.H.V. = N/A
T = N/A
V = 60 M.P.H.
DDT = 54%
FUNCTIONAL CLASSIFICATION – ARTERIAL

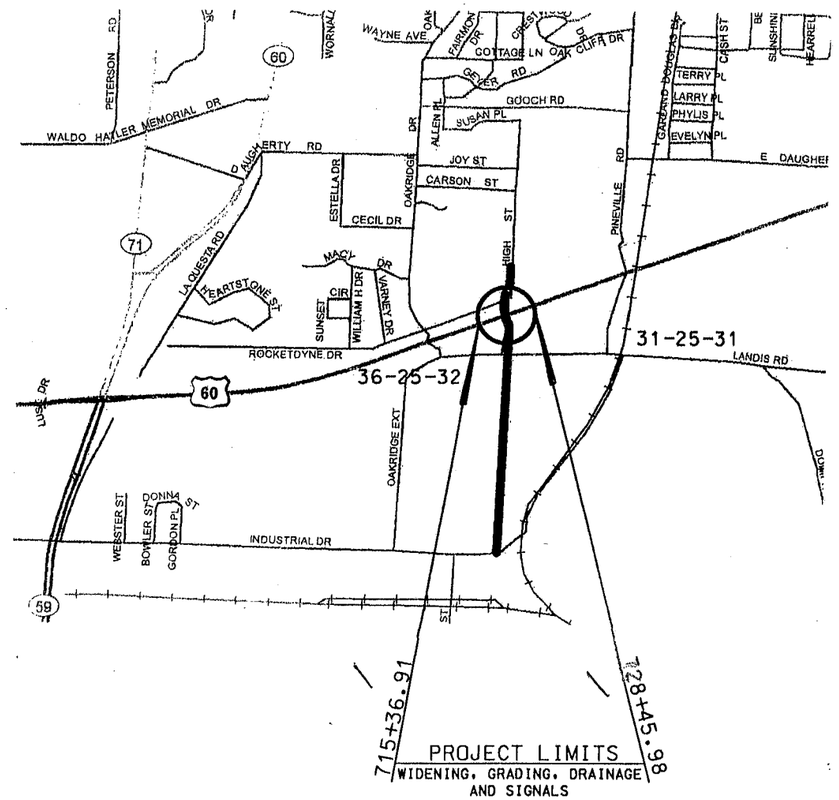
CONVENTIONAL SYMBOLS
(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	—FO—	—FO—
OVERHEAD TELEPHONE	—O—	—O—
UNDERGROUND TELEPHONE	—T—	—T—
OVERHEAD POWER	—□—	—■—
UNDERGROUND POWER	—P—	—P—
GAS	—G—	—G—
WATER	—W—	—W—
MANHOLE	SAN	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
DROP INLET		
DITCH BLOCK		
GROUND MOUNTED SIGN	SIGN	
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL	TELE	
FENCE		
CHAIN LINK	—V—	
WOVEN WIRE	—X—	
GATE POST		
BENCHMARK	BM	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
FINAL PLANS FOR
STATE HIGHWAY 60
NEWTON COUNTY





ROUTE	STATE	DISTRICT	SHEET NO.
60	MO	7	1

JOB NO. J7P0849
CONTRACT ID. 090220-701
PROJECT NO.
COUNTY NEWTON
DATE

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (03 SHEETS)	2
QUANTITIES (QU) (01 SHEETS)	3 & 10
PLAN-PROFILE (PP)	4-8
RIGHT OF WAY (RW)	
REFERENCE POINTS (RP)	
COORDINATE POINTS (CP)	
SPECIAL SHEETS (SS)	
TRAFFIC CONTROL SHEETS (TC)	9-10
EROSION CONTROL SHEETS (EC)	
LIGHTING (LT)	
SIGNALS (SG)	12-17
SIGNING (SN)	18
PAVEMENT MARKING (PM)	18
CULVERT SECTIONS (CS)	19
CROSS SECTIONS (XS)	2-6, 11-14
Summary of Quantities	2A

FINAL PLANS

LENGTH OF PROJECT

BEGINNING OF PROJECT STA. 715+36.91
END OF PROJECT STA. 728+45.98

APPARENT LENGTH 1309.07 FEET

EQUATIONS AND EXCEPTIONS: NONE

TOTAL CORRECTIONS 0.00 FEET
NET LENGTH OF PROJECT 1309.07 FEET
STATE LENGTH 0.25 MILES

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REV.

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ROUTE	STATE	DISTRICT	SHEET NO.
60	MO	7	2

JOB NO. J7P0849

CONTRACT ID. 090220-701

PROJECT NO.

COUNTY NEWTON

DATE

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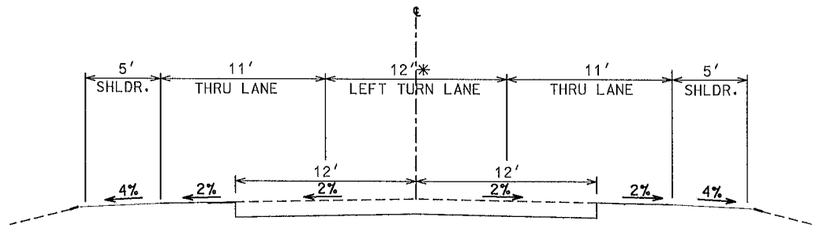
FINAL PLANS

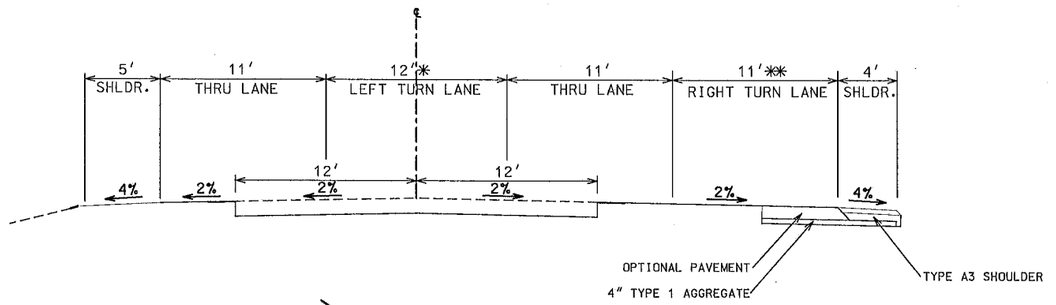
*TRANSITION FROM 0′ AT STA. 715+36.91
TO 12′ AT STA. 718+11.84

*TRANSITION FROM 12′ AT STA.725+71.20
TO 0′ AT STA. 728+45.98

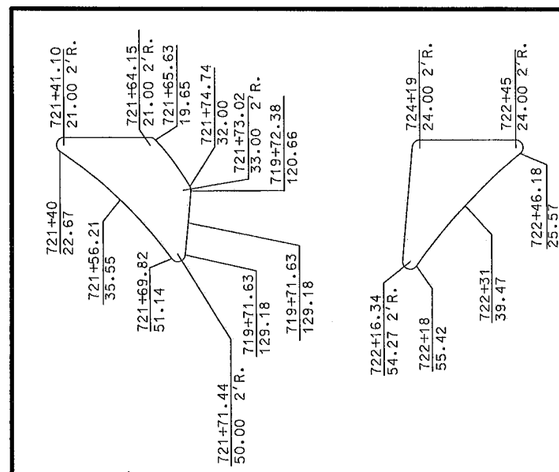


ROUTE 60
STA. 715+50.00 TO STA. 728+45.98

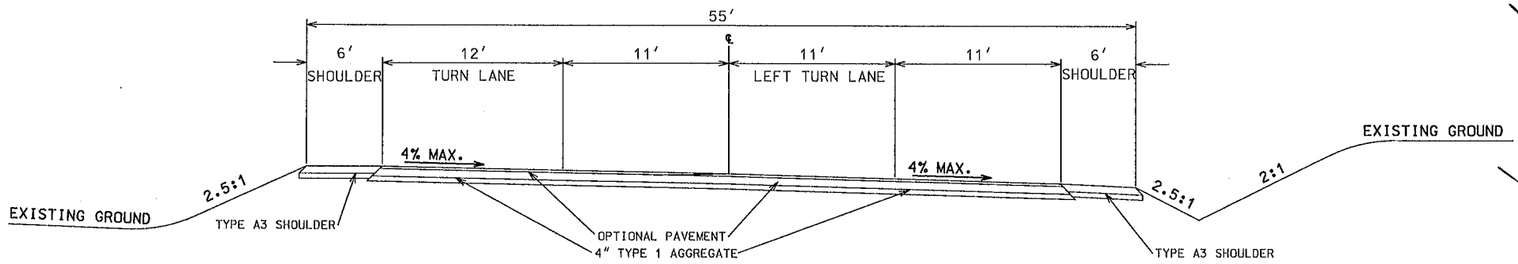
** TRANSITION FROM 0′ AT 718+72.50
TO 11′ AT 719+27.50



ROUTE 60
STA. 718+72.50 TO STA. 722+82.16



8" CONCRETE MEDIAN STRIP DETAILS



HOWARD BUSH DRIVE
STA. 10+22.05 TO STA. 11+68.80

OPTIONAL PAVEMENT
ROUTE 60 – 8" NON-REINFORCED CONCRETE
ROUTE 60 SHLDRS – TYPE A3 SHOULDER (SEE TYPICAL SECTION SHEET 3 OF 3 FOR DETAILS)

HOWARD BUSH DR – 8" NON-REINFORCED CONCRETE
HOWARD BUSH SHLDRS – TYPE A3 SHOULDER (SEE TYPICAL SECTION SHEET 3 OF 3 FOR DETAILS)

TYPICAL SECTIONS

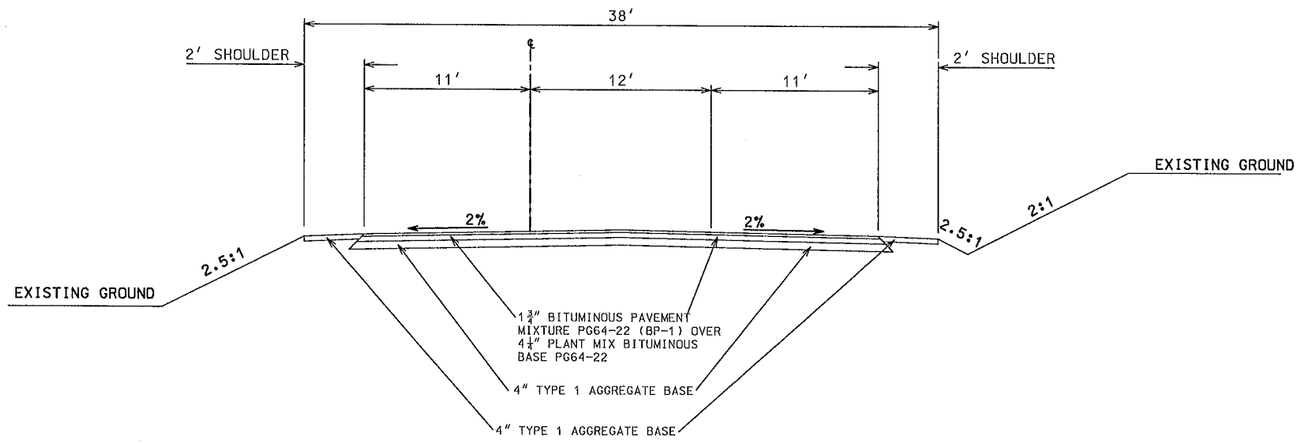
ROUTE 60 & HOWARD BUSH DRIVE

SHEET 1 OF 3

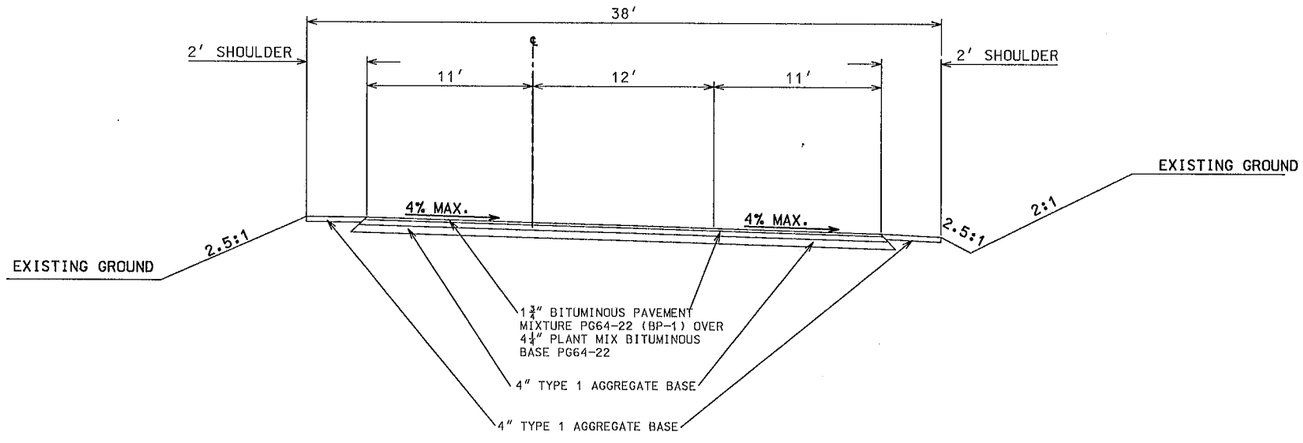
REV.

TSE TRI-STATE ENGINEERING	ROUTE	STATE	DISTRICT	SHEET NO.
P.O. BOX 1667 JOPLIN, MO 64802 PH: (417) 781-0640 www.TRISTATE-ENGINEERING.com	60	MO	7	2
	JOB NO. J7P0849			
	CONTRACT ID. 090220-701			
	PROJECT NO.			
	COUNTY NEWTON			DATE

FINAL PLANS



HIGH STREET
STA. 9+50.00 TO STA. 9+77.9



HIGH STREET
STA. 8+65.65 TO STA. 9+50.00

TYPICAL SECTIONS

HIGH STREET

SHEET 2 OF 3

REV.

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ROUTE	STATE	DISTRICT	SHEET NO.
60	MO	7	2

JOB NO. J7P0849

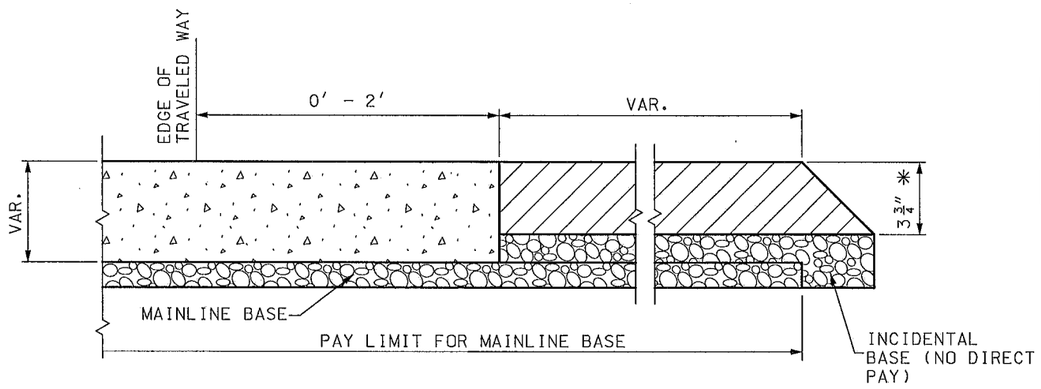
CONTRACT ID. 090220-701

PROJECT NO.

COUNTY NEWTON

DATE

FINAL PLANS



PCC (PORTLAND CEMENT CONCRETE)

HMA (HOT MIX ASPHALT)

BASE

OPTION 3
PCC PAVEMENT

* USE 3¾" BP-1 UNLESS OTHERWISE SPECIFIED ON THE PLANS.

GENERAL NOTE:

THE QUANTITY FOR ADDITIONAL BASE MATERIAL RESULTING FROM THE VARIABLE THICKNESS, MATERIAL OR CONSTRUCTION METHOD OF TYPE A3 SHOULDER WILL BE CONSIDERED INCIDENTIAL AND INCLUDED IN THE PAY ITEM FOR THE MAINLINE BASE.

TYPICAL SECTIONS
TYPE A3 SHOULDER
SHEET 3 OF 3

SUMMARY OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY
*	ROADWAY ITEMS - J7P0849		
201-30.00	CLEARING AND GRUBBING	ACRE	1.0
202-20.10	REMOVAL OF IMPROVEMENTS	LS	1
203-10.00	CLASS A EXCAVATION	CUYD	8660
203-60.00	COMPACTING EMBANKMENT	CUYD	219
206-30.00	CLASS 3 EXCAVATION	CUYD	86
207-10.00	LINEAR GRADING CLASS 1	STA	15.7
304-01.43	TYPE 1 AGGREGATE FOR BASE (4 IN. THICK)	SQYD	2467
401-01.51	TYPE A3 SHOULDER	SQYD	514.3
401-12.09	BITUMINOUS PAVEMENT MIXTURE PG64-22, (BP-1)	TONS	50.9
401-30.00	BITUMINOUS PAVEMENT MIXTURE PG64-22 (BASE)	TONS	108.9
401-99.05	MISC. OPTIONAL PAVEMENT	SQYD	1559.0
401-99.10	MISC. BP-1 WEDGE SHOULDER PAVEMENT	TONS	0
606-10.40	GUARDRAIL TYPE D	LF	18
608-30.08	8 IN. CONCRETE MEDIAN STRIP	SQYD	109.6
616-10.05	CONSTRUCTION SIGNS	SQFT	330
616-10.10	RELOCATED SIGNS	SQFT	0
616-10.25	CHANNELIZER (TRIM LINE)	EA	84
616-10.40	FLASHING ARROW PANEL	EA	0
618-10.00	MOBILIZATION	LS	1
620-51.30	TYPE 2 PREFORMED MARKING TAPE (GROOVED), LEFT/RIGHT ARROW	EA	10
620-59.08	24 IN. WHITE HIGH BUILD ACRYLIC WATERBORNE PAVEMENT MARKING	LF	98
	PAINT (HASH BARS)		
620-59.09	24 IN. YELLOW HIGH BUILD ACRYLIC WATERBORNE PAVEMENT MARKING	LF	161
	PAINT (HASH BARS)		
620-59.22	6 IN. WHITE WET REFLECTIVE HIGH BUILD ACRYLIC WATERBORNE	LF	0
	PAVEMENT MARKING PAINT		
620-59.23	6 IN. YELLOW WET REFLECTIVE HIGH BUILD ACRYLIC WATERBORNE	LF	0
	PAVEMENT MARKING PAINT		
620-70.01	PAVEMENT MARKING REMOVAL	LF	4983
622-10.01	COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING	SQYD	0
	(3 IN. THICK OR LESS)		
725-03.15A	15 IN. PIPE GROUP B	LF	100
726-99.03	MISC. 19 IN. X 30 IN. ELLIPTICAL	LF	82
805-10.00A	SEEDING - COOL SEASON MIXTURES	ACRE	2.4
806-10.16	SEDIMENT REMOVAL	CUYD	5
806-10.19	SILT FENCE	LF	67
806-10.21	TYPE I DITCH CHECK	EA	7
902-31.30	POST, TYPE CL, 30 FT. ARM OR 9.1 M ARM	EA	4
903-50.15	TYPE IV OBJECT MARKER	EA	4
910-83.02	CABLE, 12 AWG, 2 CONDUCTOR	LF	1040
910-83.07	CABLE, 12 AWG, 7 CONDUCTOR	LF	1780
616-11.33	INSTALLING 'POINT OF PRESENCE' SIGN CONTINGENT ITEM 5001	EA	2
620-59.02	6 IN. WHITE HIGH BUILD ACRYLIC WATERBORNE PAVEMENT MARKING	LF	4125
	PAINT CONTINGENT ITEM 5008		

ITEM	DESCRIPTION	UNIT	QUANTITY
620-59.01	4 IN. YELLOW HIGH BUILD ACRYLIC WATERBORNE PAVEMENT MARKING	LF	6088
	PAINT CONTINGENT ITEM 5009		
*	HIGHWAY LIGHTING ITEMS - J7P0849		
901-10.30	LIGHTING POLE, 30 FT. OR 9.0 M, TYPE AT	EA	2
901-11.12	BRACKET ARM, 12 FT. OR 3.6 M	EA	2
901-11.15	BRACKET ARM, 15 FT. OR 4.6 M	EA	4
901-13.00	LUMINAIRE, 150 WATT HIGH PRESSURE SODIUM	EA	6
901-30.02	CONDUIT, 2 IN. RIGID, IN TRENCH	LF	42
901-30.04	CONDUIT, 4 IN. RIGID, IN TRENCH	LF	539
901-40.04	CONDUIT, 4 IN. RIGID, PUSHED	LF	45
901-72.06	WIRE, 6 AWG, BARE NEUTRAL	LF	810
*	TRAFFIC SIGNAL ITEMS - J7P0849		
902-05.13	SIGNAL HEAD, TYPE 3B	EA	8
902-05.15	SIGNAL HEAD, TYPE 5B	EA	2
902-42.83	CONTROLLER ASSEMBLY HOUSING, NEMA TS2 CONTROLLER	EA	1
902-81.00	CABLE, 10 AWG 1 CONDUCTOR, POLE AND BRACKET	LF	530
902-82.06	CABLE, 6 AWG 1 CONDUCTOR, POWER	LF	80
902-86.20	POWER SUPPLY ASSEMBLY, TYPE 2	EA	1
902-88.11	PULL BOX, PREFORMED CLASS 2	EA	3
902-88.12	PULL BOX, PREFORMED CLASS 3	EA	2
902-88.16	PULL BOX, PREFORMED CLASS 5	EA	1
902-91.00	BASE, CONCRETE	CUYD	16.3
902-99.02	MISC. OPTIONAL TRAFFIC SIGNAL DETECTORS	EA	8
*	HIGHWAY SIGNING ITEMS - J7P0849		
903-12.70A	PERFORATED SQUARE STEEL TUBE POST, 2 IN., 12 GA.	LF	30
903-12.71	PERFORATED SQUARE STEEL TUBE POST ANCHOR	LF	5
903-50.04	TYPE SHR2L-1 SIGN	SQFT	47
903-50.66	SIGNAL SIGN, TYPE SHR2L-3	SQFT	50

THESE PLANS ACCURATELY DEPICT THE CONFIGURATION AND LOCATION OF THE ROADWAY AND ALL APPURTENANCE FEATURES, INCLUDING MODIFICATIONS DESIGNATED OR AUTHORIZED BY THE ENGINEER OF RECORD.

RESIDENT ENGINEER _____

DATE 12/9/09

REV. AUGUST 2008

SHEET 1 OF 1

FINAL PLANS

STATE OF MISSOURI
STEVEN V. CAMPBELL
NUMBER E-2001004569
REGISTERED PROFESSIONAL ENGINEER
12-10-09

FINAL PLANS

I certify that this plan sheet accurately depicts the configuration and location of the roadway and all its appurtenant features, to the best of my knowledge, as I and my staff have observed the contractor's construction of this project. I specifically disclaim any responsibility for the design of this project, except as I and my staff may have modified or authorized the modification of the project design during its construction; and I disclaim responsibility for the contractor's actual construction of the project, except as I and my staff may have directed or ordered that the project be constructed.

Signature _____ Date 12-10-09

PROJ. ACCEPT: 10/14/2009
PREPARED BY: BRET TAYLOR
CHECKED BY: Kevin Durbin
REVIEWED BY: 12-10-09
DIST. OFFICE:
SUPPORT CTR:

DATE PREPARED 12/10/2009
ROUTE 60 | STATE MO
DISTRICT 07 | SHEET NO. 2A
COUNTY NEWTON
JOB NO. J7P0849
CONTRACT ID. 090220-701
PROJECT NO.
BRIDGE NO.

NO.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

FINAL PLANS

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P.O. BOX 1667
JOPLIN, MO 64802
PH (417) 781-0643
www.TRISTATE-ENGINEERING.com

ROUTE	STATE	DISTRICT	SHEET NO.
60	MO	7	3

JOB NO. J7P0849

CONTRACT ID. 090220-701

PROJECT NO.

COUNTY NEWTON

DATE

MOBILIZATION
TOTAL = 1 LUMP SUM

CLEARING AND GRUBBING
TOTAL = 1.0 ACRE

OPTIONAL SIGNAL DETECTION
TOTAL = 8 EACH

REMOVAL OF IMPROVEMENTS
TOTAL = 1 LUMP SUM

COLDMILLING BIT PAVMT (3" THICK OR LESS)
TOTAL = 0 SQ YD

GUARDRAIL, TYPE D

SHEET	STATION	ALIGNMENT	LOCATION	GUARDRAIL TYPE D (LF)	REMARKS
5	9 + 04	HIGH STREET	RT	18	
			TOTAL =	18	

COOL SEASON MIXTURE-PERMANENT SEEDING
TOTAL = 2.4 ACRE

LINEAR GRADING
TOTAL = 15.7 STA
SEE EXCAVATION SUMMARY

8 IN CONCRETE MEDIAN STRIP

SHEET	STATION	ALIGNMENT	LOCATION	8" CONCRETE MEDIAN STRIP (SQ YD)	REMARKS
5	10 + 30	HOWARD BUSH	LT	45.5	
5	10 + 35	HOWARD BUSH	RT	64.1	
			TOTAL =	109.6	

EARTHWORK

CLASS A EXCAVATION (CU YD)	COMPACTING EMBANKMENT (CU YD)
TOTAL 8660 CY	TOTAL 219 CY

SEE EXCAVATION SUMMARY

ASPHALT PAVEMENT QUANTITIES

BITUMINOUS PAVEMENT MIXTURE PG64-22, (BP-1)	BITUMINOUS PAVEMENT MIXTURE PG64-22, (BASE)	MISC, BP-1 WEDGE SHOULDER PAVEMENT
TOTAL = 50.9 TON	TOTAL = 108.9 TON	TOTAL = 0 TON

SEE ASPHALT ROADWAY REPORTS*

REINFORCED CONCRETE PIPE CULVERTS

SHEET	STATION	ALIGNMENT	15" CL III RCP (LIN FT)	19" X 30" HE RCP (LIN FT)	CLASS 3 EXC (CU YD)	REMARKS
5	9 + 66	HIGH STREET	100			
5	11 + 00	HOWARD BUSH		82	86	HORZ ELLIP
		TOTAL =	100	82	86	

SIGNING

LOCATION	NO OUTLET (W14-2) 36" X 36"	OBJECT MARKER (OM4-3) 18"X18"	YIELD (R1-2) 60" X 60"	DO NOT ENTER (R5-1) 30" X 30"	SHR2L-1 SQ. FT.	PSST POST (LIN FT)	PSST POST ANCHOR (LIN FT)
ROCKETDYNE RD - 250' E/O OAK RIDGE DR	1				9.0	10.0	1
ROCKETDYNE RD - AT END OF PAVEMENT		4					
FREE RIGHT ONTO HOWARD BUSH DR			1	1	19.0	10.0	1
FREE RIGHT ONTO HWY 60			1	1	19.0	10.0	1
TOTAL		4			47	30	3

PAVEMENT

SHEET	STATION	ALIGNMENT	LOCATION	OPTIONAL PAVEMENT MAIN LINE (SQ YD)	TYPE A3 OPTIONAL SHOULDER* (SQ YD)	TYPE 1 AGGREGATE 4" THICK (SQ YD)
5	8+65.32 - 9+88.00	HIGH STREET	LT			282
5	8+65.32 - 9+88.00	HIGH STREET	RT			262
5	10+28.08 - 11+68.80	HOWARD BUSH	LT	509.2	44.0	554
5	10+28.08 - 11+68.80	HOWARD BUSH	RT	623.8	49.9	673
4 - 5	718+72.50 - 722+82.16	HWY 60	RT	426.0	420.4	696
			TOTAL =	1559.0	514.3	2467

PAVEMENT MARKINGS

LOCATION (STA TO STA)	6" WHITE HIGH BUILD ACRYLIC CONT ITEM 5008 (LIN FT)	4" YELLOW HIGH BUILD ACRYLIC CONT ITEM 5009 (LIN FT)	6" WHITE WET REFLECTIVE HIGH BUILD ACRYLIC (LIN FT)	6" YELLOW WET REFLECTIVE HIGH BUILD ACRYLIC (LIN FT)	24" YELLOW (HASH BAR) (LIN FT)	24" WHITE (STOP BAR) (LIN FT)	LEFT ARROW (WHITE) (EACH)	RIGHT ARROW (WHITE) (EACH)	COMMENTS
715+40 TO 718+12		1088'			65'				2 DOUBLE YELLOW LINES
719+12							1	1	
718+12 TO 721+12		600'							DOUBLE YELLOW LINES
719+12 TO 721+27	400'								LANE LINES, 6' RT & 18' RT
720+37							1	1	
721+12						12'			
721+32						12'			
715+37 TO 721+32	1190'								EDGELINES LT & RT
721+22 TO 721+79	175'								STRIPING AROUND ISLAND
722+18 TO 722+57	165'								STRIPING AROUND ISLAND
722+66 TO 728+46	1160'								EDGELINES LT & RT
722+66						24'			
723+41							1		
722+66 TO 724+26	200'								1 LANE LINE
722+66 TO 725+66		600'							DOUBLE YELLOW LINES
724+66							1		
725+66 TO 728+46		1120'			45'				2 DOUBLE YELLOW LINES
5+39 TO 8+39		1200'			28'				2 DOUBLE YELLOW LINES
8+39							1		
8+39 TO 9+39		200'							DOUBLE YELLOW LINES
8+39 TO 9+59	120'								1 LANE LINE
9+39						11'			
9+59						15'			
10+60						12'			
10+80						12'			
10+60 TO 11+80	240'								LANE LINES, 6' LT & 18' LT
10+80 TO 12+80		400'							DOUBLE YELLOW LINES
11+55							1	1	
12+80							1		
12+80 TO 15+00		880'			23'				2 DOUBLE YELLOW LINES
10+20 TO 12+35	475'								EDGELINES LT & RT
TOTALS	4125'	6088'	0	0	161'	98'	7	3	
USE	4125'	6088'	0	0	161	98'	10		

PAVEMENT MARKING REMOVAL

STATION	ALIGNMENT	DESCRIPTION	QUANTITY (LIN FT)	REMARKS
715+00 - 728+36	RTE 60 LT & RT	YELLOW STRIPING	2732	
727+10 - 715+80	RTE 60 LT & RT	WHITE STRIPING	2251	
		TOTAL =	4983	

TEMPORARY EROSION CONTROL

DITCH CHECKS (EACH)	SILT FENCE (LIN FT)	SEDIMENT REMOVAL (CU YD)
TOTAL = 7 EA	TOTAL = 67 LIN FT	TOTAL = 5 CU YD

SUMMARY SHEET

REV.

SCALE
0 20 40 60

NOTE:
ANY WORK INDICATED ON THE PLANS
THAT EXTENDS BEYOND THE PROJECT
LIMITS IS CONSIDERED INCIDENTAL TO
AND A PART OF THE CONSTRUCTION OF THE PROJECT

FINAL PLANS

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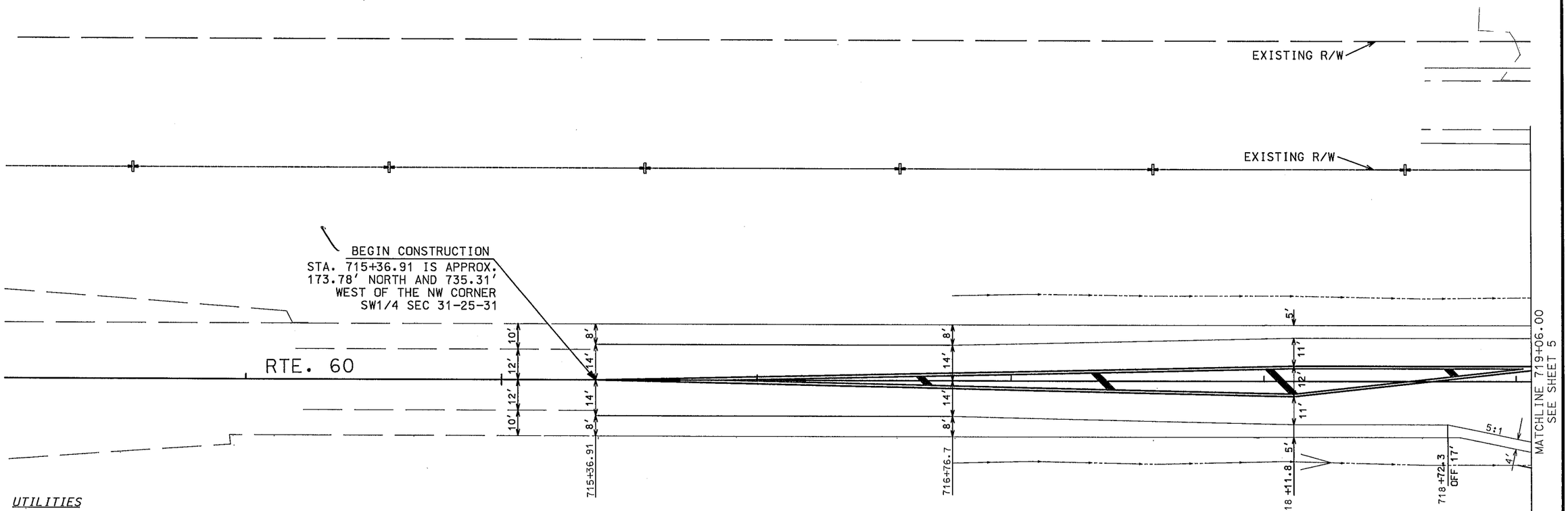
PH (417) 781-0643
www.TRISTATE-ENGINEERING.com

ROUTE	STATE	DISTRICT	SHEET NO.
60	MO	7	4

JOB NO. J7P0849
CONTRACT ID. 090220-701
PROJECT NO.
COUNTY NEWTON
DATE



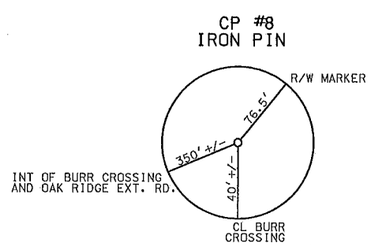
UTILITIES

ELECTRIC:
CHRIS BAKER
EMPIRE DIST ELECTRIC CO.
1503 INDUSTRIAL DRIVE
NEOSHO, MO 64850
417-625-6157

GAS:
JIM ROTH
MISSOURI GAS ENERGY
520 E. 5TH STREET
JOPLIN, MO 64801
417-626-4838

TELEPHONE:
REED HARPER
AT&T
321 W. 8TH STREET
JOPLIN, MO 64801
417-625-8024

WATER & SEWER:
MIKE HIGHTOWER
CITY OF NEOSHO
203 E. MARKET STREET
NEOSHO, MO 64850
417-451-8050 EXT. 239



STA. 714+88.06 ROUTE 60
OFF: 226.09' RT
N= 20319.08
E= 20639.94
EL= 1216.91

COORDINATE POINT LIST
INDEPENDENT COORDINATE SYSTEM

SHEET	STATION[1]	LOCATION	OFFSET[1]	NORTHING	EASTING	DESCRIPTION
4	715+36.91	RTE. 60	0'	20540.702	20573.679	BEGIN PROJECT
5	722+06.03	RTE. 60	0'	20863.448	21159.815	INTERSECTION OF RTE. 60, HIGH ST, AND HOWARD BUSH DR.
6	728+45.98	RTE. 60	0'	21172.127	21720.402	END PROJECT

1 GROUND DISTANCE IN FEET



REV.

BUILT UNDER PROJ J702164

ROUTE	STATE	DISTRICT	SHEET NO.
60	MO	7	5

JOB NO. J7P0849

CONTRACT ID. 090220-701

PROJECT NO.

COUNTY NEWTON

DATE

FINAL PLANS

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CERTIFIED LAND CORNER

STA. 722+06.03 RTE. 60
A BEARING OF S16°42'33"E
518.47' TO THE NW CORNER
SW1/4 SEC 31-25-31

CITY OF NEOSHO
HIGH STREET
CONNECTION

+27.86
127.80

STA. 8+65.32
BEGIN
CONST.

CITY OF NEOSHO
HIGH STREET
CONNECTION

+84.62
135.00'

TOLL CABLE SIGN

SEC. 36 TWP. 25 RNG. 32
SEC. 31 TWP. 25 RNG. 31

+45.00
83.00'

EXISTING R/W

CURVE C2
PI 8+10.77
PRC 6+73.24
PT 9+25.00
Δ 57° 16' 28.5" (LT)
D 22° 45' 00.0"
L 251.76'
T 137.53'
R 251.85'

EXISTING R/W

+85.00
83.00

TYPE 4
OBJECT MARKERS

11' 12' 11'

TYPE D
GUARDRAIL

720

S.L.

EXISTING R/W

9+39.00
721+86.03
OFF 58.25

PT STA 9+25.00 S.L.
722+24.83
OFF 65.75

TOLL CABLE SIGN

725

EXISTING R/W

9+59.03

STA.9+66
15" X 100'
GROUP B PIPE

R 45

R 45

722+51.89
OFF 22.00

STA. 722+06.03 (HWY 60)
STA. 10+00.00 (HOWARD BUSH/ HIGH ST.)

721+58.97
OFF 22.00

722+66

S.L.

MATCHLINE 719+06.00
SEE SHEET 4

5' 11' 12' 11' 1'

+11.8

RTE. 60

11' 11' 11'

721+11.8

721+31.8

719+27.4
OFF 32'

720+67.4

720+77.5
OFF 34'

4' 6'

24'

8" CONC.
MEDIAN STRIP

85°

95°

S 23° 50' 15" E

8" CONC.
MEDIAN STRIP

PC STA 10+39.29

10+60.73
OFF 11.00

24'

10

5'

10+38.19

10+33.19
OFF 23.00

724+71

S.L.

MATCHLINE 725+06.00
SEE SHEET 6

10+80.73
OFF 12.00

R 90

S.L.

R 120

SW¼ NW¼
31-25-31

CP #20
60D SPIKE

SOUTH EOP
EXIST RTE 60

68'+/-

262.6'

R/W MARKER

522.2'

R/W MARKER

CP #2
IRON PIN

CL EXIST.
HIGH STREET

R/W MARKER

28'+/-

20.3'

50'+/-

NORTH EOP
ROUTE 60

STA.11+00
19" X 30" HERCP

12' 11'

SE¼ NE¼
36-25-32

11+20.75
OFF 118.18

S.L.

CURVE CURHB1
PI 11+80.32
PC 10+39.29
PT 13+19.34
Δ 16° 48' 10.6" (RT)
D 6° 00' 00.0"
L 280.05'
T 141.04'
R 954.93'

SCALE
0 20 40 60

STA. 722+83.07 ROUTE 60
OFF: 71.95' LT
N= 20963.64
E= 21192.60
EL= 1204.07

STA.11+68.80
END CONST.

11' 11'

6'

HOWARD BUSH DR.

STA. 720+51.72 ROUTE 60
OFF: 81.28' RT
N= 20717.81
E= 21063.85
EL= 1216.33

EXISTING R/W

MODOT
J7P0849

MODOT
J7P0849

EXISTING R/W

CITY OF NEOSHO
HOWARD BUSH
DRIVE CONNECTION

BUILT UNDER PROJ J702164

CITY OF NEOSHO
HOWARD BUSH
DRIVE CONNECTION

REV.

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ROUTE	STATE	DISTRICT	SHEET NO.
60	MO	7	6

JOB NO. J7P0849

CONTRACT ID. 090220-701

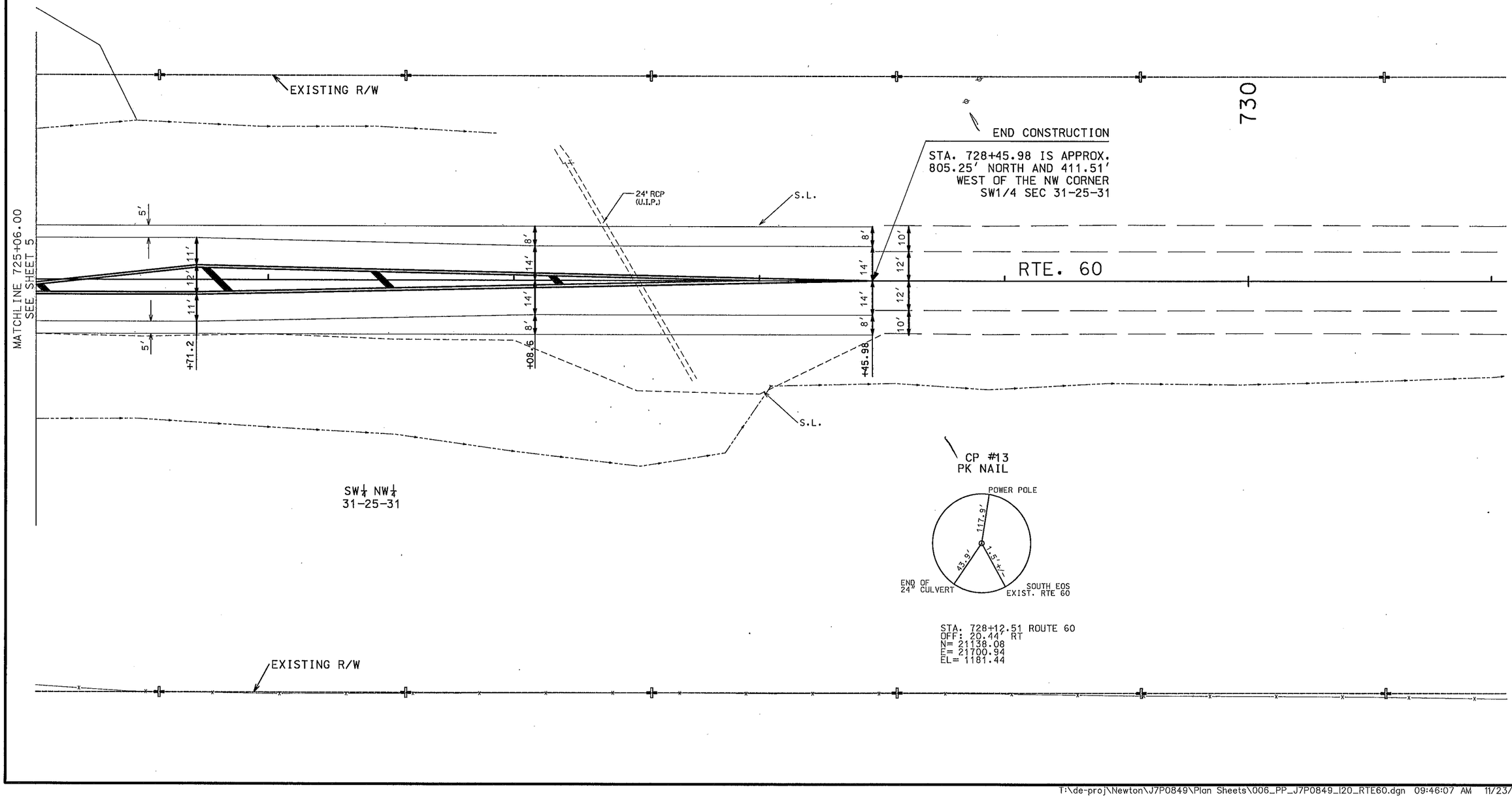
PROJECT NO.

COUNTY NEWTON

DATE

FINAL PLANS

SCALE
0 20 40 60



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ROUTE	STATE	DISTRICT	SHEET NO.
60	MO	7	7

JOB NO. J7P0849

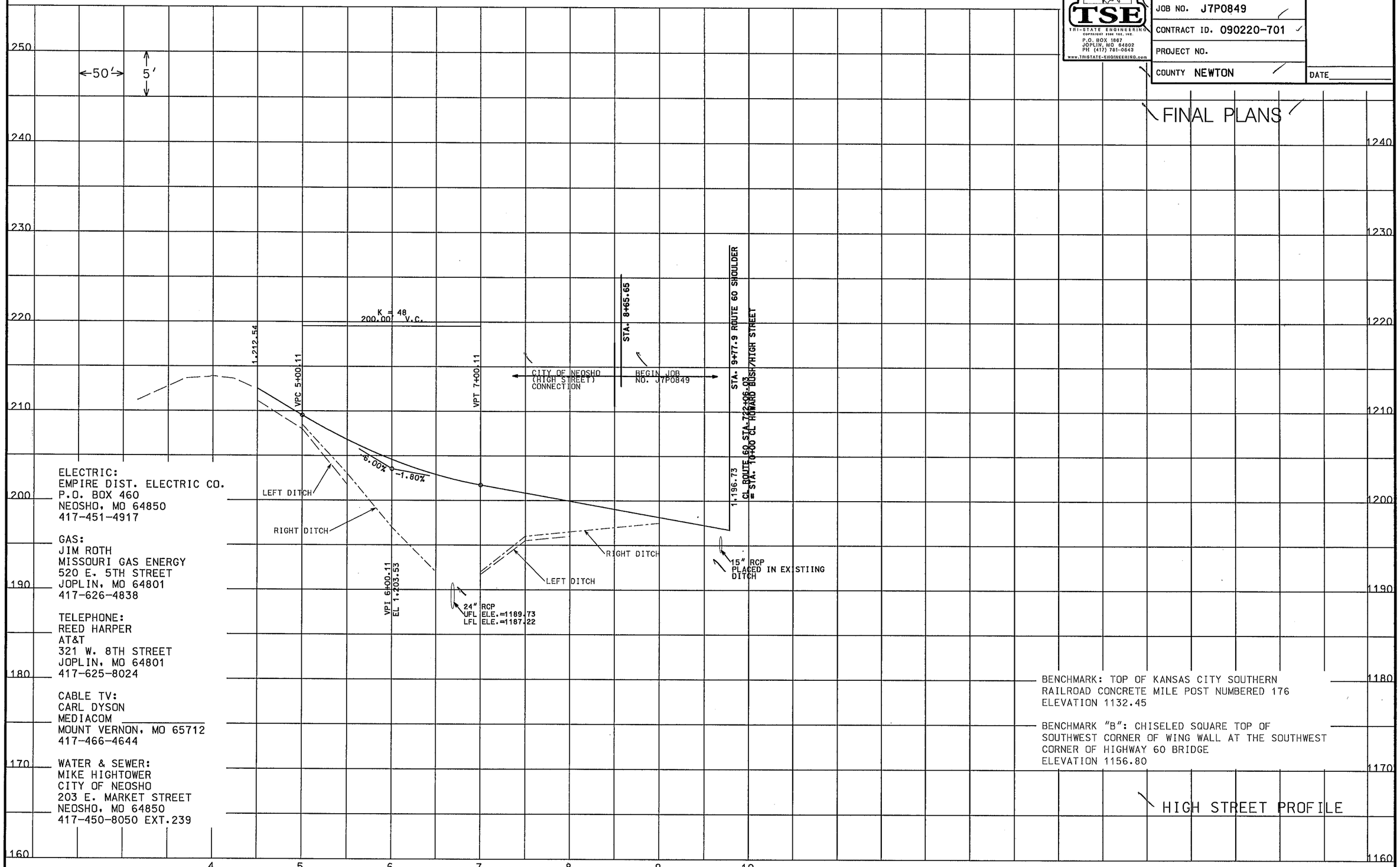
CONTRACT ID. 090220-701

PROJECT NO.

COUNTY NEWTON

DATE

FINAL PLANS



ELECTRIC:
EMPIRE DIST. ELECTRIC CO.
P.O. BOX 460
NEOSHO, MO 64850
417-451-4917

GAS:
JIM ROTH
MISSOURI GAS ENERGY
520 E. 5TH STREET
JOPLIN, MO 64801
417-626-4838

TELEPHONE:
REED HARPER
AT&T
321 W. 8TH STREET
JOPLIN, MO 64801
417-625-8024

CABLE TV:
CARL DYSON
MEDIACOM
MOUNT VERNON, MO 65712
417-466-4644

WATER & SEWER:
MIKE HIGHTOWER
CITY OF NEOSHO
203 E. MARKET STREET
NEOSHO, MO 64850
417-450-8050 EXT.239

BENCHMARK: TOP OF KANSAS CITY SOUTHERN RAILROAD CONCRETE MILE POST NUMBERED 176
ELEVATION 1132.45

BENCHMARK "B": CHISELED SQUARE TOP OF SOUTHWEST CORNER OF WING WALL AT THE SOUTHWEST CORNER OF HIGHWAY 60 BRIDGE
ELEVATION 1156.80

HIGH STREET PROFILE

REV.

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ROUTE	STATE	DISTRICT	SHEET NO.
HB	MO	7	8

JOB NO. J7P0849
CONTRACT ID. 090220-701
PROJECT NO.
COUNTY NEWTON
DATE

FINAL PLANS

50'
5'

STA. 10+22.05
ROUTE 60 SHOULDER

END J7P0849 STA. 11+68.80

CITY OF NEOSHO
(HOWARD BUSH DRIVE)
CONNECTION

VPI 13+00.00
EL 1205.03

+3.00%
-3.23%

1196.71

15" RCP
PLACED IN EXISTIING
DITCH

VPC 11+20.00

LEFT DITCH

RIGHT DITCH

SSD = 277'
K = 58
360.00' V.C.

VPT 14+80.00

VPC 14+89.44

STA. 15+16.80
BURR CROSSING

K = 111
580.00' V.C.

LEFT DITCH

-3.23%
+2.01%

VPI 17+75.44
EL 1189.55

RIGHT DITCH

LEFT DITCH

VPT 20+69.44

VPC 22+35.00

VPI 23+50.00
EL 1201.00

+2.01%
-1.14%

SSD = 326'
K = 73
230.00' V.C.

BENCHMARK: TOP OF KANSAS CITY SOUTHERN RAILROAD CONCRETE MILE POST NUMBERED 176
ELEVATION 1132.45

BENCHMARK "B": CHISELED SQUARE TOP OF SOUTHWEST CORNER OF WING WALL AT THE SOUTHWEST CORNER OF HIGHWAY 60 BRIDGE
ELEVATION 1156.80

HOWARD BUSH DR. PROFILE

1240 1230 1220 1210 1200 1190 1180 1170 1160 1150

10 11 12 13 14 15 16 17 18 19 20 21 22 23 24

REV.

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SUMMARY OF QUANTITIES

FINAL PLANS

SIGN	SIZE (IN.)	AREA (SQ. FT.)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION
				WARNING SIGNS			
W01-1L	48X48	16.00					TURN (SYMBOL LEFT ARROW)
W01-1R	48X48	16.00					TURN (SYMBOL RIGHT ARROW)
W01-2L	48X48	16.00					CURVE (SYMBOL LEFT ARROW)
W01-2R	48X48	16.00					CURVE (SYMBOL RIGHT ARROW)
W01-3L	48X48	16.00					REVERSE TURN (SYMBOL LEFT ARROW)
W01-3R	48X48	16.00					REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4L	48X48	16.00					REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4R	48X48	16.00					REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4bL	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
W01-4bR	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
W01-4cL	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
W01-4cR	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
W01-6	48X24	8.00					HORIZONTAL ARROW (SYMBOL)
W01-6a	72X36	18.00					HORIZONTAL ARROW (SYMBOL ON BARRICADE)
W01-7	48X24	8.00					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	72X36	18.00					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL ON BARRICADE)
W01-8	18X24	3.00					CHEVRON (SYMBOL)
W01-8a	36X48	12.00					CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
W03-1a	48X48	16.00					STOP AHEAD (SYMBOL)
W03-2a	48X48	16.00					YIELD AHEAD (SYMBOL)
W03-3	48X48	16.00					SIGNAL AHEAD (SYMBOL)
W03-5	48X48	16.00	2	32			SPEED LIMIT 30 AHEAD (SYMBOL)
W04-1L	48X48	16.00					MERGE (SYMBOL FROM LEFT)
W04-1R	48X48	16.00					MERGE (SYMBOL FROM RIGHT)
W05-1	48X48	16.00					ROAD/BRIDGE/RAMP NARROWS
W05-3	48X48	16.00					ONE LANE BRIDGE
W05-5	48X48	16.00					NARROW LANES
W06-1	48X48	16.00					DIVIDED HIGHWAY (SYMBOL)
W06-2	48X48	16.00					DIVIDED HIGHWAY END (SYMBOL)
W06-3	48X48	16.00					TWO WAY TRAFFIC (SYMBOL)
W07-3a	24X18	3.00					NEXT XX MILES (PLAQUE)
W08-1	48X48	16.00					BUMP
W08-2	48X48	16.00					DIP
W08-3	48X48	16.00					PAVEMENT ENDS
W08-4	48X48	16.00					SOFT SHOULDER
W08-5	48X48	16.00					SLIPPERY WHEN WET (SYMBOL)
W08-6	48X48	16.00					TRUCK CROSSING
W08-6a	48X48	16.00					TRUCK ENTRANCE
W08-7	36X36	9.00					LOOSE GRAVEL
W08-9	48X48	16.00					LOW SHOULDER
W08-9a	48X48	16.00					SHOULDER DROP-OFF
W08-11	48X48	16.00					UNEVEN LANES
W08-12	36X36	9.00					NO CENTER STRIPE
W10-1	42 RND.	9.62					RAILROAD CROSSING
W012-1	24X24	4.00					DOUBLE DOWN ARROW (SYMBOL)
W012-2	48X48	16.00					LOW CLEARANCE (SYMBOL)
W012-2x	24X18	3.00					LOW CLEARANCE (PLAQUE)
W012-3a,b	144X24	24.00					OVERHEAD LOW CLEARANCE (FEET AND INCHES)
SPECIAL	120X60	50.00					LOW CLEARANCE XX FT XX IN XX MILES AHEAD
SPECIAL	120X60	50.00					WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
W013-1	24X24	4.00					ADVISORY SPEED (PLAQUE)
W016-2a	24X18	3.00					500 FEET/1000 FEET (PLAQUE)
W020-1	48X48	16.00	9	144			ROAD/BRIDGE/RAMP WORK AHEAD
W020-2	48X48	16.00					DETOUR AHEAD
W020-3	48X48	16.00					ROAD CLOSED AHEAD
W020-4	48X48	16.00					ONE LANE ROAD AHEAD
W020-5	48X48	16.00	2	32			RIGHT/CENTER/LEFT LANE CLOSED AHEAD
W020-5a	48X48	16.00					RIGHT/CENTER/LEFT TWO LANES CLOSED AHEAD
W020-6a	48X48	16.00	2	32			RIGHT/CENTER/LEFT LANE CLOSED
W020-7a	48X48	16.00	2	32			FLAGGER (SYMBOL)
W021-2	48X48	16.00					FRESH OIL
W021-5b	48X48	16.00					SHOULDER WORK AHEAD
W022-1	48X48	16.00					BLASTING ZONE AHEAD
W022-2	42X36	10.50					TURN OFF 2-WAY RADIO AND PHONE
W022-3	42X36	10.50					END BLASTING ZONE
W022-6a	21X15	2.19					WET PAINT (ARROW PIVOTS)

SIGN	SIZE (IN.)	AREA (SQ. FT.)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION
				GUIDE SIGNS			
E05-1	60X48	20.00					GORE EXIT
G020-1	60X24	10.00					ROAD WORK NEXT XX MILES
G020-2	48X24	8.00	2	16			END ROAD WORK
G020-4	36X18	4.50					PILOT CAR FOLLOW ME
G023-1	36X12	3.00	2	6			WORK ZONE (PLAQUE)
M04-1	24X12	2.00					ALTERNATE (PLAQUE)
M04-8	24X12	2.00					DETOUR (PLAQUE)
M04-8a	24X18	3.00					END DETOUR
M04-9L	48X36	12.00					DETOUR (LEFT ARROW)
M04-9R	48X36	12.00					DETOUR (RIGHT ARROW)
M04-10L	48X18	6.00					DETOUR (ARROW LEFT)
M04-10R	48X18	6.00					DETOUR (ARROW RIGHT)
M5-1L	21X15	2.19					ADVANCE LEFT TURN ARROW
M5-1R	21X15	2.19					ADVANCE RIGHT TURN ARROW
M6-1	21X15	2.19					TURN ARROW
M6-3	21X15	2.19					STRAIGHT ARROW
				REGULATORY SIGNS			
R1-1	48X48	13.25					STOP
R1-2	48 TRI.	6.93					YIELD
R1-2a	36X36	9.00					TO ONCOMING TRAFFIC (PLAQUE)
R1-3	20X9	1.25					4/3-WAY (PLAQUE)
R2-1	36X48	12.00	2	24			SPEED LIMIT 30
R2-5a	36X48	12.00					REDUCED SPEED AHEAD
R3-1	48X48	16.00					NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00					NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00					NO TURNS
R3-4	48X48	16.00					NO U-TURN (SYMBOL)
R3-7L	30X30	6.25					LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25					RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00					DO NOT PASS
R4-2	36X48	12.00					PASS WITH CARE
R4-7aL	36X48	12.00					KEEP LEFT (HORIZONTAL ARROW)
R4-7a	36X48	12.00					KEEP RIGHT (HORIZONTAL ARROW)
R5-1	30X30	6.25					DO NOT ENTER
R5-1a	36X24	6.00					WRONG WAY
R6-1L	48X18	6.00					ONE WAY ARROW (LEFT)
R6-1R	48X18	6.00					ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00					ONE WAY (LEFT)
R6-2R	24X30	5.00					ONE WAY (RIGHT)
R10-6	24X36	6.00					STOP HERE ON RED (45° ARROW)
R11-2	48X30	10.00					ROAD CLOSED
R11-3a	60X30	12.50					ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50					ROAD CLOSED TO THRU TRAFFIC
S4-4	36X15	3.75					WHEN FLASHING
CONST-3A	60X48	20.00					FINE SIGN
CONST-3X	57X9	---					SPEEDING/PASSING (PLATE)
				MISCELLANEOUS SIGNS			
OM1-1	18X18	2.25					OBJECT MARKER (YELLOW W/ BUTTONS)
OM1-3	18X18	2.25					OBJECT MARKER (YELLOW)
SPECIAL	48 x 36	12.00	1	12			"PROGRESS AS PROMISED"
616-10.05 CONSTRUCTION SIGNS TOTAL				330			
616-10.10 RELOCATED SIGNS TOTAL						0	

ITEM NUMBER	TOTAL QTY	DESCRIPTION
612-20.08		IMPACT ATTENUATOR (8 SAND BARRELS)
612-20.09		IMPACT ATTENUATOR (9 SAND BARRELS)
612-20.10		IMPACT ATTENUATOR (10 SAND BARRELS)
612-20.12		IMPACT ATTENUATOR (12 SAND BARRELS)
612-20.14		IMPACT ATTENUATOR (14 SAND BARRELS)
612-20.17		IMPACT ATTENUATOR (17 SAND BARRELS)
612-20.19		IMPACT ATTENUATOR (19 SAND BARRELS)
612-20.20		REPLACEMENT SAND BARREL
612-20.30		IMPACT ATTENUATOR ARRAY (RELOCATION)
612-30.00		TRUCK MOUNTED ATTENUATOR (TMA)
616-10.20		CHANNELIZER (DRUM-LIKE)
616-10.25	84	CHANNELIZER (TRIM-LINE)
616-10.30		TYPE III MOVEABLE BARRICADE
616-10.33		DIRECTION INDICATOR BARRICADE
616-10.34		DIRECTION INDICATOR BARRICADE, WITH LIGHT
616-10.40	0	FLASHING ARROW PANEL
616-10.47		TYPE III OBJECT MARKER
616-10.51		WARNING LIGHT, TYPE A
616-10.52		WARNING LIGHT, TYPE B
616-10.53		WARNING LIGHT, TYPE C
616-10.54		STROBE LIGHT
616-10.70		TUBULAR MARKER
616-10.95		RADAR SPEED ADVISORY SYSTEM
616-10.96		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
616-10.98		CHANGEABLE MESSAGE SIGN, CONTRACTOR FURNISHED/RETAINED
616-11.00		CHANGEABLE MESSAGE SIGN, CONTRACTOR FURNISHED/COMMISSION RETAINED
616-11.20		INSTALLING "DRIVE SMART", 48 IN. X 48 IN. SIGN
616-11.33	2	INSTALLING "POINT OF PRESENCE" SIGN CONT ITEM 5001
617-36.00C		CONTRACTOR FURNISHED/RETAINED TEMPORARY CONCRETE TRAFFIC BARRIER, TYPE F
617-36.02		CONTRACTOR FURNISHED/COMMISSION RETAINED TEMPORARY CONCRETE TRAFFIC BARRIER, TYPE F
617-40.00		TEMPORARY CONCRETE BARRIER HEIGHT TRANSITION
617-50.10		RELOCATING TEMPORARY CONCRETE TRAFFIC BARRIER
617-60.00		COMMISSION FURNISHED/RETAINED TEMPORARY CONCRETE TRAFFIC BARRIER, TYPE F
617-70.00		COMMISSION FURNISHED/RETAINED PRECAST BARRIER HEIGHT TRANSITION
620-80.65		TEMPORARY RAISED PAVEMENT MARKER
901-94.00		TEMPORARY LIGHTING
902-94.00		TEMPORARY TRAFFIC SIGNALS
902-94.01		TEMPORARY TRAFFIC SIGNALS AND LIGHTING
902-94.12		SOLAR POWERED PORTABLE TRAFFIC SIGNAL SYSTEM (COMMISSION RETAINED)
902-94.15		RELOCATION OF PORTABLE TRAFFIC SIGNAL SYSTEM

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ROUTE	STATE	DISTRICT	SHEET NO.
60	MO	7	10

JOB NO. J7P0849

CONTRACT ID. 090220-701

PROJECT NO.

COUNTY NEWTON

DATE

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- POWER SOURCE
- SIGNAL HEAD (OPT LIM CONV)
- SIGNAL HEAD (OPT LIM)
- SIGNAL HEAD (PEDESTRIAN)
- SIGNAL HEAD (STANDARD)
- PUSH BUTTON DETECTOR
- PREFORMED PULL BOX TYPE 1
- PREFORMED PULL BOX TYPE 2
- PULL BOX TYPE 1
- PULL BOX TYPE 2
- VIDEO DETECTOR
- CONDUIT MEDIAN
- CONDUIT PUSHED
- CONDUIT BRIDGE
- CONDUIT EXISTING
- CONDUIT TRENCHED
- TYPE C MAST ARM A BASE
- TYPE C MAST ARM F BASE

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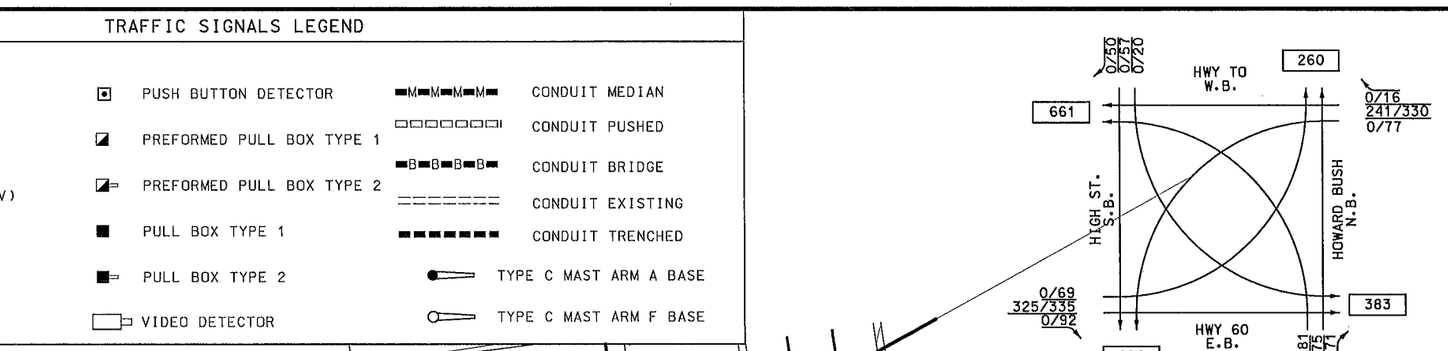
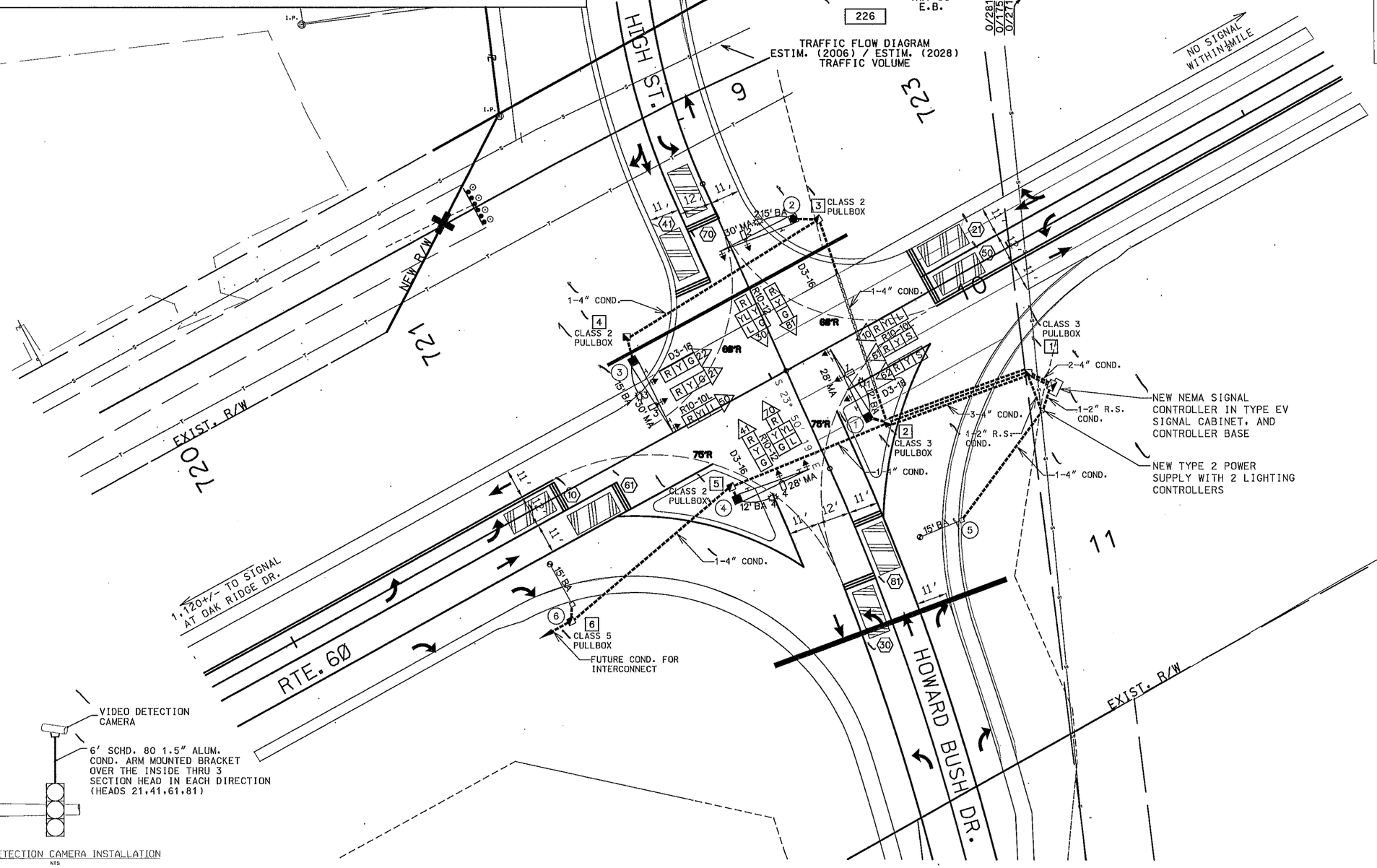
FINAL PLANS

NOTE:
MOUNT ALL DETECTION CAMERAS ON MAST ARM.

NOTE:
TRAFFIC SIGNAL EQUIPMENT WILL BE FURNISHED BY THE CONTRACTOR INCLUDES 38' SIGNAL POLES, MASTARM, SIGNAL HEADS, AND DETECTION EQUIPMENT. THE CONTRACTOR WILL BE RESPONSIBLE FOR INSTALLATION OF ALL ITEMS AND ANY ADDITIONAL MATERIALS AND EQUIPMENT REQUIRED FOR THE COMPLETE INSTALLATION (I.E. HARDWARE, BRACKETS, CABLING, ETC.)



TRAFFIC FLOW DIAGRAM
ESTIM. (2006) / ESTIM. (2028)
TRAFFIC VOLUME



VIDEO DETECTION CAMERA INSTALLATION
NTS

REV.

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ROUTE	STATE	DISTRICT	SHEET NO.
60	MO	7	13

JOB NO. J7P0849
CONTRACT ID. 090220-701
PROJECT NO.
COUNTY NEWTON
DATE

FINAL PLANS

| POST NUMBER | PULL BOX NUMBER | LOCATION: APPROACH | LOCATION: STATION | LOCATION: OFFSET | BASE: A (8, 10, 13, 8 MOD., 10 MOD., 13 MOD.) | BASE: B (8, 10, 13) | BASE: AT | BASE: CONCRETE ** (CU. YDS.) | PULL BOX: PREFORMED CLASS 1 | PREFORMED CLASS 2 | PREFORMED CLASS 3 | PREFORMED CLASS 5 | CONC. STANDARD | CONC. DOUBLE, TYPE A | CONC. DOUBLE, TYPE B | DRAIN TYPE* I | DRAIN TYPE* II A | DRAIN TYPE* II B | DRAIN TYPE* II C | TOP MOUNT POST 8 FT. | TOP MOUNT POST 15 FT. | POST: TYPE CL ARM LENGTH A | TYPE CL ARM LENGTH A | TYPE CL ARM LENGTH A | TYPE CL ARM LENGTH A | TYPE CL SIGNAL SPACING B | TYPE CL SIGNAL SPACING C | TYPE CL SIGNAL SPACING D | TYPE CL SIGNAL SPACING D' | TYPE CL SIGN SPACING B | TYPE CL SIGN SPACING C | TYPE CL SIGN SPACING D | TYPE CL SIGN SPACING D' | TYPE B & BL ARM LENGTH E | TYPE B & BL ARM LENGTH K | TYPE B & BL ARM LENGTH E | TYPE B & BL ARM LENGTH K | TYPE B & BL ARM LENGTH E | TYPE B & BL LEFT ARM E SIGNAL SPACING F | SIGNAL SPACING G | SIGNAL SPACING H | SIGNAL SPACING H' | SIGN SPACING F | SIGN SPACING G | SIGN SPACING H | SIGN SPACING H' | RIGHT ARM K SIGNAL SPACING L | SIGNAL SPACING M | SIGNAL SPACING N | SIGNAL SPACING N' | SIGN SPACING L | SIGN SPACING M | SIGN SPACING N | SIGN SPACING N' | TYPE AT POLE | LUMINAIRE BRACKET ARM* 4 FT. | 6 FT. | 8 FT. | 10 FT. | 12 FT. | 15 FT. |
|---|---|---|---

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ROUTE	STATE	DISTRICT	SHEET NO.
60	MO	7	14

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CONTRACT ID. 090220-701

PROJECT NO.

COUNTY NEWTON

DATE

FINAL PLANS

CONDUIT

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH			PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	4"		2"	4"		2"	4"		2"	4"		
Ø	⊠	10′		21′												RIGID STEEL
Ø	1	15′		21′												RIGID STEEL
⊠	1	10′			26′											(2) 4" CONDUITS
1	2	55′			159′											(3) 4" CONDUITS
2	3	79′			32′			45′								
3	4	82′			80′											
2	5	62′			60′											
5	6	76′			74′											
Ø	⑤	50′			56′											
2	①	8′			11′											
3	②	9′			12′											
4	③	9′			12′											
5	④	5′			8′											
6	⑥	6′			9′											
TOTALS				42′	539′			45′								

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER		CONTROL				CLOSED LOOP INTERCONNECT	POLE & BRACKET	DETECTOR		FIBER		REMARKS
			1c #6	1c #6 BARE GRND	2c #12	5c #12	7c #12	** VIDEO CABLES	3 PAIR #16	1c #10	1c #14 IN DUCT	2c #14 LEAD-IN CABLE	SINGLE-MODE	MULTI-MODE	
Ø	⊠	10′	78′												(3) CABLES - POWER
Ø	1	78′		42′	102′					84′					POLE AND 12′ ARM
Ø	2	154′		49′	188′					90′					POLE AND 15′ ARM
Ø	3	236′		49′	276′					90′					POLE AND 15′ ARM
Ø	4	137′		42′	167′					84′					POLE AND 12′ ARM
Ø	5	50′		45′	58′					90′					POLE AND 15′ ARM
Ø	6	214′		45′	246′					90′					POLE AND 15′ ARM
⊠	1	73′													
⊠	2	153′													
⊠	3	230′													
⊠	4	138′													
⊠	10	73′					144′								
⊠	61 #12	73′					138′								INCL. 12′ JUMPER
⊠	30	149′					232′								
⊠	81	149′					222′								
⊠	50	232′					320′								
⊠	21 #12	232′					314′								INCL. 12′ JUMPER
⊠	70	132′					208′								
⊠	41	132′					198′								
Ø	1	15′		26′											
1	2	55′		61′											
2	3	79′		85′											
3	4	76′		82′											
2	5	62′		68′											
5	6	76′		82′											
2	①	8′		15′											
3	②	9′		16′											
4	③	9′		16′											
5	④	5′		12′											
6	⑥	6′		13′											
Ø	⑤	50′		58′											
SUB-TOTALS			78′	806′	1037′		1776′			528′					
USE			80′	810′	1040′		1780′			530′					

HWY 60 & HOWARD BUSH DR
INTERSECTION

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ROUTE	STATE	DISTRICT	SHEET NO.
60	MO	7	15

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PROJECT NO.

COUNTY NEWTON

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FINAL PLANS

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
APPROACH	STATION	OFFSET	DRAWING 902.15	DRAWING	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
							SIGNALS	LIGHTING				
HWY 60	722+81.8	58.6 RT	Type 2		15 Amps	30 Amps	50 Amps	15 Amps	2	15 Amps	Ci. Ft.	EMPIRE
			Type		15 Amps	Amps	Amps	Amps		Amps	Ci. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH TYPE		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
									12C/7C HARDWIRE		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
HWY 60	722+89.3	52.0 RT			1												1					

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		PUSH BUTTON	INDUCTION LOOP (1)			VIDEO
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
1 (10)	EAST BOUND (LEFT)					1
(61)	EAST BOUND (THRU)					1
2 (30)	NORTH BOUND (LEFT)					1
(81)	NORTH BOUND (THRU)					1
3 (50)	WEST BOUND (LEFT)					1
(21)	WEST BOUND (THRU)					1
4 (70)	SOUTH BOUND (LEFT)					1
(41)	SOUTH BOUND (THRU)					1
TOTAL						8

- ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 4-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

(3) VIDEO POWER CABLES TO BE TO MANUFACTURERS SPECIFICATION.

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1	10	61			30	81		
	2	50	21			70	41		

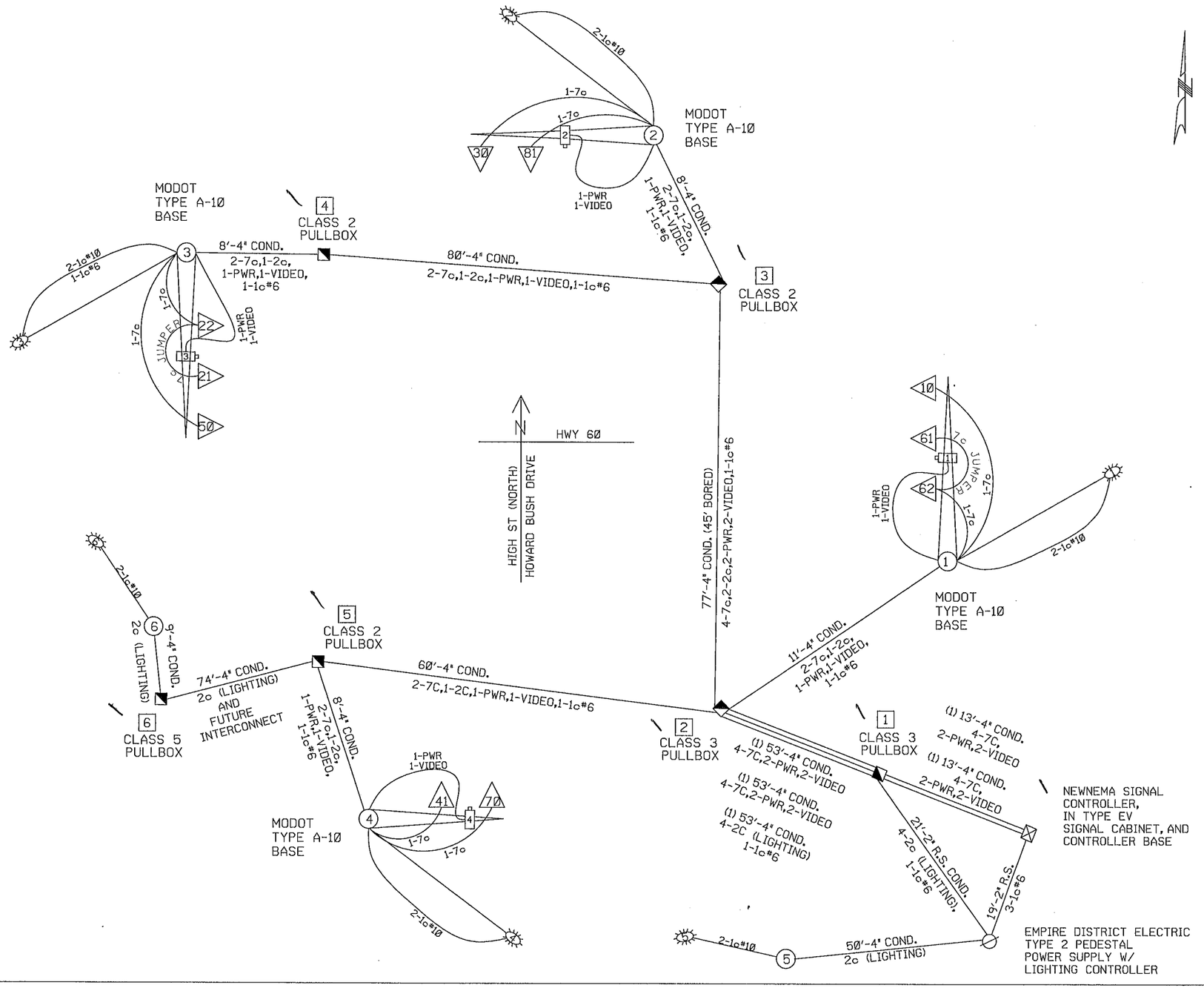
TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = (2)

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
10	21	30	41	50	61	70	81				

HWY60 & HOWARD BUSH DR
INTERSECTION

WIRING DIAGRAM



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ROUTE	STATE	DISTRICT	SHEET NO.
60	MO	7	16

JOB NO. J7P0849

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PROJECT NO.

COUNTY NEWTON

DATE

FINAL PLANS

LEGEND

3"	CONDUIT CONTAINING CABLE WITH SIZE
	CABLE
X-Xc	MULTI-CONDUCTOR CABLE #16 AWG (UNLESS OTHERWISE INDICATED)
LIC	#14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
X	PULL BOX WITH NUMBER
X	POST WITH NUMBER
X	POST WITH MAST ARM
X	POST WITH MAST ARM AND LUMINAIRE
X	DETECTOR WITH NUMBER
X	SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
	POWER SUPPLY
	LIGHTING CONTROLLER
X	PEDESTRIAN HEAD WITH NUMBER

ALL CABLE #12 UNLESS OTHERWISE NOTED.
ALL CONDUIT SCHEDULE 40 PVC UNLESS OTHERWISE NOTED.

RS = RIGID STEEL

PREFORMED PULL BOXES

CLASS	MINIMUM SIZE
1	17"x30"x22"
2	24"x36"x26"
3	30"x48"x36"

HWY 60 & HOWARD BUSH DR

INTERSECTION

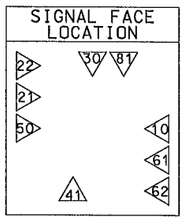
D-37D

CJW Transportation Consultants, L.L.C.	ROUTE	STATE	DISTRICT	SHEET NO.
5051 S. National, Suite 4-110 Springfield, Missouri 65810 Tel: 417.889.3400 www.GOCJW.com	60	MO	7	17
JOB NO. J7P0849				
CONTRACT ID. 090220-701				
PROJECT NO.				
COUNTY NEWTON				

DATE_____

FINAL PLANS

SIGNAL FACE LOCATION



TRAFFIC PHASING AND COLOR SEQUENCE – ACTUATED CONTROLLERS

	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED ϕ 2	PED ϕ 4	PED ϕ 6	PED ϕ 8
									OVERLAP	OVERLAP	OVERLAP	OVERLAP
FACE NUMBERS	10	21 22	30	41 70	50	61 62	70	81 30				
SIGNAL INDICATIONS R	R	R R		R R	R	R R		R R				
SIGNAL INDICATIONS Y	YL	Y Y	YL	Y Y	YL	Y Y	YL	Y Y				
SIGNAL INDICATIONS G	L	S S	L	G G	L	S S	L	G G				
DETECTOR ASSIGNMENTS	10	21 22	30	41 70	50	61 62	70	81 30				
DETECTOR ASSIGNMENTS (PEDS. ONLY)												
OVERLAP PARENT PHASES												

FACE NUMBERS
SIGNAL INDICATIONS (R, Y, G)
DETECTOR ASSIGNMENTS

PHASE 1	PHASE 2	PHASE 3	PHASE 4
PHASE 5	PHASE 6	PHASE 7	PHASE 8

RING 1
RING 2
BARRIER

RING STRUCTURE

IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED

FDW – FLASHING DON'T WALK
R/W – RIGHT OF WAY INTERVAL
DW – DON'T WALK
YR† – YELLOW RIGHT ARROW
RT. – GREEN RIGHT ARROW
W – WALK
LY –YL – YELLOW LEFT ARROW
L – GREEN LEFT ARROW
S – GREEN STRAIGHT AHEAD ARROW
G – CIRCULAR GREEN
Y – CIRCULAR YELLOW
R – CIRCULAR RED
Ø – TRAFFIC PHASE
AO – ALL OTHERS
FR – FLASHING RED
FY – FLASHING YELLOW

FLASHING OPERATION	
HWY 60	FY
HOWARD BUSH DR	FR

CONTROLLER TYPE	EPAC M-42

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF

HWY 60 & HOWARD BUSH DR

CJW

CJW Transportation Consultants, L.L.C.
5051 S. National, Suite 4-110
Springfield, Missouri 65810
Tel: 417.889.3400
www.GOCJW.com

ROUTE	STATE	DISTRICT	SHEET NO.
60	MO	7	18

JOB NO. J7P0849

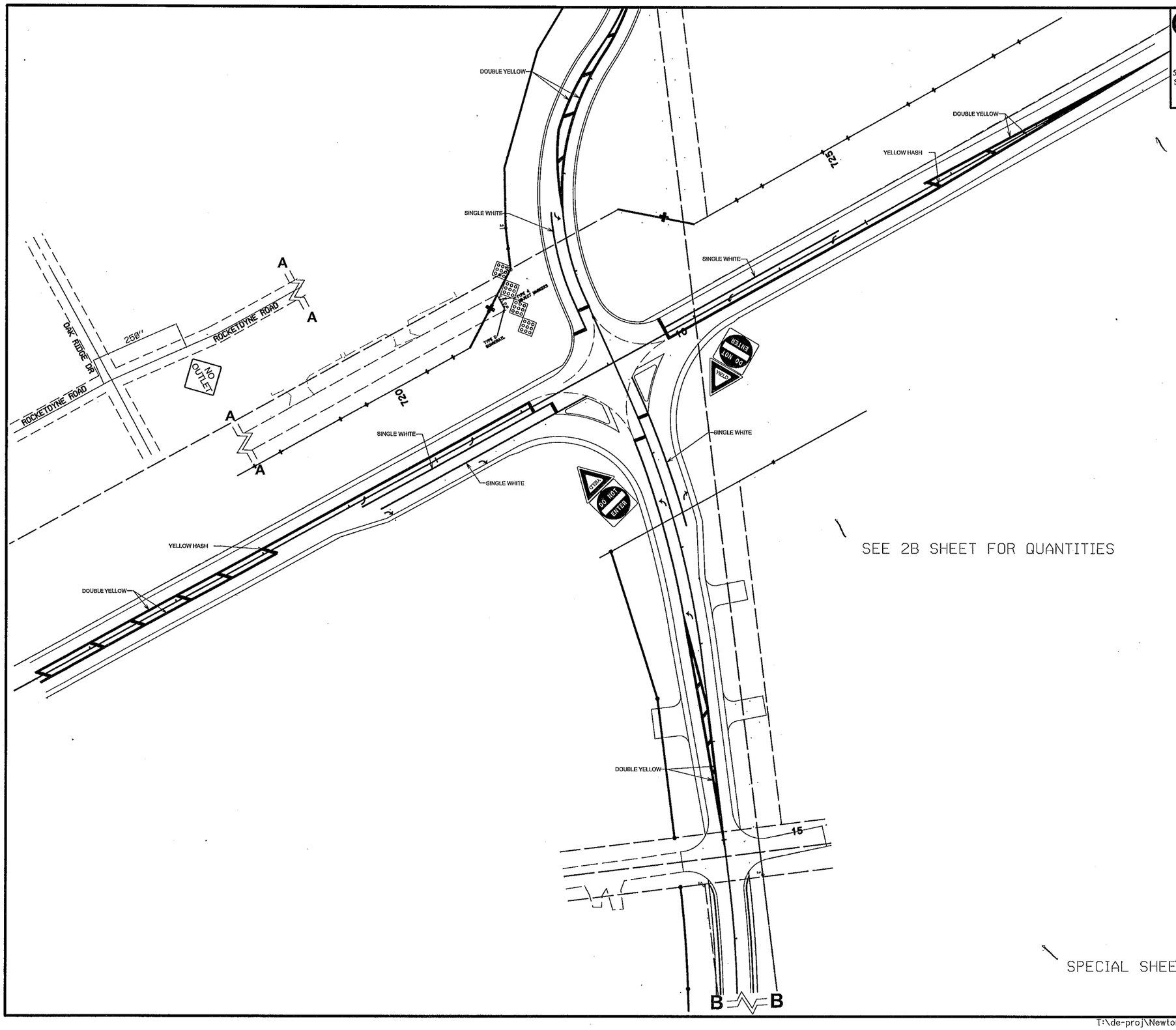
CONTRACT ID. 090220-701

PROJECT NO.

COUNTY NEWTON

DATE

FINAL PLANS



SCALE
0 50 100 150

SEE 2B SHEET FOR QUANTITIES

SPECIAL SHEET PAVEMENT MARKING/HIGHWAY SIGNING

REV.

T:\de-proj\Newton\J7P0849\Plan Sheets\018_PM_J7S0849_150.dgn 10:37:16 AM 12/10/2009

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ROUTE	STATE	DISTRICT	SHEET NO.
60	MO	7	19

JOB NO. J7P0849

CONTRACT ID. 090220-701

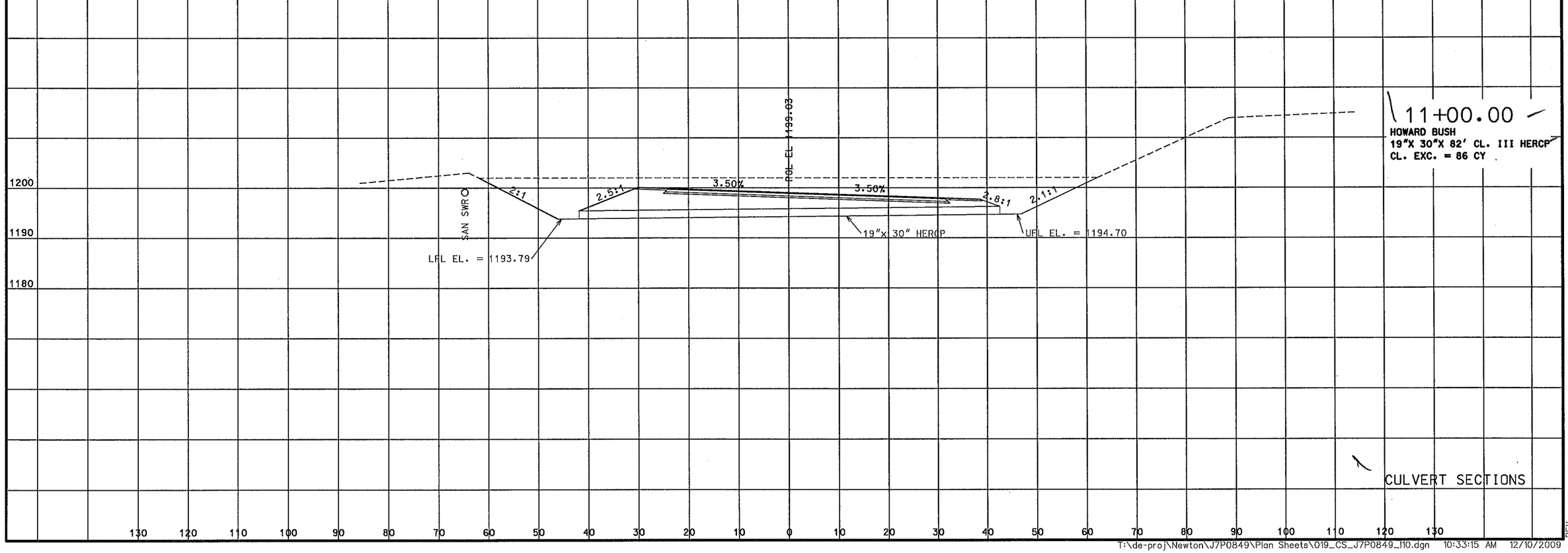
PROJECT NO.

COUNTY NEWTON

DATE

FINAL PLANS





CULVERT SECTIONS

REV.

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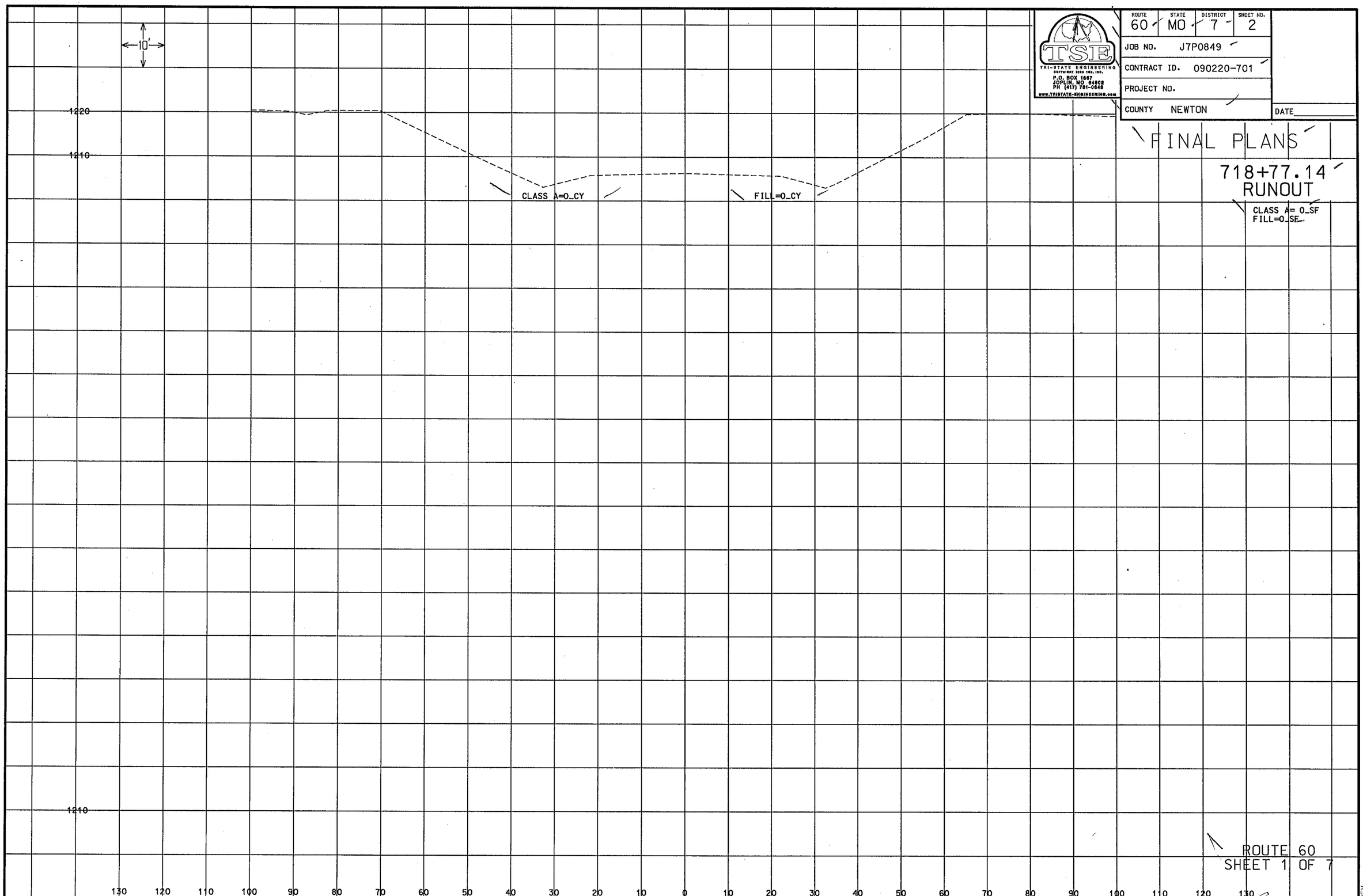

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ROUTE	STATE	DISTRICT	SHEET NO.
60	MO	7	2

JOB NO. J7P0849

CONTRACT ID. 090220-701

PROJECT NO.

COUNTY NEWTON

DATE

FINAL PLANS

718+77.14
RUNOUT

CLASS A= 0_SF
FILL=0_SF

ROUTE 60
SHEET 1 OF 7

REV.

T:\de-proj\Newton\J7P0849\Plan Sheets\XS_001-010_J7P0849_I10_RTE60.dgn 07:50:25 AM 12/14/2009

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PH (417) 781-0848
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ROUTE	STATE	DISTRICT	SHEET NO.
60	MO	7	3

JOB NO. J7P0849

CONTRACT ID. 090220-701

PROJECT NO.

COUNTY NEWTON

DATE

FINAL PLANS

10'

1220
1210
1200

CLASS A=135_CY
FILL=16_CY

EL 1202.10
OFF 22.00'
EL 1201.36
OFF 28.00'
OFF 32.00'
EL 1201.80
OFF 36.56'
EL 1200.61
2.33%

720+00.00
CLASS A= 70_SF
FILL=9_SF

1220
1210

CLASS A=72_CY
FILL=12_CY

EL 1203.31
OFF 22.00'
EL 1203.16
OFF 28.00'
OFF 32.00'
EL 1203.00
OFF 36.29'
EL 1201.90
2.53%

719+50.00
CLASS A= 76_SF
FILL=8_SF

1220
1210

CLASS A=1_CY
FILL=2_CY

EL 1204.51
OFF 22.00'
EL 1204.50
OFF 22.50'
OFF 26.64'
EL 1204.34
OFF 33.47'
EL 1202.70
2.55%

719+00.00
CLASS A= 2_SF
FILL=5_SF

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

ROUTE 60
SHEET 3 OF 10

REV.

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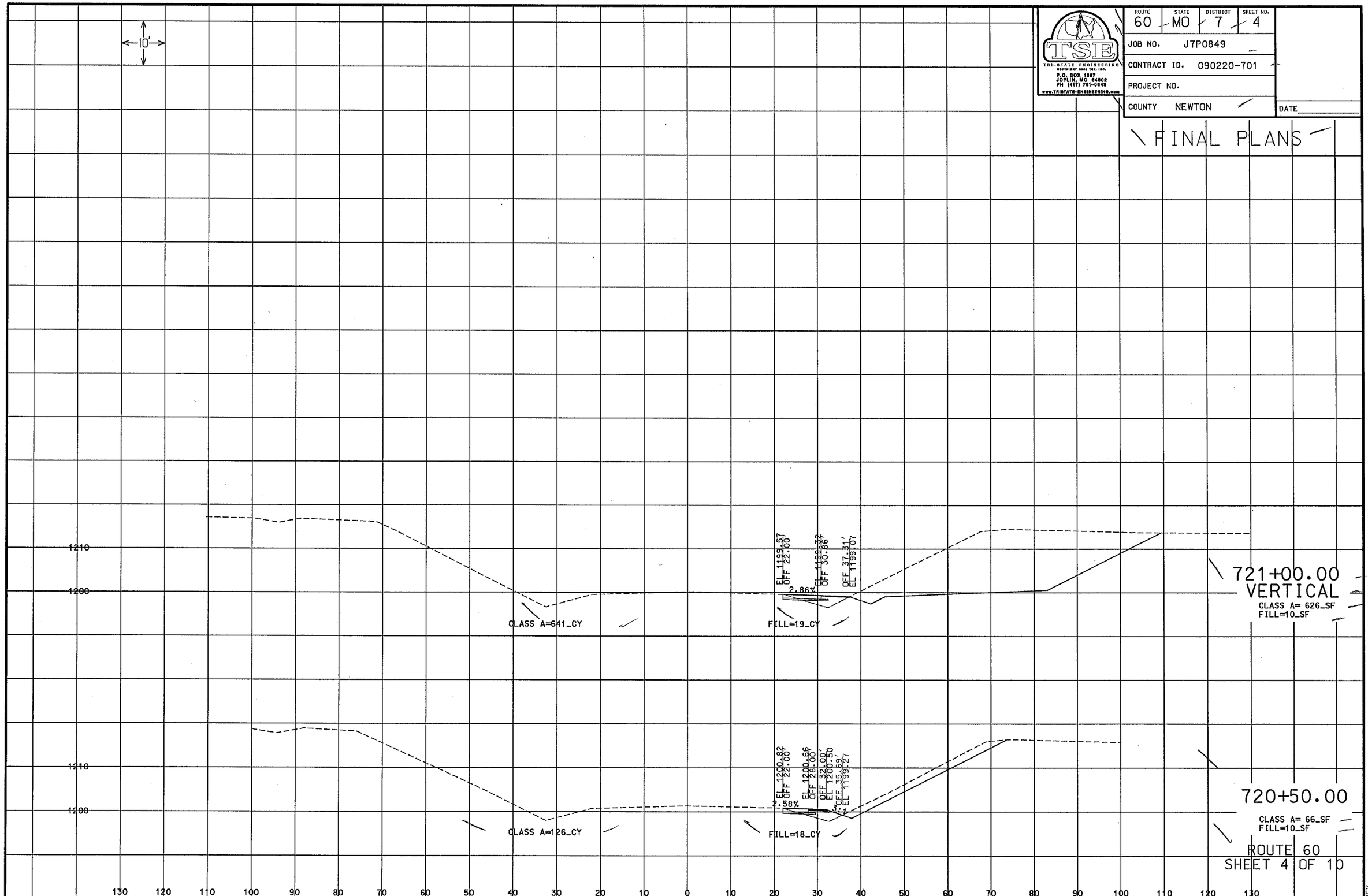

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ROUTE	STATE	DISTRICT	SHEET NO.
60	MO	7	5

JOB NO. J7P0849

CONTRACT ID. 090220-701

PROJECT NO.

COUNTY NEWTON

DATE

FINAL PLANS

10'

1200

CLASS A=1_CY

EL 1194.17
OFF 22.00'
OFF 26.00'
EL 1194.01
3.4%
OFF 31.07'
EL 1192.32

FILL=6_CY

723+00.00
CLASS A=1_SF
FILL=6_SF

1210

1200

CLASS A=0_CY

EL 1195.46
OFF 22.00'
OFF 26.00'
EL 1195.29
3.4%
OFF 31.18'
EL 193.56

FILL=0_CY

722+50.00
RUNOUT
CLASS A= 0_SF
FILL=0_SF

ROUTE 60
SHEET 5 OF 10

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

REV.

T:\de-proj\Newton\J7P0849\Plan Sheets\XS_001-010_J7P0849_I10_RTE60.dgn 07:50:26 AM 12/14/2009

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ROUTE	STATE	DISTRICT	SHEET NO.
60	MO	7	6

JOB NO. J7P0849

CONTRACT ID. 090220-701

PROJECT NO.

COUNTY NEWTON

DATE

FINAL PLANS

10'

1200

CLASS A=1_CY

EL 1193.45
DIS 177.03'

DIS 22.05'
EL 1193.25

FILL=4_CY

723+38.19
RUNOUT
CLASS A= 0_SF
FILL=0_SF

130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130

ROUTE 60
SHEET 6 OF 10

REV.

T:\de-proj\Newton\J7P0849\Plan Sheets\XS_001-010_J7P0849_110_RTE60.dgn 07:50:26 AM 12/14/2009

ROUTE	STATE	DISTRICT	SHEET NO.
60	MO	7	11

JOB NO. J7P0849

CONTRACT ID. 090220-701

PROJECT NO.

COUNTY NEWTON

DATE

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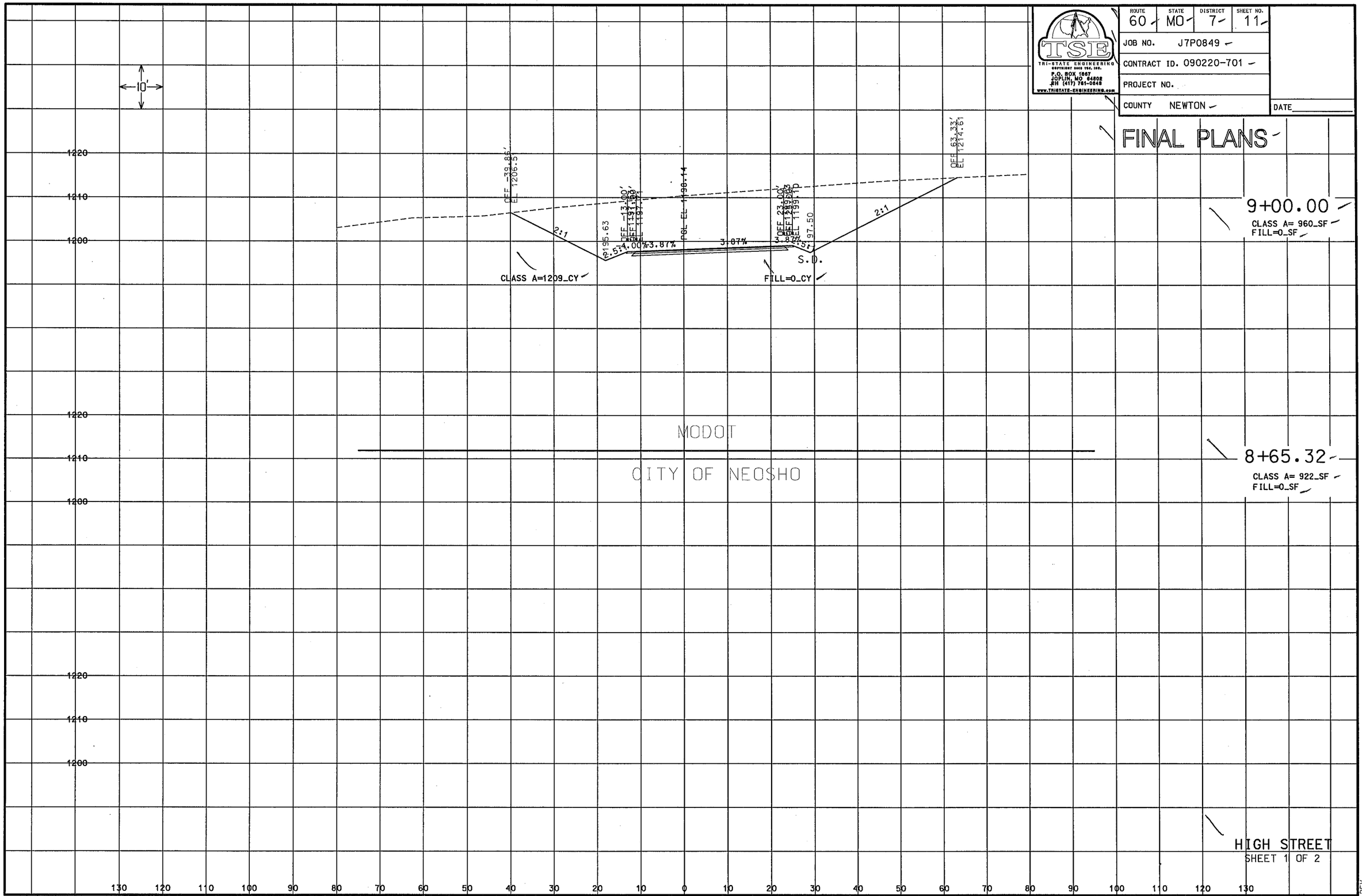
FINAL PLANS



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ROUTE	STATE	DISTRICT	SHEET NO.
60	MO	7	12

JOB NO. J7P0849

CONTRACT ID. 090220-701

PROJECT NO.

COUNTY NEWTON

DATE

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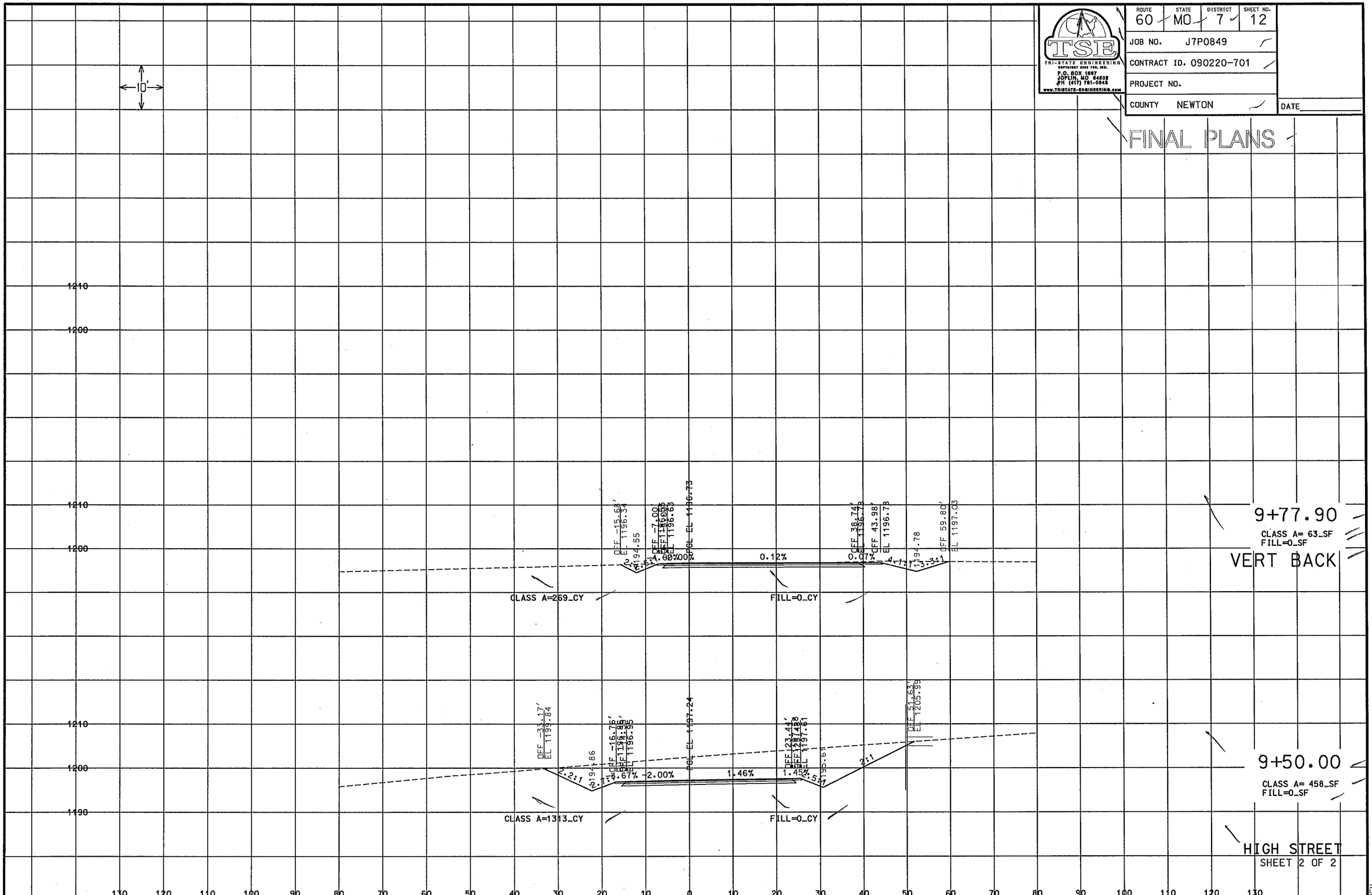
FINAL PLANS



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ROUTE	STATE	DISTRICT	SHEET NO.
60	MO	7	13

JOB NO. J7P0849

CONTRACT ID. 090220-701

PROJECT NO.

COUNTY NEWTON

DATE

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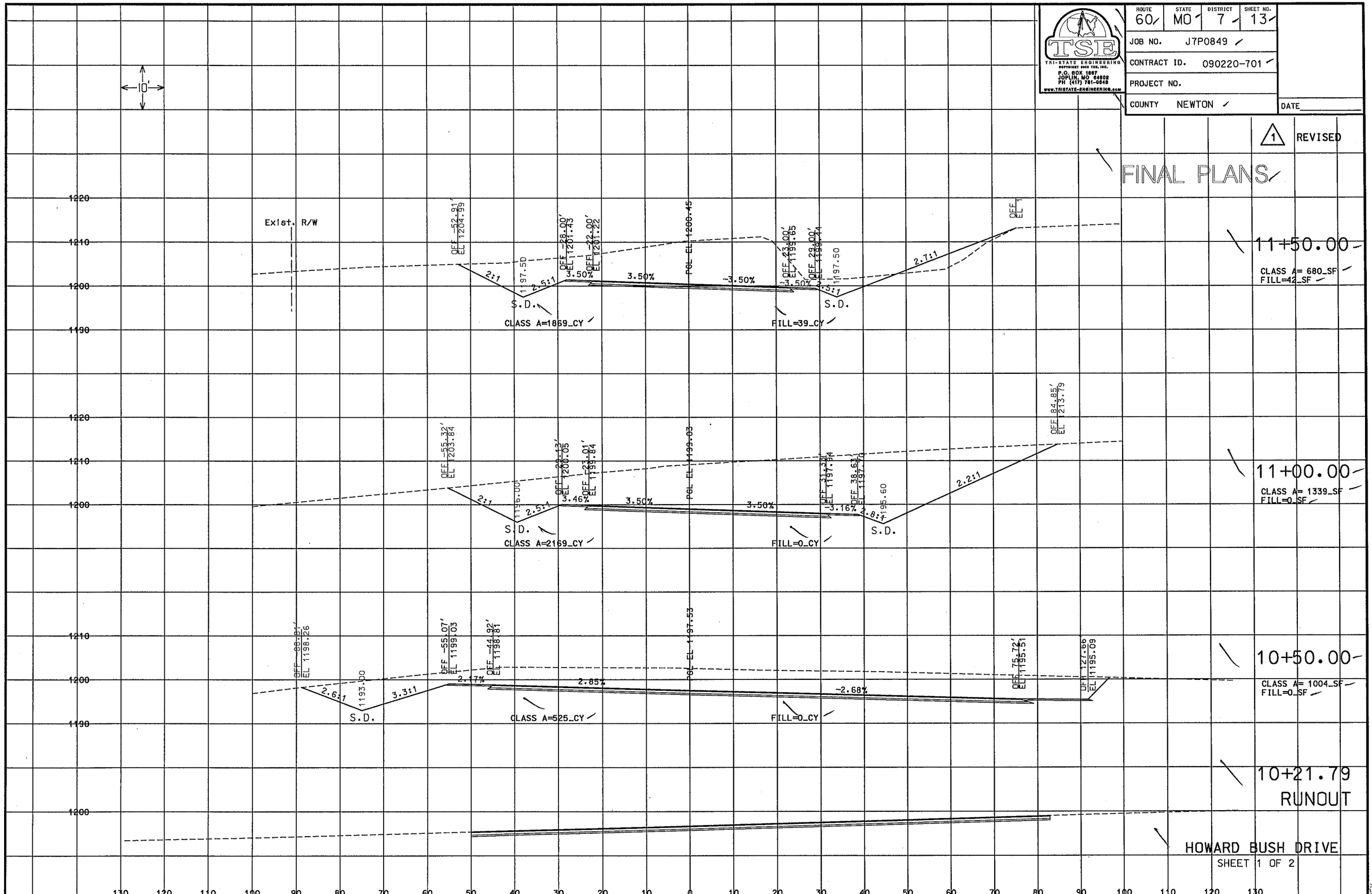
1 REVISED

FINAL PLANS



HOWARD BUSH DRIVE

SHEET 1 OF 2

REV.

T:\de-proj\Newton\J7P0849\Revised Cross Sections\XS_006-007_J7P0849_I10_HB_REV.dgn 09:21:09 AM 12/14/2009

ROUTE	STATE	DISTRICT	SHEET NO.
60	MO	7	14

JOB NO. J7P0849

CONTRACT ID. 090220-701

PROJECT NO.

COUNTY NEWTON

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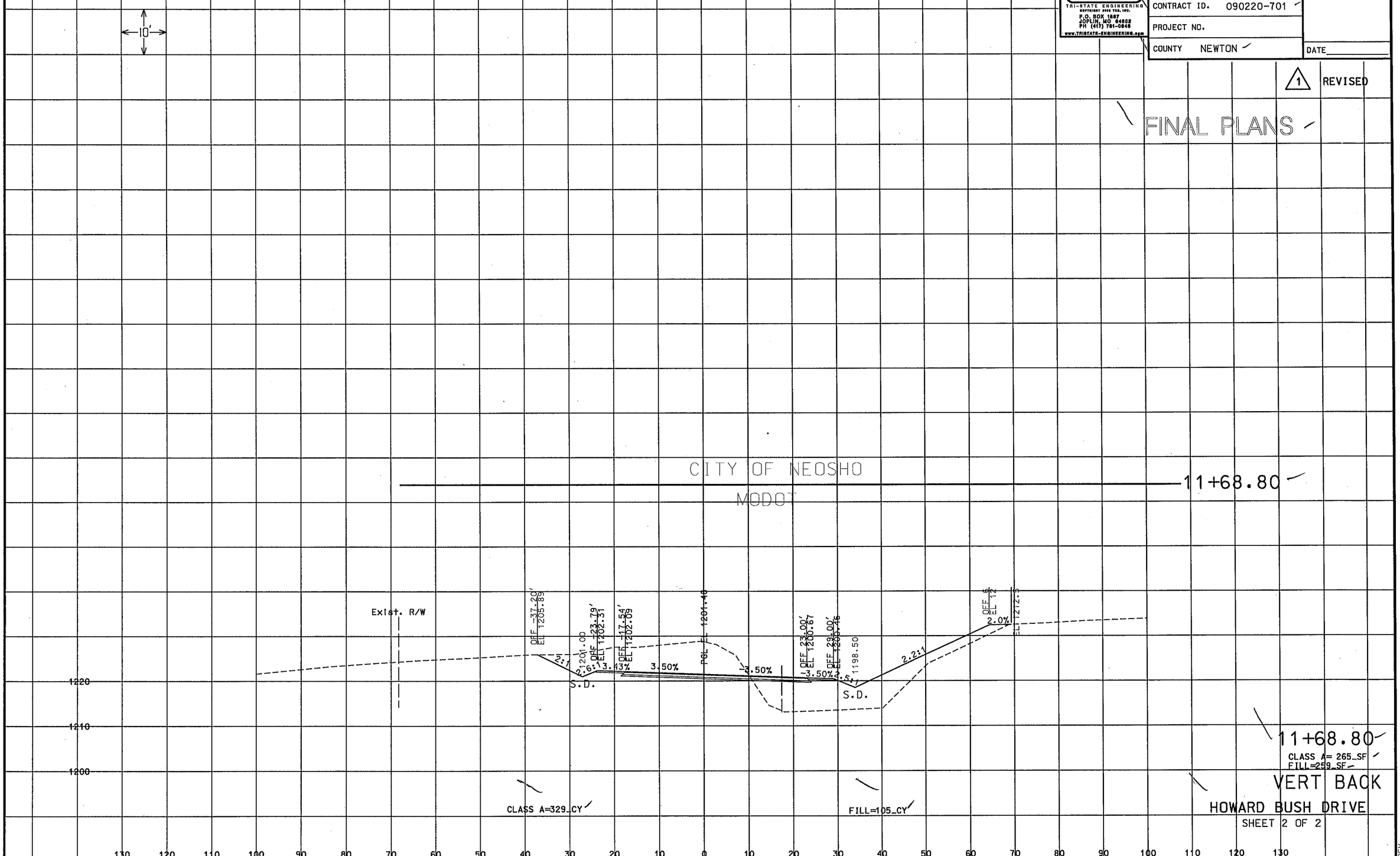
1 REVISED

FINAL PLANS



REV.

T:\de-proj\Newton\J7P0849\Revised Cross Sections\XS_006-007_J7P0849_I10_HB_REV.dgn 09:21:09 AM 12/14/2009

DESIGN DESIGNATION

A.A.D.T. - 2018 = 11,415
A.A.D.T. - 2038 = 12,613
D.H.V. = 8.75%
T = 9.10%
V = 45 M.P.H.
D (E/W) = 53.1%/46.9%
FUNCTIONAL CLASSIFICATION-PRINCIPAL ARTERIAL

NO NEW R/W REQUIRED

UTILITY COMPANIES

TRAFFIC SIGNALS
MISSOURI DEPARTMENT
OF TRANSPORTATION
SOUTHWEST DISTRICT
MARK MAIS
3025 E. KEARNEY STREET
P.O. BOX 868
SPRINGFIELD, MO 65801
(417) 895-7621

FIBER OPTIC-CABLE
SUDDENLINK COMMUNICATIONS
14843 MISSOURI HIGHWAY 13
BRANSON WEST, MO 65737
(877) 694-9474
(816) 807-0145

GAS
MISSOURI GAS ENERGY
207 PINE STREET
MONETT, MO 65708
(800) 582-1234

ELECTRIC-WATER-SEWER
CITY OF MONETT
UTILITIES
P.O BOX 110
217 5TH STREET
MONETT, MO 65708
(417) 235-3300

FIBER OPTIC
K-POWERNET, LLC
P.O. BOX 577
VINITA, OK 74301
(888) 875-2720

TELEPHONE
ATT DISTRIBUTION
1425 OAK STREET
RM 618
KANSAS CITY, MO 64105
(816) 931-4956

CONVENTIONAL SYMBOLS
(USED IN PLANS)

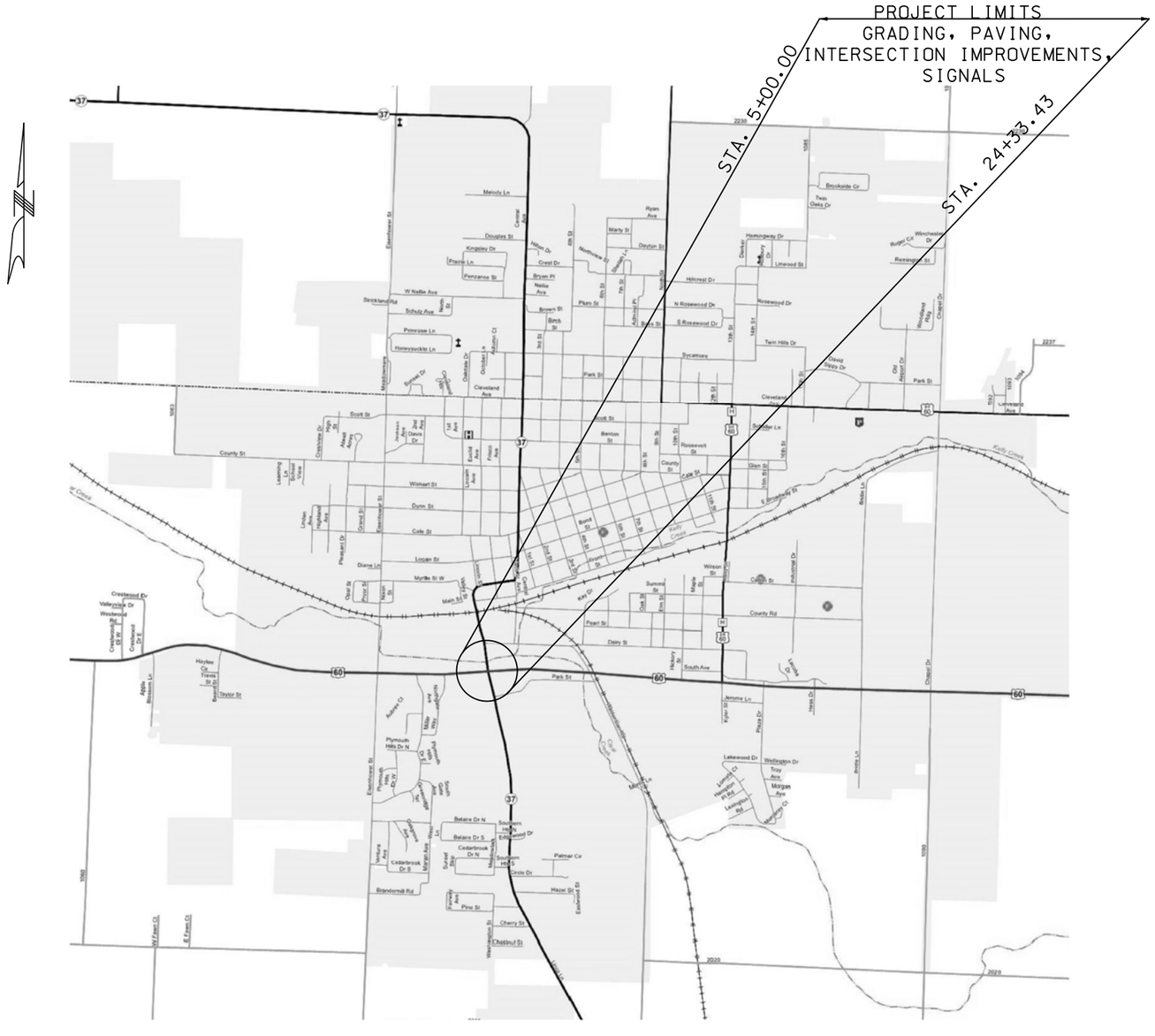
	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	-FO-
OVERHEAD TELEPHONE		
UNDERGROUND TELEPHONE	-T-	-T-
OVERHEAD POWER		
UNDERGROUND POWER	-P-	-P-
GAS	-G-	-G-
WATER	-W-	-W-
MANHOLE	SAN	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
DROP INLET	DI	
DITCH BLOCK		
GROUND MOUNTED SIGN	SIGN	
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL	PED	
FENCE		
CHAIN LINK	-V-	
WOVEN WIRE	-X-	
GATE POST		
BENCHMARK	BM	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY
BARRY COUNTY



LOCATION MAP
SHOWING LOCATION OF
BARRY COUNTY



CITY OF MONETT

NOT TO SCALE

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (3 SHEETS)	2
QUANTITIES (QU) (4 SHEETS)	3
PLAN-PROFILE (PP)	4-5
REFERENCE POINTS (RP)	6
COORDINATE POINTS (CP)	7
SPECIAL SHEETS (SS)	8-9
TRAFFIC CONTROL SHEETS (TC)	10-18
EROSION CONTROL SHEETS (EC)	19-20
SIGNALS (SG)	21-26
SIGNING (SN)	27-30
PAVEMENT MARKING (PM)	31-32
CROSS SECTIONS (XS)	1-11

LENGTH OF PROJECT

BEGINNING OF PROJECT	STA. 5+00.00	
END OF PROJECT	STA. 24+33.43	
APPARENT LENGTH	1933.43	FEET
EQUATIONS AND EXCEPTIONS: NONE		
TOTAL CORRECTIONS	0	FEET
NET LENGTH OF PROJECT	1933.43	FEET
STATE LENGTH	0.366	MILES

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

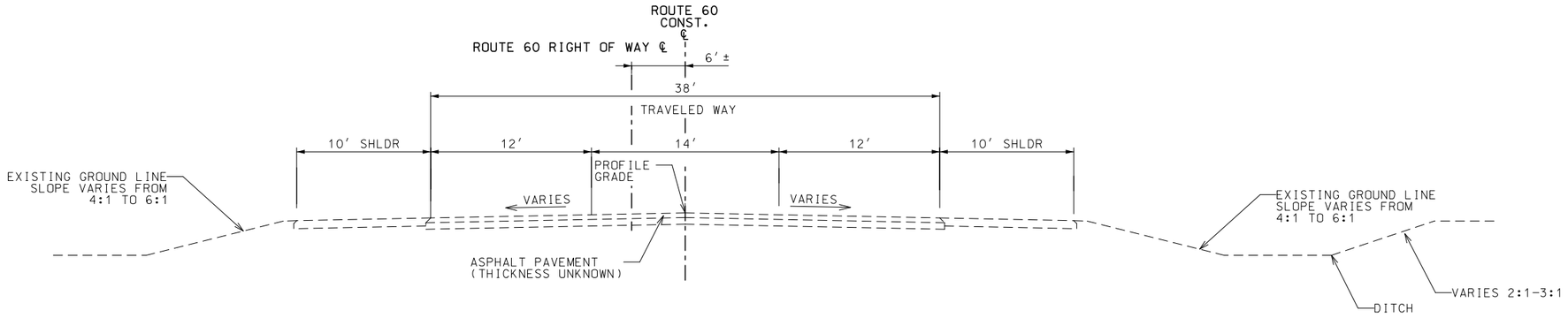
DATE PREPARED: 11/30/2017
ROUTE: 60/37 | STATE: MO
DISTRICT: SW | SHEET NO.: 1
COUNTY: BARRY
JOB NO.: J7P0881
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

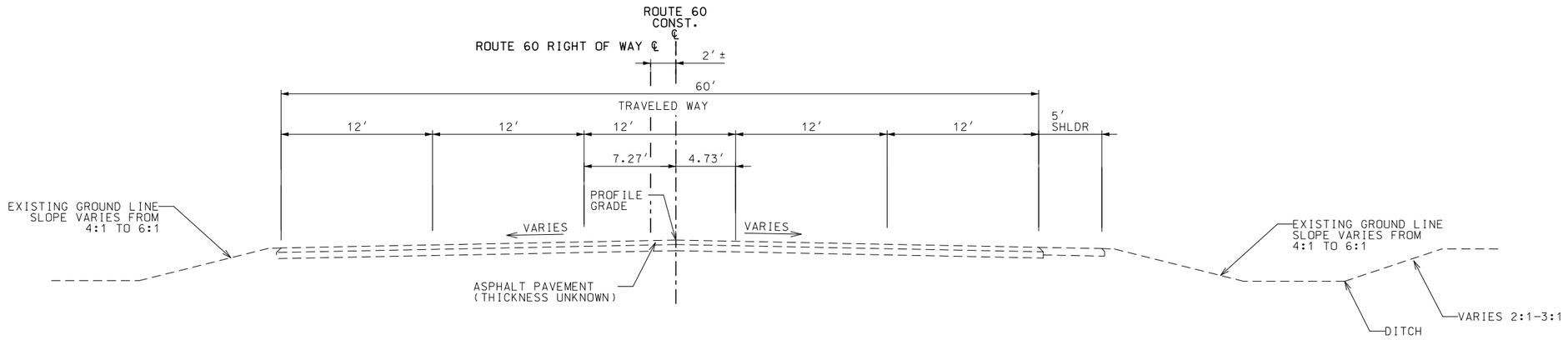
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

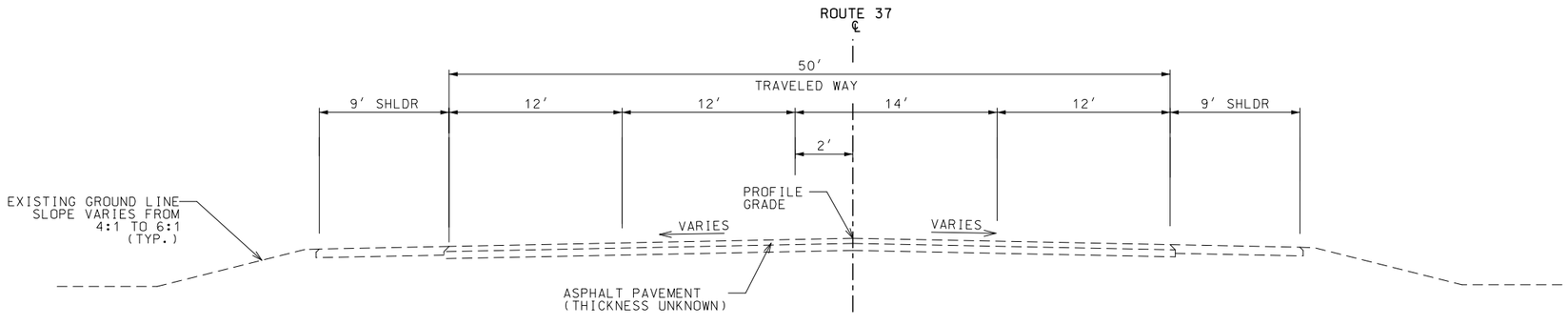
Bartlett&West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM



EXISTING TYPICAL SECTION ON ROUTE 60
STA. 5+00.00 TO STA. 22+08.75



EXISTING TYPICAL SECTION ON ROUTE 60
STA. 22+08.75 TO STA. 24+20.00



EXISTING TYPICAL SECTION ON ROUTE 37
STA. 0+83.21 TO STA. 2+25.00

NOTES:

SUPERELEVATION NOT SHOWN.

NOT TO SCALE

TYPICAL SECTION SHEET
SHEET 1 OF 3

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
11/30/2017

ROUTE	STATE
60/37	MO
DISTRICT	SHEET NO.
SW	2

COUNTY
BARRY

JOB NO.
J7P0881

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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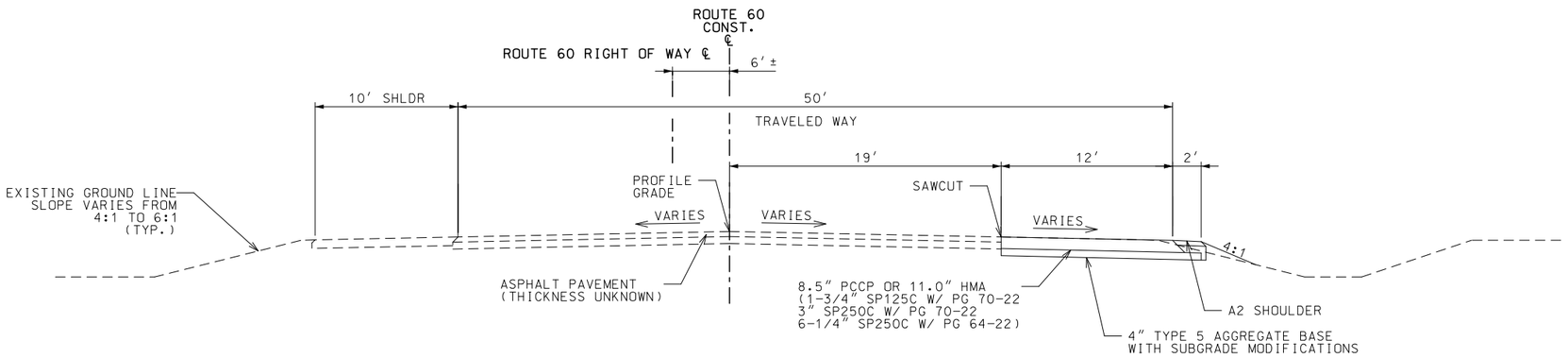
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

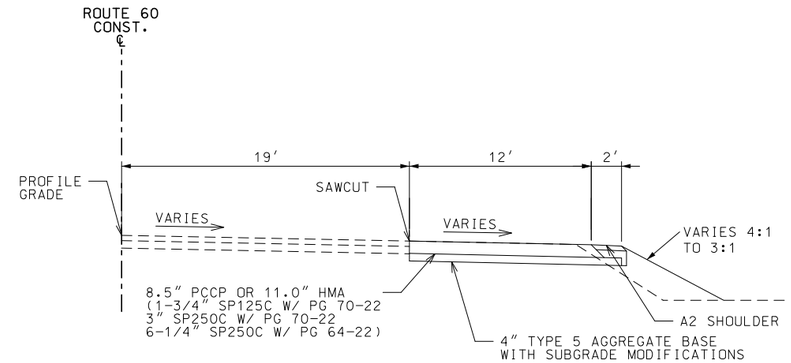
Bartlett&West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM



PROPOSED TYPICAL SECTION ON ROUTE 60

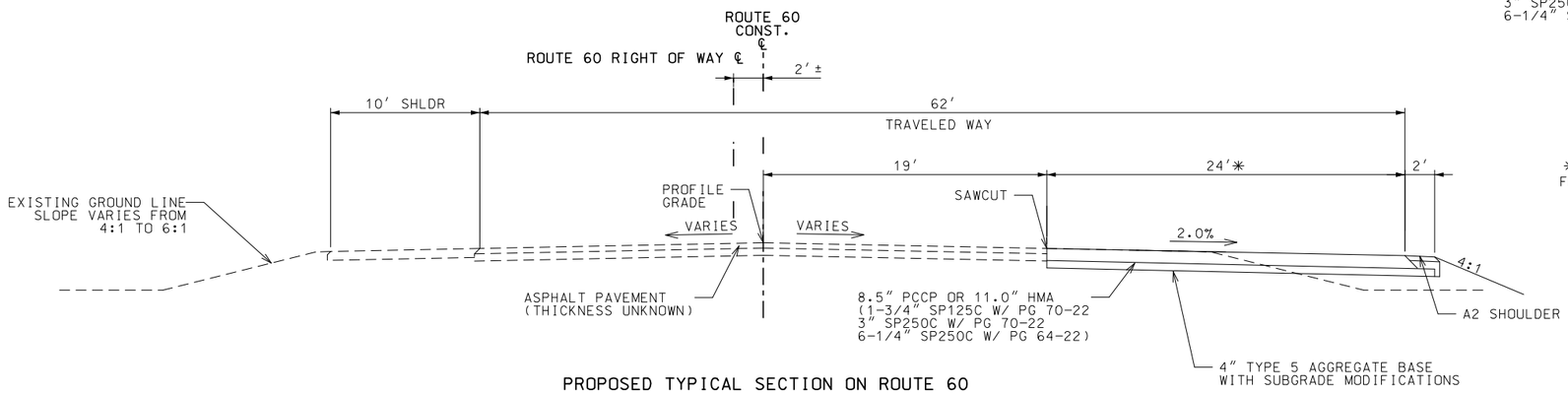
STA. 5+19.83 TO STA. 9+25.00

STA. 10+25.00 TO STA. 17+90.00



PROPOSED TYPICAL SECTION ON ROUTE 60

STA. 9+25.00 TO STA. 10+25.00



PROPOSED TYPICAL SECTION ON ROUTE 60

STA. 17+90.00 TO STA. 21+03.47

✳ WIDENS FROM 12′ TO 24′
FROM 17+90.00 TO 18+90.00

NOTES:
EXISTING CROSS SLOPES VARY.
MATCH EXISTING CROSS SLOPES IN AREAS WITH SUPERELEVATION.
SEE CROSS SECTION SHEETS FOR DETAILS.

SUPERELEVATION NOT SHOWN.

NOT TO SCALE

TYPICAL SECTION SHEET
SHEET 2 OF 3

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
11/30/2017

ROUTE	STATE
60/37	MO
DISTRICT	SHEET NO.
SW	2

COUNTY
BARRY

JOB NO.
J7P0881

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett&West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
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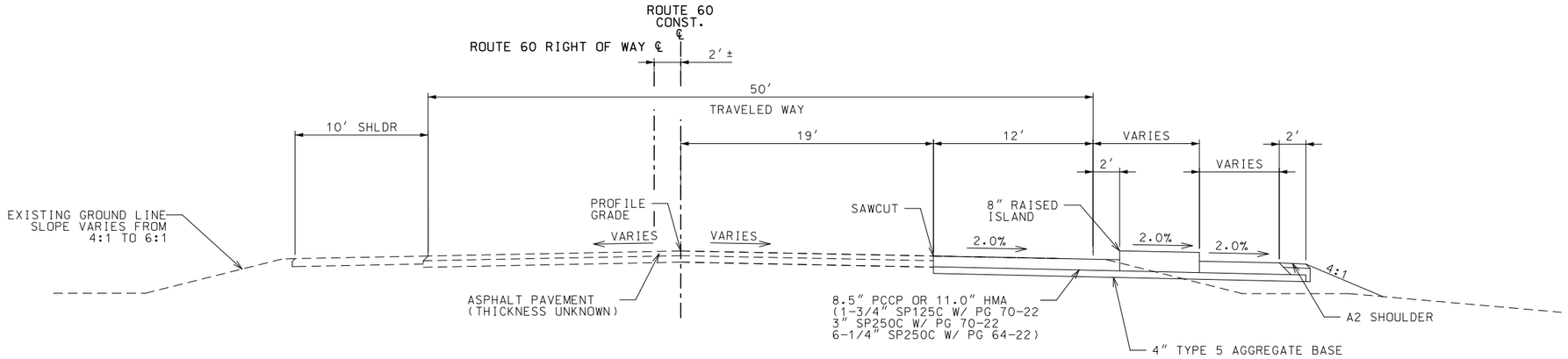
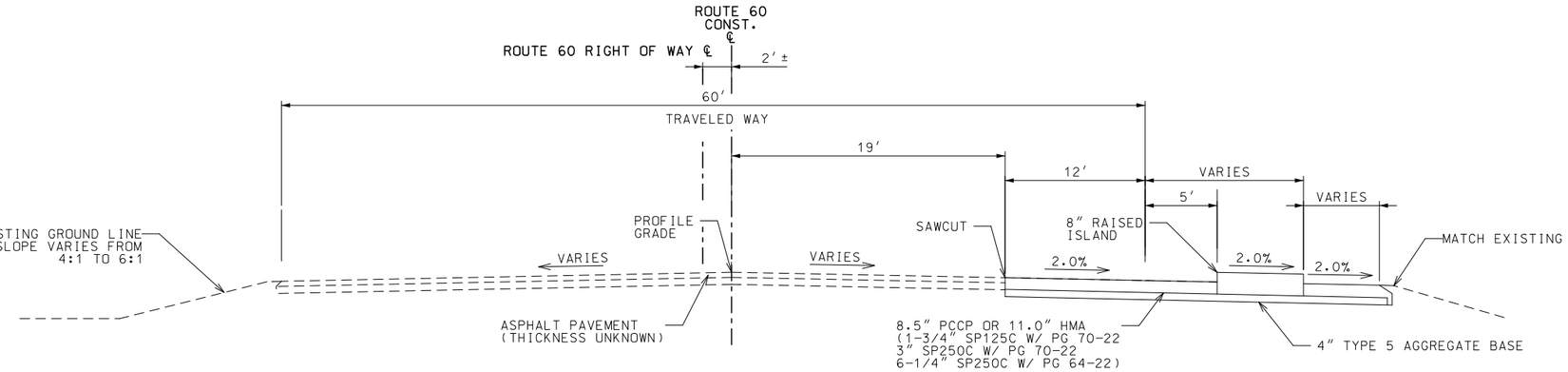
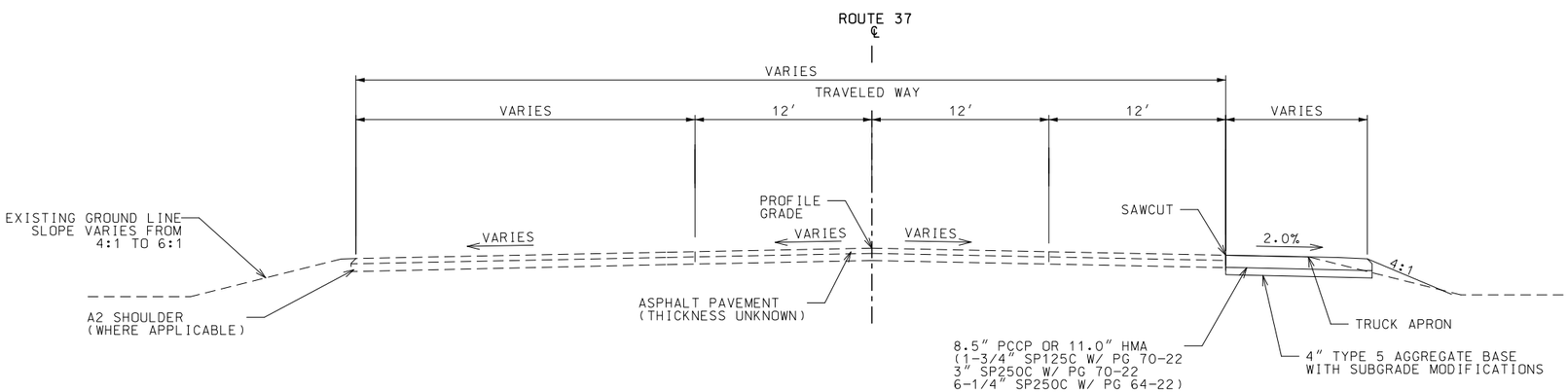
WWW.BARTWEST.COM



PROPOSED TYPICAL SECTION ON ROUTE 60
STA. 21+03.74 TO STA. 21+88.26



PROPOSED TYPICAL SECTION ON ROUTE 60
STA. 22+30.92 TO STA. 22+48.12



PROPOSED TYPICAL SECTION ON ROUTE 37
STA. 0+88.26 TO STA. 1+86.75

NOTES:
EXISTING CROSS SLOPES VARY.
MATCH EXISTING CROSS SLOPES IN AREAS WITH SUPERELEVATION.
SEE CROSS SECTION SHEETS FOR DETAILS.

SUPERELEVATION NOT SHOWN.

NOT TO SCALE

TYPICAL SECTION SHEET
SHEET 3 OF 3

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 11/30/2017
ROUTE: 60/37 | STATE: MO
DISTRICT: SW | SHEET NO.: 2
COUNTY: BARRY
JOB NO.: J7P0881
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett&West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

REMOVAL OF IMPROVEMENTS						
ROUTE	STATION	STATION	LOCATION	DESCRIPTION	AMOUNT	REMARKS
60	5+22.41	22+78.54	RIGHT	PAVEMENT REMOVAL	2474 SY	INCLUDES FULL DEPTH SAW CUT
37	0+49.18	1+86.75	RIGHT	PAVEMENT REMOVAL	354 SY	INCLUDES FULL DEPTH SAW CUT
60	9+31.39	9+31.39	RIGHT	SIGN	1 EACH	NO PARKING ANY TIME (R7-1)
60	11+42.81	11+42.81	RIGHT	SIGN	1 EACH	NO PARKING ANY TIME (R7-1)
60	13+25.00	13+25.00	RIGHT	SIGN	1 EACH	NO PARKING ANY TIME (R7-1D)
60	14+75.69	14+75.69	RIGHT	SIGN	1 EACH	DO NOT DRIVE ON SHOULDER
60	15+69.64	15+69.64	RIGHT	SIGN	1 EACH	NO PARKING ANY TIME (R7-1D)
60	16+82.77	16+82.77	RIGHT	SIGN	1 EACH	NO PARKING ANY TIME (R7-1)
60	16+81.28	17+08.72	RIGHT	PAVEMENT REMOVAL	104 SY	GOLF COURSE ENTRANCE - INCLUDES FULL DEPTH SAW CUT
60	19+33.53	19+33.53	RIGHT	SIGN	1 EACH	NO PARKING ANY TIME (R7-1D)
60	19+90.62	19+90.62	RIGHT	PULL BOX	1 EACH	
60	20+95.11	20+95.11	RIGHT	SIGN	1 EACH	NO PARKING ANY TIME (R7-1D)
60	21+33.62	21+33.62	RIGHT	LIGHT ANCHOR BASE	1 EACH	
60	21+73.12	21+73.12	RIGHT	PULL BOX	1 EACH	
60	21+76.86	21+76.86	RIGHT	SIGN	1 EACH	FOLD-UP STOP SIGN (R1-1)
60	21+78.47	21+78.47	RIGHT	SIGNAL POST	1 EACH	REMOVE BASE TO 1' BELOW EOP
60	21+65.11	21+86.27	RIGHT	CONC ISLAND REMOVAL	23 SY	INCLUDES FULL DEPTH SAW CUT
60	22+28.86	22+77.04	RIGHT	CONC ISLAND REMOVAL	139 SY	INCLUDES FULL DEPTH SAW CUT
60	22+42.33	22+42.33	RIGHT	SIGN	1 EACH	FOLD-UP STOP SIGN (R1-1)
60	22+42.47	22+42.47	RIGHT	SIGNAL POST	1 EACH	REMOVE BASE TO 1' BELOW EOP
60	22+50.75	22+50.75	RIGHT	PULL BOX	1 EACH	
			TOTAL	1	LUMP SUM	
			USE	1	LUMP SUM	

MOBILIZATION
TOTAL = 1 LUMP SUM

ADD MOBILIZATION FOR SEEDING
TOTAL = 1 EA

CONTRACTOR FURNISHED SURVEYING AND STAKING
TOTAL = 1 LUMP SUM

SEED AND MULCH					
ROUTE	STATION	STATION	TEMPORARY SEED AND MULCH (ACRES)	COOL SEASON SEED AND MULCH (ACRES)	REMARKS
60	5+22.41	8+70.42	0.01	0.04	BEGINNING OF PROJECT TO NORTHGATE AVE
60	9+00.43	13+73.88	0.04	0.16	NORTHGATE AVE TO MILLER WAY
60	14+05.28	21+35.02	0.05	0.19	MILLER WAY TO US-37
37	0+50.08	1+86.82	0.01	0.02	EB 60/SB 37 RIGHT TURN TO PROJECT LIMITS
		TOTALS	0.11	0.41	
		USE	0.1	0.4	
NOTE: TEMPORARY IS 25% OF PERMANENT (ROUNDED TO NEAREST 0.10 ACRE)					

PAVEMENT MARKING REMOVAL					
ROUTE	STATION	STATION	MARKING PAINT REMOVAL 6" SOLID WHITE (LF)	PREFORMED THERMOPLASTIC REMOVAL 24" STOP LINE (LF)	REMARKS
37	0+44.19	1+50.00	118		NB 37/EB 60 RIGHT TURN LANE LINE
60	23+00.66	24+05.27	106		EB 60 LANE LINE
60	21+42.55	21+44.55		12	EB 60 STOP LINE
60	21+67.53	21+69.53		12	EB 60 STOP LINE
60	22+09.22	22+21.39		12	NB 37 STOP LINE
60	22+17.57	22+29.47		12	NB 37 STOP LINE
		TOTALS	224	48	
		USE	272	LF	

EARTHWORK							
ROUTE	STATION	STATION	CLASS A EXCAVATION (CY)	COMPACTING EMBANKMENT (CY)	COMPACTING IN CUT (STA)	CLASS 2 LINEAR GRADING (STA)	REMARKS
60	5+22.41	22+78.54	1153.3	452.4			
60	5+22.41	8+71.01				3.5	GRADE DITCH TO DRAIN TO CULVERT
60	5+22.41	22+78.54			17.6		
37	0+49.18	1+90.49			1.4		
		TOTALS	1153.3	452.4	19.0	3.5	
		USE	1153.0	452.0	19.0	3.5	

TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES							
ROUTE	STATION	STATION	ROCK DITCH CHECKS (LF)	SEDIMENT TRAP (CY)	SILT FENCE (LF)	SEDIMENT REMOVAL (CY)	REMARKS
60	9+08.06	13+55.41			471	5	
60	14+19.47	21+75.37			919	9	
60	5+41.69	5+41.69		7.0		1	
60	6+73.50	8+23.50	20			2	
60	18+30.78	18+30.78		9.0		1	
		TOTALS	20	16.0	1390	18	
		USE	20	16.0	1390	18	
NOTE: SEDIMENT REMOVAL IS BASED ON 1 CY PER DITCH CHECK, 1 CY PER SEDIMENT TRAP, AND 1 CY PER 100' OF SILT FENCE.							

SUMMARY SHEET
SHEET 1 OF 4

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 1/9/2018
ROUTE 60/37 | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY BARRY
JOB NO. J7P0881
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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105 WEST CAPITOL
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

PAVING											
ROUTE	STATION	STATION	WIDTH	4" TYPE 5 AGGREGATE BASE	OPTIONAL PAVEMENT	A2 SHOULDER	8" CONCRETE MEDIAN STRIP	ASPHALT OVERLAY (PG64-22) (BP-1)	TACK COAT	TEMPORARY SURFACING	REMARKS
			(LF)	(SY)	(SY)	(SY)	(SY)	(TONS)	(GAL)	(TONS)	
60	5+22.41	17+90.00	12	1693.7	1693.7						EB ROUTE 60
60	17+90.00	18+90.00	VARIES	200.0	200.0						EB ROUTE 60 RIGHT TURN TAPER
60	18+90.00	22+66.33	24	910.2	910.2						EB ROUTE 60/ RIGHT TURN LANE
60	22+66.33	22+78.54	VARIES	20.5	20.5						EB ROUTE 60
60	21+03.47	21+88.26	VARIES	108.5			108.5				EB 60/SB 37 RIGHT TURN ISLAND
60	22+30.92	22+48.36	VARIES	36.2			36.2				NB 37/EB 60 RIGHT TURN ISLAND
60	5+22.41	8+54.89	2	74.1		74.1					BEGINNING OF PROJECT TO NORTHGATE AVE
60	8+54.89	9+11.82	VARIES					19.1	5.9		NORTHGATE AVE ENTRANCE
60	9+11.81	13+59.70	2	100.0		100.0					NORTHGATE AVE TO MILLER WAY
60	13+59.70	14+22.73	VARIES					19.4	6.0		MILLER WAY ENTRANCE
60	14+22.73	21+35.02	2	157.4		157.4					MILLER WAY TO US-37
37	0+41.90	0+45.44	38	15.0	15.0						ROUTE 37
37	0+41.90	1+86.75	VARIES	408.8	408.8						SW RIGHT TURN LANE
37	0+47.82	0+85.88	VARIES	63.3	63.3						SE RIGHT TURN LANE
60			VARIES							5.0	TO MAINTAIN ACCESS AT SIDE ROADS
37			VARIES							26.0	FOR SEQUENCING AT INTERSECTION
			TOTALS	3787.7	3311.5	331.5	144.7	38.5	11.9	31.0	
			USE	3788.0	3311.5	331.5	144.7	38.5	12.0	31.0	

NOTE: 8.5" PCCP OR 11.0" HMA (1-3/4" SP125C W/ PG 70-22, 3" SP250C W/ PG 70-22, 6-1/4" SP250C W/ PG 64-22). TACK COAT RATE IS 0.05 GAL/CY. TACK COAT IS INCIDENTAL TO OPTIONAL PAVEMENT.
NOTE: TEMPORARY SURFACING TO PROVIDE TEMPORARY ACCESS TO NORTHGATE AVE AND MILLER WAY DURING CONSTRUCTION AND TO PROVIDE BUFFER SPACE WHILE CONSTRUCTING THE SW RIGHT TURN LANE

SIGN RELOCATIONS			
ROUTE	LOCATION	RELOCATE SIGN (EA)	REMARKS
60	VARIES	8.0	SEE SIGNING SHEETS FOR LOCATIONS
	TOTAL	8.0	
	USE	8	

PAVEMENT EDGE TREATMENT				
ROUTE	STATION	STATION	EDGE TREATMENT (LF)	REMARKS
60	5+22.41	22+78.54	1874.0	
37	0+49.18	0+83.68	34.5	
37	0+49.18	1+90.49	141.3	
		TOTAL	2049.8	
		USE	2050	

MODIFIED COLD MILLING (DEPTH TRANSITIONS)			
STATION	STATION	QUANTITY (SY)	REMARKS
8+53.20	9+13.92	117.6	NORTHGATE AVENUE
13+50.29	14+23.91	119.6	MILLER WAY
	TOTAL	237.2	
	USE	237	

SUMMARY SHEET
SHEET 2 OF 4

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DATE PREPARED 1/9/2018
ROUTE 60/37 | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY BARRY
JOB NO. J7P0881
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

PAVEMENT MARKING (PERMANENT)

ROUTE	STATION	STATION	PREFORMED THERMOPLASTIC			HIGH BUILD MARKING PAINT				REMARKS
						TYPE L BEADS			TYPE P BEADS	
			PREFORMED RIGHT ARROW (EA)	YIELD LINE TRIANGLES (12") (EA)	STOP LINE (24") (LF)	6" SOLID WHITE (LF)	6" INTERMITTENT WHITE (LF)	6" DOTTED WHITE (LF)	8" SOLID WHITE (LF)	
60	5+22.41	6+22.41				100.7				EB 60 EDGE TAPER
60	5+22.41	7+12.53						63.4		EB 60 LANE LINE
60	6+22.41	7+12.53				90.1				EB 60 EDGE LINE
60	7+12.53	19+03.81					397.8			EB 60 LANE LINE
60	19+03.81	21+68.23				264.4				EB 60 LANE LINE
60	7+12.53	17+90.03				1080.8				EB 60 EDGE LINE
60	17+90.03	18+90.03						33.3		EB 60 LANE LINE
60	17+90.03	21+67.11				379.6				EB 60/SB 37 RIGHT TURN EDGE LINE
60	18+90.03	21+88.72				298.7				EB 60 LANE LINE
60	20+60.99	21+92.68				134.1				EB 60 RIGHT TURN LANE
60	18+90.03	18+90.03	1.0							EB 60 RIGHT TURN LANE
60	20+91.32	20+91.32	1.0							EB 60 RIGHT TURN LANE
60	21+02.80	21+88.92							193.3	EB 60/SB 37 RIGHT TURN ISLAND
60	21+65.76	21+69.45		11.0						EB 60/SB 37 RIGHT TURN YIELD LINE
60	21+68.23	21+70.23			24.0					EB 60 STOP LINE
60	22+09.09	22+21.25			12.0					NB 37 STOP LINE
60	22+17.57	22+29.73			12.0					NB 37 STOP LINE
60	22+27.68	22+53.47				25.8				EB 60 LANE LINE
60	22+30.26	22+48.99							84.6	NB 37/EB 60 RIGHT TURN ISLAND
60	22+48.16	22+64.95		16.0						NB 37/EB 60 RIGHT TURN YIELD LINE
37	0+29.17	0+54.86				25.7				SB 37 LANE LINE
37	0+35.17	0+85.37				50.2				NB 37 LANE LINE
37	0+39.15	0+85.37				52.8				NB 37/EB 60 RIGHT TURN LANE LINE
37	0+58.63	1+86.75				139.5				EB 60/SB 37 RIGHT TURN EDGE LINE
37	0+44.30	1+50.00				137.9				NB 37/EB 60 RIGHT TURN EDGE LINE
60	23+01.46	24+05.27				103.8				EB 60 EDGE LINE
		TOTALS	2.0	27.0	48.0	2884.1	397.8	96.7	277.9	
		USE	2.0	27.0	48.0	2884.0	398.0	97.0	278.0	
						TOTAL 6" WHITE =	3379.0	LF		

LIGHTING- CONDUIT, CABLE, AND TRENCHING

FROM	TO	CIRCUIT NO.	TRENCHING TYPE I (FT)	1 " CABLE CONDUIT 2C-#8 AWG (FT)	POLE & BRACKET CABLE 1C- #10 AWG (FT)	POWER CABLE 1C-#2 AWG (FT)	BASE, CONCRETE (CY)	2" CONDUIT (TRENCHED) (FT)	3" CONDUIT (TRENCHED) (FT)	4" CONDUIT (TRENCHED) (FT)	4" CONDUIT (PUSHED) (FT)	REMARKS
PS	LT CONT					303	SEE D-37A	85				3 RUNS OF 101' - #2 AWG CABLE
LT CONT	PB 11	--							18			2 RUNS OF 9' - 3" CONDUIT
PB 11	PB 12	1, 2, 3	35									
PB 11	PB 15	4	22									
LT CONT	LUM A	1	13	189	120							
LT CONT	LUM B	2	37	380	120					31	122	
LT CONT	LUM C	3	52	543	120					7	91	
LT CONT	LUM D	4	14	302	120					10	89	
		TOTALS	173	1414	480	303	SEE D-37A	85	18	48	302	
		USE	173	1490	480	300	SEE D-37A	85	18	48	302	

NOTE: SEE SIGNAL PLAN SHEET 2 (D-37A SHEET) FOR PULL BOX INFORMATION AND CONCRETE BASE QUANTITIES
NOTE: 1" CABLE CONDUIT 2C-#8 AWG INCLUDES EXTRA 5% FOR SNAKING

LIGHTING- EQUIPMENT

STATION	OFFSET	LOCATION	240V- 4 CIRC BASE MOUNTED CONT. STATION (EA)	RELOCATE EXISTING LIGHTING POLE (EA)	POLE FOUNDATION 45' MOUNT HT (EA)	REMARKS
22+95.51	73.58' RT	SE CORNER	1			
19+83.66	53.50' RT	SW CORNER		1	1	
		TOTALS	1	1	1	
		USE	1	1	1	

SUMMARY SHEET
SHEET 3 OF 4

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EFFECTIVE: 03-07-2017

SIGN	SIZE (IN.)	AREA (SQ. FT.)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION
WARNING SIGNS							
W01-1L	48X48	16.00					TURN (SYMBOL LEFT ARROW)
W01-1R	48X48	16.00					TURN (SYMBOL RIGHT ARROW)
W01-2L	48X48	16.00					CURVE (SYMBOL LEFT ARROW)
W01-2R	48X48	16.00					CURVE (SYMBOL RIGHT ARROW)
W01-3L	48X48	16.00					REVERSE TURN (SYMBOL LEFT ARROW)
W01-3R	48X48	16.00					REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4L	48X48	16.00					REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4R	48X48	16.00					REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4bL	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
W01-4bR	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
W01-4cL	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
W01-4cR	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
W01-6	60X30	12.50					HORIZONTAL ARROW (SYMBOL)
W01-6a	72X36	18.00					HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE)
W01-7	60X30	12.50					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	72X36	18.00					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE)
W01-8	18X24	3.00					CHEVRON (SYMBOL)
W01-8a	30X36	7.50					CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
W03-1	48X48	16.00					STOP AHEAD (SYMBOL)
W03-2	48X48	16.00					YIELD AHEAD (SYMBOL)
W03-3	48X48	16.00					SIGNAL AHEAD (SYMBOL)
W03-4	48X48	16.00					BE PREPARED TO STOP
W03-5	48X48	16.00					SPEED LIMIT AHEAD
W04-1L	48X48	16.00					MERGE (SYMBOL FROM LEFT)
W04-1aL	48X48	16.00					MERGE (LEFT ARROW AT LANE DROP)
W04-1R	48X48	16.00					MERGE (SYMBOL FROM RIGHT)
W04-1aR	48X48	16.00					MERGE (RIGHT ARROW AT LANE DROP)
W05-1	48X48	16.00	2	32			ROAD/BRIDGE/RAMP NARROWS
W05-3	48X48	16.00					ONE LANE BRIDGE
W05-5	48X48	16.00					NARROW LANES
W06-1	48X48	16.00					DIVIDED HIGHWAY (SYMBOL)
W06-2	48X48	16.00					DIVIDED HIGHWAY END (SYMBOL)
W06-3	48X48	16.00					TWO WAY TRAFFIC (SYMBOL)
W07-3a	30X24	5.00					NEXT XX MILES (PLAQUE)
W08-1	48X48	16.00					BUMP
W08-2	48X48	16.00					DIP
W08-3	48X48	16.00					PAVEMENT ENDS
W08-4	48X48	16.00					SOFT SHOULDER
W08-5	48X48	16.00					SLIPPERY WHEN WET (SYMBOL)
W08-6	48X48	16.00					TRUCK CROSSING WITH FLAGS
W08-6c	48X48	16.00					TRUCK ENTRANCE
W08-7	36X36	9.00					LOOSE GRAVEL
W08-9	48X48	16.00					LOW SHOULDER
W08-11	48X48	16.00					UNEVEN LANES
W08-12	48X48	16.00					NO CENTER LINE
W10-1	42 RND.	9.62					RAILROAD CROSSING
W012-1	24X24	4.00					DOUBLE DOWN ARROW (SYMBOL)
W012-2	48X48	16.00					LOW CLEARANCE (SYMBOL)
W012-2x	24X18	3.00					LOW CLEARANCE (PLAQUE)
W012-2a	84X24	14.00					OVERHEAD LOW CLEARANCE (FEET AND INCHES)
W08-15	48X48	16.00					GROOVED PAVEMENT
W08-15p	30X24	5.00					MOTORCYCLE (PLAQUE)
W08-17	48X48	16.00	2	32			SHOULDER DROP-OFF (SYMBOL)
W08-17p	30X24	5.00	2	10			SHOULDER DROP-OFF (PLAQUE)
SPECIAL	120X60	50.00					LOW CLEARANCE XX FT XX IN XX MILES AHEAD
SPECIAL	120X60	50.00					WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
W013-1	30X30	6.25					ADVISORY SPEED (PLAQUE)
W016-2	30X24	5.00					XXX FEET (PLAQUE)
W016-3	30X24	5.00					X MILE (PLAQUE)
W020-1	48X48	16.00	8	128			ROAD/BRIDGE/RAMP WORK AHEAD
W020-2	48X48	16.00					DETOUR AHEAD
W020-3	48X48	16.00	1	16			ROAD CLOSED AHEAD (350 FT)
W020-4	48X48	16.00					ONE LANE ROAD AHEAD
W020-5	48X48	16.00	2	32			RIGHT/CENTER/LEFT LANE CLOSED AHEAD
W020-5a	48X48	16.00					2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
W020-6a	48X48	16.00	1	16			RIGHT/CENTER/LEFT LANE CLOSED
W020-7a	48X48	16.00					FLAGGER (SYMBOL) WITH FLAGS
W021-2	36X36	9.00					FRESH OIL
W021-5	48X48	16.00	5	80			SHOULDER WORK AHEAD
W022-1	48X48	16.00					BLASTING ZONE AHEAD
W022-2	42X36	10.50					TURN OFF 2-WAY RADIO AND PHONE
W022-3	42X36	10.50					END BLASTING ZONE
W022-6e	21X15	2.19	4	8.75			WET PAINT (ARROW PIVOTS)
GUIDE SIGNS							
SPECIAL	36X36	9.00					FRESH OIL/LOOSE GRAVEL
E05-1	36X48	12.00					GORE EXIT
E05-2	48X36	12.00					EXIT OPEN
E05-2a	48X36	12.00					EXIT CLOSED
G020-1	60X24	10.00					ROAD WORK NEXT XX MILES
G020-2	48X24	8.00	4	32			END ROAD WORK
G020-4	36X18	4.50					PILOT CAR FOLLOW ME
SPECIAL	42X30	8.75					PLEASE WAIT FOR PILOT CAR
G020-5aP	36X24	6.00	4	24			WORK ZONE (PLAQUE)
M04-8a	24X18	3.00					END DETOUR
M04-9L	48X36	12.00					DETOUR (LEFT ARROW)
M04-9R	48X36	12.00					DETOUR (RIGHT ARROW)
M04-10L	48X18	6.00					DETOUR (ARROW LEFT)
M04-10R	48X18	6.00					DETOUR (ARROW RIGHT)
REGULATORY SIGNS							
R1-1	48X48	13.25					STOP
R1-2	48 TRI.	6.93					YIELD
R1-2a	36X36	9.00					TO ONCOMING TRAFFIC (PLAQUE)
R1-3	20X9	1.25					X-WAY (PLAQUE)
R2-1	36X48	12.00	5	60			SPEED LIMIT XX (3-35) (2-45)
R3-1	48X48	16.00					NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00					NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00					NO TURNS
R3-4	48X48	16.00					NO U-TURN (SYMBOL)
R3-7L	30X30	6.25					LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25					RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00					DO NOT PASS
R4-2	36X48	12.00					PASS WITH CARE
R4-7aL	36X48	12.00					KEEP LEFT (HORIZONTAL ARROW)
R4-7a	36X48	12.00					KEEP RIGHT (HORIZONTAL ARROW)
R5-1	30X30	6.25					DO NOT ENTER
R5-1a	36X24	6.00					WRONG WAY
R6-1L	48X18	6.00					ONE WAY ARROW (LEFT)
R6-1R	48X18	6.00					ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00					ONE WAY (LEFT)
R6-2R	24X30	5.00					ONE WAY (RIGHT)
R10-6	24X36	6.00					STOP HERE ON RED (45° ARROW)
R11-2	48X30	10.00	1	10			ROAD CLOSED
R11-3a	60X30	12.50					ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50					ROAD CLOSED TO THRU TRAFFIC
S4-4	36X15	3.75					WHEN FLASHING
CONST-3A	60X48	20.00					FINE SIGN
CONST-3X	56X12	4.67					SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS							
SPECIAL	36X48	12.00					POINT OF PRESENCE
SPECIAL	96X48	32.00	3	96			POINT OF PRESENCE (CONST-5-96)
SPECIAL	48X36	12.00	3	36			WORK ZONE NO PHONE ZONE
CONST-7-48	48X24	8.00					RATE OUR WORK ZONE
CONST-7-72	72X36	18.00	2	36			RATE OUR WORK ZONE
616-10.05 CONSTRUCTION SIGNS TOTAL				648.75		649.0	
616-10.10 RELOCATED SIGNS TOTAL							

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR (8 SAND BARRELS)
6122009		IMPACT ATTENUATOR (9 SAND BARRELS)
6122010		IMPACT ATTENUATOR (10 SAND BARRELS)
6122012		IMPACT ATTENUATOR (12 SAND BARRELS)
6122014		IMPACT ATTENUATOR (14 SAND BARRELS)
6122017		IMPACT ATTENUATOR (17 SAND BARRELS)
6122019		IMPACT ATTENUATOR (19 SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6123000A	1	TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)
6161007		SPEED LIMIT AND STROBE LIGHT ASSEMBLY
6161008	4	ADVANCED WARNING RAIL SYSTEM
6161009	11	FLAG ASSEMBLY
6161020		CHANNELIZER (DRUM-LIKE)
6161022		CHANNELIZER (CONES)
6161024		CHANNELIZER (TRIM LINE) WITH LIGHT
6161025	129	CHANNELIZER (TRIM LINE)
6161026		CHANNELIZER (VERTICAL PANEL)
6161027		CHANNELIZER (VERTICAL PANEL) WITH LIGHT
6161028		CHANNELIZER
6161030	5	TYPE III MOVEABLE BARRICADE
6161031		TYPE III MOVEABLE BARRICADE WITH LIGHT
6161033		DIRECTION INDICATOR BARRICADE
6161034		DIRECTION INDICATOR BARRICADE, WITH LIGHT
6161040	2	FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161051		WARNING LIGHT, TYPE A
6161052		WARNING LIGHT, TYPE B
6161053		WARNING LIGHT, TYPE C
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A		CHANGEABLE MESSAGE SIGN WITHOUT COMMUNICATION INTERFACE, CONTRACTOR FURNISHED/RETAINED
6161099	3	CHANGEABLE MESSAGE SIGN WITH COMMUNICATION INTERFACE, CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6173600D		CONTRACTOR FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER
6173602B		CONTRACTOR FURNISHED/COMMISSION RETAINED TEMPORARY TRAFFIC BARRIER
6174000A		TEMPORARY TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		COMMISSION FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER
6177000B		COMMISSION FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER HEIGHT TRANSITION
9019400		TEMPORARY LIGHTING
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

SUMMARY SHEET
SHEET 4 OF 4

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 11/30/2017
ROUTE 60/37 | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY BARRY
JOB NO. J7P0881
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

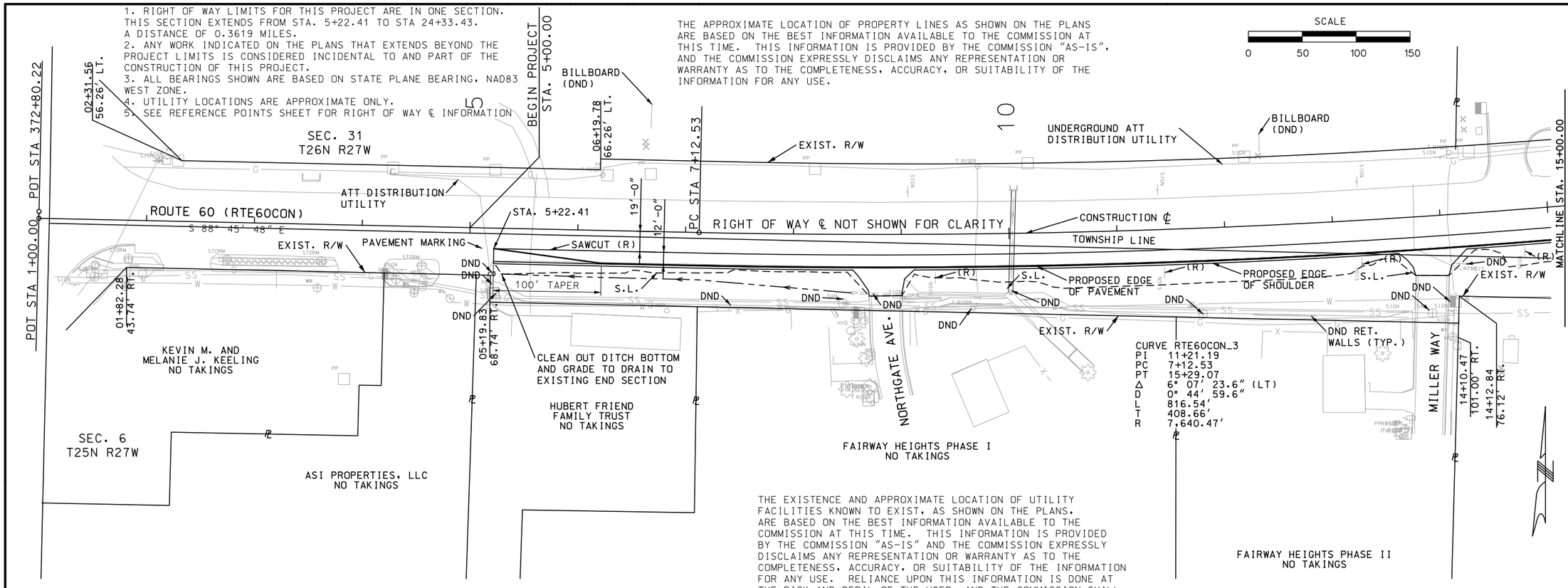
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett&West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

1. RIGHT OF WAY LIMITS FOR THIS PROJECT ARE IN ONE SECTION. THIS SECTION EXTENDS FROM STA. 5+22.41 TO STA 24+33.43. A DISTANCE OF 0.3619 MILES.
2. ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND PART OF THE CONSTRUCTION OF THIS PROJECT.
3. ALL BEARINGS SHOWN ARE BASED ON STATE PLANE BEARING, NAD83 WEST ZONE.
4. UTILITY LOCATIONS ARE APPROXIMATE ONLY.
5. SEE REFERENCE POINTS SHEET FOR RIGHT OF WAY ℄ INFORMATION

THE APPROXIMATE LOCATION OF PROPERTY LINES AS SHOWN ON THE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS", AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE.

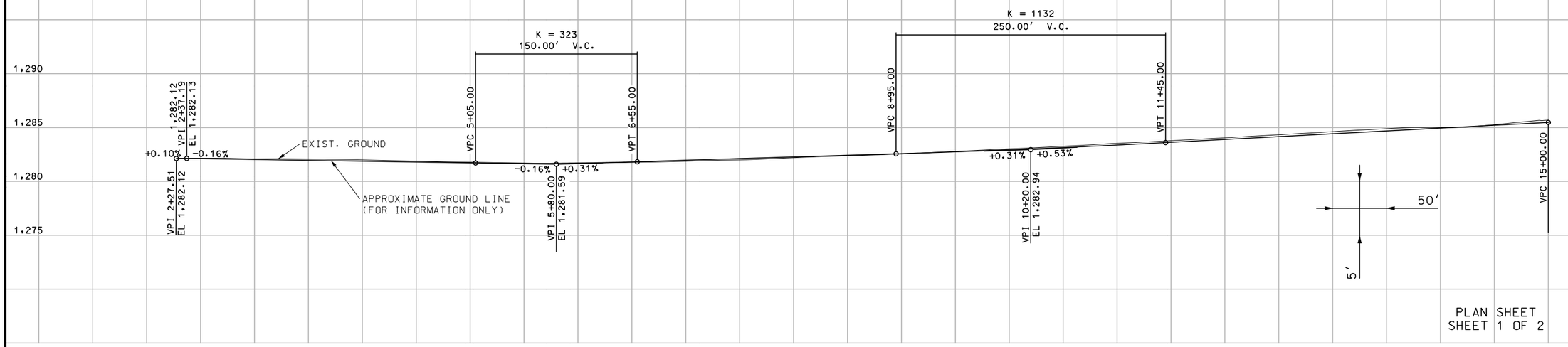
SCALE
0 50 100 150



THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION.

NOTE:
FOR DETAILS OF PAVEMENT GEOMETRY NOT SHOWN, SEE TYPICAL SECTION SHEETS.

CLASS A EXCAVATION- 1153 CY; COMPACTING EMBANKMENT- 452 CY



PLAN SHEET
SHEET 1 OF 2

2 3 4 5 6 7 8 9 10 11 12 13 14 15

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 11/30/2017
ROUTE 60/37 | STATE MO
DISTRICT SW | SHEET NO. 4
COUNTY BARRY
JOB NO. J7P0881
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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EQUATIONS:
STA 14+12.70 BK =
STA 0+00.00 AH (ROUTE 37)

STA 22+08.75 (CONST ℄) =
STA 0+02.12 (ROUTE 37)

SCALE
0 50 100 150

MATCHLINE STA. 15+00.00

PT STA 15+29.07

EXIST. R/W

21+30.02
61.67' LT.

ROUTE 37 (RTE37EX)
S 8° 04' 03" E

PT STA 22+08.26

24+08.43
127.09' LT.

END PROJECT
STA 24+33.43

SEC. 31
T26N R27W

RIGHT OF WAY ℄ NOT SHOWN FOR CLARITY

N 85° 06' 48" E ROUTE 60 (RTE60CON) N 85° 06' 48" E

CONSTRUCTION ℄

FULL DEPTH PAVEMENT
REPAIR (125 SY)

SAWCUT (R)

PAVEMENT MARKING

PROPOSED EDGE
OF SHOULDER

PROPOSED EDGE
OF PAVEMENT

S.L.

TOWNSHIP LINE

98°52'2"

DND

USE IN PLACE

ENTRANCE RIGHTS-CITY OF MONETT
JOB NO. 60-F-121(6)A
DEED BOOK 211
PAGE 591

CITY OF MONETT
GOLF COURSE
NO TAKINGS

19+44.59
132.41' RT.

ROUTE 37 (RTE37EX)
S 13° 45' 14" E

SEC. 6
T25N R27W

24+18.53
163.42' RT.

23+29.23
285.72' RT.

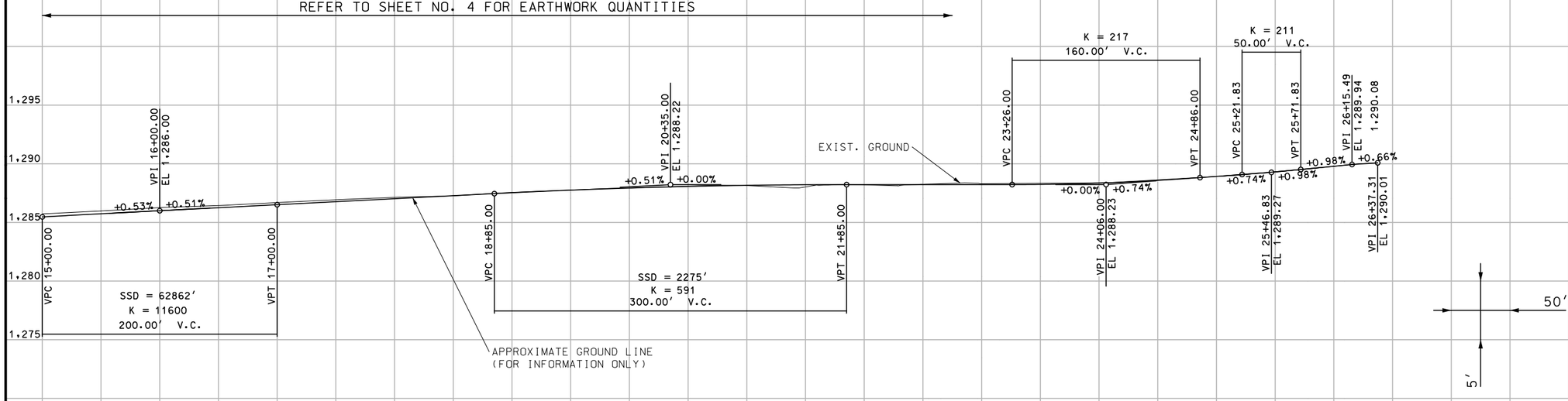
EXIST. R/W

POT STA 3+54.08

POT STA 26+37.31

FOR DETAILS OF PAVEMENT GEOMETRY
SEE SPECIAL SHEETS.

REFER TO SHEET NO. 4 FOR EARTHWORK QUANTITIES



PLAN SHEET
SHEET 2 OF 2

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
11/30/2017

ROUTE	STATE
60/37	MO
DISTRICT	SHEET NO.
SW	5

COUNTY
BARRY

JOB NO.
J7P0881

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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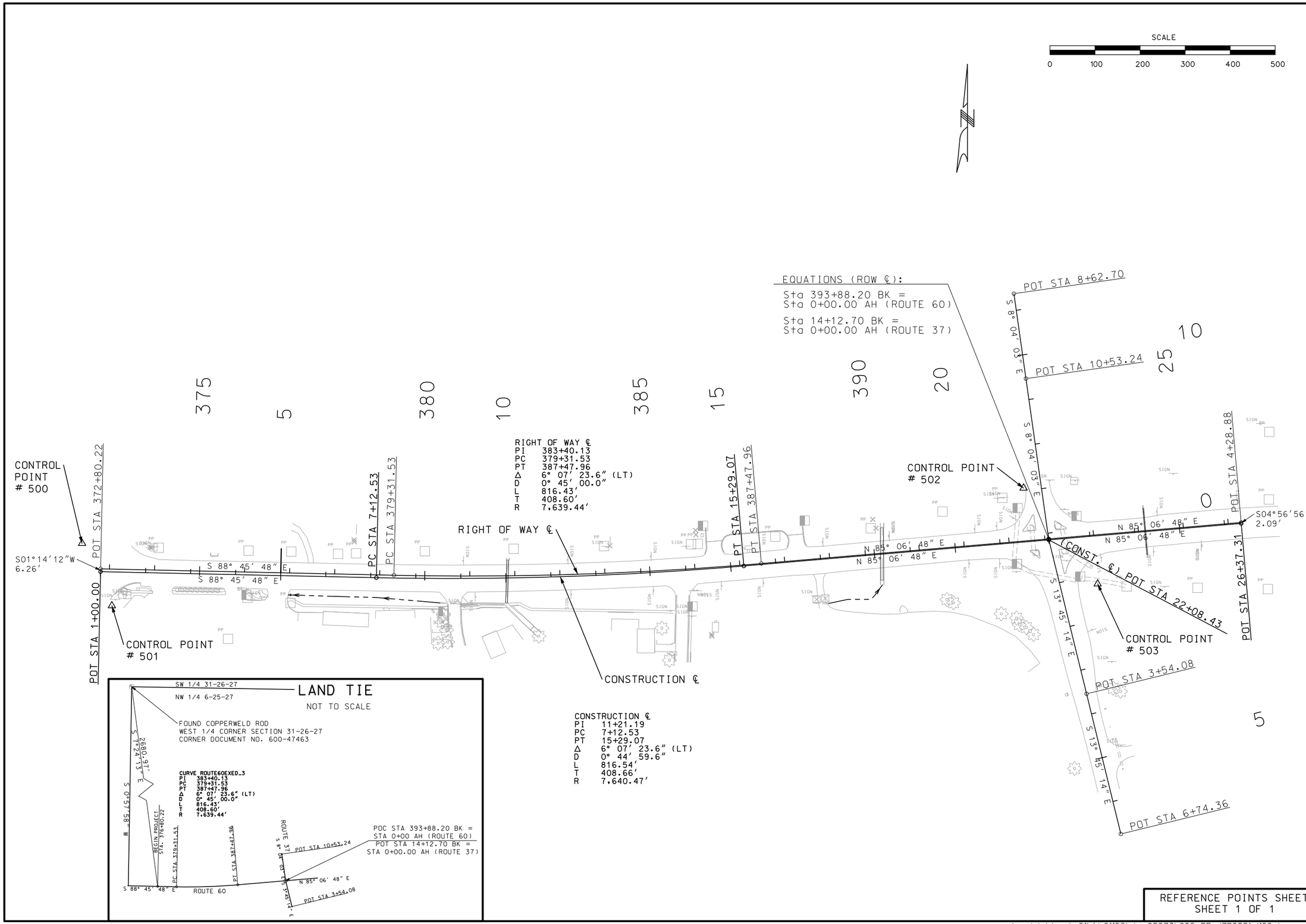

REFERENCE POINTS SHEET
SHEET 1 OF 1

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
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DATE PREPARED 11/30/2017	
ROUTE 60/37	STATE MO
DISTRICT SW	SHEET NO. 6
COUNTY BARRY	
JOB NO. J7P0881	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

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Coordinate Point Listing
Missouri Coordinate System of 1983

Reciprocal Average Grid Factor : 1.000084169

SHEET NO.	STATION[1]	LOCATION	OFFSET[1]	MODIFIED NORTHING (FEET)	MODIFIED EASTING (FEET)	STATE PLANE NORTHING (FEET)	STATE PLANE EASTING (FEET)	DESCRIPTION	DESIGN PT. ID
ROUTE 60 SURVEY CENTERLINE COORDINATES									
6	376+80.22	℄ ROUTE 60	0.00	272733.67871	2954044.78476	272710.72492	2953796.16669	BEGIN PROJECT	
6	379+31.53	℄ ROUTE 60	0.00	272728.25515	2954296.03625	272705.30182	2954047.39703	PC OF CURVE	
6	387+47.96	℄ ROUTE 60	0.00	272754.23634	2955111.66380	272731.28082	2954862.95594	PT OF CURVE	
6	393+88.20 BK	℄ ROUTE 60	0.00	272808.78199	2955749.57669	272785.82188	2955500.81514	INTERSECTION POINT ROUTE 60 AND ROUTE 37	
6	0+00.00 AH	℄ ROUTE 60	0.00	272808.78199	2955749.57669	272785.82188	2955500.81514	SAME AS ABOVE	
6	2+25.00	℄ ROUTE 60	0.00	272872.94844	2955973.75887	272849.98293	2955724.97845	END PROJECT	
ROUTE 60 CONSTRUCTION CENTERLINE COORDINATES									
6	5+00.00	CONST. ℄	0.00	272727.41975	2954044.64965	272704.46649	2953796.03159	BEGIN PROJECT	
6	7+12.53	CONST. ℄	0.00	272722.83317	2954257.12756	272699.88029	2954008.49162	PC OF CURVE	
6	15+29.07	CONST. ℄	0.00	272748.82515	2955072.86513	272725.87009	2954824.16054	PT OF CURVE	
6	22+08.75	CONST. ℄	0.00	272806.72367	2955750.08051	272783.76373	2955501.31892	INTERSECTION POINT CONST. ℄ AND ROUTE 37	
6	24+33.43	CONST. ℄	0.00	272825.86230	2955973.93722	272802.90075	2955725.15679	END PROJECT	
ROUTE 37 CENTERLINE COORDINATES									
6	14+12.70 BK	℄ ROUTE 37	0.00	272808.78199	2955749.57669	272785.82188	2955500.81514	INTERSECTION POINT ROUTE 37 AND ROUTE 60	
6	0+00.00 AH	℄ ROUTE 37	0.00	272808.78199	2955749.57669	272785.82188	2955500.81514	SAME AS ABOVE	
6	0+02.12	℄ ROUTE 37	0.00	272806.72367	2955750.08051	272783.76373	2955501.31892	INTERSECTION POINT ROUTE 37 AND CONST. ℄	

1 Ground Distance

NOTE : The reciprocal of the average grid factor is used as a multiplier from state plane distance to ground distance.

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
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DATE PREPARED 11/30/2017
ROUTE 60/37 | STATE MO
DISTRICT SW | SHEET NO. 7
COUNTY BARRY
JOB NO. J7P0881
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett&West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
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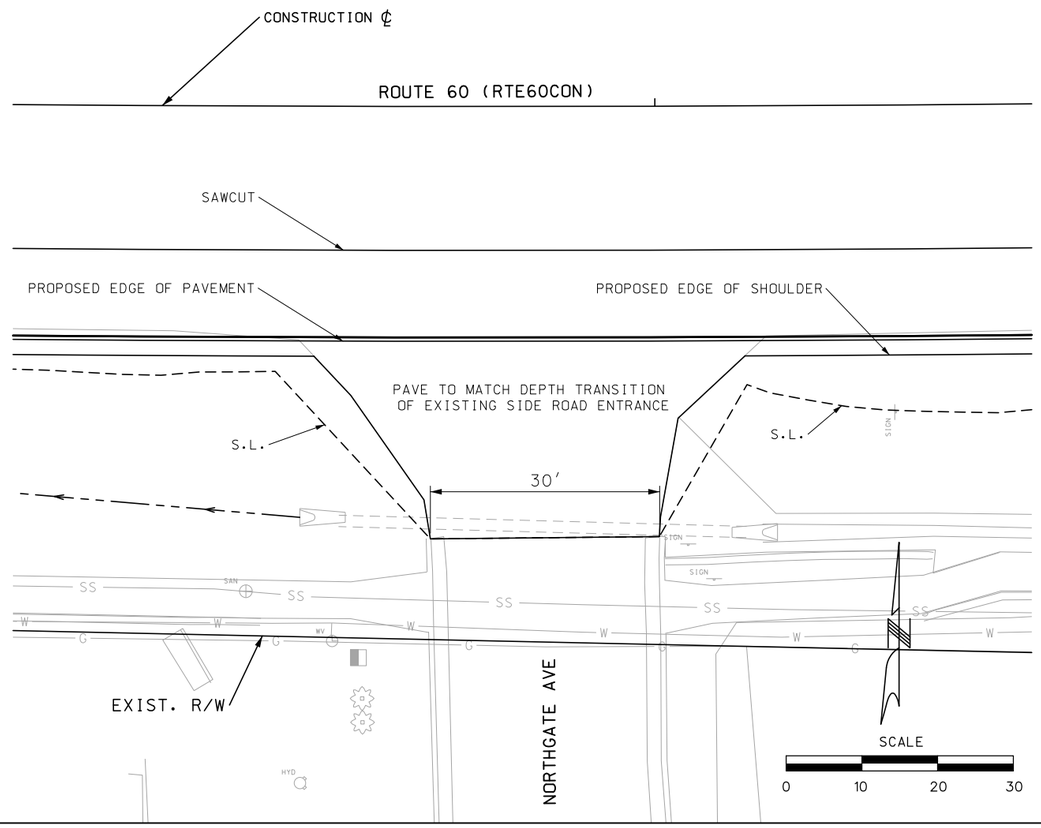
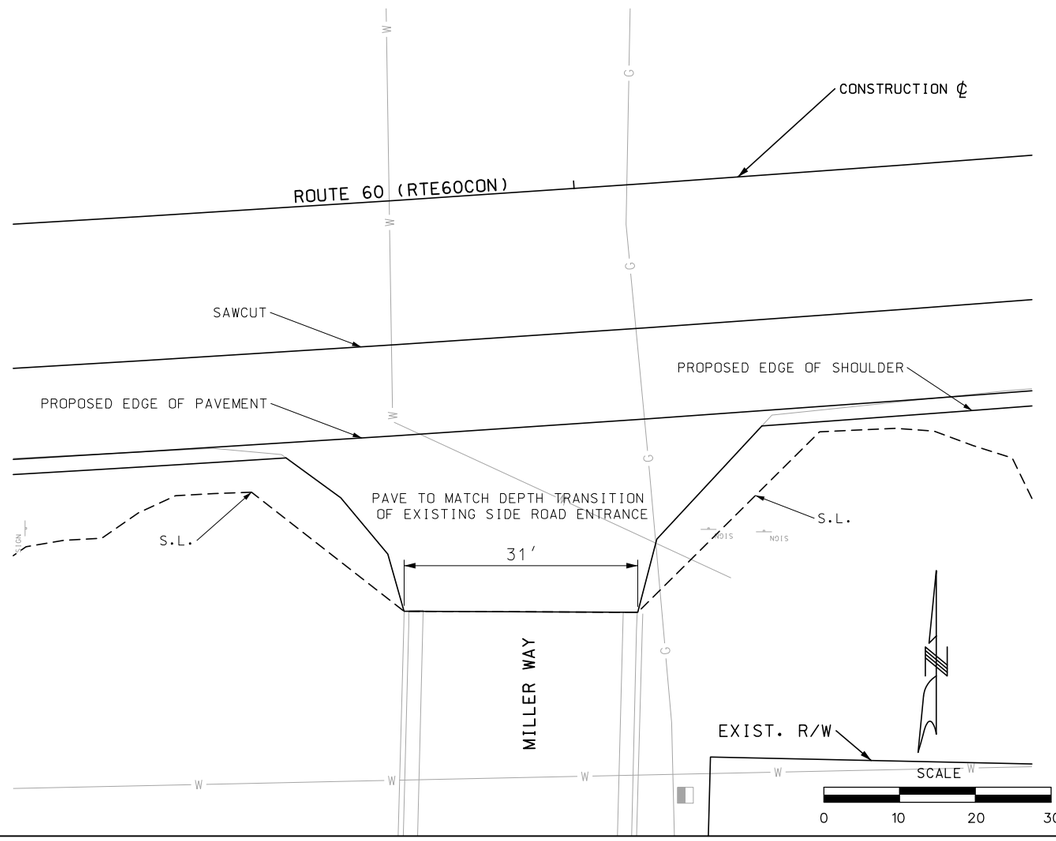
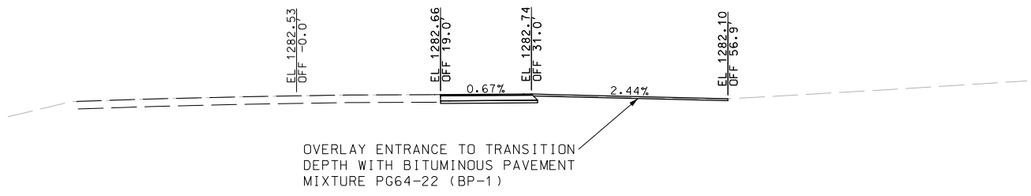
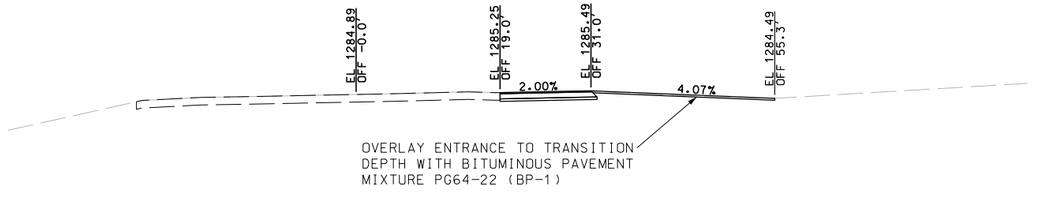
WWW.BARTWEST.COM







Sta. 8+85.43



Sta. 13+89.25

SPECIAL SHEET
SHEET 1 OF 2

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
11/30/2017

ROUTE	STATE
60/37	MO
DISTRICT	SHEET NO.
SW	8

COUNTY
BARRY

JOB NO.
J7P0881

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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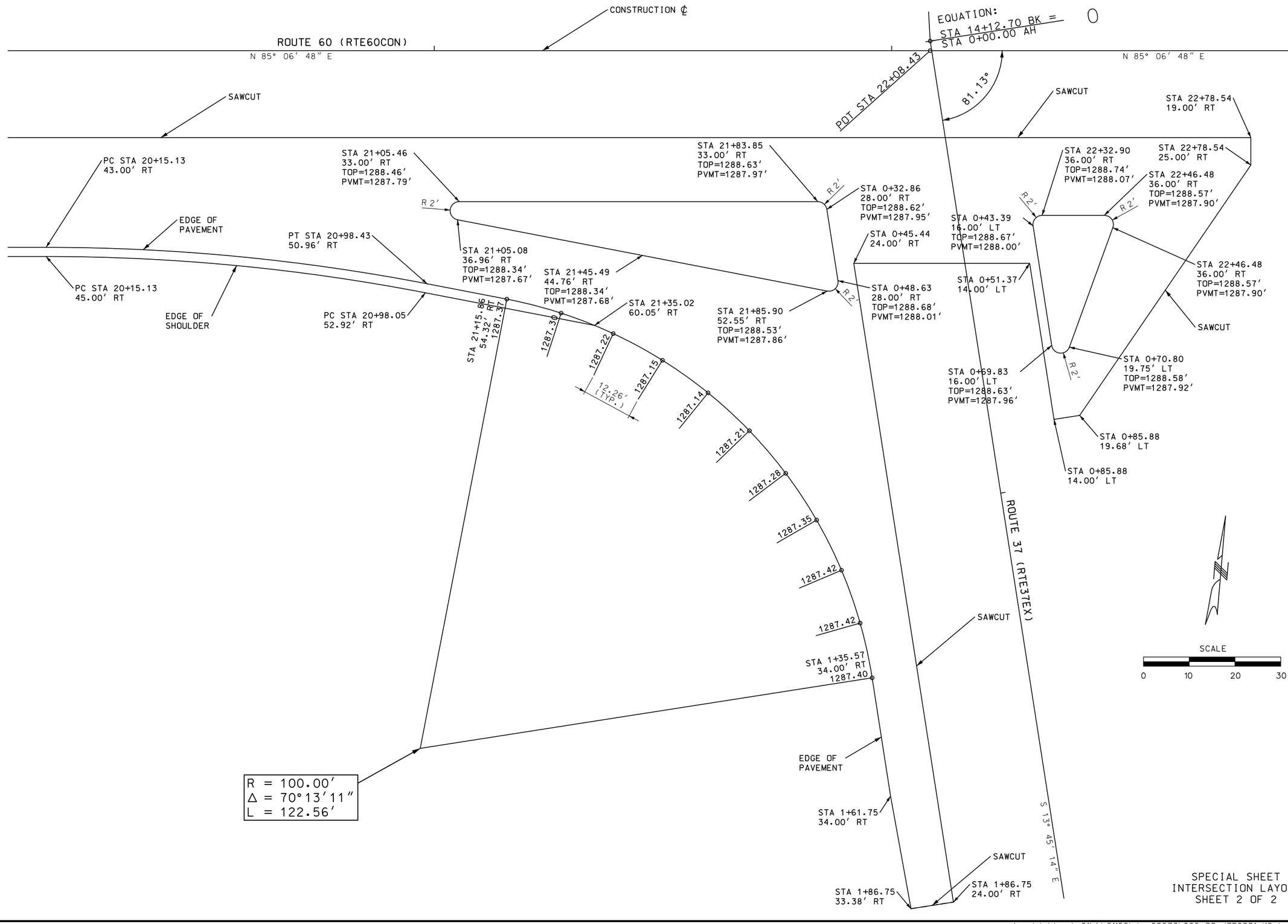

SPECIAL SHEET
INTERSECTION LAYOUT
SHEET 2 OF 2

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
11/30/2017	
ROUTE	STATE
60/37	MO
DISTRICT	SHEET NO.
SW	9
COUNTY	
BARRY	
JOB NO.	
J7P0881	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

NO.	DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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MoDOT
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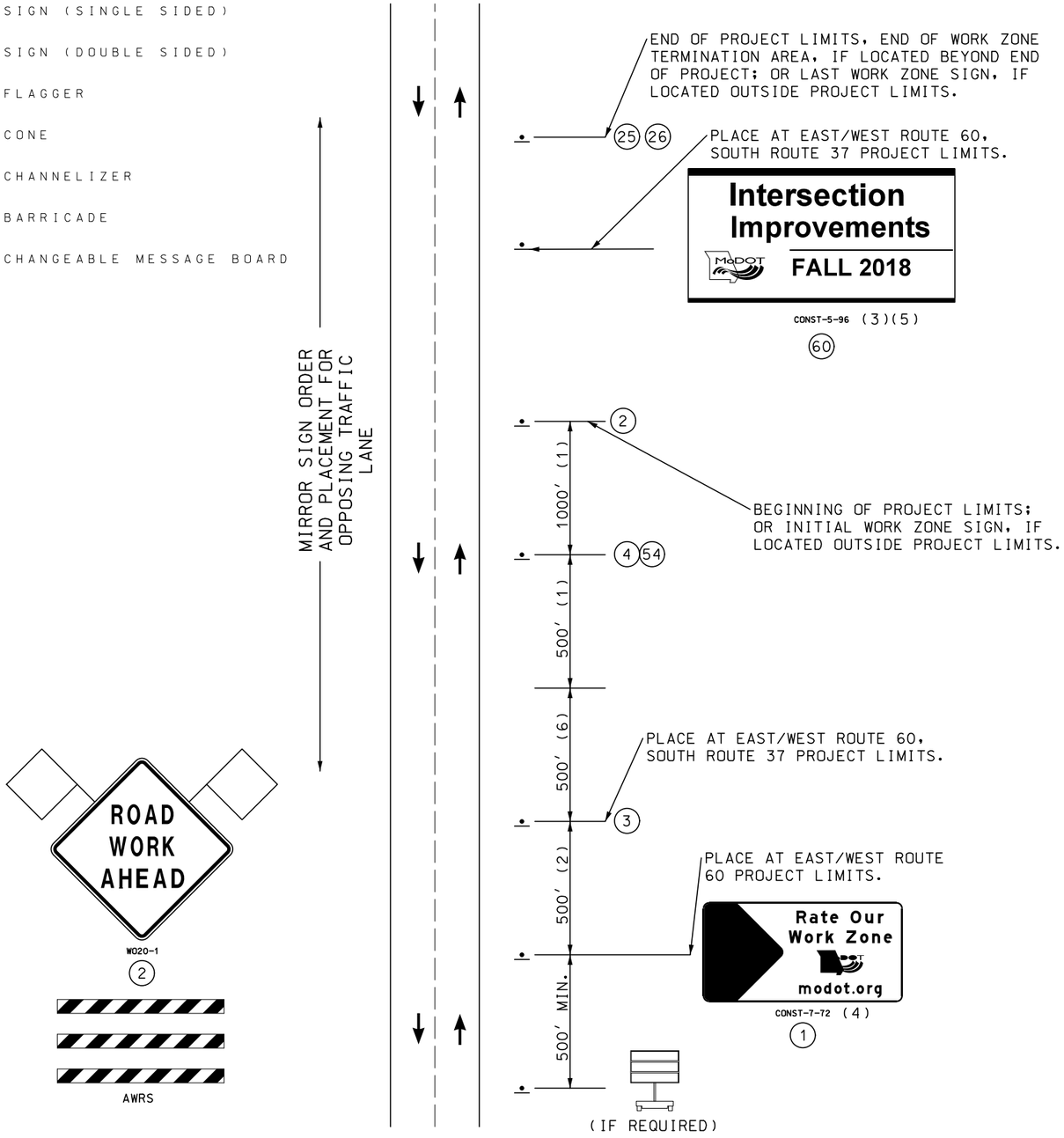
TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD



MULTI-LANE UNDIVIDED
BEGIN/END OF PROJECT SIGNING

NOT TO SCALE

NOTES:

ALL LANES ARE TO BE OPEN DURING NON-WORKING HOURS UNLESS APPROVED IN WRITING BY THE ENGINEER.

MINIMUM WIDTH FOR TRAFFIC LANE IS 10 FEET.

ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

ALL TEMPORARY TRAFFIC CONTROL SIGNS ARE PORTABLE UNLESS OTHERWISE NOTED. ALL SIGNS ON THIS SHEET ARE PERMANENT MOUNTING.

(1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS, WHERE TRAFFIC BREAKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.

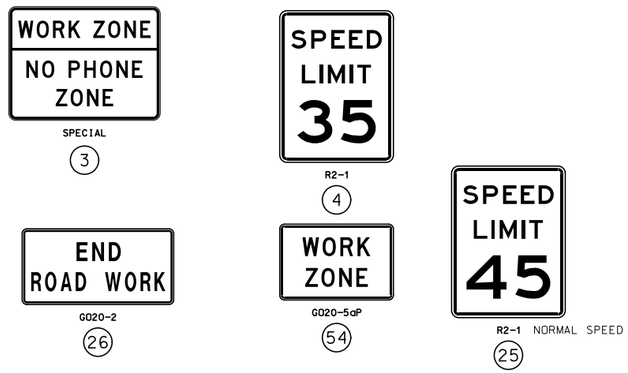
(2) SIGN CONST-7-72 IS PLACED 500 FEET BEFORE THE BEGINNING OF PROJECT LIMITS OR THE ROAD WORK AHEAD SIGN OR ROAD WORK NEXT XX MILES SIGN.

(3) SIGN CONST-5-96 IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS. IF A VISIBLE LOCATION WITHIN THE PROJECT IS NOT AVAILABLE, THE SIGN MAY BE PLACED 500 FEET BEFORE SIGN CONST-7-72 OR CONST-7-48. COMPLETION DATE TO BE VERIFIED WITH ENGINEER PRIOR TO INSTALLING SIGN.

(4) THE "RATE OUR WORK ZONE" SIGN IS AVAILABLE IN TWO SIZES DEPENDING ON ROADWAY CONDITIONS. THE 48 IN. X 24 IN. SIGN IS USED ON LOW VOLUME ROUTES THAT CARRY 400 ADT OR LESS, ON PROJECTS THAT HAVE A DURATION OF 4 WEEKS OR LESS, OR IN URBAN AREAS WHERE THERE IS INSUFFICIENT RIGHT OF WAY FOR A SIX FOOT WIDE SIGN. THE 72 IN. X 36 IN. VERSION OF THE SIGN IS USED IN ALL OTHER APPLICATIONS, BUT CAN ALSO BE USED IN PLACE OF THE 48 IN. X 24 IN. SIGN IF ADDED EMPHASIS IS DEEMED NECESSARY.

(5) THE "POINT OF PRESENCE" SIGN IS AVAILABLE IN TWO SIZES DEPENDING ON ROADWAY CONDITIONS. THE 48 IN. X 36 IN. SIGN IS USED ON LOW VOLUME ROUTES THAT CARRY 400 ADT OR LESS, ON PROJECTS THAT HAVE A DURATION OF 4 WEEKS OR LESS, OR IN URBAN AREAS WHERE THERE IS INSUFFICIENT LIGHTS OF WAY FOR A EIGHT FOOT WIDE SIGN. THE 96 IN. X 48 IN. VERSION OF THE SIGN IS USED IN ALL OTHER APPLICATIONS, BUT CAN ALSO BE USED IN PLACE OF THE 48 IN. X 36 IN. SIGN IF ADDED EMPHASIS IS DEEMED NECESSARY.

(6) THE "WORK ZONE NO PHONE ZONE" SIGN IS PLACED A MINIMUM OF 500 FEET BEFORE THE ROAD WORK AHEAD SIGN.



BEGIN/END
TEMPORARY
TRAFFIC CONTROL
SHEET 1 OF 9

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

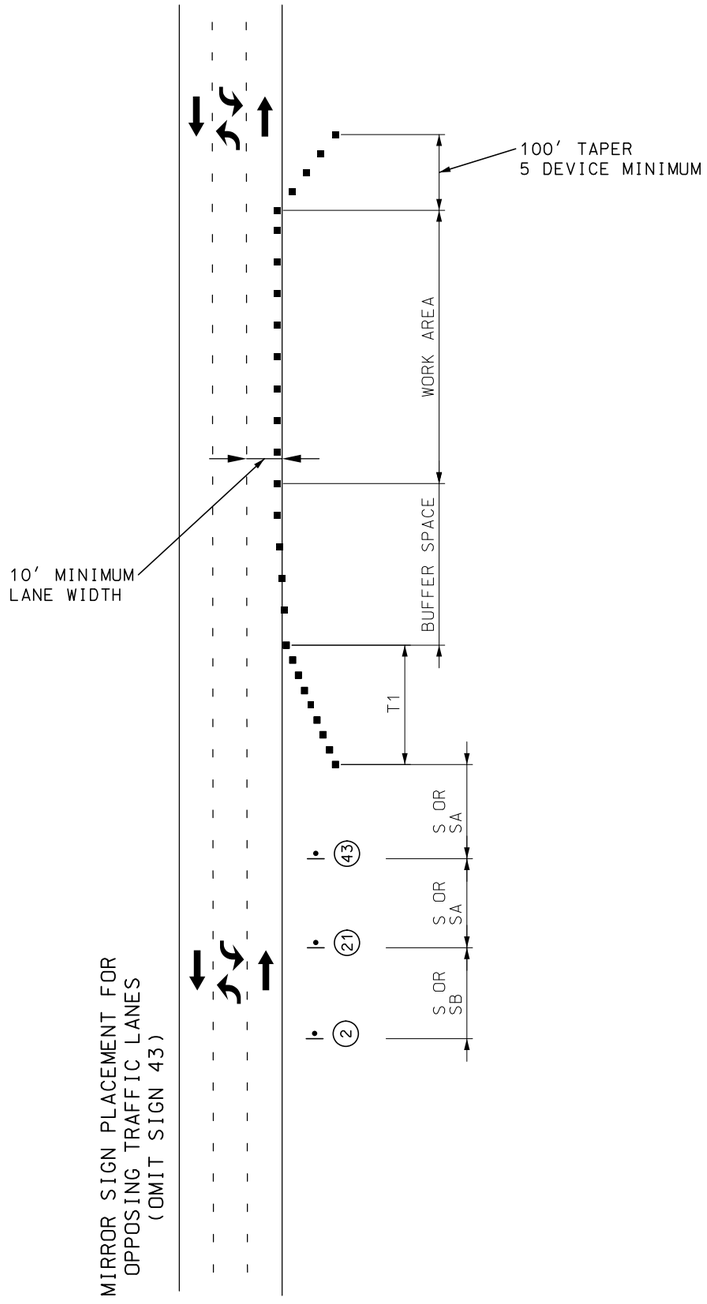
DATE PREPARED 11/30/2017
ROUTE 60/37 | STATE MO
DISTRICT SW | SHEET NO. 10
COUNTY BARRY
JOB NO. J7P0881
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

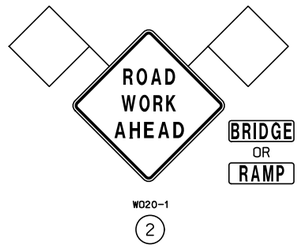
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

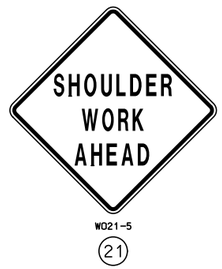
Bartlett&West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

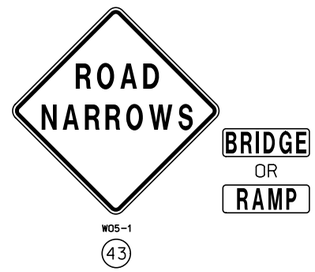


MIRROR SIGN PLACEMENT FOR
OPPOSING TRAFFIC LANES
(OMIT SIGN 43)

SHOULDER WORK WITH
MINOR ENCROACHMENT
ON DIVIDED AND
UNDIVIDED HIGHWAYS







NOTES:

SEE EPG 616.12 WORK ZONE SPEED LIMITS FOR SPEED LIMIT GUIDELINES.

SEE TRAFFIC CONTROL SHEET 1 FOR TRAFFIC CONTROL LEGEND AND GENERAL NOTES.

ROAD WORK AHEAD NOT REQUIRED IF SHOULDER WORK IS LOCATED WITHIN THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER ROAD WORK AHEAD IS ALREADY USED.

ROAD NARROWS SIGN SHOULD BE USED WHEN THE LANE WIDTH IS REDUCED.

SPEED	SIGN SPACING (FT)		TAPER LENGTH (FT)		OPTIONAL	CHANNELIZER SPACING (FT)	
PERMANENT POSTED (MPH)	UNDIVIDED (S)	DIVIDED (S)	SHOULDER (1) (T1)	LANE (2) (T2)	BUFFER LENGTH (FT) (B)	TAPERS	BUFFER/ WORK AREAS
0–35	200	–	70	245	280	35	40
40–45	350	–	150	540	400	40	80
50–55	500	–	185	660	560	50	80
60–70	1000	–	235	840	840	60	120

1 SHOULDER TAPER LENGTH BASED ON 10 FT (STANDARD SHOULDER WIDTH) OFFSET. 2. LANE TAPER LENGTH BASED ON 12 FT (STANDARD LANE WIDTH) OFFSET.

NOT TO SCALE

SHOULDER WORK
(MINOR LANE ENCROACHMENT)
TEMPORARY TRAFFIC CONTROL
SHEET 2 OF 9

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

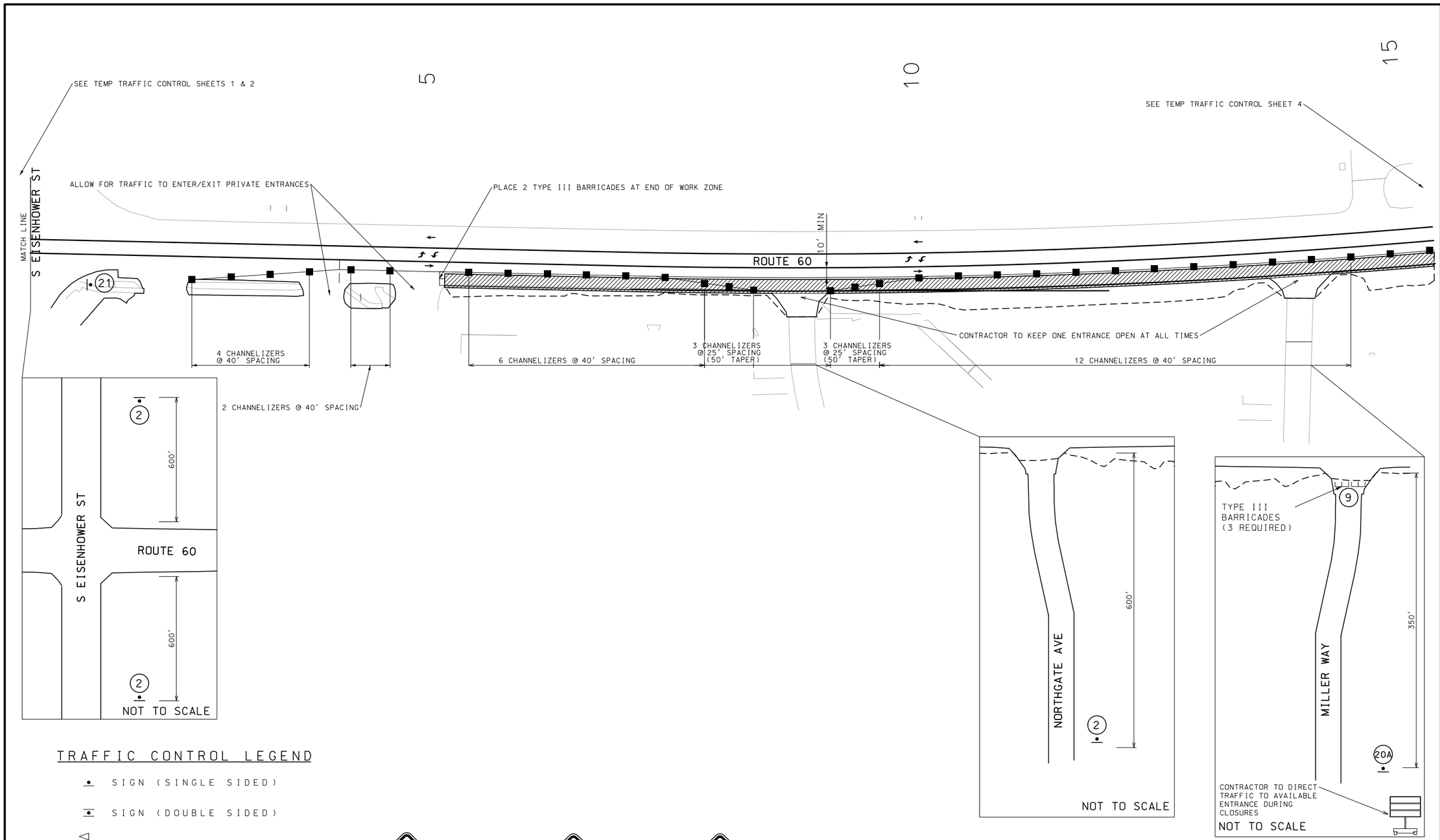
DATE PREPARED 11/30/2017
ROUTE 60/37 | STATE MO
DISTRICT SW | SHEET NO. 11
COUNTY BARRY
JOB NO. J7P0881
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

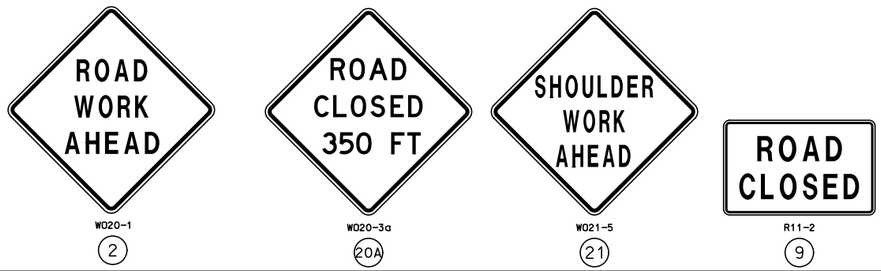
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett&West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD



TEMPORARY TRAFFIC CONTROL (DAY)
SHEET 3 OF 9

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 11/30/2017

ROUTE	STATE
60/37	MO
DISTRICT	SHEET NO.
SW	12

COUNTY: BARRY
JOB NO.: J7P0881
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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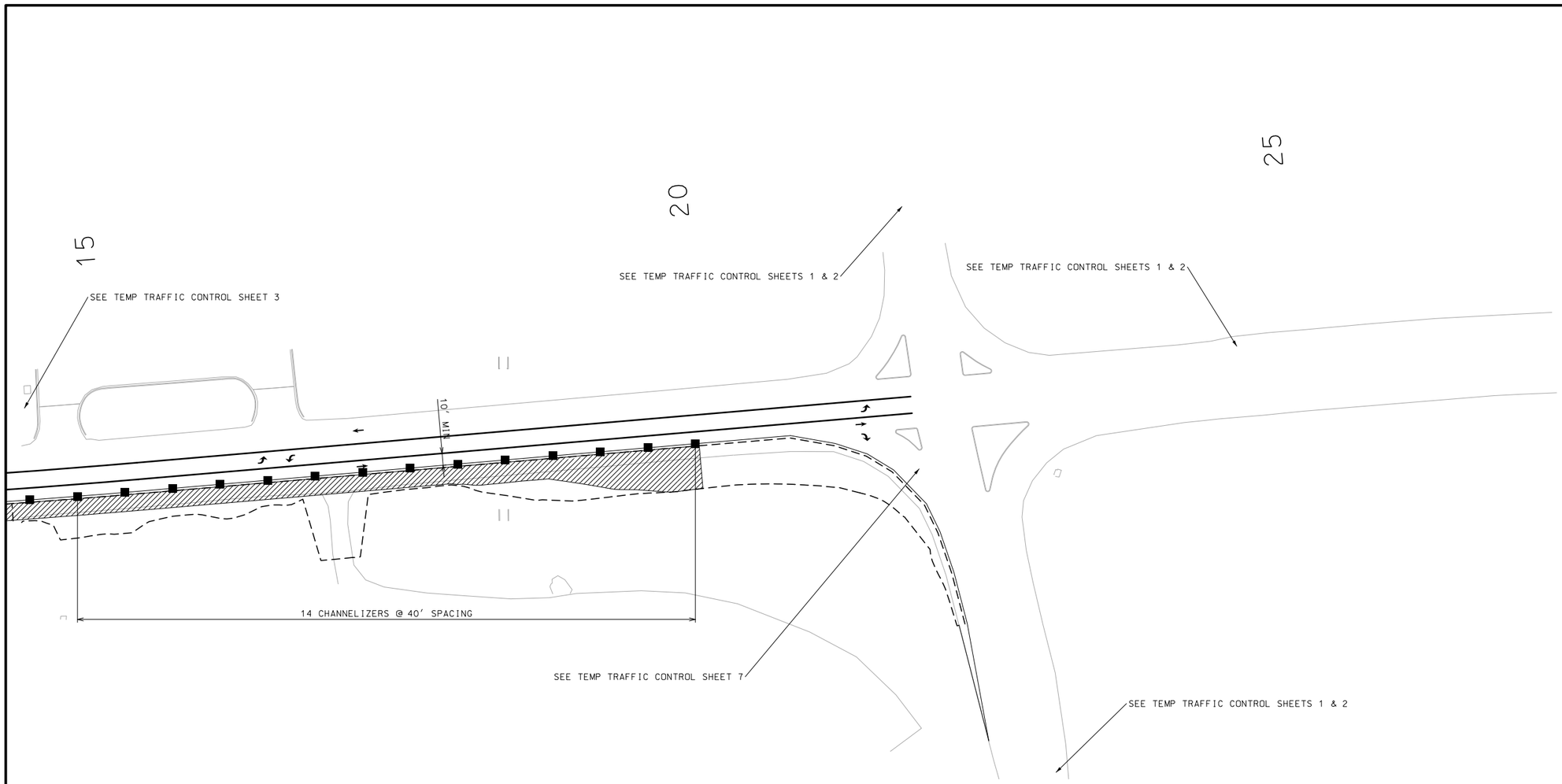

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD

TEMPORARY TRAFFIC
CONTROL (DAY)
SHEET 4 OF 9

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
11/30/2017

ROUTE	STATE
60/37	MO
DISTRICT	SHEET NO.
SW	13

COUNTY
BARRY

JOB NO.
J7P0881

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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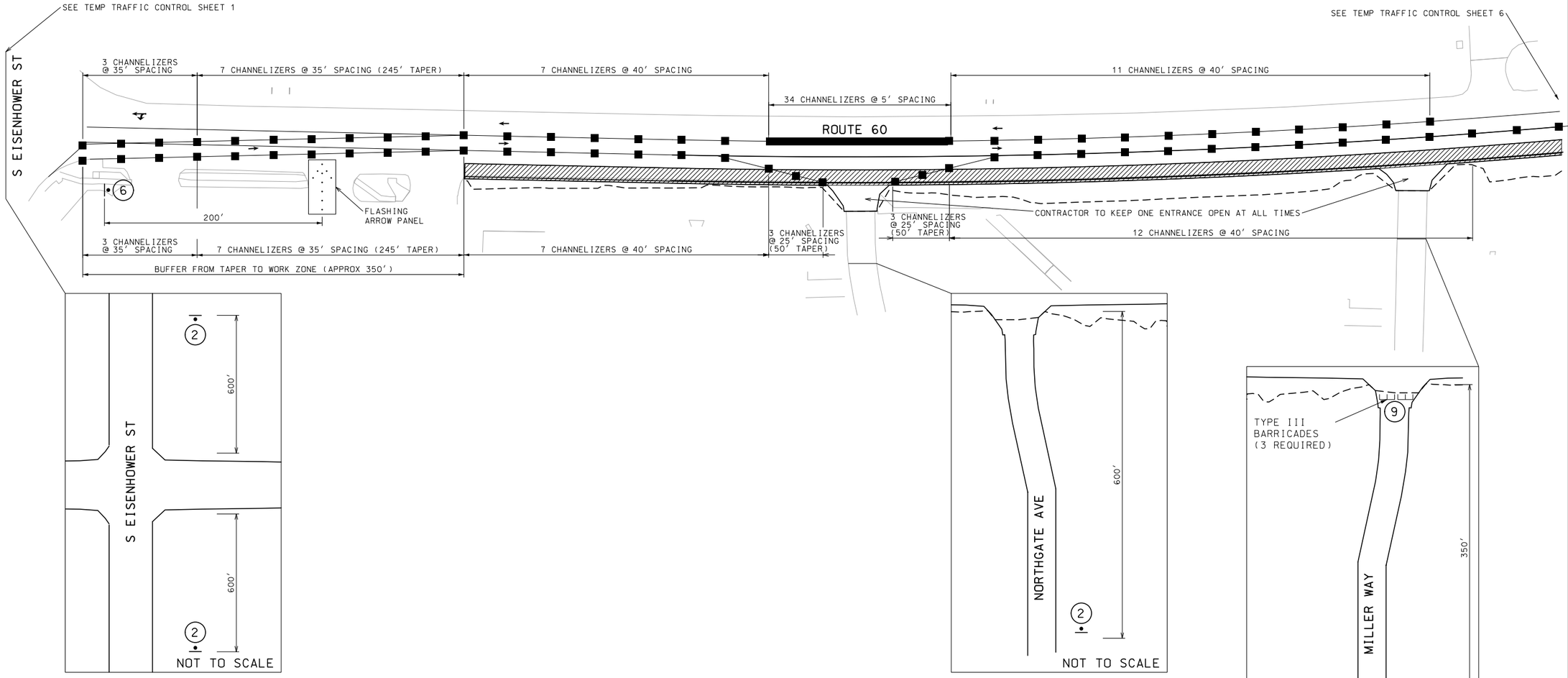

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD



W020-1
2



W020-6a
6



W020-3a
20A



R11-2
9

TEMPORARY TRAFFIC CONTROL (NIGHT)
SHEET 5 OF 9

5

15

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 11/30/2017
ROUTE 60/37 | STATE MO
DISTRICT SW | SHEET NO. 14
COUNTY BARRY
JOB NO. J7P0881
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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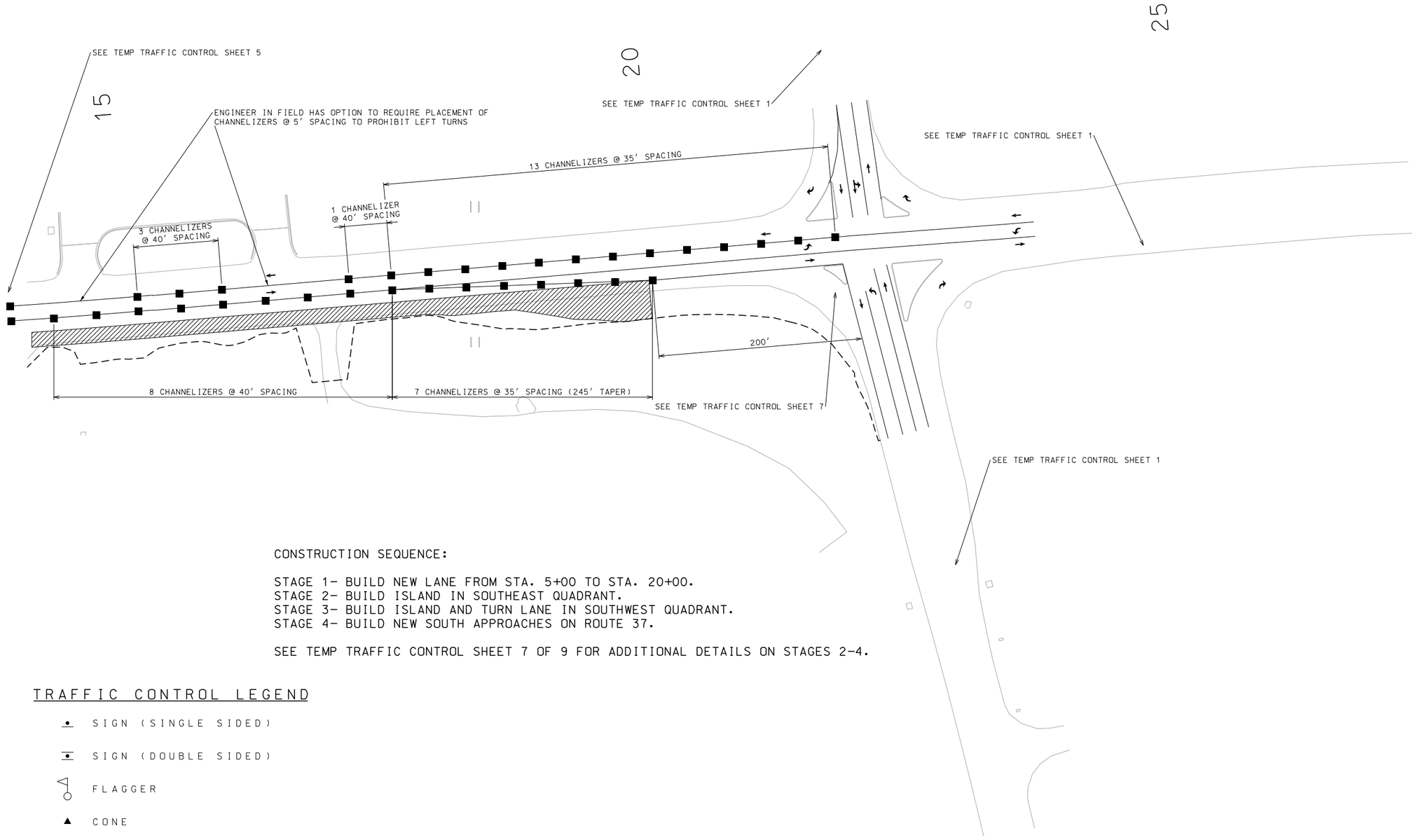

CONSTRUCTION SEQUENCE:

STAGE 1- BUILD NEW LANE FROM STA. 5+00 TO STA. 20+00.
STAGE 2- BUILD ISLAND IN SOUTHEAST QUADRANT.
STAGE 3- BUILD ISLAND AND TURN LANE IN SOUTHWEST QUADRANT.
STAGE 4- BUILD NEW SOUTH APPROACHES ON ROUTE 37.

SEE TEMP TRAFFIC CONTROL SHEET 7 OF 9 FOR ADDITIONAL DETAILS ON STAGES 2-4.

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD

TEMPORARY TRAFFIC CONTROL (NIGHT)
SHEET 6 OF 9

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 11/30/2017
ROUTE 60/37 | STATE MO
DISTRICT SW | SHEET NO. 15
COUNTY BARRY
JOB NO. J7P0881
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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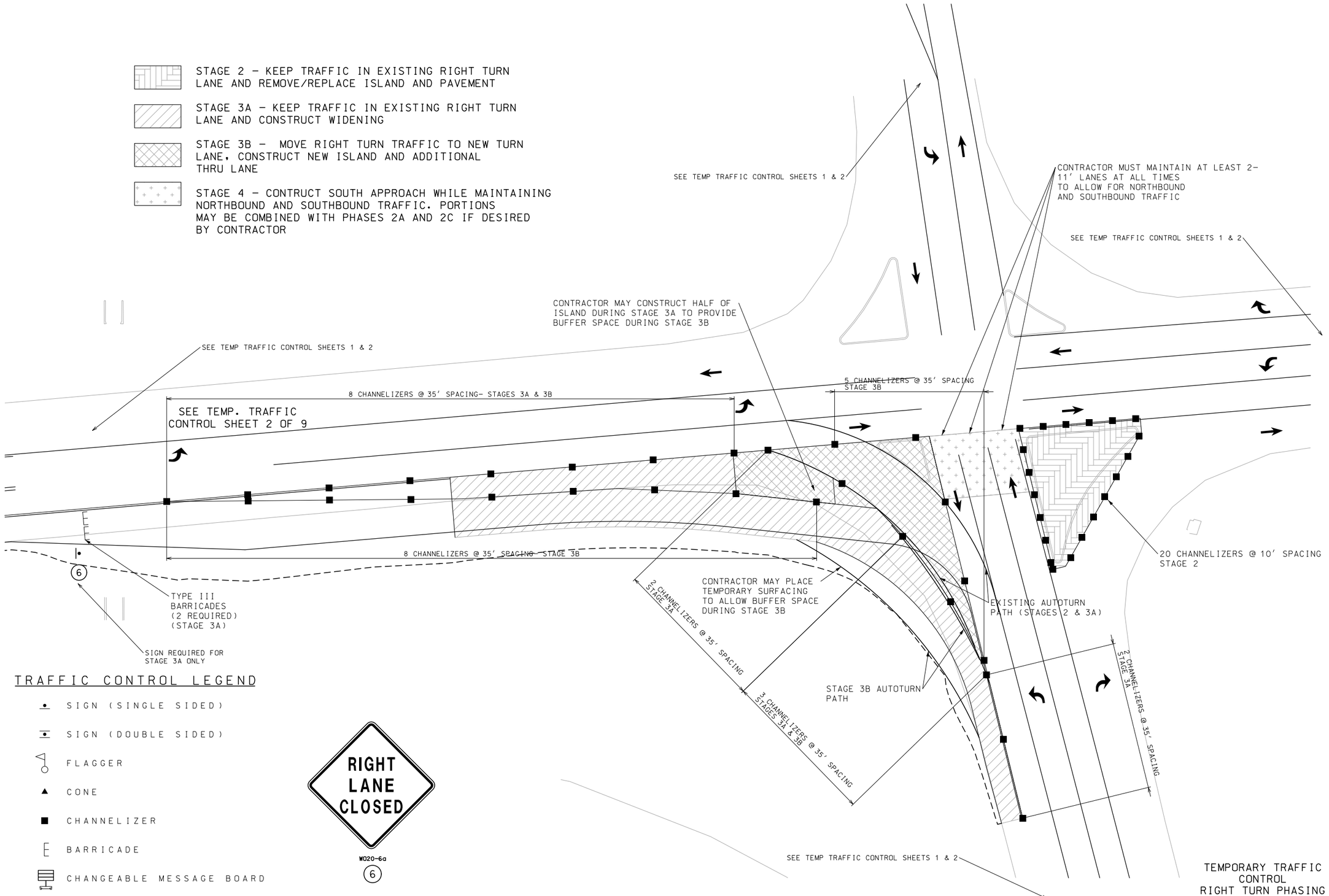
STAGE 2 – KEEP TRAFFIC IN EXISTING RIGHT TURN LANE AND REMOVE/REPLACE ISLAND AND PAVEMENT

STAGE 3A – KEEP TRAFFIC IN EXISTING RIGHT TURN LANE AND CONSTRUCT WIDENING

STAGE 3B – MOVE RIGHT TURN TRAFFIC TO NEW TURN LANE, CONSTRUCT NEW ISLAND AND ADDITIONAL THRU LANE

STAGE 4 – CONTRUCT SOUTH APPROACH WHILE MAINTAINING NORTHBOUND AND SOUTHBOUND TRAFFIC. PORTIONS MAY BE COMBINED WITH PHASES 2A AND 2C IF DESIRED BY CONTRACTOR



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD

TEMPORARY TRAFFIC CONTROL
RIGHT TURN PHASING
SHEET 7 OF 9

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 11/30/2017

ROUTE	STATE
60/37	MO
DISTRICT	SHEET NO.
SW	16

COUNTY: BARRY
JOB NO.: J7P0881
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett&West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
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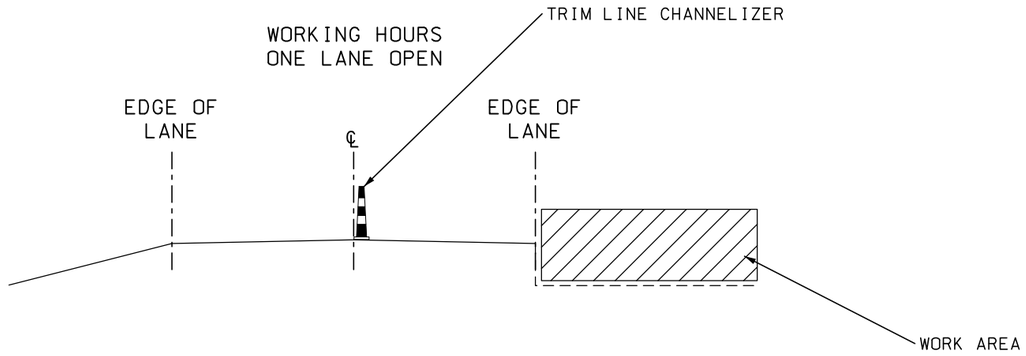

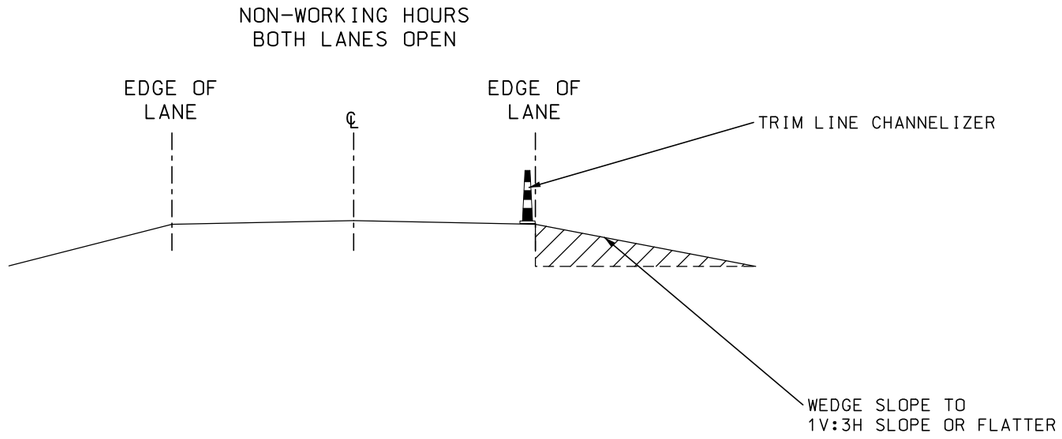

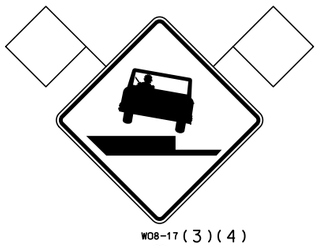

SEE STANDARD PLAN 619.10H FOR PAVEMENT EDGE TREATMENT.

(1) SIGNS SHALL BE PLACED AT APPROXIMATELY ONE MILE INTERVALS AND LOCATED WITHIN 150 FT. BEYOND ANY STATE ROADS. WHEN A SIGN PLACED AT THE ONE MILE INTERVAL FALLS WITHIN 1/2 MILEOF A SIGN PLACED AFTER AN INTERSECTION, THE SIGN PLACED AT THE 1/2 MILE INTERVAL MAY BE OMITTED. WHEN SHOULDER DROP-OFF SIGNS WITH UNEVEN LANES ARE BOTH SPECIFIED, ALTERNATING SIGN MESSAGES SHALL BE USED AT 1 MILE SPACING.

(2) ON SIDE ROADS WITH POSTED SPEED OF 45 MPH OR GREATER, SIGNS SHALL BE PLACED 150 FT. IN ADVANCE OF INTERSECTION WITH MAINLINE.

(3) SIGNS SHALL BE LOCATED AT THE SIDE OF THE ROADWAY WHERE THE PAVEMENT EDGE DIFFERENTIAL EXISTS, ON TWO-LANE UNDIVIDED HIGHWAYS, BACK-TO-BACK SIGNS SHALL BE PROVIDED ON THE SIDE OF THE ROADWAY, WHERE THE PAVEMENT EDGE DIFFERENTIAL EXISTS. 'BACK-TO-BACK' SIGNS SHALL BE SEPARATED BY 7-10 FEET.

(4) SIGNS TO REMAIN VISIBLE UNTIL SHOULDER SHAPING IS COMPLETE.

(5) SIGNS SHALL BE LOCATED ON RIGHT SIDE OF NON-DIVIDED HIGHWAYS AND ON BOTH SIDES OF DIVIDED HIGHWAYS WHERE A LANE LINE DIFFERNTIAL EXISTS.

(6) WHEN THE SHOULDER DROP-OFF SIGNS ARE IN PLACE FOR GREATER THAN THREE DAYS, THE SHOULDER DROP-OFF PLAQUE SHOULD BE USED IN ADDITION WITH THE SHOULDER DROP-OFF SIGN.

NON-WORKING HOURS
TEMPORARY
TRAFFIC CONTROL
SHEET 8 OF 9

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 11/30/2017
ROUTE 60/37 | STATE MO
DISTRICT SW | SHEET NO. 17
COUNTY BARRY
JOB NO. J7P0881
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett&West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
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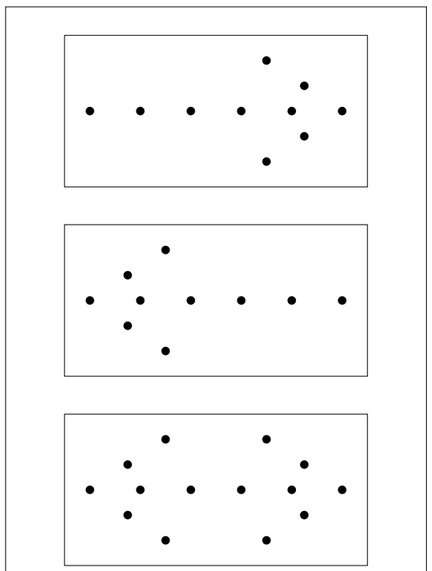
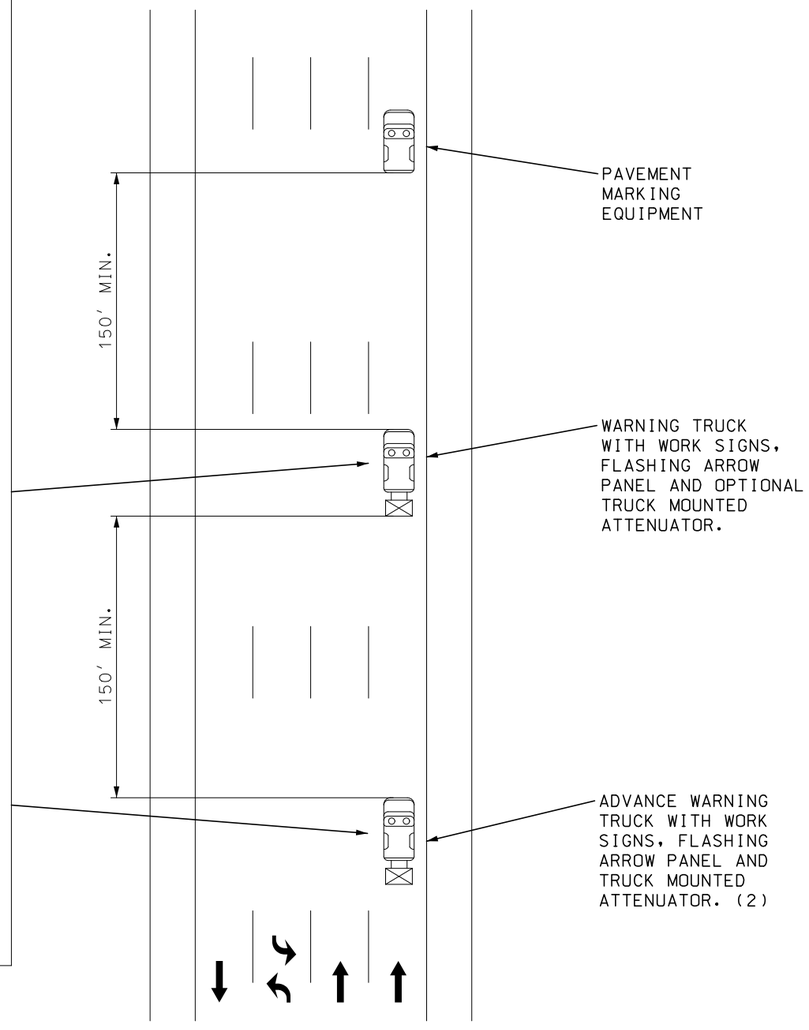
WWW.BARTWEST.COM

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.





TA-35A
CENTER LINE AND/OR LANE STRIPING
ON MULTI-LANE, UNDIVIDED HIGHWAY

NOTES:

ALL SIGNS HAVE TYPE 3 FLOURESCENT ORANGE RETROREFLECTIVE SHEETING.

(1) WET PAINT SIGNS ARE INSTALLED TO INDICATE THE SIDE IN WHICH THE PAVEMENT MARKING MATERIAL IS BEING APPLIED. AT THE CONTRACTOR'S OPTION, A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT MARKING EQUIPMENT.

(2) ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL OR SPACING SHOWN, WHICHEVER IS GREATER.

STRIPING
TEMPORARY
TRAFFIC CONTROL
SHEET 9 OF 9

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 11/30/2017
ROUTE 60/37 | STATE MO
DISTRICT SW | SHEET NO. 18
COUNTY BARRY
JOB NO. J7P0881
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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PHONE 573-634-3181 - FAX 573-634-7904
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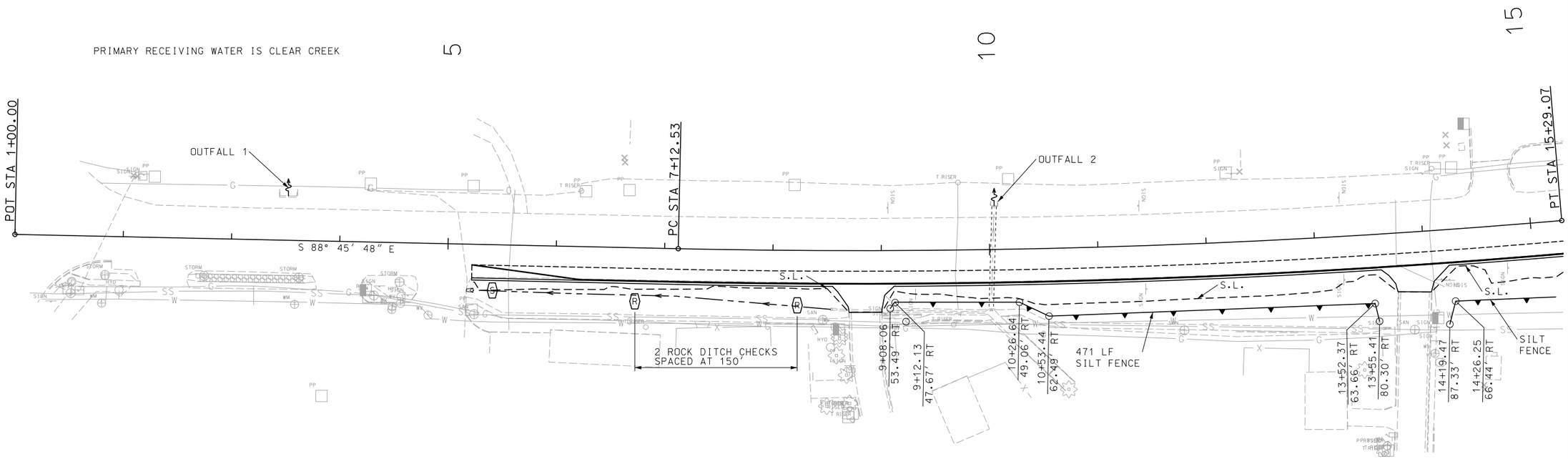
PRIMARY RECEIVING WATER IS CLEAR CREEK



TEMPORARY EROSION CONTROL LEGEND

- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
- SILT FENCE

SCALE

0 50 100 150

EROSION CONTROL PLAN
SHEET 1 OF 2

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 11/30/2017

ROUTE	STATE
60/37	MO
DISTRICT	SHEET NO.
SW	19

COUNTY BARRY

JOB NO. J7P0881

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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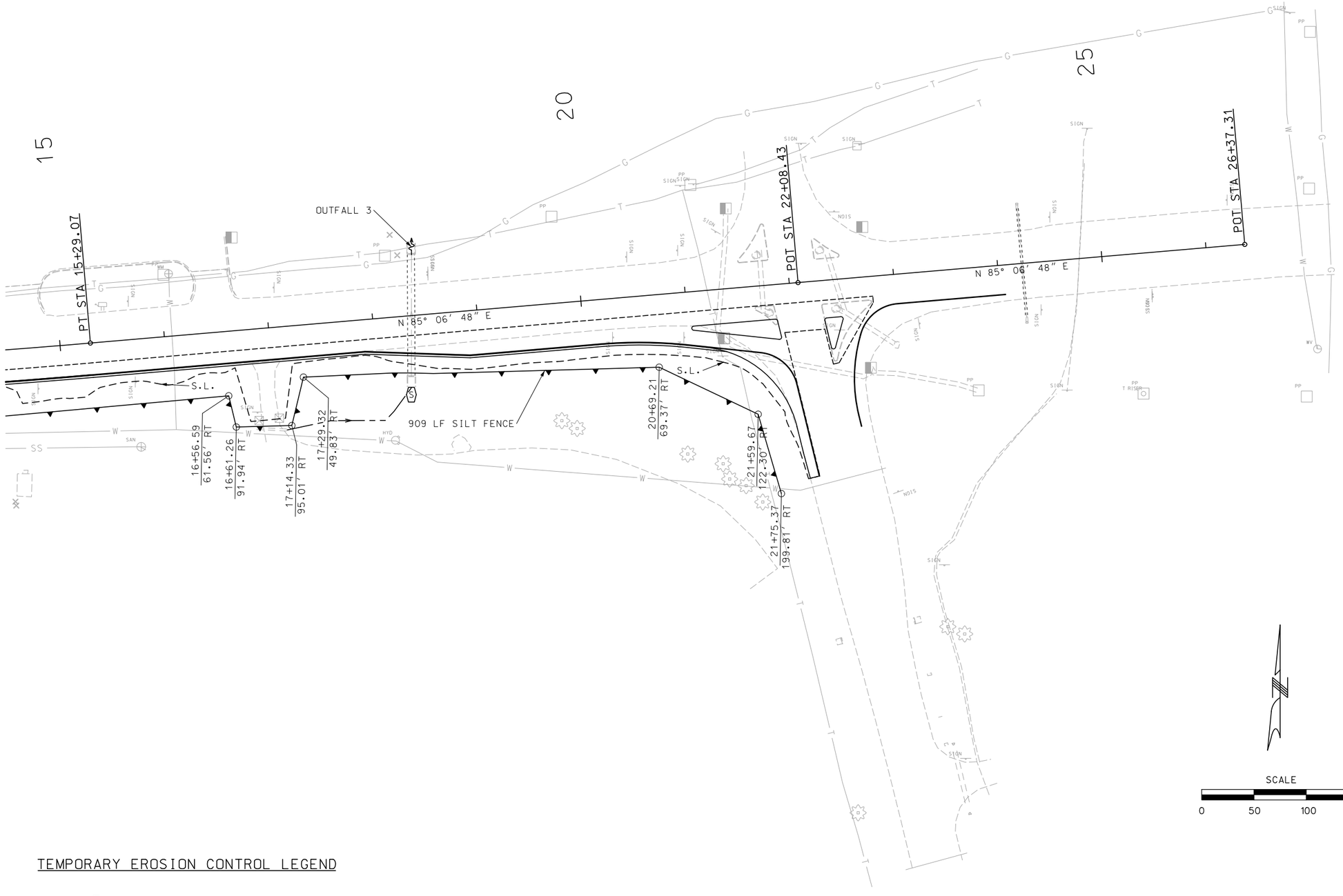
WWW.BARTWEST.COM



TEMPORARY EROSION CONTROL LEGEND

- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
- SILT FENCE

EROSION CONTROL PLAN
SHEET 2 OF 2

STATE OF MISSOURI
HERBERT R BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 11/30/2017

ROUTE	STATE
60/37	MO
DISTRICT	SHEET NO.
SW	20

COUNTY: BARRY
JOB NO.: J7P0881
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett&West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
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SIGNALS & LIGHTINIG LEGEND

- CABLE CONDUIT
- CABLE CONDUIT (EXISTING)
- PULL BOX (EXISTING)
- CONDUIT (EXISTING)
- CONDUIT (PUSHED)
- CONDUIT (TRENCHED)
- 30 X 6 LOOP DETECTOR
- 6 x 6 LOOP DETECTOR
- LOOP DETECTOR (EXISTING)
- LOOP DETECTOR (EXISTING)

U.I.P. (C)

CIRCUIT 3
1" CABLE CONDUIT
2c #8 AWG

DND UNDERGROUND TELEPHONE LINE

CIRCUIT 3
4" CONDUIT
1" CABLE CONDUIT
2c #8 AWG

NEXT SIGNAL 2,100'

-0.3% SPEED LIMIT 45 MPH

VACATE AND REMOVE EXISTING CONDUIT

VACATE EXISTING CONDUIT

-1.4% SPEED LIMIT 25 MPH

NEXT SIGNAL 5,760' (PEDESTRIAN CROSSWALK AT 1,980')

CONDUIT IDENTIFIED IN SURVEY. ASSUMED TO BE VACATED. NOT USED FOR PROPOSED WIRING.

EQUATION:
Sta 14+12.70 BK =
Sta 0+00.00 AH (ROUTE 37)

ROUTE 37

U.I.P. (D)

CIRCUIT 4
1" CABLE CONDUIT
2c #8AWG

SEE DETAIL 2 ABOVE

U.I.P. EXISTING CONDUIT

EXISTING CABLE CONDUIT NOT FOUND IN SURVEY DATA. IDENTIFIED FROM RECORD PLAN SHEETS. MAY BE VACATED IF FOUND

U.I.P. (S1)

EXISTING MAST ARM

RL YL L (51)

(S4) (R) RYG (21)

RYG (23)

VACATE EXISTING CONDUIT

-0.1% SPEED LIMIT 45 MPH

EXISTING MAST ARM RYG (43)

VACATE EXISTING CONDUIT RYG (41)

PT STA 22+08.26

U.I.P. (S1)

EXISTING MAST ARM (S4) (R)

CONST ℄ (US 60)

RL YL L (71)

Sta 22+08.75 (CONST ℄) =
Sta 00+2.12 (ROUTE 37)

RL YL L (31)

(S1)

45' MAST ARM

EXISTING CONDUIT NOT FOUND IN SURVEY DATA. IDENTIFIED FROM RECORD PLAN SHEETS. IF FOUND, MAY BE USED IN PLACE OF NEW PARALLEL PUSHED CONDUIT.

NEXT SIGNAL 4,420'

RYG (82)

RYG (63)

SAW CUT

INSTALL NEW MAST ARM BEHIND EXISTING MAST ARM

RYG (81) (R) (S3)

CIRCUIT 4
4" CONDUIT
1" CABLE CONDUIT
2c #8 AWG

VACATE AND REMOVE EXISTING CONDUIT

(R) (S2)

RYG (61)

RL YL L (11)

VACATE EXISTING CONDUIT

25' MAST ARM (S1)

VACATE EXISTING CONDUIT

DND UNDERGROUND TELEPHONE LINE

PAVEMENT MARKING

SAW CUT

SEE DETAIL 1 BELOW

CIRCUIT 2
1" CABLE CONDUIT
2c #8AWG

REMOVE AND RELOCATE TO POLE B

VACATE EXISTING CONDUIT

CIRCUIT 2, 3
4" CONDUIT
2 - 1" CABLE CONDUIT
2c #8 AWG

RELOCATE EXISTING RADIO COMMUNICAITON DEVICE FROM EXISTING SIGNAL POST TO POST 1. INSTALL TYPE CL POST WITHOUT A LUMINAIRE. POST TO BE USED FOR FUTURE ITS CAMERA.

U.I.P. EXISTING TRAFFIC SIGNAL CONTROLLER

INSTALL NEW UNINTERRUPTIBLE POWER SUPPLY

U.I.P. EXISTING CONDUIT

DETAIL 3

MATCH LINE

U.I.P. EXISTING CONDUIT

INSTALL NEW TYPE 2 POWER SUPPLY P.S.

VACATE AND REMOVE EXISTING CONDUIT

POWER HOOKUP

DETAIL 1

S.L.

DND UNDERGROUND TELEPHONE LINE

S.L.

VACATE AND REMOVE EXISTING CONDUIT

CONDUIT, PULL BOX, AND EXISTING ADVANCE DETECTOR NOT FOUND IN SURVEY DATA. IDENTIFIED FROM RECORD PLAN SHEETS.

EXISTING CABLE CONDUIT NOT FOUND IN SURVEY DATA. IDENTIFIED FROM RECORD PLAN SHEETS. MAY BE REMOVED IF FOUND.

SAW CUT

U.I.P. (A)

LIGHTING CONTROLLER 240V 4 CIRCUIT BASE MOUNTED CONTROL STATION

CIRCUIT 1, 2, 3
3-1" CABLE CONDUIT
2c #8AWG

CIRCUIT 1
1" CABLE CONDUIT
2c #8AWG

VACATE AND REMOVE EXISTING CONDUIT

SEE DETAIL 3 ABOVE

MATCH LINE

NO SIGNAL

+0.3% SPEED LIMIT 45 MPH

DETAIL 2

CONDUIT, PULL BOX, AND ADVANCE DETECTOR NOT FOUND IN SURVEY DATA. IDENTIFIED FROM RECORD PLAN SHEETS.

GENERAL NOTE (SIGNALS): EXISTING SIGNS S1, S2, S3 TO BE RELOCATED AS SHOWN, UNLESS OTHERWISE NOTED.
EXISTING SIGN S4 TO BE REMOVED.

SIGNALS & LIGHTINIG LEGEND

CONTROLLER	CONTROLLER (EXISTING)
POWER SOURCE	P.S. POWER SUPPLY
SIGNAL POLE	SIGNAL POLE (EXISTING)
SIGNAL HEAD (STANDARD)	SIGNAL HEAD (EXSITING)
PREFORMED PULL BOX TYPE 1	PREFORMED PULL BOX TYPE 2
MAST ARM TYPE A BASE	MAST ARM EXISTING
PULL BOX WITH NUMBER	PULL BOX WITH NUMBER (EXISTING)
POST WITH NUMBER	POST WITH NUMBER (EXISTING)
DETECTOR WITH NUMBER	DETECTOR WITH NUMBER (EXISTING)
SIGNAL HEAD WITH NUMBER	SIGNAL HEAD WITH NUMBER (EXISTING)
250 W LUMINAIRE	LUMINAIRE AND POLE (EXISTING)
PROPOSED PAVEMENT MARKING	TRAFFIC FLOW DIRECTION

SCALE
0 10 20 30

SIGNAL & LIGHTING PLAN
SHEET 1 OF 6

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER PE-2008002211
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
11/30/2017

ROUTE	STATE
60/37	MO
DISTRICT	SHEET NO.
SW	21

COUNTY
BARRY

JOB NO.
J7P0881

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett&West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
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WWW.BARTWEST.COM

c:\pwdata\topeka01\jms01433\dms28073\021_SG_01_J7P0881_I10_US60atMO37.dgn 10:03:58 AM 11/30/2017

EFFECTIVE: 10/01/2016

| POST NUMBER | PULL BOX NUMBER | LOCATION APPROACH | LOCATION STATION | LOCATION OFFSET | BASE A 9 | BASE A 9.5 | BASE A 10 | BASE A 10.5 | BASE A 11 | BASE A 12 | BASE F 9 | BASE F 9.5 | BASE F 10 | BASE F 10.5 | BASE F 11 | BASE F 12 | BASE C | BASE CONCRETE** (CU. YDS.) | PULL BOX PREFORMED CLASS 1 | PULL BOX PREFORMED CLASS 2 | PULL BOX PREFORMED CLASS 3 | PULL BOX PREFORMED CLASS 5 | PULL BOX CONCRETE STANDARD | PULL BOX CONCRETE DOUBLE. TYPE A | PULL BOX CONCRETE DOUBLE. TYPE B | DRAIN TYPE* I | DRAIN TYPE* II A | DRAIN TYPE* II B | DRAIN TYPE* II C | TOP MOUNT POST 8 FT. | TOP MOUNT POST 15 FT. | TYPE C & CL ARM LENGTH 25 A | TYPE C & CL ARM LENGTH 45 A | TYPE C & CL ARM LENGTH A | TYPE C & CL ARM LENGTH A | TYPE C & CL SIGNAL SPACING B | TYPE C & CL SIGNAL SPACING C | TYPE C & CL SIGNAL SPACING D | TYPE C & CL SIGNAL SPACING D′ | TYPE C & CL SIGN SPACING B | TYPE C & CL SIGN SPACING C | TYPE C & CL SIGN SPACING D | TYPE C & CL SIGN SPACING D′ | TYPE B & BL ARM LENGTH E | TYPE B & BL ARM LENGTH K | TYPE B & BL LEFT ARM E SIGNAL SPACING F | TYPE B & BL LEFT ARM E SIGNAL SPACING G | TYPE B & BL LEFT ARM E SIGNAL SPACING H | TYPE B & BL LEFT ARM E SIGNAL SPACING H′ | TYPE B & BL LEFT ARM E SIGN SPACING F | TYPE B & BL LEFT ARM E SIGN SPACING G | TYPE B & BL LEFT ARM E SIGN SPACING H | TYPE B & BL LEFT ARM E SIGN SPACING H′ | TYPE B & BL RIGHT ARM K SIGNAL SPACING L | TYPE B & BL RIGHT ARM K SIGNAL SPACING M | TYPE B & BL RIGHT ARM K SIGNAL SPACING N | TYPE B & BL RIGHT ARM K SIGNAL SPACING N′ | TYPE B & BL RIGHT ARM K SIGN SPACING L | TYPE B & BL RIGHT ARM K SIGN SPACING M | TYPE B & BL RIGHT ARM K SIGN SPACING N | TYPE B & BL RIGHT ARM K SIGN SPACING N′ | INCLUDED ANGLE | LUMINAIRE BRACKET ARM* 4 FT. | LUMINAIRE BRACKET ARM* 6 FT. | LUMINAIRE BRACKET ARM* 8 FT. | LUMINAIRE BRACKET ARM* 10 FT. | LUMINAIRE BRACKET ARM* 12 FT. | LUMINAIRE BRACKET ARM* 15 FT. | ELEVATION |
|---|---|---

EFFECTIVE: 10-01-2015

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH			PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1″	2″	3″	4″	2″	3″	4″	2″	3″	4″	2″	3″		
ø	[M]	86′											SIGNAL CONTROLLER (EXISTING)			
[M]	1	8′			22′											2 RUNS OF 11′
2	(1)	15′			16′											
2	(21)	13′	4′													
2	(51)	43′	4′													
3	(2)	22′			23′											
3	(81)	15′	6′													
3	(82)	29′	7′													
3	(31)	69′	8′													
4	(3)	6′														
4	(61)	23′	8′													
4	(11)	56′	7′													
5	(4)	7′														
5	(41)	23′														
5	(71)	65′														
1	2	65′			31′			32′								
2	3	79′			30′			47′								
3	4	75′			15′			58′								
2	5	82′			35′			45′								
3	6	171′			169′											
5	7	175′														

EFFECTIVE 04-01-2002

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
APPROACH	STATION	OFFSET	DRAWING 902.15	DRAWING	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
							SIGNALS	LIGHTING				
SE CORNER	23+68.20	+114.70	Type 2		15 Amps	15 Amps	40 Amps	100 Amps		Amps	Ci. Ft.	
			Type		Amps	Amps	Amps	Amps		Amps	Ci. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT ***

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
							TYPE		12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
SE CORNER	22+97.20	+67.43																				

***CONTROLLER ASSEMBLY IS EXISTING

UNINTERRUPTED POWER SUPPLY

1 EACH

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		PUSH BUTTON	INDUCTION LOOP (2)			VIDEO
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
11	SOUTHBOUND		EXISTING			
21	NORTHBOUND		1 (30'x6')			
31	EASTBOUND		1 (30'x6')			
41	WESTBOUND		EXISTING			
43	WESTBOUND		EXISTING			
51	NORTHBOUND		1 (30'x6')			
61	SOUTHBOUND		EXISTING			
71	WESTBOUND		EXISTING			
81	EASTBOUND		1 (30'x6')			
82	EASTBOUND		1 (30'x6')			
83	EASTBOUND		1 (6'x6')			
84	EASTBOUND		1 (6'x6')			
TOTAL			7 (2)			

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART. FOR TOTAL NUMBER OF DETECTOR LOOPS REQUIRED, SEE D37B FOR CABLE QUANTITIES.

RELOCATE RADIO COMMUNICATION DEVICE

1 EACH

NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1	****	****	****	****	****	82	84	
	2	****	****	****	****	****			

**** VEHICLE CARDS ARE EXISTING

TOTAL NUMBER OF NEW DETECTOR CARDS(2-CHANNEL) = 2 (2)

NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
#	#	#	#	#	#	#	#				

VEHICLE LOAD SWITCHES ARE EXISTING

SIGNAL PLAN
SHEET 4 OF 6

US 60 AT MO 37
INTERSECTION

D-37C

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER PE-2008002211
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 1/9/2018
ROUTE 60/37 | STATE MO
DISTRICT SW | SHEET NO. 24
COUNTY BARRY
JOB NO. J7P0881
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

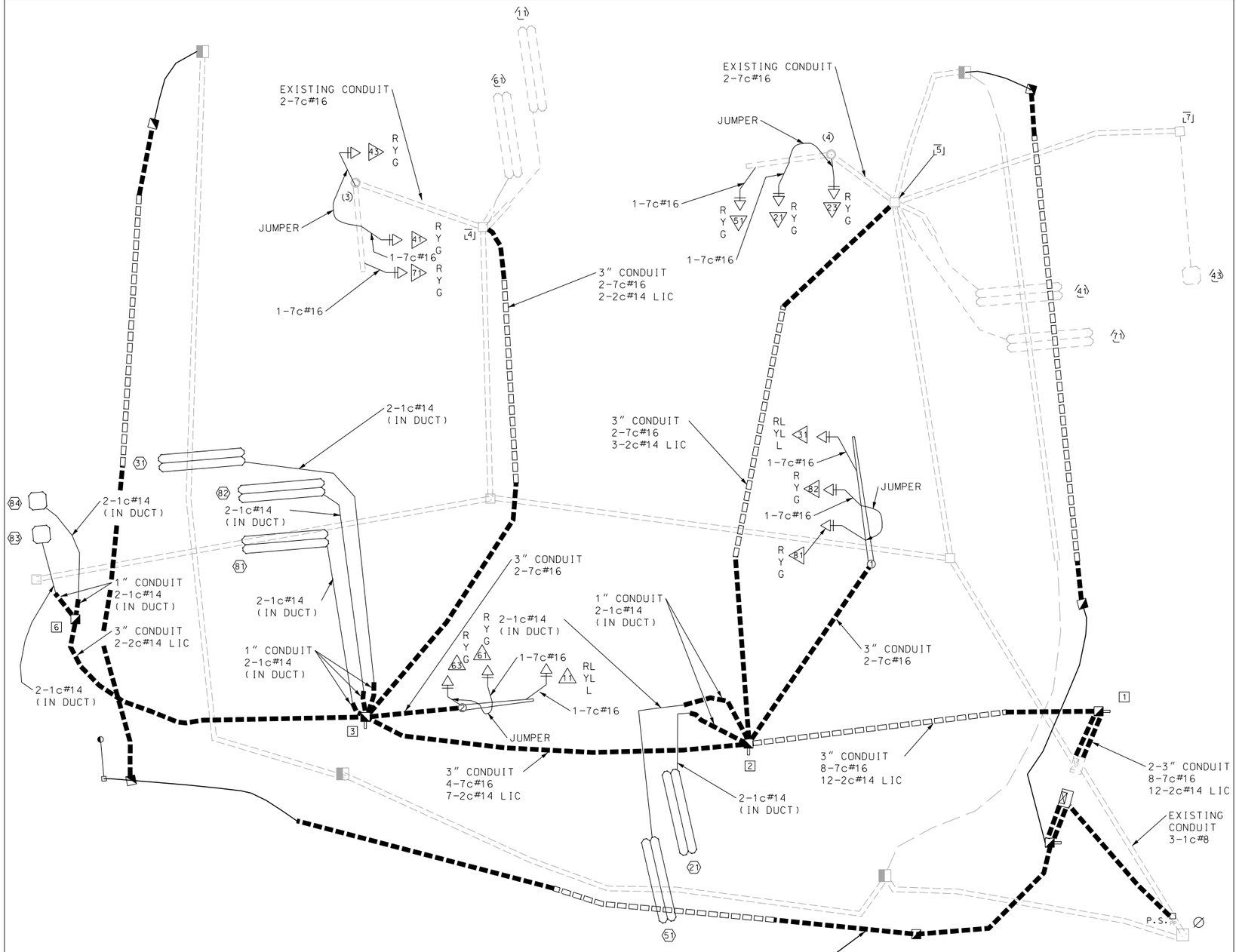
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett&West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

WIRING DIAGRAM



LIGHTING INFORMATION SHOWN FOR INFORMATIONAL PURPOSES ONLY

✳ CABLES LISTED ARE EXISTING
EXISTING CONDUIT CONTAINS ADDITIONAL EXISTING CABLES

LEGEND

- —3"— CONDUIT CONTAINING CABLE WITH SIZE
- —— CABLE
- X-Xc MULTI-CONDUCTOR CABLE #12 AWG (UNLESS OTHERWISE INDICATED)
- LIC #14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
- [X] PULL BOX WITH NUMBER
- (X) POST WITH NUMBER
- ⟨X⟩ DETECTOR WITH NUMBER
- X SIGNAL HEAD WITH NUMBER
- POST WITH NUMBER AND MAST ARM
- ∅ POWER SOURCE
- SIGNAL CONTROLLER
- (X) POST WITH NUMBER (EXISTING)
- DETECTOR WITH NUMBER (EXISTING)
- X SIGNAL HEAD WITH NUMBER (EXISTING)
- POST WITH NUMBER AND MAST ARM (EXISTING)

US 60 & MO 37
INTERSECTION

SIGNAL PLAN
SHEET 5 OF 6

D-37D

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER PE-2008002211
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 11/30/2017
ROUTE 60/37 | STATE MO
DISTRICT SW | SHEET NO. 25
COUNTY BARRY
JOB NO. J7P0881
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

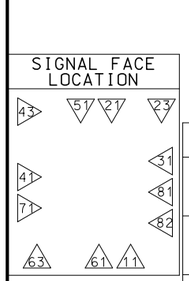
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett&West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

EFFECTIVE 09/08/2009

SIGNAL FACE LOCATION

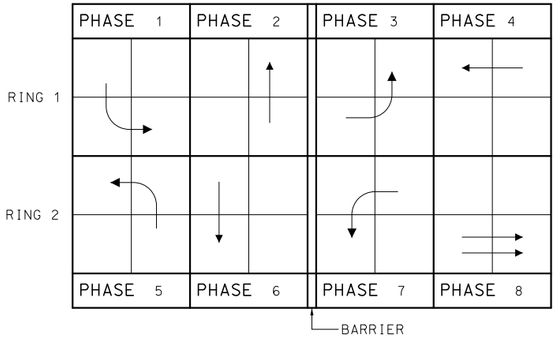


TRAFFIC PHASING AND COLOR SEQUENCE – ACTUATED CONTROLLERS

		PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED OVERLAP	PED OVERLAP	PED OVERLAP	PED OVERLAP
FACE NUMBERS		11	21 23	31	41 43	51	61 63	71	81 82				
SIGNAL INDICATIONS	R	RL	R R	RL	R R	RL	R R	RL	R R				
	Y	YL	Y Y	YL	Y Y	YL	Y Y	YL	Y Y				
	FYA												
	G	L	G G	L	G G	L	G G	L	G G				
DETECTOR ASSIGNMENTS		11	21 21	31	41 41 43 43	51	61 61	71	81 82 83 84				
DETECTOR ASSIGNMENTS (PEDS. ONLY)													
OVERLAP PARENT PHASES													

FACE NUMBERS	
SIGNAL INDICATIONS	R
	Y
	FYA
	G
DETECTOR ASSIGNMENTS	

(XX) DETECTOR WITH NUMBER (EXISTING)



RING STRUCTURE ✳

✳ VEHICLE PHASES ARE EXISTING

IF CALLED. ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED
- FDW — FLASHING DON'T WALK
- R/W — RIGHT OF WAY INTERVAL
- DW — DON'T WALK
- YR† — YELLOW RIGHT ARROW
- RT. — GREEN RIGHT ARROW
- W — WALK
- LY –YL — YELLOW LEFT ARROW
- L — GREEN LEFT ARROW
- S — GREEN STRAIGHT AHEAD ARROW
- G — CIRCULAR GREEN
- Y — CIRCULAR YELLOW
- R — CIRCULAR RED
- Ø — TRAFFIC PHASE
- AO — ALL OTHERS
- FR — FLASHING RED
- FY — FLASHING CIRCULARE YELLOW
- FYA — FLASHING YELLOW ARROW
- FYL — FLASHING YELLOW LEFT ARROW
- FYR — FLASHING YELLOW RIGHT ARROW

FLASHING OPERATION	
ALL APPROACHES	FR
	FY

CONTROLLER TYPE	NEMA 8Ø

TRAFFIC SIGNAL CONTROL OPERATION	
INTERSECTION OF	
US 60	
WITH	MO 37

SIGNAL PLAN
SHEET 6 OF 6

D-38A

STATE OF MISSOURI
JASON MICHAEL SOMMERER
NUMBER PE-2008002211
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 11/30/2017

ROUTE	STATE
60/37	MO
DISTRICT	SHEET NO.
SW	26

COUNTY: BARRY
JOB NO.: J7P0881
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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CURVE RTE60CON_3
PI 11+21.19
PC 7+12.53
PT 15+29.07
Δ 6° 07′ 23.6″ (LT)
D 0° 44′ 59.6″
L 816.54′
T 408.66′
R 7,640.47′

10

PC STA 7+12.53

ROUTE 60 (RTE60CON)

CONSTRUCTION ℄

SAWCUT (R)

EDGE OF SHOULDER

EDGE OF PAVEMENT

NORTHGATE AVE

DND

DND

DND

NO PARKING ANY TIME
R7-1 REMOVE

NO PARKING ANY TIME
R7-1 REMOVE

SCALE
0 20 40 60

SIGNING SHEET
SHEET 1 OF 4

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
11/30/2017

ROUTE	STATE
60/37	MO
DISTRICT	SHEET NO.
SW	27

COUNTY
BARRY

JOB NO.
J7P0881

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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EXISTING SIGN
RELOCATE

W03-3

NO PARKING ANY TIME

R7-1D

EXISTING SIGN
REMOVE

CURVE RTE60CON_3
PI 11+21.19
PC 7+12.53
PT 15+29.07
Δ 6° 07′ 23.6″ (LT)
D 0° 44′ 59.6″
L 816.54′
T 408.66′
R 7,640.47′

(1) REMOVE AND RELOCATE STA 13+25.00 42.50′ RT

UIP

PT STA 15+29.07

CONSTRUCTION ℄

ROUTE 60 (RTE60CON)
N 85° 06′ 48″ E

PROPOSED EDGE OF PAVEMENT

PROPOSED EDGE OF SHOULDER

SAWCUT (R)

(R)

UIP

STOP

R1-1

UIP

S.L.

(R)

REMOVE AND RELOCATE STA 15+70.00 42.50′ RT

REMOVE AND RELOCATE STA 17+90.00 45.50′ RT

MILLER WAY

DO NOT DRIVE ON SHOULDER

EXISTING SIGN
REMOVE

NO PARKING ANY TIME

R7-1

EXISTING SIGN
REMOVE

JCT

M2-1

EXISTING SIGN
RELOCATE

37

M1-5

EXISTING SIGN
RELOCATE

NO PARKING ANY TIME

R7-1D

EXISTING SIGN
REMOVE

EXISTING SIGN
ASSEMBLY
REMOVE & RELOCATE
(2)

AURORA 12
MONETT
PURDY 7

EXISTING SIGN
RELOCATE

NO PARKING ANY TIME

R7-1D

EXISTING SIGN
REMOVE

(3)

SCALE
0 20 40 60

SIGNING SHEET
SHEET 2 OF 4

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
11/30/2017

ROUTE	STATE
60/37	MO
DISTRICT	SHEET NO.
SW	28

COUNTY
BARRY

JOB NO.
J7P0881

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett&West

1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

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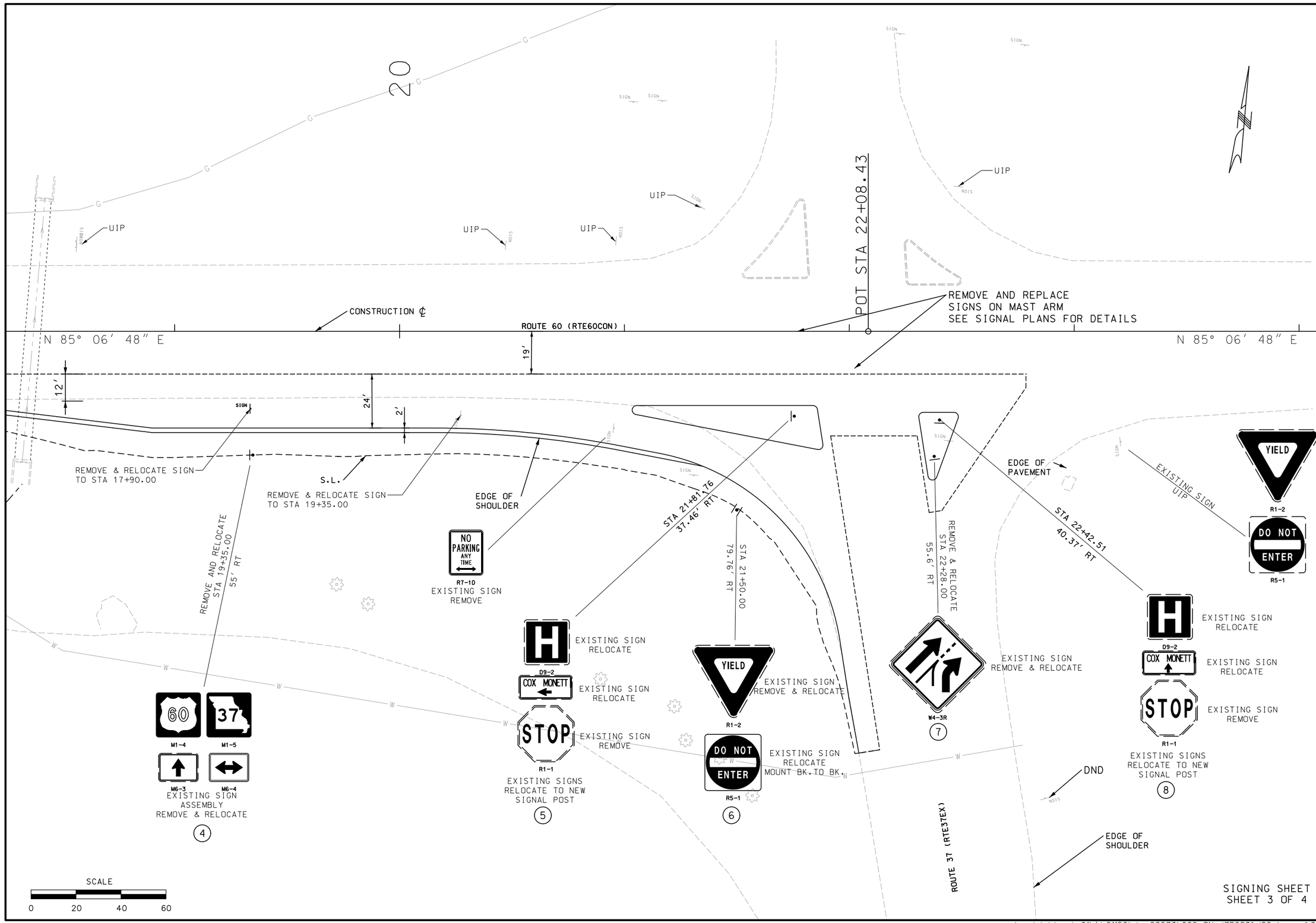

SIGNING SHEET
SHEET 3 OF 4

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	11/30/2017
ROUTE 60/37	STATE MO
DISTRICT SW	SHEET NO. 29
COUNTY	BARRY
JOB NO.	J7P0881
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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WWW.BARTWEST.COM

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EFFECTIVE 10-01-2016

SIGNS						PIPE POST ✳					STRUCTURAL STEEL										U CHANNEL POST	PERFORATED SQUARE STEEL TUBE POST																FOOTINGS		REMARKS AND OTHER REQUIRED ITEMS.
											POSTS ✳						BACKING BARS 2" X 3/8" BARS @ 2.55 LBS PER LIN FT				TOTAL		2 IN							2.5 IN						BREAK-AWAY ASSEMBLY	EMBD	BOLT DOWN	
SIGN NO.	SIGN SIZE	STATION	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	PIPE SIZE	POST NO.1	POST NO.2	LBS PER FT	TOTAL ITEM NO. 9031220	POST DES NO.	POST NO.1	POST NO.2	POST NO.3	LBS PER FT	TOTAL	NO. EACH	LGTH	TOTAL	TOTAL	ITEM NO. 9031210	ITEM NO. 9031250	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031270A	ANCHOR 7 GA. ITEM NO. 9031273	OMNI 7 GA. ITEM NO. 9031279	ANCHOR 12 GA. ITEM NO. 9031271	OMNI 12 GA. ITEM NO. 9031278	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031280	2.25" INSERT ITEM NO. 9031272	ANCHOR 7 GA. ITEM NO. 9031281	OMNI 7 GA. ITEM NO. 9031282	ITEM NO. 9031241	ITEM NO. 9031010	ITEM NO. 9031020	
						IN.	LF	LF		LBS		LF	LF	LF		LBS		IN.	LF	LBS	LBS	LF	LF	LF													EACH	CU YDS	CU YDS	
1	36 X 36	13+25.00		RIGHT																									16		16	16		3		0.13		
2	24 X 40	15+70.00		RIGHT																									16		16		3			0.13		
3	60 X 30	17+90.00		RIGHT																									16	16	32		6			0.26		
4	ASSEMBLY	19+35.00		RIGHT							USE EXISTING BACKING BARS																		16		16	16		3		0.13		
5		21+81.79	37.46′	RIGHT																																		MOUNT ON NEW SIGNAL POST
6	36" TRI.	21+50.00		RIGHT																									16		16		3			0.13		
7	36 x 36	22+28.00		RIGHT																									16		16		3			0.13		
8		22+42.51	40.37′	RIGHT																																		MOUNT ON NEW SIGNAL POST
SUBTOTAL																0													112	32	15	6			0.91		
TOTAL																													112	32	15	6			0.9		

✳ BREAKAWAY ASSEMBLY IS INCIDENTAL FOR PIPE AND STRUCTURAL STEEL POSTS

ROUND PIPE POST AND FOOTING DATA TABLE

NOM. SIZE (IN.)	WEIGHT LBS/FT	WEIGHT LBS/IN	STUB LENGTH	FOOTING DIA.	FOOTING DEPTH	CONCRETE C.Y.
2½	5.79	0.48	4′ - 3½"	12"	4′-6"	0.13
3	7.58	0.63	4′ - 3½"	12"	4′-6"	0.13
4	10.79	0.90	5′ - 3½"	18"	5′-6"	0.36

POST AND FOOTING DATA TABLE

POST DES. NO.	POST NOM. SIZE	POST WEIGHT LBS/FT	POST WEIGHT LBS/IN	POST STUB LENGTH	FOOTING DIA.	FOOTING LEVEL GROUND DEPTH	FOOTING LEVEL GROUND C.Y.	FOOTING 6:1 GRADE DEPTH	FOOTING 6:1 GRADE C.Y.	FOOTING 4:1 GRADE DEPTH	FOOTING 4:1 GRADE C.Y.	FOOTING 3:1 OR 2:1 GRADE DEPTH	FOOTING 3:1 OR 2:1 GRADE C.Y.
1	W6	9.0	0.75	3′-0"	15"	3′-0"	0.14	3′-2"	0.15	3′-3"	0.16	3′-6"	0.17
2	W6	15.0	1.25	4′-0"	24"	4′-0"	0.47	4′-2"	0.50	4′-3"	0.51	4′-6"	0.54
3	W8	18.0	1.50	4′-6"	28"	4′-6"	0.71	4′-8"	0.73	4′-9"	0.74	5′-0"	0.78
4	W10	22.0	1.83	5′-0"	36"	5′-0"	1.31	5′-2"	1.36	5′-3"	1.39	5′-6"	1.45
5	W10	26.0	2.17	5′-0"	36"	5′-0"	1.31	5′-3"	1.37	5′-5"	1.43	5′-9"	1.52
6	W12	35.0	2.92	5′-6"	36"	5′-6"	1.44	5′-9"	1.52	5′-11"	1.56	6′-3"	1.65

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 11/30/2017
ROUTE 60/37
STATE MO
DISTRICT SW
SHEET NO. 30
COUNTY BARRY
JOB NO. J7P0881
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION
DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett&West
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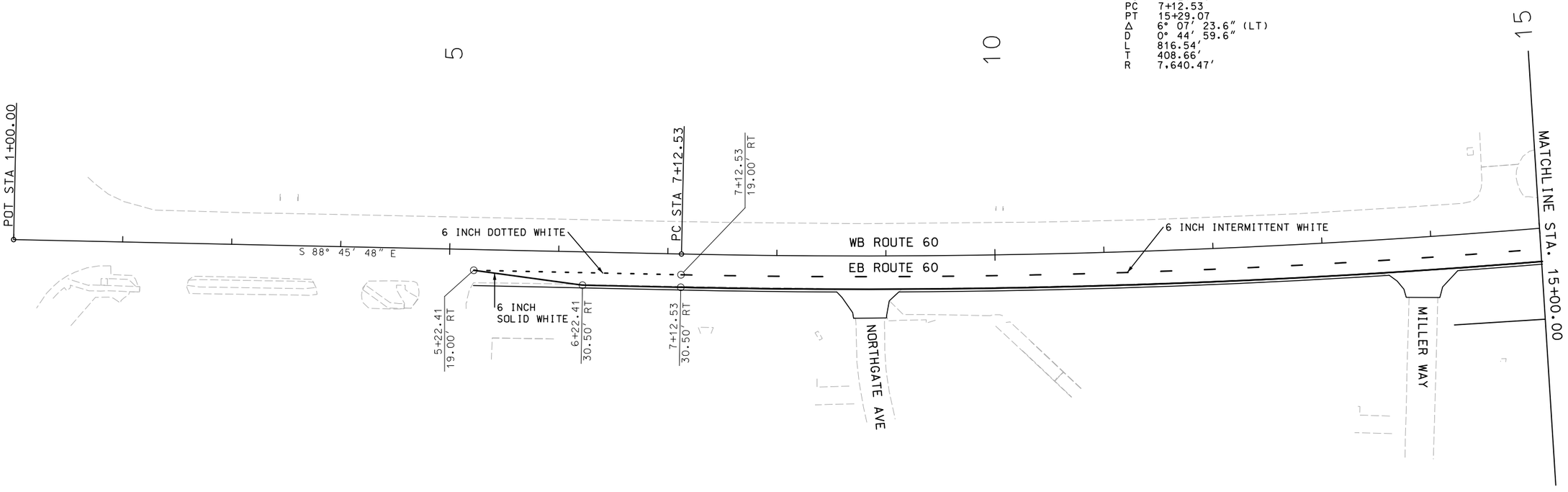
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

CURVE RTE60CON_3
PI 11+21.19
PC 7+12.53
PT 15+29.07
Δ 6° 07′ 23.6″ (LT)
D 0° 44′ 59.6″
L 816.54′
T 408.66′
R 7,640.47′



SCALE
0 50 100 150

PAVEMENT MARKING PLAN
SHEET 1 OF 2

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 11/30/2017
ROUTE 60/37 | STATE MO
DISTRICT SW | SHEET NO. 31
COUNTY BARRY
JOB NO. J7P0881
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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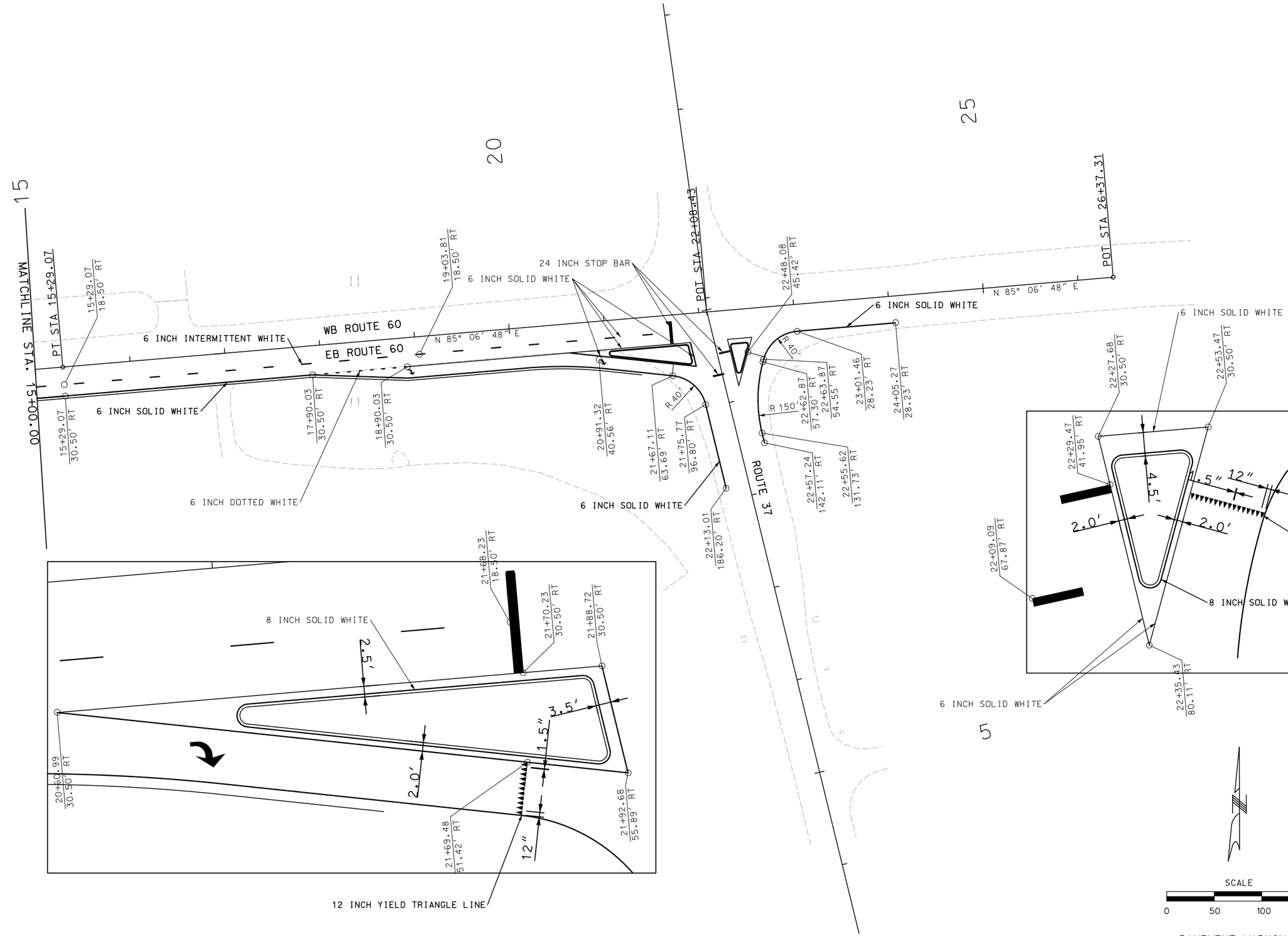

PAVEMENT MARKING PLAN
SHEET 2 OF 2

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 11/30/2017

ROUTE	STATE
60/37	MO
DISTRICT	SHEET NO.
SW	32

COUNTY: BARRY
JOB NO.: J7P0881
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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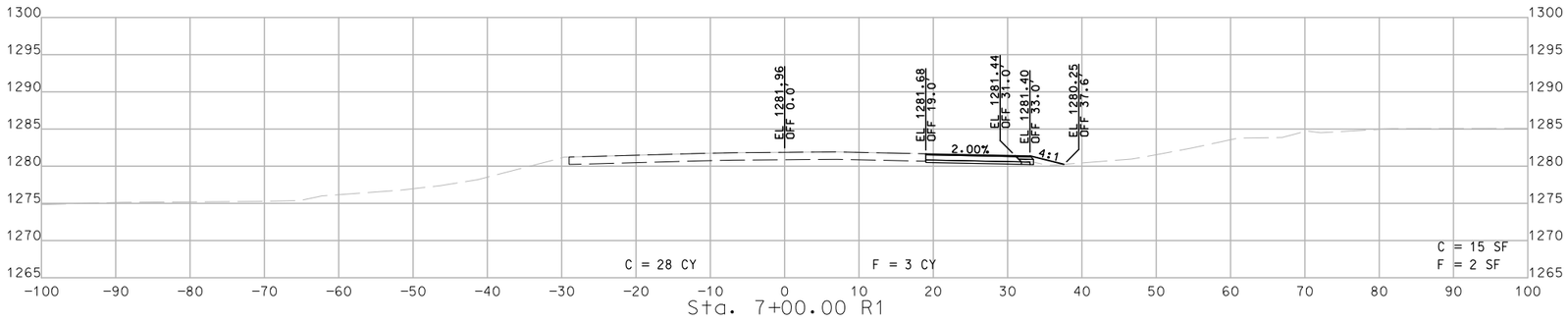

SCALE

0 10 20 30

STA. 5+22.41 R1 TO STA. 7+00.00 R1

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
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DATE PREPARED
11/30/2017

ROUTE	STATE
60/37	MO
DISTRICT	SHEET NO.
SW	1

COUNTY
BARRY

JOB NO.
J7P0881

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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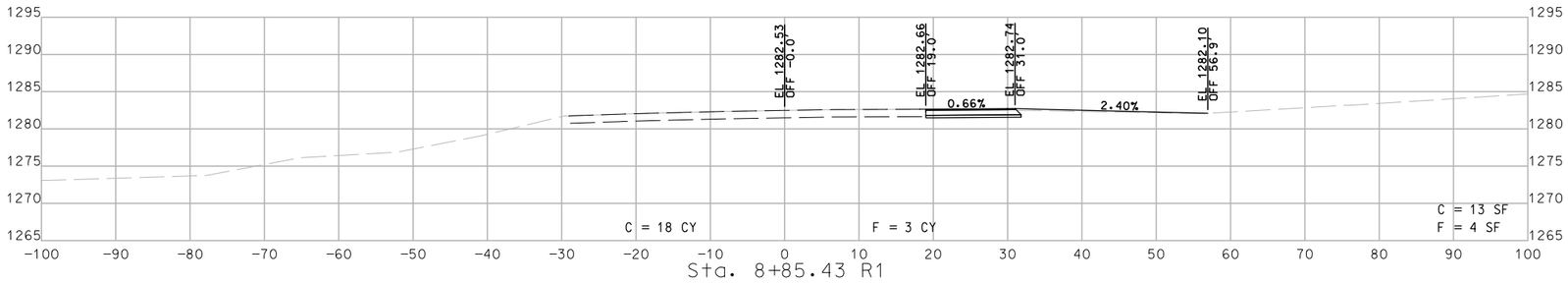
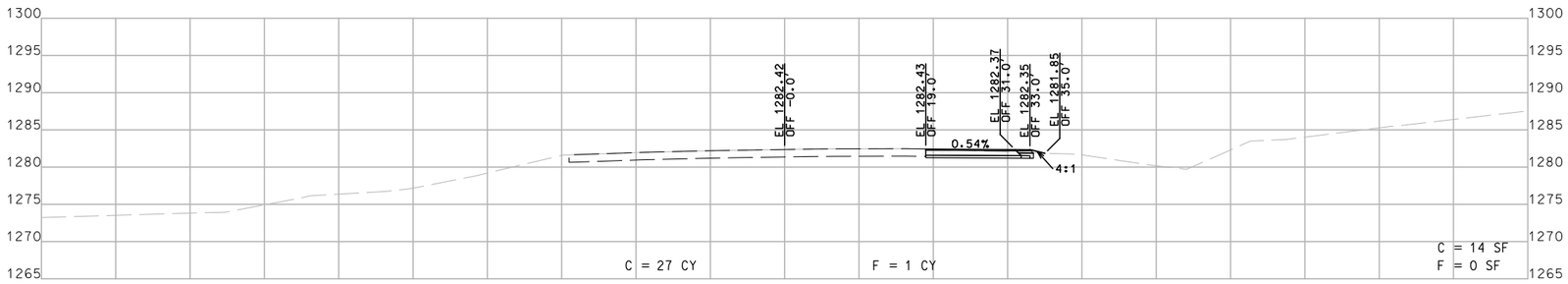
SCALE

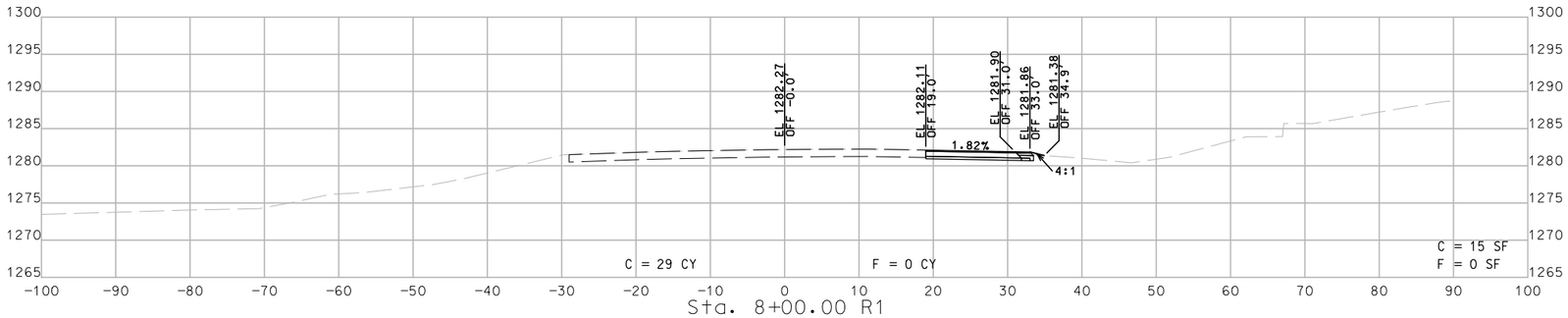
0 10 20 30



Sta. 8+85.43 R1



Sta. 8+50.00 R1



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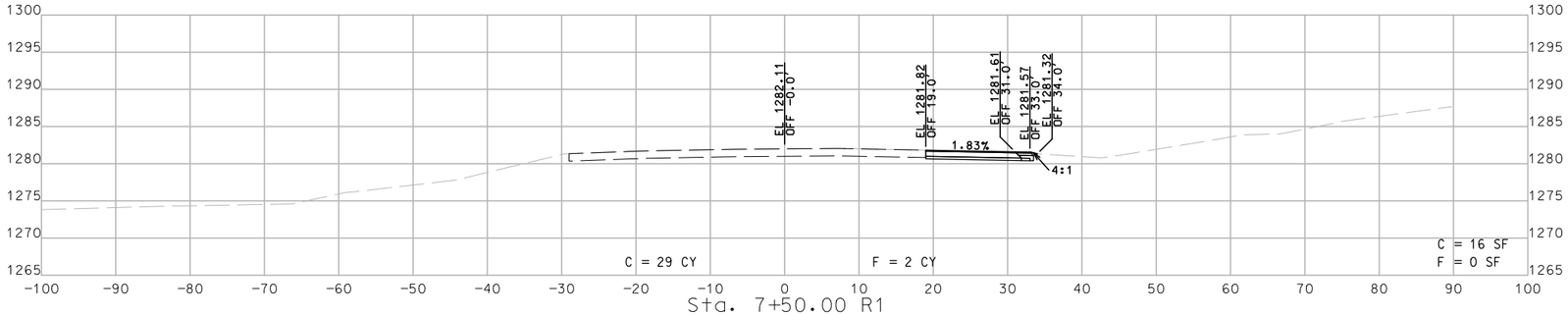

Sta. 7+50.00 R1

STA. 7+50.00 R1 TO STA. 8+85.43 R1

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
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DATE PREPARED
11/30/2017

ROUTE	STATE
60/37	MO
DISTRICT	SHEET NO.
SW	2

COUNTY
BARRY

JOB NO.
J7P0881

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett&West
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CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

SCALE

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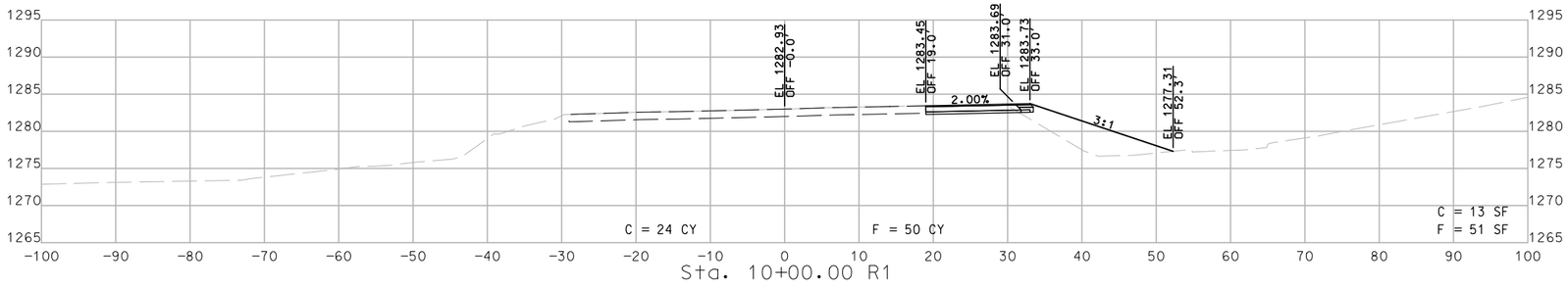

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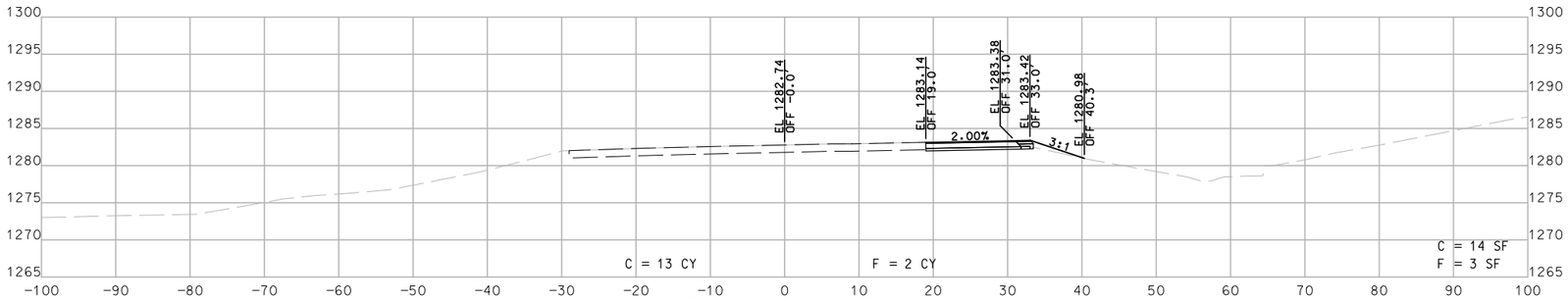
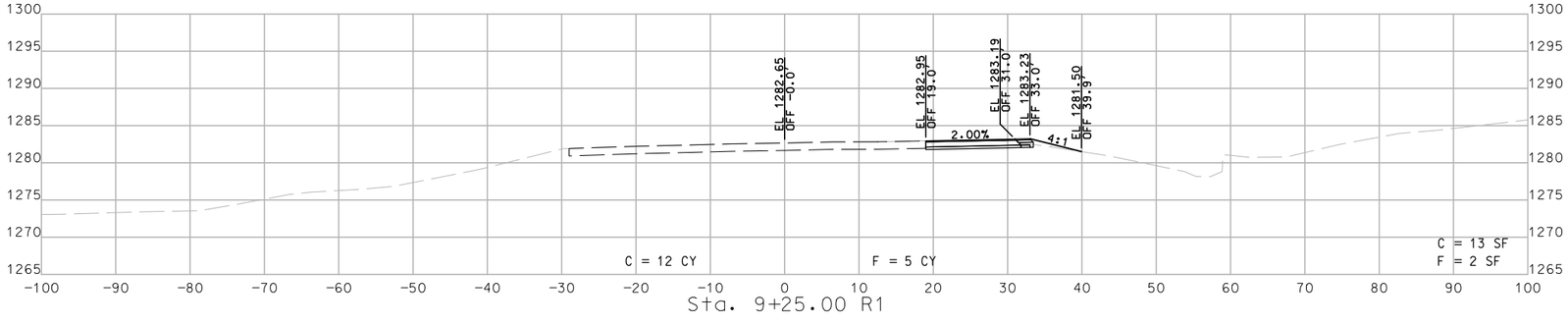


Sta. 9+50.00 R1



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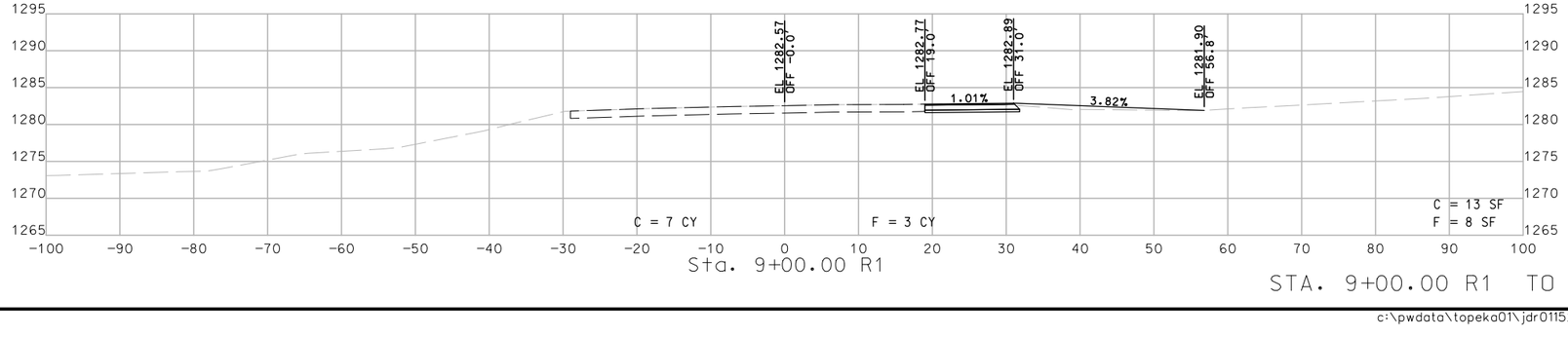


Sta. 9+00.00 R1

STA. 9+00.00 R1 TO STA. 10+00.00 R1

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 11/30/2017

ROUTE	STATE
60/37	MO
DISTRICT	SHEET NO.
SW	3

COUNTY: BARRY

JOB NO.: J7P0881

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

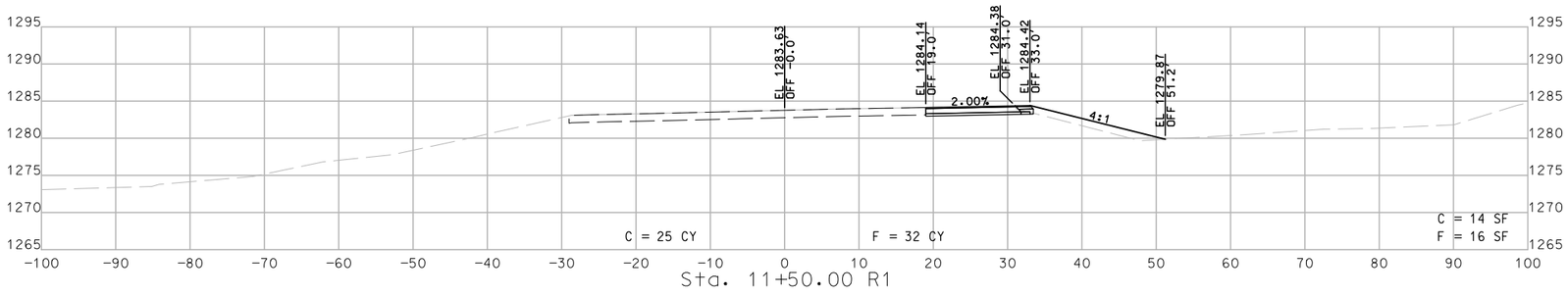
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett&West

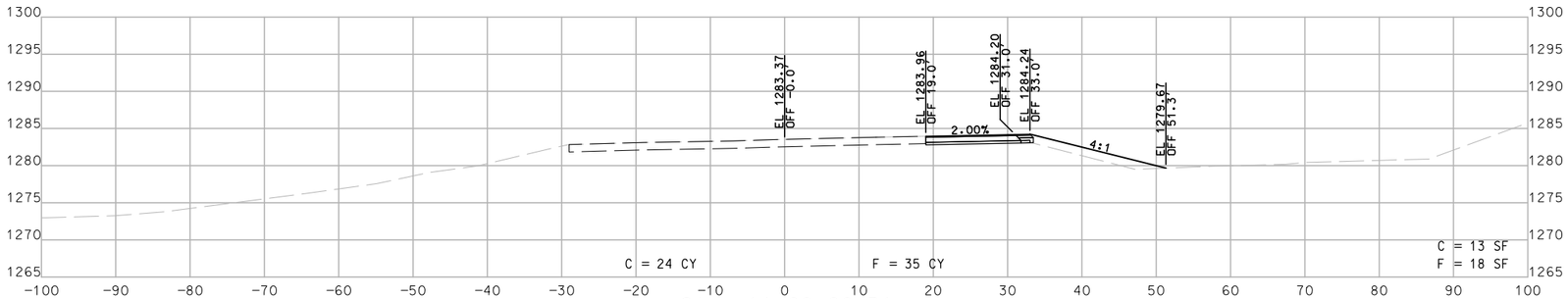
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

SCALE

0 10 20 30



Sta. 11+50.00 R1



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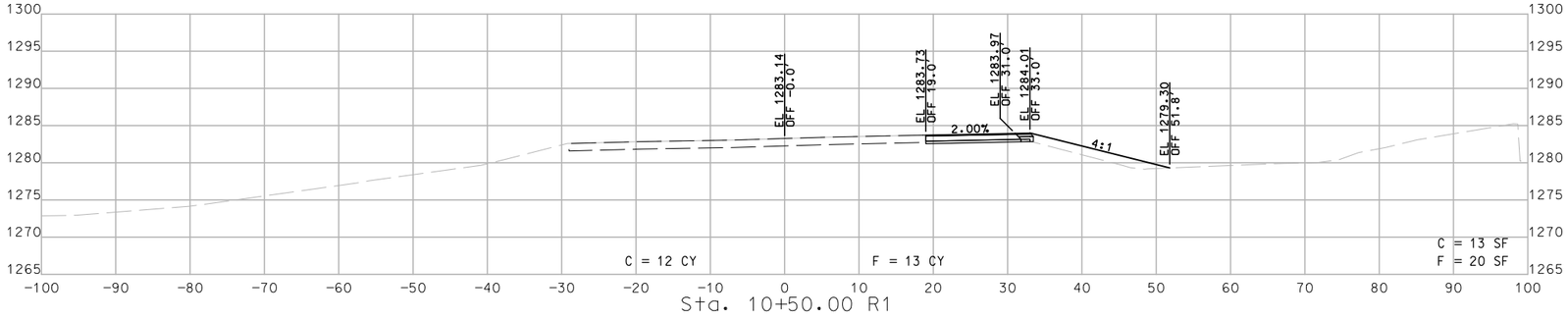

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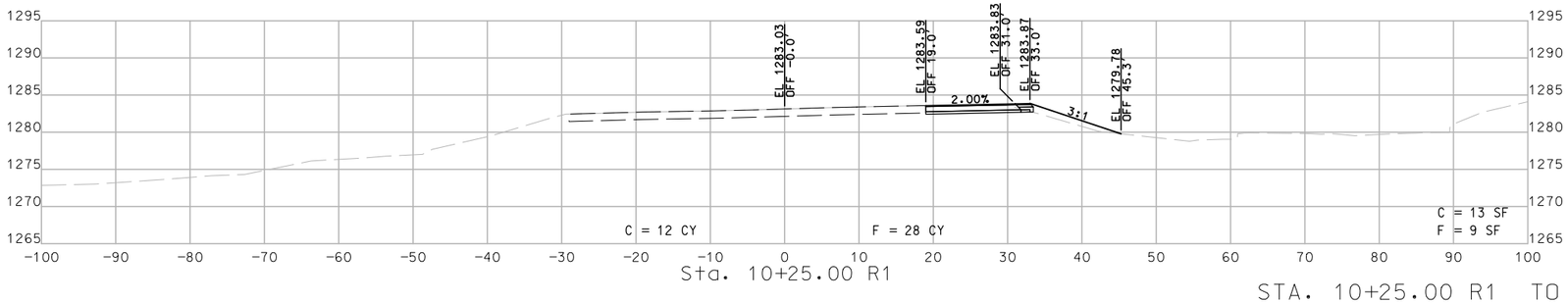

Sta. 10+25.00 R1

STA. 10+25.00 R1 TO STA. 11+50.00 R1

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
11/30/2017

ROUTE	STATE
60/37	MO
DISTRICT	SHEET NO.
SW	4

COUNTY
BARRY

JOB NO.
J7P0881

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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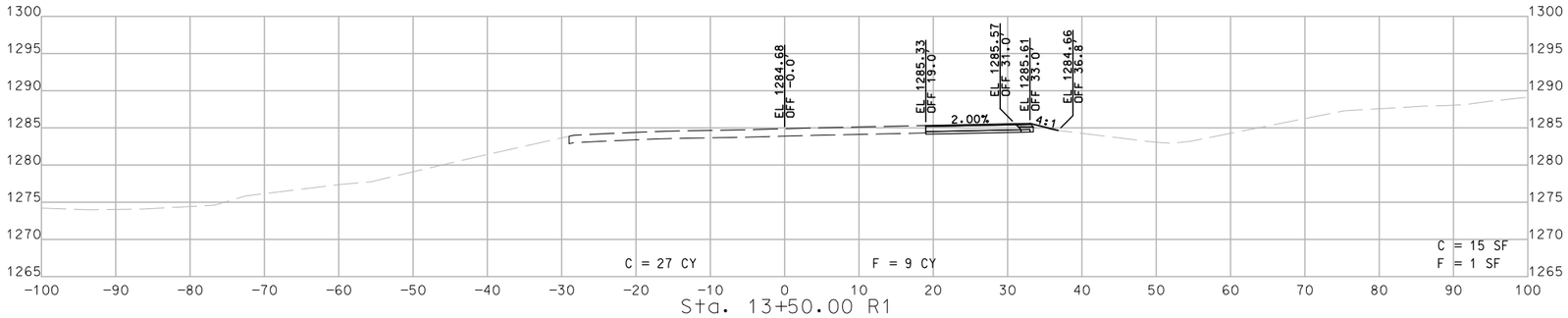

SCALE

0 10 20 30

STA. 12+00.00 R1 TO STA. 13+50.00 R1

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
11/30/2017

ROUTE	STATE
60/37	MO
DISTRICT	SHEET NO.
SW	5

COUNTY
BARRY

JOB NO.
J7P0881

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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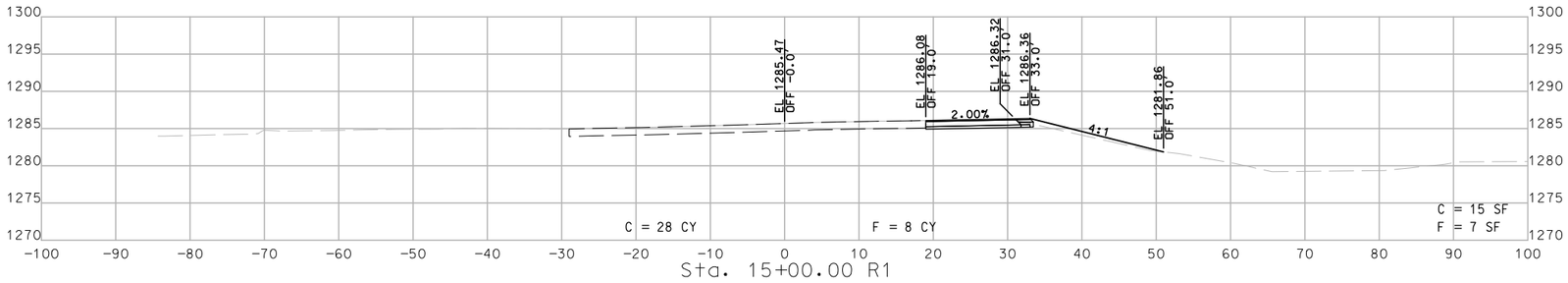
SCALE

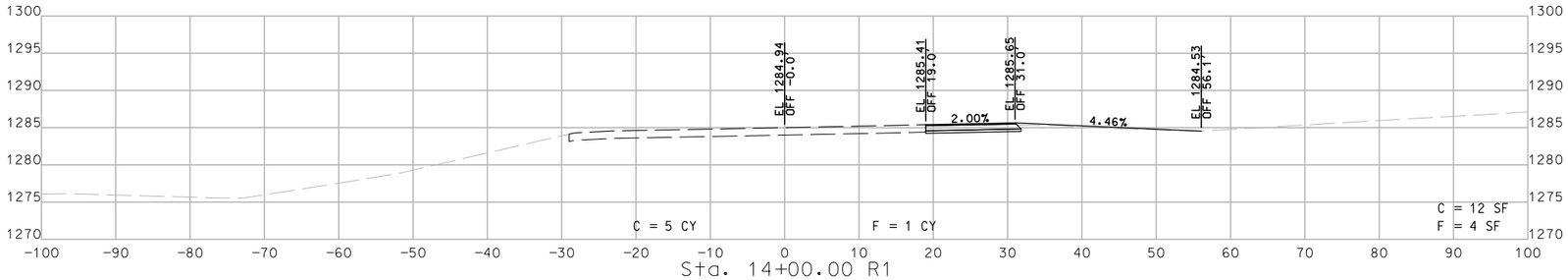
0 10 20 30



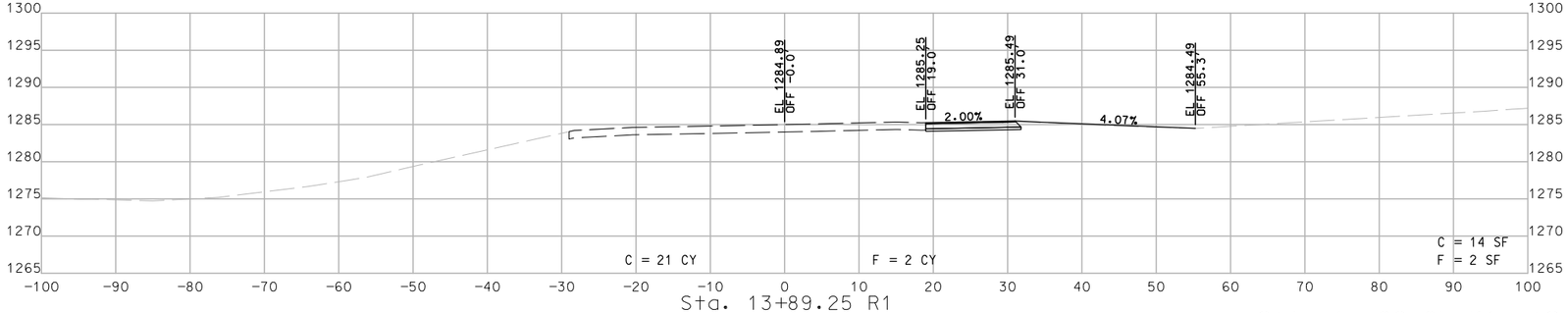
Sta. 15+00.00 R1



Sta. 14+50.00 R1



Sta. 14+00.00 R1



Sta. 13+89.25 R1

STA. 13+89.25 R1 TO STA. 15+00.00 R1

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 11/30/2017

ROUTE	STATE
60/37	MO
DISTRICT	SHEET NO.
SW	6

COUNTY BARRY

JOB NO. J7P0881

CONTRACT ID.

PROJECT NO.

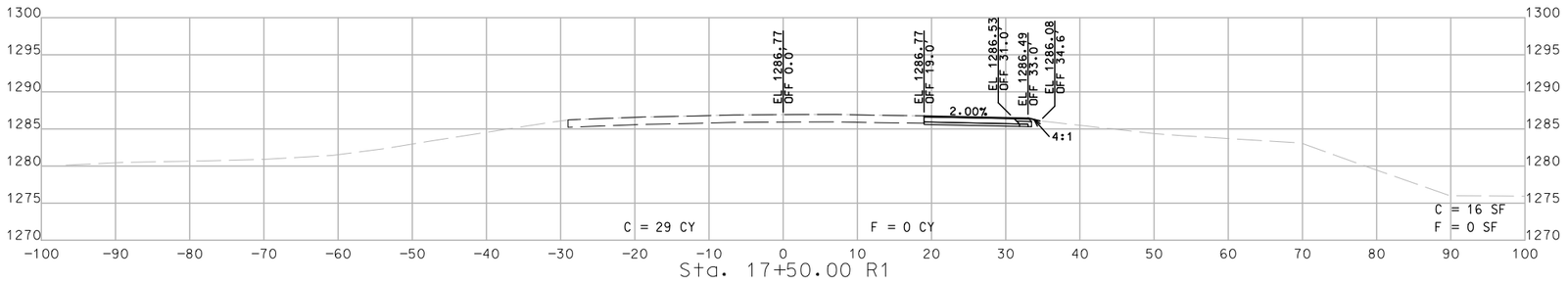
BRIDGE NO.

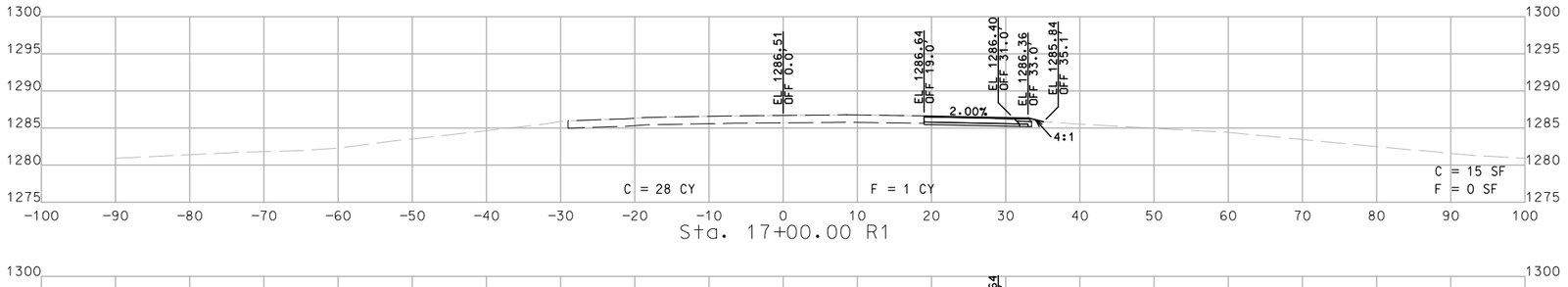
DESCRIPTION	DATE

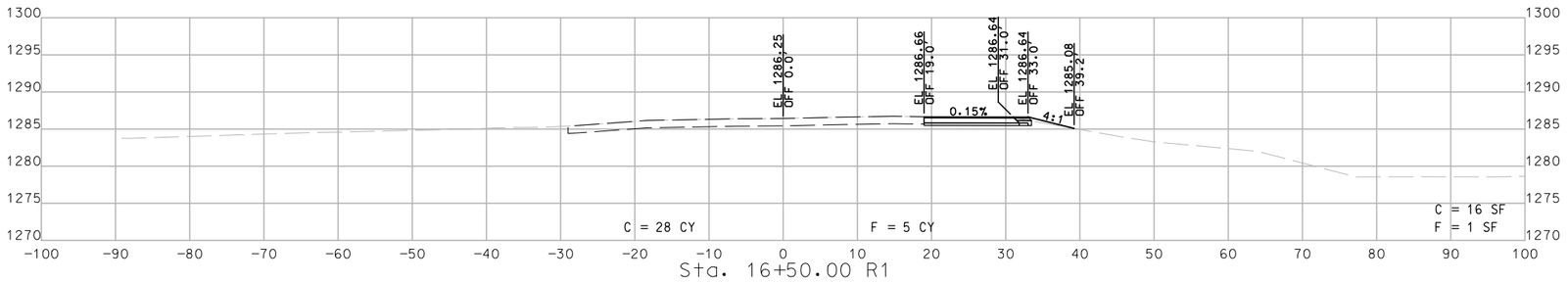
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

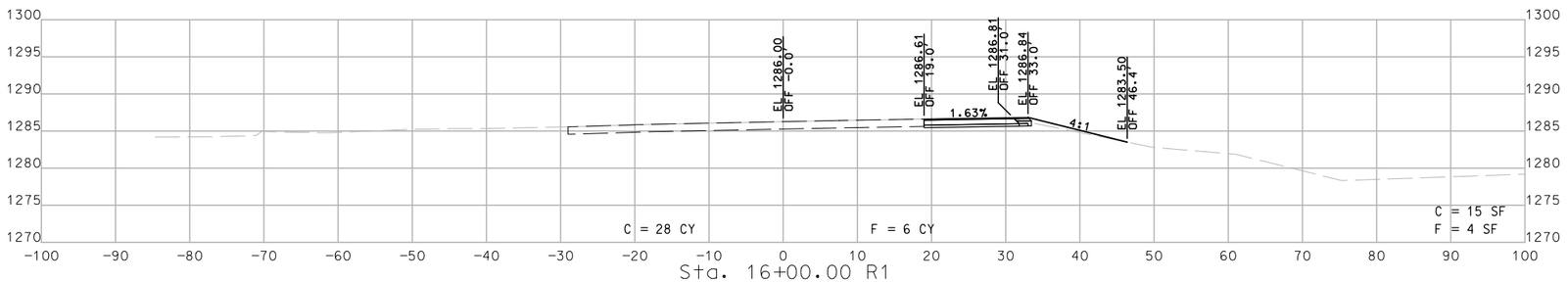
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

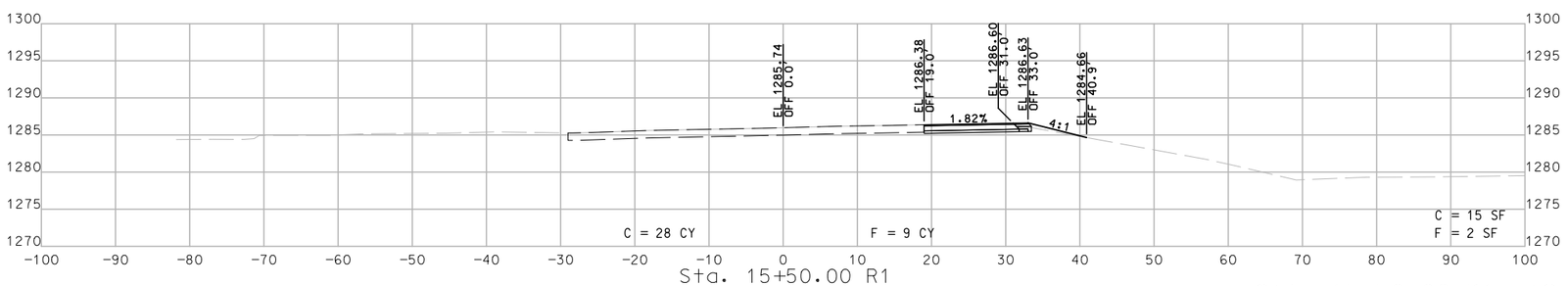
Bartlett&West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM











STA. 15+50.00 R1 TO STA. 17+50.00 R1

SCALE
0 10 20 30

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
11/30/2017

ROUTE	STATE
60/37	MO
DISTRICT	SHEET NO.
SW	7

COUNTY
BARRY

JOB NO.
J7P0881

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

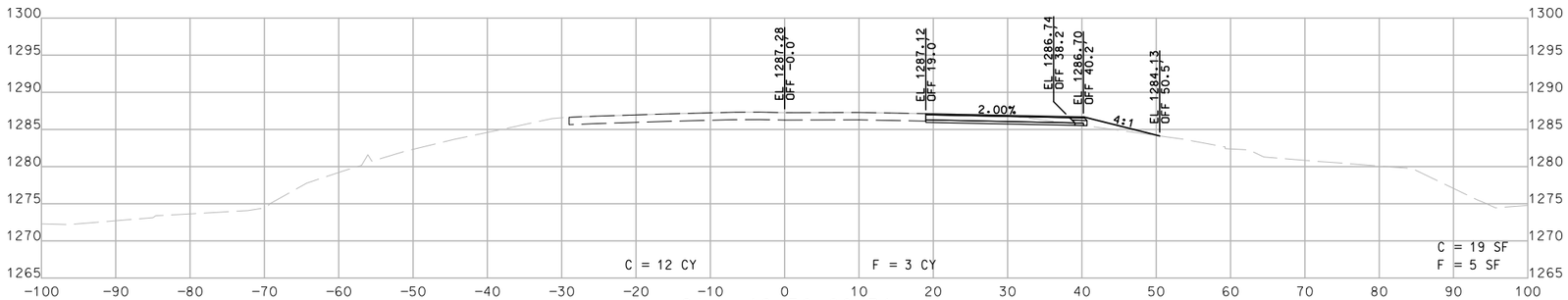
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

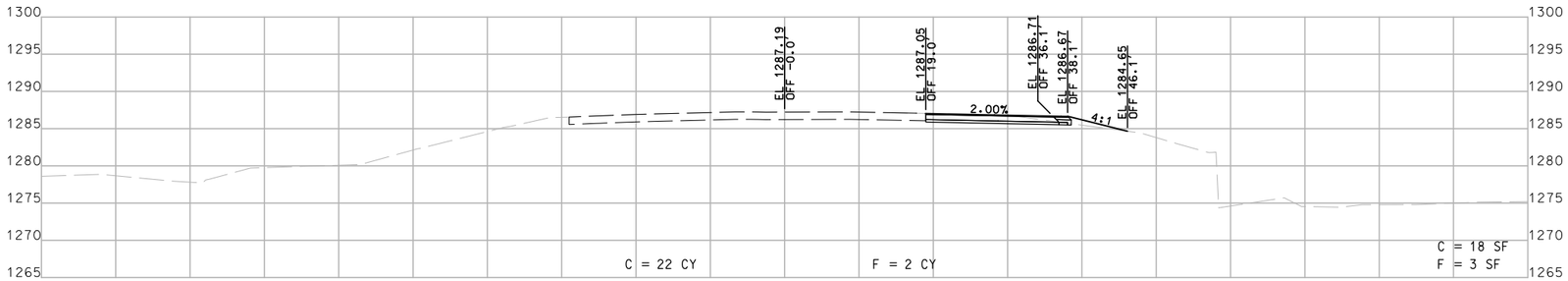
Bartlett&West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

SCALE

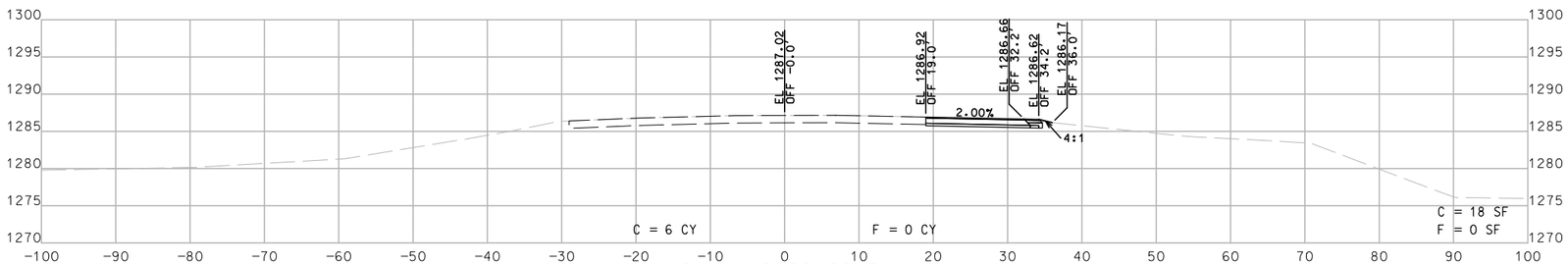
0 10 20 30



Sta. 18+50.00 R1



Sta. 18+32.25 R1



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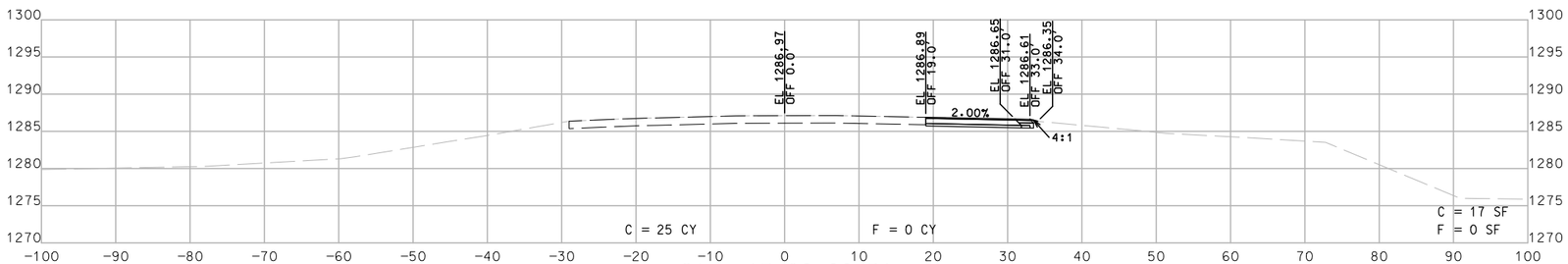


Sta. 17+90.00 R1

STA. 17+90.00 R1 TO STA. 18+50.00 R1

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
11/30/2017

ROUTE	STATE
60/37	MO
DISTRICT	SHEET NO.
SW	8

COUNTY
BARRY

JOB NO.
J7P0881

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

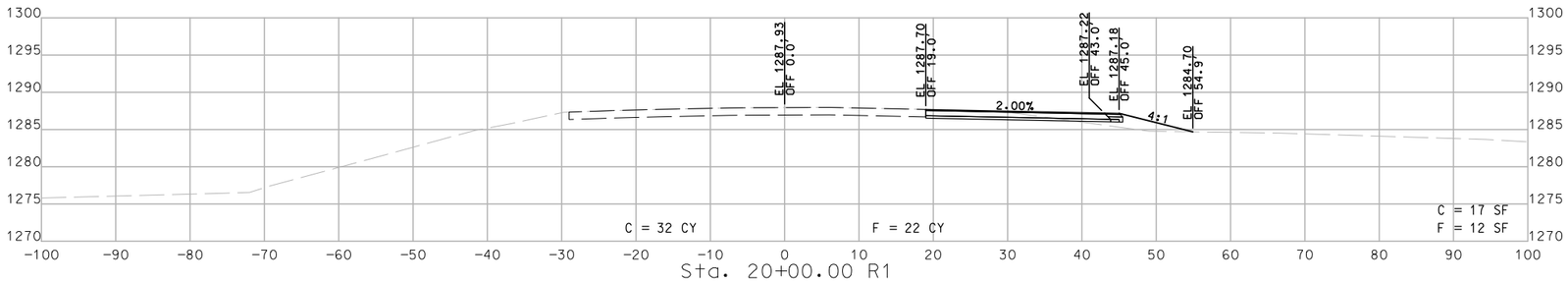
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett&West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

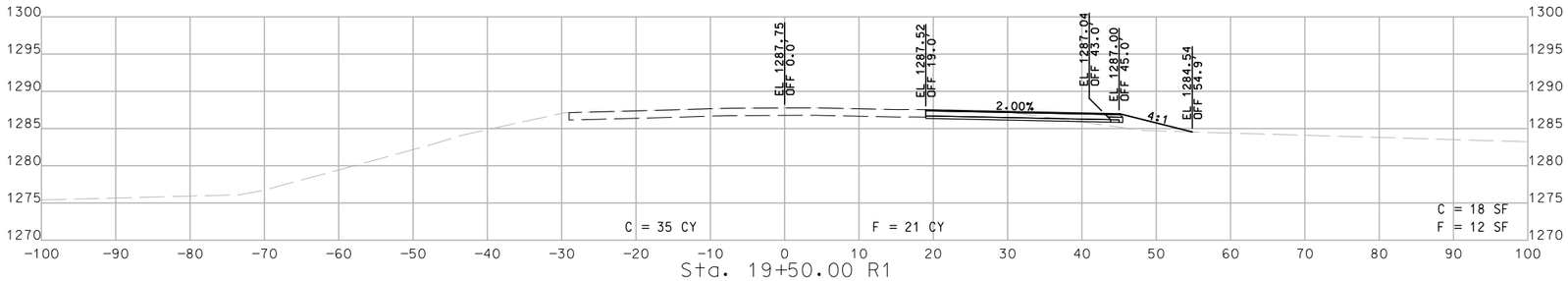
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

SCALE

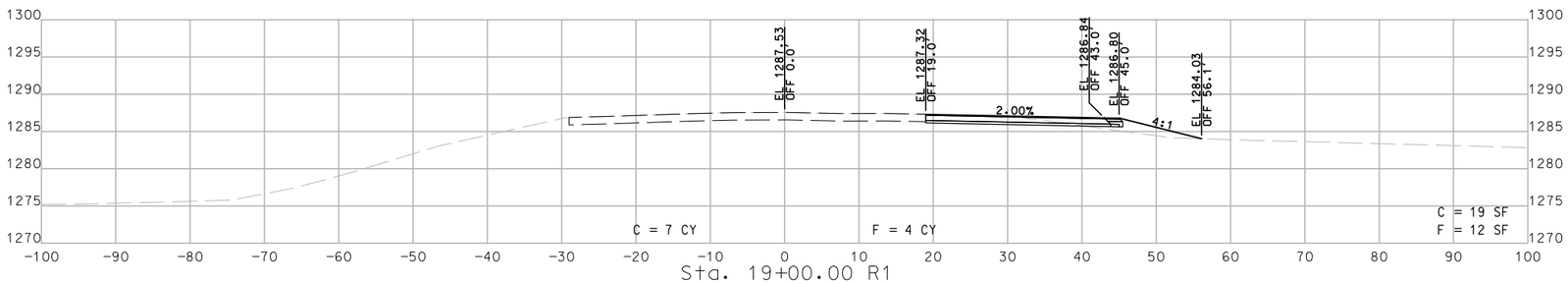
0 10 20 30



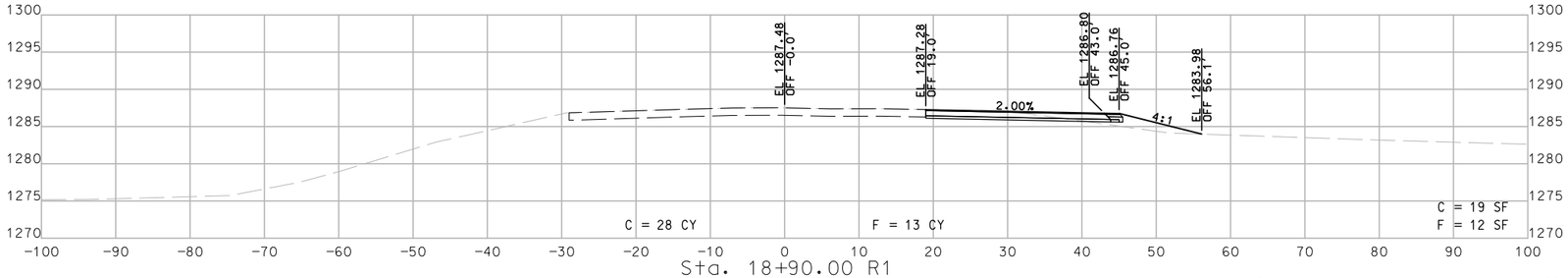
Sta. 20+00.00 R1



Sta. 19+50.00 R1



Sta. 19+00.00 R1



Sta. 18+90.00 R1

STA. 18+90.00 R1 TO STA. 20+00.00 R1

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
11/30/2017

ROUTE	STATE
60/37	MO
DISTRICT	SHEET NO.
SW	9

COUNTY
BARRY

JOB NO.
J7P0881

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

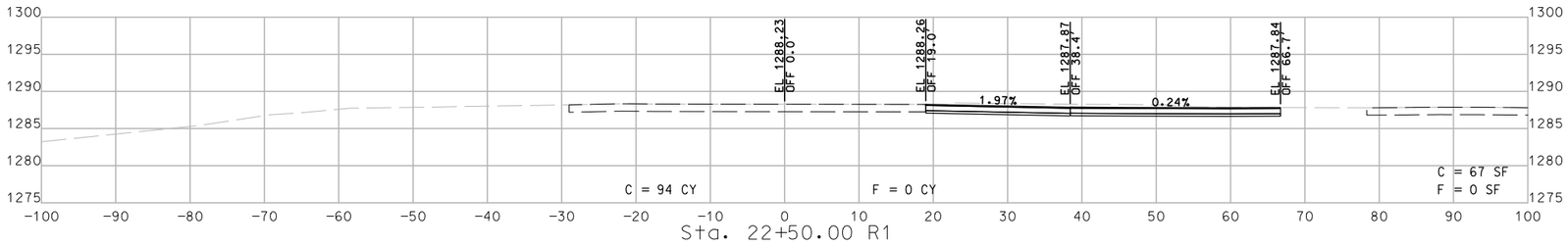
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

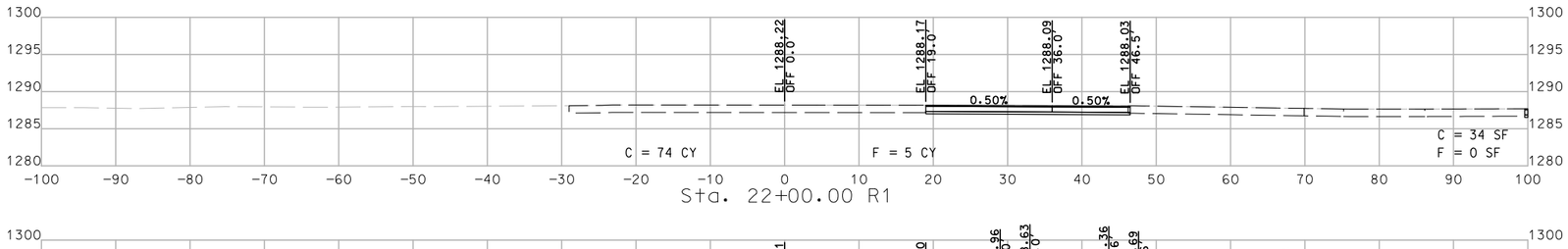
Bartlett&West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

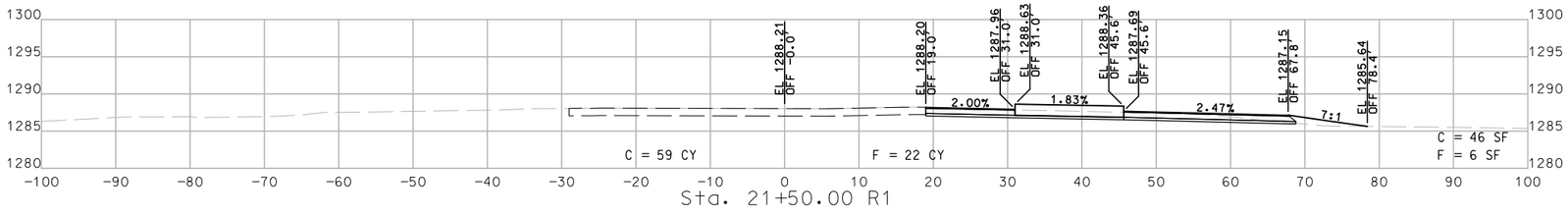
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

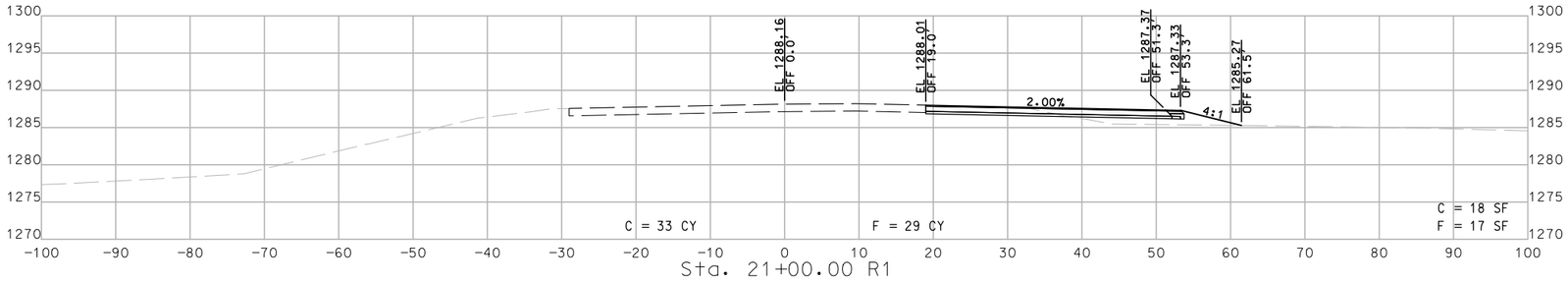
SCALE

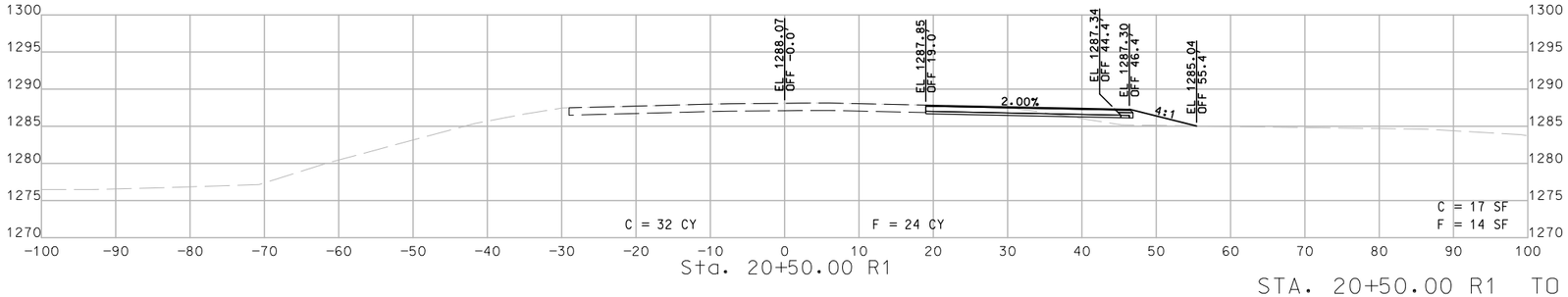
0 10 20 30











STA. 20+50.00 R1 TO STA. 22+50.00 R1

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
11/30/2017

ROUTE	STATE
60/37	MO
DISTRICT	SHEET NO.
SW	10

COUNTY
BARRY

JOB NO.
J7P0881

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

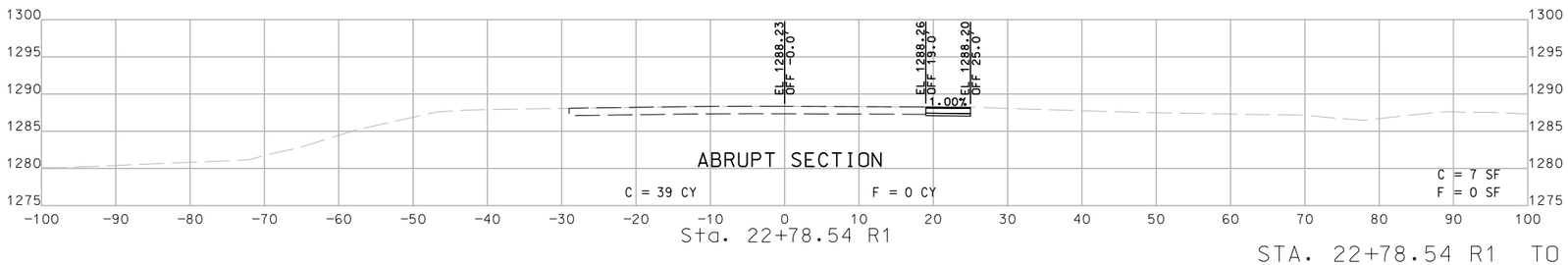
MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett&West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

SCALE

0 10 20 30



STA. 22+78.54 R1 TO STA. 22+78.54 R1

STATE OF MISSOURI
HERBERT R. BAILEY
NUMBER E-17231
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
11/30/2017

ROUTE	STATE
60/37	MO
DISTRICT	SHEET NO.
SW	11

COUNTY
BARRY

JOB NO.
J7P0881

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

Bartlett&West
1719 SOUTHRIDGE DR. SUITE 100 - JEFFERSON CITY, MO 65109-4000
PHONE 573-634-3181 - FAX 573-634-7904
CERTIFICATE OF AUTHORITY NO. 000167 - ENGINEERING
WWW.BARTWEST.COM

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESIGN DESIGNATION

A.A.D.T. – 2010 = 13,630
A.A.D.T. – 2030 = 20,445
D.H.V. = 9%
T = 8%
V = 60 M.P.H.
D = 50%

FUNCTIONAL CLASSIFICATION: PRINCIPAL ARTERIAL

NO NEW RIGHT OF WAY

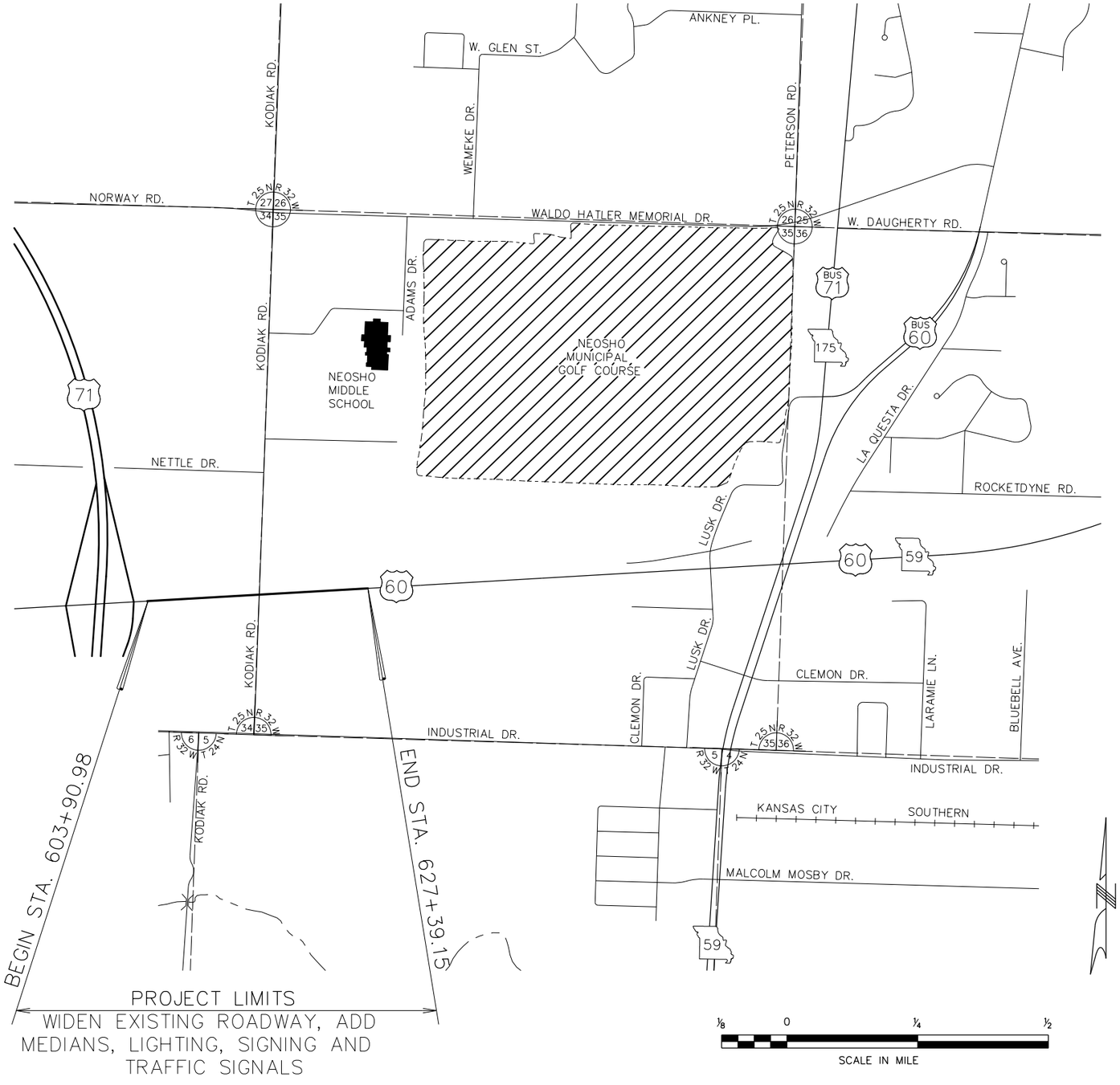
CONVENTIONAL SYMBOLS
(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
CONCRETE RIGHT–OF–WAY MARKER		
STEEL RIGHT–OF–WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	– FO –	FO
OVERHEAD TELEPHONE		
UNDERGROUND TELEPHONE	– T –	T
OVERHEAD POWER		
UNDERGROUND POWER	– P –	P
GAS	– G –	G
WATER	– W –	W
MANHOLE	SAN	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
DROP INLET	D	
DITCH BLOCK		
GROUND MOUNTED SIGN	SIGN	
LIGHT POLE		
H–FRAME POWER POLE		
TELEPHONE PEDESTAL	PED	
FENCE		
CHAIN LINK	V	
WOVEN WIRE	X	
GATE POST		
BENCHMARK	BM	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

✓FINAL PLANS FOR
STATE HIGHWAY
NEWTON COUNTY



INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
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QUANTITIES	2A
QUANTITIES (QU) (4 SHEETS)	3
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SIGNALS (SG)	22–27
SIGNING (SN)	28–31
PAVEMENT MARKING (PM)	34–36
CULVERT SECTIONS (CS)	37

LENGTH OF PROJECT

BEGINNING OF PROJECT	STA. 603+90.98	
END OF PROJECT	STA. 627+39.15	
APPARENT LENGTH	2348.17	FEET
EQUATIONS AND EXCEPTIONS:		
TOTAL CORRECTIONS	0.00	FEET
NET LENGTH OF PROJECT	2348.17	FEET
STATE LENGTH	0.445	MILES

DATE PREPARED 04/12/2012
ROUTE 60 | STATE MO
DISTRICT 7 | SHEET NO. 1
COUNTY ✓NEWTON
JOB NO. ✓J7P2177
CONTRACT ID. ✓120727–G02
PROJECT NO. ✓FAF–60–1(39)
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1–888–ASK–MODOT (1–888–275–6636)

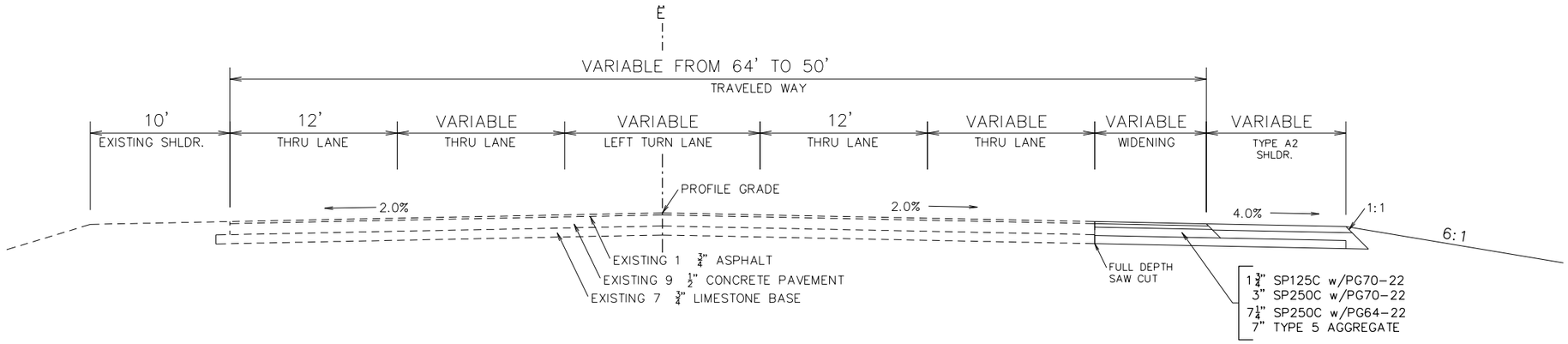
URS

TITLE SHEET

✓FINAL PLANS

REV.

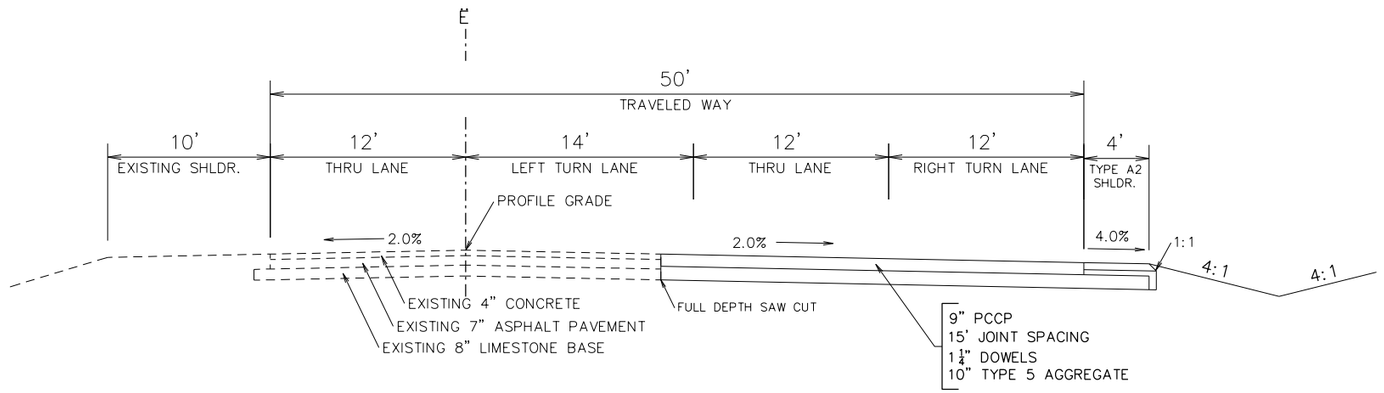
T:\J7P2177\PLAN_SHEETS\FINAL\001_TITLE_J7P2177_ITITLE.dgn 2:06:04 PM 8/20/2009



ROUTE 60

SECTION ON TANGENT

STA. 603+90.98 TO STA. 607+78.31



ROUTE 60

SECTION ON TANGENT

STA. 607+78.31 TO STA. 613+93.96

DATE PREPARED
04/12/2012

ROUTE 60 | STATE MO

DISTRICT 7 | SHEET NO. 2

COUNTY
✓ NEWTON

JOB NO.
✓ J7P2177

CONTRACT ID.
✓ 120727-G02

PROJECT NO.
✓ FAF-60-1(39)

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

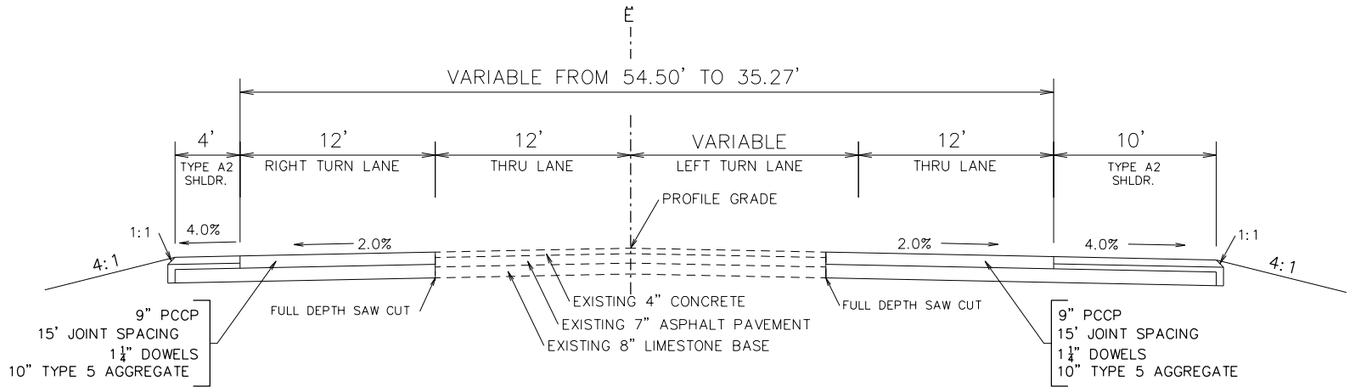
URS

TYPICAL SECTION
ROUTE 60

SHEET 1 OF 3

✓ FINAL PLANS

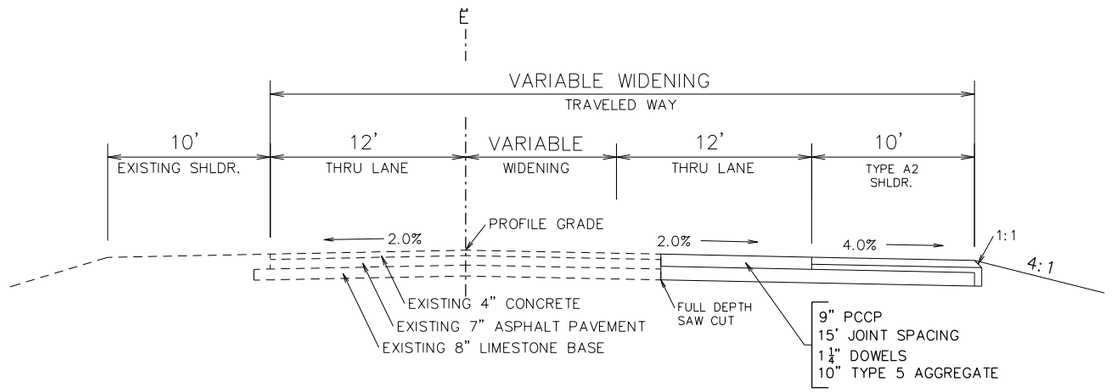
REV.



ROUTE 60

SECTION ON TANGENT

STA. 616+42.81 TO STA. STA. 620+67.60



ROUTE 60

SECTION ON TANGENT

STA. 620+67.60 TO STA. 627+39.15

DATE PREPARED
04/12/2012

ROUTE 60 | STATE MO

DISTRICT 7 | SHEET NO. 2

COUNTY
✓ NEWTON

JOB NO.
✓ J7P2177

CONTRACT ID.
✓ 120727-G02

PROJECT NO.
✓ FAF-60-1(39)

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

URS

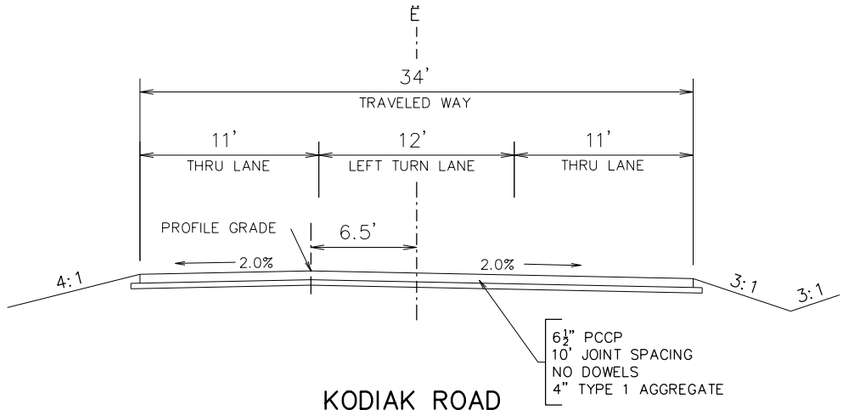
TYPICAL SECTION
ROUTE 60

SHEET 2 OF 3

✓ FINAL PLANS

REV.

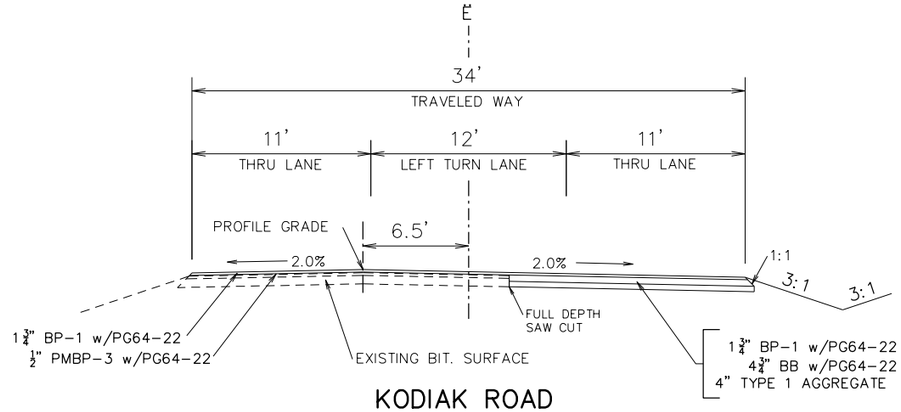
T:\J7P2177\PLAN_SHEETS\FINAL\002_TS_02_J7P2177_I5_RTE60.dgn 2:47:49 PM 8/24/2009



KODIAK ROAD

SECTION ON TANGENT

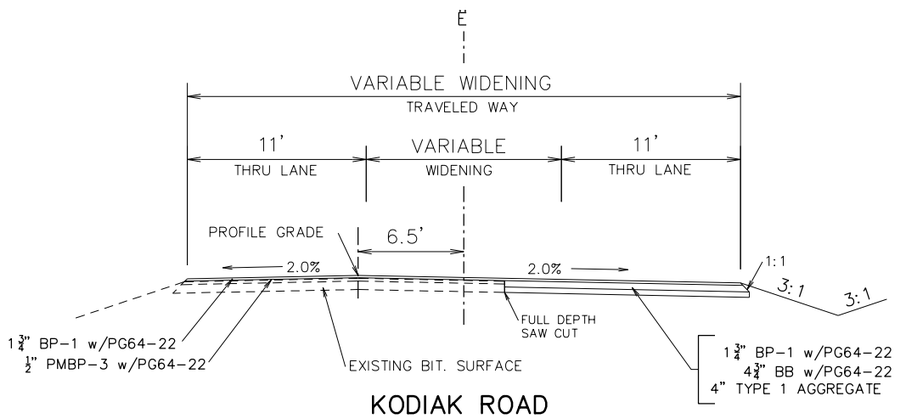
STA. 16+42.35 TO STA. 17+05.00



KODIAK ROAD

SECTION ON TANGENT

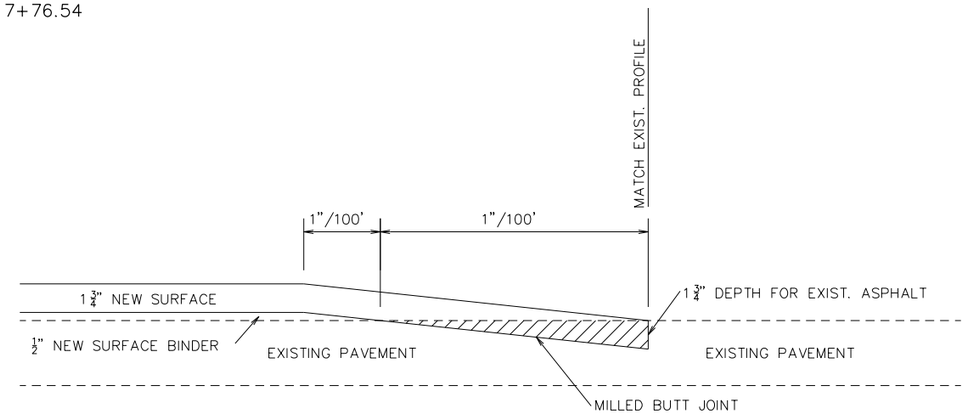
STA. 17+05.00 TO STA. 17+76.54



KODIAK ROAD

SECTION ON TANGENT

STA. 17+76.54 TO STA. 20+21.54



TYPICAL DEPTH TRANSITION

KODIAK ROAD

DATE PREPARED
04/12/2012

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
7	2

COUNTY
✓ NEWTON

JOB NO.
✓ J7P2177

CONTRACT ID.
✓ 120727-G02

PROJECT NO.
✓ FAF-60-1(39)

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

URS

TYPICAL SECTION
KODIAK ROAD
SHEET 3 OF 3

✓ FINAL PLANS

REV.

T:\J7P2177\PLAN_SHEETS\FINAL\002_TS_03_J7P2177_I5_KODIAK.dgn 2:48:31 PM 8/24/2009

SUMMARY OF QUANTITIES

THESE PLANS ACCURATELY DEPICT THE CONFIGURATION AND LOCATION OF THE ROADWAY AND ALL APPURTENANCE FEATURES, INCLUDING MODIFICATIONS DESIGNATED OR AUTHORIZED BY THE ENGINEER OF RECORD.

RESIDENT ENGINEER__

Digitally signed by Gregory R. Chapman, P.E.
DN: cn=Gregory R. Chapman, P.E., o=MoDOT, ou=Joplin Construction, email=gregory.r.chapman@modot.mo.gov, c=US
Date: 2014.07.25 08:02:08 -05'00'

REV. AUGUST 2008

SHEET 1 OF 1

LINE NO.	ITEM	DESCRIPTION	UNIT	QUANTITY
	*	ROADWAY ITEMS - J7P2177		
0010	202-20.10	REMOVAL OF IMPROVEMENTS	LS	0
0011	202-20.10	REMOVAL OF IMPROVEMENTS	LS	1
0020	203-10.00	CLASS A EXCAVATION	CUYD	4007
0030	203-60.00	COMPACTING EMBANKMENT	CUYD	1454
0040	203-70.75	COMPACTING IN CUT	STA	25.3
0050	207-10.00	LINEAR GRADING CLASS 1	STA	0.5
0060	304-01.43	TYPE 1 AGGREGATE FOR BASE (4 IN. THICK)	SQYD	559
0070	304-99.05	MISC. TYPE 5 AGGREGATE FOR BASE (7 IN. THICK)	SQYD	790.3
0080	304-99.05	MISC. TYPE 5 AGGREGATE FOR BASE (10 IN. THICK)	SQYD	6878.9
0090	310-50.03	GRAVEL (A) OR CRUSHED STONE (B)	SQYD	230
0100	401-01.50	TYPE A2 SHOULDER	SQYD	2283.7
0110	401-12.13	BITUMINOUS PAVEMENT MIXTURE PG64-22, (BP-3)	TONS	18.4
0120	401-99.05	MISC. 6.5 IN. BIT. PVMT MIX. PG64-22, (BP-1)	SQYD	329.4
0130	401-99.05	MISC.1.75 IN. BIT. PVMT MIX. PG64-22, (BP-1)	SQYD	699.3
0140	403-04.09	12 INCHES, ASPHALTIC CONCRETE PAVEMENT SP125C	SQYD	474.9
0150	407-10.05	TACK COAT	GAL	40
0160	502-13.09	CONCRETE PAVEMENT (9 IN. NON-REINFORCED 15 FT. JOINTS)	SQYD	4910.6
0170	502-99.05	MISC. 6.5 IN. PCCP, 10 FT. JOINT SPACING	SQYD	228.5
0180	608-30.08	8 IN. CONCRETE MEDIAN STRIP	SQYD	112.4
0190	616-10.05	CONSTRUCTION SIGNS	SQFT	513
0200	616-10.08	ADVANCED WARNING RAIL SYSTEM	EA	2
0210	616-10.10	RELOCATED SIGNS	SQFT	0
0220	616-10.25	CHANNELIZER (TRIM LINE)	EA	85
0230	616-10.31	TYPE III MOVEABLE BARRICADE WITH LIGHT	EA	6
0240	616-10.98	CHANGEABLE MESSAGE SIGN, CONTRACTOR FURNISHED, CONTRACTOR RE	EA	4
0250	618-10.00	MOBILIZATION	LS	1
0260	619-10.00	PAVEMENT EDGE TREATMENT	LF	1923
0270	620-51.20	TYPE 2 PREFORMED MARKING TAPE (GROOVED), 24 IN., WHITE	LF	98
0280	620-51.21	TYPE 2 PREFORMED MARKING TAPE (GROOVED), 24 IN., YELLOW	LF	586
0290	620-51.30	TYPE 2 PREFORMED MARKING TAPE (GROOVED), LEFT/RIGHT ARROW	EA	9
0300	620-51.33	TYPE 2 PREFORMED MARKING TAPE (GROOVED), WORD (ONLY)	EA	3
0310	620-54.01B	PREFORMED SHORT TERM MARKING TAPE 4 IN. WHITE	LF	5815
0320	620-54.03B	PREFORMED SHORT TERM MARKING TAPE 4 IN., YELLOW	LF	8166
0330	620-60.01B	4 IN. YELLOW ACRYLIC WATERBORNE PAVEMENT MARKING PAINT	LF	10245
0340	620-61.06	ACRYLIC WATERBORNE PAVEMENT MARKING PAINT, 6 IN., WHITE	LF	8496
0350	620-70.01	PAVEMENT MARKING REMOVAL	LF	9285
0360	622-40.10	MODIFIED COLDMILLING (DEPTH TRANSITIONS)	SQYD	390
0370	626-10.00A	BITUMINOUS SHOULDER RUMBLE STRIP	STA	0
0380	627-40.00	CONTRACTOR FURNISHED SURVEYING AND STAKING	LS	1
0390	725-03.18A	18 IN. PIPE GROUP B	LF	63
0400	725-04.18	18 IN. PIPE GROUP C	LF	50
0410	732-00.18A	18 IN. OR ALLOWED SUBSTITUTE GROUP B FLARED END SECTION	EA	2
0420	732-08.18A	18 IN. OR ALLOWED SUBSTITUTE GROUP C FLARED END SECTION	EA	2
0430	805-10.00A	SEEDING - COOL SEASON MIXTURES	ACRE	2.6
0440	806-10.16	SEDIMENT REMOVAL	CUYD	16

LINE NO.	ITEM	DESCRIPTION	UNIT	QUANTITY
0450	806-10.19	SILT FENCE	LF	0
0460	806-10.22	TYPE II DITCH CHECK	EA	22
5001	109-99.01	MISC. Adjustment for extended delays	LS	1
5002	214-99.07	MISC. Rock Fill 3-5" capped with 3" Minus	CUYD	258
5003	616-10.09	FLAG ASSEMBLY	EA	13
5004	104-60.01	VALUE ENGINEERING	L S	1
5005	616-99.02	MISC. In Partnership with Neosho TDD signs	EA	2
	*	HIGHWAY LIGHTING ITEMS - J7P2177		
0470	901-10.30	LIGHTING POLE, 30 FT. OR 9.0 M, TYPE AT	EA	2
0480	901-11.15	BRACKET ARM, 15 FT. OR 4.6 M	EA	2
0490	901-30.02	CONDUIT, 2 IN. RIGID, IN TRENCH	LF	152
0500	901-30.03	CONDUIT, 3 IN. RIGID, IN TRENCH	LF	154
0510	901-30.04	CONDUIT, 4 IN. RIGID, IN TRENCH	LF	63
0520	901-40.04	CONDUIT, 4 IN. RIGID, PUSHED	LF	153
0530	901-70.08	CABLE, 8 AWG 1 CONDUCTOR	LF	1140
0540	901-71.10	CABLE, 10 AWG 1 CONDUCTOR, POLE AND BRACKET	LF	180
0550	901-82.30	POLE FOUNDATION (30 FT. OR 9.0 M MOUNTING HEIGHT)	EA	2
	*	TRAFFIC SIGNAL ITEMS - J7P2177		
0560	902-05.13	SIGNAL HEAD, TYPE 3B	EA	10
0570	902-05.15	SIGNAL HEAD, TYPE 5B	EA	2
0580	902-26.50	150 WATT 120 VOLT HIGH PRESSURE SODIUM LUMINAIRE	EA	6
0590	902-31.30	POST, TYPE CL, 30-35 FT. ARM	EA	4
0600	902-42.81	CONTROLLER ASSEMBLY HOUSING, KEYBOARD ENTRY, 8 PHASE NEMA CO	EA	1
0610	902-81.00	CABLE, 10 AWG 1 CONDUCTOR, POLE AND BRACKET	LF	350
0620	902-82.08	CABLE, 8 AWG 1 CONDUCTOR, POWER	LF	50
0630	902-83.02	CABLE, 12 AWG 2 CONDUCTOR	LF	810
0640	902-83.11	CABLE, 16 AWG 7 CONDUCTOR	LF	1770
0650	902-86.21	POWER SUPPLY ASSEMBLY, TYPE-2 WITH 120V LIGHTING CONTROL CAB	EA	1
0660	902-88.10	PULL BOX, PREFORMED CLASS 1	EA	2
0670	902-88.11	PULL BOX, PREFORMED CLASS 2	EA	4
0680	902-88.12	PULL BOX, PREFORMED CLASS 3	EA	1
0690	902-91.00	BASE, CONCRETE	CUYD	14
0700	902-99.02	MISC. OPTIONAL TRAFFIC SIGNAL DETECTOR SYSTEM	EA	1
	*	HIGHWAY SIGNING ITEMS - J7P2177		
0710	903-10.10	CONCRETE FOOTINGS, EMBEDDED	CUYD	1.2
0720	903-12.10	STRUCTURAL STEEL POSTS	LB	60
0730	903-12.70A	PERFORATED SQUARE STEEL TUBE POST, 2 IN., 12 GA.	LF	144
0740	903-12.71	PERFORATED SQUARE STEEL TUBE POST ANCHOR, 12 GA.	LF	36
0750	903-50.04	TYPE SHR2L-1 SIGN	SQFT	61
0760	903-50.68	SIGNAL SIGN, TYPE SHR2L-1	SQFT	20
0770	903-99.04	MISC. RELOCATED HIGHWAY SIGNING - EXISTING	SQFT	39

PROJ. ACCEPT: 9-9-13
PREPARED BY:
CHECKED BY:
REVIEWED BY:
DIST. OFFICE:
SUPPORT CTR:

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED: 7/2/2013
ROUTE: 60
STATE: MO
DISTRICT: SW
SHEET NO.: 2A
COUNTY: NEWTON
JOB NO.: J7P2177
CONTRACT ID.: 120727-G02
PROJECT NO.: FAF-60-1(39)
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

REMOVAL OF IMPROVEMENTS
LUMP SUM = ✓ 0

REMOVAL OF IMPROVEMENTS (LINE NO. 0011)
LUMP SUM = ✓1

EARTHWORK

SHEET	STA. TO STA.	LOCATION	CLASS A EXC (C.Y.)	COMPACTING EMBANKMENT (C.Y.)	COMPACTING IN CUT (STATIONS)	MISC ROCK FILL (CONT. ITEM 5002)	REMARKS
5	603+90.98 – 627+39.15	ROUTE 60	3525	1371	23.5		
6	15+22.17 – 17+05.00	KODIAK ROAD			1.8		KODIAK ROAD SOUTH OF RTE 60
6	17+05.00 – 20+21.54	KODIAK ROAD	224	83			
	15+84–17+00	KODIAK ROAD	*258			*258	KODIAK ROAD SOUTH OF RTE 60
		TOTALS =	4007	1454	25.3	258	
		USE =	✓ 4007	✓ 1454	✓ 25.3	✓258	

* Undergrading Field Measured (116'X40'X1.5')/27=258 CY

BASE & PAVEMENT QUANTITIES 12" HMA SUPERPAVE			
	12" SP125C WIDENING (S.Y.)	A2 SHOULDER (S.Y.)	7" TYPE 5 BASE (S.Y.)
USE =	✓474.9	✓315.4	✓790.3

ENTRANCES

	Group C Pipe	Group B Pipe	F.E.S. Group C	F.E.S. Group B	Gravel A or Crushed Stone B (S.Y.)	Linear Grading Class 1 (ft.)
	18"	18"	18"	18"		
Use =	✓50	✓63	✓2	✓2	✓ 230	✓0.5 Sta.

RESURFACING PAVEMENT QUANTITIES

SHEET	STA. TO STA.	LOCATION	½" PMBP–3 (PG64–22) 1.893 TON/C.Y. (TONS)	1¾" BP–1 (PG64–22) (SQUARE YARDS)	TACK (1 LIFT) 0.05 GAL/S.Y. (GAL.)
4	17+05.00 – 20+21.54	KODIAK ROAD	18.4	699.3	35
		TOTALS =	18.4	699.3	35
		USE =	✓18.4	✓ 699.3	✓40

BASE & PAVEMENT QUANTITIES 6 ½" HMA		
	6½" BP–1 WIDENING (S.Y.)	4" TYPE 1 BASE (S.Y.)
USE =	✓ 329.4	✓330.0

BASE & PAVEMENT QUANTITIES 6 ½" PCCP		
	6½" PCCP WIDENING (S.Y.)	4" TYPE 1 BASE (S.Y.)
USE =	✓228.5	✓229.0

PREFORMED SHORT TERM MARKING TAPE

SHEET	STA. TO STA.	4" SOLID WHITE (L.F.)	4" SOLID YELLOW (L.F.)	REMARKS
14–18	602+67.00 – 630+40.00	5815	8166	STAGE 1 AND STAGE 2 LANE SHIFTS (FIELD MEASURED)
	TOTAL =	5815	8166	
	USE =	✓5815	✓ 8166	

8" CONCRETE MEDIAN STRIP
✓USE =112.4 SQ. YD

BASE & PAVEMENT QUANTITIES 9" PCCP

SHEET	STA. TO STA.	LOCATION	9" PCCP WIDENING (S.Y.)	A2 SHOULDER (S.Y.)	10" TYPE 5 BASE (S.Y.)	REMARKS
4	607+78.31 – 613+93.96	Rte. 60 Rt.	1785.6	273.6	2059.2	Widening Rt. of Existing Pvm't.
4	613+93.96 – 616+42.35	KODIAK ROAD INTERSECTION	1597.6	221.0	1818.6	
4	616+42.81 – 627+39.15	Rte. 60 Rt.	1093.7	1218.3	2312.0	Widening Rt. of Existing Pvm't.
4	616+49.88 – 620+67.60	Rte. 60 Lt.	433.7	255.4	689.1	Widening Lt. of Existing Pvm't.
		TOTALS =	4910.6	1968.3	6878.9	
		USE =	✓4910.6	✓1968.3	✓6878.9	

MOBILIZATION
✓LUMP SUM = 1

PAVEMENT EDGE TREATMENT

STA. TO STA.	LOCATION	LENGTH
603+91.00–611+44.00	Rte. 60 Rt.	753.0
616+50.00–620+67.00	Rte. 60 Lt.	417.0
619+86.00–627+39	Rte. 60 Rt.	753.0
✓USE =		1923 L.F.

DATE PREPARED 04/12/2012
ROUTE 60 | STATE MO
DISTRICT 7 | SHEET NO. 3
✓COUNTY NEWTON
✓JOB NO. J7P2177
✓CONTRACT ID. 120727–G02
✓PROJECT NO. FAF–60–1(39)
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1–888–ASK–MODOT (1–888–275–6636)

URS

QUANTITY SHEET
SHEET 1 OF 4

✓FINAL PLANS

REV.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

PAVEMENT MARKING REMOVAL

SHEET	STA. TO STA.	LOCATION	4" WIDE (FT)	6" WIDE (FT)	24" WIDE (FT)	REMARKS
4	603+91 – 627+41	RTE 60 RT		2350		EB EOP
4	603+91 – 607+80	RTE 60 RT	778			EB DOUBLE YELLOW CENTER LINE
4	603+91 – 607+78	RTE 60 RT			148	CROSS HATCHING
4	603+91 – 627+41	RTE 60 E	4700			EB DOUBLE YELLOW CENTERLINE
4	613+75 – 620+70	RTE 60 LT		695		WB EOP
4	610+95 – 614+09	RTE 60 LT		314		WB EOP
4	14+40 – 14+76	KODIAK LT		110		ISLAND FIELD MEASURED
4	14+40 – 14+76	KODIAK LT		36		NB THRU LANE
4	14+44 – 14+80	KODIAK RT		106		ISLAND FIELD MEASURED
4	14+48 – 14+75	KODIAK LT		27		SB LEFT TURN LANE
4	14+67 – 14+75	KODIAK RT		8		SB THRU LANE
4	14+75	KODIAK E			13	STOP BAR FIELD MEASURED
		TOTALS =	5478	3646	161	
		USE =	5478	3646	161	
		TOTAL =		✓9285		

MODIFIED COLDMILLING

✓Field Measured 175.5'X20'/9= 390 S.Y.

SHOULDER RUMBLE STRIPS

✓TOTAL = 0 STA

CONTRACTOR FURNISHED SURVEYING AND STAKING

✓LUMP SUM = 1

SEEDING – COOL SEASON MIXTURE

✓*TOTAL = 2.6 ACRES

*FIELD MEASUREMENTS
180'X20'+40'X920'+35'X30'+30'X410'+30'X1230+460'X40'+70'X70'=113950
SY FT/43560 SY FT/ACRE=2.6 ACRES

EROSION CONTROL

STA.	LOCATION	SILT FENCE (FT.)	TYPE 2 DITCH CHECK (EA.)	SEDIMENT REMOVAL (C.Y.)	SEDIMENT REMOVAL FIELD MEASUREMENTS
603+20	RTE 60 RT		1	2	5.4'X10'X1'/27=2.0
603+60	RTE 60 RT		1	2	5.4'X10'X1'/27=2.0
603+87	RTE 60 RT		1	3.6	8'X12'X1'/27=3.6
604+50	RTE 60 RT		1	0.9	5'X10'X0.5'/27=0.9
607+00	RTE 60 RT		1	0.9	5'X10'X0.5'/27=0.9
608+50	RTE 60 RT		1	2.6	7'X10'X1'/27=2.6
609+50	RTE 60 RT		1	2.2	6'X10'X1'/27=2.2
617+00	RTE 60 RT		1	0	
620+60	RTE 60 LT		1	0	
624+00	RTE 60 RT		1	0	
625+50	RTE 60 RT		1	0	
625+75	RTE 60 RT		1	0	
626+00	RTE 60 RT		1	0	
14+00	KODIAK RD LT		1	0	
14+50	KODIAK RD LT		1	0	
15+75	KODIAK RD LT		1	0.7	6'X6'X0.5'/27=0.7
15+90	KODIAK RD LT		1	1.4	6'X6.5'X1'/27=1.4
17+18	KODIAK RD LT		1	0	
17+38	KODIAK RD LT		1	0	
18+75	KODIAK RD RT		1	0	
20+39	KODIAK RD RT		1	0	
20+57	KODIAK RD RT		1	0	
	TOTAL =	0	22	16.3	
	USE =	✓0	✓22	✓16	

LIGHTING – POLES, FOUNDATIONS & APPURTENANCE FOR 30' MOUNTING HEIGHT

	30' M.H. TYPE A.T. LIGHT POLE (EACH)	BRACKET ARM 15' (EACH)	150 WATT TYPE III M-S LUMINAIRE (EACH)	CABLE #10 AWG 1 COND. POLE & BRACKET (FT.)	CABLE #8 AWG 1 COND. POWER (FT.)	POLE FOUNDATION (EACH)
USE	✓2	✓2	✓2	✓180.0	✓1140	✓2

MISC COST (CONT. ITEM 5001)

✓1 LS

VALUE ENGINEERING (CONT. ITEM 5004)

✓1 LS

MISC IN PARTNERSHIP WITH NEOSHO TDD SIGNS (CONT. ITEM 5005)

✓TOTAL = 2 EACH

DATE PREPARED
04/12/2012

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
7	3

✓COUNTY
NEWTON

✓JOB NO.
J7P2177

✓CONTRACT ID.
120727-G02

PROJECT NO.
✓FAF-60-1(39)

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

URS

QUANTITY SHEET

SHEET 2 OF 4

✓FINAL PLANS

REV.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

PAVEMENT MARKING											
			Acrylic Waterborne Pavement Marking Paint			Type 2 Preformed Marking Tape (Grooved)					
SHEET	STA. TO STA.	LOCATION	6" INT. WHITE (FT)/4	6" SOLID WHITE (FT)	4" SOLID YELLOW (FT)	24" SOLID YELLOW (FT)	24" SOLID WHITE (FT)	LEFT TURN ARROW (EA)	RIGHT TURN ARROW (EA)	8' "ONLY" (EA)	REMARKS
33	602+65.00 – 609+00.00	RTE 60 RT		635							EOP RTE 60
33	602+67.00 – 613+75.00	RTE 60 LT		1108							EOP RTE 60
33	603+38.00 – 609+00.00	RTE 60 RT			1124						DOUBLE YELLOW
33	603+38.00 – 609+00.00	RTE 60 LT			1124						DOUBLE YELLOW
33	602+67.24 – 609+00.00	RTE 60				272					DIAGONALS @ 50' SPACING FIELD MEASURED
33	603+64.00 – 609+00.00	RTE 60 RT	134								EAST BOUND CENTER LINE
34	609+00.00 – 20+21.54	RTE 60 RT		1035							EOP RTE 60 – EOP KODIAK ROAD FIELD MEASURED
34	609+00.00 – 614+54.00	RTE 60			1108						DOUBLE YELLOW
34	609+00.00 – 613+03.00	RTE 60 RT			806						DOUBLE YELLOW
34	609+00.00 – 613+00.00	RTE 60 E				61					DIAGONALS @ 50' SPACING FIELD MEASURED
34	609+00.00 – 610+88.00	RTE 60 RT	47								EAST BOUND CENTER LINE
34	610+81.00	RTE 60 RT								1	RIGHT TURN LANE
34	610+91.00	RTE 60 RT							1		RIGHT TURN LANE
34	610+86.00 – 614+77.00	RTE 60 RT		391							EAST BOUND CENTER LINE
34	612+35.00	RTE 60 RT								1	RIGHT TURN LANE
34	612+45.00	RTE 60 RT							1		RIGHT TURN LANE
34	613+02.00 – 614+77.00	RTE 60 RT		175							LEFT TURN LANE
34	613+60.00	RTE 60 RT								1	RIGHT TURN LANE
34	613+70.00	RTE 60 RT							1		RIGHT TURN LANE
34	613+70.00	RTE 60 RT						1			LEFT TURN LANE
34	613+75.00 – 13+83.41	RTE 60 LT		191							EOP RTE 60 – EOP KODIAK ROAD FIELD MEASURED
34	614+54.00	RTE 60 RT					13				STOP BAR
34	614+56.60 – 614+98.20	RTE 60 RT		147							AROUND KODIAK ISLAND (SOUTH) FIELD MEASURED
34	614+75.00 – 615+07.20	RTE 60 LT		120							AROUND KODIAK ISLAND (NORTH) FIELD MEASURED
34	614+77.00	RTE 60 RT					13				STOP BAR
34	615+30.00 – 615+64.00	RTE 60 RT		130							AROUND KODIAK ISLAND (SOUTH) FIELD MEASURED
34	615+39.00 – 615+81.53	RTE 60 LT		160							AROUND KODIAK ISLAND (NORTH) FIELD MEASURED
34	20+21.54 – 623+00.00	KODIAK LT		1223							EOP KODIAK ROAD – EOP RTE 60 FIELD MEASURED
34	615+62.00	RTE 60 LT					13				STOP BAR
34	615+62.00 – 616+83.00	RTE 60 LT		121							RIGHT TURN LANE
34	615+62.00 – 616+83.00	RTE 60 E		121							LEFT TURN LANE
34	615+82	RTE 60 RT					13				STOP BAR
34	615+83.50 – 623+00.00	RTE 60 RT			1433						DOUBLE YELLOW
34	616+32.00 – 620+67.00	RTE 60 LT		435							EOP RTE 60
34	616+58.00	RTE 60 LT							1		RIGHT TURN LANE
34	616+58.00	RTE 60 RT						1			LEFT TURN LANE
34	616+75.00 – 623+00.00	RTE 60 RT, RTE 60			1250						DOUBLE YELLOW
34	617+31.40 – 623+00.00	RTE 60 RT				146					DIAGONALS @ 50' SPACING FIELD MEASURED
34	617+83.00	RTE 60 LT							1		RIGHT TURN LANE
34	13+65.00	KODIAK						1			LEFT TURN LANE
34	14+49.00	KODIAK					11				STOP BAR
34	14+69.00	KODIAK RT					11				STOP BAR
34	13+19–14+69	KODIAK RT		150							TURN/LEFT TURN LANE
34	15+36.00	KODIAK LT					11				STOP BAR
34	15+36.00 – 16+57.00	KODIAK LT		121							LEFT TURN LANE
34	15+56.00	KODIAK					13				STOP BAR
34	15+56.00 – 20+21.54	KODIAK RT			930						DOUBLE YELLOW
34	16+33.00	KODIAK						1			LEFT TURN LANE
34	16+56.54 – 20+21.00	KODIAK RT, KODIAK LT			730						DOUBLE YELLOW
34	16+79.50 – 20+21.54	KODIAK RT, KODIAK LT				63					DIAGONALS @ 50' SPACING FIELD MEASURED
35	623+00.00 – 632+09.00	RTE 60 RT		909							EOP RTE 60
35	623+00.00 – 627+35.00	RTE 60 RT			870						DOUBLE YELLOW
35	623+00.00 – 627+35.00	RTE 60			870						DOUBLE YELLOW
35	620+67–632+10	RTE 60 LT		1143							EOB RTE 60
35	623+00.00 – 627+39.15	RTE 60 RT				44					DIAGONALS @ 50' SPACING FIELD MEASURED
		TOTAL =	181	8315	10,245	586	98	4	5	3	
		USE =	✓ 8496		✓ 10,245	✓ 586	✓ 98	✓ 9		✓ 3	

DATE PREPARED
04/12/2012

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
7	3

COUNTY
✓ NEWTON

JOB NO.
✓ J7P2177

CONTRACT ID.
✓ 120727–G02

PROJECT NO.
✓ FAF–60–1(39)

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1–888–ASK–MODOT (1–888–275–6636)

MoDOT

URS

QUANTITY SHEET

SHEET 3 OF 4

✓ FINAL PLANS

REV.

T:\J7P2177\PLAN_SHEETS\FINAL\003_QU_03_J7P2177_I1.dgn 4:55:03 PM 4/7/2009

EFFECTIVE: 05-01-2012

SIGN	SIZE (IN.)	AREA (SQ. FT.)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION
WARNING SIGNS							
W01-1L	48X48	16.00					TURN (SYMBOL LEFT ARROW)
W01-1R	48X48	16.00					TURN (SYMBOL RIGHT ARROW)
W01-2L	48X48	16.00					CURVE (SYMBOL LEFT ARROW)
W01-2R	48X48	16.00					CURVE (SYMBOL RIGHT ARROW)
W01-3L	48X48	16.00					REVERSE TURN (SYMBOL LEFT ARROW)
W01-3R	48X48	16.00					REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4L	48X48	16.00	2	32.0			REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4R	48X48	16.00	2	32.0			REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4bL	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
W01-4bR	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
W01-4cL	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
W01-4cR	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
W01-6	60X30	12.50					HORIZONTAL ARROW (SYMBOL)
W01-6a	72X36	18.00					HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE)
W01-7	60X30	12.50					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	72X36	18.00					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE)
W01-8	18X24	3.00					CHEVRON (SYMBOL)
W01-8a	30X36	7.50					CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
W03-1	48X48	16.00					STOP AHEAD (SYMBOL)
W03-2	48X48	16.00					YIELD AHEAD (SYMBOL)
W03-3	48X48	16.00					SIGNAL AHEAD (SYMBOL)
W03-4	48X48	16.00					BE PREPARED TO STOP
W03-5	48X48	16.00	2	32.0			SPEED LIMIT AHEAD
W04-1L	48X48	16.00					MERGE (SYMBOL FROM LEFT)
W04-1R	48X48	16.00					MERGE (SYMBOL FROM RIGHT)
W05-1	48X48	16.00					ROAD/BRIDGE/RAMP NARROWS
W05-3	48X48	16.00					ONE LANE BRIDGE
W05-5	48X48	16.00					NARROW LANES
W06-1	48X48	16.00					DIVIDED HIGHWAY (SYMBOL)
W06-2	48X48	16.00					DIVIDED HIGHWAY END (SYMBOL)
W06-3	48X48	16.00					TWO WAY TRAFFIC (SYMBOL)
W07-3a	30X24	5.00					NEXT XX MILES (PLAQUE)
W08-1	48X48	16.00					BUMP
W08-2	48X48	16.00					DIP
W08-3	48X48	16.00					PAVEMENT ENDS
W08-4	48X48	16.00					SOFT SHOULDER
W08-5	48X48	16.00					SLIPPERY WHEN WET (SYMBOL)
W08-6	48X48	16.00					TRUCK CROSSING WITH FLAGS
W08-6c	48X48	16.00					TRUCK ENTRANCE
W08-7	36X36	9.00					LOOSE GRAVEL
W08-9	48X48	16.00					LOW SHOULDER
W08-11	48X48	16.00					UNEVEN LANES
W08-12	48X48	16.00					NO CENTER LINE
W10-1	42 RND.	9.62					RAILROAD CROSSING
W012-1	24X24	4.00					DOUBLE DOWN ARROW (SYMBOL)
W012-2	48X48	16.00					LOW CLEARANCE (SYMBOL)
W012-2x	24X18	3.00					LOW CLEARANCE (PLAQUE)
W012-2a	84X24	14.00					OVERHEAD LOW CLEARANCE (FEET AND INCHES)
W08-15	48X48	16.00					GROOVED PAVEMENT
W08-15p	30X24	5.00					MOTORCYCLE (PLAQUE)
W08-17	48X48	16.00					SHOULDER DROP-OFF (SYMBOL)
W08-17p	30X24	5.00					SHOULDER DROP-OFF (PLAQUE)
SPECIAL	120X60	50.00					LOW CLEARANCE XX FT XX IN XX MILES AHEAD
SPECIAL	120X60	50.00					WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
W013-1	30X30	6.25					ADVISORY SPEED (PLAQUE)
W016-2	30X24	5.00					XXX FEET (PLAQUE)
W016-3	30X24	5.00					X MILE (PLAQUE)
W020-1	48X48	16.00	7	112.0			ROAD/BRIDGE/RAMP WORK AHEAD
W020-2	48X48	16.00					DETOUR AHEAD
W020-3	48X48	16.00	2	32.0			ROAD CLOSED AHEAD
W020-4	48X48	16.00					ONE LANE ROAD AHEAD
W020-5	48X48	16.00					RIGHT/CENTER/LEFT LANE CLOSED AHEAD
W020-5a	48X48	16.00					2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
W020-6a	48X48	16.00					RIGHT/CENTER/LEFT LANE CLOSED
W020-7a	48X48	16.00					FLAGGER (SYMBOL) WITH FLAGS
W021-2	36X36	9.00					FRESH OIL
W021-5b	48X48	16.00					SHOULDER WORK AHEAD
W022-1	48X48	16.00					BLASTING ZONE AHEAD
W022-2	42X36	10.50					TURN OFF 2-WAY RADIO AND PHONE
W022-3	42X36	10.50					END BLASTING ZONE
W022-6e	21X15	2.19					WET PAINT (ARROW PIVOTS)
GUIDE SIGNS							
SPECIAL	36X36	9.00					FRESH OIL/LOOSE GRAVEL
E05-1	36X48	12.00					GORE EXIT
E05-2	48X36	12.00					EXIT OPEN
E05-2a	48X36	12.00					EXIT CLOSED
G020-1	60X24	10.00					ROAD WORK NEXT XX MILES
G020-2	48X24	8.00	6	48.0			END ROAD WORK
G020-4	36X18	4.50					PILOT CAR FOLLOW ME
SPECIAL	42X30	8.75					PLEASE WAIT FOR PILOT CAR
G020-5aP	36X12	6.00	2	6.0			WORK ZONE (PLAQUE)
M04-8a	24X18	3.00					END DETOUR
M04-9L	48X36	12.00					DETOUR (LEFT ARROW)
M04-9R	48X36	12.00					DETOUR (RIGHT ARROW)
M04-10L	48X18	6.00					DETOUR (ARROW LEFT)
M04-10R	48X18	6.00					DETOUR (ARROW RIGHT)
REGULATORY SIGNS							
R1-1	48X48	13.25	2	26.5			STOP
R1-2	48 TRI.	6.93					YIELD
R1-2a	36X36	9.00					TO ONCOMING TRAFFIC (PLAQUE)
R1-3	20X9	1.25					X-WAY (PLAQUE)
R2-1	36X48	12.00	2	24.0			SPEED LIMIT XX
R3-1	48X48	16.00					NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00					NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00					NO TURNS
R3-4	48X48	16.00					NO U-TURN (SYMBOL)
R3-7L	30X30	6.25					LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25					RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00					DO NOT PASS
R4-2	36X48	12.00					PASS WITH CARE
R4-7aL	36X48	12.00					KEEP LEFT (HORIZONTAL ARROW)
R4-7a	36X48	12.00					KEEP RIGHT (HORIZONTAL ARROW)
R5-1	30X30	6.25					DO NOT ENTER
R5-1a	36X24	6.00					WRONG WAY
R6-1L	48X18	6.00					ONE WAY ARROW (LEFT)
R6-1R	48X18	6.00					ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00					ONE WAY (LEFT)
R6-2R	24X30	5.00					ONE WAY (RIGHT)
R10-6	24X36	6.00					STOP HERE ON RED (45 °ARROW)
R11-2	48X30	10.00	2	20.0			ROAD CLOSED
R11-3a	60X30	12.50					ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50	1	12.5			ROAD CLOSED TO THRU TRAFFIC
S4-4	36X15	3.75					WHEN FLASHING
CONST-3A	60X48	20.00					FINE SIGN
CONST-3X	56X12	4.67					SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS							
SPECIAL	36X48	12.00					POINT OF PRESENCE
SPECIAL	96X48	32.00	2	64.00			POINT OF PRESENCE
CONST-7-72	72X36	18.00	4	72.0			RATE OUR WORK ZONE
SPECIAL	60X48	3.33					COMPLETED AS PROMISED

616-10.05 CONSTRUCTION SIGNS TOTAL	✓513	
616-10.10 RELOCATED SIGNS TOTAL		✓0

ITEM NUMBER	TOTAL QTY	DESCRIPTION
612-20.08		IMPACT ATTENUATOR (8 SAND BARRELS)
612-20.09		IMPACT ATTENUATOR (9 SAND BARRELS)
612-20.10		IMPACT ATTENUATOR (10 SAND BARRELS)
612-20.12		IMPACT ATTENUATOR (12 SAND BARRELS)
612-20.14		IMPACT ATTENUATOR (14 SAND BARRELS)
612-20.17		IMPACT ATTENUATOR (17 SAND BARRELS)
612-20.19		IMPACT ATTENUATOR (19 SAND BARRELS)
612-20.20		REPLACEMENT SAND BARREL
612-20.30		IMPACT ATTENUATOR ARRAY (RELOCATION)
612-30.00A		TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)
616-10.07		SPEED LIMIT AND STROBE LIGHT ASSEMBLY
616-10.08	✓2	ADVANCED WARNING RAIL SYSTEM
616-10.09		FLAG ASSEMBLY
616-10.20		CHANNELIZER (DRUM-LIKE)
616-10.22		CHANNELIZER (CONES)
616-10.24		CHANNELIZER (TRIM LINE) WITH LIGHT
616-10.25	✓85	CHANNELIZER (TRIM LINE)
616-10.26		CHANNELIZER (VERTICAL PANEL)
616-10.27		CHANNELIZER (VERTICAL PANEL) WITH LIGHT
616-10.28		CHANNELIZER
616-10.30		TYPE III MOVEABLE BARRICADE
616-10.31	✓6	TYPE III MOVEABLE BARRICADE WITH LIGHT
616-10.33		DIRECTION INDICATOR BARRICADE
616-10.34		DIRECTION INDICATOR BARRICADE, WITH LIGHT
616-10.40		FLASHING ARROW PANEL
616-10.47		TYPE III OBJECT MARKER
616-10.51		WARNING LIGHT, TYPE A
616-10.52		WARNING LIGHT, TYPE B
616-10.53		WARNING LIGHT, TYPE C
616-10.70		TUBULAR MARKER
616-10.95		RADAR SPEED ADVISORY SYSTEM
616-10.96		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
616-10.98	✓4	CHANGEABLE MESSAGE SIGN, CONTRACTOR FURNISHED/RETAINED
616-11.00		CHANGEABLE MESSAGE SIGN, CONTRACTOR FURNISHED/COMMISSION RETAINED
617-36.00D		CONTRACTOR FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER
617-36.02B		CONTRACTOR FURNISHED/COMMISSION RETAINED TEMPORARY TRAFFIC BARRIER
617-40.00A		TEMPORARY TRAFFIC BARRIER HEIGHT TRANSITION
617-50.10A		RELOCATING TEMPORARY TRAFFIC BARRIER
617-60.00B		COMMISSION FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER
617-70.00B		COMMISSION FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER HEIGHT TRANSITION
901-94.00		TEMPORARY LIGHTING
902-94.00		TEMPORARY TRAFFIC SIGNALS
902-94.01		TEMPORARY TRAFFIC SIGNALS AND LIGHTING
616-10.09	✓13	FLAG ASSEMBLY (CONT. ITEM 5003)

DATE PREPARED
04/12/2012

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
7	3

COUNTY
✓NEWTON

JOB NO.
✓J7P2177

CONTRACT ID.
✓120727-G02

PROJECT NO.
✓FAF-60-1(39)

BRIDGE NO.

DESCRIPTION

DATE

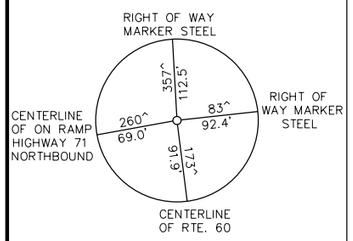
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
MoDOT
URS

QUANTITY SHEET
SHEET 4 OF 4

✓FINAL PLANS

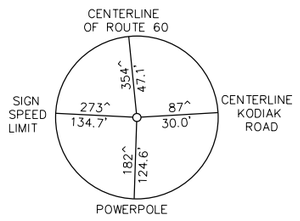
REV.

CP3



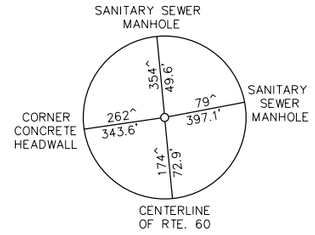
STA. 603+07.29 – 98.68' LT.
NEĀ SEĀ SEC. 34 T25N R32W
IRON PIN CAPPED "MAI–CP"
NORTH OF RTE. 60
ELEV. = 1188.2300

CP4



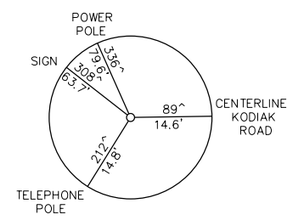
STA. 614+90.54 – 46.99' RT.
NEĀ SEĀ SEC. 34 T25N R32W
IRON PIN CAPPED "MAI–CP"
SOUTH OF RTE. 60
ELEV. = 1203.9240

CP2



STA. 638+13.04 – 72.88' LT.
NEĀ SWĀ SEC. 35 T25N R32W
IRON PIN CAPPED "MAI–CP"
NORTH OF RTE. 60
ELEV. = 1203.0500

CP7933



STA. 616+20.87 – 1174.63' LT.
NEĀ SEĀ SEC. 34 T25N R32W
100D NAIL
NORTH OF RTE. 60
ELEV. = 1202.0300

DATE PREPARED
04/12/2012

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
7	8

COUNTY
✓NEWTON

JOB NO.
✓J7P2177

CONTRACT ID.
✓120727–G02

PROJECT NO.
✓FAF–60–1(39)

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1–888–ASK–MODOT (1–888–275–6636)

URS

REFERENCE POINTS

✓FINAL PLANS

REV.

Coordinate Point Listing
Missouri Coordinate System of 1983

Reciprocal Average Grid Factor: 1.0001111

SHEET NO.	STATIONÀ	LOCATION	OFFSETÀ	NORTHING	EASTING	DESCRIPTION	DESIGN PT. ID
	603+07.29	ROUTE 60	98.68' LT.	245333.1840	2813837.5286	CP3	
	603+90.98	ROUTE 60	0	245240.9239	2813928.2496	POT BEGIN PROJECT	
	604+00.59	ROUTE 60	0	245241.6300	2813937.8269	PC	
	604+95.00	ROUTE 60	0	245248.5708	2814031.9816	PI	
	605+89.25	ROUTE 60	0	245264.9407	2814124.9618	PRC	
	606+83.76	ROUTE 60	0	245281.3456	2814218.1415	PI	
	607+78.31	ROUTE 60	0	245288.3013	2814312.4981	PT	
	614+90.54	ROUTE 60	46.99' RT.	245293.8001	2815026.2529	CP4	
	615+19.42	ROUTE 60	0	245342.7860	2815051.5982	INTERSECTION ROUTE 60 / KODIAK ROAD	
	616+20.87	ROUTE 60	1174.63' LT.	246521.6958	2815066.4192	CP7933	
	627+39.15	ROUTE 60	0	245432.4579	2816268.0254	POT END PROJECT	
	638+13.04	ROUTE 60	72.88' LT.	245584.0913	2817333.6554	CP2	
	6+64.98	KODIAK ROAD	0	246177.5045	2815074.1930	POT	
	15+00.00	KODIAK ROAD	0	245342.7860	2815051.5982	PI INTERSECTION KODIAK ROAD / ROUTE 60	
	20+21.54	KODIAK ROAD	0	244821.3891	2815039.4168	POT END PROJECT	

1 Ground Distance

Note : The reciprocal of the average grid factor is used as a multiplier from state plan distance to ground distance.

DATE PREPARED 04/12/2012
ROUTE 60 | STATE MO
DISTRICT 7 | SHEET NO. 9
COUNTY NEWTON
JOB NO. J7P2177
CONTRACT ID. 120727-G02
PROJECT NO. FAF-60-1(39)
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
URS

COORDINATE POINTS

FINAL PLANS

REV.

UNDERGROUND FACILITIES, STRUCTURES AND UTILITIES HAVE BEEN PLOTTED FROM AVAILABLE SURVEY AND RECORDS. THE COMMISSION DOES NOT WARRANT THE LOCATIONS OF THESE FACILITIES AS PRECISE. IT IS POSSIBLE THERE MAY BE OTHERS, THE EXISTENCE OF WHICH IS PRESENTLY NOT KNOWN OR SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND PRECISE LOCATION OF ALL FACILITIES AND TO AVOID DAMAGE. SEE THE JOB SPECIAL PROVISIONS FOR A LIST OF UTILITY COMPANIES ON OR WITHIN THE VICINITY OF THE PROJECT LIMITS.

ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

NWĀ SWĀ
35-25-32

③
LEE W. IRELAND &
RAYMA L. IRELAND

NEĀ SEĀ
34-25-32

⑯
SHANE SMITH

⑰
DERALD BOWMAN ET AL

⑱
CHURCH OF CHRIST

⑤
NEOSHO
DEVELOPERS, LLC

④
EARL G. WYLIE &
HELEN A. WYLIE

ROUTE 71 ON RAMP

1/4 SECTION LINE

KODIAK ROAD

PC STA 604+00.59

PRC STA 605+89.25

PT STA 607+78.31

605

610

615

620

625

+17.9

+24.3

+95.9

EXIST. R/W

SLOPE LIMITS

ROUTE 60

N85^ 47' 02"E

STA. 615+19.42 ROUTE 60
STA. 15+00.00 KODIAK ROAD

BEGIN PROJECT
STA. 603+90.98

ROUTE 71 OFF RAMP

END PROJECT
STA. 627+39.15

CURVE EXRT60_1	
PI	= 604+95.00
PC	= 604+00.59
PT	= 605+89.25
Ö	= 5^ 46' 08.2"
D	= 3^ 03' 28.2"
L	= 188.66'
T	= 94.41'
R	= 1873.74'
SE	= 0.04

CURVE EXRT60_2	
PI	= 606+83.86
PC	= 605+89.25
PT	= 607+78.31
Ö	= 5^ 46' 08.2"
D	= 3^ 03' 04.6"
L	= 189.07'
T	= 94.61'
R	= 1877.76'
SE	= 0.04

SEĀ SEĀ
34-25-32

END PROJECT
STA. 20+21.54

STA. 19+00.
TYPE I DRWY. RT.
40' WIDE
AGGR. SURFACE 9.1% GRADE
18" X 50' GROUP C PIPE
W/2 - 18" F.E.S.

STA. 16+26.05
TYPE I DRWY. LT.
50' WIDE
AGGR. SURFACE 7.5% GRADE
18" X 63' CLASS III PIPE
W/2 - 18" F.E.S.

⑦
FRANK MARK ADAMS &
MARY JEAN ADAMS

⑧
KENNETH G. LINK &
PAMELA J. LINK

SWĀ SWĀ
35-25-32

+04.5

+33.1

+22.4

S01^ 20' 18"W

SCALE
0 100 200 300 400 500

ALL BEARINGS BASED ON STATE PLANE BEARINGS. WESTERN ZONE.

SEE REFERENCE POINTS SHEET 8

DATE PREPARED
04/12/2012

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
7	4

COUNTY
✓ NEWTON

JOB NO.
✓ J7P2177

CONTRACT ID.
✓ 120727-G02

PROJECT NO.
✓ FAF-60-1(39)

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
MoDOT
URS

ROUTE 60 PLAN
STA. 601+00 TO STA. 629+00

✓ FINAL PLANS

REV.

UTILITIES

AT&T (LOCAL NETWORK)
321 WEST 8TH STREET
JOPLIN, MO 64801
417-625-8024

CITY OF NEOSHO
1011 WEST HILL STREET
NEOSHO, MO 64850
417-451-8081

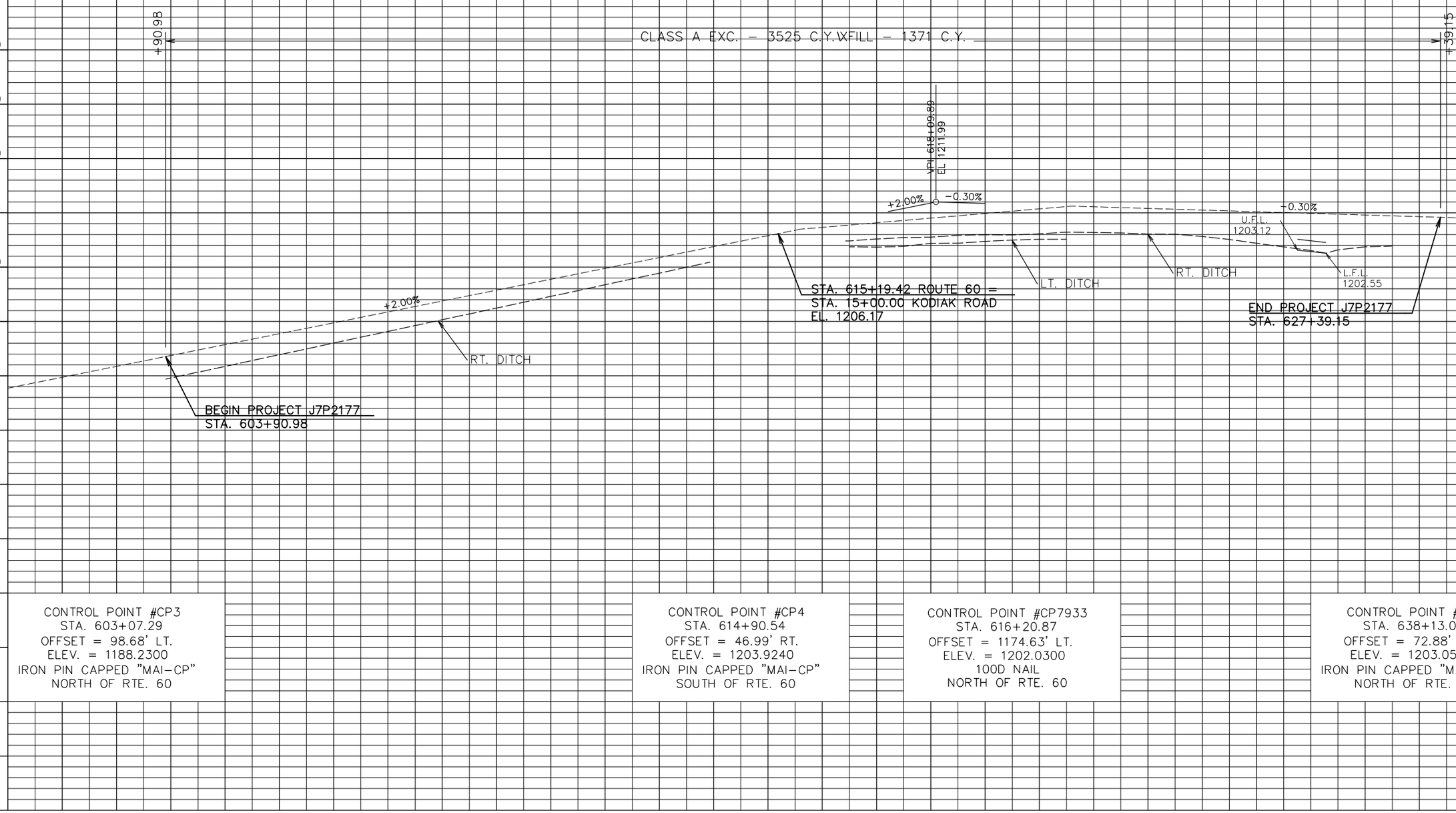
SUDDENLINK
1426 WEST ASHLEY ROAD
BOONVILLE, MO 65233
417-451-2564

NEW-MAC ELECTRIC
COOPERATIVE, INC.
P.O. BOX 310
NEOSHO, MO 64850
417-438-8289

EMPIRE DISTRICT ELECTRIC CO.
P.O. BOX 127
JOPLIN, MO 64802
417-625-4218

MISSOURI GAS ENERGY
520 EAST 5TH STREET
JOPLIN, MO 64801
417-626-4815

AT&T DISTRIBUTION
1425 OAK, ROOM 618
KANSAS CITY, MO 64105
816-391-4956



CONTROL POINT #CP3
STA. 603+07.29
OFFSET = 98.68' LT.
ELEV. = 1188.2300
IRON PIN CAPPED "MAI-CP"
NORTH OF RTE. 60

CONTROL POINT #CP4
STA. 614+90.54
OFFSET = 46.99' RT.
ELEV. = 1203.9240
IRON PIN CAPPED "MAI-CP"
SOUTH OF RTE. 60

CONTROL POINT #CP7933
STA. 616+20.87
OFFSET = 1174.63' LT.
ELEV. = 1202.0300
100D NAIL
NORTH OF RTE. 60

CONTROL POINT #CP2
STA. 638+13.04
OFFSET = 72.88' LT.
ELEV. = 1203.0500
IRON PIN CAPPED "MAI-CP"
NORTH OF RTE. 60

DATE PREPARED
04/12/2012
ROUTE 60
STATE MO
DISTRICT 7
SHEET NO. 5
COUNTY NEWTON
JOB NO. J7P2177
CONTRACT ID. 120727-G02
PROJECT NO. FAF-60-1(39)
BRIDGE NO.

DESCRIPTION
DATE
REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

URS

ROUTE 60 PROFILE
STA. 601+00 TO STA. 629+00

FINAL PLANS

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CLASS A EXC. – 224 C.Y. FILL – 83 C.Y.

+44.52

+21.54

-0.35%

-0.35%

-1.59%

RT. DITCH

STA. 615+19.42 ROUTE 60 =
STA. 15+00.00 KODIAK ROAD
EL. 1206.17

VPI 16+14.85
EL 1204.48

END PROJECT J7P2177
STA. 20+21.54

1280 1270 1260 1250 1240 1230 1220 1210 1200 1190 1180 1170 1160 1150 1140 1130 1120 1110 1100

5 10 15 20 25

DATE PREPARED
04/12/2012

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
7	6

COUNTY
✓ NEWTON

JOB NO.
✓ J7P2177

CONTRACT ID.
✓ 120727-G02

PROJECT NO.
✓ FAF-60-1(39)

BRIDGE NO.

DESCRIPTION

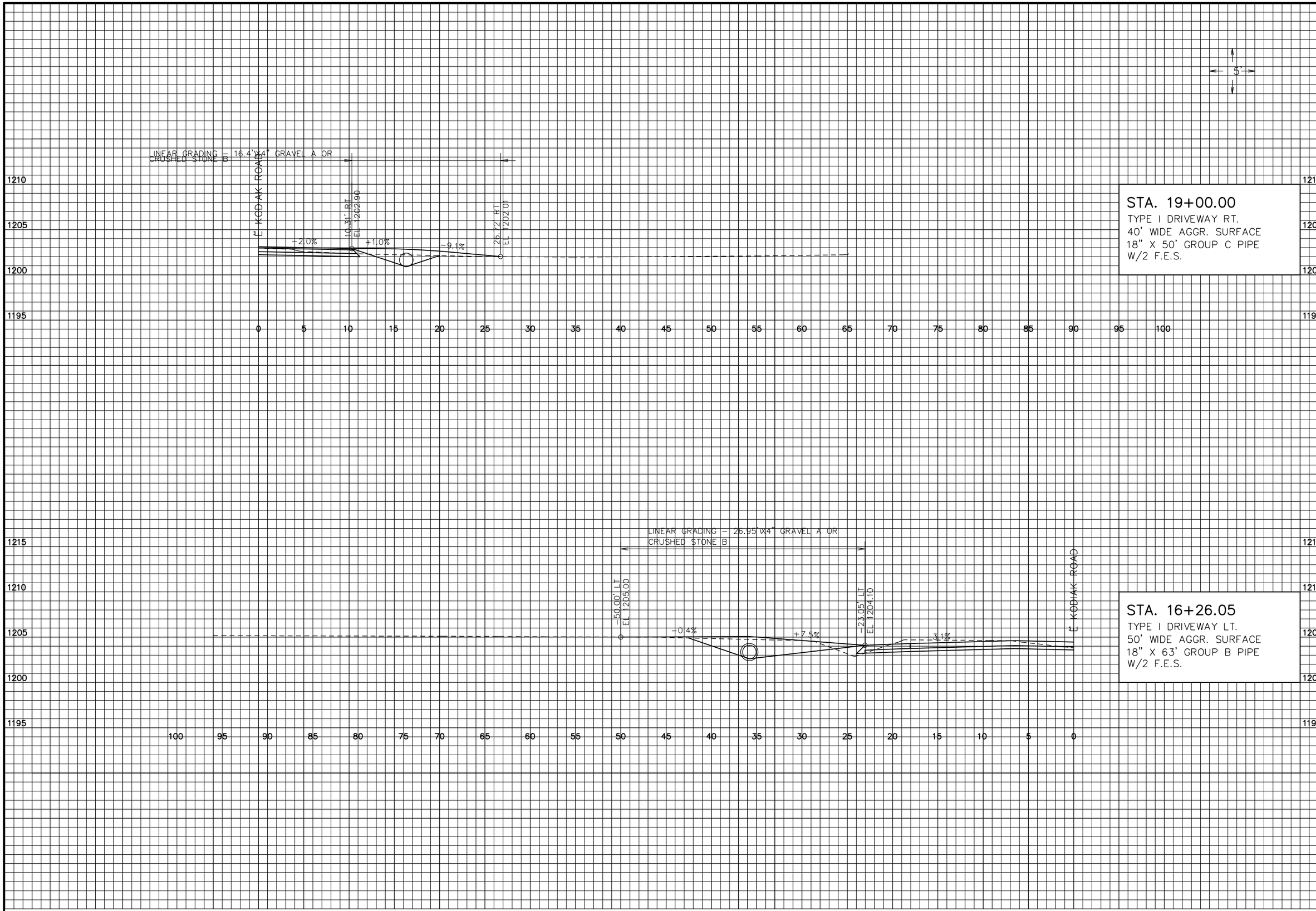
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
MoDOT
URS

KODIAK ROAD PROFILE

✓ FINAL PLANS

REV.



DATE PREPARED
04/12/2012

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
7	7

COUNTY
✓ NEWTON

JOB NO.
✓ J7P2177

CONTRACT ID.
✓ 120727-G02

PROJECT NO.
✓ FAF-60-1(39)

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

URS

DRIVEWAY PROFILES
SHEET 1 OF 1

✓ FINAL PLANS

REV.

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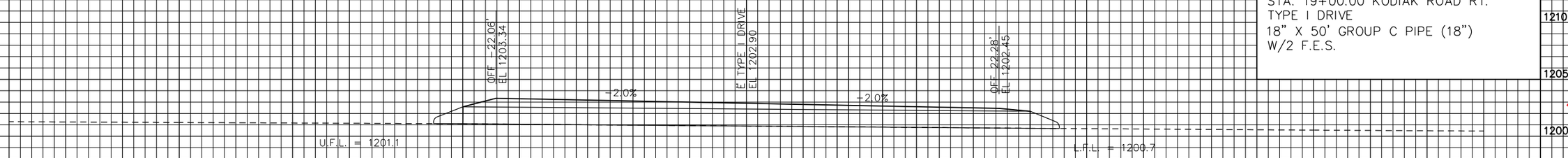
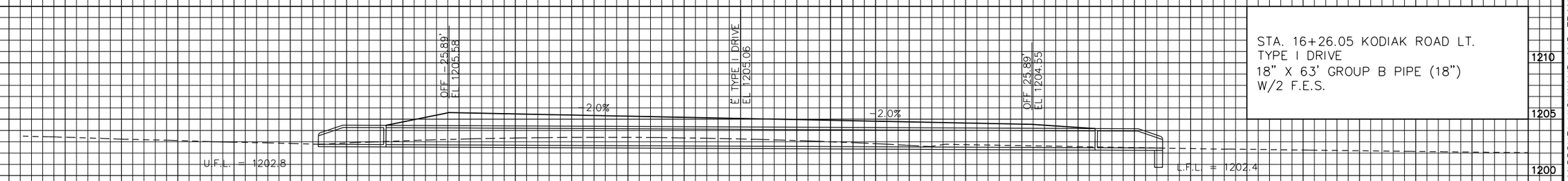




STA. 19+00.00 KODIAK ROAD RT.
TYPE I DRIVE
18" X 50' GROUP C PIPE (18")
W/2 F.E.S.



STA. 16+26.05 KODIAK ROAD LT.
TYPE I DRIVE
18" X 63' GROUP B PIPE (18")
W/2 F.E.S.

DATE PREPARED
04/12/2012

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
7	37

COUNTY
✓ NEWTON

JOB NO.
✓ J7P2177

CONTRACT ID.
✓ 120727-G02

PROJECT NO.
✓ FAF-60-1(39)

BRIDGE NO.

DESCRIPTION

DATE

REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

URS

CULVERT SECTIONS
SHEET 1 OF 1

✓ FINAL PLANS

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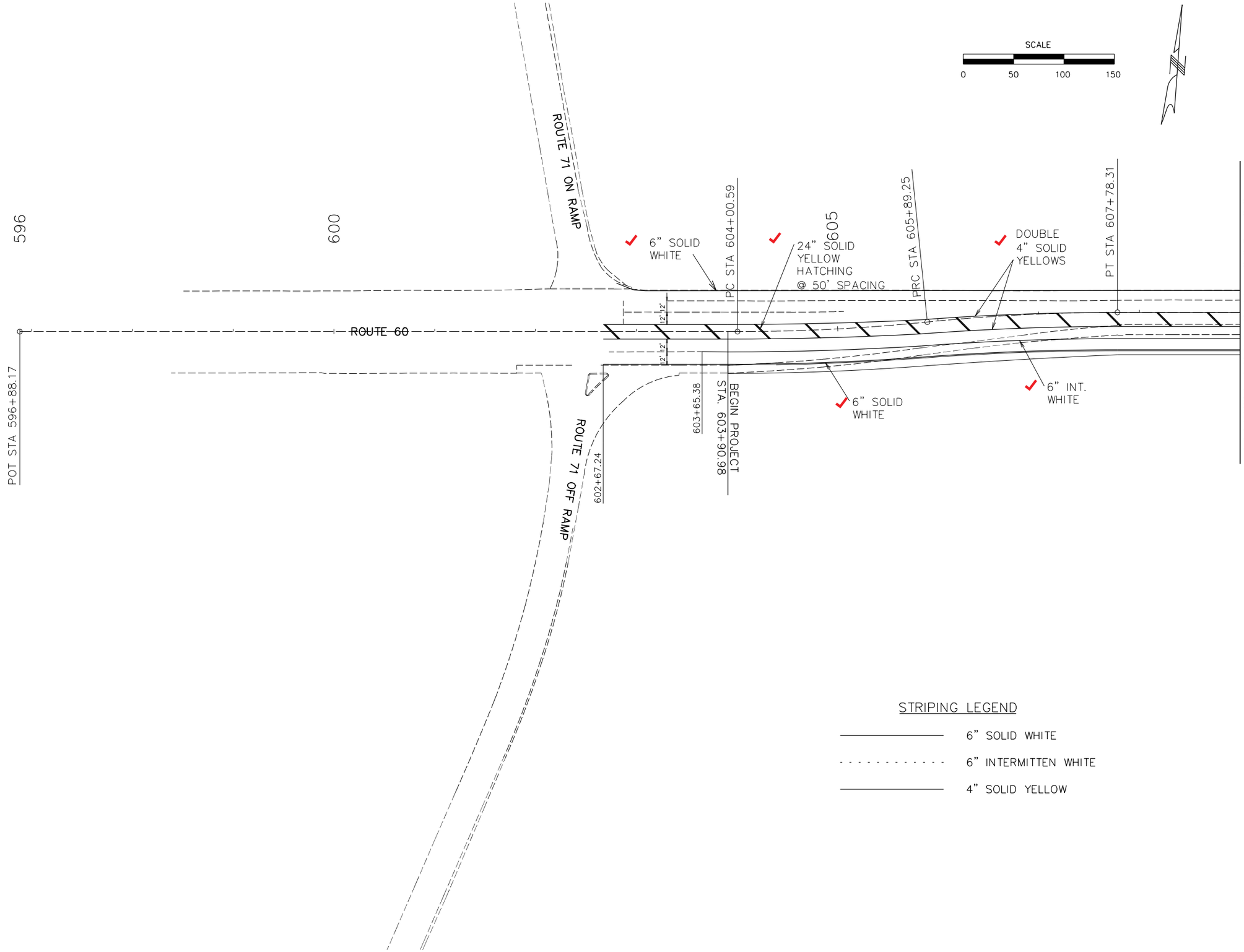

STRIPING LEGEND

- 6" SOLID WHITE
- 6" INTERMITTEN WHITE
- 4" SOLID YELLOW

DATE PREPARED
04/12/2012

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
7	34

COUNTY
NEWTON

JOB NO.
J7P2177

CONTRACT ID.
120727-G02

PROJECT NO.
FAF-60-1(39)

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

URS

PAVEMENT MARKING
SHEET 1 OF 3

FINAL PLANS

REV.

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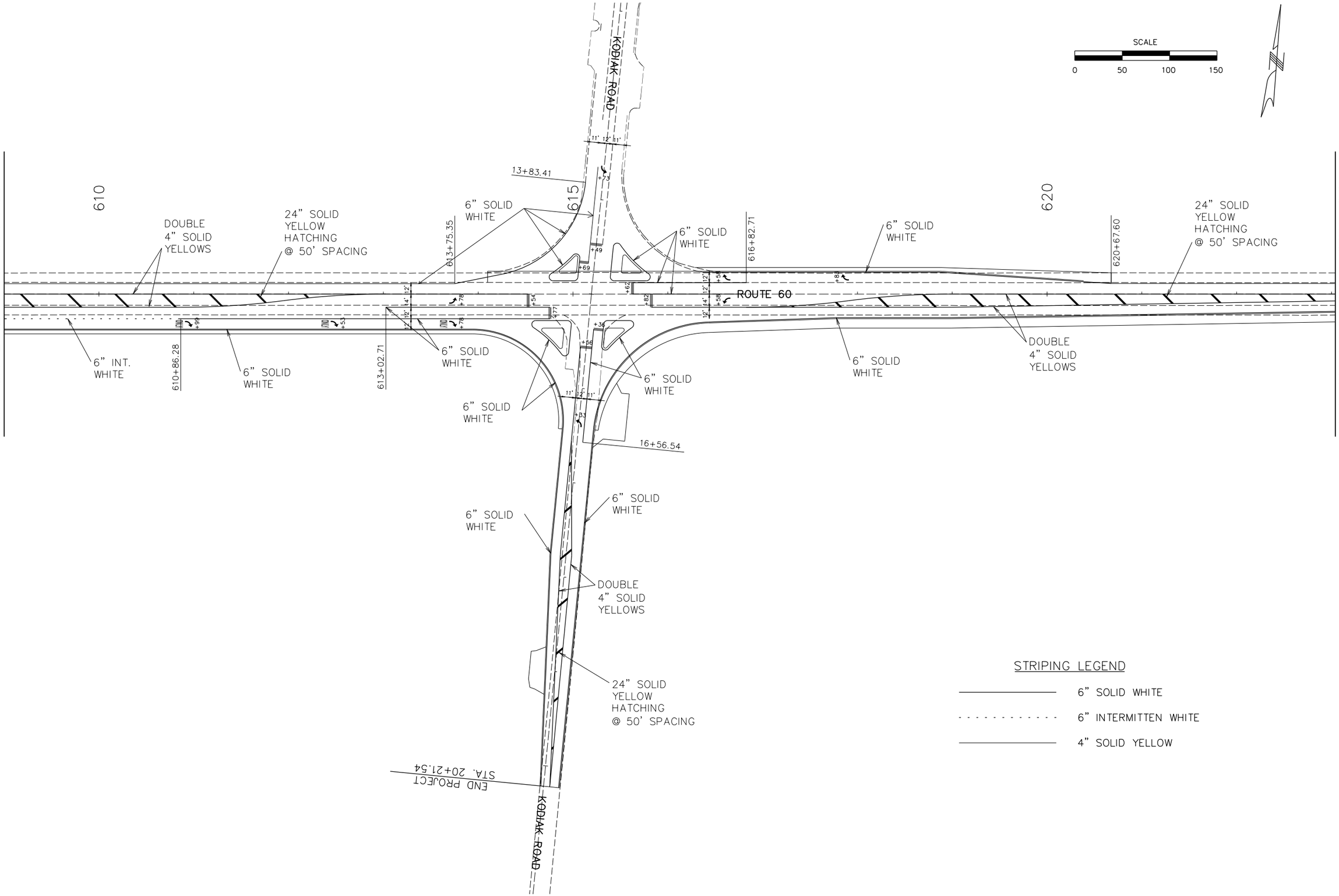

STRIPING LEGEND

———	6" SOLID WHITE
- - - - - - - - - - - -	6" INTERMITTEN WHITE
———	4" SOLID YELLOW

DATE PREPARED
04/12/2012

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
7	35

COUNTY
NEWTON

JOB NO.
J7P2177

CONTRACT ID.
120727-G02

PROJECT NO.
FAF-60-1(39)

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

URS

PAVEMENT MARKING
SHEET 2 OF 3

FINAL PLANS

REV.

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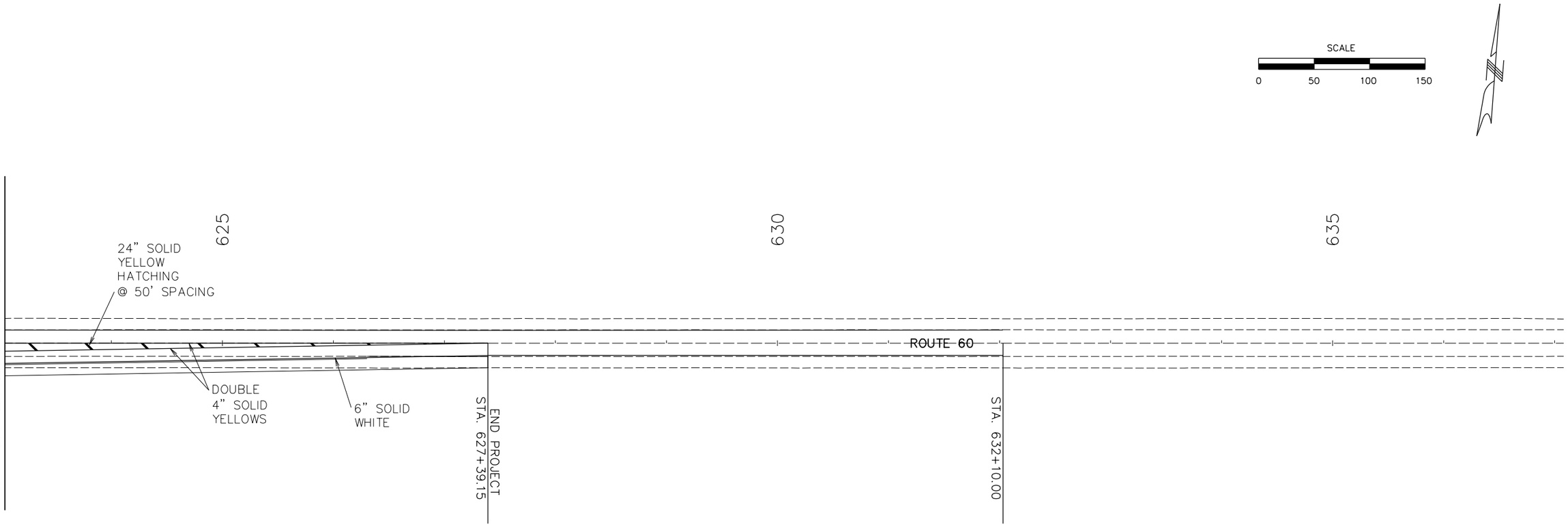

STRIPING LEGEND

6" SOLID WHITE

6" INTERMITTEN WHITE

4" SOLID YELLOW

DATE PREPARED
04/12/2012

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
7	36

COUNTY
NEWTON

JOB NO.
J7P2177

CONTRACT ID.
120727-G02

PROJECT NO.
FAF-60-1(36)

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

URS

PAVEMENT MARKING
SHEET 3 OF 3

FINAL PLANS

REV.

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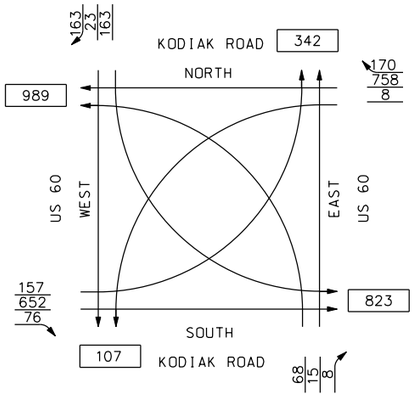

TRAFFIC FLOW DIAGRAM
ESTIMATED 2030
TRAFFIC VOLUME

SCALE
0 20 40 60

EXIST. R/W
12' 12'
EXIST. R/W
NO SIGNALS
KODIAK ROAD
S01^ 33' 20"W
+1.55%
(35 MPH)
DETECTION ZONE
DETECTION ZONE
1280' NEXT SIGNALS
ROUTE 60
+2.00%
(60 MPH)
DETECTION ZONE
DETECTION ZONE
-2.00%
(60 MPH)
DETECTION ZONE
DETECTION ZONE
14' 12' 12'
N85^ 47' 02"E
ONLY
ONLY
4540' NEXT SIGNALS
NO BUS STOPS
NO RAILROAD TRACKS
NO INTERCONNECTION
NO FIRE STATION
NO PARKING
NO SIGHT DISTANCE RESTRICTIONS
STA. 615+19.42 ROUTE 60
STA. 15+00.00 KODIAK ROAD
VIDEO DETECTION SHOWN FOR INFORMATION ONLY.
SEE OPTIONAL TRAFFIC SIGNAL DETECTORS JSP.
S01^ 20' 18"W
+1.67%
(35 MPH)
NO SIGNALS
12' 11'
EXIST. R/W
EXIST. R/W
EXIST. R/W
EXIST. R/W

TRAFFIC SIGNALS & LIGHTING LEGEND

CONTROLLER		PREFORMED PULL BOX	
POWER SOURCE		VIDEO DETECTOR	
SIGNAL HEAD (STANDARD)		DETECTION ZONE	DETECTION ZONE
150 W LUMINAIRE		CONDUIT PUSHED	
TYPE A BASE		CONDUIT TRENCHED	

DATE PREPARED
04/12/2012

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
7	22

COUNTY
NEWTON

JOB NO.
J7P2177

CONTRACT ID.
120727-G02

PROJECT NO.
FAF-60-1(39)

BRIDGE NO.

DESCRIPTION

DATE

REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

URS

INTERSECTION OF ROUTE 60
AND KODIAK ROAD

SIGNAL PLANS
SHEET 1 OF 6

FINAL PLANS

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EFFECTIVE: 05-01-2008

| POST NUMBER | PULL BOX NUMBER | LOCATION APPROACH | LOCATION STATION | LOCATION OFFSET | BASE A 9 | BASE A 9.5 | BASE A 10 | BASE A 10.5 | BASE A 11 | BASE A 12 | BASE F 9 | BASE F 9.5 | BASE F 10 | BASE F 10.5 | BASE F 11 | BASE F 12 | BASE C | CONCRETE** (CU. YDS.) | PULL BOX PREFORMED CLASS 1 | PREFORMED CLASS 2 | PREFORMED CLASS 3 | PREFORMED CLASS 5 | CONCRETE STANDARD | CONCRETE DOUBLE, TYPE A | CONCRETE DOUBLE, TYPE B | DRAIN TYPE* – | DRAIN TYPE* = A | DRAIN TYPE* = B | DRAIN TYPE* = C | TOP MOUNT POST 8 FT. | TOP MOUNT POST 15 FT. | TYPE C & CL ARM LENGTH A | ARM LENGTH A | ARM LENGTH A | ARM LENGTH A | TYPE C & CL SIGNAL SPACING B | SIGNAL SPACING C | SIGNAL SPACING D | SIGNAL SPACING D' | TYPE C & CL SIGN SPACING B | SIGN SPACING C | SIGN SPACING D | SIGN SPACING D' | TYPE B & BL ARM LENGTH E | E | K | E | K | E | LEFT ARM E SIGNAL SPACING F | G | H | H' | LEFT ARM E SIGN SPACING F | G | H | H' | RIGHT ARM K SIGNAL SPACING L | M | N | N' | RIGHT ARM K SIGN SPACING L | M | N | N' | INCLUDED ANGLE | LUMINAIRE BRACKET ARM* 4 FT. | 6 FT. | 8 FT. | 10 FT. | 12 FT. | 15 FT. |
|---|---|---

EFFECTIVE: 07-01-2008

CONDUIT

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET.	TRENCH				PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"		2"	3"	4"	2"	3"	4"	2"	3"		
∅	⊠	12.1'		16.1'													
⊠	1	9.6'			25.2'												2 RUNS OF 12.6' EACH
1	2	56.2'				23.0'				31.2'							
2	(1)	6.0'			9.0'												
2	3	68.3'				39.5'				26.8'							
3	(2)	5.6'			8.6'												
3	4	52.3'			50.3'												
4	(3)	6.6'			9.6'												
2	5	56.0'								54.0'							
5	(4)	5.3'			8.3'												
∅	1	21.0'		25.0'													
3	6	44.6'			42.6'												
6	(5)	54.8'		57.8'													
5	7	42.7'								40.7'							
7	(6)	49.7'		52.7'													
SUBTOTALS				151.6'	153.6'	62.5'				152.7'							
TOTALS				✓152'	✓154'	✓63'				✓153'							

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER	CONTROL				CLOSED LOOP INTERCONNECT	LUMINAIRE		DETECTOR		FIBER		REMARKS
			1c #8	2c #16	5c #16	7c #16	3c #16	3 PAIR #16	CONTROL 2c #12	POLE & BRACKET 1c #10	1c #14 IN DUCT	2c #14 LEAD-IN CABLE	SINGLE-MODE	MULTI-MODE	
∅	⊠	12.1'	44.3'												3 RUNS FOR POWER
⊠	50	71.8'				146.8'									
⊠	21	71.8'				146.8'									
21	22	8.0'				14.0'									JUMPER
∅	(1)	71.1'							148.2'	90.0'					LUMINAIRE
⊠	70	139.7'				217.7'									
⊠	41	139.7'				217.7'									
41	42	8.0'				14.0'									JUMPER
∅	(2)	139.0'							219.2'	84.0'					LUMINAIRE
⊠	10	192.6'				280.6'									
⊠	61	192.6'				280.6'									
61	62	8.0'				14.0'									JUMPER
∅	(3)	191.9'							281.5'	90.0'					LUMINAIRE
⊠	30	127.6'				209.6'									
⊠	81	127.6'				209.6'									
81	82	8.0'				14.0'									JUMPER
∅	(4)	126.9'							206.6'	84.0'					LUMINAIRE
SUBTOTALS			44.3'			1765.4'			809.9'	348.0'					
TOTALS			✓50'			✓1770'			✓810'	✓350'					

DATE PREPARED 04/12/2012

ROUTE 60 | STATE MO

DISTRICT 7 | SHEET NO. 24

COUNTY ✓NEWTON

JOB NO. ✓J7P2177

CONTRACT ID. ✓120727-G02

PROJECT NO. ✓FAF-60-1(39)

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

URS

INTERSECTION OF ROUTE 60
AND KODIAK ROAD

SIGNAL PLANS
SHEET 3 OF 6

INTERSECTION KODIAK ROAD

D-37B ✓ FINAL PLANS

REV.

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EFFECTIVE: 04-01-2002

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
APPROACH	STATION	OFFSET	DRAWING 902.15	DRAWING	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
							SIGNALS	LIGHTING				
ROUTE 60	614+71.31	79.7 LT	Type 2		15 Amps	20 Amps	50 Amps	50 Amps	✓ 1	20 Amps	Cl. Ft.	1
			Type		15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
							TYPE		12C/7C HARDWARE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
ROUTE 60	614+71.31	73.9 LT			1							✓ 1					1					

OPTIONAL TRAFFIC SIGNAL DETECTOR SYSTEM

✓ 1

DETECTOR SCHEDULE

DETECTOR ZONE NUMBER	APPROACH	TYPE				
		PUSH BUTTON	INDUCTION LOOP (2)			VIDEO
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
21	ROUTE 60 WB					1
50	ROUTE 60 WB					1
	LEFT TURN					
41	KODIAK RD SB					2
70	KODIAK RD SB					2
	LEFT TURN					
61	ROUTE 60 EB					3
10	ROUTE 60 EB					3
	LEFT TURN					
81	KODIAK RD NB					4
30	KODIAK RD NB					4
	LEFT TURN					
TOTAL						

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) VIDEO DETECTION SHOWN FOR INFORMATION ONLY. SEE OPTIONAL TRAFFIC SIGNAL DETECTORS JSP.

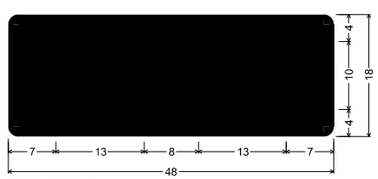
NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1	10	61			30	81		
	2	50	21			70	41		

TOTAL NUMBER OF DETECTOR CARDS (2-CHANNEL) = (2)

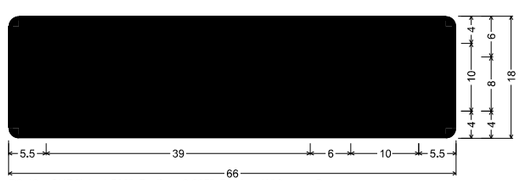
NEMA LOAD SWITCH ASSIGNMENTS

1	2	3	4	5	6	7	8	9	10	11	12
10	21/22	30	41/42	50	61/62	70	81/82				



D3-18 SHR2L1;
1.500" Radius, 0.625" Border, White on Green;
[US 60] C;
Table of letter and object lefts.

U 7.000	S 14.625	6 28.000	0 35.250



D3-18 SHR2L1; 1.500" Radius, 0.625" Border, White on Green;
[Kodiak] C; [Rd] C;
Table of letter and object lefts.

K 5.500	o 12.625	d 19.500	i 27.625	a 31.500	k 39.625	R 50.500	d 56.500

TOTAL NUMBER OF DETECTOR CARDS (2-CHANNEL) = (2)

DATE PREPARED 04/12/2012
ROUTE 60 | STATE MO
DISTRICT 7 | SHEET NO. 25
COUNTY ✓ NEWTON
JOB NO. ✓ J7P2177
CONTRACT ID. ✓ 120727-G02
PROJECT NO. ✓ FAF-60-1(39)
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

URS

INTERSECTION OF ROUTE 60 AND KODIAK ROAD
SIGNAL PLANS
SHEET 4 OF 6

KODIAK ROAD
INTERSECTION

D-37C ✓ FINAL PLANS REV.

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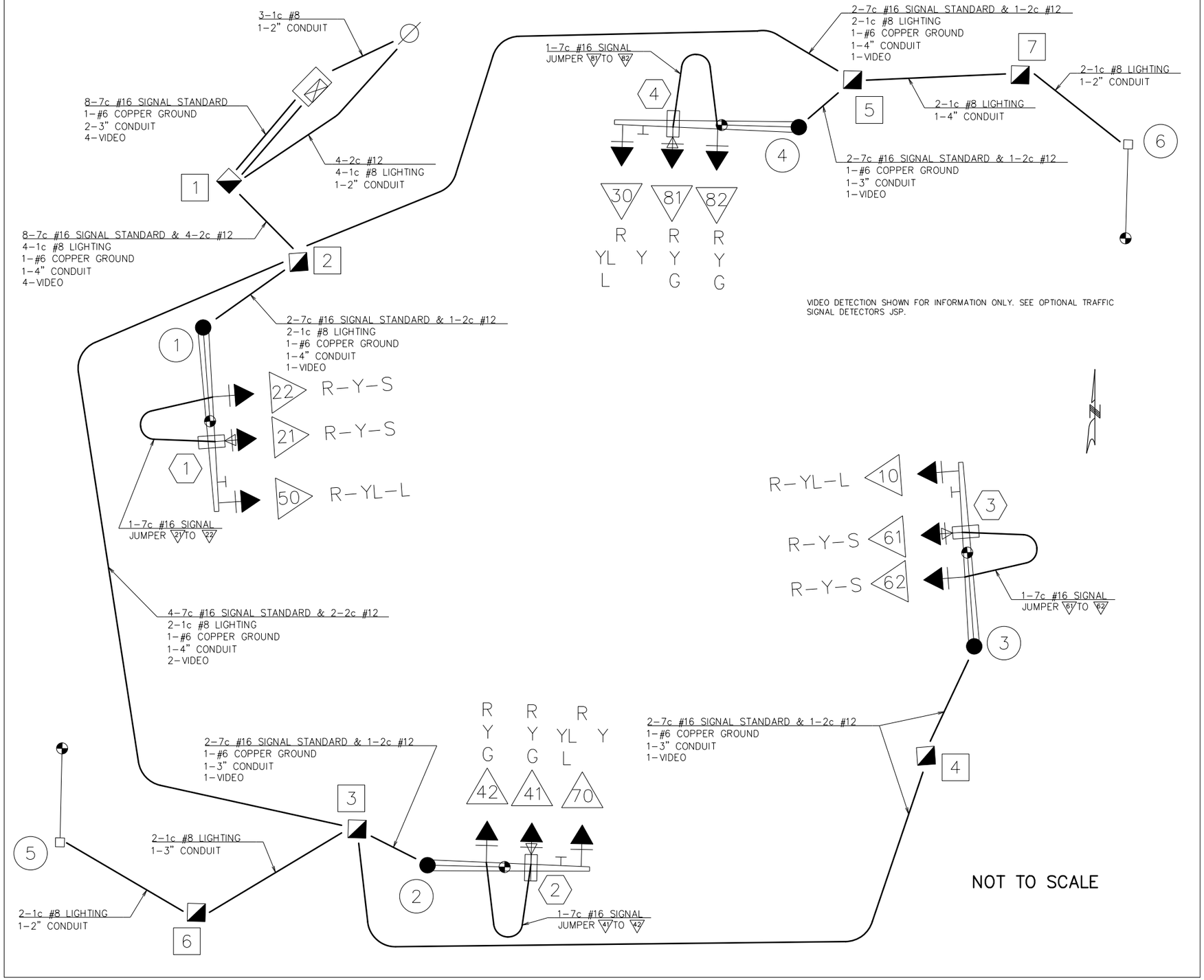
WIRING DIAGRAM



LEGEND

3"	CONDUIT CONTAINING CABLE WITH SIZE
	CABLE
X-Xc	MULTI-CONDUCTOR CABLE #12 AWG (UNLESS OTHERWISE INDICATED)
LIC	#14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
X	PULL BOX WITH NUMBER
X	POST WITH NUMBER
X	POST WITH MAST ARM
X	POST WITH MAST ARM AND LUMINAIRE
X	DETECTOR WITH NUMBER
X	SIGNAL HEAD WITH NUMBER
	SIGNAL CONTROLLER
	POWER SUPPLY
	LIGHTING CONTROLLER
	VIDEO DETECTION CAMERA

KODIAK ROAD

INTERSECTION

DATE PREPARED 04/12/2012
ROUTE 60 | STATE MO
DISTRICT 7 | SHEET NO. 26
COUNTY NEWTON
JOB NO. J7P2177
CONTRACT ID. 120727-G02
PROJECT NO. FAF-60-1(39)
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

URS

INTERSECTION OF ROUTE 60 AND KODIAK ROAD

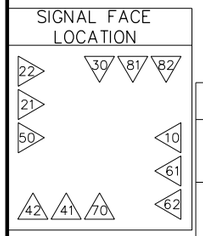
SIGNAL PLANS
SHEET 5 OF 6

D-37D FINAL PLANS

REV.

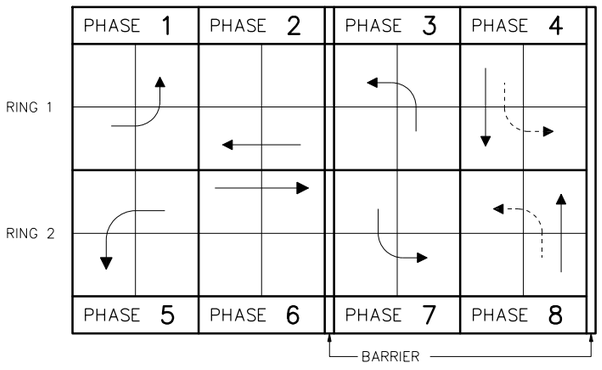
EFFECTIVE: 09-08-2009

SIGNAL FACE LOCATION



TRAFFIC PHASING AND COLOR SEQUENCE – ACTUATED CONTROLLERS

	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Φ OVERLAP	PED Φ OVERLAP	PED Φ OVERLAP	PED Φ OVERLAP	
FACE NUMBERS	10	21 22	30	41 42 70	50	61 62	70	81 82 30					FACE NUMBERS
SIGNAL INDICATIONS R	R	R R		R R R	R	R R		R R R					R
SIGNAL INDICATIONS Y	YL	Y Y	YL	Y Y Y	YL	Y Y	YL	Y Y Y					Y
SIGNAL INDICATIONS FYA													FYA
SIGNAL INDICATIONS G	L	S S	L	G G G	L	S S	L	G G G					G
DETECTION ZONE	10	21 21	30	41 41 70	50	61 61	70	81 81 30					DETECTOR ASSIGNMENTS
VIDEO CAMERA	3	1 1	4	2 2 2	1	3 3	2	4 4 4	DETECTOR ASSIGNMENTS (PEDS. ONLY)				
								OVERLAP PARENT PHASES					



RING STRUCTURE

IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED
- FDW — FLASHING DON'T WALK
- R/W — RIGHT OF WAY INTERVAL
- DW — DON'T WALK
- YRt — YELLOW RIGHT ARROW
- RT. — GREEN RIGHT ARROW
- W — WALK
- LY – YL — YELLOW LEFT ARROW
- L — GREEN LEFT ARROW
- S — GREEN STRAIGHT AHEAD ARROW
- G — CIRCULAR GREEN
- Y — CIRCULAR YELLOW
- R — CIRCULAR RED
- Ø — TRAFFIC PHASE
- AO — ALL OTHERS
- FR — FLASHING RED
- FY — FLASHING CIRCULAR YELLOW
- FYA — FLASHING YELLOW ARROW
- FYL — FLASHING YELLOW LEFT ARROW
- FYR — FLASHING YELLOW RIGHT ARROW

FLASHING OPERATION	
KODIAK ROAD	FR
ROUTE 60	FY

CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF

WITH

KODIAK ROAD

DATE PREPARED 04/12/2012
ROUTE 60 | STATE MO
DISTRICT 7 | SHEET NO. 27
COUNTY NEWTON
JOB NO. J7P2177
CONTRACT ID. 120727-G02
PROJECT NO. FAF-60-1(39)
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
MoDOT
URS

INTERSECTION OF ROUTE 60 AND KODIAK ROAD

SIGNAL PLANS SHEET 6 OF 6

D-38A FINAL PLANS

REV.

SCALE
0 50 100 150

SOUTH M3-3
NORTH M3-1
71 M1-4
71 M1-4
M6-3
R1-1b

JCT M2-1
71 M1-4

YIELD R1-2
YIELD R1-2

Fort Smith AR
Joplin
D1-2

605
STA. 605+68.83

STA. 608+63.39

610

STA. 611+66.86

STA. 614+53.39

615

KODIAK ROAD

STA. 615+88.04

ROUTE 60

STA. 604+85.87
1
MoDOT ADOPT-A-HIGHWAY
Litter Cleanup
1-2 Miles
NEOSHO WAL-MART SUPERCENTER

STA. 606+82.55
2
4
NEOSHO NATIONAL FISH HATCHERY
RG-090

STA. 608+80.32
3
RIGHT LANE MUST TURN RIGHT
R3-7R
30" X 30"

STA. 613+55.19
4
SPEED LIMIT 50
R2-1

STA. 614+50.21
5
YIELD
48"
R1-2
BK. TO BK.
DO NOT ENTER
R5-1
5a
30" X 30"

STA. 615+48.48
6
STATE PROPERTY
AUTHORIZED PERSONNEL ONLY
R2-1

STA. 615+81.69
7
YIELD
48"
R1-2
BK. TO BK.
DO NOT ENTER
R5-1
7a
30" X 30"

MATCH LINE STA. 616+75

DATE PREPARED
04/12/2012
ROUTE 60
STATE MO
DISTRICT 7
SHEET NO. 28
COUNTY NEWTON
JOB NO. J7P2177
CONTRACT ID. 120727-G02
PROJECT NO. FAF-60-1(39)
BRIDGE NO.

DESCRIPTION
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT
URS

SIGNING PLANS
SHEET 1 OF 4

FINAL PLAN

REV.

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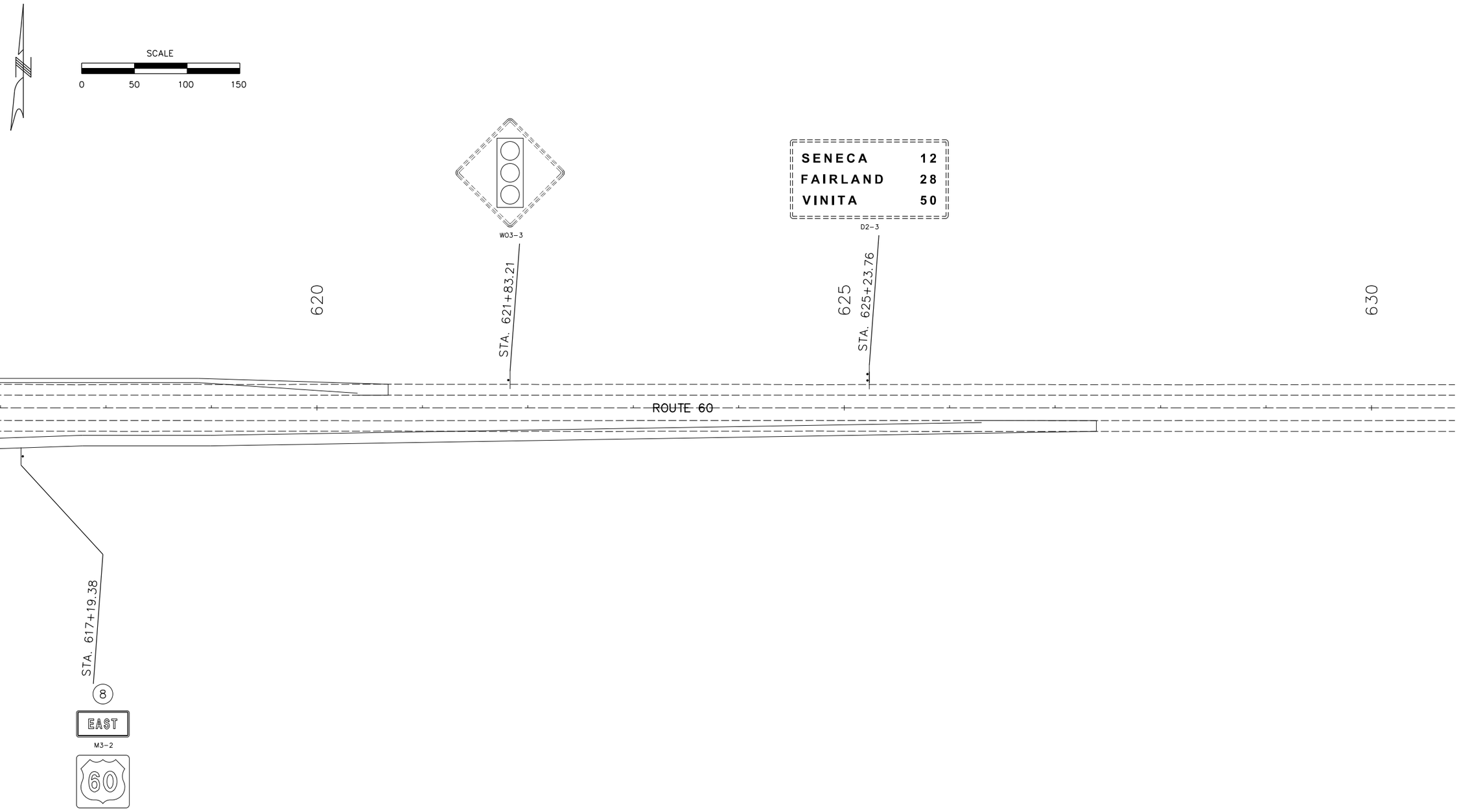


DATE PREPARED
04/12/2012

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
7	29

COUNTY
NEWTON

JOB NO.
J7P2177

CONTRACT ID.
120727-G02

PROJECT NO.
FAF-60-1(39)

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
URS

SIGNING PLANS
SHEET 2 OF 4

FINAL PLANS

REV.

SIGNS					PIPE POST					STRUCTURAL STEEL POSTS						BACKING BARS 2" X 3/8" BARS @ 2.55 LBS PER LIN FT				TOTAL ITEM NO. 903-12.10	U-CHANNEL POST ITEM NO. 903-12.50	WOOD POSTS			PERF. STEEL SQ.		BREAKAWAY ASSEMBLY ITEM NO. 903-12.40	CONC FTG'S EMBD ITEM NO. 903-10.10	CONC FTG'S BOLT DOWN ITEM NO. 903-10.20	HORZ CLEAR IF NOT STD	DELINEATORS, MILEPOSTS, CONDUIT, CONDUCTOR CABLE, TRENCHING AND BACKFILLING. CONTROL STATION, PULL BOXES AND OTHER REQUIRED ITEMS.
SIGN NO.	STATION	SIGN DTL. SHT. NO.	LOCATION	SIGN SIZE	PIPE SIZE	POST NO. 1	POST NO. 2	LBS PER FT	TOTAL ITEM NO. 903-12.20	POST DES NO.	POST NO. 1	POST NO. 2	POST NO. 3	LBS PER FT	TOTAL	NO. EACH	LGTH IN.	TOTAL LIN FT	TOTAL LBS	LBS	LIN FT	4"X4" ITEM NO. 903-12.60	4"X6" ITEM NO. 903-12.61	6"X6" ITEM NO. 903-12.62	POSTS ITEM NO. 903-12.70	ANCHOR SLEEVE ITEM NO. 903-12.71	EACH	CU YDS	CU YDS		
					IN.	LIN FT	LIN FT		LBS		LIN FT	LIN FT	LIN FT		LBS							LIN FT	LIN FT	LIN FT	LIN FT	LIN FT					
1	604+85.97		RTE 60 RT	36"X24"												2	26	4.33	11.04	11					15	4.0		0.13			
2	606+82.55		RTE 60 RT	72"X24"												4	26	8.66	22.08	22					29.5	8.0		0.26			
3	608+80.32		RTE 60 RT	30"X30"												2	26	4.33	11.04	11					16	4.0		0.13			
4	613+55.19		RTE 60 RT	36"X48"												2	26	4.33	11.04	11					17	4.0		0.13			
5	614+50.21		RTE 60 RT	ASSEMBLY																					18.25	4.0		0.13			
6	615+48.48		RTE 60 RT	24"X12"																					14	4.0		0.13			
7	615+81.69		RTE 60 RT	ASSEMBLY																					18	4.0		0.13			
8	617+19.39		RTE 60 RT	ASSEMBLY																					16	4.0		0.13			
TOTAL																			55.2	✓60					✓144.0	✓ 36.0		✓1.2			

DATE PREPARED
04/12/2012

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
7	30

COUNTY
✓ NEWTON

JOB NO.
✓J7P2177

CONTRACT ID.
✓120727-G02

PROJECT NO.
✓FAF-60-1(39)

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)
MoDOT
URS

SIGNING PLANS
SHEET 3 OF 6

T:\J7P2177\PLAN_SHEETS\FINAL\030_SN_03_J7P2177_I1_D29.dgn 4:55:03 PM 4/7/2009

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	STATION	LOCATION	TYPE: R3-7R 30 X 30		R2-1 36 X 48		R1-2 48"	R5-1 30 X 30		M1-4 24 X 24	M3-2 24 X 12	
			SIGN DESCRIPTION, SIZES & NUMBER OF EACH									
			RIGHT LANE MUST TURN RIGHT R3-7R		SPEED LIMIT 50		YIELD 48"	GO NO ENTER 30X30		80 M1-4	EAST M3-2	
1	604+85.97	RTE 60 RT										
2	606+82.55	RTE 60 RT										
3	608+80.32	RTE 60 RT	1									
4	613+55.19	RTE 60 RT			1							
5,5a	614+50.21	RTE 60 RT					1	1				
6	615+48.48	RTE 60 RT										
7,7a	615+81.69	RTE 60 RT					1	1				
8	617+19.38	RTE 60 RT								1	1	

SIGN SUMMARY

	STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQUARE FEET: SIZE	SHR2L-1 ITEM NO. 903-50.04	STR2L-1 ITEM NO. 903-50.64	RELOCATED HIGHWAY SIGNING ITEM NO. 903-99.04	STR2L-3 ITEM NO. 903-50.11	36" STOP EACH
1	MoDOT ADOPT A HIGHWAY		1	36"X24"			6.0		
2	NEOSHO NATIONAL FISH HATCHERY		1	72"X24"			12.0		
3	RIGHT LANE MUST TURN RIGHT		1	30"X30"	6.25				
4	SPEED LIMIT 50		1	36"X48"			12.0		
5, 7	YIELD		2	48"	13.86				
5a, 7a	GO NO ENTER		2	30"X30"	12.5				
6	STATE PROPERTY AUTHORIZED PERSONNEL ONLY		1	30"X12"			2.5		
8	80		1	24"X24"			4.0		
8	EAST		1	24"X12"			2.0		
	D3-18 US 60		2	48"X18"	12.0				
	D3-18 KODIAK RD		2	66"X18"	16.5				
				USE	✓61		✓39		

DATE PREPARED 04/12/2012
ROUTE 60 | STATE MO
DISTRICT 7 | SHEET NO. 31
COUNTY ✓NEWTON
JOB NO. ✓J7P2177
CONTRACT ID. ✓120727-G02
PROJECT NO. ✓FAF-60-1(39)
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

URS

SIGNING PLANS
SHEET 4 OF 6

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
FINAL PLANS FOR
STATE HIGHWAY
NEWTON COUNTY
SEC 24 - T25N - R32W

DESIGN DESIGNATION

A.A.D.T. - 2015 = 11,710
A.A.D.T. - 2035 = 12,530
D.H.V. = 1.002
T = 11%
V = 50 M.P.H.
D = 58/42

FUNCTIONAL CLASSIFICATION - PRINCIPAL ARTERIAL

NORMAL RIGHT OF WAY

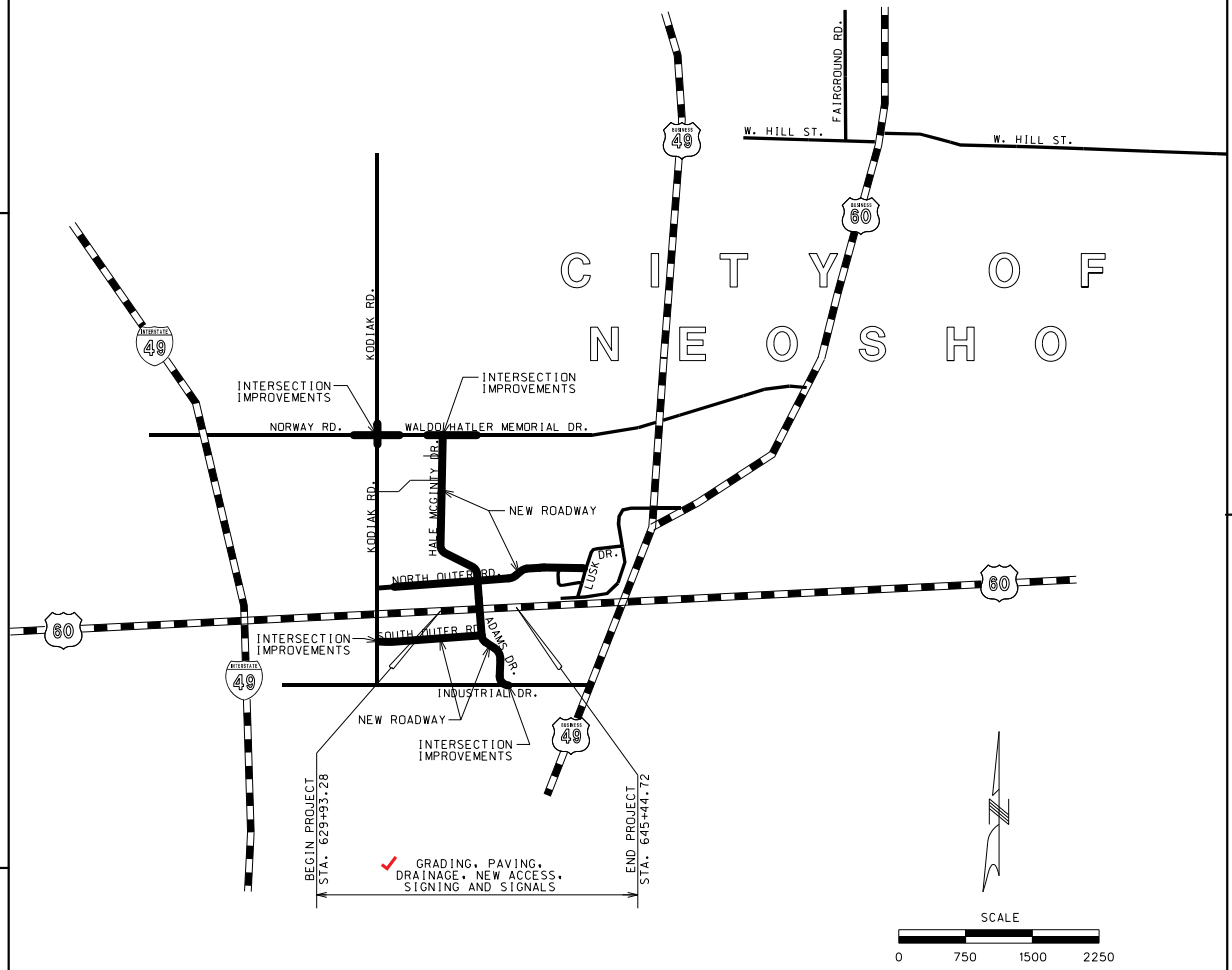
CONVENTIONAL SYMBOLS
(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	-FO-
OVERHEAD TELEPHONE		
UNDERGROUND TELEPHONE	-T-	-T-
OVERHEAD POWER		
UNDERGROUND POWER	-P-	-P-
GAS	-G-	-G-
WATER	-W-	-W-
MANHOLE	SAN	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
DROP INLET	DI	
DITCH BLOCK		
GROUND MOUNTED SIGN	SIGN	
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL	PED	
FENCE		
CHAIN LINK	V	
WOVEN WIRE	X	
GATE POST		
BENCHMARK	BM	
TENTATIVE RIGHT OF WAY	TENTATIVE R/W	
TEMPORARY CONSTRUCTION EASEMENT	TCE	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

ABBREVIATIONS

OBLIT	OBLITERATION
R	REMOVE
R AND REPLACE	REMOVE AND REPLACE
RELOC	RELOCATE
RELOC BY OTHERS	RELOCATE BY OTHERS
UIP	USE IN PLACE
ATG	ADJUST TO GRADE



INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET (GN)	GN001
TYPICAL SECTIONS (TS)	TS001-TS017
QUANTITIES (QU)	xx - xx
PLAN-PROFILE (PP)	PP001-PP044
GEOMETRY (GM)	GM001-GM005
SIGNALS (SG)	SG001-SG006
TRAFFIC CONTROL SHEETS (TC)	xx - xx
EROSION CONTROL (EC)	xx - xx
SIGNING & PAVEMENT MARKING (SN)	SN001-SN013
SPECIAL SHEETS (SP)	SP001-SP008
CULVERT SECTIONS (CS)	CS001-CS005
CROSS SECTIONS (XS)	xx - xx

Digitally signed by jason.evensen@modot.mo.gov
DN: cn=jason.evensen@modot.mo.gov
Date: 2016.03.15 07:54:05 -05'00'

LENGTH OF PROJECT
ROUTE 60

BEGINNING OF PROJECT	STA. 629+93.28	
END OF PROJECT	STA. 645+44.72	
APPERENT LENGTH	1,551.44	FEET
EQUATIONS AND EXCEPTIONS:	0.00	FEET
NET LENGTH OF PROJECT	1,551.44	FEET
STATE LENGTH	0.294	MILES

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED: 1/7/2016
ROUTE: 60 | STATE: MO
DISTRICT: SW | SHEET NO.: GN001
COUNTY: NEWTON
JOB NO.: J7P2178
CONTRACT ID.: 150123-G01
PROJECT NO.: FAF-60-1(33)
BRIDGE NO.:

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

REV.

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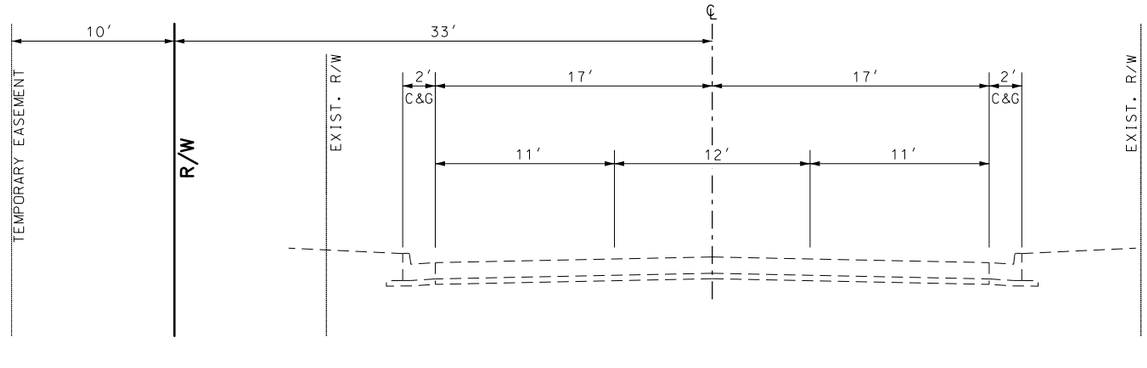
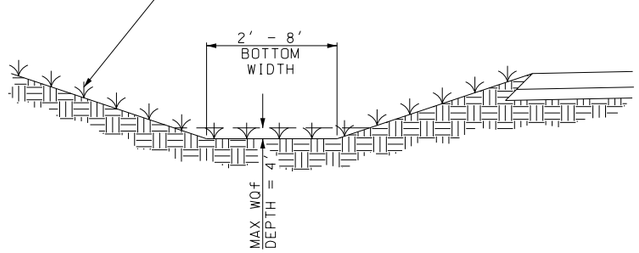
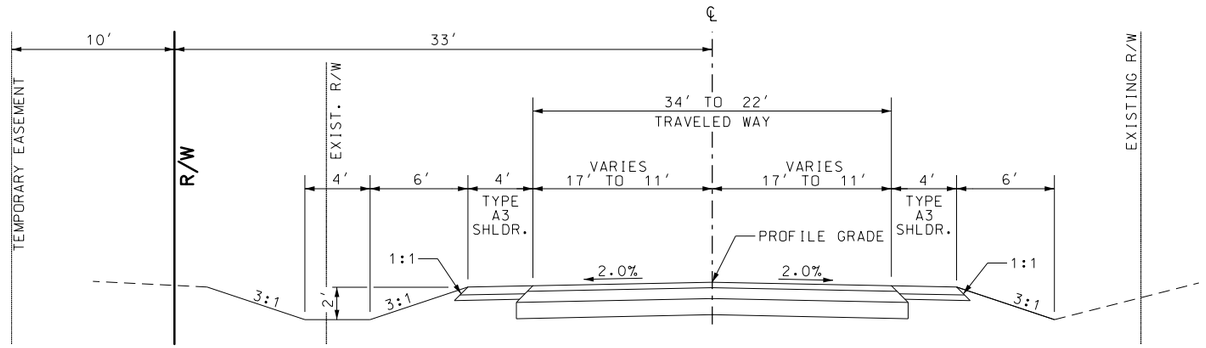




BMP DETAIL

NORTH OUTER ROAD
STA. 5+00.00 TO STA. 8+36.79



PAVEMENT DESIGN			
BASE TYPE	ASPHALT DESIGN	PCCP DESIGN	SHOULDERS
6″ TYPE 5 AGGREGATE BASE	2″ BP-1 PG64-22 4″ BIT BASE PG64-22	6″ PCCP	A3

NORTH OUTER ROAD
STA. 8+36.79 TO STA. 9+67.97

TYPICAL SECTIONS
SHEET 1 OF 17

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/14/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	TS001

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

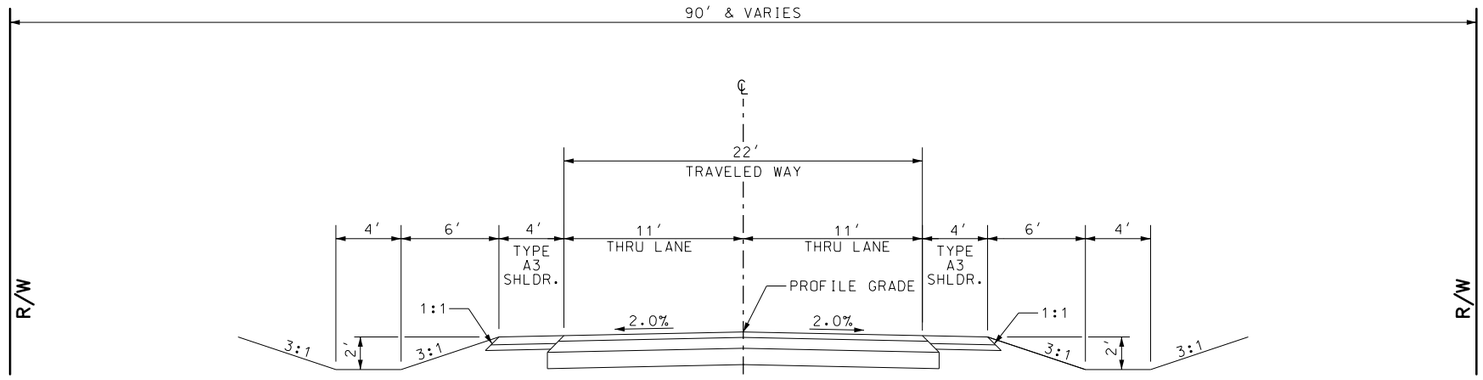
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

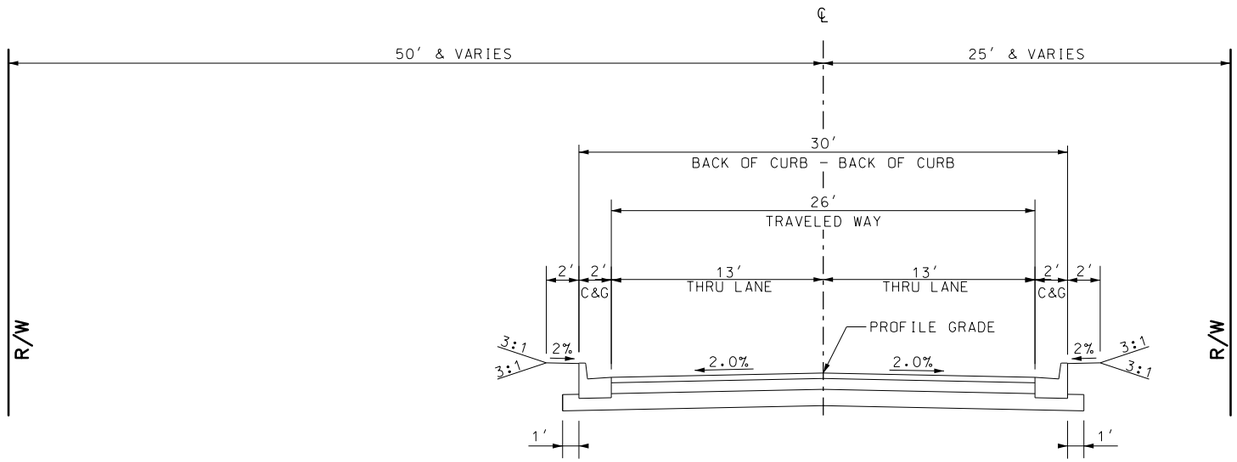
REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



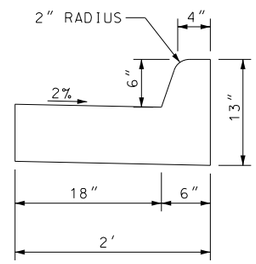
PAVEMENT DESIGN			
BASE TYPE	ASPHALT DESIGN	PCCP DESIGN	SHOULDERS
6" TYPE 5 AGGREGATE BASE	2" BP-1 PG64-22 4" BIT BASE PG64-22	6" PCCP	A3

NORTH OUTER ROAD
STA. 9+67.97 TO STA. 42+68.49



PAVEMENT DESIGN			
BASE TYPE	ASPHALT DESIGN	PCCP DESIGN	SHOULDERS
6" TYPE 5 AGGREGATE BASE	2" BP-1 PG64-22 4" BIT BASE PG64-22	6" PCCP	C&G

NORTH OUTER ROAD
STA. 42+68.49 TO STA. 51+92.17 (2)



DETAIL 2' CURB & GUTTER

TYPICAL SECTIONS
SHEET 2 OF 17

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/14/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	TS002

COUNTY: NEWTON
JOB NO.: J7P2178
CONTRACT ID.: 150123-G01
PROJECT NO.: FAF-60-1(33)
BRIDGE NO.:

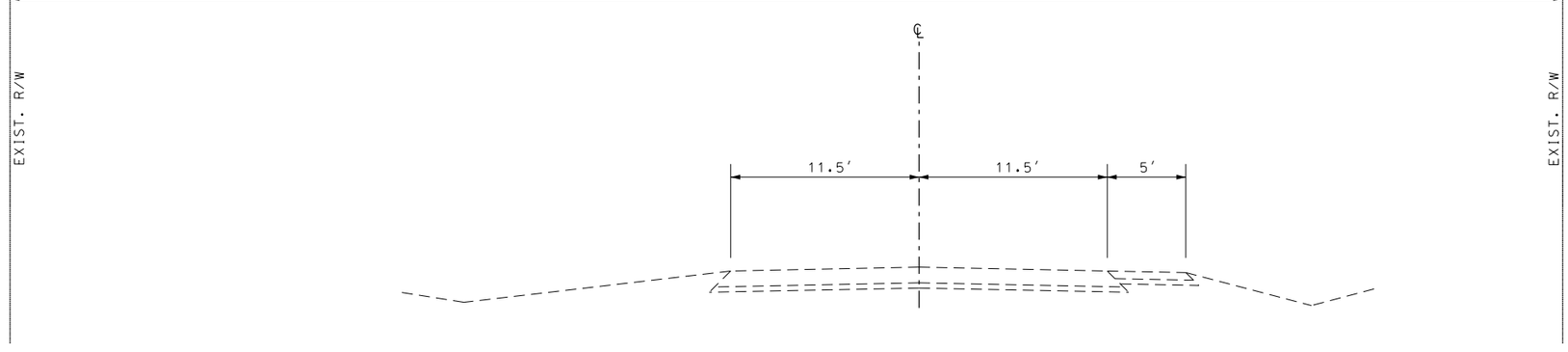
DESCRIPTION	DATE
(2) ALIGNMENT CHANGE	3/19/15

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

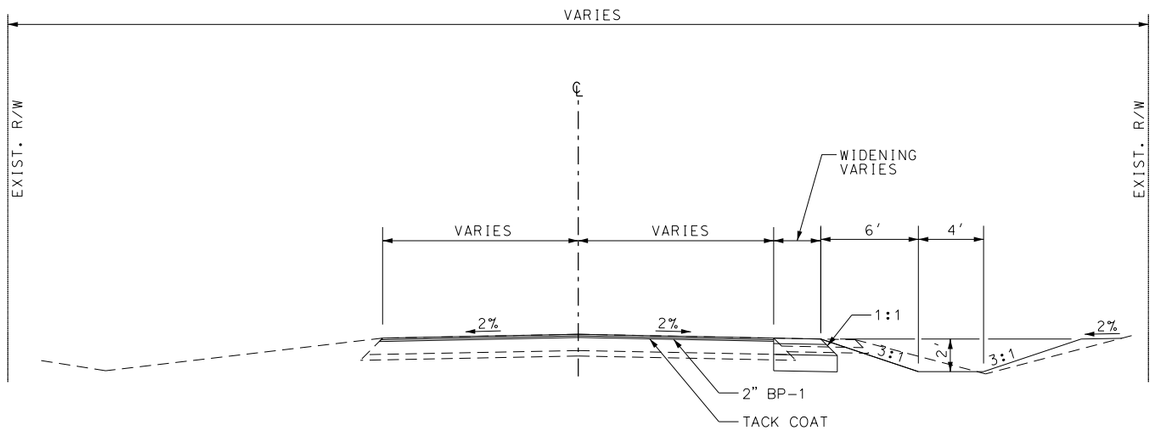
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

FINAL PLANS

REV.



NORWAY RD.
STA. 201+58.46



PAVEMENT DESIGN
ASPHALT DESIGN
2" BP-1 PG64-22 4" BIT BASE PG64-22 6" TYPE 5 AGGREGATE BASE

NORWAY RD.
STA. 201+58.46 TO STA. 203+23.19

TYPICAL SECTIONS
SHEET 3 OF 17

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/14/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	TS003

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

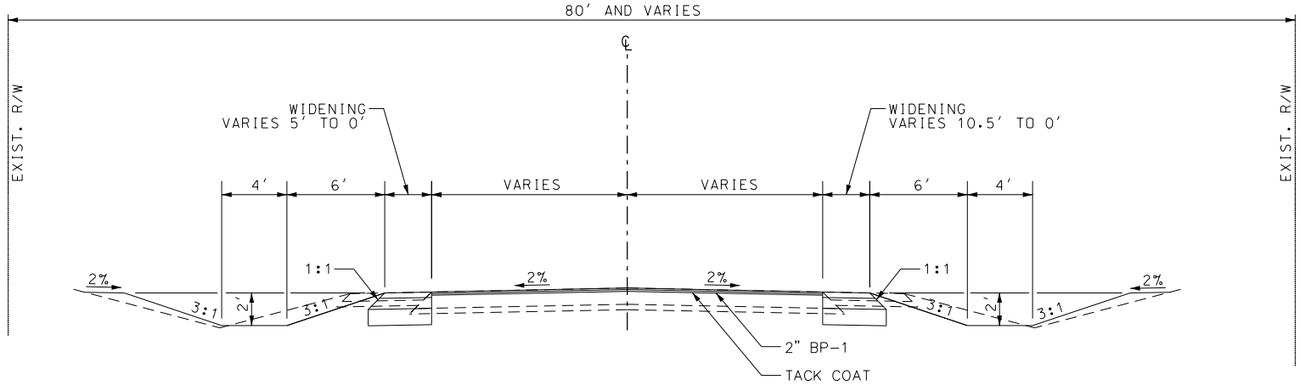
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

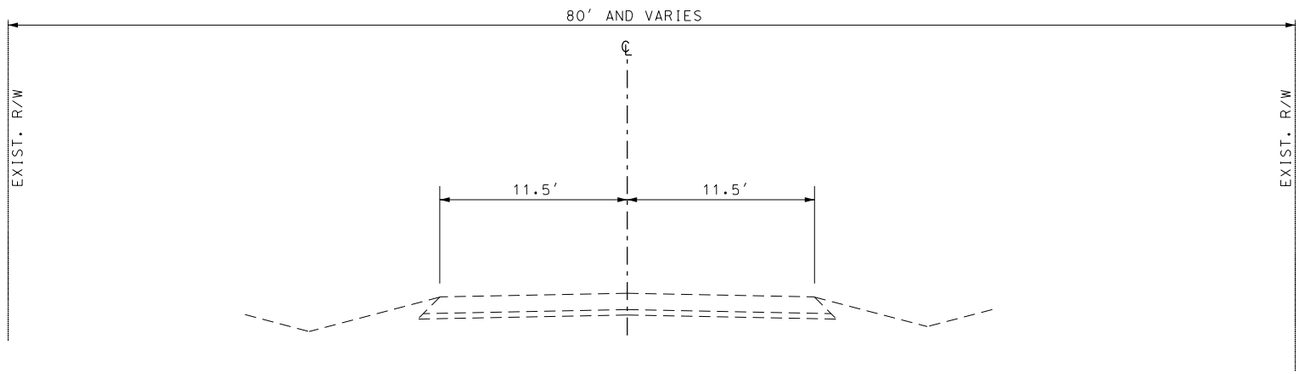
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.



PAVEMENT DESIGN
ASPHALT DESIGN
2" BP-1 PG64-22 4" BIT BASE PG64-22 6" TYPE 5 AGGREGATE BASE

WALDO HATLER MEMORIAL DR.
STA. 301+56.82 TO STA. 305+67.22



WALDO HATLER MEMORIAL DR.
STA. 305+67.22 TO STA. 311+80.41

TYPICAL SECTIONS
SHEET 4 OF 17

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/14/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	TS004

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

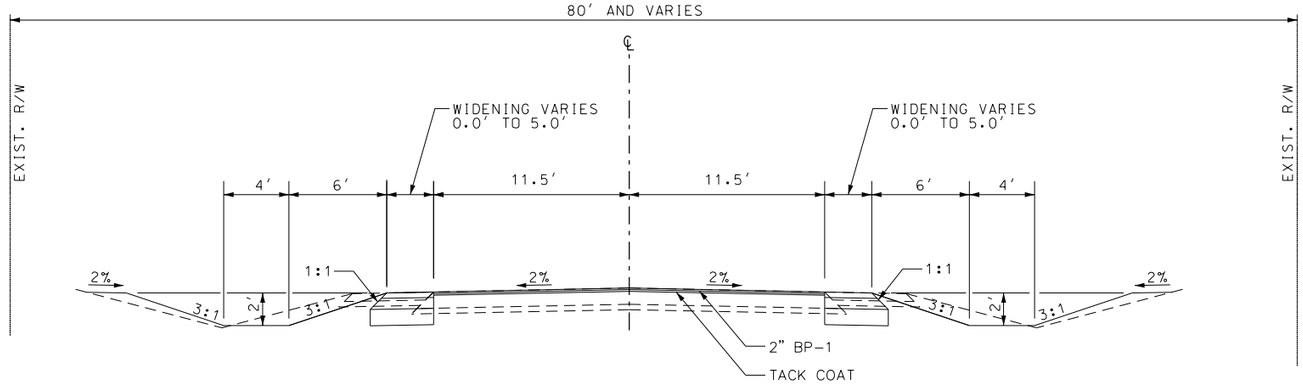
DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

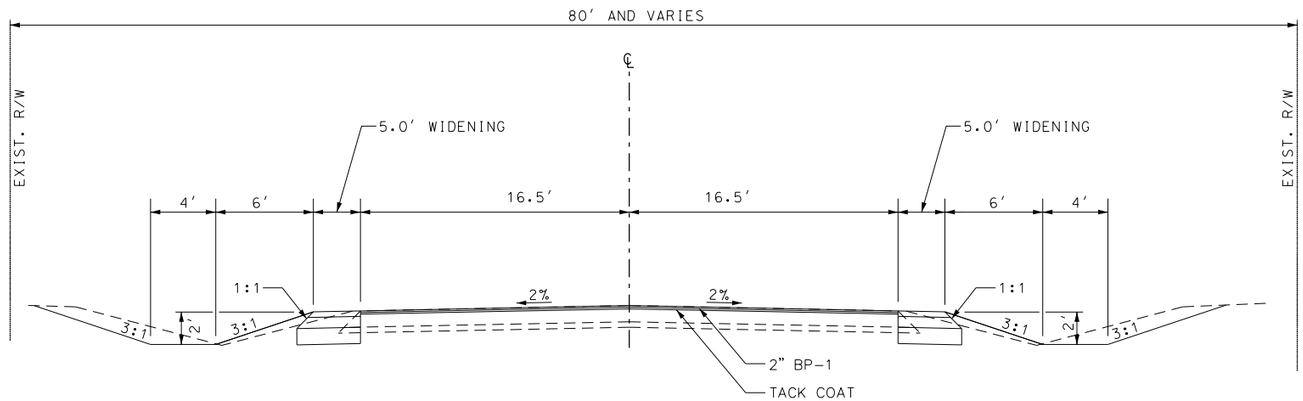
REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



PAVEMENT DESIGN
ASPHALT DESIGN
2" BP-1 PG64-22 4" BIT BASE PG64-22 6" TYPE 5 AGGREGATE BASE

WALDO HATLER MEMORIAL DR.
STA. 311+80.41 TO STA. 314+55.30



PAVEMENT DESIGN
ASPHALT DESIGN
2" BP-1 PG64-22 4" BIT BASE PG64-22 6" TYPE 5 AGGREGATE BASE

WALDO HATLER MEMORIAL DR.
STA. 314+55.30 TO STA. 316+55.53

✓TYPICAL SECTIONS
SHEET 5 OF 17

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/14/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	TS005

COUNTY: NEWTON
JOB NO.: J7P2178
CONTRACT ID.: 150123-G01
PROJECT NO.: FAF-60-1(33)
BRIDGE NO.:

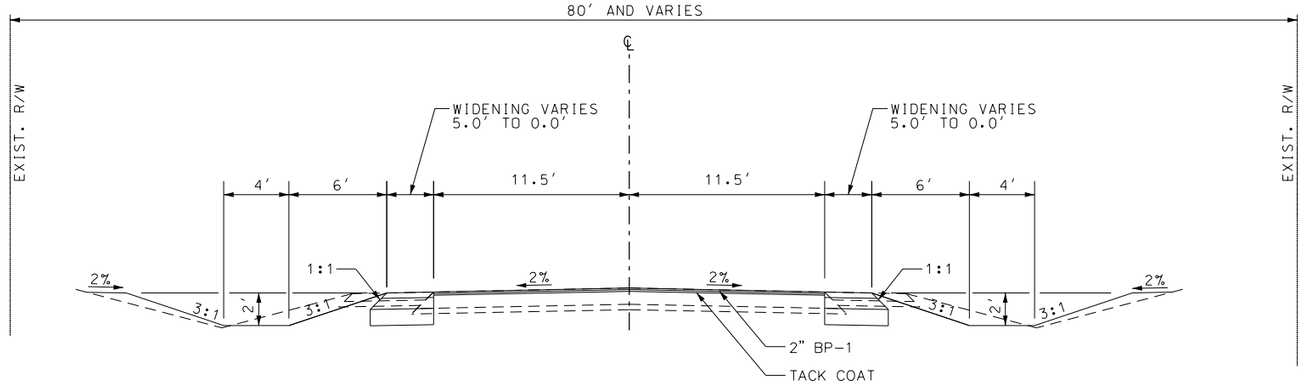
DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

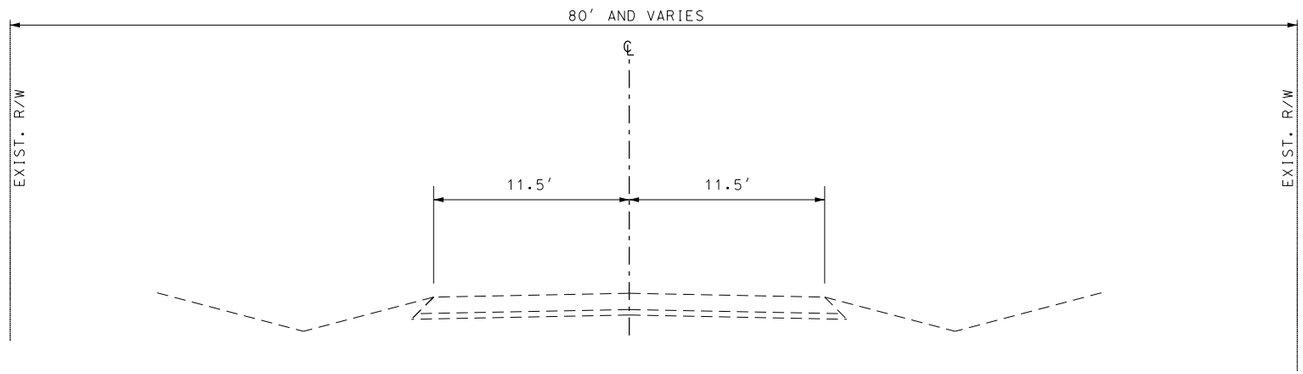
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.



PAVEMENT DESIGN
ASPHALT DESIGN
2" BP-1 PG64-22 4" BIT BASE PG64-22 6" TYPE 5 AGGREGATE BASE

WALDO HATLER MEMORIAL DR.
STA. 316+55.53 TO STA. 319+30.42



WALDO HATLER MEMORIAL DR.
STA. 319+30.42

TYPICAL SECTIONS
SHEET 6 OF 17

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/14/2015
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. TS006
COUNTY NEWTON
JOB NO. J7P2178
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(33)
BRIDGE NO.

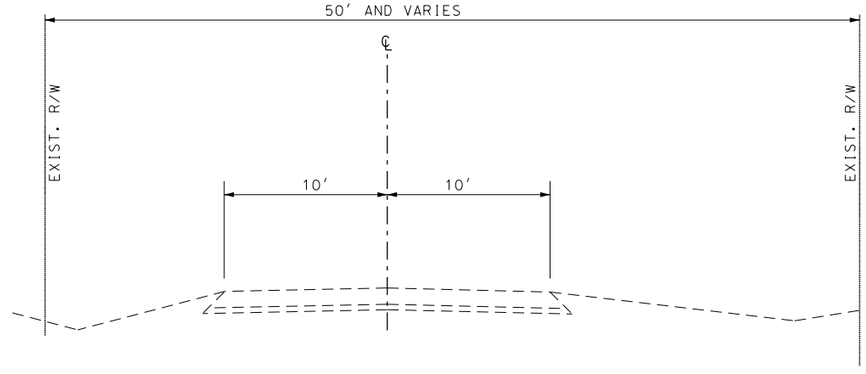
DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

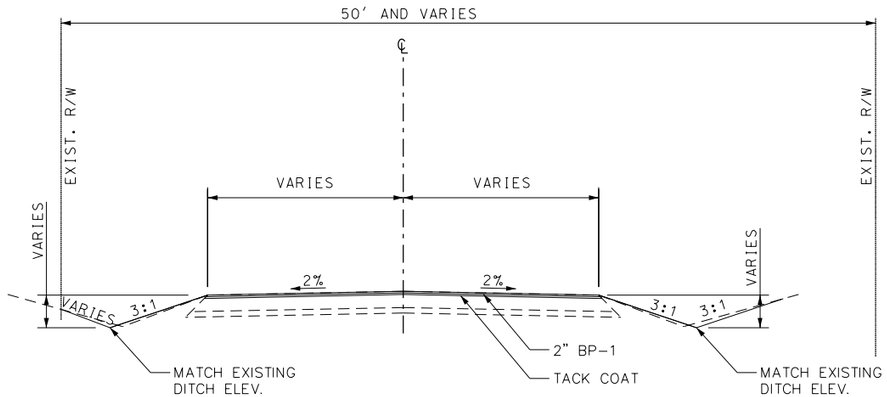
FINAL PLANS

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.



EXIST. KODIAK RD.
STA. 300+32.57



PAVEMENT DESIGN
ASPHALT DESIGN
2" BP-1 PG64-22 4" BIT BASE PG64-22 6" TYPE 5 AGGREGATE BASE

KODIAK RD.
STA. 300+32.57 TO STA. 302+46.64

TYPICAL SECTIONS
SHEET 7 OF 17

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/14/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	TS007

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

DESCRIPTION	DATE

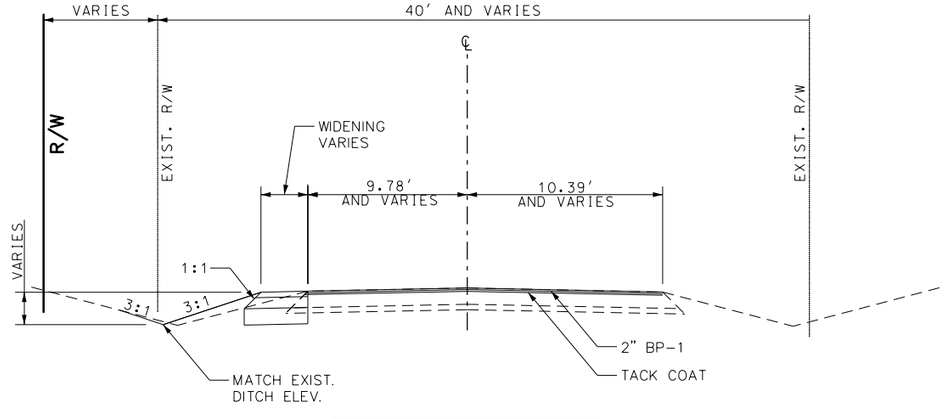
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

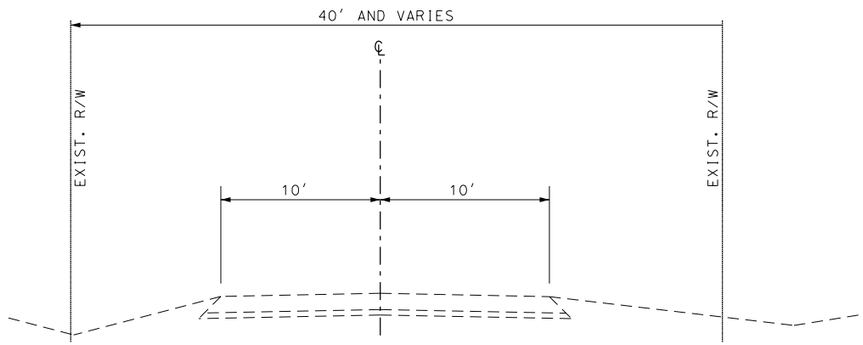
REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



PAVEMENT DESIGN
ASPHALT DESIGN
2" BP-1 PG64-22 4" BIT BASE PG64-22 6" TYPE 5 AGGREGATE BASE

KODIAK RD.
STA. 302+46.64 TO STA. 303+30.55



KODIAK RD.
STA. 303+30.55

TYPICAL SECTIONS
SHEET 8 OF 17

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/14/2015
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. TS008
COUNTY NEWTON
JOB NO. J7P2178
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(33)
BRIDGE NO.

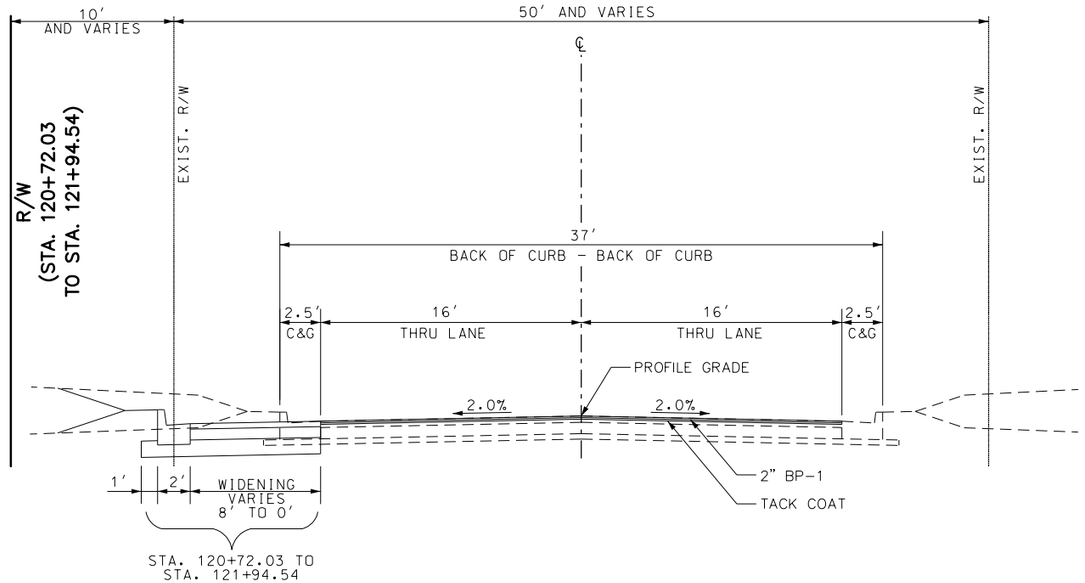
DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

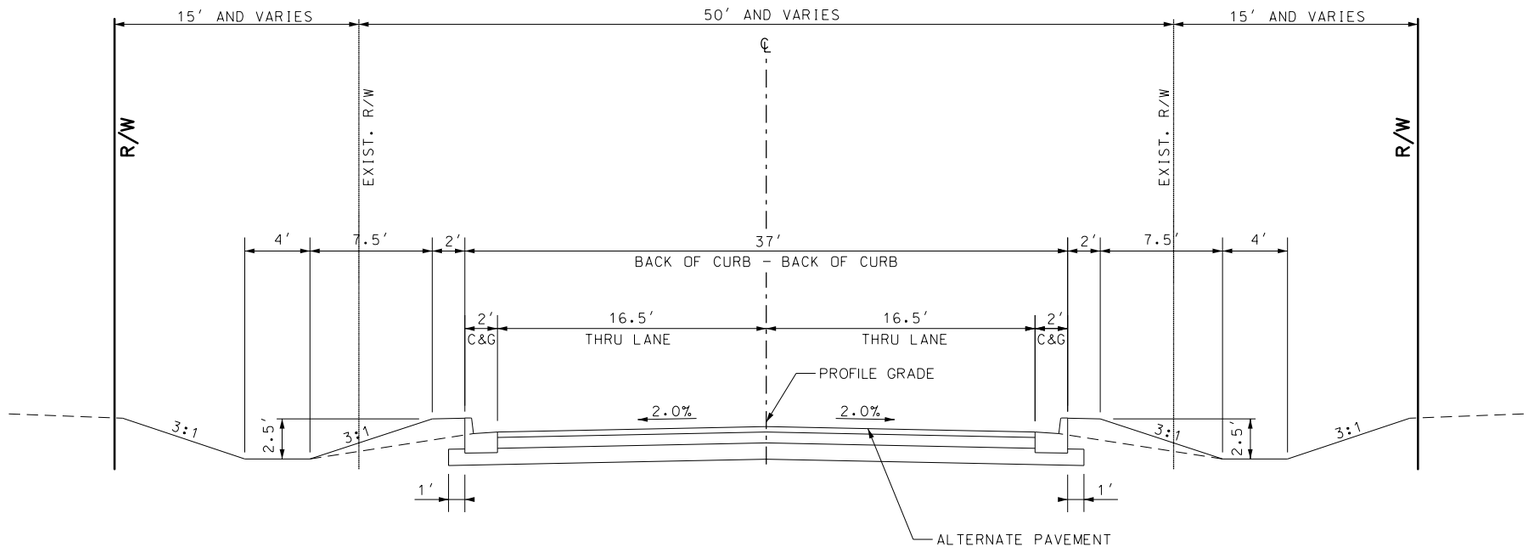
FINAL PLANS

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.



HALE McGINTY DR.
STA. 120+72.03 TO STA. 131+36.16



PAVEMENT DESIGN			
BASE TYPE	ASPHALT DESIGN	PCCP DESIGN	SHOULDERS
6" TYPE 5 AGGREGATE BASE	2" BP-1 PG64-22 4" BIT BASE PG64-22	6" PCCP	C&G

HALE McGINTY DR.
STA. 131+36.16 TO STA. 144+34.64
STA. 147+61.00 TO STA. 153+28.74

TYPICAL SECTIONS
SHEET 9 OF 17

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/14/2015
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. TS009
COUNTY NEWTON
JOB NO. J7P2178
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(33)
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

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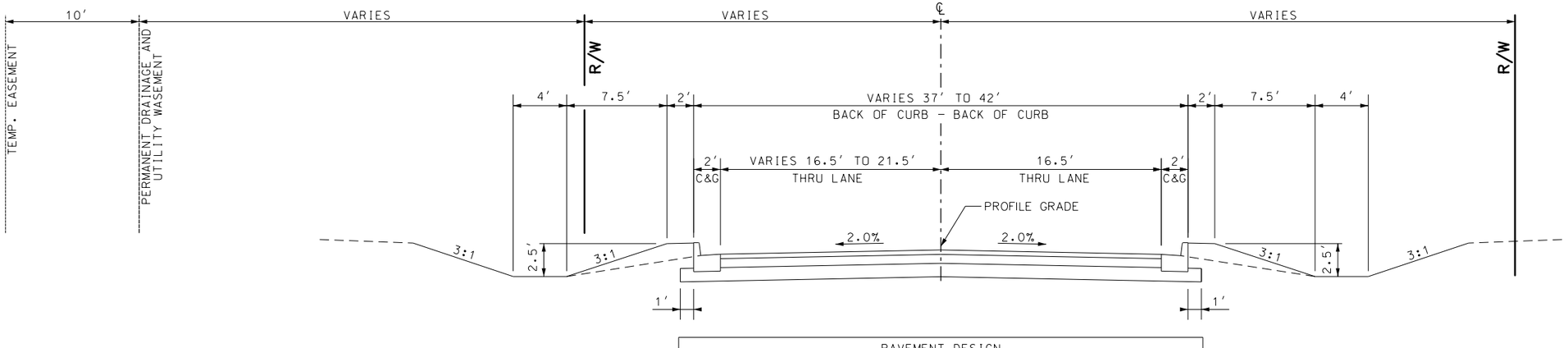
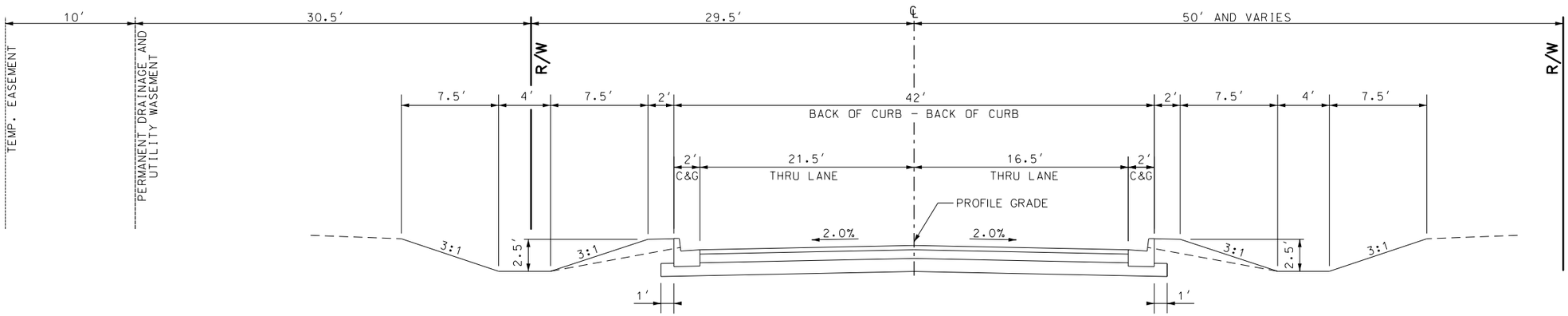


PAVEMENT DESIGN			
BASE TYPE	ASPHALT DESIGN	PCCP DESIGN	SHOULDERS
6″ TYPE 5 AGGREGATE BASE	2″ BP-1 PG64-22 4″ BIT BASE PG64-22	6″ PCCP	C&G

HALE McGINTY DR.
STA. 144+34.64 TO STA. 145+09.64



PAVEMENT DESIGN			
BASE TYPE	ASPHALT DESIGN	PCCP DESIGN	SHOULDERS
6″ TYPE 5 AGGREGATE BASE	2″ BP-1 PG64-22 4″ BIT BASE PG64-22	6″ PCCP	C&G

HALE McGINTY DR.
STA. 145+09.64 TO STA. 146+86.00

TYPICAL SECTIONS
SHEET 10 OF 17

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/14/2015
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. TS010
COUNTY NEWTON
JOB NO. J7P2178
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(33)
BRIDGE NO.

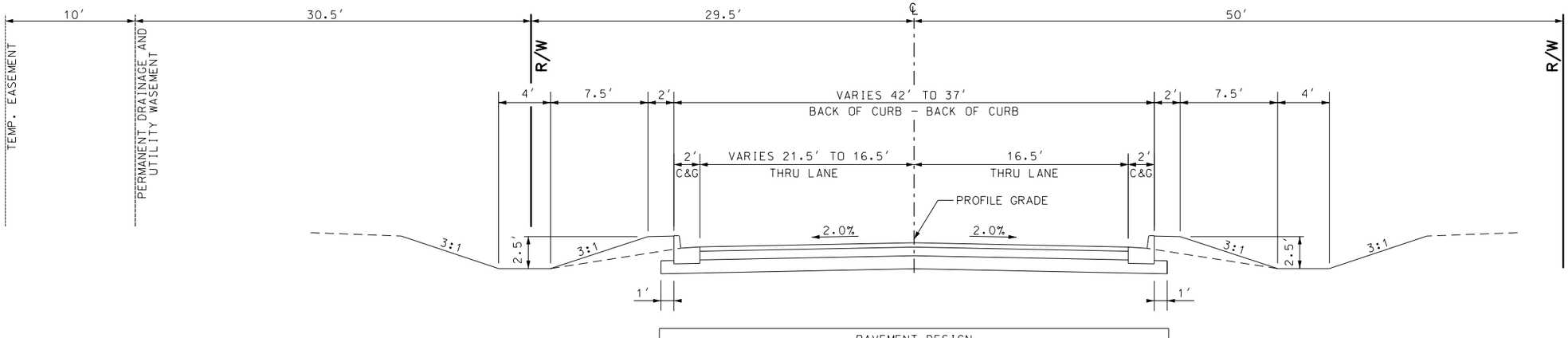
DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

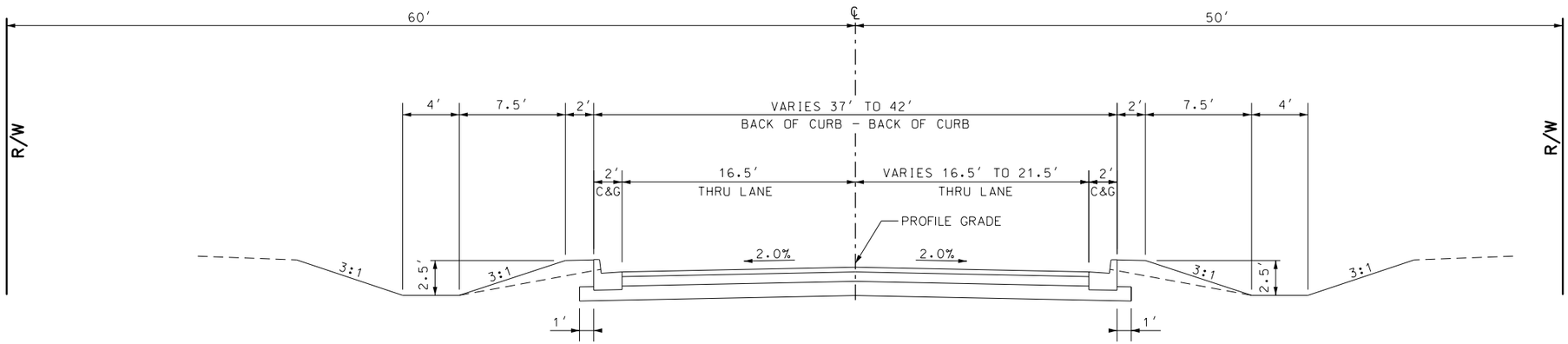
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.



PAVEMENT DESIGN			
BASE TYPE	ASPHALT DESIGN	PCCP DESIGN	SHOULDERS
6″ TYPE 5 AGGREGATE BASE	2″ BP-1 PG64-22 4″ BIT BASE PG64-22	6″ PCCP	C&G

HALE McGINTY DR.
STA. 146+86.00 TO STA. 147+61.00



PAVEMENT DESIGN			
BASE TYPE	ASPHALT DESIGN	PCCP DESIGN	SHOULDERS
6″ TYPE 5 AGGREGATE BASE	2″ BP-1 PG64-22 4″ BIT BASE PG64-22	6″ PCCP	C&G

HALE McGINTY DR.
STA. 153+28.74 TO STA. 154+03.74

✓ TYPICAL SECTIONS
SHEET 11 OF 17

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/14/2015
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. TS011
COUNTY NEWTON
JOB NO. J7P2178
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(33)
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

FINAL PLANS

REV.

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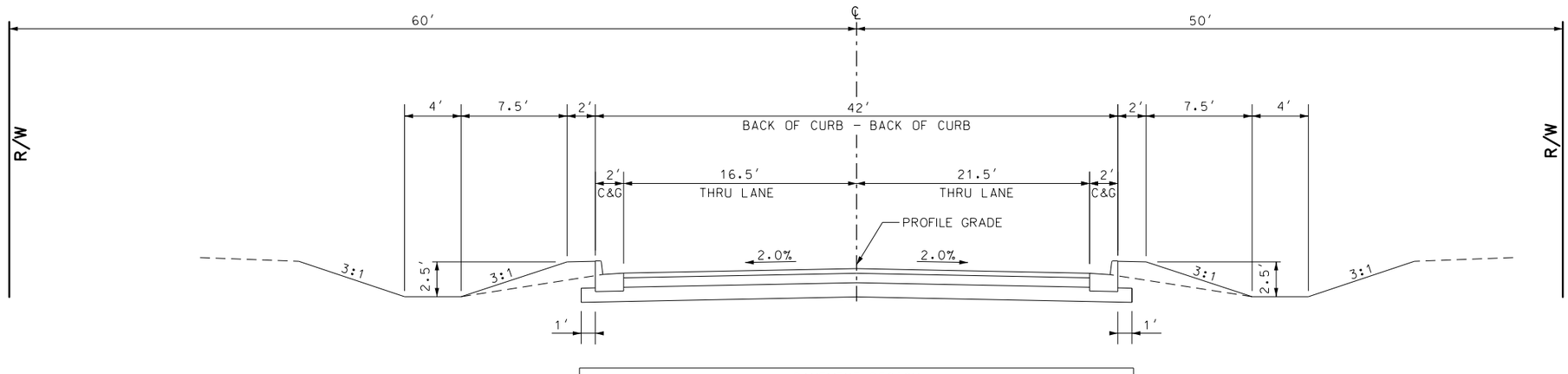
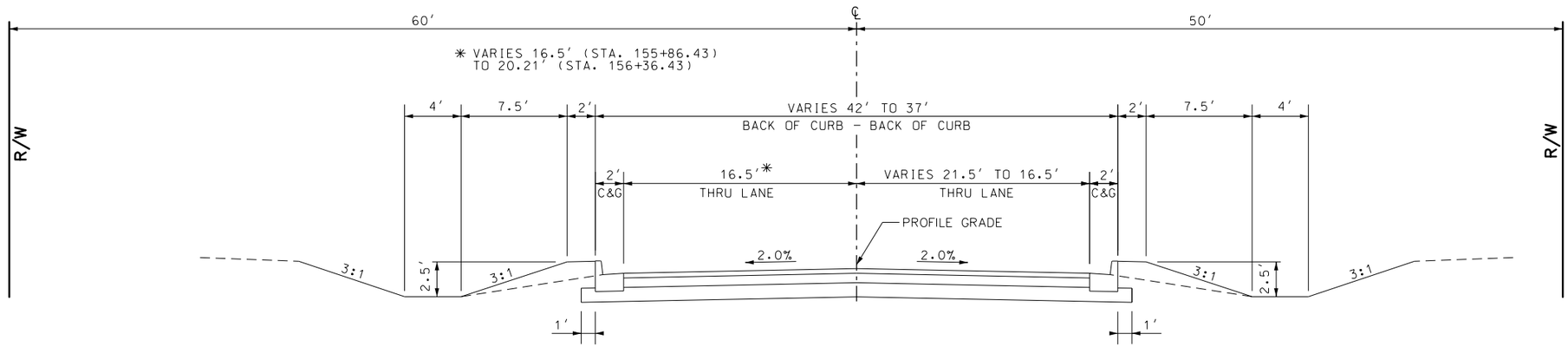


PAVEMENT DESIGN			
BASE TYPE	ASPHALT DESIGN	PCCP DESIGN	SHOULDERS
6" TYPE 5 AGGREGATE BASE	2" BP-1 PG64-22 4" BIT BASE PG64-22	6" PCCP	C&G

HALE McGINTY DR.
STA. 154+03.74 TO STA. 155+61.43



PAVEMENT DESIGN			
BASE TYPE	ASPHALT DESIGN	PCCP DESIGN	SHOULDERS
6" TYPE 5 AGGREGATE BASE	2" BP-1 PG64-22 4" BIT BASE PG64-22	6" PCCP	C&G

HALE McGINTY DR.
STA. 155+61.43 TO STA. 156+36.43

TYPICAL SECTIONS
SHEET 12 OF 17

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

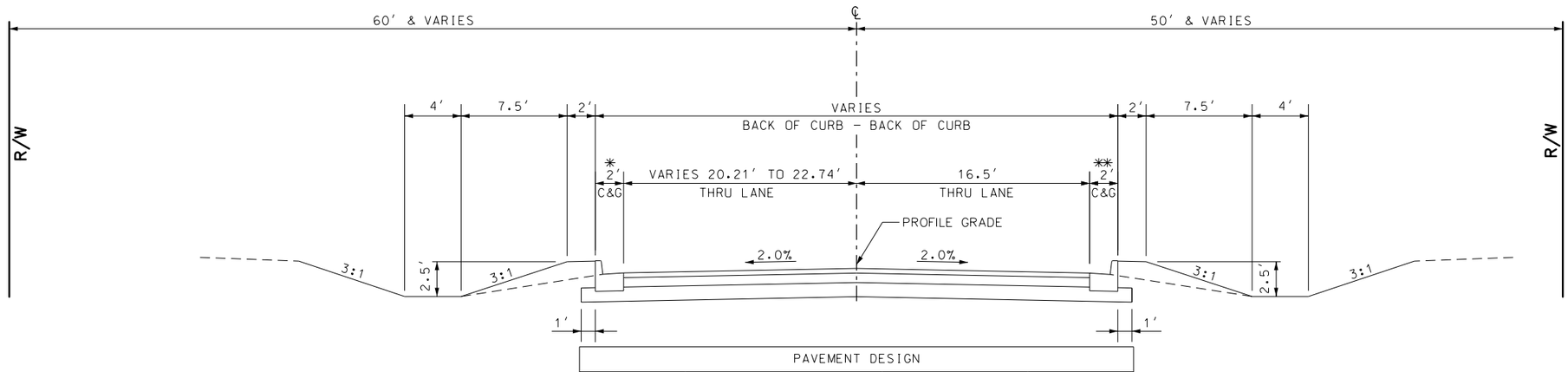
DATE PREPARED 12/14/2015
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. TS012
COUNTY NEWTON
JOB NO. J7P2178
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(33)
BRIDGE NO.

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

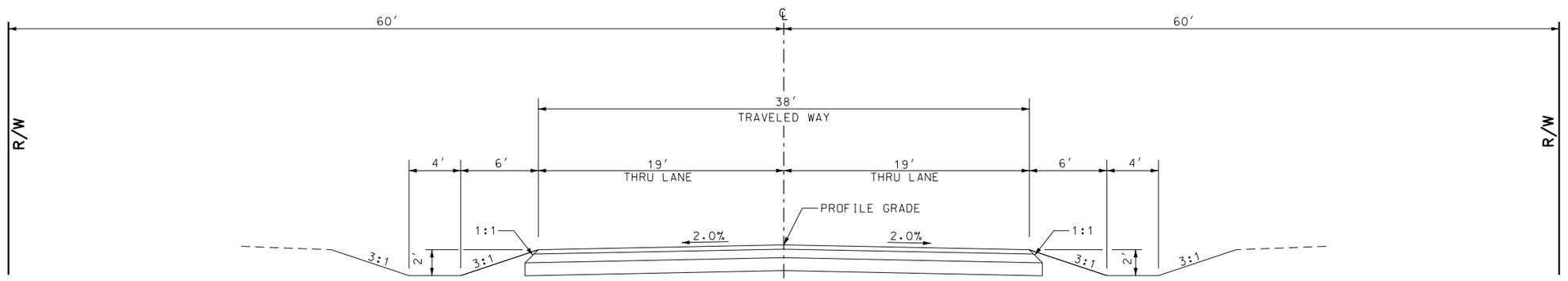


PAVEMENT DESIGN			
BASE TYPE	ASPHALT DESIGN	PCCP DESIGN	SHOULDERS
6″ TYPE 5 AGGREGATE BASE	2″ BP-1 PG64-22 4″ BIT BASE PG64-22	6″ PCCP	C&G

HALE McGINTY DR.
STA. 156+36.43 TO STA. 157+37.12

* LEFT CURB & GUTTER ENDS AT STA. 156+70.56

** RIGHT CURB & GUTTER ENDS AT STA. 156+59.12



PAVEMENT DESIGN		
BASE TYPE	ASPHALT DESIGN	PCCP DESIGN
6″ TYPE 5 AGGREGATE BASE	2″ BP-1 PG64-22 4″ BIT BASE PG64-22	6″ PCCP

ADAMS DR.
STA. 1+68.09 TO STA. 3+26.23

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/14/2015

ROUTE 60 | STATE MO

DISTRICT SW | SHEET NO. TS013

COUNTY NEWTON

JOB NO. J7P2178

CONTRACT ID. 150123-G01

PROJECT NO. FAF-60-1(33)

BRIDGE NO.

DESCRIPTION | DATE | REV.

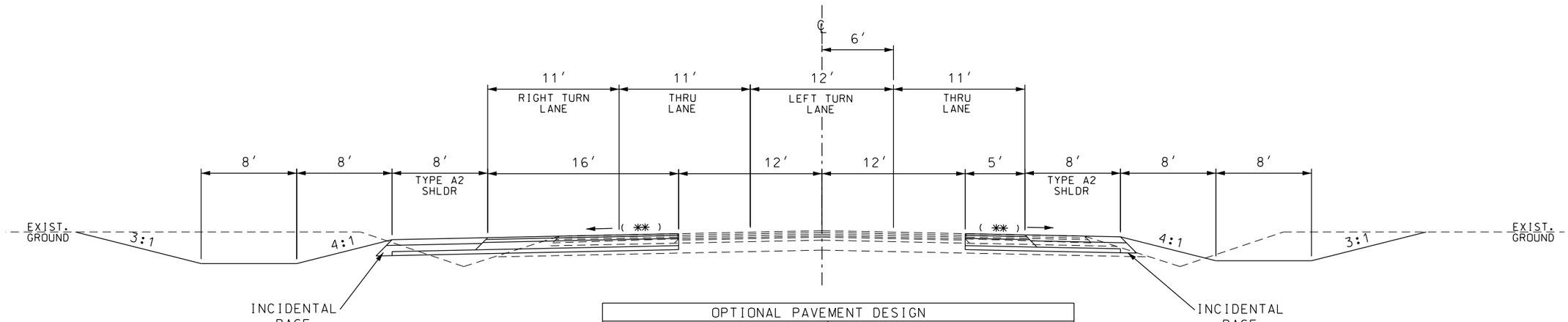
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

TYPICAL SECTIONS
SHEET 13 OF 17

FINAL PLANS

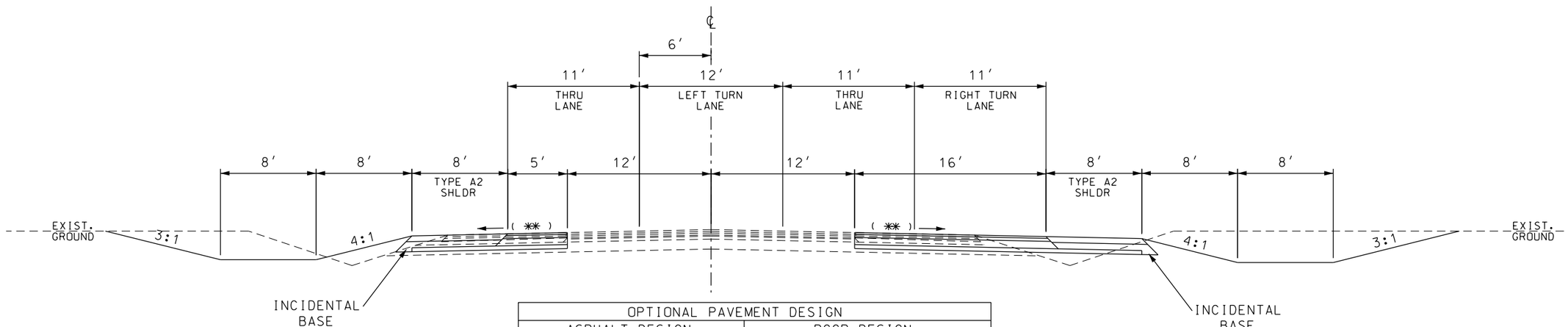


OPTIONAL PAVEMENT DESIGN	
ASPHALT DESIGN	PCCP DESIGN
1 3/4" SP125C PG64-22 3" SP250C PG64-22 7 1/4" SP250E PG64-22 4" TYPE 5 AGGREGATE BASE	9" PCCP (15' JOINTS 1 1/4" DOWELS) 4" TYPE 5 AGGREGATE BASE

ROUTE 60 – STA. 637+70.00 TO STA. 645+44.72

NOTE:

** MATCH EXISTING CROSS SLOPE



OPTIONAL PAVEMENT DESIGN	
ASPHALT DESIGN	PCCP DESIGN
1 3/4" SP125C PG64-22 3" SP250C PG64-22 7 1/4" SP250E PG64-22 4" TYPE 5 AGGREGATE BASE	9" PCCP (15' JOINTS 1 1/4" DOWELS) 4" TYPE 5 AGGREGATE BASE

ROUTE 60 – STA. 629+93.28 TO STA. 637+70.00

TYPICAL SHEET
SHEET 14 OF 17

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/14/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	TS014

COUNTY NEWTON

JOB NO. J7P2178

CONTRACT ID. 150123-G01

PROJECT NO. FAF-60-1(33)

BRIDGE NO.

DESCRIPTION	DATE

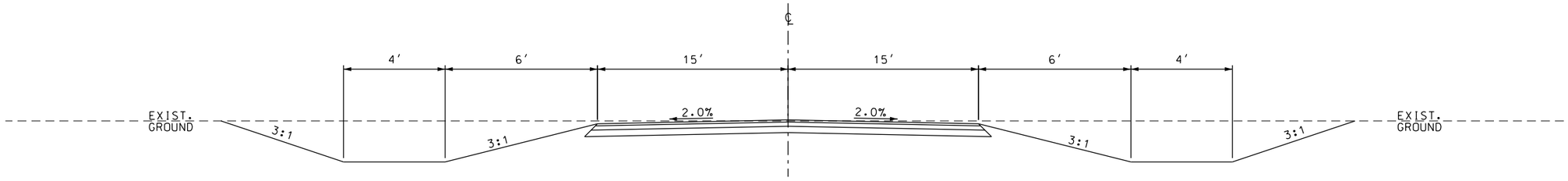
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

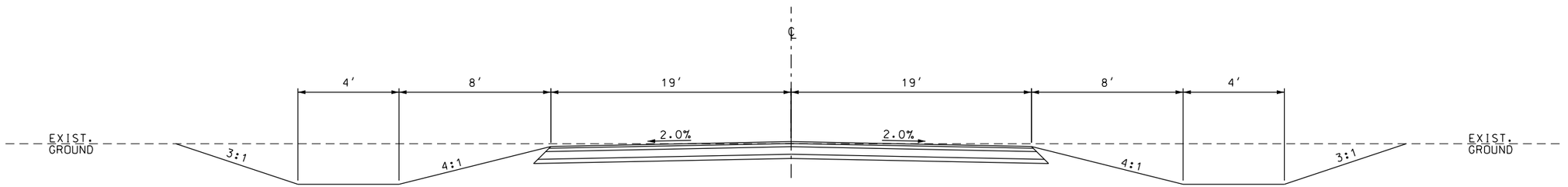
REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



OPTIONAL PAVEMENT DESIGN	
ASPHALT DESIGN	PCCP
2″ BP-1 PG64-22 4″ BIT BASE PG64-22 6″ TYPE 1 AGGREGATE BASE	6″ PCCP (15′ JOINTS 1 1/4″ DOWELS) 6″ TYPE 1 AGGREGATE BASE

ADAMS DRIVE SOUTH OF ROUTE 60
STA. 6+73.82 TO STA. 9+51.74



OPTIONAL PAVEMENT DESIGN	
ASPHALT DESIGN	PCCP DESIGN
1 3/4″ SP125C PG64-22 3″ SP250C PG64-22 7 1/4″ SP250E PG64-22 4″ TYPE 5 AGGREGATE BASE	9″ PCCP (15′ JOINTS 1 1/4″ DOWELS) 4″ TYPE 5 AGGREGATE BASE

ADAMS DRIVE NORTH OF ROUTE 60
STA. 3+26.16 TO STA. 4+88.00
ADAMS DRIVE SOUTH OF ROUTE 60
STA. 5+12.00 TO STA. 6+73.82

TYPICAL SHEET
SHEET 15 OF 17

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/14/2015
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. TS015
COUNTY NEWTON
JOB NO. J7P2178
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(33)
BRIDGE NO.

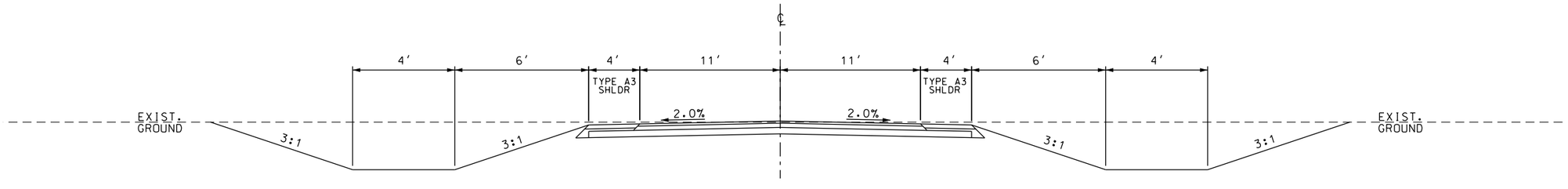
DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

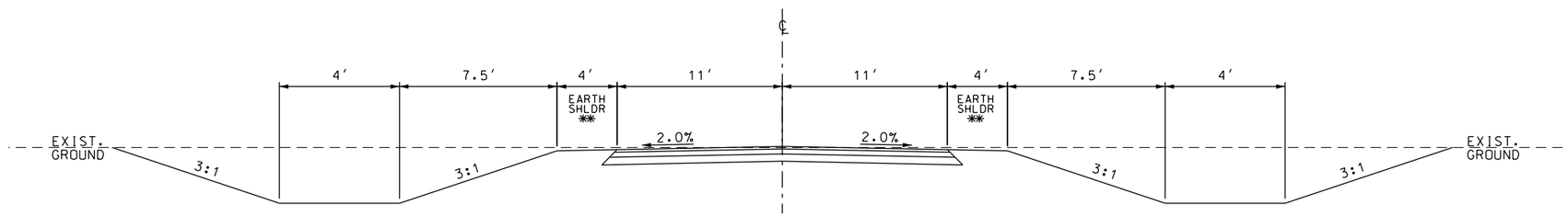
REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



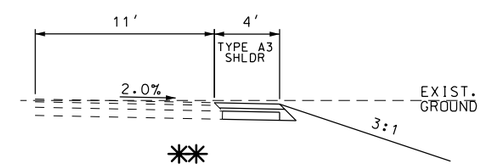
OPTIONAL PAVEMENT DESIGN	
ASPHALT DESIGN	PCCP
2″ BP-1 PG64-22 4″ BIT BASE PG64-22 6″ TYPE 1 AGGREGATE BASE	6″ PCCP (15′ JOINTS 1 1/4″ DOWELS) 6″ TYPE 1 AGGREGATE BASE

SOUTH OUTER ROAD STA. 9+50.74 TO STA. 25+60.00



OPTIONAL PAVEMENT DESIGN	
ASPHALT DESIGN	PCCP
2″ BP-1 PG64-22 4″ BIT BASE PG64-22 6″ TYPE 1 AGGREGATE BASE	6″ PCCP (15′ JOINTS 1 1/4″ DOWELS) 6″ TYPE 1 AGGREGATE BASE

SOUTH OUTER ROAD STA. 5+17.63 TO STA. 27+86.65



**
ADD ALTERNATE D
4′ A3 SHOULDER
STA. 5+17.63 TO STA. 27+90.54
LEFT AND RIGHT

✓ TYPICAL SHEET
SHEET 16 OF 17 ✓

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/14/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	TS016

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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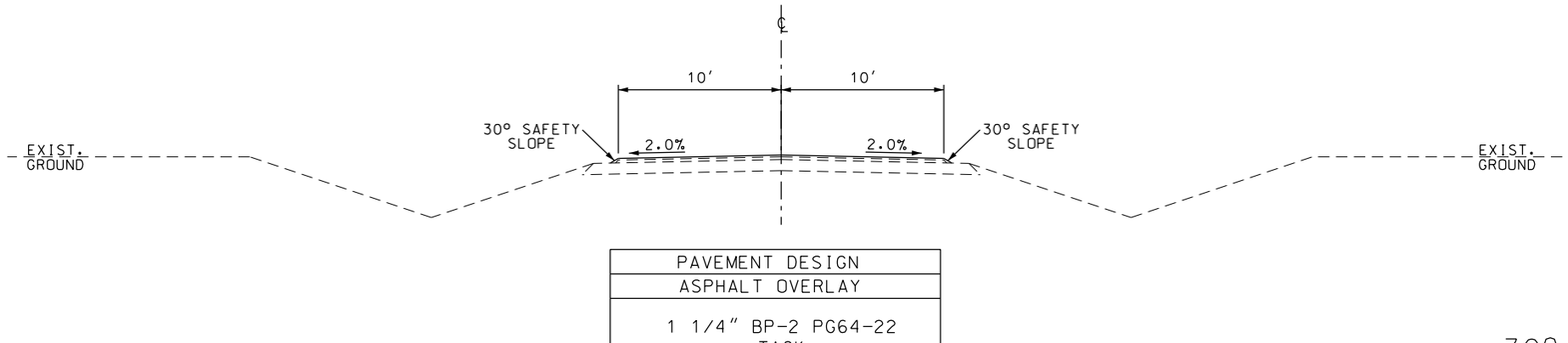
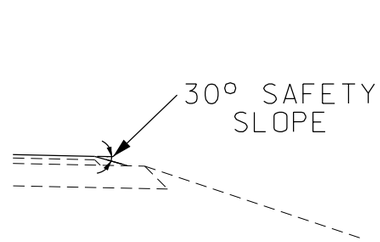


PAVEMENT DESIGN
ASPHALT OVERLAY
1 1/4" BP-2 PG64-22 TACK



INDUSTRIAL DRIVE RESURFACING
LOG MILE 0.692 TO LOG MILE 0.918

LOG MILE 0.692 INDUSTRIAL DRIVE = STA. 26+60.00 SOUTH OUTER ROAD

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/14/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	TS017

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TYPICAL SHEET
SHEET 17 OF 17

FINAL PLANS

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

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JERRY J. & LUCY M.
CHRISTIAN TRUST
BK. 356, PG. 10543

50' VARIABLE DEPTH MILLING

EXIST. R/W

KODIAK RD.

+32.57
11.00' LT
BEGIN TAPER

(RELOC)
STEEL X4

+93.59
15.96' LT
END TAPER

1

HAROLD MCCLELLAN
BK. 236, PG. 593
0.005 AC. TEMPORARY EASEMENT

SW4
26-25-32

SCALE
0 20 40 60

50' VARIABLE DEPTH MILLING

NORWAY RD.

S 84° 32' 12" E

(UIP)

CL8

CL6

SL25

SIGN

FIELD DO NOT ENTER

STOP AHEAD

STOP

WITNESSPOST

MONUMENT DNR US 216

SECTION 26
SECTION 35

EXIST. R/W

+17.22 R2
16.50' LT
24" GR. B PIPE

+92.22 R2
16.50' LT
BEGIN TAPER

WALDO HATLER MEMORIAL DR.
S 89° 14' 36" E

℄ KODIAK RD.
STA. 301+56.82 =
℄ NORWAY RD.
STA. 203+23.19 =
℄ WALDO HATLER MEMORIAL DR.
STA. 301+56.82 R2

MATCHLINE STA. 304+00

+58.46
11.00' RT
BEGIN TAPER

+86.22
15.27' RT
END TAPER
R=30'

℄ KODIAK RD.
STA. 301+56.82 =
℄ NORWAY RD.
STA. 203+16.44

(RELOC BY OTHERS)

CONC. BROOK

NEW R/W

R=45'

+20.68
16.48' LT
END TAPER

+14.74 R2
21.73' RT
BEGIN TAPER

NE4
34-25-32

NW4
35-25-32

TYPE I DRWY. RT.
302+95.21 R2
15' WIDE
18" X 26'
GR. B PIPE
SURFACE GRAVEL
+95.83 R2
16.43' RT

PARRIAN A. &
EDNA M. JEFFRIES
BK. 233, PG. 613

BEGIN PROJECT
STA. 201+58.46

2

JERRY DEAN LANE - BETTY JEAN LANE
BK. 217, PG. 527
0.023 AC. NEW R/W
3.736 AC. REMAINING

SECTION 34
SECTION 35

+30.55
10.99' LT
BEGIN TAPER

S 1° 14' 45" W

EXIST. PVMT.

1.206.68 1.206.68 1.206.60 1.206.56 1.206.59 1.206.64 1.206.69 1.206.73 1.206.87 1.206.88 1.206.87 1.206.83 1.206.92 1.207.02 1.207.09 1.207.15 1.207.22 1.207.31 1.207.40 1.207.55 1.207.72 1.207.89

1210
1205
1200

202 203 302 303

MATCHLINE
STA. 304+00

PLAN & PROFILE
WALDO HATLER MEMORIAL DR. AT
INTERSECTION WITH KODIAK RD.

FINAL PLANS

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

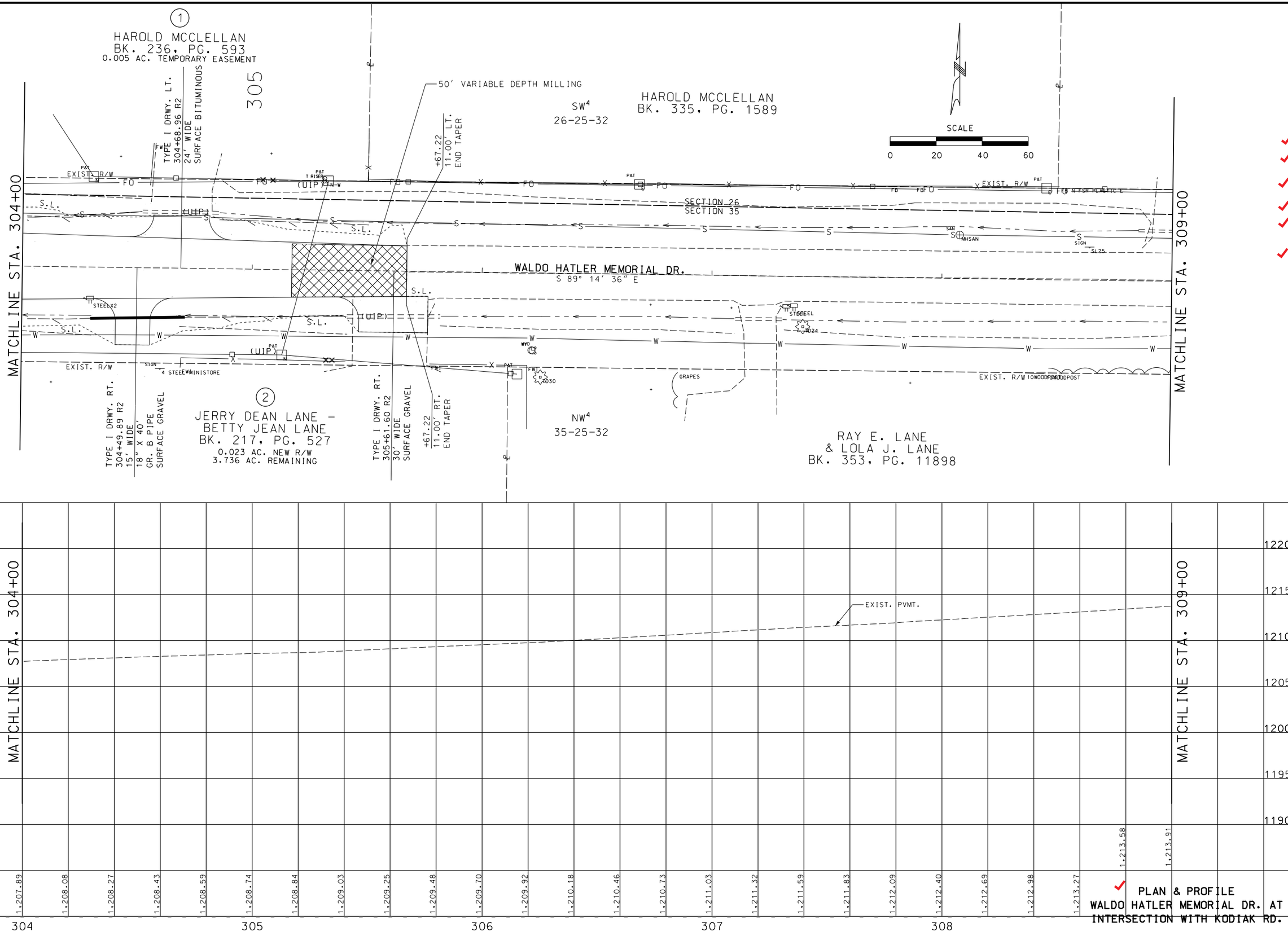
DATE PREPARED	12/18/2015
ROUTE	60
STATE	MO
DISTRICT	SW
SHEET NO.	PP001
COUNTY	NEWTON
JOB NO.	J7P2178
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(33)
BRIDGE NO.	

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.



PLAN & PROFILE
WALDO HATLER MEMORIAL DR. AT
INTERSECTION WITH KODIAK RD.

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	12/18/2015
ROUTE	60
STATE	MO
DISTRICT	SW
SHEET NO.	PP002
COUNTY	NEWTON
JOB NO.	J7P2178
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(33)
BRIDGE NO.	

DESCRIPTION | DATE

FINAL PLANS

REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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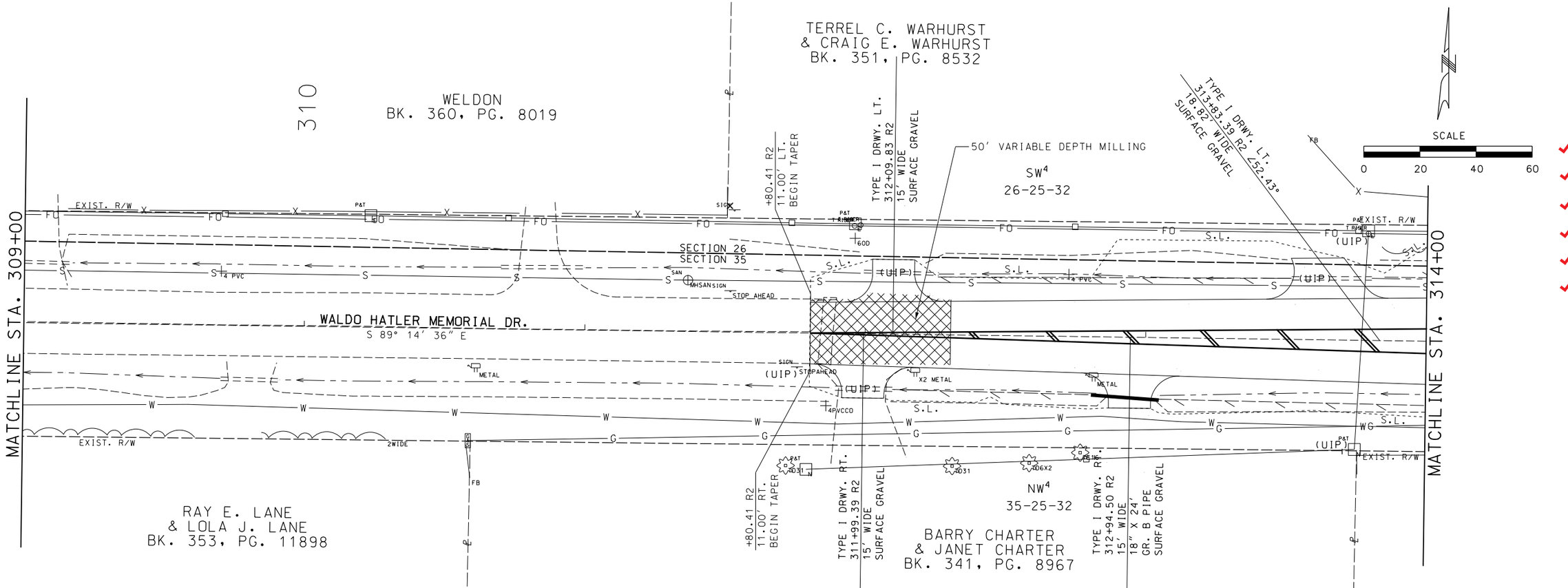

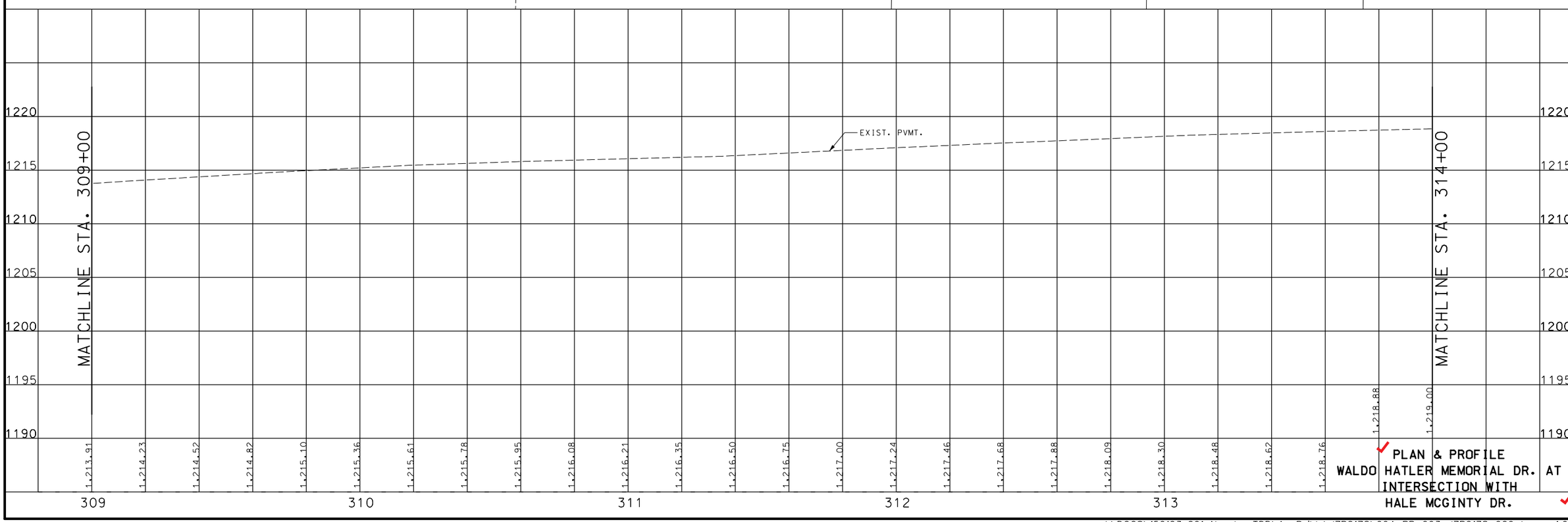

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	12/17/2015
ROUTE	60
STATE	MO
DISTRICT	SW
SHEET NO.	PP003
COUNTY	NEWTON
JOB NO.	J7P2178
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(33)
BRIDGE NO.	

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PLAN & PROFILE
WALDO HATLER MEMORIAL DR. AT
INTERSECTION WITH
HALE MCGINTY DR.

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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TERREL C. WARHURST
& CRAIG E. WARHURST
BK. 351, PG. 8532

TODD ALAN PHILLIPS
& STACEY L. PHILLIPS
BK. 356, PG. 10155

EDMONDSON
BK. 350, PG. 934

SW4
26-25-32

℄ WALDO HATLER MEMORIAL DR.
STA. 315+05.52 R2 =
℄ HALE MCGINTY DR.
STA. 120+00.00

315

TYPE I DRWY. LT.
315+11.31 R2
15' WIDE
SURFACE GRAVEL

TYPE I DRWY. LT.
318+70.79 R2
24' WIDE
SURFACE GRAVEL

TYPE I DRWY. LT.
318+15.60 R2
15' WIDE
SURFACE GRAVEL

SCALE
0 20 40 60

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

MATCHLINE STA. 314+00

+55.30 R2
16.50' LT
END TAPER

+55.53 R2
16.50' LT
BEGIN TAPER

+30.42 R2
11.00' LT
END TAPER

SECTION 26
SECTION 35

WALDO HATLER MEMORIAL DR.
S 89° 14' 36" E

120

+55.00 R2
16.49' RT
END TAPER

(RELOC BY OTHERS)

EXIST. 15" CMP

CP 60D NAIL

18" GR. B PIPE

15" CMP

+55.53 R2
16.50' RT
BEGIN TAPER

+11.17 R2
16.50' RT

+30.42 R2
11.00' RT
END TAPER

HALE MCGINTY DR.

S 1° 07' 50" W

NW4
35-25-32

+51.83
15.88' RT
HALE MCGINTY DR.

+59.99 R2
25.50' RT

NEW R/W

VARIABLE DEPTH MILLING AND OVERLAY

50' VARIABLE DEPTH MILLING

RAWLINS
BK. 355, PG. 6536
0.01 NEW R/W
0.20 REMAINING

+39.07
25.87' LT
HALE MCGINTY DR.

+72.03
22.00' LT
HALE MCGINTY DR.

MATCHLINE STA. 121+00

NW4
35-25-32

3

LARRY NEFF DEVELOPMENT
& MANAGEMENT
BK. 350, PG. 10889
0.043 AC. NEW R/W
6.751 AC. REMAINING

END PROJECT
STA. 319+30.42

EXIST. PVMT.

MATCHLINE STA. 314+00

1220 1215 1210 1205 1200

1,219.00 1,219.14 1,219.30 1,219.43 1,219.54 1,219.65 1,219.74 1,219.77 1,219.71 1,219.74 1,219.77 1,219.69 1,219.55 1,219.41 1,219.27 1,219.13 1,218.99 1,218.86 1,218.73 1,218.61 1,218.50 1,218.39 1,218.28 1,218.17 1,218.06 1,217.92 1,217.72

314 315 316 317 318

PLAN & PROFILE
WALDO HATLER MEMORIAL DR. AT
INTERSECTION WITH
HALE MCGINTY DR.

FINAL PLANS

DATE PREPARED
12/17/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	PP004

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.

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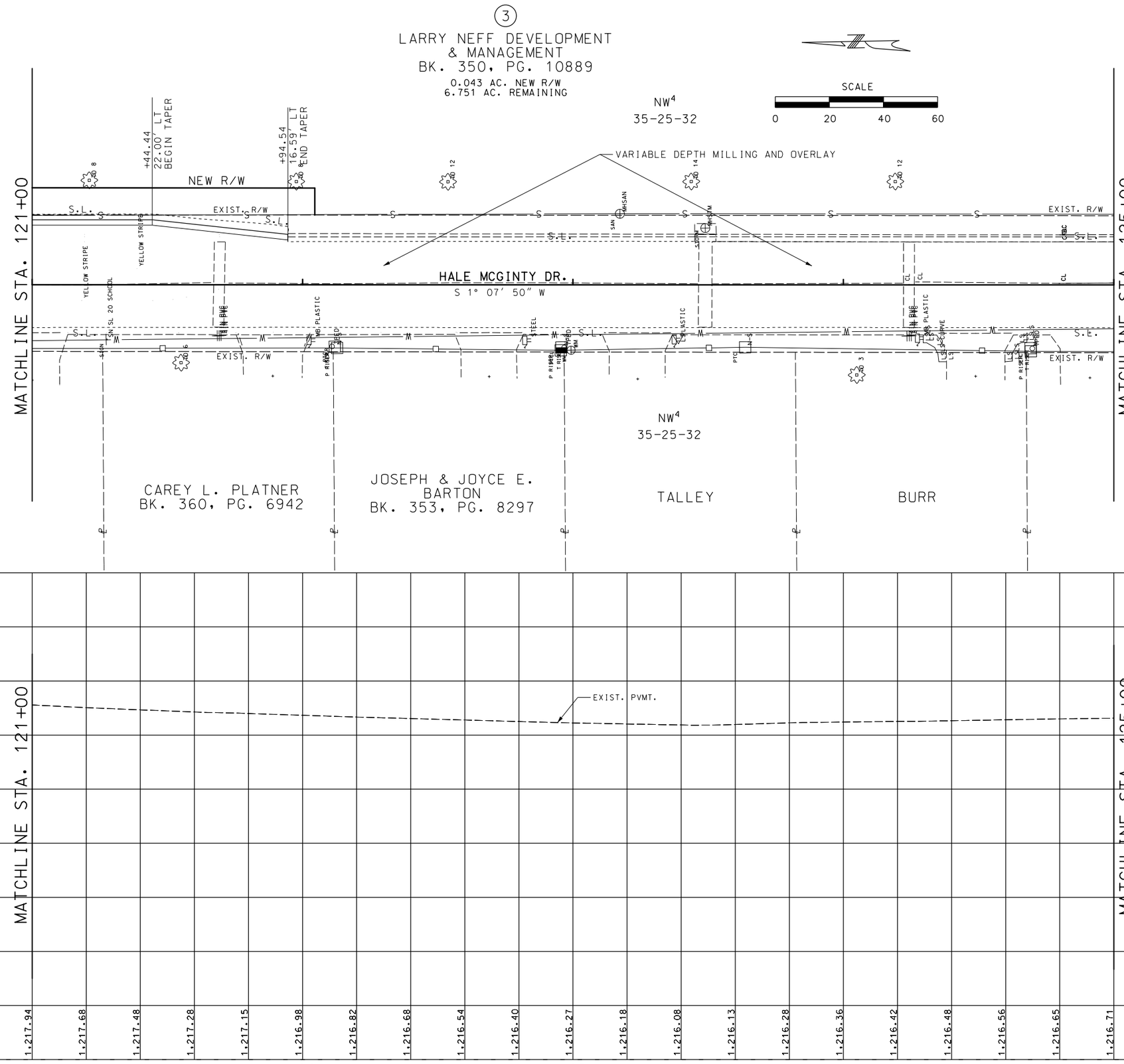

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/17/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	PP005

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PLAN & PROFILE
HALE MCGINTY DR.
STA. 121+00 TO STA. 125+00

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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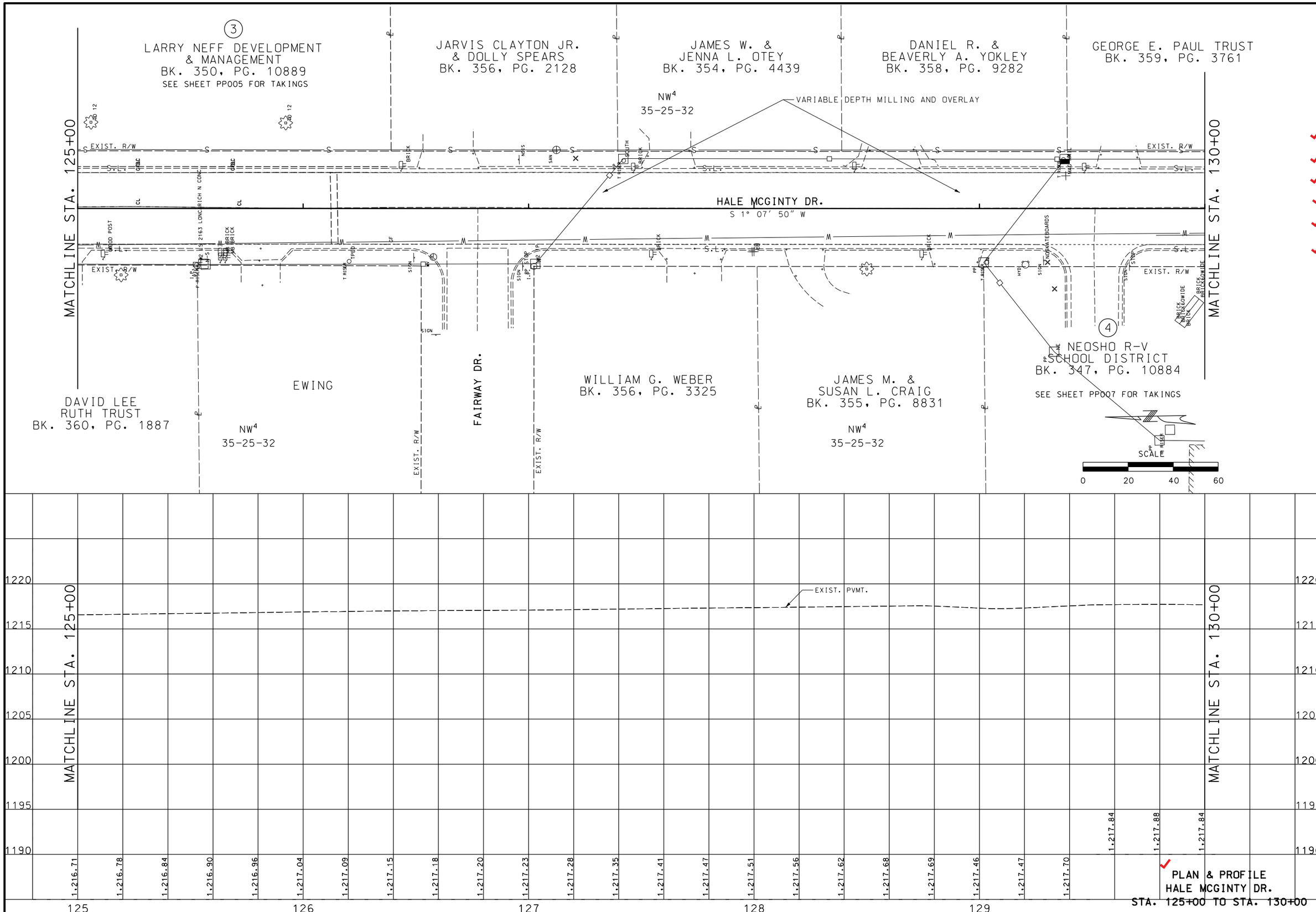

PLAN & PROFILE
HALE MCGINTY DR.
STA. 125+00 TO STA. 130+00

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	12/14/2015
ROUTE	60
STATE	MO
DISTRICT	SW
SHEET NO.	PP006
COUNTY	NEWTON
JOB NO.	J7P2178
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(33)
BRIDGE NO.	

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

FINAL PLANS

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

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GEORGE E. PAUL TRUST
BK. 359, PG. 3761

ANGELA P. MCCAULEY
BK. 353, PG. 7702

MARION SINK
BK. 359, PG. 7303

NW4
35-25-32

(5)
LARRY NEFF
DEVELOPMENT & MANAGEMENT
BK. 350, PG. 10889
0.095 AC. NEW R/W
0.066 AC. TEMPORARY EASEMENT
0.681 AC. PERMANENT DRAINAGE AND UTILITY EASEMENT
5.652 AC. REMAINING

SCALE
0 20 40 60

PERMANENT DRAINAGE & UTILITY EASEMENT

+55.00 BEGIN 4' FLAT BOTTOM DITCH LT.

+36.16 16.50' LT

MATCHLINE STA. 130+00

MATCHLINE STA. 135+00

EXIST. R/W

S.L.

4' FBD

STA. 131+36.16
BEGIN FULL DEPTH PAVEMENT

HALE MCGINTY DR.
S 1° 07' 50" W

SEE SPECIAL SHEETS FOR WATER LINE LOCATION

16.5'

VARIABLE DEPTH MILLING AND OVERLAY

+36.16 16.50' RT BEGIN MOUNTABLE CURB

+03.91 16.50' RT END MOUNTABLE CURB, BEGIN 6" CURB & GUTTER

EMERGENCY ACCESS

T.C.E.

ASPHALT PAVEMENT LOT

IMPROVEMENTS TO BE CONSTRUCTED UNDER SEPARATE CONTRACT J703068

(4)
NEOSHO R-V
SCHOOL DISTRICT
BK. 347, PG. 10884
0.146 AC. NEW R/W
2.534 AC. TEMPORARY EASEMENT
31.845 AC. REMAINING

NW4
35-25-32

T.C.E.

EL 1.217.45

VPI 133+07.69
EL 1.217.06

-0.23% -1.00%

PROP. GRADE

EXIST. GROUND

VPC 132+57.28

VPT 133+58.10

100.82' V.C.

1.217.84 1.217.79 1.217.75 1.217.58 1.217.52 1.217.53 1.217.49 1.217.44 1.217.44 1.217.38 1.217.40 1.217.32 1.217.35 1.217.25 1.217.30 1.217.00 1.217.26 1.216.69 1.217.21 1.216.39 1.217.16 1.215.97 1.217.10 1.215.68 1.217.00 1.215.47 1.216.88 1.215.24 1.216.42 1.215.04 1.216.53 1.214.85 1.216.33 1.214.60 1.216.13 1.214.35 1.215.93 1.214.09 1.215.73 1.213.82 1.215.53 1.213.54 1.215.33 1.213.37 1.215.13

130 131 132 133 134

PLAN & PROFILE
HALE MCGINTY DR.
STA. 130+00 TO STA. 135+00

FINAL PLANS

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/17/2015
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. PP007
COUNTY NEWTON
JOB NO. J7P2178
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(33)
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

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(5)
LARRY NEFF
DEVELOPMENT & MANAGEMENT
BK. 350, PG. 10889
SEE SHEET PP007 FOR TAKINGS

NW4
35-25-32

SCALE
0 20 40 60

PERMANENT DRAINAGE & UTILITY EASEMENT

MATCHLINE STA. 135+00

MATCHLINE STA. 140+00

S.L.
4' FBD
EXIST. R/W
2'
16.5'
16.5'
2'
HALE MCGINTY DR.
S 1° 07' 50" W
12" GR. B PIPE
SEE SPECIAL SHEETS FOR WATERLINE RELOCATION
NEW R/W
139+02.72
28' WIDE
25' RADIUS
T.C.E.
IMPROVEMENTS TO BE CONSTRUCTED UNDER SEPARATE CONTRACT J703068

NW4
35-25-32

(4)
NEOSHO R-V
SCHOOL DISTRICT
BK. 347, PG. 10884
SEE SHEET PP007 FOR TAKINGS

PROP. GRADE
EXIST. GROUND
SPECIAL DITCH LT
SPECIAL DITCH RT
VPI 138+48.74
EL 1.208.66
VPI 139+50.00
EL 1.208.30
VPC 139+98.89
-2.34%
-2.54%
-0.39%

135	136	137	138	139
1.213.37 / 1.215.13	1.213.21 / 1.214.93	1.213.12 / 1.214.73	1.213.09 / 1.214.53	1.213.07 / 1.214.33
1.212.82 / 1.214.13	1.212.49 / 1.213.93	1.212.09 / 1.213.73	1.211.86 / 1.213.53	1.211.64 / 1.213.33
1.211.39 / 1.213.13	1.211.15 / 1.212.93	1.210.90 / 1.212.73	1.210.66 / 1.212.53	1.210.55 / 1.212.33
1.210.43 / 1.212.13	1.210.32 / 1.211.93	1.210.23 / 1.211.73	1.210.11 / 1.211.53	1.209.99 / 1.211.33
1.209.90 / 1.211.13	1.209.88 / 1.210.93	1.209.87 / 1.210.73	1.209.85 / 1.210.53	1.209.89 / 1.210.33
1.209.98 / 1.210.13				

1220 1215 1210 1205 1200

PLAN & PROFILE
HALE MCGINTY DR.
STA. 135+00 TO STA. 140+00

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/18/2015
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. PP008
COUNTY NEWTON
JOB NO. J7P2178
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(33)
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

FINAL PLANS

REV.

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SCALE
0 20 40 60

(5)
LARRY NEFF
DEVELOPMENT & MANAGEMENT
BK. 350, PG. 10889

NW4
35-25-32

SEE SHEET PP007 FOR TAKINGS

T.C.E.
PERMANENT DRAINAGE & UTILITY EASEMENT
S.L.
4' FBD
EXIST. R/W
2'
16.5'
16.5'
2'
18" GR. B PIPE
HALE MCGINTY DR.
S 1° 07' 50" W
+32.73
16.50' RT
+29.73
16.50' RT
R 35'
R 35'
NEW R/W
T.C.E.
T.C.E. NW4
35-25-32
+67.73
51.50' RT
+94.73
51.50' RT
DUSTY LN.
+34.64
16.50' LT
BEGIN TAPER
PC STA 144+84.64
+84.64
16.50' RT
MATCHLINE STA. 140+00
MATCHLINE STA. 145+00

(4)
NEOSHO R-V
SCHOOL DISTRICT
BK. 347, PG. 10884
SEE SHEET PP007 FOR TAKINGS

(6)
LARRY LANE
LANE ESTATES
BK. 353, PG. 11898
0.086 AC. NEW R/W
0.056 AC. TEMPORARY EASEMENT
7.322 AC. REMAINING

(7)
RAY E. LANE &
LOLA J. LANE
BK. 353, PG. 11898
0.058 AC. NEW R/W
4.951 AC. REMAINING

200.00' V.C.
1,070.00' V.C.
VPI 140+98.89
EL 1,209.14
VPI 140+98.89
EL 1,207.31
VPC 141+89.82
VPT 141+98.89
VPI 142+30.00
EL 1,207.20
VPI 143+30.00
EL 1,209.97
-1.00%
+1.00%
-0.50%
0.28%
-0.39%
+2.71%
+2.71%
-0.30%
PROP. GRADE
EXIST. GROUND
SPECIAL DITCH RT
SPECIAL DITCH LT

1220 1215 1210 1205 1200 1195 1190 1185

1.209.98 1.210.13 | 1.210.03 1.209.95 | 1.210.04 1.209.82 | 1.210.01 1.209.72 | 1.210.07 1.209.66 | 1.209.94 1.209.64 | 1.209.81 1.209.67 | 1.209.77 1.209.73 | 1.209.82 1.209.83 | 1.209.92 1.209.97 | 1.210.06 1.210.15 | 1.210.19 1.210.35 | 1.210.35 1.210.54 | 1.210.57 1.210.72 | 1.210.43 1.210.89 | 1.210.57 1.211.06 | 1.210.44 1.211.22 | 1.210.26 1.211.37 | 1.210.36 1.211.51 | 1.210.43 1.211.65 | 1.210.48 1.211.78 | 1.210.53 1.211.90 | 1.210.42 1.212.02 | 1.210.26 1.212.12 | 1.210.07 1.212.22 | 1.210.32 1.212.31

140 141 142 143 144

PLAN & PROFILE
HALE MCGINTY DR.
STA. 140+00 TO STA. 145+00

FINAL PLANS

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/18/2015
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. PP009
COUNTY NEWTON
JOB NO. J7P2178
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(33)
BRIDGE NO.

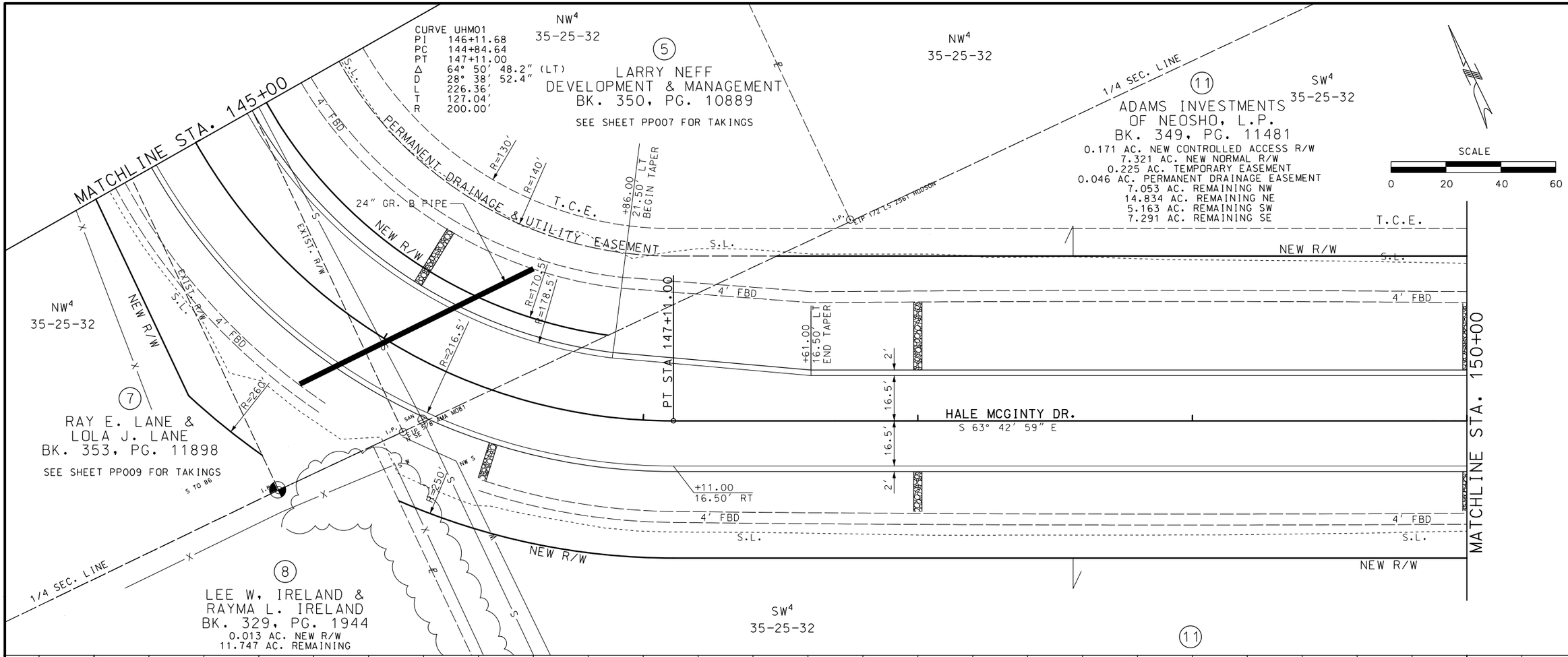
DESCRIPTION | DATE

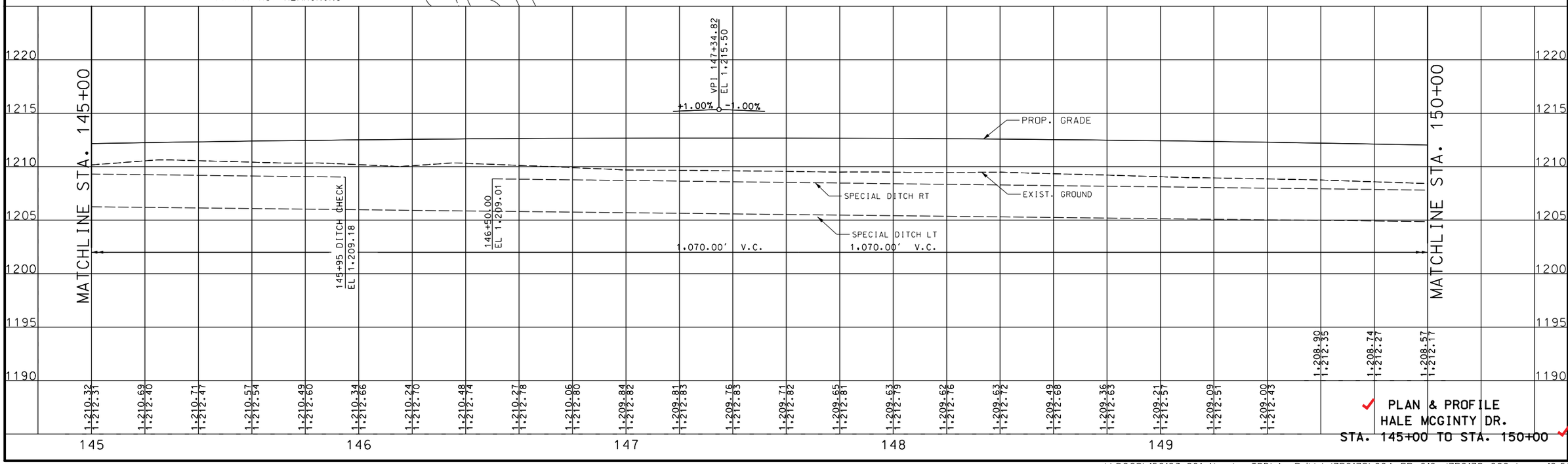
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

J:\DOCS\150123-G01_Neosho_TDD\As_Builds\J7P2178\004_PP_009_J7P2178_020.dgn 10:51:14 AM 12/18/2015





PLAN & PROFILE
HALE MCGINTY DR.
STA. 145+00 TO STA. 150+00

FINAL PLANS

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/18/2015
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. PP010
COUNTY NEWTON
JOB NO. J7P2178
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(33)
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

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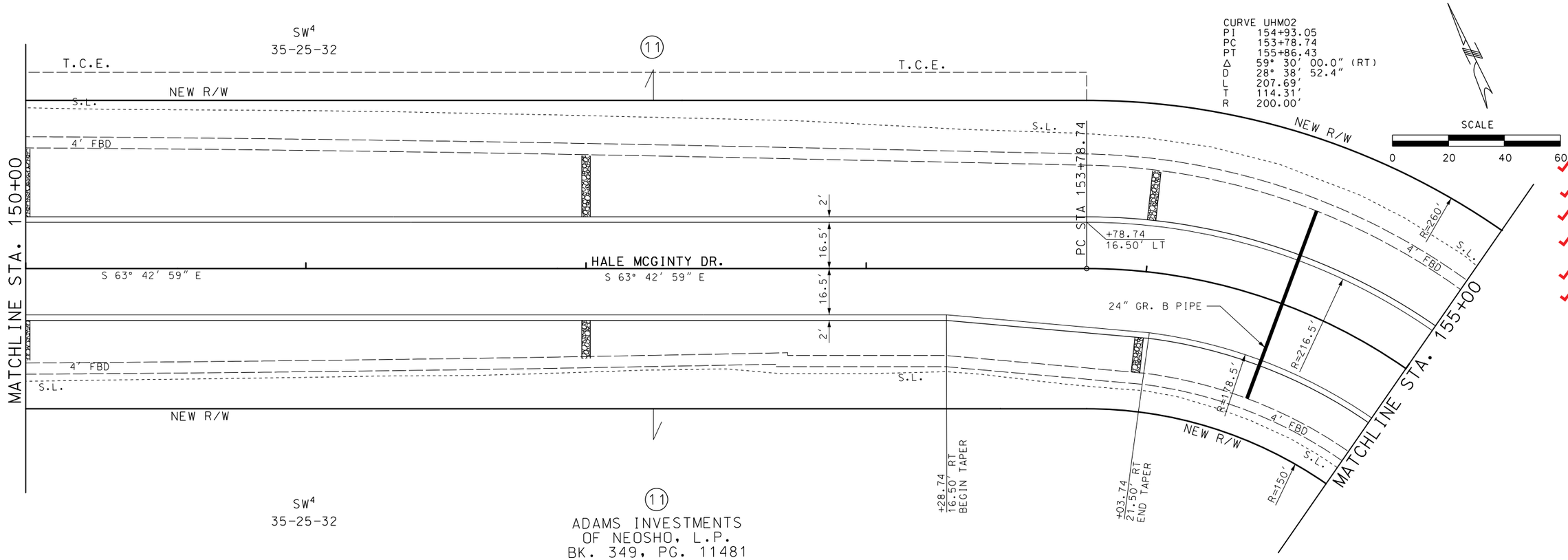

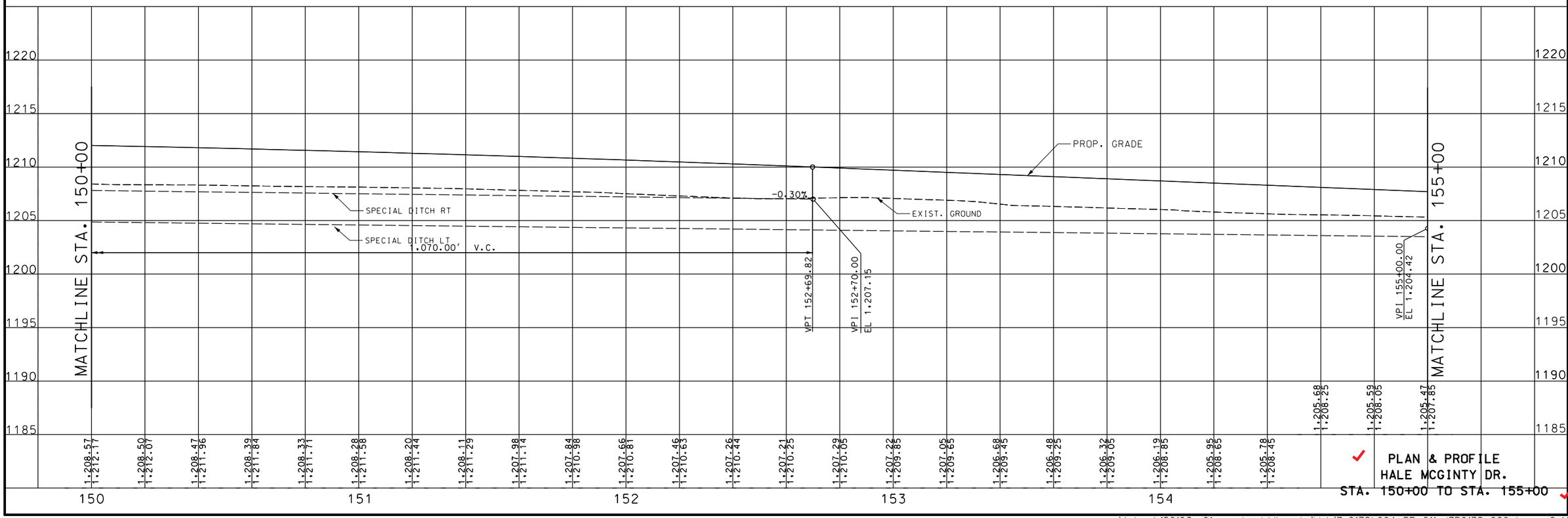

PLAN & PROFILE
HALE MCGINTY DR.
STA. 150+00 TO STA. 155+00

FINAL PLANS

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	12/14/2015
ROUTE 60	STATE MO
DISTRICT SW	SHEET NO. PP011
COUNTY	NEWTON
JOB NO.	J7P2178
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(33)
BRIDGE NO.	

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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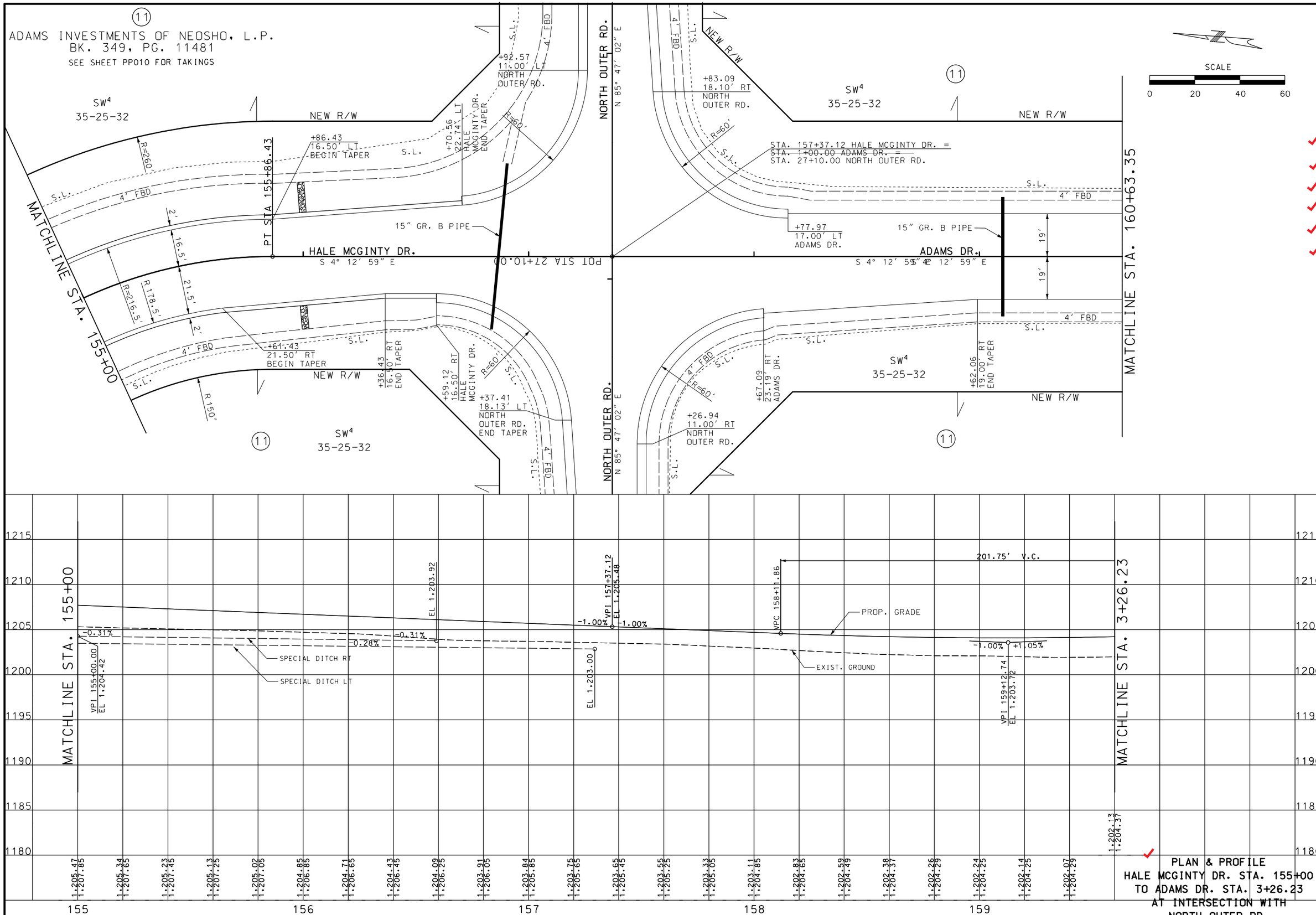

PLAN & PROFILE
HALE MCGINTY DR. STA. 155+00
TO ADAMS DR. STA. 3+26.23
AT INTERSECTION WITH
NORTH OUTER RD.

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	12/14/2015
ROUTE	60
STATE	MO
DISTRICT	SW
SHEET NO.	PP012
COUNTY	NEWTON
JOB NO.	J7P2178
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(33)
BRIDGE NO.	

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

FINAL PLANS

REV.

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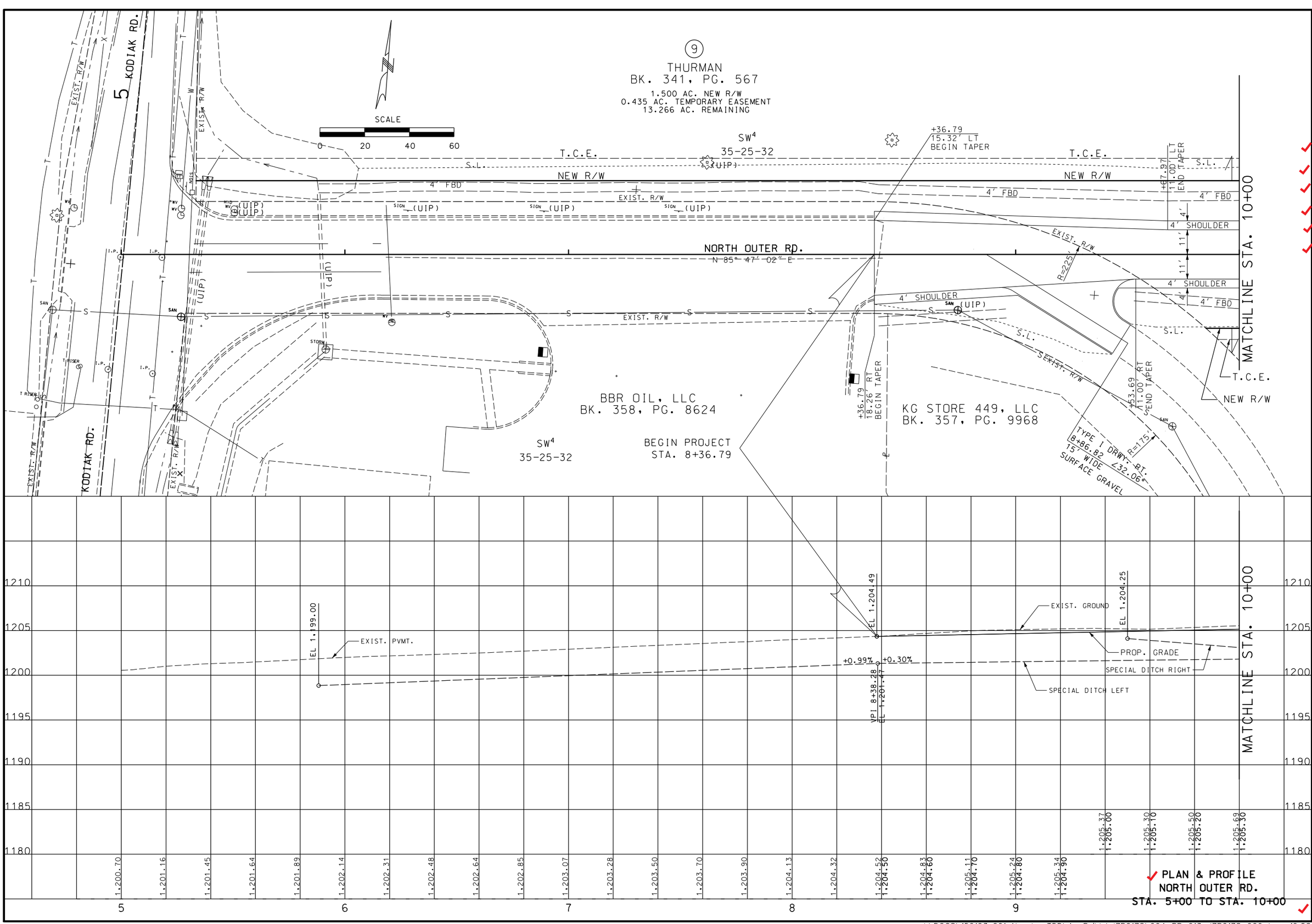

PLAN & PROFILE
NORTH OUTER RD.
STA. 5+00 TO STA. 10+00

FINAL PLANS

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	12/18/2015
ROUTE	60
STATE	MO
DISTRICT	SW
SHEET NO.	PP013
COUNTY	NEWTON
JOB NO.	J7P2178
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(33)
BRIDGE NO.	

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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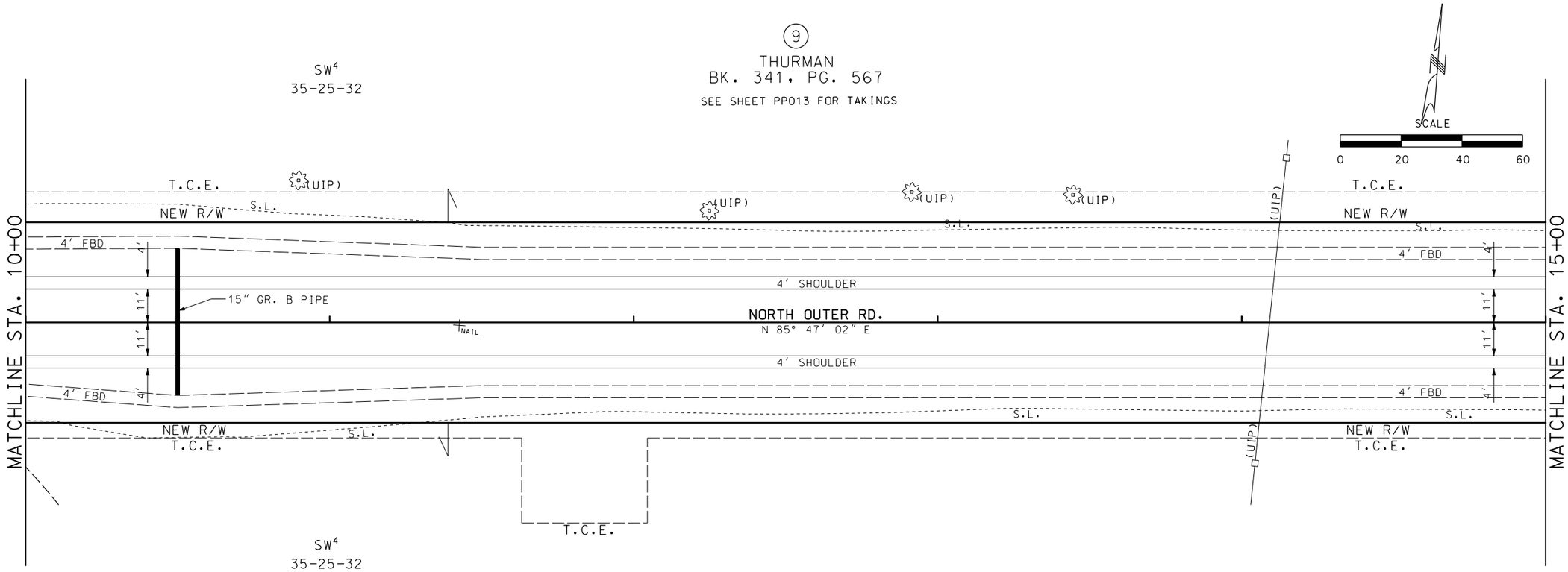

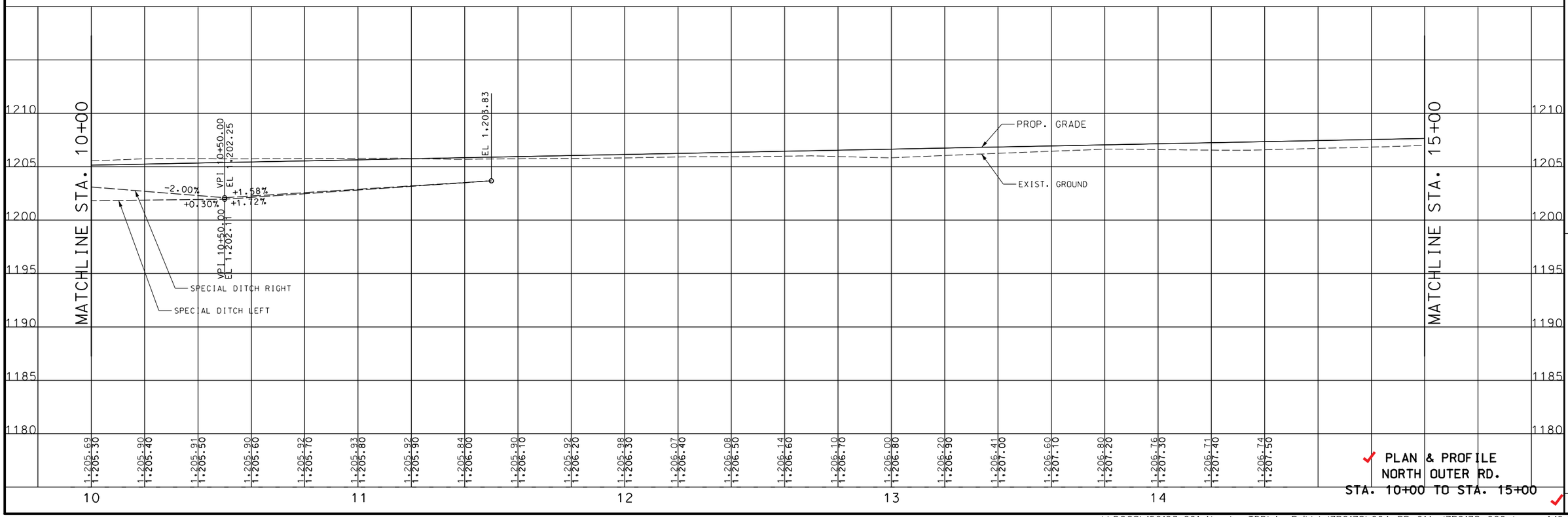

PLAN & PROFILE
NORTH OUTER RD.
STA. 10+00 TO STA. 15+00

FINAL PLANS

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/18/2015
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. PP014
COUNTY NEWTON
JOB NO. J7P2178
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(33)
BRIDGE NO.

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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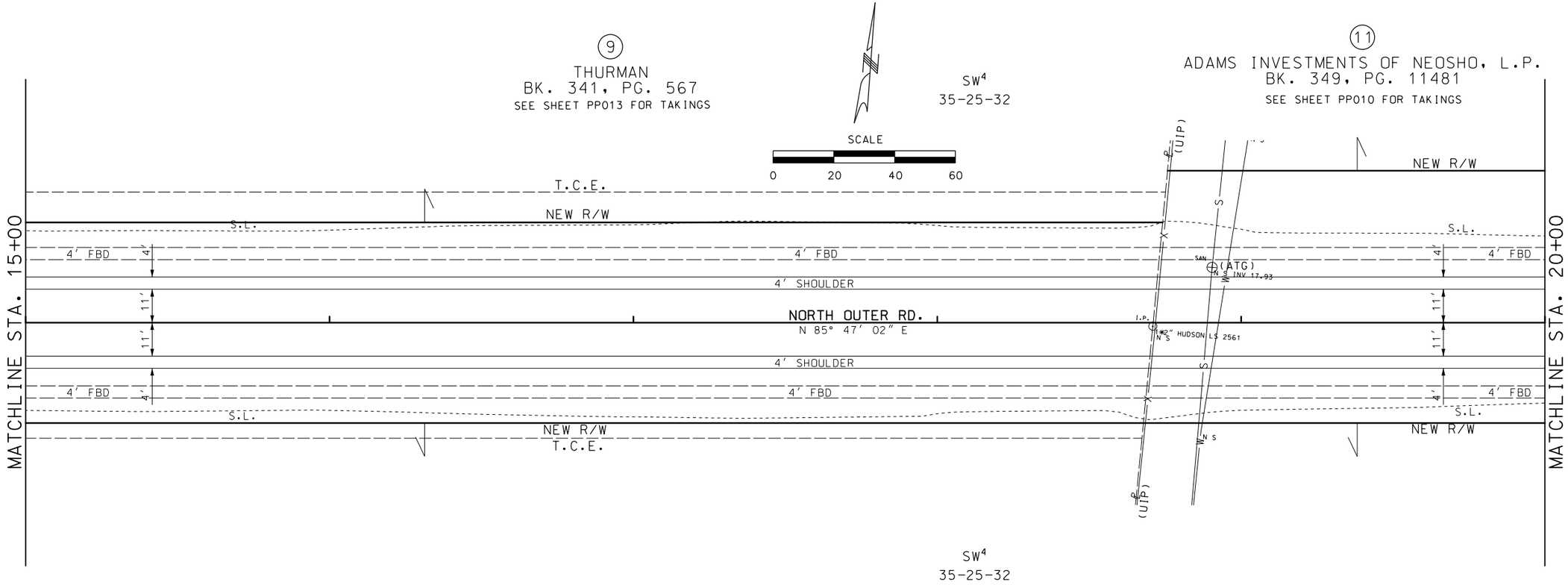

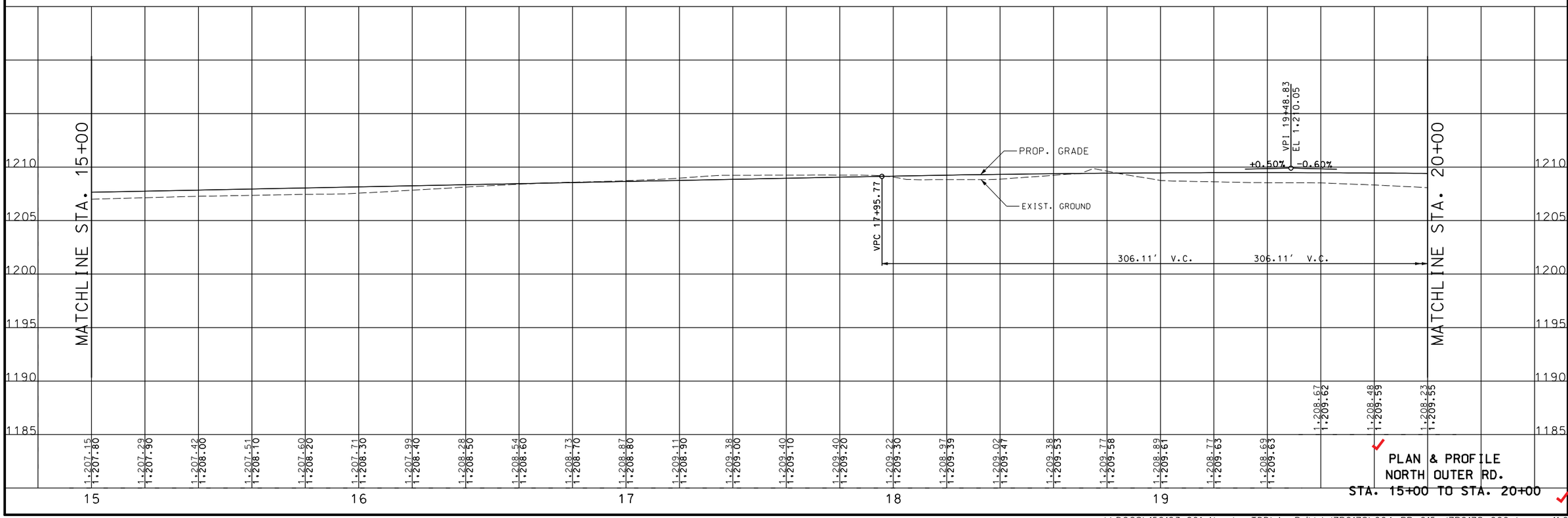

PLAN & PROFILE
NORTH OUTER RD.
STA. 15+00 TO STA. 20+00

FINAL PLANS

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	12/18/2015
ROUTE	60
STATE	MO
DISTRICT	SW
SHEET NO.	PP015
COUNTY	NEWTON
JOB NO.	J7P2178
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(33)
BRIDGE NO.	

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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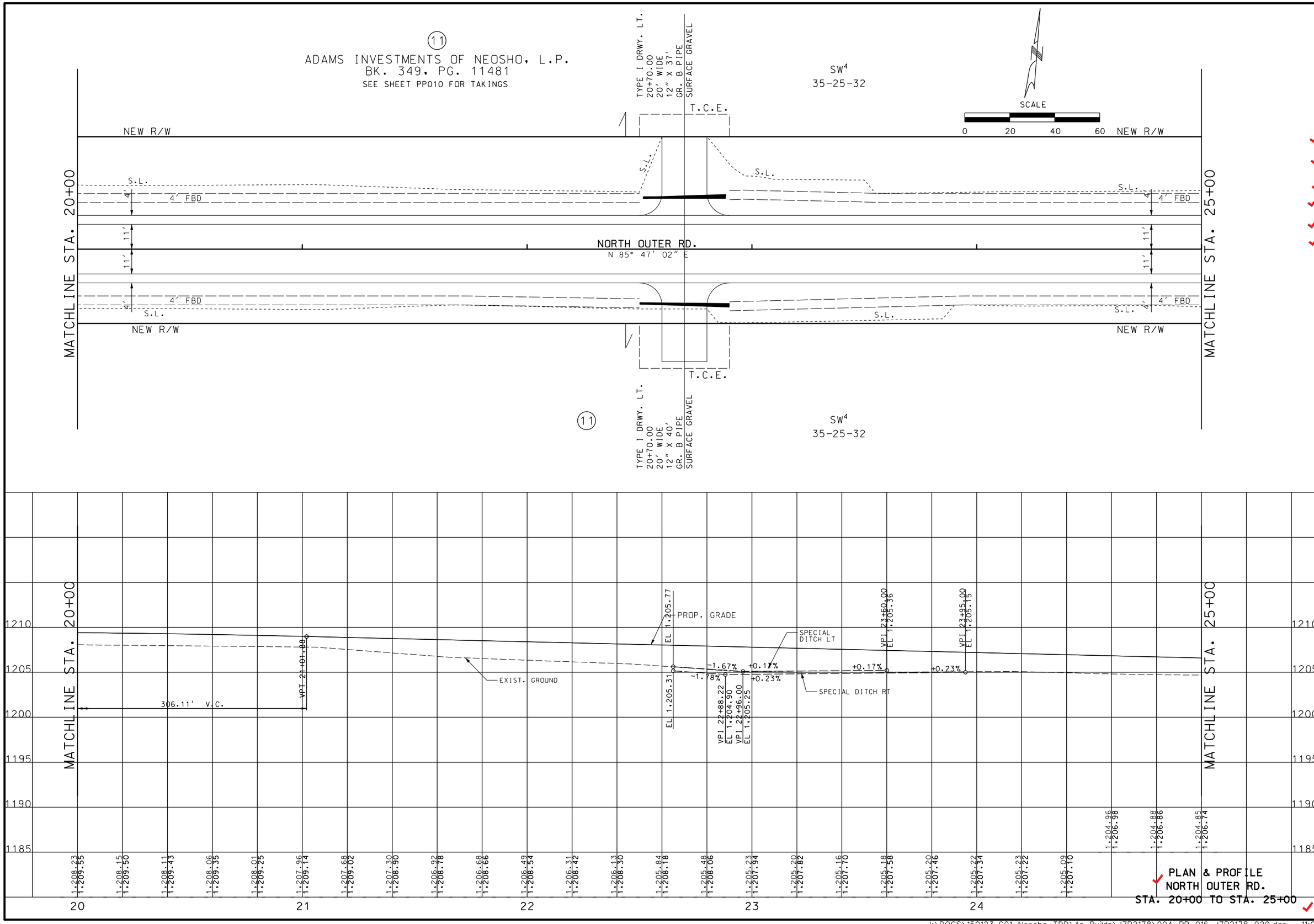

PLAN & PROFILE
NORTH OUTER RD.
STA. 20+00 TO STA. 25+00

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	12/18/2015
ROUTE	60
STATE	MO
DISTRICT	SW
SHEET NO.	PP016
COUNTY	NEWTON
JOB NO.	J7P2178
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(33)
BRIDGE NO.	

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

FINAL PLANS

REV.

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ADAMS INVESTMENTS OF NEOSHO, L.P.
BK. 349, PG. 11481
SEE SHEET PP010 FOR TAKINGS

(11)

+36.43
16.50' RT
BEGIN TAPER

+59.12
16.50' RT
HALE MCGINTY

+28.17
11.00' LT
BEGIN TAPER

SW4
35-25-32

+37.41
18.13' LT
NORTH OUTER RD.
END TAPER

NEW R/W

S.L.

4' FBD

R=60'

15" GR. B PIPE

HALE MCGINTY DR.
S 4° 12' 59" E

+70.56
22.74' LT
HALE MCGINTY
BEGIN TAPER

+92.57
11.00' LT
NORTH OUTER RD.

MATCHLINE STA. 25+00

MATCHLINE STA. 30+00

NORTH OUTER RD.
N 85° 47' 02" E

11'

4'

+26.94
11.00' RT
NORTH OUTER RD.

+67.09
23.19' RT
ADAMS DR.

+67.22
25.19' RT
ADAMS DR.
END TAPER

ADAMS DR.
S 4° 12' 59" E

℄ NORTH OUTER RD.
STA. 27+10.00 =
℄ HALE MCGINTY DR.
STA. 157+37.12 =
℄ ADAMS DR.
STA. 1+00.00

+83.09
18.10' RT
NORTH OUTER RD.
BEGIN TAPER

+77.96
19.00' LT
ADAMS DR.

+77.97
17.00' LT
ADAMS DR.

+91.81
11.00' RT
END TAPER

SCALE
0 20 40 60

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/14/2015

ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. PP017
COUNTY NEWTON
JOB NO. J7P2178
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(33)
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

1210
1205
1200
1195
1190
1185
1180

MATCHLINE STA. 25+00

MATCHLINE STA. 30+00

0.60% -0.60%

VPI 27+10.00
EL 1,205.48

PROP. GRADE

EXIST. GROUND

1,204.85 1,206.74
1,204.89 1,206.62
1,204.69 1,206.50
1,204.44 1,206.38
1,204.28 1,206.26
1,204.23 1,206.14
1,204.28 1,206.02
1,203.97 1,205.90
1,203.78 1,205.78
1,203.73 1,205.66
1,203.69 1,205.54
1,203.64 1,205.42
1,203.78 1,205.30
1,203.83 1,205.18
1,203.84 1,205.06
1,203.89 1,204.94
1,203.87 1,204.82
1,203.74 1,204.70
1,203.77 1,204.58
1,203.67 1,204.46
1,203.68 1,204.34
1,203.70 1,204.22
1,203.39 1,204.10
1,203.24 1,203.98
1,203.17 1,203.86
1,203.09 1,203.74

25 26 27 28 29

PLAN & PROFILE
NORTH OUTER RD.
STA. 25+00 TO STA. 30+00

FINAL PLANS

REV.

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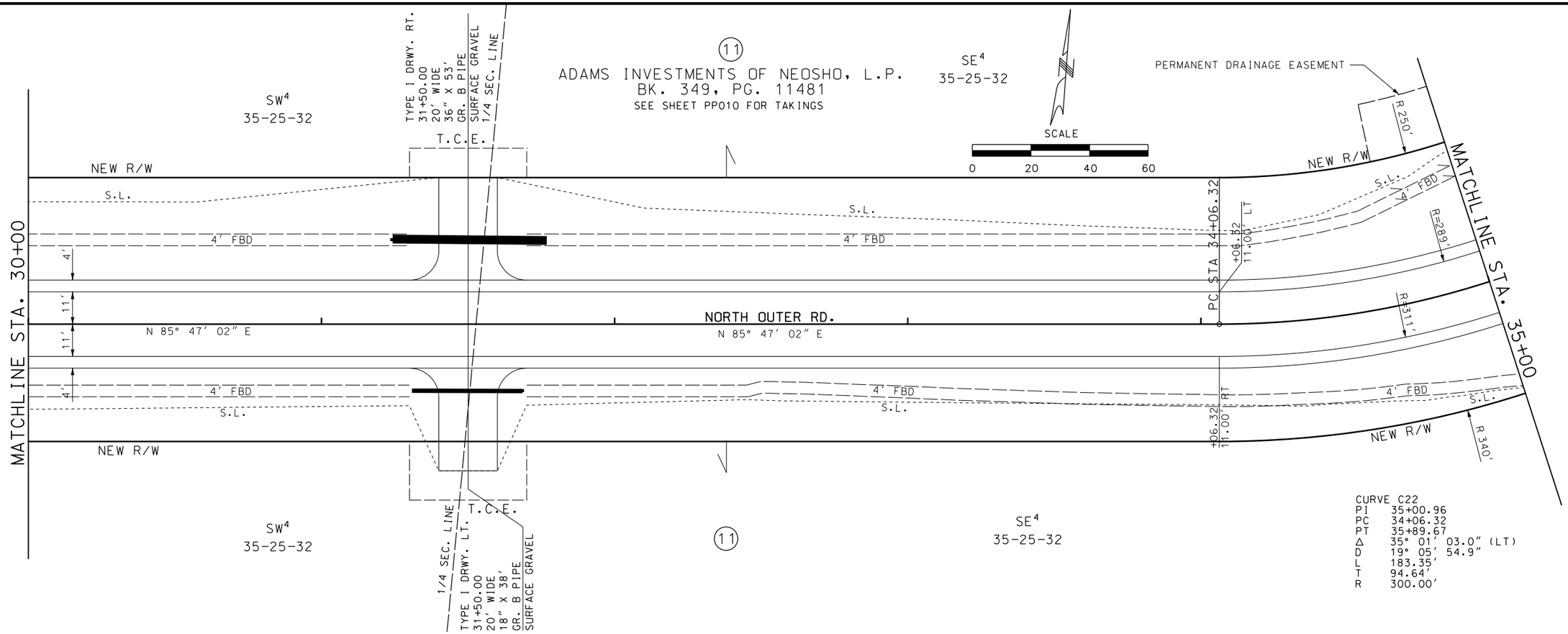

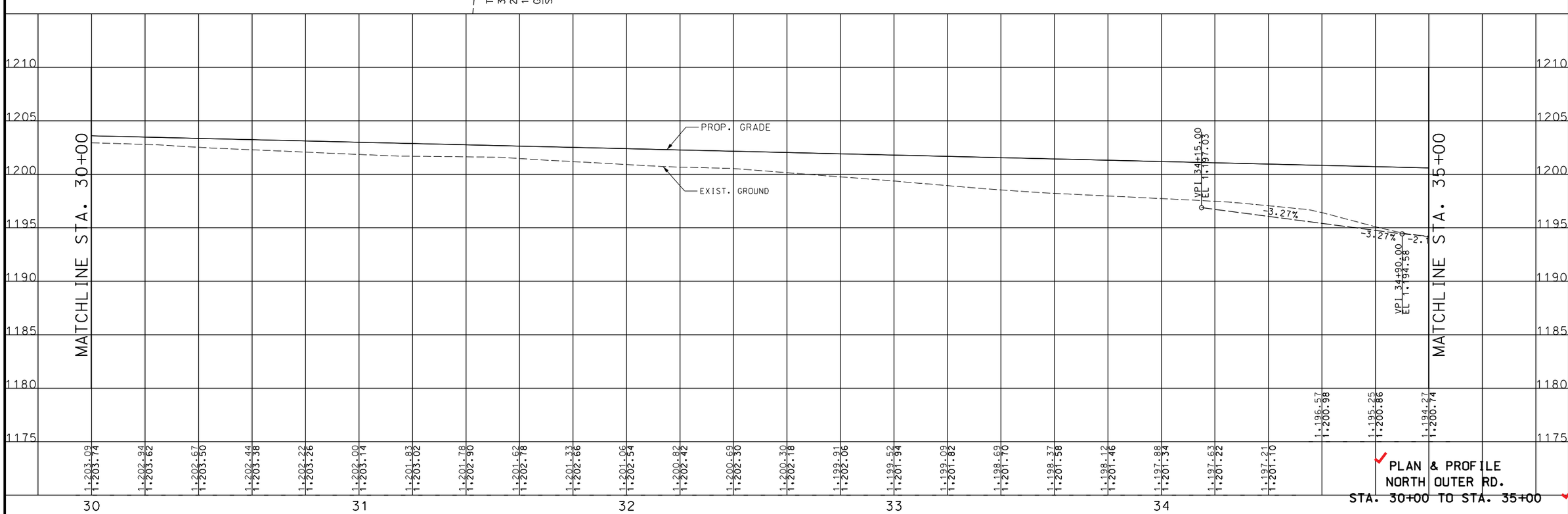

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/18/2015

ROUTE 60 | STATE MO

DISTRICT SW | SHEET NO. PP018

COUNTY NEWTON

JOB NO. J7P2178

CONTRACT ID. 150123-G01

PROJECT NO. FAF-60-1(33)

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

PLAN & PROFILE
NORTH OUTER RD.
STA. 30+00 TO STA. 35+00

FINAL PLANS

REV.

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ADAMS INVESTMENTS OF NEOSHO, L.P.
BK. 349, PG. 11481
SEE SHEET PP010 FOR TAKINGS

(11)

SE4 35-25-32

PERMANENT DRAINAGE EASEMENT

T.C.E.

NEW R/W

S.L.

4' FBD

R=250'

R 289'

R=311'

R 340'

4'X4' BOX CULVERT

MATCHLINE STA. 35+00

PT STA 35+89.67

+89.67 11.00' LT

+89.67 11.00' RT

NORTH OUTER RD.
N 50° 45' 59" E

4' 11' 11' 4'

+56.60 11.00' RT

+56.60 11.00' LT

PC STA 37+56.60

R=250'

R=211'

R 185'

R 160'

CURVE C22
PI 35+00.96
PC 34+06.32
PT 35+89.67
Δ 35° 01' 03.0" (LT)
D 19° 05' 54.9"
L 183.35'
T 94.64'
R 300.00'

PERMANENT DRAINAGE EASEMENT

SE4 35-25-32

CURVE C23
PI 38+19.66
PC 37+56.60
PT 38+78.77
Δ 35° 00' 00.0" (RT)
D 28° 38' 52.4"
L 122.17'
T 63.06'
R 200.00'

SCALE
0 20 40 60

(12)

FOSTER
BK. 361, PG. 4098
0.277 AC. NEW R/W
6.455 AC. REMAINING

PT STA 38+78.77

(ATG)

+78.77 11.00' LT

EXIST. R/W

N 85° 45' 59" E

MATCHLINE STA. 40+00

TYPE I DRWY. RT. 39+03.70
30.39' WIDE
25' RADIUS
18" X 66' GR. B PIPE

(13)

GOPAL PROP. LLC
KAJAL INN, INC
MILAN, INC
BK. 356, PG. 5725
0.141 AC. TEMPORARY EASEMENT

T.C.E.

PARCEL 13 - CONTRACTOR SHALL ONLY DISTURB EXISTING IMPROVEMENTS AND PAVEMENT NECESSARY FOR THE CONSTRUCTION OF THE ENTRANCE, CULVERT AND DITCH AS SHOWN

SE4 35-25-32

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/18/2015
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. PP019
COUNTY NEWTON
JOB NO. J7P2178
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(33)
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED

1210
1205
1200
1195
1190
1185
1180
1175

MATCHLINE STA. 35+00

PROP. GRADE

EXIST. GROUND

SPECIAL DITCH LT

VPI 35+10.00
EL 1,194.15

5% +0.35%

VPC 37+89.07

674.63' V.C.

MATCHLINE STA. 40+00

1,194.27 1,200.74
1,193.96 1,200.62
1,194.33 1,200.50
1,195.13 1,200.38
1,195.03 1,200.26
1,195.50 1,200.14
1,196.21 1,200.02
1,196.78 1,199.90
1,197.34 1,199.78
1,197.55 1,199.66
1,197.65 1,199.54
1,197.85 1,199.42
1,198.12 1,199.30
1,198.39 1,199.18
1,198.63 1,199.06
1,198.85 1,198.94
1,199.05 1,198.83
1,199.25 1,198.74
1,199.39 1,198.65
1,199.37 1,198.57
1,199.07 1,198.51
1,197.37 1,198.45
1,197.17 1,198.41
1,197.90 1,198.37
1,197.70 1,198.35
1,197.15 1,198.34

35 36 37 38 39

PLAN & PROFILE
NORTH OUTER RD.
STA. 35+00 TO STA. 40+00

FINAL PLANS

REV.

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(12)
FOSTER
BK. 361, PG. 4098
SEE SHEET PP019 FOR TAKINGS

SE^4
35-25-32

CURVE C21
PI 42+25.11
PC 41+81.68
PT 42+68.49
Δ 4° 58′ 27.3″ (RT)
D 5° 43′ 46.5″
L 86.82′
T 43.44′
R 1,000.00′

SCALE
0 20 40 60

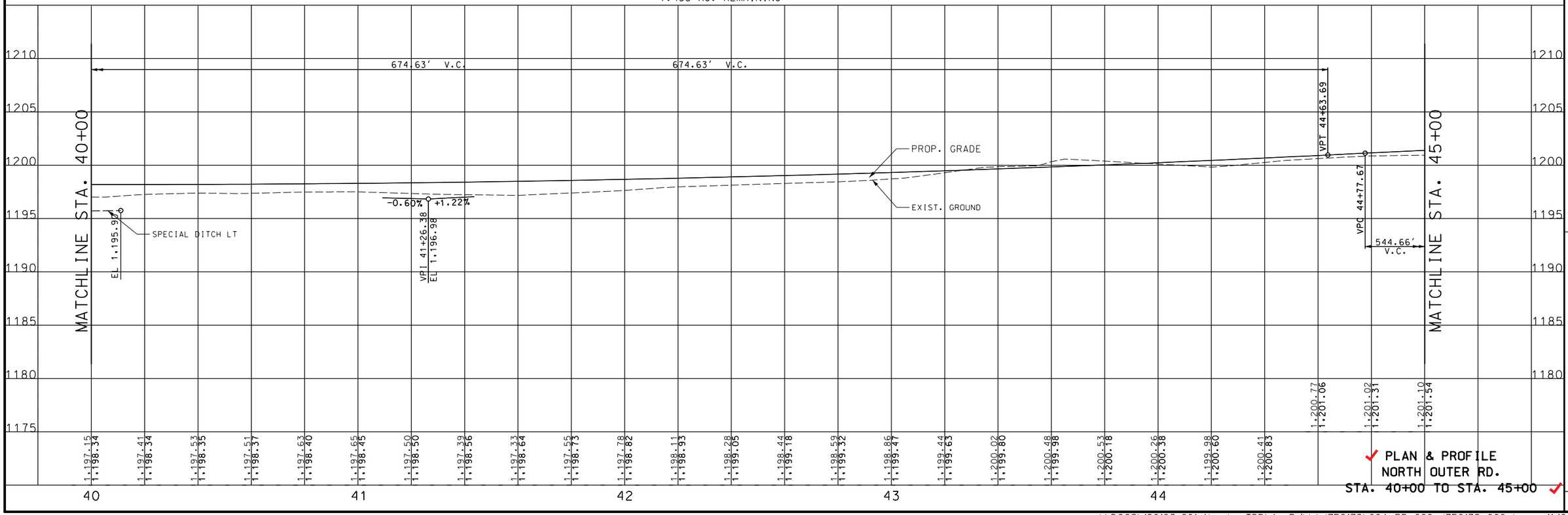
NEW R/W
S.L.
EXIST. R/W
4′ FBD
NORTH OUTER RD.
N 85° 45′ 59″ E
MATCHLINE STA. 40+00
PC STA 41+81.68
PT STA 42+68.49
BEGIN 2′ CURB & GUTTER
+81.68 11.00′ LT
+68.49 13.00′ LT
+68.49 11.00′ LT
R=1050′
(R)
(ATG)
(UIP)
SAN
4′
11′
11′
4′
2′
13′
13′
2′
GOD NAIL
S 89° 15′ 34″ E
I.P.
1/2″ PLS ANDREWS
+81.68 11.00′ RT
+68.49 11.00′ RT
+68.49 13.00′ RT
R 940′
T.C.E.
MATCHLINE STA. 45+00

PARCEL 13 - CONTRACTOR SHALL ONLY DISTURB EXISTING IMPROVEMENTS AND PAVEMENT NECESSARY FOR THE CONSTRUCTION OF THE ENTRANCE, CULVERT AND DITCH AS SHOWN

(13)
GOPAL PROP. LLC
KAJAL INN, INC
MILAN, INC
BK. 356, PG. 5725
SEE SHEET PP019 FOR TAKINGS

(14)
FREEMAN
HEALTH SYSTEM
BK. ?, PG. ?
0.022 AC. NEW R/W
0.111 AC. TEMPORARY EASEMENT
1.453 AC. REMAINING

(15)
FREEMAN OAK-HILL HEALTH SYSTEM
BK. 348, PG. 6947
0.223 AC. NEW R/W
0.219 AC. TEMPORARY EASEMENT
2.778 AC. REMAINING



PLAN & PROFILE
NORTH OUTER RD.
STA. 40+00 TO STA. 45+00

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/18/2015
ROUTE 60
STATE MO
DISTRICT SW
SHEET NO. PP020
COUNTY NEWTON
JOB NO. J7P2178
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(33)
BRIDGE NO.

DESCRIPTION
DATE
REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

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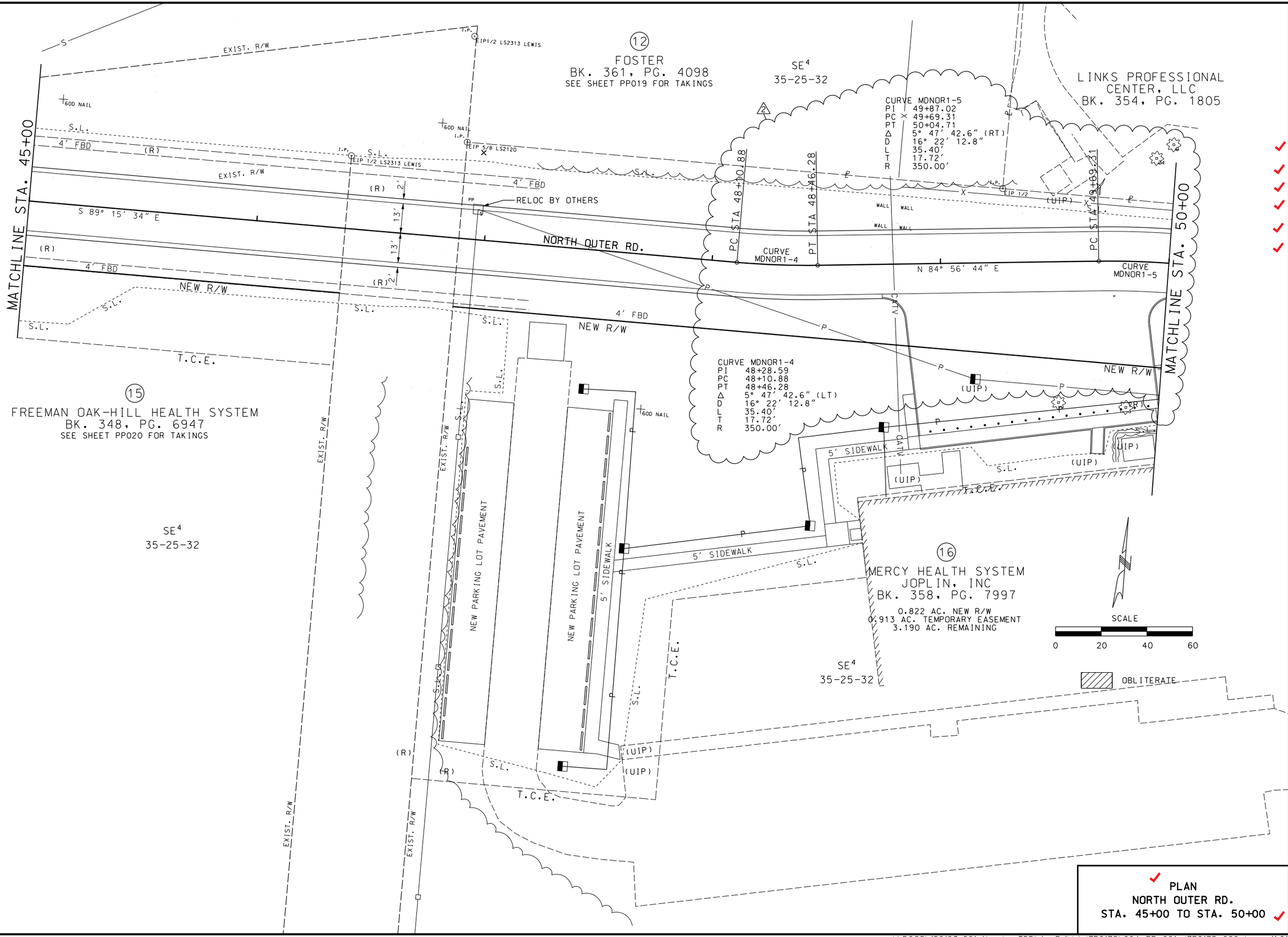

PLAN
NORTH OUTER RD.
STA. 45+00 TO STA. 50+00

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	12/18/2015
ROUTE	60
STATE	MO
DISTRICT	SW
SHEET NO.	PP021
COUNTY	NEWTON
JOB NO.	J7P2178
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(33)
BRIDGE NO.	

DATE	DESCRIPTION
3/19/15	ALIGNMENT CHANGE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

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DATE PREPARED
12/14/2015

ROUTE	STATE
60	MO

DISTRICT	SHEET NO.
SW	PP022

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

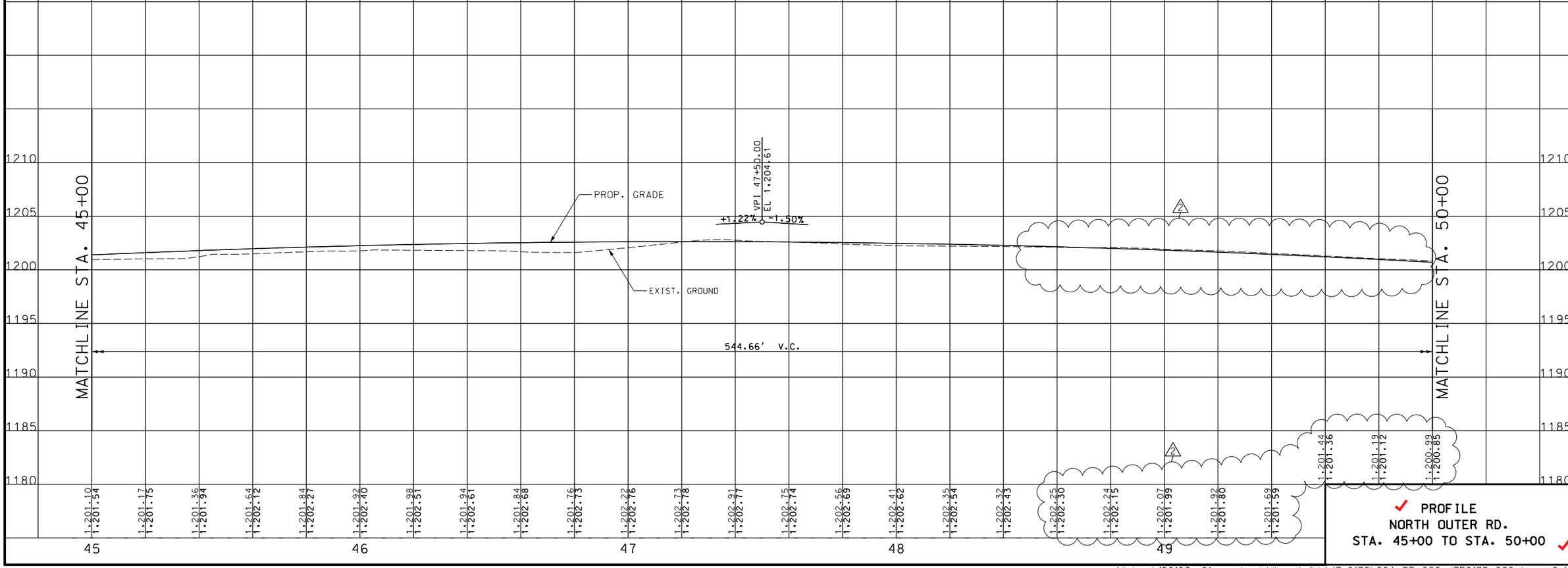
PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

NO.	DESCRIPTION	DATE
2	ALIGNMENT CHANGE	3/19/15

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



PROFILE
NORTH OUTER RD.
STA. 45+00 TO STA. 50+00

FINAL PLANS

REV.

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LINKS PROFESSIONAL CENTER, LLC
BK. 354, PG. 1805

CURVE MDNOR1-6
PI 50+86.32
PC 50+35.19
PT 51+36.73
Δ 16° 37' 16.3" (RT)
D 16° 22' 12.8"
L 101.54'
T 51.13'
R 350.00'

MATCHLINE STA. 50+00

PT STA 50+04.71

PC STA 50+35.19

NORTH OUTER RD.
CURVE MDNOR1-6

S 89° 15' 34" E

PT STA 51+36.73

+21.12
13.00' LT
PRC

R=202'

+48.53
15.88' LT
PCC

+97.28
69.74' LT
PT
NORTH OUTER RD.

LUSK DR.

EXIST. R/W

4 BOXES RELOC
4 BOXES RELOC

+86.20
39.81' LT
END CURB
NORTH OUTER RD.

S 72° 38' 17" E

NEW R/W

R=45'

R=20d

+39.85
13.00' RT
PCC

+83.41
28.46' RT
PCC

+87.89
96.42' RT
PT
NORTH OUTER RD.

+74.68
30.04' RT
END CURB
NORTH OUTER RD.

END PROJECT
STA. 51+92.17

SE¼
35-25-32

T.C.E.

(UIP)

6" WIDE

60D NAIL

SIGN 15MPH

SIGN 12 1/STEEL

FD 1/2" PIPE

FF=1203.9

(16)
MERCY HEALTH SYSTEM
JOPLIN, INC
BK. 358, PG. 7997
SEE SHEET PP021 FOR TAKINGS

SCALE
0 20 40 60

OBLITERATE

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DATE PREPARED 12/18/2015
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. PP023
COUNTY NEWTON
JOB NO. J7P2178
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(33)
BRIDGE NO.

DATE	DESCRIPTION
3/19/15	2 ALIGNMENT CHANGE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EXIST. PVMT.
PROP. GRADE
EL 1,198.03
VPT 50+22.33
544.66' V.C.

1,200.99 1,200.85
1,200.80 1,200.56
1,200.61 1,200.26
1,200.45 1,199.96
1,200.33 1,199.66
1,200.24 1,199.36
1,200.18 1,199.06
1,199.81 1,198.76
1,199.04 1,198.46
1,198.37 1,198.16

50 51

1210 1205 1200 1195 1190 1185 1180 1175 1170

PLAN & PROFILE
NORTH OUTER RD.
STA. 50+00 TO STA. 51+92.17

FINAL PLANS

REV.

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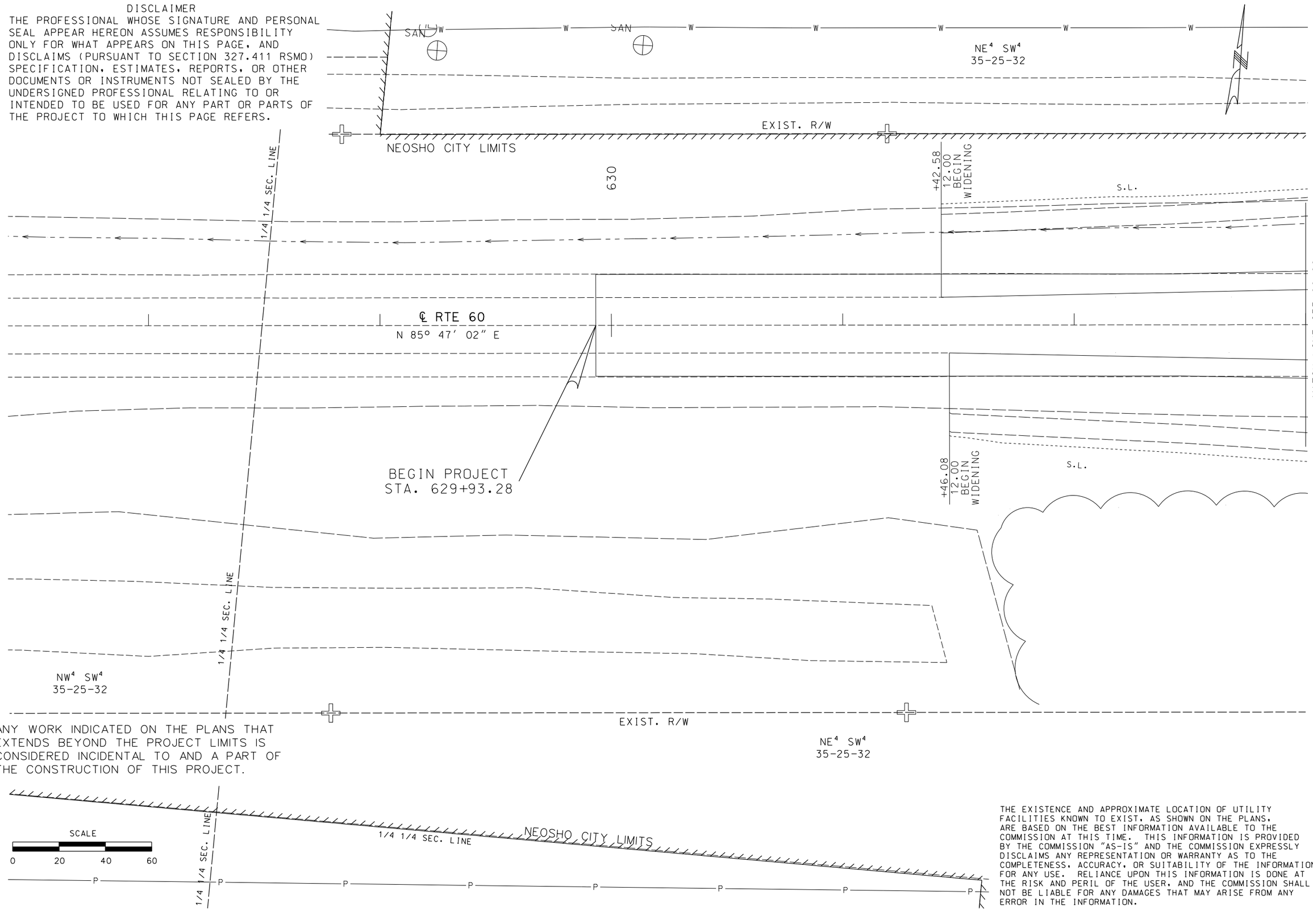

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DATE PREPARED	12/18/2015
ROUTE	60
STATE	MO
DISTRICT	SW
SHEET NO.	PP024
COUNTY	NEWTON
JOB NO.	J7P2178
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(33)
BRIDGE NO.	

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

FINAL PLANS

REV.

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NE⁴ SW⁴
35-25-32

SAN

635

EXIST. R/W

NEOSHO CITY LIMITS

S.L.

STA. 637+70.00 RTE. 60 =
STA. 5+00.00 ADAMS DRIVE

+10.00
140.00

+30.00
140.00

+80.06
82.77

+10.00
101.82

+30.00
101.83

+59.93
82.79

NEW R/W

R 198'

+08.25
64.61

R 53'

+39.18
66.00

+93.06
17.00
END
WIDENING

+44.35
17.00-25.00
END SHOULDER

+74.80
25.00

R 48'

+12.67
37.62

R 58'

℄ RTE 60
N 85° 47' 02" E

MATCH LINE 633+00.00

MATCH LINE 638+60.00

+93.28
17.00
END
WIDENING

+16.33
17.00
BEGIN
TAPER

+25.98
28.00-36.00
END SHOULDER

+16.33
28.00
END
TAPER

+00.82
36.00

R 53'

+31.75
64.61

R 198'

+27.33
37.62

R 88'

R 148'

ADAMS DRIVE

US 60
634+91.08
SKEW 25° R.A.
U.I.P. 1-24"X93'RCP
EXTEND LT 24" X 4'GROUP A PIPE
EXTEND RT 24" X 14' GROUP A PIPE
2 - 24" GROUP A FES
2 - TYPE A PIPE COLLAR
CL. 3 EXC.= 14.9 CY
ROCK LINING = 3 CY - 1'X14'X6'

NE⁴ SW⁴
35-25-32

EXIST. R/W

+25.00
167.23

+20.00
167.21

NEW R/W

SCALE
0 20 40 60

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DATE PREPARED
12/18/2015

ROUTE 60 | STATE MO

DISTRICT SW | SHEET NO. PP025

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

REV.

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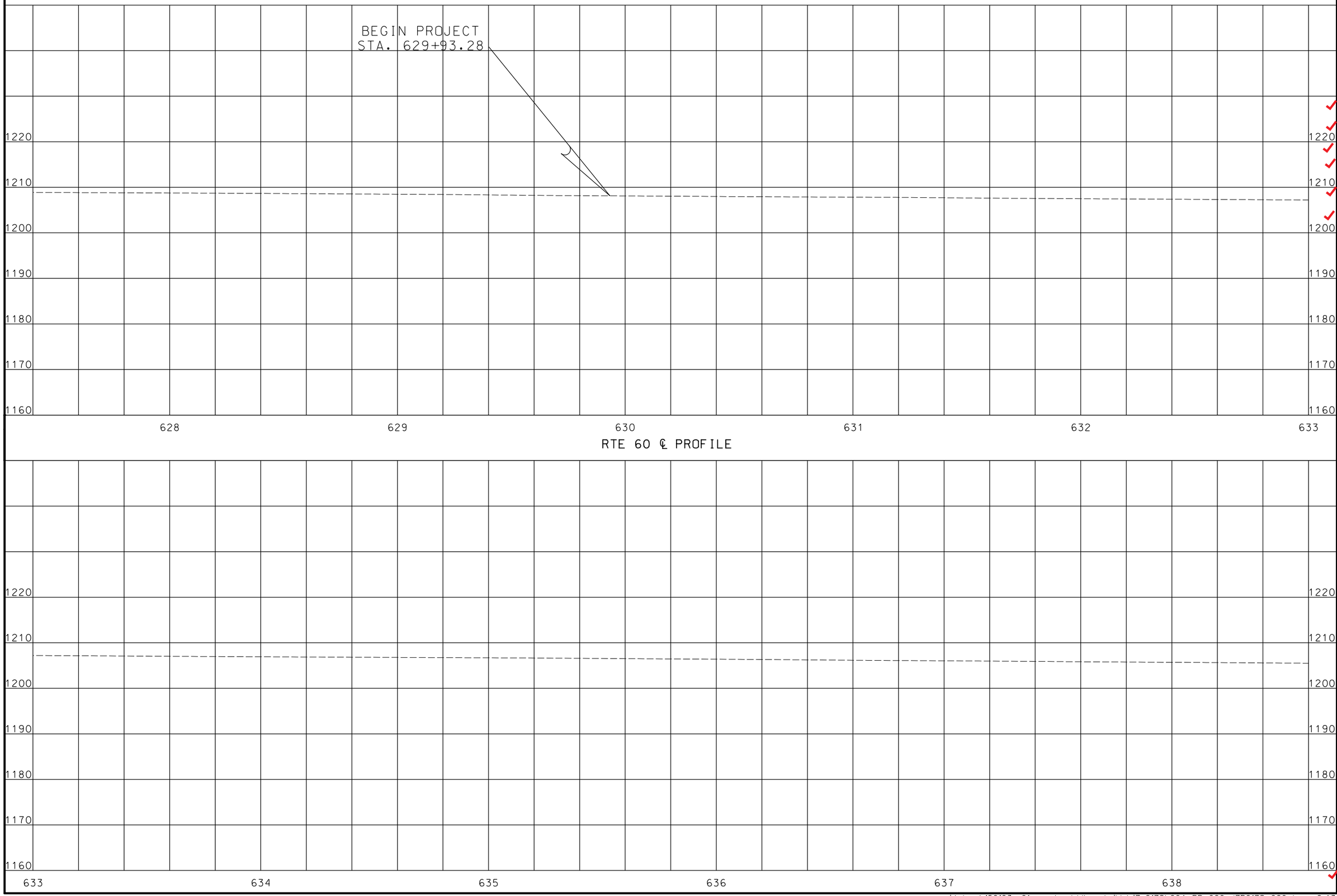

RTE 60 ℄ PROFILE

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/14/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	PP026

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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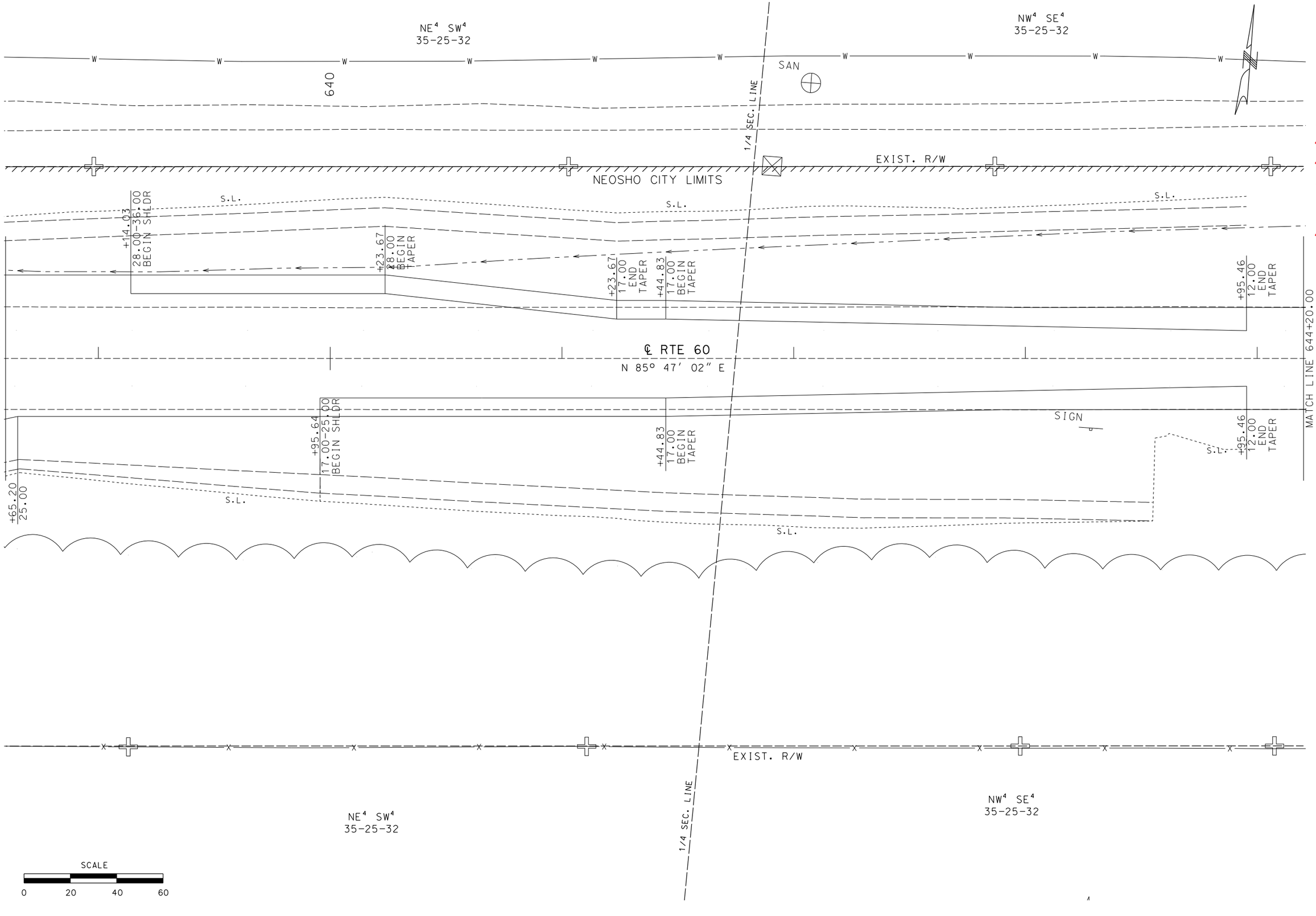

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DATE PREPARED	12/18/2015
ROUTE	60
STATE	MO
DISTRICT	SW
SHEET NO.	PP027
COUNTY	NEWTON
JOB NO.	J7P2178
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(33)
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

FINAL PLANS

REV.

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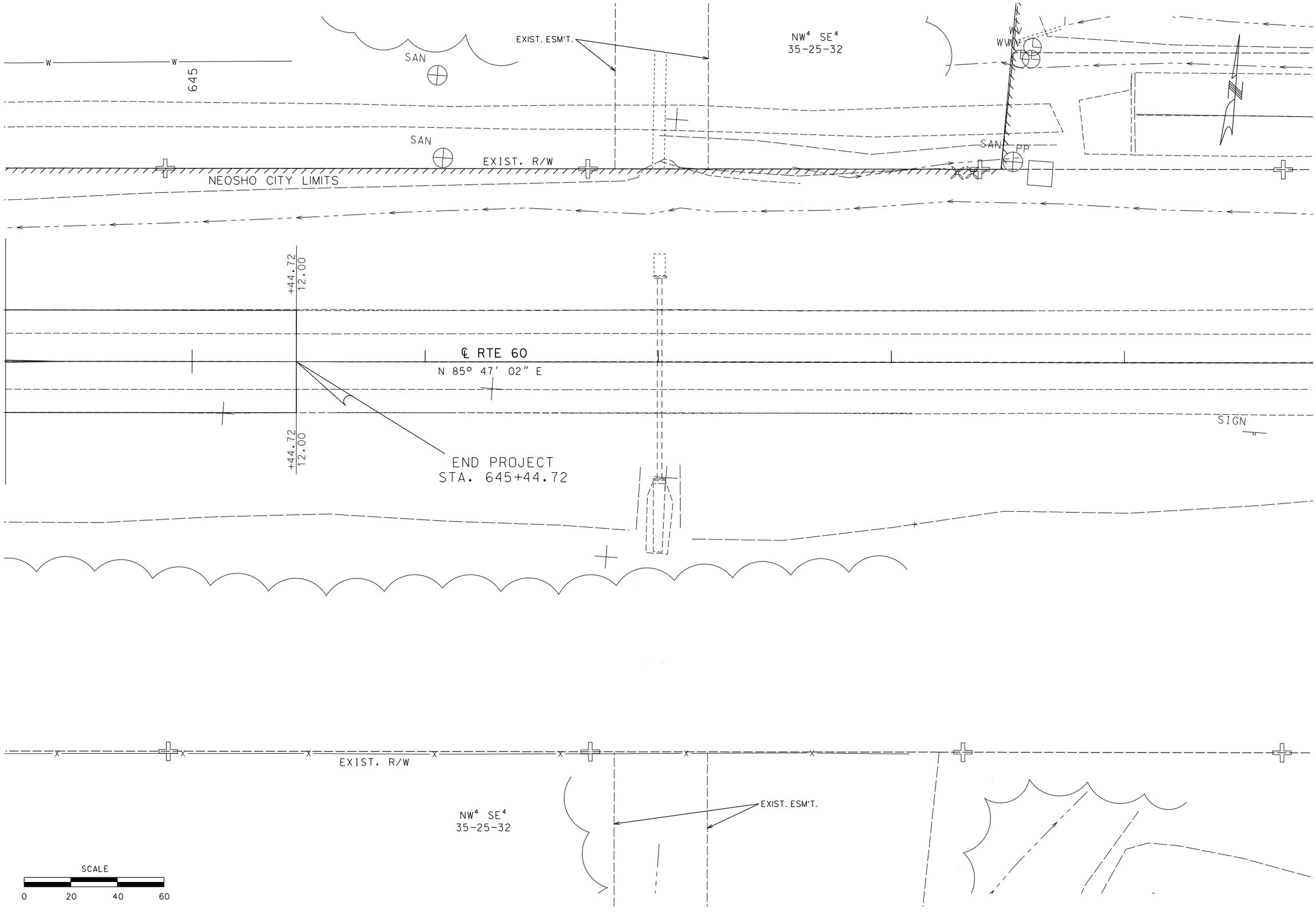

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DATE PREPARED	12/18/2015
ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	PP028
COUNTY	NEWTON
JOB NO.	J7P2178
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(33)
BRIDGE NO.	

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

REV.

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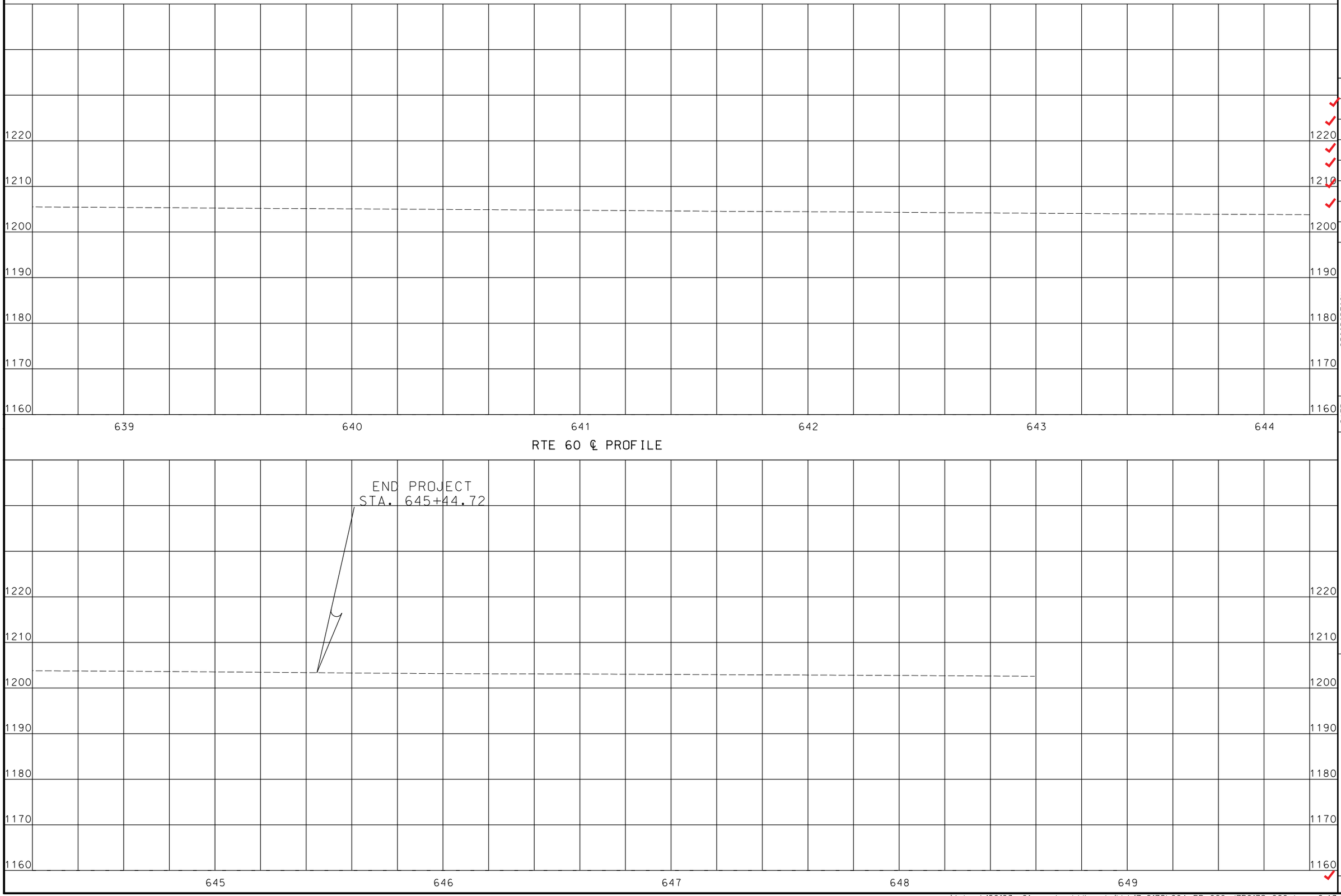

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/14/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	PP029

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

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REV.

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STA. 637+70.00 RTE. 60 =
STA. 5+00.00 ADAMS DRIVE

NE^4 SW^4
35-25-32

NEW R/W

POT STA 1+00.00

NORTH OUTER RD.

ADAMS DRIVE

S 4° 12' 59" E

S 4° 12' 59" E

MATCH LINE
URS CORP.

+80.00
60.00

+60.00
60.00

+26.16
19.00
BEGIN TAPER
S.L.

+68.62
21.83
STAND TAPER

+98.17
60.00

+64.00
69.18

+35.39
56.25
R 63'

+26.16
19.00
S.L.

+83.86
59.00

+99.49
20.65

+42.61
34.74
R 58'

+62.38
57.33
R 148'

+98.18
60.00

EXIST. R/W

NEOSHO CITY LIMITS

+75.00
95.20

PI STA 5+00.00

℄ RTE 160
N 85° 47' 02" E

90°

(11)
ADAMS INVESTMENTS
OF NEOSHO, L.P.

SCALE
0 20 40 60

K = 100
200.00' V.C.

VPI 2+01.03
EL 1,202.99

VPT 3+01.03

VPI 4+87.94
EL 1,205.86

VPI 5+00.00
EL 1,206.10

-1.00%
+1.00%
+2.00%

1220
1210
1200
1190
1180
1170
1160

1 2 3 4 5

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/18/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	PP030

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

REV.

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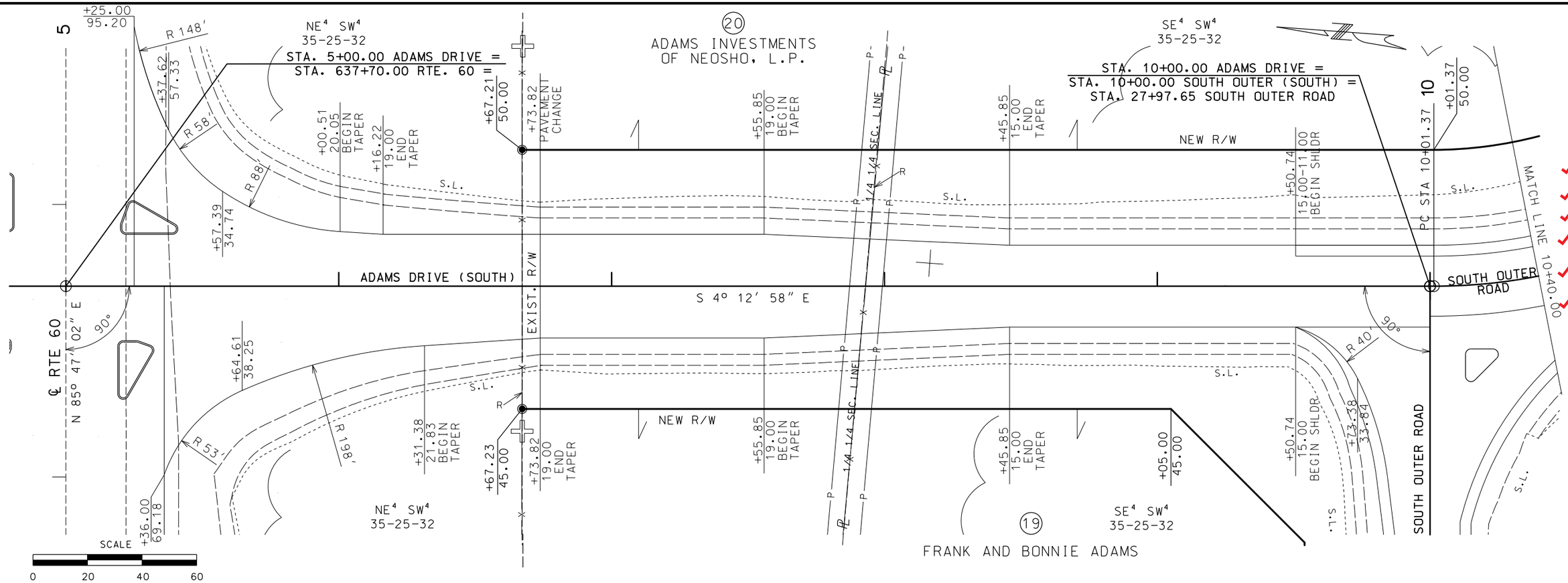

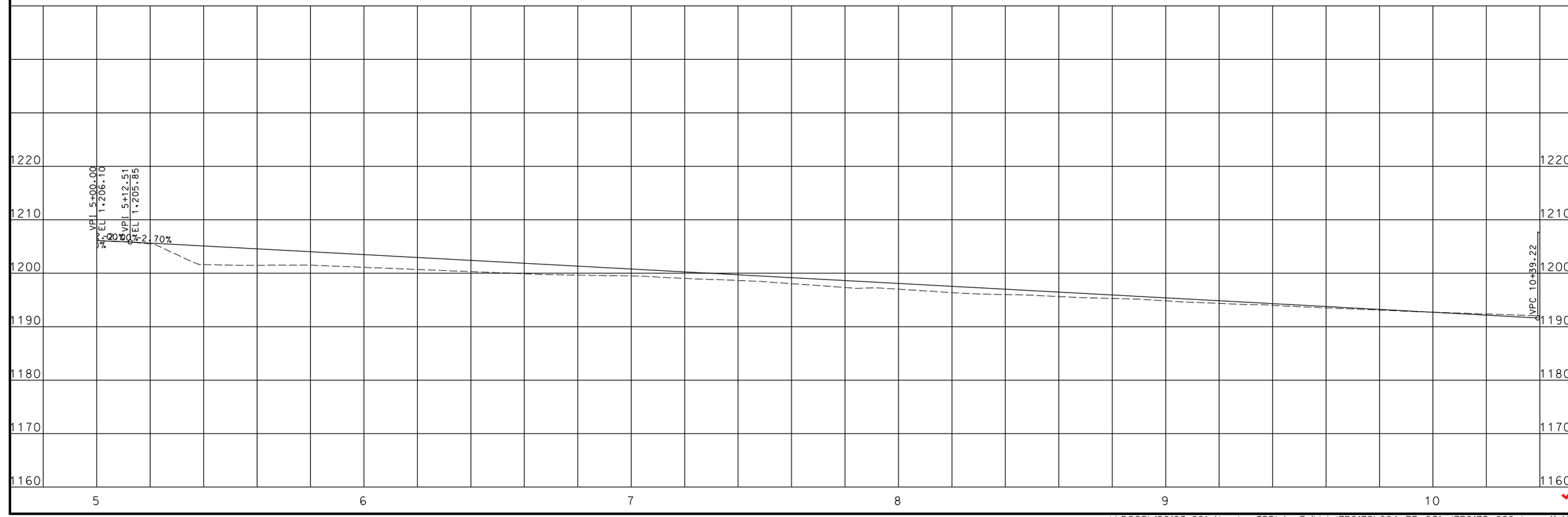

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DATE PREPARED	12/18/2015
ROUTE	60
STATE	MO
DISTRICT	SW
SHEET NO.	PP031
COUNTY	NEWTON
JOB NO.	J7P2178
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(33)
BRIDGE NO.	

NO.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

FINAL PLANS

REV.

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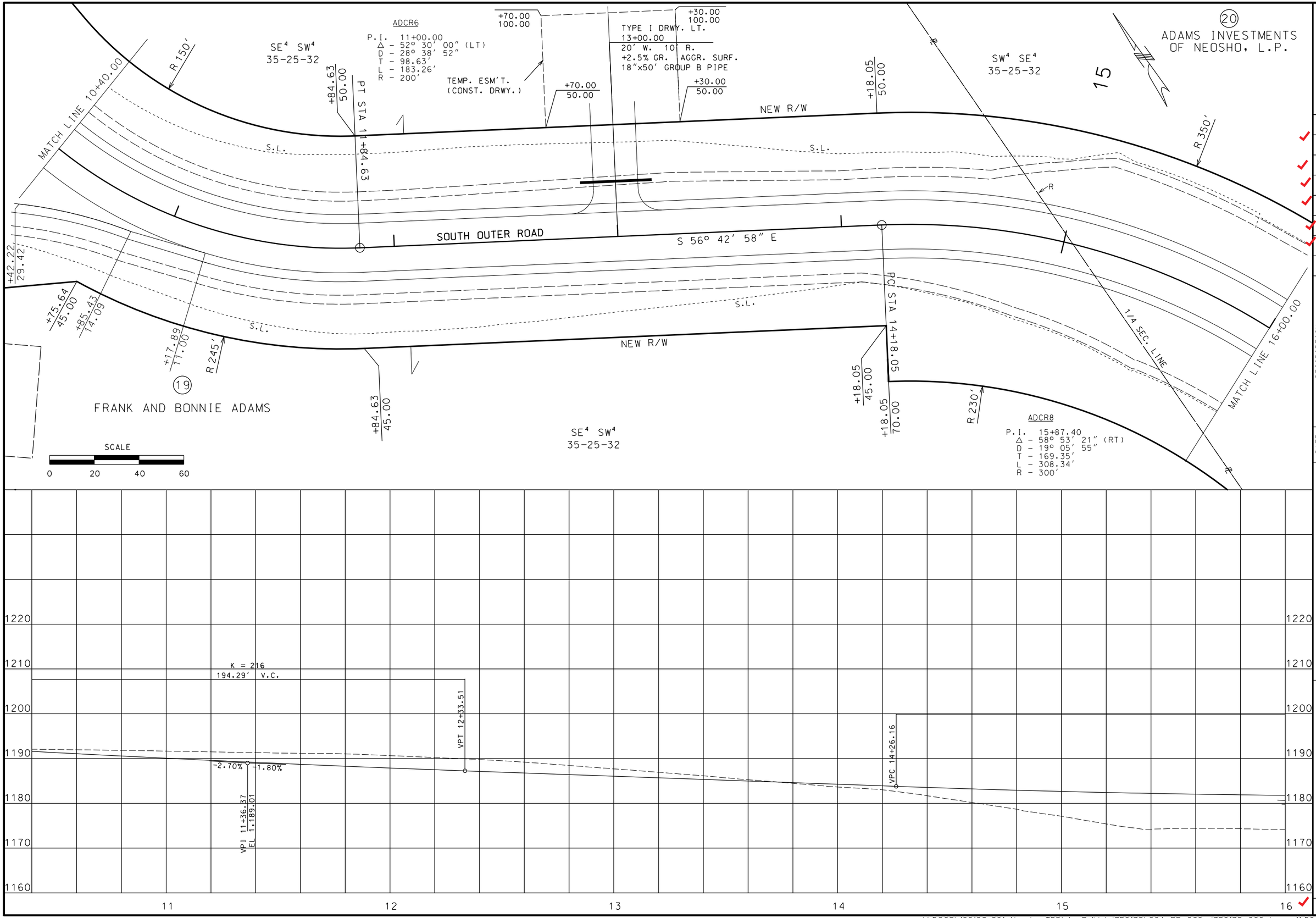

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DATE PREPARED
12/18/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	PP032

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED

FINAL PLANS

REV.

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SOUTH OUTER ROAD
16+33.06
SKEW 10° R.A.
2-72"(72")X76'GROUP B PIPE
EMBEDDED 12"
DA 195AC Q(10YR) 261.22 cfs
OVERTOPPING 25 YR
CL. 3 3XC. = 54.8 CY
ROCK LINING = 64 CY-2'X30'X29'

20

ADAMS INVESTMENTS
OF NEOSHO, L.P.

SW¼ SE¼
35-25-32

+70.00
100.00

TEMP. ESM'T.
(CONST. DRWY.)

+70.00
50.00

TYPE I DRWY. LT.
19+00.00
20' W. 10' R.
+4.5% GR. AGGR. SURF.
18"X50' GROUP B PIPE

+30.00
100.00

+30.00
50.00

+26.39
50.00

NEW R/W

S.L.

+98.02
50.00

PC STA 20+98.02

MATCH LINE 21+60.00

SOUTH OUTER ROAD

S 2° 10' 23" W

MATCH LINE 16+00.00

PT STA 17+26.39

S.L.

NEW R/W

NEOSHO CITY LIMITS

1/4 SEC. LINE

+26.39
75.10

+57.69
70.00

+98.02
68.67

SCALE
0 20 40 60

SE¼ SW¼
35-25-32

SLAUGHTER
"DO NOT DISTURB"

K = 134
375.00' V.C.

VPI 16+13.66
EL 1,180.41

1.80%

-1.00%

VPI 18+01.16

VPC 20+31.57

1220
1210
1200
1190
1180
1170
1160

16 17 18 19 20 21

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/18/2015

ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. PP033
COUNTY NEWTON
JOB NO. J7P2178
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(33)
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

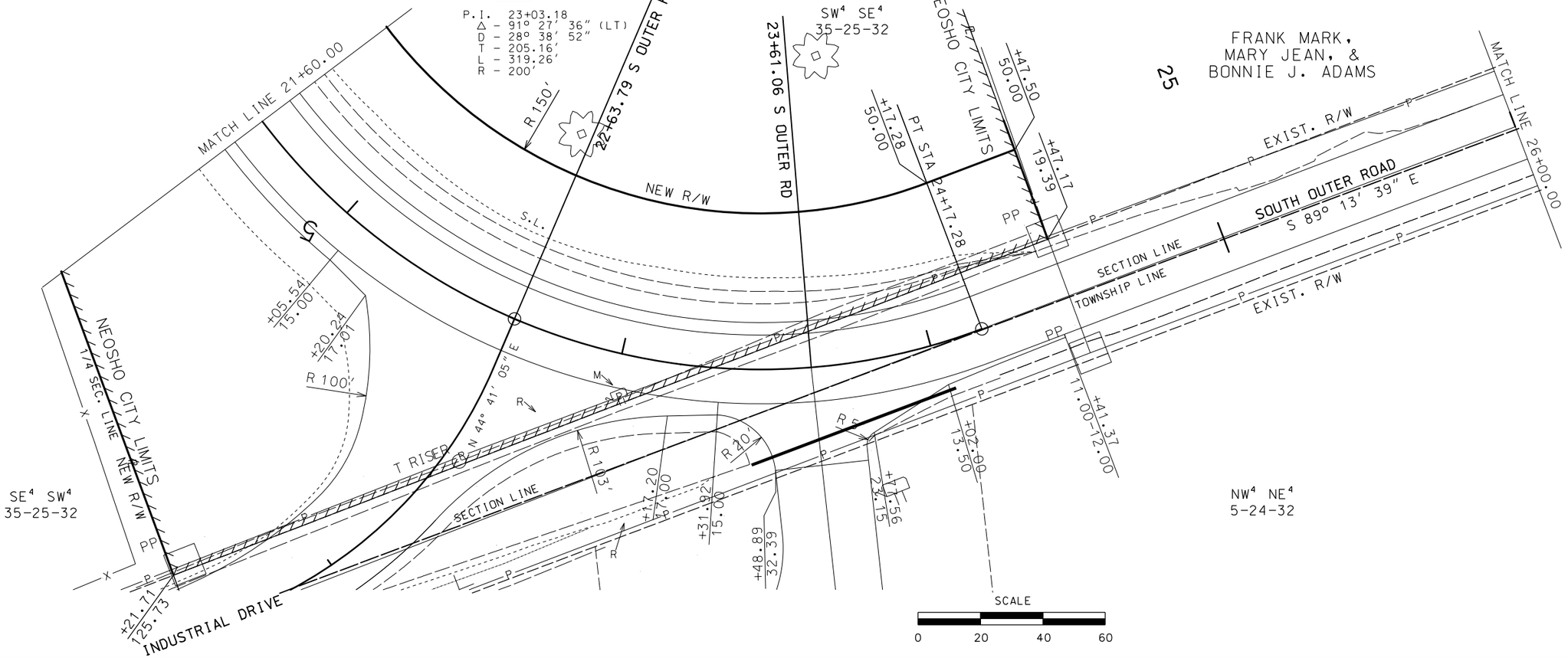
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

FINAL PLANS

REV.

J:\DOCS\150123-G01_Neosho_TDD\As_Builds\J7P2178\004_PP_033_J7P2178_020.dgn 11:57:41 AM 12/18/2015



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	12/18/2015
ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	PP034
COUNTY	NEWTON
JOB NO.	J7P2178
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(33)
BRIDGE NO.	

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

FINAL PLANS

REV.

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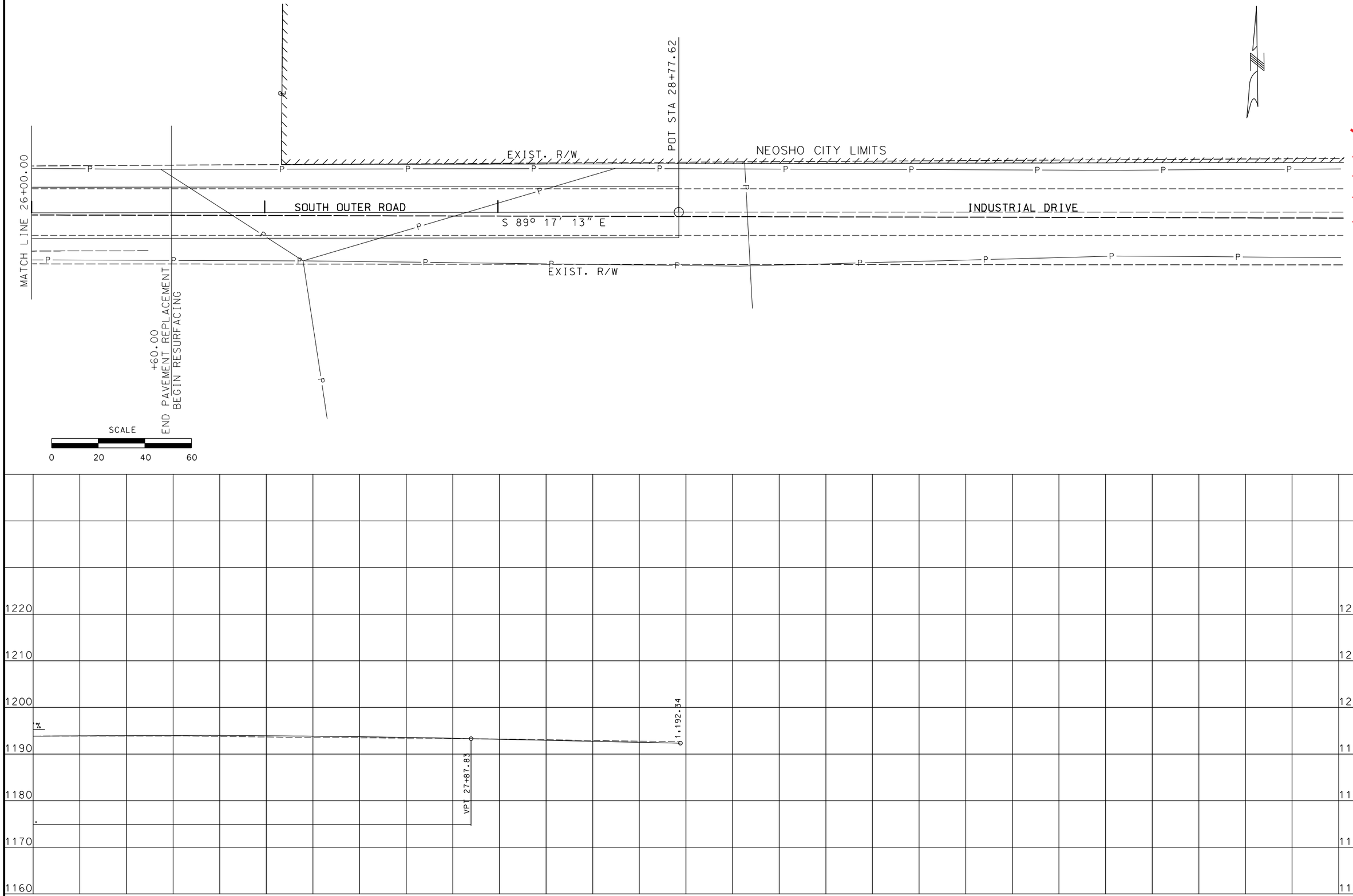

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	12/14/2015
ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	PP035
COUNTY	NEWTON
JOB NO.	J7P2178
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(33)
BRIDGE NO.	

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

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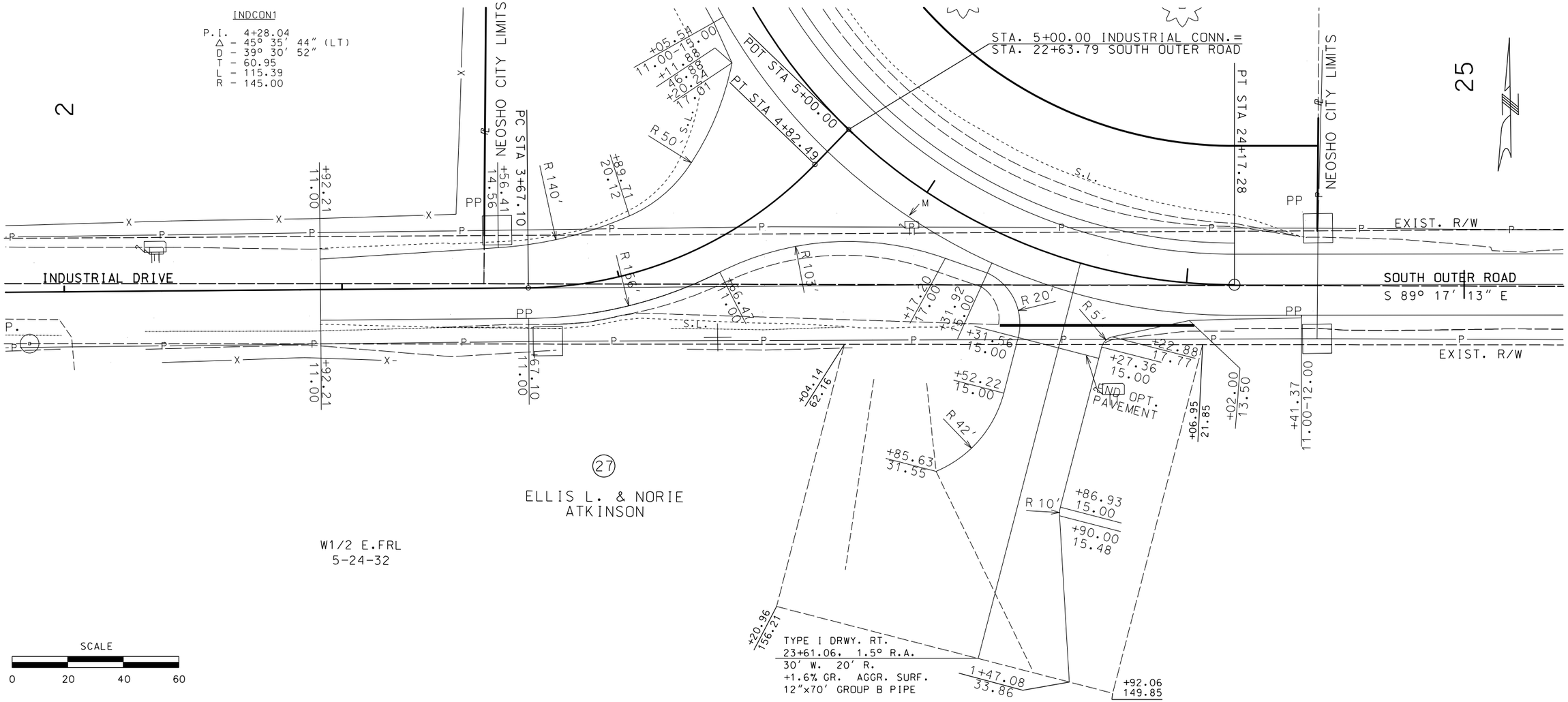

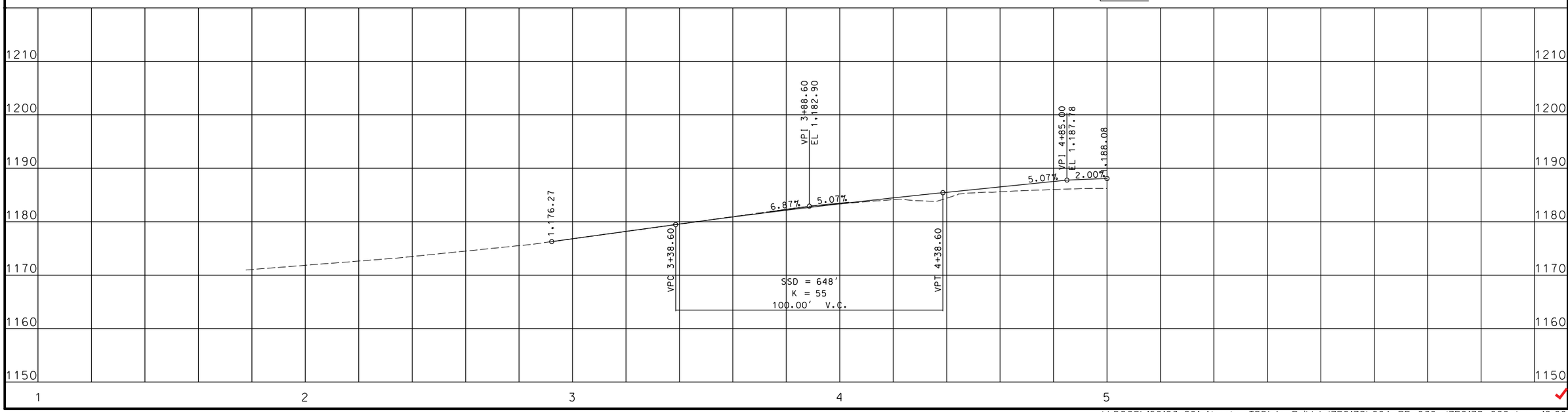

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/18/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	PP036

COUNTY: NEWTON

JOB NO.: J7P2178

CONTRACT ID.: 150123-G01

PROJECT NO.: FAF-60-1(33)

BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

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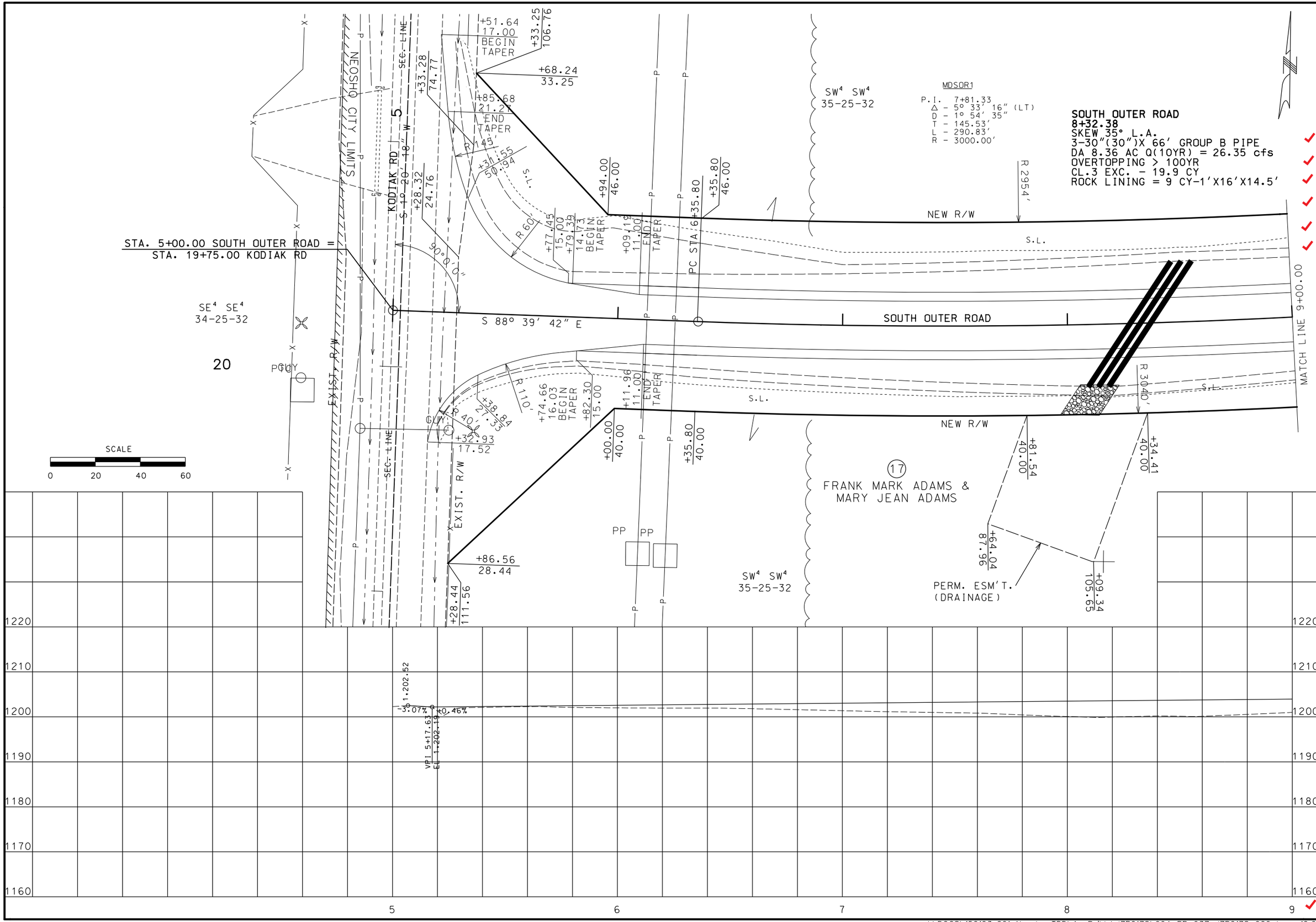

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	12/18/2015
ROUTE	60
STATE	MO
DISTRICT	SW
SHEET NO.	PP037
COUNTY	NEWTON
JOB NO.	J7P2178
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(33)
BRIDGE NO.	

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

FINAL PLANS

REV.

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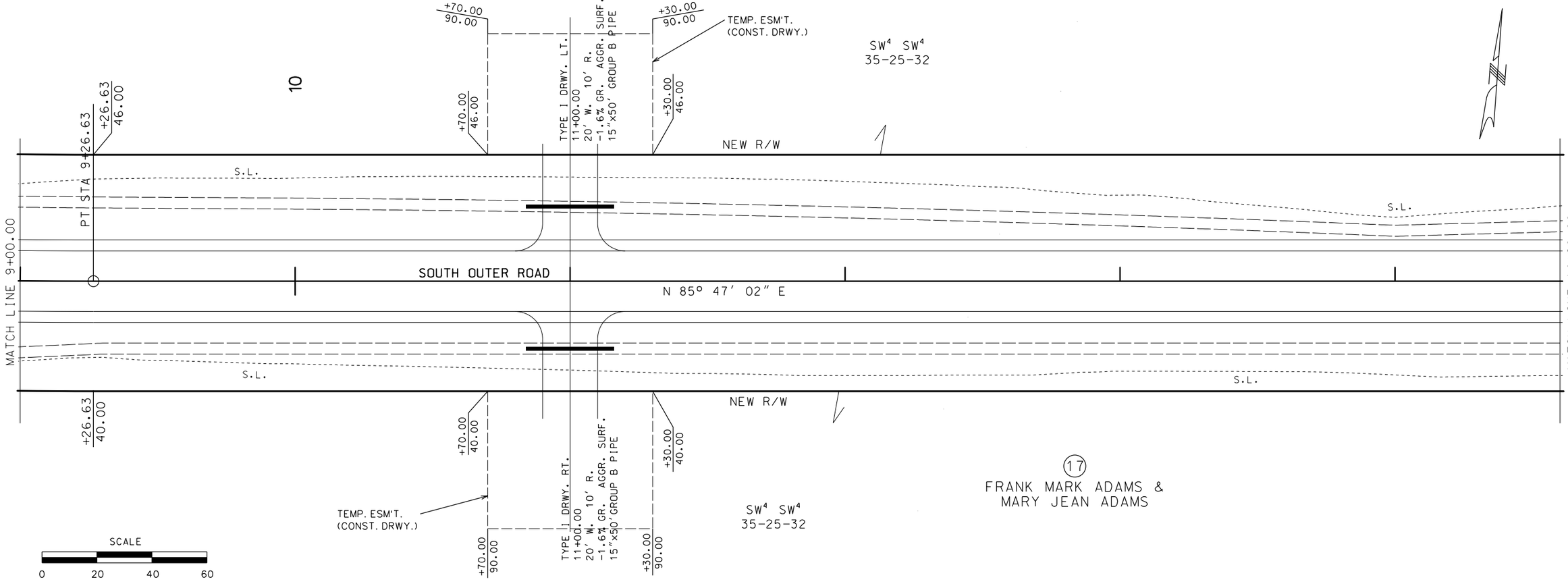

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	12/18/2015
ROUTE	60
STATE	MO
DISTRICT	SW
SHEET NO.	PP038
COUNTY	NEWTON
JOB NO.	J7P2178
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(33)
BRIDGE NO.	

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

FINAL PLANS

REV.

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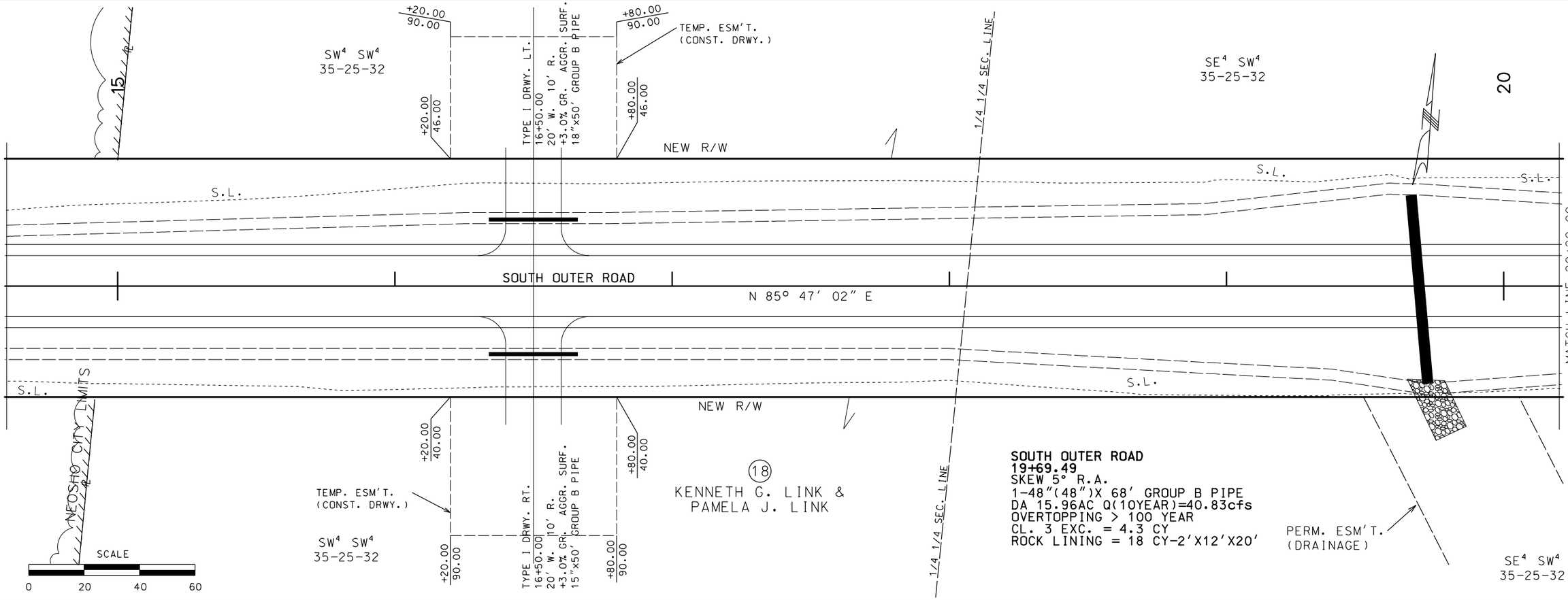

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	12/18/2015
ROUTE	60
STATE	MO
DISTRICT	SW
SHEET NO.	PP039
COUNTY	NEWTON
JOB NO.	J7P2178
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(33)
BRIDGE NO.	

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

FINAL PLANS

REV.

J:\DOCS\150123-G01_Neosho_TDD\As_Builds\J7P2178\004_PP_039_J7P2178_020.dgn 12:13:05 PM 12/18/2015

NEOSHO CITY LIMITS

PP

+15.36
205.00

TEMP. ESM'T.
(CLEARING & GRUBBING)

+82.16
205.00

NEOSHO CITY LIMITS

15

20

SW⁴ SW⁴
35-25-32

(18)
KENNETH G. LINK &
PAMELA J. LINK

SE⁴ SW⁴
35-25-32

+00.09
46.00

TEMP. ESM'T.
(CONST. DRWY.)
SEE PREVIOUS SHEET

TYPE I DRWY. LT.
16+50.00 RT.
20' W. 10' R.
+3.0% GR. AGGR. SURF.
18"x 50' GROUP B PIPE

1/4 1/4 SEC. LINE

+66.76
46.00

NEW R/W

S.L.

S.L.

S.L.

SOUTH OUTER ROAD
N 85° 47' 02" E

S.L.

S.L.

S.L.

NEW R/W

+91.82
40.00

TEMP. ESM'T.
(CONST. DRWY.)
SEE PREVIOUS SHEET

TYPE I DRWY. RT.
16+50.00
20' W. 10' R.
+3.0% GR. AGGR. SURF.
15"x 50' GROUP B PIPE

1/4 1/4 SEC. LINE

+49.41
40.00

+05.50
40.00

PERM. ESM'T.
(DRAINAGE)

+50.16
127.80

+05.59
150.47

+58.42
40.00

NEOSHO CITY LIMITS

SW⁴ SW⁴
35-25-32

SE⁴ SW⁴
35-25-32

SCALE

0 30 60 90

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/18/2015

ROUTE
60

STATE
MO

DISTRICT
SW

SHEET NO.
PP040

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

DESCRIPTION

DATE

NO.

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

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(18)
KENNETH G. LINK &
PAMELA J. LINK

SE^4 SW^4
35-25-32

℄

NEW R/W

S.L.

MATCH LINE 20+20.00

SOUTH OUTER ROAD

N 85° 47' 02" E

S.L.

NEW R/W

TEMP. ESM'T.
(CONST. DRWY.)

+21.73
90.00

+21.73
46.00

TYPE I DRWY. LT.
24+51.73
20' W. 10' R.
+1.7% GR.
AGGR. SURF.
15"x50'GROUP B PIPE

+81.73
90.00

+81.73
46.00

25

S.L.

MATCH LINE 25+80.00

S.L.

S.L.

PERM. ESM'T.
(DRAINAGE)

SCALE
0 20 40 60

℄ NEOSHO CITY LIMITS

SE^4 SW^4
35-25-32

(19)
FRANK AND BONNIE ADAMS

+21.73
40.00

+21.73
90.00

TYPE I DRWY. RT.
24+51.73
20' W. 10' R.
-4.1% GR.
AGGR. SURF.
GROUP B PIPE

+81.73
40.00

+81.73
90.00

TEMP. ESM'T.
(CONST. DRWY.)

1220
1210
1200
1190
1180
1170
1160

VPI 24+50.00
EL 1,196.40

-0.70% -1.20%

VPC 23+50.00

VPT 25+50.00

K = 402
200.00' V.C.

21 22 23 24 25

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/18/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	PP041

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

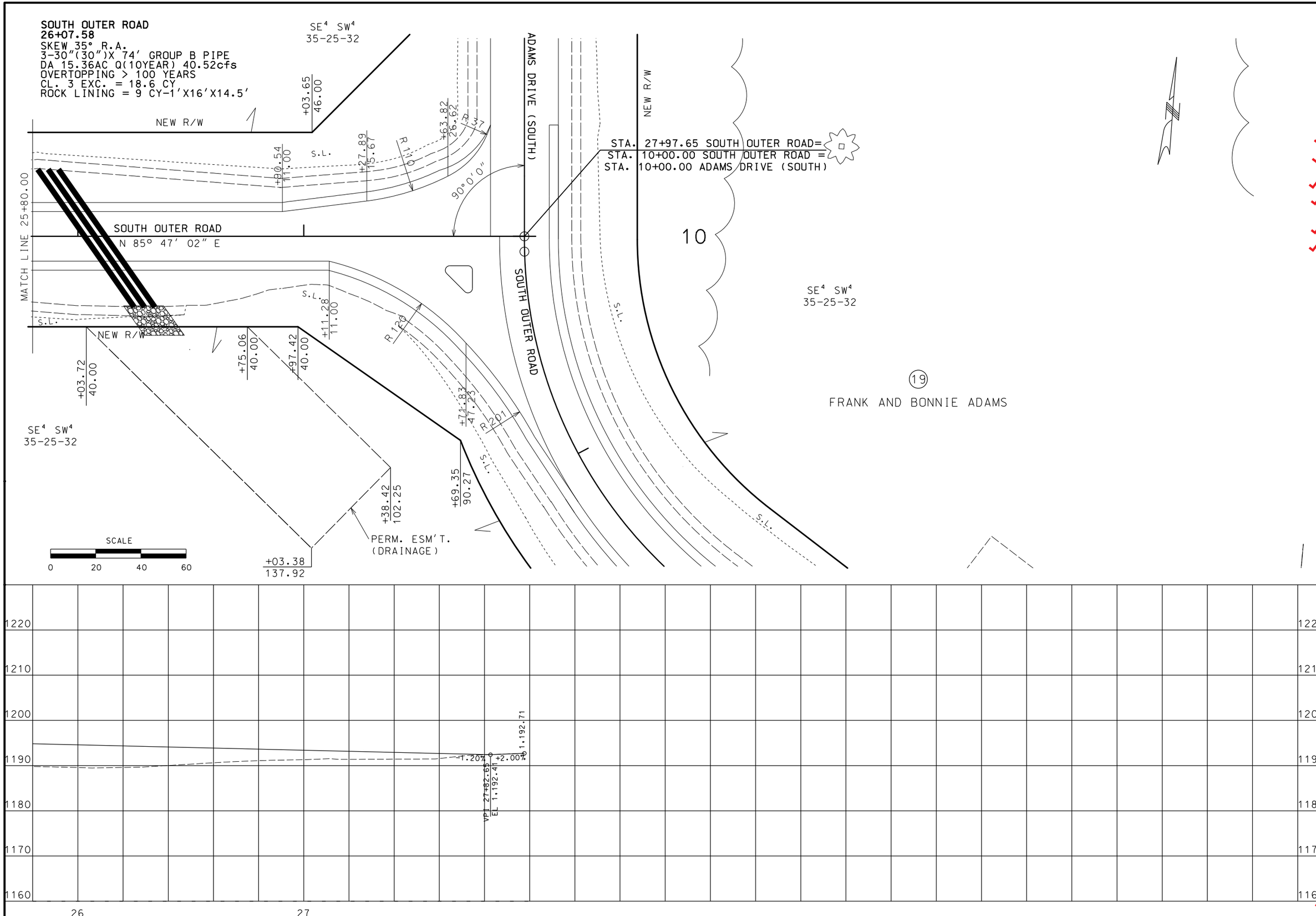
DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

REV.



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	12/18/2015
ROUTE 60	STATE MO
DISTRICT SW	SHEET NO. PP042
COUNTY	NEWTON
JOB NO.	J7P2178
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(33)
BRIDGE NO.	

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

FINAL PLANS

REV.

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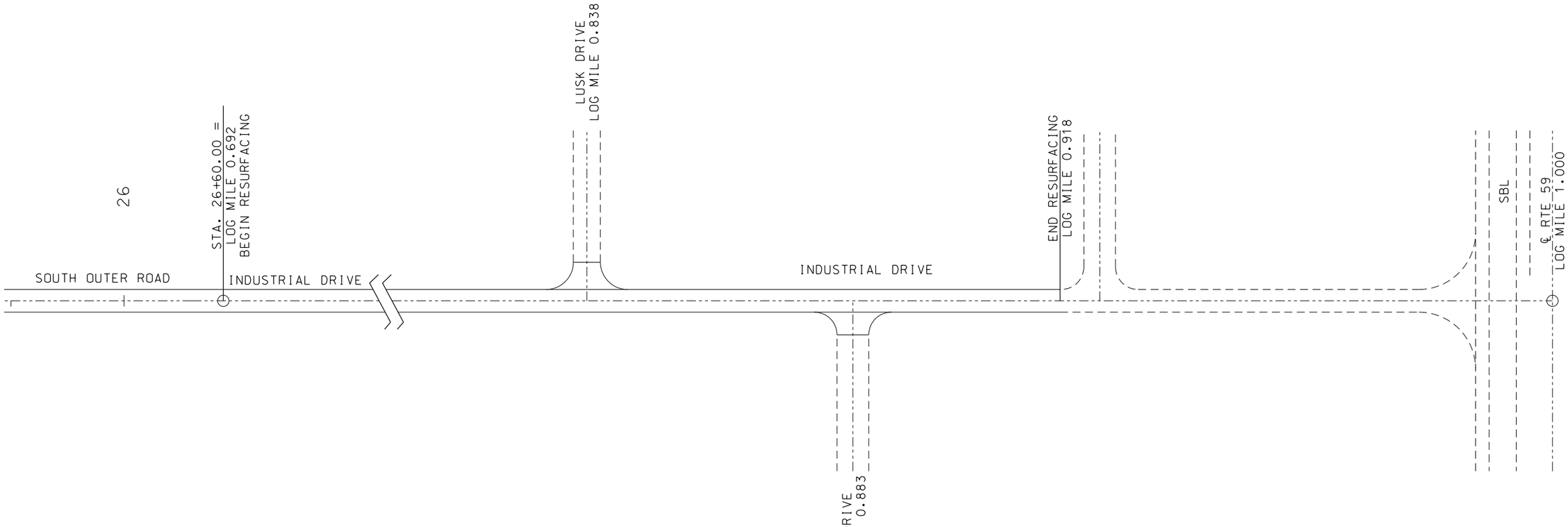
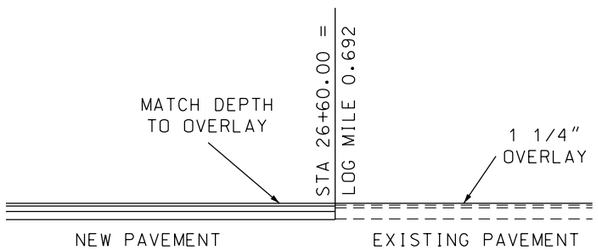
INDUSTRIAL DRIVE RESURFACING





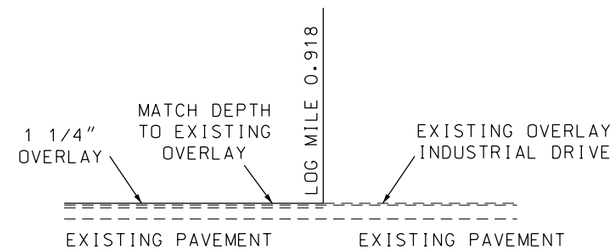
PAVEMENT DESIGN	
ASPHALT DESIGN	PCCP
2" BP-1 PG64-22 4" BIT BASE PG64-22 6" TYPE 1 AGGREGATE BASE	6" PCCP (15' JOINTS 1 1/4" DOWELS) 6" TYPE 1 AGGREGATE BASE

SOUTH OUTER ROAD
STA. 9+50.74 TO STA. 25+60.00

PAVEMENT DESIGN
ASPHALT OVERLAY
1 1/4" BP-2 PG64-22 TACK

INDUSTRIAL DRIVE RESURFACING
LOG MILE 0.617 TO LOG MILE 0.918

BEGIN RESURFACING



END RESURFACING

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED: 12/14/2015
ROUTE: 60 | STATE: MO
DISTRICT: SW | SHEET NO.: PP043
COUNTY: NEWTON
JOB NO.: J7P2178
CONTRACT ID.: 150123-G01
PROJECT NO.: FAF-60-1(33)
BRIDGE NO.:

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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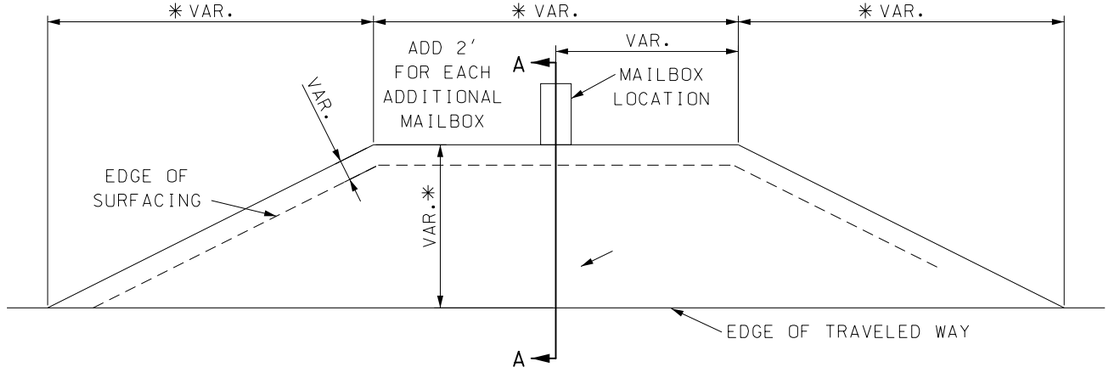
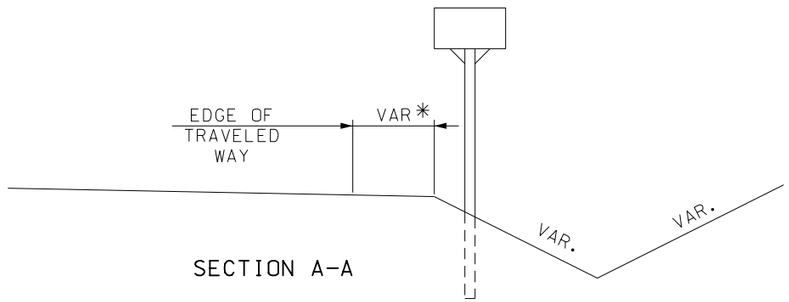
INDUSTRIAL DRIVE RESURFACING

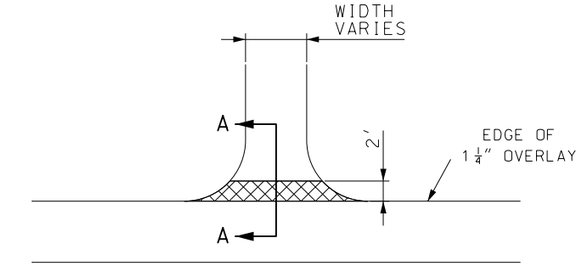


4 MAILBOXES

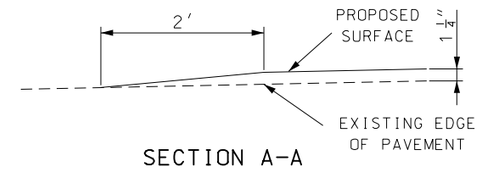


TYPICAL MAILBOX TURNOUT

✳ TO BE APPROVED BY THE ENGINEER
QUANTITY COVERED BY IRREGULARITIES



ENTRANCES
3 PAVED
5 AGGR.



TYPICAL ENTRANCE – NO SHOULDER
(FIELD, PRIVATE, OR COMMERCIAL)

NOT TO SCALE

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/14/2015
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. PP044
COUNTY NEWTON
JOB NO. J7P2178
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(33)
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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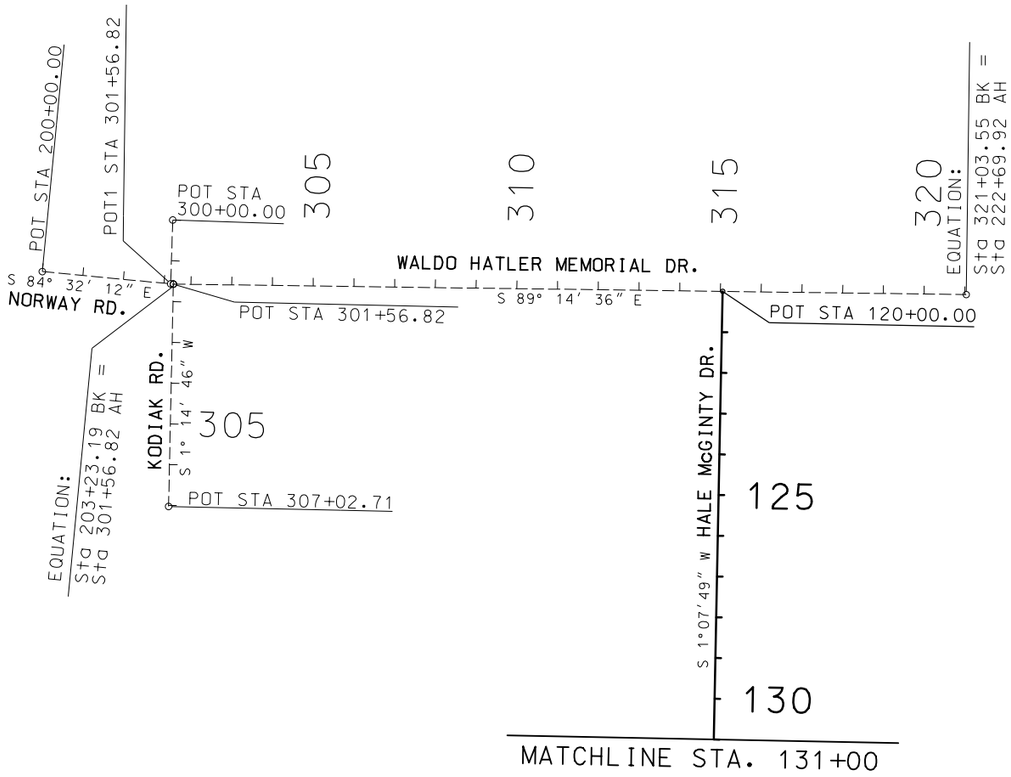
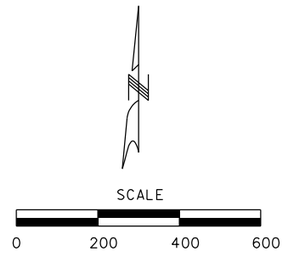




"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
1/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	GM001

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

DESCRIPTION	DATE

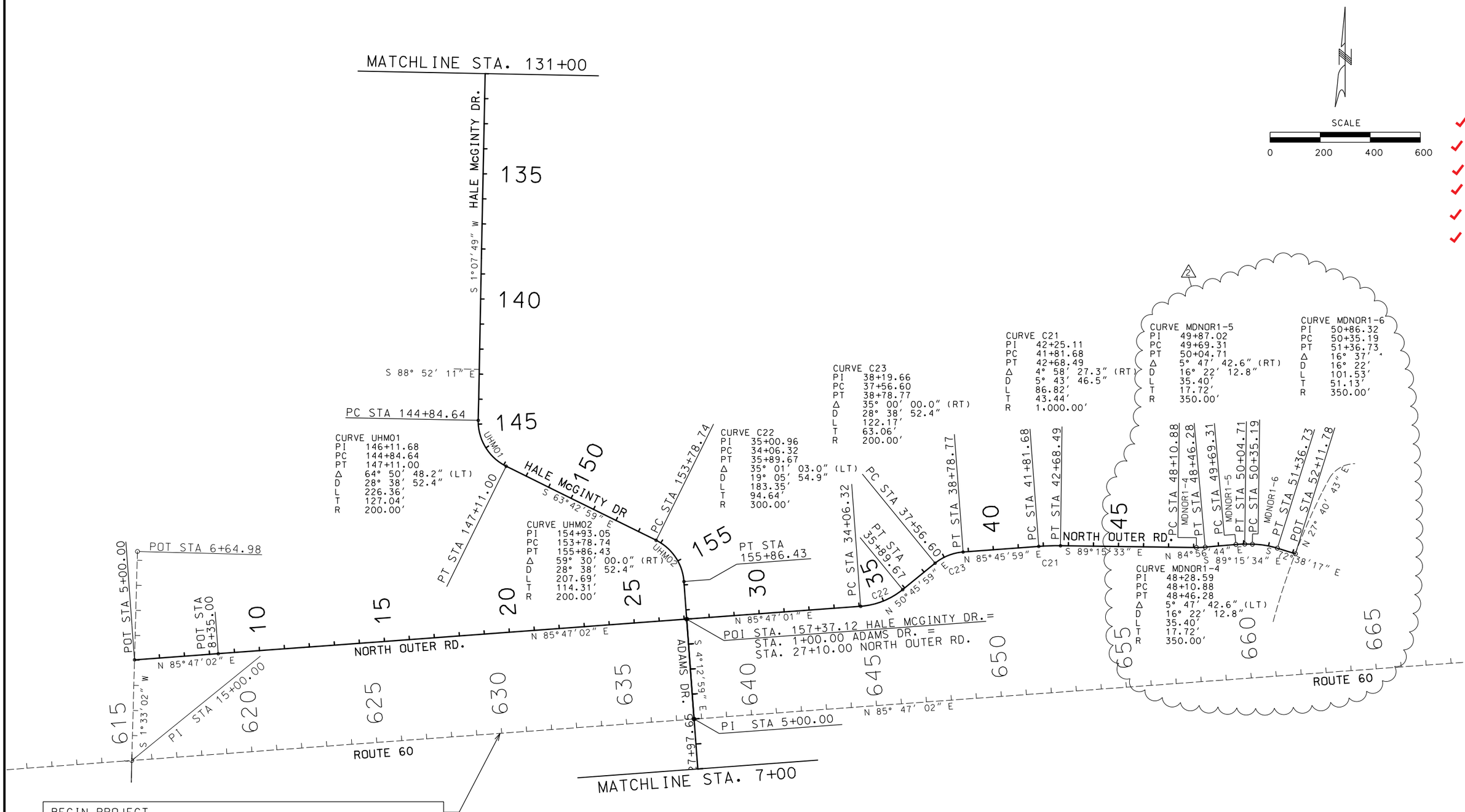
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

GEOMETRY SHEET
SHEET 1 OF 5

FINAL PLANS

REV.



BEGIN PROJECT

℄ ROUTE 60 STA. 629+93.28
IMPROVEMENTS BEGIN AT A POINT SOUTH 18 DEGREES 32 MINUTES 40 SECONDS WEST, 3942.13 FEET FROM AN IRON PIN WITH AN ALUMINUM CAP AT THE NORTHEAST CORNER OF THE NORTHWEST QUARTER OF SECTION 35 IN TOWNSHIP 25 NORTH, RANGE 32 WEST, IN NEWTON COUNTY, MISSOURI. AS SURVEYED BY JAMES LONCARICH, LAND SURVEYOR NUMBER 2163, AND RECORDED WITH THE MISSOURI DEPARTMENT OF AGRICULTURE LAND SURVEY PROGRAM. CERTIFIED LAND CORNER DOCUMENT NUMBER 600-91518 ON JUNE 10, 2011.

GEOMETRY SHEET
SHEET 2 OF 5

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	1/7/2016
ROUTE	60
STATE	MO
DISTRICT	SW
SHEET NO.	GM002
COUNTY	NEWTON
JOB NO.	J7P2178
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(33)
BRIDGE NO.	

DATE	DESCRIPTION
3/19/15	2 ALIGNMENT CHANGE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

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REV.

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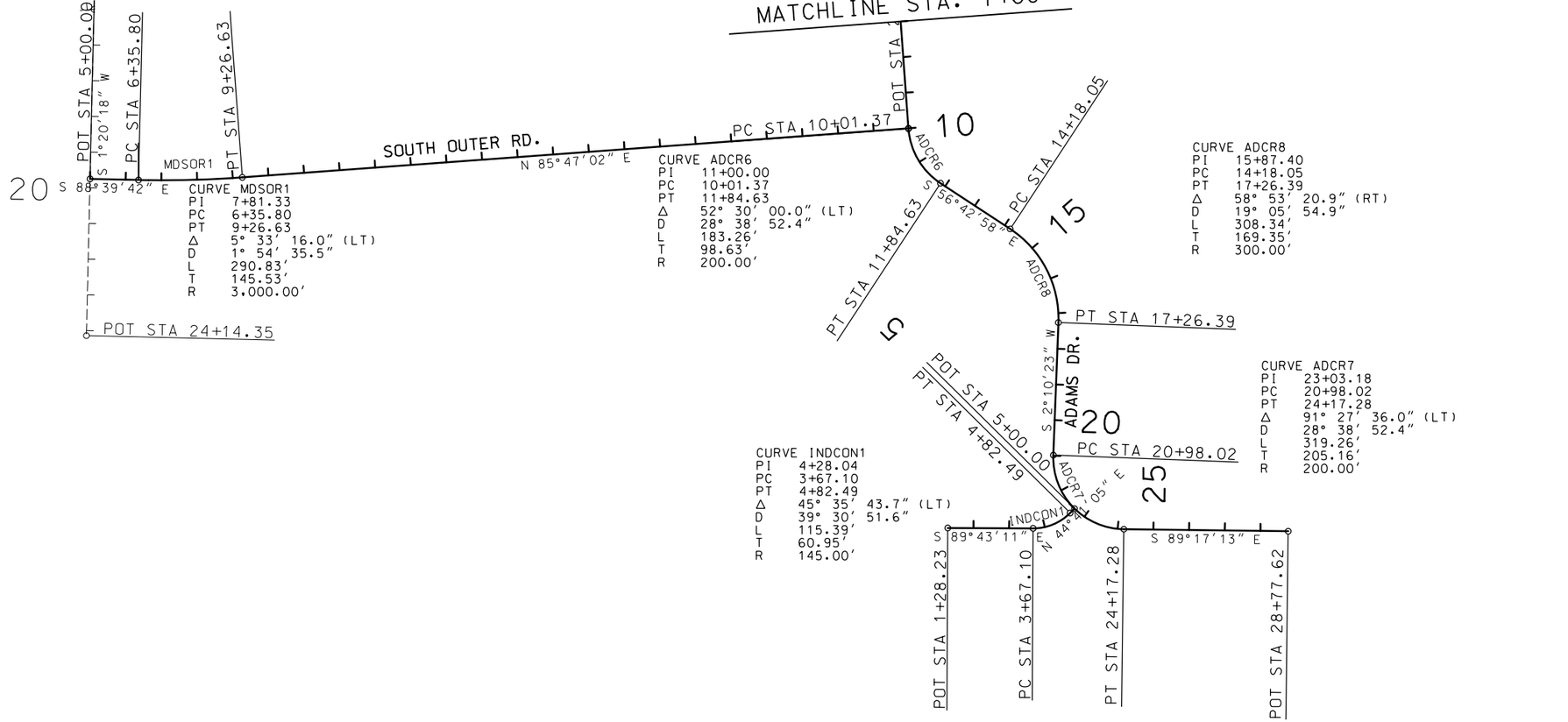

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
1/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	GM003

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

✓ GEOMETRY SHEET
SHEET 3 OF 5

FINAL PLANS

REV.

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Missouri Coordinate System of 1983

POINT	ROADWAY	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
101	NORTH OUTER ROAD	5+00.00	0	245,744.6900	2,815,062.6600	POT
102	NORTH OUTER ROAD	8+35.00	0	245,769.3200	2,815,396.7600	POT
123	NORTH OUTER ROAD	27+10.00	0	245,907.1600	2,817,266.6800	INTERSECTION OF NORTH FRONTAGE RD & HALE MCGINTY DR
103	NORTH OUTER ROAD	34+06.32	0	245,958.3500	2,817,961.1200	PC CURVE C22
104	NORTH OUTER ROAD	34+06.32	300.00' LT	246,257.5400	2,817,939.0600	RADIUS POINT CURVE C22
125	NORTH OUTER ROAD	34+97.99	14.57' RT	245,965.3100	2,818,055.5000	PI CURVE C22
105	NORTH OUTER ROAD	35+89.67	0	246,025.1700	2,818,128.8100	PT CURVE C22
106	NORTH OUTER ROAD	37+56.60	0	246,130.7500	2,818,258.1100	PC CURVE C23
107	NORTH OUTER ROAD	37+56.60	200.00' RT	245,975.8300	2,818,384.6000	RADIUS POINT CURVE C23
126	NORTH OUTER ROAD	38+17.69	9.70' LT	246,170.6300	2,818,306.9500	PI CURVE C23
108	NORTH OUTER ROAD	38+78.77	0	246,175.2900	2,818,369.8400	PT CURVE C23
109	NORTH OUTER ROAD	41+81.68	0	246,197.6500	2,818,671.9200	PC CURVE C21
110	NORTH OUTER ROAD	41+81.68	1000.00' RT	245,200.3800	2,818,745.7400	RADIUS POINT CURVE C21
127	NORTH OUTER ROAD	42+25.09	0.95' LT	246,200.8600	2,818,715.2300	PI CURVE C21
111	NORTH OUTER ROAD	42+68.49	0	246,200.3000	2,818,758.6700	PT CURVE C21
401	NORTH OUTER ROAD	48+10.88	0	246,193.2800	2,819,301.0000	PC CURVE MDNOR1-4
402	NORTH OUTER ROAD	48+10.88	350.00' LT	246,543.2500	2,819,305.5300	RADIUS POINT CURVE MDNOR1-4
403	NORTH OUTER ROAD	48+28.58	0.45' RT	246,193.0600	2,819,318.7200	PI CURVE MDNOR1-4
404	NORTH OUTER ROAD	48+46.28	0	246,194.6200	2,819,336.3600	PT CURVE MDNOR1-4
405	NORTH OUTER ROAD	49+69.31	0	246,205.4600	2,819,458.9100	PC CURVE MDNOR1-5
406	NORTH OUTER ROAD	49+69.31	350.00' RT	245,856.8200	2,819,489.7500	RADIUS POINT CURVE MDNOR1-5
407	NORTH OUTER ROAD	49+87.01	0.45' LT	246,207.0200	2,819,476.5600	PI CURVE MDNOR1-5
408	NORTH OUTER ROAD	50+04.71	0	246,206.7900	2,819,494.2700	PT CURVE MDNOR1-5
409	NORTH OUTER ROAD	50+35.19	0	246,206.3900	2,819,524.7600	PC CURVE MDNOR1-6
410	NORTH OUTER ROAD	50+35.19	350.00' RT	245,856.4200	2,819,520.2400	RADIUS POINT CURVE MDNOR1-6
411	NORTH OUTER ROAD	50+85.96	3.71' LT	246,205.7300	2,819,575.8800	PI CURVE MDNOR1-6
412	NORTH OUTER ROAD	51+36.73	0	246,190.4800	2,819,624.6800	PT CURVE MDNOR1-6
115	NORTH OUTER ROAD	52+11.78	0	246,168.0800	2,819,696.3100	POT
116	HALE MCGINTY DRIVE	120+00.00	0	249,185.1700	2,816,483.6100	POT
117	HALE MCGINTY DRIVE	144+84.64	0	246,701.0200	2,816,434.6100	PC CURVE UHM01
118	HALE MCGINTY DRIVE	144+84.64	200.00' LT	246,697.0700	2,816,634.5700	RADIUS POINT CURVE UHM01
129	HALE MCGINTY DRIVE	145+97.38	37.27' RT	246,574.2800	2,816,431.5400	PI CURVE UHM01
119	HALE MCGINTY DRIVE	147+11.00	0	246,517.7500	2,816,546.0100	PT CURVE UHM01
120	HALE MCGINTY DRIVE	153+78.74	0	246,222.0600	2,817,144.7100	PC CURVE HMCR1
121	HALE MCGINTY DRIVE	153+78.74	200.00' RT	246,042.7400	2,817,056.1500	RADIUS POINT CURVE HMCR1
130	HALE MCGINTY DRIVE	154+82.58	30.36' LT	246,171.4400	2,817,247.2000	PI CURVE HMCR1
122	HALE MCGINTY DRIVE	155+86.43	0	246,057.4400	2,817,255.6000	PT CURVE HMCR1
123	HALE MCGINTY DRIVE	157+37.12	0	245,907.1600	2,817,266.6800	POT
124	HALE MCGINTY DRIVE	161+37.12	0	245,508.2400	2,817,296.0900	POT
PC C18	RTE. US 60	605+89.24	C/L	245,264.9407	2,814,124.9618	BEGIN CURVE C18
CC C18	RTE. US 60	605+89.24	1877.76	243,415.6266	2,814,450.5471	CENTER OF CURVE C18
PI C18	RTE. US 60	606+83.78	-2.38	245,281.3456	2,814,218.1415	INTERSCTION OF TANGENTS CURVE C18
PT C18	RTE. US 60	607+78.31	C/L	245,288.3013	2,814,312.4981	BEGIN TANGENT CURVE C18
PC C19	RTE. US 60	684+78.14	C/L	245,854.3780	2,821,991.4969	BEGIN CURVE C19
CC C19	RTE. US 60	684+78.14	-5560.45	251,399.7772	2,821,582.7039	CENTER OF CURVE C19
PI C19	RTE. US 60	689+75.48	22.32	245,891.0390	2,822,488.8140	INTERSCTION OF TANGENTS CURVE C19
PT C19	RTE. US 60	694+72.82	C/L	246,015.6031	2,822,971.6723	BEGIN TANGENT CURVE C19
236	ADAMS DR.	1+00.00	C/L	245,907.1618	2,817,266.6827	BEGIN ALIGNMENT INT. NORTH OUTER RD.
212	ADAMS DR.	5+00.00	C/L	245,508.2445	2,817,296.0921	INTERSECTION US 60
PC ADCR5	SOUTH OUTER ROAD	10+01.37	C/L	245,008.2303	2,817,332.9519	BEGIN CURVE ADCR5
CC ADCR6	SOUTH OUTER ROAD	10+01.37	-200	245,022.9339	2,817,532.4107	CENTER OF CURVE ADCR6
PI ADCR6	SOUTH OUTER ROAD	10+93.00	23	244,909.8681	2,817,340.2029	INTERSECTION OF TANGENTS CURVE ADCR6
PTADCR6	SOUTH OUTER ROAD	11+84.63	C/L	244,855.7416	2,817,422.6530	BEGIN TANGENT CURVE ADCR6
PCADCR8	SOUTH OUTER ROAD	14+18.05	C/L	244,727.6457	2,817,617.7798	BEGIN CURVE ADCR8
CC ADCR8	SOUTH OUTER ROAD	14+18.05	300	244,476.8573	2,817,453.1433	CENTER OF CURVE ADCR8
PI ADCR8	SOUTH OUTER ROAD	15+72.22	-44.5	244,634.7090	2,817,759.3489	INTERSECTION OF TANGENTS CURVE ADCR8
PT ADCR8	SOUTH OUTER ROAD	17+26.39	C/L	244,465.4819	2,817,752.9276	BEGIN TANGENT CURVE ADCR8
PC ADCR7	SOUTH OUTER ROAD	20+98.02	C/L	244,094.1180	2,817,738.8361	BEGIN CURVE ADCR7
CCADCR7	SOUTH OUTER ROAD	20+98.02	-200	244,086.5344	2,817,938.6923	CENTER OF CURVE ADCR7
PI ADCR7	SOUTH OUTER ROAD	22+57.65	86.52	243,889.1031	2,817,731.0568	INTERSECTION OF TANGENTS ADCR7
PTADCR7	SOUTH OUTER ROAD	24+17.28	C/L	243,886.5499	2,817,936.2033	BEGIN TANGENT CURVE ADCR7
INDD8	SOUTH OUTER ROAD	28+77.62	C/L	243,880.8209	2,818,396.5076	END ALIGNMENT PI ON INDUSTRIAL DRIVE
SM40536	INDUSTRIAL CONN.	1+28.23	C/L	243,890.0187	2,817,443.0677	BEGIN ALIGNMENT PI ON INDUSTRIAL DRIVE
PC INDCON1	INDUSTRIAL CONN.	3+67.10	C/L	243,888.8504	2,817,681.9319	BEGIN CURVE INDCON1
CC INDCON1	INDUSTRIAL CONN.	3+67.10	-145	244,033.8487	2,817,682.6411	CENTER OF CURVE INDCON1
PI INDCON1	INDUSTRIAL CONN.	4+24.79	12.29	243,888.5523	2,817,742.8768	INTERSECTION OF TANGENTS CURVE INDCON1
PT INDCON1	INDUSTRIAL CONN.	4+82.49	C/L	243,931.8838	2,817,785.7341	BEGIN TANGENT CURV INDCON1
252	INDUSTRIAL CONN.	5+00.00	C/L	243,944.3371	2,817,798.0511	END ALIGNMENT INT. ON SOUTH OUTER ROAD
223	SOUTH OUTER ROAD	5+00.00	C/L	244,867.9155	2,815,040.5038	BEGIN ALIGNMENT INT. KODIAK RD.
PC MDSOR1	SOUTH OUTER ROAD	6+35.80	C/L	244,864.7437	2,815,176.2674	BEGIN CURB MDSOR1
CC MDSOR1	SOUTH OUTER ROAD	6+35.80	-3000	247,863.9253	2,815,246.3373	CENTER OF CURVE MDSOR1
PI MDSOR1	SOUTH OUTER ROAD	7+81.22	3.53	244,861.3446	2,815,321.7565	INTERSECTION OF TANGENTS CURVE MDSOR1
PTMDSOR1	SOUTH OUTER ROAD	9+26.63	C/L	244,872.0436	2,815,466.8914	BEGIN TANGENT CURVE MDSOR1
225	SOUTH OUTER ROAD	27+97.65	C/L	245,009.5973	2,817,332.8489	END ALIGNMENT INT. ADAMS DRIVE.

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 1/7/2016

ROUTE 60 | STATE MO

DISTRICT SW | SHEET NO. GM004

COUNTY NEWTON

JOB NO. J7P2178

CONTRACT ID. 150123-G01

PROJECT NO. FAF-60-1(33)

BRIDGE NO.

DESCRIPTION	DATE
2 ALIGNMENT CHANGE	3/19/15

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

COORDINATE POINTS
SHEET 4 OF 5

FINAL PLANS

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

J:\DOCS\150123-G01_Neosho_TDD\As_Builds\J7P2178\005_GM_004_J7P2178_001.dgn 9:44:46 AM 1/7/2016

REFERENCE POINT
COORDINATE POINT LISTING
PROJECT COORDINATES

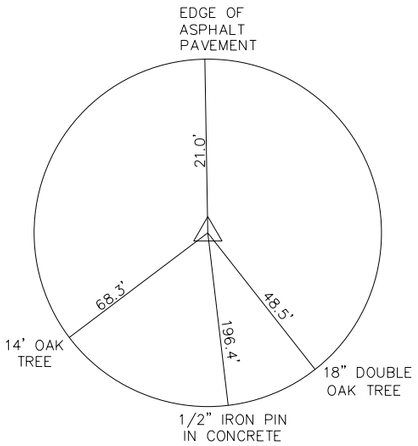
PROJECT COORDINATE SYSTEM IS BASED ON GROUND DISTANCES, AND IS TIED TO THE MISSOURI STATE PLANE COORDINATE SYSTEM OF 1983 WEST ZONE AT:

GEOGRAPHIC REFERENCE STATION "LAFLIN" ELEV: 1206.76
DATE OF ADJUSTMENT: 2007

VERTICAL DATUM: NAVD 1988

	STATE PLANE COORDINATES (METERS)		GROUND COORDINATES (FEET)
NORTHING	75,961.823 M	=	249,218.081 FT.
EASTING	857,578.297 M	=	2,817,333.656 FT.
ELEVATION	367.82 M	=	1206.76 FT.

5/8" REBAR CAPPED "MAI CP"

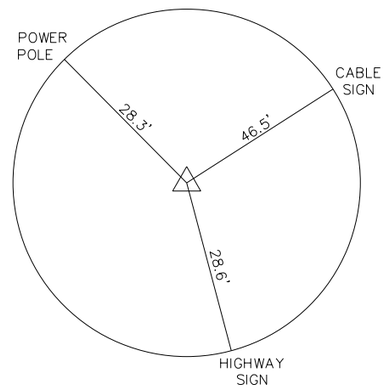


CONTROL POINT 5

N=245419.276
E=2816682.224

ELEV.=1204.40

5/8" REBAR CAPPED "MAI CP"

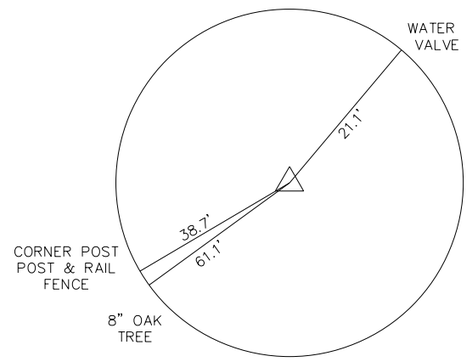


CONTROL POINT 6

N=245693.416
E=2818970.818

ELEV.=1198.94

5/8" REBAR CAPPED "MAI CP"



CONTROL POINT 7

N=245375.016
E=2821795.339

ELEV.=1223.27

REFERENCE TIES
SHEET 5 OF 5

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DATE PREPARED 1/7/2016
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. GM005
COUNTY NEWTON
JOB NO. J7P2178
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(33)
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

Independent Project Coordinate System

PAGE	STATION	LOCATION	OFFSET	NORTHING (FEET)	EASTING (FEET	DESCRIPTION	DESIGN PT. ID
ROUTE 60							
N/A	605+89.24	RTE. US 60	C/L	245264.940654	2814124.961830	BEGIN CURVE C18	PC C18
N/A	605+89.24	RTE. US 60	1877.76	243415.626571	2814450.547052	CENTER OF CURVE C18	CC C18
N/A	606+83.78	RTE. US 60	-2.38	245281.345606	2814218.141455	INTERSCTION OF TANGENTS CURVE C18	PI C18
N/A	607+78.31	RTE. US 60	C/L	245288.301346	2814312.498134	BEGIN TANGENT CURVE C18	PT C18
N/A	684+78.14	RTE. US 60	C/L	245854.378001	2821991.496902	BEGIN CURVE C19	PC C19
N/A	684+78.14	RTE. US 60	-5560.45	251399.777165	2821582.703893	CENTER OF CURVE C19	CC C19
N/A	689+75.48	RTE. US 60	22.32	245891.038979	2822488.814010	INTERSCTION OF TANGENTS CURVE C19	PI C19
N/A	694+72.82	RTE. US 60	C/L	246015.603095	2822971.672285	BEGIN TANGENT CURVE C19	PT C19
ADAMS DRIVE/SOUTH OUTER ROAD							
P030	1+00.00	ADAMS DR.	C/L	245907.161849	2817266.682653	BEGIN ALIGNMENT INT. NORTH OUTER RD.	236
P025	5+00.00	ADAMS DR.	C/L	245508.244459	2817296.092109	INTERSECTION US 60	212
P031	10+01.37	SOUTH OUTER RD.	C/L	245008.230310	2817332.951906	BEGIN CURVE ADCR5	PC ADCR5
NA	10+01.37	SOUTH OUTER RD.	-200.00	245022.933914	2817532.410684	CENTER OF CURVE ADCR6	CC ADCR6
P032	10+93.00	SOUTH OUTER RD.	23.00	244909.868126	2817340.202921	INTERSECTION OF TANGENTS CURVE ADCR6	PI ADCR6
P032	11+84.63	SOUTH OUTER RD.	C/L	244855.741639	2817422.653027	BEGIN TANGENT CURVE ADCR6	PTADCR6
P032	14+18.05	SOUTH OUTER RD.	C/L	244727.645674	2817617.779784	BEGIN CURVE ADCR8	PCADCR8
NA	14+18.05	SOUTH OUTER RD.	300.00	244476.857263	2817453.143298	CENTER OF CURVE ADCR8	CC ADCR8
P032	15+72.22	SOUTH OUTER RD.	-44.50	244634.708993	2817759.348907	INTERSECTION OF TANGENTS CURVE ADCR8	PI ADCR8
P033	17+26.39	SOUTH OUTER RD.	C/L	244465.481898	2817752.927556	BEGIN TANGENT CURVE ADCR8	PT ADCR8
P033	20+98.02	SOUTH OUTER RD.	C/L	244094.117962	2817738.836088	BEGIN CURVE ADCR7	PC ADCR7
NA	20+98.02	SOUTH OUTER RD.	-200.00	244086.534386	2817938.692260	CENTER OF CURVE ADCR7	CCADCR7
P034	22+57.65	SOUTH OUTER RD.	86.52	243889.103088	2817731.056764	INTERSECTION OF TANGENTS ADCR7	PI ADCR7
P034	24+17.28	SOUTH OUTER RD.	C/L	243886.549874	2817936.203291	BEGIN TANGENT CURVE ADCR7	PTADCR7
P035	28+77.62	SOUTH OUTER RD.	C/L	243880.820900	2818396.507600	END ALIGNMENT PI ON INDUSTRIAL DRIVE	INDD8
INDUSTRIAL CONNECTOR ROAD							
NA	1+28.23	INDUSTRIAL CONN.	C/L	243890.018700	2817443.067700	BEGIN ALIGNMENT PI ON INDUSTRIAL DRIVE	SM40536
P036	3+67.10	INDUSTRIAL CONN.	C/L	243888.850398	2817681.931881	BEGIN CURVE INDCON1	PC INDCON1
NA	3+67.10	INDUSTRIAL CONN.	-145.00	244033.848664	2817682.641077	CENTER OF CURVE INDCON1	CC INDCON1
P036	4+24.79	INDUSTRIAL CONN.	12.29	243888.552313	2817742.876783	INTERSECTION OF TANGENTS CURVE INDCON1	PI INDCON1
P036	4+82.49	INDUSTRIAL CONN.	C/L	243931.883827	2817785.734103	BEGIN TANGENT CURV INDCON1	PT INDCON1
P036	5+00.00	INDUSTRIAL CONN.	C/L	243944.337109	2817798.051104	END ALIGNMENT INT. ON SOUTH OUTER ROAD	252
SOUTH OUTER ROAD (KODIAK TO ADAMS)							
P037	5+00.00	SOUTH OUTER RD.	C/L	244867.915540	2815040.503762	BEGIN ALIGNMENT INT. KODIAK RD.	223
P037	6+35.80	SOUTH OUTER RD.	C/L	244864.743692	2815176.267401	BEGIN CURB MDSOR1	PC MDSOR1
NA	6+35.80	SOUTH OUTER RD.	-3000.00	247863.925281	2815246.337343	CENTER OF CURVE MDSOR1	CC MDSOR1
P037	7+81.22	SOUTH OUTER RD.	3.53	244861.344628	2815321.756461	INTERSECTION OF TANGENTS CURVE MDSOR1	PI MDSOR1
P038	9+26.63	SOUTH OUTER RD.	C/L	244872.043614	2815466.891405	BEGIN TANGENT CURVE MDSOR1	PTMDSOR1
P042	27+97.65	SOUTH OUTER RD.	C/L	245009.597349	2817332.848872	END ALIGNMENT INT. ADAMS DRIVE.	225

COORDINATE POINT SHEET
SHEET xx OF xx

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DATE PREPARED 1/7/2016

ROUTE 60 | STATE MO

DISTRICT SW | SHEET NO. GM005

COUNTY NEWTON

JOB NO. J7P2178

CONTRACT ID. 150123-G01

PROJECT NO. FAF-60-1(33)

BRIDGE NO.

DESCRIPTION | DATE

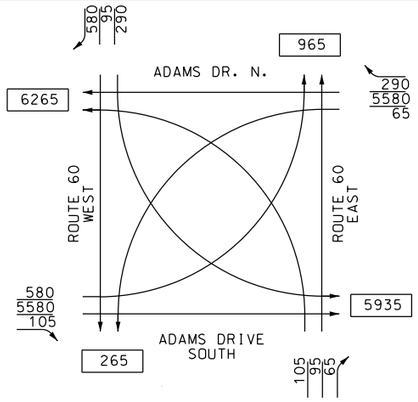
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

COORDINATE POINT SHEET
SHEET 1 OF 1

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



TRAFFIC FLOW DIAGRAM
ESTIMATED - 2035
TRAFFIC VOLUME

INTERCONNECT ADDED TO JOB
FROM I49 TO HOWARD BUSH DR./
HIGH ST.

ITEMS ADDED FOR THE INTERCONNECT
ARE AS FOLLOW:
LINE 5005 - CONTROLLER ASSEMBLY HOUSING - 8 EA.
LINE 5006 - MISC. RADIO UNIT - 8 EA
LINE 5007 - MISC. NETWORK SWITCH - 1 EA
LINE 5008 - PULL BOX, PERFORMED CLASS 5 - 2 EA

635

640

ADAMS DR. N 4° 12' 59.0" W
+1.00%
(35 MPH)
NO SIGNALS

TYPE 1 (POLE)
OVERHEAD POWER SOURCE

TYPE 2 POWER SUPPLY
WITH 120 VOLT LIGHTING CONTROLLER
STA. 638+54.52, 78.21' LT.

STA. 637+70.00 RTE. 60 =
STA. 5+00.00 ADAMS DRIVE

2100' NEXT SIGNALS

3200' NEXT SIGNALS

℄ RTE 60
N 85° 47' 02" E
-0.304%
(50 MPH)

-0.304%
(50 MPH)

DETECTION ZONE

ADAMS DR. S 4° 12' 57.9" E
-2.70%
(35 MPH)
NO SIGNALS

NO BUS STOPS
NO RAILROAD TRACKS
NO INTERCONNECTION
NO FIRE STATION
NO PARKING
NO SIGHT DISTANCE RESTRICTIONS

TRAFFIC SIGNALS LEGEND

CONTROLLER	VIDEO DETECTOR	CONDUIT MEDIAN
CONTROLLER (EXISTING)	PUSH BUTTON DETECTOR	CONDUIT PUSHED
JUNCTION BOX	PREFORMED PULL BOX TYPE 1	CONDUIT BRIDGE
POWER SOURCE	PREFORMED PULL BOX TYPE 2	CONDUIT EXISTING
POWER SUPPLY	PULL BOX TYPE 1	CONDUIT TRENCHED
WOOD POST	PULL BOX TYPE 2	SPAN WIRE
SIGNAL HEAD (OPT LIM CONV)	ITS PULL BOX TYPE 2	
SIGNAL HEAD (OPT LIM)	ITS PULL BOX TYPE 5	TYPE C MAST ARM A BASE
SIGNAL HEAD (PEDESTRIAN)	6 X 6 LOOP DETECTOR	TYPE C MAST ARM F BASE
SIGNAL HEAD (STANDARD)	6 X 15 LOOP DETECTOR	
	30 X 6 LOOP DETECTOR	

SCALE
0 20 40 60

SIGNAL & LIGHTING SHEET
US 60 & ADAMS DR.
SHEET 1 OF 6

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DATE PREPARED 12/18/2015
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. SG001
COUNTY NEWTON
JOB NO. J7P2178
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(33)
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNAL & LIGHTING SHEET
US 60 & ADAMS DR.
SHEET 1 OF 6

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

J:\DOCS\150123-G01_Neosho_TDD\As_Builds\J7P2178\008_SG_001_J7P2178_020.dgn 1:28:32 PM 12/18/2015

EFFECTIVE: 07/01/2013

LOCATION / BASE / PULL BOX / POST

POST NUMBER	PULL BOX NUMBER	APPROACH	STATION	OFFSET	BASE A (9 / 9.5 / 10 / 10.5 / 11 / 12)	BASE F (9 / 9.5 / 10 / 10.5 / 11 / 12)	BASE C	CONCRETE** (CU. YDS.)	PULL BOX PREFORMED CONCRETE CLASS 1	CLASS 2	CLASS 3	CLASS 5	STANDARD	DOUBLE, TYPE A	DOUBLE, TYPE B	DRAIN TYPE* I	DRAIN TYPE* II A	II B	II C	TOP MOUNT POST 8 FT.	TOP MOUNT POST 15 FT.	TYPE C & CL ARM LENGTH A	A	A	A	TYPE C & CL SIGNAL SPACING B	C	D	D'	TYPE C & CL SIGN SPACING B	C	D	D'	TYPE B & BL ARM LENGTH E	K	E	K	E	K	LEFT ARM E SIGNAL SPACING F	G	H	H'	LEFT ARM E SIGN SPACING F	G	H	H'	RIGHT ARM K SIGNAL SPACING L	M	N	N'	RIGHT ARM K SIGN SPACING L	M	N	N'	INCLUDED ANGLE	LUMINAIRE BRACKET ARM* 4 FT.	6 FT.	8 FT.	10 FT.	12 FT.	15 FT.
		CONTROLLER	638+44.96	75.17' LT.				1.93																																																				
1		US 60	637+94.69	27.10' LT.	1			2.88														25				11.9	10			3.6	15.3																															
2		US 60	637+93.14	24.55' RT.	1			2.88														25				12.3	9.5			4.4																															
3		US 60	637+45.92	25.37' RT.	1			2.88														25				11.3	10			3.6	14.7																															
4		US 60	637+46.87	24.45' LT.	1			2.88														25				12.1	9.0			5.6																															
	1	US 60	638+50.69	69.20' LT.							1						1																																									
	2	US 60	637+99.88	23.77' LT.							1					1																																									
	3	US 60	637+94.63	29.44' RT.						1						1																																									
	4	US 60	637+46.58	30.92' RT.					1								1																																								
	5	US 60	637+47.26	29.80' LT.					1							1																																									
				SUBTOTAL				13.45	2	1	2											4																																						
				TOTAL				13.4	2	1	2											4																																						

SIGNAL HEADS

| SPAN NUMBER | POST NUMBER | FACE NUMBER | LUMINAIRE 150W SODIUM | INDICATIONS * 12" LENS CONVENTIONAL R | Y | YL | RL | FYL | FYR | G | S | L | R+ | 12" LENS OPTICAL LIMITING R | Y | YL | YR+ | YL | YR+ | G | S | L | R+ | VISORS * 12" LENS | PED. | LOUVERS * A | B | C | D | E | F | BACKPLATE* NOTE 1 LENSES 1 | 2 | 3 | 4 | 5 | BRACKET* TYPE I | II | III | ONE-FACE SECTION 1- T | S | C | B | 3- T | S | C | B | 4- T | S | C | B | 5- T | S | C | B | TWO-FACE SECTIONS 11- T | S | B | 33- T | S | C | B | 34- S | B | 35- S | B | 44- S | B | 45- S | B |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---

EFFECTIVE: 07-01-2008

CONDUIT

FROM*	TO*	CTR. TO CTR. DIST.	LOOP **	TRENCHED			PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"	2"	3"	4"	2"	3"	4"	2"	3"	4"	
SOURCE	UPS	9		(9)												INCLUDED IN COST OF UPS
UPS	CA	10			14											
CA	PB1	9			24											2x9'
PB1	PB2	68			132											2x66'
PB2	PB3	54						52								
PB3	PB4	49			47											
PB2	PB5	53			51											
PB2	P1	6			9											
PB3	P2	5			8											
PB4	P3	4			7											
PB5	P4	5			8											
PB2	D41	7	6													
PB2	D70	12	11													
PB3	D21	8	7													
PB3	D50	10	9													
PB4	D81	12	11													
PB4	D30	8	7													
PB5	D61	6	5													
PB5	D10	10	9													
SUBTOTALS		65**	0	300	0	0	52	0	0	0	0	0	0	0	0	
PAY TOTALS		**	0	300	0	0	52	0	0	0	0	0	0	0	0	

CABLE

FROM*	TO*	CTR. TO CTR. DIST.	POWER		CONTROL				LIGHTING		DETECTOR **		FIBER	REMARKS
			1c-#2	1c-#8	2c-#16	5c-#16	7c-#16	12c-#12	CONTROL 2c-#12	POLE & BRACKET 1c-#10	1c-#14 IN DUCT	2c-#14 LEAD IN	24 FIBER SINGLEMODE	
SOURCE	UPS	9	(156)											3@ 52' INCL. IN COST OF UPS
UPS	CA	10		78										3x26'
CA	H50	83					147							
CA	H21,22	83					150							INCLUDES JUMPER
CA	H30	136					206							
CA	H81,82	136					209							INCLUDES JUMPER
CA	H10	184					259							
CA	H61,62	184					261							INCLUDES JUMPER
CA	H70	135					204							
CA	H41,42	135					208							INCLUDES JUMPER
CA	D41	77										94		
	D41	14									103			
CA	D70	77										94		
	D70	51									369			
CA	D21	131										154		
	D21	11									289			
CA	D50	131										154		
	D50	64									395			
CA	D81	180										209		
	D81	16									299			
CA	D30	180										209		
	D30	61									197			
CA	D61	130										153		
	D61	10									287			
CA	D10	130										153		
	D10	63									393			
SUBTOTALS			0	78	0	0	1644	0	0	0	2332**	1220**	0	
PAY TOTALS			0	80	0	0	1640	0	0	0	**	**	0	

* UPS = UNINTERRUPTIBLE POWER SOURCE
CA = CONTROLLER
PB = PULL BOX
P = POST
D = DETECTION ZONE

* H = SIGNAL HEAD
L = LUMINAIRE

** LOOP DETECTOR QUANTITIES ARE FOR INFORMATION ONLY AND NO DIRECT PAY.
SEE OPTIONAL TRAFFIC SIGNAL DETECTORS JSP.

*** ( ) MEANS INCL. IN COST OF UPS

INTERSECTION SIGNAL SHEET 3 OF 6
ROUTE 60 & ADAMS DRIVE

D-37B

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/14/2015
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. SG003
COUNTY NEWTON
JOB NO. J7P2178
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(33)
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

SIGNAL SHEET 3 OF 6
RTE. 60 & ADAMS DR.

FINAL PLANS

REV.

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
APPROACH	STATION	OFFSET	DRAWING 902.15	DRAWING	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
							SIGNALS	LIGHTING				
US 60	638+54.52	78.21' LT.	Type 2		15 Amps	2 Amps	50 Amps	50 Amps	1	15 Amps	Cl. 1 Ft. 30	EDE ELECTRIC
			Type		15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
							TYPE		12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
US 60	638+44.96	75.17' LT.			1							1					1					

FLASHING YELLOW ARROW (FYA) HAS REPLACED THE CIRCULAR GREEN BALL FOR THE PERMISSIVE MOVEMENT FOR LEFT TURNS. THE TURNING MOVEMENT FOR FYA OPERATION MUST HAVE A SEPARATE SIGNAL HEAD. SHARED INDICATIONS ARE NOT ALLOWED. A 'LEFT TURN YIELD ON FLASHING ARROW' (R10-27a) SIGN SHALL BE MOUNTED ADJACENT TO THE HEAD. THE NEW CABINET SHALL BE CONFIGURED FOR FYA OPERATION ON ALL LEFT TURNS.

UNINTERRUPTIBLE POWER SUPPLY

LOCATION	QUANTITY (EACH)	REMARKS
US 60, STA. 638+54.52, 78.21' LT.	1	MOUNT ON PROPOSED TYPE 2 POWER SUPPLY

OPTIONAL TRAFFIC SIGNAL DETECTOR SYSTEM

1

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

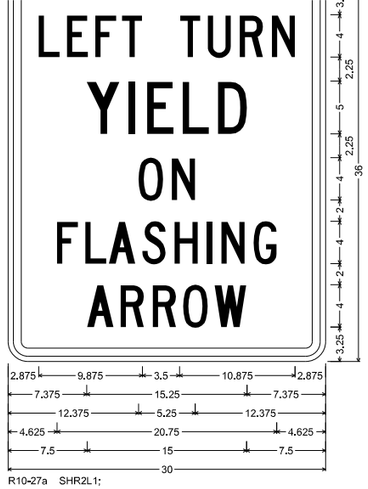
(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

FOR INFORMATION ONLY-
OPTIONAL TRAFFIC SIGNAL DETECTORS.
SEE SPECIAL PROVISIONS.

DETECTOR SCHEDULE

DETECTOR ZONE NUMBER	APPROACH	TYPE				
		PUSH BUTTON	INDUCTION LOOP (2)			VIDEO
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
10	HALE MCGINTY DR.		1			
21	ADAMS DR.		1			
30	US 60		1			
41	US 60		1			
50	ADAMS DR.		1			
61	HALE MCGINTY DR.		1			
70	US 60		1			
81	US 60		1			
TOTAL			8#			



R10-27a SHR2L1;
1.875" Radius, 0.750" Border, 0.500" Indent, Black on White;
[LEFT TURN] C; [YIELD] C; [ON] C; [FLASHING] C;
[ARROW] C;
Table of letter and object lefts.

L 2.875	E 5.500	F 8.250	T 10.750	T 16.250	U 18.875	R 21.875	N 24.875	
Y 7.375	I 11.375	E 13.125	L 16.500	D 19.875				
O 12.375	N 15.500							
F 4.625	L 7.250	A 9.500	S 12.750	H 15.750	I 18.750	N 20.125	G 23.250	
A 7.500	R 10.625	R 13.625	O 16.500	W 19.500				

SIGN NO.	4 & 5
STATION	637+65 & 637+75
ROADWAY	US 60

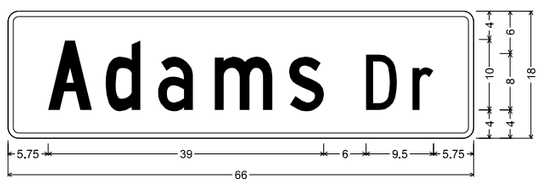
NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1		61	10		30	81		
	2		21	50		70	41		

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = 8 (2)

NEMA LOAD SWITCH ASSIGNMENTS

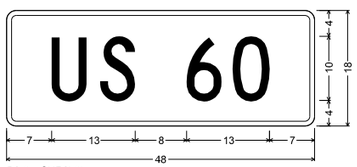
1	2	3	4	5	6	7	8	9	10	11	12
10	21/22	30	41/42	50	61/62	70	81/82				



D3-1 SHR2L1; 1.500" Radius, 0.750" Border, White on Green;
[Adams] C; [Dr] C;
Table of letter and object lefts.

A 5.750	d 13.875	a 21.250	m 29.375	s 39.875	D 50.750	r 57.375	

SIGN NO.	1 & 2
STATION	637+91.75 & 637+48.23
ROADWAY	US 60



D3-1 SHR2L1;
1.500" Radius, 0.750" Border, White on Green;
[US 60] C;
Table of letter and object lefts.

U 7.000	S 14.625	6 28.000	O 35.250

SIGN NO.	3
STATION	637+90.38
ROADWAY	US 60

N.T.S.

SIGNAL SHEET 4 OF 6
ROUTE 60 & ADAMS DRIVE
INTERSECTION

D-37C | FINAL PLANS

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/14/2015
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. SG004
COUNTY NEWTON
JOB NO. J7P2178
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(33)
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

SIGNAL SHEET
SHEET 4 OF 6

REV.

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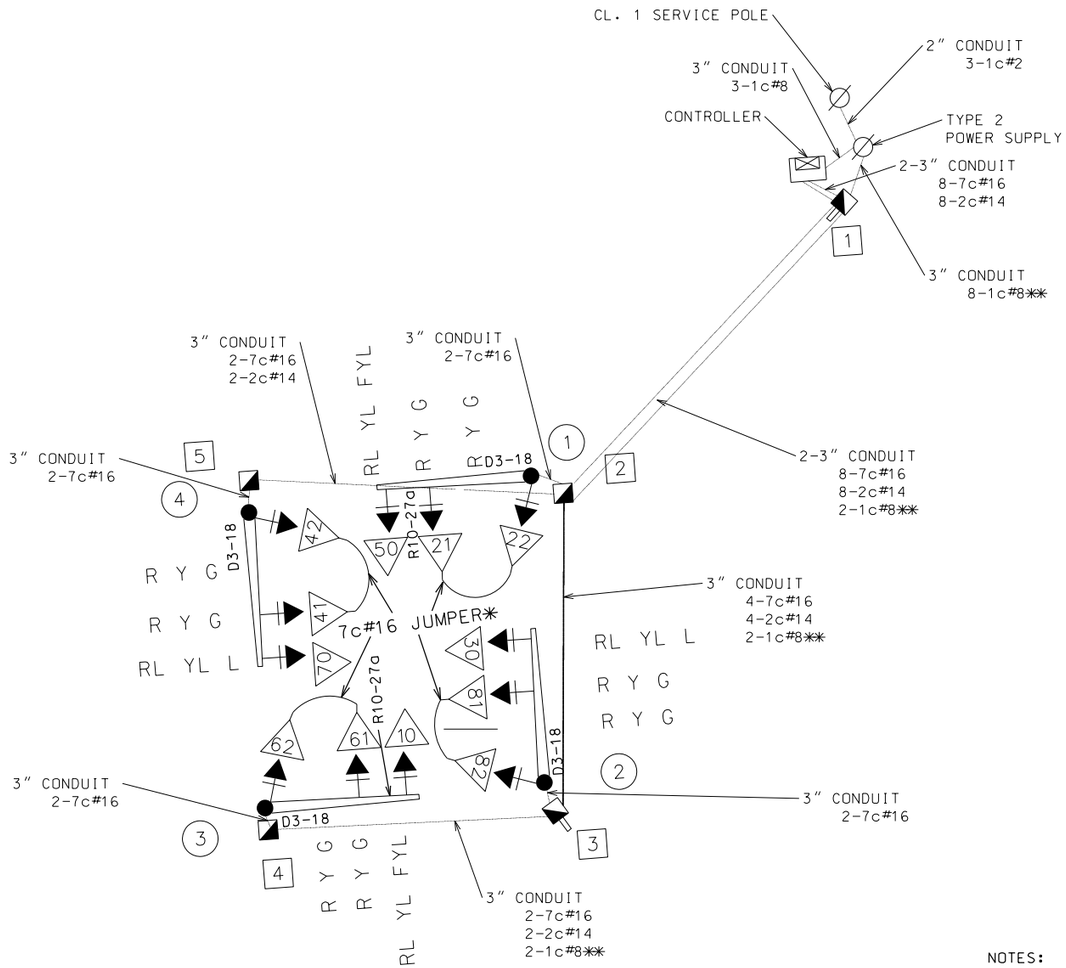
WIRING DIAGRAM



NOTES:
CONDUIT & PULL BOXES ARE SIZED FOR OPTIONAL TRAFFIC SIGNAL DETECTORS.

* THRU LANE SIGNAL CABLES SHALL RUN TO THE MAST ARM THEN JUMPER TO THE POST MOUNTED SIGNAL HEAD.

** LIGHTING POST LUMINAIRE CABLE

LEGEND

- 3" CONDUIT CONTAINING CABLE WITH SIZE
- CABLE
- X-Xc MULTI-CONDUCTOR CABLE #12 AWG (UNLESS OTHERWISE INDICATED)
- LIC #14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
- PULL BOX WITH NUMBER
- POST WITH NUMBER
- POST WITH MAST ARM
- POST WITH MAST ARM AND LUMINAIRE
- DETECTOR WITH NUMBER
- SIGNAL HEAD WITH NUMBER
- SIGNAL CONTROLLER
- POWER SUPPLY
- LIGHTING CONTROLLER

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/14/2015
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. SG005
COUNTY NEWTON
JOB NO. J7P2178
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(33)
BRIDGE NO.

DESCRIPTION | DATE

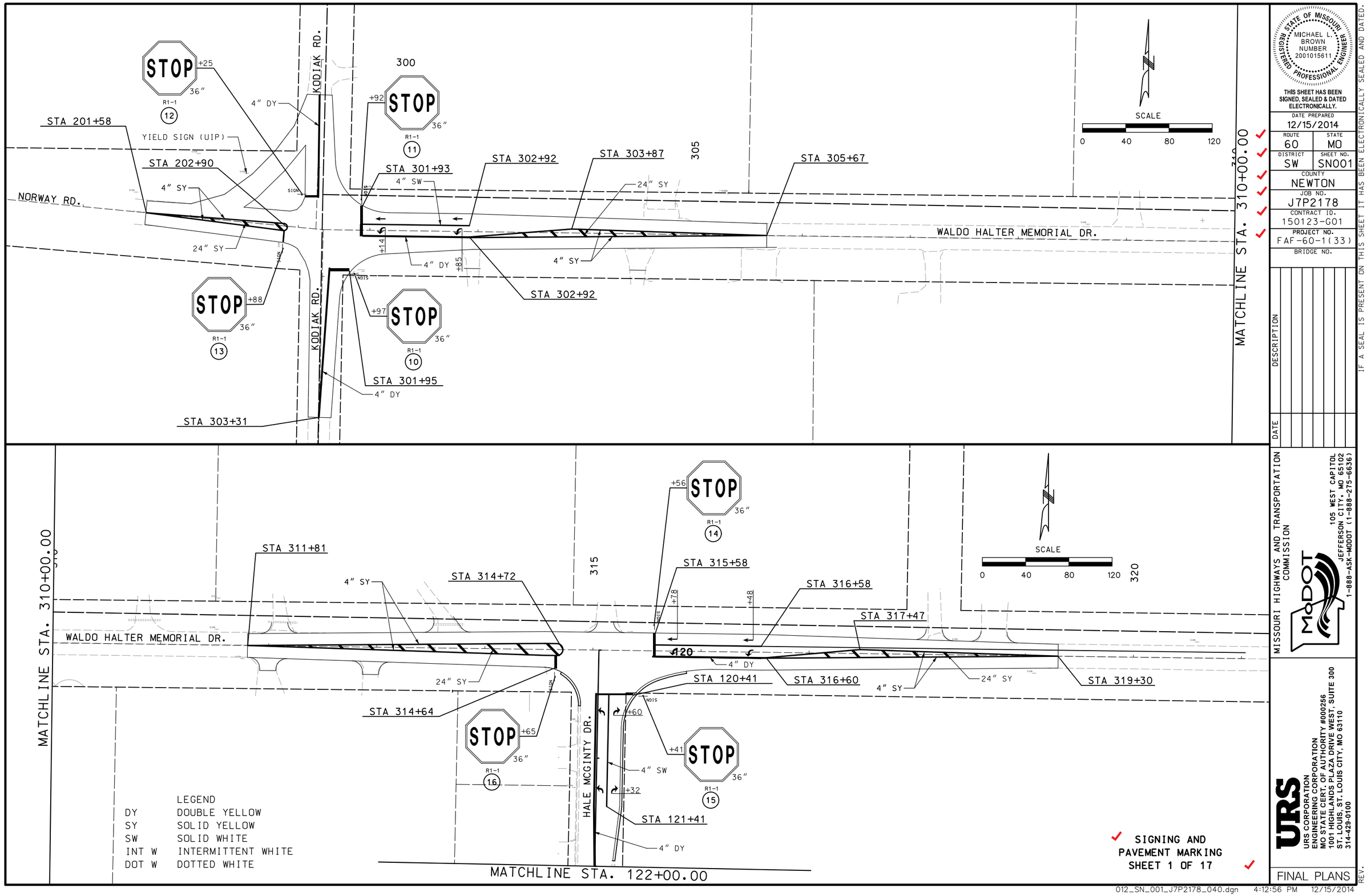
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

SIGNAL SHEET
SHEET 5 OF 6

✓ SIGNAL SHEET 5 OF 6
ROUTE 60 & ADAMS DRIVE
INTERSECTION

D-37D | FINAL PLANS | REV.



✓ SIGNING AND PAVEMENT MARKING SHEET 1 OF 17 ✓

STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
MICHAEL L. BROWN
NUMBER 2001015611

THIS SHEET HAS BEEN SIGNED, SEALED & DATED ELECTRONICALLY.

DATE PREPARED	12/15/2014
ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	SN001
COUNTY	NEWTON
JOB NO.	J7P2178
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(33)
BRIDGE NO.	

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

URS
URS CORPORATION
ENGINEERING CORPORATION
MO STATE CERT. OF AUTHORITY #000256
1001 HIGHLANDS PLAZA DRIVE WEST, SUITE 300
ST. LOUIS, ST. LOUIS CITY, MO 63110
314-429-0100

FINAL PLANS

REV.

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MATCHLINE STA. 142+00.00

SCALE
0 40 80 120

145

150

MATCHLINE STA. 154+00.00

4" DY

HALE MCGINTY DR.

+99
STOP
36"
R1-1
21

LEGEND

DY	DOUBLE YELLOW
SY	SOLID YELLOW
SW	SOLID WHITE
INT W	INTERMITTENT WHITE
DOT W	DOTTED WHITE

NORTH OUTER RD.

STA 27+53

+51
STOP
36"
R1-1
17

SIGN

155

4" DY

STA 155+00

HALE MCGINTY DR.

4" DY

4" DOT W

+96

4" SW

+96

STA 156+00

STA 157+00

MATCHLINE STA. 154+00.00

NORTH OUTER RD.

SCALE
0 40 80 120

4" SW

+73

+38

STA 2+42

5

STA 3+26

ADAMS DR.

4" DY

STA 1+63

NOTS

+69
STOP
36"
R1-1
18

STA 2+42

STA 26+67

SIGNING AND PAVEMENT MARKING
SHEET 3 OF 17

MICHAEL L. BROWN NUMBER 2001015611 REGISTERED PROFESSIONAL ENGINEER
STATE OF MISSOURI

THIS SHEET HAS BEEN SIGNED, SEALED & DATED ELECTRONICALLY.

DATE PREPARED 12/15/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	SN003

COUNTY: NEWTON

JOB NO.: J7P2178

CONTRACT ID.: 150123-G01

PROJECT NO.: FAF-60-1(33)

BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

URS
URS CORPORATION
ENGINEERING CORPORATION
MO STATE CERT. OF AUTHORITY #000256
1001 HIGHLANDS PLAZA DRIVE WEST, SUITE 300
ST. LOUIS, ST. LOUIS CITY, MO 63110
314-429-0100

FINAL PLANS

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LEGEND

DY	DOUBLE YELLOW
SY	SOLID YELLOW
SW	SOLID WHITE
INT W	INTERMITTENT WHITE
DOT W	DOTTED WHITE

SCALE
0 20 40 60

MATCHLINE STA. 46+75.00

50

NORTH OUTER RD.

STA 51+77

STA 51+65

4" SW (5' C-C @ 45°)

4" SW (4' C-C)

10'

5'

10'(TYP)

4" SW

10'(TYP)

10'(TYP)

4" SW

4" SW

FF=1203.9

STOP
+61
36"
R1-1
19

US 60

SIGNING AND PAVEMENT MARKING SHEET 4 OF 17

STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
MICHAEL L. BROWN
NUMBER 2001015611

THIS SHEET HAS BEEN SIGNED, SEALED & DATED ELECTRONICALLY.

DATE PREPARED
12/9/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	SN004

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

URS CORPORATION
ENGINEERING CORPORATION
MO STATE CERT. OF AUTHORITY #000256
1001 HIGHLANDS PLAZA DRIVE WEST, SUITE 300
ST. LOUIS, ST. LOUIS CITY, MO 63110
314-429-0100

FINAL PLANS

REV.

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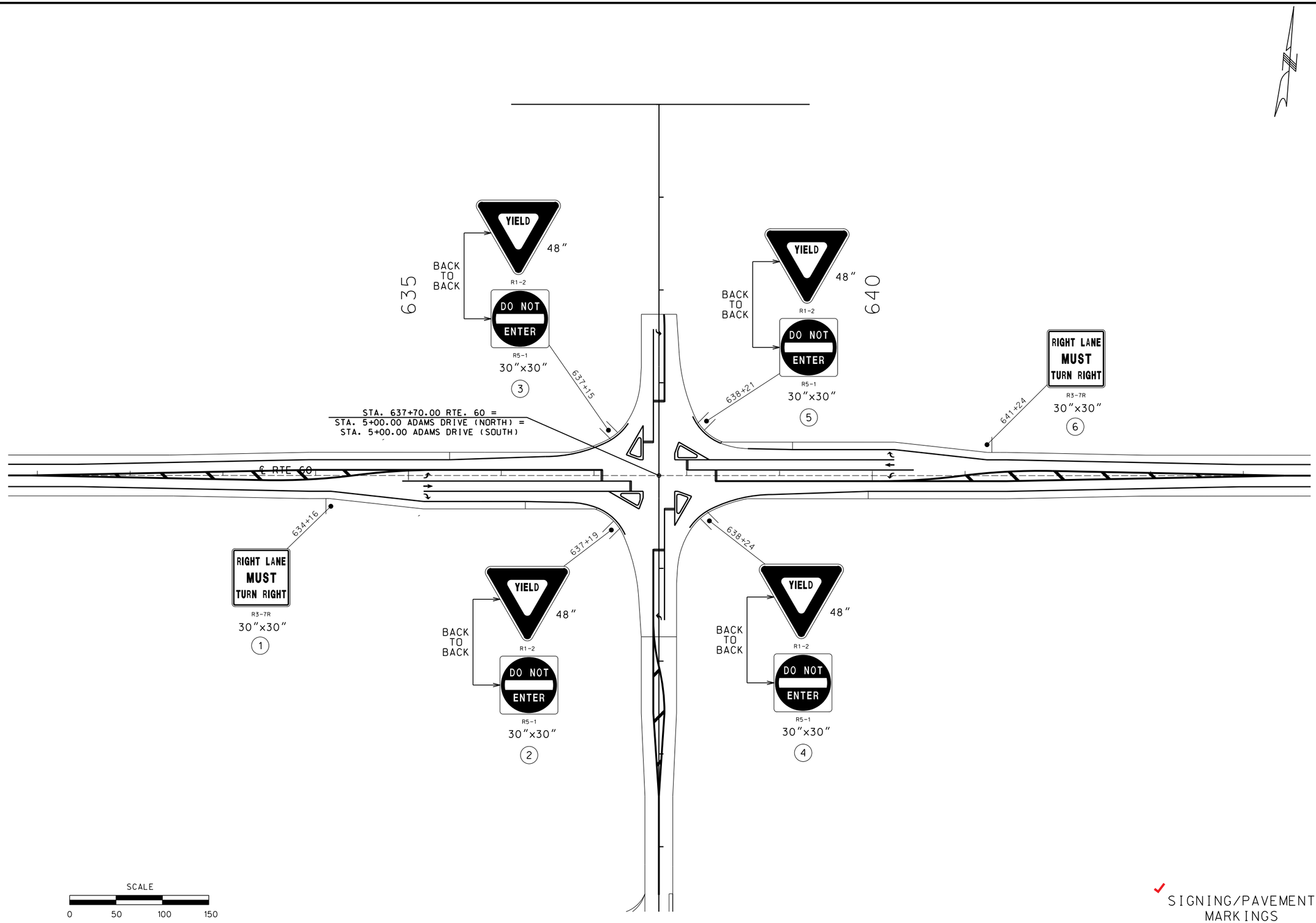


SIGNING/PAVEMENT
MARKINGS
SHEET 7 OF 17

STATE OF MISSOURI
JENNIFER A. THOMAS
NUMBER PE-2013030729
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
12/11/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	SN007

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

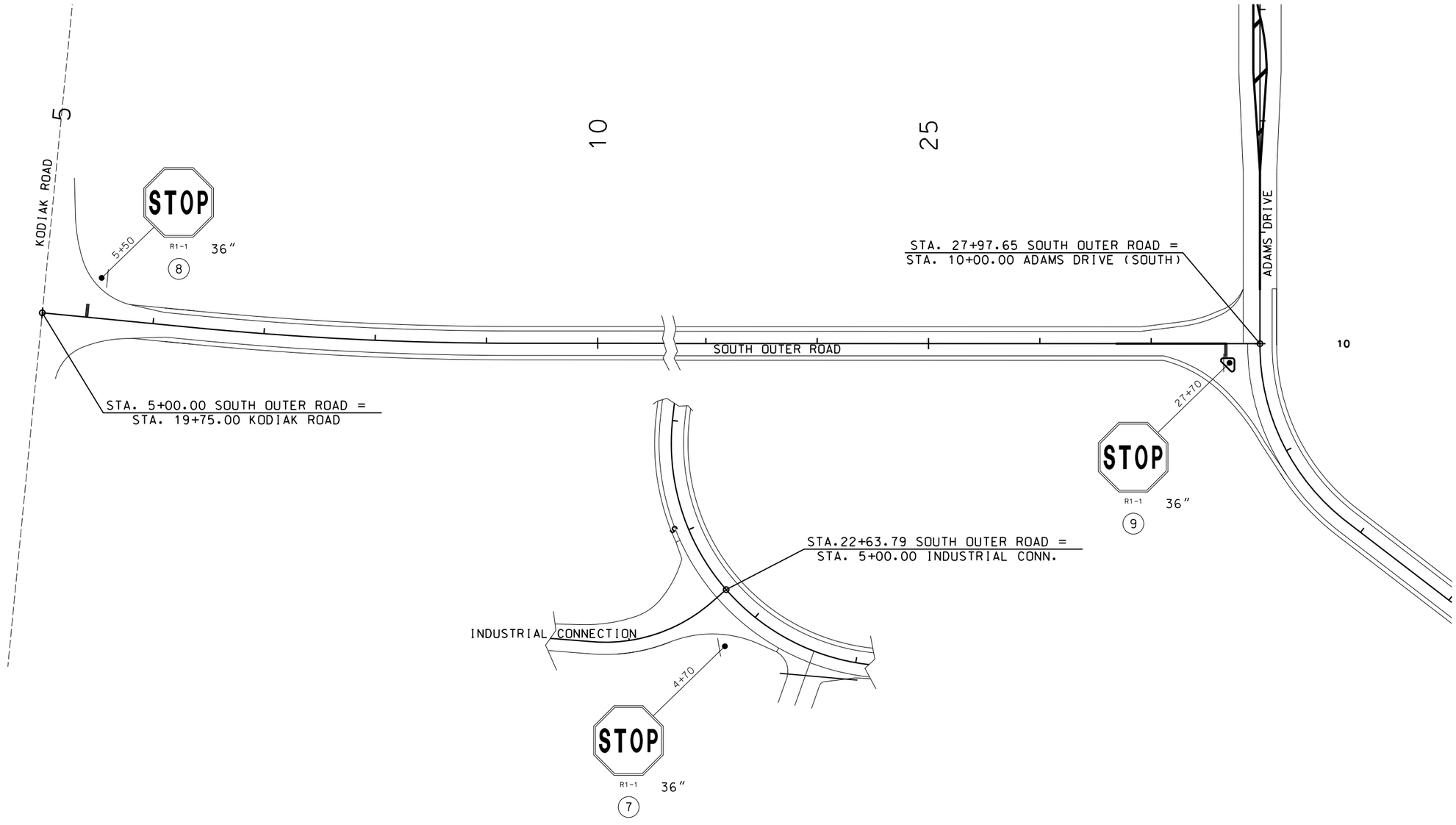
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS



SIGNING/PAVEMENT
MARKINGS
SHEET 8 OF 17

STATE OF MISSOURI
JENNIFER A. THOMAS
NUMBER PE-2013030729
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 12/11/2014

ROUTE	STATE
60	MO

DISTRICT	SHEET NO.
SW	SN008

COUNTY: NEWTON

JOB NO.: J7P2178

CONTRACT ID.: 150123-G01

PROJECT NO.: FAF-60-1(33)

BRIDGE NO.:

DESCRIPTION	DATE

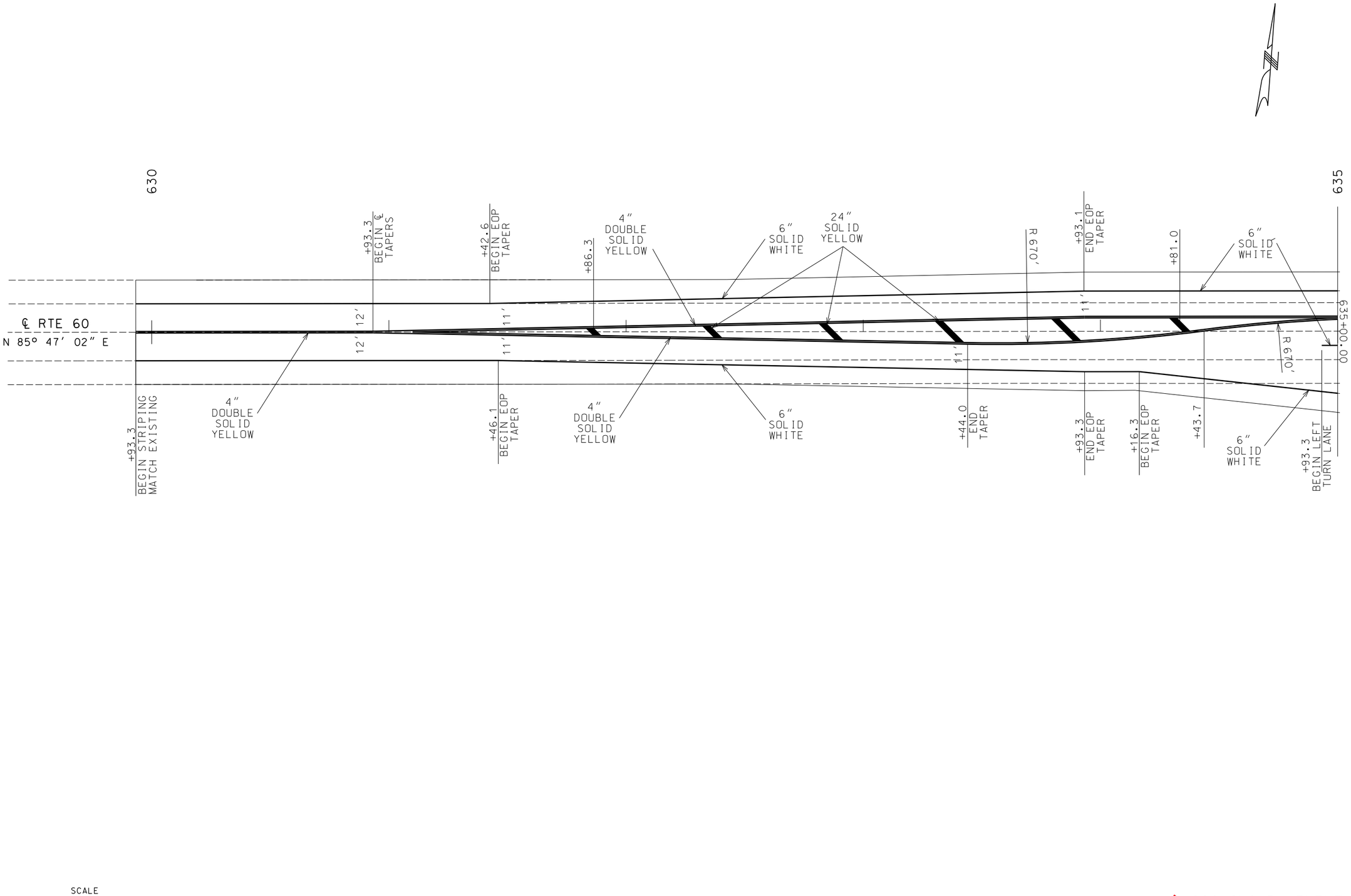
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

FINAL PLANS

REV.



SCALE

0 20 40 60

✓ SIGNING/PAVEMENT MARKINGS
SHEET 9 OF 17 ✓

STATE OF MISSOURI
JENNIFER A. THOMAS
NUMBER PE-2013030729
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
12/11/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	SN009

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

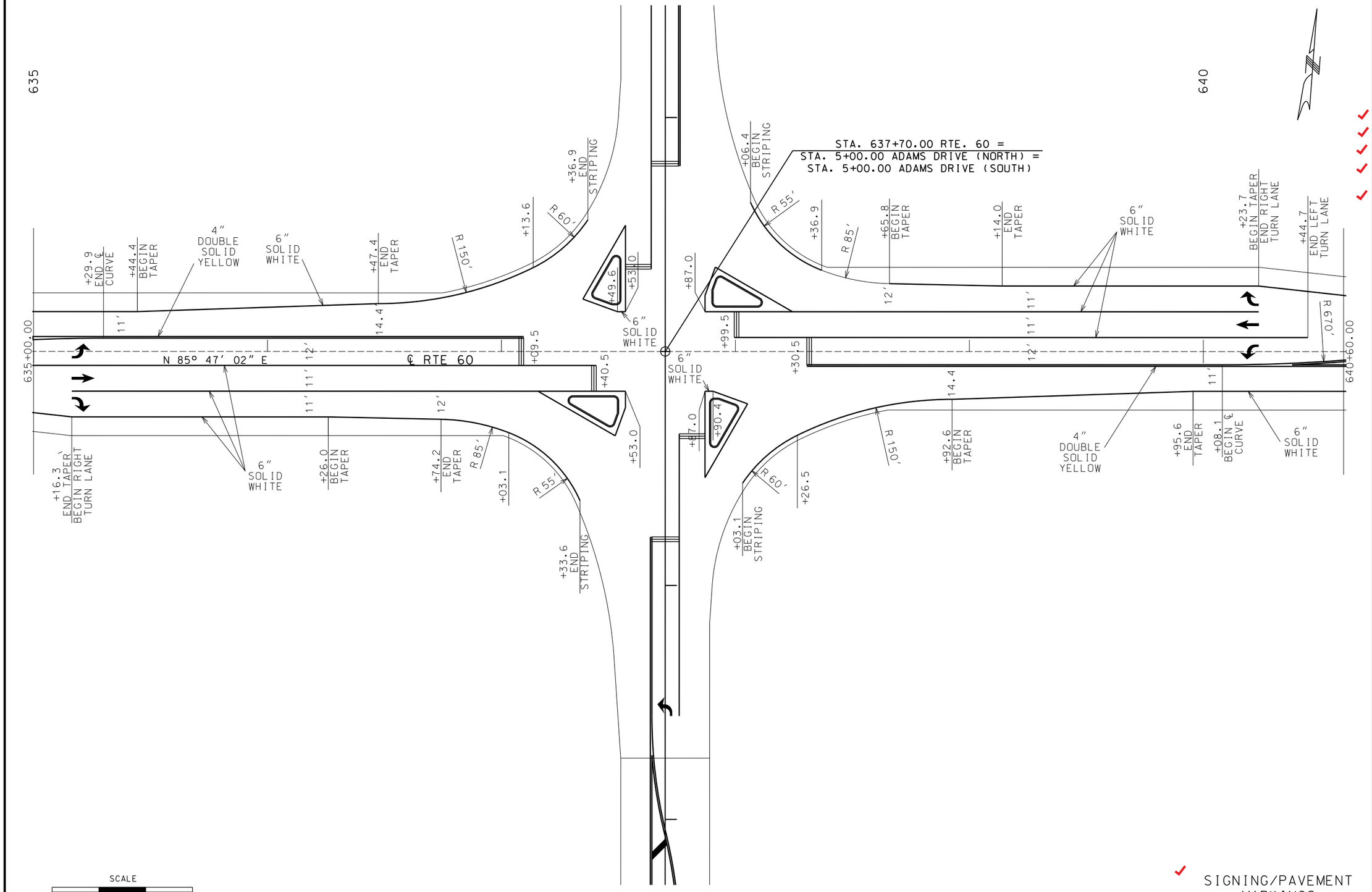
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.	DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS



SIGNING/PAVEMENT MARKINGS
SHEET 10 OF 17

STATE OF MISSOURI
JENNIFER A. THOMAS
NUMBER PE-2013030729
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 12/11/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	SN010

COUNTY: NEWTON
JOB NO.: J7P2178
CONTRACT ID.: 150123-G01
PROJECT NO.: FAF-60-1(33)
BRIDGE NO.:

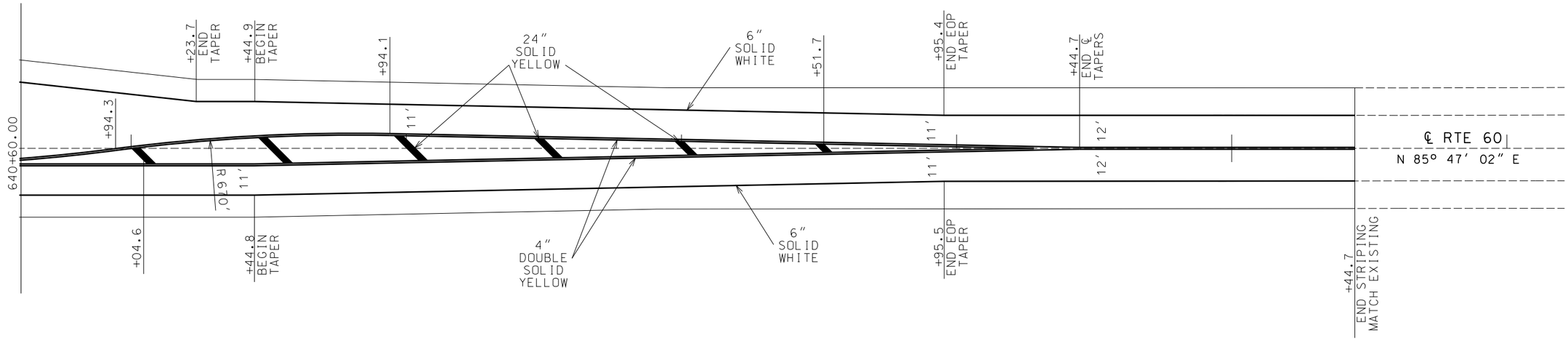
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



SCALE

0 20 40 60

SIGNING/PAVEMENT MARKINGS
SHEET 11 OF 17

STATE OF MISSOURI
JENNIFER A. THOMAS
NUMBER PE-2013030729
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE PREPARED
12/11/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	SN011

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

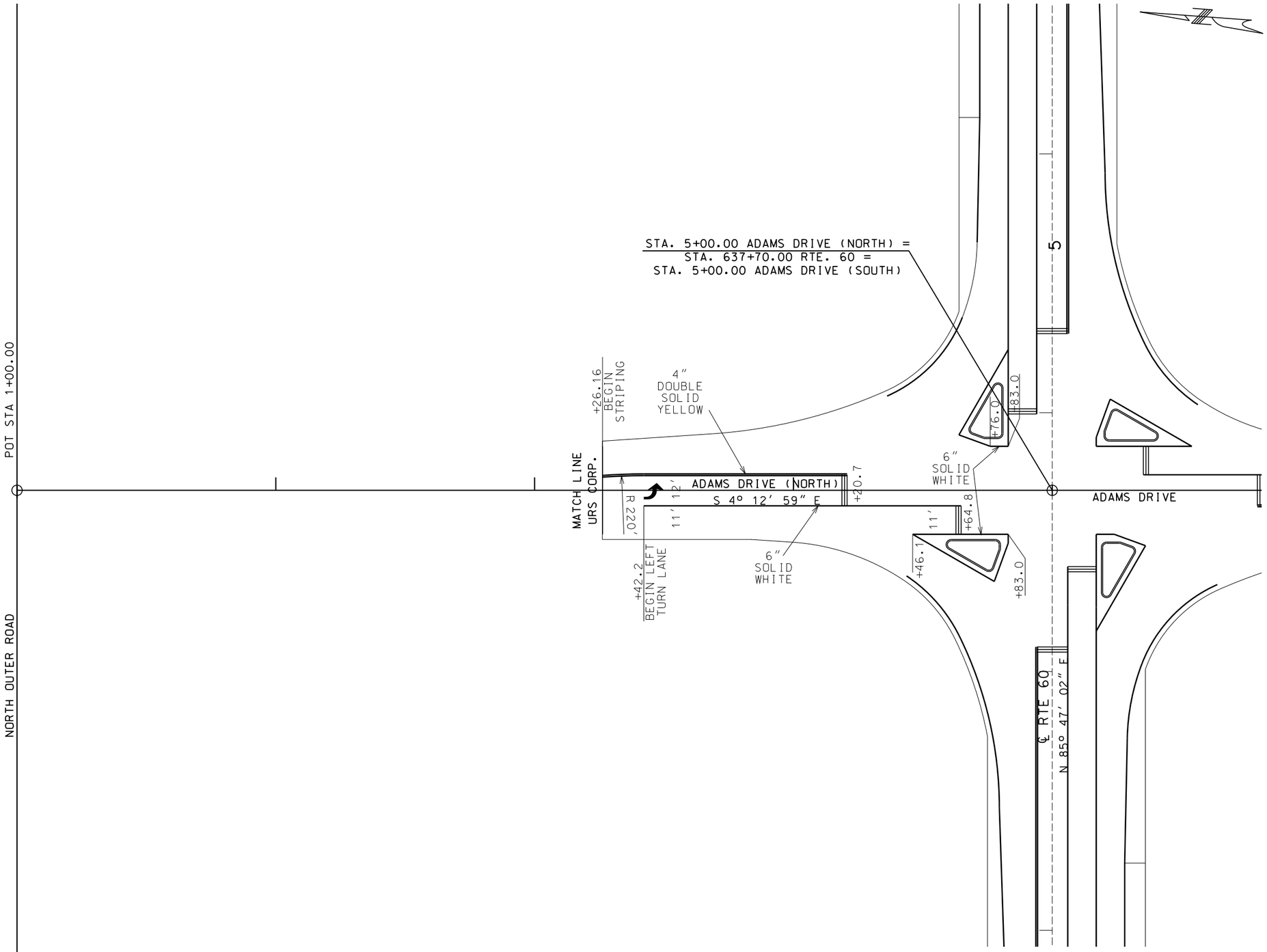
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

REV.



SIGNING/PAVEMENT MARKINGS
SHEET 12 OF 17

STATE OF MISSOURI
JENNIFER A. THOMAS
NUMBER PE-2013030729
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE PREPARED
12/11/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	SN012

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

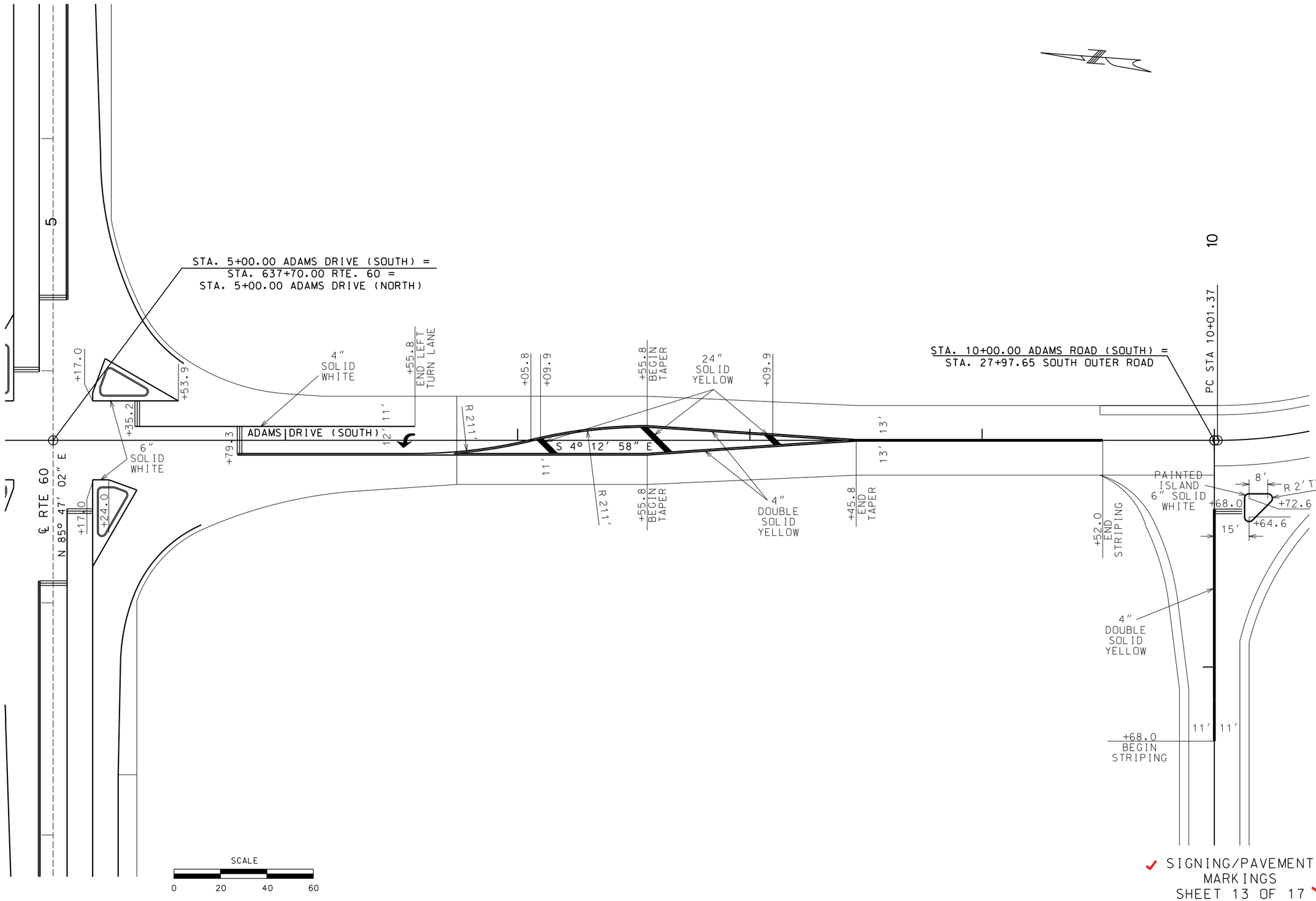
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

REV.



✓ SIGNING/PAVEMENT MARKINGS
SHEET 13 OF 17 ✓

STATE OF MISSOURI
JENNIFER A. THOMAS
NUMBER PE-2013030729
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
12/11/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	SN013

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

REV.

STA. 637+70.00 RTE. 60 =
STA. 5+00.00 ADAMS DRIVE (NORTH) =
STA. 5+00.00 ADAMS DRIVE (SOUTH)

ADAMS DRIVE

℄ RTE 60

12" SOLID WHITE 8" ON SIDE & 4"ON TOP OF ISLAND

+46.1

6" SOLID WHITE

+34.9

+77.6

2' TYP.

+83.0

+49.6

+53.0

6" SOLID WHITE

+91.4

+64.0

6" SOLID WHITE

12" SOLID WHITE 8" ON SIDE & 4"ON TOP OF ISLAND

+76.0

+24.4

+83.0

+87.0

2' TYP.

2' TYP.

+53.0

+17.0

+15.6

+24.0

6" SOLID WHITE

+36.0

6" SOLID WHITE

+48.6

12" SOLID WHITE 8" ON SIDE & 4"ON TOP OF ISLAND

+87.0

+90.4

+17.0

6" SOLID WHITE

+22.4

2' TYP.

+05.2

6" SOLID WHITE

+53.9

12" SOLID WHITE 8" ON SIDE & 4"ON TOP OF ISLAND

SCALE

0 10 20 30

SIGNING/PAVEMENT MARKINGS AROUND ISLANDS
SHEET 14 OF 17

STATE OF MISSOURI
JENNIFER A. THOMAS
NUMBER PE-2013030729
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
12/11/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	SN014

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

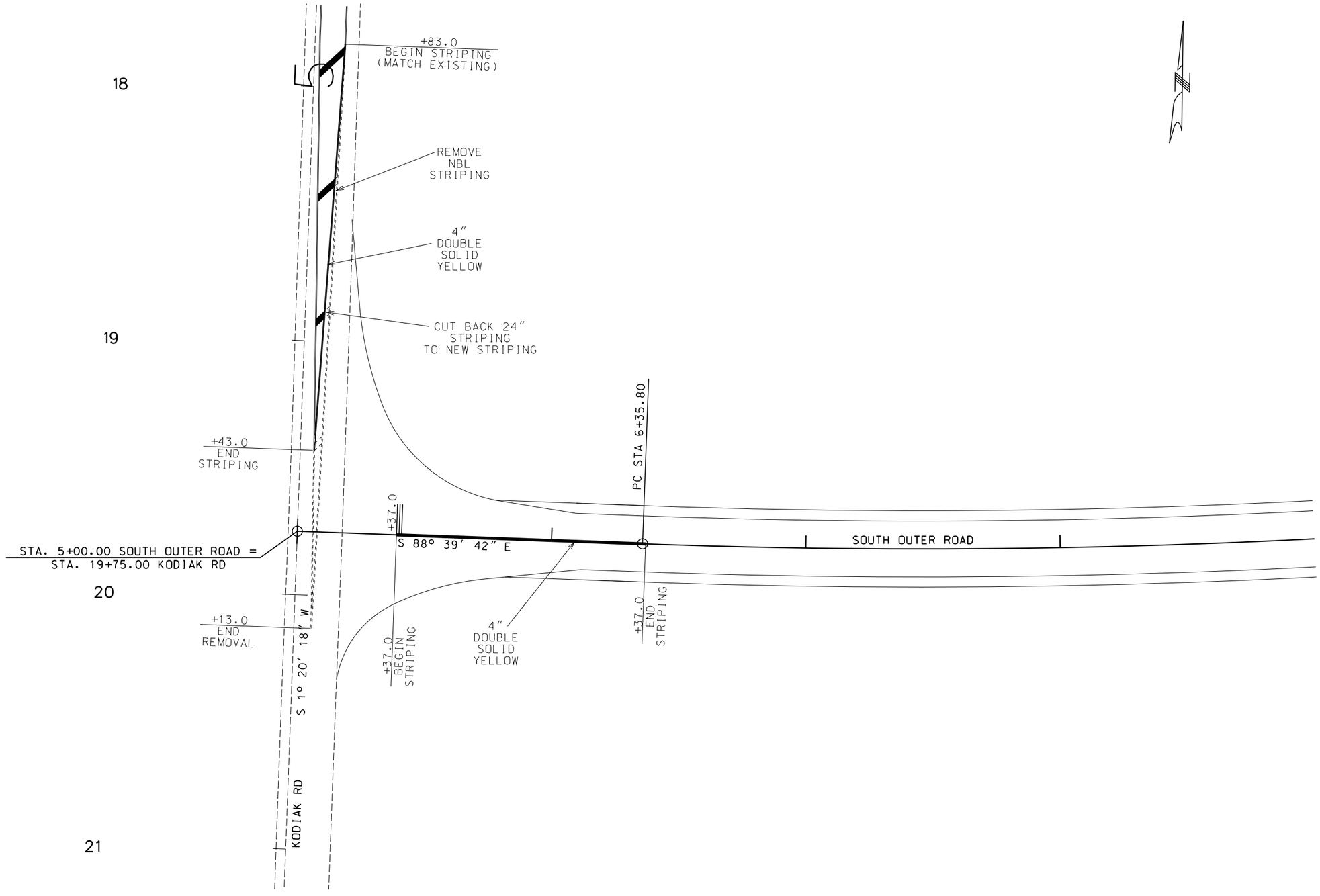
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

REV.



STATE OF MISSOURI
JENNIFER A. THOMAS
NUMBER PE-2013030729
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE PREPARED
12/11/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	SN015

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNING/PAVEMENT MARKINGS
SHEET 15 OF 17

FINAL PLANS

REV.

EFFECTIVE 01-01-2003

SIGNS					PIPE POST					STRUCTURAL STEEL POSTS						BACKING BARS 2" X ⅜" BARS @ 2.55 LBS PER LIN FT				TOTAL ITEM NO. 903-12.10	U-CHANNEL POST ITEM NO. 903-12.50	WOOD POSTS			PERF. STEEL SQ.		BREAKAWAY ASSEMBLY ITEM NO. 903-12.40	CONC FTG'S EMBD ITEM NO. 903-10.10	CONC FTG'S BOLT DOWN ITEM NO. 903-10.20	HORZ CLEAR IF NOT STD	DELINEATORS, MILEPOSTS, CONDUIT, CONDUCTOR CABLE, TRENCHING AND BACKFILLING. CONTROL STATION, PULL BOXES AND OTHER REQUIRED ITEMS.
SIGN NO.	STATION	SIGN DTL. SHT. NO.	LOCATION	SIGN SIZE	PIPE SIZE	POST NO. 1	POST NO. 2	LBS PER FT	TOTAL ITEM NO. 903-12.20	POST DES NO.	POST NO. 1	POST NO. 2	POST NO. 3	LBS PER FT	TOTAL	NO. EACH	LGTH IN.	TOTAL LIN FT	TOTAL LBS			4"X4" ITEM NO. 903-12.60	4"X6" ITEM NO. 903-12.61	6"X6" ITEM NO. 903-12.62	POSTS ITEM NO. 903-12.70	ANCHOR SLEEVE ITEM NO. 903-12.71					
					IN.	LIN FT	LIN FT		LBS		LIN FT	LIN FT	LIN FT		LBS						LIN FT				LIN FT		EACH	CU YDS	CU YDS		
1	634+16		RTE 60 RT	30"x30"																					16	3.25		0.09			
2	637+19		RTE 60 RT	ASSEMBLY																					16	3.25		0.09			
3	637+15		RTE 60 LT	ASSEMBLY																					16	3.25		0.09			
4	638+24		RTE 60 RT	ASSEMBLY																					16	3.25		0.09			
5	638+21		RTE 60 LT	ASSEMBLY																					16	3.25		0.09			
6	641+24		RTE 60 LT	30"x30"																					16	3.25		0.09			
7	4+70		IND CONN. RT	36"x36"																					16	3.25		0.09			
8	5+50		S OUTER RD LT	36"x36"																					16	3.25		0.09			
9	27+70		S OUTER RD RT	36"x36"																					16	3.25		0.09			
10	301+97		KODIAK RD RT	36"x36"																					16	3.25		0.09			
11	301+92		WALDO HATLER LT	36"x36"																					16	3.25		0.09			
12	301+25		KODIAK RD RT	36"x36"																					16	3.25		0.09			
13	202+88		NORWAY RD RT	36"x36"																					16	3.25		0.09			
14	315+56		WALDO HATLER LT	36"x36"																					16	3.25		0.09			
15	120+41		HALE MCGINTY LT	36"x36"																					16	3.25		0.09			
16	314+65		WALDO HATLER RT	36"x36"																					16	3.25		0.09			
17	27+51		N OUTER RD LT	36"x36"																					16	3.25		0.09			
18	26+69		N OUTER RD RT	36"x36"																					16	3.25		0.09			
19	51+61		N OUTER RD RT	36"x36"																					16	3.25		0.09			
20	64+82		SCHOOL DR RT	36"x36"																					16	3.25		0.09			
21	142+99		HALE MCGINTY RT	36"x36"																					16	3.25		0.09			
																									16	3.25		0.09			
																										0.75		0.01			
																										ADDED QUANTITY FOR ROUNDING					
TOTAL																									336	~~68.25~~		~~1.89~~			
																										69.0		1.9			

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

STATE OF MISSOURI
REGISTERED PROFESSIONAL ENGINEER
MICHAEL L. BROWN
NUMBER 2001015611

THIS SHEET HAS BEEN SIGNED, SEALED & DATED ELECTRONICALLY.

DATE PREPARED
12/9/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	SN016

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

URS
URS CORPORATION
ENGINEERING CORPORATION
MO STATE CERT. OF AUTHORITY #000256
1001 HIGHLANDS PLAZA DRIVE WEST, SUITE 300
ST. LOUIS, ST. LOUIS CITY, MO 63110
314-429-0100

SIGNING/PAVEMENT MARKINGS

FINAL PLANS

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	STATION	LOCATION	TYPE: SHR2L-1	TYPE: SHR2L-1	SIGN DESCRIPTION, SIZES & NUMBER OF EACH:  48″	SIGN DESCRIPTION, SIZES & NUMBER OF EACH:  30″x30″
2	637+19	RTE 60 RT.	1	1		
3	637+15	RTE 60 LT.	1	1		
4	638+24	RTE 60 RT.	1	1		
5	638+21	RTE 60 LT.	1	1		

SIGN SUMMARY

STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQUARE FEET: SIZE	SHR2L-1 ITEM NO. 903-50.04	STR2L-1 ITEM NO. 903-50.64	SHR2L-3 ITEM NO. 903-50.65	STR2L-3 ITEM NO. 903-50.11	SHR4L-1 ITEM NO. 903-50.69	STR4L-1 ITEM NO. 903-50.71	SHR4L-3 ITEM NO. 903-50.70	STR4L-3 ITEM NO. 903-50.72	48″ STOP EACH	36″ STOP EACH
2,3,4,5 		4	48″	27.7									
2,3,4,5 		4	30″ x 30″	25.0									
1,6 		2	30″ x 30″	12.5									
7,8,9,10,11,12,13,14,15,16,17,18,19,20,21		15											15
DEDUCTED FOR ROUNDING (0.2)													
TOTAL ~~65.2~~ 65.0													15

SHEET 5 AND 6 WHERE NOT IN THE ORIGINAL PLANS. AS BUILDS SHEETS REFLECT THE SHEETS USED IN THE FIELD.

SIGNING/PAVEMENT MARKINGS
SHEET 17 OF 17

D-30

STATE OF MISSOURI
MICHAEL L. BROWN
NUMBER 2001015611
REGISTERED PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED & DATED ELECTRONICALLY.

DATE PREPARED 12/9/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	SN017

COUNTY: NEWTON
JOB NO.: J7P2178
CONTRACT ID.: 150123-G01
PROJECT NO.: FAF-60-1(33)
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

URS CORPORATION
ENGINEERING CORPORATION
MO STATE CERT. OF AUTHORITY #000256
1001 HIGHLANDS PLAZA DRIVE WEST, SUITE 300
ST. LOUIS, ST. LOUIS CITY, MO 63110
314-429-0100

FINAL PLANS

GEORGE E. PAUL TRUST
BK. 359, PG. 3761

ANGELA P. MCCAULEY
BK. 353, PG. 7702

MARION SINK
BK. 359, PG. 7303

(1) STA 132+51.77
35.10' LT.
SANITARY MANHOLE

(5) LARRY NEFF
DEVELOPMENT & MANAGEMENT
BK. 350, PG. 10889

SCALE
0 20 40 60

PR 8" SANITARY SEWER

P.D.E.

P.D.E.

EXIST. R/W

EXIST. R/W

4" DUCTILE IRON CASING PIPE (133+40)

12" WATER MAIN TO BE ABANDONED

HALE MCGINTY DR.
S 1° 07' 50" W

MATCHLINE STA. 130+00

MATCHLINE STA. 135+00

EXIST. R/W

EXIST. R/W

CUT AND PLUG
STA 132+11.54
22.45' RT.
12" - 90° BEND
W/ THRUST BLOCKING

ASPHALT PAVEMENT LOT

PR 12" PVC WATER MAIN

(4) NEOSHO R-V
SCHOOL DISTRICT
BK. 347, PG. 10884

T.C.E.

STA 132+11.54
9.69' RT.
12X12 TAPPING SLEEVE
AND VALVE

T.C.E.

T.C.E.

MATCHLINE STA. 130+00

MATCHLINE STA. 135+00

1220
1215
1210
1205
1200
1195
1190

1.217.45

(1) TOP 1215.73
FL 1207.90

VPI 133+07.69
EL 1.217.06

-0.23% -1.00%

42" TYP.

PROP. GRADE

EXIST. GROUND

GRANULAR BACKFILL

STA 132+11.54
9.69' RT.
12X12 TAPPING SLEEVE
AND VALVE

FL OUT 1207.88

PR 12" PVC WATER MAIN

PR 8" SANITARY SEWER

STA 132+51.77
35.10' LT.
SANITARY MANHOLE

5'
20'

1.217.84 1.217.79 1.217.75 1.217.58 1.217.52 1.217.53 1.217.49 1.217.44 1.217.44 1.217.38 1.217.40 1.217.32 1.217.35 1.217.25 1.217.30 1.217.00 1.217.26 1.216.69 1.216.21 1.216.39 1.216.16 1.215.97 1.217.10 1.215.68 1.217.00 1.215.47 1.216.88 1.215.24 1.216.72 1.215.04 1.216.53 1.214.85 1.216.33 1.214.60 1.216.13 1.214.35 1.215.93 1.214.09 1.215.93 1.213.82 1.215.33 1.213.54 1.215.33 1.213.37 1.215.13

130 131 132 133 134

WATERLINE & SANITARY SEWER
PLAN & PROFILE
HALE MCGINTY DR.
STA. 130+00 TO STA. 135+00

FINAL PLANS

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
1/6/2016

ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. SP001
COUNTY NEWTON
JOB NO. J7P2178
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(33)
BRIDGE NO.

DATE	DESCRIPTION
4/11/15	(2) WATERLINE CHANGE
6/23/15	(3) SANITARY SEWER REVISIONS

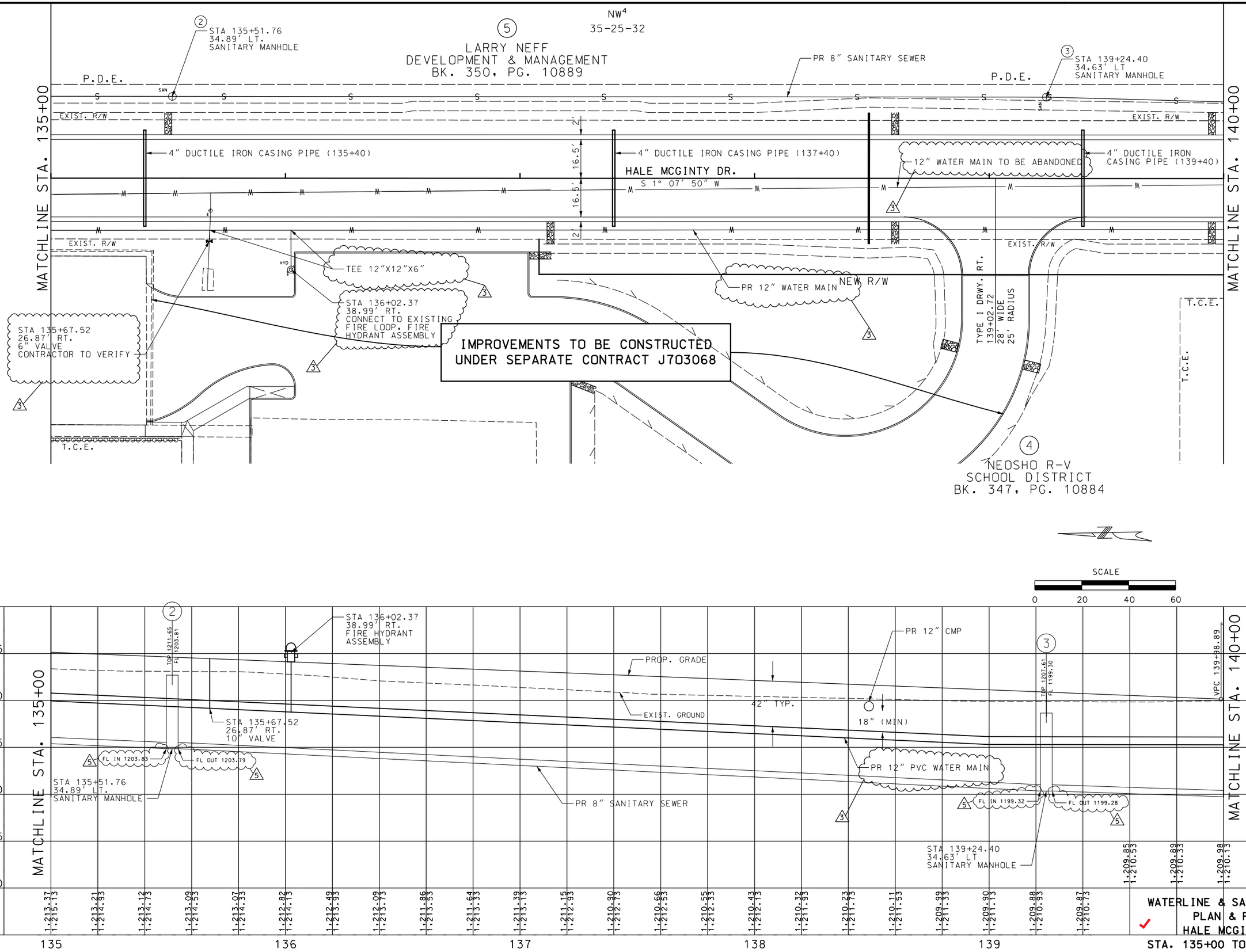
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

J:\DOCS\150123-G01_Neosho_TDD\As_Builds\J7P2178\013_SP_001_J7P2178_020.dgn 1:14:17 PM 1/6/2016



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED: 1/6/2016

ROUTE	STATE
60	MO

DISTRICT	SHEET NO.
SW	SP002

COUNTY: NEWTON

JOB NO.: J7P2178

CONTRACT ID.: 150123-G01

PROJECT NO.: FAF-60-1(33)

BRIDGE NO.:

DATE	DESCRIPTION
4/1/15	2 WATERLINE CHANGE
6/23/15	3 SANITARY SEWER REVISIONS

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

REV.

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SCALE
0 20 40 60

(5) LARRY NEFF
DEVELOPMENT & MANAGEMENT
BK. 350, PG. 10889

NW4
35-25-32

(5) STA 143+73.92
21.50' LT.
SETOVER MANHOLE

T.C.E.

P.D.E.

PR 8" SANITARY SEWER

(4) STA 143+01.66
24.56' LT.
SANITARY MANHOLE

P.D.E.

MATCHLINE STA. 140+00

MATCHLINE STA. 145+00

+34.64
16.50' LT
BEGIN TAPER

EXIST. R/W

PC STA 144+84.64

STA142+38.25
21.67' RT.
12X8 TAPPING
SLEEVE AND VALVE

TEE 12"X12"X6"

SANITARY MANHOLE
TO BE REMOVED

SANITARY SEWER TO BE REMOVED

4" DUCTILE IRON CASING PIPE (143+40)

HALE MCGINTY, DR.

S 1° 07' 50" W

4" DUCTILE IRON
CASING PIPE (141+40)

STA 143+37.11
21.60' RT.
12" VALVE

12" WATER MAIN
TO BE ABANDONED

16.5'
16.5'
2'

EXIST. R/W

NEW R/W

NEW R/W

NEW R/W

NEW R/W

T.C.E.

PR 12" PVC WATER MAIN

(4) NEOSHO R-V
SCHOOL DISTRICT
BK. 347, PG. 10884

T.C.E.

8" 45° BEND
WITH THRUST
BLOCKING

STA 142+58.51
37.80' RT
8X8 TAPPING SLEEVE
AND VALVE

(6) LARRY LANE
LANE ESTATES
BK. 353, PG. 11898

DUSTY LN.

CUT AND PLUG

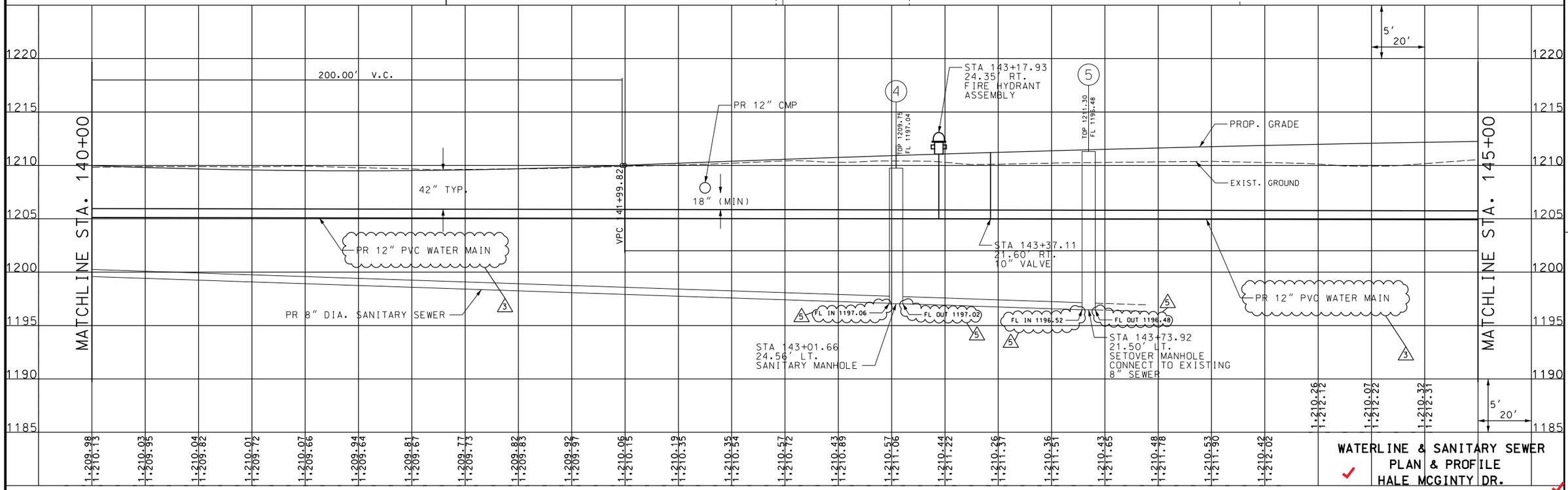
STA 143+17.93
24.35' RT.
FIRE HYDRANT
ASSEMBLY

T.C.E.

NW4
35-25-32

PR 12" PVC WATER MAIN

(7) RAY E. LANE &
LOLA J. LANE
BK. 353, PG. 11898



WATERLINE & SANITARY SEWER
PLAN & PROFILE
HALE MCGINTY DR.
STA. 140+00 TO STA. 145+00

FINAL PLANS

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 1/6/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	SP003

COUNTY: NEWTON
JOB NO.: J7P2178
CONTRACT ID.: 150123-G01
PROJECT NO.: FAF-60-1(33)
BRIDGE NO.:

NO.	DATE	DESCRIPTION
2	4/1/15	WATERLINE CHANGE
1	6/23/15	SANITARY SEWER REVISIONS

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

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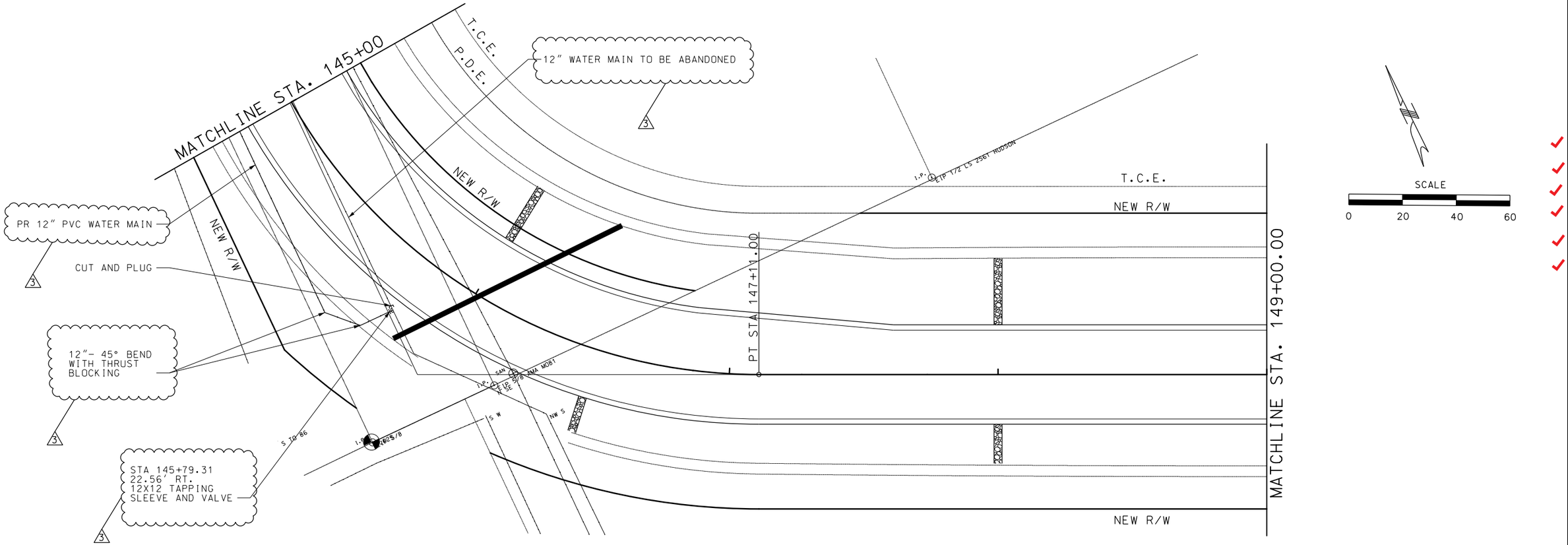

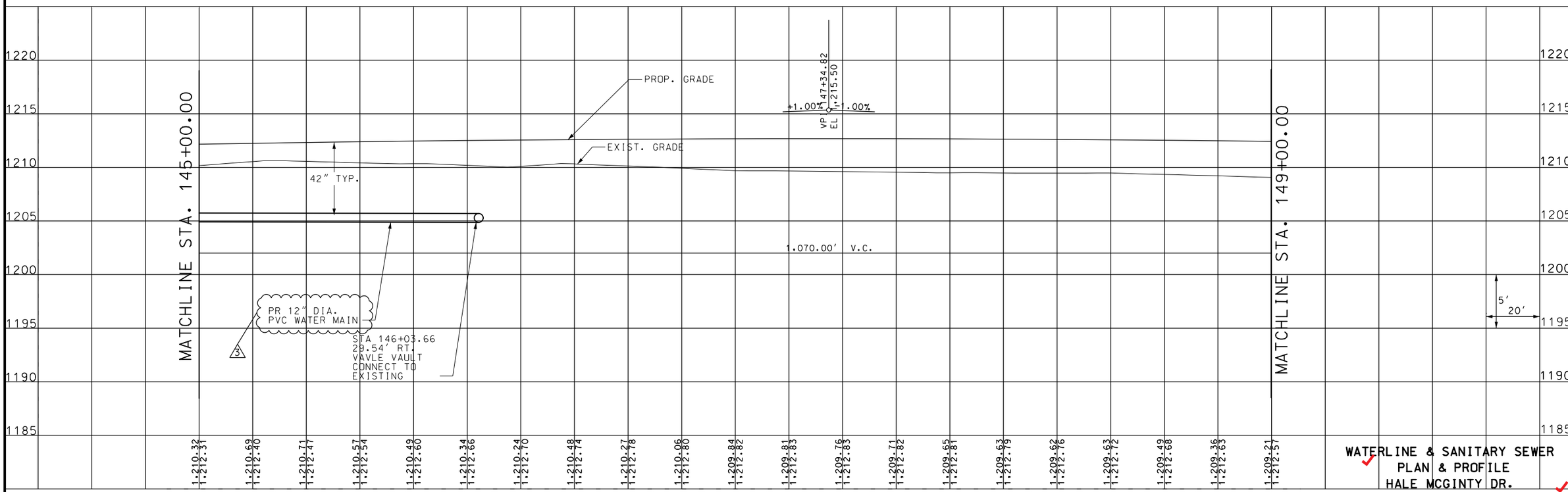

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 1/6/2016

ROUTE	STATE
60	MO

DISTRICT	SHEET NO.
SW	SP004

COUNTY: NEWTON

JOB NO.: J7P2178

CONTRACT ID.: 150123-G01

PROJECT NO.: FAF-60-1(33)

BRIDGE NO.:

DATE	DESCRIPTION
4/1/15	3 WATERLINE CHANGE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

WATERLINE & SANITARY SEWER PLAN & PROFILE
HALE MCGINTY DR.
STA. 145+00 TO STA. 149+00

FINAL PLANS

REV.

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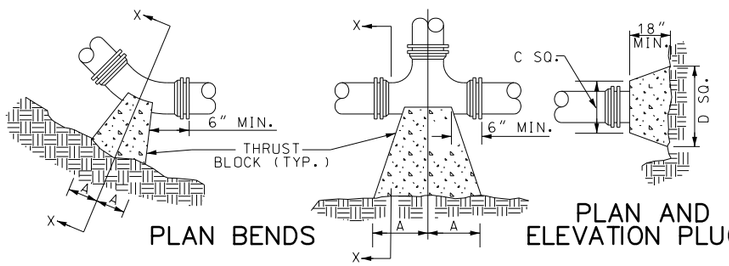
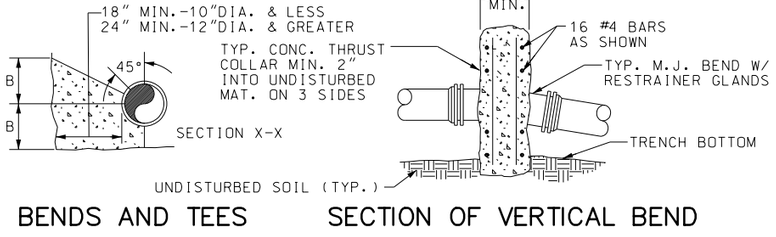


PLAN BENDS

PLAN AND ELEVATION PLUGS



BENDS AND TEES

SECTION OF VERTICAL BEND

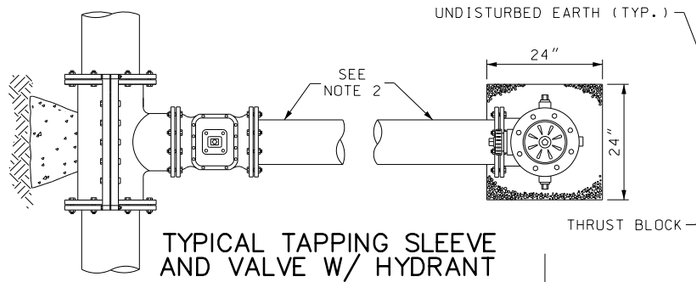
NOTES:

1. FOR VERT. BEND DOWN IN EXCESS OF 11 1/4" BEND, ANCHORAGE SHALL BE DESIGNED BY ENGINEER.
2. FOR VERT. BEND UPWARD, BLOCKING TO BE SIMILAR TO THAT FOR HORIZ. BEND.
3. GLANDS & BOLTS SHALL BE PROTECTED FROM CONC. BY PLASTIC SHEETING WHEN POURING THRUST BLOCKS.
4. ALL THRUST BLOCK & SUPPORT CONC. SHALL BE 3000 PSI READY MIX CONC.
5. THRUST BLOCKS WITH "B" DIMENSION GREATER THAN 30" SHALL HAVE THE RESTRAINED PIPE INSTALLED WITH A MINIMUM OF 4' OF COVER.
6. IF UNDER 100 PSI WORKING PRESSURE, RESTRAINT JOINTS MUST BE USED. IF EQUAL OR GREATER THAN 100 PSI WORKING PRESSURE, BOTH BLOCK AND RESTRAINT JOINTS ARE REQUIRED.

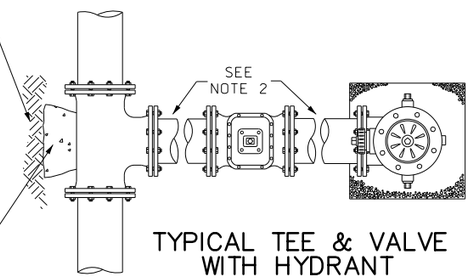
PRESSURE = 200 psi
BEARING = 2000 psf
FACTOR OF SAFETY = 1.5

PIPE	90° BEND		45° BEND		22 1/2° BEND		11 1/4° BEND		TEE		PLUG	
SIZE	A	B	A	B	A	B	A	B	A	B	C	D
4"	8"	12"	8"	8"	6"	6"	6"	6"	11"	9"	10"	6"
6"	18"	12"	8"	10"	8"	8"	8"	8"	11"	10"	12"	18"
8"	18"	13"	10"	10"	8"	8"	8"	8"	11"	12"	12"	24"
10"	20"	16"	12"	14"	8"	12"	8"	12"	14"	16"	16"	30"
12"	20"	16"	12"	14"	8"	12"	8"	12"	14"	16"	16"	30"
16"	26"	20"	16"	18"	11"	13"	11"	13"	18"	20"	20"	36"
24"	82"	42"	62"	30"	44"	22"	22"	16"	82"	42"	82"	42"
30"	185"	42"	100"	42"	52"	42"	40"	30"	185"	42"	185"	42"

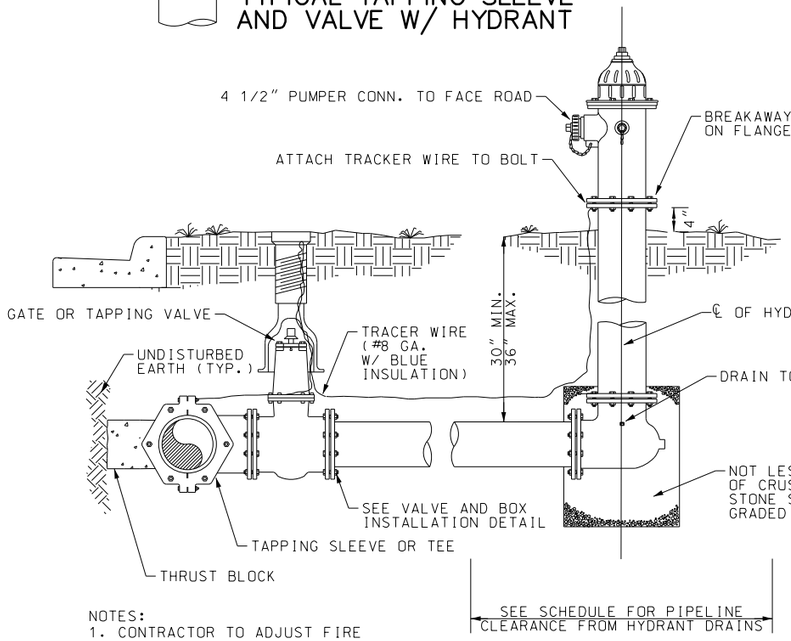
THRUST BLOCK CONSTRUCTION

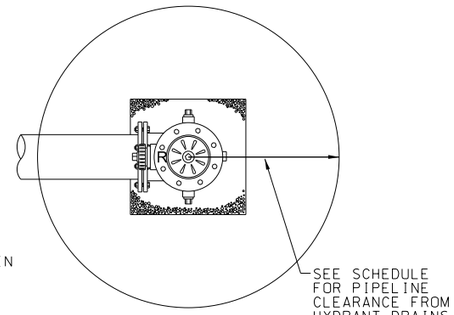


TYPICAL TAPPING SLEEVE AND VALVE W/ HYDRANT



TYPICAL TEE & VALVE WITH HYDRANT





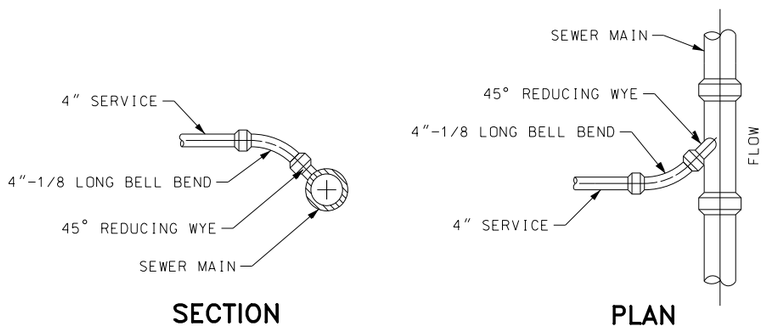
HYDRANT DRAIN CLEARANCES FROM NON-POTABLE WATER PIPELINES

NOTES:
1. CONTRACTOR TO ADJUST FIRE HYDRANT TO FINISHED GRADE.
2. HYDRANT CONNECTORS OR D.I.P. SPOOLS WITH MEGALUG JOINT RESTRAINTS OR APPROVED EQUAL.

NOTES:

WATER MAIN:

1. ALL PIPE SHALL BE CLASS 200 PVC SDR-21 MEETING THE REQUIREMENTS OF AWWA C-900. JOINTS SHALL MECHANICAL JOINT OR PUSH-ON TYPE CONFORMING TO THE LATEST EDITION OF THE AWWA STANDARDS.
2. ALL PIPES, JOINTS, AND FITTINGS SHALL CONFORM TO THE LATEST EDITION OF THE AWWA, ASTM, PLASTIC PIPE INSTITUTE (PPI), OR UNIBELL PLASTIC PIPE ASSOCIATION STANDARDS AND RECOMMENDATIONS.
3. FITTINGS, VALVES, AND HYDRANTS SHALL BE CERTIFIED BY NSF FOR USE IN DRINKING WATER.
4. FIRE HYDRANTS SHALL BE MUELLER SUPER CENTURION 250 3-WAY FIRE HYDRANT A-423. REFER TO CITY OF NEOSHO SPECIFICATIONS FOR SPECIFIC DETAILS.
5. CONTINUOUS AND UNIFORM BEDDING SHALL BE PROVIDED IN THE TRENCH FOR ALL BURIED PIPE. BACKFILL MATERIAL SHALL BE TAMPED IN LAYERS AROUND THE PIPE AND A MINIMUM OF FOUR (4) INCHES ABOVE AND BELOW THE PIPE.
6. A #12 GAUGE COPPER WIRE SHALL BE INSTALLED ON TOP OF THE BEDDING WITH AN ACCESS POINT AT EVERY FIRE HYDRANT.
7. TRENCH WIDTHS SHALL BE AT LEAST EIGHT (8) INCHES LARGER THAN THE MAXIMUM OUTSIDE PIPE DIAMETER.
8. NOMINAL COVER SHALL BE FORTY-TWO (42) INCHES. A MINIMUM OF THIRTY-SIX (36) MAY BE PERMITTED IN APPROVED AREAS.
9. ALL TEES, BENDS, PLUGS, VALVES, AND HYDRANTS SHALL BE PROVIDED WITH REACTION (THRUST) BLOCKING, TIE RODS, OR JOINTS TO PREVENT MOVEMENT. PRE-CAST CONCRETE BLOCKS SHALL NOT BE PERMITTED.
10. ALL TYPES OF PIPE SHALL BE PRESSURE TESTED, LEAKAGE TESTED, AND HYDROSTATIC TESTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWWA STANDARDS.
11. ALL NEW, CLEANED, OR REPAIRED WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH THE LATEST EDITION OF THE AWWA STANDARDS. THIS SHALL INCLUDE DETAILED PROCEDURES FOR THE ADEQUATE FLUSHING, DISINFECTION, AND MICROBIOLOGICAL TESTING OF ALL WATER MAINS.
12. WATER MAINS SHALL MAINTAIN MINIMUM SEPARATION REQUIREMENTS AS REQUIRED BY MDNR SPECIFICATIONS.



SECTION

PLAN

TYPICAL LATERAL SEWER CONECTION

N.T.S.

WATERLINE DETAILS

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 1/6/2016
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. SP005
COUNTY NEWTON
JOB NO. J7P2178
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(33)
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

REV.

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637

638

639

ADAMS DRIVE (NORTH)

ADAMS DRIVE (SOUTH)

STA. 637+70.00 RTE. 60 =
STA. 5+00.00 ADAMS DRIVE (NORTH) =
STA. 5+00.00 ADAMS DRIVE (SOUTH)

℄ RTE 60

5

+49.00
39.00

+61.00
21.00

+47.54
22.00

+40.63
24.51

+49.00
22.00

19′

+78.00
21.00

R 2′ TYP

20′

+93.53
30.20

+69.80
23.53

+09.47
21.00

+74.00
22.00
20′

+79.00
22.00

R 2′ TYP

+92.00
21.00

19′

19′

+48.00
21.00

R 2′ TYP

+21.00
22.00

20′

+30.20
23.53

+26.00
22.00

+30.54
21.00

+46.47
30.20

20′

+22.00
21.00

R 2′ TYP

+91.00
22.00

+92.46
22.00

+99.37
24.51

+39.00
21.00

+91.00
39.00

ISLAND DETAILS
SPECIAL SHEET

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/14/2015

ROUTE	STATE
60	MO

DISTRICT	SHEET NO.
SW	SP005A

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

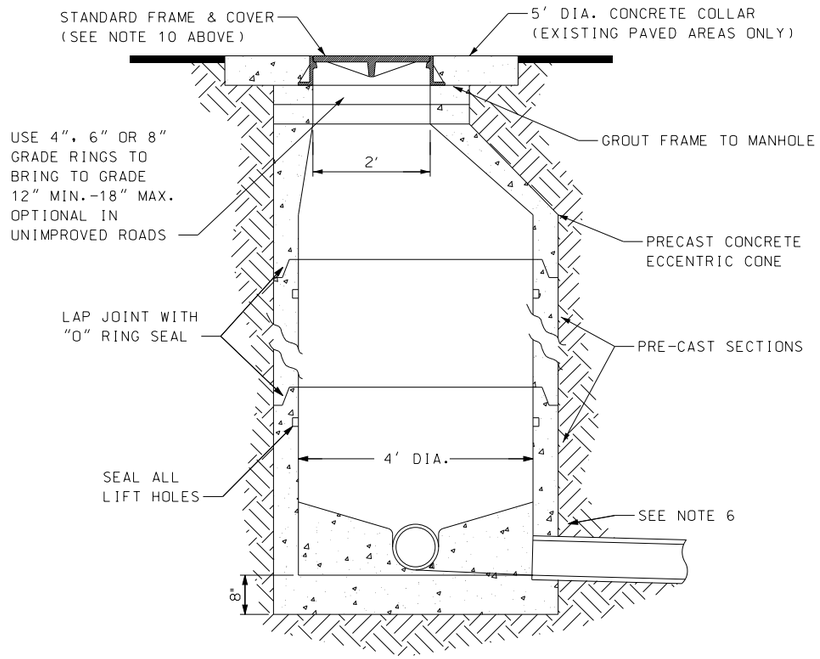
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

NO.	DESCRIPTION	DATE
1	REVISED	

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

REV.



STANDARD MANHOLE DETAIL

N.T.S.

NOTES:

SANITARY SEWER:

1. MANHOLE SHALL CONFORM TO A.S.T.M. C 478 SPECIFICATIONS.
2. DIAMETER OF OPENING FOR PIPE SHALL BE 1" LARGER DIAMETER THAN BELL OF THE PIPE BEING USED.
3. JOINTING COMPOUND SHALL BE RAM NECK, TYPE 1, ROPE FORM PLASTIC GASKET OR EQUAL.
4. ALL PATCHING TO BE DONE WITH HYDRAULIC CEMENT. NO MORTAR REPAIRS PERMITTED.
5. CONCRETE TO BE 2500 P.S.I., REINFORCING STEEL TO BE A.S.T.M. A 615 GRADE 60.
6. SEAL WITH A-LOK, KORE-N-SEAL OR LOCK-JOINT PER SPECIFICATIONS.
7. ALL NEW LINE TIE-INS SHALL BE CORE-DRILLED WITH RUBBER BOOT ADDED.
8. FRAME AND COVER SHALL BE VULCAN 1337-2 (ASTM SPEC. A-48, CLASS 30 CAST IRON) OR APPROVED EQUAL. REFER TO SPECIFICATIONS
9. CONTINUE PIPE SLOPE THROUGH MANHOLE INVERT. 5

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 1/6/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	SP006

COUNTY: NEWTON

JOB NO.: J7P2178

CONTRACT ID.: 150123-G01

PROJECT NO.: FAF-60-1(33)

BRIDGE NO.:

NO.	DESCRIPTION	DATE
5	SANITARY SEWER REVISION	6/23/15

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SANITARY SEWER DETAILS

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

EXIST. R/W

EXIST. R/W

S.L.

4' FBD

(R)

(R)

EXISTING WHEEL BLOCKS RELOCATED
FROM NORTH SIDE OF BUILDING

EXIST. R/W

(R)

EXIST. R/W

46+99.07
219.74 RT

46+99.07
69.74 RT

S.L.

NEW R/W

PP

(R)

(R)

S.L.

20.0'

NORTH OUTER RD.

S 89° 15' 34" E

47+19.06
219.74 RT

47+19.09
69.74 RT

CONCRETE
DUMPSTER
PAD

T.C.E.

S.L.

23.5'

47+42.58
219.50 RT

47+42.58
69.50 RT

20.0'

47+62.58
69.50 RT

47+62.58
64.50 RT

47+62.58
219.50 RT

SIDEWALK

47+68.58
139.58 RT

47+68.58
134.48 RT

6.0'

SIDEWALK

47+68.58
64.50 RT

47+68.58
219.50 RT

6.0'

47+62.58
219.50 RT

P

P

P

EXISTING WHEEL BLOCKS RELOCATED
FROM NORTH SIDE OF BUILDING

4' FBD

S.L.

SIDEWALK

5.0'

NEW R/W

T.C.E.

MATCHLINE STA. 48+00

(12)
FOSTER
BK. 361, PG. 4098
SEE SHEET PP019 FOR TAKINGS

(16)
MERCY HEALTH SYSTEM
JOPLIN, INC
BK. 358, PG. 7997

SE4
35-25-32

SCALE
0 10 20 30

OBLITERATE

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
1/6/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	SP007

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

PARKING LOT DEATAIL

FINAL PLANS

REV.

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SE4
35-25-32

(12)
FOSTER
BK. 361, PG. 4098
SEE SHEET PP019 FOR TAKINGS

LINKS PROFESSIONAL
CENTER, LLC
BK. 354, PG. 1805

I.P.

50

MATCHLINE STA. 48+00

REMOVE & RELOCATE TO NEW PARKING TYP.
(SEE SHEET SP007)

NORTH OUTER RD.

N 84° 56' 44" E

S 89° 15' 34" E

48+82.33
0.00 RT
1202.14'

49+35.10
0.00 RT
1201.64'

49+87.92
0.00 RT
1201.01'

48+74.31
14.50 RT
1201.91

48+83.80
14.50 RT
1201.83'

49+36.57
14.50 RT
1201.34'

49+90.28
14.50 RT
1200.69'

50+03.62
14.50 RT
1200.51'

48+84.76
23.94 RT
1202.14'

R10.5'

49+92.47
26.91 RT
1201.19'

NEW R/W

3.48%

4.17%

49+62.56
44.20 RT
1202.35'

2.00%

2.13%

49+39.82
46.51 RT
1202.46'

0.50%

49+95.04
40.37 RT
1201.76'

SIDEWALK

S.L.

NEW R/W

48+87.58
51.81 RT
1202.73'

49+42.19
69.89 RT
1202.93'

49+64.94
67.58 RT
1202.82'

49+69.99
67.08 RT
1202.72'

BOLLARD TYP. (17)

5.0'

48+84.54
76.24 RT
1203.31'

48+89.96
75.19 RT
1203.20'

LANDING

RAMP

4.60%

48+44.61
80.34 RT

SIDEWALK

5.5'

49+42.74
75.36 RT
1203.07'

49+65.49
73.05 RT
1202.93'

6.00%
RAMP

50+00.02
63.49 RT
1202.23'

50+05.71
70.29 RT
1202.42'

50+28.29
75.73 RT
1203.49'

1.70%

LANDING

S.L.

48+90.01
80.71 RT

48+49.70
84.80 RT

48+85.04
81.22 RT

49+64.91
84.04 RT
1203.59'

T.C.E.

FF=1203.9

49+99.95
69.10 RT
1202.32'

48+47.58
113.32 RT

48+48.08
118.29 RT

48+52.55
112.81 RT

LANDING

10.0'

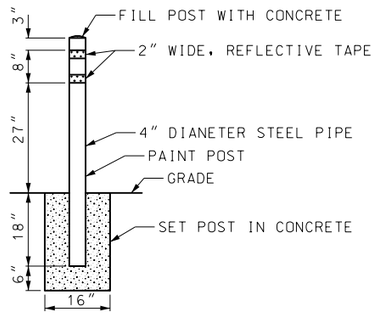
SIDEWALK

S.L. 48+48.59
123.27 RT

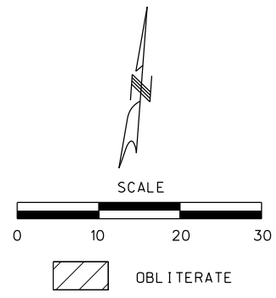
T.C.E.

SE4
35-25-32

(16)
MERCY HEALTH SYSTEM
JOPLIN, INC
BK. 358, PG. 7997



BOLLARD DETAIL



PARKING LOT DEATAIL

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	1/6/2016
ROUTE	60
STATE	MO
DISTRICT	SW
SHEET NO.	SP008
COUNTY	NEWTON
JOB NO.	J7P2178
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(33)
BRIDGE NO.	

DATE	DESCRIPTION
3/19/15	2 ALIGNMENT CHANGE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

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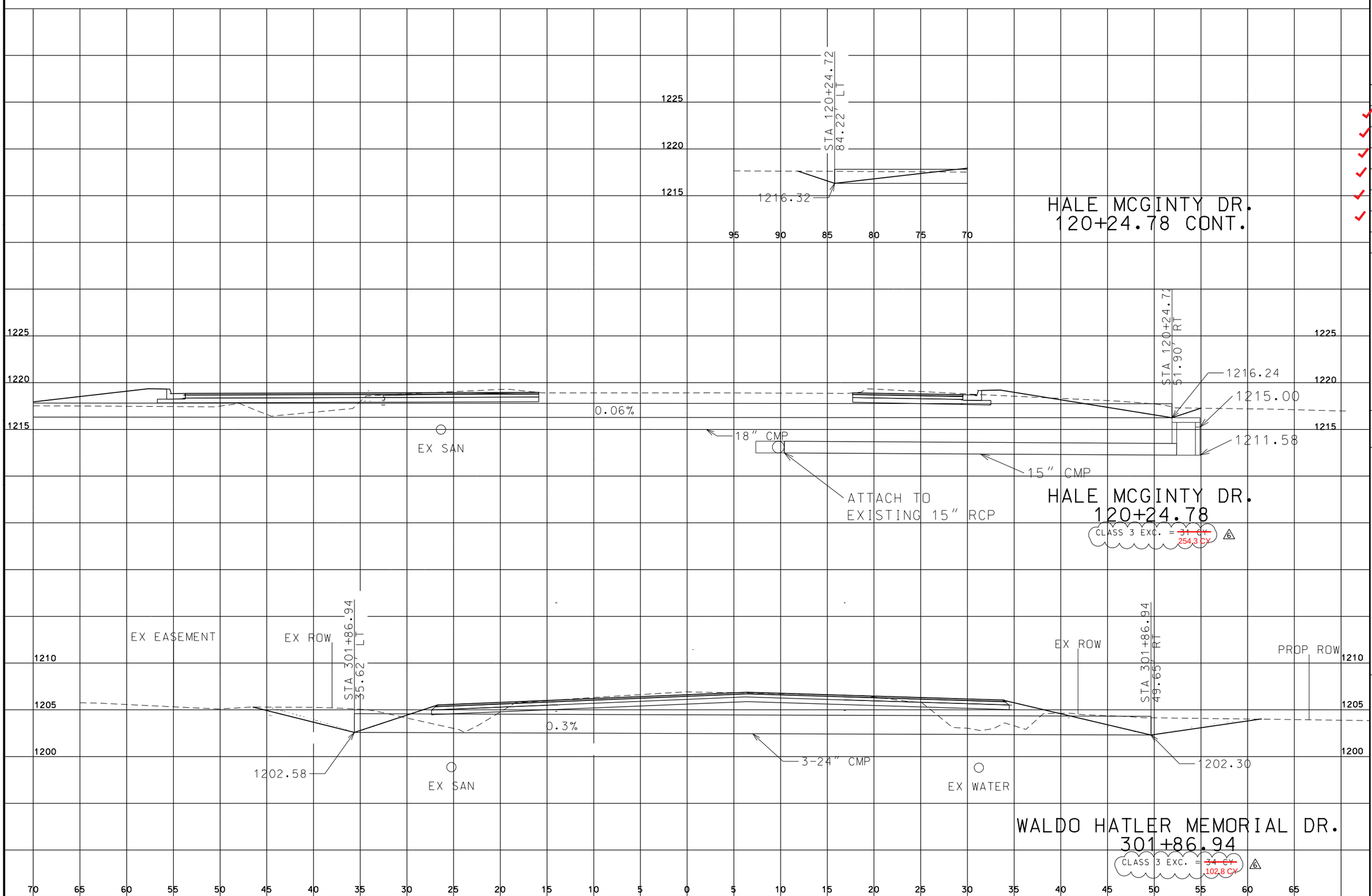


"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
1/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	CS001

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

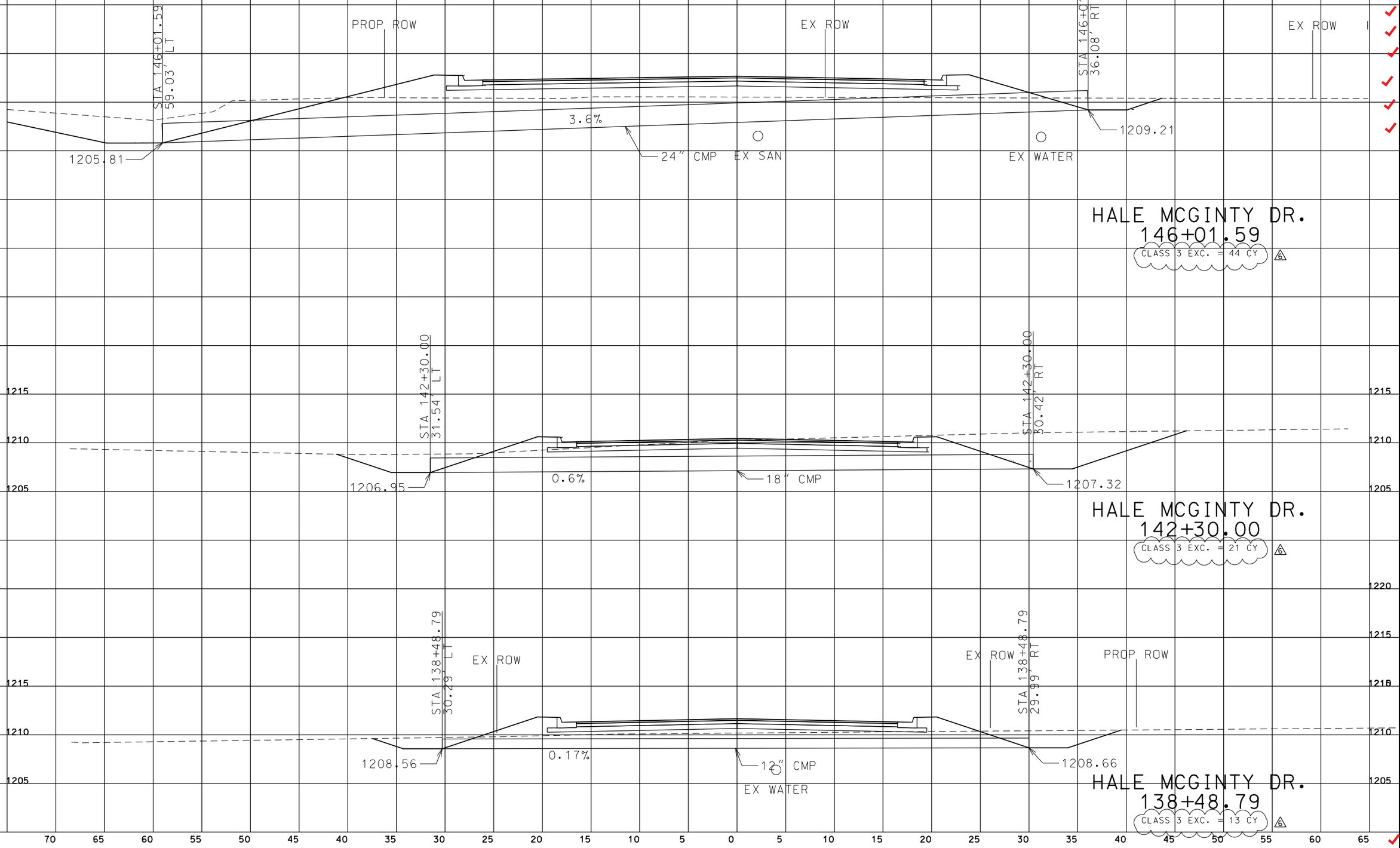
DATE	DESCRIPTION
7/14/15	6 ADDED CL. 3 EXC. QUANTITIES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

FINAL PLANS



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
1/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	CS002

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

NO.	DESCRIPTION	DATE
6	ADDED CL. 3 EXC. QUANTITIES	7/14/15

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

FINAL PLANS

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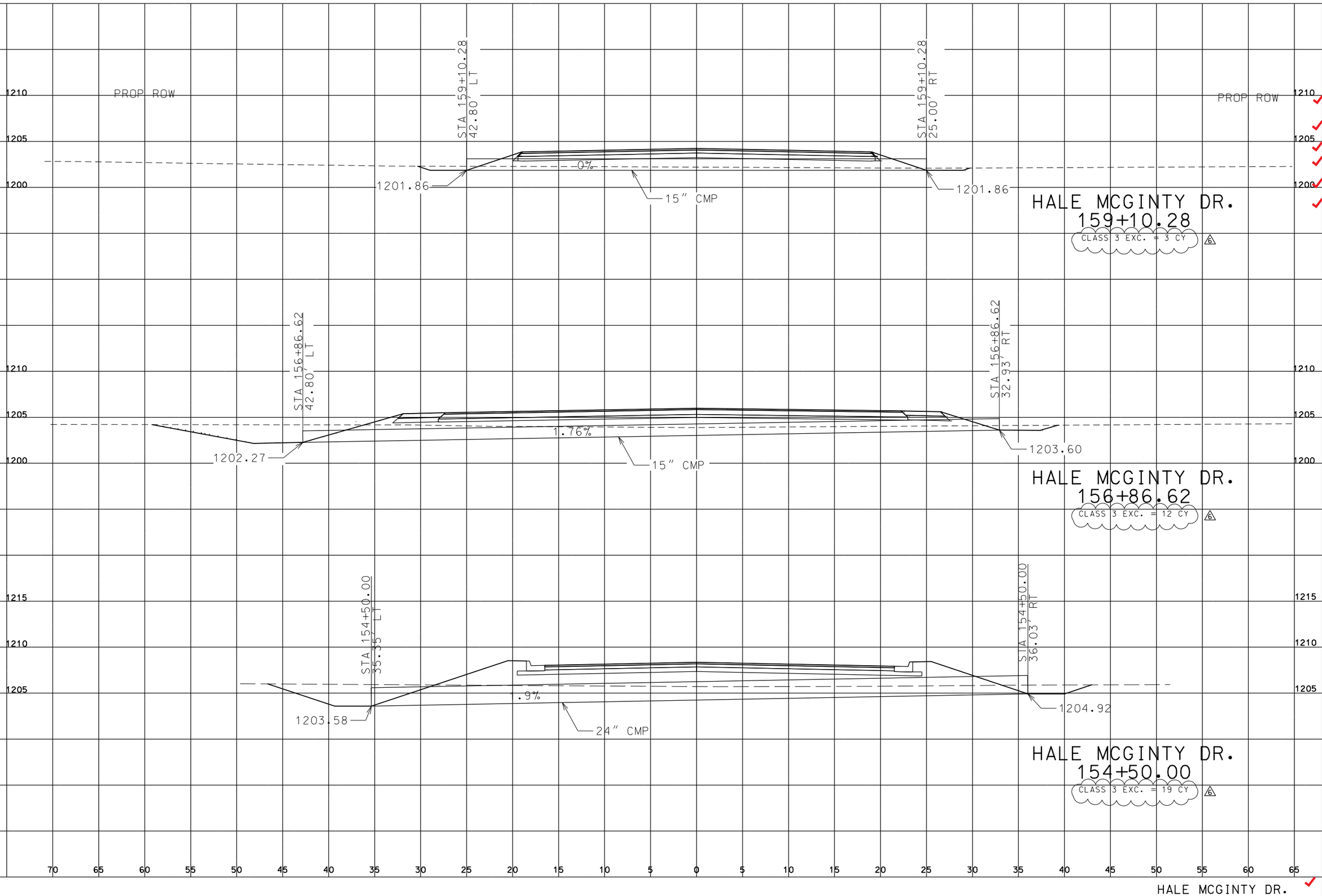

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
1/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	CS003

COUNTY
NEWTON

JOB NO.
J7P2178

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(33)

BRIDGE NO.

DATE	DESCRIPTION
7/14/15	6 ADDED CL. 3 EXC. QUANTITIES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

FINAL PLANS

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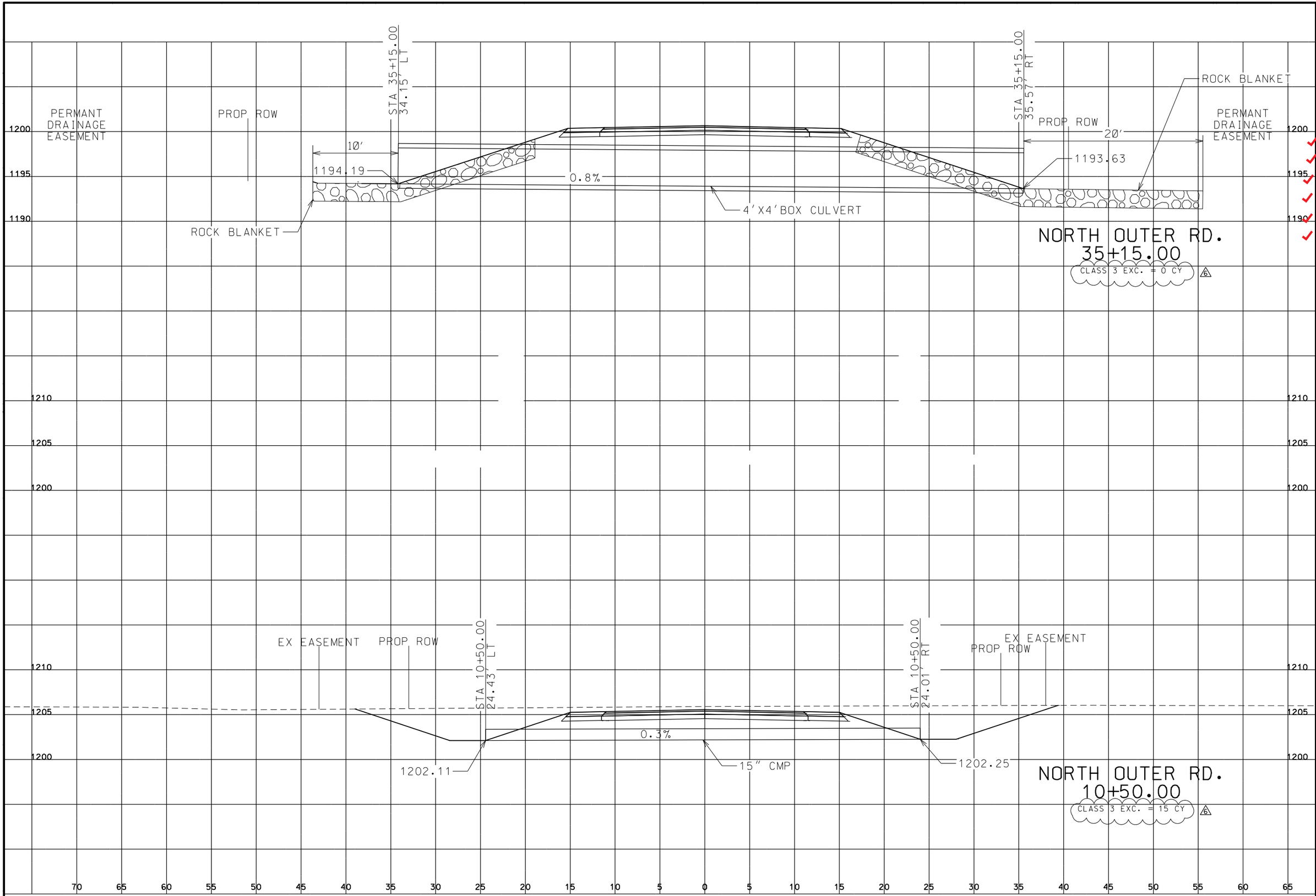

NORTH OUTER RD.

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 1/7/2016

ROUTE 60 | STATE MO

DISTRICT SW | SHEET NO. CS004

COUNTY NEWTON

JOB NO. J7P2178

CONTRACT ID. 150123-G01

PROJECT NO. FAF-60-1(33)

BRIDGE NO.

NO	DESCRIPTION	DATE
6	ADDED CL. 3 EXC. QUANTITIES	7/14/15

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

FINAL PLANS

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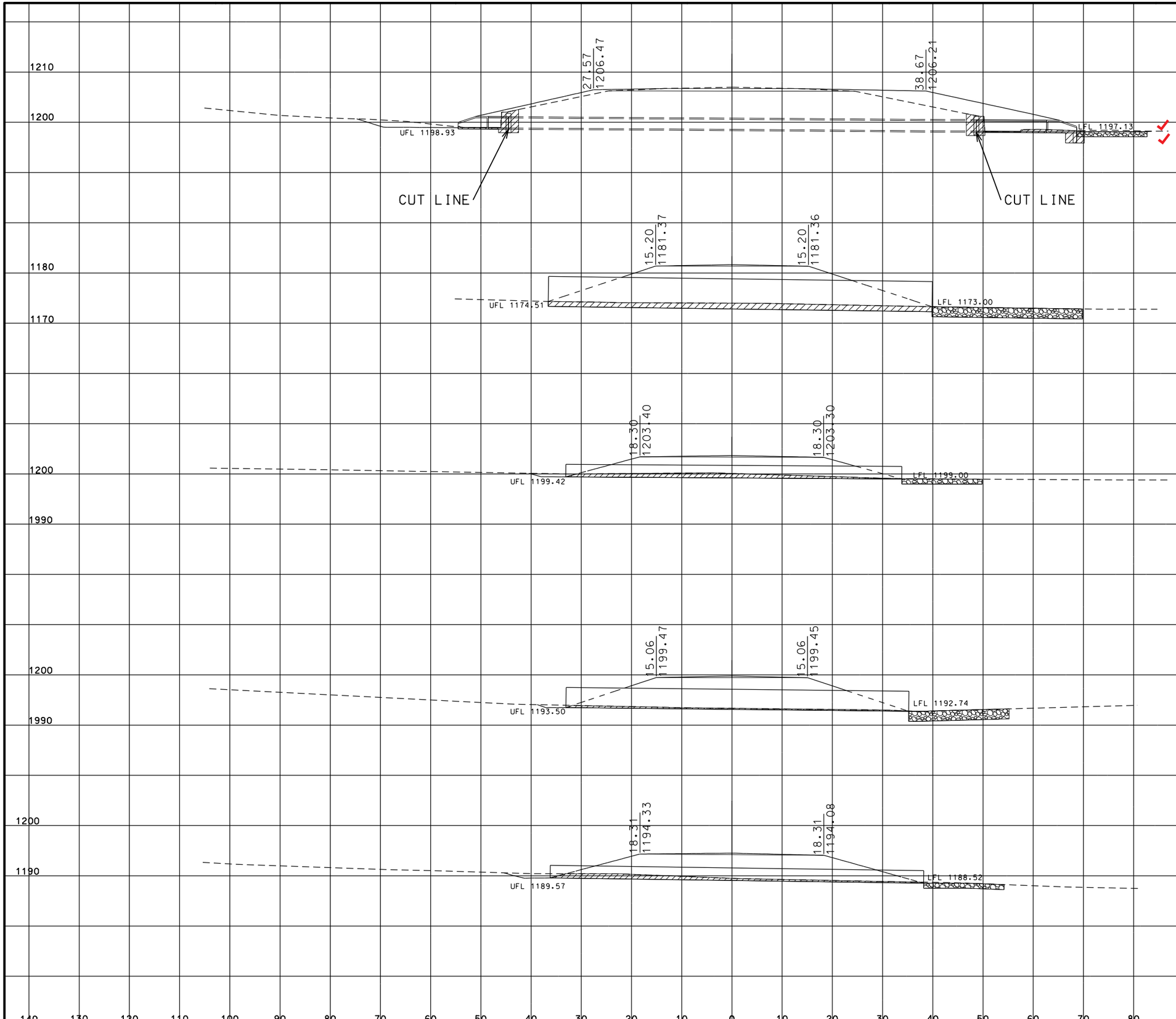


US 60
634+91.08
SKEW 25° R.A.
U.I.P. 1-24"X93'RCP
EXTEND LT 24" X 4'GROUP A PIPE
EXTEND RT 24" X 14' GROUP A PIPE
2 - 24" GROUP A FES
2 - TYPE A PIPE COLLAR
CL. 3 EXC.= ~~14.9 CY~~ 15.0 CY
ROCK LINING = 3 CY - 1'X14'X6'

SOUTH OUTER ROAD
16+33.06
SKEW 10° R.A.
2-72"X76'GROUP B PIPE
EMBEDDED 12"
CL. 3 3XC. = 54.8 CY
ROCK LINING = 64 CY-2'X30'X29'

SOUTH OUTER ROAD
8+32.38
SKEW 35° L.A.
3-30"X 66' GROUP B PIPE
CL.3 EXC. - ~~19.9 CY~~ 20.0 CY
ROCK LINING = 9 CY-1'X16'X14.5'

SOUTH OUTER ROAD
19+69.49
SKEW 5° R.A.
1-48"X 68' GROUP B PIPE
CL. 3 EXC. = 4.3 CY
ROCK LINING = 18 CY-2'X12'X20'

SOUTH OUTER ROAD
26+07.58
SKEW 35° R.A.
3-30"X 74' GROUP B PIPE
CL. 3 EXC. = 18.6 CY
ROCK LINING = 9 CY-1'X16'X14.5'

CULVERT SECTION
SHEET 05 OF 05

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED: 12/14/2015
ROUTE: 60 | STATE: MO
DISTRICT: SW | SHEET NO.: CS005
COUNTY: NEWTON
JOB NO.: J7P2178
CONTRACT ID.: 150123-G01
PROJECT NO.: FAF-60-1(33)
BRIDGE NO.:

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
FINAL PLANS FOR
STATE HIGHWAY

NEWTON COUNTY

DESIGN DESIGNATION

A.D.T. - 2015 = 9160
A.D.T. - 2035 = 9790
PEAK HOUR = 9%
T = 11%
V = 45 M.P.H.
D = 58%

FUNCTIONAL CLASSIFICATION-PRINCIPAL ARTERIAL

PARTIAL CONTROLLED ACCESS HIGHWAY

THIS SHALL BE A PARTIAL CONTROLLED ACCESS HIGHWAY, EXCEPT AT LOCATIONS AND AS OTHERWISE SPECIFICALLY SHOWN ON THESE PLANS. NO ABUTTER'S RIGHTS IN OR OF DIRECT ACCESS TO, FROM, OR ACROSS THE HIGHWAY OR ITS RIGHT-OF-WAY SHALL ATTACH OR BELONG TO ANY PROPERTY ABUTTING ON SAID SECTION OF HIGHWAY, OR TO ANY PERSON MERELY BECAUSE OF OWNERSHIP OF SUCH ABUTTING PROPERTY WHERE THE SYMBOL SHOWN BELOW IS SHOWN ON THE RIGHT-OF-WAY LINE.

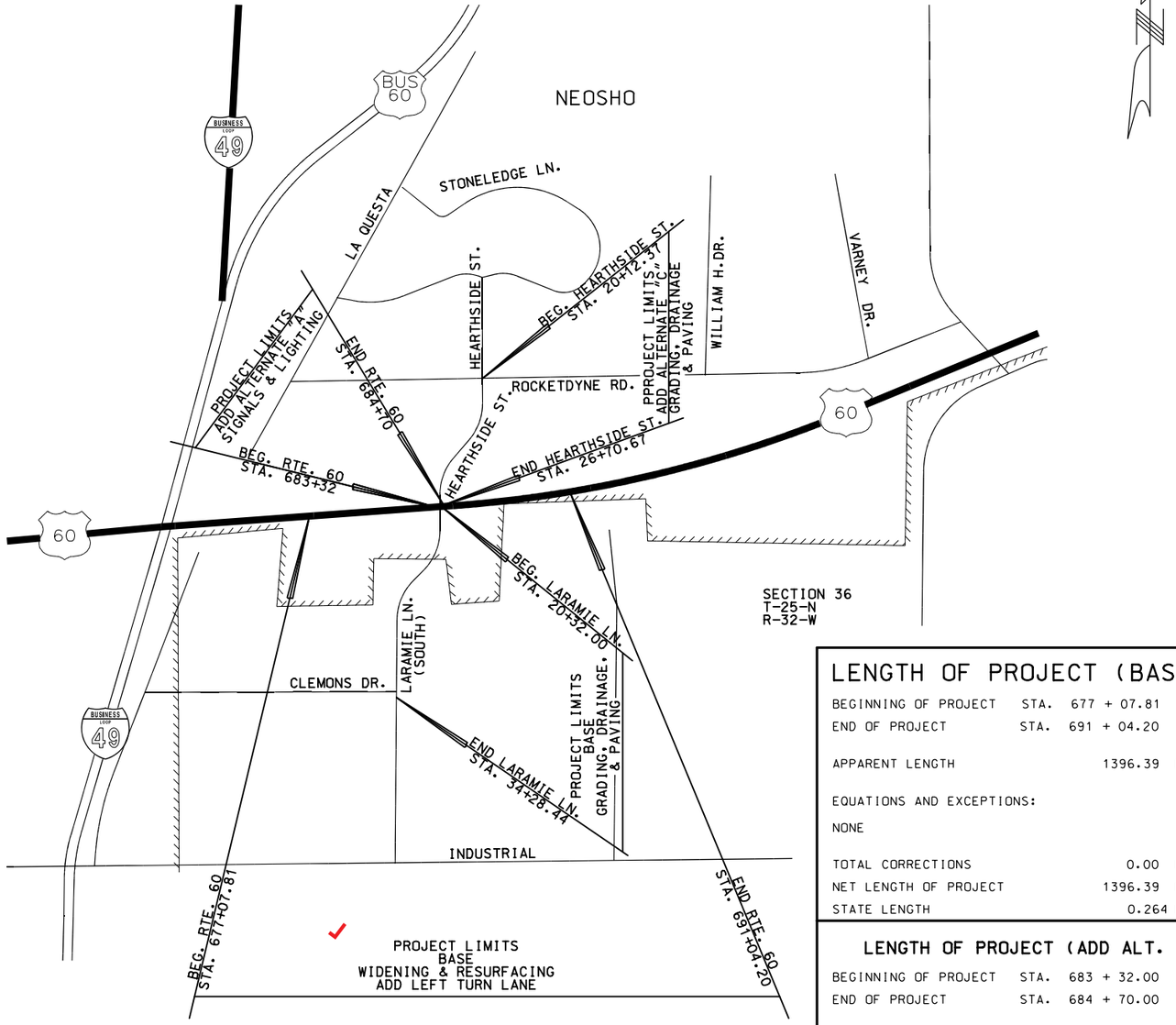
BEGINNING AND ENDING OF CONTROLLED ACCESS

NO RIGHT OF ACCESS OR CROSSING OF LINES BEARING THIS SYMBOL WILL BE PERMITTED UNDER ANY CIRCUMSTANCES.

CONVENTIONAL SYMBOLS
(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	-FO-
OVERHEAD TELEPHONE		
UNDERGROUND TELEPHONE	-T-	-T-
OVERHEAD POWER		
UNDERGROUND POWER	-P-	-P-
GAS	-G-	-G-
WATER	-W-	-W-
MANHOLE	SAN	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
DROP INLET	DI	
DITCH BLOCK		
GROUND MOUNTED SIGN	SIGN	
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL	PED	
FENCE		
CHAIN LINK	-V-	
WOVEN WIRE	-X-	
GATE POST		
BENCHMARK	BM	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES



INDEX OF SHEETS (BASE)

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (4 SHEETS)	2
QUANTITIES (QU)	XX
PLAN-PROFILE (PP)	4-15
REFERENCE POINTS (RP)	16
COORDINATE POINTS (CP)	17
SPECIAL SHEETS (SS)	18-20
TRAFFIC CONTROL SHEETS (TC)	XX
EROSION CONTROL SHEETS (EC)	XX
SIGNING (SN)	40-42
PAVEMENT MARKING (PM)	43-47
CULVERT SECTIONS (CS)	48
CROSS SECTIONS (XS)	1-31

INDEX OF ADD ALTERNATE A SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	A1
QUANTITIES (QU) (1 SHEETS)	A3
PLAN-PROFILE (PP)	A4
SIGNALS & LIGHTING (SG)	A5-A10

THESE PLANS ACCURATELY DEPICT THE CONFIGURATION AND LOCATION OF THE ROADWAY AND ALL APPURTENANCE FEATURES, INCLUDING MODIFICATIONS DESIGNATED OR AUTHORIZED BY THE ENGINEER OF RECORD.

SIGNATURE _____ DATE _____

INDEX OF ADD ALTERNATE C SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	C1
TYPICAL SECTIONS (TS) (2 SHEETS)	C2
QUANTITIES (QU) (4 SHEETS)	C3
PLAN-PROFILE (PP)	C4-C10
SPECIAL SHEETS (SS)	C11-C13
TRAFFIC CONTROL SHEETS (TC)	XX
EROSION CONTROL SHEETS (EC)	XX
SIGNALS & LIGHTING (SG)	C18-C23
SIGNING (SN)	C24-C26
PAVEMENT MARKING (PM)	C27-C31
CULVERT SECTIONS (CS)	C32
CROSS SECTIONS (XS)	XX

LENGTH OF PROJECT (BASE)

BEGINNING OF PROJECT	STA. 677 + 07.81	
END OF PROJECT	STA. 691 + 04.20	
APPARENT LENGTH	1396.39	FEET
EQUATIONS AND EXCEPTIONS:		
NONE		
TOTAL CORRECTIONS	0.00	FEET
NET LENGTH OF PROJECT	1396.39	FEET
STATE LENGTH	0.264	MILES

LENGTH OF PROJECT (ADD ALT. A)

BEGINNING OF PROJECT	STA. 683 + 32.00	
END OF PROJECT	STA. 684 + 70.00	
APPARENT LENGTH	138.00	FEET
EQUATIONS AND EXCEPTIONS:		
NONE		
TOTAL CORRECTIONS	0.00	FEET
NET LENGTH OF PROJECT	138.00	FEET
STATE LENGTH	0.026	MILES

LENGTH OF PROJECT (ADD ALT. C)

BEGINNING OF PROJECT	STA. 20 + 12.37	
END OF PROJECT	STA. 26 + 70.67	
APPARENT LENGTH	658.30	FEET
EQUATIONS AND EXCEPTIONS:		
NONE		
TOTAL CORRECTIONS	0.00	FEET
NET LENGTH OF PROJECT	658.30	FEET

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/21/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	1

COUNTY: NEWTON
JOB NO.: J7P2179
CONTRACT ID.: 150123-G01
PROJECT NO.: FAF-60-1(40)
BRIDGE NO.:

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

REV.

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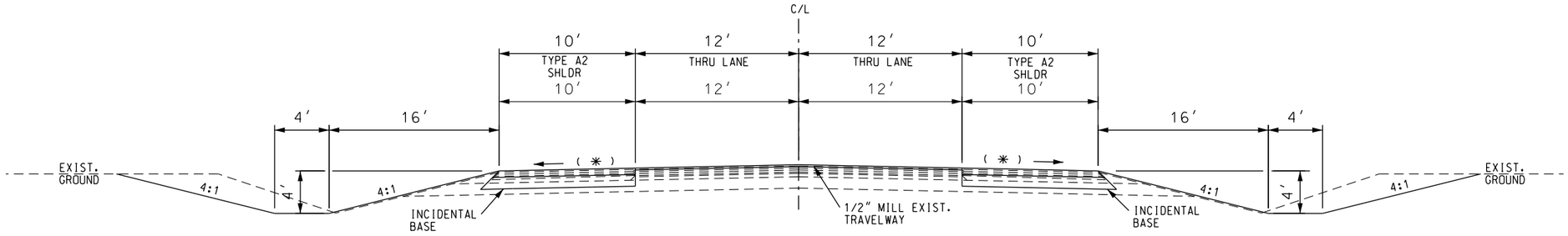
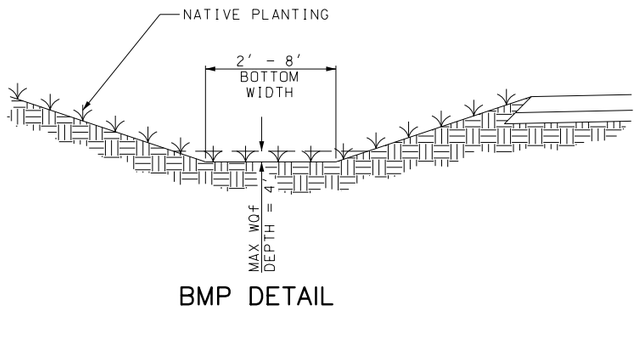


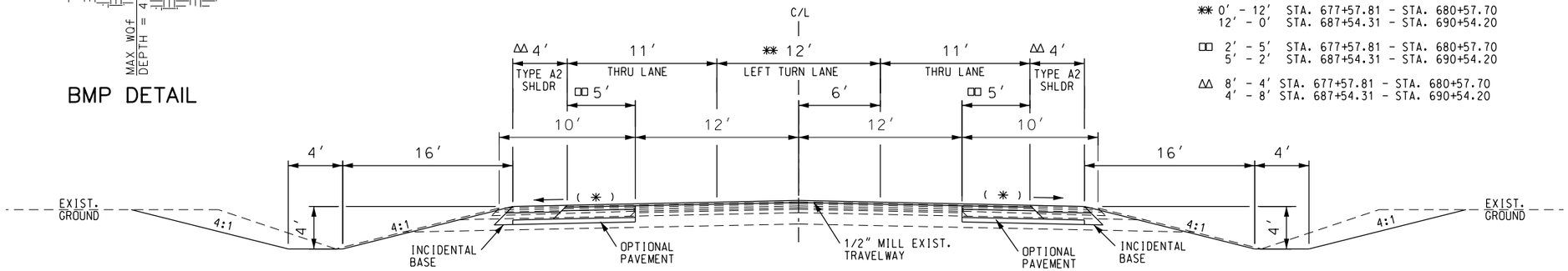
ROUTE 60
STA. 677+07.81 TO STA. 677+57.81
STA. 690+54.20 TO STA. 691+04.20

NOTE:

✳ MATCH EXISTING CROSS SLOPE



BMP DETAIL



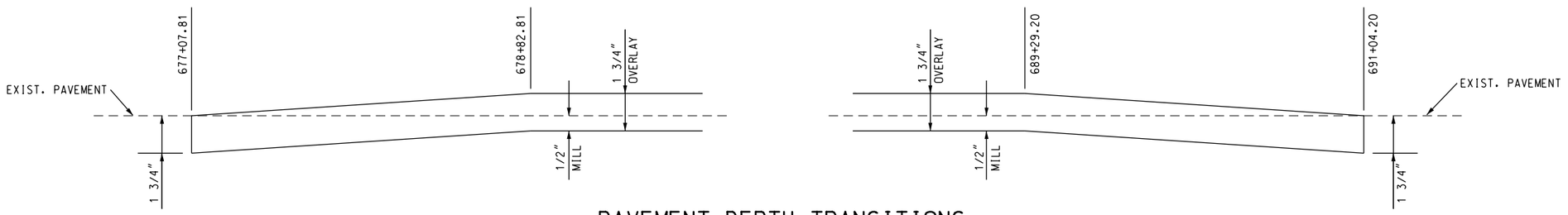
✳✳ 0′ - 12′ STA. 677+57.81 - STA. 680+57.70
12′ - 0′ STA. 687+54.31 - STA. 690+54.20

□□ 2′ - 5′ STA. 677+57.81 - STA. 680+57.70
5′ - 2′ STA. 687+54.31 - STA. 690+54.20

△△ 8′ - 4′ STA. 677+57.81 - STA. 680+57.70
4′ - 8′ STA. 687+54.31 - STA. 690+54.20

ROUTE 60
STA. 677+57.81 TO STA. 681+00.11
STA. 686+02.10 TO STA. 690+54.20

OPTIOINAL PAVEMENT DESIGN	
ASPHALT DESIGN	PCCP DESIGN
1 3/4" SP125C PG64-22 3" SP250C PG64-22 7 1/4" SP250E PG64-22 4" TYPE 5 AGGREGATE BASE	9" PCCP (15′ JOINTS 1 1/4" DOWELS) 4" TYPE 5 AGGREGATE BASE



PAVEMENT DEPTH TRANSITIONS
BEG. AND END OF PROJECT

BASE SECTION
TYPICAL SHEET
SHEET 1 OF 4

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/16/2015
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. 2
COUNTY NEWTON
JOB NO. J7P2179
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(40)
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

REV.

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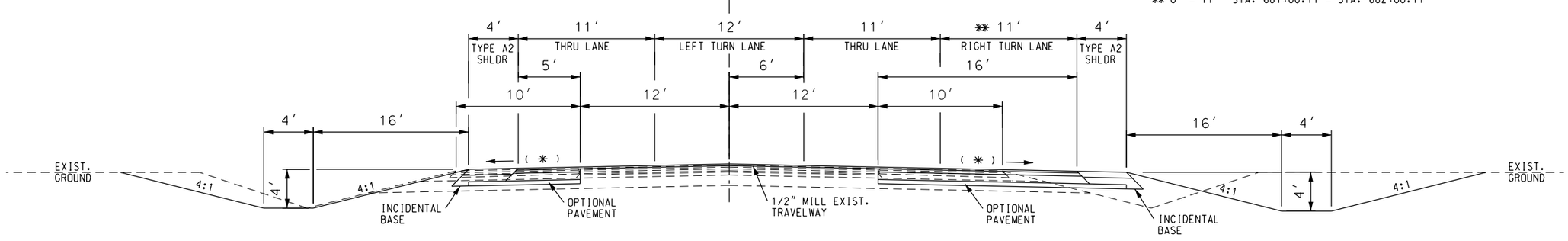
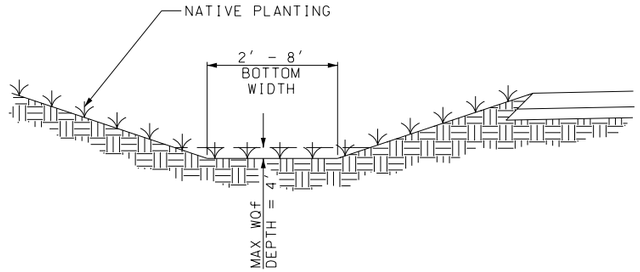


✱✱ 0′ - 11′ STA. 681+00.11 - STA. 682+00.11

ROUTE 60
STA. 681+00.11 TO STA. 682+92.55



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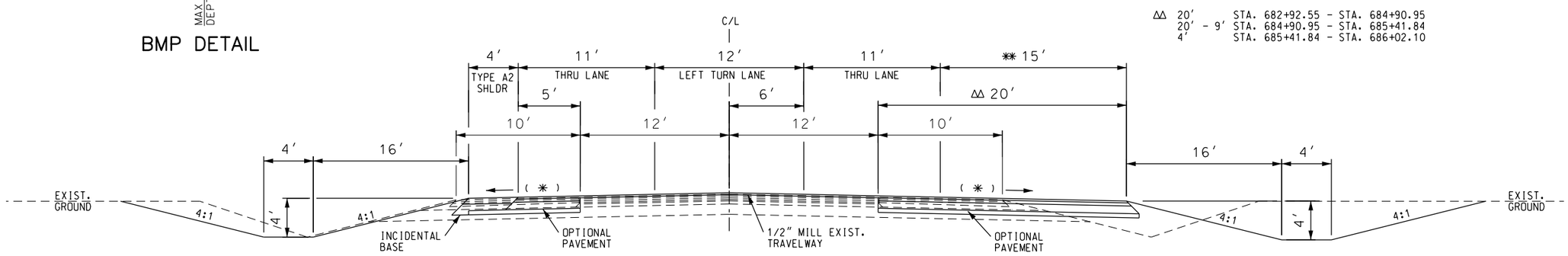

✱✱ 15′ STA. 682+92.55 - STA. 684+90.95
15′ - 4′ STA. 684+90.95 - STA. 685+41.84
4′ STA. 685+41.84 - STA. 686+02.10

ΔΔ 20′ STA. 682+92.55 - STA. 684+90.95
20′ - 9′ STA. 684+90.95 - STA. 685+41.84
4′ STA. 685+41.84 - STA. 686+02.10

ROUTE 60
STA. 682+92.55 TO STA. 686+02.10

NOTE:

✳ MATCH EXISTING CROSS SLOPE

OPTIOINAL PAVEMENT DESIGN	
ASPHALT DESIGN	PCCP DESIGN
1 3/4" SP125C PG64-22 3" SP250C PG64-22 7 1/4" SP250E PG64-22 4" TYPE 5 AGGREGATE BASE	9" PCCP (15′ JOINTS 1 1/4" DOWELS) 4" TYPE 5 AGGREGATE BASE

BASE SECTION
TYPICAL SHEET
SHEET 2 OF 4

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/21/2015
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. 2
COUNTY NEWTON
JOB NO. J7P2179
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(40)
BRIDGE NO.

DESCRIPTION | DATE

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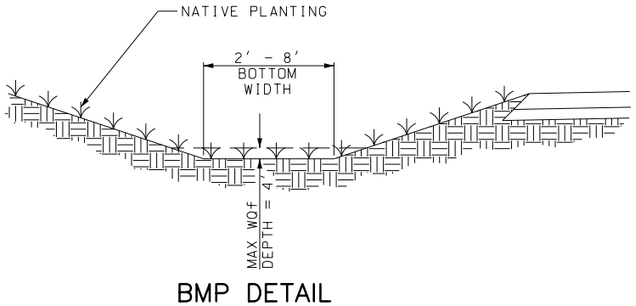
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

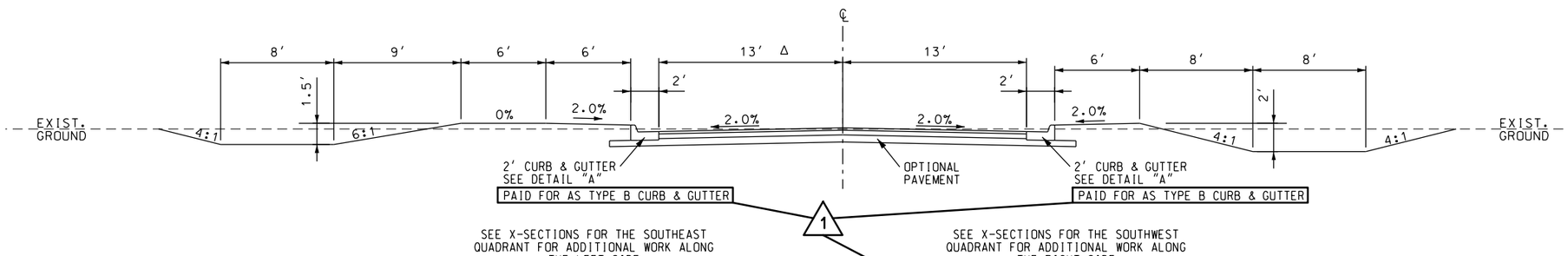
REV.



BMP DETAIL

RIGHT SIDE
STA. 20+32.00 TO STA. 33+24.13 - 13′

ΔΔ LEFT SIDE
STA. 20+32.00 TO STA. 21+76.45 - 22′
STA. 22+76.45 TO STA. 22+51.28 - 22′ TO 15.50′
STA. 22+51.28 TO STA. 24+21.00 - 15.50′
STA. 24+21.00 TO STA. 24+71.00 - 15.50′ TO 13′
STA. 24+71.00 TO STA. 32+24.13 - 13′
STA. 32+24.13 TO STA. 33+24.13 - 13′ TO 9.50′

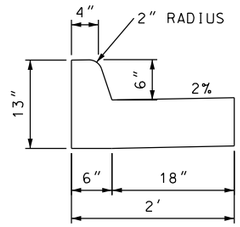


SEE X-SECTIONS FOR THE SOUTHEAST QUADRANT FOR ADDITIONAL WORK ALONG THE LEFT SIDE
STA. 20+32.00 TO STA. 21+07.42

SEE X-SECTIONS FOR THE SOUTHWEST QUADRANT FOR ADDITIONAL WORK ALONG THE RIGHT SIDE
STA. 20+32.00 TO STA. 22+95.00

LARAMIE LANE
(SOUTH OF ROUTE 60)
STA. 20+32.00 TO STA. 33+24.13

OPTIONAL PAVEMENT DESIGN	
ASPHALT DESIGN	PCCP
2″ BP-1 PG64-22 4″ BIT BASE PG64-22 6″ TYPE 1 AGGREGATE BASE	6″ PCCP (15′ JOINTS 1 1/4″ DOWELS) 6″ TYPE 1 AGGREGATE BASE



DETAIL "A"
2′ CURB & GUTTER
(PAID FOR AS TYPE B CURB & GUTTER)

BASE SECTION
TYPICAL SHEET
SHEET 3 OF 4

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/21/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	2

COUNTY
NEWTON

JOB NO.
J7P2179

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(40)

BRIDGE NO.

NO.	DESCRIPTION	DATE
1	REVISED	

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

REV.

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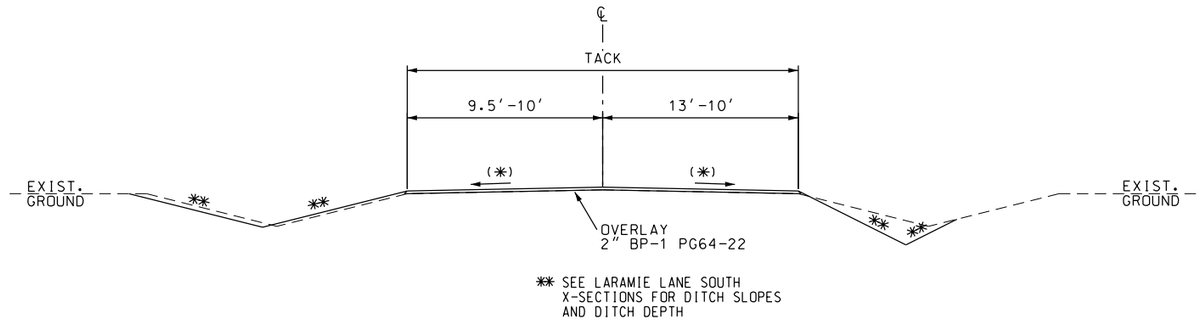
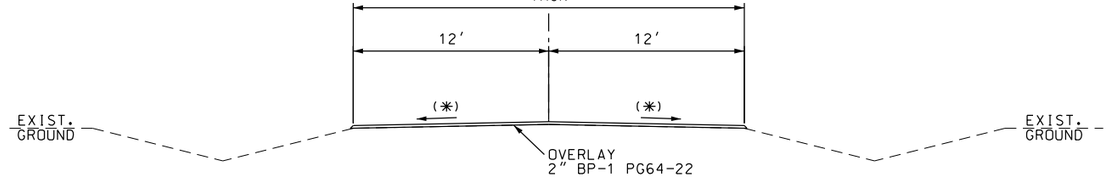


✳✳ SEE LARAMIE LANE SOUTH X-SECTIONS FOR DITCH SLOPES AND DITCH DEPTH

LARAMIE LANE
(SOUTH OF ROUTE 60)
STA. 33+24.13 TO STA. 34+28.44

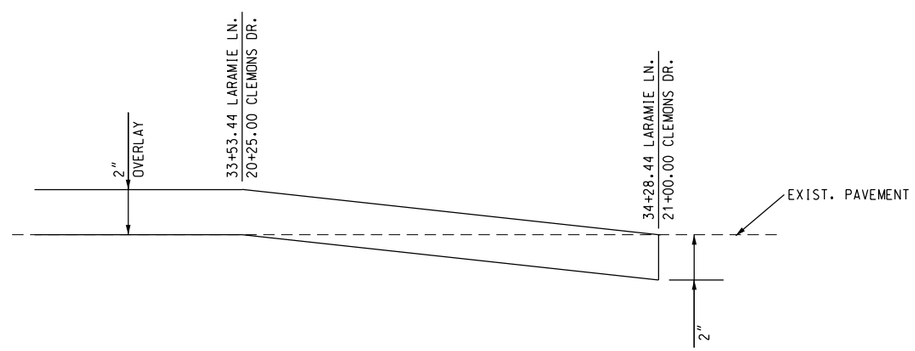
NOTE:

✳ MATCH EXISTING CROSS SLOPE



SEE X-SECTIONS FOR THE NORTHWEST QUADRANT OF CLEMONS DRIVE AND LARAMIE LANE FOR ADDITIONAL WORK ALONG THE RIGHT SIDE STA. 20+12.37 TO STA. 20+62.17

CLEMONS DRIVE
STA. 20+12.37 TO STA. 21+00.00



PAVEMENT DEPTH TRANSITION

✓ BASE SECTION
TYPICAL SHEET
SHEET 4 OF 4 ✓

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/21/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	2

COUNTY: NEWTON

JOB NO.: J7P2179

CONTRACT ID.: 150123-G01

PROJECT NO.: FAF-60-1(40)

BRIDGE NO.:

REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

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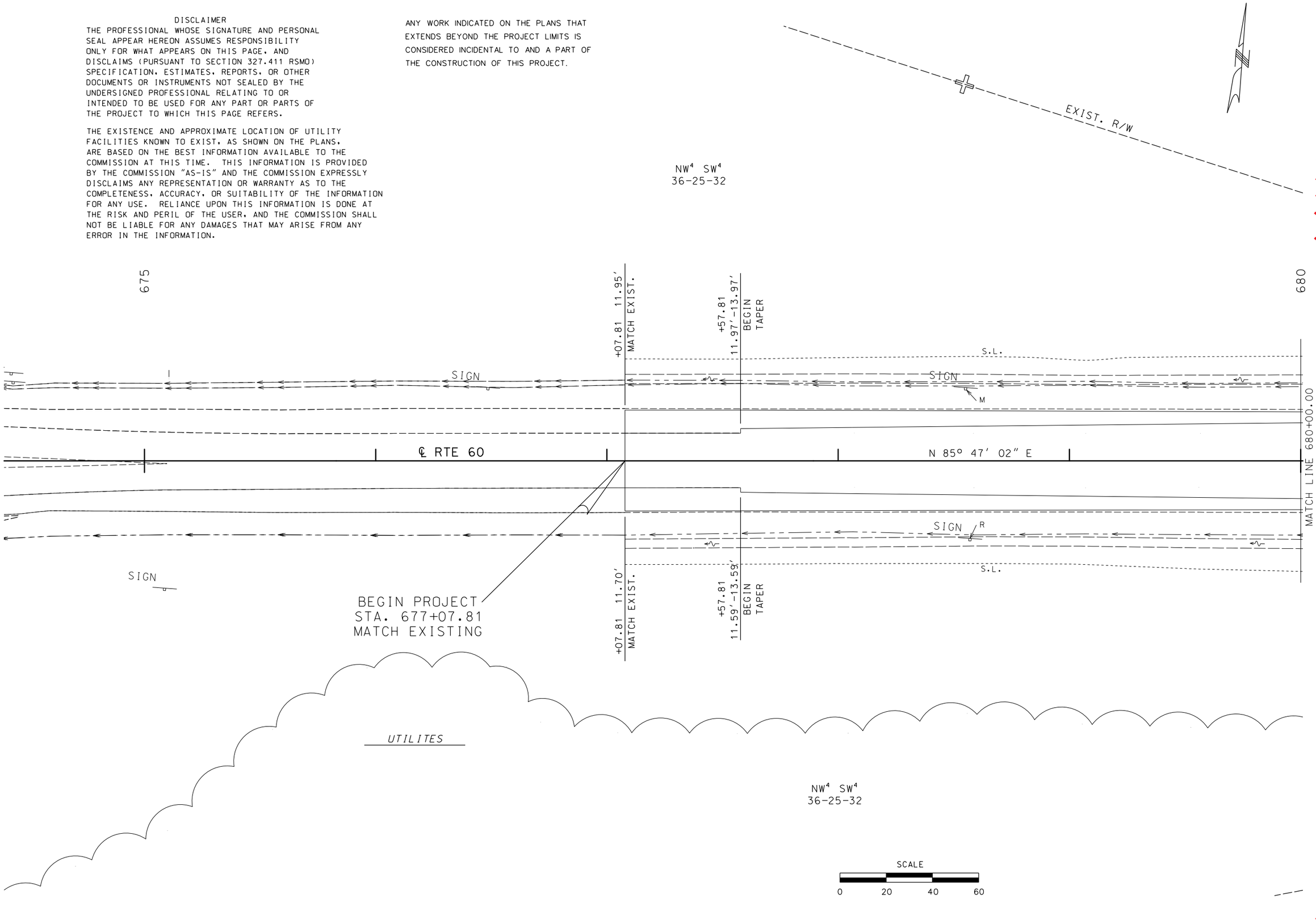
ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/18/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	4

COUNTY
NEWTON

JOB NO.
J7P2179

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(40)

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PLAN SHEET
(ROUTE 60)
SHEET 1 OF 10

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

J:\DOCS\150123-G01_Neosho_TDD\As_Builds\J7P2179\004_PP_J7P2179_I20.dgn 12:38:31 PM 12/18/2015

NW⁴ SW⁴
36-25-32

1/4 1/4 SEC. LINE

NE⁴ SW⁴
36-25-32

CHURCH OF CHRIST

STA. 684+10.00 RTE. 60 =
STA. 20+00.00 LARAMIE LN.(SOUTH)=
18"X188' GROUP B PIPE
w/2 - 18" F.E.S.

+01.71
83.45'

EXIST. R/W

I.P.

+69.63
82.67'

PC STA. 684+78.15

680

685

+57.70
17.00'
END
TAPER

S.L.

SIGN

M

℄ RTE 60

MATCH LINE 680+00.00

N 85° 47' 02" E

MATCH LINE 685+60.00

+92.55
28'-32'

+25.23
32'

+41.84
21'

90°

SIGN

M

S 4° 12' 58" E

+57.70
17.00'
END
TAPER

+00.11
17.00'
BEGIN
TURN
LANE

+00.11
28.00'
END
TAPER

683+01.09
GUTTER TURNOUT

S.L.

NW⁴ SW⁴
36-25-32

1/4 1/4 SEC. LINE

NE⁴ SW⁴
36-25-32

WV

EXIST. R/W

PP

+18.84
167.07' RT.
RTE. 60

S.L.

LARAMIE LANE
(SOUTH)

S.L.

PP

+01.55
166.69'

+49.23
167.29' RT.
RTE. 60

+69.63
167.33

NEW R/W

255' R

NEW R/W

FOSTER, ROBERT L. & EVELYN R.

SCALE
0 20 40 60

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DATE PREPARED
12/18/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	5

COUNTY
NEWTON

JOB NO.
J7P2179

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(40)

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PLAN SHEET
(ROUTE 60)
SHEET 2 OF 10

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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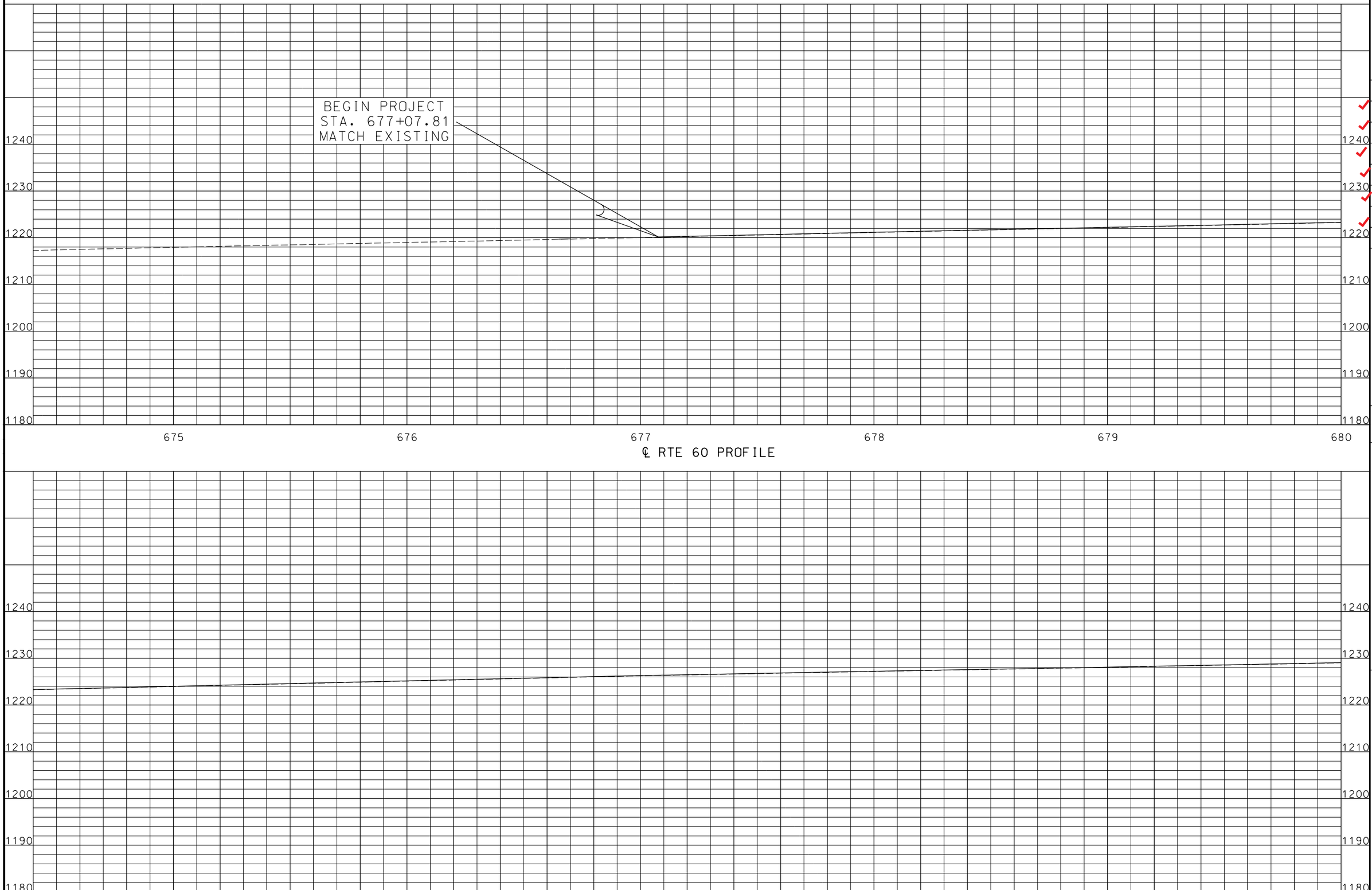

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DATE PREPARED
12/16/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	6

COUNTY
NEWTON

JOB NO.
J7P2179

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(40)

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PROFILE SHEET
(ROUTE 60)
SHEET 3 OF 10

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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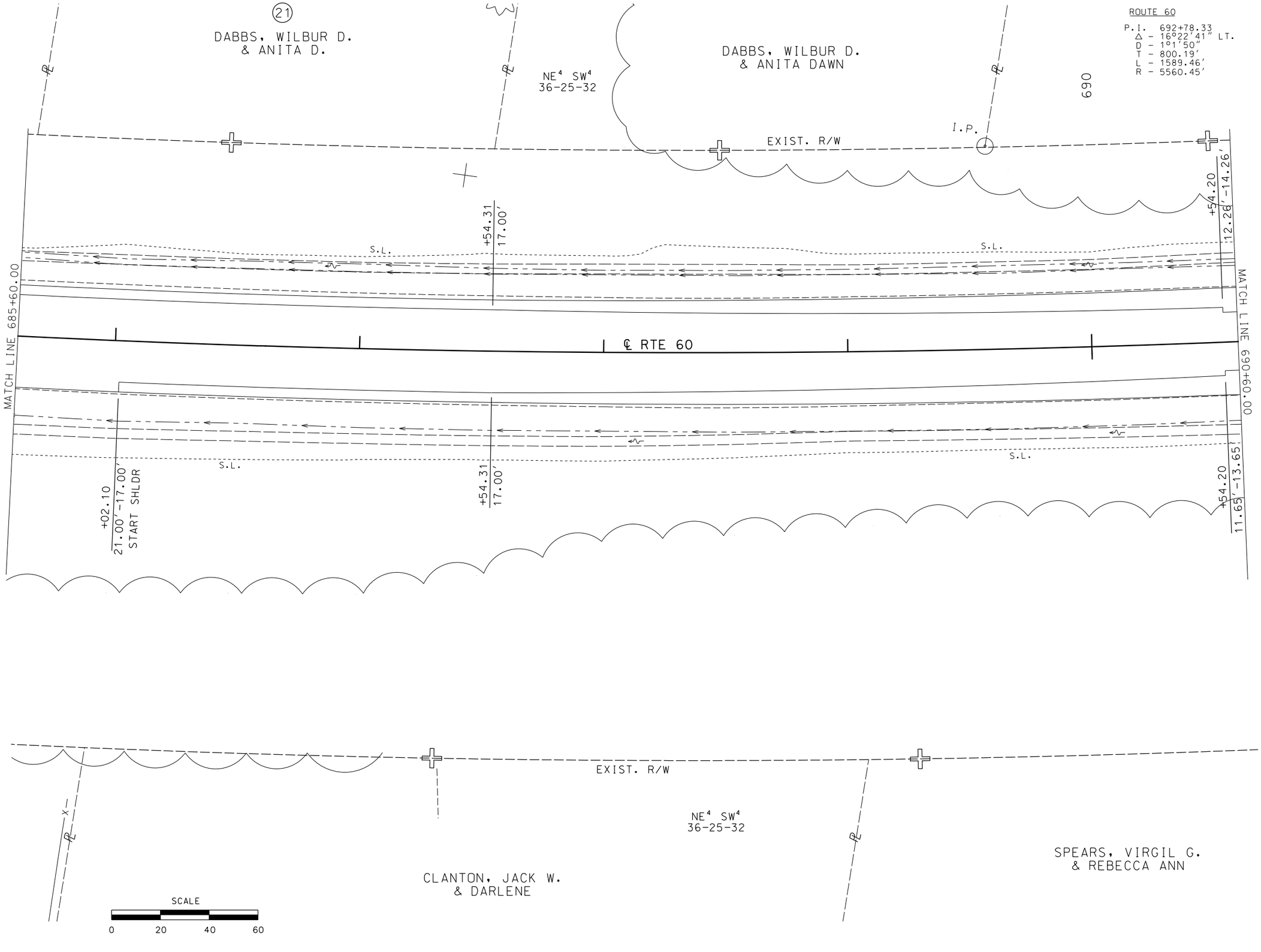

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DATE PREPARED	12/18/2015
ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	7
COUNTY	NEWTON
JOB NO.	J7P2179
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(40)
BRIDGE NO.	

DESCRIPTION	DATE

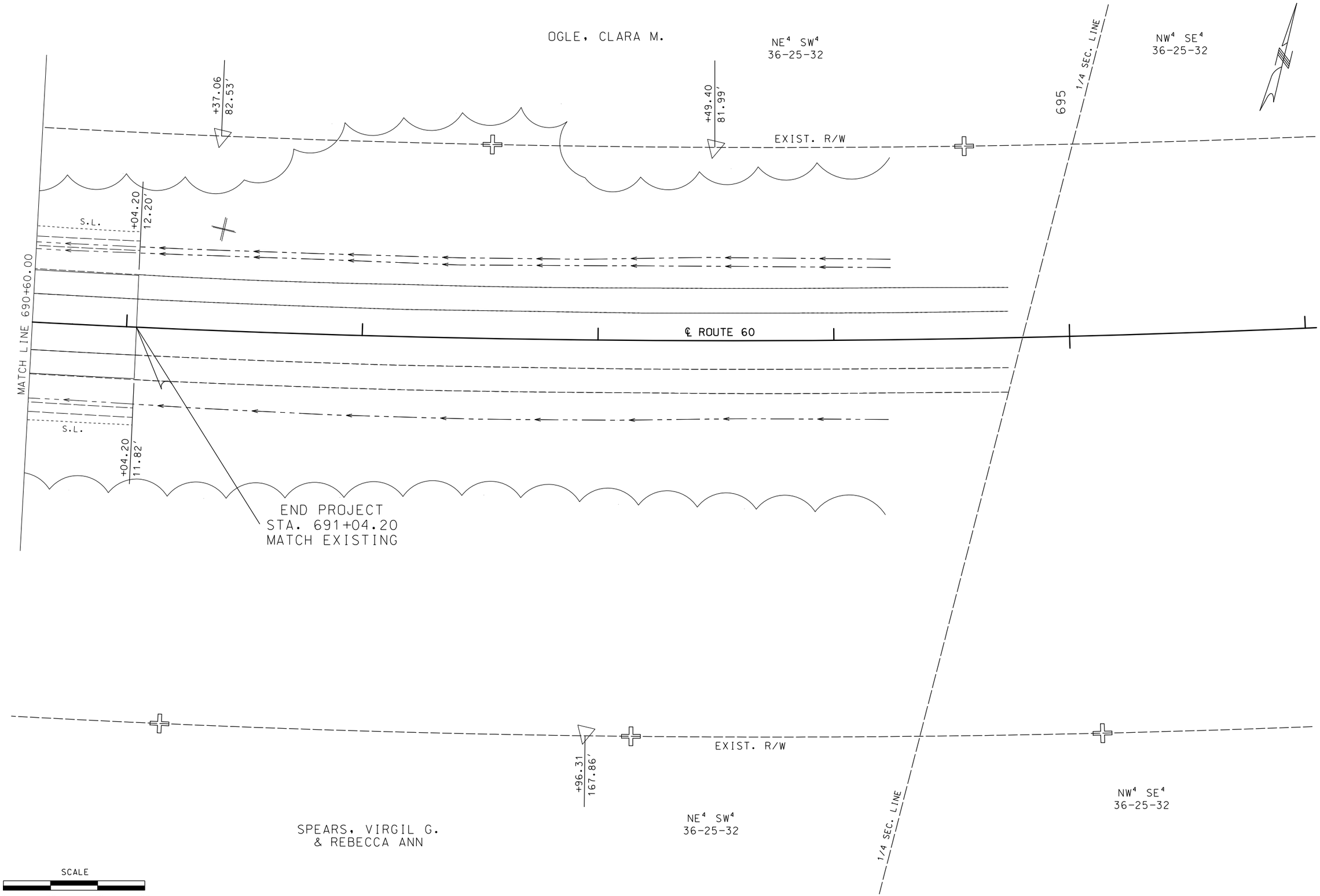
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PLAN SHEET
(ROUTE 60)
SHEET 4 OF 10

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



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DATE PREPARED	12/16/2015
ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	8
COUNTY	NEWTON
JOB NO.	J7P2179
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(40)
BRIDGE NO.	

REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PLAN SHEET
(ROUTE 60)
SHEET 5 OF 10

FINAL PLANS

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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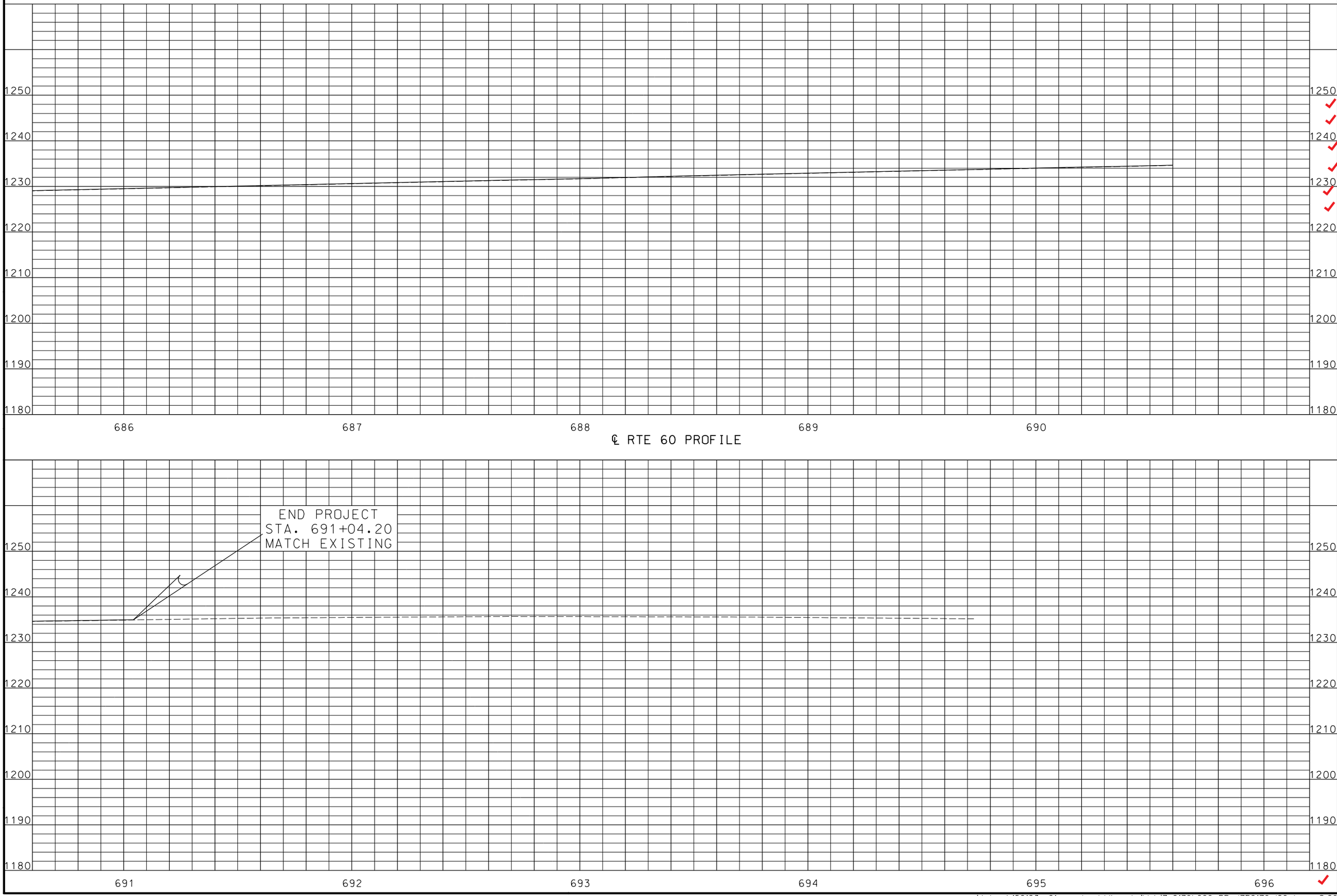

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/16/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	9

COUNTY
NEWTON

JOB NO.
J7P2179

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(40)

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PROFILE SHEET
(ROUTE 60)
SHEET 6 OF 10

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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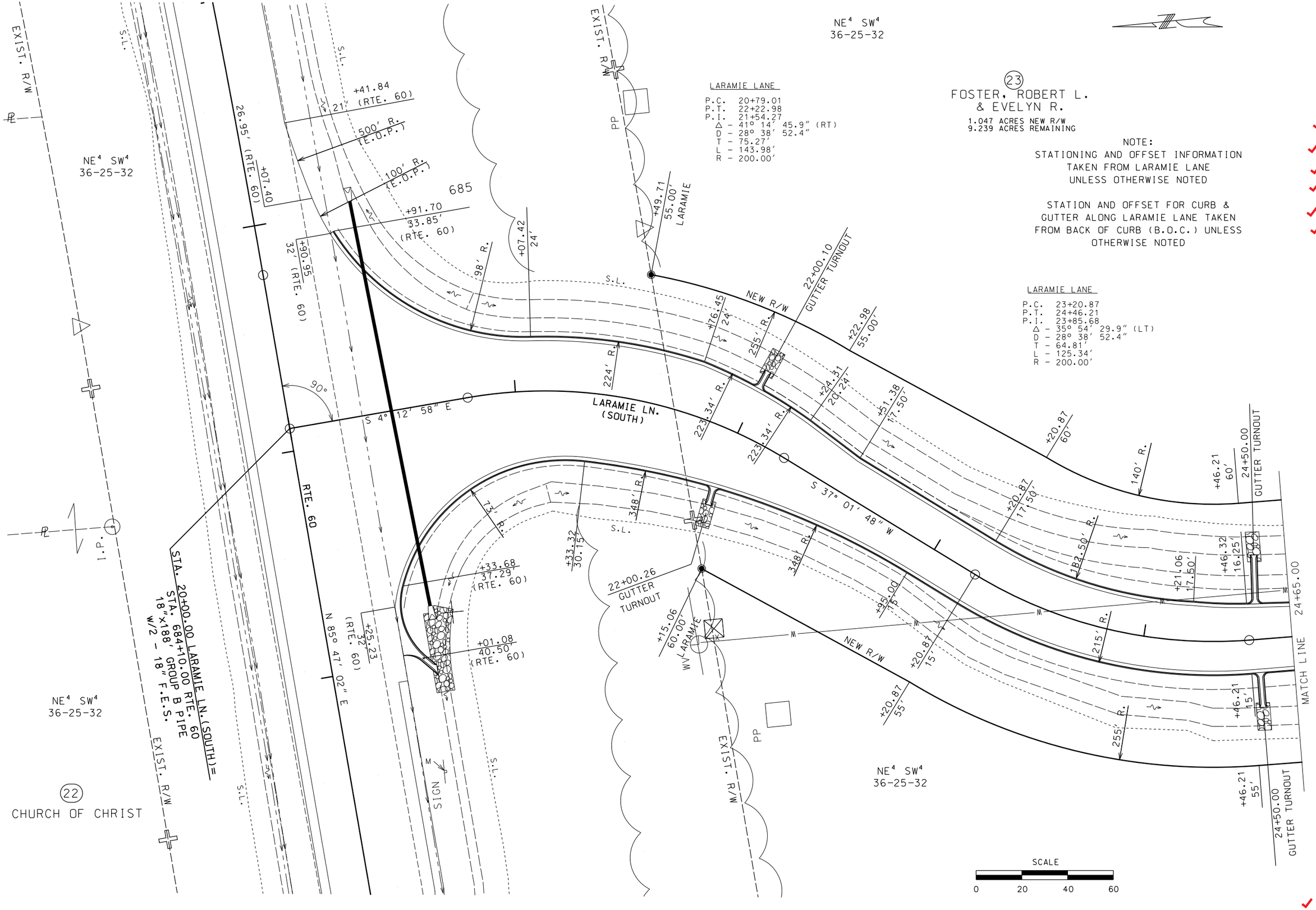

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DATE PREPARED	12/18/2015
ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	10
COUNTY	NEWTON
JOB NO.	J7P2179
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(40)
BRIDGE NO.	

NO.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PLAN SHEET
(LARAMIE LANE)
SHEET 7 OF 10

FINAL PLANS

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

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(23)
FOSTER, ROBERT L.
& EVELYN R.
1.047 ACRES NEW R/W
9.239 ACRES REMAINING

NE^4 SW^4
36-25-32

(25)
FOSTER, ROBERT L.
& EVELYN R.
0.515 ACRES NEW R/W
8.703 ACRES REMAINING

SE^4 SW^4
36-25-32

NOTE:
STATIONING AND OFFSET INFORMATION
TAKEN FROM LARAMIE LANE
UNLESS OTHERWISE NOTED

STATION AND OFFSET FOR CURB &
GUTTER ALONG LARAMIE LANE TAKEN
FROM BACK OF CURB (B.O.C.) UNLESS
OTHERWISE NOTED

25

30

+71.10
15
NEW R/W
S.L.

+80.00
60'

27+15.00
GUTTER TURNOUT

+20.00
℄ 65'

1/4 1/4 SEC. LINE

TYPE I DRWY. LT.
STA. 27+53.20' WIDE
10' R. AGGR. SURF.
18" GROUP C PIPE

+10.00
65'

+60.00
60'

29+75.00
GUTTER TURNOUT

EXIST. R/W

MATCH LINE 24+65.00

LARAMIE LANE (SOUTH)

S 1° 07' 18" W

S.S. SYSTEM #1
18" GROUP B PIPE

T RISER

MATCH LINE 30+20.00

+82.40 30.18' RT.
END 18" F.E.S.

TYPE I DRWY. RT.
STA. 25+06.20' WIDE
10' R. AGGR. SURF.

+31.64
26.21'

+31.84
55'

+45.00 16.42' RT.
CENTER OF TOP
PRECAST TYPE T D.I.

+05.00 16.42' RT.
CENTER OF TOP
PRECAST TYPE T D.I.

+31.49
26.24'

+31.75
60'

SIGN

TYPE I DRWY. RT.
STA. 27+53.20' WIDE
10' R. AGGR. SURF.

+70.00
60'

+82.66 33.39' RT.
END 18" F.E.S.

+10.00
55'

29+75.00
GUTTER TURNOUT

(24)
ARNCE, CHARLES A.
& ELLEN

NE^4 SW^4
36-25-32

1/4 1/4 SEC. LINE

(26)
FOSTER, ROBERT L.
& EVELYN R.
0.419 ACRES NEW R/W
3.774 ACRES REMAINING

SE^4 SW^4
36-25-32

SCALE
0 20 40 60

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DATE PREPARED
12/18/2015

ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. 11
COUNTY NEWTON
JOB NO. J7P2179
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(40)
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PLAN SHEET
(LARAMIE LANE)
SHEET 8 OF 10

FINAL PLANS

REV.

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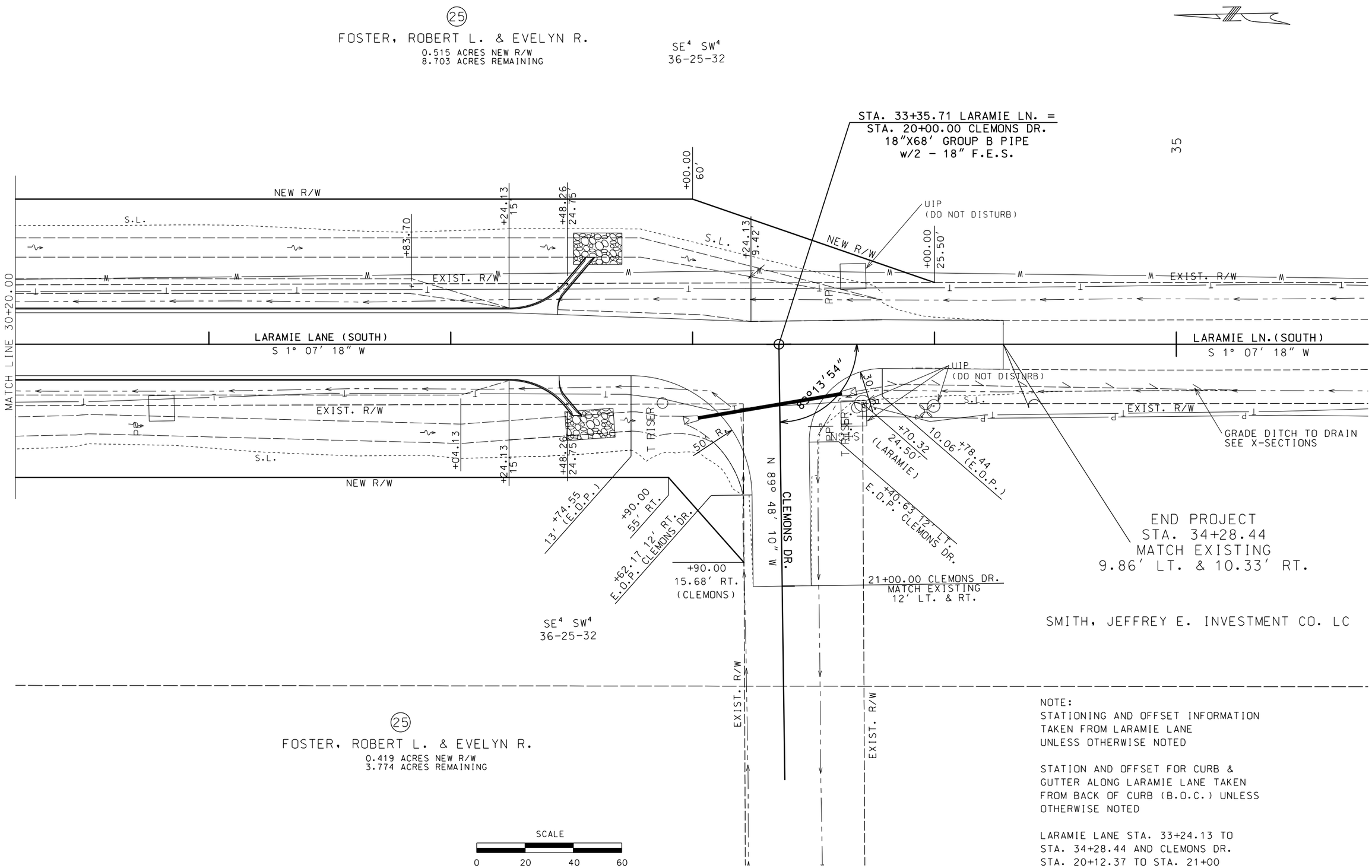

NOTE:
STATIONING AND OFFSET INFORMATION TAKEN FROM LARAMIE LANE UNLESS OTHERWISE NOTED

STATION AND OFFSET FOR CURB & GUTTER ALONG LARAMIE LANE TAKEN FROM BACK OF CURB (B.O.C.) UNLESS OTHERWISE NOTED

LARAMIE LANE STA. 33+24.13 TO STA. 34+28.44 AND CLEMONS DR. STA. 20+12.37 TO STA. 21+00 OVERLAY EXISTING PAVEMENT SEE TYPICALS FOR DETAILS

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DATE PREPARED	12/18/2015
ROUTE	60
STATE	MO
DISTRICT	SW
SHEET NO.	12
COUNTY	NEWTON
JOB NO.	J7P2179
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(40)
BRIDGE NO.	

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

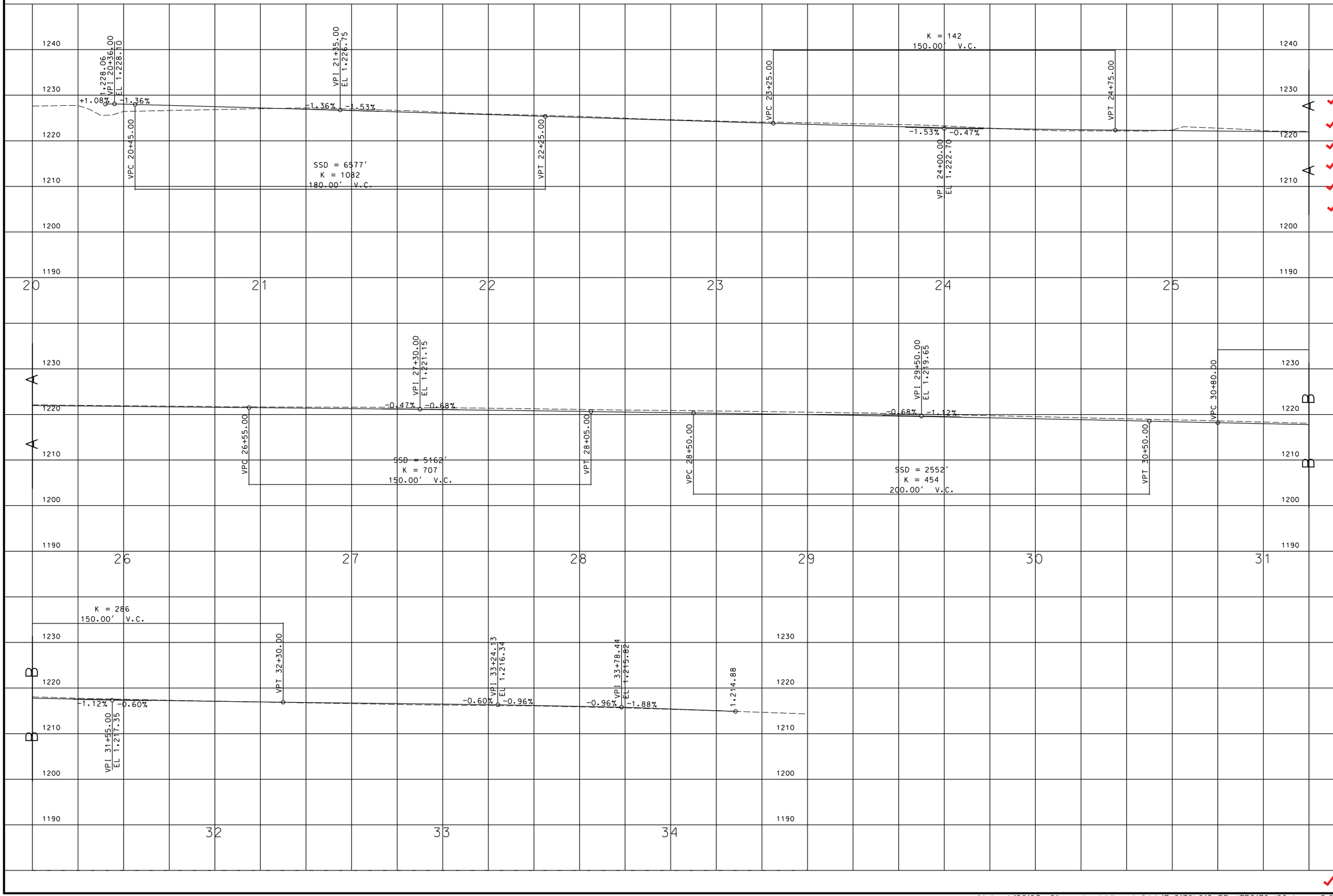
PLAN/PROFILE SHEET
LARAMIE LANE
SHEET 9 OF 10

FINAL PLANS

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

J:\DOCS\150123-G01_Neosho_TDD\As_Builds\J7P2179\012_PP_J7P2179_I20.dgn 12:51:27 PM 12/18/2015



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DATE PREPARED	12/16/2015
ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	13
COUNTY	NEWTON
JOB NO.	J7P2179
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(40)
BRIDGE NO.	

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PROFILE SHEET
(LARAMIE LANE)
SHEET 10 OF 10

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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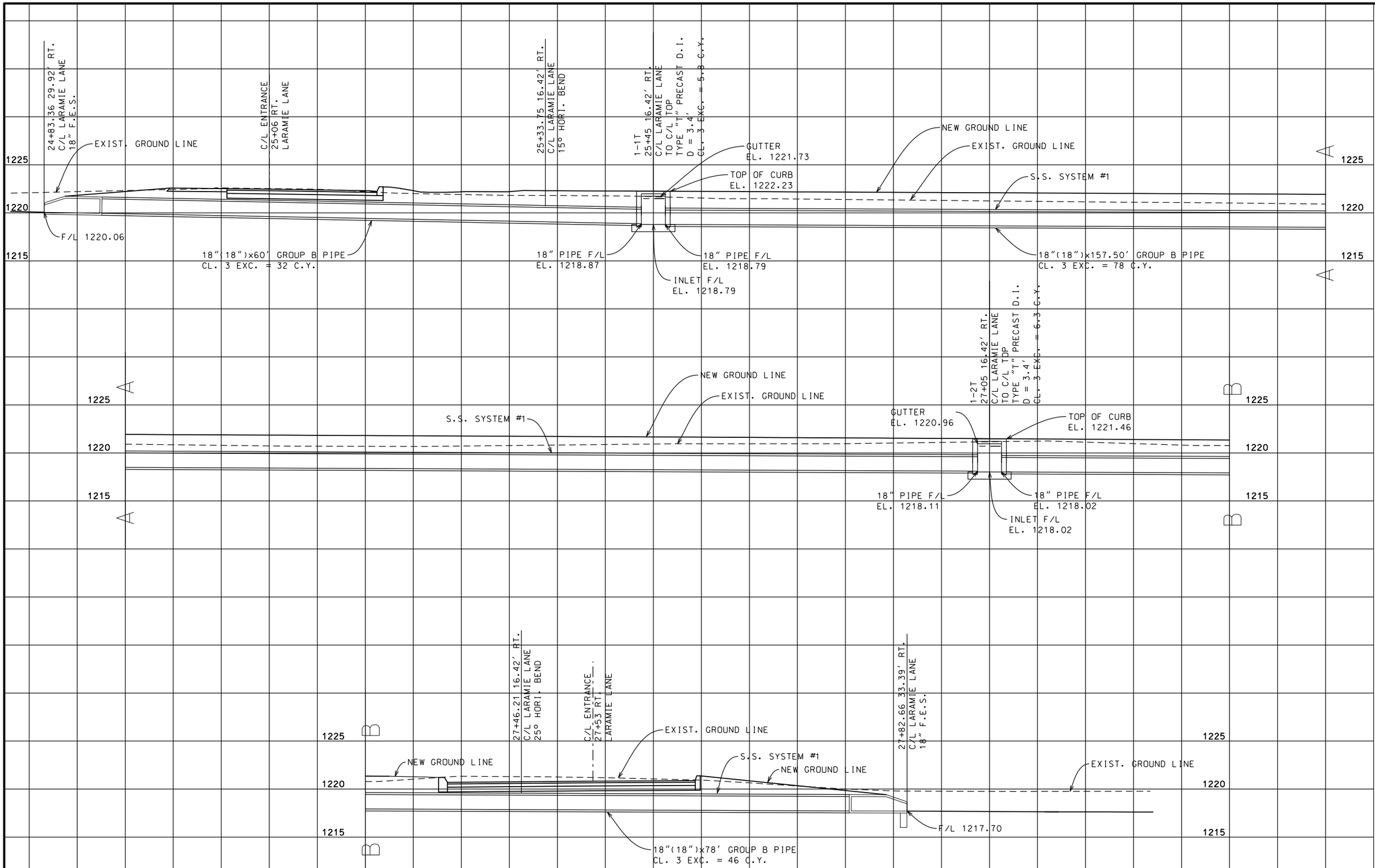

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DATE PREPARED
12/16/2015

ROUTE 60 | STATE MO

DISTRICT SW | SHEET NO. 14

COUNTY
NEWTON

JOB NO.
J7P2179

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(40)

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

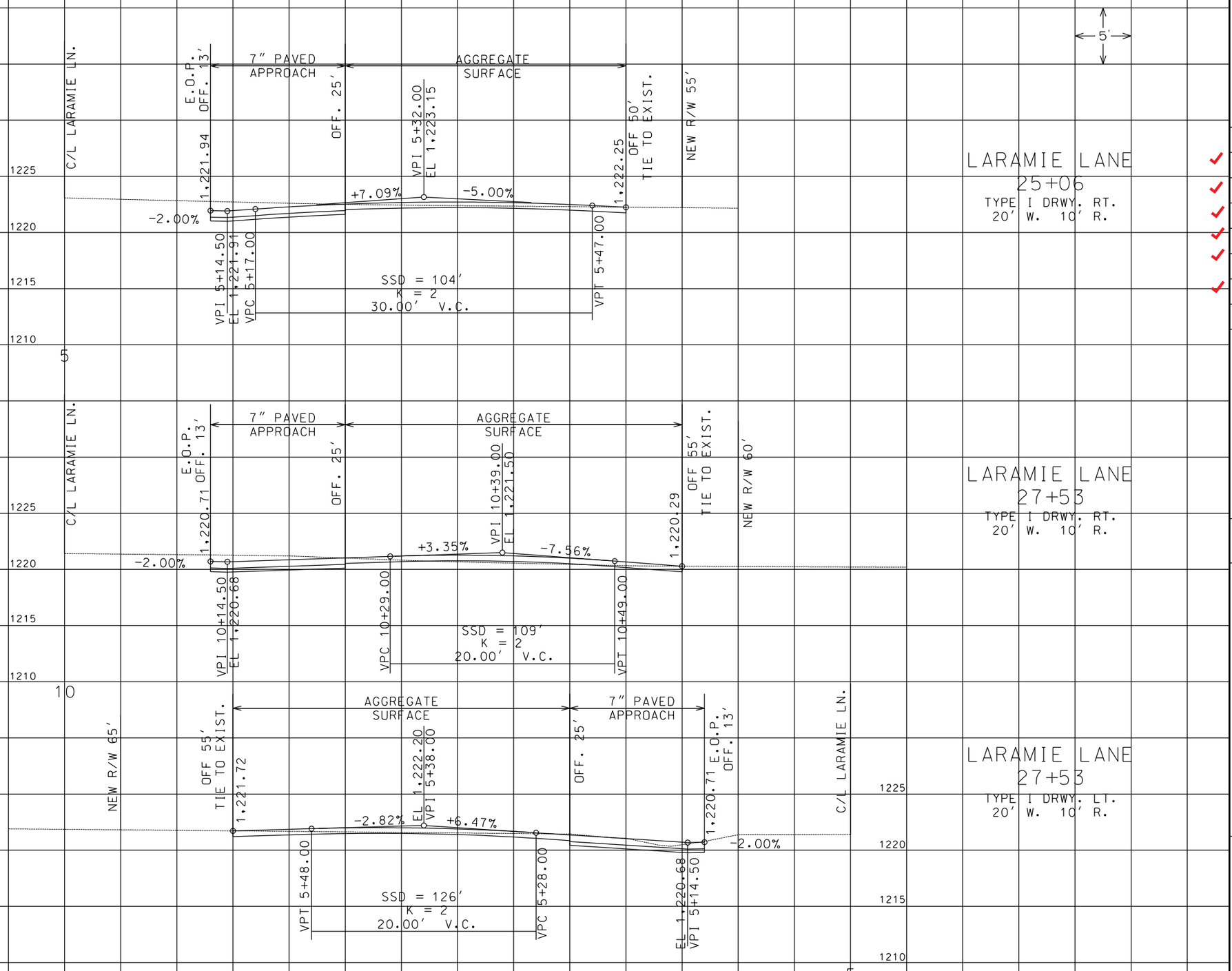
STORM SEWER
PROFILE SHEET
SHEET 1 OF 1

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

j:\docs\150123-g01_neosho_tdd\as_builds\j7p2179\014_PP_J7P2179_I5.dgn 7:28:34 AM 12/16/2015



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DATE PREPARED	12/16/2015
ROUTE	60
STATE	MO
DISTRICT	SW
SHEET NO.	15
COUNTY	NEWTON
JOB NO.	J7P2179
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(40)
BRIDGE NO.	

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

ENTRANCE PROFILE SHEET
SHEET 1 OF 1

FINAL PLANS

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

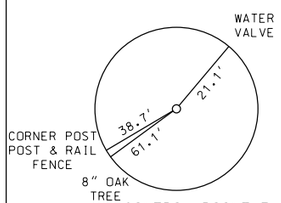
PROJECT COORDINATE SYSTEM IS BASED
ON GROUND DISTANCES, AND IS TIED TO
THE MISSOURI STATE PLANE COORDINATE
SYSTEM OF 1983 WEST ZONE AT:

GEOGRAPHIC REFERENCE STATION "LAFLIN" ELEV:1206.76
DATE OF ADJUSTMENT: 2007

VERTICAL DATUM: NAVD 1988

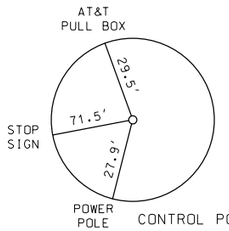
	STATE PLANE COORDINATES (METERS)		GROUND COORDINATES (FEET)
NORTHING	75,961.823 M	=	249,218.081 FT.
EASTING	857,578.297 M	=	2,817,333.656 FT.
ELEVATION	367.82 M	=	1206.76 FT.

5/8" REBAR CAPPED "MAI CP"



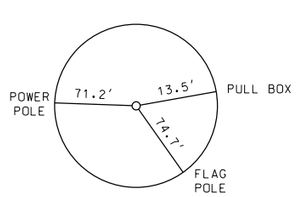
CONTROL POINT 7
N=245375.016
E=2821795.339
ELELV.=1223.27

5/8" REBAR CAPPED "MAI CP"



CONTROL POINT 8
N=244547.029
E=2821807.631
ELELV.=1215.03

5/8" REBAR CAPPED "MAI CP"



CONTROL POINT 9
N=243751.263
E=2821755.951
ELELV.=1203.06

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DATE PREPARED 12/16/2015
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. 16
COUNTY NEWTON
JOB NO. J7P2179
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(40)
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REFERENCE POINT SHEET
SHEET 1 OF 1

FINAL PLANS

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

Independent Project Coordinate System

STATION	LOCATION	OFFSET	NORTHING (FEET)	EASTING (FEET	DESCRIPTION	DESIGN PT. ID
ROUTE 60 ALIGNMENT						
650+00.00	ROUTE US 60	C/L	245598.671459	2818522.761345	BEGIN ALIGNMENT	RT601
684+78.15	ROUTE US 60	C/L	245854.378001	2821991.496902		PC RT601
692+78.33	ROUTE US 60	57.28' RT.	245913.206553	2822789.517112		PI RT601
700+67.61	ROUTE US 60	C/L	246194.668927	2823538.567168		PTRT601
710+74.26	ROUTE US 60	C/L	246548.754298	2824480.892848	END ALIGNMENT	RT604
LARAMIE LANE ALIGNMENT (SOUTH OF ROUTE 60)						
20+00.00	LARAMIE LANE	C/L	245849.367909	2821923.533506	BEGIN ALIGNMENT	LARAMIE21
20+79.01	LARAMIE LANE	C/L	245770.574204	2821929.341981		PC LARAMIE17
21+54.27	LARAMIE LANE	13.69' LT.	245695.510997	2821934.875454		PI LARAMIE17
22+22.98	LARAMIE LANE	C/L	245635.423928	2821889.547224		PT LARAMIE17
23+20.87	LARAMIE LANE	C/L	245557.280169	2821830.597464		PC LARAMIE18
23+85.68	LARAMIE LANE	10.24' RT.	245505.543386	2821791.568487		PI LARAMIE18
24+46.21	LARAMIE LANE	C/L	245440.748739	2821790.299811		PT LARAMIE18
40+99.58	LARAMIE LANE	C/L	243787.696401	2821757.933122		LARAMIE26
ALIGNMENT - SOUTHWEST QUADRANT OF LARAMIE LANE WITH ROUTE 60 INTERSECTION (FRONT EDGE OF CURB)						
30+00.00	S.W. QUADRANT	C/L	245811.222389	2821841.345583	BEGIN ALIGNMENT	PC LRS1
30+74.70	S.W. QUADRANT	30.85' LT.	245795.026797	2821914.265149		PI LRS1
31+17.51	S.W. QUADRANT	C/L	245722.042149	2821898.365412		PT LRS1
31+17.51	S.W. QUADRANT	C/L	245722.042149	2821898.365412		PC LRS2
31+94.27	S.W. QUADRANT	8.32' LT.	245647.040463	2821882.026262		PI LRS2
32+68.63	S.W. QUADRANT	C/L	245585.760772	2821835.798346	END ALIGNMENT	PT LRS2
ALIGNMENT - SOUTHEAST QUADRANT OF LARAMIE LANE WITH ROUTE 60 INTERSECTION (FRONT EDGE OF CURB)						
35+00.00	S.E. QUADRANT	C/L	245823.426221	2822006.692383	BEGIN ALIGNMENT	PC LRSS1
35+57.38	S.E. QUADRANT	15.29' RT.	245797.928566	2821955.288625		PI LRSS1
36+04.19	S.E. QUADRANT	C/L	245740.682897	2821951.363076	END ALIGNMENT	PT LRSS1
CLEMONS DRIVE ALIGNMENT						
20+00.00	CLEMONS DRIVE	C/L	244551.422398	2821772.886842	BEGIN ALIGNMENT	CLEMON1
21+80.00	CLEMONS DRIVE	C/L	244552.532293	2821592.890264	END ALIGNMENT	CLEMON2
ALIGNMENT - NORTHWEST QUADRANT OF CLEMONS DRIVE WITH LARAMIE LANE INTERSECTION (EDGE OF PAVEMENT)						
10+00.00	N.W. QUADRANT	C/L	244612.825780	2821761.086626	BEGIN ALIGNMENT	PC BSCLMNA1
10+49.33	N.W. QUADRANT	20.24' LT.	244563.501344	2821760.120855		PI BSCLMNA1
10+77.87	N.W. QUADRANT	C/L	244563.805541	2821710.787903	END ALIGNMENT	PT BSCLMNA1
HEARTHSIDE STREET ALIGNMENT (NORTH OF ROUTE 60)						
20+00.00	HEARTHSIDE STREET	C/L	246471.585053	2822136.935433	BEGIN ALIGNMENT	LARAMIE15
21+34.27	HEARTHSIDE STREET	C/L	246337.320443	2822135.793661		PC LARAMIE15
22+03.09	HEARTHSIDE STREET	11.51' LT.	246268.507202	2822135.208480		PI LARAMIE15
22+66.83	HEARTHSIDE STREET	C/L	246214.622841	2822092.405674		PT LARAMIE15
24+76.75	HEARTHSIDE STREET	C/L	246050.245841	2821961.833528		PC LARAMIE16
25+54.88	HEARTHSIDE STREET	14.72' RT.	245989.065678	2821913.235334		PI LARAMIE16
26+25.72	HEARTHSIDE STREET	C/L	245911.143917	2821918.979532		PT LARAMIE16
26+87.67	HEARTHSIDE STREET	C/L	245849.367909	2821923.533506		LARAMIE20
ROCKETDYNE ROAD ALIGNMENT						
40+00.00	ROCKETDYNE ROAD	C/L	246474.751610	2821764.570091	BEGIN ALIGNMENT	7
47+01.11	ROCKETDYNE ROAD	C/L	246468.789680	2822465.652124	END ALIGNMENT	8
ALIGNMENT - NORTHWEST QUADRANT OF LARAMIE LANE WITH ROUTE 60 INTERSECTION (FRONT EDGE OF CURB)						
30+00.00	N.W. QUADRANT	C/L	245954.959383	2821903.399943	BEGIN ALIGNMENT	PC ALARAMIEN11
30+28.74	N.W. QUADRANT	2.73' LT.	245926.475016	2821899.543733		PI ALARAMIEN11
30+56.80	N.W. QUADRANT	C/L	245901.434084	2821885.430575		PT ALARAMIEN11
30+56.80	N.W. QUADRANT	C/L	245901.434084	2821885.430575		PC ALARAMIEN12
30+75.84	N.W. QUADRANT	2.95' LT.	245884.851281	2821876.084449		PI ALARAMIEN12
30+93.67	N.W. QUADRANT	C/L	245876.689228	2821858.887927	END ALIGNMENT	PT ALARAMIEN12
ALIGNMENT - NORTHWEST QUADRANT OF LARAMIE LANE WITH ROUTE 60 INTERSECTION (FRONT EDGE OF CURB)						
35+00.00	N.E. QUADRANT	C/L	246078.047112	2822000.519647	BEGIN ALIGNMENT	ALARAMIEN21
35+35.63	N.E. QUADRANT	C/L	246048.867573	2821980.069947		PC ALARAMIEN21
35+98.48	N.E. QUADRANT	10.94' RT.	245997.398791	2821943.999425		PI ALARAMIEN21
36+56.31	N.E. QUADRANT	C/L	245934.741462	2821948.916458		PT ALARAMIEN21
36+56.31	N.E. QUADRANT	C/L	245934.741462	2821948.916458		PC ALARAMIEN22
36+74.14	N.E. QUADRANT	3.08' RT.	245916.969999	2821950.311074		PI ALARAMIEN22
36+90.56	N.E. QUADRANT	C/L	245904.089114	2821962.633926		PT ALARAMIEN22
36+90.56	N.E. QUADRANT	C/L	245904.089114	2821962.633926		PC ALARAMIEN23
37+08.23	N.E. QUADRANT	2.36' RT.	245891.317571	2821974.852175		PI ALARAMIEN23
37+25.07	N.E. QUADRANT	C/L	245886.491934	2821991.855443	END ALIGNMENT	PT ALARAMIEN23

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/16/2015

ROUTE 60 | STATE MO

DISTRICT SW | SHEET NO. 17

COUNTY
NEWTON

JOB NO.
J7P2179

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(40)

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

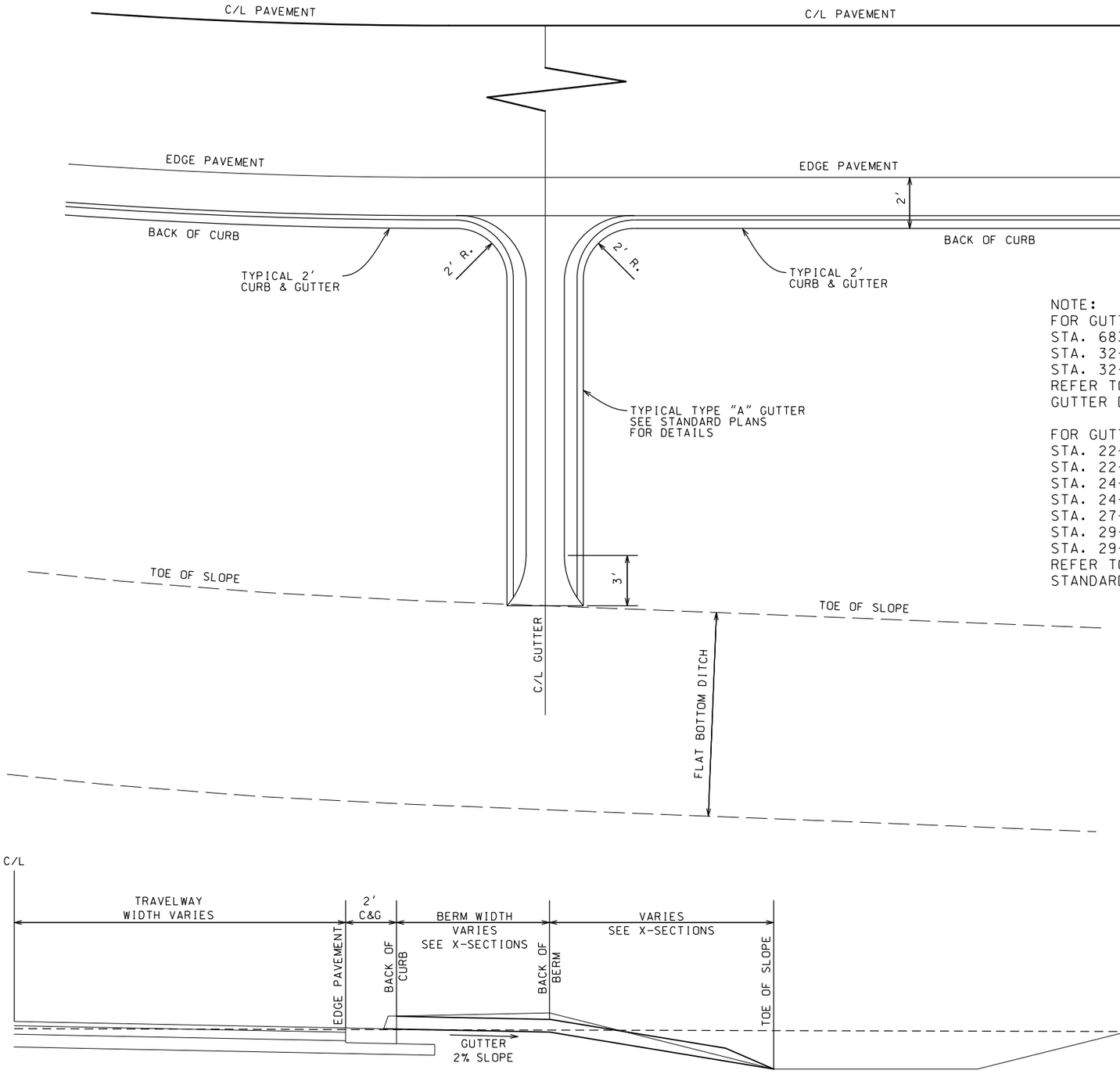
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

COORDINATE POINT SHEET
SHEET 1 OF 1

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



NOTE:
FOR GUTTER TURNOUTS AT
STA. 683+01.08 40.50' RT. RTE. 60
STA. 32+48.26 24.75' RT. LARAMIE LANE
STA. 32+48.26 24.75' LT. LARAMIE LANE
REFER TO STANDARD PLANS FOR CURB & GUTTER DETAILS

FOR GUTTER TURNOUTS AT
STA. 22+00.10 LT. LARAMIE LANE
STA. 22+00.26 RT. LARAMIE LANE
STA. 24+50.00 RT. LARAMIE LANE
STA. 24+50.00 LT. LARAMIE LANE
STA. 27+15.00 LT. LARAMIE LANE
STA. 29+75.00 RT. LARAMIE LANE
STA. 29+75.00 LT. LARAMIE LANE
REFER TO THIS SHEET AND THE STANDARD PLANS FOR DETAILS

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/16/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	18

COUNTY
NEWTON

JOB NO.
J7P2179

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(40)

BRIDGE NO.

DESCRIPTION

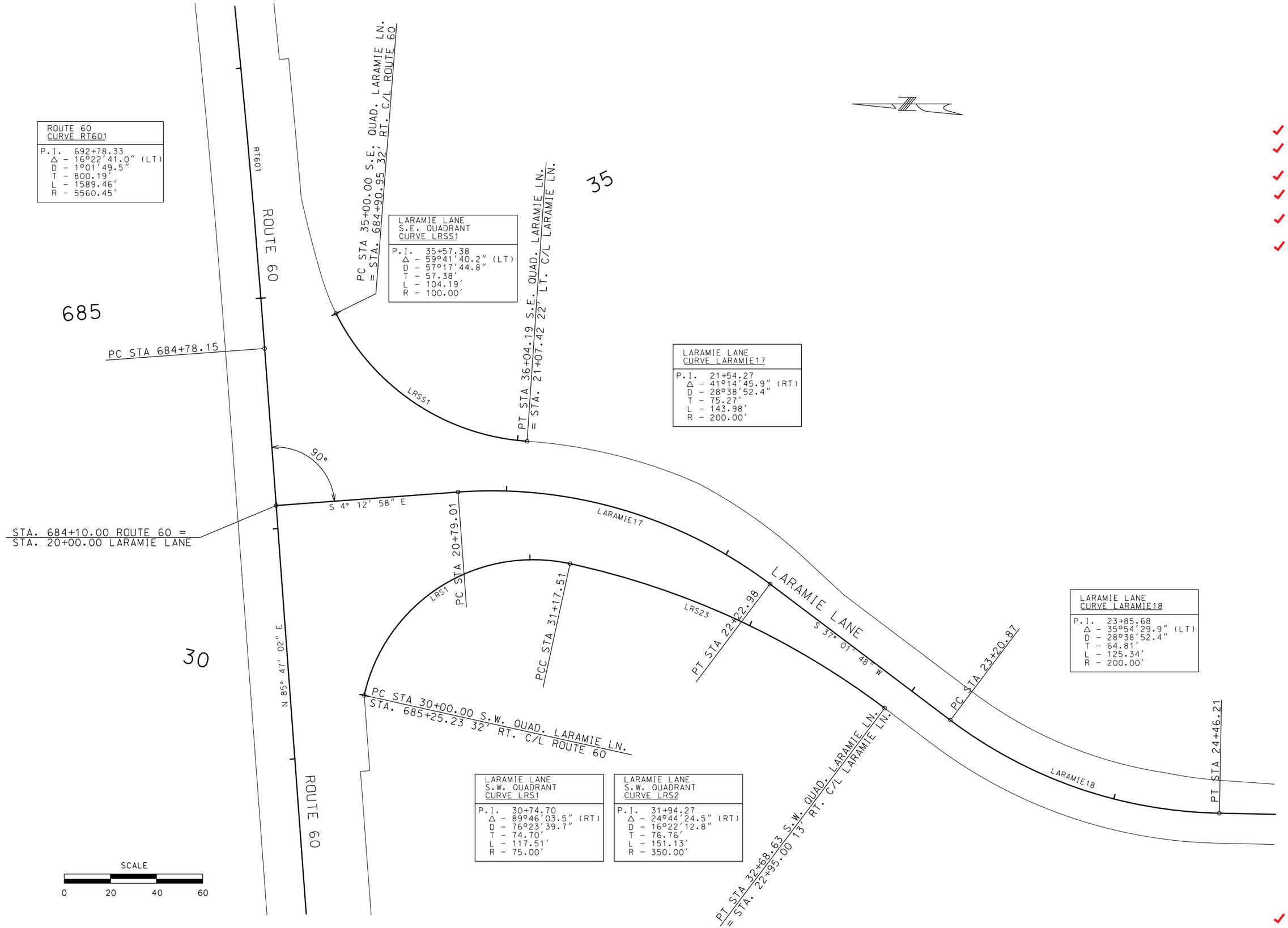
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SPECIAL SHEET
GUTTER TURNOUT DETAILS)
SHEET 1 OF 3

FINAL PLANS

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/16/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	19

COUNTY
NEWTON

JOB NO.
J7P2179

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(40)

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SPECIAL SHEET
ALIGNMENT DETAILS
SHEET 2 OF 3

FINAL PLANS

30

10

35

STA. 33+35.71 LARAMIE LANE
= STA. 20+00.00 CLEMONS DR.

LARAMIE LANE

S 1° 07' 18" W

PC STA 10+00.00

89°13'53.6"

CLEMONS DR.

PT STA 10+77.87

N 88° 38' 48" W

CLEMONS DR N.W. QUAD. CURVE BSCLMNA1
P.I. 10+49.33 Δ - 89°13'53.7" (RT) D - 114°35'29.6" T - 49.33' L - 77.87' R - 50.00'

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/16/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	20

COUNTY
NEWTON

JOB NO.
J7P2179

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(40)

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SPECIAL SHEET
ALIGNMENT DETAILS
SHEET 3 OF 3

FINAL PLANS

680

690

JCT

M2-1

BUSINESS LOOP 49

M1-2

(RELOCATE)

8

681+24

STA. 684+10.00 RTE. 60 =
STA. 26+87.67 LARAMIE LN.(NORTH)=
STA. 20+00.00 LARAMIE LN.(SOUTH)

PC STA. 684+78.15

RTE 60

SIGN

SIGN

SIGN

680+34

RIGHT LANE MUST TURN RIGHT

R3-7R

30"x30"

1

682+51

SPEED LIMIT 45

R2-1

(RELOCATE)

9

20+58

BACK TO BACK

YIELD

48"

R1-2

DO NOT ENTER

R5-1

30"x30"

2

LARAMIE LN. (SOUTH)

684+72

YIELD

48"

R1-2

BACK TO BACK

DO NOT ENTER

R5-1

30"x30"

4

25

SCALE

0 50 100 150

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/16/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	40

COUNTY
NEWTON

JOB NO.
J7P2179

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(40)

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNING SHEET
SHEET 1 OF 3

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

EFFECTIVE 01-01-2003

SIGNS					PIPE POST					STRUCTURAL STEEL POSTS						BACKING BARS 2" X 3/8" BARS @ 2.55 LBS PER LIN FT				TOTAL ITEM NO. 903-12.10	U-CHANNEL POST ITEM NO. 903-12.50	WOOD POSTS			PERF. STEEL SQ.		BREAKAWAY ASSEMBLY ITEM NO. 903-12.40	CONC FTG'S EMBD ITEM NO. 903-10.10	CONC FTG'S BOLT DOWN ITEM NO. 903-10.20	HORZ CLEAR IF NOT STD	DELINEATORS, MILEPOSTS, CONDUIT, CONDUCTOR CABLE, TRENCHING AND BACKFILLING. CONTROL STATION, PULL BOXES AND OTHER REQUIRED ITEMS.
SIGN NO.	STATION	SIGN DTL. SHT. NO.	LOCATION	SIGN SIZE	PIPE SIZE	POST NO. 1	POST NO. 2	LBS PER FT	TOTAL ITEM NO. 903-12.20	POST DES NO.	POST NO. 1	POST NO. 2	POST NO. 3	LBS PER FT	TOTAL	NO. EACH	LGTH IN.	TOTAL LIN FT	TOTAL LBS			4"X4" ITEM NO. 903-12.60	4"X6" ITEM NO. 903-12.61	6"X6" ITEM NO. 903-12.62	POSTS ITEM NO. 903-12.70	ANCHOR SLEEVE ITEM NO. 903-12.71					
					IN.	LIN FT	LIN FT		LBS		LIN FT	LIN FT	LIN FT		LBS					LBS	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	EACH	CU YDS	CU YDS		
1	680+34		RTE 60 RT	30"x30"																					16	3.25		0.09			✓
2	20+58		LARAMIE S RT	ASSEMBLY																					16	3.25		0.09			✓
4	684+72		RTE 60 RT	ASSEMBLY																					16	3.25		0.09			✓
8	681+24		RTE 60 LT	ASSEMBLY																						3.25		0.09			✓
9	682+51		RTE 60 RT	36"x48"																						3.25		0.09			✓
TOTAL																									TOTAL	✓ 48	✓ 16.25		✓ 0.45		
																									USE	✓ 48	✓ 16		✓ 0.5		

RELOCATE EXIST SIGN & POST 8
STA. 681+24 LT. ROUTE 60 TO NEW ANCHOR
RELOCATE EXIST. SIGN & POST 9
STA. 682+51 RT. ROUTE 60 TO NEW ANCHOR

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DATE PREPARED
12/16/2015

ROUTE 60 | STATE MO

DISTRICT SW | SHEET NO. 41

COUNTY
NEWTON

JOB NO.
J7P2179

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(40)

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNING SHEET
SHEET 2 OF 3

D-29 | FINAL PLANS

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	STATION	LOCATION	TYPE: SHR2L-1	TYPE: SHR2L-1
			SIGN DESCRIPTION, SIZES & NUMBER OF EACH	
			 48"	 30"x30"
2	20+58	LARAMIE LN S RT.	1	1
4	684+72	RTE 60 RT.	1	1

SIGN SUMMARY

STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQUARE FEET: SIZE	SHR2L-1 ITEM NO. 903-50.04	STR2L-1 ITEM NO. 903-50.64	SHR2L-3 ITEM NO. 903-50.65	STR2L-3 ITEM NO. 903-50.11	SHR4L-1 ITEM NO. 903-50.69	STR4L-1 ITEM NO. 903-50.71	SHR4L-3 ITEM NO. 903-50.70	STR4L-3 ITEM NO. 903-50.72	48" STOP EACH	36" STOP EACH
2,4		2	48"	13.8									
2,4 		2	30" x 30"	12.5									
1 		1	30" x 30"	6.3									
			TOTAL	32.6									
			USE	✓ 33									

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DATE PREPARED 12/16/2015

ROUTE 60 | STATE MO

DISTRICT SW | SHEET NO. 42

COUNTY NEWTON

JOB NO. J7P2179

CONTRACT ID. 150123-G01

PROJECT NO. FAF-60-1(40)

BRIDGE NO.

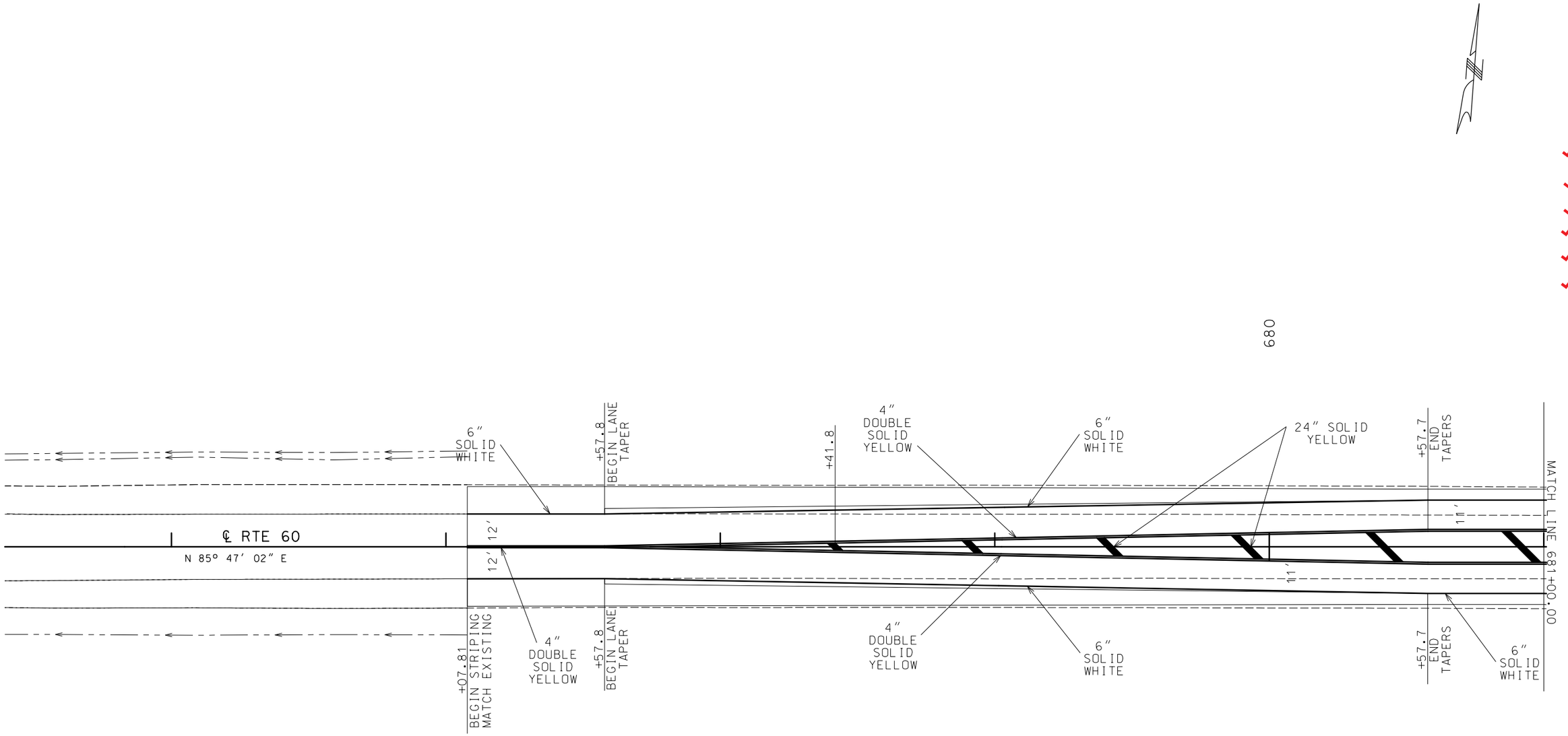
DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

SIGNING SHEET
SHEET 3 OF 3



NOTE:

IF ADD ALTERNATE "C" IS AWARDED, USE PAVEMENT MARKING QUANTITIES WITH ADD ALTERNATE "C" FOR ROUTE 60 CENTER LANE PAVEMENT MARKING STA. 677+57.8 TO STA. 683+73.5 AND ROUTE 60 LEFT EDGE LINE PAVEMENT MARKING FOR STA. 677+57.8 TO STA. 687+19.9

SCALE

0 20 40 60

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DATE PREPARED 12/16/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	43

COUNTY: NEWTON

JOB NO.: J7P2179

CONTRACT ID.: 150123-G01

PROJECT NO.: FAF-60-1(40)

BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

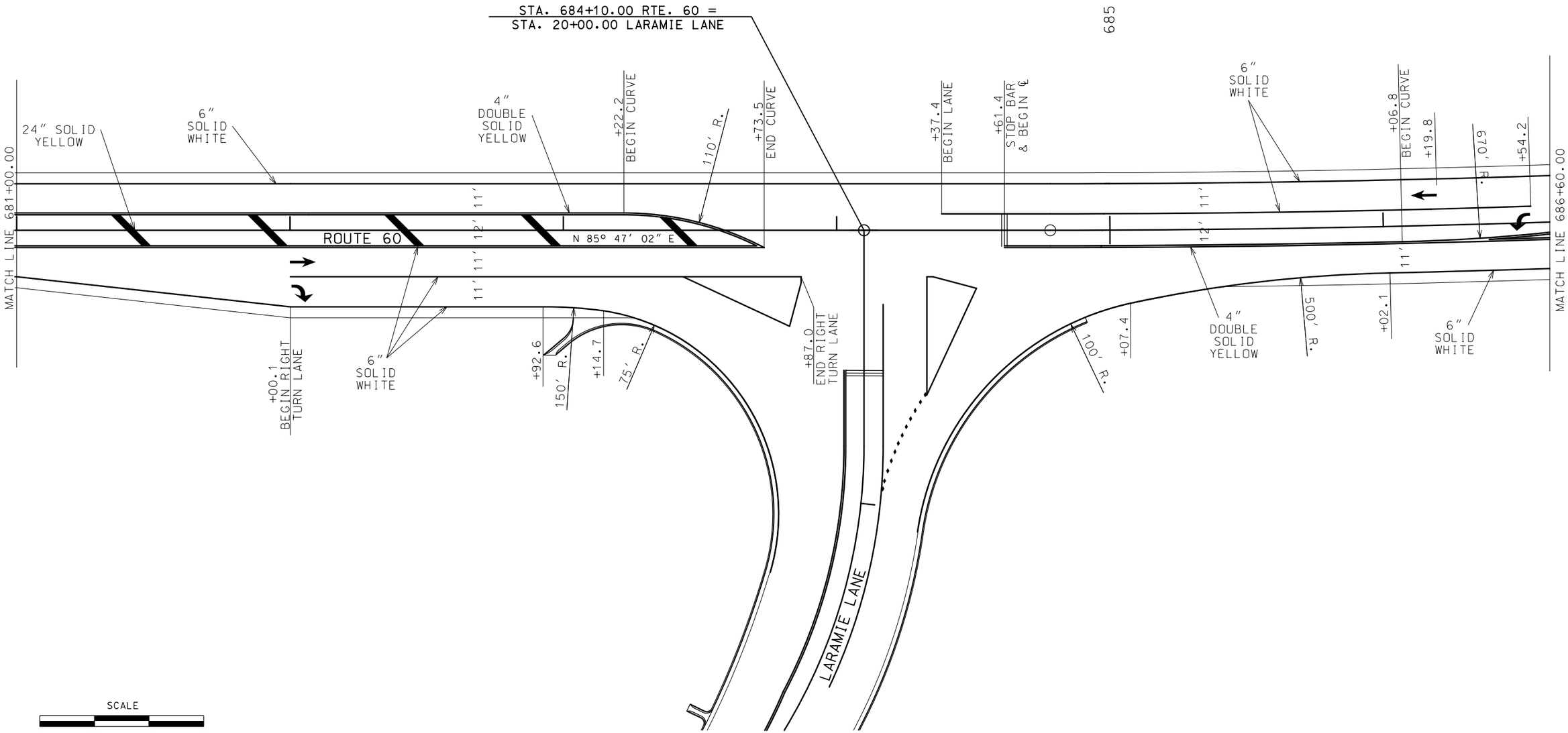
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PAVEMENT MARKING SHEET
SHEET 1 OF 5

FINAL PLANS

REV.

NOTE:
IF ADD ALTERNATE "C" IS AWARDED, USE PAVEMENT MARKING QUANTITIES WITH ADD ALTERNATE "C" FOR ROUTE 60 CENTER LANE PAVEMENT MARKING STA. 677+57.8 TO STA. 683+73.5 AND ROUTE 60 LEFT EDGE LINE PAVEMENT MARKING FOR STA. 677+57.8 TO STA. 687+19.9



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/16/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	44

COUNTY: NEWTON
JOB NO.: J7P2179
CONTRACT ID.: 150123-G01
PROJECT NO.: FAF-60-1(40)
BRIDGE NO.:

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

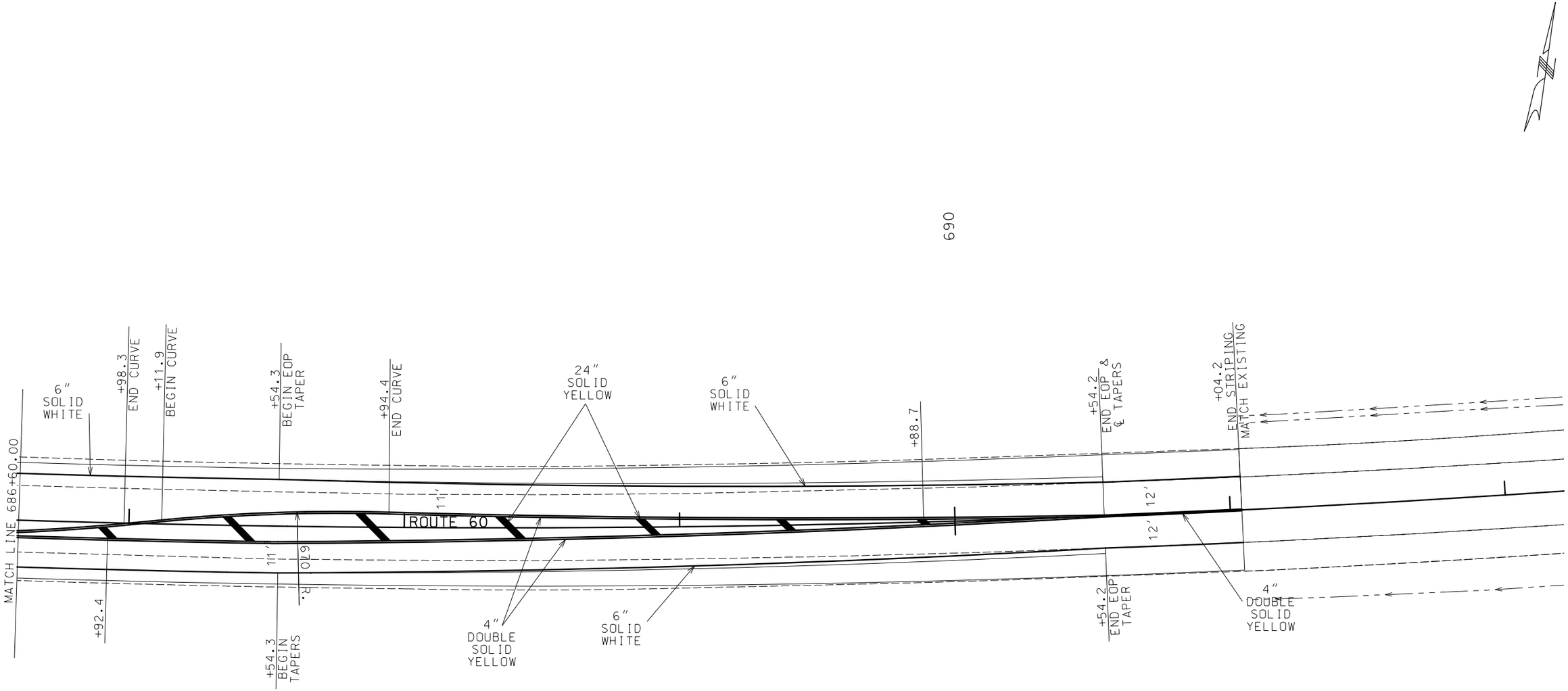
PAVEMENT MARKING SHEET
SHEET 2 OF 5

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

j:\docs\150123-g01_neosho_tdd\as_builds\j7p2179\044_PM_02_J7P2179_120.dgn 8:09:19 AM 12/16/2015



NOTE:

IF ADD ALTERNATE "C" IS AWARDED, USE PAVEMENT MARKING QUANTITIES WITH ADD ALTERNATE "C" FOR ROUTE 60 CENTER LANE PAVEMENT MARKING STA. 677+57.8 TO STA. 683+73.5 AND ROUTE 60 LEFT EDGE LINE PAVEMENT MARKING FOR STA. 677+57.8 TO STA. 687+19.9

SCALE

0 20 40 60

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/16/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	45

COUNTY
NEWTON

JOB NO.
J7P2179

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(40)

BRIDGE NO.

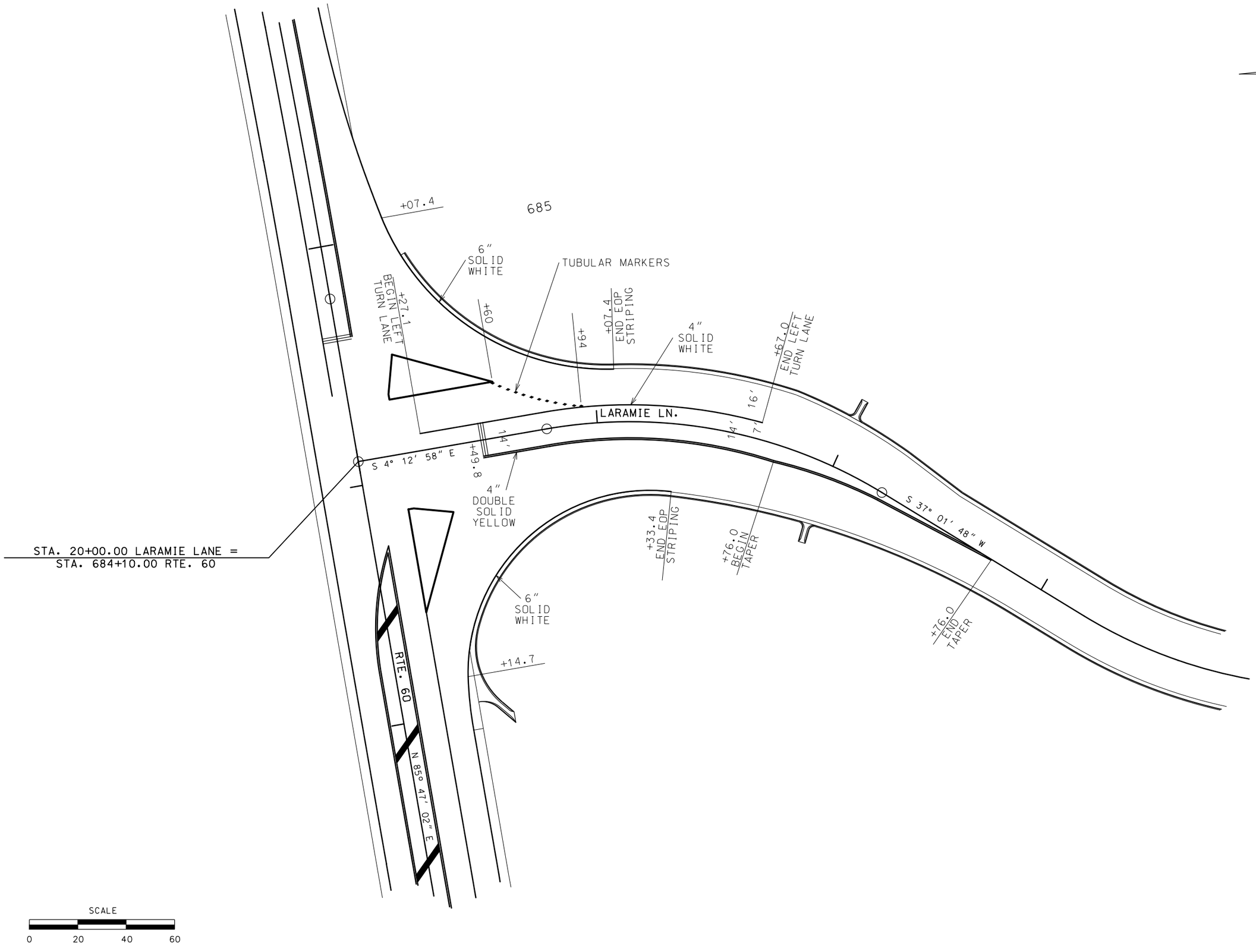
REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PAVEMENT MARKING SHEET
SHEET 3 OF 5

FINAL PLANS

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/16/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	46

COUNTY
NEWTON

JOB NO.
J7P2179

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(40)

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PAVEMENT MARKING SHEET
SHEET 4 OF 5

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

685

STA. 684+10.00 RTE. 60 =
STA. 20+00.00 LARAMIE LANE

PC STA. 684+78.15

ROUTE 60

N 85° 47' 02" E

8" SOLID WHITE

+87.0

+17.0

+19.3

+43.8

+35.2

+82.7

8" SOLID WHITE

8" SOLID WHITE

+33.0

+35.3

+17.0

+21.3

+51.2

8" SOLID WHITE

8" SOLID WHITE

+60.2

LARAMIE LANE

SCALE

0 10 20 30

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/16/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	47

COUNTY
NEWTON

JOB NO.
J7P2179

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(40)

BRIDGE NO.

DATE	DESCRIPTION

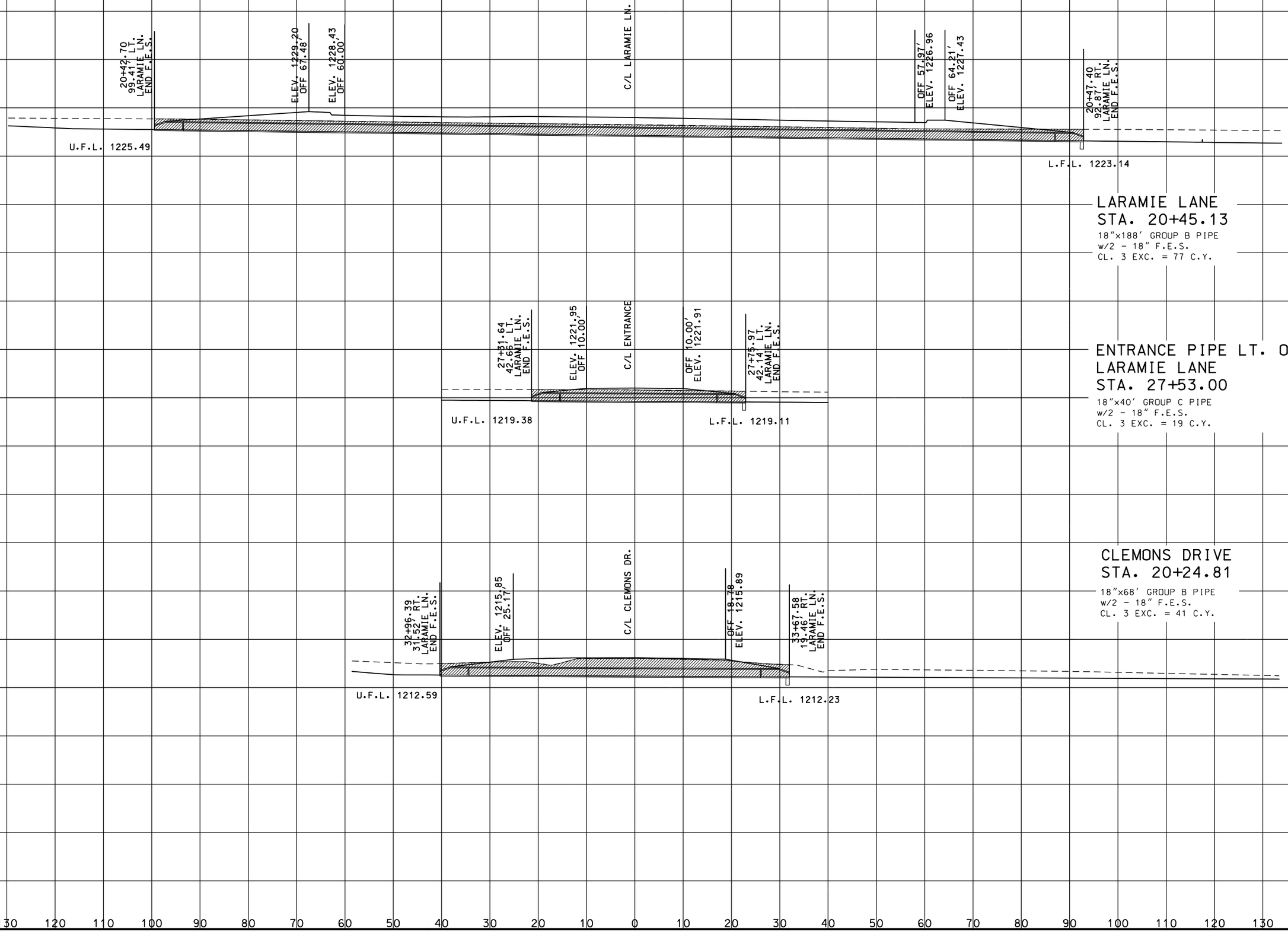
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PAVEMENT MARKING SHEET
SHEET 5 OF 5

FINAL PLANS

REV.



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/16/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	48

COUNTY
NEWTON

JOB NO.
J7P2179

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(40)

BRIDGE NO.

DESCRIPTION

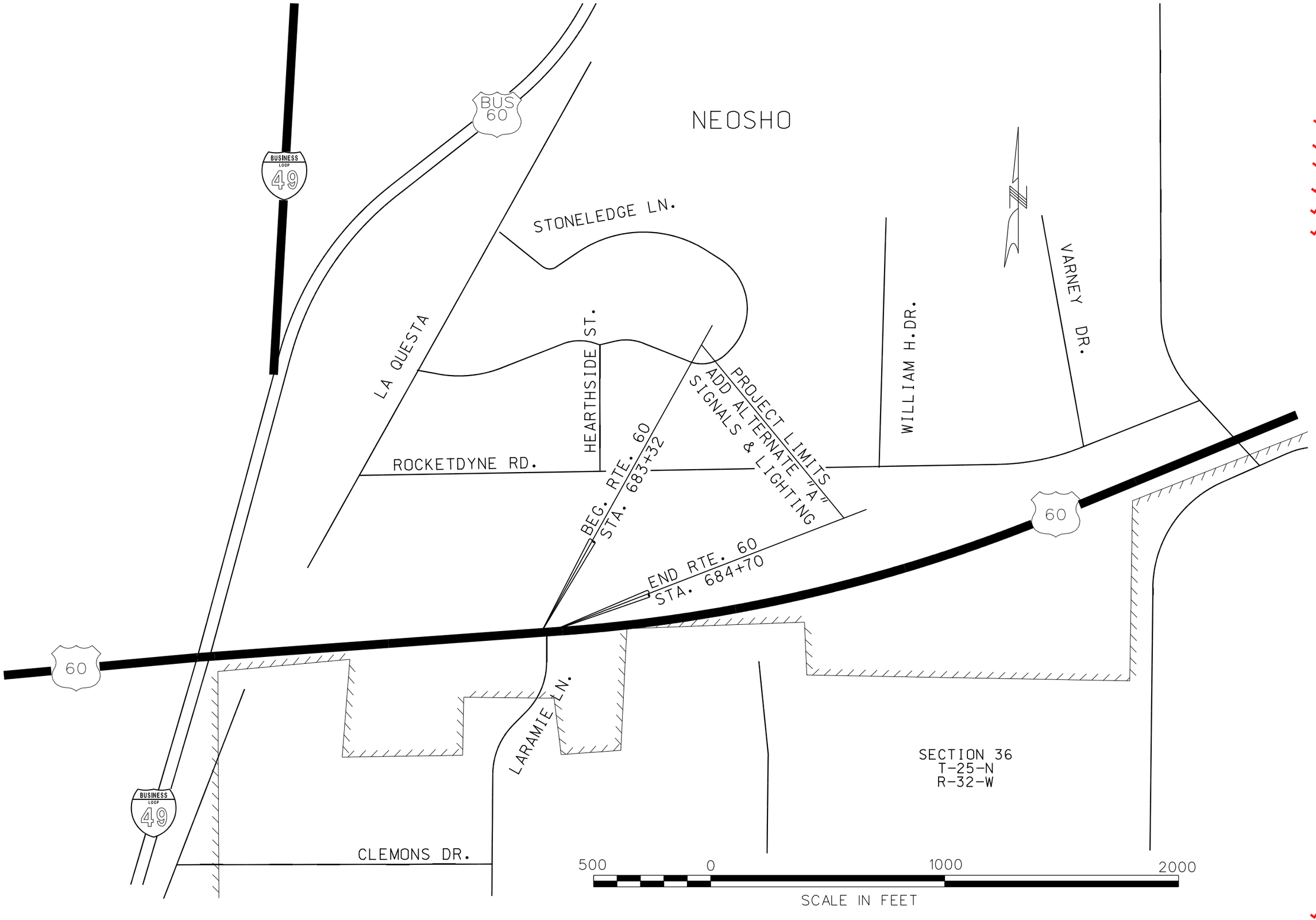
DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CULVERT SECTION SHEET
SHEET 1 OF 1

FINAL PLANS



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	12/21/2015
ROUTE	60
STATE	MO
DISTRICT	SW
SHEET NO.	A1
COUNTY	NEWTON
JOB NO.	J7P2179
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(40)
BRIDGE NO.	

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

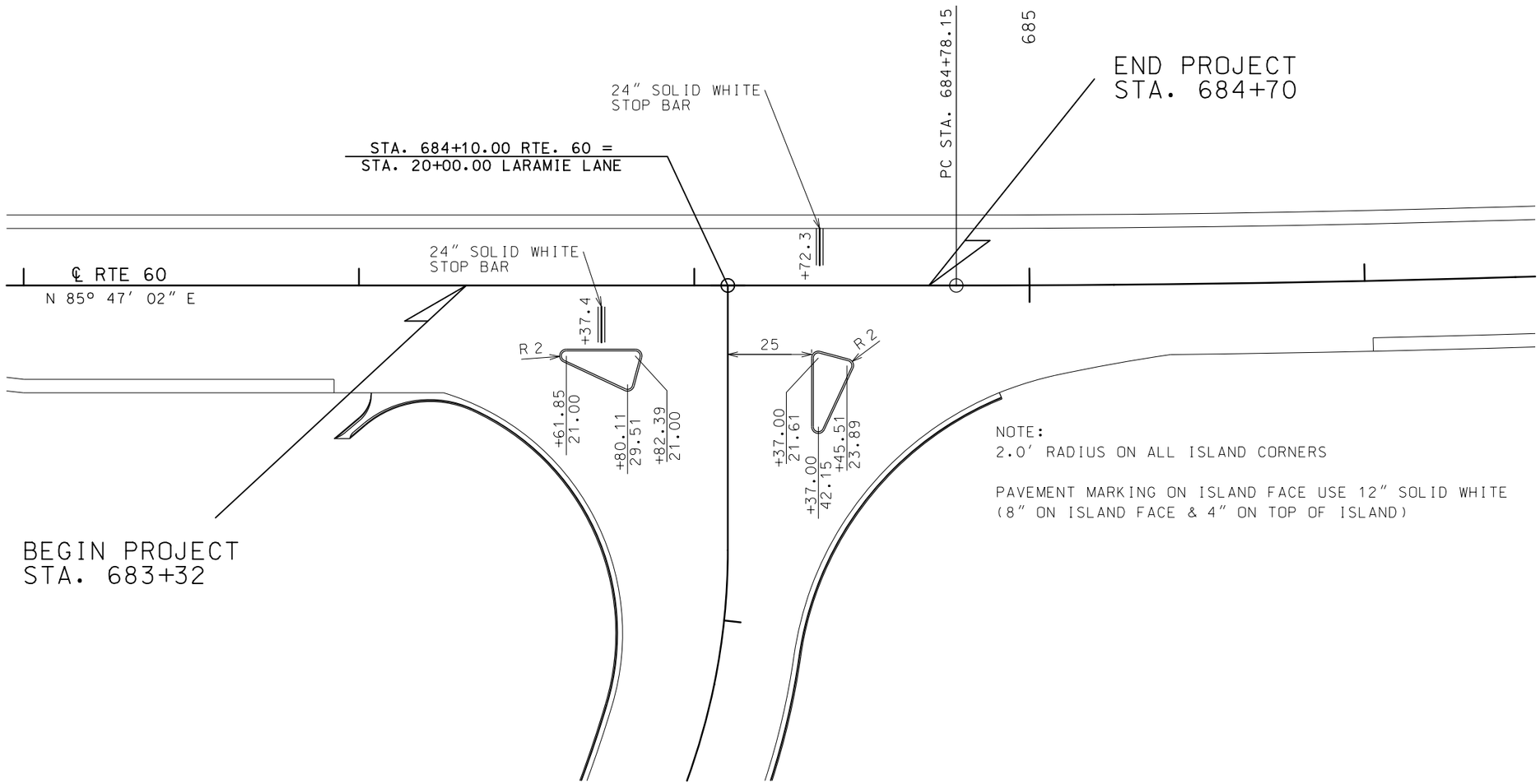
LOCATION MAP (ADD ALTERNATE A)

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

J:\DOCS\150123-G01_Neosho_TDD\As_Builds\J7P2179\ADD_ALT_A_001_LOCATION_MAP_J7P2179_ITITLESHEET.dgn 8:29:34 AM 12/21/2015



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/16/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	A4

COUNTY
NEWTON

JOB NO.
J7P2179

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(40)

BRIDGE NO.

DESCRIPTION | DATE

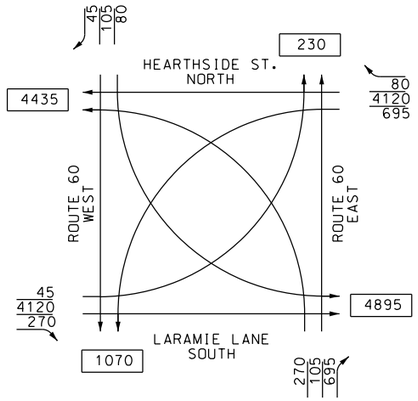
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PLAN SHEET
ISLAND DETAILS
ADD ALTERNATE "A"
SHEET 1 OF 1

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



TRAFFIC FLOW DIAGRAM
ESTIMATED - 2035
TRAFFIC VOLUME

FUTURE
(ADD ALT. "C")

685

STA. 684+10.00 ROUTE 60 =
STA. 20+00.00 LARAMIE LANE

1420' NEXT SIGNALS

2810' NEXT SIGNALS

30'

SIGN 1. D3-18

SIGN 2. D3-18

SIGN 3. D3-18

25'

R-Y-G

RL-YL-L

6'x6'
DETECTION ZONE

6'x30'
DETECTION ZONE

+1.10%
(45 MPH)

ROUTE 60
N 85° 47' 02.1" E

LARAMIE LN.
S 4° 12' 57.9" E

90°

+1.10%
(35 MPH)

1" CONDUIT TO EDGE OF ISLANDS
FOR FUTURE DETECTION ZONES

NO BUS STOPS
NO RAILROAD TRACKS
NO INTERCONNECTION
NO FIRE STATION
NO PARKING
NO SIGHT DISTANCE RESTRICTIONS

TYPE 2 POWER SUPPLY
WITH 120 VOLT LIGHTING CONTROLLER
STA. 683+38.83, 79.58' RT.

TYPE 1 (POLE)
OVERHEAD POWER SOURCE

LARAMIE LANE

SCALE
0 10 20 30

TRAFFIC SIGNALS LEGEND

CONTROLLER	VIDEO DETECTOR		CONDUIT PUSHED
POWER SOURCE	PREFORMED PULL BOX TYPE 1		CONDUIT TRENCHED
SIGNAL HEAD (STANDARD)	PREFORMED PULL BOX TYPE 2		TYPE C MAST ARM A BASE
			150 W LUMINAIRE

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/16/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	A5

COUNTY
NEWTON

JOB NO.
J7P2179

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(40)

BRIDGE NO.

NO.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNAL & LIGHTING SHEET
ADD ALTERNATE "A"
SHEET 1 OF 6

FINAL PLANS

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

EFFECTIVE: 07/01/2013

| POST NUMBER | PULL BOX NUMBER | LOCATION: APPROACH | LOCATION: STATION | LOCATION: OFFSET | BASE: A: 9 | A: 9.5 | A: 10 | A: 10.5 | A: 11 | A: 12 | F: 9 | F: 9.5 | F: 10 | F: 10.5 | F: 11 | F: 12 | C | CONCRETE** (CU. YDS.) | PULL BOX: PREFORMED CONCRETE: CLASS 1 | CLASS 2 | CLASS 3 | CLASS 5 | STANDARD | DOUBLE, TYPE A | DOUBLE, TYPE B | DRAIN TYPE* I | DRAIN TYPE* II: A | B | C | POST: TOP MOUNT POST: 8 FT. | 15 FT. | TYPE C & CL: ARM LENGTH | SIGNAL SPACING | | | | SIGN SPACING | | | | TYPE B & BL: ARM LENGTH | LEFT ARM E: SIGNAL SPACING | | | | SIGN SPACING | | | | RIGHT ARM K: SIGNAL SPACING | | | | SIGN SPACING | | | | INCLUDED ANGLE | LUMINAIRE BRACKET ARM*: 4 FT. | 6 FT. | 8 FT. | 10 FT. | 12 FT. | 15 FT. |
|---|---|---

EFFECTIVE: 07-01-2008

CONDUIT

FROM*	TO*	CTR. TO CTR. DIST.	LOOP **	TRENCHED			PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"	2"	3"	4"	2"	3"	4"	2"	3"	4"	
SOURCE	UPS	6		6												INCLUDED IN COST OF UPS
UPS	CA	8			16											
CA	PB1	4			14											2-3" CONDUIT
PB1	PB2	60			116											2-3" CONDUIT
PB2	PB3	54						52								
PB3	PB4	56			54											
PB2	PB5	65			63											
PB3	P1	4			7											
PB4	P2	4			7											
PB5	P3	4			7											
PB2	D81	13	12													
PB2	FD30	14	13													
PB4	D41	10	9													
PB4	D70	18	17													
PB5	D50	15	14													
PB5	FD21	6	5													
SUBTOTALS			70	6	284	0	0	52	0	0	0	0	0	0	0	
PAY TOTALS			0 ✓	6 ✓	284	0	0 ✓	52	0	0	0	0	0	0	0	

CABLE

FROM*	TO*	CTR. TO CTR. DIST.	POWER		CONTROL				LIGHTING		DETECTOR **		FIBER	REMARKS
			1c-#2	1c-#8	2c-#16	5c-#16	7c-#16	12c-#12	CONTROL 2c-#12	POLE & BRACKET 1c-#10	1c-#14 IN DUCT	2c-#14 LEAD IN	24 FIBER SINGLEMODE	
SOURCE	UPS	6	147											INCLUDED IN COST OF UPS
UPS	CA	8		72										3-1c#8
CA	H70	122					192							
CA	H41.42	122					195							INCLUDES JUMPER
CA	H50	178					258							
CA	H51	122					161							
CA	H81.82	133					208							INCLUDES JUMPER
CA	D81	64										81		
	D81	18									111			
CA	D41	174										203		
	D41	17									109			
CA	D70	174										203		
	D70	40									347			
CA	D50	129										152		
	D50	71									409			
SUBTOTALS			0	72	0	0	1014	0	0	0	976	639	0	
PAY TOTALS			0 ✓	70	0	0 ✓	1010	0	0	0	0	0	0	

* UPS = UNINTERRUPTIBLE POWER SOURCE
CA = CONTROLLER
PB = PULL BOX
P = POST
D = DETECTION ZONE

* H = SIGNAL HEAD
L = LUMINAIRE
FD = FUTURE DETECTION ZONE

** LOOP DETECTOR QUANTITIES ARE FOR INFORMATION ONLY AND NO DIRECT PAY.
SEE OPTIONAL TRAFFIC SIGNAL DETECTORS JSP.

US 60 & LARAMIE LANE

INTERSECTION

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/16/2015
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. A7
COUNTY NEWTON
JOB NO. J7P2179
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(40)
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

SIGNAL QUANTITY SHEET
ADD ALTERNATE "A"
SHEET 3 OF 6

D-37B | FINAL PLANS

REV.

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
APPROACH	STATION	OFFSET	DRAWING 902.15	DRAWING	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
							SIGNALS	LIGHTING				
US 60	683+38.83	79.58' RT	Type 2		15 Amps	15 Amps	50 Amps	50 Amps	1	15 Amps	Cl. 1 Ft. 30	EDE
			Type		15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH TYPE		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
									12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
US 60	683+32.59	74.27' RT.			1							1					1					

UNINTERRUPTIBLE POWER SUPPLY

LOCATION	QUANTITY (EACH)	REMARKS
US 60, STA. 683+38.83, 79.58' RT.	✓ 1	MOUNT ON PROPOSED TYPE 2 POWER SUPPLY

OPTIONAL TRAFFIC SIGNAL DETECTOR SYSTEM

✓ 1

DETECTOR SCHEDULE

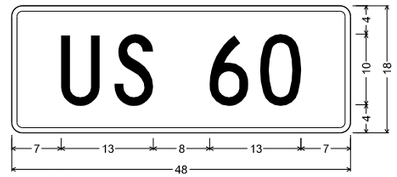
DETECTOR NUMBER	APPROACH	TYPE				
		PUSH BUTTON	INDUCTION LOOP (2)			VIDEO
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
41	US 60		1			
50	LARAMIE LANE		1			
70	US 60		1			
81	US 60		1			
TOTAL			4#			

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

(1) MoDOT "D" PLUG SHALL BE WIRED INTO ALL NEMA CONTROLLERS WITH 7C HARDWIRE INTERCONNECT.

(2) PAYMENT IS MADE FOR THE NUMBER OF 2-CHANNEL DETECTOR CARDS AS SHOWN BELOW THE ASSIGNMENT CHART.

FOR INFORMATION ONLY-
OPTIONAL TRAFFIC SIGNAL DETECTORS,
SEE SPECIAL PROVISIONS.



D3-1 SHR2L1;
1.500" Radius, 0.750" Border, White on Green;
[US 60] C;
Table of letter and object lefts.

U 7.000	S 14.625	6 28.000	0 35.250

SIGN NO.	2
STATION	684+34.98
ROADWAY	US 60

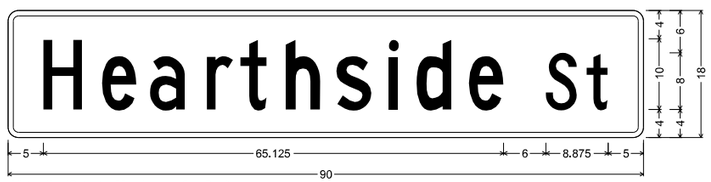
NEMA DETECTOR ASSIGNMENT

		CARD POSITION							
		1	2	3	4	5	6	7	8
CHANNEL	1		61	10		30	81		
	2		21	50		70	41		

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = 8 (2)

NEMA LOAD SWITCH ASSIGNMENTS

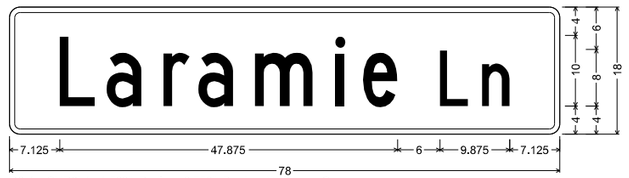
1	2	3	4	5	6	7	8	9	10	11	12
10	21/22	30	41/42	50	61/62	70	81/82				



D3-1 SHR2L1; 1.500" Radius, 0.750" Border, White on Green;
[Hearthside] C; [St] C;
Table of letter and object lefts.

H 5.000	e 13.250	a 20.125	r 28.125	t 32.875	h 39.375	s 46.500	i 53.875	d 57.875	e 65.250	S 76.125	t 81.875	

SIGN NO.	1
STATION	683+87.91
ROADWAY	US 60



D3-1 SHR2L1; 1.500" Radius, 0.750" Border, White on Green;
[Laramie] C; [Ln] C;
Table of letter and object lefts.

L 7.125	a 13.750	r 21.875	a 26.750	m 34.750	i 46.125	e 50.125	L 61.000	n 67.000	

SIGN NO.	3
STATION	684+38.09
ROADWAY	US 60

US 60 & LARAMIE LANE

INTERSECTION

D-37C

FINAL PLANS

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/16/2015

ROUTE 60 | STATE MO

DISTRICT SW | SHEET NO. A8

COUNTY NEWTON

JOB NO. J7P2179

CONTRACT ID. 150123-G01

PROJECT NO. FAF-60-1(40)

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNAL QUANTITY SHEET
ADD ALTERNATE "A"
SHEET 4 OF 6

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

EFFECTIVE 09/08/2009

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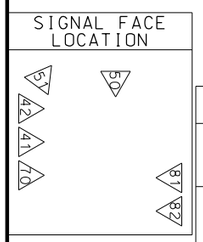
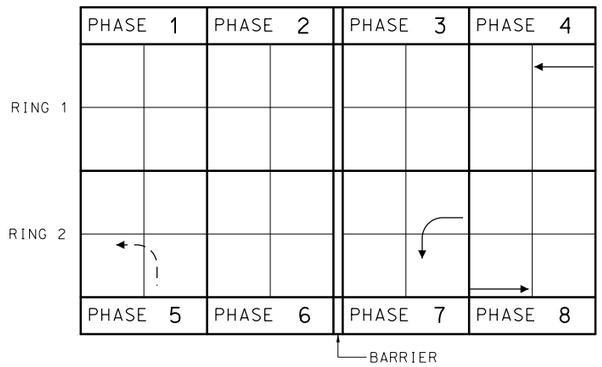
SIGNAL FACE LOCATION



TRAFFIC PHASING AND COLOR SEQUENCE – ACTUATED CONTROLLERS

	PHASE	PHASE	PHASE	PHASE 4	PHASE 5	PHASE	PHASE 7	PHASE 8	PED Φ OVERLAP	PED Φ OVERLAP	PED Φ OVERLAP	PED Φ OVERLAP	
FACE NUMBERS				41 42	50 51		70	81 82					FACE NUMBERS
SIGNAL INDICATIONS R				R R	RL RL		RL	R R					R
SIGNAL INDICATIONS Y				Y Y	YL YL		YL	Y Y					Y
SIGNAL INDICATIONS FYA													FYA
SIGNAL INDICATIONS G OR L				G G	L L		L	G G					G OR L
DETECTION ZONE				41 41	50 50		70	81 81					DETECTOR ASSIGNMENTS
DETECTOR ASSIGNMENTS (PEDS. ONLY)													
OVERLAP PARENT PHASES													



RING STRUCTURE

IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED
- FDW — FLASHING DON'T WALK
- R/W — RIGHT OF WAY INTERVAL
- DW — DON'T WALK
- YR† — YELLOW RIGHT ARROW
- RT. — GREEN RIGHT ARROW
- W — WALK
- LY –YL — YELLOW LEFT ARROW
- L — GREEN LEFT ARROW
- S — GREEN STRAIGHT AHEAD ARROW
- G — CIRCULAR GREEN
- Y — CIRCULAR YELLOW
- R — CIRCULAR RED
- Ø — TRAFFIC PHASE
- AO — ALL OTHERS
- FR — FLASHING RED
- FY — FLASHING CIRCULARE YELLOW
- FYA — FLASHING YELLOW ARROW
- FYL — FLASHING YELLOW LEFT ARROW
- FYR — FLASHING YELLOW RIGHT ARROW

FLASHING OPERATION	
LARAMIE LANE	FR
ROUTE 60	FR

CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION
INTERSECTION OF US 60
WITH LARAMIE LANE

DATE PREPARED 12/16/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	A10

COUNTY: NEWTON

JOB NO.: J7P2179

CONTRACT ID.: 150123-G01

PROJECT NO.: FAF-60-1(40)

BRIDGE NO.:

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNAL DETAIL SHEET
ADD ALTERNATE "A"
SHEET 6 OF 6

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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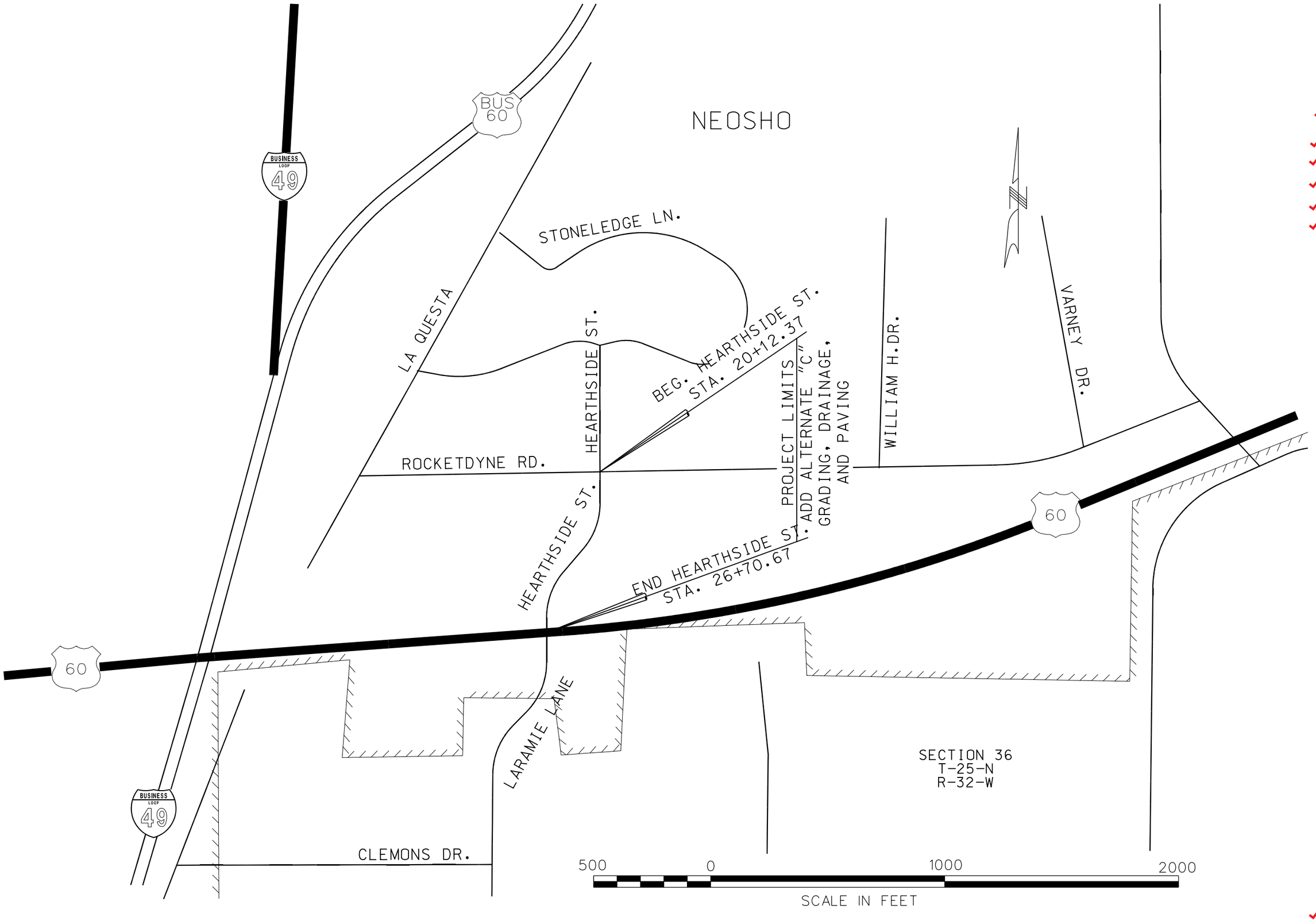


"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	12/21/2015
ROUTE	60
STATE	MO
DISTRICT	SW
SHEET NO.	C1
COUNTY	NEWTON
JOB NO.	J7P2179
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(40)
BRIDGE NO.	

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LOCATION MAP (ADD ALTERNATE C)

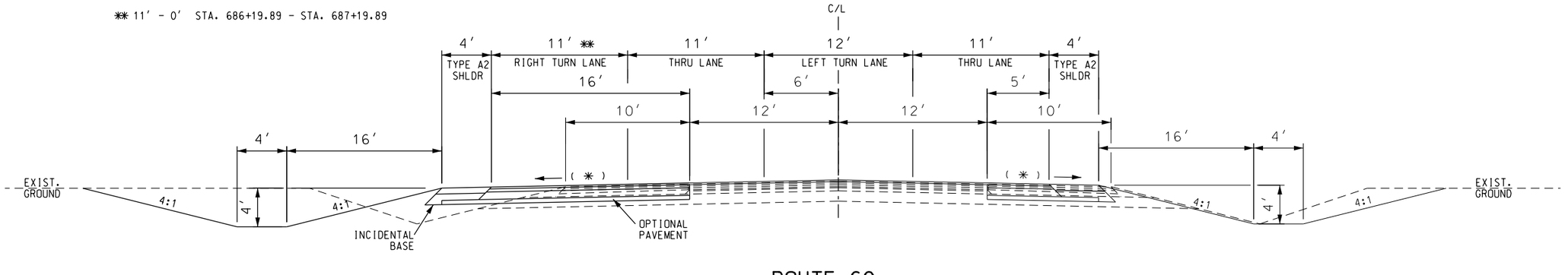
FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

J:\DOCS\150123-G01_Neosho_TDD\As_Builds\J7P2179\ADD_ALT_C_001_LOCATION_MAP_J7P2179_ITITLESHEET.dgn 8:31:29 AM 12/21/2015

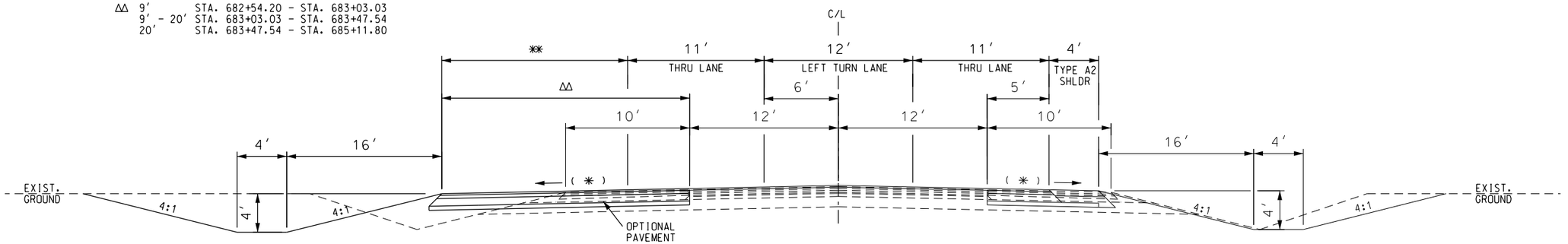
✳✳ 11′ - 0′ STA. 686+19.89 - STA. 687+19.89



ROUTE 60
STA. 685+11.80 TO STA. 687+19.89

✳✳ 4′ STA. 682+54.20 - STA. 683+03.03
4′ - 15′ STA. 683+03.03 - STA. 683+47.54
15′ STA. 683+47.54 - STA. 685+11.80

ΔΔ 9′ STA. 682+54.20 - STA. 683+03.03
9′ - 20′ STA. 683+03.03 - STA. 683+47.54
20′ STA. 683+47.54 - STA. 685+11.80



ROUTE 60
STA. 682+54.20 TO STA. 685+11.80

NOTE:

✳ MATCH EXISTING CROSS SLOPE

OPTIOINAL PAVEMENT DESIGN	
ASPHALT DESIGN	PCCP DESIGN
1 3/4" SP125C PG64-22 3" SP250C PG64-22 7 1/4" SP250E PG64-22 4" TYPE 5 AGGREGATE BASE	9" PCCP (15' JOINTS 1 1/4" DOWELS) 4" TYPE 5 AGGREGATE BASE

ADD ALTERNATE "C"
TYPICAL SHEET
SHEET 1 OF 2

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/16/2015
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. C2
COUNTY NEWTON
JOB NO. J7P2179
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(40)
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

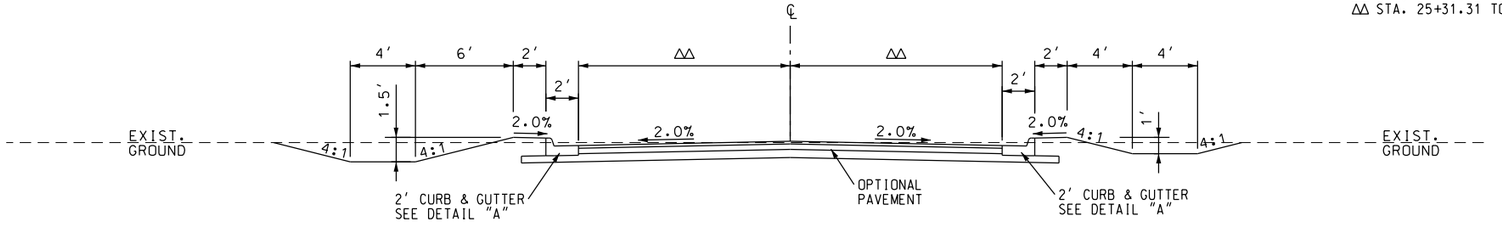
FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

j:\docs\150123-g01_neosho_tdd\as_builds\j7p2179\ADD_ALT_C_002_TS_01-02_J7P2179_I5.dgn 7:28:42 AM 12/16/2015

ΔΔ STA. 20+12.37 TO STA. 21+34.27 - 17'
ΔΔ STA. 21+34.27 TO STA. 22+34.68 - 17' TO 13'
ΔΔ STA. 22+34.68 TO STA. 24+30.92 - 13'
ΔΔ STA. 24+30.92 TO STA. 25+31.31 - 13' TO 17'
ΔΔ STA. 25+31.31 TO STA. 26+55.67 - 17'

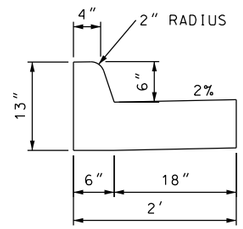


SEE X-SECTIONS FOR THE NORTHEAST QUADRANT FOR ADDITIONAL WORK ALONG THE LEFT SIDE
STA. 24+30.92 TO STA. 26+55.67

SEE X-SECTIONS FOR THE NORTHWEST QUADRANT FOR ADDITIONAL WORK ALONG THE RIGHT SIDE
STA. 25+84.10 TO STA. 26+55.67

HEARTHSIDE STREET
(NORTH OF ROUTE 60)
STA. 20+12.37 TO STA. 26+70.67

OPTIONAL PAVEMENT DESIGN	
ASPHALT DESIGN	PCCP
2" BP-1 PG64-22 4" BIT BASE PG64-22 6" TYPE 1 AGGREGATE BASE	6" PCCP (15' JOINTS 1 1/4" DOWELS) 6" TYPE 1 AGGREGATE BASE



DETAIL "A"
2' CURB & GUTTER

ADD ALTERNATE "C"
TYPICAL SHEET
SHEET 2 OF 2

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/21/2015
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. C2
COUNTY NEWTON
JOB NO. J7P2179
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(40)
BRIDGE NO.

REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FINAL PLANS

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.

NOTE:
STATIONING AND OFFSET INFORMATION TAKEN FROM HEARTHSIDE STREET UNLESS OTHERWISE NOTED

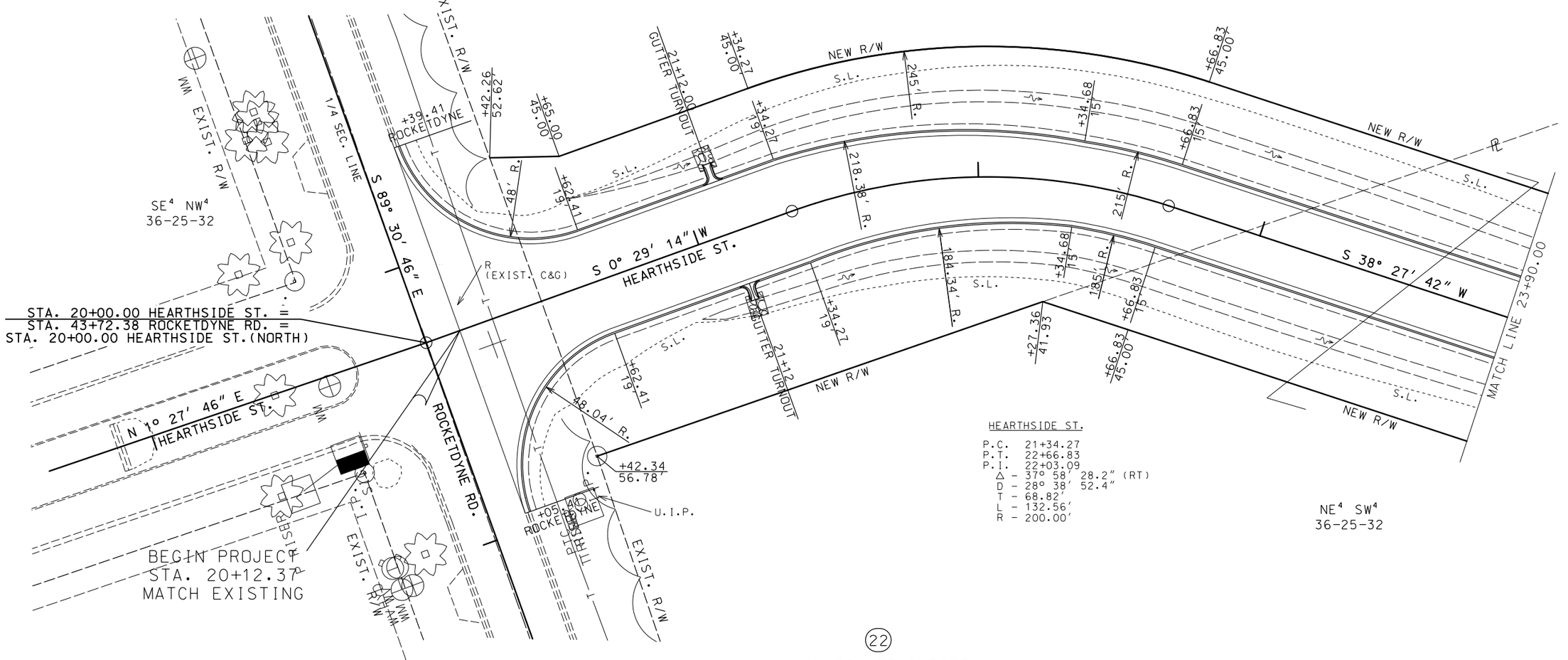
STATION AND OFFSET FOR CURB & GUTTER ALONG HEARTHSIDE STREET TAKEN FROM BACK OF CURB (B.O.C.) UNLESS OTHERWISE NOTED

NE^4 SW^4
36-25-32

(21)

DABBS, WILBUR D. & ANITA DAWN

0.562 ACRES NEW R/W
1.466 ACRES REMAINING



HEARTHSIDE ST.

P.C. 21+34.27
P.T. 22+66.83
P.I. 22+03.09
Δ - 37° 58' 28.2" (RT)
D - 28° 38' 52.4"
T - 68.82'
L - 132.56'
R - 200.00'

NE^4 SW^4
36-25-32

(22)

CHURCH OF CHRIST

0.789 ACRES NEW R/W
8.771 ACRES REMAINING

SCALE
0 20 40 60

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	12/18/2015
ROUTE	60
STATE	MO
DISTRICT	SW
SHEET NO.	C4
COUNTY	NEWTON
JOB NO.	J7P2179
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(40)
BRIDGE NO.	

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PLAN/PROFILE SHEET
HEARTHSIDE STREET
ADD ALTERNATE "C"
SHEET 1 OF 7

FINAL PLANS

REV.

NE^4 SW^4
36-25-32

HEARTHSIDE ST.

P.C. 24+76.75
P.T. 26+25.72
P.I. 25+54.88
Δ - 42° 40' 40.1" (LT)
D - 28° 38' 52.4"
T - 78.13'
L - 148.97'
R - 200.00'

NOTE:
STATIONING AND OFFSET INFORMATION TAKEN FROM HEARTHSIDE STREET UNLESS OTHERWISE NOTED

STATION AND OFFSET FOR CURB & GUTTER ALONG HEARTHSIDE STREET TAKEN FROM BACK OF CURB (B.O.C.) UNLESS OTHERWISE NOTED

685

EXIST. R/W

S.L.

PP

MATCH LINE 23+90.00

HEARTHSIDE ST.
S 38° 27' 42" W

+00.00
45.00

24+37.91
GUTTER TURNOUT

NEW R/W

+30.92
15'

+66.37
17.13'

+00.00
55.00'

25

NEW R/W

+73.48
118.43'

25+93.44
GUTTER TURNOUT

63' R.

48' R.

173' R.

+53.80
71.55'

+34.70
44.56'

+00.21
32.23'

217.75' R.

219' R.

90°

90°

S 4° 12' 58" E

S 4° 12' 58" E

LARAMIE LN.

+00.00
45.00

24+04
GUTTER TURNOUT

NEW R/W

+76.75
50.00'

+00.00
50.00'

+31.31
19.31'

+31.83
35.84

+53.80
63.18'

+84.10
19'

148' R.

58' R.

25+17.00
GUTTER TURNOUT

NEW R/W

RTE. 60

N 85° 47' 02" E

STA. 26+87.67 HEARTHSIDE ST.(NORTH)=
STA. 20+00.00 LARAMIE LN.(SOUTH)=
STA. 684+10.00 RTE. 60

END PROJECT
STA. 26+70.67

(22)
CHURCH OF CHRIST

0.789 ACRES NEW R/W
8.771 ACRES REMAINING

NE^4 SW^4
36-25-32

STA. 26+37.49
HEARTHSIDE ST.
14"X23"X140'
ELLIPTICAL PIPE
W/2-14"X23" TAPERED END SECTIONS

+11.38
93.76'

SIGN

SCALE
0 20 40 60

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/18/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	C5

COUNTY
NEWTON

JOB NO.
J7P2179

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(40)

BRIDGE NO.

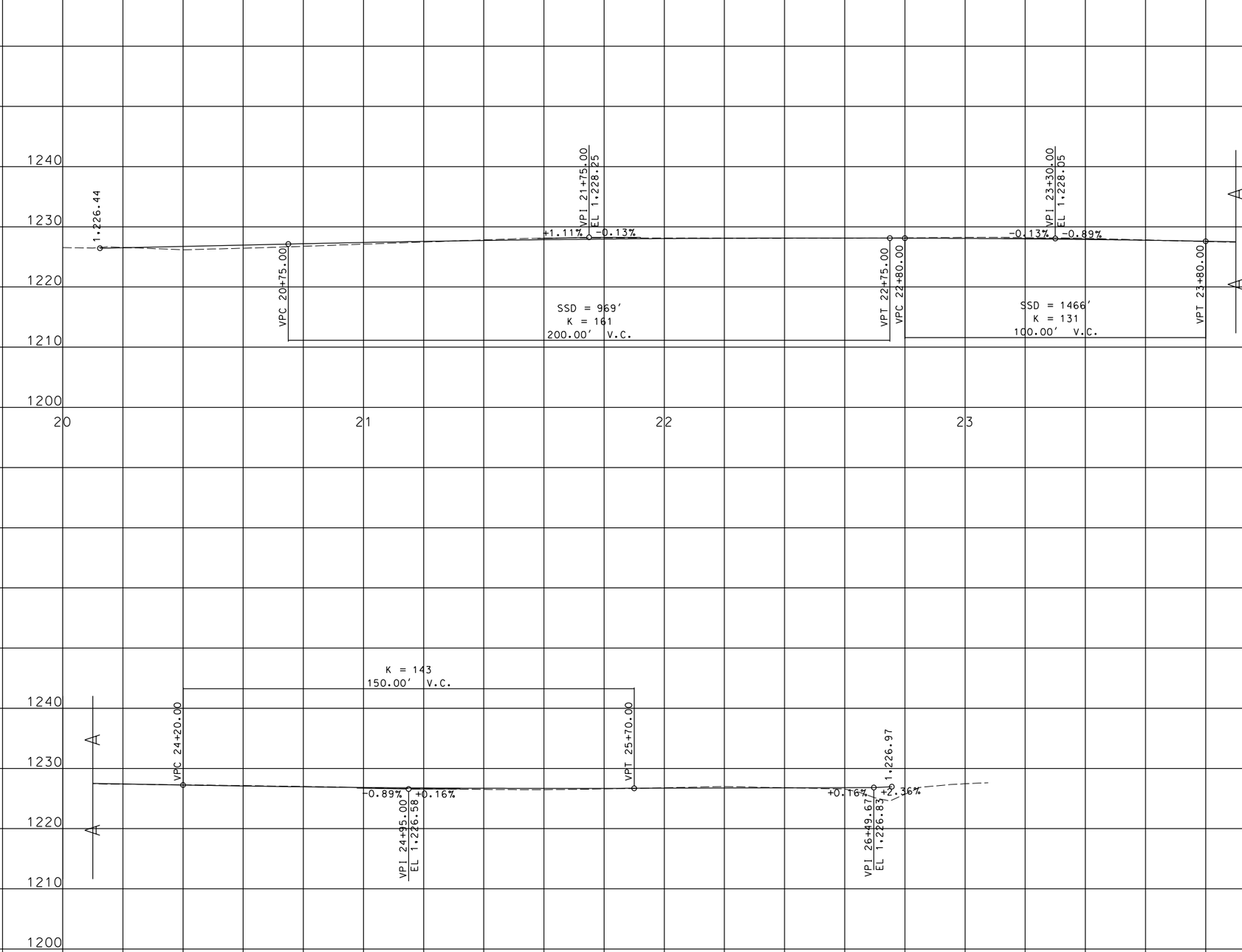
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE	REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PLAN SHEET
HEARTHSIDE STREET
ADD ALTERNATE "C"
SHEET 2 OF 7

FINAL PLANS



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/16/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	C6

COUNTY
NEWTON

JOB NO.
J7P2179

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(40)

BRIDGE NO.

NO.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PROFILE SHEET
HEARTHSIDE STREET
ADD ALTERNATE "C"
SHEET 3 OF 7

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

EXIST. R/W

NW^4 SW^4
36-25-32

NOTE:
STATIONING AND OFFSET INFORMATION
TAKEN FROM C/L ROUTE 60
UNLESS OTHERWISE NOTED

+69.63
82.67'

EXIST. R/W

680

+07.81 TIE TO
DITCH FROM
BASE RPOJECT

S.L.

℄ RTE 60

N 85° 47' 02" E

MATCH LINE 682+00.00

1/4 1/4 SEC. LINE

NW^4 SW^4
36-25-32

EXIST. R/W

SCALE
0 20 40 60

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/16/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	C7

COUNTY
NEWTON

JOB NO.
J7P2179

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(40)

BRIDGE NO.

NO.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PLAN SHEET
ROUTE 60
ADD ALTERNATE "C"
SHEET 4 OF 7

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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(22)

CHURCH OF CHRIST

0.789 ACRES NEW R/W
8.771 ACRES REMAINING

NOTE:
STATIONING AND OFFSET INFORMATION
TAKEN FROM C/L ROUTE 60
UNLESS OTHERWISE NOTED

NE⁴ SW⁴
36-25-32

ROUTE 60

P.C. 684+78.15
P.T. 700+67.61
P.I. 692+78.33
Δ - 16° 22' 41.0" (LT)
D - 1° 01' 49.5"
T - 800.19'
L - 1589.05'
R - 5560.45'

25 STA. 26+37.49
HEARTHSIDE ST.
14"X23"X140' ELLIPTICAL P.IPE
w/2-14"X23" TAPERED END SECTIONS

NEW R/W
NEW R/W
NEW R/W
EXIST. R/W
EXIST. R/W
S.L.
S.L.
S.L.
S.L.
I.P.
HEARTHSIDE STREET
+17.00
83'
+69.63
82.67'
+32.00
82.75'
685
+54.20
17' - 21'
(E.O.P.)
+03.03
21' (E.O.P.)
30'
90°
+43.78
30.69'
(E.O.P.)
+47.54
32'
(E.O.P.)
17'
+80.88
32' (E.O.P.)
+11.80
28' - 32'
(E.O.P.)
+19.89
28'
+19.89
17'
17'
℄ RTE 60
N 85° 47' 02" E
S 4° 12' 58" E
S 4° 12' 58" E
90°
℄ RTE 60
MATCH LINE 682+00.00
MATCH LINE 687+60.00

STA. 26+87.67 HEARTHSIDE ST.(NORTH)=
STA. 20+00.00 LARAMIE LN.(SOUTH)=
STA. 684+10.00 RTE. 60

LARAMIE LANE
S.L.
NE⁴ SW⁴
36-25-32
WV
EXIST. R/W
PP
PP
EXIST. R/W

SCALE
0 20 40 60

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/18/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	C8

COUNTY
NEWTON

JOB NO.
J7P2179

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(40)

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PLAN SHEET
ROUTE 60
ADD ALTERNATE "C"
SHEET 5 OF 7

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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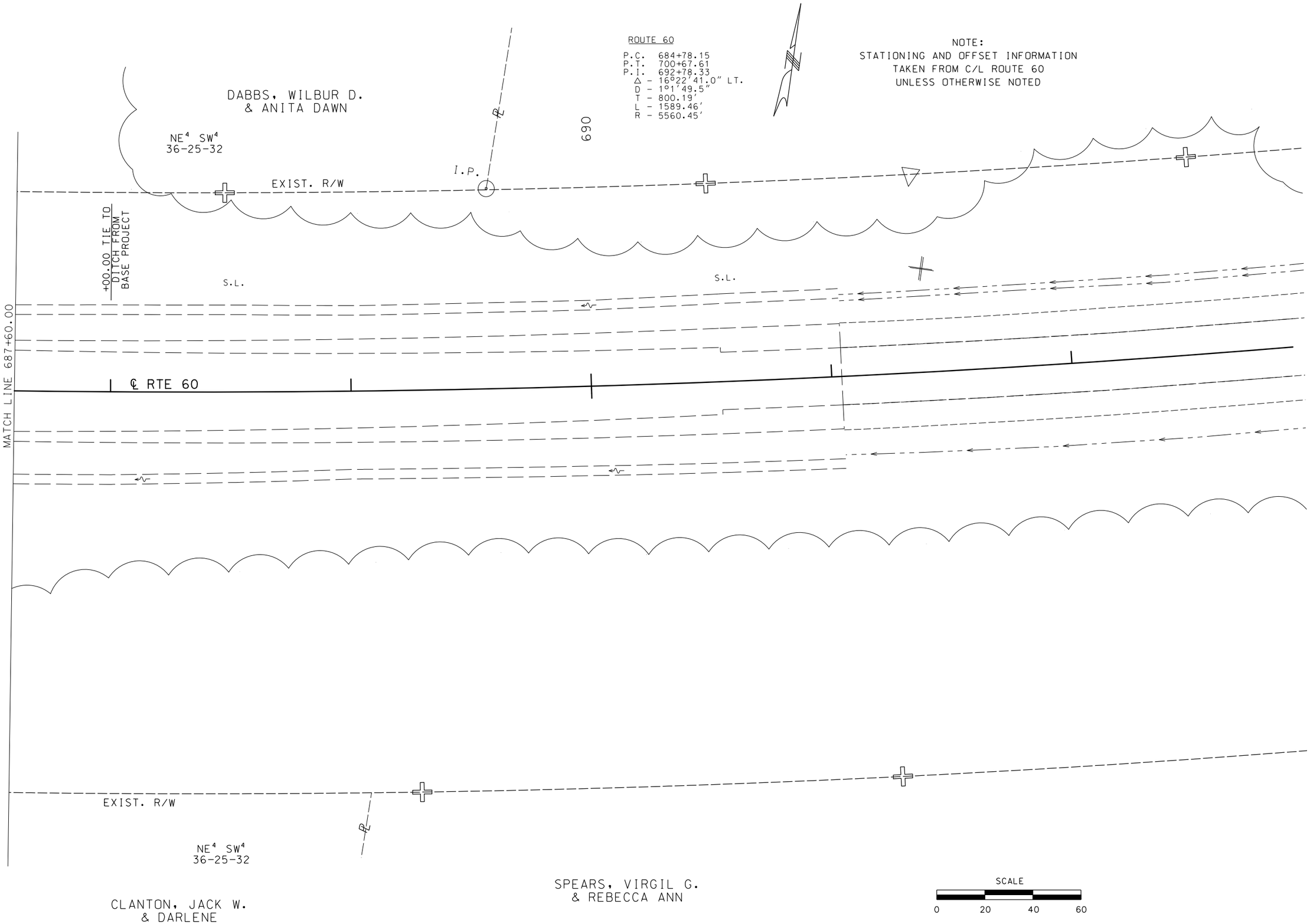


"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/16/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	C9

COUNTY
NEWTON

JOB NO.
J7P2179

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(40)

BRIDGE NO.

DESCRIPTION

DATE

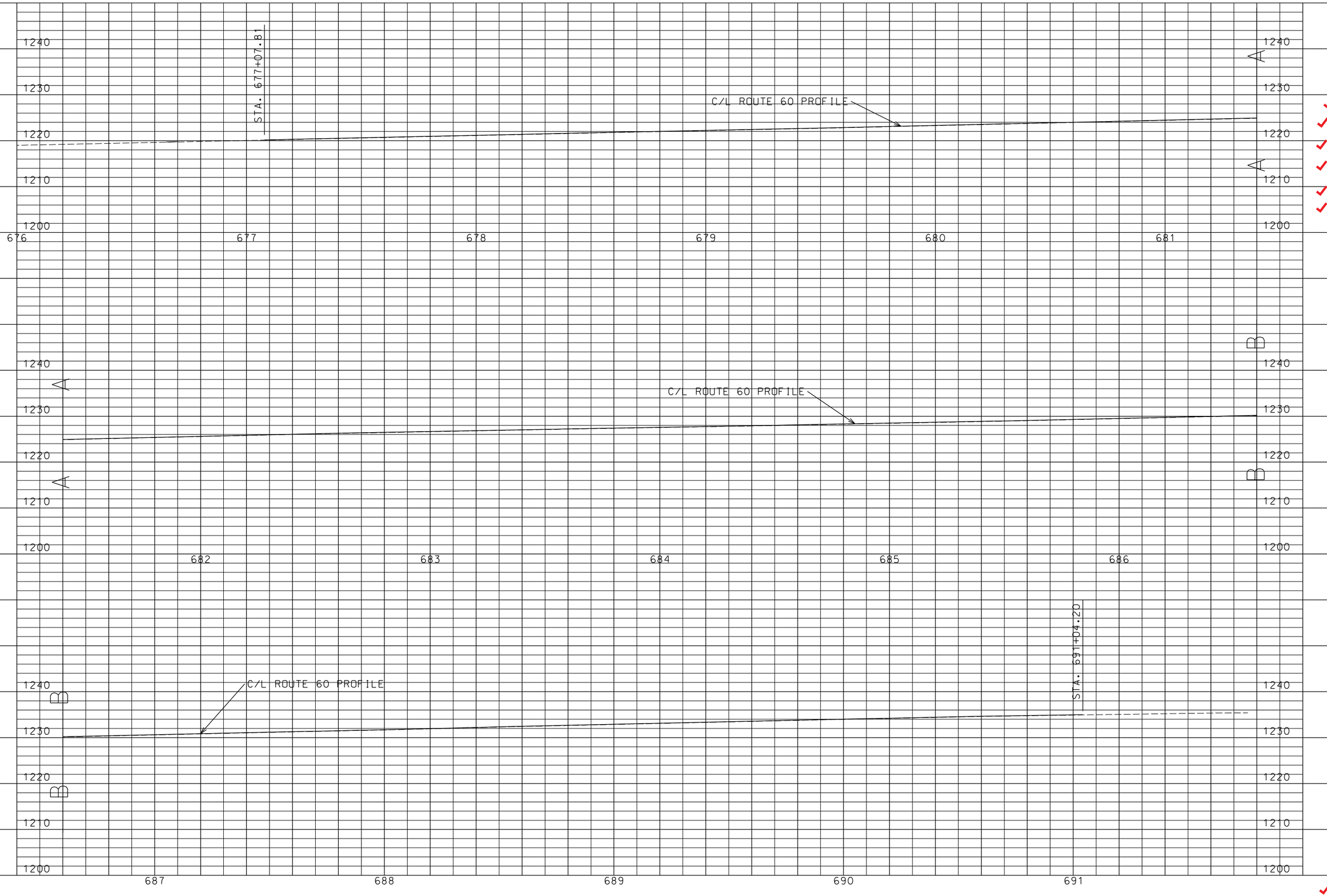
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PLAN SHEET
ROUTE 60
ADD ALTERNATE "C"
SHEET 6 OF 7

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/16/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	C10

COUNTY
NEWTON

JOB NO.
J7P2179

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(40)

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

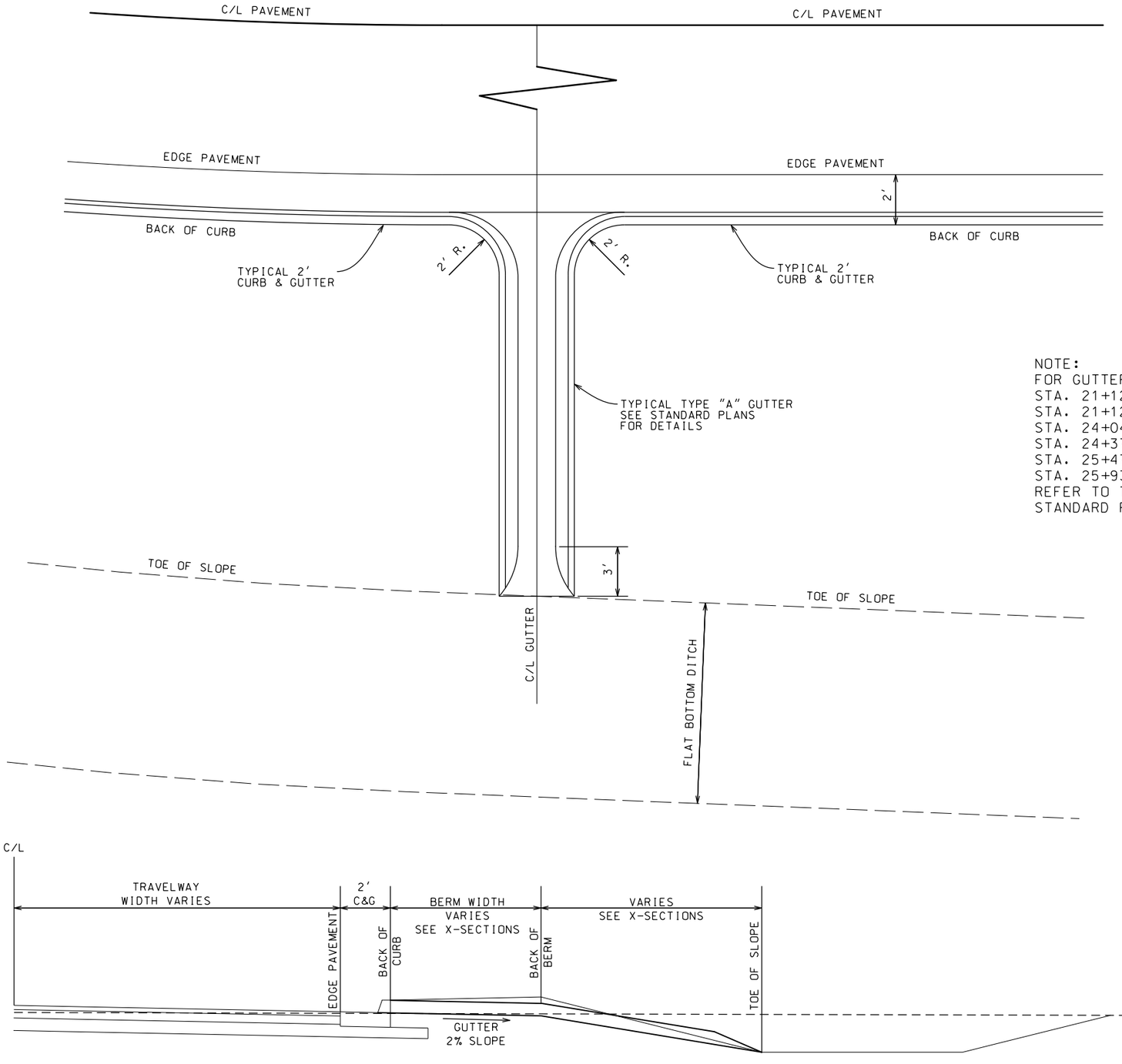
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PROFILE SHEET
ROUTE 60
ADD ALTERNATE "C")
SHEET 7 OF 7

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



NOTE:
FOR GUTTER TURNOUTS AT
STA. 21+12.00 RT. HEARTHSIDE ST.
STA. 21+12.00 LT. HEARTHSIDE ST.
STA. 24+04.00 RT. HEARTHSIDE ST.
STA. 24+37.91 LT. HEARTHSIDE ST.
STA. 25+47.00 RT. HEARTHSIDE ST.
STA. 25+93.44 LT. HEARTHSIDE ST.
REFER TO THIS SHEET AND THE STANDARD PLANS FOR DETAILS

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED: 12/16/2015
ROUTE: 60 | STATE: MO
DISTRICT: SW | SHEET NO.: C11
COUNTY: NEWTON
JOB NO.: J7P2179
CONTRACT ID.: 150123-G01
PROJECT NO.: FAF-60-1(40)
BRIDGE NO.:

DESCRIPTION | DATE

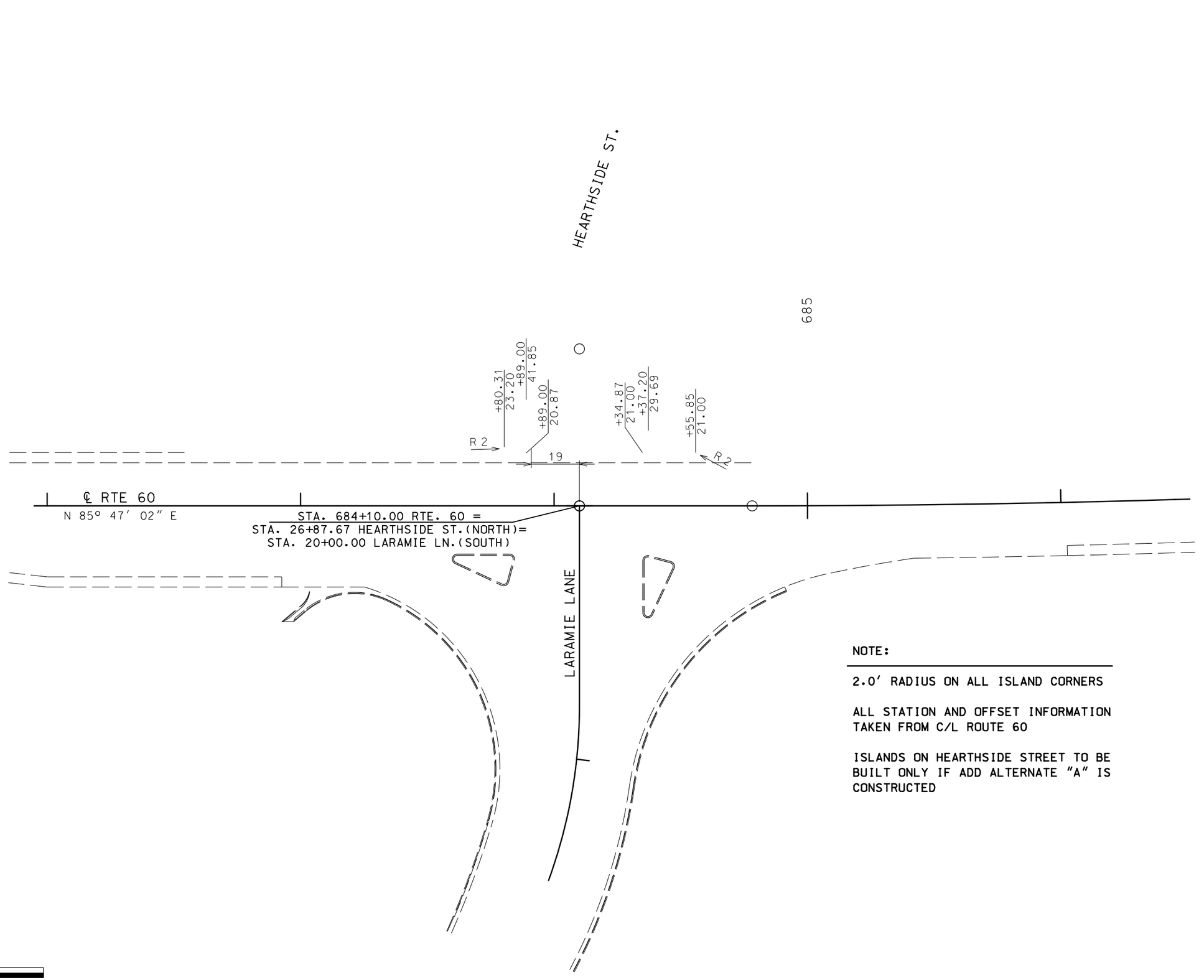
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SPECIAL SHEET
GUTTER TURNOUT DETAILS
ADD ALTERNATE "C"
SHEET 1 OF 3

FINAL PLANS

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



NOTE:

2.0' RADIUS ON ALL ISLAND CORNERS

ALL STATION AND OFFSET INFORMATION TAKEN FROM C/L ROUTE 60

ISLANDS ON HEARTHSIDE STREET TO BE BUILT ONLY IF ADD ALTERNATE "A" IS CONSTRUCTED

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/16/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	C12

COUNTY
NEWTON

JOB NO.
J7P2179

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(40)

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

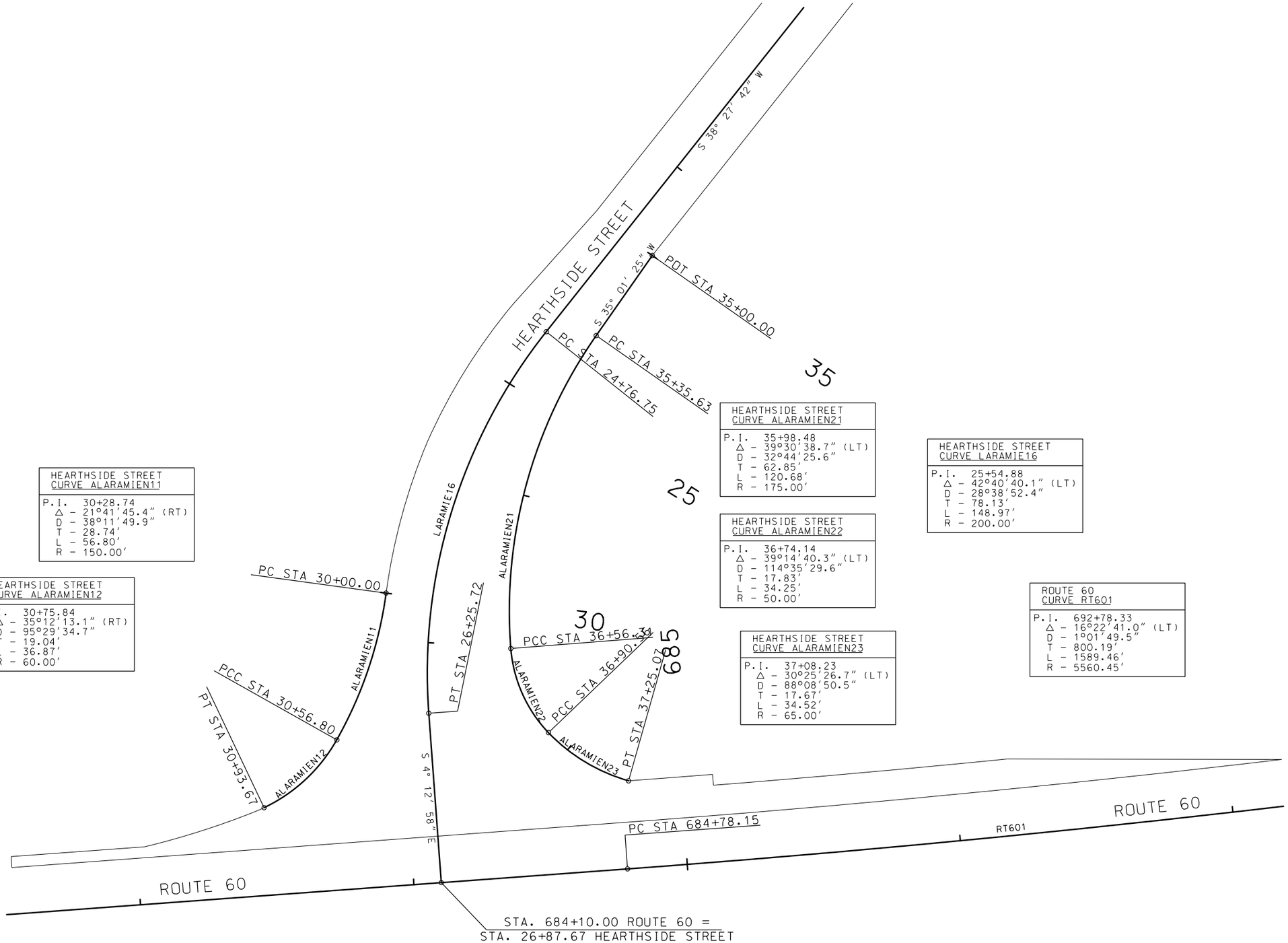
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SPECIAL SHEET
ISLAND DETAILS
ADD ALTERNATE "C"
SHEET 2 OF 3

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



HEARTHSIDE STREET
CURVE ALARAMIEN11

P.I. 30+28.74
Δ - 21°41'45.4" (RT)
D - 38°11'49.9"
T - 28.74'
L - 56.80'
R - 150.00'

HEARTHSIDE STREET
CURVE ALARAMIEN12

P.I. 30+75.84
Δ - 35°12'13.1" (RT)
D - 95°29'34.7"
T - 19.04'
L - 36.87'
R - 60.00'

HEARTHSIDE STREET
CURVE ALARAMIEN21

P.I. 35+98.48
Δ - 39°30'38.7" (LT)
D - 32°44'25.6"
T - 62.85'
L - 120.68'
R - 175.00'

HEARTHSIDE STREET
CURVE ALARAMIEN22

P.I. 36+74.14
Δ - 39°14'40.3" (LT)
D - 114°35'29.6"
T - 17.83'
L - 34.25'
R - 50.00'

HEARTHSIDE STREET
CURVE ALARAMIEN23

P.I. 37+08.23
Δ - 30°25'26.7" (LT)
D - 88°08'50.5"
T - 17.67'
L - 34.52'
R - 65.00'

HEARTHSIDE STREET
CURVE LARAMIE16

P.I. 25+54.88
Δ - 42°40'40.1" (LT)
D - 28°38'52.4"
T - 78.13'
L - 148.97'
R - 200.00'

ROUTE 60
CURVE RT601

P.I. 692+78.33
Δ - 16°22'41.0" (LT)
D - 1°01'49.5"
T - 800.19'
L - 1589.46'
R - 5560.45'

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/21/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	C13

COUNTY
NEWTON

JOB NO.
J7P2179

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(40)

BRIDGE NO.

DESCRIPTION	DATE

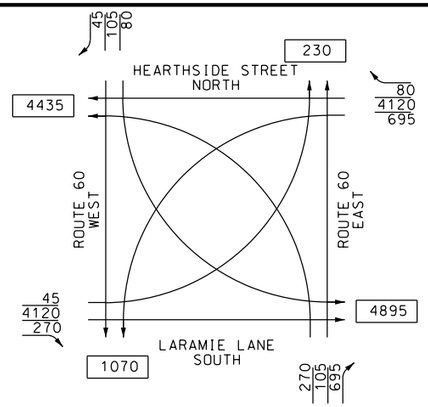
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SPECIAL SHEET
ALIGNMENT DETAILS
ADD ALTERNATE "C"
SHEET 3 OF 3

FINAL PLANS

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



TRAFFIC FLOW DIAGRAM
ESTIMATED - 2035
TRAFFIC VOLUME

685

1420' NEXT SIGNALS

STA. 684+10.00 RTE. 60 =
STA. 26+87.67 N. HEARTHSIDE ST.=
STA. 20+00.00 S. LARAMIE LN.

2810' NEXT SIGNALS

HEARTHSIDE STREET

DETECTION ZONE

SIGN 3. R10-27a

RELOC. TO

RL-YL-L (EXIST.)
RL-YL-FYL (NEW)

R Y G

+1.10%
(45 MPH)

℄ RTE. 60
N 85° 47' 02.1" E

RL-YL-L

RL-YL-FYL
RELOC. SIGNAL 51
& CHANGE L TO FYL

SIGN 2. R10-27a

SIGN 1. D3-18 30'

+1.10%
(35 MPH)

NO BUS STOPS
NO RAILROAD TRACKS
NO INTERCONNECTION
NO FIRE STATION
NO PARKING
NO SIGHT DISTANCE RESTRICTIONS

1" EXIST. CONDUIT TO EDGE OF ISLANDS
FOR DETECTION ZONES

LARAMIE LN.
S 4° 12' 57.9" E

EXIST. TYPE 2 POWER SUPPLY
WITH 120 VOLT LIGHTING CONTROLLER
STA. 683+38.83, 79.58' RT.

EXIST. TYPE 1 (POLE)
OVERHEAD POWER SOURCE

SCALE
0 10 20 30

TRAFFIC SIGNALS LEGEND

CONTROLLER	VIDEO DETECTOR		CONDUIT PUSHED
POWER SOURCE	PREFORMED PULL BOX TYPE 1		CONDUIT TRENCHED
SIGNAL HEAD (STANDARD)	PREFORMED PULL BOX TYPE 2		TYPE C MAST ARM A BASE
			150 W LUMINAIRE

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/16/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	C18

COUNTY: NEWTON
JOB NO.: J7P2179
CONTRACT ID.: 150123-G01
PROJECT NO.: FAF-60-1(40)
BRIDGE NO.:

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNAL & LIGHTING SHEET
HEARTHSIDE ST./LARAMIE LN.
WITH ROUTE 60
ADD ALTERNATE "C"
SHEET 1 OF 6

FINAL PLANS

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

j:\docs\150123-g01_neosho_tdd\as_builds\j7p2179\ADD_ALT_C_018_SG_01_J7P2179_l10.dgn 8:18:50 AM 12/16/2015

EFFECTIVE: 07/01/2013

LOCATION / BASE / PULL BOX / POST

| POST NUMBER | PULL BOX NUMBER | APPROACH | STATION | OFFSET | BASE A (9 / 9.5 / 10 / 10.5 / 11 / 12) | BASE F (9 / 9.5 / 10 / 10.5 / 11 / 12) | BASE C | CONCRETE** (CU. YDS.) | PULL BOX PREFORMED CONCRETE CLASS 1 | CLASS 2 | CLASS 3 | CLASS 5 | STANDARD | DOUBLE, TYPE A | DOUBLE, TYPE B | DRAIN TYPE* I | DRAIN TYPE* II A | II B | II C | TOP MOUNT POST 8 FT. | TOP MOUNT POST 15 FT. | TYPE C & CL ARM LENGTH A | A | A | A | TYPE C & CL SIGNAL SPACING B | C | D | D' | TYPE C & CL SIGN SPACING B | C | D | D' | TYPE B & BL ARM LENGTH E | K | E | K | E | K | LEFT ARM E SIGNAL SPACING F | G | H | H' | LEFT ARM E SIGN SPACING F | G | H | H' | RIGHT ARM K SIGNAL SPACING L | M | N | N' | RIGHT ARM K SIGN SPACING L | M | N | N' | INCLUDED ANGLE | LUMINAIRE BRACKET ARM* 4 FT. | 6 FT. | 8 FT. | 10 FT. | 12 FT. | 15 FT. |
|---|---|---

CONDUIT

FROM*	TO*	CTR. TO CTR. DIST.	LOOP **	TRENCHED			PUSHED			MEDIAN			ON STRUCTURE			REMARKS
			1"	2"	3"	4"	2"	3"	4"	2"	3"	4"	2"	3"	4"	
PB2	P8	5			8											
PB3	D10	10	9													
PB3	D61	9	8													
SUBTOTALS			17	0	8	0	0	0	0	0	0	0	0	0		
PAY TOTALS			0	0	8	0	0	0	0	0	0	0	0	0		

CABLE

FROM*	TO*	CTR. TO CTR. DIST.	POWER		CONTROL				LIGHTING		DETECTOR **		FIBER	REMARKS
			1c-#2	1c-#8	2c-#16	5c-#16	7c-#16	12c-#12	CONTROL 2c-#12	POLE & BRACKET 1c-#10	1c-#14 IN DUCT	2c-#14 LEAD IN	24 FIBER SINGLEMODE	
CA	H10	69					139							
CA	H61.62	69					144							
CA	H30	133					204							
CA	H21.22	178					259							
CA	D21	129										152		
	D21	13									293			
CA	D30	64										81		
	D30	64									203			
CA	D61	118										141		
	D61	13									101			
CA	D10	118										141		
	D10	59									193			
SUBTOTALS			0	0	0	0	746	0	0	0	790	515	0	
PAY TOTALS			0	0	0	0	750	0	0	0	0	0	0	

* UPS = UNINTERRUPTIBLE POWER SOURCE
CA = CONTROLLER
PB = PULL BOX
P = POST
D = DETECTION ZONE

* H = SIGNAL HEAD
L = LUMINAIRE

** LOOP DETECTOR QUANTITIES ARE FOR INFORMATION ONLY AND NO DIRECT PAY.
SEE OPTIONAL TRAFFIC SIGNAL DETECTORS JSP.

US 60 & HEARTHSIDE STREET

INTERSECTION

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/16/2015
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. C20
COUNTY NEWTON
JOB NO. J7P2179
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(40)
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNAL QUANTITY SHEET
ADD ALTERNATE "C"
SHEET 3 OF 6

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

D-37B | FINAL PLANS | REV.

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING*				LIGHTING CONTROL * (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
APPROACH	STATION	OFFSET	DRAWING 902.15	DRAWING	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	MAIN BREAKER		120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
							SIGNALS	LIGHTING				
USE EXIST. P.S.	683+38.83	79.58' RT	Type		Amps	Amps	Amps	Amps		Amps	Cl. Ft.	
			Type		15 Amps	Amps	Amps	Amps		Amps	Cl. Ft.	

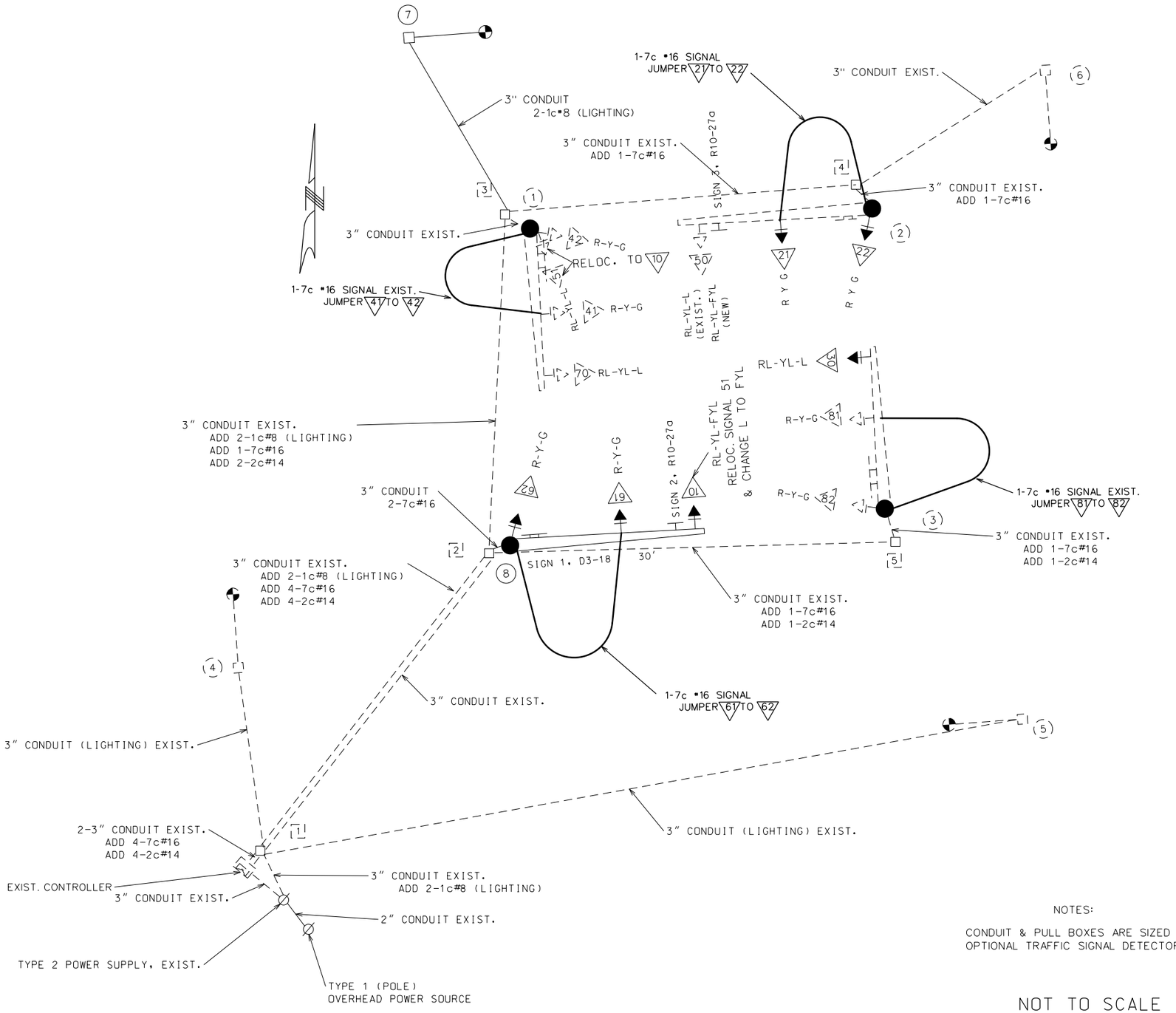
CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF* SWITCH		COORDINATION INTERFACE *						TIME * CLOCK	NEMA CABINET TYPE *			170 CABINET TYPE *		170 SOFTWARE *	
							TYPE		12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		FIBER								
APPROACH	STATION	OFFSET	NEMA	170	NEMA	170	I	II	MASTER	LOCAL		NEMA	170			E	EV	DOUBLE	332	336S	BITRAN	WAPITI
USE EXIST. CONTROLLER	683+32.59	74.27' RT.																				

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		PUSH BUTTON	INDUCTION LOOP (2)			VIDEO
			STANDARD	DELAY/ EXTEND *	CALL UNIT *	
10	HEARTHSIDE STREET		1			
30	US 60		1			
21	LARAMIE LANE		1			
61	US 60		1			

WIRING DIAGRAM



NOTES:

CONDUIT & PULL BOXES ARE SIZED FOR OPTIONAL TRAFFIC SIGNAL DETECTORS.

NOT TO SCALE

LEGEND

- 3" CONDUIT CONTAINING CABLE WITH SIZE
- CABLE
- X-Xc MULTI-CONDUCTOR CABLE #12 AWG (UNLESS OTHERWISE INDICATED)
- LIC #14 AWG DETECTOR LEAD-IN CABLE (2C TWISTED SHIELDED)
- PULL BOX WITH NUMBER
- POST WITH NUMBER
- POST WITH MAST ARM
- POST WITH MAST ARM AND LUMINAIRE
- DETECTOR WITH NUMBER
- SIGNAL HEAD WITH NUMBER
- SIGNAL CONTROLLER
- POWER SUPPLY
- LIGHTING CONTROLLER

US 60 & HEARTHSIDE STREET

INTERSECTION

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/16/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	C22

COUNTY: NEWTON

JOB NO.: J7P2179

CONTRACT ID.: 150123-G01

PROJECT NO.: FAF-60-1(40)

BRIDGE NO.:

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNAL DETAIL SHEET
ADD ALTERNATE "C"
SHEET 5 OF 6

D-37D FINAL PLANS

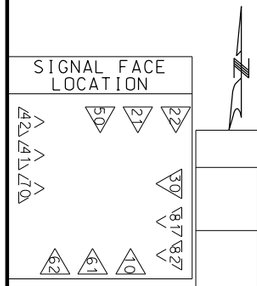
REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

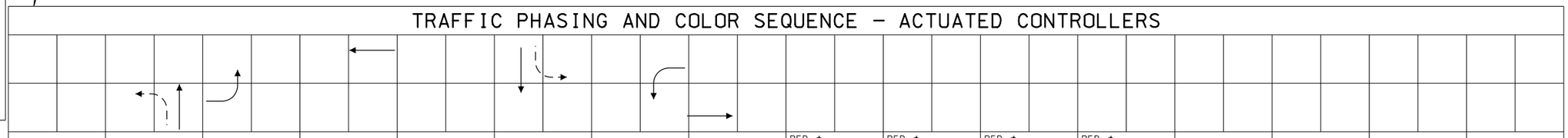
EFFECTIVE 09/08/2009

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

SIGNAL FACE LOCATION



TRAFFIC PHASING AND COLOR SEQUENCE – ACTUATED CONTROLLERS

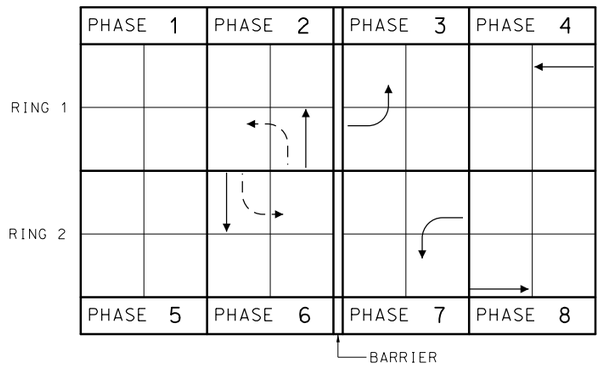


	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE	PHASE 6	PHASE 7	PHASE 8	PED Φ OVERLAP	PED Φ OVERLAP	PED Φ OVERLAP	PED Φ OVERLAP
FACE NUMBERS		21 22 50	30	41 42		61 62 10	70	81 82				
SIGNAL INDICATIONS R		R R RL	RL	R R		R R RL	RL	R R				
SIGNAL INDICATIONS Y		Y Y YL	YL	Y Y		Y Y YL	YL	Y Y				
SIGNAL INDICATIONS FYA		FYA				FYA						
SIGNAL INDICATIONS G OR L		G G	L	G G		G G	L	G G				
DETECTION ZONE		21 21 50	30	41 41		61 61 10	70	81 81				
DETECTOR ASSIGNMENTS (PEDS. ONLY)												
OVERLAP PARENT PHASES												

FACE NUMBERS

SIGNAL INDICATIONS (R, Y, FYA, G OR L)

DETECTOR ASSIGNMENTS



RING STRUCTURE

IF CALLED, ALL NON-CONFLICTING PHASES SHALL COMBINE AND TIME CONCURRENTLY. TIME TO BE DETERMINED BY THE ENGINEER AT SIGNAL TURN ON AND SET IN THE CONTROLLER BY THE CONTRACTOR.

LEGEND

- ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED ACTUATED VEHICULAR MOVEMENT
- NON-ACTUATED VEHICULAR MOVEMENT
- PARTIALLY RESTRICTED NON-ACTUATED VEHICULAR MOVEMENT
- ACTUATED PEDESTRIAN MOVEMENT
- NON-ACTUATED PEDESTRIAN MOVEMENT
- VEHICLE STOPPED
- FDW — FLASHING DON'T WALK
- R/W — RIGHT OF WAY INTERVAL
- DW — DON'T WALK
- YR† — YELLOW RIGHT ARROW
- RT. — GREEN RIGHT ARROW
- W — WALK
- LY –YL — YELLOW LEFT ARROW
- L — GREEN LEFT ARROW
- S — GREEN STRAIGHT AHEAD ARROW
- G — CIRCULAR GREEN
- Y — CIRCULAR YELLOW
- R — CIRCULAR RED
- Ø — TRAFFIC PHASE
- AO — ALL OTHERS
- FR — FLASHING RED
- FY — FLASHING CIRCULARE YELLOW
- FYA — FLASHING YELLOW ARROW
- FYL — FLASHING YELLOW LEFT ARROW
- FYR — FLASHING YELLOW RIGHT ARROW

FLASHING OPERATION	
HEARTHSIDE STREET	FR
ROUTE 60	FR
CONTROLLER TYPE	NEMA

TRAFFIC SIGNAL CONTROL OPERATION
INTERSECTION OF US 60
WITH HEARTHSIDE STREET

ADD ALTERNATE #3
SIGNAL SHEET 6 OF 6
US 60 & LARAMIE LN. NORTH

DATE PREPARED 12/16/2015
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. C23
COUNTY NEWTON
JOB NO. J7P2179
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(40)
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNAL DETAIL SHEET
ADD ALTERNATE "C"
SHEET 6 OF 6

D-38A | FINAL PLANS

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

ROCKETDYNE RD

20+30

STOP

R1-1 36"

4

680

690

HEARTHSIDE STREET

YIELD

48"

BACK TO BACK

R1-2

DO NOT ENTER

R5-1

30"x30"

1

683+52

STA. 684+10.00 RTE. 60 =
STA. 26+87.67 HEARTHSIDE ST.(NORTH)=
STA. 20+00.00 LARAMIE LN.(SOUTH)

YIELD

48"

BACK TO BACK

R1-2

DO NOT ENTER

R5-1

30"x30"

2

26+32

RIGHT LANE MUST TURN RIGHT

R3-7R

30"x30"

3

688+03

℄ RTE 60

LARAMIE LANE

SCALE

0 50 100 150

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/16/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	C24

COUNTY
NEWTON

JOB NO.
J7P2179

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(40)

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNING PLAN SHEET
ADD ALTERNATE "C"
SHEET 1 OF 3

FINAL PLANS

REV.

EFFECTIVE 01-01-2003

SIGNS					PIPE POST					STRUCTURAL STEEL POSTS						BACKING BARS 2" X 3/8" BARS @ 2.55 LBS PER LIN FT				TOTAL ITEM NO. 903-12.10	U-CHANNEL POST ITEM NO. 903-12.50	WOOD POSTS			PERF. STEEL SQ.		BREAKAWAY ASSEMBLY ITEM NO. 903-12.40	CONC FTG'S EMBD ITEM NO. 903-10.10	CONC FTG'S BOLT DOWN ITEM NO. 903-10.20	HORZ CLEAR IF NOT STD	DELINEATORS, MILEPOSTS, CONDUIT, CONDUCTOR CABLE, TRENCHING AND BACKFILLING. CONTROL STATION, PULL BOXES AND OTHER REQUIRED ITEMS.
SIGN NO.	STATION	SIGN DTL. SHT. NO.	LOCATION	SIGN SIZE	PIPE SIZE	POST NO. 1	POST NO. 2	LBS PER FT	TOTAL ITEM NO. 903-12.20	POST DES NO.	POST NO. 1	POST NO. 2	POST NO. 3	LBS PER FT	TOTAL	NO. EACH	LGTH IN.	TOTAL	TOTAL			4"X4" ITEM NO. 903-12.60	4"X6" ITEM NO. 903-12.61	6"X6" ITEM NO. 903-12.62	POSTS ITEM NO. 903-12.70	ANCHOR SLEEVE ITEM NO. 903-12.71					
					IN.	LIN FT	LIN FT		LBS		LIN FT	LIN FT	LIN FT		LBS			LIN FT	LBS	LBS	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	EACH	CU YDS	CU YDS		
1	683+52		RTE 60 LT	ASSEMBLY																					16	3.25		0.09			
2	26+32		HEARTHSIDE LT	ASSEMBLY																					16	3.25		0.09			
3	688+03		RTE 60 LT	30"x30"																					16	3.25		0.09			
4	20+30		HEARTHSIDE LT	36"x36"																					16	3.25		0.09			
TOTAL																									64	13.00		0.36			

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/16/2015

ROUTE 60 | STATE MO

DISTRICT SW | SHEET NO. C25

COUNTY NEWTON

JOB NO. J7P2179

CONTRACT ID. 150123-G01

PROJECT NO. FAF-60-1(40)

BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNING QUANTITY SHEET
ADD ALTERNATE "C"
SHEET 2 OF 3

EFFECTIVE 07-01-2010

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	STATION	LOCATION	TYPE: SHR2L-1 (YIELD, 48")	TYPE: SHR2L-1 (DO NOT ENTER, 30"x30")
1	683+52	RTE 60 LT.	1	1
2	26+32	HEARTHSIDE LT.	1	1

SIGN SUMMARY

STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQUARE FEET: SIZE	SHR2L-1 ITEM NO. 903-50.04	STR2L-1 ITEM NO. 903-50.64	SHR2L-3 ITEM NO. 903-50.65	STR2L-3 ITEM NO. 903-50.11	SHR4L-1 ITEM NO. 903-50.69	STR4L-1 ITEM NO. 903-50.71	SHR4L-3 ITEM NO. 903-50.70	STR4L-3 ITEM NO. 903-50.72	48" STOP EACH	36" STOP EACH
1,2 (YIELD)		2	48"	13.8									
1,2 (DO NOT ENTER)		2	30" x 30"	12.5									
3 (RIGHT LANE MUST TURN RIGHT)		1	30" x 30"	6.3									
4		1											1
TOTAL				32.6									1

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

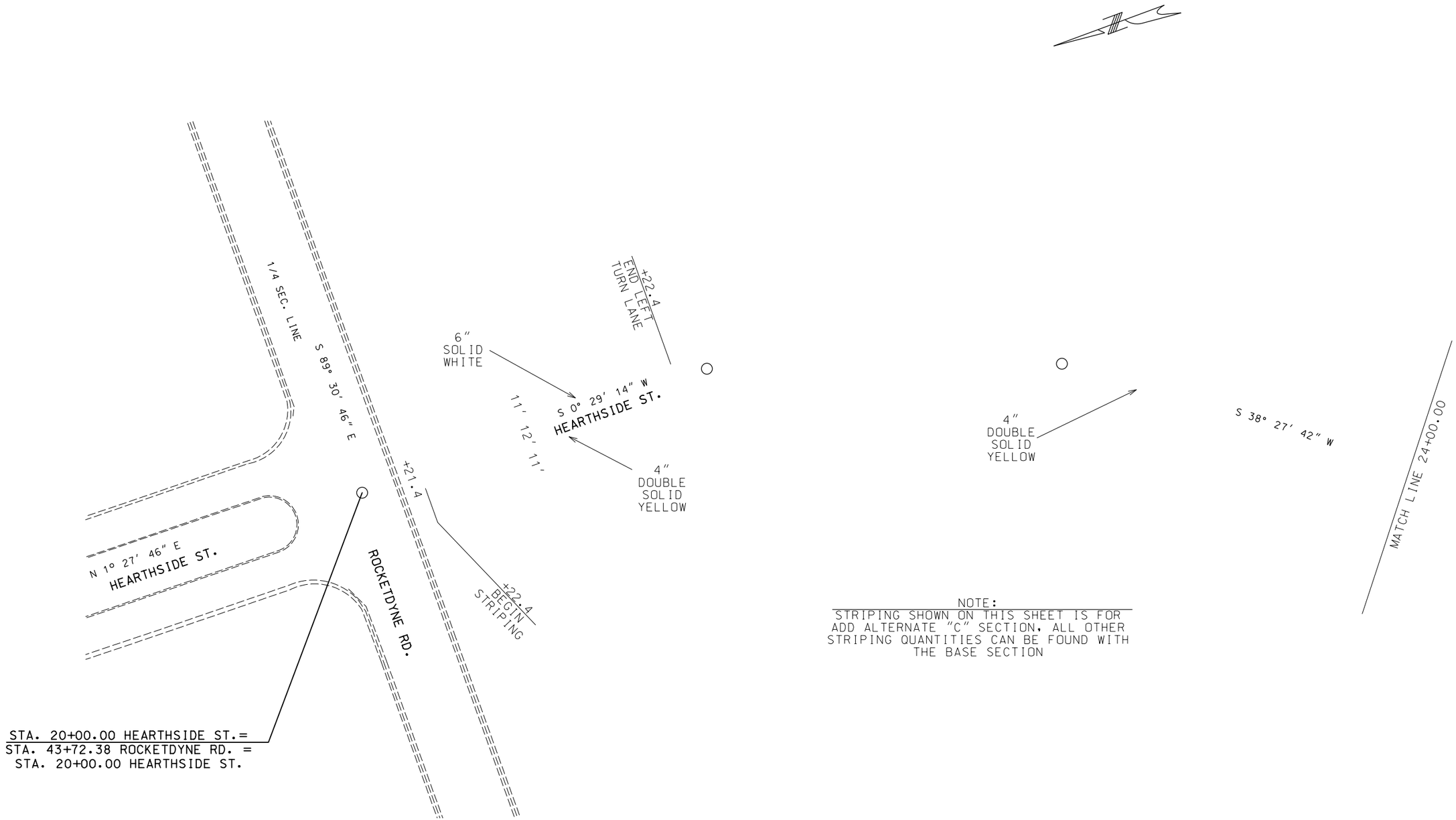
DATE PREPARED 12/16/2015
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. C26
COUNTY NEWTON
JOB NO. J7P2179
CONTRACT ID. 150123-G01
PROJECT NO. FAF-60-1(40)
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNING QUANTITY SHEET
ADD ALTERNATE "C"
SHEET 3 OF 3

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



NOTE:
STRIPING SHOWN ON THIS SHEET IS FOR ADD ALTERNATE "C" SECTION, ALL OTHER STRIPING QUANTITIES CAN BE FOUND WITH THE BASE SECTION

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/16/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	C27

COUNTY
NEWTON

JOB NO.
J7P2179

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(40)

BRIDGE NO.

DESCRIPTION	DATE

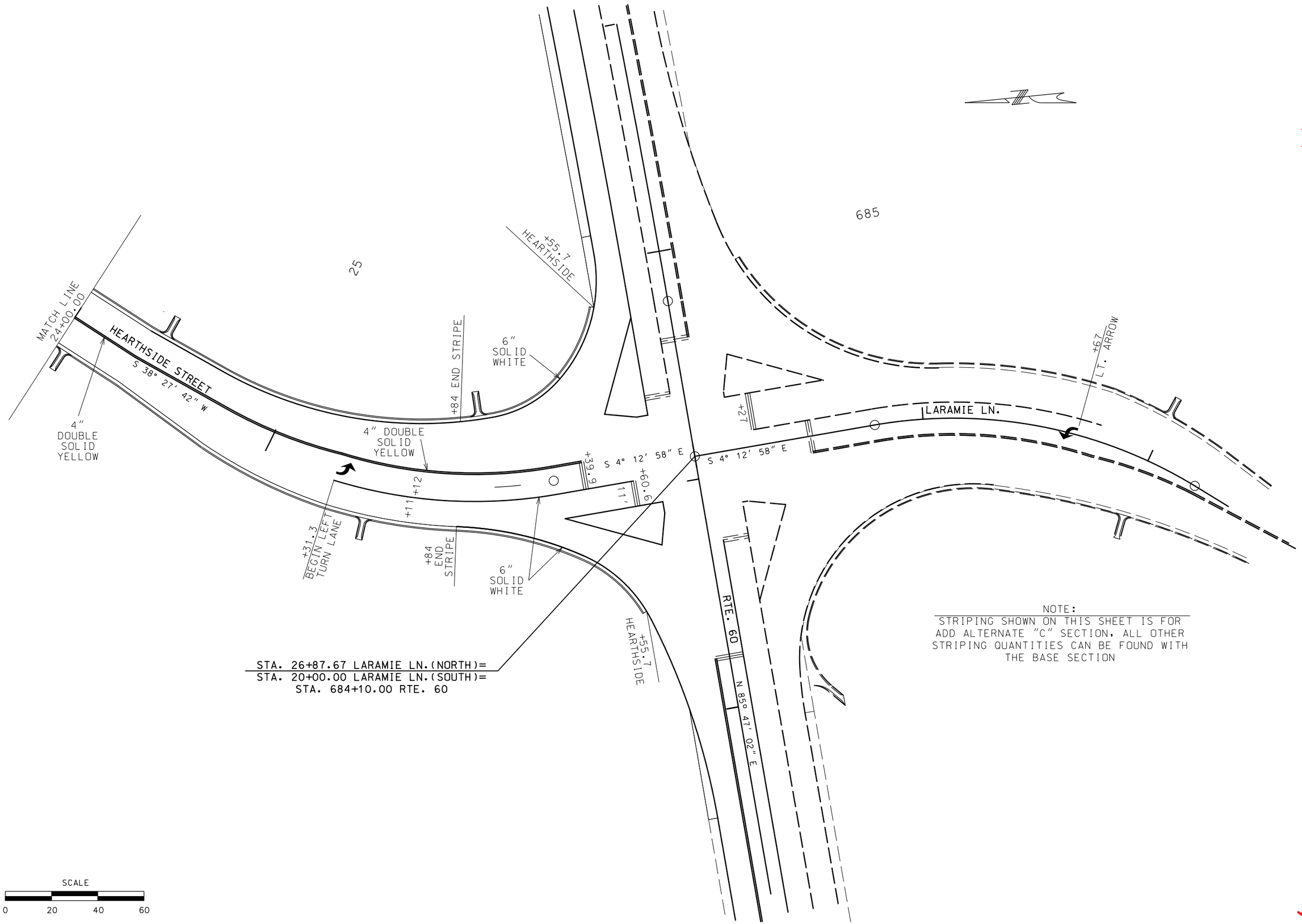
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PAVEMENT MARKING SHEET
ADD ALTERNATE "C"
SHEET 1 OF 5

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



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DATE PREPARED 12/16/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	C28

COUNTY: NEWTON
JOB NO.: J7P2179
CONTRACT ID.: 150123-G01
PROJECT NO.: FAF-60-1(40)
BRIDGE NO.:

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

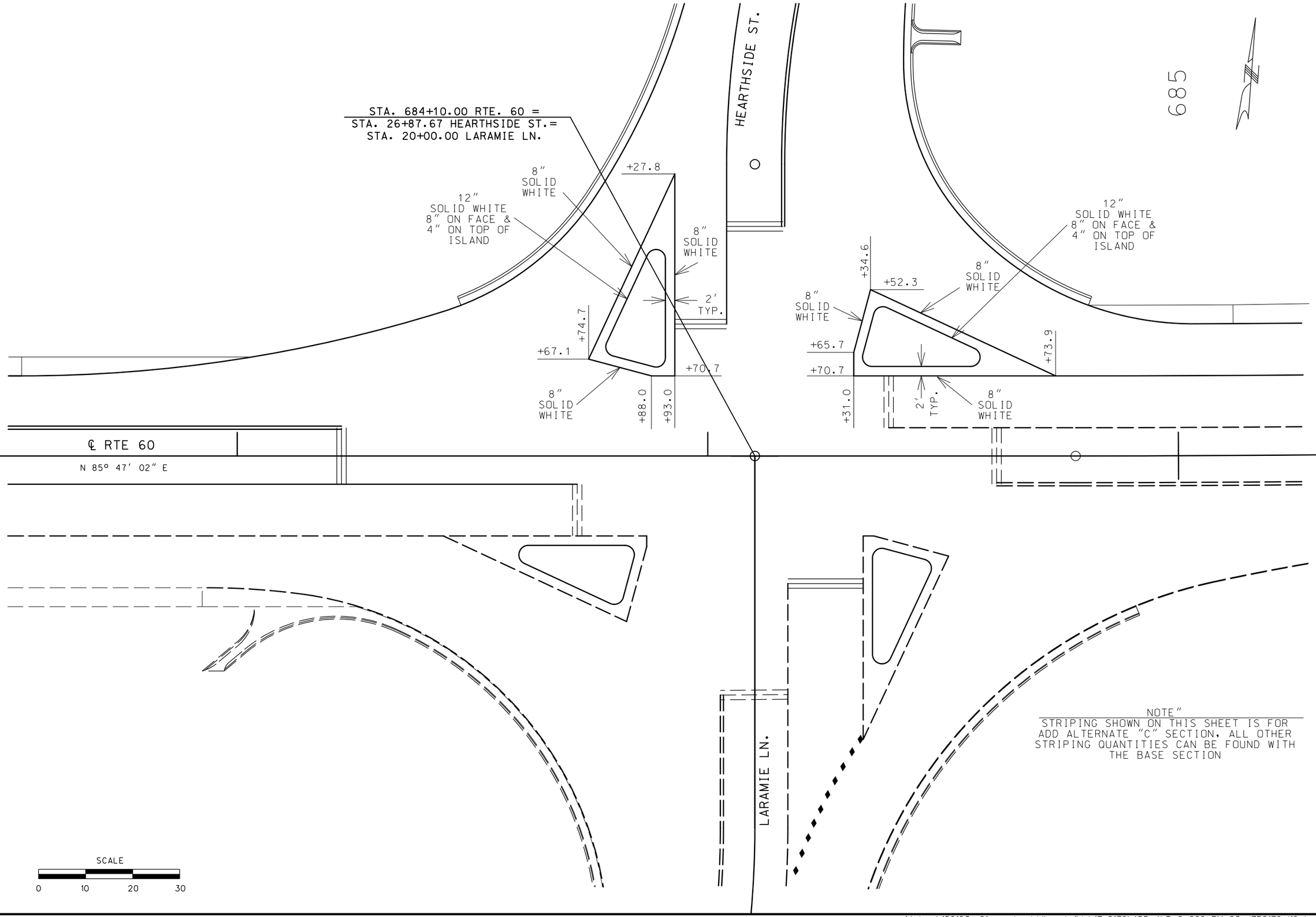
PAVEMENT MARKING SHEET
ADD ALTERNATE "C"
SHEET 2 OF 5

FINAL PLANS

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

j:\docs\150123-g01_neosho_tdd\as_builds\j7p2179\ADD_ALT_C_028_PM_02_J7P2179_120.dgn 8:09:38 AM 12/16/2015



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	12/16/2015
ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	C29
COUNTY	NEWTON
JOB NO.	J7P2179
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(40)
BRIDGE NO.	

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PAVEMENT MARKING SHEET
ADD ALTERNATE "C"
SHEET 3 OF 5

FINAL PLANS

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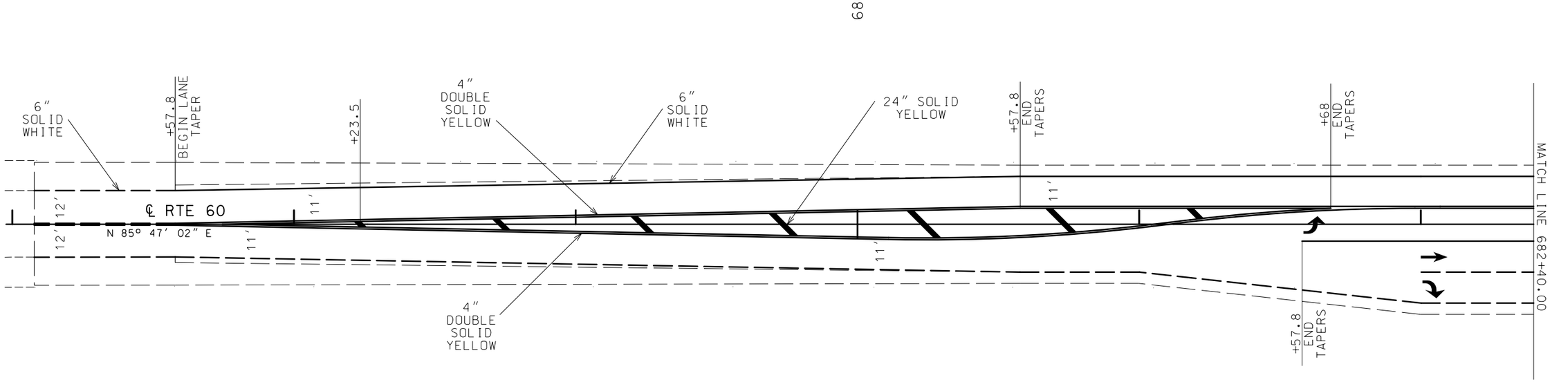

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SCALE
0 20 40 60

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED 12/16/2015

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	C30

COUNTY: NEWTON
JOB NO.: J7P2179
CONTRACT ID.: 150123-G01
PROJECT NO.: FAF-60-1(40)
BRIDGE NO.:

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

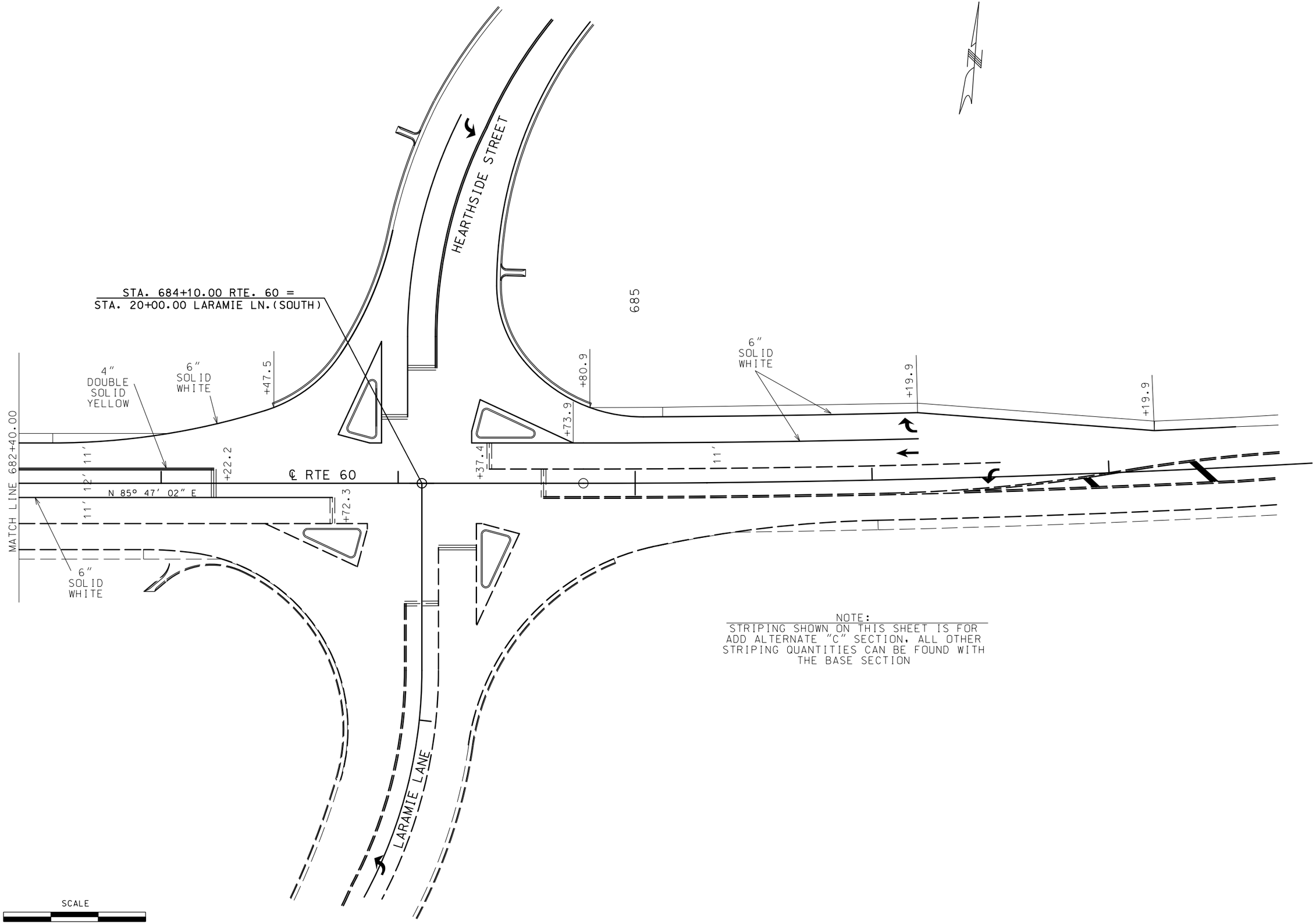
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PAVEMENT MARKING SHEET
ADD ALTERNATE "C"
SHEET 4 OF 5

FINAL PLANS

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED	12/16/2015
ROUTE	60
STATE	MO
DISTRICT	SW
SHEET NO.	C31
COUNTY	NEWTON
JOB NO.	J7P2179
CONTRACT ID.	150123-G01
PROJECT NO.	FAF-60-1(40)
BRIDGE NO.	

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PAVEMENT MARKING SHEET ADD ALTERNATE "C" SHEET 5 OF 5

FINAL PLANS

REV.

"THIS MEDIA SHOULD NOT BE CONSIDERED A CERTIFIED DOCUMENT."

DATE PREPARED
12/16/2015

ROUTE	STATE
60	MO

DISTRICT	SHEET NO.
SW	C32

COUNTY
NEWTON

JOB NO.
J7P2179

CONTRACT ID.
150123-G01

PROJECT NO.
FAF-60-1(40)

BRIDGE NO.

DESCRIPTION	DATE

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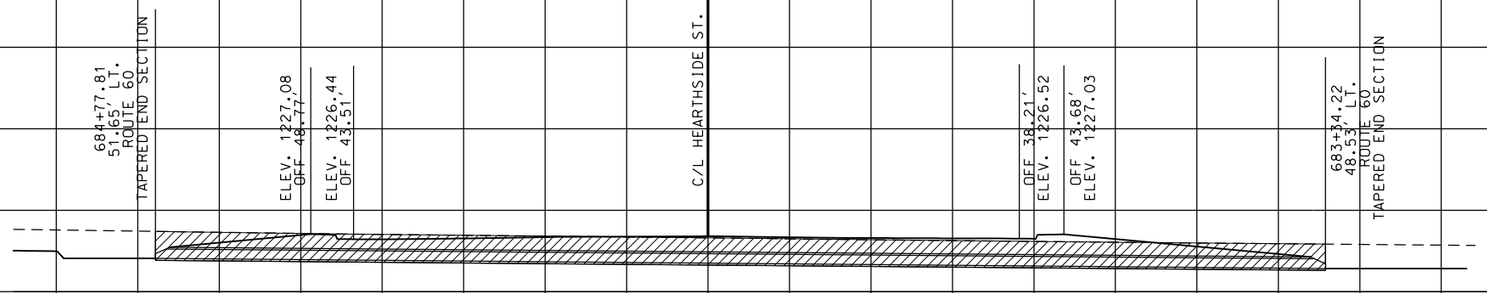
HEARTHSIDE STREET
STA. 26+37.49

14"x23"x140' ELLIPTCAL PIPE
w/2 - 14"x23" TAPERED END SECTIONS
CL. 3 EXC. = 95 C.Y.



130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CULVERT SECTION SHEET
ADD ALTERNATE "C"
SHEET 1 OF 1

FINAL PLANS

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY
NEWTON COUNTY

DESIGN DESIGNATION

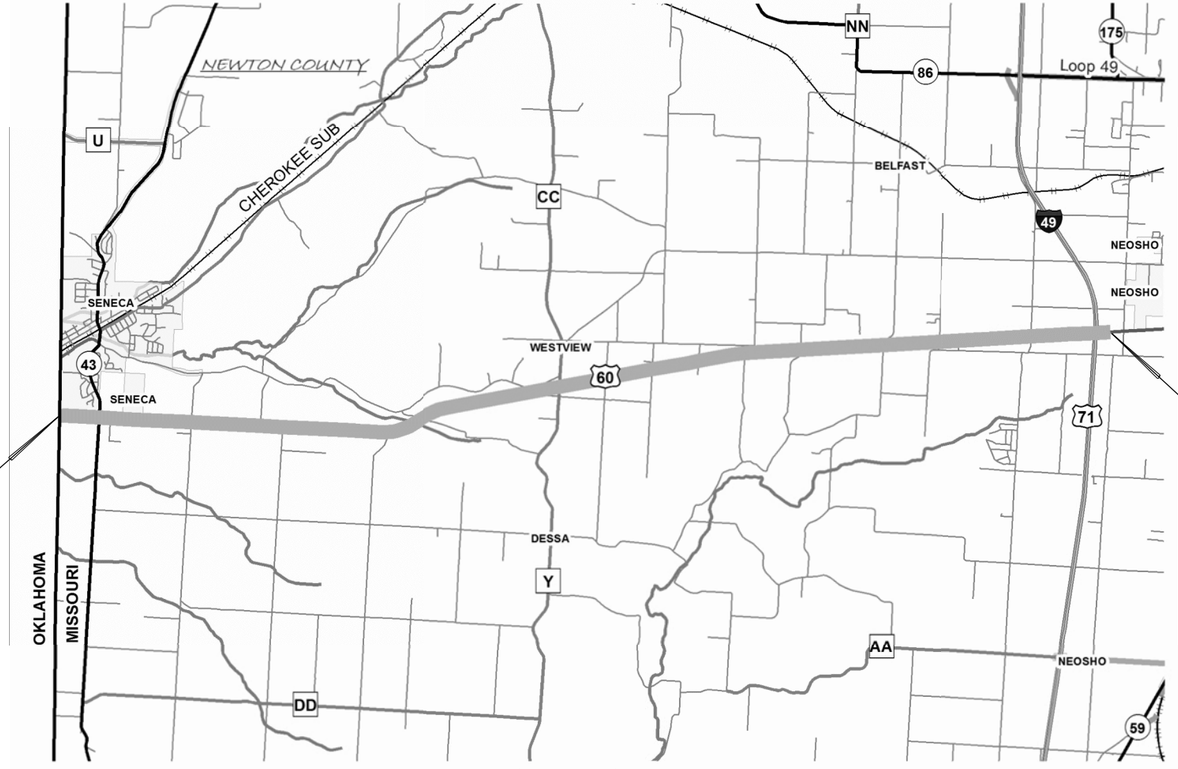
A.A.D.T. - 2013 = 7280
T = 17.4%
V = 65 M.P.H.

FUNCTIONAL CLASSIFICATION- PRINCIPAL ARTERIAL

CONVENTIONAL SYMBOLS
(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	-FO-
OVERHEAD TELEPHONE		
UNDERGROUND TELEPHONE	-T-	-T-
OVERHEAD POWER		
UNDERGROUND POWER	-P-	-P-
GAS	-G-	-G-
WATER	-W-	-W-
MANHOLE	SAN	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
DROP INLET	DI	
DITCH BLOCK		
GROUND MOUNTED SIGN	SIGN	
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL	PED	
FENCE		
CHAIN LINK	-V-	
WOVEN WIRE	-X-	
GATE POST		
BENCHMARK	BM	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES



PROJECT LIMIT 11.547 MILES
RESURFACING 1.5" SP095C W/ BP-2 SHOULDERS

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (2 SHEETS)	2
QUANTITIES (QU) (4 SHEETS)	3
SPECIAL SHEET (SS)	4-7
TRAFFIC CONTROL SHEETS (TC)	8-12

LENGTH OF PROJECT

BEGINNING OF PROJECT	LOG MILE 0.000
END OF PROJECT	LOG MILE 11.547
APPARENT LENGTH	11.547 MILES
EQUATIONS AND EXCEPTIONS: NONE	0.000 MILES

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE PREPARED: 6/12/2014

ROUTE	STATE
60	MO

DISTRICT	SHEET NO.
SW	1

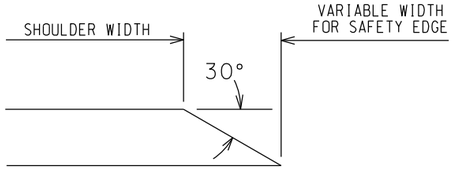
COUNTY: NEWTON
JOB NO.: J7P2201
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

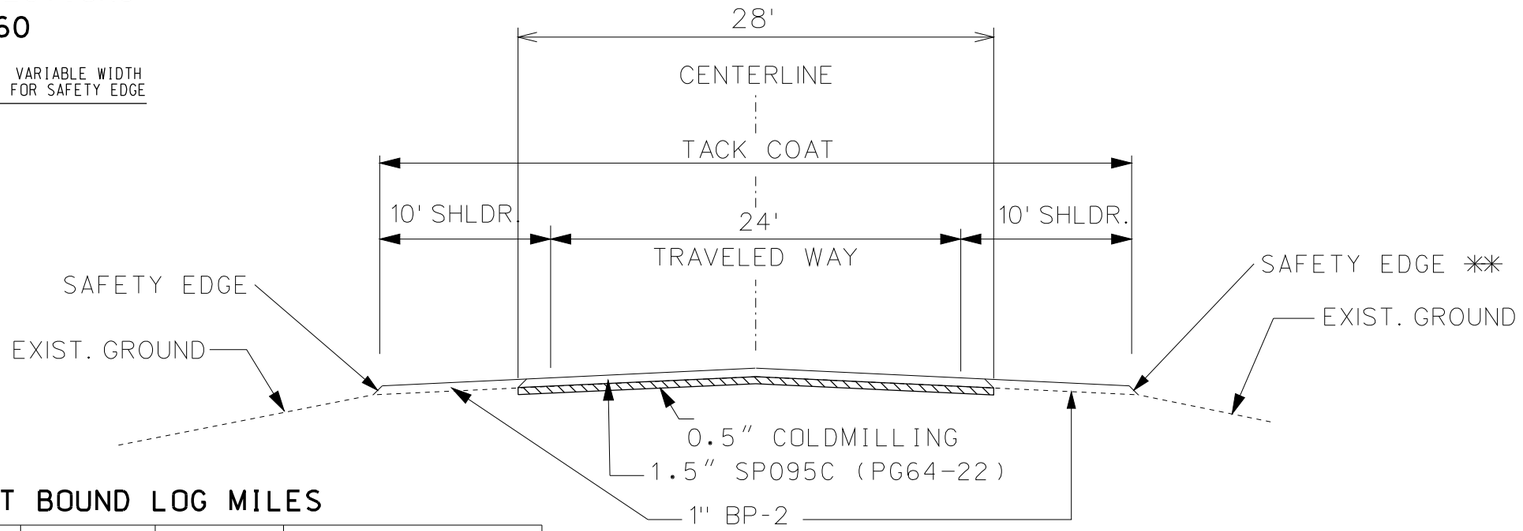
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TYPICAL SECTIONS
US 60



SAFETY EDGE DETAIL



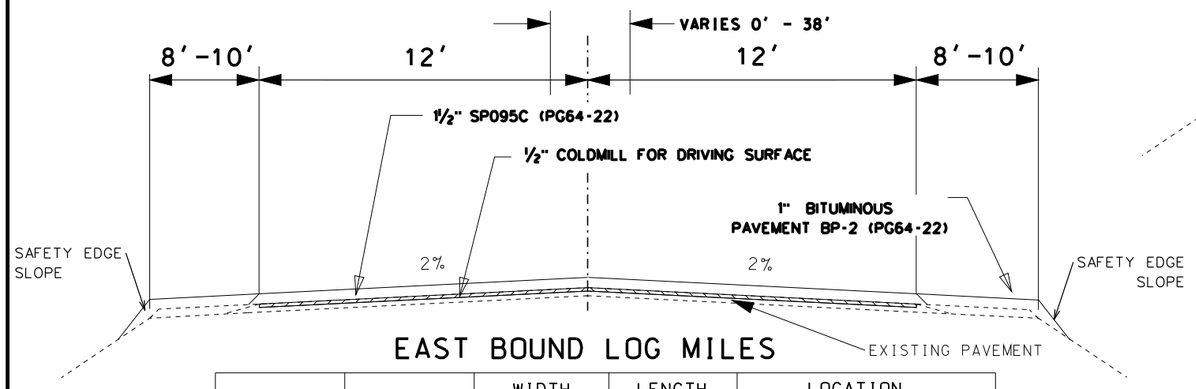
EAST BOUND LOG MILES

LOG MILE	LOG MILE	WIDTH (FEET)	LENGTH (MILES)	LOCATION
0.000	11.238	44'	11.238	

SP095C ESTIMATED AT 1.913 TONS PER CUBIC YARD

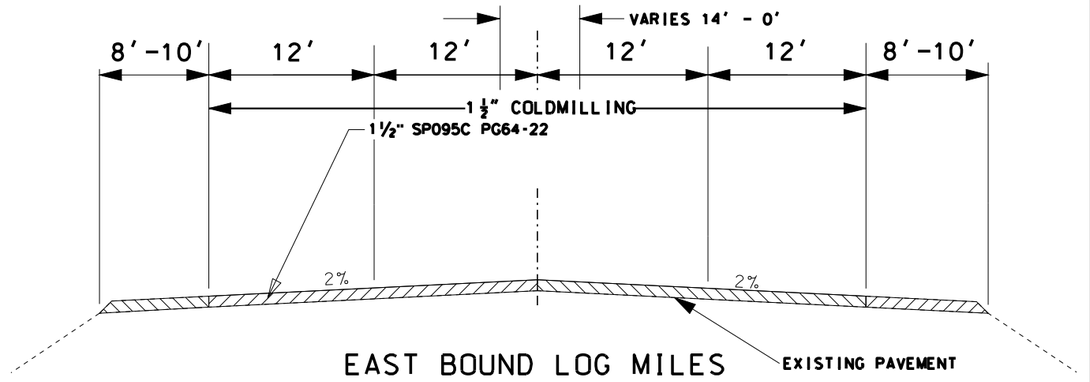
BP-2 ESTIMATED AT 1.934 TONS PER CUBIC YARD

TACK ESTIMATED AT 0.08 GALLONS PER SQUARE YARD



EAST BOUND LOG MILES

LOG MILE	LOG MILE	WIDTH (FEET)	LENGTH (MILES)	LOCATION
11.238	11.289	44'- 78'	0.051	W of INTERCHANGE



EAST BOUND LOG MILES

LOG MILE	LOG MILE	WIDTH (FEET)	LENGTH (MILES)	LOCATION
11.289	11.338	62'	0.049	OMIT CONCRETE SHOULDERS
11.338	11.438	78'	0.100	RTE 60 & US 71
11.438	11.479	62'	0.041	OMIT CONCRETE SHOULDERS
11.479	11.528	78' - 50'	0.049	RTE 60 & US 71
11.528	11.547	50' - 44'	0.019	END PROJECT

TYPICAL SECTIONS
SHEET 1 OF 2

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
6/12/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	2

COUNTY
NEWTON

JOB NO.
J7P2201

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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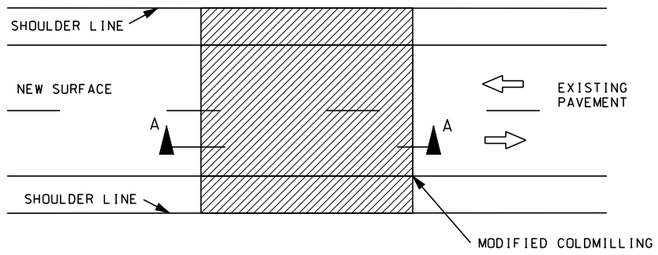
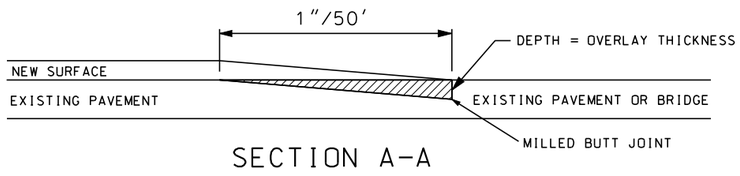
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

US 60

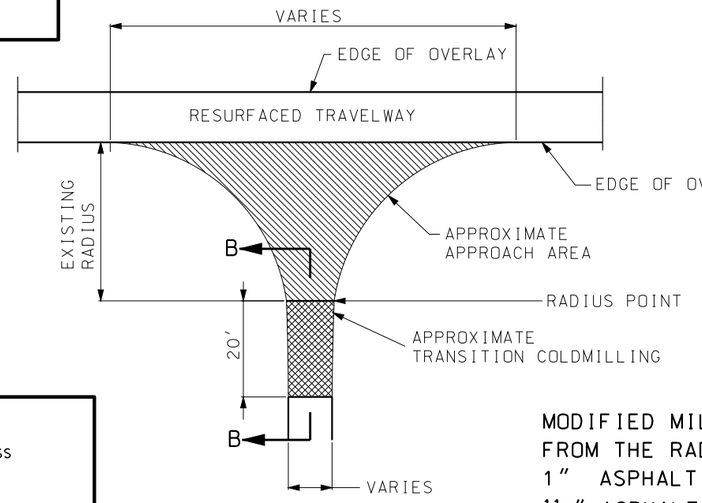


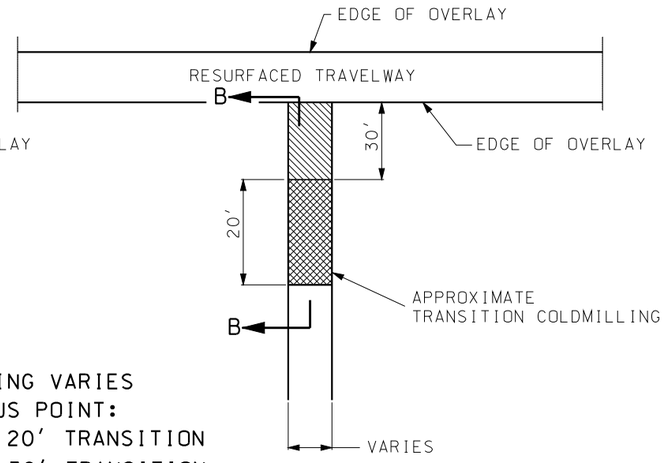
MAINLINE, BRIDGE AND RAILROAD PLAN



SECTION A-A

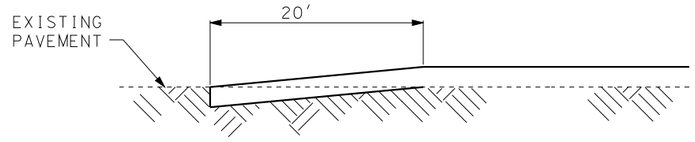
TRANSVERSE JOINT TRANSITION FOR SINGLE LIFT PROJECT BEGINNING, END, BRIDGE



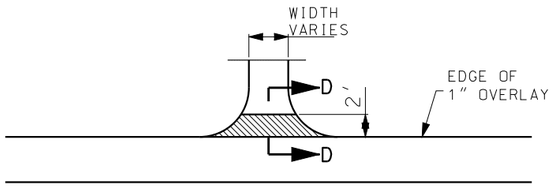


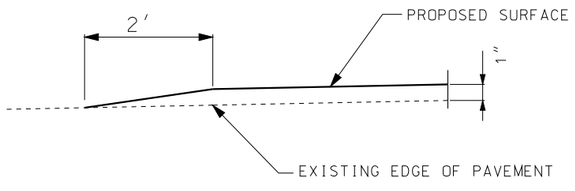
MODIFIED MILLING VARIES FROM THE RADIUS POINT:
1" ASPHALT = 20' TRANSITION
1¼" ASPHALT = 30' TRANSITION
1¾" ASPHALT = 50' TRANSITION

SURFACING REQUIREMENTS FOR OVERLAYS AT STATE ROADS. SEE QUANTITY SHEETS FOR LOCATIONS

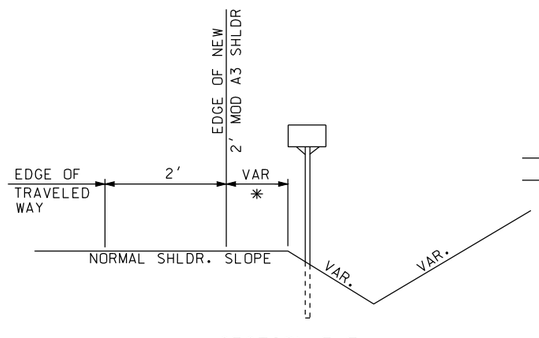


SECTION B-B
TYPICAL STATE ROUTE JUNCTION

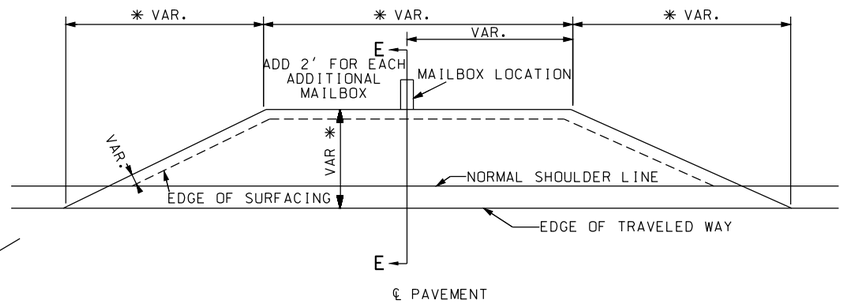




SECTION D-D
TYPICAL ENTRANCE
(FIELD, PRIVATE OR COUNTY ROAD)
*TAPER AT 1:1 FOR FIELD ENTRANCE



SECTION E-E



TYPICAL MAILBOX
* TO BE APPROVED BY THE ENGINEER
QUANTITY COVERED BY IRREGULARITIES

TYPICAL SECTION
SHEET 2 OF 2

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 6/12/2014
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. 2
COUNTY NEWTON
JOB NO. J7P2201
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

1.5" ASPHALTIC CONCRETE PAVEMENT (SP095C) PG-64-22						
BEGIN LOG MILE	END LOG MILE	LENGTH (MI)	WIDTH (FT)	OVERLAY (TON)	TACK (GAL)	COMMENT
0.000	11.238	11.238	28	14714.39	14768.23	
0.000	11.238	11.238	0.125	65.69	131.86	1:1 slope
11.238	11.280	0.042	Varies	84.45	84.76	Prior to int. at 71
11.289	11.479	0.190	62	550.86	552.87	Through intersection
11.479	11.547	0.068	Varies	136.73	137.23	after intersection
5.367	11.289	5.922	0.125	34.62	69.48	1:1 slope
		11.547		577.35		IRREGULARITIES 50 TONS/MILE
		0.017	Varies	37.20	37.33	90' RTE 43 N
		0.017	Varies	31.00	31.11	90' RTE 43 S
SP095C ESTIMATED AT 1.913 TONS PER CUBIC YARD						
TACK ESTIMATED AT 0.08 GALLONS PER SQUARE YARD						
			SUBTOTAL	16232.28	15812.89	
			USE	16232.3	-	

1" BITUMINOUS PAVEMENT SHOULDER (BP-2)						
BEGIN LOG MILE	END LOG MILE	LENGTH (MI)	WIDTH (FT)	OVERLAY (TON)	TACK (GAL)	COMMENT
0.000	11.201	11.201	16	5648.36	8411.20	Shoulders outside of Rumble Strip
11.201	11.289	0.088	16	44.38	66.08	Shoulders outside of Rumble Strip
11.289	11.338	0.049	-	-	-	Ignore concrete shoulders

1.5" BITUMINOUS PAVEMENT SHOULDER (BP-2)						
BEGIN LOG MILE	END LOG MILE	LENGTH (MI)	WIDTH (FT)	OVERLAY (TON)	TACK (GAL)	COMMENT
11.338	11.438	0.100	16	75.64	75.09	1.5" COLDMILL & RESURFACE
11.438	11.479	0.041	-	-	-	Ignore concrete shoulders
11.479	11.547	0.068	Varies	28.93	28.72	North side shoulder only
		11.289		66.71	132.46	Safety Edge Slope
		11.289		225.78		IRREGULARIES 20 TONS/MILE
		0.013	Varies	16.54	24.63	RTE CC
		0.013	Varies	10.61	15.80	RTE Y
				10.84	10.00	mailboxes
				36.12	30.00	driveways and entrances
				22.58	20.00	county roads
BP-2 ESTIMATED AT 1.934 TONS PER CUBIC YARD						
TACK ESTIMATED AT 0.08 GALLONS PER SQUARE YARD						
FOG SEAL ESTIMATED AT 0.15 GALLONS PER SQUARE YARD						
			SUBTOTAL	6186.49	8813.99	
			USE	6186.5	24630	

MOBILIZATION
1 LUMP SUM

CONTRACTOR FURNISHED SURVEY & STAKING
1 LUMP SUM

SUMMARY SHEET
SHEET 1 OF 4

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
6/26/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	3

COUNTY
NEWTON

JOB NO.
J7P2201

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

MODIFIED COLDMILLING (DEPTH TRANSITION)					
BEGIN LOG MILE	END LOG MILE	LENGTH (FT)	WIDTH (FT)	MODIFIED COLDMILLING (SQ YD)	COMMENT
0.000	0.009	50	44	244.4	BEGIN OF PROJECT
11.280	11.289	50	78	433.3	BEGIN COLDMILL
		20	24	53.3	RTE CC
		20	24	53.3	RTE Y
		30	40	133.3	RTE 43 N OF RTE 60
		30	24	80.0	RTE 43 S OF RTE 60
			USE	998	

COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (3 INCH THICK OR LESS)					
BEGIN LOG MILE	END LOG MILE	LENGTH (FT)	WIDTH (FT)	COLDMILLING (SQ YD)	COMMENT
					1/2" Coldmill
0.000	11.238	59337	28	184602.9	
11.238	11.28	222	Varies	1059.5	
					1 1/2" Coldmill
11.289	11.338	260	62	1791.1	Concrete Shoulders
11.338	11.439	530	78	4593.3	Under I-49
11.439	11.479	215	62	1481.1	Concrete Shoulders
11.479	11.547	357	Varies	2064.1	to end, north side shoulder only
			USE	195592	

BITUMINOUS RUMBLE STRIPS				
BEGIN LOG MI	END LOG MI	LENGTH (FT)	EDGELINE (STA)	CENTERLINE (STA)
0.000	11.238	59,337	593.4	593.4
		TOTAL =	593.4	593.4
		USE =	1,186.7	593.4

TEMPORARY RAISED PAVEMENT MARKERS				
TYPE 1				
LOG MILE	LOG MILE	LENGTH (MI)	USE (EA)	LOCATION
0.000	11.547	11.547	1525.0	CENTER LINE
11.290	11.31	0.020	4.0	1-LANE LINE EB
11.339	11.360	0.021	8.0	2-LANE LINE WB
11.399	11.439	0.040	12.0	2-LANE LINE EB
11.459	11.499	0.040	6.0	1-LANE LINE WB
		TOTAL (USE)	1555.0	TYPE 1 TRPM
TYPE 2				
LOG MILE	LOG MILE	LENGTH (MI)	USE (EA)	LOCATION
0.000	11.547	11.547	4576.0	EAST BOUND SHOULDER
0.000	11.547	11.55	4576.0	WEST BOUND SHOULDER
		TOTAL (USE)	9152.0	TYPE 2 TRPM

REMOVAL OF IMPROVEMENTS				
GUARDRAIL SYSTEM				
BEGIN LOG	END LOG	LOCATION	REMOVAL (L.F)	REMARKS
0.000	0.204	NORTH SIDE (WB)	1078	BEGIN PROJECT
0.000	0.048	SOUTH SIDE (EB)	252	BEGIN PROJECT
2.430	2.537	NORTH SIDE (WB)	565	
2.430	2.537	SOUTH SIDE (EB)	565	
2.872	2.948	NORTH SIDE (WB)	401	
2.864	2.935	SOUTH SIDE (EB)	376	
3.189	3.350	NORTH SIDE (WB)	851	
3.184	3.243	SOUTH SIDE (EB)	313	
3.268	3.350	SOUTH SIDE (EB)	434	
3.546	3.607	NORTH SIDE (WB)	322	
4.087	4.223	NORTH SIDE (WB)	718	
4.669	4.746	NORTH SIDE (WB)	404	
4.665	4.732	SOUTH SIDE (EB)	355	
8.881	8.957	NORTH SIDE (WB)	403	
8.863	8.940	SOUTH SIDE (EB)	404	
10.767	10.844	NORTH SIDE (WB)	408	
10.779	10.832	SOUTH SIDE (EB)	281	
11.364	11.407	NORTH SIDE (WB)	228	AT I-49
11.352	11.395	SOUTH SIDE (EB)	228	AT I-49
		TOTAL	8586	
		REMOVAL	1 LUMP SUM	

CABLE LOOP DETECTOR, IN DUCT			
LOG MI	QTY	1C #14 IN-DUCT CABLE, (FT)	REMARKS
11.308	2	528	TURN LANE & THRU LANE
11.339	3	792	TURN LANE & THRU LANE (3)
11.430	3	792	TURN LANE & THRU LANE (3)
11.450	2	528	TURN LANE & THRU LANE
	10		TOTAL LOOPS
	264' PER LOOP	2640	TOTAL IN DUCT (LOOPS)
	150' LEAD IN PER LOOP	1500	TOTAL LEAD IN (10 LOOPS)

NOTE: FINAL EDGELINE & CENTERLINE STRIPING TO BE DONE BY OTHERS.
TEMPORARY RAISED PAVEMENT MARKERS TO BE REMOVED BY OTHERS AFTER FINAL STRIPING.

SUMMARY SHEET
SHEET 2 OF 4

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
6/26/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	3

COUNTY
NEWTON

JOB NO.
J7P2201

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

GUARDRAIL SYSTEM							
				TYPE A	TRANSITION		
BEGIN LOG	END LOG	LOCATION	TYPE A GUARDRAIL (L.F)	CRASHWORTHY END TERMINAL (EACH)	SECTION 6.5' POST (EACH)	TYPE E GUARDRAIL (L.F)	REMARKS
0.000	0.206	NORTH SIDE (WB)	1000	2			BEGIN PROJECT
0.000	0.050	SOUTH SIDE (EB)	175	2			
2.430	2.539	NORTH SIDE (WB)	487.5	2			
2.430	2.539	SOUTH SIDE (EB)	487.5	2			
2.872	2.950	NORTH SIDE (WB)	325	2			
2.864	2.937	SOUTH SIDE (EB)	300	2			
3.189	3.352	NORTH SIDE (WB)	775	2			
3.184	3.246	SOUTH SIDE (EB)	237.5	2			
3.268	3.351	SOUTH SIDE (EB)	362.5	2			
3.546	3.608	NORTH SIDE (WB)	250	2			
4.087	4.224	NORTH SIDE (WB)	637.5	2			
4.669	4.747	NORTH SIDE (WB)	325	2			
4.665	4.734	SOUTH SIDE (EB)	275	2			
8.881	8.959	NORTH SIDE (WB)	325	2			
8.863	8.941	SOUTH SIDE (EB)	325	2			
10.767	10.845	NORTH SIDE (WB)	337.5	2			
10.779	10.833	SOUTH SIDE (EB)	200	2			
11.364	11.409	NORTH SIDE (WB)	12.5	2	2	137.5	AT I-49
11.352	11.397	SOUTH SIDE (EB)	12.5	2	2	137.5	AT I-49
		TOTAL (USE)	6850	38	4	275	

TYPE 2 PREFORMED MARKING TAPE (GROOVED)					
ARROWS					
LOG MI	LOCATION	LEFT	STRAIGHT	COMBO	COMMENTS
11.289	EB		1	1	
11.349	WB	1			
11.372	WB	1			
11.399	EB	1			
11.418	EB	1			
11.493	WB		1	1	
	TOTAL (EA)	4	2	2	

TYPE 2 PREFORMED MARKING TAPE (GROOVED)				
STOP BARS				
LOG MI	LOG MI	LOCATION	LENGTH NEEDED	COMMENTS
	11.310		24	EB
	11.339		38	WB
	11.439		38	EB
	11.459		24	WB
			12	RTE CC
			12	RTE Y
		N & S	24	RTE 43
		TOTAL (USE)	172	

TYPE 2 PREFORMED MARKING TAPE (GROOVED)				
24" YELLOW (HASH BARS)				
LOG MI	LOG MI	LOCATION	LENGTH NEEDED	COMMENTS
	11.258		70	7 MARKS
	11.459		80	8 MARKS
		12" YELLOW TOTAL (USE)	150	

SUMMARY SHEET
SHEET 3 OF 4

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 6/26/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	3

COUNTY: NEWTON
JOB NO.: J7P2201
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

SIGN	SIZE (IN)	AREA (SQ FT)	QTY (EA)	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION
WARNING SIGNS							
W01-1L	48X48	16					TURN (SYMBOL LEFT ARROW)
W01-1R	48X48	16					TURN (SYMBOL RIGHT ARROW)
W01-2L	48X48	16					CURVE (SYMBOL LEFT ARROW)
W01-2R	48X48	16					CURVE (SYMBOL RIGHT ARROW)
W01-3L	48X48	16					REVERSE TURN (SYMBOL LEFT ARROW)
W01-3R	48X48	16					REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4L	48X48	16					REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4R	48X48	16					REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4bL	48X48	16					DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
W01-4bR	48X48	16					DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
W01-4cL	48X48	16					TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
W01-4cR	48X48	16					TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
W01-6	60X30	12.5					HORIZONTAL ARROW (SYMBOL)
W01-6a	72X36	18					HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE)
W01-7	60X30	12.5					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	72X36	18					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE)
W01-8	18X24	3					CHEVRON (SYMBOL)
W01-8a	30X36	7.5					CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
W03-1	48X48	16					STOP AHEAD (SYMBOL)
W03-2	48X48	16					YIELD AHEAD (SYMBOL)
W03-3	48X48	16					SIGNAL AHEAD (SYMBOL)
W03-4	48X48	16					BE PREPARED TO STOP
W03-5	48X48	16	4	64			SPEED LIMIT AHEAD
W04-1L	48X48	16					MERGE (SYMBOL FROM LEFT)
W04-1R	48X48	16					MERGE (SYMBOL FROM RIGHT)
W05-1	48X48	16					ROAD/BRIDGE/RAMP NARROWS
W05-3	48X48	16					ONE LANE BRIDGE
W05-5	48X48	16					NARROW LANES
W06-1	48X48	16					DIVIDED HIGHWAY (SYMBOL)
W06-2	48X48	16					DIVIDED HIGHWAY END (SYMBOL)
W06-3	48X48	16					TWO WAY TRAFFIC (SYMBOL)
W07-3a	30X24	5					NEXT XX MILES (PLAQUE)
W08-1	48X48	16	10	160			BUMP
W08-2	48X48	16					DIP
W08-3	48X48	16					PAVEMENT ENDS
W08-4	48X48	16					SOFT SHOULDER
W08-5	48X48	16					SLIPPERY WHEN WET (SYMBOL)
W08-6	48X48	16					TRUCK CROSSING WITH FLAGS
W08-6c	48X48	16					TRUCK ENTRANCE
W08-7	36X36	9					LOOSE GRAVEL
W08-9	48X48	16					LOW SHOULDER
W08-11	48X48	16	24	384			UNEVEN LANES
W08-12	48X48	16	16	256			NO CENTER LINE
W10-1	42 RND.	9.62		0			RAILROAD CROSSING
W012-1	24X24	4		0			DOUBLE DOWN ARROW (SYMBOL)
W012-2	48X48	16		0			LOW CLEARANCE (SYMBOL)
W012-2x	24X18	3		0			LOW CLEARANCE (PLAQUE)
W012-2a	84X24	14		0			OVERHEAD LOW CLEARANCE (FEET AND INCHES)
W08-15	48X48	16		0			GROOVED PAVEMENT
W08-15p	30X24	5		0			MOTORCYCLE (PLAQUE)
W08-17	48X48	16		0			SHOULDER DROP-OFF (SYMBOL)
W08-17p	30X24	5		0			SHOULDER DROP-OFF (PLAQUE)
SPECIAL	120X60	50		0 0			LOW CLEARANCE XX FT XX IN XX MILES AHEAD
SPECIAL	120X60	50		0 0			WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
W013-1	30X30	6.25		0			ADVISORY SPEED (PLAQUE)
W016-2	30X24	5		0			XXX FEET (PLAQUE)
W016-3	30X24	5		0			X MILE (PLAQUE)
W020-1	48X48	16	8	128			ROAD/BRIDGE/RAMP WORK AHEAD
W020-2	48X48	16		0			DETOUR AHEAD
W020-3	48X48	16		0			ROAD CLOSED AHEAD
W020-4	48X48	16	4	64			ONE LANE ROAD AHEAD
W020-5	48X48	16	2	32			RIGHT/CENTER/LEFT LANE CLOSED AHEAD

SIGN	SIZE (IN)	AREA (SQ FT)	QTY (EA)	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION
W020-5a	48X48	16					2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
W020-6a	48X48	16	2	32			RIGHT/CENTER/LEFT LANE CLOSED
W020-7a	48X48	16	6	96			FLAGGER (SYMBOL) WITH FLAGS
W021-2	36X36	9					FRESH OIL
W021-5b	48X48	16					SHOULDER WORK AHEAD
W022-1	48X48	16					BLASTING ZONE AHEAD
W022-2	42X36	10.5					TURN OFF 2-WAY RADIO AND PHONE
W022-3	42X36	10.5					END BLASTING ZONE
W022-6e	21X15	2.19					WET PAINT (ARROW PIVOTS)
GUIDE SIGNS							
SPECIAL	36X36	9					FRESH OIL/LOOSE GRAVEL
E05-1	36X48	12					GORE EXIT
E05-2	48X36	12					EXIT OPEN
E05-2a	48X36	12					EXIT CLOSED
G020-1	60X24	10	2	20			ROAD WORK NEXT 11 MILES
G020-2	48X24	8	2	16			END ROAD WORK
G020-4	36X18	4.5	1	4.5			PILOT CAR FOLLOW ME
SPECIAL	42X30	8.75	8	70			PLEASE WAIT FOR PILOT CAR
G020-5aP	36X24	6	6	36			WORK ZONE (PLAQUE)
M04-8a	24X18	3					END DETOUR
M04-9L	48X36	12					DETOUR (LEFT ARROW)
M04-9R	48X36	12					DETOUR (RIGHT ARROW)
M04-10L	48X18	6					DETOUR (ARROW LEFT)
M04-10R	48X18	6					DETOUR (ARROW RIGHT)
C				REGULATORY SIGNS			
R1-1	48X48	13.25					STOP
R1-2	48 TRI.	6.93					YIELD
R1-2a	36X36	9					TO ONCOMING TRAFFIC (PLAQUE)
R1-3	20X9	1.25					X-WAY (PLAQUE)
R2-1	36X48	12	16	192			SPEED LIMIT 4) 45, 30 (WITH FLAGS) & 4
R3-1	48X48	16					NO RIGHT TURN (SYMBOL)
R3-2	48X48	16					NO LEFT TURN (SYMBOL)
R3-3	36X36	9					NO TURNS
R3-4	48X48	16					NO U-TURN (SYMBOL)
R3-7L	30X30	6.25	2	12.5			LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25	2	12.5			RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12					DO NOT PASS
R4-2	36X48	12					PASS WITH CARE
R4-7aL	36X48	12					KEEP LEFT (HORIZONTAL ARROW)
R4-7a	36X48	12					KEEP RIGHT (HORIZONTAL ARROW)
R5-1	30X30	6.25					DO NOT ENTER
R5-1a	36X24	6					WRONG WAY
R6-1L	48X18	6					ONE WAY ARROW (LEFT)
R6-1R	48X18	6					ONE WAY ARROW (RIGHT)
R6-2L	24X30	5					ONE WAY (LEFT)
R6-2R	24X30	5					ONE WAY (RIGHT)
R10-6	24X36	6					STOP HERE ON RED (45° ARROW)
R11-2	48X30	10					ROAD CLOSED
R11-3a	60X30	12.5					ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.5		C			ROAD CLOSED TO THRU TRAFFIC
S4-4	36X15	3.75					WHEN FLASHING
CONST-3A	60X48	20					FINE SIGN
CONST-3X	56X12	4.67					SPEEDING/PASSING (PLATE)
MISCELLANEOUS							
SPECIAL	36X48	12					POINT OF PRESENCE
SPECIAL	96X48	32	2	64			POINT OF PRESENCE
CONST-7-48	48X24	8					RATE OUR WORK ZONE
CONST-7-72	72X36	18	2	36			RATE OUR WORK ZONE
616-10.05 CONSTRUCTION SIGNS TOTAL				1680			
616-10.10 RELOCATED SIGNS TOTAL							

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR (8 SAND BARRELS)
6122009		IMPACT ATTENUATOR (9 SAND BARRELS)
6122010		IMPACT ATTENUATOR (10 SAND BARRELS)
6122012		IMPACT ATTENUATOR (12 SAND BARRELS)
6122014		IMPACT ATTENUATOR (14 SAND BARRELS)
6122017		IMPACT ATTENUATOR (17 SAND BARRELS)
6122019		IMPACT ATTENUATOR (19 SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR ARRAY (RELOCATION)
6123000A	2	TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)
6161007		SPEED LIMIT AND STROBE LIGHT ASSEMBLY
6161008		ADVANCED WARNING RAIL SYSTEM
6161009	37	FLAG ASSEMBLY
6161020		CHANNELIZER (DRUM-LIKE)
6161022		CHANNELIZER (CONES)
6161024		CHANNELIZER (TRIM LINE) WITH LIGHT
6161025	250	CHANNELIZER (TRIM LINE)
6161026		CHANNELIZER (VERTICAL PANEL)
6161027		CHANNELIZER (VERTICAL PANEL) WITH LIGHT
6161028		CHANNELIZER
6161030		TYPE III MOVEABLE BARRICADE
6161031		TYPE III MOVEABLE BARRICADE WITH LIGHT
6161033		DIRECTION INDICATOR BARRICADE
6161034		DIRECTION INDICATOR BARRICADE, WITH LIGHT
6161040	1	FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161051		WARNING LIGHT, TYPE A
6161052		WARNING LIGHT, TYPE B
6161053		WARNING LIGHT, TYPE C
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098	2	CHANGEABLE MESSAGE SIGN, CONTRACTOR FURNISHED/RETAINED
6161100		CHANGEABLE MESSAGE SIGN, CONTRACTOR FURNISHED/COMMISSION RETAINED
6173600D		CONTRACTOR FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER
6173602B		CONTRACTOR FURNISHED/COMMISSION RETAINED TEMPORARY TRAFFIC BARRIER
6174000A		TEMPORARY TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		COMMISSION FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER
6177000B		COMMISSION FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER HEIGHT TRANSITION
9019400		TEMPORARY LIGHTING
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

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DATE PREPARED
6/26/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	3

COUNTY
NEWTON

JOB NO.
J7P2201

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

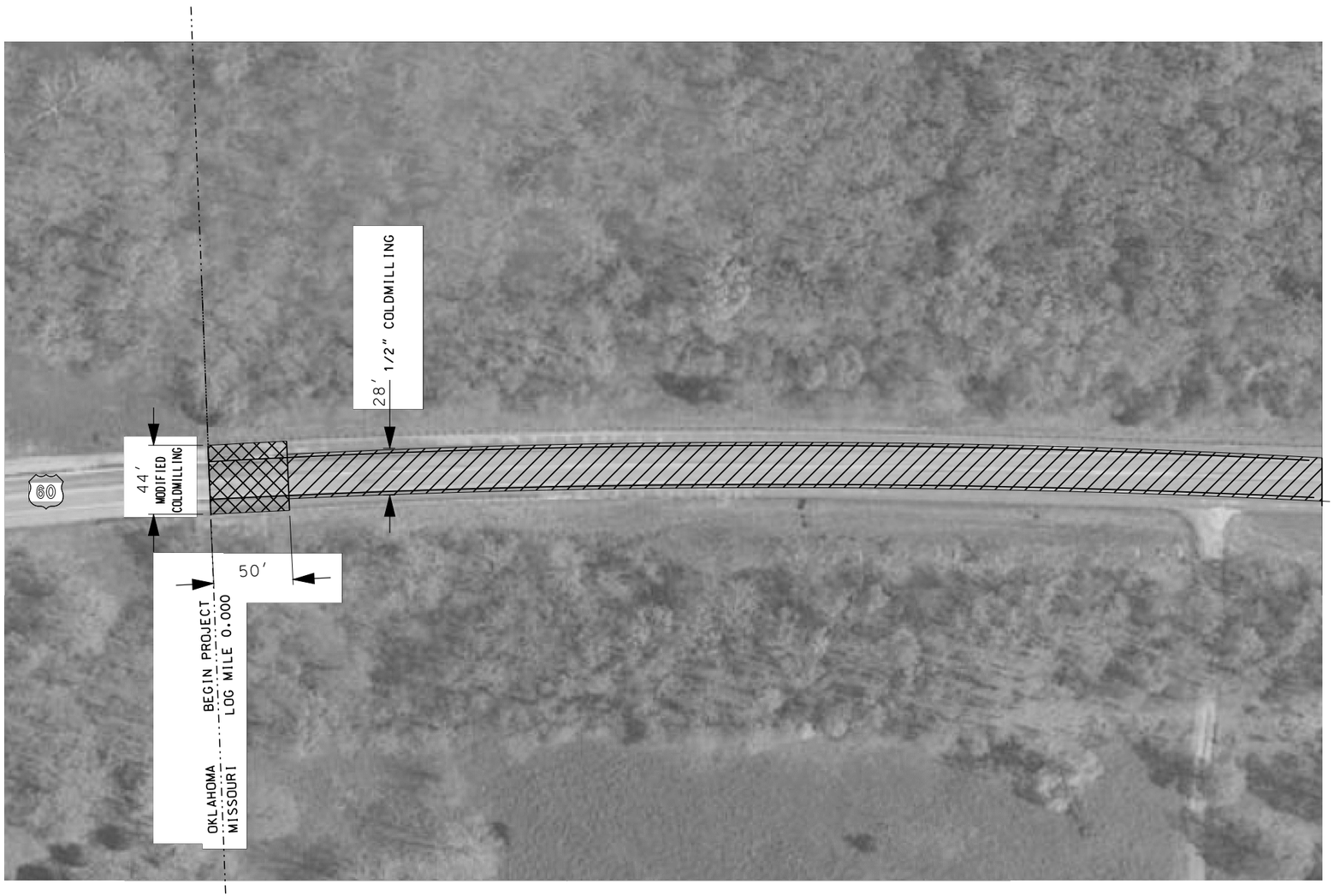
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SUMMARY SHEET
SHEET 4 OF 4

REV.

MODIFIED COLDMILLING AT BEGINNING OF PROJECT

$\frac{1}{2}$" COLDMILLING 28' WIDE



DRAWINGS NOT TO SCALE

SPECIAL SHEET
SHEET 1 OF 4

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

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DATE PREPARED
6/12/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	4

COUNTY
NEWTON

JOB NO.
J7P2201

CONTRACT ID.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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JEFFERSON CITY, MO 65102
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MODIFIED COLDMILLING AT MO 43



1/2" COLDMILLING 28' WIDE

DRAWINGS NOT TO SCALE

SPECIAL SHEET
SHEET 2 OF 4

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

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DATE PREPARED
6/12/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	5

COUNTY
NEWTON

JOB NO.
J7P2201

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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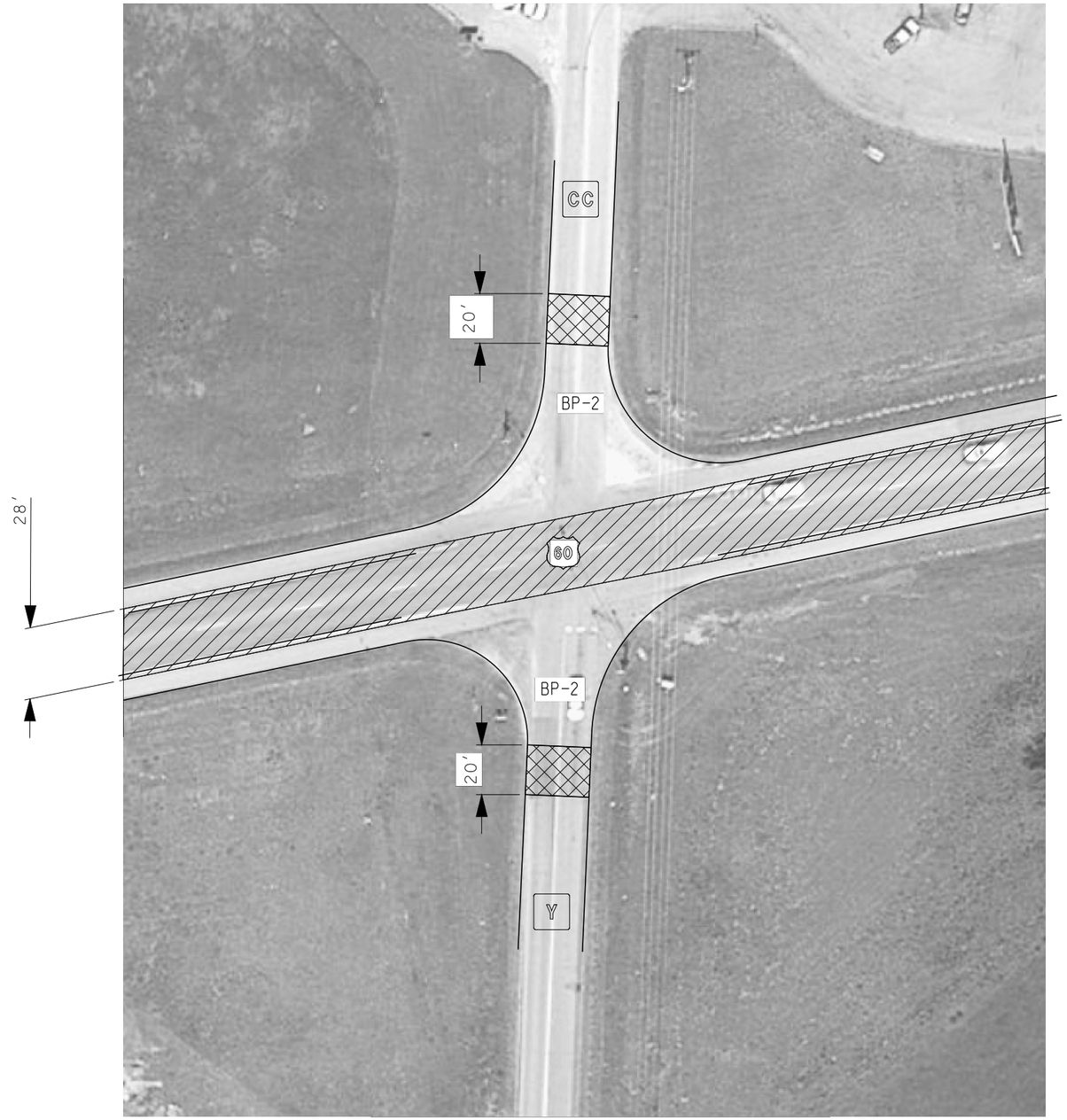
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

1/2" COLDMILLING 28' WIDE

MODIFIED COLDMILLING AT RTE CC & Y



B-2P

DRAWINGS NOT TO SCALE

SPECIAL SHEET
SHEET 3 OF 4

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

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DATE PREPARED
6/12/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	6

COUNTY
NEWTON

JOB NO.
J7P2201

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MODIFIED COLDMILLING PRIOR TO FULL DEPTH COLDMILLING AT END OF PROJECT



0.5 COLDMILL PRIOR TO FULL DEPTH COLDMILLING

1.5" COLDMILLING TO END OF PROJECT

COORDINATE THE END LIMITS AS NEEDED WITH PROJECTS J7P2178 AND J7P2179

DRAWINGS NOT TO SCALE

SPECIAL SHEET
SHEET 4 OF 4

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

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DATE PREPARED
6/12/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	7

COUNTY
NEWTON

JOB NO.
J7P2201

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

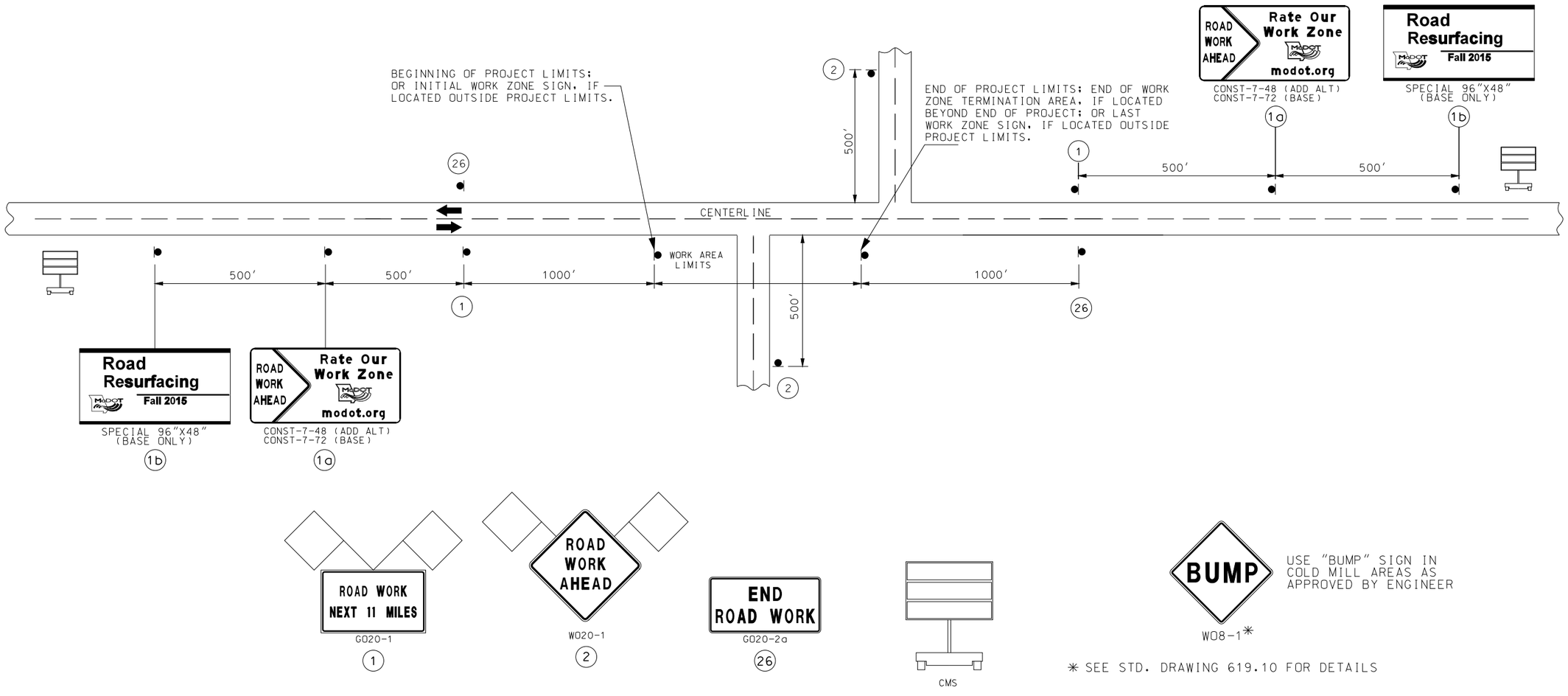
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

NOTES:

1. ANY EXIST. SIGNS THAT CONFLICT WITH TRAFFIC CONTROL PLAN SHALL BE COVERED.
2. TEMP. SIGNING SHOWN IS FOR WORK ON ONE SIDE OF THE ROAD. FOR WORK ON THE OTHER SIDE, REVERSE ORDER OF THE SIGNS AND CHANNELIZERS.
3. SIGNING SHOWN SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
4. ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER.
5. SEE STANDARD DRAWING 616.10, 619.10, AND 620.10 FOR ADDITIONAL DETAILS AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS.
6. SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE. PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT 1/2 MILE.
7. TEMPORARY SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED WHEN THE CONDITIONS REQUIRING REDUCED SPEEDS DO NOT EXIST.
8. NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, OR CONSTRUCTION SIGNS.
9. ALL SIGNS WITHIN THE FIRST ADVANCE WARNING AREA SHALL BE ENHANCED WITH FLAGS.
10. POINT OF PRESENCE (SPECIAL 96"X48") SIGN IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS. IF A VISIBLE LOCATION WITHIN THE PROJECT IS NOT AVAILABLE, THE SIGN MAY BE PLACED 500 FEET BEFORE CONST-7-72.
11. PORTABLE MOUNTED SIGNS ARE PAID FOR ON THE BASE PROJECT AND WILL BE USED ON THE ADD ALTERNATES. POST MOUNTED SIGNS ARE PAID FOR ON BOTH THE BASE PROJECT AND THE ADD ALTERNATE.



* SEE STD. DRAWING 619.10 FOR DETAILS

NOTES:

SIGN (1) IS ONLY USED ON PROJECT LENGTHS 2 MILES OR GREATER.

SIGN (26) MAY BE USED ON PROJECTS LESS THAN 2 MILES.

PROVIDE SIGNS IN EACH DIRECTION ON TWO-WAY HIGHWAY.

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

FLAGS WILL NOT BE REQUIRED ON SIGN (2) LOCATED ON SIDE ROADS.

TRAFFIC CONTROL
SHEET 1 OF 5

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

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DATE PREPARED	
6/12/2014	
ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	8
COUNTY	
NEWTON	
JOB NO.	
J7P2201	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
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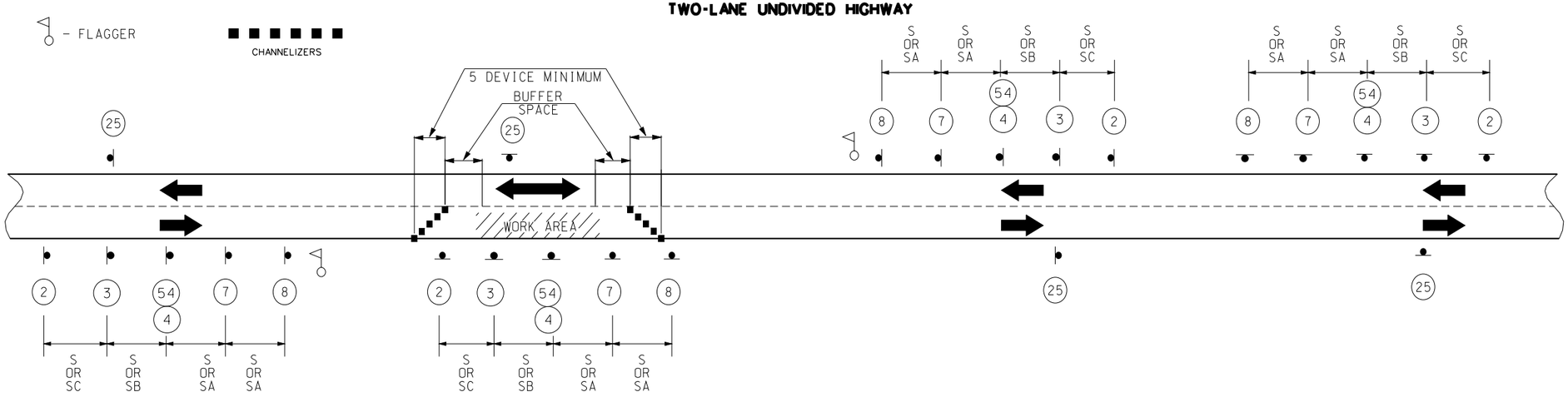
1-888-ASK-MODOT (1-888-275-6636)

REV.

TWO-WAY SINGLE LANE RESURFACING OPERATION
TWO-LANE UNDIVIDED HIGHWAY



SIGN SETS 1 AND 3 ARE ACTIVE AND (I.E., SIGNS FACE ONCOMING TRAFFIC).

SIGN SETS 2 AND 4 ARE INACTIVE (I.E., SIGNS DO NOT FACE EITHER DIRECTION OF TRAFFIC) WHEN THE RESURFACING OPERATION IS LOCATED BETWEEN SIGN SETS 1 AND 3.

WHEN SIGN SETS 2 AND 4 ARE ACTIVE, SIGN SETS 1 AND 3 BECOME INACTIVE AND ARE ADVANCED TO BECOME SETS 2 AND 4 WITH SIGN LEGENDS TURNED AWAY FROM BOTH DIRECTIONS OF TRAFFIC. WHEN THE RESURFACING OPERATION ADVANCES TO BETWEEN SIGN SETS 2 AND 4, SIGN SETS 2 AND 4 BECOME ACTIVE (I.E., NEW SIGN SETS 1 AND 3) AND SIGN SETS 1 AND 3 ADVANCED IN THE DIRECTION OF THE OPERATION (I.E., NEW SIGN SETS 2 AND 4).

SIGNS 3 AND 4 ARE OPTIONAL FOR THIS SET UP AND WILL BE PLACED ACCORDINGLY. SIGN 3 WILL ONLY BE USED WHERE SIGN 4 IS GREATER THAN 10 MPH BELOW THE POSTED SPEED OF SIGN 25

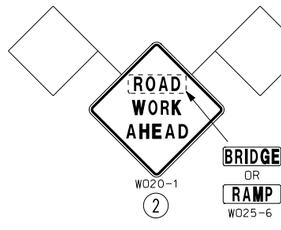
SIGNS ARE PROVIDED FOR AN ESTIMATED 4 MILES OF WORK (ESTIMATED 1 DAYS AMOUNT OF WORK). ALL OTHER SIGNS ARE INDENTAL TO THE PROJECT AND NO COST TO MODOT.

USE BEGIN/END PROJECT SIGNING SHEET DAYLIGHT FLAGGING OPERATIONS ONLY.

NO DIRECT PAYMENT WILL BE MADE FOR CONES, OR FOR THE RELOCATION OF CHANNELIZERS AS SHOWN ON THE PLANS. CONES ALLOWABLE FOR DAYLIGHT OPERATIONS ONLY.

CHANNELIZING DEVICES LOCATED DOWNSTREAM OF THE ONE-LANE, TWO-WAY TAPER ARE OPTIONAL. THESE DEVICES SHOULD BE ELIMINATED WHEN THEIR USE WILL REDUCE THE USABLE LANE WIDTH, INCLUDING ANY ACCEPTABLE SHOULDERS, TO LESS THAN 10'OR WILL SIGNIFICANTLY AFFECT THE RESURFACING OPERATION.

FLAG ASSEMBLIES FOR SIGNS WILL BE PAID FOR AS EACH PER SIGN. EXCEPT FOR SIGN W020-7 WHICH IS SUBSIDIARY TO THE SIGN.



W020-1 (2)



W020-4 (7)


W020-7a (8)



(NORMAL SPEED) R2-1 (25)



SPECIAL (53)



G020-4 (58)

(1) SIGN 53 "PILOT CAR FOLLOW ME" SHALL BE IN CONTRACTOR'S RESPONSIBILITY WHEN IN USE DURING CONSTRUCTION.

(2) SIGN 58 SHALL BE PLACED AT ALL SIDE ROADS. 150' FROM INTERSECTION

SIGN SPACING FOR ADVANCE SIGN SERIES (2) (3)		
SPEED (1) MPH	NON-DIVIDED HIGHWAYS	DIVIDED HIGHWAYS
0 - 35	200	200
40 - 45	350	500
50 - 55	500	1000
60 - 70	SA - 1000 FT. SB - 1500 FT. AND SC - 2640 FT.	

NOTES:

DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.

(1) POSTED SPEED LIMIT PRIOR TO ROAD WORK.

(2) SPACING BETWEEN SIGNS, BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER OR SIGNED CONDITION.

(3) SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

SPEED MPH	SHOULDER TAPER LENGTH (ft)	OPTIONAL BUFFER LENGTH (ft)
0-35	70 FT	250 FT
40-45	150 FT	360 FT
50-55	185 FT	495 FT
60-70	235 FT	730 FT



W03-5 (3)



(REDUCED SPEED) R2-1 (4)



G023-1 (54)

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES					
SPEED MPH (S)	MINIMUM TAPER LENGTHS (L) FOR LATERAL SHIFTS (W)			MAXIMUM CHANNELIZER SPACING	
	10 FT	11 FT	12 FT	THROUGH TAPER	THROUGH WORK AREA
0-35	205FT	225FT	245FT	35FT	50FT
40-45	450FT	495FT	540FT	40FT	100FT
50-55	550FT	605FT	660FT	50FT	100FT
60-70	700FT	770FT	840FT	60FT	100FT

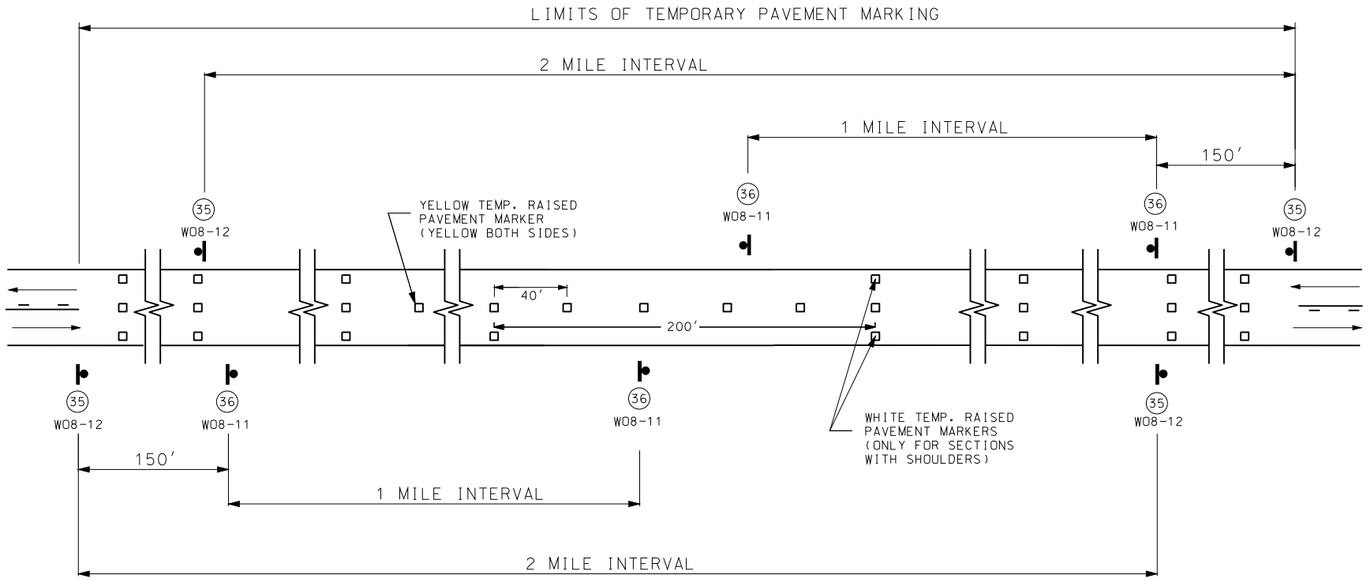
STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 6/12/2014
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. 9
COUNTY NEWTON
JOB NO. J7P2201
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

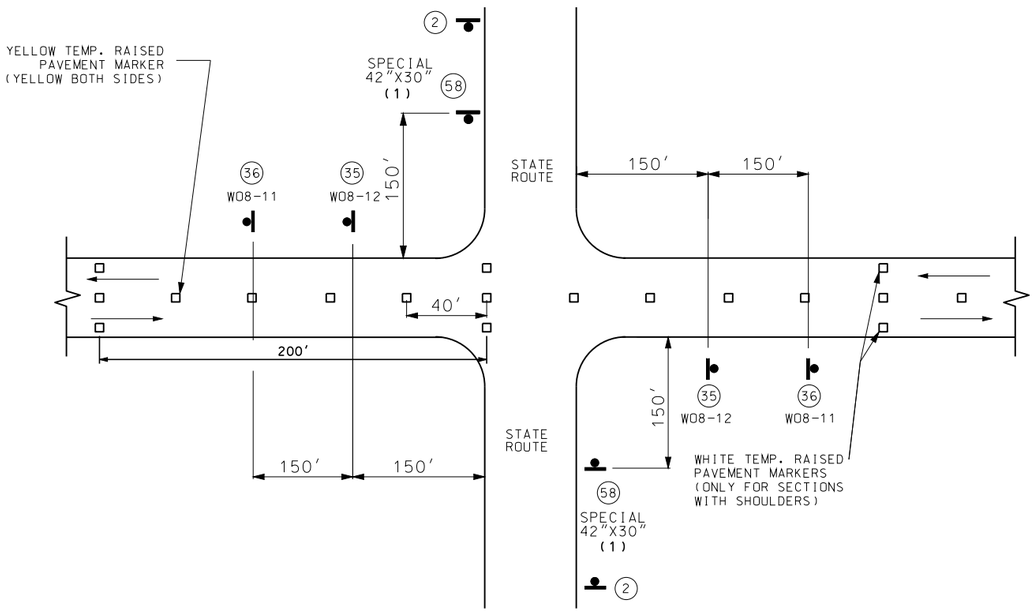
DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

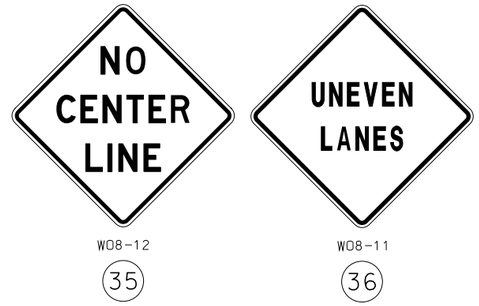
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

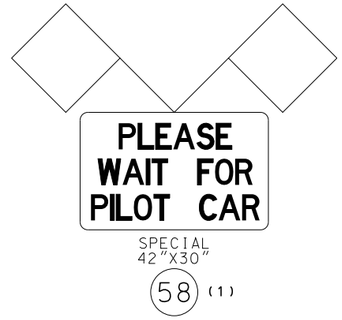


SIGN SPACING FOR MAINLINE



SIGN SPACING AT STATE ROUTE INTERSECTIONS





(1) ADDITIONAL SIDEROADS MAY BE SIGNED AS APPROVED BY THE ENGINEER.

NOTES:

SIGN (35) AND TEMPORARY PAVEMENT MARKING INSTALLED WHERE CENTERLINE STRIPING HAS BEEN COVERED OR REMOVED. SIGNS ARE TO REMAIN IN PLACE UNTIL THE PERMANENT CENTERLINE PAVEMENT MARKINGS ARE IN PLACE. SIGNS SHALL BE COVERED OR REMOVED WHEN PAVEMENT CENTERLINE MARKING HAS BEEN INSTALLED.

SIGN (35) IS PLACED AT APPROXIMATELY TWO-MILE INTERVALS AND AT STATE ROUTE JUNCTIONS. WHEN THE INSTALLATION AT A JUNCTION IS WITHIN ONE-EIGHTH MILE OF THE NORMAL MAINLINE SIGN (35), THE LATTER MAY BE ELIMINATED.

ALL SIGNS THAT ARE POST MOUNTED SHALL BE IN ACCORDANCE WITH STANDARD PLAN 616.10 AND 903.03.

TEMPORARY RAISED PAVEMENT MARKERS SHALL BE INSTALLED BY THE END OF EACH DAY.

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 6/12/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	10

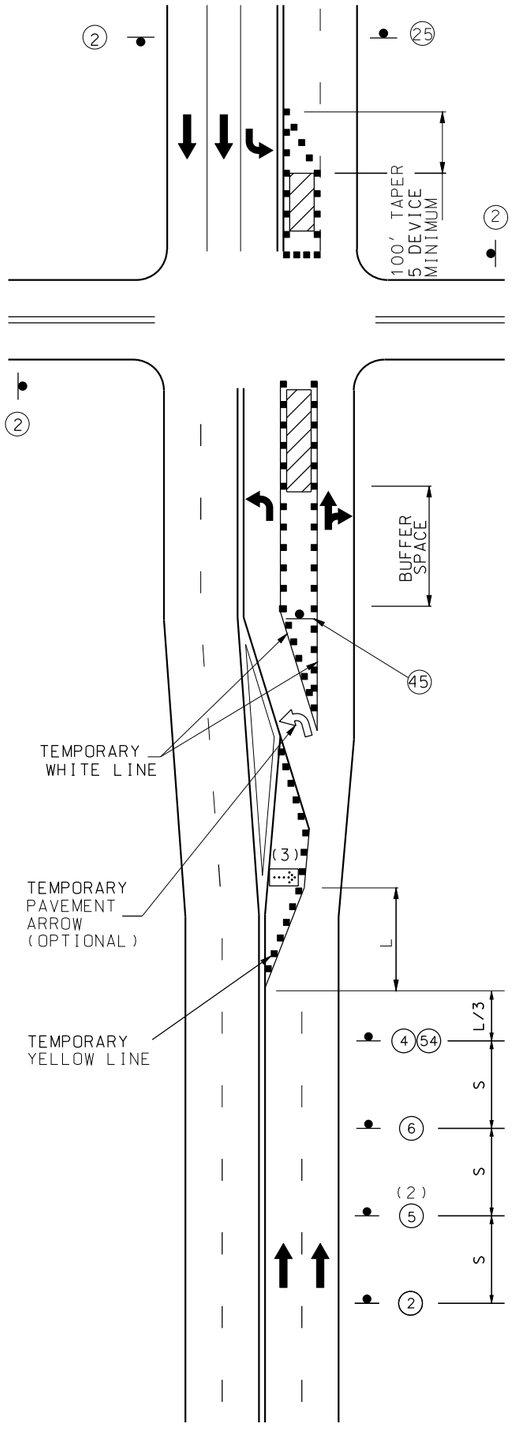
COUNTY: NEWTON
JOB NO.: J7P2201
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

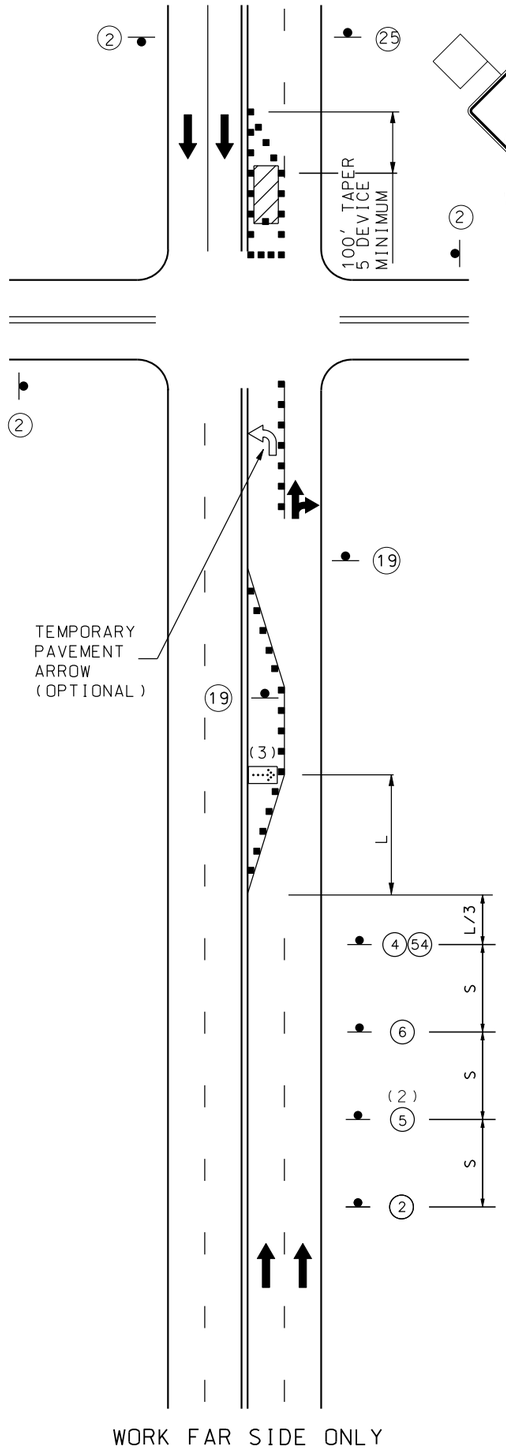
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

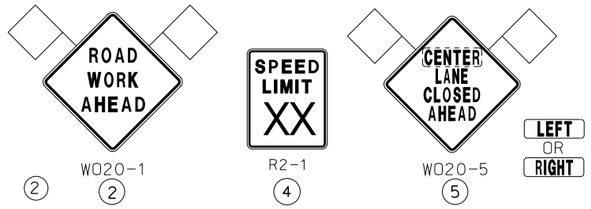
REV.



WORK ON NEAR
OR FAR SIDE



WORK FAR SIDE ONLY



FLASHING
ARROW PANEL

CHANNELIZERS (1)

NOTES:

FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING, TIMING, INDICATIONS OR DETECTOR SETTINGS.

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

FOR SHORT TERM OPERATIONS, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, A 10' DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKING. ALL OTHER SPACINGS ARE ONE HALF OF THE SPACING SHOWN IN TABLE.

(1) CONES ALLOWABLE FOR DAYLIGHT OPERATIONS ONLY.

(2) SIGN (5) MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR THE FULL SIGN SERIES.

(3) THE FLASHING ARROW BOARD SHOULD BE LOCATED AT THE BEGINNING OF THE MERGING TAPER WHEN MEDIAN WIDTH ALLOWS ROOM.

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES						
SPEED MPH (P)	MINIMUM TAPER LENGTHS (L) FOR LATERAL SHIFTS (W)			MAXIMUM CHANNELIZER SPACING		BUFFER LENGTH
	10 FT	11 FT	12 FT	THROUGH TAPER	THROUGH WORK AREA	
0-35	205 FT	225 FT	245 FT	35 FT	50 FT	250FT
40-45	450 FT	495 FT	540 FT	40 FT	100 FT	360FT
50-55	550 FT	605 FT	660 FT	50 FT	100 FT	495FT
60-70	700 FT	770 FT	840 FT	60 FT	100 FT	730FT

SIGN SPACING FOR ADVANCE SIGN SERIES SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION. SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.		
SPEED MPH (P)	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200 FT	200 FT
40-45	350 FT	500 FT
50-55	500 FT	1000 FT
60-70	SA-1000 FT, SB-1500 FT, SC-2640 FT	

TAPER LENGTH (L)

L = W x P FOR 40 MPH OR MORE

L = $\frac{WP^2}{60}$ FOR 35 MPH OR LESS

L = TAPER LENGTH IN FEET

W = LATERAL SHIFT IN FEET

P = POSTED SPEED PRIOR TO ROAD WORK IN MPH

LEFT LANE CLOSURE AT INTERSECTION - NOT TO SCALE

TRAFFIC CONTROL PLAN
SHEET 4 OF 5

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 6/12/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	11

COUNTY NEWTON

JOB NO. J7P2201

CONTRACT ID.

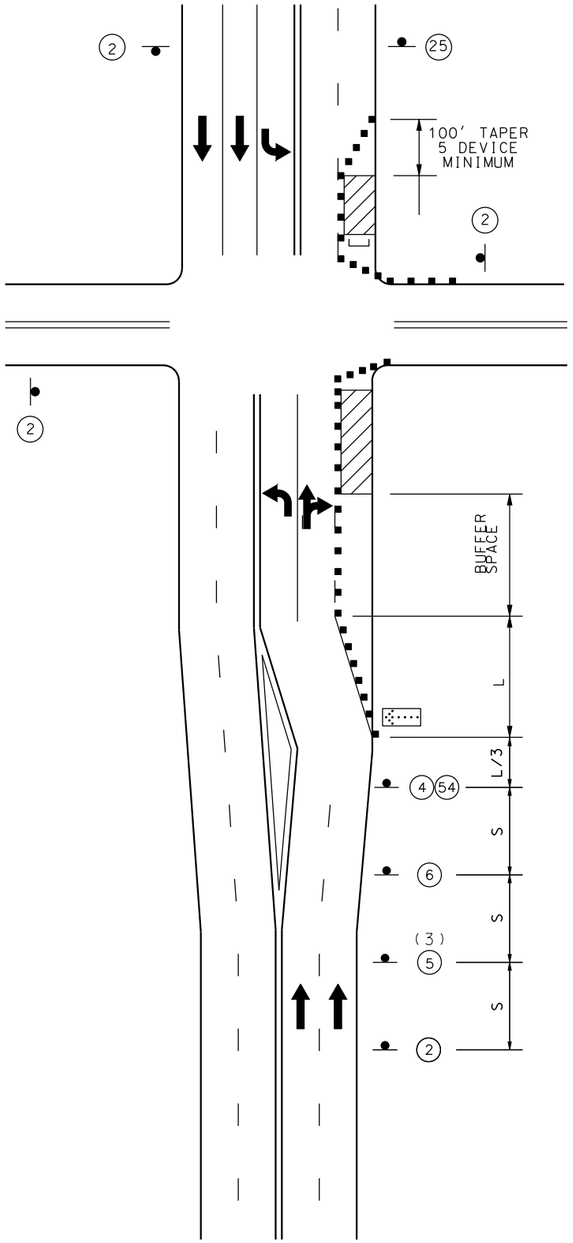
PROJECT NO.

BRIDGE NO.

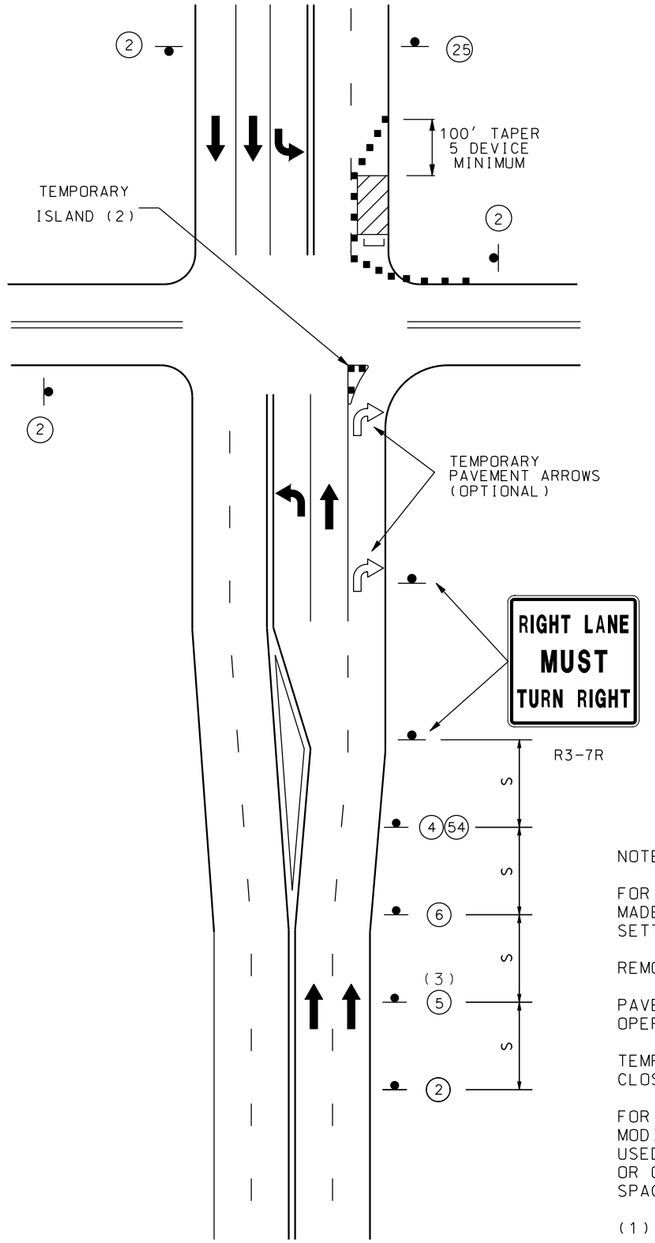
DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



Work On Near Or Far Side



Work On Far Side Only (1)

RIGHT LANE CLOSURE AT INTERSECTION - NOT TO SCALE

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES						
SPEED MPH (P)	MINIMUM TAPER LENGTHS (L) FOR LATERAL SHIFTS (W)			MAXIMUM CHANNELIZER SPACING		BUFFER LENGTH
	10 FT	11 FT	12 FT	THROUGH TAPER	THROUGH WORK AREA	
0-35	205 FT	225 FT	245 FT	35 FT	50 FT	250FT
40-45	450 FT	495 FT	540 FT	40 FT	100 FT	360FT
50-55	550 FT	605 FT	660 FT	50 FT	100 FT	495FT
60-70	700 FT	770 FT	840 FT	60 FT	100 FT	730FT

SIGN SPACING FOR ADVANCE SIGN SERIES		
SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION. SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.		
SPEED MPH (P)	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200 FT	200 FT
40-45	350 FT	500 FT
50-55	500 FT	1000 FT
60-70	SA-1000 FT, SB-1500 FT, SC-2640 FT	

TAPER LENGTH (L)

L = W x P FOR 40 MPH OR MORE

$L = \frac{WP^2}{60}$ FOR 35 MPH OR LESS

L = TAPER LENGTH IN FEET

W = LATERAL SHIFT IN FEET

P = POSTED SPEED PRIOR TO ROAD WORK IN MPH



W020-1
(2)



R2-1
(4)



W020-5
(5)

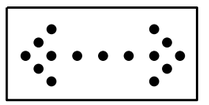


W020-6a
(6)

(NORMAL SPEED)
R2-1
(25)



G020-5aP
(54)



FLASHING
ARROW PANEL

CHANNELIZERS

NOTES:

FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING, TIMING, INDICATIONS OR DETECTOR SETTINGS.

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

FOR SHORT TERM OPERATIONS, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, A 10' [3 m] DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKING. ALL OTHER SPACINGS ARE ONE HALF OF THE SPACING SHOWN IN TABLE.

(1) THIS FIGURE ONLY APPLIES WHERE A SIGNIFICANT PERCENTAGE OF THE APPROACH VOLUME TURNS RIGHT.

(2) TEMPORARY ISLAND MAY BE USED TO EMPHASIZE THE MANDATORY RIGHT TURN MOVEMENT WHERE THERE IS A SUFFICIENT RIGHT TURN RADIUS.

(3) SIGN 5 MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR THE FULL SIGN SERIES.

TRAFFIC CONTROL PLAN
SHEET 5 OF 5

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 6/12/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	12

COUNTY NEWTON

JOB NO. J7P2201

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

DESIGN DESIGNATION

A.A.D.T. - 2015 = 5278 - 18539

T = 13.9%

V = 45 - 60 M.P.H.

FUNCTIONAL CLASSIFICATION - MAJOR ARTERIAL

NO NEW R.O.W. REQUIRED

CONVENTIONAL SYMBOLS
(USED IN PLANS)

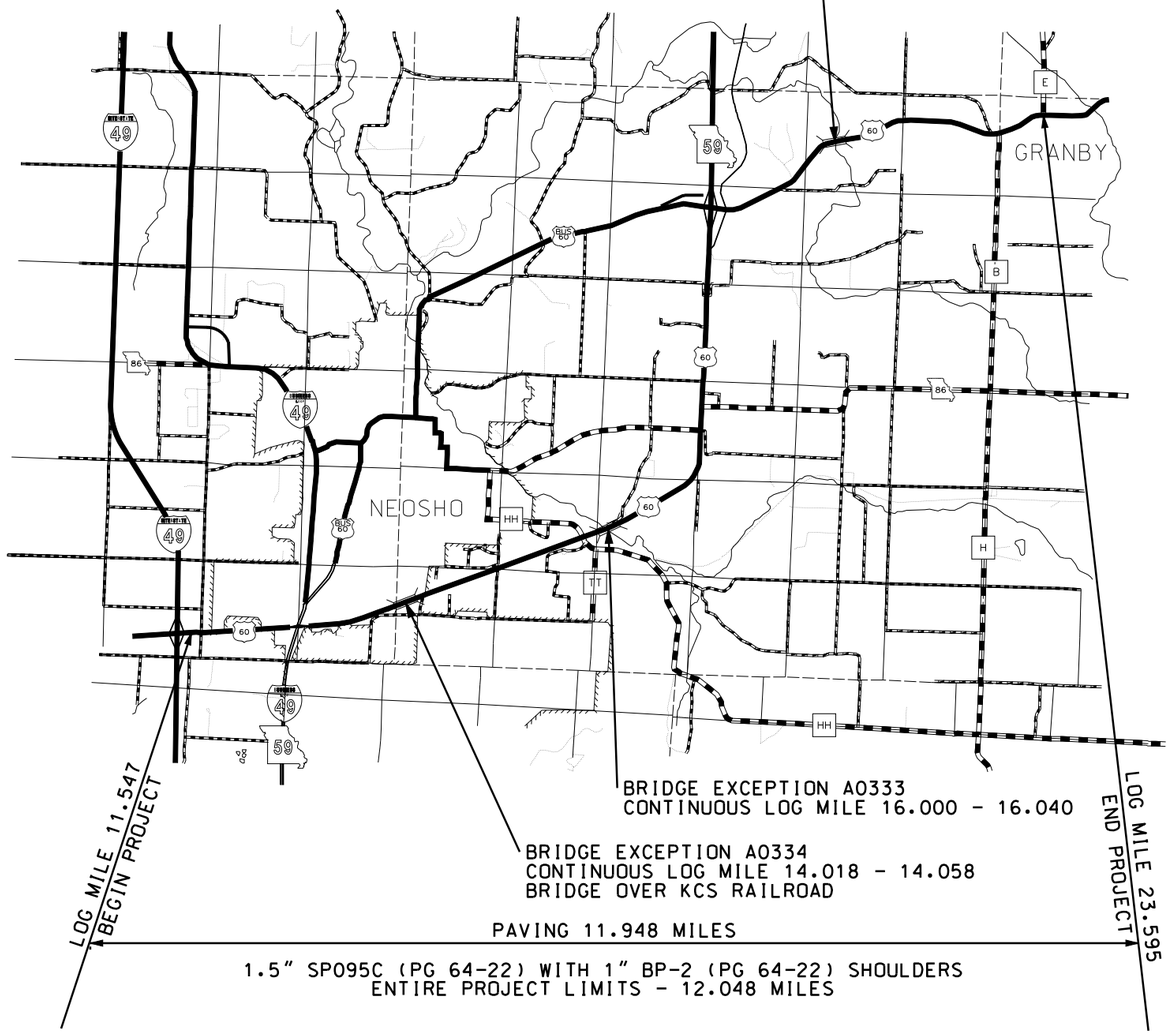
	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	-FO-
OVERHEAD TELEPHONE		
UNDERGROUND TELEPHONE	-T-	-T-
OVERHEAD POWER		
UNDERGROUND POWER	-P-	-P-
GAS	-G-	-G-
WATER	-W-	-W-
MANHOLE	SAN	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
DROP INLET	D	
DITCH BLOCK		
GROUND MOUNTED SIGN	SIGN	
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL	PED	
FENCE		
CHAIN LINK	-V-	
WOVEN WIRE	-X-	
GATE POST		
BENCHMARK	BM	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY

NEWTON COUNTY

BRIDGE EXCEPTION A4532
CONTINUOUS LOG MILE 21.310 - 21.330



INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (3 SHEETS)	2
QUANTITIES (QU) (8 SHEETS)	3
SPECIAL SHEETS (SS)	4-9
TRAFFIC CONTROL SHEETS (TC)	10-14

LENGTH OF PROJECT

BEGINNING OF PROJECT	LOG MILE 11.547	
END OF PROJECT	LOG MILE 23.595	
APPARENT LENGTH	63613.44	FEET
EQUATIONS AND EXCEPTIONS:		
BRIDGE EXCEPTION A0334: LOG MILE 14.018 - 14.058	211.20	FEET
BRIDGE EXCEPTION A0333: LOG MILE 16.000 - 16.040	211.20	FEET
BRIDGE EXCEPTION A4532: LOG MILE 21.310 - 21.330	105.6	FEET
TOTAL CORRECTIONS	528.00	FEET
NET LENGTH OF PROJECT	63085.44	FEET
STATE LENGTH	11.948	MILES

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/2/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	1

COUNTY: NEWTON
JOB NO.: J7P2202
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

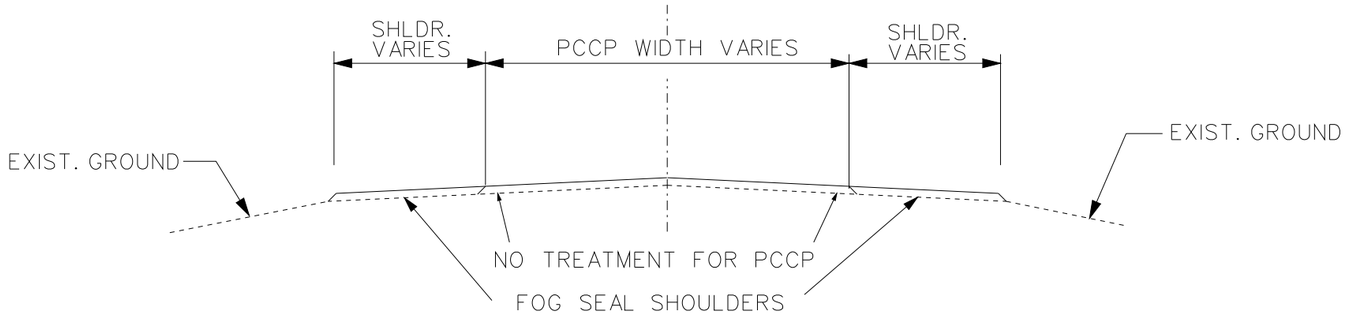
DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.

$FILE$ $TIME$ 7/2/2014

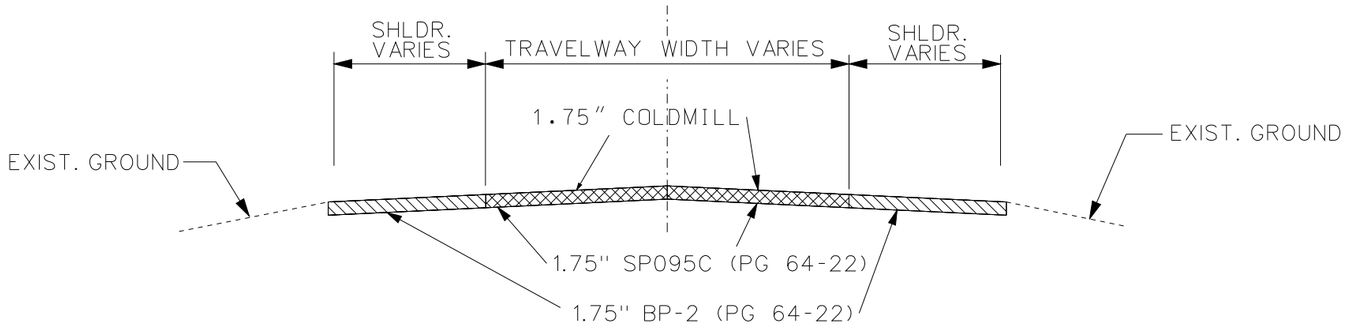


ROUTE 60

LOG MI. 11.556 TO LOG MI. 11.678 (10' SHOULDER WIDTH)
LOG MI. 11.678 TO LOG MI. 11.778 (KODIAK RD. INTERSECTION)
LOG MI. 11.778 TO LOG MI. 11.923 (10' SHOULDER WIDTH)
LOG MI. 11.923 TO LOG MI. 12.396 (20' SHOULDER WIDTH)
LOG MI. 12.396 TO LOG MI. 12.697 (10' SHOULDER WIDTH)

TACK RATE
0.08 GAL/SY

PAVEMENT FACTORS		
	SP095C	BP-2
	TONS/CY	TONS/CY
COMBINED FACTOR	1.945	1.978
% AC	5.6	5.3



ROUTE 60

LOG MI. 12.697 - LOG MI. 12.817 (59 AND 60 INTERSECTION)
LOG MI. 13.477 - LOG MI. 13.731 (HIGH ST. INTERSECTION)
LOG MI. 23.515 - LOG MI. 23.595 (CURB AND GUTTER THROUGH GRANBY)

TYPICAL SECTION
SHEET 1 OF 3

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 6/11/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	2

COUNTY: NEWTON
JOB NO.: J7P2202
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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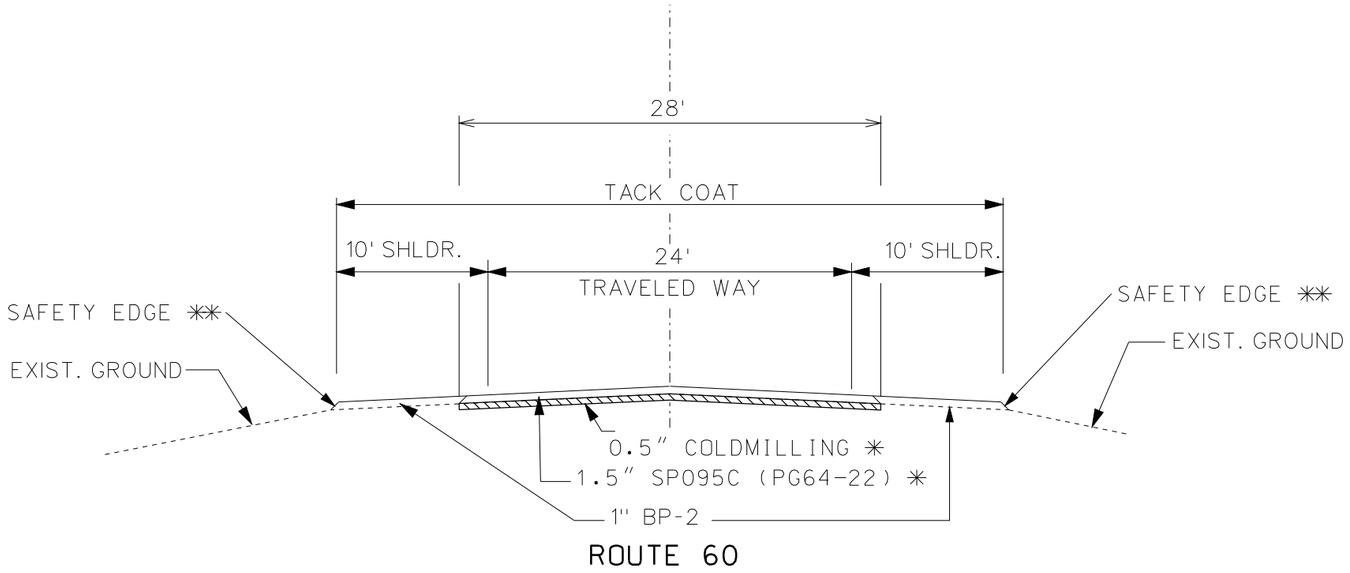
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



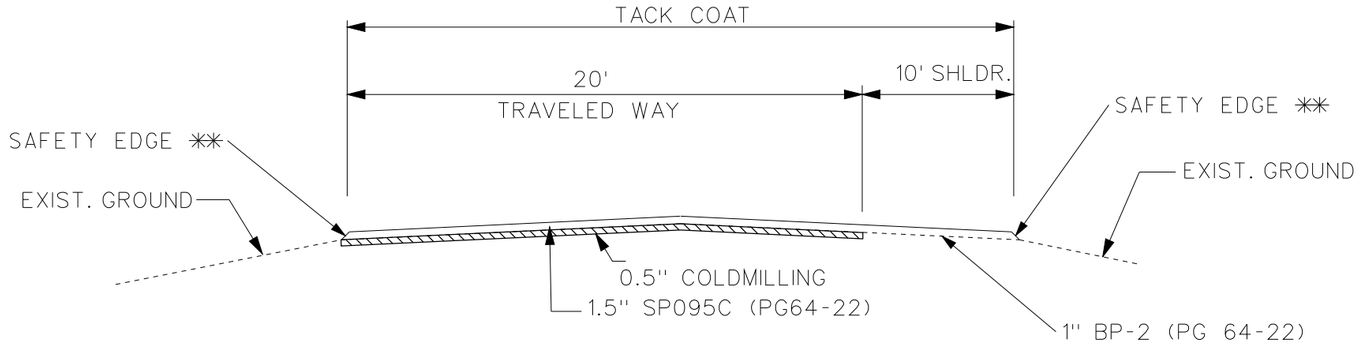
ROUTE 60

LOG MI. 12.817 TO LOG MI. 13.477
LOG MI. 13.731 TO LOG MI. 14.018
BRIDGE EXCEPTION A0334 LOG MI. 14.018 TO LOG MI. 14.058
LOG MI. 14.058 TO LOG MI. 16.000
BRIDGE EXCEPTION A0333 LOG MI. 16.000 TO LOG MI. 16.040
LOG MI. 16.040 TO LOG MI. 19.643
LOG MI. 19.843 TO LOG MI. 21.310
BRIDGE EXCEPTION A4532 LOG MI. 21.310 TO LOG MI. 21.330
LOG MI. 21.330 TO LOG MI. 23.515

* FULL 44' WIDTH
FROM LOG MI. 14.779 TO LOG MI. 14.899 (CEMETARY RD. INTER.)
FROM LOG MI. 15.700 TO LOG MI. 15.820 (RTE. HH INTER.)

* FULL 42' WIDTH
FROM LOG MI. 17.782 TO LOG MI. 17.881 (RTE. 86 INTER.)

** SEE TYPICAL SECTION SHEET 3 OF 3 FOR SAFETY EDGE DETAIL



59 NB EXIT RAMP AND 59 SB ENTRANCE RAMP

LOG MI. 19.643 TO LOG MI. 19.843

TYPICAL SECTION
SHEET 2 OF 3

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 6/11/2014
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. 2
COUNTY NEWTON
JOB NO. J7P2202
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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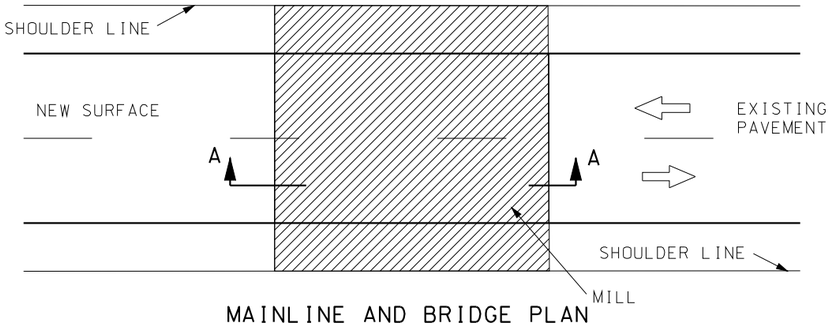
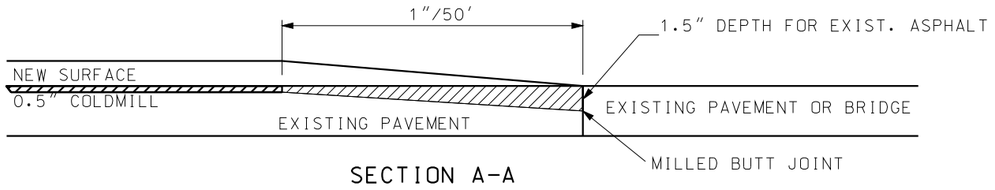
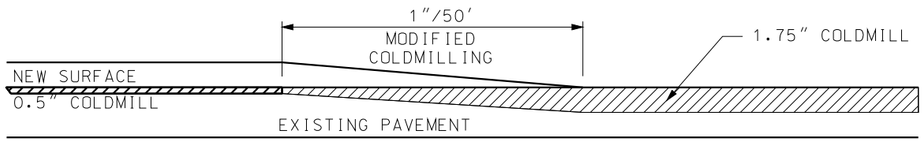


MAINLINE AND BRIDGE PLAN



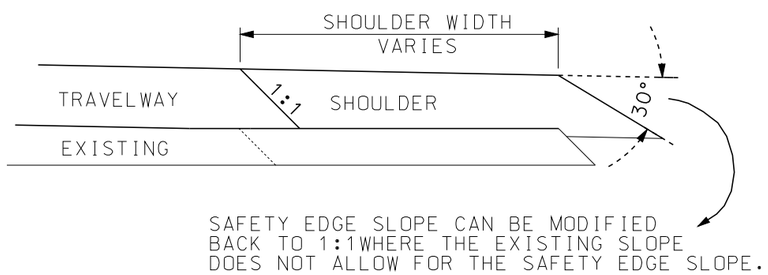
SECTION A-A

TRANSVERSE JOINT TRANSITION FOR SINGLE LIFT PROJECT BEGINNING, END, RAMP OR BRIDGE

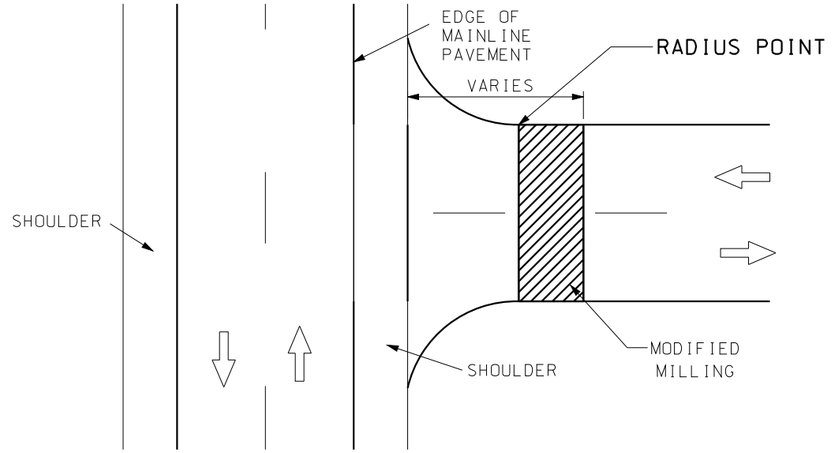


SECTION A-A

TRANSITION FROM 0.5" COLDMILLING TO 1.75" COLDMILLING

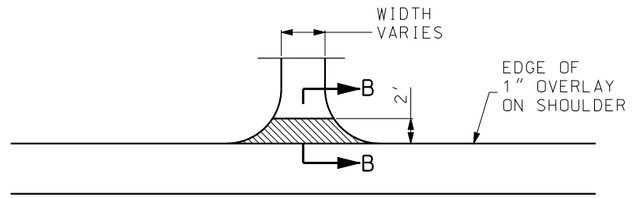


SAFETY EDGE SLOPE DETAIL

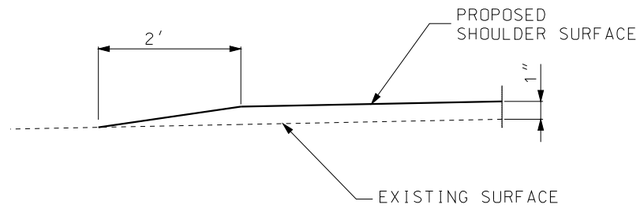


MODIFIED MILLING VARIES
FROM THE RADIUS POINT:
1" ASPHALT = 20' TRANSITION
1 ¼" ASPHALT = 30' TRANSITION
1 ¾" ASPHALT = 50' TRANSITION

SURFACING REQUIREMENTS FOR OVERLAYS AT STATE ROADS



TYPICAL ENTRANCE
(FIELD, PRIVATE OR COUNTY ROAD)



SECTION B-B

PAVEMENT DEPTH TRANSITION

TYPICAL SECTION
SHEET 3 OF 3

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 6/11/2014
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. 2
COUNTY NEWTON
JOB NO. J7P2202
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

1.5" ASPHALTIC CONCRETE PAVEMENT - SP095C (PG 64-22)						
BEGIN LOG MILE	END LOG MILE	LENGTH LF	AVERAGE WIDTH LF	OVERLAY TONS	TACK GAL	REMARKS
12.817	13.357	2851.2	28	718.9	710	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
13.357	13.417	316.8	36	102.7	101	OAK RIDGE DR.
13.417	13.477	316.8	40	114.1	113	OAK RIDGE DR.
13.731	13.777	242.9	40	87.5	86	HIGH STREET
13.777	13.831	285.1	32	82.2	81	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
13.831	14.018	987.4	28	248.9	246	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
14.018	14.058	211.2				BRIDGE EXCEPTION A0334
14.058	14.719	3490.1	28	880.0	869	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
14.719	14.779	316.8	34	97.0	96	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
14.779	14.899	633.6	44	251.0	248	CEMETERY RD., EOS TO EOS
14.899	14.959	316.8	34	97.0	96	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
14.959	15.620	3490.1	28	880.0	869	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
15.620	15.700	422.4	34	129.3	128	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
15.700	15.820	633.6	44	251.0	248	RTE HH INTERSECTION
15.820	15.900	422.4	34	129.3	128	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
15.900	16.000	528.0	28	133.1	131	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
16.000	16.040	211.2				BRIDGE EXCEPTION A0333
16.040	17.721	8875.7	28	2237.8	2209	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
17.721	17.782	322.1	34	98.6	97	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
17.782	17.881	522.7	40	188.3	186	RTE 86, EOS TO EOS
17.881	17.941	316.8	34	97.0	96	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
17.941	19.423	7825.0	28	1972.9	1948	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
19.423	19.463	211.2	34	64.7	64	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
19.463	19.503	211.2	40	76.1	75	RTE 59 AND 60 INTERSECTION
19.503	19.543	211.2	46	87.5	86	RTE 59 AND 60 INTERSECTION
19.543	19.643	528.0	44	209.2	207	12' LANES TRAVEL LANES, 14' RAMP
		961.0	28	242.3	239	CONTINUE TO BRIDGE A3955
19.643	19.843	1056.0	20	190.2	188	EXIT RAMP
19.843	21.310	7745.8	28	1952.9	1928	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
21.310	21.330	105.6				BRIDGE EXCEPTION A4532
21.330	23.515	11536.8	28	2908.8	2871	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
			20	318.3	291	SB ENTRANCE RAMP
				26.0	26	NB EXIT RAMP TRANSITION
				36.2	36	NB ENTRANCE RAMP TRANSITION
				24.3	24	SB ENTRANCE RAMP TRANSITION
				40.1	40	SB EXIT RAMP TRANSITION
				296.4	293	LANES UNDER 59 (WIDER THAN MARKED TRAVELWAY)
				25.1	38	RTE 86 WEST
				34.7	50	RTE 86 EAST
			SUBTOTAL 5	15329.3	15140	
			SUBTOTAL 4	1353.7	1145	1.75" SP095C
			SUBTOTAL	538.9		IRREGULARITIES ONLY, MAY BE UNDERRUN
					8090	TACK FOR 1" BP-2
			USE	17222.0	24380	
SP095C ESTIMATED AT 1.945 TONS PER CUBIC YARD						
TACK ESTIMATED AT 0.08 GALLONS PER SQUARE YARD						
5.6% ASPHALT CONTENT						
IRREGULARITIES FIGURED AT 50 TONS PER MILE						

1.75" ASPHALTIC CONCRETE PAVEMENT - SP095C (PG 64-22)							
BEGIN LOG MILE	END LOG MILE	LENGTH LF	WIDTH LF	AREA SY	OVERLAY TONS	TACK GAL	REMARKS
12.679	12.817			5773.3	545.9	462	RTE 59 AND 60 INTERSECTION 1.75" MILL AND FILL
13.477	13.557	422.4	52.0		230.7	195	OAK RIDGE DR.
13.557	13.731	918.7	46.0		444.0	376	HIGH STREET
23.515	23.595	422.4	30.0		133.1	113	CURB AND GUTTER EAST OF RTE E IN GRANBY
			SUBTOTAL 4		1353.7	1145	

SHOULDER RUMBLE STRIPS				
BEGIN LOG MILE	END LOG MILE	LENGTH STA (RT)	LENGTH STA (LT)	REMARKS
11.547	14.078			LESS THAN 50MPH EXCEPTION
14.078	16.000	101.5	101.5	
16.000	16.040			BRIDGE A0333 EXCEPTION
16.040	21.030	263.5	263.5	
21.310	21.330			BRIDGE A4532 EXCEPTION
21.330	22.471	60.2	60.2	
22.471	23.595			LESS THAN 50MPH EXCEPTION
		-81.9	-77.8	ENTRANCES EXCEPTION
	TOTAL	343.3	347.4	
	USE	690.7		

CENTERLINE RUMBLE STRIPS			
BEGIN LOG MILE	END LOG MILE	LENGTH STA	REMARKS
11.547	14.078		LESS THAN 50MPH EXCEPTION
14.078	16.000	101.5	
16.000	16.040		BRIDGE A0333 EXCEPTION
16.040	21.030	263.5	
21.310	21.330		BRIDGE A4532 EXCEPTION
21.330	22.471	60.2	
22.471	23.595		LESS THAN 50MPH EXCEPTION
		-52.1	ENTRANCES EXCEPTION
	TOTAL	373.1	
	USE	373.1	

MOBILIZATION
TOTAL = 1 LUMP SUM

CONTRACTOR SURVEYING AND STAKING
TOTAL = 1 LUMP SUM

WORK ZONE LIGHTING
TOTAL = 1 LUMP SUM

SUMMARY SHEET
SHEET 1 OF 8

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 6/16/2014
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY NEWTON
JOB NO. J7P2202
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

1" BP-2 (PG 64-22) SHOULDERS						
BEGIN LOG MILE	END LOG MILE	LENGTH LF	WIDTH LF	OVERLAY TONS	TACK GAL	REMARKS
12.817	13.357	2851.2	16.0	278.5	406	10' SHOULDERS
13.357	13.397	211.2	12.0	15.5	23	TRANSITION FROM 10' SHOULDER TO NONE
13.397	13.777	2006.4				NO SHOULDER THROUGH INTERSECTION
13.777	13.831	285.1	12.0	20.9	30	TRANSITION BACK TO 10' SHOULDERS
13.831	14.018	987.4	16.0	96.4	140	10' SHOULDERS
14.018	14.058	211.2				BRIDGE EXCEPTION A0333
14.058	14.719	3490.1	16.0	340.9	496	10' SHOULDERS
14.719	14.779	316.8	8.0	15.5	23	TRANSITION FROM 10' SHOULDER TO NONE
14.779	14.899					CEMETERY ROAD INTERSECTION
14.899	14.959	316.8	8.0	15.5	23	TRANSITION BACK TO 10' SHOULDERS
14.959	15.620	3490.1	16.0	340.9	496	10' SHOULDERS
15.620	15.700	422.4	8.0	20.6	30	TRANSITION FROM 10' SHOULDERS TO NONE
15.700	15.760			14.9	22	RTE HH INTERSECTION NORTH
15.760	15.820			22.6	33	RTE HH INTERSECTION SOUTH
15.820	15.900	422.4	8.0	20.6	30	TRANSITION BACK TO 10' SHOULDERS
15.900	16.000	528.0	16.0	51.6	75	10' SHOULDERS
16.000	16.040	211.2				BRIDGE EXCEPTION A0334
16.040	17.721	8875.7	16.0	867.0	1262	10' SHOULDERS
17.721	17.941	1161.6	8.0	56.7	83	TRANSITION FROM 10' SHOULDERS TO NONE
17.941	19.543	8458.6	16.0	826.2	1203	10' SHOULDERS
19.543	19.643	528.0	8.0	25.8	38	DROP TO ONE 10' SHOULDER (EXIT RAMP)
19.643	19.843	1056.0	8.0	51.6	75	10' SHOULDER (EXIT RAMP)
19.843	19.869	137.3	4.0	3.4	5	END 10' SHOULDER
19.869	19.888	100.3	40.0	24.5	36	22' SHOULDERS
19.888	20.888	5280.0	18.0	580.2	845	11' SHOULDERS
20.288	21.028	3907.2	14.0	333.9	486	9' SHOULDERS
21.028	21.310	1489.0	18.0	163.6	238	11' SHOULDERS
21.310	21.330	105.6				BRIDGE EXCEPTION A3995
21.330	23.052	9092.2	14.0	777.1	1131	9' SHOULDERS
23.052	23.052			55.1	80	RTE B INTERSECTION
23.052	23.515	2444.6	14.0	208.9	304	
23.515	23.595	422.4	10.0	25.8	38	7' SHOULDERS
				103.3	150	SHOULDERS AT 59 AND 60 OVERPASS
		1632.6	8.0	79.7	116	10' SHOULDER (SB ENTRANCE RAMP)
			SUBTOTAL 7	5437.3	7917	
			SUBTOTAL 8	62.1	90	ENTRANCES
			SUBTOTAL 6	95.2	79	1.75" BP-2
			SUBTOTAL	110.7		ADD 2% FOR SAFETY EDGE
			SUBTOTAL	214.5		IRREGULARITIES ONLY, MAY BE UNDERRUN
			TACK SUBTOTAL		8090	
			USE	5919.8		
BP-2 ESTIMATED AT 1.978 TONS PER CUBIC YARD						
TACK ESTIMATED AT 0.08 GALLONS PER SQUARE YARD						
5.3% ASPHALT CONTENT						
IRREGULARITIES FIGURED AT 20 TONS PER MILE						

1.75" BP-2 (PG 64-22) SHOULDERS					
BEGIN LOG MILE	END LOG MILE	AREA SY	OVERLAY TONS	TACK GAL	REMARKS
12.679	12.817	990.0	95.2	79	RTE 59 AND 60 INTERSECTION 1.75" MILL AND FILL
	SUBTOTAL 6		95.2	79	

BITUMINOUS FOG SEAL					
BEGIN LOG MILE	END LOG MILE	LENGTH LF	WIDTH LF	FOG SEAL GAL	REMARKS
11.547	11.678	691.7	10	77	PCCP
11.678	11.696	95.0			KODIAK INTERSECTION
11.696	11.778	433.0			KODIAK INTERSECTION
11.778	11.923	765.6	10	85	PCCP
11.923	12.000	406.6	20	90	PCCP
12.000	12.396	2090.9	20	465	PCCP
12.396	12.537	744.5	10	83	PCCP
12.537	12.577	211.2			LUSK DR. INTERSECTION
12.577	12.697	633.6	10	70	PCCP
			USE	870	
FOG SEAL @ 0.10 GAL/SY					

CABLE, LOOP DETECTOR, INDUCT			
LOG MILE	LOCATION	LENGTH LF	REMARKS
12.697	NB LEFT TURN LANE	364	6x30
12.697	NB THROUGH LANE	320	6x30
12.697	NB THROUGH LANE	304	6x30
12.717	WB LEFT TURN LANE	294	6x30
12.717	WB THROUGH LANE	324	6x30
13.497	EB LEFT TURN LANE	372	6x30
13.497	EB THROUGH LANE	342	6x30
13.537	WB LEFT TURN LANE	378	6x30
13.537	WB THROUGH LANE	358	6x30
	USE	3060	

SUMMARY SHEET
SHEET 2 OF 8

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 6/16/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	3

COUNTY NEWTON

JOB NO. J7P2202

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION | DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

COLDMILLING QUANTITIES					
0.5" COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (3 IN. THICK OR LESS)					
BEGIN LOG MILE	END LOG MILE	AVG WIDTH LF	LENGTH LF	COLDMILL SY	REMARKS
12.817	13.357	28.0	2851.2	8870	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
13.357	13.417	36.0	316.8	1267	OAK RIDGE DR.
13.417	13.477	40.0	316.8	1408	OAK RIDGE DR.
13.731	13.777	40.0	242.9	1079	HIGH STREET
13.777	13.831	32.0	285.1	1014	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
13.831	14.018	28.0	987.4	3072	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
14.018	14.058				BRIDGE EXCEPTION A0334
14.058	14.719	28.0	3490.1	10858	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
14.719	14.779	34.0	316.8	1197	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
14.779	14.899	44.0	633.6	3098	CEMETERY RD., EOS TO EOS
14.899	14.959	34.0	316.8	1197	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
14.959	15.620	28.0	3490.1	10858	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
15.620	15.700	34.0	422.4	1596	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
15.700	15.820	44.0	633.6	3098	RTE HH
15.820	15.900	34.0	422.4	1596	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
15.900	16.000	28.0	528.0	1643	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
16.000	16.040				BRIDGE EXCEPTION A0333
16.040	17.721	28.0	8875.7	27613	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
17.721	17.782	34.0	322.1	1217	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
17.782	17.881	40.0	522.7	2323	RTE 86, EOS TO EOS
17.881	17.941	34.0	316.8	1197	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
17.941	19.423	28.0	7825.0	24344	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
19.423	19.463	34.0	211.2	798	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
19.463	19.503	40.0	211.2	939	RTE 59 AND 60 INTERCHANGE
19.503	19.543	46.0	211.2	1079	RTE 59 AND 60 INTERCHANGE
19.543	19.643	44.0	528.0	2581	12' TRAVEL LANES, 14' RAMP
		28.0	961.0	2990	CONTINUE TO BRIDGE A3955
19.643	19.843	20.0	1056.0	2347	EXIT RAMP
19.843				495	NB ENTRANCE RAMP
19.843				447	NB EXIT RAMP
19.843				300	SB ENTRANCE RAMP
19.843				321	SB EXIT RAMP
19.843	21.310	28.0	7745.8	24098	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
21.310	21.330				BRIDGE EXCEPTION A4532
21.330	23.515	28.0	11536.8	35892	12' LANES (PAVE 14' WIDTH TO INCLUDE RUMBLE STRIP)
				469	RTE 86 WEST
				630	RTE 86 EAST
			SUBTOTAL 9	181931	
1.75" COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (3 IN. THICK OR LESS)					
12.697	12.817		633.6	6763	RTE 59 AND 60 INTERSECTION 1.75" MILL AND FILL
13.477	13.557	52.0	422.4	2441	OAK RIDGE DR.
13.557	13.731	46.0	918.7	4696	HIGH STREET
23.515	23.595	30.0	422.4	1408	CURB AND GUTTER EAST OF RTE E IN GRANBY
			SUBTOTAL 10	15308	
			SUBTOTAL 9 + SUBTOTAL 10 = TOTAL	197239	
			USE	197239	

SUMMARY SHEET
SHEET 3 OF 8

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
6/16/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	3

COUNTY
NEWTON

JOB NO.
J7P2202

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

MODIFIED COLDMILLING (DEPTH TRANSITION)				
LOG MILE	PAVEMENT WIDTH	TRANSITION LENGTH	AREA	REMARKS
	LF	LF	SY	
12.817	45	62.5	313	TRANSITION FROM 1.75" MILL TO 0.5" MILL, FROM 59 INTERSECTION
13.468	46	62.5	319	TRANSITION FROM 0.5" MILL TO 1.75" MILL, OAK RIDGE DR.
13.731	46	62.5	319	TRANSITION FROM 1.75" MILL TO 0.5" MILL, PAST HIGH ST.
14.009	31	50	172	BRIDGE A0334 WEST APPROACH
14.058	34.5	50	192	BRIDGE A0334 EAST APPROACH
15.991	32	50	178	BRIDGE A0333 WEST APPROACH
16.040	32	50	178	BRIDGE A0333 EAST APPROACH
	44	50	244	BRIDGE A3955 SOUTH APPROACH, 59 OVERPASS
21.301	42	50	233	BRIDGE A4532 WEST APPROACH
21.330	42	50	233	BRIDGE A4532 EAST APPROACH
23.506	36	50	200	TRANSITION FROM 0.5" MILL TO 1.75" MILL, AT GRANBY CURB AND GUTTER
15.760	24	20	53	RTE HH NORTH
15.760	24	20	53	RTE HH SOUTH
17.561	24	20	53	RTE 86 WEST
17.801	24	20	53	RTE 86 EAST
23.052	24	20	53	RTE B SOUTH
19.863	32	20	72	NB ENTRANCE RAMP, 59 INTERCHANGE
19.863	32	20	72	NB EXIT RAMP
19.863	32	20	72	SB ENTRANCE RAMP
19.863	32	20	72	SB EXIT RAMP
19.863	56	50	306	WEST END OF 60/59 INTERCHANGE
19.888	28	20	62	OUTER RD. TRANSITION
19.888	28	20	62	OTTER DR. TRANSITION
		TOTAL	3567	
		USE	3567	

REMOVAL OF IMPROVEMENTS (EXISTING GUARDRAIL)					
BEGIN LOG MILE	END LOG MILE	DIRECTION	LOCATION	QUANTITY LF	REMARKS
13.998	14.018	EB	RT	120	BRIDGE A0334
13.998	14.018	EB	LT	120	BRIDGE A0334
14.058	14.179	EB	RT		BRIDGE A0334, GUARDRAIL HEIGHT 28", REPLACE TURN DOWN WITH CWT ONLY
14.058	14.179	EB	LT	550	BRIDGE A0334
14.476	14.533	EB	RT	407	
15.980	16.000	EB	RT	119	BRIDGE A0333
15.980	16.000	EB	LT	120	BRIDGE A0333
16.040	16.060	EB	RT	122	BRIDGE A0333
16.040	16.060	EB	LT	120	BRIDGE A0333
16.140	16.220	EB	RT	486	
16.140	16.220	EB	LT	486	
16.619	16.659	EB	LT	243	
17.099	17.159	EB	RT	354	
17.099	17.159	EB	LT	354	
21.290	21.310	EB	RT	127	BRIDGE A4532
21.290	21.310	EB	LT	63	BRIDGE A4532
21.330	21.350	EB	RT	122	BRIDGE A4532
21.330	21.350	EB	LT	125	BRIDGE A4532
33.987	34.003	NB 59	RT	120	BRIDGE A3955
33.987	34.003	NB 59	LT	126	BRIDGE A3955
			TOTAL	1 LUMP SUM	

SUMMARY SHEET
SHEET 4 OF 8

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
6/16/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	3

COUNTY
NEWTON

JOB NO.
J7P2202

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

TYPE A GUARDRAIL										
BEGIN LOG MILE	END LOG MILE	DIRECTION	LOCATION	LENGTH LF	TYPE A GUARDRAIL 7 FT POSTS LF	CRASHWORTHY TERMINAL SECTION EACH	BRIDGE ANCHOR SECTION EACH	TRANSITION SECTION EACH	END ANCHOR EACH	REMARKS
13.998	14.018	EB	RT	250	200	1	1	1		BRIDGE A0334
13.998	14.018	EB	LT	120	75	1	1	1		BRIDGE A0334, REPLACE TURN DOWN WITH CWT
14.058	14.179	EB	RT			1				BRIDGE A0334, GUARDRAIL HEIGHT 28", REPLACE TURN DOWN WITH CWT ONLY
14.058	14.179	EB	LT	550	500	1	1	1		BRIDGE A0334
14.476	14.533	EB	RT	407	337.5	2				
15.980	16.000	EB	RT	162.5	112.5	1	1	1		BRIDGE A0333
15.980	16.000	EB	LT	120	75	1	1	1		BRIDGE A0333
16.040	16.060	EB	RT	187.5	137.5	1	1	1		BRIDGE A0333
16.040	16.060	EB	LT	120	75	1	1	1		BRIDGE A0333
16.140	16.220	EB	RT	486	412.5	2				
16.140	16.220	EB	LT	486	412.5	2				
16.619	16.659	EB	LT	255.5	187.5	2				
17.099	17.159	EB	RT	354	287.5	2				
17.099	17.159	EB	LT	354	287.5	2				
21.290	21.310	EB	RT	200	150	1	1	1		BRIDGE A4532
21.290	21.310	EB	LT	88	75		1	1	1	BRIDGE A4532
21.330	21.350	EB	RT	122	75	1	1	1		BRIDGE A4532
21.330	21.350	EB	LT	200	150	1	1	1		BRIDGE A4532
33.987	34.003	NB 59	RT	200	150	1	1	1		BRIDGE A3955
33.987	34.003	NB 59	LT	126	75	1	1	1		BRIDGE A3955
				TOTAL	3775	25	13	13	1	

TEMPORARY PAVEMENT MARKERS						
LOG MILE	LOG MILE	LENGTH LF	LOCATION	TYPE 1 - WHITE EACH	TYPE 2 - YELLOW EACH	REMARKS
12.697	12.697		59 INTERSECTION, SB LANES	27		
12.697	12.697		59 INTERSECTION, NB LANES	36		
12.717	12.837	633.6	WESTBOUND LANES AT 59 INTERSECTION	191	32	
12.837	13.357	2745.6		83	69	
13.357	13.798	2328.5	RED OAK/S. HIGH ST. INTERSECTION	699	117	
13.798	14.719	4862.9		146	122	
14.719	14.959	1267.2	CEMETERY ROAD	381	64	
14.959	15.640	3595.7		108	90	
15.640	15.900	1372.8	RTE HH INERSECTION	412	69	
15.900	17.741	9720.5		292	244	
17.741	17.941	1056.0	RTE 86 INTERSECTION	317	53	
17.941	19.503	8247.4		248	207	
19.503	19.869	1932.5	59, 60 INTERCHANGE	580	97	
19.869	23.595	19673.3		591	492	
TOTAL				4111	1656	
TEMPORARY RAISED PAVEMENT MARKERS REMOVED BY OTHERS						

SUMMARY SHEET
SHEET 5 OF 8

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 6/16/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	3

COUNTY NEWTON

JOB NO. J7P2202

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

ENTRANCE PAVING QUANTITIES

LOG MILE	LOCATION	AVG WIDTH LF	1" BP-2 (PG 64-22) TONS	TACK GAL	REMARKS
14.839	LT	62	0.757	1.1	CEMETARY RD.
14.839	RT	62	0.757	1.1	CEMETARY RD.
16.240	LT	92	1.123	1.6	NEWT DR.
17.079	RT	66	0.806	1.2	OWL RD.
17.280	LT	38	0.464	0.7	LACEY LN.
17.541	RT	84	1.026	1.5	LINDEN DR.
17.641	RT	132	1.612	2.3	PRIVATE ENTRANCE
17.801	LT	49	0.598	0.9	PRIVATE ENTRANCE
17.902	LT	15	0.183	0.3	PRIVATE ENTRANCE
18.061	LT	65	0.794	1.2	N WOOD ST.
18.201	RT	25	0.305	0.4	PRIVATE ENTRANCE
18.261	LT	27	0.330	0.5	PRIVATE ENTRANCE
18.341	LT	42	0.513	0.7	PRIVATE ENTRANCE
18.401	RT	110	1.343	2.0	KARA LN.
18.401	LT	28	0.342	0.5	PRIVATE ENTRANCE
18.581	RT	42	0.513	0.7	COMMERCIAL ENTRANCE
18.622	LT	65	0.794	1.2	KAREN LN.
18.802	LT	51	0.623	0.9	PRIVATE ENTRANCE
18.882	LT	32	0.391	0.6	PRIVATE ENTRANCE
18.922	LT	48	0.586	0.9	KENTUCKY RD.
18.922	RT	40	0.488	0.7	JASMINE DR.
20.008	LT	120	1.465	2.1	PRIVATE ENTRANCE
20.107	LT	37	0.452	0.7	PRIVATE ENTRANCE
20.167	LT	50	0.610	0.9	PRIVATE ENTRANCE
20.207	RT	51	0.623	0.9	PRIVATE ENTRANCE
20.227	LT	22	0.269	0.4	PRIVATE ENTRANCE
20.288	LT	29	0.354	0.5	PRIVATE ENTRANCE
20.308	RT	54	0.659	1.0	PRIVATE ENTRANCE
20.368	RT	28	0.342	0.5	PRIVATE ENTRANCE
20.448	LT	22	0.269	0.4	PRIVATE ENTRANCE
20.508	RT	49	0.598	0.9	PRIVATE ENTRANCE
20.528	LT	24	0.293	0.4	PRIVATE ENTRANCE
20.548	LT	29	0.354	0.5	PRIVATE ENTRANCE
20.588	RT	65	0.794	1.2	TOWER RD.
20.648	RT	29	0.354	0.5	PRIVATE ENTRANCE
20.648	LT	22	0.269	0.4	PRIVATE ENTRANCE
20.708	LT	47	0.574	0.8	RIDGEWAY CIRCLE
20.748	RT	25	0.305	0.4	PRIVATE ENTRANCE
20.807	LT	30	0.366	0.5	PRIVATE ENTRANCE
20.807	RT	25	0.305	0.4	PRIVATE ENTRANCE
20.927	RT	48	0.586	0.9	PRIVATE ENTRANCE
21.026	LT	32	0.391	0.6	PRIVATE ENTRANCE
21.106	LT	36	0.440	0.6	PRIVATE ENTRANCE
21.146	RT	50	0.610	0.9	JULIA LN.
21.167	LT	32	0.391	0.6	PRIVATE ENTRANCE
21.227	LT	35	0.427	0.6	PRIVATE ENTRANCE
21.287	LT	55	0.672	1.0	PRIVATE ENTRANCE
21.566	LT	25	0.305	0.4	PRIVATE ENTRANCE
21.262	RT	21	0.256	0.4	PRIVATE ENTRANCE
21.905	LT	36	0.440	0.6	PRIVATE ENTRANCE
21.925	LT	20	0.244	0.4	PRIVATE ENTRANCE
22.045	LT	90	1.099	1.6	CITY LIMIT RD.
22.045	RT	116	1.416	2.1	CITY LIMIT RD.
22.125	RT	25	0.305	0.4	PRIVATE ENTRANCE
22.205	RT	70	0.855	1.2	PRIVATE ENTRANCE
22.345	RT	37	0.452	0.7	PRIVATE ENTRANCE
22.424	LT	54	0.659	1.0	COMMERCIAL ENTRANCE
22.444	RT	25	0.305	0.4	PRIVATE ENTRANCE
22.464	LT	60	0.733	1.1	COMMERCIAL ENTRANCE
22.484	RT	54	0.659	1.0	COMMERCIAL ENTRANCE
		SUBTOTAL 1	34.8	50.7	

ENTRANCE PAVING QUANTITIES – CONTINUED

LOG MILE	LOCATION	AVG WIDTH LF	1" BP-2 (PG 64-22) TONS	TACK GAL	REMARKS
22.484	LT	35	0.427	0.6	COMMERCIAL ENTRANCE
22.504	RT	19	0.232	0.3	PRIVATE ENTRANCE
22.524	RT	20	0.244	0.4	PRIVATE ENTRANCE
22.544	LT	43	0.525	0.8	PRIVATE ENTRANCE
22.264	RT	27	0.330	0.5	PRIVATE ENTRANCE
22.604	RT	27	0.330	0.5	PRIVATE ENTRANCE
22.644	RT	23	0.281	0.4	PRIVATE ENTRANCE
22.664	LT	35	0.427	0.6	PRIVATE ENTRANCE
22.664	RT	28	0.342	0.5	PRIVATE ENTRANCE
22.684	RT	22	0.269	0.4	PRIVATE ENTRANCE
22.704	LT	35	0.427	0.6	PRIVATE ENTRANCE
22.704	RT	33	0.403	0.6	PRIVATE ENTRANCE
22.724	LT	32	0.391	0.6	PRIVATE ENTRANCE
22.744	LT	27	0.330	0.5	PRIVATE ENTRANCE
22.744	RT	40	0.488	0.7	PRIVATE ENTRANCE
22.804	LT	30	0.366	0.5	PRIVATE ENTRANCE
22.844	LT	45	0.549	0.8	COMMERCIAL ENTRANCE
22.844	RT	36	0.440	0.6	COMMERCIAL ENTRANCE
22.864	RT	36	0.440	0.6	COMMERCIAL ENTRANCE
22.884	RT	66	0.806	1.2	COMMERCIAL ENTRANCE
22.904	RT	52	0.635	0.9	COMMERCIAL ENTRANCE
22.904	LT	18	0.220	0.3	PRIVATE ENTRANCE
22.924	LT	18	0.220	0.3	PRIVATE ENTRANCE
22.924	RT	55	0.672	1.0	COMMERCIAL ENTRANCE
22.944	LT	28	0.342	0.5	PRIVATE ENTRANCE
22.944	RT	46	0.562	0.8	COMMERCIAL ENTRANCE
22.963	LT	16	0.195	0.3	PRIVATE ENTRANCE
22.963	RT	50	0.610	0.9	WALNUT DR.
22.983	RT	18	0.220	0.3	PRIVATE ENTRANCE
23.003	LT	45	0.549	0.8	BACON RIDGE RD.
23.003	RT	18	0.220	0.3	PRIVATE ENTRANCE
23.063	LT	46	0.562	0.8	PRIVATE ENTRANCE
23.103	LT	55	0.672	1.0	PRIVATE ENTRANCE
23.123	RT	43	0.525	0.8	PRIVATE ENTRANCE
23.143	RT	43	0.525	0.8	PRIVATE ENTRANCE
23.153	RT	42	0.513	0.7	PRIVATE ENTRANCE
23.163	RT	34	0.415	0.6	PRIVATE ENTRANCE
23.183	LT	97	1.184	1.7	COMMERCIAL ENTRANCE
23.183	RT	66	0.806	1.2	COMMERCIAL ENTRANCE
23.203	LT	63	0.769	1.1	COMMERCIAL ENTRANCE
23.203	RT	33	0.403	0.6	RABBIT TRACK RD.
23.223	LT	43	0.525	0.8	PRIVATE ENTRANCE
23.263	RT	17	0.208	0.3	PRIVATE ENTRANCE
23.283	LT	24	0.293	0.4	PRIVATE ENTRANCE
23.303	LT	37	0.452	0.7	HILLCREST RD.
23.303	RT	33	0.403	0.6	HILLCREST RD.
23.343	RT	62	0.757	1.1	PRIVATE ENTRANCE
23.383	LT	22	0.269	0.4	PRIVATE ENTRANCE
23.383	RT	29	0.354	0.5	PRIVATE ENTRANCE
23.424	LT	23	0.281	0.4	PRIVATE ENTRANCE
23.424	RT	67	0.818	1.2	PRIVATE ENTRANCE
23.444	LT	35	0.427	0.6	HILLCREST RD.
23.464	LT	59	0.720	1.0	PRIVATE ENTRANCE
23.464	RT	96	1.172	1.7	PRIVATE ENTRANCE
23.504	RT	44	0.537	0.8	PRIVATE ENTRANCE
23.524	RT	54	0.659	1.0	PRIVATE ENTRANCE
23.544	RT	43	0.525	0.8	BEAVER AVE.
		SUBTOTAL 2	27.3	39.7	
		SUBTOTAL 1	34.8	50.7	
		SUBTOTAL 8	62.1	90.4	

SUMMARY SHEET
SHEET 6 OF 8

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
6/16/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	3

COUNTY
NEWTON

JOB NO.
J7P2202

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

TYPE 2 PREFORMED MARKING TAPE (GROOVED), 24 IN, YELLOW			
LOG MILE	LOCATION	LENGTH	REMARKS
		LF	
12.797	LEFT TURN BAY	16	DIAGONAL HASH
12.806	LEFT TURN BAY	12	DIAGONAL HASH
12.812	LEFT TURN BAY	7	DIAGONAL HASH
13.361	LEFT TURN BAY	4	DIAGONAL HASH
13.371	LEFT TURN BAY	7	DIAGONAL HASH
13.380	LEFT TURN BAY	8	DIAGONAL HASH
13.390	LEFT TURN BAY	9	DIAGONAL HASH
13.400	LEFT TURN BAY	10	DIAGONAL HASH
13.409	LEFT TURN BAY	12	DIAGONAL HASH
13.418	LEFT TURN BAY	9	DIAGONAL HASH
13.605	CENTER TURN LANE	15	DIAGONAL HASH
13.615	CENTER TURN LANE	15	DIAGONAL HASH
13.624	CENTER TURN LANE	15	DIAGONAL HASH
13.373	LEFT TURN BAY	14	DIAGONAL HASH
13.783	LEFT TURN BAY	12	DIAGONAL HASH
13.792	LEFT TURN BAY	8	DIAGONAL HASH
13.802	LEFT TURN BAY	4	DIAGONAL HASH
14.739	LEFT TURN BAY	4	DIAGONAL HASH
14.749	LEFT TURN BAY	8	DIAGONAL HASH
14.758	LEFT TURN BAY	10	DIAGONAL HASH
14.768	LEFT TURN BAY	12	DIAGONAL HASH
14.777	LEFT TURN BAY	13	DIAGONAL HASH
14.787	LEFT TURN BAY	16	DIAGONAL HASH
14.796	LEFT TURN BAY	7	DIAGONAL HASH
14.889	LEFT TURN BAY	4	DIAGONAL HASH
14.898	LEFT TURN BAY	13	DIAGONAL HASH
14.908	LEFT TURN BAY	13	DIAGONAL HASH
14.917	LEFT TURN BAY	10	DIAGONAL HASH
14.927	LEFT TURN BAY	6	DIAGONAL HASH
14.936	LEFT TURN BAY	6	DIAGONAL HASH
14.946	LEFT TURN BAY	4	DIAGONAL HASH
15.650	LEFT TURN BAY	5	DIAGONAL HASH
15.659	LEFT TURN BAY	8	DIAGONAL HASH
15.669	LEFT TURN BAY	10	DIAGONAL HASH
15.678	LEFT TURN BAY	13	DIAGONAL HASH
15.688	LEFT TURN BAY	14	DIAGONAL HASH
15.697	LEFT TURN BAY	7	DIAGONAL HASH
15.805	LEFT TURN BAY	3	DIAGONAL HASH
15.815	LEFT TURN BAY	11	DIAGONAL HASH
15.824	LEFT TURN BAY	13	DIAGONAL HASH
15.834	LEFT TURN BAY	12	DIAGONAL HASH
15.843	LEFT TURN BAY	10	DIAGONAL HASH
15.853	LEFT TURN BAY	8	DIAGONAL HASH
15.862	LEFT TURN BAY	5	DIAGONAL HASH
15.872	LEFT TURN BAY	3	DIAGONAL HASH
17.741	LEFT TURN BAY	4	DIAGONAL HASH
17.751	LEFT TURN BAY	6	DIAGONAL HASH
17.760	LEFT TURN BAY	8	DIAGONAL HASH
17.770	LEFT TURN BAY	11	DIAGONAL HASH
17.779	LEFT TURN BAY	13	DIAGONAL HASH
17.861	LEFT TURN BAY	9	DIAGONAL HASH
17.871	LEFT TURN BAY	14	DIAGONAL HASH
17.880	LEFT TURN BAY	11	DIAGONAL HASH
17.890	LEFT TURN BAY	9	DIAGONAL HASH
17.899	LEFT TURN BAY	7	DIAGONAL HASH
17.909	LEFT TURN BAY	6	DIAGONAL HASH
17.918	LEFT TURN BAY	3	DIAGONAL HASH
TOTAL		526	

TYPE 2 PREFORMED MARKING TAPE (GROOVED)					
LOG MILE	LOCATION	LEFT ARROW	RIGHT ARROW	COMBINATION STRAIGHT LEFT/RIGHT ARROW	REMARKS
		EACH	EACH	EACH	
12.697	NB LANE	2			59 & 60 INTERSECTION
12.737	WB LANE	1			59 & 60 INTERSECTION
12.757	WB LANE	1	1		59 & 60 INTERSECTION
12.777	WB LANE		1		59 & 60 INTERSECTION
13.437	EB LANE	1			OAK RIDGE DR.
13.477	EB LANE	1			OAK RIDGE DR.
13.497	EB LANE	1			OAK RIDGE DR.
13.517	NB & SB LANES			2	OAK RIDGE DR.
13.537	WB LANE	1			OAK RIDGE DR.
13.557	WB LANE	1			OAK RIDGE DR.
13.597	WB LANE	1			OAK RIDGE DR.
13.662	EB LANE	1			S. HIGH ST.
13.673	EB LANE		1		S. HIGH ST.
13.685	EB LANE	1	1		S. HIGH ST.
13.740	WB LANE	1			S. HIGH ST.
13.760	WB LANE	1			S. HIGH ST.
14.799	EB LANE	1			CEMETERY RD
14.819	EB LANE	1			CEMETERY RD
14.859	WB LANE	1			CEMETERY RD
14.879	WB LANE	1			CEMETERY RD
15.720	EB LANE	1			RTE HH
15.740	EB LANE	1			RTE HH
15.781	WB LANE	1			RTE HH
15.800	WB LANE	1			RTE HH
17.821	WB LANE	1			MO-86
17.861	WB LANE	1			MO-86
TOTAL		28		2	

TYPE 2 PREFORMED MARKING TAPE (GROOVED), 24 IN, WHITE			
LOG MILE	LOCATION	LENGTH	REMARKS
		LF	
12.697	59 INTERSECTION	36	NORTHBOUND LANES
12.717	59 INTERSECTION	24	WESTBOUND LANES
13.497	RED OAK DR. INTERSECTION	24	EASTBOUND LANES
13.517	RED OAK DR. INTERSECTION	24	NORTH AND SOUTH BOUND LANES
13.537	RED OAK DR. INTERSECTION	24	WESTBOUND LANES
13.710	S. HIGH ST. INTERSECTION	24	EASTBOUND LANES
13.723	S. HIGH ST. INTERSECTION	48	NORTH AND SOUTH BOUND LANES
13.733	S. HIGH ST. INTERSECTION	24	WESTBOUND LANES
TOTAL		228	

NOTE: STRIPING BY OTHERS

SUMMARY SHEET
SHEET 7 OF 8

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
6/16/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	3

COUNTY
NEWTON

JOB NO.
J7P2202

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

EFFECTIVE: 08-01-2012

SIGN	SIZE (IN.)	AREA (SQ. FT.)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION
WARNING SIGNS							
W01-1L	48X48	16.00					TURN (SYMBOL LEFT ARROW)
W01-1R	48X48	16.00					TURN (SYMBOL RIGHT ARROW)
W01-2L	48X48	16.00					CURVE (SYMBOL LEFT ARROW)
W01-2R	48X48	16.00					CURVE (SYMBOL RIGHT ARROW)
W01-3L	48X48	16.00					REVERSE TURN (SYMBOL LEFT ARROW)
W01-3R	48X48	16.00					REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4L	48X48	16.00					REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4R	48X48	16.00					REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4bL	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
W01-4bR	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
W01-4cL	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
W01-4cR	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
W01-6	60X30	12.50					HORIZONTAL ARROW (SYMBOL)
W01-6a	72X36	18.00					HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE)
W01-7	60X30	12.50					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	72X36	18.00					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE)
W01-8	18X24	3.00					CHEVRON (SYMBOL)
W01-8a	30X36	7.50					CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
W03-1	48X48	16.00					STOP AHEAD (SYMBOL)
W03-2	48X48	16.00					YIELD AHEAD (SYMBOL)
W03-3	48X48	16.00					SIGNAL AHEAD (SYMBOL)
W03-4	48X48	16.00					BE PREPARED TO STOP
W03-5	**48X48**	**16.00**	**6**	**96**			**SPEED LIMIT AHEAD** (3)
W04-1L	48X48	16.00					MERGE (SYMBOL FROM LEFT)
W04-1R	48X48	16.00					MERGE (SYMBOL FROM RIGHT)
W05-1	**48X48**	**16.00**	**1**	**16**			**ROAD/BRIDGE/RAMP NARROWS** (43)
W05-3	48X48	16.00					ONE LANE BRIDGE
W05-5	48X48	16.00					NARROW LANES
W06-1	48X48	16.00					DIVIDED HIGHWAY (SYMBOL)
W06-2	48X48	16.00					DIVIDED HIGHWAY END (SYMBOL)
W06-3	48X48	16.00					TWO WAY TRAFFIC (SYMBOL)
W07-3a	30X24	5.00					NEXT XX MILES (PLAQUE)
W08-1	**48X48**	**16.00**	**6**	**96**			**BUMP**
W08-2	48X48	16.00					DIP
W08-3	48X48	16.00					PAVEMENT ENDS
W08-4	48X48	16.00					SOFT SHOULDER
W08-5	48X48	16.00					SLIPPERY WHEN WET (SYMBOL)
W08-6	48X48	16.00					TRUCK CROSSING WITH FLAGS
W08-6c	48X48	16.00					TRUCK ENTRANCE
W08-7	36X36	9.00					LOOSE GRAVEL
W08-9	48X48	16.00					LOW SHOULDER
W08-11	**48X48**	**16.00**	**13**	**208**			**UNEVEN LANES** (36)
W08-12	**48X48**	**16.00**	**7**	**112**			**NO CENTER LINE** (35)
W10-1	42 RND.	9.62					RAILROAD CROSSING
W012-1	**24X24**	**4.00**	**2**	**8**			**DOUBLE DOWN ARROW (SYMBOL)** (45)
W012-2	48X48	16.00					LOW CLEARANCE (SYMBOL)
W012-2x	24X18	3.00					LOW CLEARANCE (PLAQUE)
W012-2a	84X24	14.00					OVERHEAD LOW CLEARANCE (FEET AND INCHES)
W08-15	48X48	16.00					GROOVED PAVEMENT
W08-15p	30X24	5.00					MOTORCYCLE (PLAQUE)
W08-17	48X48	16.00					SHOULDER DROP-OFF (SYMBOL)
W08-17p	30X24	5.00					SHOULDER DROP-OFF (PLAQUE)
SPECIAL	120X60	50.00					LOW CLEARANCE XX FT XX IN XX MILES AHEAD
SPECIAL	120X60	50.00					WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
W013-1	**30X30**	**6.25**	**1**	**6.25**			**ADVISORY SPEED (PLAQUE)** (44)
W016-2	30X24	5.00					XXX FEET (PLAQUE)
W016-3	30X24	5.00					X MILE (PLAQUE)
W020-1	**48X48**	**16.00**	**11**	**176**			**ROAD/BRIDGE/RAMP WORK AHEAD** (2)
W020-2	48X48	16.00					DETOUR AHEAD
W020-3	48X48	16.00					ROAD CLOSED AHEAD
W020-4	**48X48**	**16.00**	**4**	**64**			**ONE LANE ROAD AHEAD** (7)
W020-5	**48X48**	**16.00**	**2**	**32**			**RIGHT/CENTER/LEFT LANE CLOSED AHEAD** (6)
W020-5a	48X48	16.00					2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
W020-6a	**48X48**	**16.00**	**2**	**32**			**RIGHT/CENTER/LEFT LANE CLOSED** (6)
W020-7a	**48X48**	**16.00**	**4**	**96**			**FLAGGER (SYMBOL) WITH FLAGS** (8)
W021-2	36X36	9.00					FRESH OIL
W021-5b	48X48	16.00					SHOULDER WORK AHEAD
W022-1	48X48	16.00					BLASTING ZONE AHEAD
W022-2	42X36	10.50					TURN OFF 2-WAY RADIO AND PHONE
W022-3	42X36	10.50					END BLASTING ZONE
W022-6e	21X15	2.19					WET PAINT (ARROW PIVOTS)
GUIDE SIGNS							
SPECIAL	36X36	9.00					FRESH OIL/LOOSE GRAVEL
E05-1	36X48	12.00					GORE EXIT
E05-2	48X36	12.00					EXIT OPEN
E05-2a	48X36	12.00					EXIT CLOSED
G020-1	**60X24**	**10.00**	**2**	**20**			**ROAD WORK NEXT 12 MILES** (1)
G020-2	**48X24**	**8.00**	**2**	**16**			**END ROAD WORK** (26)
G020-4	**36X18**	**4.50**	**1**	**4.50**			**PILOT CAR FOLLOW ME** (58)
SPECIAL	**42X30**	**8.75**	**8**	**70**			**PLEASE WAIT FOR PILOT CAR** (53)
G020-5aP	**36X24**	**6.00**	**4**	**64**			**WORK ZONE (PLAQUE)** (54)
M04-8a	24X18	3.00					END DETOUR
M04-9L	48X36	12.00					DETOUR (LEFT ARROW)
M04-9R	48X36	12.00					DETOUR (RIGHT ARROW)
M04-10L	48X18	6.00					DETOUR (ARROW LEFT)
M04-10R	48X18	6.00					DETOUR (ARROW RIGHT)
REGULATORY SIGNS							
R1-1	48X48	13.25					STOP
R1-2	48 TRI.	6.93					YIELD
R1-2a	36X36	9.00					TO ONCOMING TRAFFIC (PLAQUE)
R1-3	20X9	1.25					X-WAY (PLAQUE)
R2-1	**36X48**	**12.00**	**12**	**144**			**SPEED LIMIT (2-45,4-60,4-50,2-35)** (25)(4)
R3-1	48X48	16.00					NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00					NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00					NO TURNS
R3-4	48X48	16.00					NO U-TURN (SYMBOL)
R3-7L	**30X30**	**6.25**	**2**	**12.5**			**LEFT LANE MUST TURN LEFT**
R3-7R	30X30	6.25					RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00					DO NOT PASS
R4-2	36X48	12.00					PASS WITH CARE
R4-7aL	36X48	12.00					KEEP LEFT (HORIZONTAL ARROW)
R4-7a	36X48	12.00					KEEP RIGHT (HORIZONTAL ARROW)
R5-1	30X30	6.25					DO NOT ENTER
R5-1a	36X24	6.00					WRONG WAY
R6-1L	48X18	6.00					ONE WAY ARROW (LEFT)
R6-1R	48X18	6.00					ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00					ONE WAY (LEFT)
R6-2R	24X30	5.00					ONE WAY (RIGHT)
R10-6	24X36	6.00					STOP HERE ON RED (45° ARROW)
R11-2	48X30	10.00					ROAD CLOSED
R11-3a	60X30	12.50					ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50					ROAD CLOSED TO THRU TRAFFIC
S4-4	36X15	3.75					WHEN FLASHING
CONST-3A	60X48	20.00					FINE SIGN
CONST-3X	56X12	4.67					SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS							
SPECIAL	36X48	12.00					POINT OF PRESENCE
SPECIAL	**96X48**	**32.00**	**2**	**64**			**POINT OF PRESENCE** (16)
CONST-7-48	48X24	8.00					RATE OUR WORK ZONE
CONST-7-72	**72X36**	**18.00**	**2**	**36**			**RATE OUR WORK ZONE** (19)
616-10.05 CONSTRUCTION SIGNS TOTAL				USE 1373			
616-10.10 RELOCATED SIGNS TOTAL							

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR (8 SAND BARRELS)
6122009		IMPACT ATTENUATOR (9 SAND BARRELS)
6122010		IMPACT ATTENUATOR (10 SAND BARRELS)
6122012		IMPACT ATTENUATOR (12 SAND BARRELS)
6122014		IMPACT ATTENUATOR (14 SAND BARRELS)
6122017		IMPACT ATTENUATOR (17 SAND BARRELS)
6122019		IMPACT ATTENUATOR (19 SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR ARRAY (RELOCATION)
6123000A	**2**	**TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)**
6161007		SPEED LIMIT AND STROBE LIGHT ASSEMBLY
6161008		ADVANCED WARNING RAIL SYSTEM
6161009	**32**	**FLAG ASSEMBLY**
6161020		CHANNELIZER (DRUM-LIKE)
6161022		CHANNELIZER (CONES)
6161024		CHANNELIZER (TRIM LINE) WITH LIGHT
6161025	**40**	**CHANNELIZER (TRIM LINE)**
6161026		CHANNELIZER (VERTICAL PANEL)
6161027		CHANNELIZER (VERTICAL PANEL) WITH LIGHT
6161028		CHANNELIZER
6161030		TYPE III MOVEABLE BARRICADE
6161031		TYPE III MOVEABLE BARRICADE WITH LIGHT
6161033		DIRECTION INDICATOR BARRICADE
6161034		DIRECTION INDICATOR BARRICADE, WITH LIGHT
6161040	**2**	**FLASHING ARROW PANEL**
6161047		TYPE III OBJECT MARKER
6161051		WARNING LIGHT, TYPE A
6161052	**32**	**WARNING LIGHT, TYPE B**
6161053		WARNING LIGHT, TYPE C
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098	**2**	**CHANGEABLE MESSAGE SIGN, CONTRACTOR FURNISHED/RETAINED**
6161100		CHANGEABLE MESSAGE SIGN, CONTRACTOR FURNISHED/COMMISSION RETAINED
6173600D		CONTRACTOR FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER
6173602B		CONTRACTOR FURNISHED/COMMISSION RETAINED TEMPORARY TRAFFIC BARRIER
6174000A		TEMPORARY TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		COMMISSION FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER
6177000B		COMMISSION FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER HEIGHT TRANSITION
9019400		TEMPORARY LIGHTING
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/2/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	3

COUNTY: NEWTON

JOB NO.: J7P2202

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

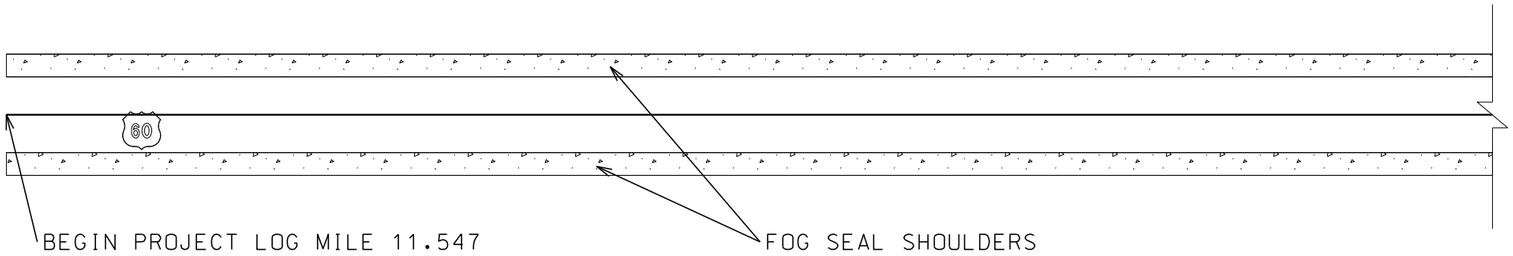
DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

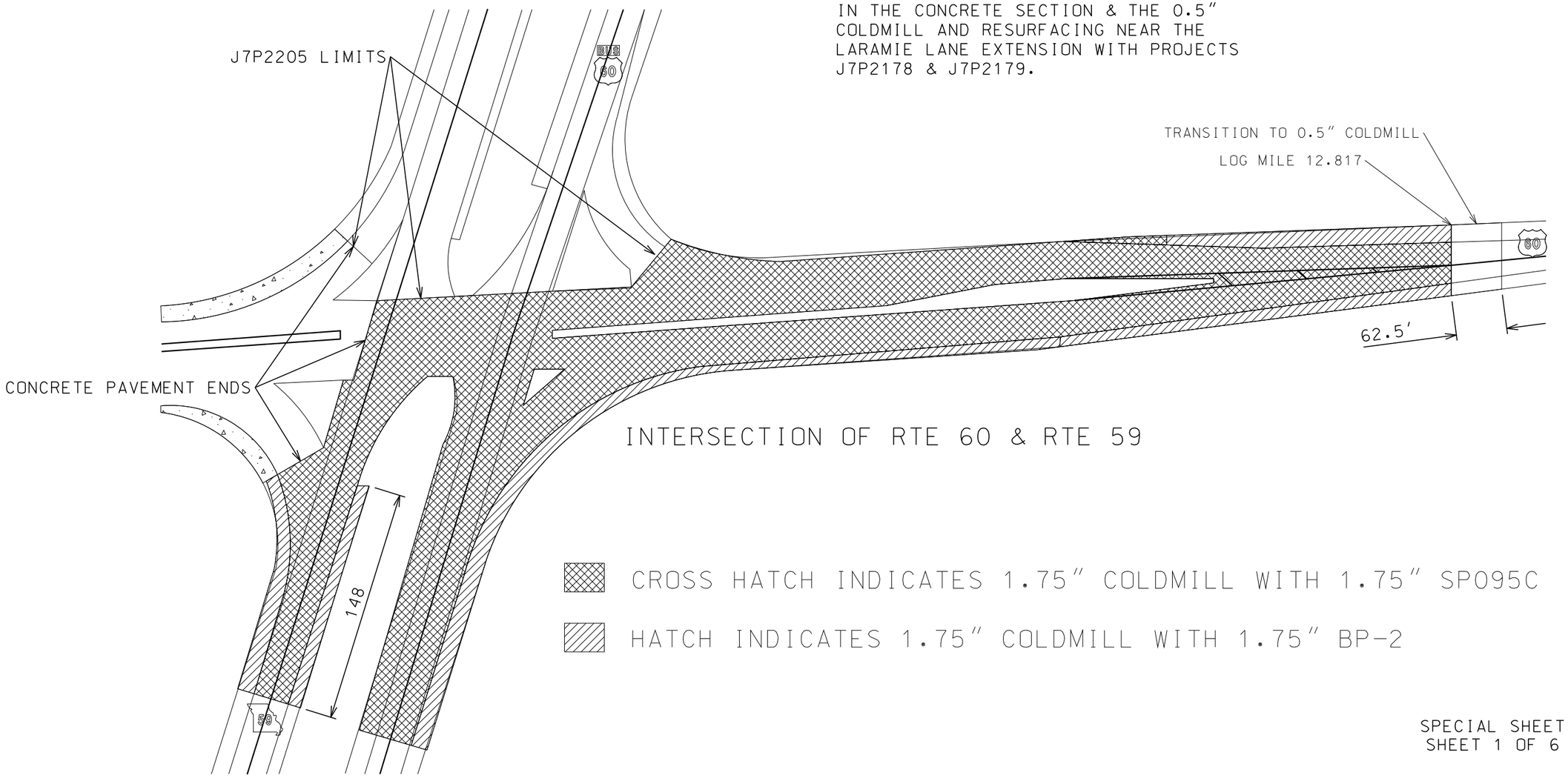
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SUMMARY SHEET
SHEET 8 OF 8



PATTERN INDICATES FOG SEAL

NOTE: COORDINATE THE SHOULDER FOG SEAL IN THE CONCRETE SECTION & THE 0.5" COLDMILL AND RESURFACING NEAR THE LARAMIE LANE EXTENSION WITH PROJECTS J7P2178 & J7P2179.



INTERSECTION OF RTE 60 & RTE 59

CROSS HATCH INDICATES 1.75" COLDMILL WITH 1.75" SP095C

HATCH INDICATES 1.75" COLDMILL WITH 1.75" BP-2

SPECIAL SHEET
SHEET 1 OF 6

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
6/16/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	4

COUNTY
NEWTON

JOB NO.
J7P2202

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

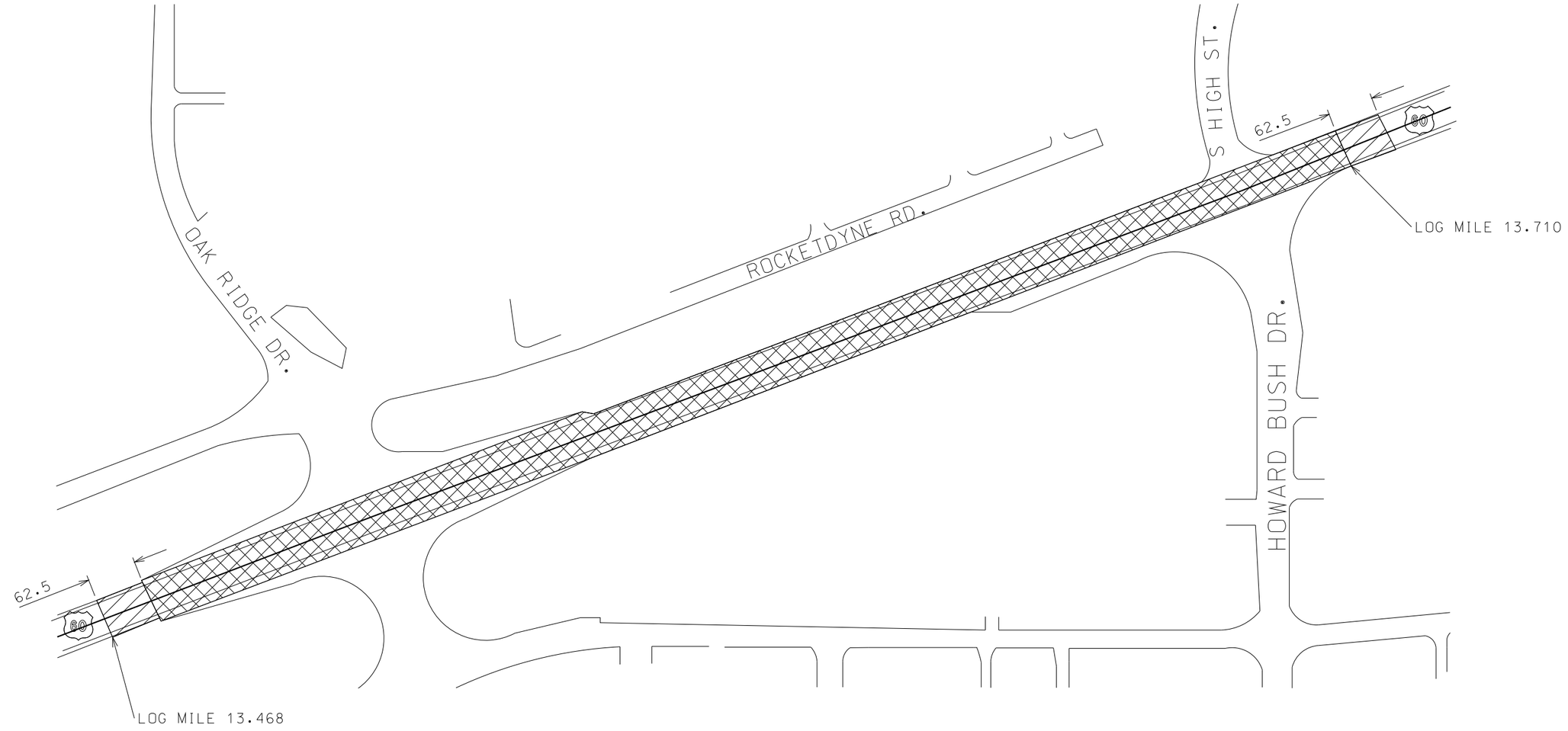
DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

CROSS HATCH INDICATES 1.75" COLDMILL WITH 1.75" SP095C

HATCH INDICATES MODIFIED COLDMILL TRANSITION



SPECIAL SHEET
SHEET 2 OF 6

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
6/11/2014	
ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	5
COUNTY	
NEWTON	
JOB NO.	
J7P2202	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

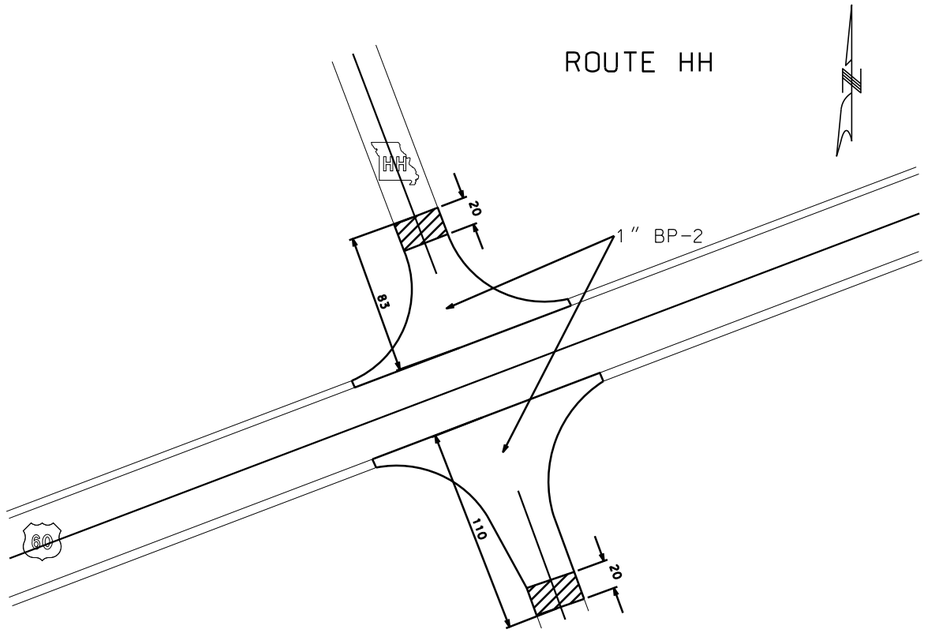
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

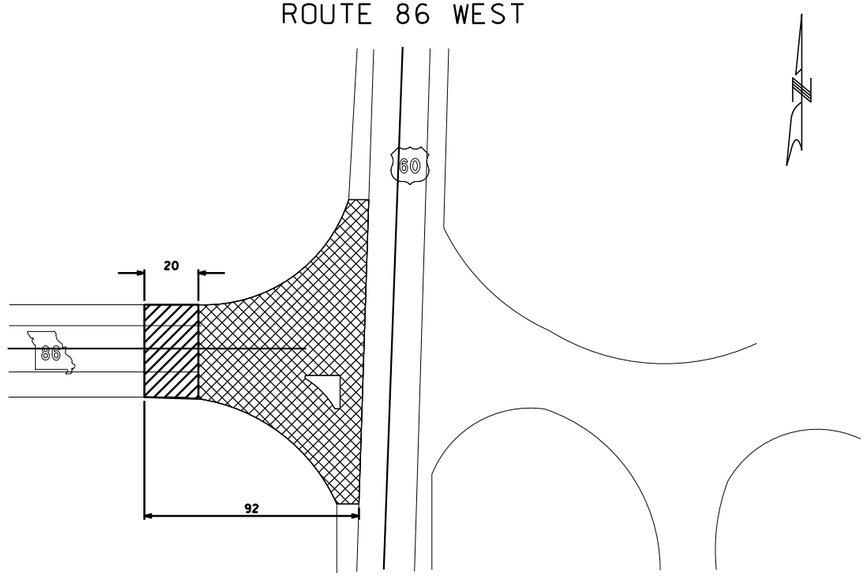
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

ROUTE HH



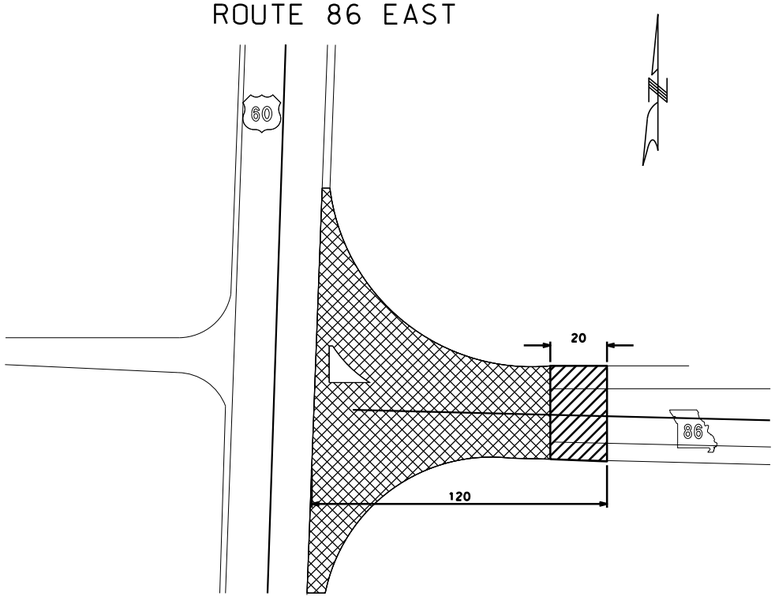
HATCH INDICATES MODIFIED COLDMILL TRANSITION

ROUTE 86 WEST

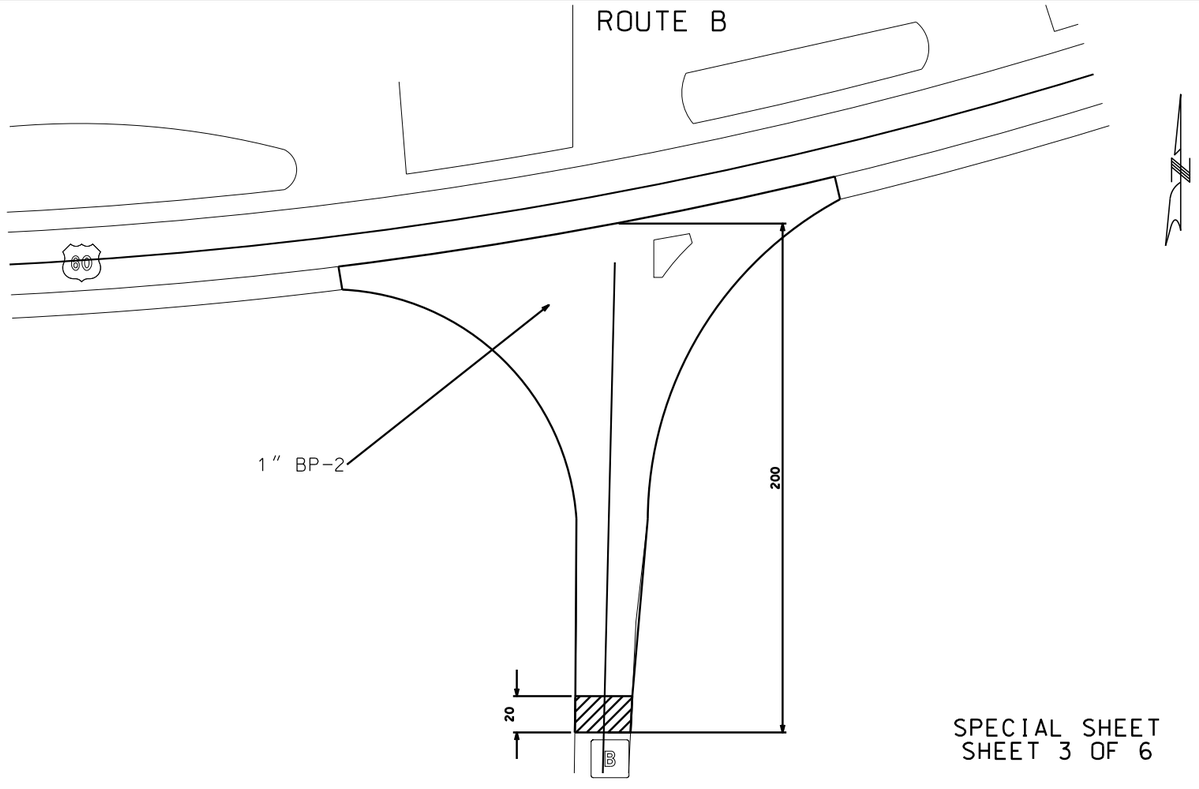


CROSSHATCH INDICATES 0.5" COLDMILL WITH 1.5" SP095C

ROUTE 86 EAST



ROUTE B



SPECIAL SHEET
SHEET 3 OF 6

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	6/11/2014
ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	6
COUNTY	NEWTON
JOB NO.	J7P2202
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

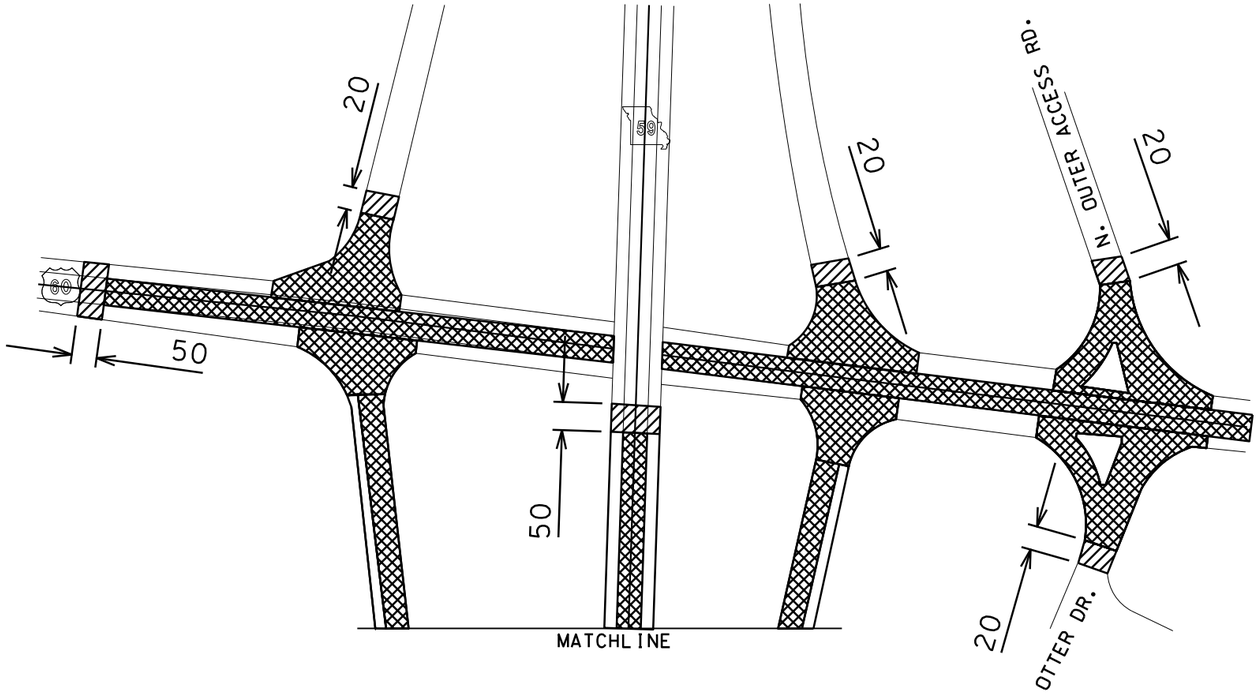
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

US-60 AND MO-59 INTERCHANGE DETAILS

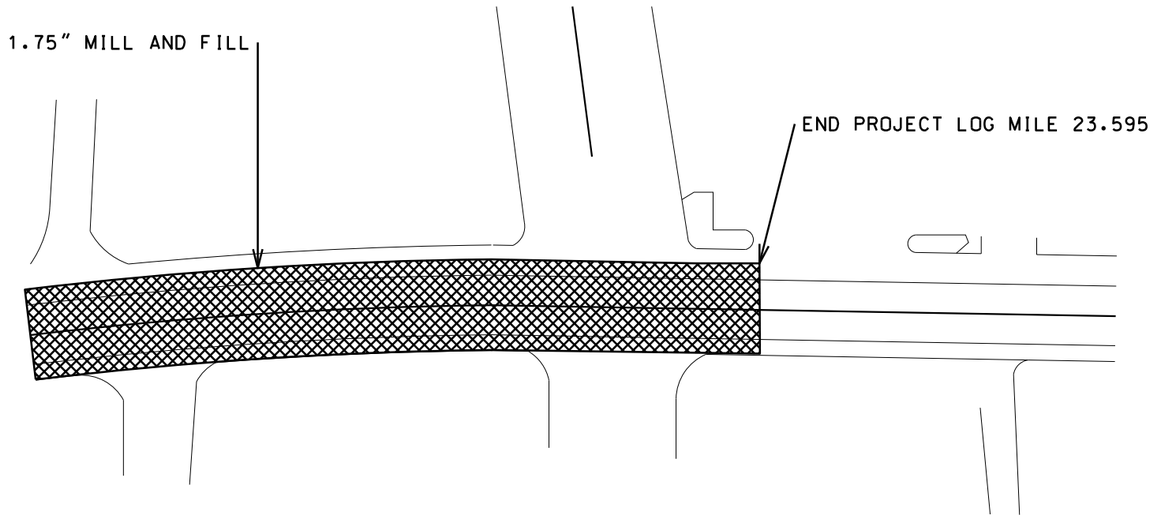


CROSSHATCH INDICATES 0.5" COLDMILL WITH 1.5" SP095C

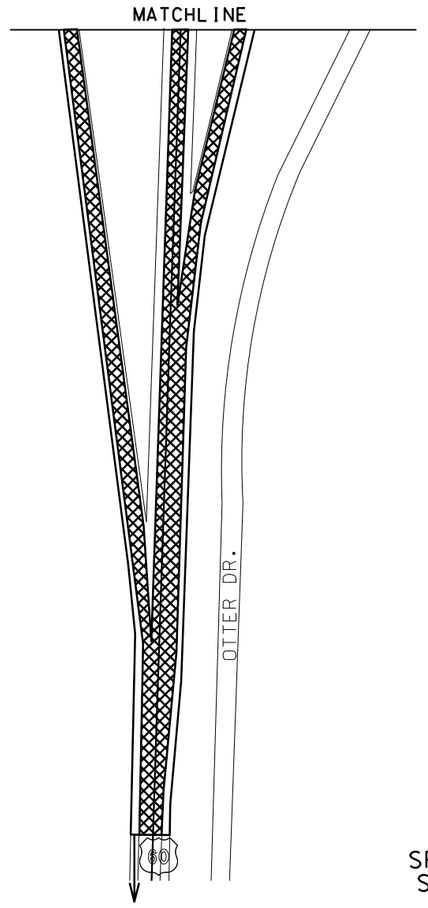
HATCH INDICATES MODIFIED COLDMILL

BP-2 FOR THE SHOULDERS

ROUTE E



US-60 AND MO-59 RAMP DETAILS



CONTINUE 0.5" COLDMILL THROUGH TRAVEL LANES

SPECIAL SHEET
SHEET 4 OF 6

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE PREPARED	6/11/2014
ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	7
COUNTY	NEWTON
JOB NO.	J7P2202
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

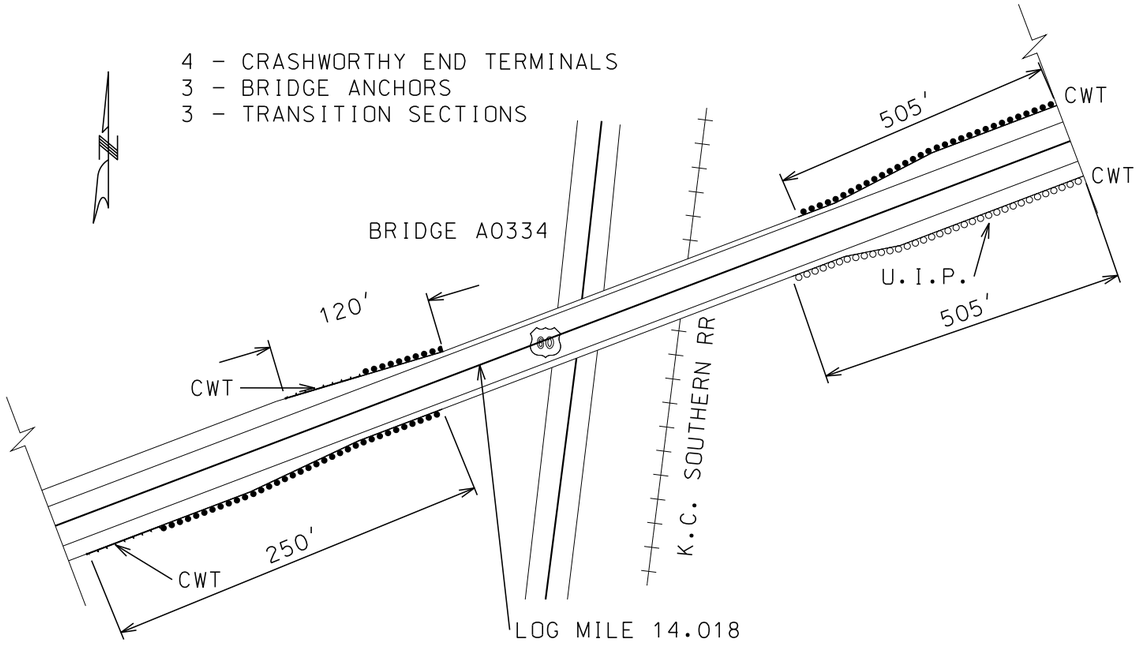
DESCRIPTION	DATE

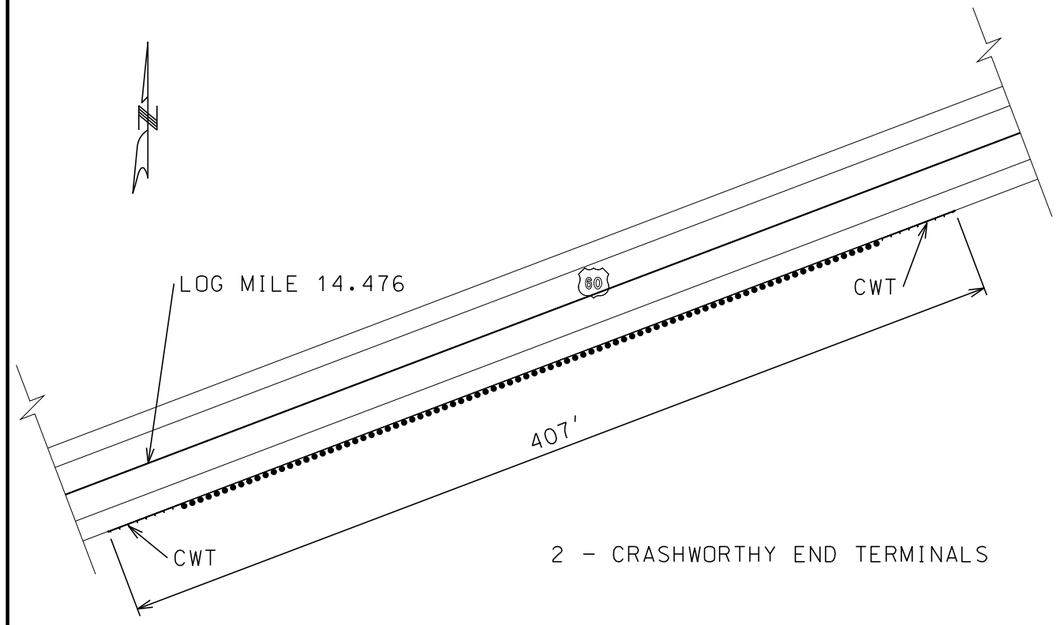
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

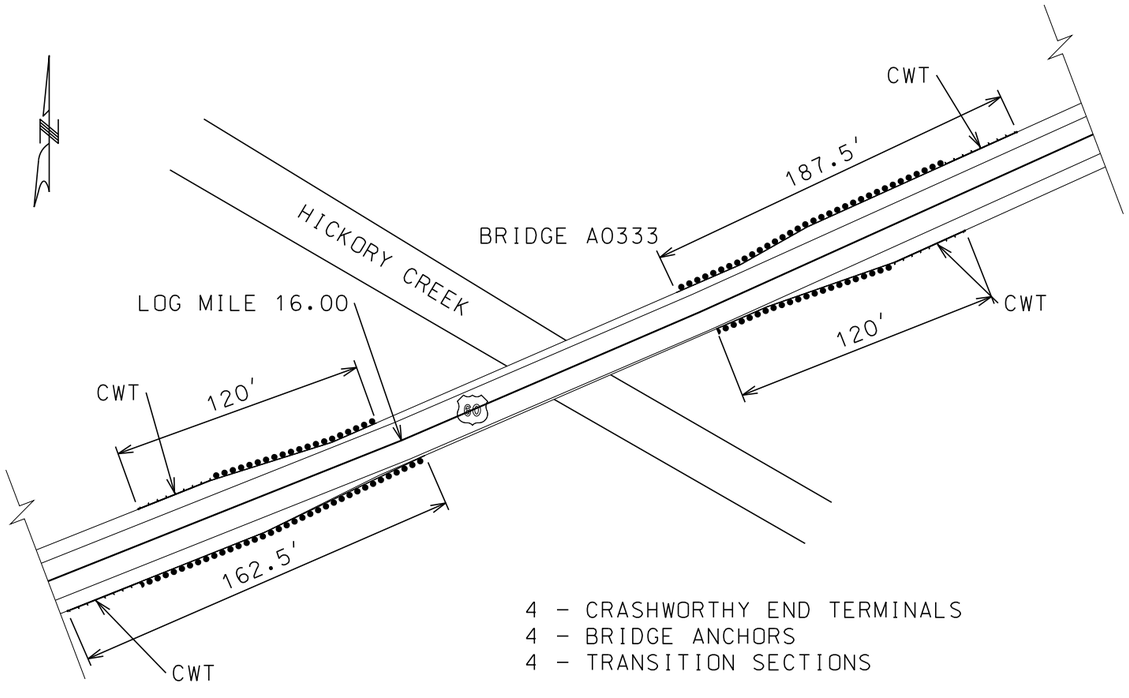
GUARDRAIL INSTALLATION

4 – CRASHWORTHY END TERMINALS
3 – BRIDGE ANCHORS
3 – TRANSITION SECTIONS

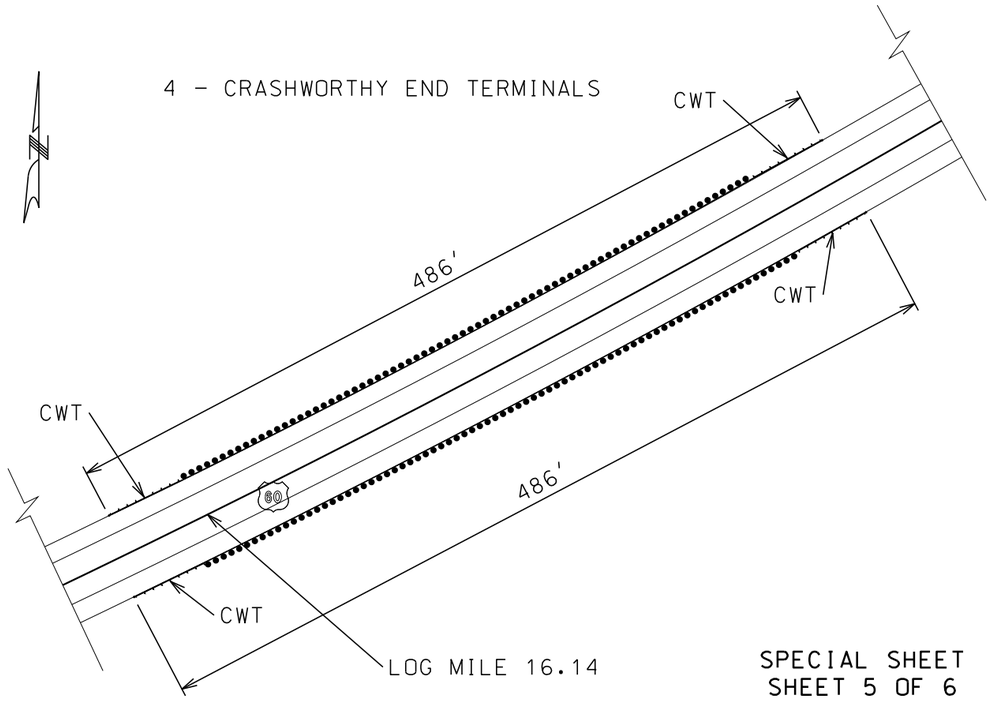




2 – CRASHWORTHY END TERMINALS



4 – CRASHWORTHY END TERMINALS
4 – BRIDGE ANCHORS
4 – TRANSITION SECTIONS



SPECIAL SHEET
SHEET 5 OF 6

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 6/11/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	8

COUNTY NEWTON
JOB NO. J7P2202
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

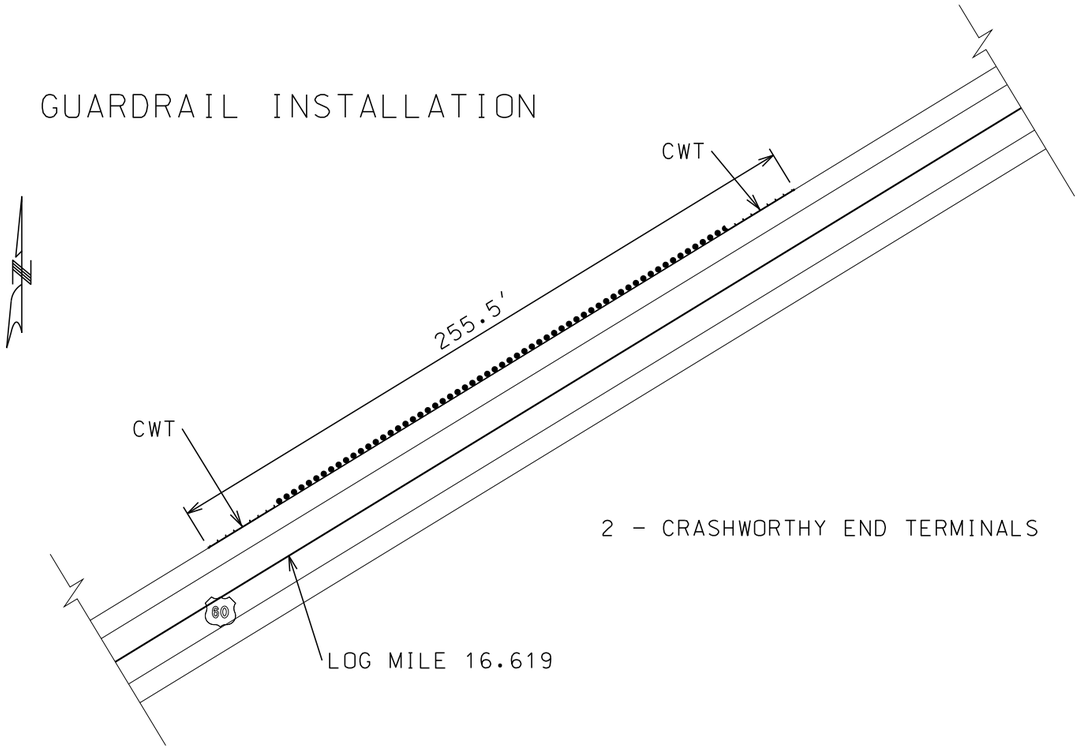
DESCRIPTION	DATE

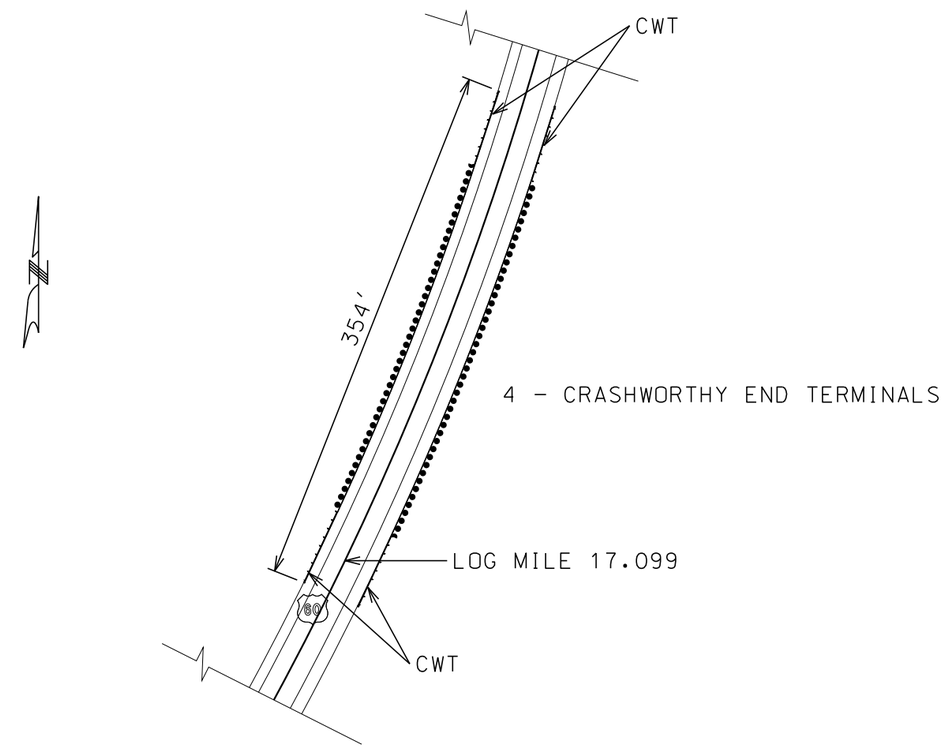
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

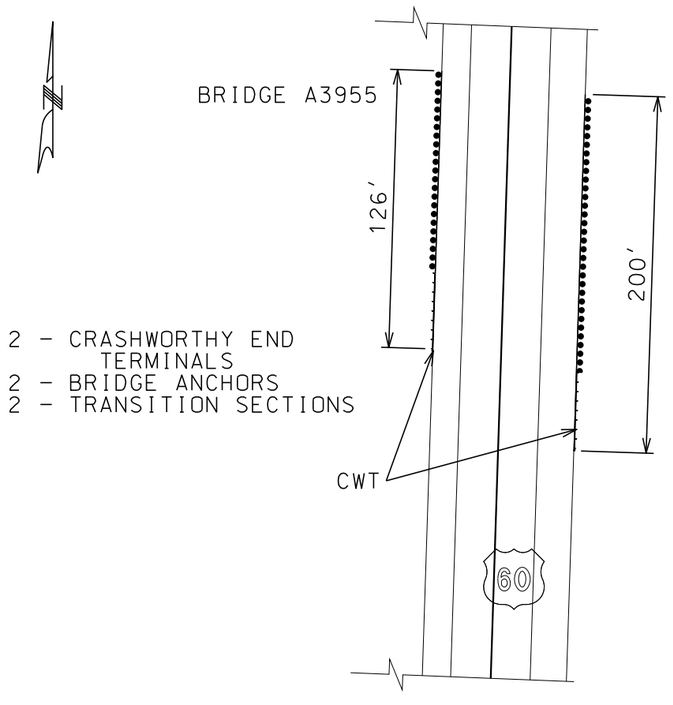
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

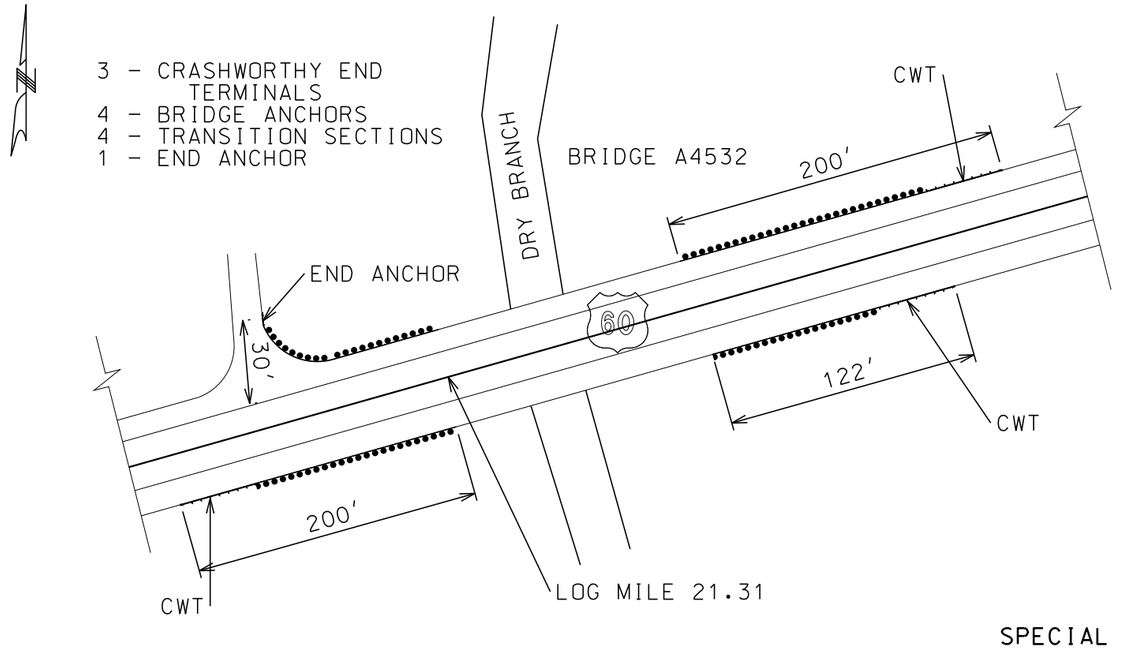
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

GUARDRAIL INSTALLATION









SPECIAL SHEET
SHEET 6 OF 6

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

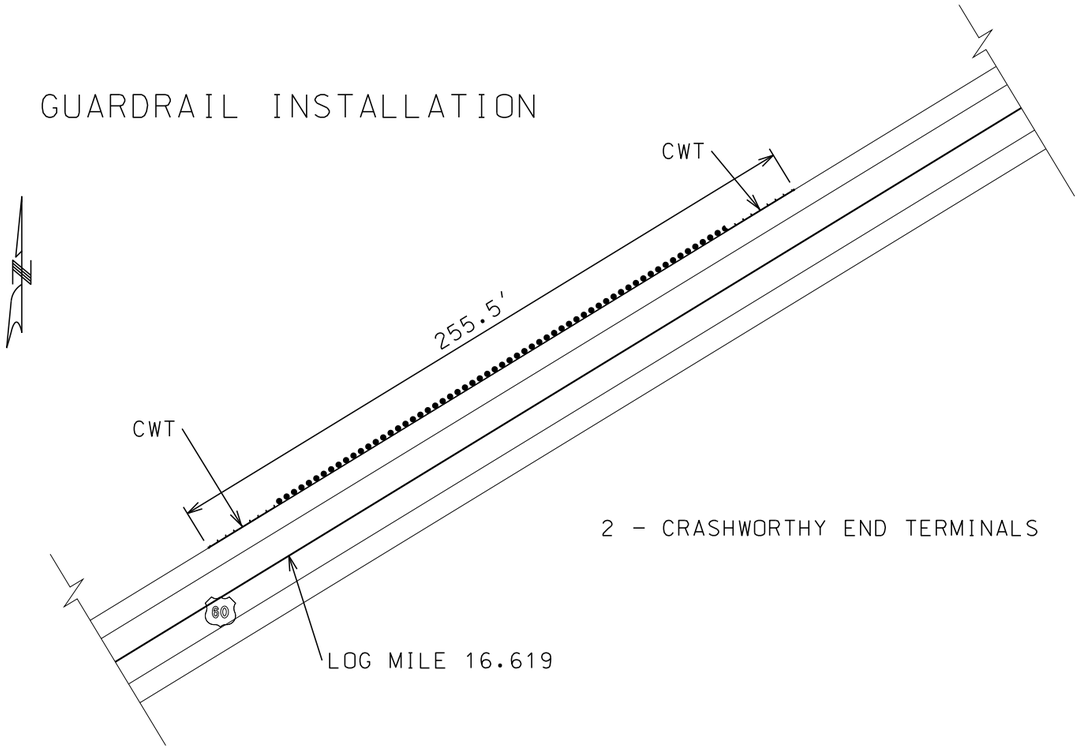
DATE PREPARED	
6/11/2014	
ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	9
COUNTY	
NEWTON	
JOB NO.	
J7P2202	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

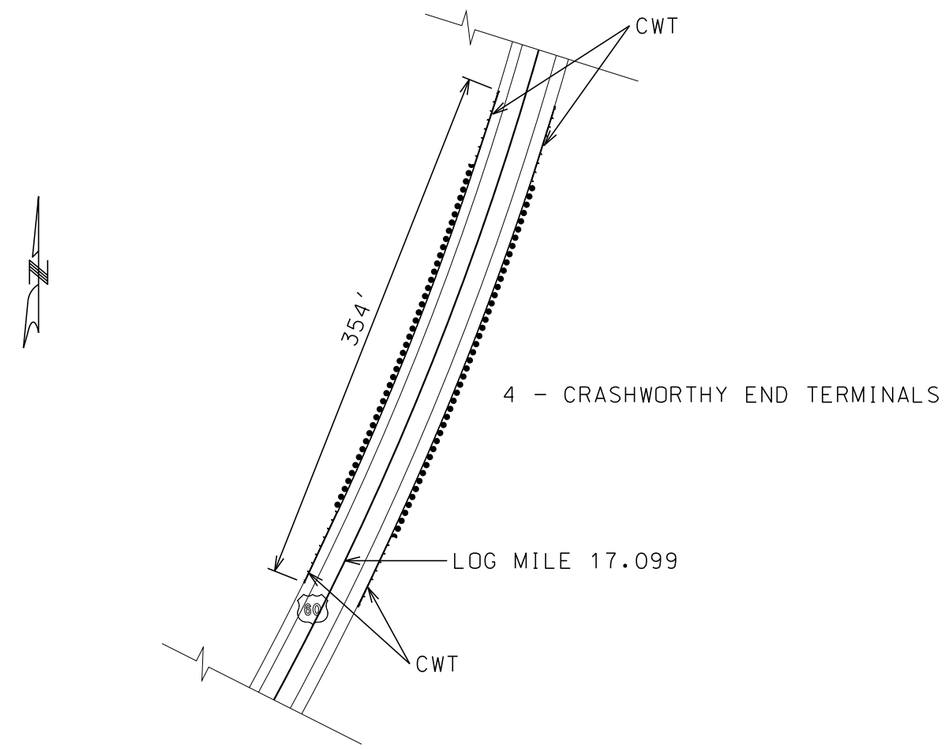
DESCRIPTION	DATE

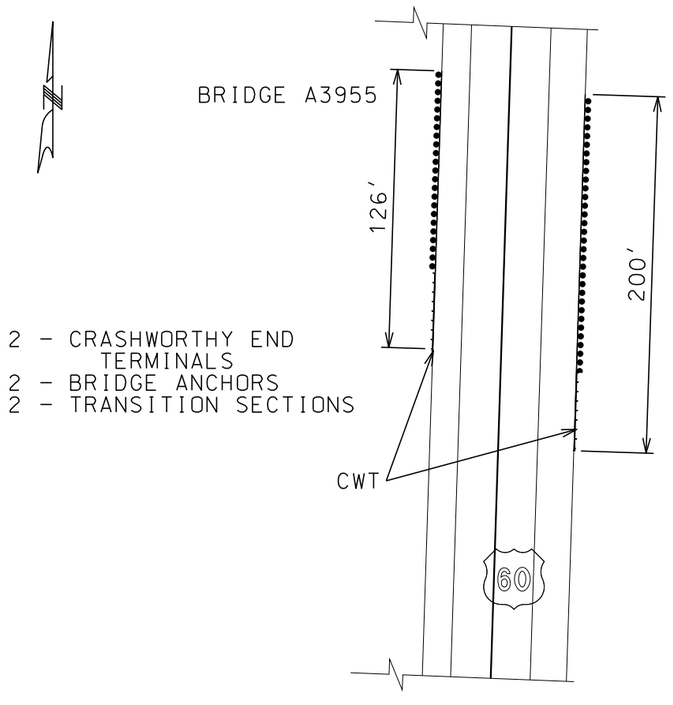
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

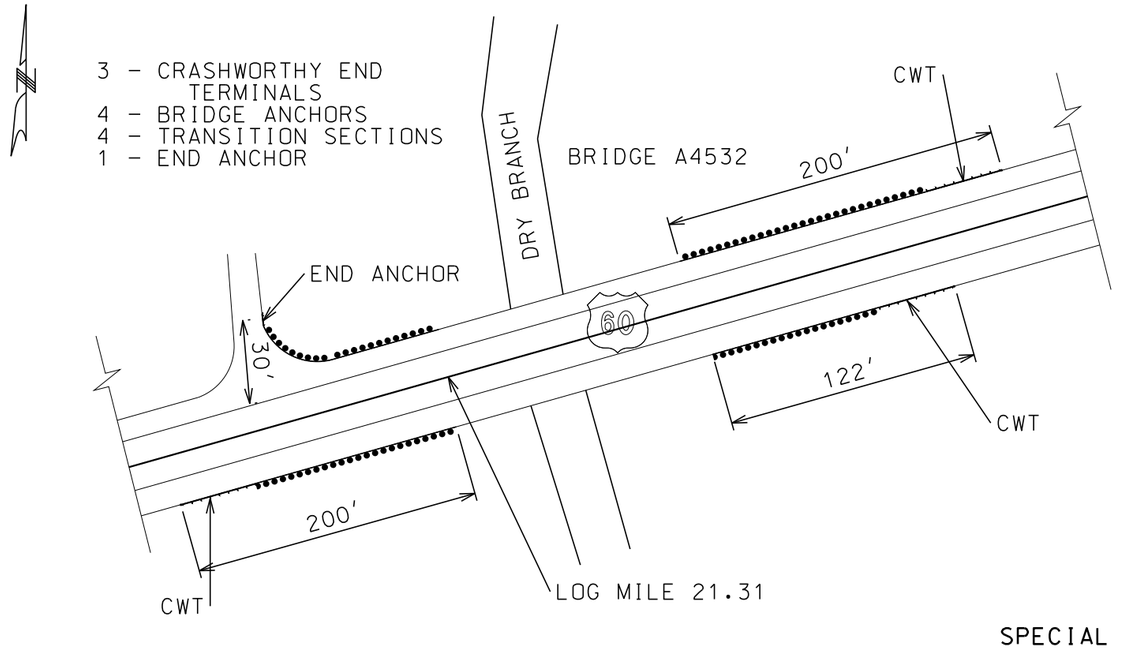
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

GUARDRAIL INSTALLATION









SPECIAL SHEET
SHEET 6 OF 6

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE PREPARED	
6/11/2014	
ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	9
COUNTY	
NEWTON	
JOB NO.	
J7P2202	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

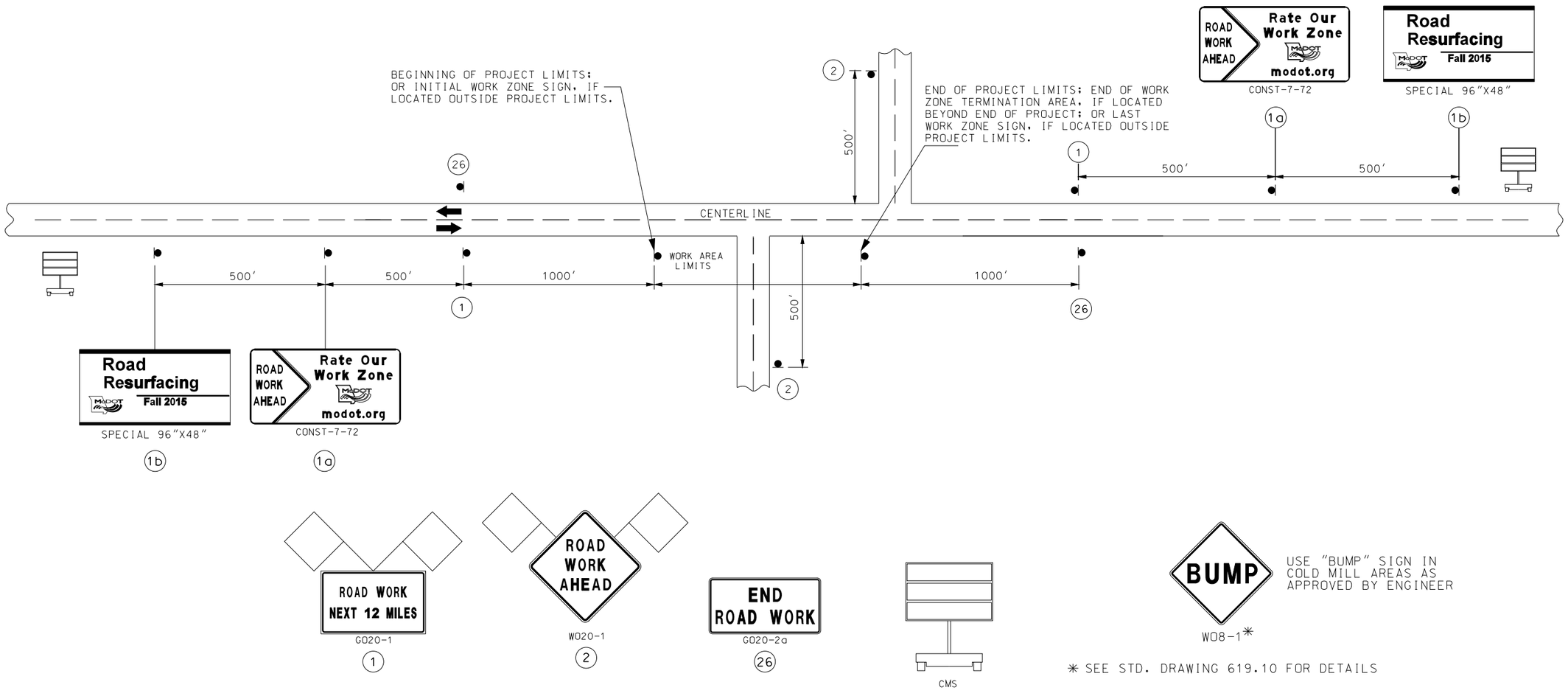
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

NOTES:

1. ANY EXIST. SIGNS THAT CONFLICT WITH TRAFFIC CONTROL PLAN SHALL BE COVERED.
2. TEMP. SIGNING SHOWN IS FOR WORK ON ONE SIDE OF THE ROAD. FOR WORK ON THE OTHER SIDE, REVERSE ORDER OF THE SIGNS AND CHANNELIZERS.
3. SIGNING SHOWN SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
4. ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER.
5. SEE STANDARD DRAWING 616.10, 619.10, AND 620.10 FOR ADDITIONAL DETAILS AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS.
6. SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT 1/2 MILE.
7. TEMPORARY SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED WHEN THE CONDITIONS REQUIRING REDUCED SPEEDS DO NOT EXIST.
8. NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, OR CONSTRUCTION SIGNS.
9. ALL SIGNS WITHIN THE FIRST ADVANCE WARNING AREA SHALL BE ENHANCED WITH FLAGS.
10. POINT OF PRESENCE (SPECIAL 96"X48") SIGN IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS. IF A VISIBLE LOCATION WITHIN THE PROJECT IS NOT AVAILABLE, THE SIGN MAY BE PLACED 500 FEET BEFORE CONST-7-72.



NOTES:

SIGN (1) IS ONLY USED ON PROJECT LENGTHS 2 MILES OR GREATER.

SIGN (26) MAY BE USED ON PROJECTS LESS THAN 2 MILES.

PROVIDE SIGNS IN EACH DIRECTION ON TWO-WAY HIGHWAY.

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

FLAGS WILL NOT BE REQUIRED ON SIGN (2) LOCATED ON SIDE ROADS.

TRAFFIC CONTROL
SHEET 1 OF 5

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 6/11/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	10

COUNTY NEWTON

JOB NO. J7P2202

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

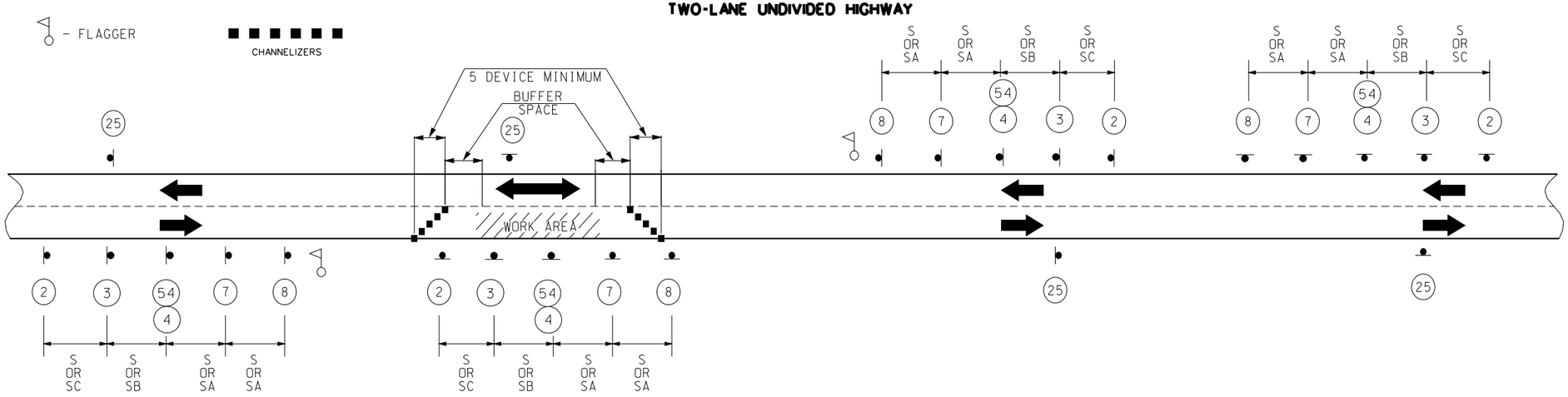
DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWO-WAY SINGLE LANE RESURFACING OPERATION
TWO-LANE UNDIVIDED HIGHWAY



SIGN SETS 1 AND 3 ARE ACTIVE AND (I.E., SIGNS FACE ONCOMING TRAFFIC).

SIGN SETS 2 AND 4 ARE INACTIVE (I.E., SIGNS DO NOT FACE EITHER DIRECTION OF TRAFFIC) WHEN THE RESURFACING OPERATION IS LOCATED BETWEEN SIGN SETS 1 AND 3.

WHEN SIGN SETS 2 AND 4 ARE ACTIVE, SIGN SETS 1 AND 3 BECOME INACTIVE AND ARE ADVANCED TO BECOME SETS 2 AND 4 WITH SIGN LEGENDS TURNED AWAY FROM BOTH DIRECTIONS OF TRAFFIC. WHEN THE RESURFACING OPERATION ADVANCES TO BETWEEN SIGN SETS 2 AND 4, SIGN SETS 2 AND 4 BECOME ACTIVE (I.E., NEW SIGN SETS 1 AND 3) AND SIGN SETS 1 AND 3 ADVANCED IN THE DIRECTION OF THE OPERATION (I.E., NEW SIGN SETS 2 AND 4).

SIGNS 3 AND 4 ARE OPTIONAL FOR THIS SET UP AND WILL BE PLACED ACCORDINGLY. SIGN 3 WILL ONLY BE USED WHERE SIGN 4 IS GREATER THAN 10 MPH BELOW THE POSTED SPEED OF SIGN 25

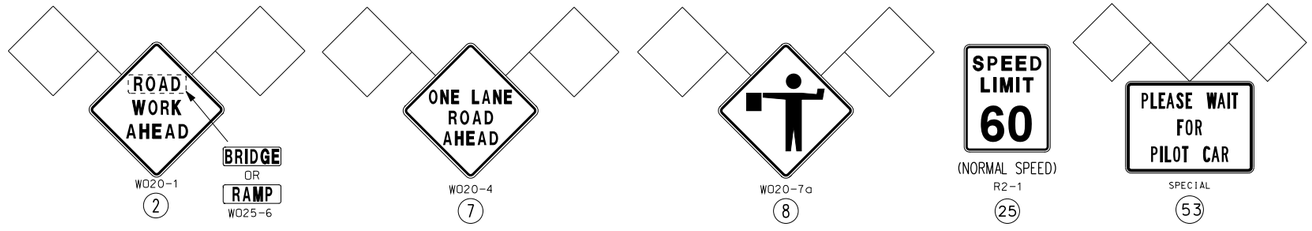
SIGNS ARE PROVIDED FOR AN ESTIMATED 4 MILES OF WORK (ESTIMATED 1 DAYS AMOUNT OF WORK). ALL OTHER SIGNS ARE INDENTAL TO THE PROJECT AND NO COST TO MODOT.

USE BEGIN/END PROJECT SIGNING SHEET DAYLIGHT FLAGGING OPERATIONS ONLY.

NO DIRECT PAYMENT WILL BE MADE FOR CONES, OR FOR THE RELOCATION OF CHANNELIZERS AS SHOWN ON THE PLANS. CONES ALLOWABLE FOR DAYLIGHT OPERATIONS ONLY.

CHANNELIZING DEVICES LOCATED DOWNSTREAM OF THE ONE-LANE, TWO-WAY TAPER ARE OPTIONAL. THESE DEVICES SHOULD BE ELIMINATED WHEN THEIR USE WILL REDUCE THE USABLE LANE WIDTH, INCLUDING ANY ACCEPTABLE SHOULDERS, TO LESS THAN 10'OR WILL SIGNIFICANTLY AFFECT THE RESURFACING OPERATION.

FLAG ASSEMBLIES FOR SIGNS WILL BE PAID FOR AS EACH PER SIGN. EXCEPT FOR SIGN W020-7 WHICH IS SUBSIDIARY TO THE SIGN.



(1) SIGN 53 "PILOT CAR FOLLOW ME" SHALL BE IN CONTRACTOR'S RESPONSIBILITY WHEN IN USE DURING CONSTRUCTION.

(2) SIGN 58 SHALL BE PLACED AT ALL SIDE ROADS. 150' FROM INTERSECTION

SIGN SPACING FOR ADVANCE SIGN SERIES (2) (3)		
SPEED (1) MPH	NON-DIVIDED HIGHWAYS	DIVIDED HIGHWAYS
0 - 35	200	200
40 - 45	350	500
50 - 55	500	1000
60 - 70	SA - 1000 FT. SB - 1500 FT. AND SC - 2640 FT.	

NOTES:

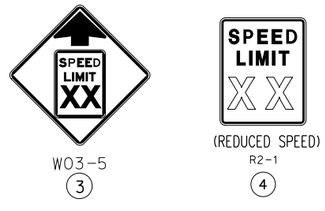
DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.

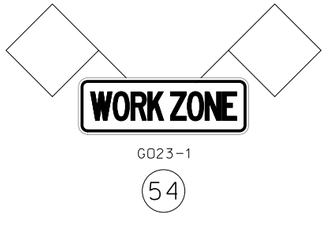
(1) POSTED SPEED LIMIT PRIOR TO ROAD WORK.

(2) SPACING BETWEEN SIGNS, BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER OR SIGNED CONDITION.

(3) SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

SPEED MPH	SHOULDER TAPER LENGTH (ft)	OPTIONAL BUFFER LENGTH (ft)
0-35	70 FT	250 FT
40-45	150 FT	360 FT
50-55	185 FT	495 FT
60-70	235 FT	730 FT





TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES					
SPEED MPH (S)	MINIMUM TAPER LENGTHS (L) FOR LATERAL SHIFTS (W)			MAXIMUM CHANNELIZER SPACING	
	10 FT	11 FT	12 FT	THROUGH TAPER	THROUGH WORK AREA
0-35	205FT	225FT	245FT	35FT	50FT
40-45	450FT	495FT	540FT	40FT	100FT
50-55	550FT	605FT	660FT	50FT	100FT
60-70	700FT	770FT	840FT	60FT	100FT

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 6/11/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	11

COUNTY NEWTON

JOB NO. J7P2202

CONTRACT ID.

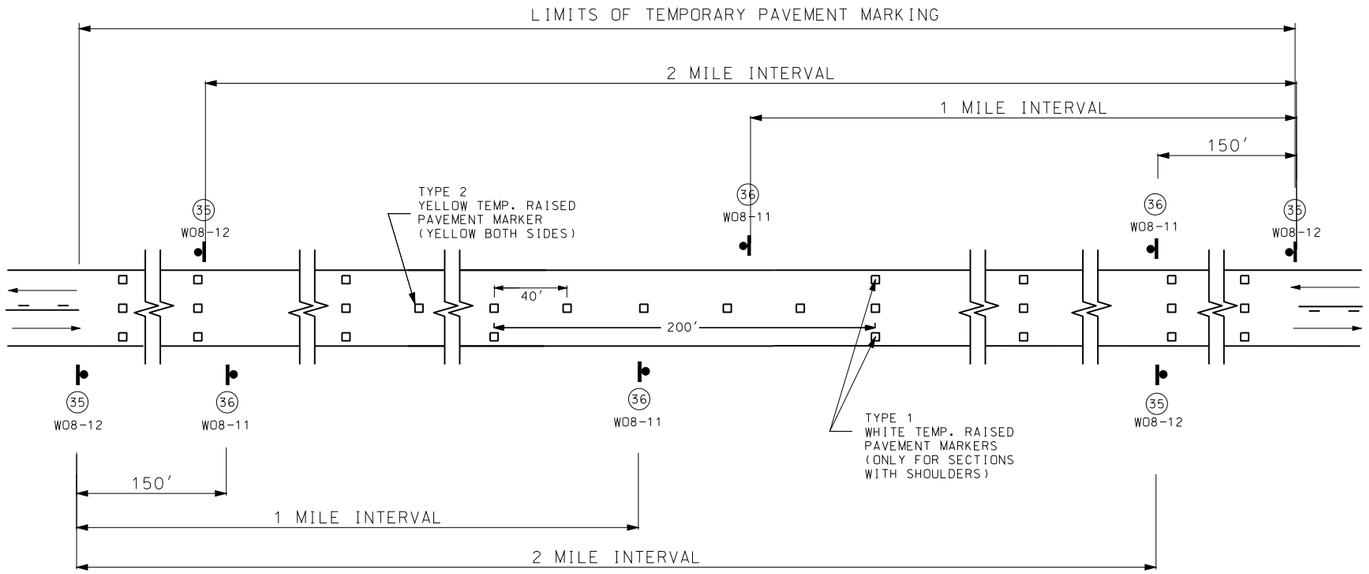
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



SIGN SPACING FOR MAINLINE



WO20-1
(2)



WO8-12
(35)

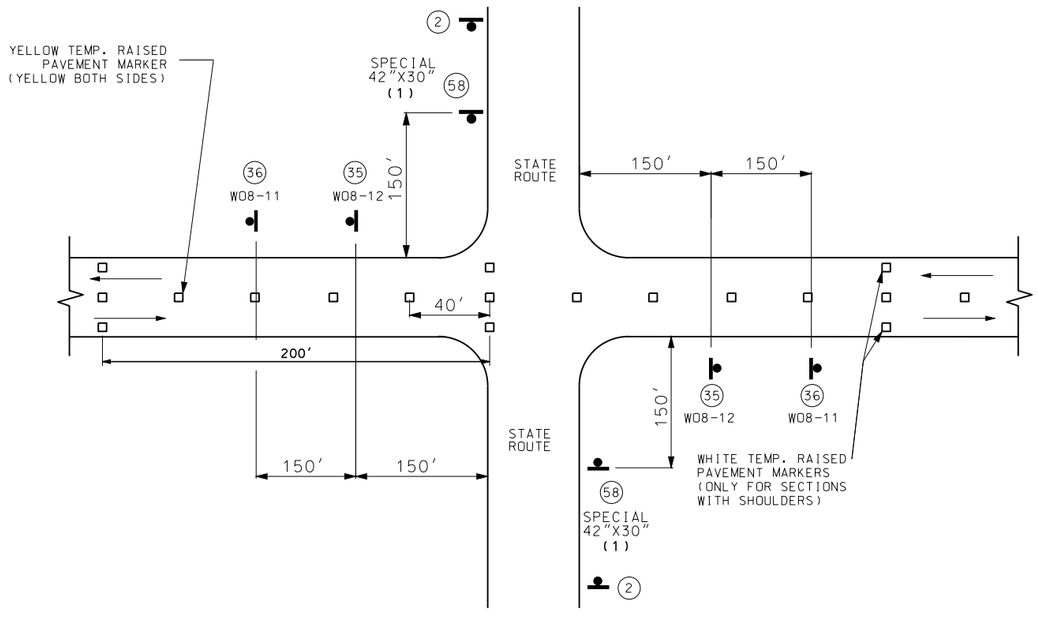


WO8-11
(36)



SPECIAL
42"X30"
(58) (1)

(1) ADDITIONAL SIDEROADS MAY BE SIGNED AS APPROVED BY THE ENGINEER.



SIGN SPACING AT STATE ROUTE INTERSECTIONS

NOTES:

SIGN (35) AND TEMPORARY PAVEMENT MARKING INSTALLED WHERE CENTERLINE STRIPING HAS BEEN COVERED OR REMOVED. SIGNS ARE TO REMAIN IN PLACE UNTIL THE PERMANENT CENTERLINE PAVEMENT MARKINGS ARE IN PLACE. SIGNS SHALL BE COVERED OR REMOVED WHEN PAVEMENT CENTERLINE MARKING HAS BEEN INSTALLED.

SIGN (35) IS PLACED AT APPROXIMATELY TWO-MILE INTERVALS AND AT STATE ROUTE JUNCTIONS. WHEN THE INSTALLATION AT A JUNCTION IS WITHIN ONE-EIGHTH MILE OF THE NORMAL MAINLINE SIGN (35), THE LATTER MAY BE ELIMINATED.

ALL SIGNS THAT ARE POST MOUNTED SHALL BE IN ACCORDANCE WITH STANDARD PLAN 616.10 AND 903.03.

TEMPORARY RAISED PAVEMENT MARKERS SHALL BE INSTALLED BY THE END OF EACH DAY.

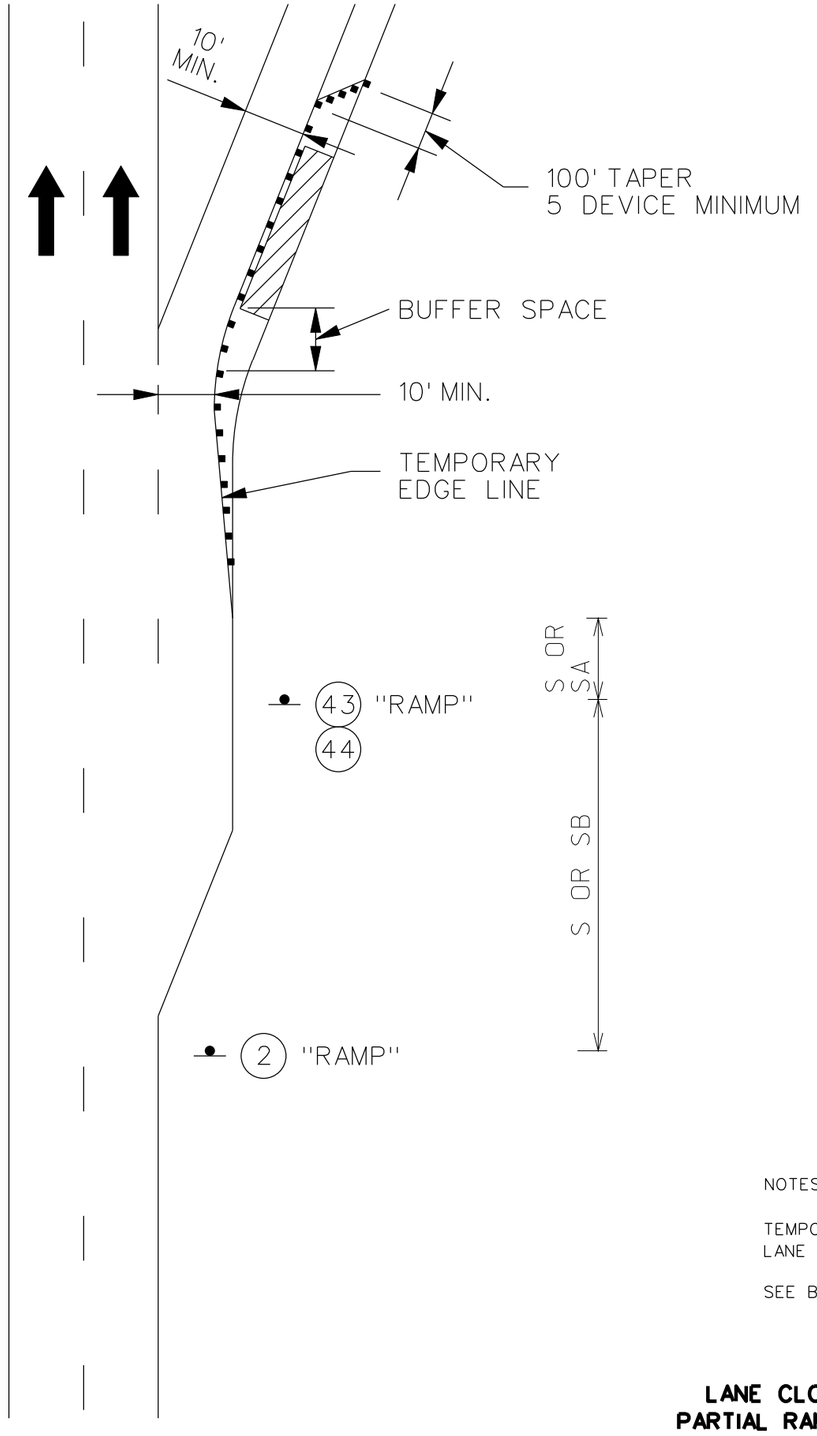
STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

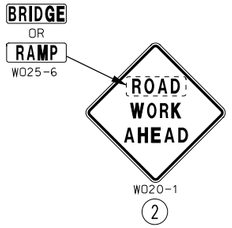
DATE PREPARED 6/11/2014
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. 12
COUNTY NEWTON
JOB NO. J7P2202
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

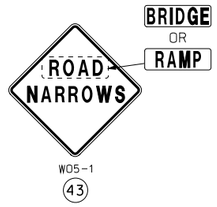
DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)











CHANNELIZERS

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES						
SPEED MPH (P)	MINIMUM TAPER LENGTHS (L) FOR LATERAL SHIFTS (W)			MAXIMUM CHANNELIZER SPACING		BUFFER LENGTH
	10 FT	11 FT	12 FT	THROUGH TAPER	THROUGH WORK AREA	
0-35	205 FT	225 FT	245 FT	35 FT	50 FT	250FT
40-45	450 FT	495 FT	540 FT	40 FT	100 FT	360FT
50-55	550 FT	605 FT	660 FT	50 FT	100 FT	495FT
60-70	700 FT	770 FT	840 FT	60 FT	100 FT	730FT

SIGN SPACING FOR ADVANCE SIGN SERIES SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION. SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.		
SPEED MPH (P)	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200 FT	200 FT
40-45	350 FT	500 FT
50-55	500 FT	1000 FT
60-70	SA-1000 FT, SB-1500 FT, SC-2640 FT	

TAPER LENGTH (L)

$L = W \times P$ FOR 40 MPH OR MORE

$L = \frac{WP^2}{60}$ FOR 35 MPH OR LESS

L = TAPER LENGTH IN FEET

W = LATERAL SHIFT IN FEET

P = POSTED SPEED PRIOR TO ROAD WORK IN MPH

NOTES:

TEMPORARY PAVEMENT MARKING OPTIONAL WITH SHORT TERM LANE CLOSURES.

SEE BEGIN/END OF PROJECT SIGNING SHEET FOR ADDITIONAL SIGNS.

LANE CLOSURE
PARTIAL RAMP LANE

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
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DATE PREPARED 6/11/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	13

COUNTY NEWTON

JOB NO. J7P2202

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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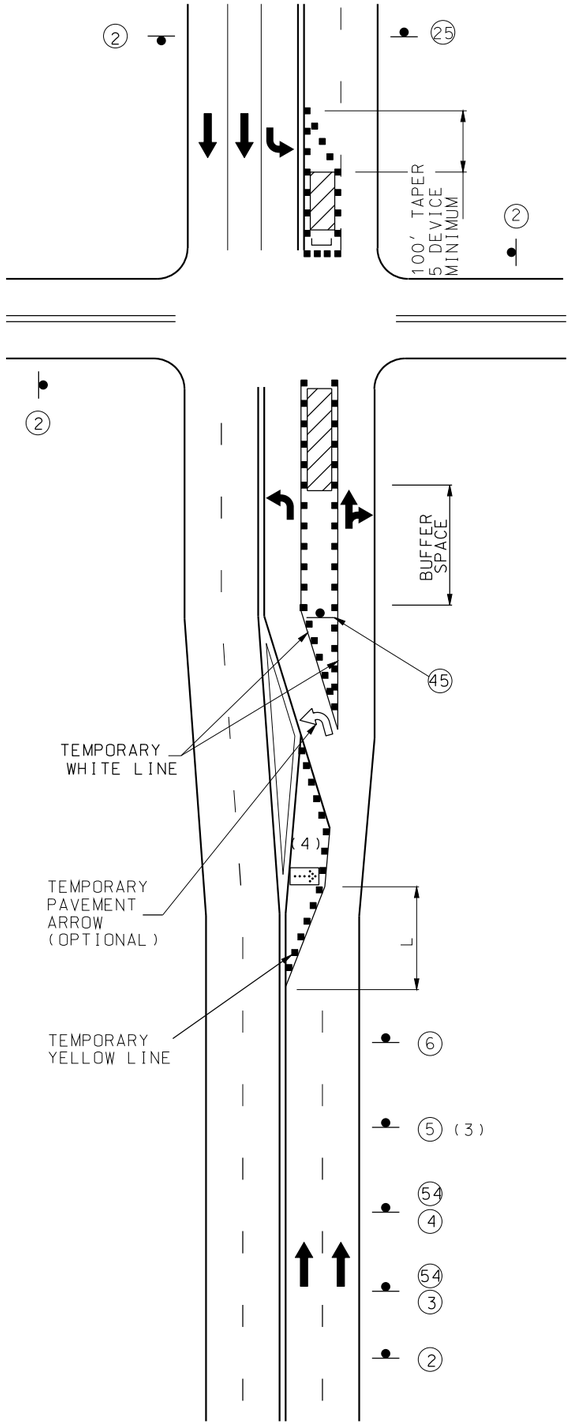
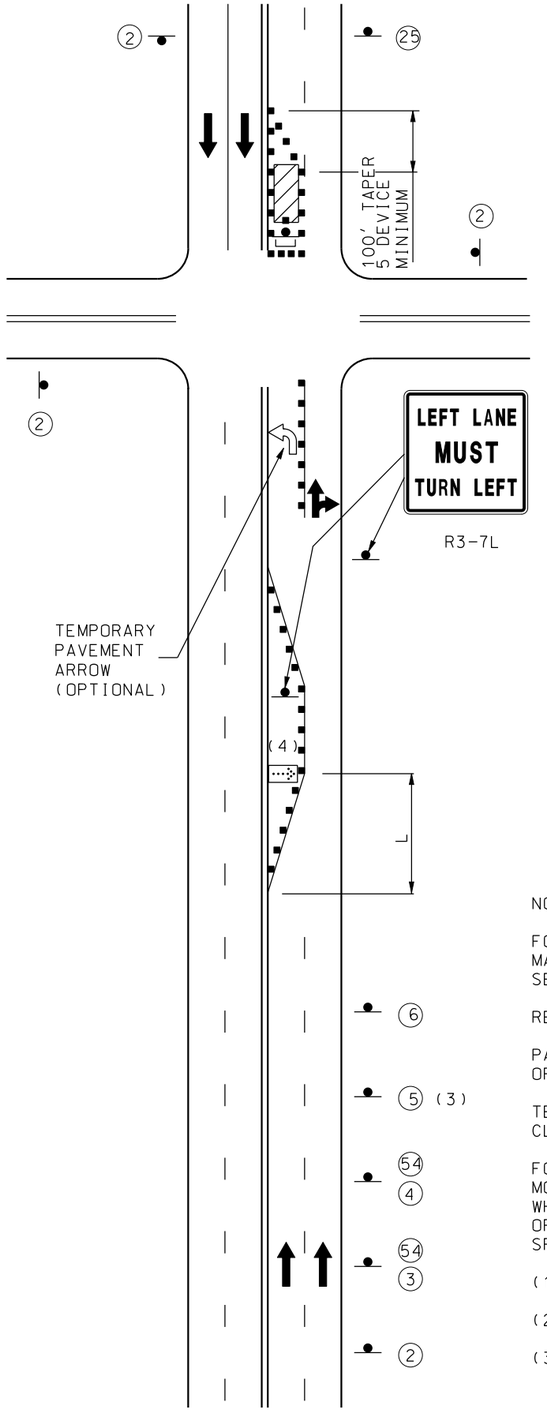
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



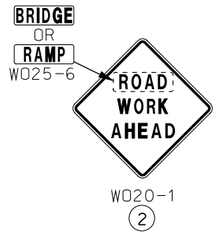
Work On Near Or Far Side



Work On Far Side Only

Left Lane at Intersection

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES						
SPEED MPH (P)	MINIMUM TAPER LENGTHS (L) FOR LATERAL SHIFTS (W)			MAXIMUM CHANNELIZER SPACING		BUFFER LENGTH
	10 FT	11 FT	12 FT	THROUGH TAPER	THROUGH WORK AREA	
0-35	205 FT	225 FT	245 FT	35 FT	50 FT	250FT
40-45	450 FT	495 FT	540 FT	40 FT	100 FT	360FT
50-55	550 FT	605 FT	660 FT	50 FT	100 FT	495FT
60-70	700 FT	770 FT	840 FT	60 FT	100 FT	730FT



W020-1
(2)



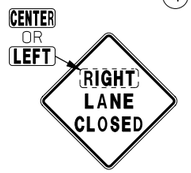
W03-5
(3)



R2-1
(4)



W020-5
(5)



W020-6a
(6)



(NORMAL SPEED)
R2-1
(25)



W012-1
(45)

SIGN SPACING FOR ADVANCE SIGN SERIES		
SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION. SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.		
SPEED MPH (P)	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200 FT	200 FT
40-45	350 FT	500 FT
50-55	500 FT	1000 FT
60-70	SA-1000 FT, SB-1500 FT, SC-2640 FT	

TAPER LENGTH (L)

L = W x P FOR 40 MPH OR MORE

L = $\frac{WP^2}{60}$ FOR 35 MPH OR LESS

L = TAPER LENGTH IN FEET

W = LATERAL SHIFT IN FEET

P = POSTED SPEED PRIOR TO ROAD WORK IN MPH

NOTES:

FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING, TIMING, INDICATIONS OR DETECTOR SETTINGS.

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

FOR SHORT TERM OPERATIONS, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, A 10' DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKING. ALL OTHER SPACINGS ARE ONE HALF OF THE SPACING SHOWN IN TABLE.

(1) SIGN (43) REQUIRED WHEN RAMP WIDTH IS REDUCED.

(2) CONES ALLOWABLE FOR DAYLIGHT OPERATIONS ONLY.

(3) SIGN (5) MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR THE FULL SIGN SERIES.

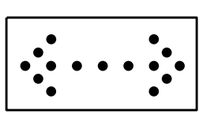
(4) THE FLASHING ARROW BOARD SHOULD BE LOCATED AT THE BEGINNING OF THE MERGING TAPER WHEN MEDIAN WIDTH ALLOWS THIS PLACEMENT.



CHANNELIZERS (2)



G023-1
(54)



FLASHING
ARROW PANEL

TRAFFIC CONTROL
SHEET 5 OF 5

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
6/11/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	14

COUNTY
NEWTON

JOB NO.
J7P2202

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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DESIGN DESIGNATION

A.A.D.T. - 2015 = 4014

T = 8%

V = 30 - 60 M.P.H.

FUNCTIONAL CLASSIFICATION - MAJOR ARTERIAL

NO NEW R.O.W. REQUIRED

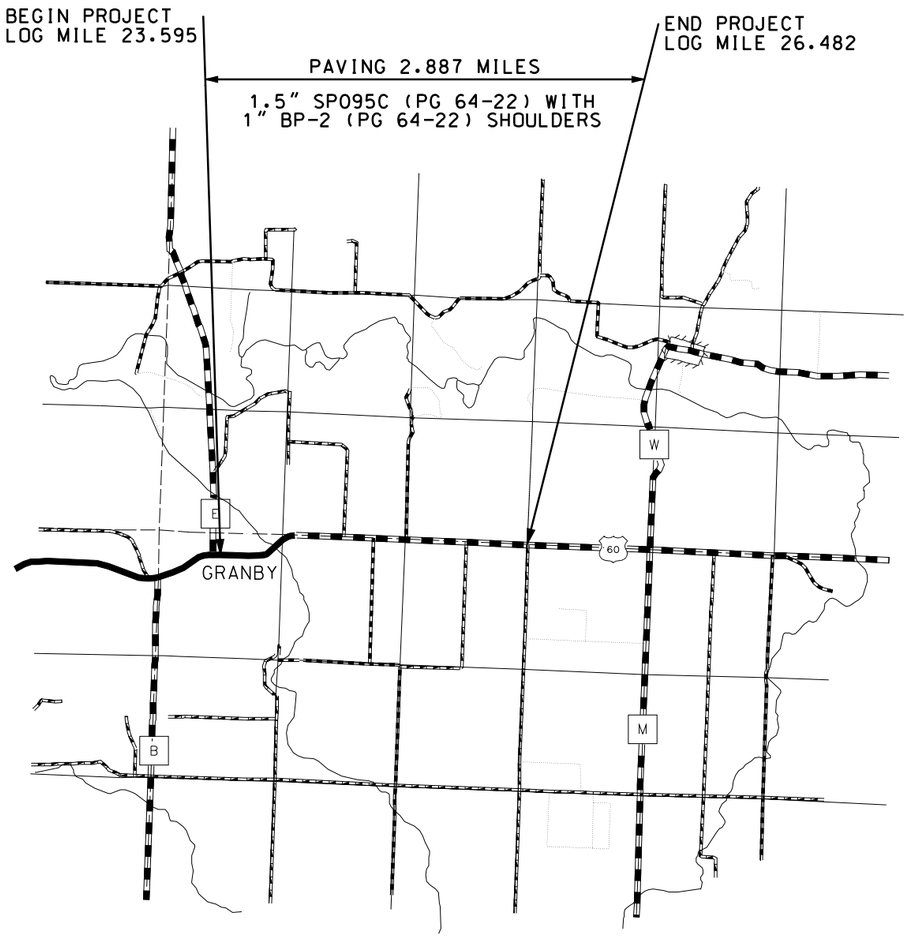
CONVENTIONAL SYMBOLS
(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	FO
OVERHEAD TELEPHONE		
UNDERGROUND TELEPHONE	-T-	T
OVERHEAD POWER		
UNDERGROUND POWER	-P-	P
GAS	-G-	G
WATER	-W-	W
MANHOLE	SAN	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
DROP INLET	DI	
DITCH BLOCK		
GROUND MOUNTED SIGN	SIGN	
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL	PED	
FENCE		
CHAIN LINK	-V-	
WOVEN WIRE	-X-	
GATE POST		
BENCHMARK	BM	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY

NEWTON COUNTY



INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (2 SHEETS)	2
QUANTITIES (QU) (3 SHEETS)	3
SPECIAL SHEETS (SS)	4-5
TRAFFIC CONTROL SHEETS (TC)	6-8

LENGTH OF PROJECT

BEGINNING OF PROJECT	LOG MILE 23.595
END OF PROJECT	LOG MILE 26.482
APPARENT LENGTH	15243.36 FEET
EQUATIONS AND EXCEPTIONS:	NONE
TOTAL CORRECTIONS	0.00 FEET
NET LENGTH OF PROJECT	15243.36 FEET
STATE LENGTH	2.887 MILES

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/9/2014

ROUTE	STATE
60	MO

DISTRICT	SHEET NO.
SW	1

COUNTY: NEWTON

JOB NO.: J7P2203

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

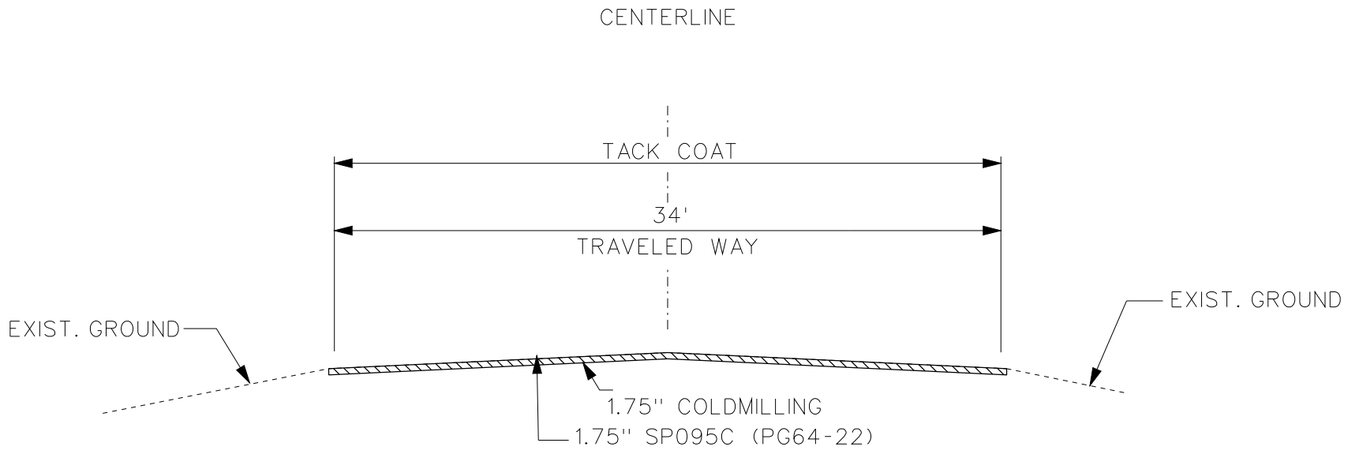
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

$FILE$ $TIME$ 7/9/2014

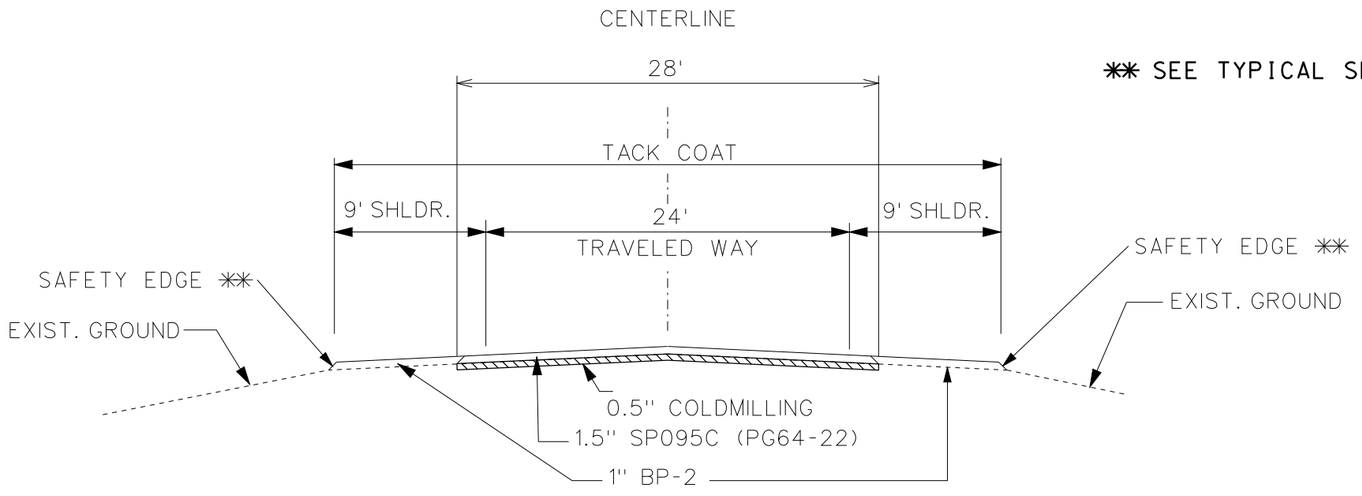


TACK RATE
0.08 GAL/SY

PAVEMENT FACTORS		
	SP095C	BP-2
	TONS/CY	TONS/CY
COMBINED FACTOR	1.945	1.978
% AC	5.6	5.3

ROUTE 60

LOG MI. 23.595 TO LOG MI. 23.855



** SEE TYPICAL SECTION SHEET 2 OF 2 FOR SAFETY EDGE DETAIL

ROUTE 60

LOG MI. 23.855 TO LOG MI. 26.482

TYPICAL SECTION
SHEET 1 OF 2

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

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DATE PREPARED: 7/9/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	2

COUNTY: NEWTON

JOB NO.: J7P2203

CONTRACT ID.:

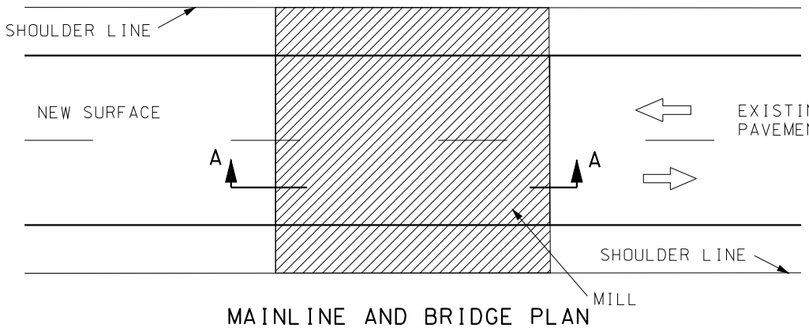
PROJECT NO.:

BRIDGE NO.:

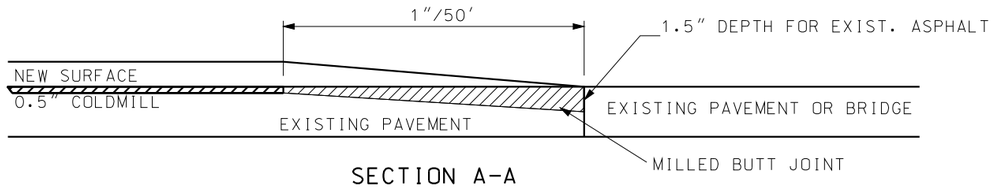
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

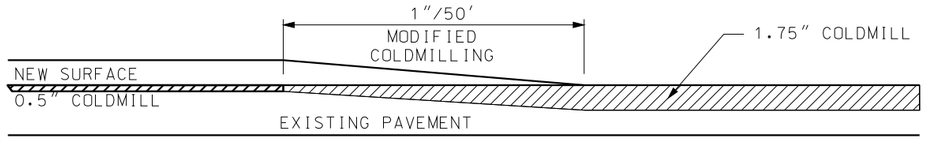


MAINLINE AND BRIDGE PLAN



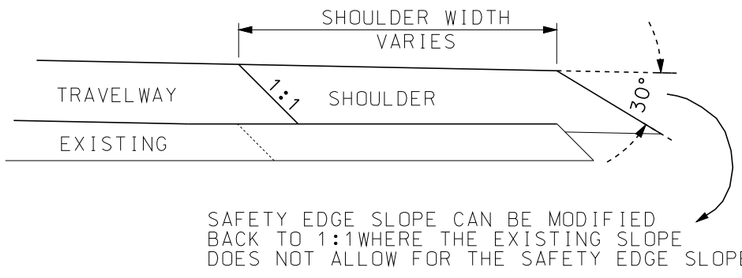
SECTION A-A

TRANSVERSE JOINT TRANSITION FOR SINGLE LIFT PROJECT BEGINNING, END, RAMP OR BRIDGE

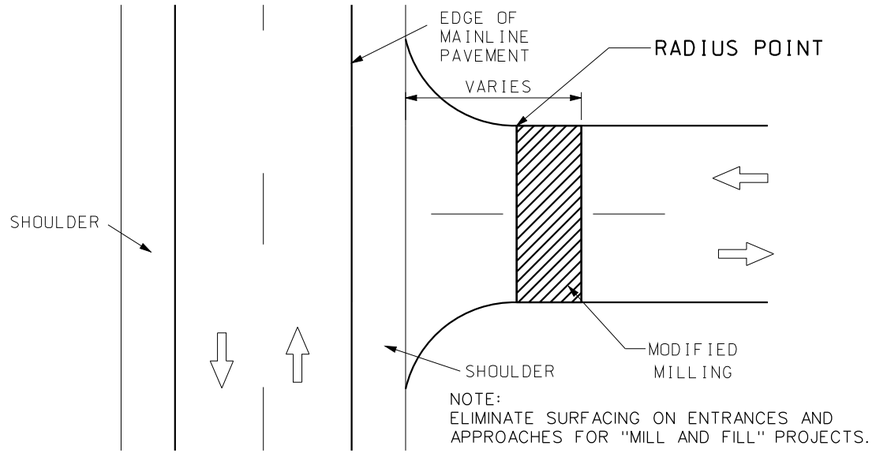


SECTION A-A

TRANSITION FROM 0.5" COLDMILLING TO 1.75" COLDMILLING



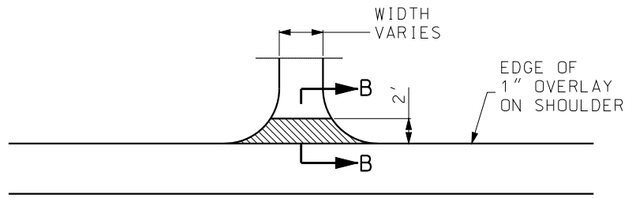
SAFETY EDGE SLOPE DETAIL



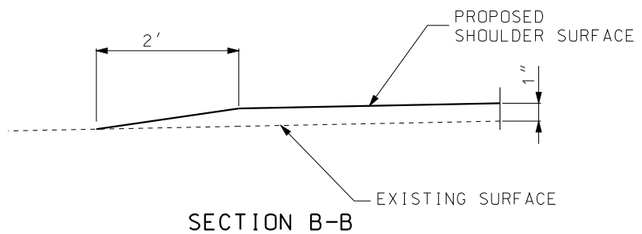
NOTE:
ELIMINATE SURFACING ON ENTRANCES AND APPROACHES FOR "MILL AND FILL" PROJECTS.

MODIFIED MILLING VARIES
FROM THE RADIUS POINT:
1" ASPHALT = 20' TRANSITION
1 1/4" ASPHALT = 30' TRANSITION
1 3/4" ASPHALT = 50' TRANSITION

SURFACING REQUIREMENTS FOR OVERLAYS AT STATE ROADS



TYPICAL ENTRANCE
(FIELD, PRIVATE OR COUNTY ROAD)



SECTION B-B

PAVEMENT DEPTH TRANSITION

TYPICAL SECTION
SHEET 2 OF 2

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
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DATE PREPARED 7/9/2014
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. 2
COUNTY NEWTON
JOB NO. J7P2203
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

1.75" SP095C (PG 64-22)						
BEGIN LOG MILE	END LOG MILE	LENGTH LF	WIDTH LF	OVERLAY TONS	TACK GAL	REMARKS
23.595	23.855	1372.8	34.0	490.3	410	START AT RTE E IN GRANBY
			SUBTOTAL 3	490.3	410	

MOBILIZATION
TOTAL = 1 LUMP SUM

CONTRACTOR SURVEYING AND STAKING
TOTAL = 1 LUMP SUM

REMOVAL OF IMPROVEMENTS (EXISTING GUARDRAIL)					
BEGIN LOG MILE	END LOG MILE	DIRECTION	LOCATION	QUANTITY LF	REMARKS
25.239	25.243	EB	LT	25	REMOVE TURN DOWN
25.279	25.284	EB	LT	25	REMOVE TURN DOWN
			TOTAL	1 LUMP SUM	

MODIFIED COLDMILLING (DEPTH TRANSITION)				
LOG MILE	PAVEMENT WIDTH	TRANSITION LENGTH	AREA SY	REMARKS
23.855	34.0	50.0	189	TRANSITION FROM 1.75" MILL TO 0.5" MILL
26.463	42.0	50.0	233	TRANSITION FROM 0.5" MILL TO 1.5"
		TOTAL	422	
		USE	422	

COLDMILLING QUANTITIES					
BEGIN LOG MILE	END LOG MILE	AVG WIDTH LF	LENGTH LF	COLDMILL SY	REMARKS
0.5" COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (3 IN. THICK OR LESS)					
23.855	26.482	28.0	13870.6	43153	
1.75" COLDMILLING BITUMINOUS PAVEMENT FOR REMOVAL OF SURFACING (3 IN. THICK OR LESS)					
23.595	23.855	34.0	1372.8	5186	
				SUBTOTAL 48339	
				USE 48339	

TYPE A GUARDRAIL, 7 FT POSTS								
BEGIN LOG MILE	END LOG MILE	DIRECTION	LOCATION	LENGTH LF	TYPE A GUARDRAIL LF	CRASHWORTHY TERMINAL SECTION EACH	END ANCHOR EACH	REMARKS
25.239	25.243	EB	LT			1		REPLACE TURN DOWN WITH CWT
25.279	25.284	EB	LT	100	100		1	EXTEND GUARDRAIL AND WRAP ENTRANCE RADIUS
				TOTAL	100	1	1	

1.5" ASPHALTIC CONCRETE PAVEMENT - SP095C (PG 64-22)						
BEGIN LOG MILE	END LOG MILE	LENGTH LF	WIDTH LF	OVERLAY TONS	TACK GAL	REMARKS
23.855	26.482	13870.6	28.0	3497.2	3440	
			SUBTOTAL 2	3497.2	3440	
			SUBTOTAL 3	490.3	410	1.75" SP095C
			SUBTOTAL	197.0		IRREGULARITIES ONLY, MAY BE UNDERRUN
					1750	TACK FOR 1" BP-2
			USE	4184.5	5600	
SP095C ESTIMATED AT 1.945 TONS PER CUBIC YARD						
TACK ESTIMATED AT 0.08 GALLONS PER SQUARE YARD						
5.6% ASPHALT CONTENT						
IRREGULARITIES FIGURED AT 75 TONS PER MILE						

1" BP-2 (PG 64-22) SHOULDERS						
BEGIN LOG MILE	END LOG MILE	LENGTH LF	WIDTH LF	OVERLAY TONS	TACK GAL	REMARKS
23.855	26.482	13870.6	14.0	1185.5	1720	
			SUBTOTAL	1185.5	1720	
			SUBTOTAL 1	35.2	30	ENTRANCES
			SUBTOTAL	1209.2		ADD 2% FOR SAFETY EDGE
			SUBTOTAL	52.5		IRREGULARITIES ONLY, MAY BE UNDERRUN
			TACK SUBTOTAL		1750	
			USE	1297.0		
BP-2 ESTIMATED AT 1.978 TONS PER CUBIC YARD						
TACK ESTIMATED AT 0.08 GALLONS PER SQUARE YARD						
5.3% ASPHALT CONTENT						
IRREGULARITIES FIGURED AT 20 TONS PER MILE						

SUMMARY SHEET
SHEET 1 OF 3

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
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DATE PREPARED 7/10/2014
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY NEWTON
JOB NO. J7P2203
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

CENTERLINE RUMBLE STRIPS			
BEGIN LOG MILE	END LOG MILE	STA	REMARKS
24.374	26.482	111.3	
TOTAL		111.3	
USE		111.3	

SHOULDER RUMBLE STRIPS				
BEGIN LOG MILE	END LOG MILE	EBL STA	WBL STA	REMARKS
24.374	26.482	111.3	111.3	
		-19.7	-47.7	ENTRANCES EXCEPTION
TOTAL		91.6	63.6	
USE		155.2		

TEMPORARY RAISED PAVEMENT MARKERS, TYPE 2				
LOG MILE	LOG MILE	LOCATION	EACH	REMARKS
23.595	26.482	CL	381	YELLOW
TOTAL			381	
USE			381	

TEMPORARY RAISED PAVEMENT MARKERS, TYPE 1				
LOG MILE	LOG MILE	LOCATION	EACH	REMARKS
23.595	26.482	LT & RT	457	WHITE
TOTAL			457	
USE			457	

TYPE 2 PREFORMED MIDBLOCK GOOVED, 30"		
LOG MILE	EACH	REMARKS
23.703	5	COLE STREET
TOTAL	5	

✳ PERMANENT CENTERLINE & EDGELINE
PAVEMENT MARKING COMPLETED BY OTHERS

ENTRANCES				
LOG MILE	LOCATION	WIDTH LF	OVERLAY TONS	TACK GAL
23.884	RT	44	0.8	0.78
23.943	RT	22	0.4	0.39
23.943	LT	38	0.7	0.68
23.983	RT	22	0.4	0.39
23.983	LT	28	0.5	0.50
24.003	LT	34	0.6	0.60
24.023	RT	79	1.4	1.40
24.062	RT	66	1.2	1.17
24.202	LT	80	1.5	1.42
24.222	RT	54	1.0	0.96
24.282	LT	44	0.8	0.78
24.302	LT	31	0.6	0.55
24.322	LT	22	0.4	0.39
24.322	LT	29	0.5	0.52
24.402	LT	26	0.5	0.46
24.421	LT	32	0.6	0.57
24.461	LT	24	0.4	0.43
24.541	LT	40	0.7	0.71
24.561	RT	100	1.8	1.78
24.600	RT	58	1.1	1.03
24.701	LT	44	0.8	0.78
24.780	LT	46	0.8	0.82
24.800	LT	22	0.4	0.39
24.860	LT	39	0.7	0.69
24.959	RT	72	1.3	1.28
24.999	LT	77	1.4	1.37
25.059	LT	48	0.9	0.85
25.099	RT	35	0.6	0.62
25.119	RT	58	1.1	1.03
25.159	LT	30	0.5	0.53
25.219	LT	46	0.8	0.82
25.299	LT	22	0.4	0.39
25.318	LT	26	0.5	0.46
25.338	RT	72	1.3	1.28
25.358	LT	41	0.8	0.73
25.617	LT	28	0.5	0.50
25.717	RT	68	1.2	1.21
25.939	LT	26	0.5	0.46
26.216	LT	76	1.4	1.35
26.216	RT	67	1.2	1.19
26.395	LT	40	0.7	0.71
26.435	LT	48	0.9	0.85
26.455	LT	35	0.6	0.62
SUBTOTAL 1		35.2		30

STATE OF MISSOURI
STACY MARIE REESE
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ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY NEWTON
JOB NO. J7P2203
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE | DESCRIPTION | REV.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EFFECTIVE: 08-01-2012

SIGN	SIZE (IN.)	AREA (SQ. FT.)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION
WARNING SIGNS							
W01-1L	48X48	16.00					TURN (SYMBOL LEFT ARROW)
W01-1R	48X48	16.00					TURN (SYMBOL RIGHT ARROW)
W01-2L	48X48	16.00					CURVE (SYMBOL LEFT ARROW)
W01-2R	48X48	16.00					CURVE (SYMBOL RIGHT ARROW)
W01-3L	48X48	16.00					REVERSE TURN (SYMBOL LEFT ARROW)
W01-3R	48X48	16.00					REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4L	48X48	16.00					REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4R	48X48	16.00					REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4bL	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
W01-4bR	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
W01-4cL	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
W01-4cR	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
W01-6	60X30	12.50					HORIZONTAL ARROW (SYMBOL)
W01-6a	72X36	18.00					HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE)
W01-7	60X30	12.50					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	72X36	18.00					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE)
W01-8	18X24	3.00					CHEVRON (SYMBOL)
W01-8a	30X36	7.50					CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
W03-1	48X48	16.00					STOP AHEAD (SYMBOL)
W03-2	48X48	16.00					YIELD AHEAD (SYMBOL)
W03-3	48X48	16.00					SIGNAL AHEAD (SYMBOL)
W03-4	48X48	16.00					BE PREPARED TO STOP
W03-5	**48X48**	**16.00**	4	64			**SPEED LIMIT AHEAD (3)**
W04-1L	48X48	16.00					MERGE (SYMBOL FROM LEFT)
W04-1R	48X48	16.00					MERGE (SYMBOL FROM RIGHT)
W05-1	48X48	16.00					ROAD/BRIDGE/RAMP NARROWS
W05-3	48X48	16.00					ONE LANE BRIDGE
W05-5	48X48	16.00					NARROW LANES
W06-1	48X48	16.00					DIVIDED HIGHWAY (SYMBOL)
W06-2	48X48	16.00					DIVIDED HIGHWAY END (SYMBOL)
W06-3	48X48	16.00					TWO WAY TRAFFIC (SYMBOL)
W07-3a	30X24	5.00					NEXT XX MILES (PLAQUE)
W08-1	**48X48**	**16.00**	6	96			**BUMP**
W08-2	48X48	16.00					DIP
W08-3	48X48	16.00					PAVEMENT ENDS
W08-4	48X48	16.00					SOFT SHOULDER
W08-5	48X48	16.00					SLIPPERY WHEN WET (SYMBOL)
W08-6	48X48	16.00					TRUCK CROSSING WITH FLAGS
W08-6c	48X48	16.00					TRUCK ENTRANCE
W08-7	36X36	9.00					LOOSE GRAVEL
W08-9	48X48	16.00					LOW SHOULDER
W08-11	**48X48**	**16.00**	4	64			**UNEVEN LANES (36)**
W08-12	**48X48**	**16.00**	2	32			**NO CENTER LINE (35)**
W10-1	42 RND.	9.62					RAILROAD CROSSING
W012-1	24X24	4.00					DOUBLE DOWN ARROW (SYMBOL)
W012-2	48X48	16.00					LOW CLEARANCE (SYMBOL)
W012-2x	24X18	3.00					LOW CLEARANCE (PLAQUE)
W012-2a	84X24	14.00					OVERHEAD LOW CLEARANCE (FEET AND INCHES)
W08-15	48X48	16.00					GROOVED PAVEMENT
W08-15p	30X24	5.00					MOTORCYCLE (PLAQUE)
W08-17	48X48	16.00					SHOULDER DROP-OFF (SYMBOL)
W08-17p	30X24	5.00					SHOULDER DROP-OFF (PLAQUE)
SPECIAL	120X60	50.00					LOW CLEARANCE XX FT XX IN XX MILES AHEAD
SPECIAL	120X60	50.00					WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
W013-1	30X30	6.25					ADVISORY SPEED (PLAQUE)
W016-2	30X24	5.00					XXX FEET (PLAQUE)
W016-3	30X24	5.00					X MILE (PLAQUE)
W020-1	**48X48**	**16.00**	22	352			**ROAD/BRIDGE/RAMP WORK AHEAD (2)**
W020-2	48X48	16.00					DETOUR AHEAD
W020-3	48X48	16.00					ROAD CLOSED AHEAD
W020-4	**48X48**	**16.00**	4	64			**ONE LANE ROAD AHEAD (7)**
W020-5	48X48	16.00					RIGHT/CENTER/LEFT LANE CLOSED AHEAD

SIGN	SIZE (IN.)	AREA (SQ. FT.)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION
W020-5a	48X48	16.00					2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
W020-6a	48X48	16.00					RIGHT/CENTER/LEFT LANE CLOSED
W020-7a	**48X48**	**16.00**	6	96			**FLAGGER (SYMBOL) WITH FLAGS (8)**
W021-2	36X36	9.00					FRESH OIL
W021-5b	48X48	16.00					SHOULDER WORK AHEAD
W022-1	48X48	16.00					BLASTING ZONE AHEAD
W022-2	42X36	10.50					TURN OFF 2-WAY RADIO AND PHONE
W022-3	42X36	10.50					END BLASTING ZONE
W022-6e	21X15	2.19					WET PAINT (ARROW PIVOTS)
GUIDE SIGNS							
SPECIAL	36X36	9.00					FRESH OIL/LOOSE GRAVEL
E05-1	36X48	12.00					GORE EXIT
E05-2	48X36	12.00					EXIT OPEN
E05-2a	48X36	12.00					EXIT CLOSED
G020-1	**60X24**	**10.00**	2	20			**ROAD WORK NEXT 3 MILES (1)**
G020-2	**48X24**	**8.00**	2	16			**END ROAD WORK (26)**
G020-4	**36X18**	**4.50**	1	4.50			**PILOT CAR FOLLOW ME (53)**
SPECIAL	**42X30**	**8.75**	6	52.5			**PLEASE WAIT FOR PILOT CAR (58)**
G020-5aP	**36X24**	**6.00**	4	24			**WORK ZONE (PLAQUE) (54)**
M04-8a	24X18	3.00					END DETOUR
M04-9L	48X36	12.00					DETOUR (LEFT ARROW)
M04-9R	48X36	12.00					DETOUR (RIGHT ARROW)
M04-10L	48X18	6.00					DETOUR (ARROW LEFT)
M04-10R	48X18	6.00					DETOUR (ARROW RIGHT)
REGULATORY SIGNS							
R1-1	48X48	13.25					STOP
R1-2	48 TRI.	6.93					YIELD
R1-2a	36X36	9.00					TO ONCOMING TRAFFIC (PLAQUE)
R1-3	20X9	1.25					X-WAY (PLAQUE)
R2-1	**36X48**	**12.00**	12	144			**SPEED LIMIT (4-60,4-50,2-45,2-35) (25) (4)**
R3-1	48X48	16.00					NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00					NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00					NO TURNS
R3-4	48X48	16.00					NO U-TURN (SYMBOL)
R3-7L	30X30	6.25					LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25					RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00					DO NOT PASS
R4-2	36X48	12.00					PASS WITH CARE
R4-7aL	36X48	12.00					KEEP LEFT (HORIZONTAL ARROW)
R4-7a	36X48	12.00					KEEP RIGHT (HORIZONTAL ARROW)
R5-1	30X30	6.25					DO NOT ENTER
R5-1a	36X24	6.00					WRONG WAY
R6-1L	48X18	6.00					ONE WAY ARROW (LEFT)
R6-1R	48X18	6.00					ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00					ONE WAY (LEFT)
R6-2R	24X30	5.00					ONE WAY (RIGHT)
R10-6	24X36	6.00					STOP HERE ON RED (45° ARROW)
R11-2	48X30	10.00					ROAD CLOSED
R11-3a	60X30	12.50					ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50					ROAD CLOSED TO THRU TRAFFIC
S4-4	36X15	3.75					WHEN FLASHING
CONST-3A	60X48	20.00					FINE SIGN
CONST-3X	56X12	4.67					SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS							
SPECIAL	36X48	12.00					POINT OF PRESENCE
SPECIAL	**96X48**	**32.00**	2	64			**POINT OF PRESENCE (1b)**
CONST-7-48	48X24	8.00					RATE OUR WORK ZONE
CONST-7-72	**72X36**	**18.00**	2	36			**RATE OUR WORK ZONE (1a)**
616-10.05 CONSTRUCTION SIGNS TOTAL				USE 1129			
616-10.10 RELOCATED SIGNS TOTAL							

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR (8 SAND BARRELS)
6122009		IMPACT ATTENUATOR (9 SAND BARRELS)
6122010		IMPACT ATTENUATOR (10 SAND BARRELS)
6122012		IMPACT ATTENUATOR (12 SAND BARRELS)
6122014		IMPACT ATTENUATOR (14 SAND BARRELS)
6122017		IMPACT ATTENUATOR (17 SAND BARRELS)
6122019		IMPACT ATTENUATOR (19 SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR ARRAY (RELOCATION)
6123000A		TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)
6161007		SPEED LIMIT AND STROBE LIGHT ASSEMBLY
6161008		ADVANCED WARNING RAIL SYSTEM
6161009	**24**	**FLAG ASSEMBLY**
6161020		CHANNELIZER (DRUM-LIKE)
6161022		CHANNELIZER (CONES)
6161024		CHANNELIZER (TRIM LINE) WITH LIGHT
6161025	**20**	**CHANNELIZER (TRIM LINE)**
6161026		CHANNELIZER (VERTICAL PANEL)
6161027		CHANNELIZER (VERTICAL PANEL) WITH LIGHT
6161028		CHANNELIZER
6161030		TYPE III MOVEABLE BARRICADE
6161031		TYPE III MOVEABLE BARRICADE WITH LIGHT
6161033		DIRECTION INDICATOR BARRICADE
6161034		DIRECTION INDICATOR BARRICADE, WITH LIGHT
6161040		FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161051		WARNING LIGHT, TYPE A
6161052		WARNING LIGHT, TYPE B
6161053		WARNING LIGHT, TYPE C
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098	**2**	**CHANGEABLE MESSAGE SIGN, CONTRACTOR FURNISHED/RETAINED**
6161100		CHANGEABLE MESSAGE SIGN, CONTRACTOR FURNISHED/COMMISSION RETAINED
6173600D		CONTRACTOR FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER
6173602B		CONTRACTOR FURNISHED/COMMISSION RETAINED TEMPORARY TRAFFIC BARRIER
6174000A		TEMPORARY TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		COMMISSION FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER
6177000B		COMMISSION FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER HEIGHT TRANSITION
9019400		TEMPORARY LIGHTING
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/10/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	3

COUNTY: NEWTON

JOB NO.: J7P2203

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION

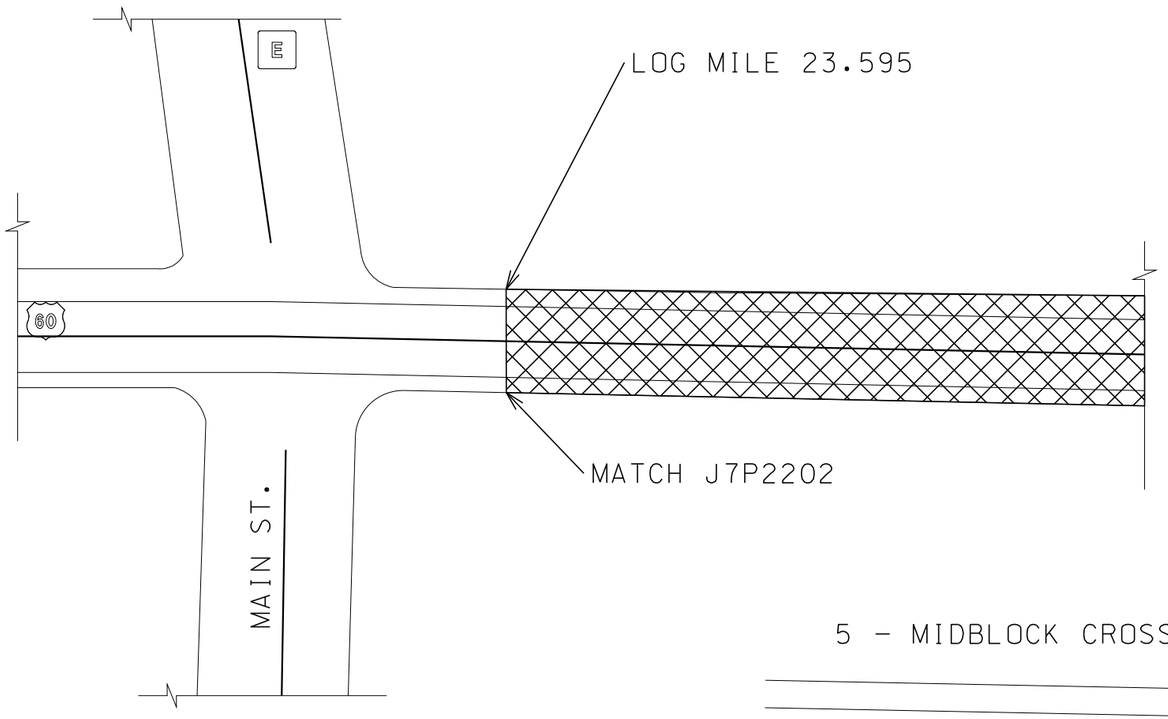
DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

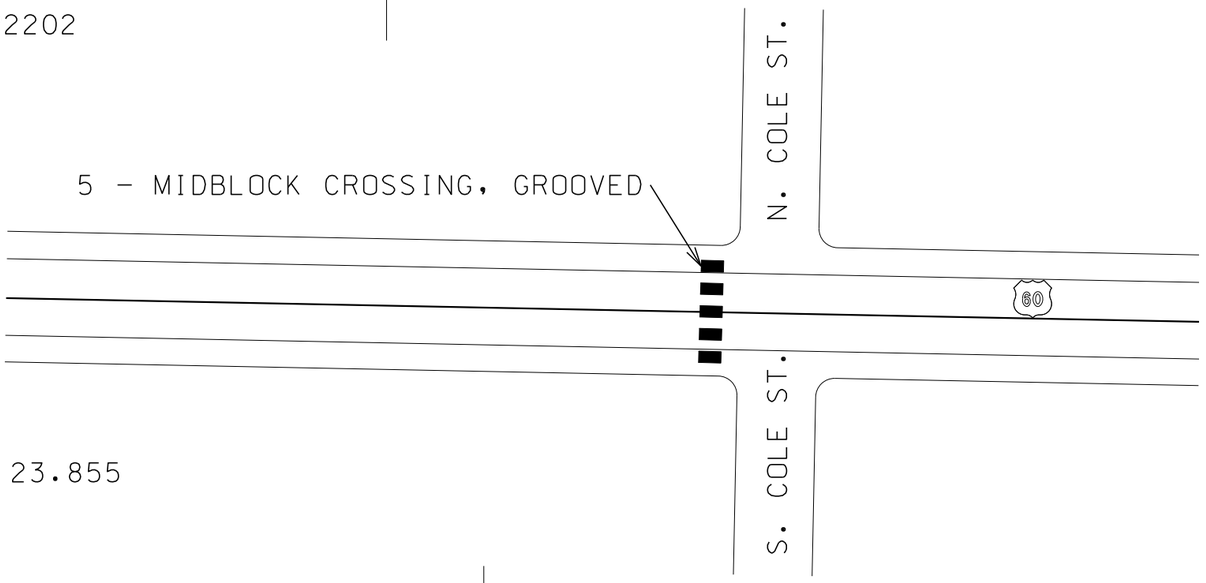
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

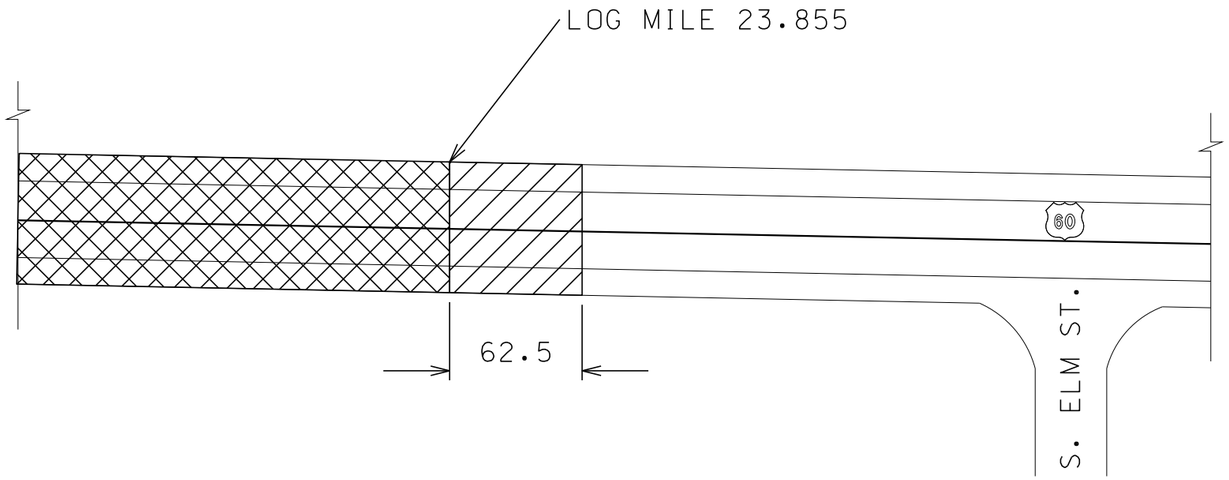
SUMMARY SHEET
SHEET 3 OF 3



CROSSHATCH INDICATES
1.75" MILL AND FILL

HATCH INDICATES
MODIFIED COLDMILL





SPECIAL SHEET
SHEET 1 OF 2

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/10/2014

ROUTE	STATE
60	MO

DISTRICT	SHEET NO.
SW	4

COUNTY
NEWTON

JOB NO.
J7P2203

CONTRACT ID.

PROJECT NO.

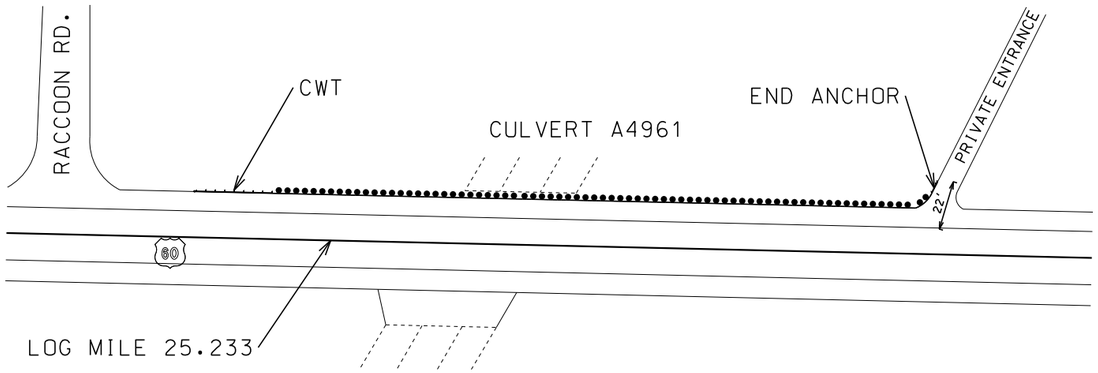
BRIDGE NO.

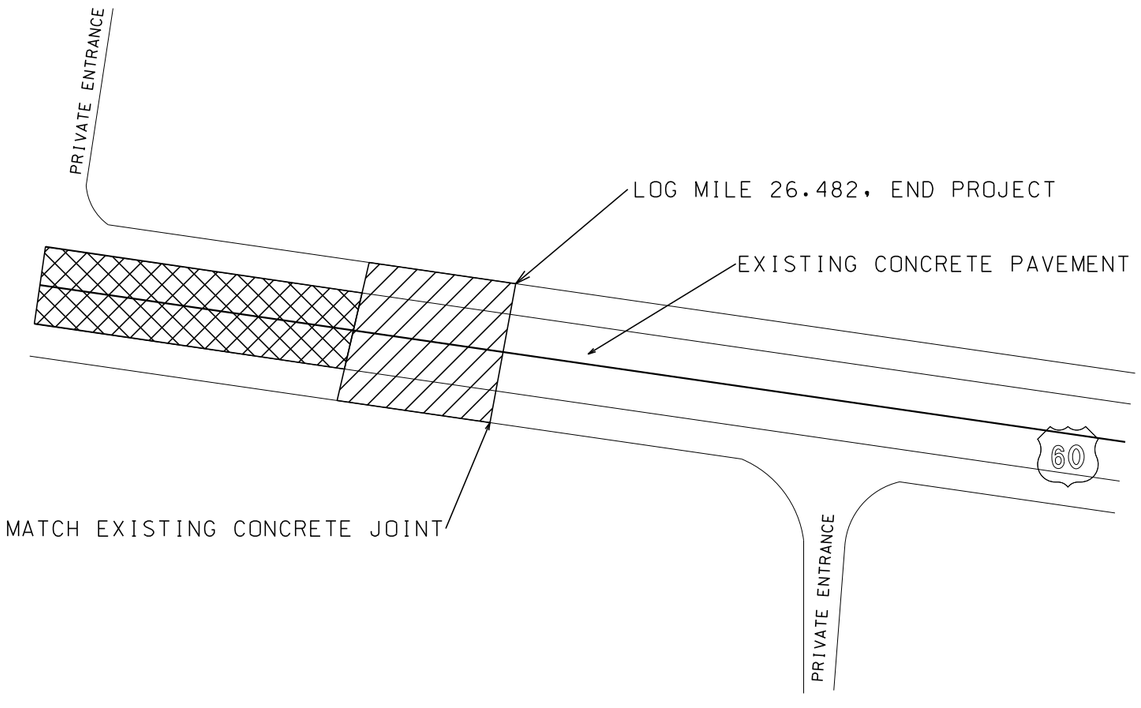
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

GUARDRAIL DETAIL





HATCH INDICATES MODIFIED COLDMILL

CROSS HATCH INDICATES 0.5" COLDMILL

SPECIAL SHEET
SHEET 2 OF 2

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/10/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	5

COUNTY
NEWTON

JOB NO.
J7P2203

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

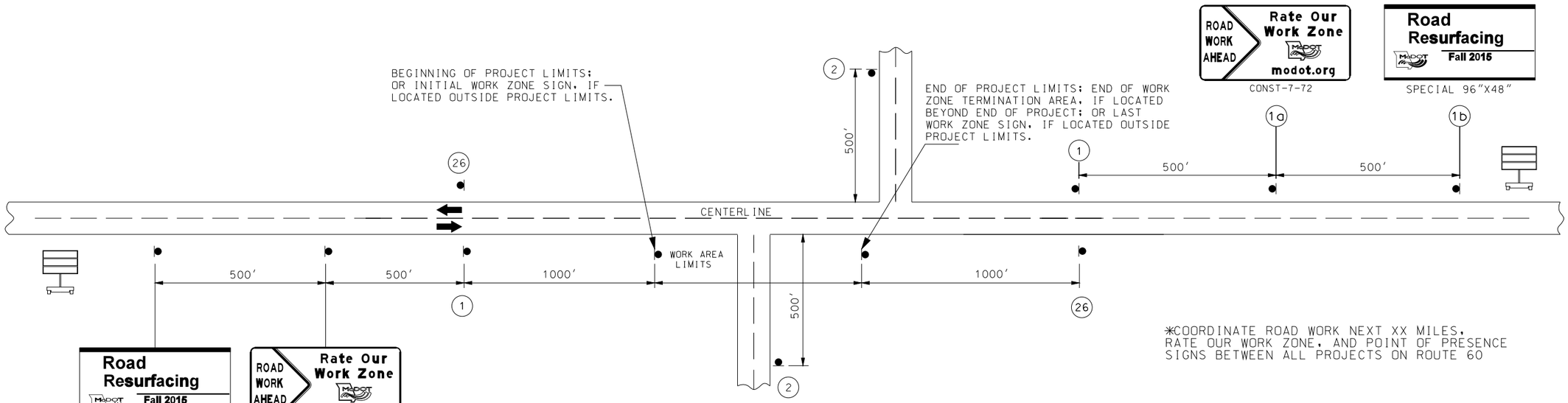
DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

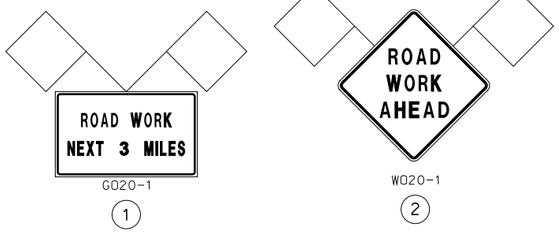
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

NOTES:

1. ANY EXIST. SIGNS THAT CONFLICT WITH TRAFFIC CONTROL PLAN SHALL BE COVERED.
2. TEMP. SIGNING SHOWN IS FOR WORK ON ONE SIDE OF THE ROAD. FOR WORK ON THE OTHER SIDE, REVERSE ORDER OF THE SIGNS AND CHANNELIZERS.
3. SIGNING SHOWN SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
4. ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER.
5. SEE STANDARD DRAWING 616.10, 619.10, AND 620.10 FOR ADDITIONAL DETAILS AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS.
6. SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT 1/2 MILE.
7. TEMPORARY SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED WHEN THE CONDITIONS REQUIRING REDUCED SPEEDS DO NOT EXIST.
8. NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, OR CONSTRUCTION SIGNS.
9. ALL SIGNS WITHIN THE FIRST ADVANCE WARNING AREA SHALL BE ENHANCED WITH FLAGS.
10. POINT OF PRESENCE (SPECIAL 96"X48") SIGN IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS. IF A VISIBLE LOCATION WITHIN THE PROJECT IS NOT AVAILABLE, THE SIGN MAY BE PLACED 500 FEET BEFORE CONST-7-72.



*COORDINATE ROAD WORK NEXT XX MILES, RATE OUR WORK ZONE, AND POINT OF PRESENCE SIGNS BETWEEN ALL PROJECTS ON ROUTE 60





USE "BUMP" SIGN IN COLD MILL AREAS AS APPROVED BY ENGINEER

* SEE STD. DRAWING 619.10 FOR DETAILS

NOTES:

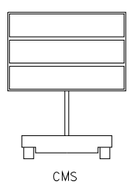
SIGN (1) IS ONLY USED ON PROJECT LENGTHS 2 MILES OR GREATER.

SIGN (26) MAY BE USED ON PROJECTS LESS THAN 2 MILES.

PROVIDE SIGNS IN EACH DIRECTION ON TWO-WAY HIGHWAY.

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

FLAGS WILL NOT BE REQUIRED ON SIGN (2) LOCATED ON SIDE ROADS.



CMS

TRAFFIC CONTROL
SHEET 1 OF 3

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/10/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	6

COUNTY NEWTON

JOB NO. J7P2203

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

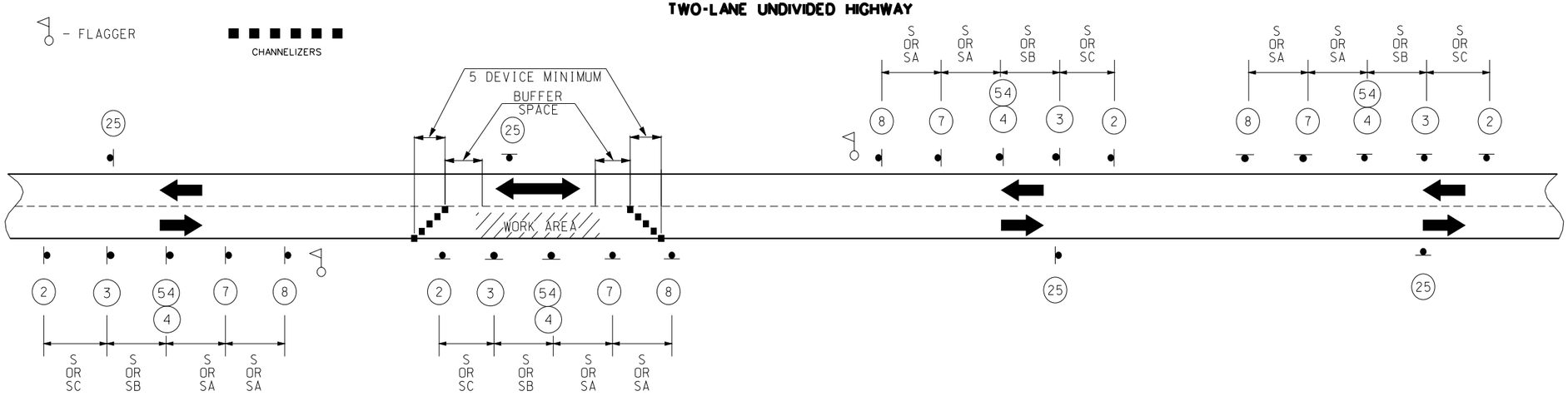
DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWO-WAY SINGLE LANE RESURFACING OPERATION
TWO-LANE UNDIVIDED HIGHWAY



SIGN SETS 1 AND 3 ARE ACTIVE AND (I.E., SIGNS FACE ONCOMING TRAFFIC).

SIGN SETS 2 AND 4 ARE INACTIVE (I.E., SIGNS DO NOT FACE EITHER DIRECTION OF TRAFFIC) WHEN THE RESURFACING OPERATION IS LOCATED BETWEEN SIGN SETS 1 AND 3.

WHEN SIGN SETS 2 AND 4 ARE ACTIVE, SIGN SETS 1 AND 3 BECOME INACTIVE AND ARE ADVANCED TO BECOME SETS 2 AND 4 WITH SIGN LEGENDS TURNED AWAY FROM BOTH DIRECTIONS OF TRAFFIC. WHEN THE RESURFACING OPERATION ADVANCES TO BETWEEN SIGN SETS 2 AND 4, SIGN SETS 2 AND 4 BECOME ACTIVE (I.E., NEW SIGN SETS 1 AND 3) AND SIGN SETS 1 AND 3 ADVANCED IN THE DIRECTION OF THE OPERATION (I.E., NEW SIGN SETS 2 AND 4).

SIGNS 3 AND 4 ARE OPTIONAL FOR THIS SET UP AND WILL BE PLACED ACCORDINGLY. SIGN 3 WILL ONLY BE USED WHERE SIGN 4 IS GREATER THAN 10 MPH BELOW THE POSTED SPEED OF SIGN 25

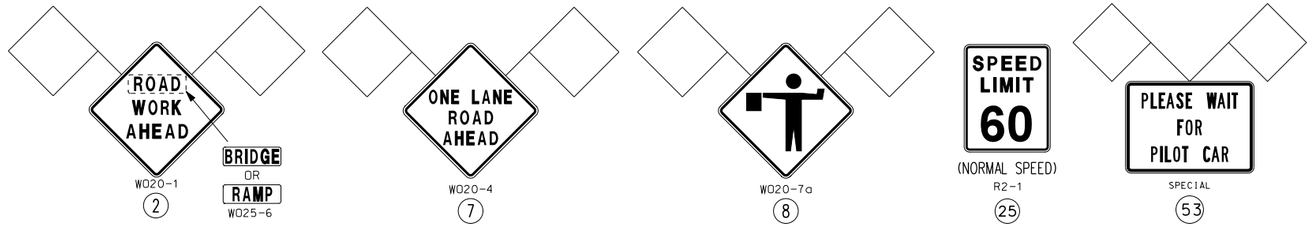
SIGNS ARE PROVIDED FOR AN ESTIMATED 4 MILES OF WORK (ESTIMATED 1 DAYS AMOUNT OF WORK). ALL OTHER SIGNS ARE INCIDENTAL TO THE PROJECT AND NO COST TO MODOT.

USE BEGIN/END PROJECT SIGNING SHEET DAYLIGHT FLAGGING OPERATIONS ONLY.

NO DIRECT PAYMENT WILL BE MADE FOR CONES, OR FOR THE RELOCATION OF CHANNELIZERS AS SHOWN ON THE PLANS. CONES ALLOWABLE FOR DAYLIGHT OPERATIONS ONLY.

CHANNELIZING DEVICES LOCATED DOWNSTREAM OF THE ONE-LANE, TWO-WAY TAPER ARE OPTIONAL. THESE DEVICES SHOULD BE ELIMINATED WHEN THEIR USE WILL REDUCE THE USABLE LANE WIDTH, INCLUDING ANY ACCEPTABLE SHOULDERS, TO LESS THAN 10'OR WILL SIGNIFICANTLY AFFECT THE RESURFACING OPERATION.

FLAG ASSEMBLIES FOR SIGNS WILL BE PAID FOR AS EACH PER SIGN. EXCEPT FOR SIGN W020-7 WHICH IS SUBSIDIARY TO THE SIGN.



(1) SIGN 53 "PILOT CAR FOLLOW ME" SHALL BE IN CONTRACTOR'S RESPONSIBILITY WHEN IN USE DURING CONSTRUCTION.

(2) SIGN 58 SHALL BE PLACED AT ALL SIDE ROADS. 150' FROM INTERSECTION

SIGN SPACING FOR ADVANCE SIGN SERIES (2) (3)		
SPEED (1) MPH	NON-DIVIDED HIGHWAYS	DIVIDED HIGHWAYS
0 - 35	200	200
40 - 45	350	500
50 - 55	500	1000
60 - 70	SA - 1000 FT. SB - 1500 FT. AND SC - 2640 FT.	

NOTES:

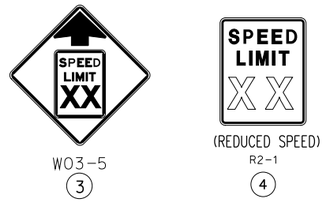
DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.

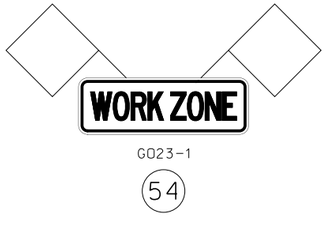
(1) POSTED SPEED LIMIT PRIOR TO ROAD WORK.

(2) SPACING BETWEEN SIGNS, BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER OR SIGNED CONDITION.

(3) SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

SPEED MPH	SHOULDER TAPER LENGTH (ft)	OPTIONAL BUFFER LENGTH (ft)
0-35	70 FT	250 FT
40-45	150 FT	360 FT
50-55	185 FT	495 FT
60-70	235 FT	730 FT





TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES					
SPEED MPH (S)	MINIMUM TAPER LENGTHS (L) FOR LATERAL SHIFTS (W)			MAXIMUM CHANNELIZER SPACING	
	10 FT	11 FT	12 FT	THROUGH TAPER	THROUGH WORK AREA
0-35	205FT	225FT	245FT	35FT	50FT
40-45	450FT	495FT	540FT	40FT	100FT
50-55	550FT	605FT	660FT	50FT	100FT
60-70	700FT	770FT	840FT	60FT	100FT

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
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DATE PREPARED 7/10/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	7

COUNTY NEWTON

JOB NO. J7P2203

CONTRACT ID.

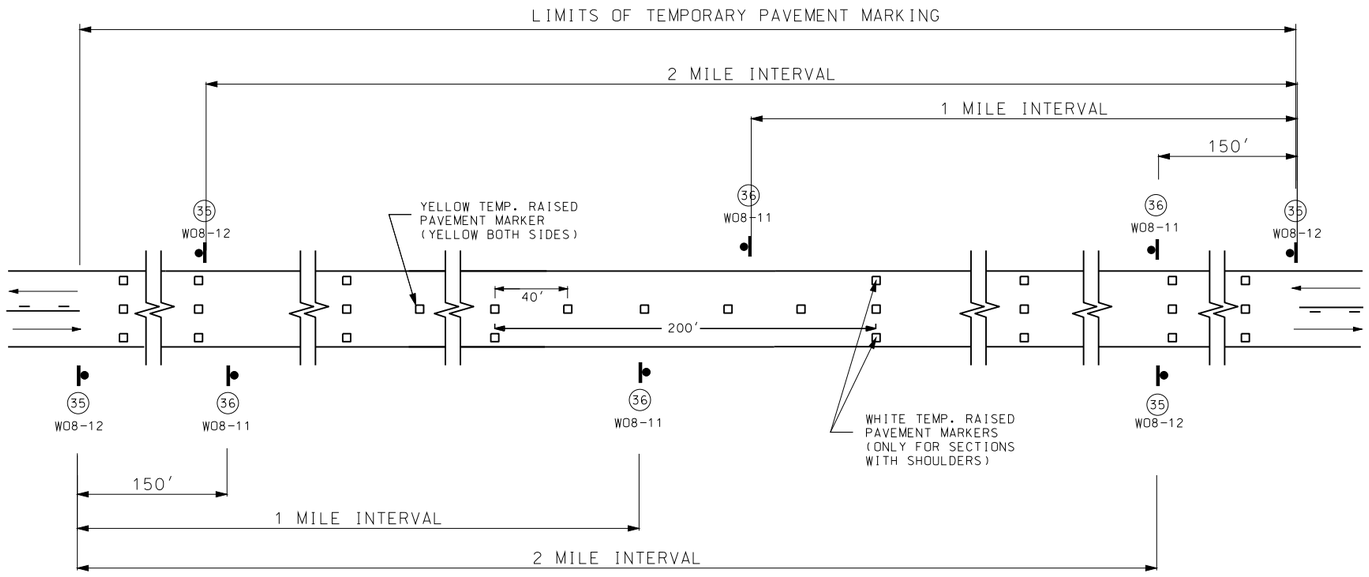
PROJECT NO.

BRIDGE NO.

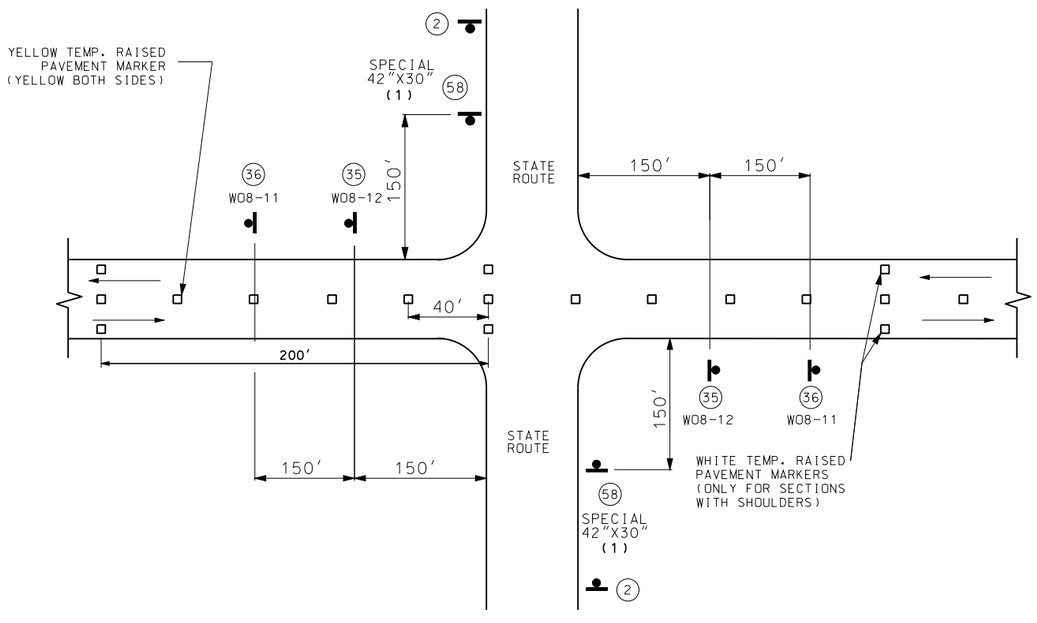
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



SIGN SPACING FOR MAINLINE



SIGN SPACING AT STATE ROUTE INTERSECTIONS



WO20-1
(2)



WO8-12
(35)



WO8-11
(36)



SPECIAL
42″X30″
(58) (1)

(1) ADDITIONAL SIDEROADS MAY BE SIGNED AS APPROVED BY THE ENGINEER.

NOTES:

SIGN (35) AND TEMPORARY PAVEMENT MARKING INSTALLED WHERE CENTERLINE STRIPING HAS BEEN COVERED OR REMOVED. SIGNS ARE TO REMAIN IN PLACE UNTIL THE PERMANENT CENTERLINE PAVEMENT MARKINGS ARE IN PLACE. SIGNS SHALL BE COVERED OR REMOVED WHEN PAVEMENT CENTERLINE MARKING HAS BEEN INSTALLED.

SIGN (35) IS PLACED AT APPROXIMATELY TWO-MILE INTERVALS AND AT STATE ROUTE JUNCTIONS. WHEN THE INSTALLATION AT A JUNCTION IS WITHIN ONE-EIGHTH MILE OF THE NORMAL MAINLINE SIGN (35), THE LATTER MAY BE ELIMINATED.

ALL SIGNS THAT ARE POST MOUNTED SHALL BE IN ACCORDANCE WITH STANDARD PLAN 616.10 AND 903.03.

TEMPORARY RAISED PAVEMENT MARKERS SHALL BE INSTALLED BY THE END OF EACH DAY.

TRAFFIC CONTROL
SHEET 3 OF 3

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
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DATE PREPARED 7/10/2014

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	8

COUNTY NEWTON
JOB NO. J7P2203
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

DESIGN DESIGNATION

A.A.D.T. - 2013 = 5395
A.A.D.T. - 2023 = 5720
T = 6%
V = 60 M.P.H.

FUNCTIONAL CLASSIFICATION-MAJOR COLLECTOR

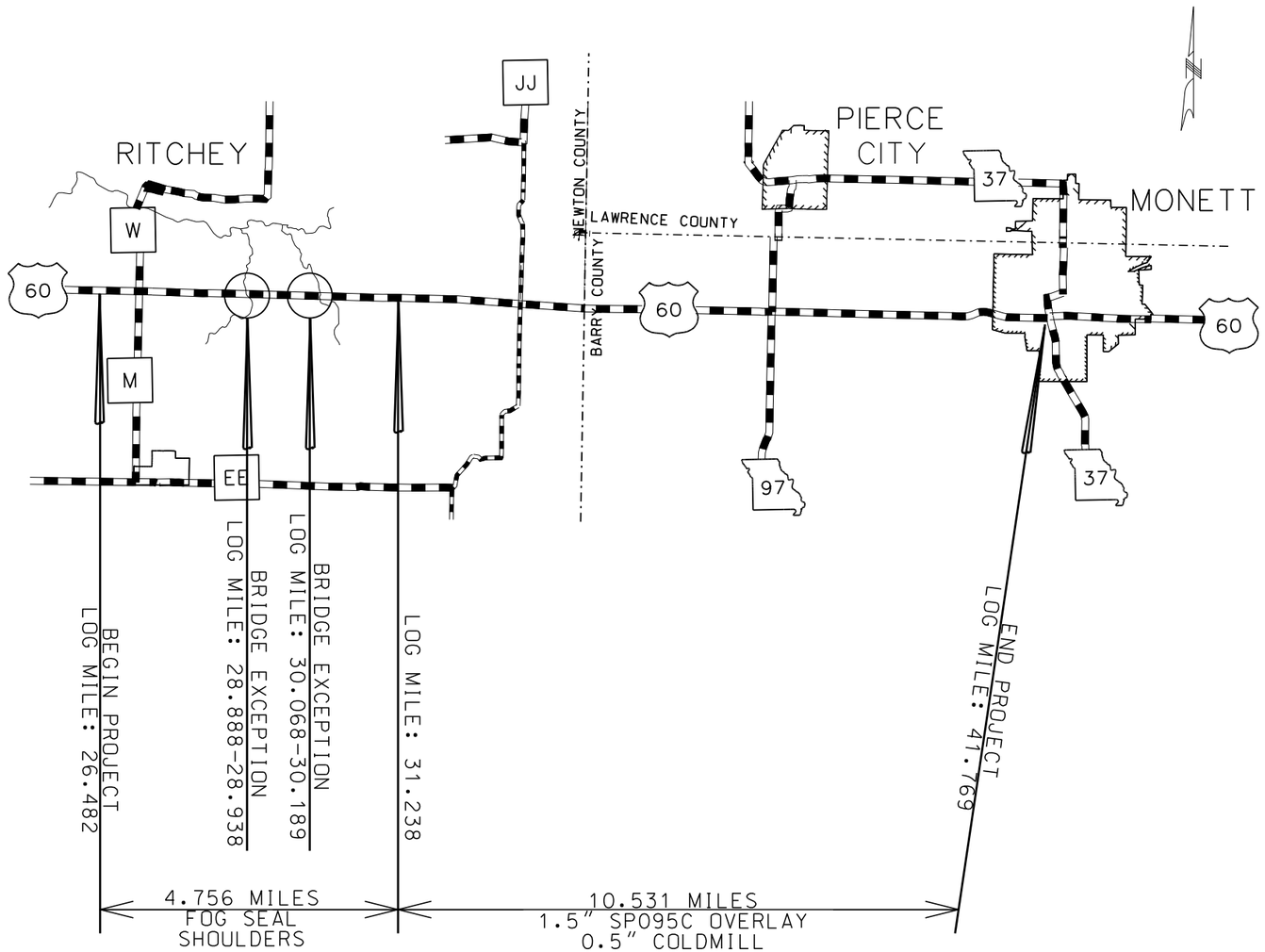
NO NEW R/W REQUIRED

CONVENTIONAL SYMBOLS
(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	FO
OVERHEAD TELEPHONE		
UNDERGROUND TELEPHONE	-T-	T
OVERHEAD POWER		
UNDERGROUND POWER	-P-	P
GAS	-G-	G
WATER	-W-	W
MANHOLE	SAN	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
DROP INLET	DI	
DITCH BLOCK		
GROUND MOUNTED SIGN	SIGN	
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL	PED	
FENCE		
CHAIN LINK	V	
WOVEN WIRE	X	
GATE POST		
BENCHMARK	BM	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY
NEWTON/BARRY COUNTY



CONTINUOUS LOG MILES FROM 2013 TMS OF US60 EASTBOUND

NOT TO SCALE

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (4 SHEETS)	2
QUANTITIES (QU) (4 SHEETS)	3
SPECIAL SHEETS (SS)	4-10
TRAFFIC CONTROL SHEETS (TC)	11-15
PAVEMENT MARKING (PM)	16-17

LENGTH OF PROJECT

BEGINNING OF PROJECT	LOG MILE: 26.482
END OF PROJECT	LOG MILE: 41.769
APPARENT LENGTH	15.287 MILES
EQUATIONS AND EXCEPTIONS:	
BRIDGE #A4893 28.888 - 28.938	0.050 MILES
BRIDGE #A4894 30.068 - 30.189	0.121 MILES
TOTAL CORRECTIONS	-0.171 MILES
NET LENGTH OF PROJECT	15.116 MILES
STATE LENGTH	15.116 MILES

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

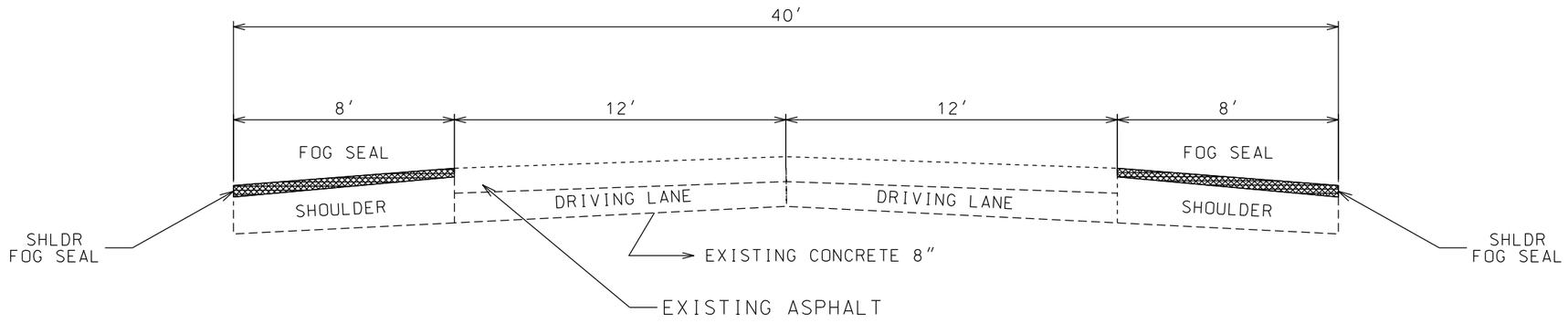
DATE PREPARED: 7/14/2014
ROUTE: 60 | STATE: MO
DISTRICT: SW | SHEET NO.: 1
COUNTY: NEWTON/BARRY
JOB NO.: J7P2204
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE | REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

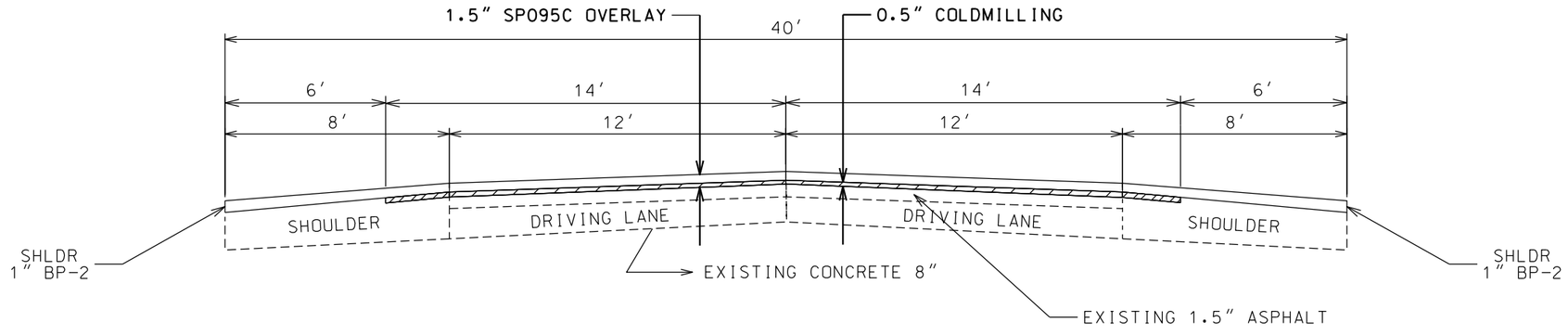
EAST & WEST BOUND LANES



*NOTE: BRIDE EXCEPTIONS
A4893 LOG MILE 28.888-28.938
A4894 LOG MILE 30.068-30.189

TYPICAL SECTION
FROM LOG MILE 26.482- 31.238

SP095C ESTIMATED AT 1.945 TONS PER CUBIC YARD 5.6%
BP-2 ESTIMATED AT 1.978 TONS PER CUBIC YARD 5.3%
TACK ESTIMATED AT 0.08 GALLONS PER SQUARE YARD



MODIFIED COLDMILLING TRANSITIONS

LOG 31.238-31.247 FROM 1.5″ to 0.5″

LOG 37.179-37.188 FROM 0.5″ to 1.5″

LOG 37.387-37.396 FROM 1.5″ to 0.5″

LOG 40.214-40.219 FROM 0.5″ to 0″

TYPICAL SECTION
FROM LOG MILE 31.238 - 37.188
FROM LOG MILE 37.387 - 40.219

DRAWING NOT TO SCALE

TYPICAL SECTION
ROUTE US 60

SHEET 1 OF 4

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

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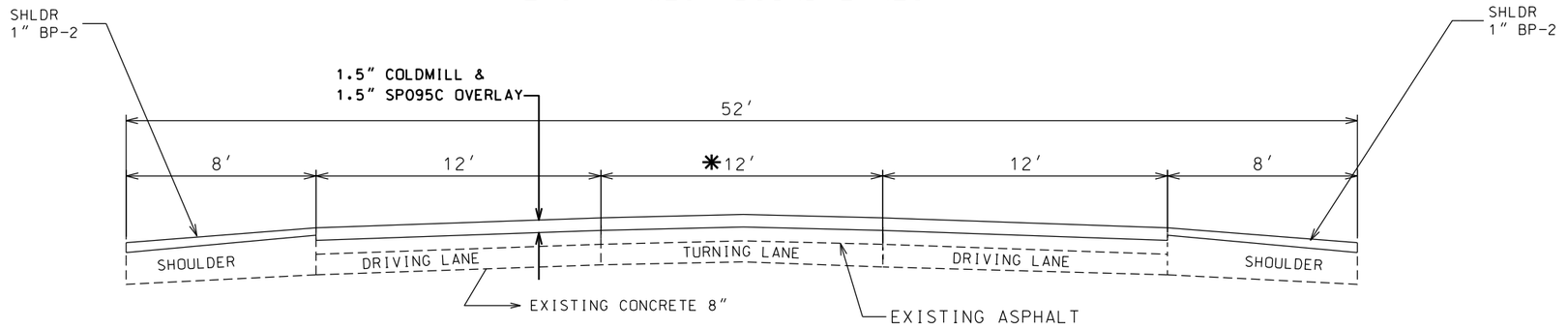
DATE PREPARED	7/14/2014
ROUTE	STATE
US60	MO
DISTRICT	SHEET NO.
SW	2
COUNTY	NEWTON/BARRY
JOB NO.	J7P2204
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EAST & WEST BOUND LANES

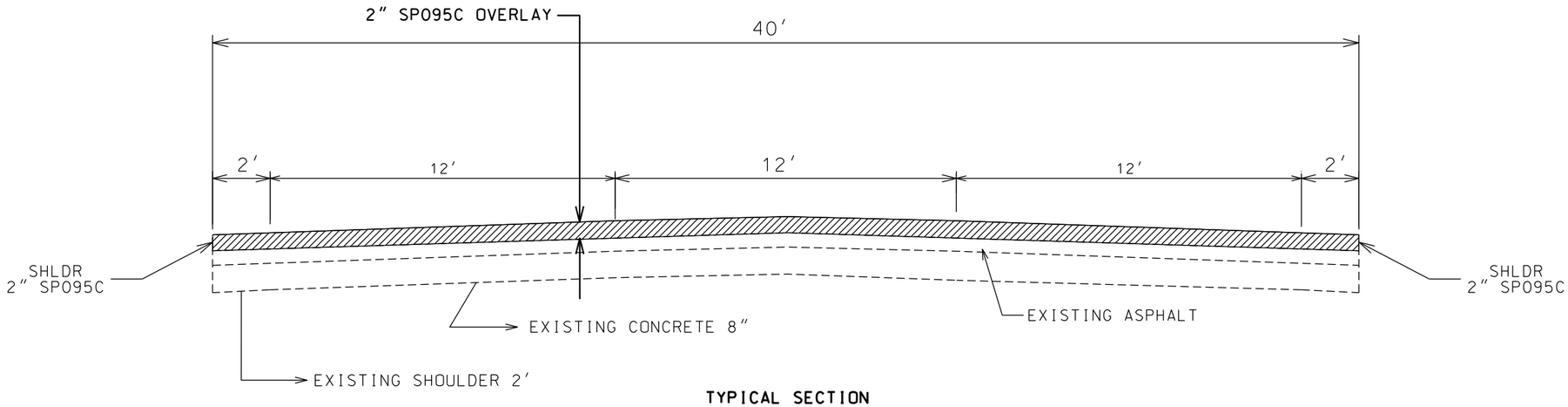


* NOTE: center lane transitions from 0ft at log 37.188 to 12 ft at log 37.226
center lane transitions from 12ft at log 37.332 to 0ft AT log 37.387

TYPICAL SECTION

FROM LOG MILE 37.188 - 37.387 ROUTE 97
FROM LOG MILE 41.270 - 41.350 EISENHOWER ST
FROM LOG MILE 41.667 - 41.769 ROUTE 37

SP095C ESTIMATED AT 1.945 TONS PER CUBIC YARD 5.6%
BP-2 ESTIMATED AT 1.978 TONS PER CUBIC YARD 5.3%
TACK ESTIMATED AT 0.08 GALLONS PER SQUARE YARD



TYPICAL SECTION

FROM LOG MILE 40.219 - 40.780

DRAWING NOT TO SCALE

TYPICAL SECTION
ROUTE US 60

SHEET 2 OF 4

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

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DATE PREPARED: 7/14/2014

ROUTE	STATE
US60	MO
DISTRICT	SHEET NO.
SW	2

COUNTY: NEWTON/BARRY
JOB NO.: J7P2204
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

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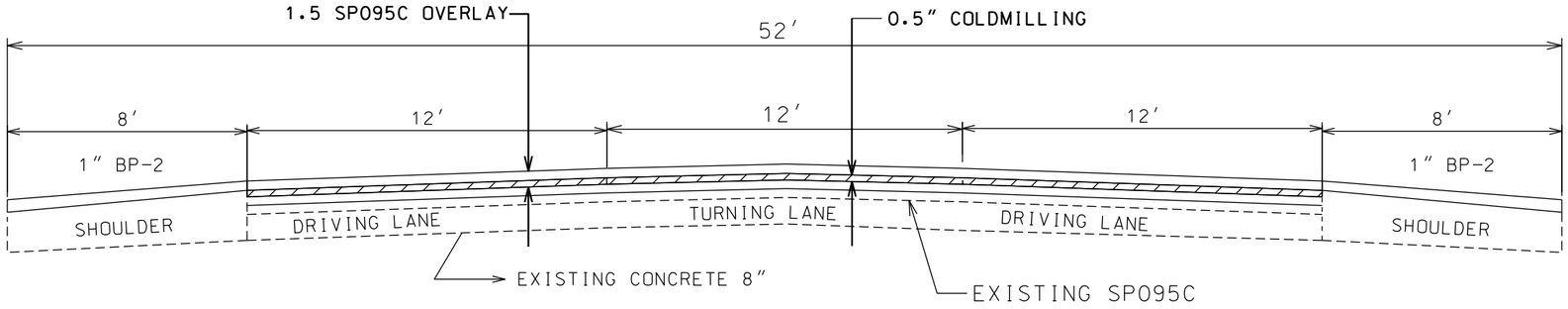
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EAST & WEST BOUND LANES



TYPICAL SECTION

FROM LOG MILE 40.780 - 41.270 ROUTE 97
FROM LOG MILE 41.350 - 41.667 EISENHOWER ST

SP095C ESTIMATED AT 1.945 TONS PER CUBIC YARD 5.6%
BP-2 ESTIMATED AT 1.978 TONS PER CUBIC YARD 5.3%
TACK ESTIMATED AT 0.08 GALLONS PER SQUARE YARD

MODIFIED COLDMILLING TRANSITIONS

LOG 40.780-40.785 FROM 0" to 0.5"

LOG 41.260-41.270 FROM 0.5" to 1.5"

LOG 41.350-41.360 FROM 1.5" to 0.5"

LOG 41.657-41.667 FROM 0.5" to 1.5"

DRAWING NOT TO SCALE

TYPICAL SECTION
ROUTE US 60

SHEET 3 OF 4

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

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DATE PREPARED
7/14/2014

ROUTE	STATE
US60	MO
DISTRICT	SHEET NO.
SW	2

COUNTY
NEWTON/BARRY

JOB NO.
J7P2204

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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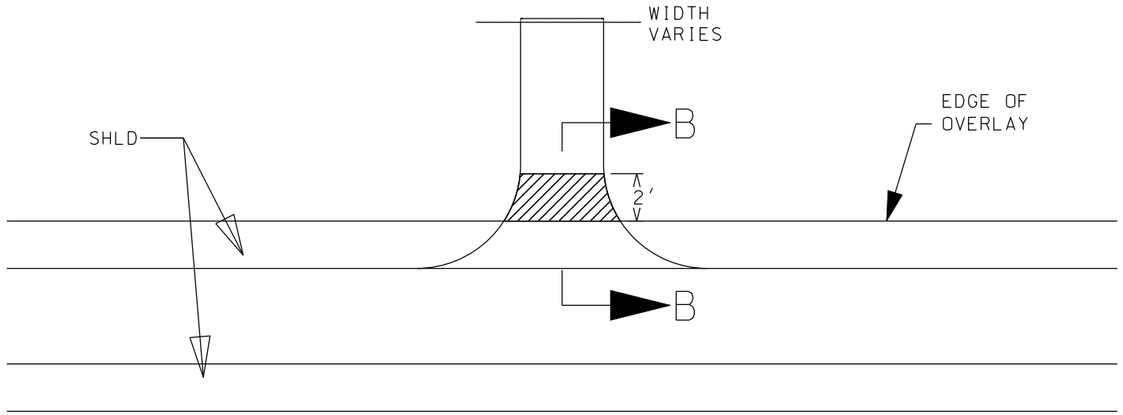
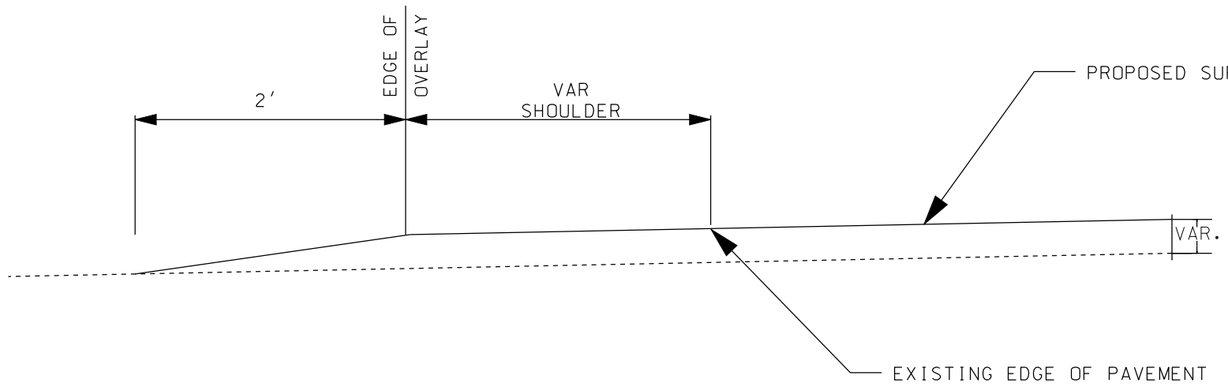
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PRIVATE ENTRANCES





SECTION B-B

TYPICAL ENTRANCE
FIELD, PRIVATE, COMMERCIAL, CITY OR COUNTY ROAD

DRAWING NOT TO SCALE

TYPICAL SECTION
ROUTE US 60

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

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DATE PREPARED: 7/14/2014

ROUTE	STATE
US60	MO
DISTRICT	SHEET NO.
SW	2

COUNTY: NEWTON/BARRY

JOB NO.: J7P2204

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

FOG SEAL						
LOG MILE	LOG MILE	NET LENGTH MI	AVERAGE WIDTH LF	APPROACH AREA SY	FOG SEAL 0.15 GAL/SY GAL	REMARKS
26.482	28.888	2.406	16	22584.3	3387.6	
28.888	28.938	0.050	16			Bridge Exception (A4893)
28.938	30.068	1.130	16	10606.9	1591.0	
30.068	30.189	0.121	16			Bridge Exception (A4894)
30.189	31.238	1.049	16	9846.6	1477.0	
				TOTAL	6455.7	
				USE	6460.0	

REMOVAL OF IMPROVEMENTS						
SHEET	LOG MILE	LOCATION	DESCRIPTION	UNIT	TOTAL	REMARKS
5	28.888	LT & RT	EXIST CWT'S	EA	2	Br. No. A4893
5	28.938	LT & RT	EXIST CWT'S	EA	2	Br. No. A4893
5	30.068	LT & RT	EXIST CWT'S	EA	2	Br. No. A4894
5	30.189	LT & RT	EXIST CWT'S	EA	2	Br. No. A4894
				TOTAL	ONE LUMP SUM	

SP095C PAVEMENT QUANTITIES							
LOG MILE	LOG MILE	NET LENGTH MI	AVERAGE WIDTH LF	APPROACH AREA SF	SP095C 1.945 Tons/CY TONS	TACK 0.08 GAL/SY GAL	REMARKS
31.238	37.188	5.950	28	879648.0	7920.9	7819	Begin Project to MO 97
37.188	37.387	0.199	VAR	67612.0	608.8	601	MO 97 Intersection
37.387	40.219	2.832	28	418682.9	3770.1	3722	MO 97 to FR 1060
40.219	40.780	0.561	40	118483.2	1422.5	1053	2" Overlay @ FR 1060
40.780	41.240	0.460	36	87436.8	787.3	777	FR 1060 to Width Transition
41.240	41.250	0.010	36-48	2217.6	20.0	20	Width Transition
41.250	41.270	0.020	48	5068.8	45.6	45	Eisenhower Approach
41.270	41.350	0.080	VAR	26788.0	241.2	238	Eisenhower Intersection
41.350	41.667	0.317	36	60255.4	542.6	536	Eisenhower to MO 37
41.667	41.735	0.068	VAR	34172.0	307.7	304	MO 37 Intersection
41.735	41.769	0.034	60	10771.2	97.0	96	MO 37 Intersection To End Project
31.238	41.769	0.364	2	3843.8	23.1	34	Entrances
31.238	41.769	10.531			789.8	780	75 Tons/Mile for Irregularities
				SUBTOTAL 1	16576.7	16020	

BP-2 PAVEMENT QUANTITIES								
LOG MILE	LOG MILE	NET LENGTH MI	AVERAGE WIDTH LF	APPROACH AREA SF	THICKNESS IN	BP-2 1.978 Tons/CY TONS	TACK 0.08 GAL/SY GAL	REMARKS
31.238	31.247	0.009	12	600.0	1.5	5.5	7	Begin Project Transition
31.247	37.179	5.932	12	375851.5	1.0	2294.6	4176	Begin Project to MO 97
37.179	37.249	0.070	12	4435.2	1.5	40.6	49	MO 97
37.311	37.396	0.085	12	5385.6	1.5	49.3	48	MO 97
37.396	40.214	2.818	12	178548.5	1.0	1090.0	1587	MO 97 to FR 1060
40.214	40.219	0.005	12	300.0	1.5	2.7	3	FR 1060 Transition
40.780	40.785	0.005	16	400.0	1.5	3.7	4	FR 1060 Transition
40.785	41.260	0.475	16	40128.0	1.0	245.0	357	FR 1060 to Eisenhower
41.260	41.270	0.010	16	800.0	1.5	7.3	7	Eisenhower Transition
41.270	41.284	0.014	8	600.0	1.5	5.5	5	Eisenhower
41.317	41.336	0.019	8	802.6	1.5	7.3	7	Eisenhower
41.336	41.360	0.024	16	2027.5	1.5	18.6	18	Eisenhower
41.360	41.657	0.297	16	25090.6	1.0	153.2	223	Eisenhower to MO 37
41.657	41.676	0.019	16	1605.1	1.5	14.7	14	MO 37
41.705	41.738	0.033	8	2520.0	1.5	23.1	22	MO 37
41.738	41.769	0.031	16	2618.9	1.5	24.0	23	MO 37 to End Project
31.238	41.769	5.807	2	61321.9	0.5	187.2	545	Entrances
31.238	41.769	10.531				210.6	202	20 Tons/Mile for Irregularities
					SUBTOTAL 2	4382.9	7300	

PAVEMENT QUANTITIES			
	SP095C TONS	BP-2 TONS	TACK GAL
SUBTOTAL 1	16576.7	0.0	16020
SUBTOTAL 2	0.0	4382.9	7300
TOTAL	16576.7	4382.9	23320

CONTRACTOR FURNISHED SURVEYING AND STAKING
TOTAL 1 LUMP SUM

WORK ZONE LIGHTING
1 LUMP SUM

MOBILIZATION
1 LUMP SUM

SUMMARY SHEET
SHEET 1 OF 4

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/14/2014
ROUTE: US 60 | STATE: MO
DISTRICT: SW | SHEET NO.: 3
COUNTY: NEWTON/BARRY
JOB NO.: J7P2204
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

BITUMINOUS RUMBLE STRIPS (SHOULDER)				
LOG MILE	LOG MILE	LOCATION	LENGTH (STA)	REMARKS
HIGHWAY U.S. 60				
26.482	41.769	LT & RT	807.2	SEE TYPICAL FOR DETAILS
26.482	41.769	LT	201.6	(-) EXCEPTIONS FOR STATE ROUTES, BRIDGE, SIDE ROADS, AND ENTRANCES
26.482	41.769	RT	181.8	(-) EXCEPTIONS FOR STATE ROUTES, BRIDGE, SIDE ROADS, AND ENTRANCES
40.209	40.79	RT & LT	30.7	(-) EXCEPTIONS FOR STATE ROUTES, BRIDGE, SIDE ROADS, AND ENTRANCES
		TOTAL	393.0	

BITUMINOUS RUMBLE STRIPS (CENTERLINE)				
BEGIN LOG MILE	END LOG MILE	LOCATION	LENGTH (STA)	REMARKS
HIGHWAY U.S 60				
26.482	41.769	CENTER THROUGHOUT	807.2	SEE TYPICAL FOR DETAILS
		CENTER @ HW 97	11.5	(-) EXCEPTIONS FOR STATE ROUTES, BRIDGE, SIDE ROADS, AND ENTRANCES
40.209	40.79	FR 1060	30.7	(-) EXCEPTIONS FOR STATE ROUTES, BRIDGE, SIDE ROADS, AND ENTRANCES
		TOTAL	765.0	

MODIFIED COLDMILL					
LOG MILE	LOG MILE	NET LENGTH LF	AVERAGE WIDTH LF	MODIFIED COLDMILLING SY	REMARKS
31.238	31.247	50.0	40.0	222.2	Beginning Coldmill Transition
37.179	37.188	50.0	40.0	222.2	West of 97 Intersection
37.387	37.396	50.0	40.0	222.2	East of 97 Intersection
40.214	40.219	25.0	40.0	111.1	Transition from 1.5" to 2" Overlay
40.780	40.785	25.0	52.0	144.4	Transition from 2" to 1.5" Overlay
41.260	41.270	50.0	64.0	355.6	West of Eisenhower Intersection
41.350	41.360	50.0	52.0	288.9	East of Eisenhower Intersection
41.657	41.667	50.0	52.0	288.9	West of 37 Intersection
			TOTAL	1855.6	
			USE	1856.0	

COLDMILLING BITUMINOUS PAVEMENT						
LOG MILE	LOG MILE	NET LENGTH MI	DEPTH IN	AVERAGE WIDTH LF	APPROACH AREA SY	REMARKS
31.247	37.179	5.932	0.5	28.0	97443.0	Begin Project to HWY 97
37.188	37.387	0.199	1.5	VAR	7512.4	US 60 & HWY 97 Intersection
37.396	40.214	2.818	0.5	28.0	46290.3	HWY 97 to FR 1060
40.785	41.240	0.455	0.5	36.0	9609.6	FR 1060 to Eisenhower
41.240	41.260	0.020	0.5	36-48	492.8	Eisenhower Approach
41.270	41.350	0.080	1.5	VAR	2976.4	US 60 & Eisenhower St Intersection
41.360	41.657	0.297	0.5	36.0	6272.6	Between Eisenhower & HWY 37
41.667	41.735	0.068	1.5	VAR	3796.9	US 60& MO 37 Intersection
41.735	41.769	0.034	1.5	60.0	1196.8	MO 37 to End Project
				TOTAL	175591.0	

GUARDRAIL				
SHEET	ROUTE	LOG MILE	TYPE A CRASH WORTHY TERMINAL	REMARKS
5	60	28.888	2	Br. No. A4893
5	60	28.938	2	Br. No. A4893
5	60	30.068	2	Br. No. A4894
5	66	30.189	2	Br. No. A4894
		TOTAL	8	

SUMMARY SHEET
SHEET 2 OF 4

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
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DATE PREPARED 7/14/2014
ROUTE US60 | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY NEWTON/BARRY
JOB NO. J7P2204
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

PAVEMENT MARKING							
	TYPE 2 PREFORMED MARKING TAPE (GROOVED) ARROW		TYPE 2 PREFORMED MARKING TAPE (GROOVED) 24" YELLOW	TYPE 2 PREFORMED MARKING TAPE (GROOVED) 24" WHITE	TYPE 2 PREFORMED MARKING TAPE (GROOVED) WORD(ONLY)	TYPE2 PREFORMED MARKING TAPE (GROOVED 6" WHITE	
LOCATION	LT EACH	RT EACH	LF	LF	EACH	LF	REMARKS
HIGHWAY U.S. 60							
CL (INSIDE)			75				FROM BEGINNING OF CL TAPER TRANSITION TO END FOR LT LANE @ HWY 97 (5 24" HASH MARKS)
LANE LINE	2						WHITE LANE LINE FOR LT TURN LANE BEFORE HWY 97
NB				12			STOP BAR LEFT TURN LANE @ HWY 97
SB				12			STOP BAR LEFT TURN LANE @ HWY 97
LANE LINE	2						WHITE LANE LINE FOR LT TURN LANE AFTER HWY 97
CL (INSIDE)			75				INSIDE DOUBLE YELLOW TRANSITION CL (5 24" HASH MARKS)
CL (INSIDE)	10	10					INSIDE STRIPPED YELLOW
CL				12			FROM BEGINNING OF DOUBLE YELLOW CL TO INTERSECTION S.EISENHOWER (STOP BAR)
LANE LINE (LT)	1			12			LT LANE LINE WITH LT ARROW AND STOP BAR
SW						44	FROM SW ISLAND TO EDGELINE (2 LINES)
NW						21	NW CROSSWALK TO EDGLINE (2 LINES)
NE						51	FROM NE ISLAND TO EDGE OF PAVEMENT (2 LINES)
CROSSWALK						448	TOTAL CROSSWALK WITHIN INTERSECTION (8 LINES)
LANE LINE (RT)		1					RT LANE LINE WITH RT ARROW AND STOP BAR
LANE LINE	2			12			LANE LINE WITH 2 LT TURN ARROWS AND STOP BAR @ BEGINNING OF LINE AFTER S. EISENHOWER
CL				12			CENTERLINE FROM STOP BAR AFTER S. EISENHOWER INTERSECTION TO CENTER LANE
CL (INSIDE)	1	1					INSIDE STRIPPED YELLOW
CL (INSIDE)	1	1					INSIDE STRIPPED YELLOW
CL (INSIDE)	1	1					INSIDE STRIPPED YELLOW
LANE LINE	2			24			LT LANE LINE WITH 2 LT ARROWS AND 2 STOP BARS
NB				24			WHITE LANE LINE WITH 2 STOP BARS TO BRIDGE JOINT
NB				24			DOUBLE YELLOW CL TO BRIDGE JOINT 2 STOP BARS
SB		1					ISLAND AFTER HWY 37 INTERSECTION (VERTICAL LINE) TO JOINT
SB					1		WHITE LANE LINE WITH STOP BAR TO JOINT
SB	1						DOUBLE YELLOW CL TO JOINT WITH LT TURN ARROW
LT		2			1		LT EDGE ISLAND LINE AFTER INTERSECTION (HWY 37) WITH 2 RT ARROWS AND (ONLY) SYMBOL
LANE LINE	1			12			LT LANE LINE WITH 1 LT TURN ARROW AND STOP BAR AFTER HWY 37 INTERSECTION
CL				12			CL DOUBLE YELLOW WITH STOP BAR AFTER HWY 37 INTERSECTION
SUBTOTALS	24	17	150	168	2	564	
USE	41		150	168	2	564	

INDUCTION LOOP DETECTOR CABLE - IN DUCT					
LOG MILE	LOOP SIZE FEET	CABLE AT LOOP LF	CABLE TO PULLBOX LF	CABLE TO PULLBOX LF	REMARKS
US 60 & HWY 37 INTERSECTION					
41.712	6 X 30	270	58	328	LOOP DETECTORS REPLACED (SE)
41.712	6 X 30	270	126	396	LOOP DETECTORS REPLACED (SE)
41.677	6 X 30	270	22	292	LOOP DETECTORS REPLACED (SW)
41.677	6 X 30	270	104	374	LOOP DETECTORS REPLACED (SW)
41.712	6 X 30	270	26	296	LOOP DETECTORS REPLACED (NE)
41.712	6 X 30	270	90	360	LOOP DETECTORS REPLACED (NE)
41.677	6 X 30	270	34	304	LOOP DETECTORS REPLACED (NW)
41.677	6 X 30	270	90	360	LOOP DETECTORS REPLACED (NW)
			TOTAL	2710	
			USE	2710	

SUMMARY SHEET
SHEET 3 OF 4

STATE OF MISSOURI
STACY MARIE REESE
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DATE PREPARED 7/14/2014
ROUTE US60 | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY NEWTON/BARRY
JOB NO. J7P2204
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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REV.

SIGN	SIZE (IN.)	AREA (SQ. FT.)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION
WARNING SIGNS							
WO1-1L	48X48	16.00					TURN (SYMBOL LEFT ARROW)
WO1-1R	48X48	16.00					TURN (SYMBOL RIGHT ARROW)
WO1-2L	48X48	16.00					CURVE (SYMBOL LEFT ARROW)
WO1-2R	48X48	16.00					CURVE (SYMBOL RIGHT ARROW)
WO1-3L	48X48	16.00					REVERSE TURN (SYMBOL LEFT ARROW)
WO1-3R	48X48	16.00					REVERSE TURN (SYMBOL RIGHT ARROW)
WO1-4L	48X48	16.00					REVERSE CURVE (SYMBOL LEFT ARROW)
WO1-4R	48X48	16.00					REVERSE CURVE (SYMBOL RIGHT ARROW)
WO1-4bL	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
WO1-4bR	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
WO1-4cL	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
WO1-4cR	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
WO1-6	60X30	12.50					HORIZONTAL ARROW (SYMBOL)
WO1-6a	72X36	18.00					HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-7	60X30	12.50					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
WO1-7a	72X36	18.00					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE)
WO1-8	18X24	3.00					CHEVRON (SYMBOL)
WO1-8a	30X36	7.50					CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00					STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00					YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00					SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00					BE PREPARED TO STOP
WO3-5	**48X48**	**16.00**	4	64			**SPEED LIMIT AHEAD (3)**
WO4-1L	48X48	16.00					MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00					MERGE (SYMBOL FROM RIGHT)
WO5-1	48X48	16.00					ROAD/BRIDGE/RAMP NARROWS
WO5-3	48X48	16.00					ONE LANE BRIDGE
WO5-5	48X48	16.00					NARROW LANES
WO6-1	48X48	16.00					DIVIDED HIGHWAY (SYMBOL)
WO6-2	48X48	16.00					DIVIDED HIGHWAY END (SYMBOL)
WO6-3	48X48	16.00					TWO WAY TRAFFIC (SYMBOL)
WO7-3a	30X24	5.00					NEXT XX MILES (PLAQUE)
WO8-1	**48X48**	**16.00**	6	96			**BUMP**
WO8-2	48X48	16.00					DIP
WO8-3	48X48	16.00					PAVEMENT ENDS
WO8-4	48X48	16.00					SOFT SHOULDER
WO8-5	48X48	16.00					SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00					TRUCK CROSSING WITH FLAGS
WO8-6c	48X48	16.00					TRUCK ENTRANCE
WO8-7	36X36	9.00					LOOSE GRAVEL
WO8-9	48X48	16.00					LOW SHOULDER
WO8-11	**48X48**	**16.00**	34	544			**UNEVEN LANES (36)**
WO8-12	**48X48**	**16.00**	15	240			**NO CENTER LINE (35)**
W10-1	42 RND.	9.62					RAILROAD CROSSING
WO12-1	**24X24**	**4.00**	2	8			**DOUBLE DOWN ARROW (SYMBOL) (45)**
WO12-2	48X48	16.00					LOW CLEARANCE (SYMBOL)
WO12-2x	24X18	3.00					LOW CLEARANCE (PLAQUE)
WO12-2a	84X24	14.00					OVERHEAD LOW CLEARANCE (FEET AND INCHES)
WO8-15	48X48	16.00					GROOVED PAVEMENT
WO8-15p	30X24	5.00					MOTORCYCLE (PLAQUE)
WO8-17	48X48	16.00					SHOULDER DROP-OFF (SYMBOL)
WO8-17p	30X24	5.00					SHOULDER DROP-OFF (PLAQUE)
SPECIAL	120X60	50.00					LOW CLEARANCE XX FT XX IN XX MILES AHEAD
SPECIAL	120X60	50.00					WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
WO13-1	30X30	6.25					ADVISORY SPEED (PLAQUE)
WO16-2	30X24	5.00					XXX FEET (PLAQUE)
WO16-3	30X24	5.00					X MILE (PLAQUE)
WO20-1	**48X48**	**16.00**	60	960			**ROAD/BRIDGE/RAMP WORK AHEAD (2)**
WO20-2	48X48	16.00					DETOUR AHEAD
WO20-3	48X48	16.00					ROAD CLOSED AHEAD
WO20-4	**48X48**	**16.00**	4	64			**ONE LANE ROAD AHEAD (7)**
WO20-5	48X48	16.00	2	32			RIGHT/CENTER/LEFT LANE CLOSED AHEAD (5)
WO20-5a	48X48	16.00					2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
WO20-6a	**48X48**	**16.00**	2	32			**RIGHT/CENTER/LEFT LANE CLOSED (6)**
WO20-7a	**48X48**	**16.00**	6	96			**FLAGGER (SYMBOL) WITH FLAGS (8)**
WO21-2	36X36	9.00					FRESH OIL
WO21-5b	48X48	16.00					SHOULDER WORK AHEAD
WO22-1	48X48	16.00					BLASTING ZONE AHEAD
WO22-2	42X36	10.50					TURN OFF 2-WAY RADIO AND PHONE
WO22-3	42X36	10.50					END BLASTING ZONE
WO22-6e	21X15	2.19					WET PAINT (ARROW PIVOTS)
GUIDE SIGNS							
SPECIAL	36X36	9.00					FRESH OIL/LOOSE GRAVEL
E05-1	36X48	12.00					GORE EXIT
E05-2	48X36	12.00					EXIT OPEN
E05-2a	48X36	12.00					EXIT CLOSED
GO20-1	**60X24**	**10.00**	2	20			**ROAD WORK NEXT 3 MILES (1)**
GO20-2	**48X24**	**8.00**	2	16			**END ROAD WORK (26)**
GO20-4	**36X18**	**4.50**	1	4.50			**PILOT CAR FOLLOW ME (53)**
SPECIAL	**42X30**	**8.75**	10	87.5			**PLEASE WAIT FOR PILOT CAR (58)**
GO20-5aP	**36X24**	**6.00**	4	24			**WORK ZONE (PLAQUE) (54)**
MO4-8a	24X18	3.00					END DETOUR
MO4-9L	48X36	12.00					DETOUR (LEFT ARROW)
MO4-9R	48X36	12.00					DETOUR (RIGHT ARROW)
MO4-10L	48X18	6.00					DETOUR (ARROW LEFT)
MO4-10R	48X18	6.00					DETOUR (ARROW RIGHT)
REGULATORY SIGNS							
R1-1	48X48	13.25					STOP
R1-2	48 TRI.	6.93					YIELD
R1-2a	36X36	9.00					TO ONCOMING TRAFFIC (PLAQUE)
R1-3	20X9	1.25					X-WAY (PLAQUE)
R2-1	**36X48**	**12.00**	16	192			**SPEED LIMIT (4-65,4-55,4-45,4-35) (25) (4)**
R3-1	48X48	16.00					NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00					NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00					NO TURNS
R3-4	48X48	16.00					NO U-TURN (SYMBOL)
R3-7L	**30X30**	**6.25**	2	13.5			**LEFT LANE MUST TURN LEFT (19)**
R3-7R	**30X30**	**6.25**	2	13.5			**RIGHT LANE MUST TURN RIGHT (19)**
R4-1	36X48	12.00					DO NOT PASS
R4-2	36X48	12.00					PASS WITH CARE
R4-7aL	36X48	12.00					KEEP LEFT (HORIZONTAL ARROW)
R4-7a	36X48	12.00					KEEP RIGHT (HORIZONTAL ARROW)
R5-1	30X30	6.25					DO NOT ENTER
R5-1a	36X24	6.00					WRONG WAY
R6-1L	48X18	6.00					ONE WAY ARROW (LEFT)
R6-1R	48X18	6.00					ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00					ONE WAY (LEFT)
R6-2R	24X30	5.00					ONE WAY (RIGHT)
R10-6	24X36	6.00					STOP HERE ON RED (45° ARROW)
R11-2	48X30	10.00					ROAD CLOSED
R11-3a	60X30	12.50					ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50					ROAD CLOSED TO THRU TRAFFIC
S4-4	36X15	3.75					WHEN FLASHING
CONST-3A	60X48	20.00					FINE SIGN
CONST-3X	56X12	4.67					SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS							
SPECIAL	36X48	12.00					POINT OF PRESENCE
SPECIAL	**96X48**	**32.00**	2	64			**POINT OF PRESENCE (16)**
CONST-7-48	48X24	8.00					RATE OUR WORK ZONE
CONST-7-72	**72X36**	**18.00**	2	36			**RATE OUR WORK ZONE (10)**
616-10.05 CONSTRUCTION SIGNS TOTAL				2607			
616-10.10 RELOCATED SIGNS TOTAL							

EFFECTIVE: 08-01-2012

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR (8 SAND BARRELS)
6122009		IMPACT ATTENUATOR (9 SAND BARRELS)
6122010		IMPACT ATTENUATOR (10 SAND BARRELS)
6122012		IMPACT ATTENUATOR (12 SAND BARRELS)
6122014		IMPACT ATTENUATOR (14 SAND BARRELS)
6122017		IMPACT ATTENUATOR (17 SAND BARRELS)
6122019		IMPACT ATTENUATOR (19 SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR ARRAY (RELOCATION)
6123000A	1	**TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)**
6161007		SPEED LIMIT AND STROBE LIGHT ASSEMBLY
6161008		ADVANCED WARNING RAIL SYSTEM
6161009	28	**FLAG ASSEMBLY**
6161020		CHANNELIZER (DRUM-LIKE)
6161022		CHANNELIZER (CONES)
6161024		CHANNELIZER (TRIM LINE) WITH LIGHT
6161025	100	**CHANNELIZER (TRIM LINE)**
6161026		CHANNELIZER (VERTICAL PANEL)
6161027		CHANNELIZER (VERTICAL PANEL) WITH LIGHT
6161028		CHANNELIZER
6161030		TYPE III MOVEABLE BARRICADE
6161031		TYPE III MOVEABLE BARRICADE WITH LIGHT
6161033		DIRECTION INDICATOR BARRICADE
6161034		DIRECTION INDICATOR BARRICADE, WITH LIGHT
6161040	1	**FLASHING ARROW PANEL**
6161047		TYPE III OBJECT MARKER
6161051		WARNING LIGHT, TYPE A
6161052	28	**WARNING LIGHT, TYPE B**
6161053		WARNING LIGHT, TYPE C
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098	4	**CHANGEABLE MESSAGE SIGN, CONTRACTOR FURNISHED/RETAINED**
6161100		CHANGEABLE MESSAGE SIGN, CONTRACTOR FURNISHED/COMMISSION RETAINED
6173600D		CONTRACTOR FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER
6173602B		CONTRACTOR FURNISHED/COMMISSION RETAINED TEMPORARY TRAFFIC BARRIER
6174000A		TEMPORARY TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		COMMISSION FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER
6177000B		COMMISSION FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER HEIGHT TRANSITION
9019400		TEMPORARY LIGHTING
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/14/2014

ROUTE	STATE
US60	MO
DISTRICT	SHEET NO.
SW	3

COUNTY: NEWTON/BARRY
JOB NO.: J7P2204
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

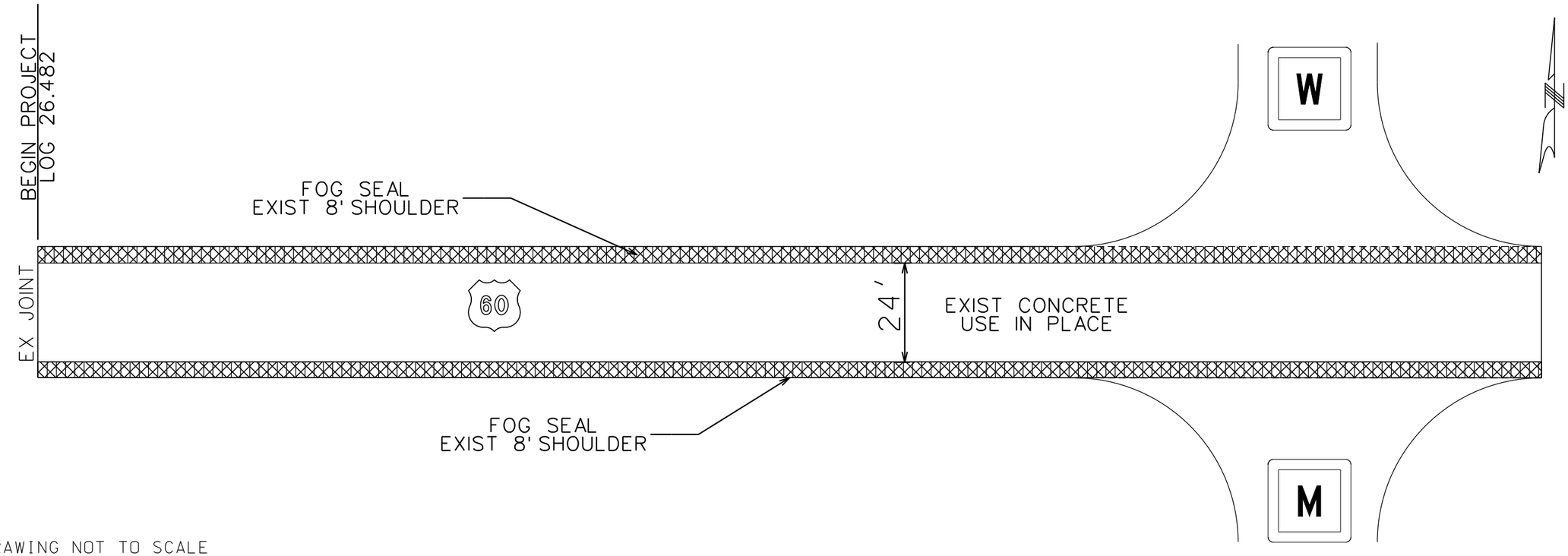
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.

SUMMARY SHEET

SHEET 4 OF 4



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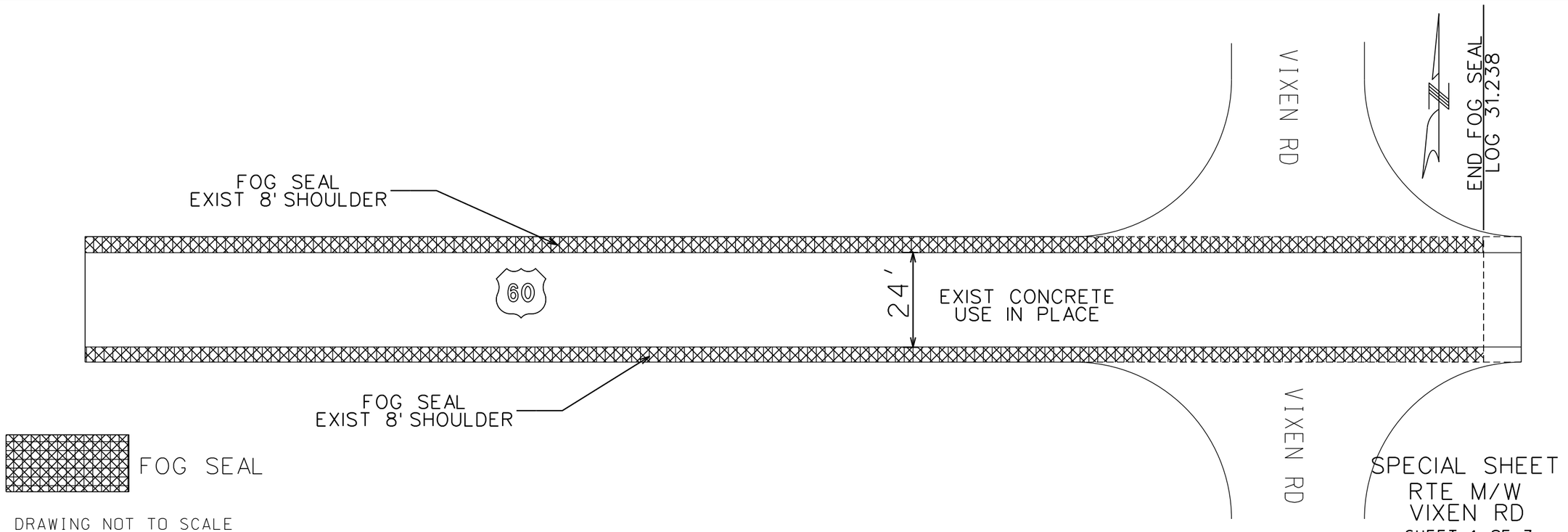

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SPECIAL SHEET
RTE M/W
VIXEN RD
SHEET 1 OF 7

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

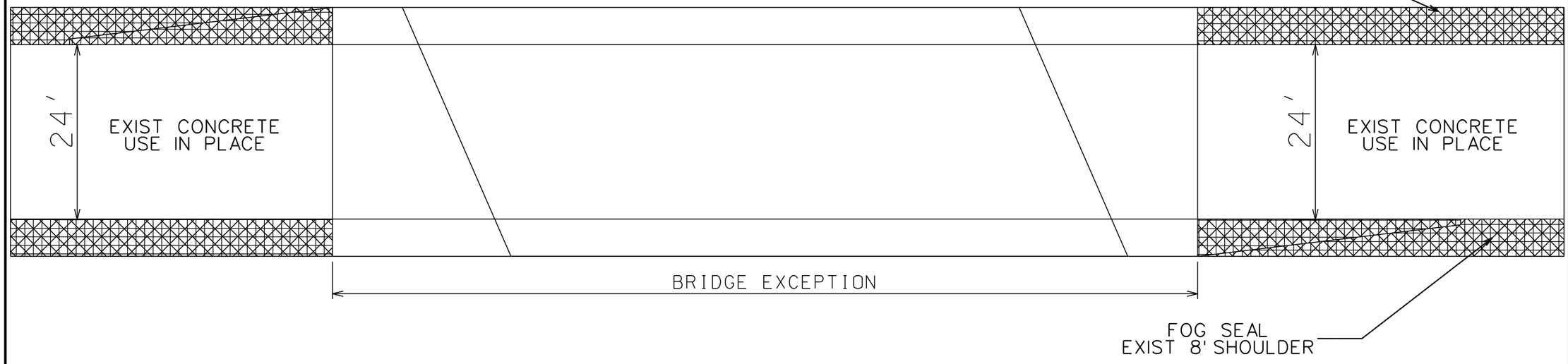
DATE PREPARED	7/14/2014
ROUTE	STATE
US60	MO
DISTRICT	SHEET NO.
SW	4
COUNTY	NEWTON/BARRY
JOB NO.	J7P2204
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



BRIDGE EXCEPTIONS
A4893 & A4894

BRIDGE A4893 LOG 28.888 - 28.938
BRIDGE A4894 LOG 30.068 - 30.189

NOTE: REPLACE GUARDRAIL END SECTIONS ON ALL FOUR CORNERS OF BRIDGES WITH NEW CWT'S

FOG SEAL

DRAWING NOT TO SCALE

SPECIAL SHEET
BRIDGE
EXCEPTIONS
SHEET 2 OF 7

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	7/14/2014
ROUTE	STATE
US60	MO
DISTRICT	SHEET NO.
SW	5
COUNTY	NEWTON/BARRY
JOB NO.	J7P2204
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

VIXEN RD

LOG 31.238
END FOG SEAL SHOULDER
BEGIN 0.5"COLDMILL/1.5"OVERLAY

0.5" COLDMILL & 1.5" SP095C OVERLAY

1.5" BP-2

EXIST 6' SHOULDER
1" BP-2

24'

EXIST CONCRETE
USE IN PLACE

60

28'

EXIST 6' SHOULDER
1" BP-2

VIXEN RD

LOG 31.238

50'
MODIFIED
COLDMILL
SEE DETAIL

LOG 31.247

LOG 31.238

50'
MODIFIED COLDMILL
FROM 1.5" TO 0.5"

LOG 31.247

0.5" COLDMILL
1.5" SP095C OVERLAY

1.5"SP095C

1.5"

EXIST
CONCRETE

0.5"COLDMILL

-FOG SEAL

-MODIFIED COLDMILL

-0.5" MILL & 1.5" SP095C OVERLAY

DRAWING NOT TO SCALE

SPECIAL SHEET
VIXEN RD TO RTE 97

SHEET 3 OF 7

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE PREPARED
7/14/2014

ROUTE	STATE
US60	MO
DISTRICT	SHEET NO.
SW	6

COUNTY
NEWTON/BARRY

JOB NO.
J7P2204

CONTRACT ID.

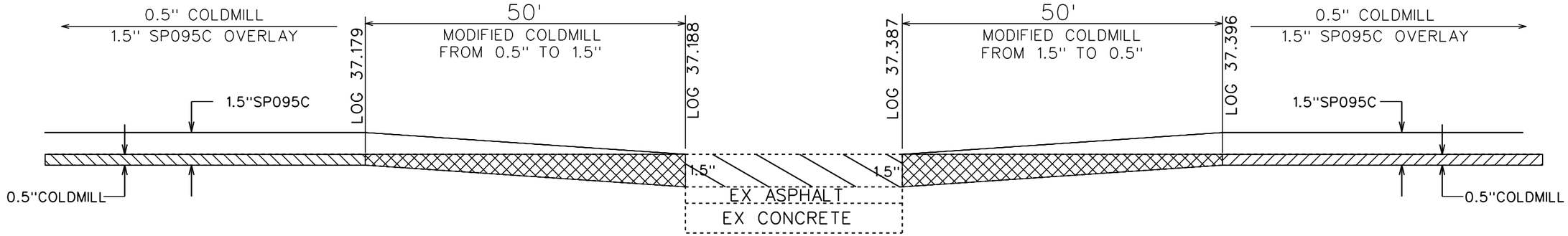
PROJECT NO.

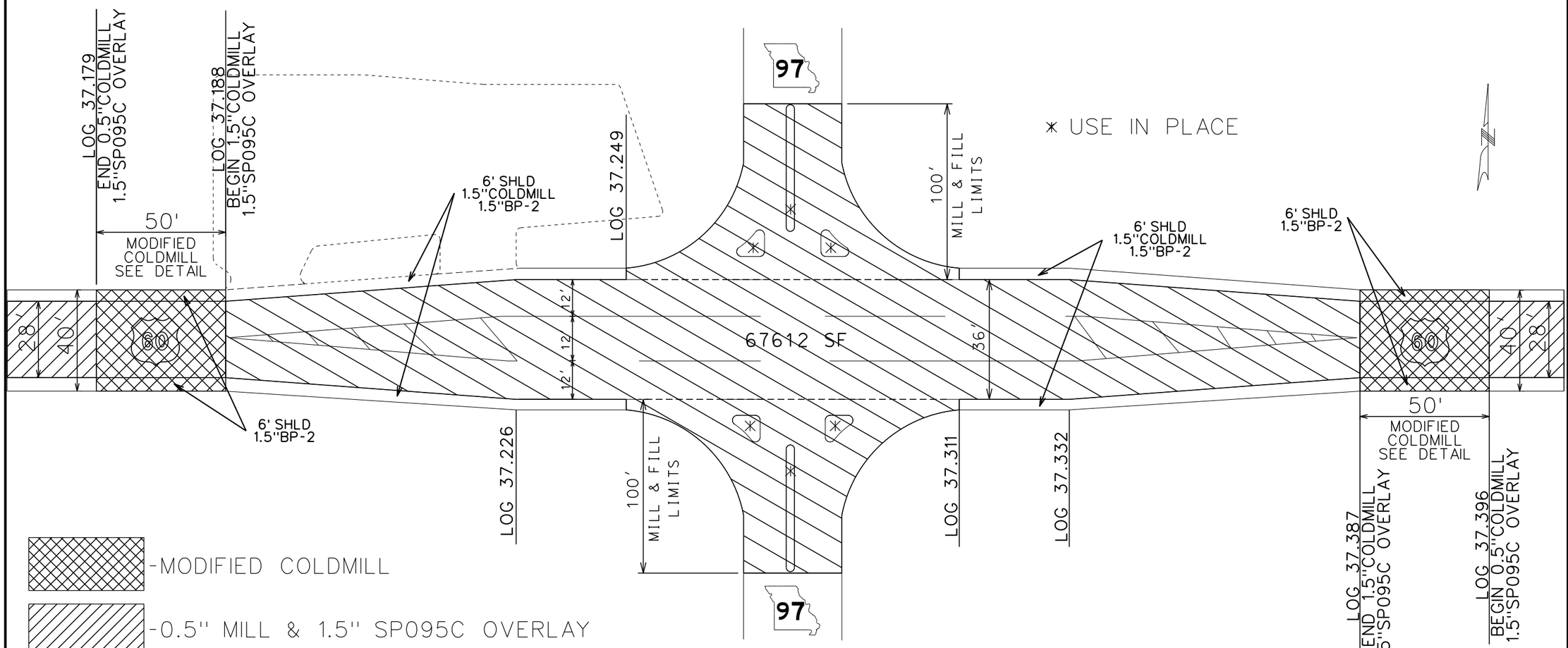
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)





DRAWING NOT TO SCALE

SPECIAL SHEET
ROUTE 97 @ US60

SHEET 4 OF 7

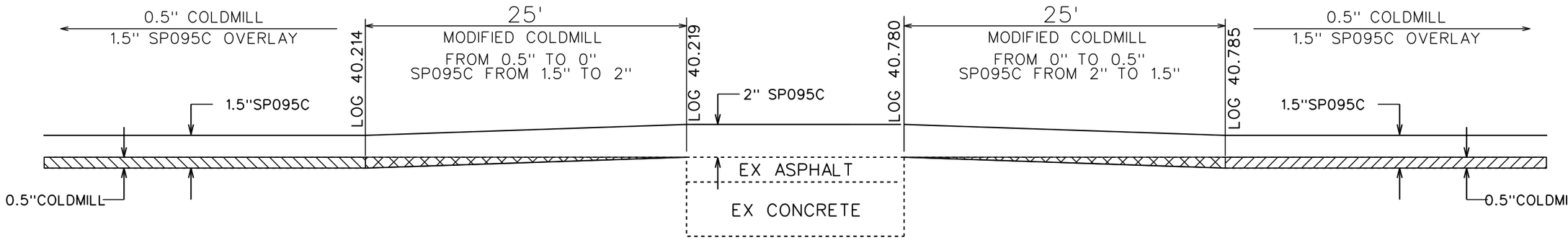
STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

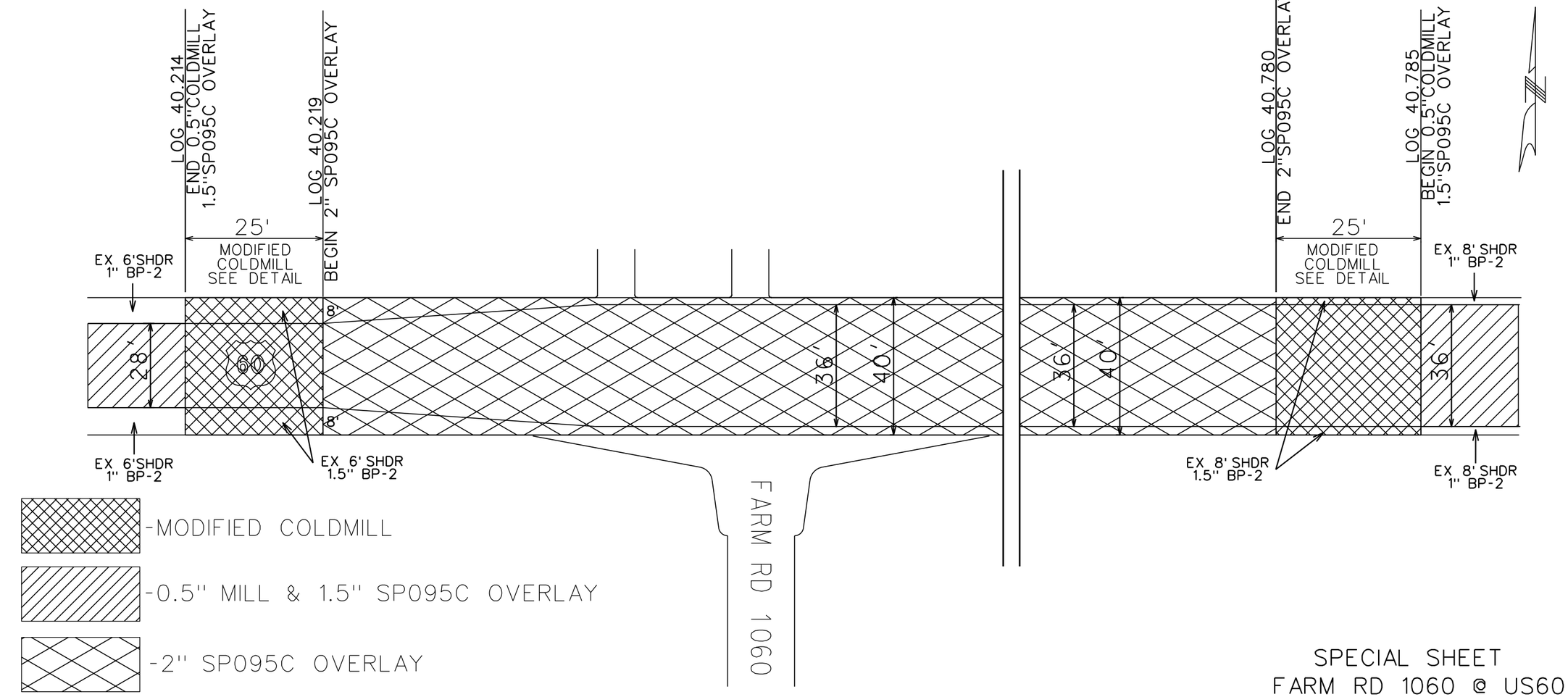
DATE PREPARED: 7/14/2014
ROUTE: US60 | STATE: MO
DISTRICT: SW | SHEET NO.: 7
COUNTY: NEWTON/BARRY
JOB NO.: J7P2204
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)





-MODIFIED COLDMILL

-0.5'' MILL & 1.5'' SP095C OVERLAY

-2'' SP095C OVERLAY

DRAWING NOT TO SCALE

SPECIAL SHEET
FARM RD 1060 @ US60

SHEET 5 OF 7

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/14/2014

ROUTE	STATE
US60	MO
DISTRICT	SHEET NO.
SW	8

COUNTY: NEWTON/BARRY

JOB NO.: J7P2204

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

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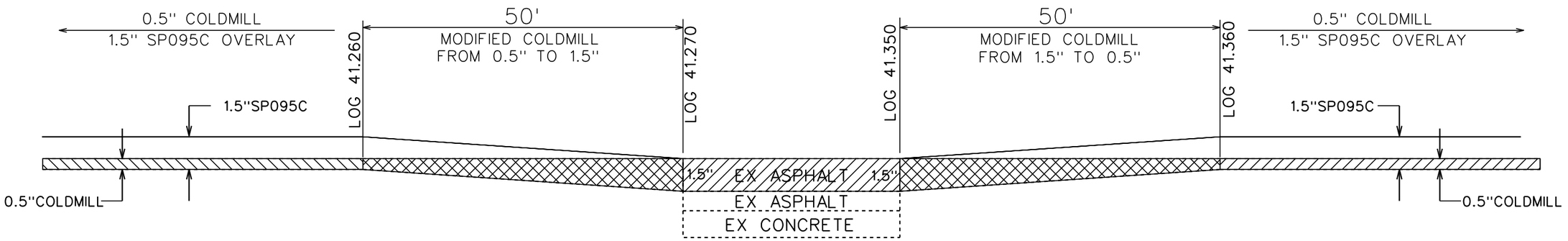
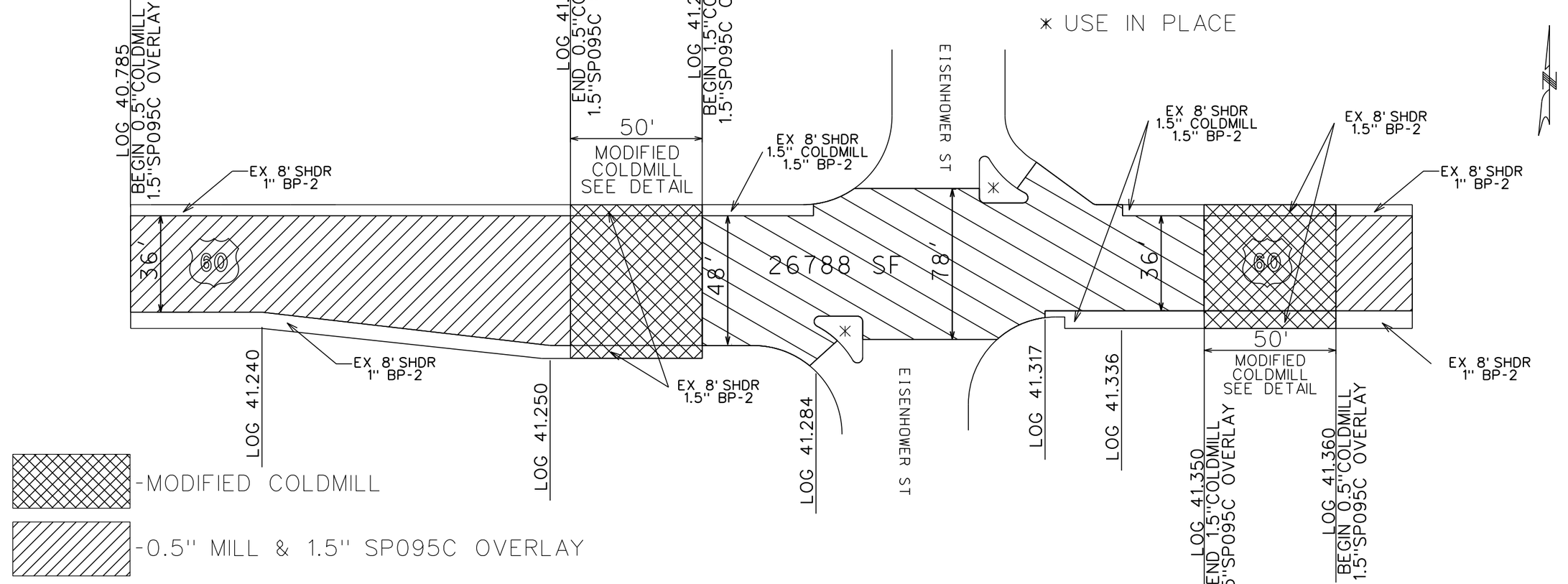
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)





DRAWING NOT TO SCALE

SPECIAL SHEET
EISENHOWER

SHEET 6 OF 7

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

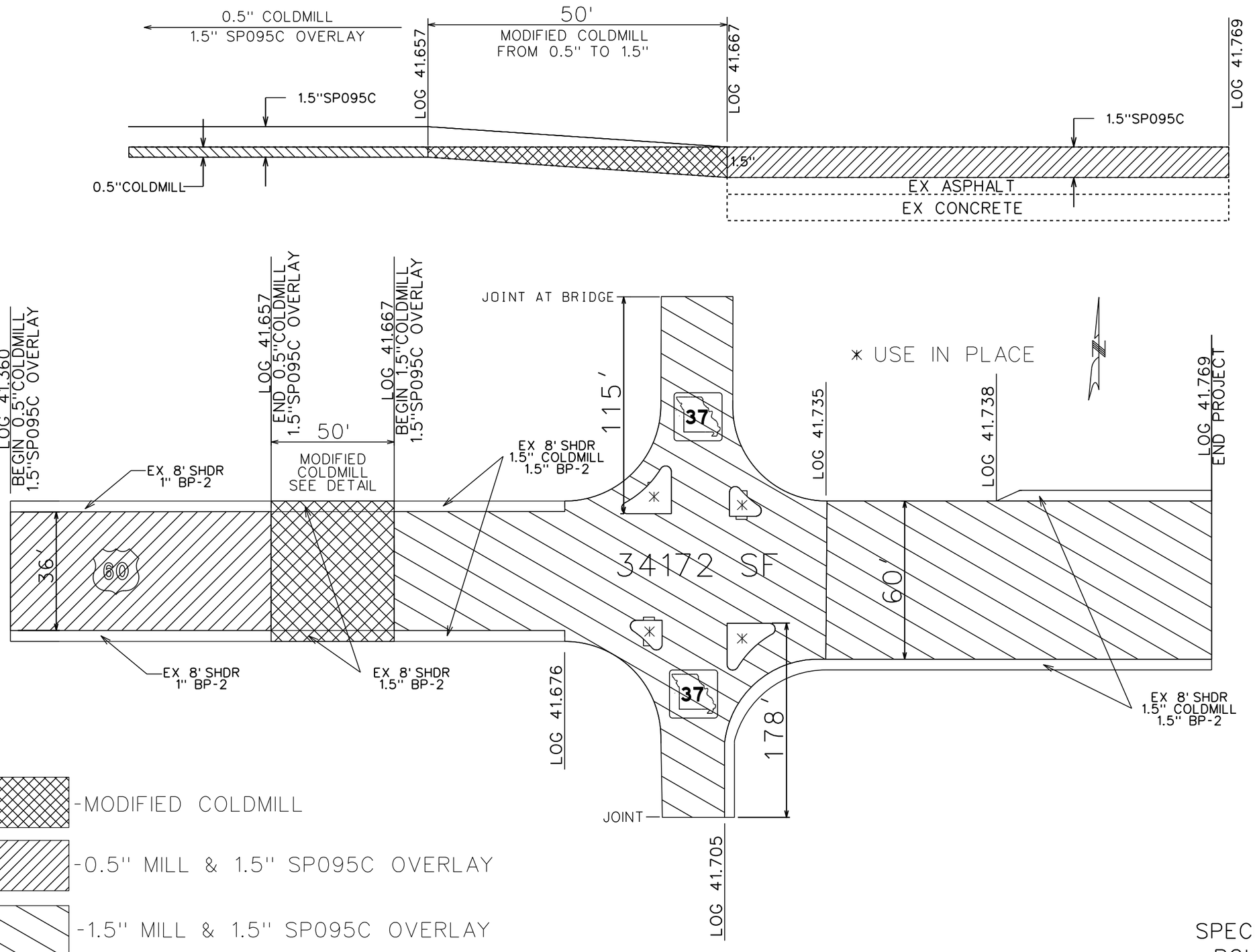
DATE PREPARED	7/14/2014
ROUTE	US60
STATE	MO
DISTRICT	SW
SHEET NO.	9
COUNTY	NEWTON/BARRY
JOB NO.	J7P2204
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



DRAWING NOT TO SCALE

SPECIAL SHEET
ROUTE 37

SHEET 7 OF 7

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
7/14/2014

ROUTE	STATE
US60	MO
DISTRICT	SHEET NO.
SW	10

COUNTY
NEWTON/BARRY

JOB NO.
J7P2204

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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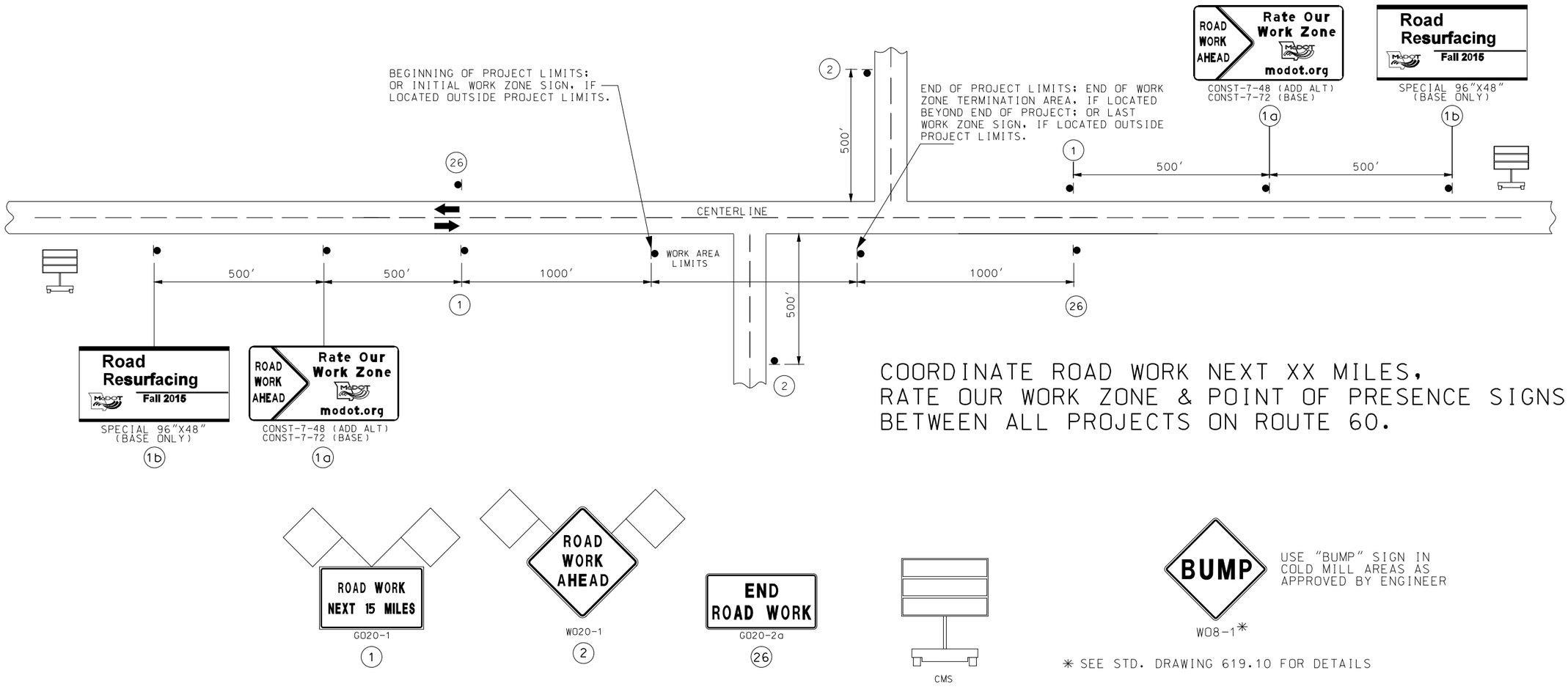
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

NOTES:

1. ANY EXIST. SIGNS THAT CONFLICT WITH TRAFFIC CONTROL PLAN SHALL BE COVERED.
2. TEMP. SIGNING SHOWN IS FOR WORK ON ONE SIDE OF THE ROAD. FOR WORK ON THE OTHER SIDE, REVERSE ORDER OF THE SIGNS AND CHANNELIZERS.
3. SIGNING SHOWN SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
4. ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER.
5. SEE STANDARD DRAWING 616.10, 619.10, AND 620.10 FOR ADDITIONAL DETAILS AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS.
6. SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE. PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT 1/2 MILE.
7. TEMPORARY SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED WHEN THE CONDITIONS REQUIRING REDUCED SPEEDS DO NOT EXIST.
8. NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, OR CONSTRUCTION SIGNS.
9. ALL SIGNS WITHIN THE FIRST ADVANCE WARNING AREA SHALL BE ENHANCED WITH FLAGS.
10. POINT OF PRESENCE (SPECIAL 96"X48") SIGN IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS. IF A VISIBLE LOCATION WITHIN THE PROJECT IS NOT AVAILABLE, THE SIGN MAY BE PLACED 500 FEET BEFORE CONST-7-72.
11. PORTABLE MOUNTED SIGNS ARE PAID FOR ON THE BASE PROJECT AND WILL BE USED ON THE ADD ALTERNATES. POST MOUNTED SIGNS ARE PAID FOR ON BOTH THE BASE PROJECT AND THE ADD ALTERNATE.



COORDINATE ROAD WORK NEXT XX MILES,
RATE OUR WORK ZONE & POINT OF PRESENCE SIGNS
BETWEEN ALL PROJECTS ON ROUTE 60.

CMS

W08-1*

USE "BUMP" SIGN IN COLD MILL AREAS AS APPROVED BY ENGINEER

* SEE STD. DRAWING 619.10 FOR DETAILS

NOTES:

SIGN (1) IS ONLY USED ON PROJECT LENGTHS 2 MILES OR GREATER.

SIGN (26) MAY BE USED ON PROJECTS LESS THAN 2 MILES.

PROVIDE SIGNS IN EACH DIRECTION ON TWO-WAY HIGHWAY.

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

FLAGS WILL NOT BE REQUIRED ON SIGN (2) LOCATED ON SIDE ROADS.

TRAFFIC CONTROL
SHEET 1 OF 5

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/14/2014

ROUTE	STATE
US60	MO
DISTRICT	SHEET NO.
SW	11

COUNTY: NEWTON/BARRY
JOB NO.: J7P2204
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

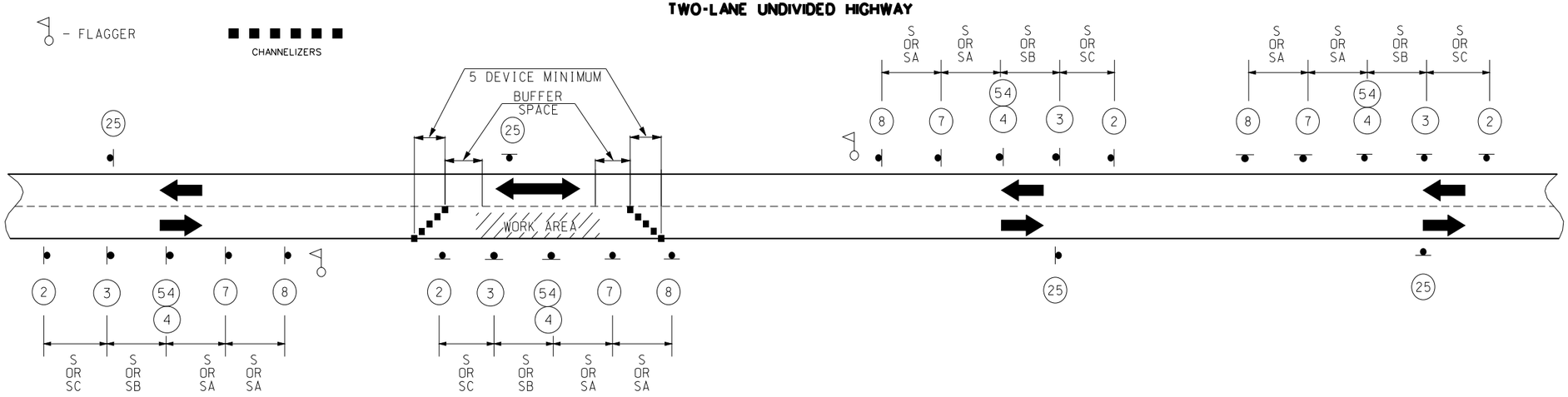
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TWO-WAY SINGLE LANE RESURFACING OPERATION

TWO-LANE UNDIVIDED HIGHWAY



SIGN SETS 1 AND 3 ARE ACTIVE AND (I.E., SIGNS FACE ONCOMING TRAFFIC).

SIGN SETS 2 AND 4 ARE INACTIVE (I.E., SIGNS DO NOT FACE EITHER DIRECTION OF TRAFFIC) WHEN THE RESURFACING OPERATION IS LOCATED BETWEEN SIGN SETS 1 AND 3.

WHEN SIGN SETS 2 AND 4 ARE ACTIVE, SIGN SETS 1 AND 3 BECOME INACTIVE AND ARE ADVANCED TO BECOME SETS 2 AND 4 WITH SIGN LEGENDS TURNED AWAY FROM BOTH DIRECTIONS OF TRAFFIC. WHEN THE RESURFACING OPERATION ADVANCES TO BETWEEN SIGN SETS 2 AND 4, SIGN SETS 2 AND 4 BECOME ACTIVE (I.E., NEW SIGN SETS 1 AND 3) AND SIGN SETS 1 AND 3 ADVANCED IN THE DIRECTION OF THE OPERATION (I.E., NEW SIGN SETS 2 AND 4).

SIGNS 3 AND 4 ARE OPTIONAL FOR THIS SET UP AND WILL BE PLACED ACCORDINGLY. SIGN 3 WILL ONLY BE USED WHERE SIGN 4 IS GREATER THAN 10 MPH BELOW THE POSTED SPEED OF SIGN 25

SIGNS ARE PROVIDED FOR AN ESTIMATED 4 MILES OF WORK (ESTIMATED 1 DAYS AMOUNT OF WORK). ALL OTHER SIGNS ARE INDENTAL TO THE PROJECT AND NO COST TO MODOT.

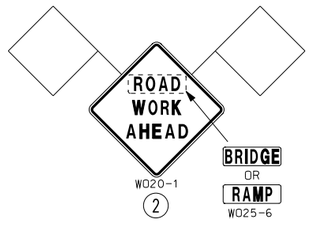
USE BEGIN/END PROJECT SIGNING SHEET
DAYLIGHT FLAGGING OPERATIONS ONLY.

NO DIRECT PAYMENT WILL BE MADE FOR CONES, OR FOR THE RELOCATION OF CHANNELIZERS AS SHOWN ON THE PLANS. CONES ALLOWABLE FOR DAYLIGHT OPERATIONS ONLY.

CHANNELIZING DEVICES LOCATED DOWNSTREAM OF THE ONE-LANE, TWO-WAY TAPER ARE OPTIONAL. THESE DEVICES SHOULD BE ELIMINATED WHEN THEIR USE WILL REDUCE THE USABLE LANE WIDTH, INCLUDING ANY ACCEPTABLE SHOULDERS, TO LESS THAN 10'OR WILL SIGNIFICANTLY AFFECT THE RESURFACING OPERATION.

FLAG ASSEMBLIES FOR SIGNS WILL BE PAID FOR AS EACH PER SIGN. EXCEPT FOR SIGN W020-7 WHICH IS SUBSIDIARY TO THE SIGN.

ADD TYPE B WARNING LIGHTS TO ADVANCE WARNING SIGNS WHERE NIGHTTIME WORK HOURS ARE REQUIRED.



W020-1 (2)



W020-4 (7)



W020-7a (8)



(NORMAL SPEED) R2-1 (25)



SPECIAL (53)



G020-4 (58)

(1) SIGN 53 "PILOT CAR FOLLOW ME" SHALL BE IN CONTRACTOR'S RESPONSIBILITY WHEN IN USE DURING CONSTRUCTION.

(2) SIGN 58 SHALL BE PLACED AT ALL SIDE ROADS. 150' FROM INTERSECTION

SIGN SPACING FOR ADVANCE SIGN SERIES (2) (3)		
SPEED (1) MPH	NON-DIVIDED HIGHWAYS	DIVIDED HIGHWAYS
0 - 35	200	200
40 - 45	350	500
50 - 55	500	1000
60 - 70	SA - 1000 FT. SB - 1500 FT. AND SC - 2640 FT.	

NOTES:

DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.

(1) POSTED SPEED LIMIT PRIOR TO ROAD WORK.

(2) SPACING BETWEEN SIGNS, BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER OR SIGNED CONDITION.

(3) SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

SPEED MPH	SHOULDER TAPER LENGTH (ft)	OPTIONAL BUFFER LENGTH (ft)
0-35	70 FT	250 FT
40-45	150 FT	360 FT
50-55	185 FT	495 FT
60-70	235 FT	730 FT



W03-5 (3)



(REDUCED SPEED) R2-1 (4)



G023-1 (54)

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES					
SPEED MPH (S)	MINIMUM TAPER LENGTHS (L) FOR LATERAL SHIFTS (W)			MAXIMUM CHANNELIZER SPACING	
	10 FT	11 FT	12 FT	THROUGH TAPER	THROUGH WORK AREA
0-35	205FT	225FT	245FT	35FT	50FT
40-45	450FT	495FT	540FT	40FT	100FT
50-55	550FT	605FT	660FT	50FT	100FT
60-70	700FT	770FT	840FT	60FT	100FT

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/14/2014

ROUTE	STATE
US60	MO
DISTRICT	SHEET NO.
SW	12

COUNTY NEWTON/BARRY

JOB NO. J7P2204

CONTRACT ID.

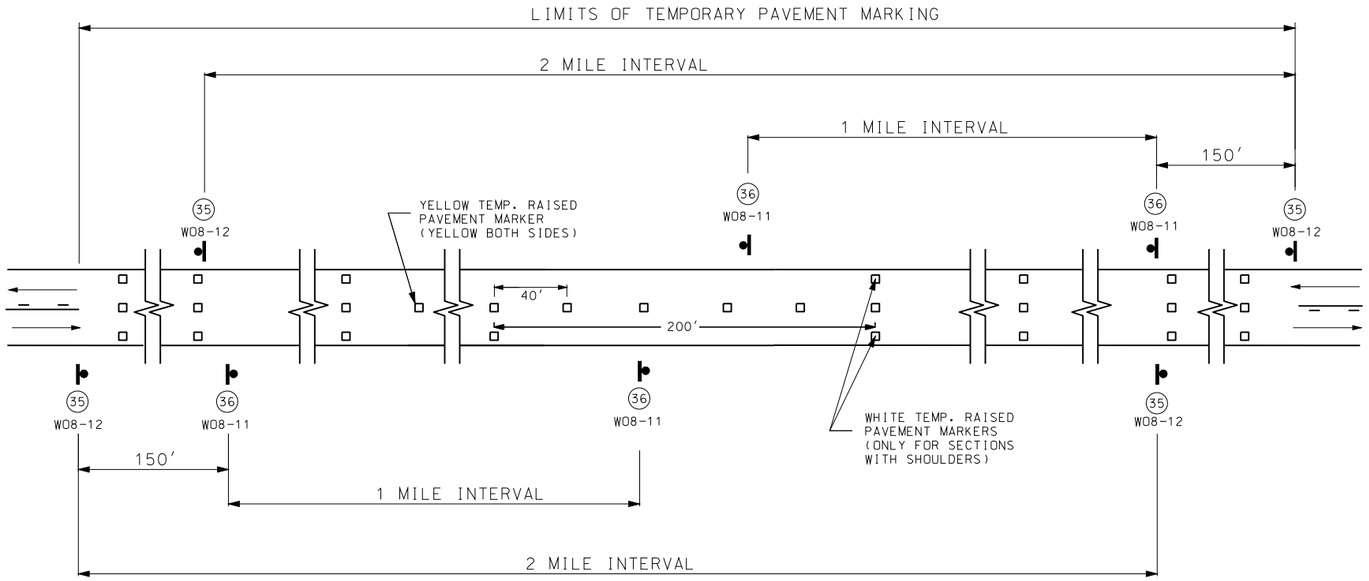
PROJECT NO.

BRIDGE NO.

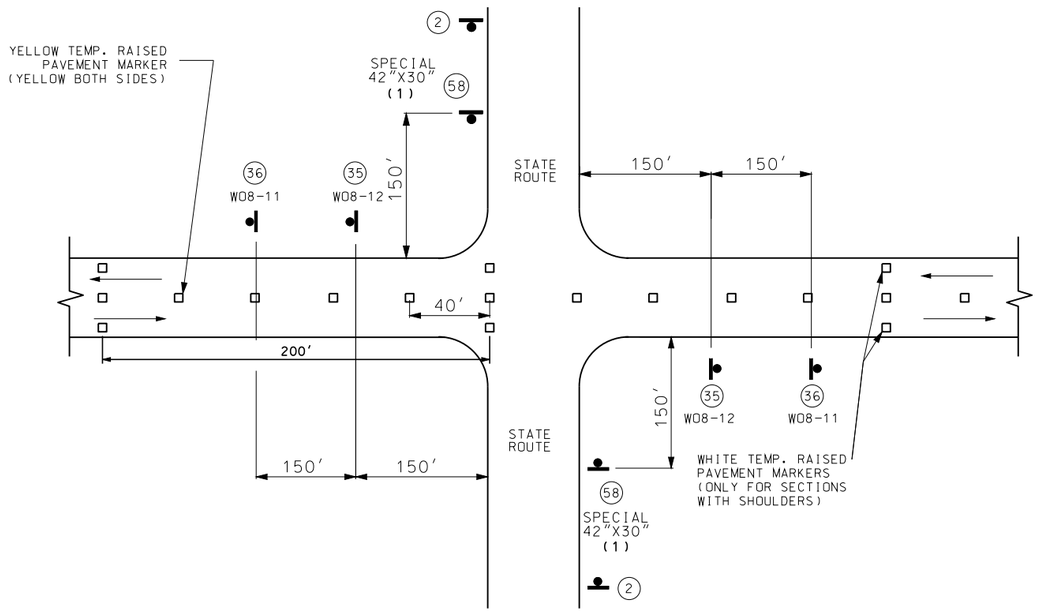
DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

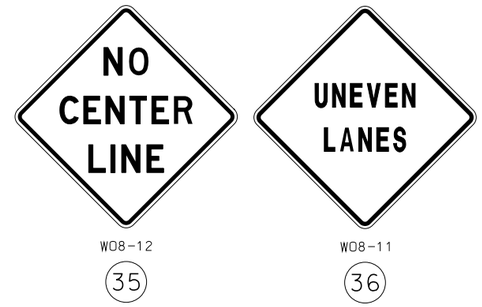
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

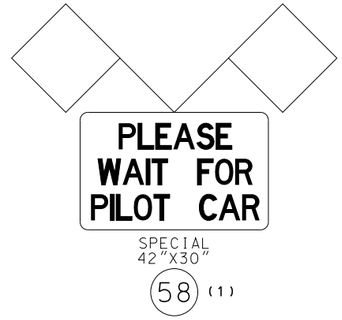


SIGN SPACING FOR MAINLINE



SIGN SPACING AT STATE ROUTE INTERSECTIONS





(1) ADDITIONAL SIDEROADS MAY BE SIGNED AS APPROVED BY THE ENGINEER.

NOTES:

SIGN (35) AND TEMPORARY PAVEMENT MARKING INSTALLED WHERE CENTERLINE STRIPING HAS BEEN COVERED OR REMOVED. SIGNS ARE TO REMAIN IN PLACE UNTIL THE PERMANENT CENTERLINE PAVEMENT MARKINGS ARE IN PLACE. SIGNS SHALL BE COVERED OR REMOVED WHEN PAVEMENT CENTERLINE MARKING HAS BEEN INSTALLED.

SIGN (35) IS PLACED AT APPROXIMATELY TWO-MILE INTERVALS AND AT STATE ROUTE JUNCTIONS. WHEN THE INSTALLATION AT A JUNCTION IS WITHIN ONE-EIGHTH MILE OF THE NORMAL MAINLINE SIGN (35), THE LATTER MAY BE ELIMINATED.

ALL SIGNS THAT ARE POST MOUNTED SHALL BE IN ACCORDANCE WITH STANDARD PLAN 616.10 AND 903.03.

TEMPORARY RAISED PAVEMENT MARKERS SHALL BE INSTALLED BY THE END OF EACH DAY.

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
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DATE PREPARED 7/14/2014

ROUTE	STATE
US60	MO
DISTRICT	SHEET NO.
SW	13

COUNTY NEWTON/BARRY

JOB NO. J7P2204

CONTRACT ID.

PROJECT NO.

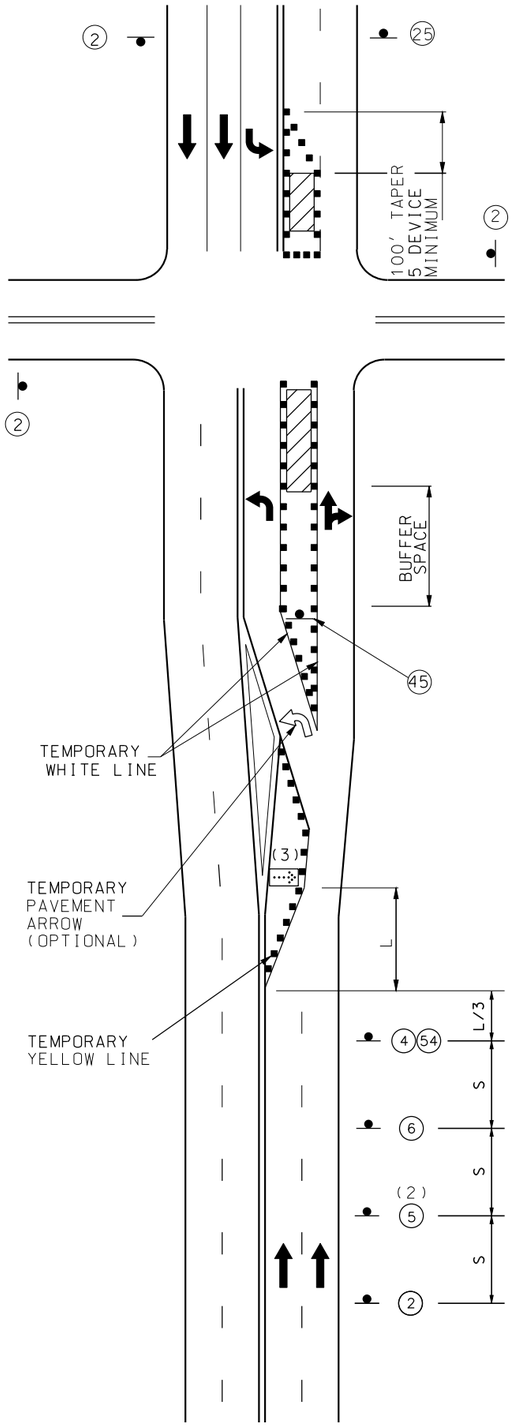
BRIDGE NO.

DESCRIPTION	DATE

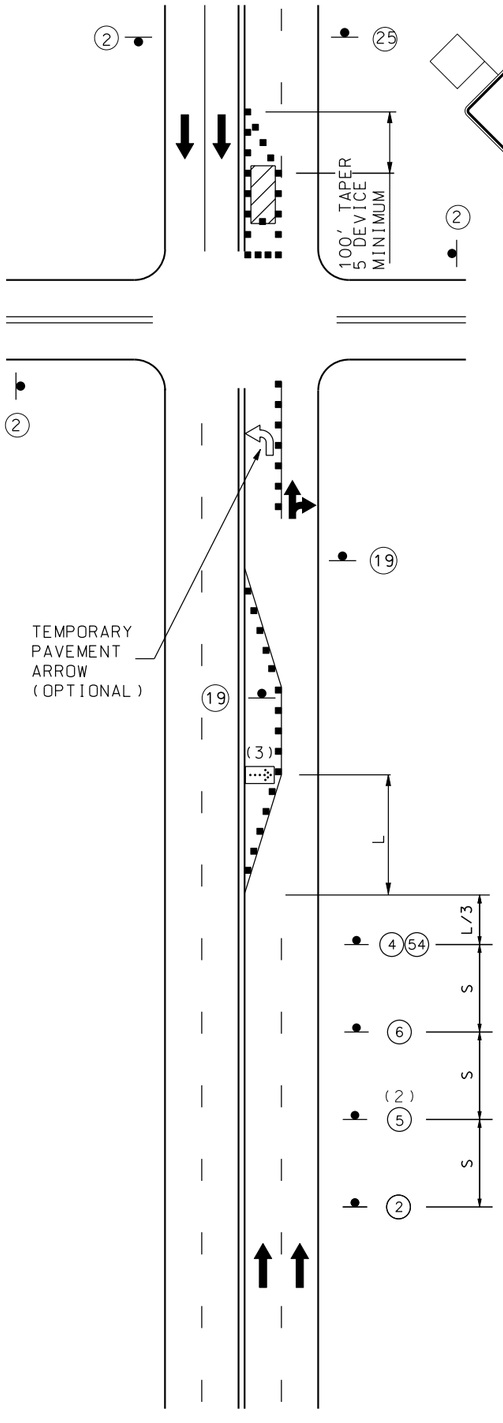
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

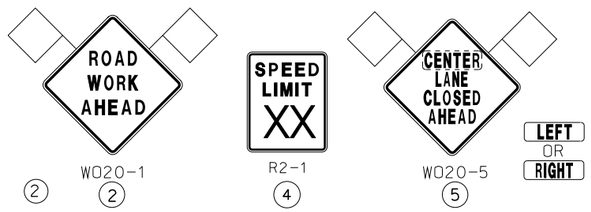
REV.

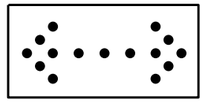


WORK ON NEAR
OR FAR SIDE



WORK FAR SIDE ONLY





FLASHING
ARROW PANEL



CHANNELIZERS (1)

NOTES:

FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING, TIMING, INDICATIONS OR DETECTOR SETTINGS.

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

FOR SHORT TERM OPERATIONS, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, A 10' DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKING. ALL OTHER SPACINGS ARE ONE HALF OF THE SPACING SHOWN IN TABLE.

(1) CONES ALLOWABLE FOR DAYLIGHT OPERATIONS ONLY.

(2) SIGN (5) MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR THE FULL SIGN SERIES.

(3) THE FLASHING ARROW BOARD SHOULD BE LOCATED AT THE BEGINNING OF THE MERGING TAPER WHEN MEDIAN WIDTH ALLOWS ROOM.

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES						
SPEED MPH (P)	MINIMUM TAPER LENGTHS (L) FOR LATERAL SHIFTS (W)			MAXIMUM CHANNELIZER SPACING		BUFFER LENGTH
	10 FT	11 FT	12 FT	THROUGH TAPER	THROUGH WORK AREA	
0-35	205 FT	225 FT	245 FT	35 FT	50 FT	250FT
40-45	450 FT	495 FT	540 FT	40 FT	100 FT	360FT
50-55	550 FT	605 FT	660 FT	50 FT	100 FT	495FT
60-70	700 FT	770 FT	840 FT	60 FT	100 FT	730FT

SIGN SPACING FOR ADVANCE SIGN SERIES SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION. SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.		
SPEED MPH (P)	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200 FT	200 FT
40-45	350 FT	500 FT
50-55	500 FT	1000 FT
60-70	SA-1000 FT, SB-1500 FT, SC-2640 FT	

TAPER LENGTH (L)

L = W x P FOR 40 MPH OR MORE

$L = \frac{WP^2}{60}$ FOR 35 MPH OR LESS

L = TAPER LENGTH IN FEET

W = LATERAL SHIFT IN FEET

P = POSTED SPEED PRIOR TO ROAD WORK IN MPH

LEFT LANE CLOSURE AT INTERSECTION - NOT TO SCALE

TRAFFIC CONTROL
SHEET 4 OF 5

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/14/2014

ROUTE	STATE
US60	MO
DISTRICT	SHEET NO.
SW	14

COUNTY NEWTON/BARRY

JOB NO. J7P2204

CONTRACT ID.

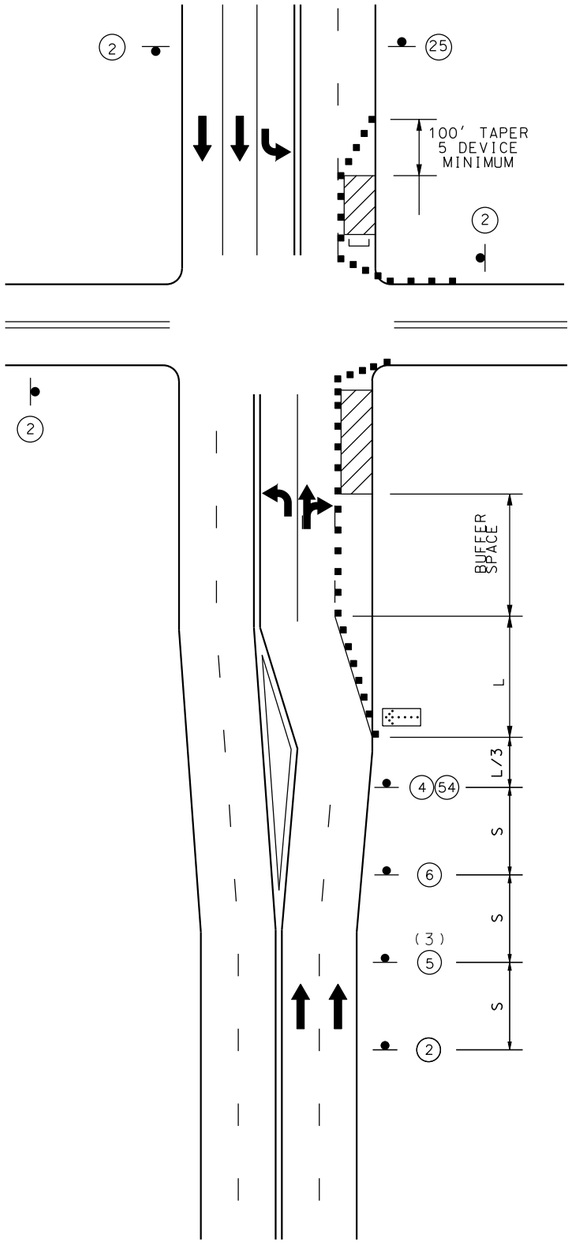
PROJECT NO.

BRIDGE NO.

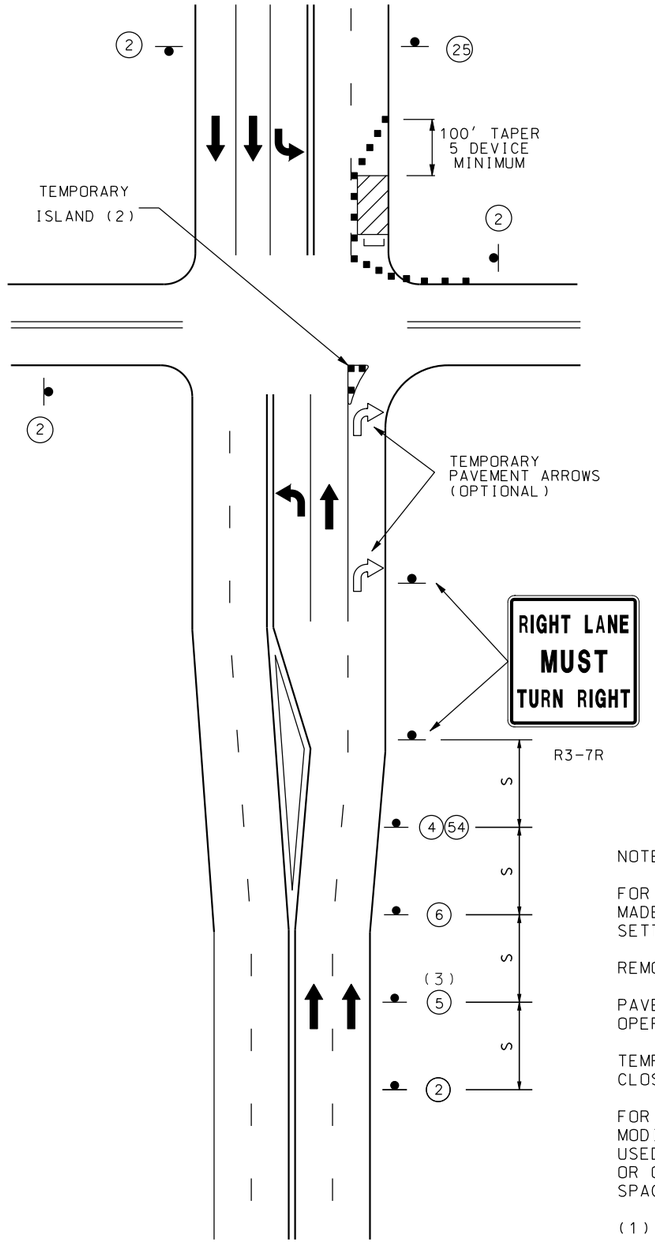
DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



Work On Near Or Far Side



Work On Far Side Only (1)

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES						
SPEED MPH (P)	MINIMUM TAPER LENGTHS (L) FOR LATERAL SHIFTS (W)			MAXIMUM CHANNELIZER SPACING		BUFFER LENGTH
	10 FT	11 FT	12 FT	THROUGH TAPER	THROUGH WORK AREA	
0-35	205 FT	225 FT	245 FT	35 FT	50 FT	250FT
40-45	450 FT	495 FT	540 FT	40 FT	100 FT	360FT
50-55	550 FT	605 FT	660 FT	50 FT	100 FT	495FT
60-70	700 FT	770 FT	840 FT	60 FT	100 FT	730FT

SIGN SPACING FOR ADVANCE SIGN SERIES		
SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION. SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.		
SPEED MPH (P)	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200 FT	200 FT
40-45	350 FT	500 FT
50-55	500 FT	1000 FT
60-70	SA-1000 FT, SB-1500 FT, SC-2640 FT	

TAPER LENGTH (L)

L = W x P FOR 40 MPH OR MORE

$L = \frac{WP^2}{60}$ FOR 35 MPH OR LESS

L = TAPER LENGTH IN FEET

W = LATERAL SHIFT IN FEET

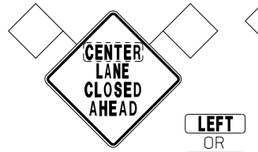
P = POSTED SPEED PRIOR TO ROAD WORK IN MPH



W020-1
2



R2-1
4



W020-5
5



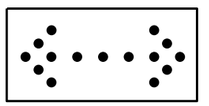
W020-6a
6



(NORMAL SPEED)
R2-1
25



G020-5aP
54



FLASHING
ARROW PANEL



CHANNELIZERS

NOTES:

FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING, TIMING, INDICATIONS OR DETECTOR SETTINGS.

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

FOR SHORT TERM OPERATIONS, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, A 10' [3 m] DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKING. ALL OTHER SPACINGS ARE ONE HALF OF THE SPACING SHOWN IN TABLE.

(1) THIS FIGURE ONLY APPLIES WHERE A SIGNIFICANT PERCENTAGE OF THE APPROACH VOLUME TURNS RIGHT.

(2) TEMPORARY ISLAND MAY BE USED TO EMPHASIZE THE MANDATORY RIGHT TURN MOVEMENT WHERE THERE IS A SUFFICIENT RIGHT TURN RADIUS.

(3) SIGN 5 MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR THE FULL SIGN SERIES.

RIGHT LANE CLOSURE AT INTERSECTION - NOT TO SCALE

TRAFFIC CONTROL
SHEET 5 OF 5

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 7/14/2014

ROUTE	STATE
US60	MO
DISTRICT	SHEET NO.
SW	15

COUNTY
NEWTON/BARRY

JOB NO.
J7P2204

CONTRACT ID.

PROJECT NO.

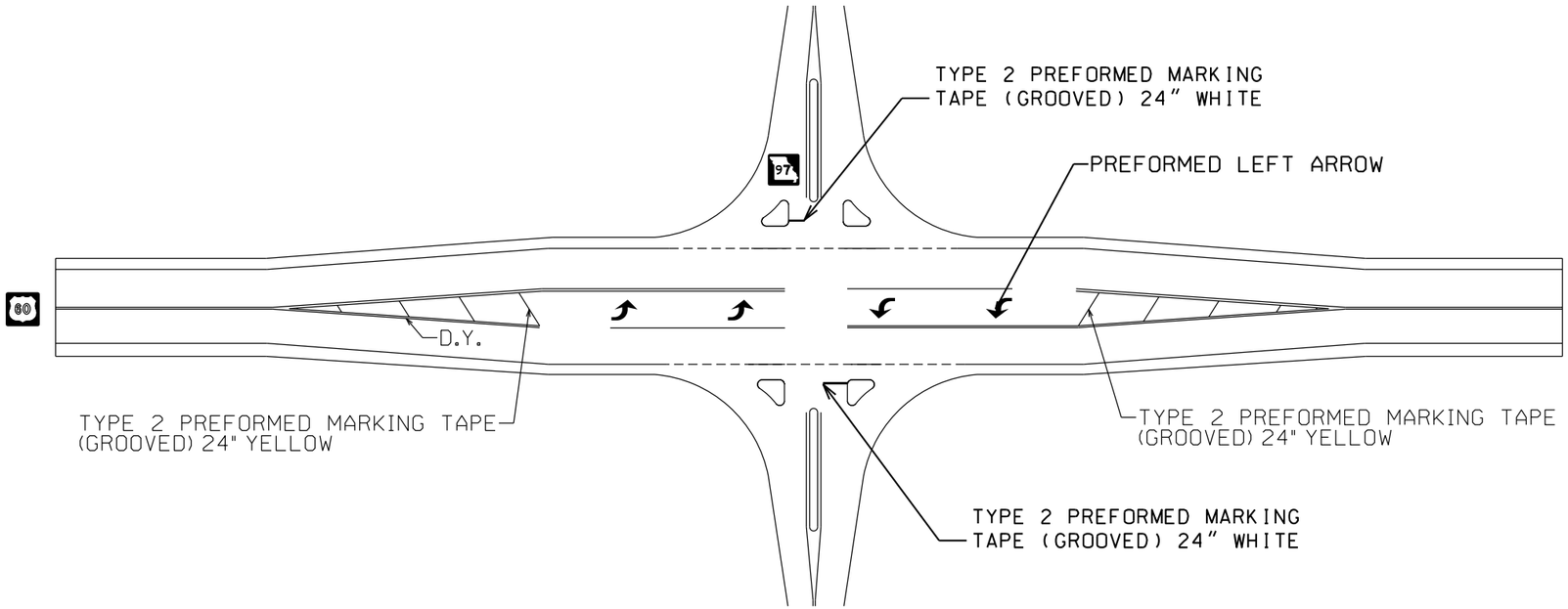
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

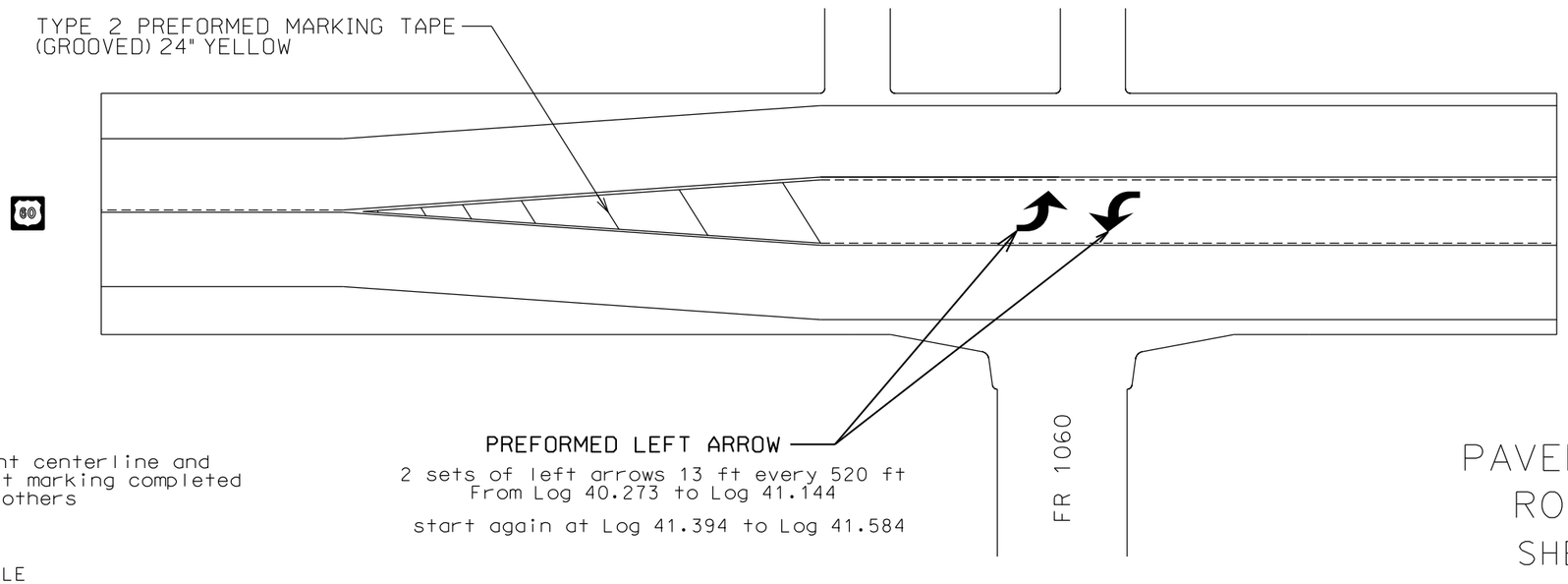
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

HIGHWAY 97 INTERSECTION



DRAWING NOT TO SCALE

FARM ROAD 1060 INTERSECTION



NOTE: permanent centerline and edgeline pavement marking completed by others

DRAWING NOT TO SCALE

PAVEMENT MARKING
ROUTE US 60
SHEET 1 OF 2

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 7/14/2014

ROUTE	STATE
US60	MO
DISTRICT	SHEET NO.
SW	16

COUNTY: NEWTON/BARRY

JOB NO.: J7P2204

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

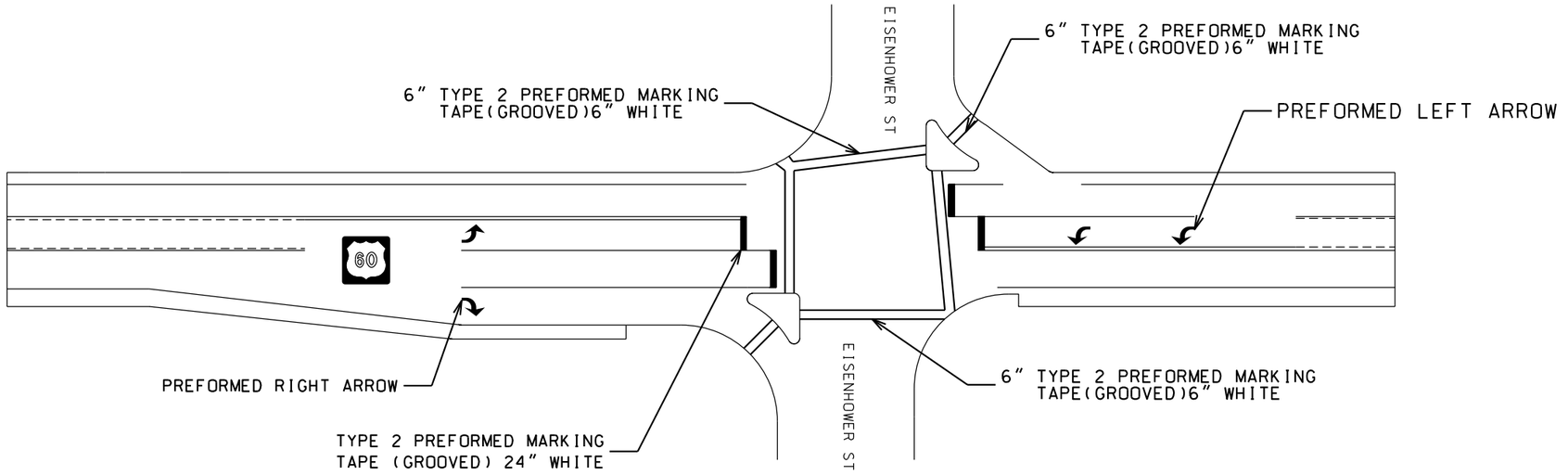
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

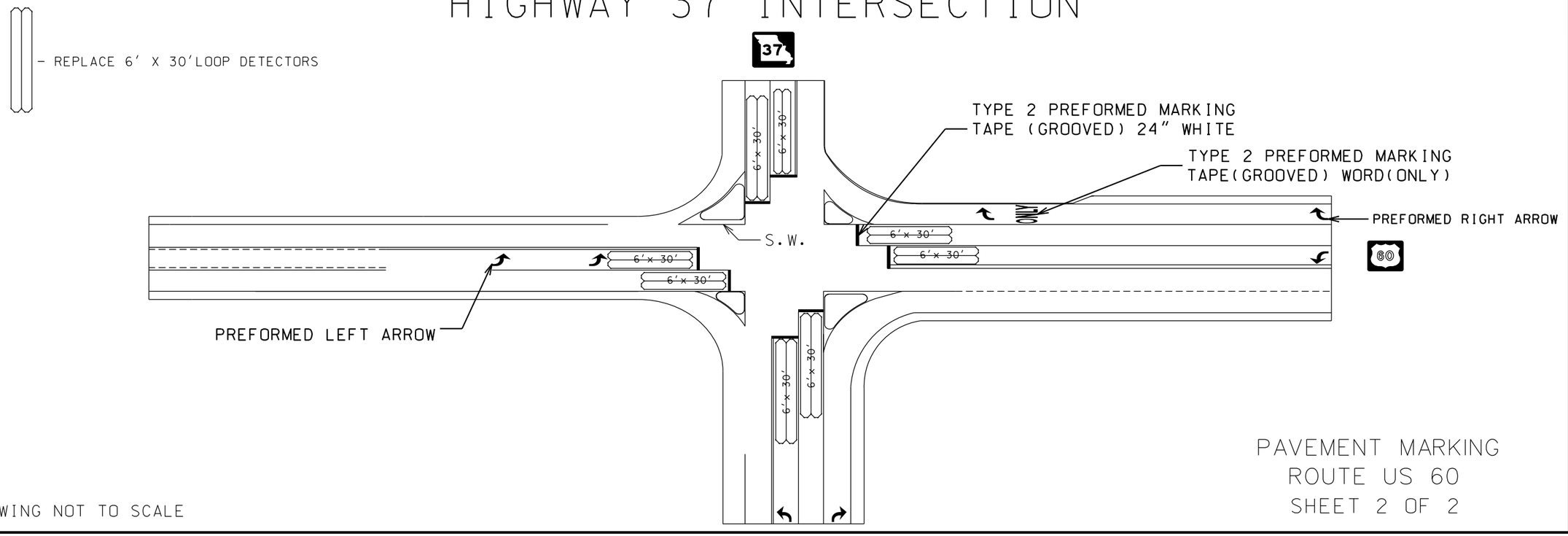
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EISENHOWER INTERSECTION



DRAWING NOT TO SCALE

HIGHWAY 37 INTERSECTION



DRAWING NOT TO SCALE

PAVEMENT MARKING
ROUTE US 60
SHEET 2 OF 2

STATE OF MISSOURI
STACY MARIE REESE
NUMBER PE-2002016721
PROFESSIONAL ENGINEER

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DATE PREPARED	7/14/2014
ROUTE	STATE
US60	MO
DISTRICT	SHEET NO.
SW	17
COUNTY	NEWTON/BARRY
JOB NO.	J7P2204
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

DESIGN DESIGNATION

A.A.D.T. – 2016 = 7,930

V = 55 M.P.H.

FUNCTIONAL CLASSIFICATION– HIGHWAY

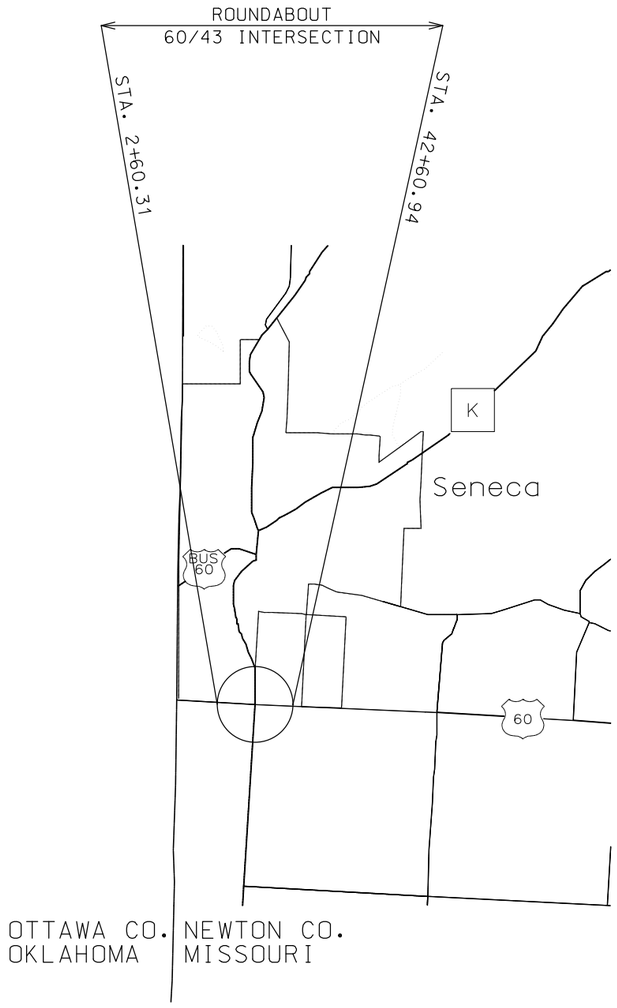
NO NEW RIGHT OF WAY

CONVENTIONAL SYMBOLS
(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	FO	FO
OVERHEAD TELEPHONE		
UNDERGROUND TELEPHONE	T	T
OVERHEAD POWER		
UNDERGROUND POWER	P	P
GAS	G	G
WATER	W	W
MANHOLE	SAN	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
DROP INLET	DI	
DITCH BLOCK		
GROUND MOUNTED SIGN	SIGN	
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL	PED	
FENCE		
CHAIN LINK	V	
WOVEN WIRE	X	
GATE POST		
BENCHMARK	BM	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY
NEWTON COUNTY



NOT TO SCALE

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (3 SHEETS)	2
QUANTITIES (QU) (7 SHEETS)	3
PLAN-PROFILE (PP)	4-12
COORDINATE POINTS (CP)	13
SPECIAL SHEETS (SS)	14-20
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SIGNING (SN)	45-56
PAVEMENT MARKING (PM)	57-65
CULVERT SECTIONS (CS)	66-68
CROSS SECTIONS (XS)	1-34

LENGTH OF PROJECT

BEGINNING OF PROJECT	STA. 2+60.31
END OF PROJECT	STA. 42+60.94
APPARENT LENGTH	4,000.63 FEET
EQUATIONS AND EXCEPTIONS:	
STA 40+86.98 BK = STA 40+85.94 AH	1.04 FEET
TOTAL CORRECTIONS	1.04 FEET
NET LENGTH OF PROJECT	4,001.67 FEET
STATE LENGTH	0.76 MILES

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE PREPARED: 3/9/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	1

COUNTY: NEWTON

JOB NO.: J7P3086

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

ALTERNATE PAVEMENT

US 60 AND ROUNDABOUT

HMA OPTIONS:
1.75" SP125BSM, PG76-22
3.00" SP250B, PG76-22
6.75" SP250C, PG64-22
4" TYPE 5 AGGR. BASE

PCCP OPTIONS:
8.5" JPCP W/15' JOINTS
AND 1.25" DOWELS
4" TYPE 5 AGGR. BASE

OPTIONAL PAVEMENT

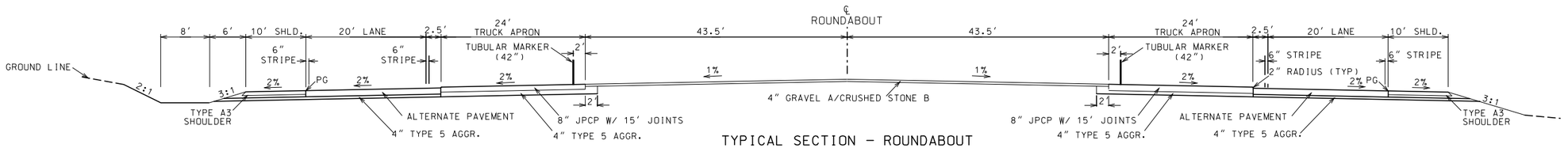
MO 43

1.75" SP125C, PG64-22
8.25" SP250C, PG64-22
4"TYPE 5 AGGR. BASE

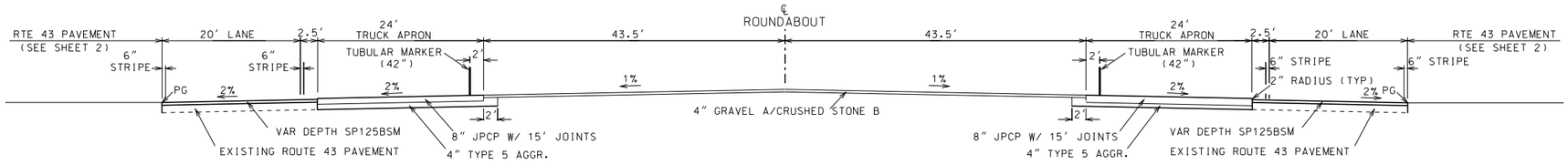
8" JPCP W/15' JOINTS
AND 1.25" DOWELS
4" TYPE 5 AGGR. BASE

ASPHALT FACTORS-RTE 60		
MATERIAL	TONS/C.Y.	% OF A.C.
SP125BSM PG76-22	1.925	6.0%
SP250B PG76-22	1.945	4.9%
SP250C PG64-22	1.945	4.9%

ASPHALT FACTORS-RTE 43		
MATERIAL	TONS/C.Y.	% OF A.C.
SP125C PG64-22	1.950	5.4%
SP250C PG64-22	1.945	4.9%

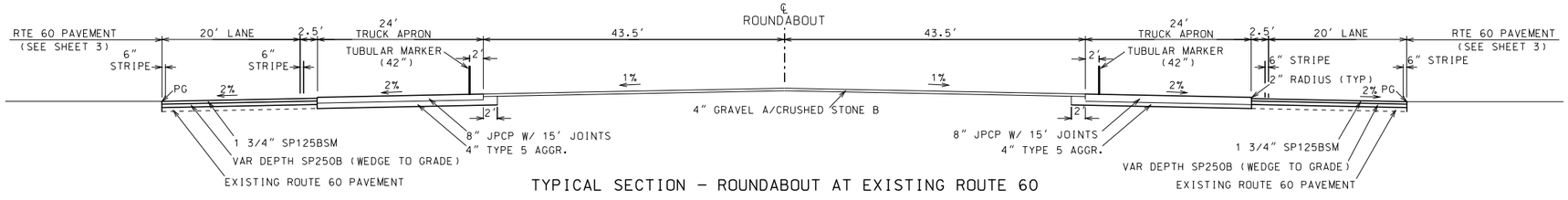


TYPICAL SECTION - ROUNDABOUT
(NEW CONSTRUCTION)



TYPICAL SECTION - ROUNDABOUT AT EXISTING ROUTE 43

RTE 60 STA. 21+72.29 TO STA. 21+94.79
RTE 60 STA. 23+05.79 TO STA. 23+52.29



TYPICAL SECTION - ROUNDABOUT AT EXISTING ROUTE 60

RTE 43 STA. 45+37.75 TO STA. 45+60.25
RTE 43 STA. 46+71.25 TO STA. 47+17.75

TYPICAL SECTIONS
SHEET 1 OF 3

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/9/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	2

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE	REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

ALTERNATE PAVEMENT

US 60 AND ROUNDABOUT

HMA OPTIONS:
1.75" SP125BSM, PG76-22
3.00" SP250B, PG76-22
6.75" SP250C, PG64-22
4" TYPE 5 AGGR. BASE

PCCP OPTIONS:
8.5" JPCP W/15' JOINTS
AND 1.25" DOWELS
4" TYPE 5 AGGR. BASE

ASPHALT FACTORS-RTE 60		
MATERIAL	TONS/C.Y.	% OF A.C.
SP125BSM PG76-22	1.925	6.0%
SP250B PG76-22	1.945	4.9%
SP250C PG64-22	1.945	4.9%

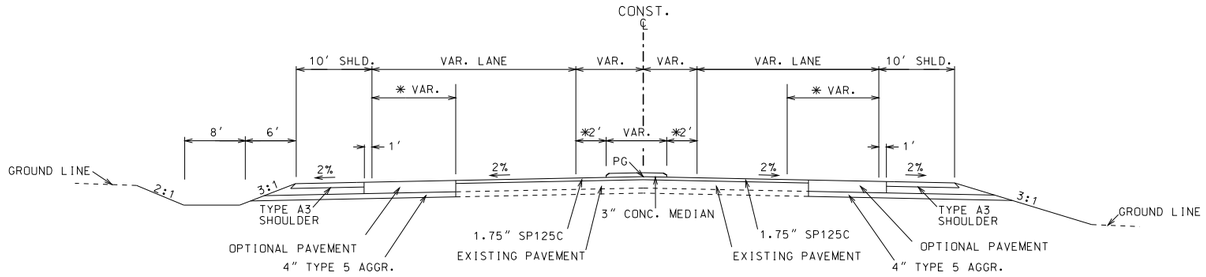
ASPHALT FACTORS-RTE 43		
MATERIAL	TONS/C.Y.	% OF A.C.
SP125C PG64-22	1.950	5.4%
SP250C PG64-22	1.945	4.9%

OPTIONAL PAVEMENT

MO 43

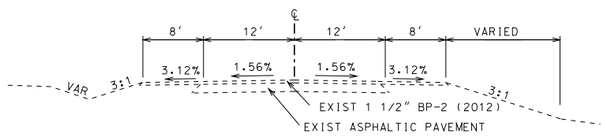
1.75" SP125C, PG64-22
8.25" SP250C, PG64-22
4"TYPE 5 AGGR. BASE

8" JPCP W/15' JOINTS
AND 1.25" DOWELS
4" TYPE 5 AGGR. BASE

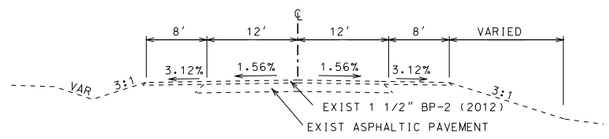


TYPICAL SECTION – ROUTE 43
STA. 41+78.03 TO STA. 45+37.75
STA. 47+17.75 TO STA. 50+77.72

* VARIES FROM 0' AT STA. 41+78.03 TO FULL WIDTH AT STA. 45+37.75.
VARIES FROM FULL WIDTH AT STA. 47+17.75 TO 0' AT STA. 50+77.72.



TYPICAL SECTION – EXISTING ROUTE 43
BEGINNING OF CONST.



TYPICAL SECTION – EXISTING ROUTE 43
END OF CONST.

TYPICAL SECTION – TIE IN–ROUTE 60
BEGINNING AND END OF CONST.

TYPICAL SECTIONS
ROUTE 43
SHEET 2 OF 3

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/9/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	2

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.

ALTERNATE PAVEMENT

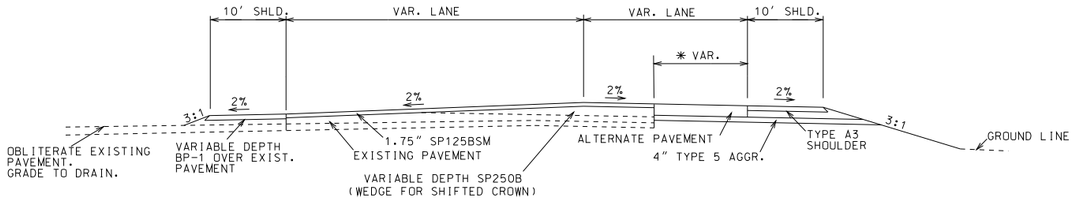
US 60 AND ROUNDABOUT	HMA OPTIONS: 1.75" SP125BSM, PG76-22 3.00" SP250B, PG76-22 6.75" SP250C, PG64-22 4" TYPE 5 AGGR. BASE	PCCP OPTIONS: 8.5" JPCP W/15' JOINTS AND 1.25" DOWELS 4" TYPE 5 AGGR. BASE

OPTIONAL PAVEMENT

MO 43	1.75" SP125C, PG64-22 8.25" SP250C, PG64-22 4"TYPE 5 AGGR. BASE	8" JPCP W/15' JOINTS AND 1.25" DOWELS 4" TYPE 5 AGGR. BASE

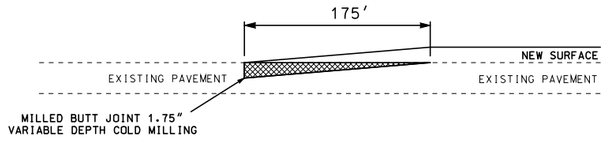
ASPHALT FACTORS-RTE 60		
MATERIAL	TONS/C.Y.	% OF A.C.
SP125BSM PG76-22	1.925	6.0%
SP250B PG76-22	1.945	4.9%
SP250C PG64-22	1.945	4.9%
BP-1 PG64-22	1.980	5.0%

ASPHALT FACTORS-RTE 43		
MATERIAL	TONS/C.Y.	% OF A.C.
SP125C PG64-22	1.950	5.4%
SP250C PG64-22	1.945	4.9%

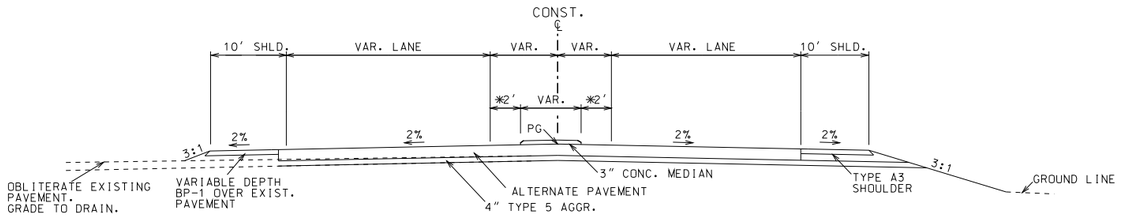


TYPICAL SECTION - ROUTE 60
STA. 4+35.31 TO STA. 18+11.85
STA. 27+10.28 TO STA. 40+86.98

* ALTERNATE PAVEMENT A VARIES FROM 0' AT STA 4+35.31 TO FULL WIDTH AT STA 18+11.85.
ALTERNATE PAVMENT A VARIES FROM FULL WIDTH AT STA 27+10.28 TO 0' AT STA 40+86.98.

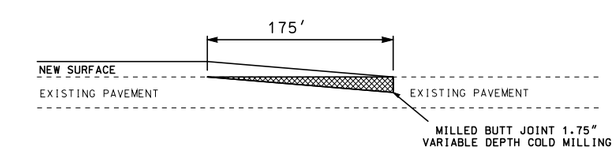


BEGIN PROJECT
STA 2+60.31 TO STA 4+35.31

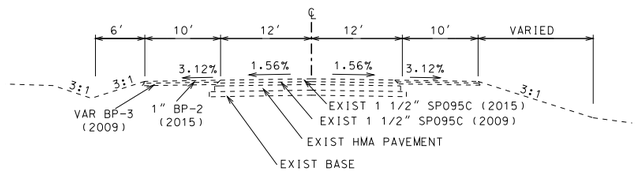


TYPICAL SECTION - ROUTE 60
STA. 18+11.85 TO STA. 21+72.29
STA. 23+52.29 TO STA. 27+10.28

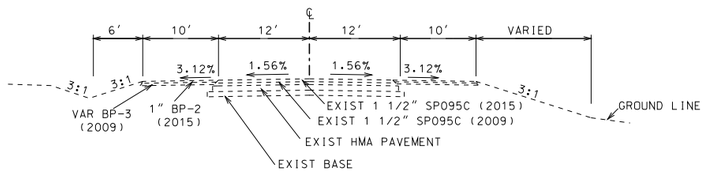
* VARIES FROM 0' AT STA. 18+11.85 TO FULL WIDTH AT STA. 21+72.29.
VARIES FROM FULL WIDTH AT STA. 23+52.29 TO 0' AT STA. 27+10.28.



END PROJECT
STA 40+85.94 TO STA 42+60.94



TYPICAL SECTION - EXISTING ROUTE 60
BEGINNING OF PROJECT



TYPICAL SECTION - EXISTING ROUTE 60
END OF PROJECT

TYPICAL SECTION - TIE IN-ROUTE 60
BEGINNING AND END OF CONST.

TYPICAL SECTIONS
ROUTE 60
SHEET 3 OF 3

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/9/2016
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. 2
COUNTY NEWTON
JOB NO. J7P3086
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

MODIFIED COLDMILLING						
SHEET	ROUTE	STATION	STATION	LOCATION	SY	REMARKS
4	60	2+60.31	4+35.31	BEGIN PROJECT	777.8	
10	60	40+85.94	42+60.94	END PROJECT	777.8	
				SUBTOTAL	1555.6	
				TOTAL	1556	

CONCRETE MEDIANS					
SHEET	STATION	STATION	ALIGNMENT	3" HIGH MEDIAN SY	REMARKS
7	20+37.73	21+51.27	US 60	68.6	
7	23+73.31	24+86.85	US 60	68.6	
7,11	44+02.96	45+16.57	MO 43	68.7	
7,12	47+38.87	48+31.76	MO 43	59.5	
			TOTAL	265.4	

COMPACTING IN CUT					
STATION	TO	STATION	LOCATION	LENGTH (STA)	REMARKS
11+00.00	-	15+25.00	US 60 RT	4.25	
19+50.00	-	23+25.30	US 60 RT	3.75	
27+75.00	-	31+75.00	US 60 RT	4.00	
44+75.00	-	48+00.00	MO 43 RT	3.25	
			SUBTOTAL	7.25	
			TOTAL	7.3	

REMOVAL OF IMPROVEMENTS										
SHEET	ALIGNMENT	STATION	LOCATION	ALIGNMENT	STATION	LOCATION	DESCRIPTION	UNITS	TOTAL	REMARKS
7	PR60	21+95.23	91.16' LT				SPAN WIRE POLE	EACH	1	
7	PR60	23+30.20	33.29' RT				SPAN WIRE POLE	EACH	1	
7	PR60	22+62.54	30.00' LT				SPAN WIRE SIGNAL HEAD	EACH	4	
66	PR60	8+01.72	35.68' RT	PR60	8+02.06	48.04' RT	EXISTING 30" PIPE	LF	12.4	
67	PR60	15+70.52	10.75' RT				EXISTING HEADWALL	EACH	1	
67	PR60	15+70.52	10.75' RT	PR60	15+70.77	11.61' RT	EXISTING 30" PIPE	LF	0.9	
68	PR60	40+48.17	39.61' RT	PR60	40+50.81	47.16' RT	EXISTING 30" PIPE	LF	8.0	
								TOTAL	1 LUMP SUM	

EARTHWORK QUANTITES						
SHEET	STATION	STATION	ALIGNMENT	COMPACTING ENBANKMENT	UNCLASSIFIED EXCAVATION	REMARKS
				CY	CY	
VAR	4+35.31	40+85.95	US 60	6434	10612	
VAR	41+78.00	50+77.72	MO 43	528	3123	
			SUBTOTAL	6962	13735	
			TOTAL	6962	13735	

PAVEMENT EDGE TREATMENT						
SHEET	ROUTE	STATION	STATION	LOCATION	LF	REMARKS
4-10	60	4+35	40+86	LT	3651	
4-10	60	4+35	40+86	RT	3651	
11-12	43	41+78	50+77	LT	899	
11-12	43	41+78	50+77	RT	899	
				SUBTOTAL	9100	
				TOTAL	9100	

LINEAR GRADING- CLASS 1					
SHEET	ROUTE	STATION	STATION	STA.	REMARKS
4-7	60	5+68	21+05	15.4	REMOVAL OF EXIST. ASPHALT BEYOND NEW PVMT.
7-10	60	24+00	40+50	16.5	REMOVAL OF EXIST. ASPHALT BEYOND NEW PVMT.
				TOTAL	31.9	

COLDMILLING 3" OR LESS						
SHEET	ROUTE	STATION	STATION	AVE. WIDTH FT	COLDMILLING SY	REMARKS
11	43	41+78.03	44+36.11	24.6	705.4	NORTH OF RTE. 60
7	43	44+36.11	45+38.50	24.9	283.3	NORTH OF RTE. 60
7	43	46+17.00	48+18.00	22.4	500.3	SOUTH OF RTE. 60
12	43	48+18.00	50+77.72	22.2	640.6	SOUTH OF RTE. 60
				SUBTOTAL	2129.6	
				TOTAL	2130	

TEMPORARY SURFACING		
LOCATION	TEMPORARY SURFACING CU. YD.	REMARKS
VARIOUS LOCATIONS	340	USED FOR STAGING
TOTAL	340	

GRAVEL A OR CRUSHED STONE B		
LOCATION	GRAVEL A STONE B TONS	REMARKS
ROUNDABOUT	106	CENTER
DRIVE ENTRANCES	56	VARIOUS LOCATIONS
TOTAL	162	

CONTRACTOR SURVEY & STAKING
LUMP SUM

MOBILIZATION
LUMP SUM

QUANTITY SHEET
SHEET 1 OF 7

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/9/2016
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY NEWTON
JOB NO. J7P3086
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

PAVEMENT QUANTITIES

SHEET	ALIGNMENT	STATION	OFFSET	ALIGNMENT	STATION	OFFSET	1.75" SP125C TONS	1.75" SP125BSM TONS	VAR SP250B TONS	1.75" BP1 TONS	TACK GAL	OPT. PVMT. M043 SY	OPT. PVMT. US60 SY	4" TYPE 5 AGGR. BASE SY	A3 SHOULDER SY	REMARKS
11,7	EX 43	41+78.03	11.20' RT	EX 43	45+38.59	41.12' RT	44.3				37.4	195.3		606.3	411.0	
11,7	EX 43	41+78.03	13.23' LT	EX 43	45+38.59	52.67' LT	49.4				41.7	255.5		658.7	403.2	
7,12	EX 43	47+17.18	52.27' RT	EX 43	50+77.72	13.05' RT	48.0			0.6	41.0	234.2		627.2	393.0	
7,12	EX 43	47+17.18	41.41' LT	EX 43	50+77.72	8.98' LT	35.6				30.0	295.4		709.0	413.6	
4	PR 60	4+35.31		PR 60	4+50.00			7.8		2.9	4.7		0.4	13.8	13.4	VARIABLE DEPTH BSM AND BP1
4	PR 60	4+50.00		PR 60	5+00.00			26.1		8.6	16.0		5.3	54.3	49.0	VARIABLE DEPTH BSM AND BP1
4	PR 60	5+00.00		PR 60	5+50.00			21.8	4.5	7.4	15.9		11.9	66.1	54.2	VARIABLE DEPTH BSM AND BP1
4	PR 60	5+50.00		PR 60	6+00.00			17.1	13.8	5.0	15.4		20.4	76.0	55.6	VARIABLE DEPTH BSM AND BP1
4	PR 60	6+00.00		PR 60	6+50.00			15.4	18.2	3.7	14.9		27.5	83.1	55.6	VARIABLE DEPTH BSM AND BP1
4	PR 60	6+50.00		PR 60	7+00.00			14.1	18.0	5.2	14.4		34.4	90.0	55.6	VARIABLE DEPTH BSM AND BP1
4	PR 60	7+00.00		PR 60	7+50.00			12.6	18.8	5.2	13.9		41.0	96.6	55.6	VARIABLE DEPTH BSM AND BP1
4	PR 60	7+50.00		PR 60	8+00.00			12.0	19.2	4.8	13.4		46.9	102.5	55.6	VARIABLE DEPTH BSM AND BP1
4	PR 60	8+00.00		PR 60	8+50.00			12.0	21.5	4.8	13.1		52.0	107.6	55.6	VARIABLE DEPTH BSM AND BP1
4	PR 60	8+50.00		PR 60	9+00.00			12.1	28.6	5.7	12.7		57.5	113.1	55.6	VARIABLE DEPTH BSM AND BP1
4, 5	PR 60	9+00.00		PR 60	9+50.00			11.8	27.7	6.4	12.2		63.7	119.3	55.6	VARIABLE DEPTH BSM AND BP1
5	PR 60	9+50.00		PR 60	10+00.00			11.1	21.7	6.2	11.8		69.2	124.8	55.6	VARIABLE DEPTH BSM AND BP1
5	PR 60	10+00.00		PR 60	10+50.00			10.2	20.6	5.6	11.5		74.3	129.9	55.6	VARIABLE DEPTH BSM AND BP1
5	PR 60	10+50.00		PR 60	11+00.00			9.7	21.3	10.4	11.1		79.6	135.2	55.6	VARIABLE DEPTH BSM AND BP1
5	PR 60	11+00.00		PR 60	11+50.00			9.1	23.4	15.2	10.7		85.1	140.7	55.6	VARIABLE DEPTH BP1
5	PR 60	11+50.00		PR 60	12+00.00			7.9	23.8	14.3	10.3		90.8	146.4	55.6	VARIABLE DEPTH BP1
5	PR 60	12+00.00		PR 60	12+50.00			7.0	22.7	13.1	9.9		96.6	152.2	55.6	VARIABLE DEPTH BP1
5	PR 60	12+50.00		PR 60	13+00.00			6.1	21.7	11.8	9.5		102.6	158.2	55.6	VARIABLE DEPTH BP1
5	PR 60	13+00.00		PR 60	13+50.00			5.4	20.6	10.9	9.0		108.6	164.2	55.6	VARIABLE DEPTH BP1
5	PR 60	13+50.00		PR 60	14+00.00			4.9	18.3	10.5	8.6		113.9	169.5	55.6	VARIABLE DEPTH BP1
5,6	PR 60	14+00.00		PR 60	14+50.00			4.5	17.0	10.6	8.5		120.1	175.7	55.6	VARIABLE DEPTH BP1
6	PR 60	14+50.00		PR 60	15+00.00			4.0	15.3	10.5	7.8		126.3	181.9	55.6	VARIABLE DEPTH BP1
6	PR 60	15+00.00		PR 60	15+50.00			3.5	13.9	10.5	7.4		132.0	187.6	55.6	VARIABLE DEPTH BP1
6	PR 60	15+50.00		PR 60	16+00.00			2.7	10.9	11.0	6.7		141.3	196.9	55.6	VARIABLE DEPTH BP1
6	PR 60	16+00.00		PR 60	16+50.00			1.8	7.6	12.3	5.9		151.4	207.0	55.6	VARIABLE DEPTH BP1
6	PR 60	16+50.00		PR 60	17+00.00			1.2	5.4	13.8	5.5		158.3	213.9	55.6	VARIABLE DEPTH BP1
6	PR 60	17+00.00		PR 60	17+50.00			0.7	3.4	14.6	5.0		164.3	219.9	55.6	VARIABLE DEPTH BP1
6	PR 60	17+50.00		PR 60	18+00.00			0.2	1.6	14.9	4.6		170.1	225.7	55.6	VARIABLE DEPTH BP1
6	PR 60	18+00.00		PR 60	18+50.00			0.0	3.2	16.4	4.2		172.7	228.3	55.6	VARIABLE DEPTH BP1
6	PR 60	18+50.00		PR 60	19+00.00			0.0	0.0	18.6	3.8		173.3	228.9	55.6	VARIABLE DEPTH BP1
6	PR 60	19+00.00		PR 60	19+50.00			0.0	0.0	21.5	3.4		174.1	230.2	56.1	VARIABLE DEPTH BP1
6,7	PR 60	19+50.00		PR 60	20+00.00			0.0	0.0	22.8	3.4		180.2	235.8	55.6	VARIABLE DEPTH BP1
7	PR 60	20+00.00		PR 60	20+50.00			0.0	0.0	20.9	3.6		186.8	242.4	55.6	VARIABLE DEPTH BP1
7	PR 60	20+50.00		PR 60	21+00.00			1.4	4.6	14.7	5.0		187.0	242.7	55.7	VARIABLE DEPTH BP1
7	PR 60	21+00.00		PR 60	21+50.00			10.3	10.1	13.0	9.9		198.0	255.9	57.9	VARIABLE DEPTH BP1
7	PR 60	21+50.00		PR 60	22+50.97			39.2	20.8	0.7	2.9		267.3	267.3	0.0	
7	VAR	21+50.00		VAR	45+38.59			0.0	0.0	0.0	0.0		0.0	86.6	86.6	SHOULDER FROM 60 TO 43
7	VAR	21+50.00		VAR	47+17.18			0.0	0.0	0.0	0.0		0.0	88.1	88.1	SHOULDER FROM 60 TO 43
7	PR 60	21+72.29		PR 60	23+52.29			29.4	101.1	0.0	20.7		977.6	977.6	0.0	ROUNDABOUT
7	VAR	45+38.59		VAR	23+50.00			0.0	0.0	0.0	0.0		0.0	53.0	53.0	SHOULDER FROM 43 TO 60
7	VAR	47+17.18		VAR	23+50.00			0.0	0.0	0.0	0.0		0.0	56.6	56.6	SHOULDER FROM 43 TO 60
7	PR 60	22+71.69		PR 60	23+50.00			4.4	2.5	0.3	0.8		124.6	124.6	0.0	VARIABLE DEPTH BSM AND BP1
7	PR 60	23+50.00		PR 60	24+00.00			9.5	5.4	12.1	8.2		308.3	379.9	71.6	VARIABLE DEPTH BSM AND BP1
7	PR 60	24+00.00		PR 60	24+50.00			0.0	0.0	20.0	3.0		214.8	291.1	76.3	VARIABLE DEPTH BP1
7,8	PR 60	24+50.00		PR 60	25+00.00			0.0	0.0	18.8	4.1		156.6	217.2	60.6	VARIABLE DEPTH BP1
8	PR 60	25+00.00		PR 60	25+50.00			0.0	0.0	18.7	3.9		183.2	244.9	61.7	VARIABLE DEPTH BP1
8	PR 60	25+50.00		PR 60	26+00.00			0.0	0.0	19.2	3.6		176.1	242.1	66.0	VARIABLE DEPTH BP1
8	PR 60	26+00.00		PR 60	26+50.00			0.0	0.0	16.8	3.8		173.6	236.7	63.1	VARIABLE DEPTH BP1
8	PR 60	26+50.00		PR 60	27+00.00			0.0	0.0	14.8	4.2		173.0	231.3	58.3	VARIABLE DEPTH BP1
8	PR 60	27+00.00		PR 60	27+50.00			0.2	1.0	13.7	4.6		170.4	226.0	55.6	VARIABLE DEPTH BP1
8	PR 60	27+50.00		PR 60	28+00.00			0.7	2.6	12.7	4.9		164.9	220.5	55.6	VARIABLE DEPTH BSM AND BP1
						SUBTOTAL 1	177.3	347.9	590.8	532.2	538.5	980.4	6708.0	12061.0	4372.6	

QUANTITY SHEET
SHEET 2 OF 7

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
4/4/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	3

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

TRUCK APRON PAVEMENT									
SHEET	ALIGNMENT	STATION	OFFSET	ALIGNMENT	STATION	OFFSET	8" CONCRETE PAVEMENT	4" TYPE 5 AGGR. BASE	REMARKS
							SY	SY	
7	PR 60	21+94.79	0.00' LT	PR60	23+05.79	0.00' LT	929.9	989.2	
						SUBTOTAL 3		989.2	
						TOTAL	929.9		

PAVEMENT QUANTITIES															
SHEET	ALIGNMENT	STATION	OFFSET	ALIGNMENT	STATION	OFFSET	1.75" SP125C	1.75" SP125BSM	VAR SP250B	1.75" BP1	TACK	OPT. PVMT. M043	OPT. PVMT. US60	4" TYPE 5 AGGR. BASE	A3 SHOULDER	REMARKS
							TONS	TONS	TONS	TONS	GAL	SY	SY	SY	SY	
8	PR 60	28+00.00		PR 60	28+50.00			1.1	4.1	12.3	5.4		159.3	214.9	55.6	VARIABLE DEPTH BSM AND BP1
8	PR 60	28+50.00		PR 60	29+00.00			1.6	5.8	12.0	5.8		153.5	209.1	55.6	VARIABLE DEPTH BSM AND BP1
8	PR 60	29+00.00		PR 60	29+50.00			2.1	7.6	11.4	6.2		147.7	203.3	55.6	VARIABLE DEPTH BSM AND BP1
8	PR 60	29+50.00		PR 60	30+00.00			2.8	9.7	10.5	6.7		140.5	196.1	55.6	VARIABLE DEPTH BSM AND BP1
8	PR 60	30+00.00		PR 60	30+50.00			3.6	12.7	9.6	7.5		130.2	185.8	55.6	VARIABLE DEPTH BSM AND BP1
8	PR 60	30+50.00		PR 60	31+00.00			4.3	15.0	9.5	8.1		122.8	178.4	55.6	VARIABLE DEPTH BSM AND BP1
8.9	PR 60	31+00.00		PR 60	31+50.00			4.7	15.6	10.1	8.4		117.4	173.0	55.6	VARIABLE DEPTH BSM AND BP1
9	PR 60	31+50.00		PR 60	32+00.00			5.4	17.8	10.4	8.9		111.3	166.9	55.6	VARIABLE DEPTH BSM AND BP1
9	PR 60	32+00.00		PR 60	32+50.00			6.2	21.2	11.1	9.4		104.1	159.7	55.6	VARIABLE DEPTH BSM AND BP1
9	PR 60	32+50.00		PR 60	33+00.00			6.8	23.2	12.5	9.8		98.8	154.4	55.6	VARIABLE DEPTH BSM AND BP1
9	PR 60	33+00.00		PR 60	33+50.00			7.7	24.5	13.7	10.2		92.4	148.0	55.6	VARIABLE DEPTH BSM AND BP1
9	PR 60	33+50.00		PR 60	34+00.00			9.0	23.5	10.7	10.8		85.4	141.0	55.6	VARIABLE DEPTH BSM AND BP1
9	PR 60	34+00.00		PR 60	34+50.00			10.1	23.1	8.4	11.2		79.2	134.8	55.6	VARIABLE DEPTH BSM AND BP1
9	PR 60	34+50.00		PR 60	35+00.00			11.0	24.9	10.1	11.6		73.9	129.5	55.6	VARIABLE DEPTH BSM AND BP1
9	PR 60	35+00.00		PR 60	35+50.00			12.0	26.3	11.1	12.0		68.5	124.1	55.6	VARIABLE DEPTH BSM AND BP1
9	PR 60	35+50.00		PR 60	36+00.00			13.3	27.6	11.8	12.4		62.2	117.6	55.4	VARIABLE DEPTH BSM AND BP1
9	PR 60	36+00.00		PR 60	36+50.00			14.4	28.3	12.4	12.9		56.0	111.6	55.6	VARIABLE DEPTH BSM AND BP1
9.10	PR 60	36+50.00		PR 60	37+00.00			13.9	19.9	8.7	13.3		49.9	105.4	55.5	VARIABLE DEPTH BSM AND BP1
10	PR 60	37+00.00		PR 60	37+50.00			13.6	11.7	5.6	13.7		44.2	99.7	55.5	VARIABLE DEPTH BSM AND BP1
10	PR 60	37+50.00		PR 60	38+00.00			14.2	11.1	6.1	14.1		38.8	94.3	55.5	VARIABLE DEPTH BSM AND BP1
10	PR 60	38+00.00		PR 60	38+50.00			14.7	9.7	6.1	14.5		33.4	88.9	55.5	VARIABLE DEPTH BSM AND BP1
10	PR 60	38+50.00		PR 60	39+00.00			17.8	4.6	6.8	14.9		28.1	83.6	55.5	VARIABLE DEPTH BSM AND BP1
10	PR 60	39+00.00		PR 60	39+50.00			20.1	0.0	7.8	15.2		22.9	78.4	55.5	VARIABLE DEPTH BSM AND BP1
10	PR 60	39+50.00		PR 60	40+00.00			19.3	0.0	7.9	15.9		16.3	71.7	55.4	VARIABLE DEPTH BSM AND BP1
10	PR 60	40+00.00		PR 60	40+50.00			19.5	0.0	7.8	15.9		9.1	60.5	51.4	VARIABLE DEPTH BSM AND BP1
10	PR 60	40+50.00		PR 60	40+86.98			15.1	0.0	6.3	11.8		2.0	36.5	34.5	VARIABLE DEPTH BSM AND BP1
						SUBTOTAL 1	177.3	347.9	590.8	532.2	538.5	980.4	6708.0	12061.0	4372.6	
						SUBTOTAL 2	0.0	264.3	367.9	250.7	286.6	0.0	2047.9	3467.2	1419.3	
						SUBTOTAL 3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	989.2	0.0	
						TOTAL	177.3	612.2	958.7	782.9	830	980.4	8755.9	16517	5791.9	

QUANTITY SHEET
SHEET 3 OF 7

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/4/2016
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY NEWTON
JOB NO. J7P3086
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

TEMPORARY EROSION CONTROL

SHEET	ALIGNMENT	STATION	OFFSET	ALIGNMENT	STATION	OFFSET	SILT FENCE	ROCK DITCH CHECK	SEDIMENT REMOVAL	REMARKS
							LF	LF	CY	
34	PR60	4+35.43	RT					20.0	2.0	
34	PR60	4+93.66	RT					20.0	2.0	
34	PR60	5+53.87	RT					20.0	2.0	
34	PR60	6+13.84	RT					20.0	2.0	
34	PR60	6+72.67	RT					20.0	2.0	
34	PR60	7+26.96	RT					20.0	2.0	
34	PR60	7+59.73	RT					20.0	2.0	
34	PR60	7+96.20	RT					20.0	2.0	
34	PR60	7+98.87	LT					20.0	2.0	
34	PR60	8+08.09	RT					20.0	2.0	
34	PR60	8+38.69	RT					20.0	2.0	
35	PR60	8+73.39	RT					20.0	2.0	
35	PR60	9+16.42	RT					20.0	2.0	
35	PR60	9+59.86	RT					20.0	2.0	
35	PR60	10+07.39	RT					20.0	2.0	
35	PR60	10+58.29	RT					20.0	2.0	
35	PR60	11+02.81	RT					20.0	2.0	
35	PR60	11+56.50	RT					20.0	2.0	
35	PR60	11+98.26	RT					20.0	2.0	
35	PR60	12+41.88	RT					20.0	2.0	
35	PR60	12+90.16	RT					20.0	2.0	
35	PR60	13+39.82	RT					20.0	2.0	
35	PR60	13+87.65	RT					20.0	2.0	
36	PR60	14+43.82	RT					20.0	2.0	
36	PR60	14+97.26	RT					20.0	2.0	
36	PR60	15+49.75	RT					20.0	2.0	
36	PR60	15+88.04	RT	PR60	19+47.92	RT	362.1		3.7	
36	PR60	19+50.09	RT					20.0	2.0	
37	PR60	20+34.92	RT					20.0	2.0	
37	PR60	21+46.96	RT					20.0	2.0	
37	EX43	47+58.12	RT					20.0	2.0	
37	EX43	47+53.79	LT					20.0	2.0	
37	PR60	23+55.11	RT					20.0	2.0	
37	PR60	23+60.18	RT	PR60	25+22.68	RT	172.3		1.8	
37	PR60	25+20.50	RT					20.0	2.0	
37	PR60	21+46.73	LT					20.0	2.0	
37	PR60	22+07.31	LT					20.0	2.0	
37	EX43	44+67.89	RT					20.0	2.0	
37	EX43	44+64.80	LT					20.0	2.0	
37	PR60	23+29.24	LT					20.0	2.0	
37	PR60	23+56.37	LT					20.0	2.0	
38	PR60	25+98.31	RT					20.0	2.0	
38	PR60	26+71.70	RT					20.0	2.0	
38	PR60	27+72.38	RT					20.0	2.0	
38	PR60	28+68.17	RT					20.0	2.0	
38	PR60	29+46.89	RT					20.0	2.0	
38	PR60	30+20.24	RT					20.0	2.0	
39	PR60	31+28.75	RT					20.0	2.0	
39	PR60	32+28.54	RT					20.0	2.0	
39	PR60	32+26.56	RT	PR60	34+26.53	RT	202.5		2.1	
39	PR60	34+23.73	RT					20.0	2.0	
39	PR60	34+98.92	RT					20.0	2.0	
39	PR60	35+71.50	RT					20.0	2.0	
39	PR60	36+28.37	RT					20.0	2.0	
40	PR60	37+25.06	RT					20.0	2.0	
40	PR60	38+16.81	RT					20.0	2.0	
40	PR60	38+98.44	RT					20.0	2.0	
40	PR60	38+98.23	RT	PR60	40+49.45	RT	152.7		1.6	
40	PR60	40+63.73	RT	PR60	40+85.94	RT	25.7		0.3	
						SUBTOTAL 1	915.3	1080.0	117.5	

TRANSVERSE RUMBLE STRIP

SHEET	STATION	STATION	ROUTE	TRANS RUMBLE FT	REMARKS
6	16+31	16+55	60	24	EASTBOUND 60
6	19+01	19+25	60	24	EASTBOUND 60
8	25+99	26+23	60	24	WESTBOUND 60
8	28+68	28+92	60	24	WESTBOUND 60
			TOTAL	96	

RUMBLE STRIP

SHEET	STATION	STATION	ROUTE	EDGELINE RUMBLE STA	CENTERLINE RUMBLE STA	REMARKS
4-6	2+60.31	18+12	60	31.0	15.5	WEST OF 43
6-7	18+12	20+38	60	4.5	4.5	WEST OF 43
7-8	24+87	27+12	60	4.5	4.5	EAST OF 43
7-10	27+12	42+60.94	60	31.0	15.5	EAST OF 43
			TOTAL	71	40	

TEMPORARY EROSION CONTROL (CONTINUED)

SHEET	ALIGNMENT	STATION	OFFSET	ALIGNMENT	STATION	OFFSET	SILT FENCE	ROCK DITCH CHECK	SEDIMENT REMOVAL	REMARKS
							LF	LF	CY	
41	EX43	41+78.12	RT					10.0	1.0	
41	EX43	43+03.49	RT					20.0	2.0	
41	EX43	43+62.13	RT					20.0	2.0	
41	EX43	44+15.65	RT					20.0	2.0	
41	EX43	41+79.26	LT					10.0	1.0	
41	EX43	42+78.14	LT					20.0	2.0	
41	EX43	43+47.82	LT					20.0	2.0	
41	EX43	44+15.60	LT					20.0	2.0	
42	EX43	48+32.81	RT					20.0	2.0	
42	EX43	48+79.03	RT					20.0	2.0	
42	EX43	49+21.43	RT					20.0	2.0	
42	EX43	49+70.24	RT					20.0	2.0	
42	EX43	50+26.30	RT					20.0	2.0	
42	EX43	50+74.50	RT					20.0	2.0	
42	EX43	48+26.38	LT					20.0	2.0	
42	EX43	48+78.43	LT					20.0	2.0	
42	EX43	49+21.45	LT					20.0	2.0	
42	EX43	49+68.34	LT					20.0	2.0	
42	EX43	50+27.73	LT					20.0	2.0	
42	EX43	50+30.34	LT	EX43	50+80.72	LT	51.3		0.6	
						SUBTOTAL 2	51.3	360.0	36.6	
						SUBTOTAL 1	915.3	1080.0	117.5	
						TOTAL	967	1440	155	

QUANTITY SHEET
SHEET 4 OF 7

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/9/2016
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY NEWTON
JOB NO. J7P3086
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

CABLE-CONDUIT, 1", 2 CONDUCTORS & 1 BARE NEUTRAL

FROM	TO	CENTER TO CENTER LF	CABLE CONDUIT #8 AWG LF	TYPE 1 TRENCHING LF	REMARKS
CTR	PB1	56	268	0	FOUR RUNS IN CONDUIT
PB1	L1	147	160	153	CIRCUIT 2A
PB1	PB2	87	93	0	ONE RUN IN CONDUIT
PB2	L2	39	47	40	CIRCUIT 1
L2	L3	229	246	240	CIRCUIT 1
PB1	L4	84	94	0	CIRCUIT 2 (IN SAME TRENCH FROM PB1 TO PB3)
PB1	PB3	113	249	117	CIRCUITS 3 & 4 (CIRCUIT 2 DROPS AT L4)
PB3	PB4	96	204	0	TWO RUNS IN CONDUIT
PB4	L6	158	172	165	CIRCUIT 3
PB4	L5	16	23	0	CIRCUIT 3 (IN SAME TRENCH FROM PB4 TO PB5)
PB4	PB5	124	136	128	CIRCUIT 4 (CIRCUIT 3 DROPS AT L5)
PB5	PB6	79	85	0	ONE RUN IN CONDUIT
PB6	L7	93	104	97	CIRCUIT 4
PB6	L8	115	127	120	CIRCUIT 4
	TOTAL	2009	1059		

LUMINAIRE POLE AND EQUIPMENT

POLE NUMBER	ROUTE	STATION	OFFSET	POLE FOUNDATION 45 FT EACH	POLE, 45 FT TYPE AT DESIGN 3 EACH	BRACKET ARM 15 FT EACH	LUMINAIRE 250W HPS EACH	CABLE, #10 AWG 1C POLE AND BRACKET FT	REMARKS
L1	43	43+53	32.71' RT	1	1	1	1	122	
L2	60	23+33	91.11' LT	1	1	1	1	122	
L3	60	25+37	32.44' LT	1	1	1	1	122	
L4	60	21+71	69.80' LT	1	1	1	1	122	
L5	60	21+57	48.69' RT	1	1	1	1	122	
L6	60	19+88	32.44' RT	1	1	1	1	122	
L7	60	23+54	69.90' RT	1	1	1	1	122	
L8	43	48+81	34.06' LT	1	1	1	1	122	
			SUBTOTAL	8	8	8	8	976	
			TOTAL	8	8	8	8	980	

PULLBOX, PREFORMED CLASS 1

NUMBER	ROUTE	STATION	OFFSET	PULLBOX CLASS 1 EACH	TYPE 1 DRAIN EACH	REMARKS
PB1	43	45+00	35.65' RT	1	1	
PB2	43	45+01	51.32' LT	1	1	
PB3	60	21+45	55.98' LT	1	1	
PB4	60	21+44	40.23' RT	1	1	
PB5	43	47+67	46.26' RT	1	1	
PB6	43	47+66	33.17' LT	1	1	
			SUBTOTAL	6	6	
			TOTAL	6	**	** NO DIRECT PAY

CABLE, #2 AWG, 1 CONDUCTOR

FROM	TO	CENTER TO CENTER FT	#2 AWG, 1C POWER CABLE FT	REMARKS
TRANSFORMER	POWER SUPPLY	10	78	3 RUNS
POWER SUPPLY	CONTROLLER	10	78	3 RUNS
		SUBTOTAL	156	
		TOTAL	160	

240 VOLT BASE MOUNTED CONTROL STATION

ROUTE	STATION	OFFSET	EACH	BREAKER (AMPS) CIRCUIT MAIN	1	2	3	4
43	44+71.7	83.46' RT	1	100	15	15	15	15
		TOTAL	1					

POWER SUPPLY

ROUTE	STATION	OFFSET	TYPE 2 EACH
43	44+64.5	77.0' RT	1
		TOTAL	1

RIGID CONDUIT

FROM	TO	CENTER TO CENTER LT	2" TRENCHED LF	3" TRENCHED LF	3" PUSHED LF	REMARKS
TRANS	PS	10	18			
PS	CONT	10	18			
CONT	PB1	56		59		ALL 4 CIRCUITS
PB1	BP2	87			85	CIRCUIT 1
PB3	PB4	96			94	CIRCUITS 3 & 4
PB5	PB6	79			77	CIRCUIT 4
		TOTAL	36	59	256	

SEED & MULCHING

2 ACRES

TEMPORARY SEED & MULCH

.5 ACRES

ADDITIONAL MOBILIZATION FOR SEEDING

3 EACH

WATER POLUTION CONTROL MANAGER

42 WEEKS

DRAINAGE

SHEET	ALIGNMENT	STATION	OFFSET	ALIGNMENT	STATION	OFFSET	30" GROUP A PIPE LF	30" GROUP A FES EACH	18" GROUP B PIPE LF	18" GROUP B FES EACH	CLASS 3 EXCAVATION CY	ROCK LINING FOR CULVERT OUTLETS CY	REMARKS
4, 66	PR60	8+01.72	35.68' RT	PR60	8+02.08	48.67' RT	8.68	1			12.0		1 - 2° BEND REQUIRED
6, 67	PR60	15+70.52	10.75' RT	PR60	15+80.22	44.54' RT	30.82	1			12.0	4	
10, 68	PR60	40+48.17	39.61' RT	PR60	40+53.99	56.26' RT	13.30	1			10.0	4	
4	PR60	6+75.00	34.00' RT	PR60	7+25.00	35.70' RT			45.69	2	26.5		
9	PR60	35+75.00	37.50' RT	PR60	36+25.00	37.00' RT			45.67	2	26.5		
11	EX43	42+25.00	35.10' RT	EX43	43+00.00	37.20' RT			70.69	2	41.0		
11	EX43	42+38.95	32.95' LT	EX43	42+75.00	37.20' LT			31.97	2	18.6		
12	EX43	48+35.63	40.32' LT	EX43	48+75.00	40.40' LT			35.03	2	20.3		
12	EX43	48+38.01	38.63' RT	EX43	48+75.00	37.00' RT			32.69	2	19.0		
						SUBTOTAL	52.80	3	261.74	12	185.9	8	
						TOTAL	53	3	262	12	186	8	

QUANTITY SHEET
SHEET 5 OF 7

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 4/6/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	3

COUNTY: NEWTON
JOB NO.: J7P3086
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

PAVEMENT MARKING													
STATION	STATION	SHEET	ALIGNMENT	OFFSET	HIGH BUILD ACRYLIC WATERBOURNE PAINT (TYPE L BEADS)				TYPE 1 PREFORM MARKING TAPE (*)		42" YELLOW TUBULAR MARKER	REMARKS
					6" SOLID WHITE	6" DOT WHITE	4" SOLID YELLOW	4" DOUBLE SOLID YELLOW	24" SOLID YELLOW	24" WHITE TRIANGLE		
					LF	LF	LF	LF	LF	EA	EA	
2+60.31	8+64.00	PM1	60	LT	604							
2+60.31	8+64.00	PM1	60	RT	604							
2+60.31	8+64.00	PM1	60	℄				1208				
8+64.00	14+23.00	PM2	60	LT	559							
8+64.00	14+23.00	PM2	60	RT	559							
8+64.00	14+23.00	PM2	60	℄				1118				
14+23.00	18+12.00	PM3	60	LT	387							
14+23.00	18+12.00	PM3	60	RT	387							
14+23.00	18+12.00	PM3	60	℄				774				
18+12.00	19+82.00	PM3	60	LT	171							
18+12.00	19+82.00	PM3	60	RT	171							
18+12.00	19+82.00	PM3	60	℄				684	19			INCLUDES HASH ON MATCH LINE
19+82.00	44+36.11	PM4	VARIES	LT	369							NORTHWEST EDGE LINE
19+82.00	48+18.00	PM4	VARIES	RT	366							SOUTHWEST EDGE LINE
19+82.00	20+38.00	PM4	60	℄				224	11			
20+38.00	21+77.00	PM4	60	℄	48	24	560		76	10	4	INCLUDES PAINT ON ISLAND
21+92.00	23+32.00	PM4	60	℄			440				36	CENTER OF ROUNDABOUT
41+78.00	44+03.00	PM11	43	LT	225							
41+78.00	44+03.00	PM11	43	RT	225							
41+78.00	44+03.00	PM11	43	℄				900	29			
44+03.00	44+36.11	PM11	43	LT	33							NORTH LEG
44+03.00	44+36.11	PM11	43	RT	34							NORTH LEG
43+03.00	44+36.11	PM11	43	℄			135				1	INCLUDES PART ISLAND
44+36.11	45+42.00	PM4	43	℄	52	24	421		74	9	3	INCLUDES PART ISLAND
47+13.00	48+18.00	PM4	43	℄	52	24	416		74	10	3	INCLUDES PART ISLAND
48+18.00	48+32.00	PM9	43	LT	14							
48+18.00	48+32.00	PM9	43	RT	14							
48+18.00	48+32.00	PM9	43	℄			58				1	INCLUDES PART ISLAND
48+32.00	50+78.00	PM9	43	LT	246							SOUTH LEG
48+32.00	50+78.00	PM9	43	RT	246							SOUTH LEG
48+32.00	50+78.00	PM9	43	℄				984	32			SOUTH LEG
44+36.11	25+41.00	PM4	VARIES	LT	365							NORTHEAST EDGE LINE
48+18.00	25+41.00	PM4	VARIES	RT	365							SOUTHEAST EDGE LINE
23+48.00	24+87.00	PM4	60	℄	52	24	556		74	10	4	
24+87.00	25+41.00	PM4	60	℄				216	11			
25+41.00	27+12.00	PM5	60	LT	171							
25+41.00	27+12.00	PM5	60	RT	171							
25+41.00	27+12.00	PM5	60	℄				684	17			
27+12.00	31+00.00	PM5	60	LT	388							
27+12.00	31+00.00	PM5	60	RT	388							
27+12.00	31+00.00	PM5	60	℄				776				
31+00.00	36+59.00	PM6	60	LT	559							
31+00.00	36+59.00	PM6	60	RT	559							
31+00.00	36+59.00	PM6	60	℄				1118				
36+59.00	42+60.94	PM7	60	LT	603							
36+59.00	42+60.94	PM7	60	RT	603							
36+59.00	42+60.94	PM7	60	℄				1206				
					400			400				MISC. QUANTITIES AS NEEDED
				SUBTOTAL	9990	96	2586	10292	417	39	52	
				TOTALS	10086		12878		417	39	52	

(*) TYPE 1 PREFORM MARKING TAPE PAID FOR AS TYPE 2 TAPE (GROOVING NOT REQUIRED)

QUANTITY SHEET
SHEET 6 OF 7

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/9/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	3

COUNTY: NEWTON
JOB NO.: J7P3086
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

EFFECTIVE: 04-01-2016

SIGN	SIZE (IN.)	AREA (SQ. FT.)	QTY	TOTAL AREA	QTY RELOC	TOTAL RELOC AREA	DESCRIPTION
WARNING SIGNS							
W01-1L	48X48	16.00					TURN (SYMBOL LEFT ARROW)
W01-1R	48X48	16.00					TURN (SYMBOL RIGHT ARROW)
W01-2L	48X48	16.00					CURVE (SYMBOL LEFT ARROW)
W01-2R	48X48	16.00					CURVE (SYMBOL RIGHT ARROW)
W01-3L	48X48	16.00					REVERSE TURN (SYMBOL LEFT ARROW)
W01-3R	48X48	16.00					REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4L	48X48	16.00	4	64.00			REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4R	48X48	16.00	4	64.00			REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4bL	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
W01-4bR	48X48	16.00					DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
W01-4cL	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
W01-4cR	48X48	16.00					TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
W01-6	60X30	12.50					HORIZONTAL ARROW (SYMBOL)
W01-6a	72X36	18.00					HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE)
W01-7	60X30	12.50					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	72X36	18.00					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE)
W01-8	18X24	3.00					CHEVRON (SYMBOL)
W01-8a	30X36	7.50					CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
W03-1	48X48	16.00	4	64.00			STOP AHEAD (SYMBOL)
W03-2	48X48	16.00					YIELD AHEAD (SYMBOL)
W03-3	48X48	16.00					SIGNAL AHEAD (SYMBOL)
W03-4	48X48	16.00					BE PREPARED TO STOP
W03-5	48X48	16.00	4	64.00			SPEED LIMIT AHEAD
W04-1L	48X48	16.00					MERGE (SYMBOL FROM LEFT)
W04-1R	48X48	16.00					MERGE (SYMBOL FROM RIGHT)
W05-1	48X48	16.00					ROAD/BRIDGE/RAMP NARROWS
W05-3	48X48	16.00					ONE LANE BRIDGE
W05-5	48X48	16.00	4	64.00			NARROW LANES
W06-1	48X48	16.00					DIVIDED HIGHWAY (SYMBOL)
W06-2	48X48	16.00					DIVIDED HIGHWAY END (SYMBOL)
W06-3	48X48	16.00					TWO WAY TRAFFIC (SYMBOL)
W07-3a	30X24	5.00					NEXT XX MILES (PLAQUE)
W08-1	48X48	16.00	4	64.00			BUMP
W08-2	48X48	16.00					DIP
W08-3	48X48	16.00					PAVEMENT ENDS
W08-4	48X48	16.00					SOFT SHOULDER
W08-5	48X48	16.00					SLIPPERY WHEN WET (SYMBOL)
W08-6	48X48	16.00	4	64.00			TRUCK CROSSING WITH FLAGS
W08-6c	48X48	16.00					TRUCK ENTRANCE
W08-7	36X36	9.00					LOOSE GRAVEL
W08-9	48X48	16.00					LOW SHOULDER
W08-11	48X48	16.00	4	64.00			UNEVEN LANES
W08-12	48X48	16.00	4	64.00			NO CENTER LINE
W10-1	42 RND.	9.62					RAILROAD CROSSING
W012-1	24X24	4.00					DOUBLE DOWN ARROW (SYMBOL)
W012-2	48X48	16.00					LOW CLEARANCE (SYMBOL)
W012-2x	24X18	3.00					LOW CLEARANCE (PLAQUE)
W012-2a	84X24	14.00					OVERHEAD LOW CLEARANCE (FEET AND INCHES)
W08-15	48X48	16.00					GROOVED PAVEMENT
W08-15p	30X24	5.00					MOTORCYCLE (PLAQUE)
W08-17	48X48	16.00	4	64.00			SHOULDER DROP-OFF (SYMBOL)
W08-17p	30X24	5.00					SHOULDER DROP-OFF (PLAQUE)
SPECIAL	120X60	50.00					LOW CLEARANCE XX FT XX IN XX MILES AHEAD
SPECIAL	120X60	50.00					WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
W013-1	30X30	6.25					ADVISORY SPEED (PLAQUE)
W016-2	30X24	5.00					XXX FEET (PLAQUE)
W016-3	30X24	5.00					X MILE (PLAQUE)
W020-1	48X48	16.00	4	64.00			ROAD/BRIDGE/RAMP WORK AHEAD
W020-2	48X48	16.00					DETOUR AHEAD
W020-3	48X48	16.00					ROAD CLOSED AHEAD
W020-4	48X48	16.00	2	32.00			ONE LANE ROAD AHEAD
W020-5	48X48	16.00					RIGHT/CENTER/LEFT LANE CLOSED AHEAD
W020-5a	48X48	16.00					2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
W020-6a	48X48	16.00					RIGHT/CENTER/LEFT LANE CLOSED
W020-7a	48X48	16.00	4	64.00			FLAGGER (SYMBOL) WITH FLAGS
W021-2	36X36	9.00					FRESH OIL
W021-5b	48X48	16.00	4	64.00			SHOULDER WORK AHEAD
W022-1	48X48	16.00					BLASTING ZONE AHEAD
W022-2	42X36	10.50					TURN OFF 2-WAY RADIO AND PHONE
W022-3	42X36	10.50					END BLASTING ZONE
W022-6e	21X15	2.19	4	8.76			WET PAINT (ARROW PIVOTS)
GUIDE SIGNS							
SPECIAL	36X36	9.00					FRESH OIL/LOOSE GRAVEL
E05-1	36X48	12.00					GORE EXIT
E05-2	48X36	12.00					EXIT OPEN
E05-2a	48X36	12.00					EXIT CLOSED
G020-1	60X24	10.00					ROAD WORK NEXT XX MILES
G020-2	48X24	8.00	4	32.00			END ROAD WORK
G020-4	36X18	4.50					PILOT CAR FOLLOW ME
SPECIAL	42X30	8.75					PLEASE WAIT FOR PILOT CAR
G020-5aP	36X24	6.00	4	24.00			WORK ZONE (PLAQUE)
M04-8a	24X18	3.00					END DETOUR
M04-9L	48X36	12.00					DETOUR (LEFT ARROW)
M04-9R	48X36	12.00					DETOUR (RIGHT ARROW)
M04-10L	48X18	6.00					DETOUR (ARROW LEFT)
M04-10R	48X18	6.00					DETOUR (ARROW RIGHT)
REGULATORY SIGNS							
R1-1	48X48	13.25	4	53.00	4	53.00	STOP
R1-2	48 TRI.	6.93					YIELD
R1-2a	36X36	9.00					TO ONCOMING TRAFFIC (PLAQUE)
R1-3	20X9	1.25	4	5.00			X-WAY (PLAQUE)
R2-1	36X48	12.00	4	48.00			SPEED LIMIT XX
R3-1	48X48	16.00					NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00					NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00					NO TURNS
R3-4	48X48	16.00					NO U-TURN (SYMBOL)
R3-7L	30X30	6.25					LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25					RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00					DO NOT PASS
R4-2	36X48	12.00					PASS WITH CARE
R4-7aL	36X48	12.00					KEEP LEFT (HORIZONTAL ARROW)
R4-7a	36X48	12.00					KEEP RIGHT (HORIZONTAL ARROW)
R5-1	30X30	6.25					DO NOT ENTER
R5-1a	36X24	6.00					WRONG WAY
R6-1L	48X18	6.00					ONE WAY ARROW (LEFT)
R6-1R	48X18	6.00					ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00					ONE WAY (LEFT)
R6-2R	24X30	5.00					ONE WAY (RIGHT)
R10-6	24X36	6.00					STOP HERE ON RED (45° ARROW)
R11-2	48X30	10.00					ROAD CLOSED
R11-3a	60X30	12.50					ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50					ROAD CLOSED TO THRU TRAFFIC
S4-4	36X15	3.75					WHEN FLASHING
CONST-3A	60X48	20.00					FINE SIGN
CONST-3X	56X12	4.67					SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS							
SPECIAL	36X48	12.00					POINT OF PRESENCE
SPECIAL	96X48	32.00	4	128.00			POINT OF PRESENCE
CONST-7-48	48X24	8.00					RATE OUR WORK ZONE
CONST-7-72	72X36	18.00	4	72.00			RATE OUR WORK ZONE
616-10.05 CONSTRUCTION SIGNS TOTAL				1235			
616-10.10 RELOCATED SIGNS TOTAL						53.00	

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR (8 SAND BARRELS)
6122009		IMPACT ATTENUATOR (9 SAND BARRELS)
6122010		IMPACT ATTENUATOR (10 SAND BARRELS)
6122012		IMPACT ATTENUATOR (12 SAND BARRELS)
6122014		IMPACT ATTENUATOR (14 SAND BARRELS)
6122017		IMPACT ATTENUATOR (17 SAND BARRELS)
6122019		IMPACT ATTENUATOR (19 SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6123000A	4	TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)
6161007		SPEED LIMIT AND STROBE LIGHT ASSEMBLY
6161008	4	ADVANCED WARNING RAIL SYSTEM
6161009	48	FLAG ASSEMBLY
6161020		CHANNELIZER (DRUM-LIKE)
6161022		CHANNELIZER (CONES)
6161024		CHANNELIZER (TRIM LINE) WITH LIGHT
6161025		CHANNELIZER (TRIM LINE)
6161026		CHANNELIZER (VERTICAL PANEL)
6161027		CHANNELIZER (VERTICAL PANEL) WITH LIGHT
6161028	250	CHANNELIZER
6161030		TYPE III MOVEABLE BARRICADE
6161031		TYPE III MOVEABLE BARRICADE WITH LIGHT
6161033		DIRECTION INDICATOR BARRICADE
6161034		DIRECTION INDICATOR BARRICADE, WITH LIGHT
6161040	2	FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161051		WARNING LIGHT, TYPE A
6161052		WARNING LIGHT, TYPE B
6161053		WARNING LIGHT, TYPE C
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A		CHANGEABLE MESSAGE SIGN WITHOUT COMMUNICATION INTERFACE, CONTRACTOR FURNISHED/RETAINED
6161099	4	CHANGEABLE MESSAGE SIGN WITH COMMUNICATION INTERFACE, CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6173600D		CONTRACTOR FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER
6173602B		CONTRACTOR FURNISHED/COMMISSION RETAINED TEMPORARY TRAFFIC BARRIER
6174000A		TEMPORARY TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		COMMISSION FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER
6177000B		COMMISSION FURNISHED/RETAINED TEMPORARY TRAFFIC BARRIER HEIGHT TRANSITION
9019400		TEMPORARY LIGHTING
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

QUANTITY SHEET
SHEET 7 OF 7

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/9/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
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DESCRIPTION	DATE

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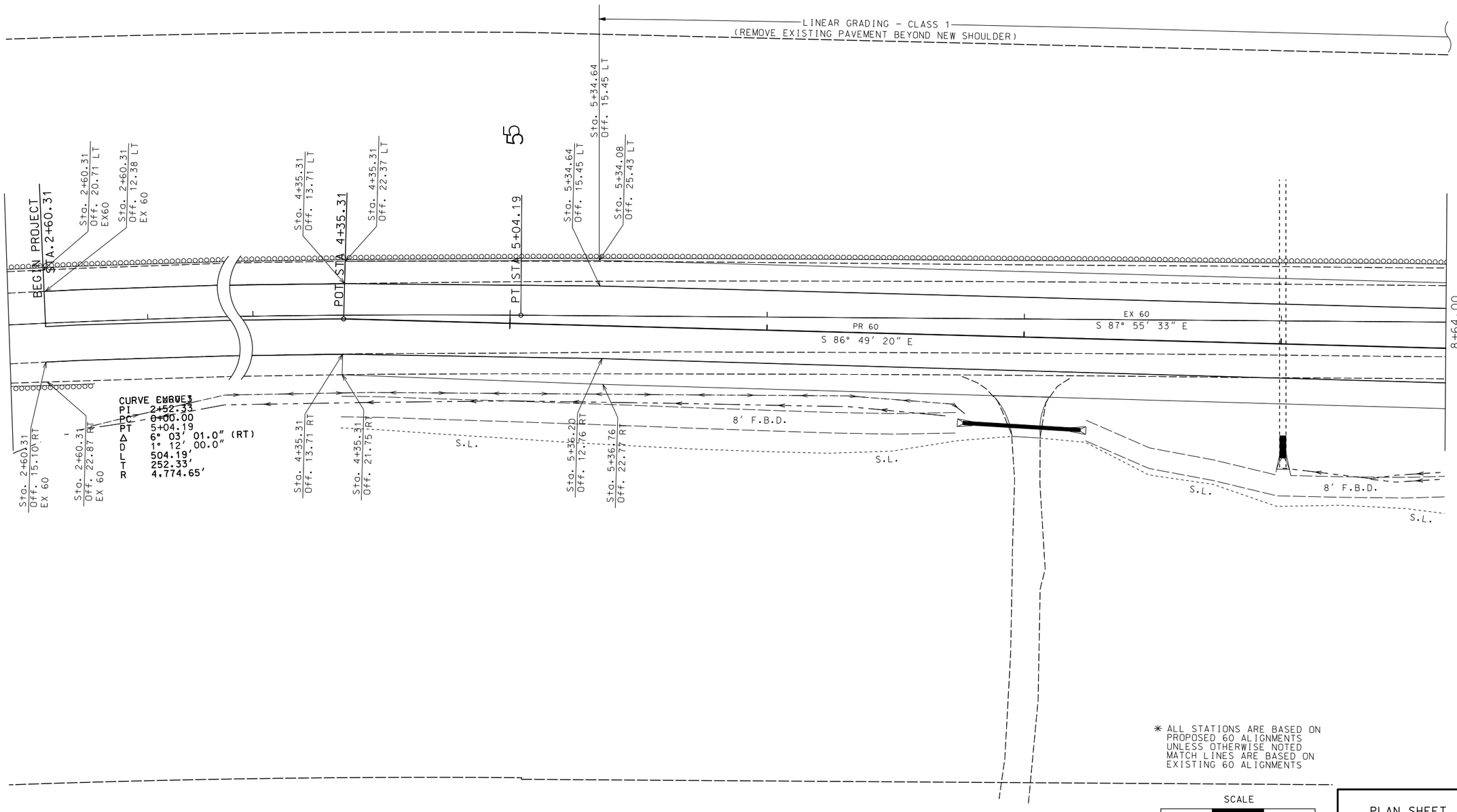
THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION.

ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMITS IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT.



* ALL STATIONS ARE BASED ON PROPOSED 60 ALIGNMENTS UNLESS OTHERWISE NOTED MATCH LINES ARE BASED ON EXISTING 60 ALIGNMENTS

SCALE
0 20 40 60

PLAN SHEET
SHEET 1 OF 9

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/9/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	4

COUNTY NEWTON

JOB NO. J7P3086

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LINEAR GRADING - CLASS 1
(REMOVE EXISTING PAVEMENT BEYOND NEW SHOULDER)

1010

8+64.00

EX 60
S 87° 55′ 33″ E

PR 60
S 86° 49′ 20″ E

PLOT1 STA 13+04.00

STA 13+04.00 AH

EQUATION:
STA 13+04.45 BK =
STA 13+04.00 AH

14+23.00

8′ F.B.D.

8′ F.B.D.

8′ F.B.D.

S.L.

S.L.

S.L.

PP

* ALL STATIONS ARE BASED ON PROPOSED 60 ALIGNMENTS UNLESS OTHERWISE NOTED MATCH LINES ARE BASED ON EXISTING 60 ALIGNMENTS

SCALE
0 20 40 60

PLAN SHEET
SHEET 2 OF 9

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/9/2016

ROUTE	STATE
60	MO

DISTRICT	SHEET NO.
SW	5

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LINEAR GRADING - CLASS 1
(REMOVE EXISTING PAVEMENT BEYOND NEW SHOULDER)

15 15

14+23.00

19+82.00

EX 60
S 87° 55' 33" E

PR 60
S 86° 49' 20" E

PT STA 19+37.73

S 88° 04' 53" E

8' F.B.D.

S.L.

S.L.

S.L.

8' F.B.D.

S.L.

Sta. 18+11.69
Off. 25.65 LT

Sta. 18+11.85
Off. 15.65 LT

Sta. 19+37.43
Off. 19.87 LT

Sta. 19+39.73
Off. 25.44 LT

Sta. 18+12.49
Off. 15.41 RT

Sta. 18+12.61
Off. 25.41 RT

Sta. 19+37.73
Off. 19.87 RT

Sta. 19+37.73
Off. 25.67 RT

PP

PP

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SCALE
0 20 40 60

PLAN SHEET
SHEET 3 OF 9

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/9/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	6

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

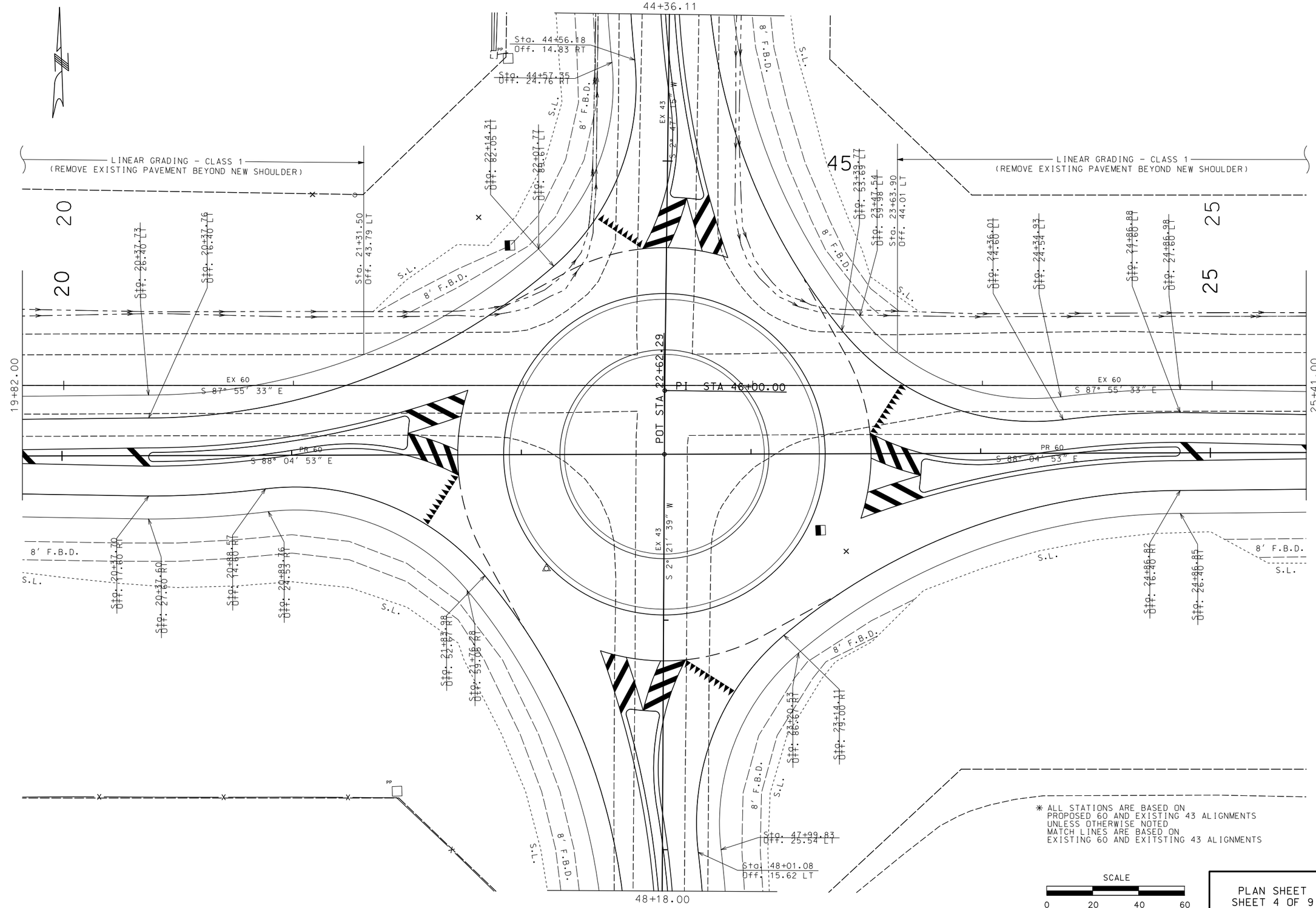
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/9/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	7

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

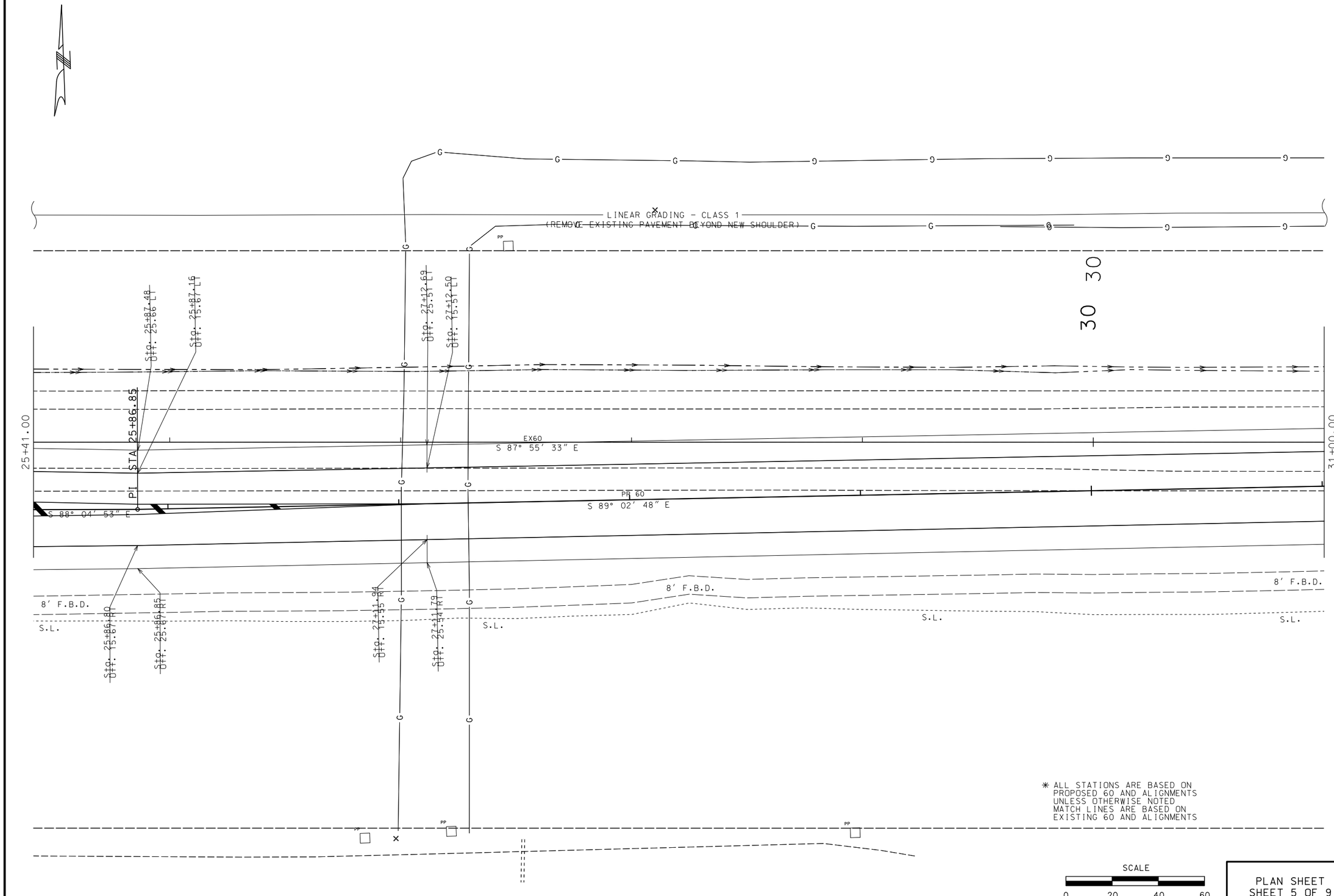
DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PLAN SHEET
SHEET 4 OF 9



* ALL STATIONS ARE BASED ON PROPOSED 60 AND ALIGNMENTS UNLESS OTHERWISE NOTED MATCH LINES ARE BASED ON EXISTING 60 AND ALIGNMENTS

SCALE

0 20 40 60

PLAN SHEET
SHEET 5 OF 9

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/9/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	8

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

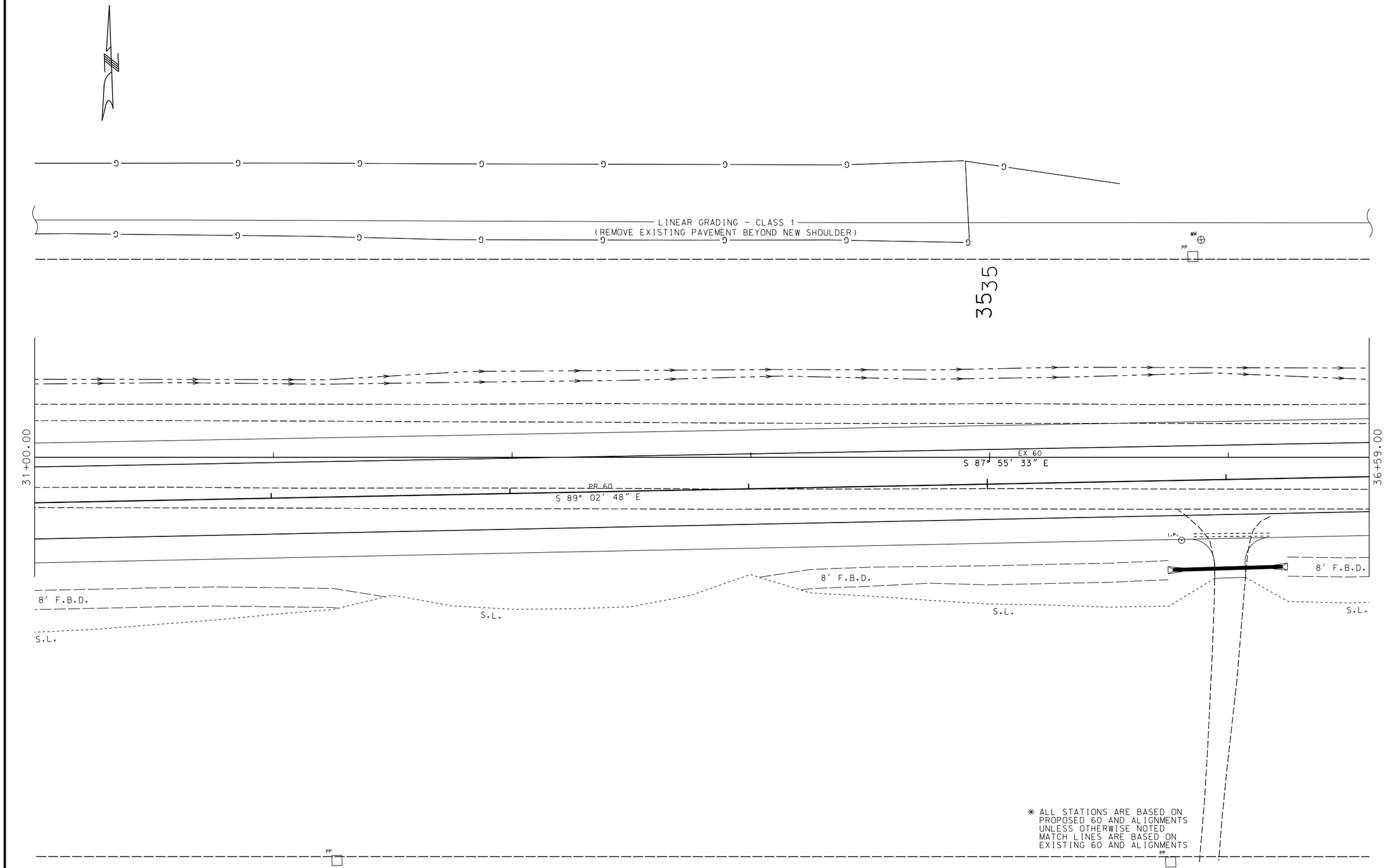
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



PLAN SHEET
SHEET 6 OF 9

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
3/9/2016	
ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	9

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LINEAR GRADING - CLASS 1
(REMOVE EXISTING PAVEMENT BEYOND NEW SHOULDER)

Sta. 39+86.73
Off. 13.90 LT

Sta. 39+86.56
Off. 23.90 LT

Sta. 39+86.56
Off. 23.90 LT

Sta. 40+85.94 R 2
Off. 13.75 LT

Sta. 40+85.94 R 2
Off. 22.17 LT

Sta. 40+60.94 R 2
Off. 14.68 LT

Sta. 40+60.94 R 2
Off. 22.63 LT

END PROJECT
STA. 42+60.94

36+59.00

PR 60
S 89° 02' 48" E

EX 60

EQUATION:
Sta. 40+89.98 BK =
Sta. 40+85.94 AH

8' F.B.D.

S.L.

8' F.B.D.

S.L.

Sta. 39+87.20
Off. 14.31 RT

Sta. 39+87.37
Off. 24.31 RT

Sta. 40+85.94 R 2
Off. 13.75 RT

S.L.

Sta. 40+85.94 R 2
Off. 21.79 RT

Sta. 40+60.94 R 2
Off. 13.33 RT

Sta. 40+60.94 R 2
Off. 21.92 RT

PP

PP

* ALL STATIONS ARE BASED ON PROPOSED 60 AND ALIGNMENTS UNLESS OTHERWISE NOTED MATCH LINES ARE BASED ON EXISTING 60 AND ALIGNMENTS

SCALE
0 20 40 60

PLAN-PROFILE
SHEET 7 OF 9

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/9/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	10

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

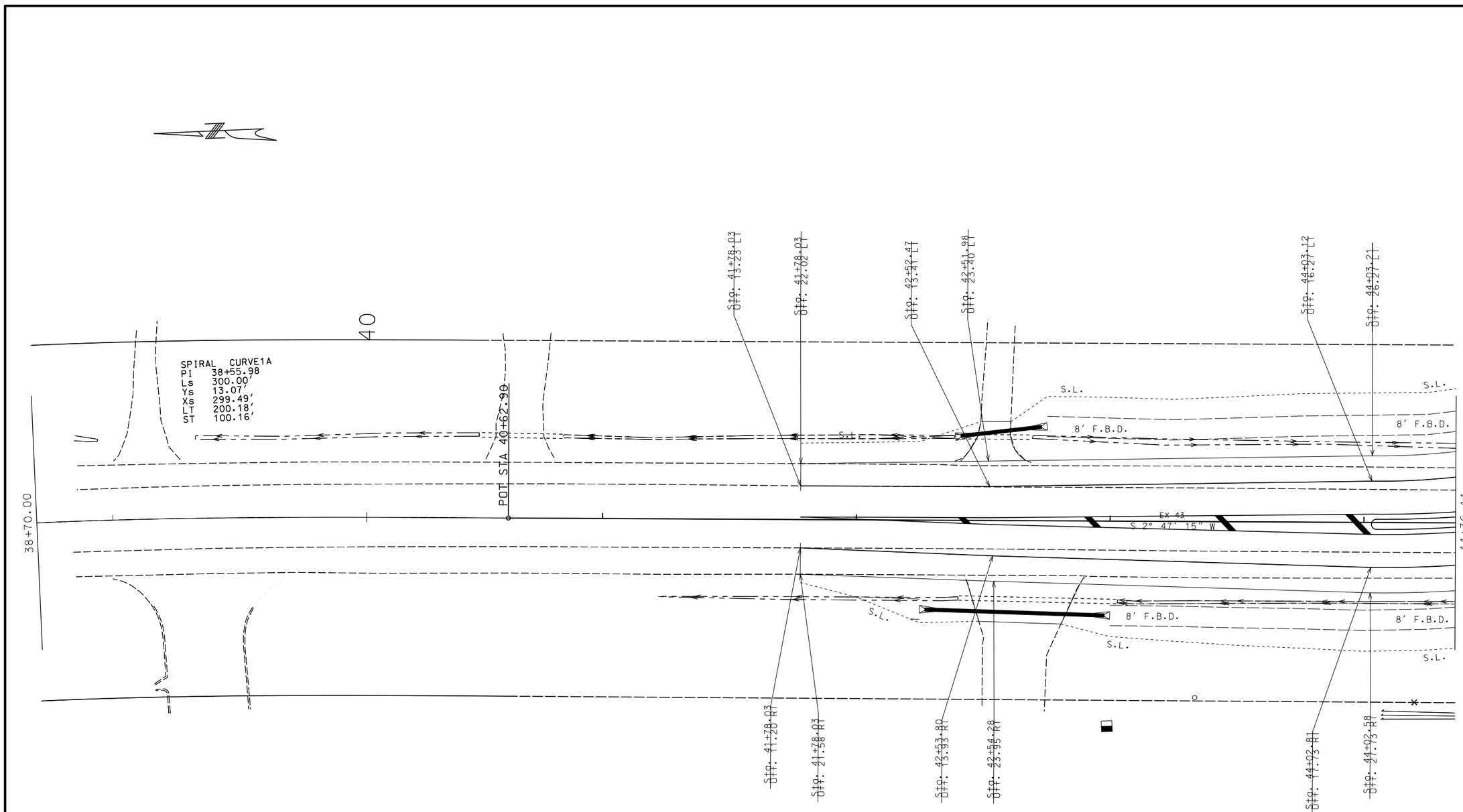
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



* ALL STATIONS ARE BASED ON EXISTING 43 ALIGNMENTS UNLESS OTHERWISE NOTED MATCH LINES ARE BASED ON EXITSTING 43 ALIGNMENTS

SCALE

0 20 40 60

PLAN-PROFILE
SHEET 8 OF 9

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/9/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	11

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

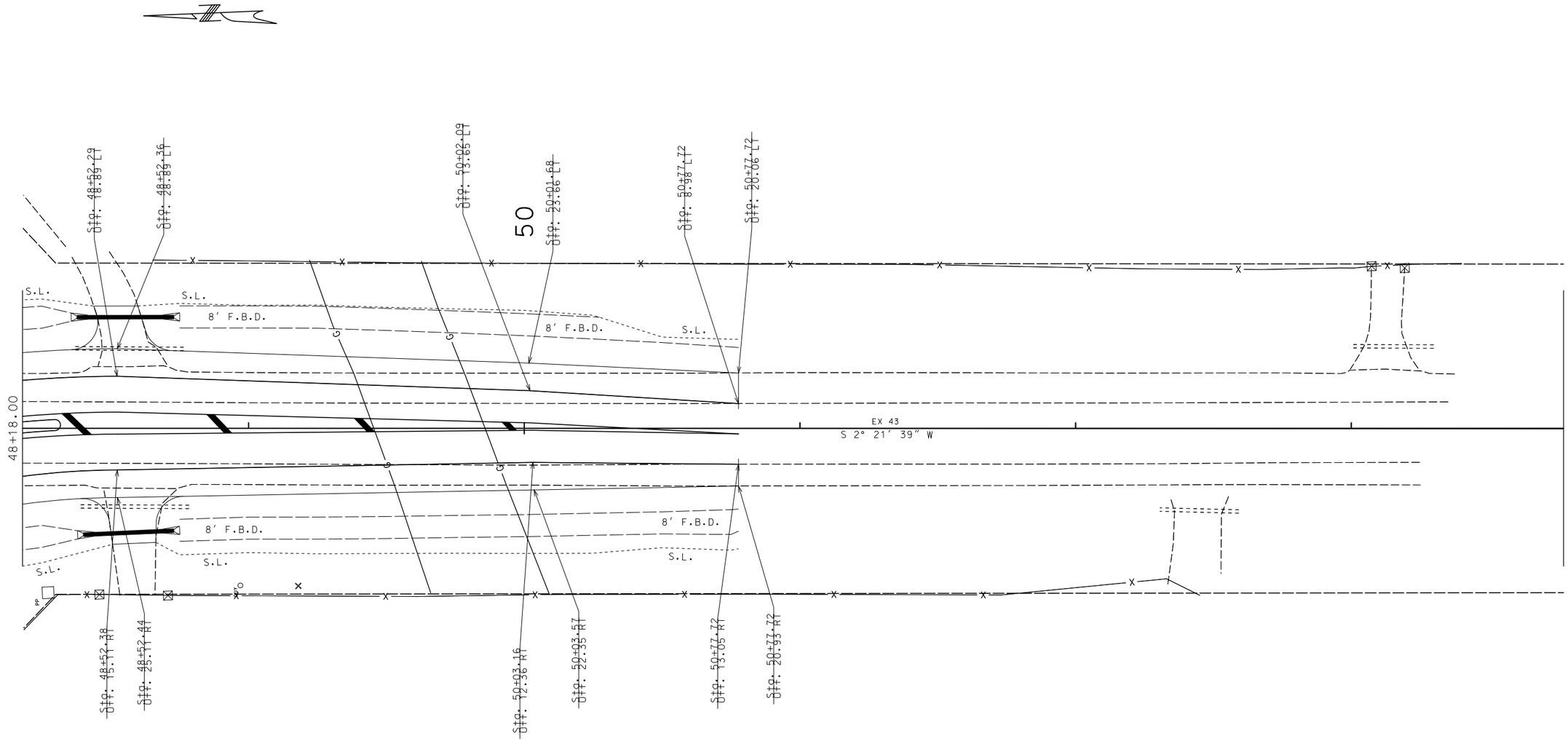
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



* ALL STATIONS ARE BASED ON EXISTING 43 ALIGNMENTS UNLESS OTHERWISE NOTED MATCH LINES ARE BASED ON EXITSTING 43 ALIGNMENTS

SCALE

0 20 40 60

PLAN–PROFILE
SHEET 9 OF 9

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/9/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	12

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

Coordinate Point Listing
Missouri Coordinate System of 1983

Reciprocal Average Grid Factor : 1.000103241

COORDINATE POINT SHEET									
SHEET NO	STATION (1)	LOCATION	OFFSET (1)	STATE PLANE		MODIFIED STATE PLANE		DESCRIPTION	POINT ID
				NORTHING	EASTING	NORTHING	EASTING		
CONTROL POINTS									
7	46+77.83	EX43	51.09' RT	239,397.068407	2,756,284.926388	239,421.784000	2,756,569.488000	CKMP3, ELEVATION 998.7980	RM2473
℄ EXISTING US60									
N/A	0+10.00	℄ EX60	0	239,529.517505	2,754,068.843840	239,554.246772	2,754,353.176662	POT	EX601
N/A	0+20.00	℄ EX60	0	239,530.221308	2,754,078.818010	239,554.950648	2,754,363.151861	PC OF CURVE EX60_3, PI Δ=0°03'36"RT, EQUATION (BACK)	PC EX60_3
N/A	0+00.00	℄ EX60	0	239,530.221308	2,754,078.818010	239,554.950648	2,754,363.151861	PC OF CURVE EX60_3, PI Δ=0°03'36"RT, EQUATION (AHEAD)	PC EX60_3
N/A	2+52.33	℄ EX60	N/A	239,547.716767	2,754,330.514151	239,572.447913	2,754,614.873988	PI Δ=6°03'01"RT OF CURVE EX60_3	PI EX60_3
N/A	N/A	℄ EX60	N/A	234,767.556154	2,754,409.872008	234,791.793791	2,754,694.240038	RADIUS POINT OF CURVE EX60_3	CC EX60_3
4	5+04.19	℄ EX60	0	239,538.585716	2,754,582.652333	239,563.315919	2,754,867.038201	PT OF CURVE EX60_3	PT EX60_3
5	13+04.45	℄ EX60	0	239,509.626697	2,755,382.305529	239,534.353910	2,755,666.773954	EQUATION (BACK)	STAEQU3
5	13+04.00	℄ EX60	0	239,509.626697	2,755,382.305529	239,534.353910	2,755,666.773954	EQUATION (AHEAD)	STAEQU3
N/A	57+09.76	℄ EX60	0	239,350.195400	2,759,784.724779	239,374.906154	2,760,069.647714	POT	EX605
℄ EXISTING MO43									
11	40+62.90	℄ EX43	0	240,009.128148	2,756,365.287993	240,033.906930	2,756,649.857902	POT	EX431
7	46+00.00	℄ EX43	0	239,472.723232	2,756,339.171487	239,497.446635	2,756,623.738699	PI Δ=0°25'35"LT	EX433
N/A	55+08.64	℄ EX43	0	238,564.941775	2,756,301.744635	238,589.571458	2,756,586.307983	POT	EX434
℄ PROPOSED US60 (CONSTRUCTION ALIGNMENT)									
4	4+35.31	℄ PR60	0	239,539.143137	2,754,513.728931	239,563.873398	2,754,798.107683	POT	PR601
6	19+37.73	℄ PR60	0	239,455.864406	2,756,013.686254	239,480.586069	2,756,298.219863	PI Δ=1°15'33"LT	PR603
7	22+62.29	℄ PR60	0	239,444.999649	2,756,338.028473	239,469.720190	2,756,622.595567	POT	PR605
8	25+86.85	℄ PR60	0	239,434.134891	2,756,662.370691	239,458.854311	2,756,946.971271	PI Δ=0°57'54"LT	PR607
10	40+86.98	℄ PR60	0	239,409.175387	2,758,162.142933	239,433.892230	2,758,446.898351	POT, EQUATION (BACK)	STAEQU1
10	40+85.94	℄ PR60	0	239,409.175387	2,758,162.142933	239,433.892230	2,758,446.898351	POT, EQUATION (AHEAD)	STAEQU1

1 Ground Distance

NOTE : The reciprocal of the average grid factor is used as a multiplier from state plane distance to ground distance.

COORDINATE POINT SHEET
SHEET 1 OF 1

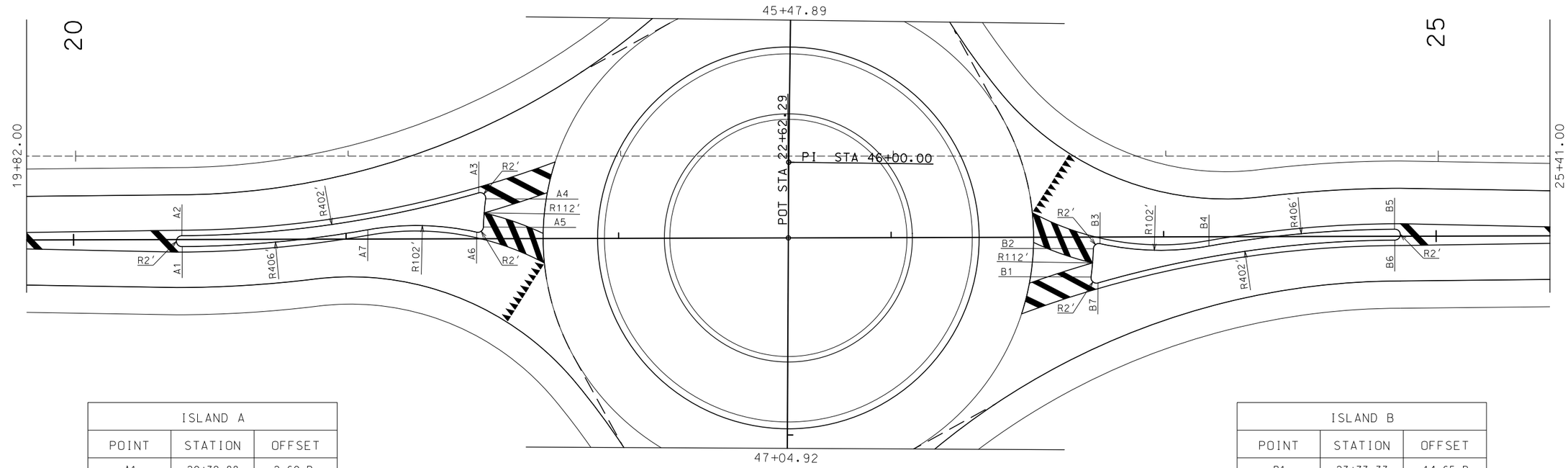
STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/8/2016
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. 13
COUNTY NEWTON
JOB NO. J7P3086
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



ISLAND A		
POINT	STATION	OFFSET
A1	20+39.88	2.60 R
A2	20+39.73	1.40 L
A3	21+48.72	16.84 L
A4	21+51.25	14.65 L
A5	21+50.37	4.28 L
A6	21+47.93	2.41 L
A7	21+07.97	3.41 L

ISLAND B		
POINT	STATION	OFFSET
B1	23+73.33	14.65 R
B2	23+74.21	4.28 R
B3	23+76.65	2.41 R
B4	24+16.61	3.41 R
B5	24+84.70	2.60 L
B6	24+84.85	1.40 R
B7	23+75.86	16.84 R

* ALL STATIONS AND OFFSETS ARE BASED ON PROPOSED 60 ALIGNMENT MATCH LINES ARE BASED ON EXISTING 60 AND EXISTING 43 ALIGNMENTS

SCALE
0 20 40 60

SPECIAL SHEET
US 60 MEDIAN ISLANDS
SHEET 1 OF 7

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	14

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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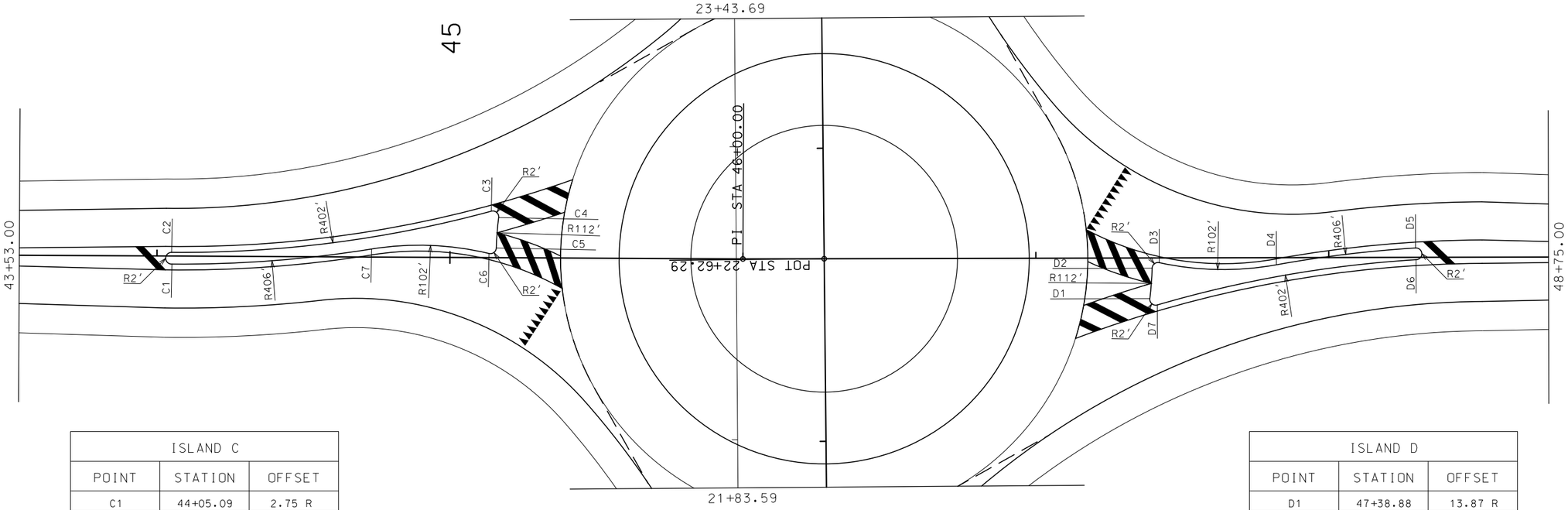
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



ISLAND C		
POINT	STATION	OFFSET
C1	44+05.09	2.75 R
C2	44+04.98	1.25 L
C3	45+14.04	15.86 L
C4	45+16.56	13.69 L
C5	45+15.79	3.30 L
C6	45+13.33	1.41 L
C7	44+73.23	2.75 L

ISLAND D		
POINT	STATION	OFFSET
D1	47+38.88	13.87 R
D2	47+39.69	3.49 R
D3	47+42.12	1.60 R
D4	47+82.11	2.43 R
D5	48+29.69	3.19 L
D6	48+29.98	0.79 R
D7	47+41.43	16.04 R

* ALL STATIONS AND OFFSETS ARE BASED ON EXISTING 43 ALIGNMENT MATCH LINES ARE BASED ON EXISTING 60 AND EXISTING 43 ALIGNMENTS

SCALE
0 20 40 60

SPECIAL SHEET
MO 43 MEDIAN ISLANDS
SHEET 2 OF 7

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	15

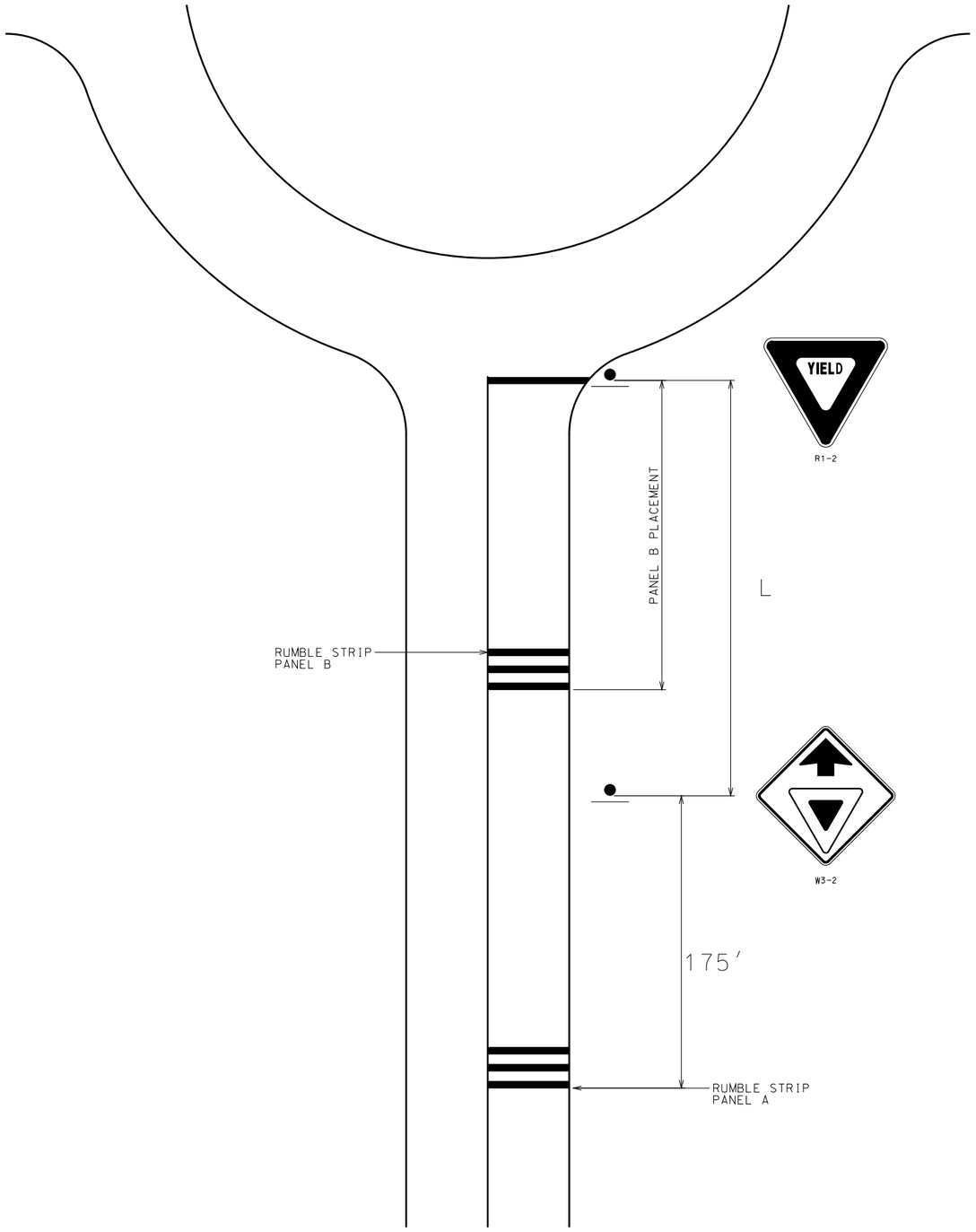
COUNTY NEWTON
JOB NO. J7P3086
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

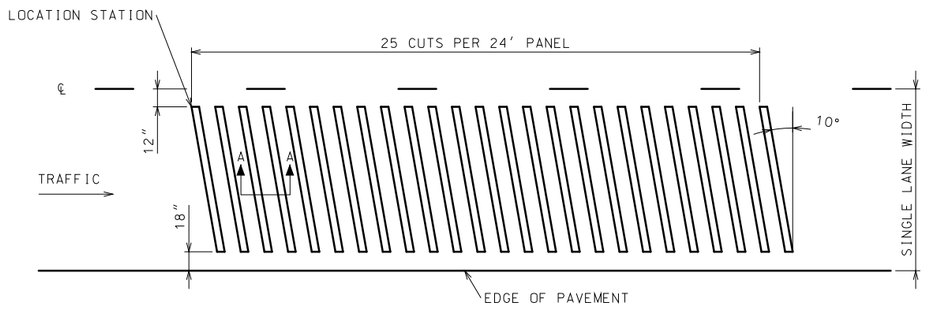
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

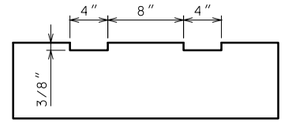
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TYPICAL TRANSVERSE RUMBLE STRIP LOCATION



TYPICAL TRANSVERSE RUMBLE STRIP DIMENSIONS





SECTION A-A

RUMBLE STRIP CUT IN NEW
PCC OR HMA PAVEMENT

NOT TO SCALE

TABLE 1		
POSTED OR 85TH PERCENTILE SPEED (MPH)	L (FT)	RUMBLE STRIP PANEL B (FT)
0-45	0-194.4	N/A
50	240.0	250
55	290.3	300
60	345.5	350
65	405.5	400

* ALL STATIONS AND OFFSETS ARE BASED ON EXISTING 43 ALIGNMENT MATCH LINES ARE BASED ON EXISTING 60 AND EXISTING 43 ALIGNMENTS

NOT TO SCALE

SPECIAL SHEET
TRANSVERSE RUMBLE STRIPS
SHEET 3 OF 7

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE PREPARED
3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	16

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

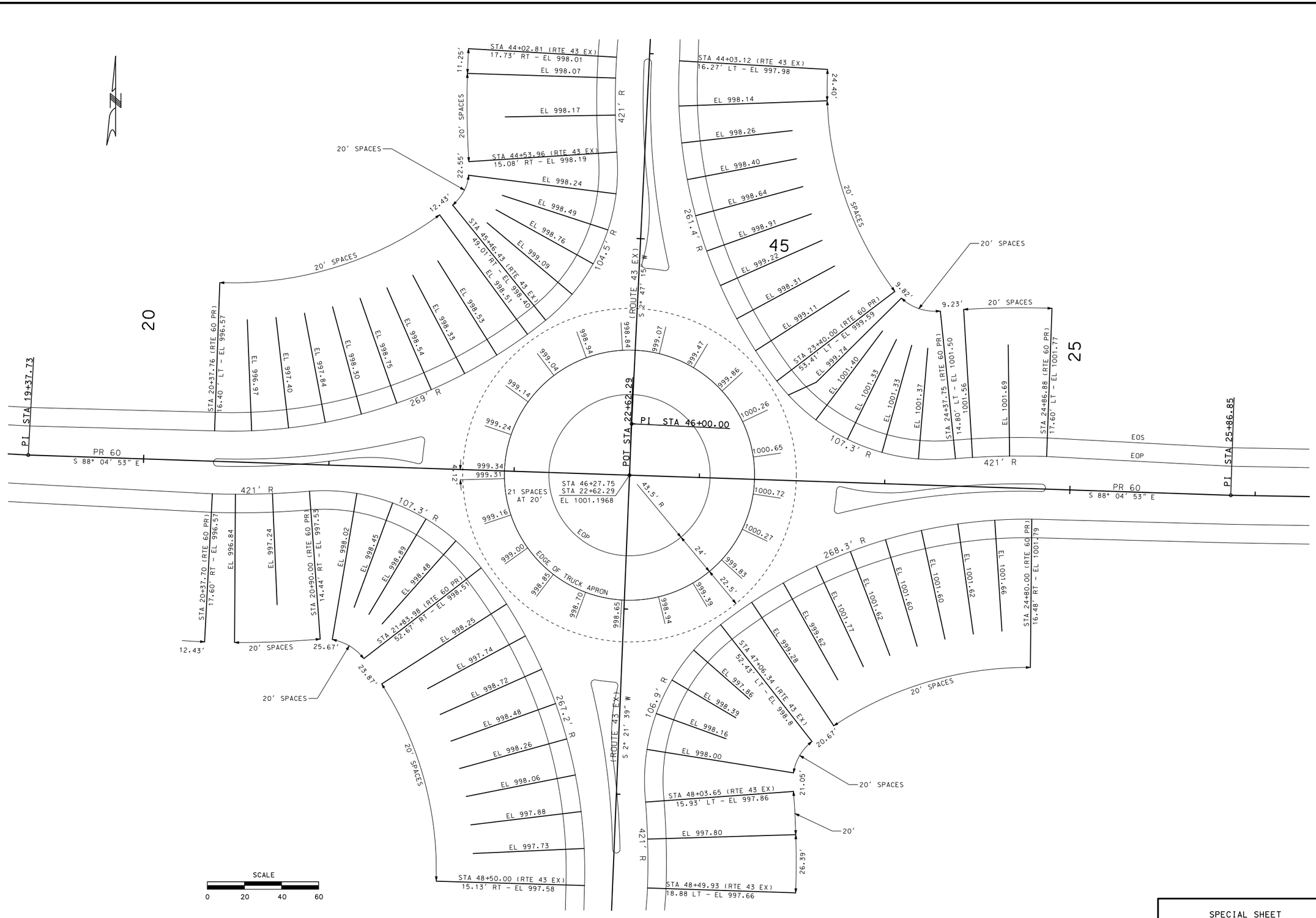
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



SPECIAL SHEET
EDGE OF PAVEMENT ELEVATIONS
SHEET 4 OF 7

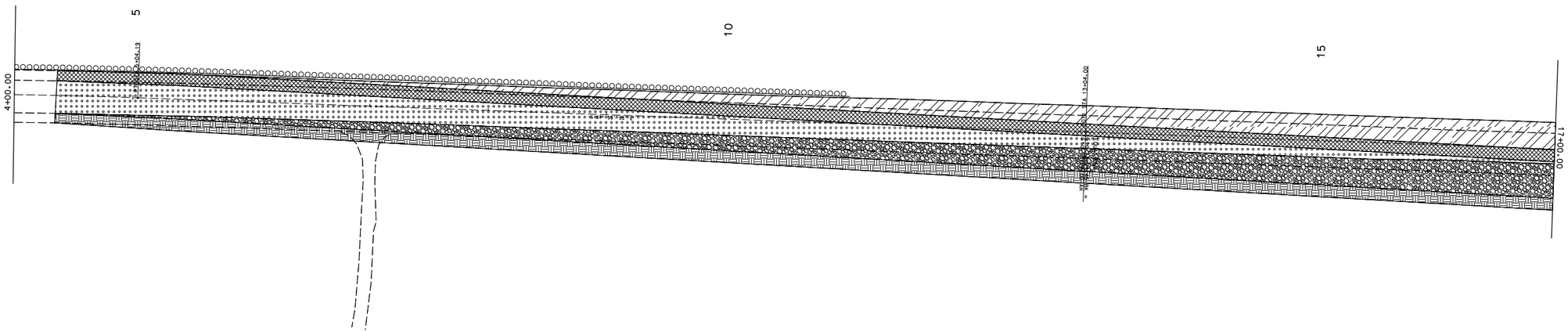
STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
3/8/2016	
ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	17
COUNTY	
NEWTON	
JOB NO.	
J7P3086	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



CAP OVER EXISTING 43

NEW A3 SHOULDER

FULL DEPTH PAVEMENT (60 & ROUNDBOUT)

OVERLAY (NEW SHOULDER)

WEDGE/CAP OVER EXISTING 60 FOR PR60/ROUNDABOUT

MILL AND FILL 43

FULL DEPTH PAVEMENT 43

TRUCK APRON

LINEAR GRADING

SCALE

0 50 100 150

SPECIAL SHEET
PAVEMENT
SHEET 5 OF 7

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	18

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

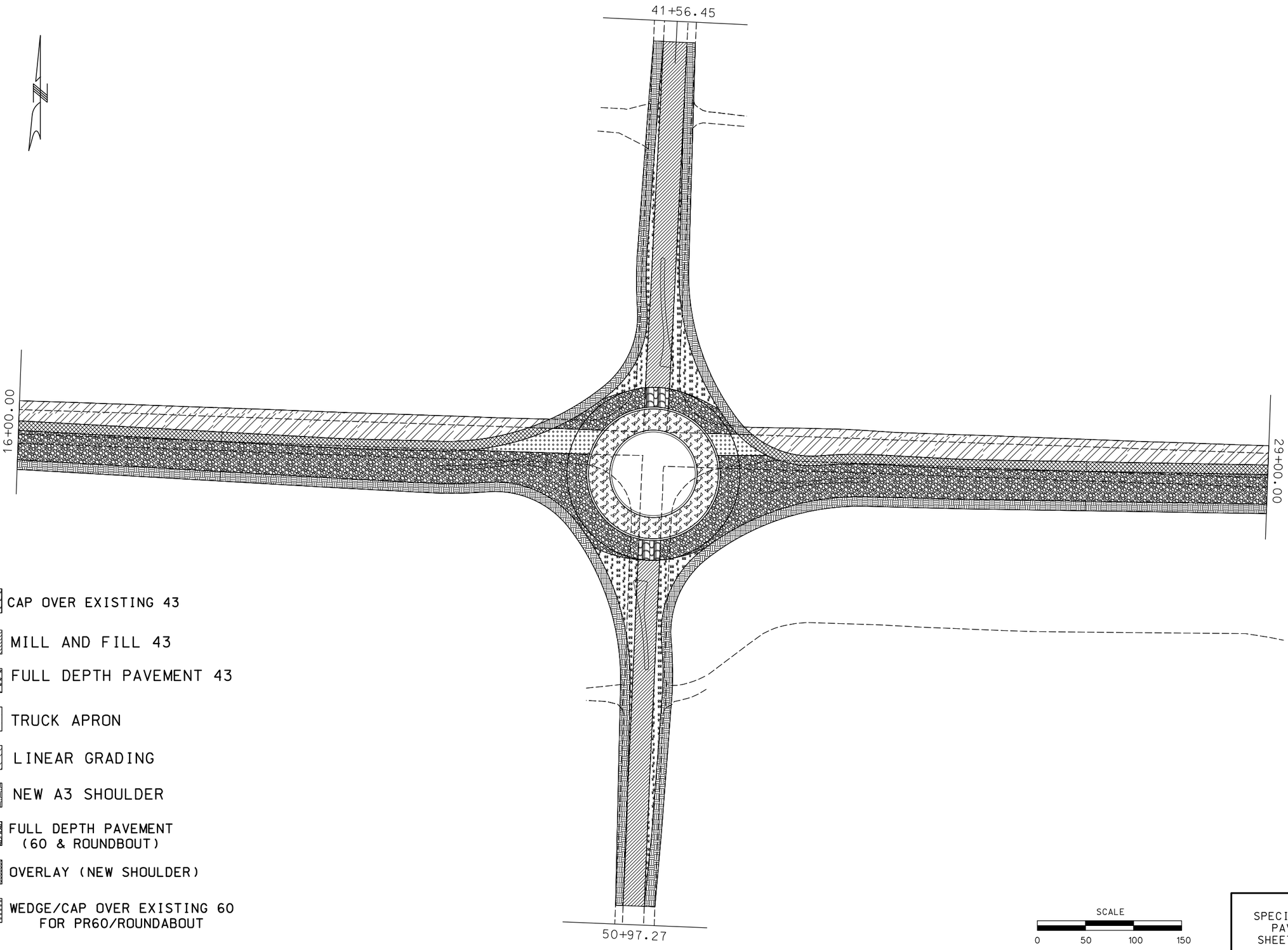
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



- CAP OVER EXISTING 43
- MILL AND FILL 43
- FULL DEPTH PAVEMENT 43
- TRUCK APRON
- LINEAR GRADING
- NEW A3 SHOULDER
- FULL DEPTH PAVEMENT (60 & ROUNDBOUT)
- OVERLAY (NEW SHOULDER)
- WEDGE/CAP OVER EXISTING 60 FOR PR60/ROUNDABOUT

SCALE
0 50 100 150

SPECIAL SHEET
PAVEMENT
SHEET 6 OF 7

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

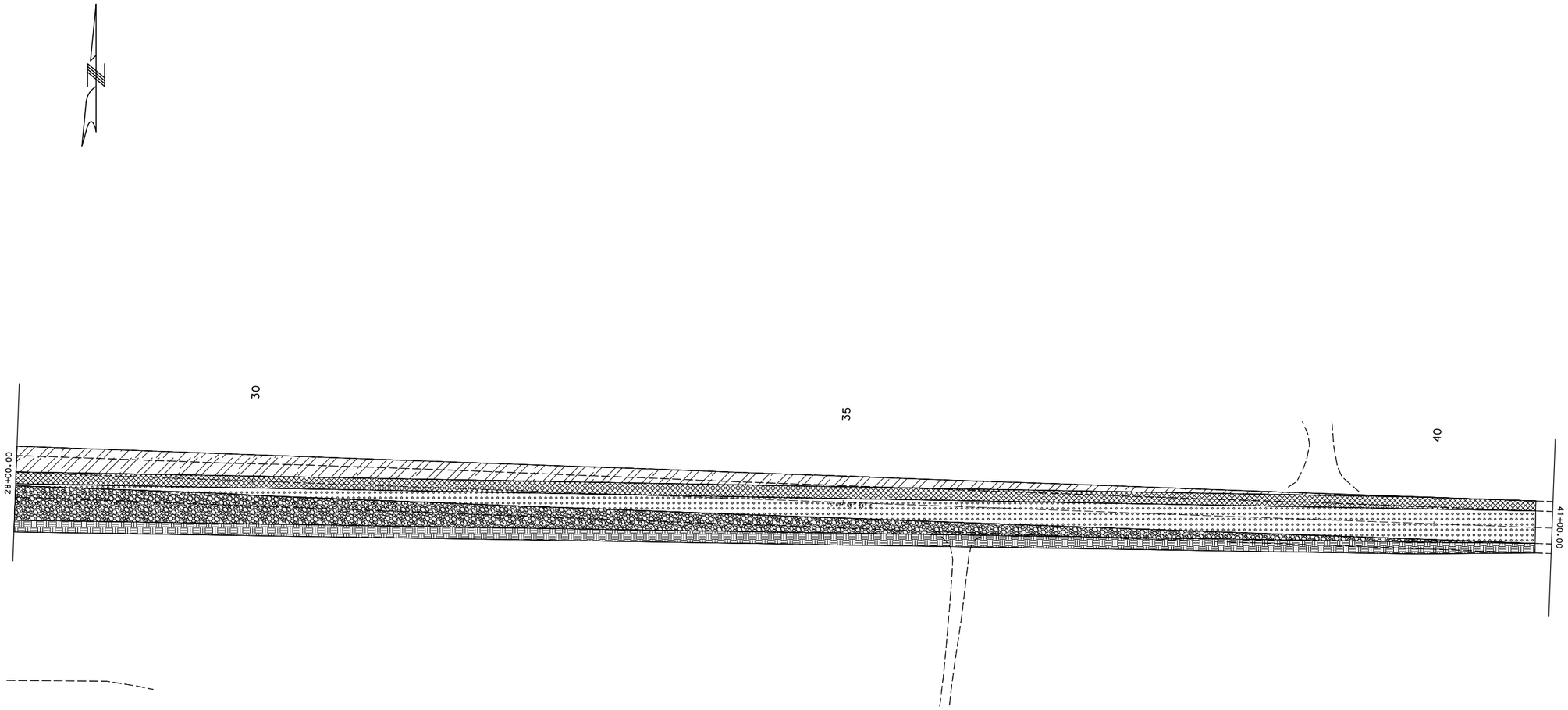
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
3/8/2016	
ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	19
COUNTY	
NEWTON	
JOB NO.	
J7P3086	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



CAP OVER EXISTING 43

NEW A3 SHOULDER

FULL DEPTH PAVEMENT (60 & ROUNDBOUT)

OVERLAY (NEW SHOULDER)

WEDGE/CAP OVER EXISTING 60 FOR PR60/ROUNDABOUT

MILL AND FILL 43

FULL DEPTH PAVEMENT 43

TRUCK APRON

LINEAR GRADING

SCALE

0 50 100 150

SPECIAL SHEET
PAVEMENT
SHEET 7 OF 7

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	20

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

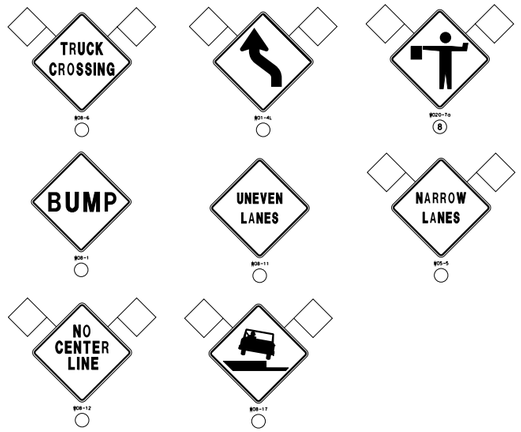
DATE	DESCRIPTION

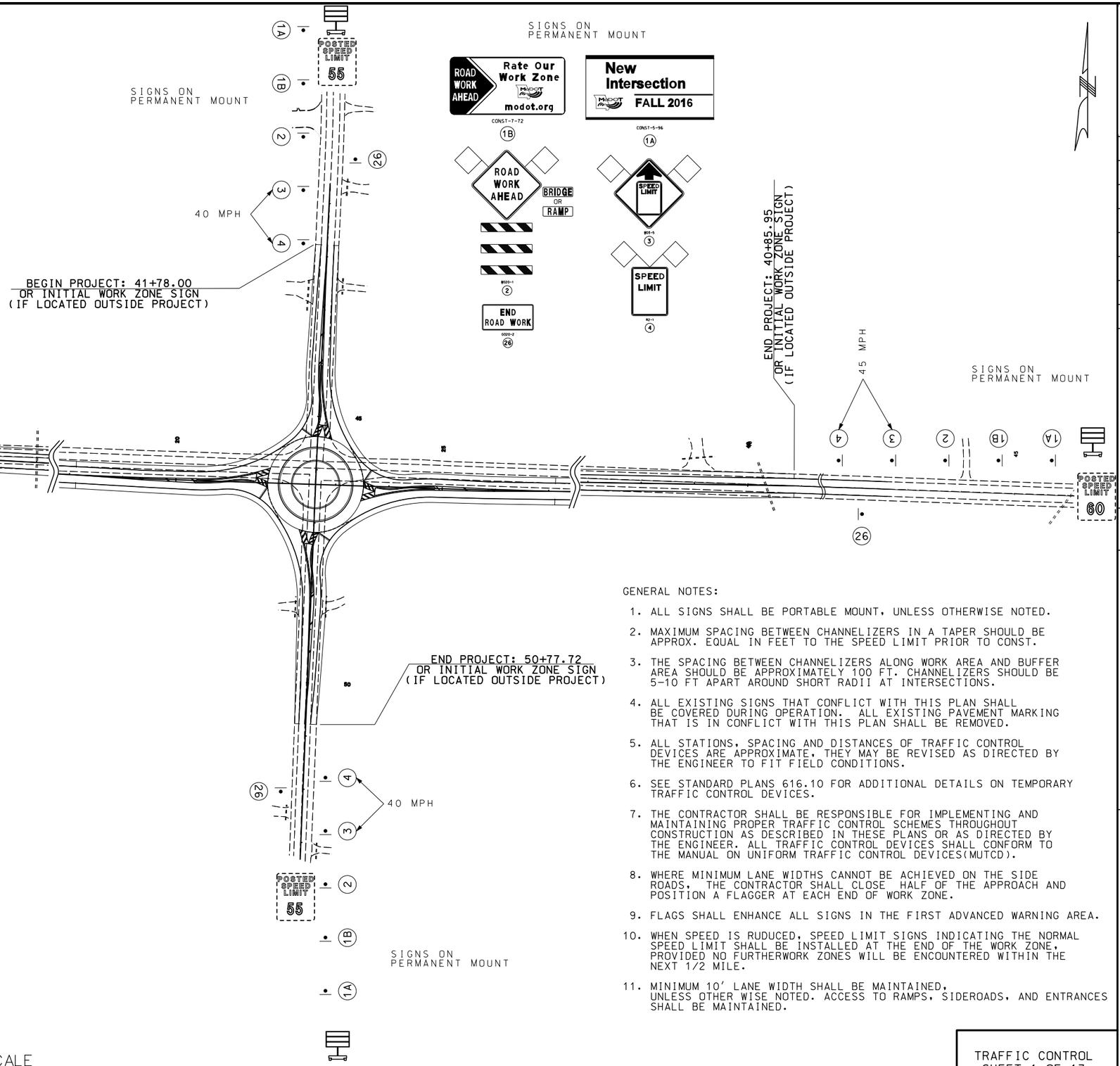
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

SIGNS NOT SHOWN IN TYPICAL TRAFFIC CONTROL SETUPS.
MAY BE USED IF NEEDED AT THE APPROVAL OF THE ENGINEER.





TRAFFIC CONTROL LEGEND

- SIGN ON PERMANENT MOUNT (NON-PORTABLE SIGN)
- SIGN ON PORTABLE MOUNT (PORTABLE SIGN)
- EXIST. NON-PORTABLE SIGN
- CHANNELIZER (TRIM-LINE)
- CONE
- MOVABLE BARRICADE(S)
- LANE USE
- FLAGGER
- TYPE B WARNING LIGHT
- TUBULAR MARKER
- FLASHING ARROW PANEL
- CHANGEABLE MESSAGE BOARD

NOT TO SCALE

GENERAL NOTES:

1. ALL SIGNS SHALL BE PORTABLE MOUNT, UNLESS OTHERWISE NOTED.
2. MAXIMUM SPACING BETWEEN CHANNELIZERS IN A TAPER SHOULD BE APPROX. EQUAL IN FEET TO THE SPEED LIMIT PRIOR TO CONST.
3. THE SPACING BETWEEN CHANNELIZERS ALONG WORK AREA AND BUFFER AREA SHOULD BE APPROXIMATELY 100 FT. CHANNELIZERS SHOULD BE 5-10 FT APART AROUND SHORT RADII AT INTERSECTIONS.
4. ALL EXISTING SIGNS THAT CONFLICT WITH THIS PLAN SHALL BE COVERED DURING OPERATION. ALL EXISTING PAVEMENT MARKING THAT IS IN CONFLICT WITH THIS PLAN SHALL BE REMOVED.
5. ALL STATIONS, SPACING AND DISTANCES OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE, THEY MAY BE REVISED AS DIRECTED BY THE ENGINEER TO FIT FIELD CONDITIONS.
6. SEE STANDARD PLANS 616.10 FOR ADDITIONAL DETAILS ON TEMPORARY TRAFFIC CONTROL DEVICES.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING PROPER TRAFFIC CONTROL SCHEMES THROUGHOUT CONSTRUCTION AS DESCRIBED IN THESE PLANS OR AS DIRECTED BY THE ENGINEER. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES(MUTCD).
8. WHERE MINIMUM LANE WIDTHS CANNOT BE ACHIEVED ON THE SIDE ROADS, THE CONTRACTOR SHALL CLOSE HALF OF THE APPROACH AND POSITION A FLAGGER AT EACH END OF WORK ZONE.
9. FLAGS SHALL ENHANCE ALL SIGNS IN THE FIRST ADVANCED WARNING AREA.
10. WHEN SPEED IS RUDUCED, SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE, PROVIDED NO FURTHERWORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT 1/2 MILE.
11. MINIMUM 10' LANE WIDTH SHALL BE MAINTAINED, UNLESS OTHER WISE NOTED. ACCESS TO RAMPS, SIDEROADS, AND ENTRANCES SHALL BE MAINTAINED.

TRAFFIC CONTROL
SHEET 1 OF 13

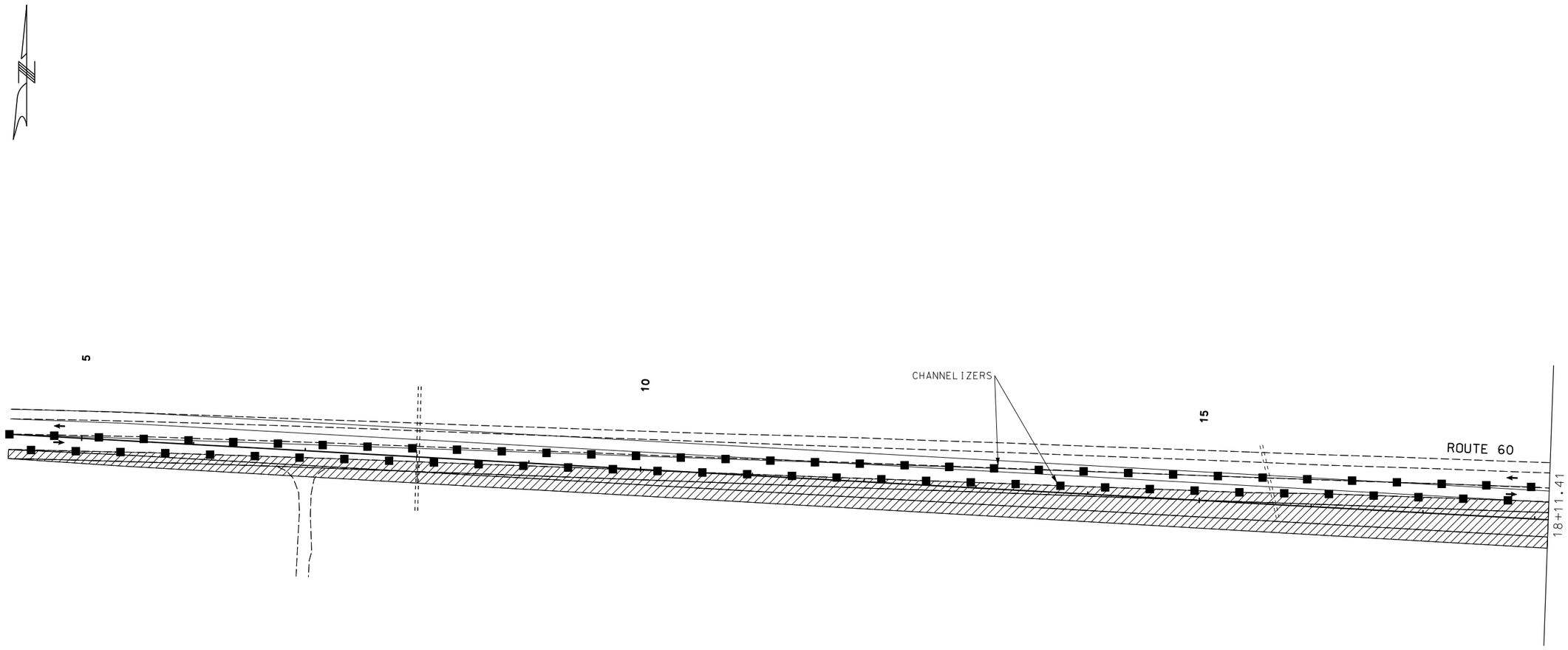
STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
3/8/2016	
ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	21
COUNTY	
NEWTON	
JOB NO.	
J7P3086	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD

SCALE
0 50 100 150

UNDER CONSTRUCTION

1. PERFORM EARTHWORK & BUILD DRAINAGE STRUCTURES
2. CONSTRUCT FULL DEPTH PAVEMENT WIDENING & SHOULDERS
3. INSTALL LIGHTING
4. PLACE SEEDING & MULCH

NOTE:
MATCH LINES ARE BASED ON EXISTING 60
REFER TO SHEET 23

TRAFFIC CONTROL
STAGE 1
SHEET 2 OF 13

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	22

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

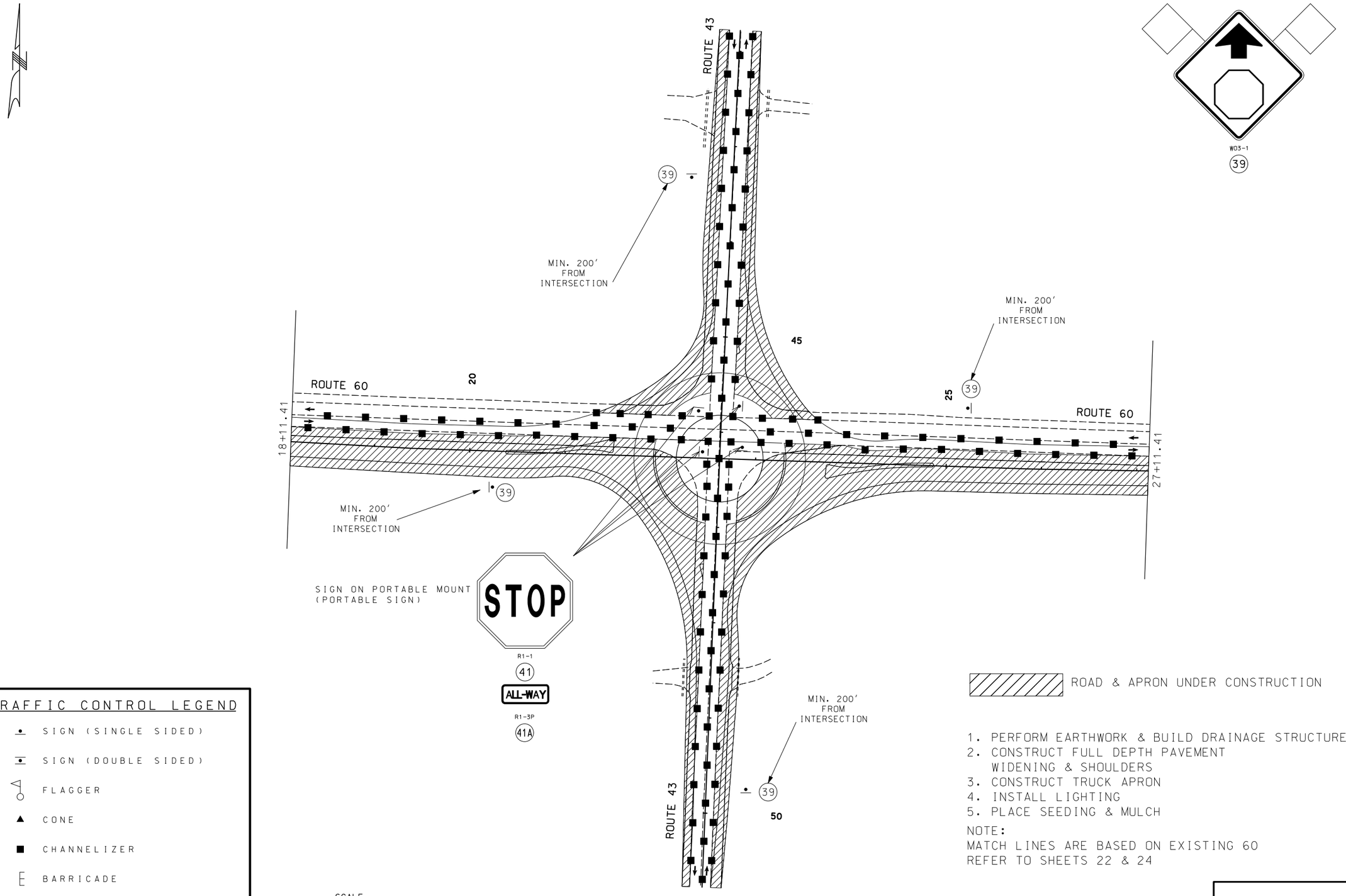
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD

SCALE

0 50 100 150

1. PERFORM EARTHWORK & BUILD DRAINAGE STRUCTURES
2. CONSTRUCT FULL DEPTH PAVEMENT WIDENING & SHOULDERS
3. CONSTRUCT TRUCK APRON
4. INSTALL LIGHTING
5. PLACE SEEDING & MULCH

NOTE:
MATCH LINES ARE BASED ON EXISTING 60
REFER TO SHEETS 22 & 24

TRAFFIC CONTROL
STAGE 1
SHEET 3 OF 13

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	23

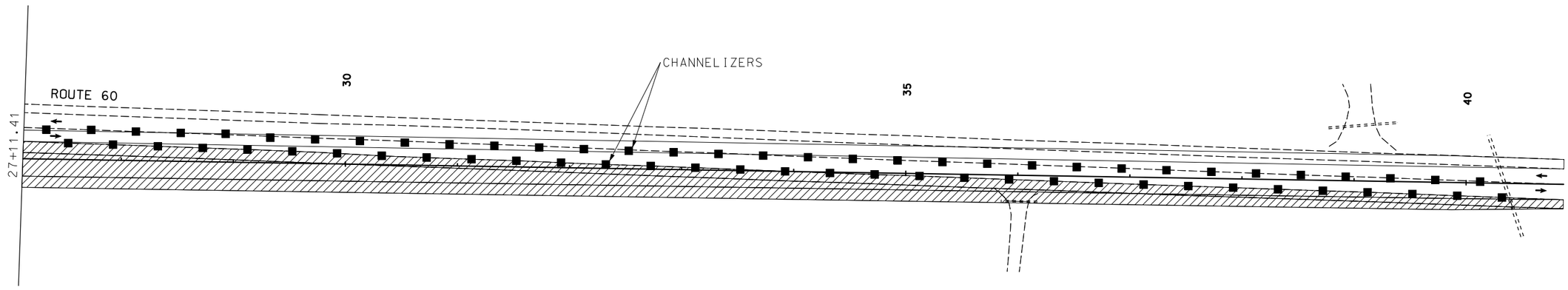
COUNTY: NEWTON
JOB NO.: J7P3086
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD

SCALE
0 50 100 150

ROAD UNDER CONSTRUCTION

1. PERFORM EARTHWORK & BUILD DRAINAGE STRUCTURES
2. CONSTRUCT FULL DEPTH PAVEMENT WIDENING & SHOULDERS
3. INSTALL LIGHTING
4. PLACE SEEDING & MULCH

NOTE:
MATCH LINES ARE BASED ON EXISTING 60
REFER TO SHEET 23

TRAFFIC CONTROL
STAGE 1
SHEET 4 OF 13

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	24

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

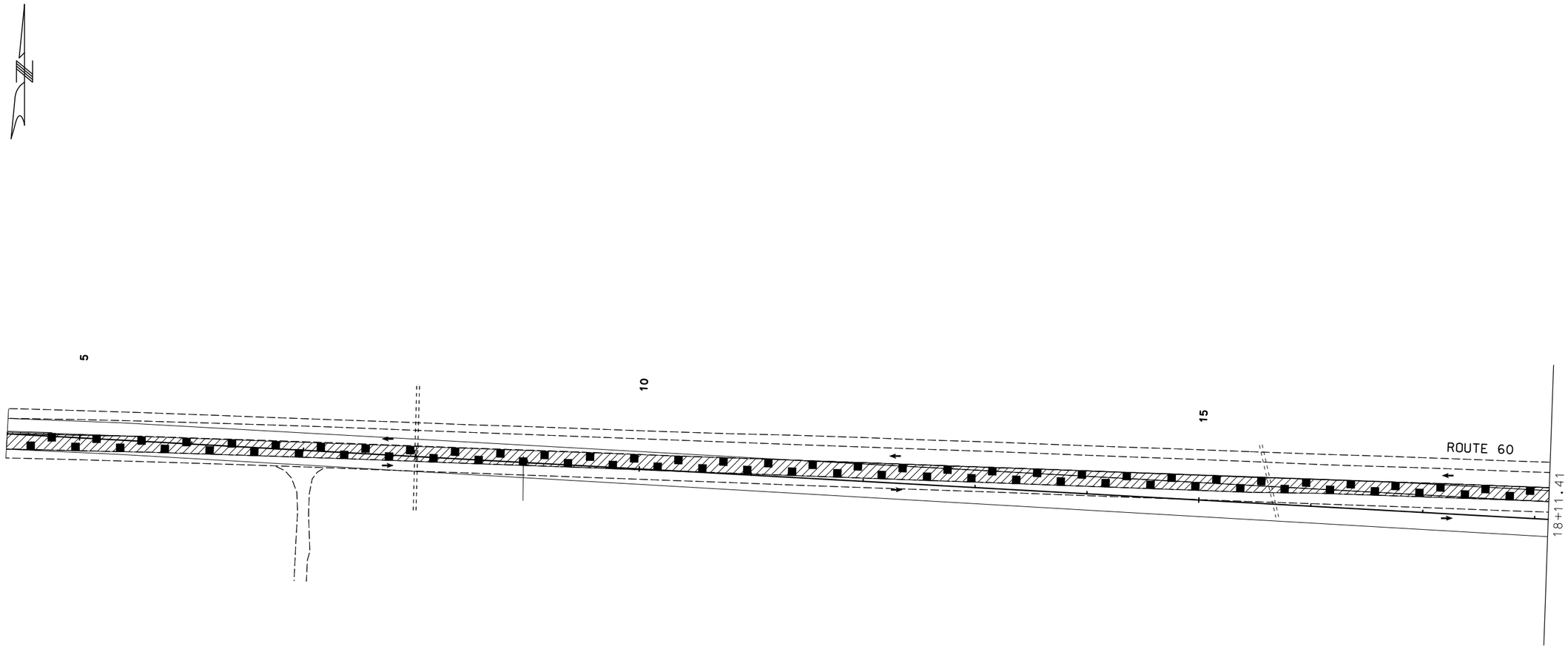
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD

SCALE
0 50 100 150

UNDER CONSTRUCTION

1. PERFORM PAVEMENT & SHOULDER CONSTRUCTION MERGING NEW 60 WITH EXISTING 60

NOTE:
MATCH LINES ARE BASED ON EXISTING 60
REFER TO SHEET 26

TRAFFIC CONTROL
STAGE 1
SHEET 5 OF 13

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	25

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

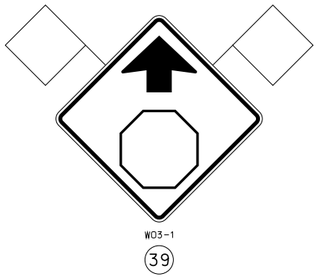
BRIDGE NO.

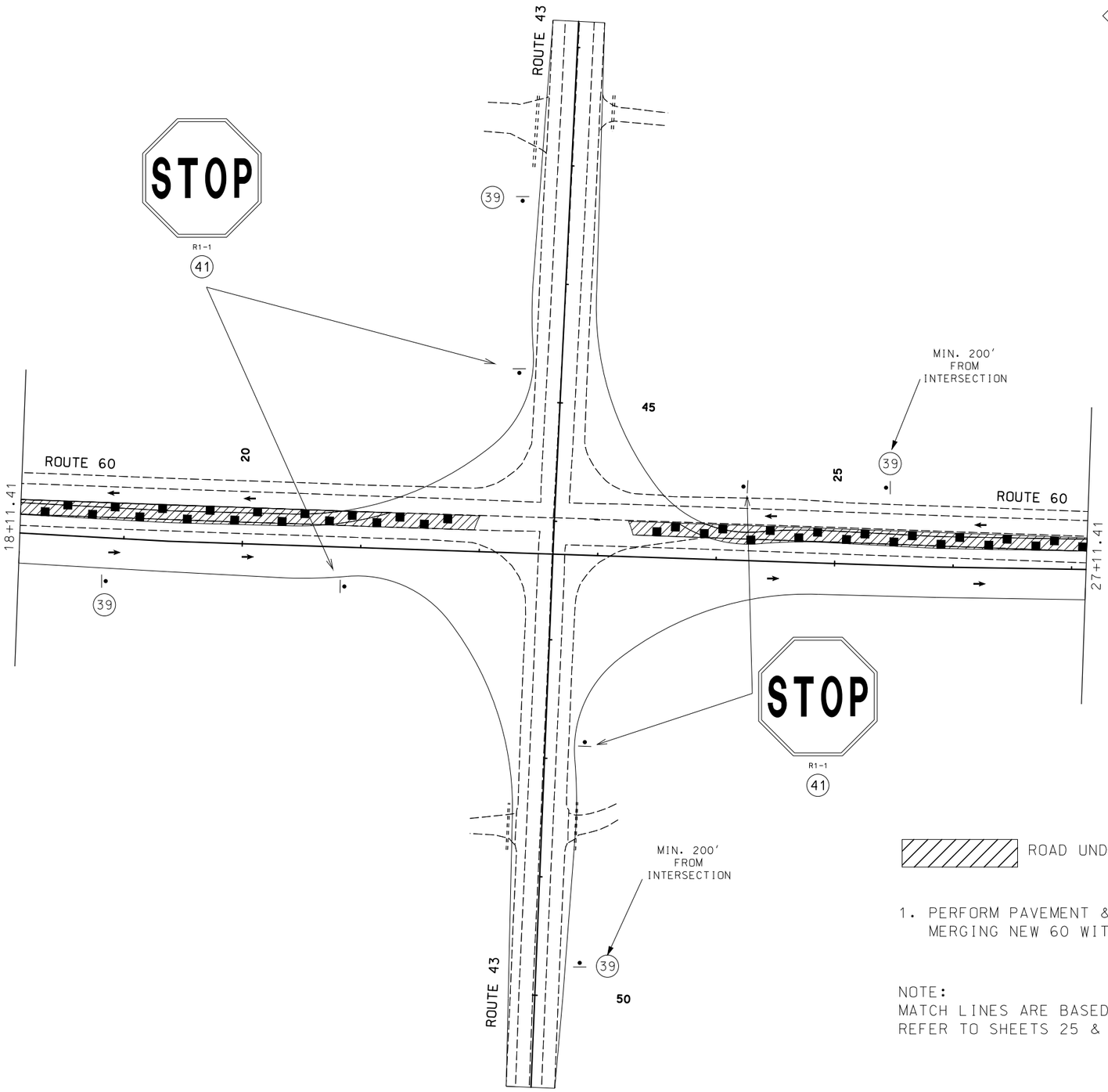
DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGN ON PORTABLE MOUNT
(PORTABLE SIGN)





TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD

SCALE
0 50 100 150

ROAD UNDER CONSTRUCTION

1. PERFORM PAVEMENT & SHOULDER CONSTRUCTION, MERGING NEW 60 WITH EXISTING 60

NOTE:
MATCH LINES ARE BASED ON EXISTING 60
REFER TO SHEETS 25 & 27

TRAFFIC CONTROL
STAGE 2
SHEET 6 OF 13

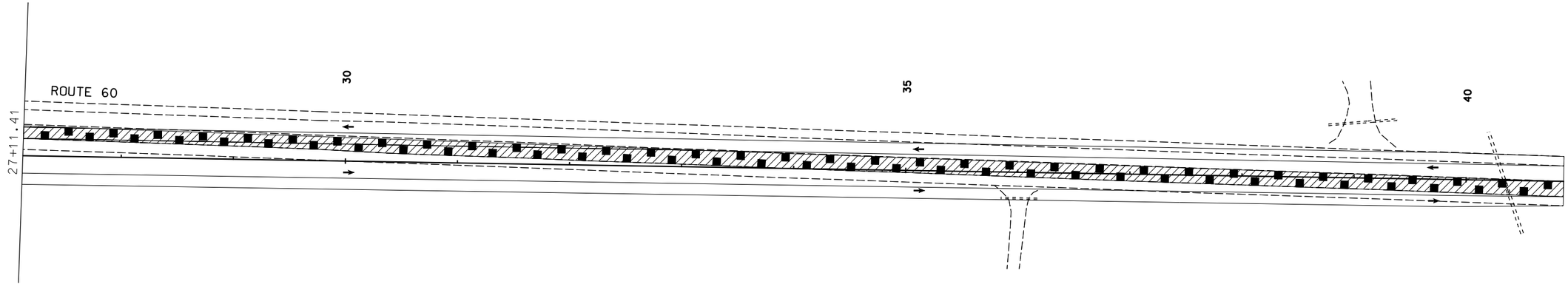
STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/8/2016
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. 26
COUNTY NEWTON
JOB NO. J7P3086
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD

SCALE
0 50 100 150

ROAD UNDER CONSTRUCTION

1. PERFORM PAVEMENT & SHOULDER CONSTRUCTION MERGING NEW 60 WITH EXISTING 60

NOTE:
MATCH LINES ARE BASED ON EXISTING 60
REFER TO SHEET 26

TRAFFIC CONTROL
STAGE 2
SHEET 7 OF 13

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	27

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

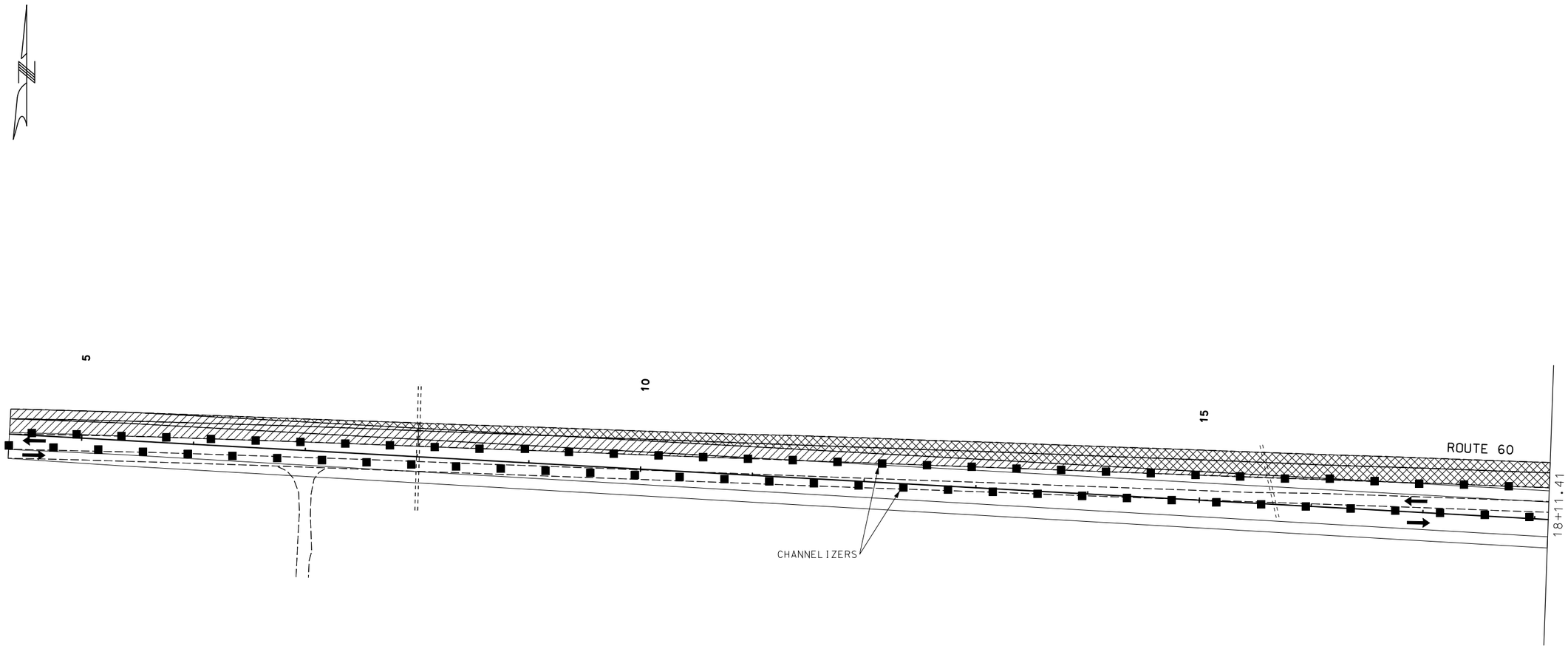
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD

SCALE
0 50 100 150

REMOVE ASPHAULT SURFACE

ROAD UNDER CONSTRUCTION

1. PERFORM PAVEMENT & SHOULDER CONSTUCTION
2. FINISH MERGING NEW 60 TO EXISTING 60
3. REMOVE ASPHAULT SURFACE FROM REMAINING EXISTING 60

NOTE:
MATCH LINES ARE BASED ON EXISTING 60
REFER TO SHEET 29

TRAFFIC CONTROL
STAGE 3
SHEET 8 OF 13

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	28

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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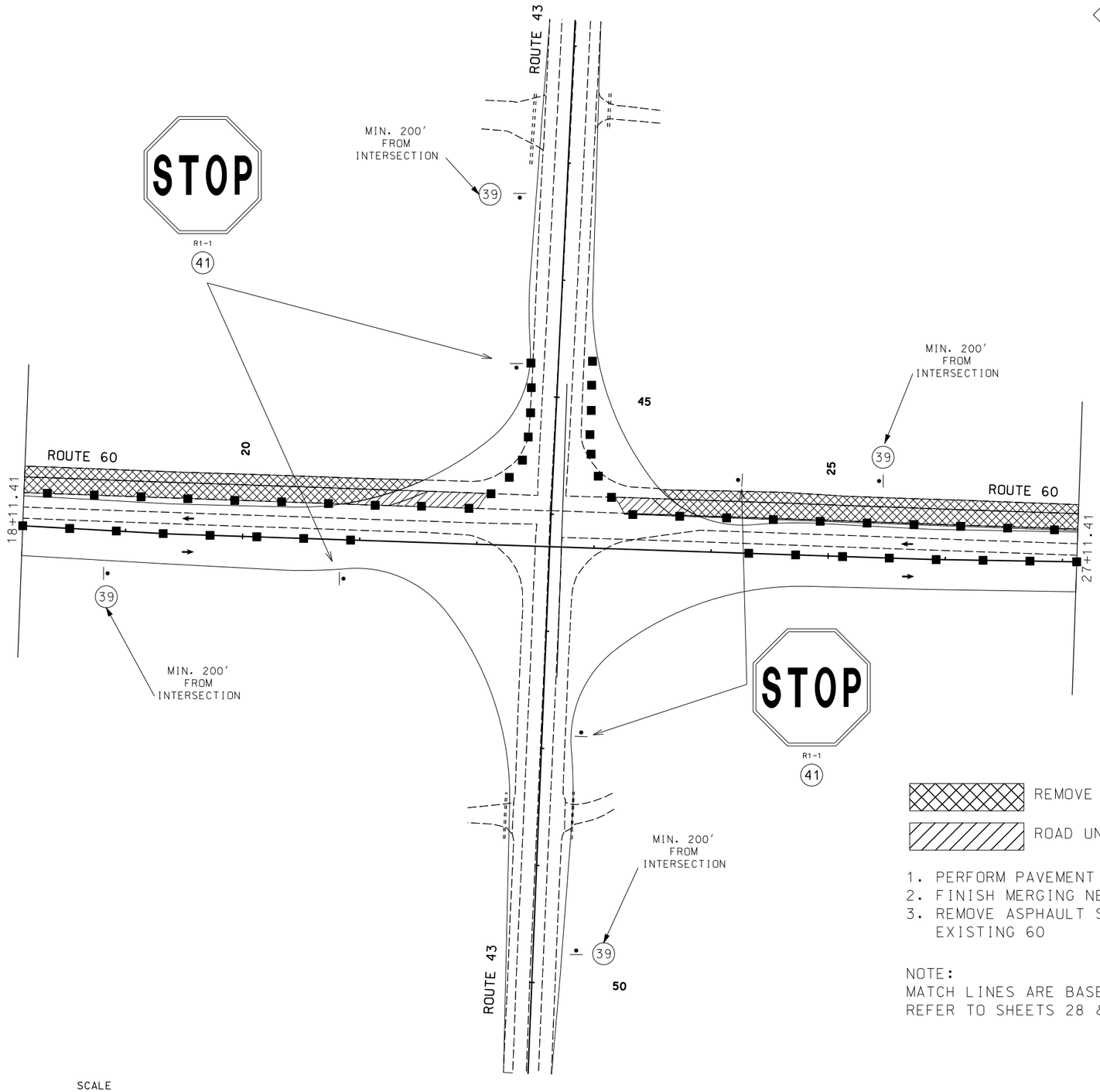
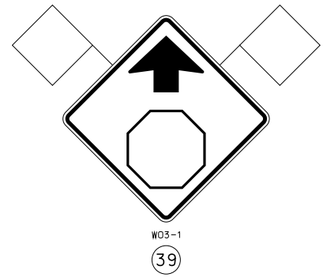




REMOVE ASPHAULT SURFACE

ROAD UNDER CONSTRUCTION

1. PERFORM PAVEMENT & SHOULDER CONSTRUCTION
2. FINISH MERGING NEW 60 TO EXISTING 60
3. REMOVE ASPHAULT SURFACE FROM REMAINING EXISTING 60

NOTE:
MATCH LINES ARE BASED ON EXISTING 60
REFER TO SHEETS 28 & 30

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD

SCALE
0 50 100 150

TRAFFIC CONTROL
STAGE 3
SHEET 9 OF 13

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/8/2016

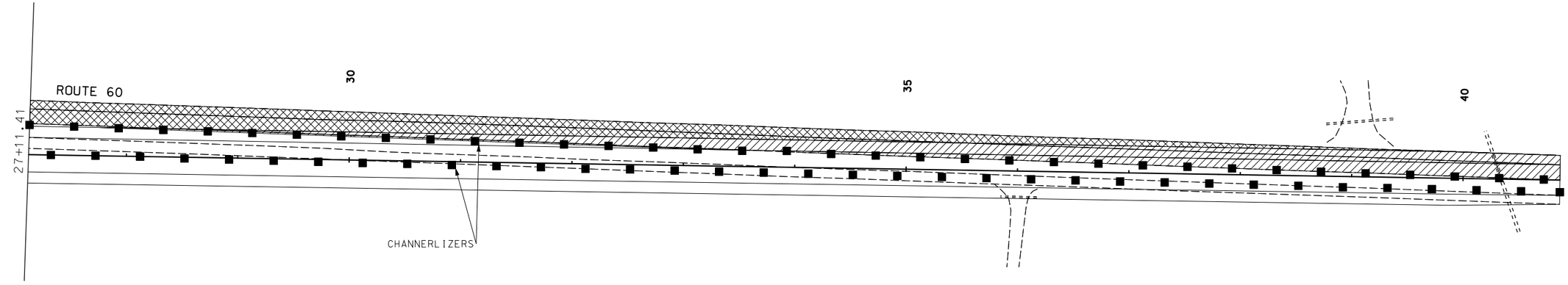
ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	29

COUNTY: NEWTON
JOB NO.: J7P3086
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



REMOVE ASPHAULT SURFACE

ROAD UNDER CONSTRUCTION

1. PERFORM PAVEMENT & SHOULDER CONSTRUCTION
2. FINISH MERGING NEW 60 TO EXISTING 60
3. REMOVE ASPHAULT SURFACE FROM REMAINING EXISTING 60

NOTE:
MATCH LINES ARE BASED ON EXISTING 60
REFER TO SHEET 29

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD

SCALE
0 50 100 150

TRAFFIC CONTROL
STAGE 3
SHEET 10 OF 13

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	30

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

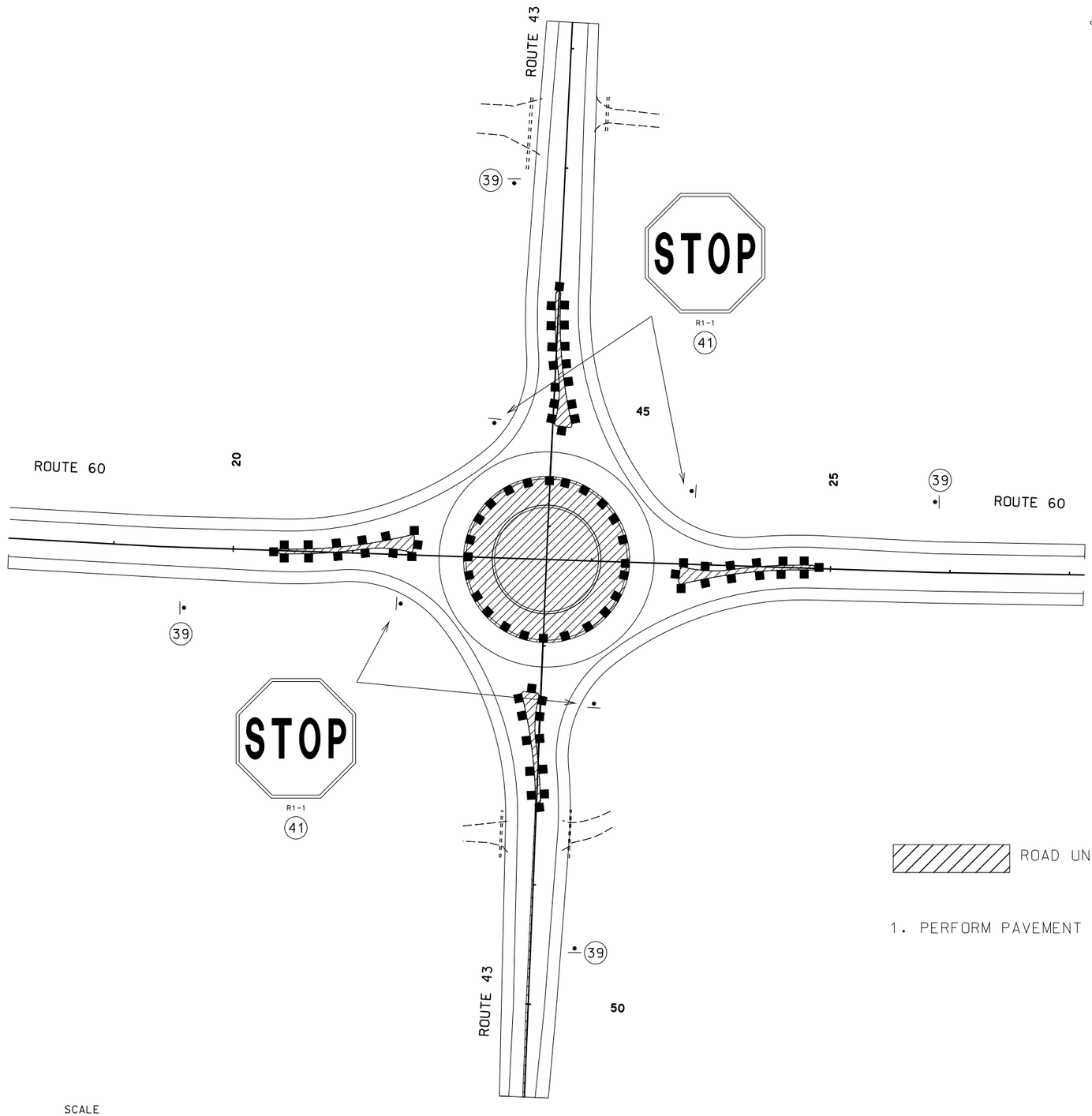
BRIDGE NO.

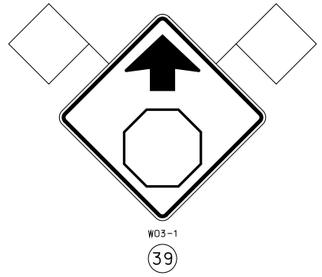
DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)







ROAD UNDER CONSTRUCTION

1. PERFORM PAVEMENT CONSTRUCTION

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER
- BARRICADE
- CHANGEABLE MESSAGE BOARD

SCALE

0 50 100 150

TRAFFIC CONTROL
STAGE 4
SHEET 11 OF 13

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	31

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

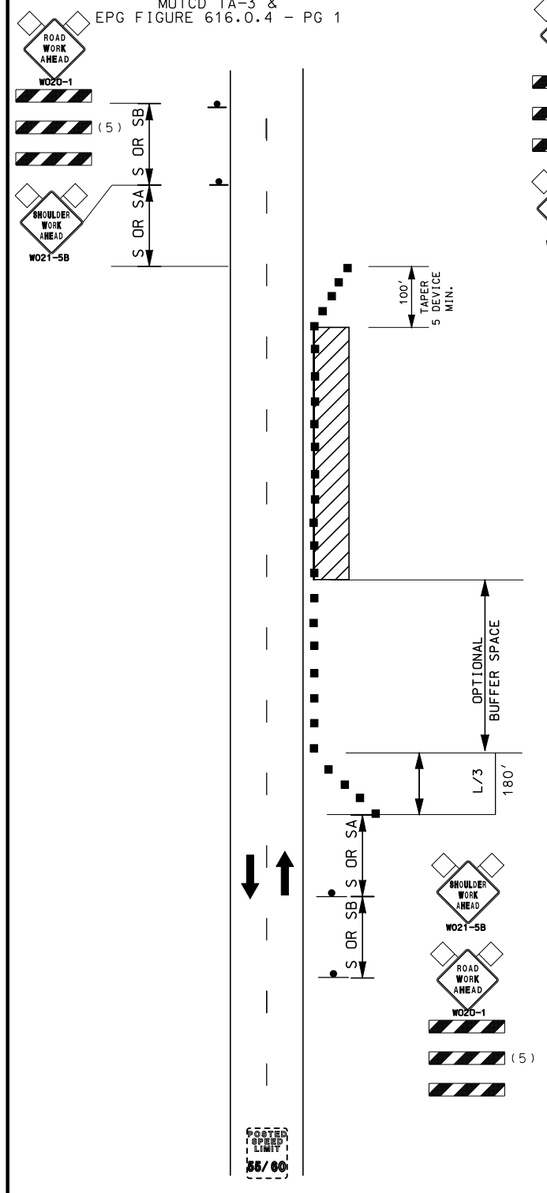
DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

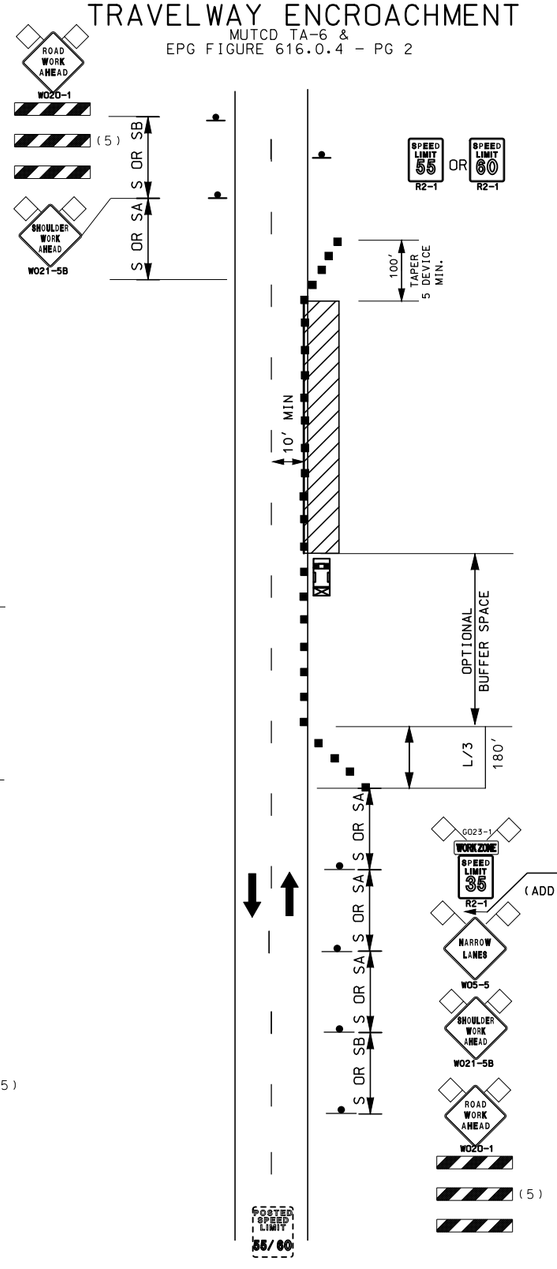
SHOULDER WORK WITH NO TRAVELWAY ENCROACHMENT

MUTCD TA-3 &
EPG FIGURE 616.0.4 – PG 1



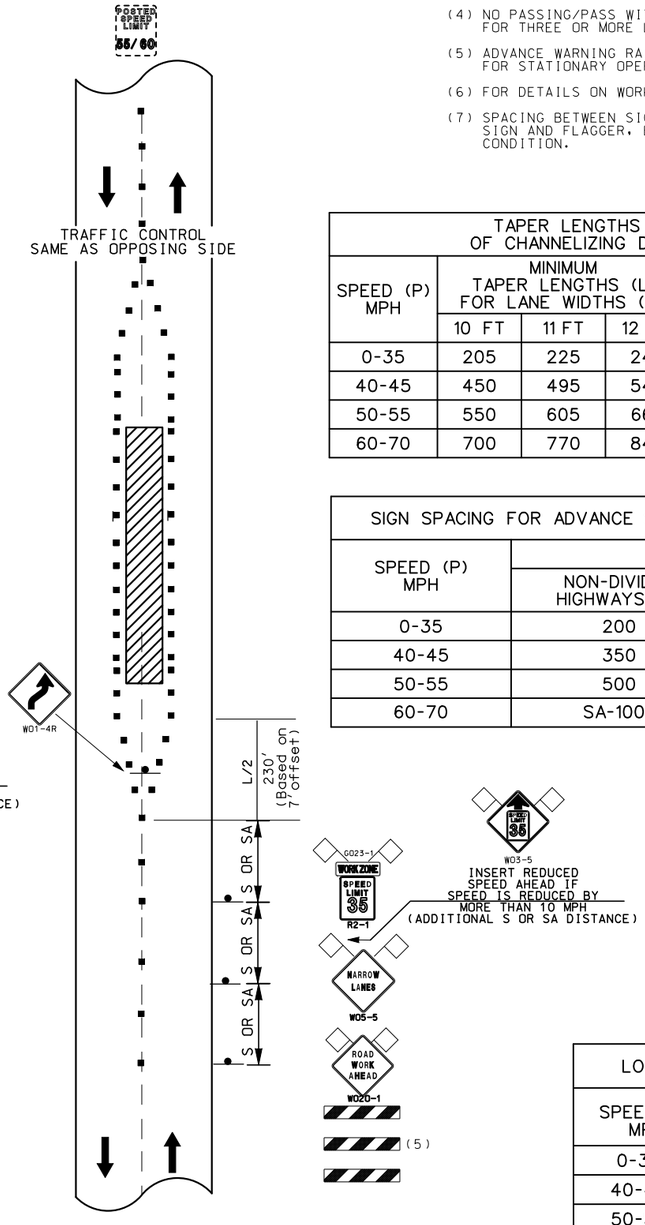
SHOULDER WORK WITH MINOR TRAVELWAY ENCROACHMENT

MUTCD TA-6 &
EPG FIGURE 616.0.4 – PG 2



WORK IN CENTER OF ROAD

MUTCD TA-15



(1) ALL SIGNS ON THESE SHEET ARE PORTABLE

(2) SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

(3) TAPER LENGTHS SHOWN INCLUDE LENGTH REQUIRED FOR LANE AND 10' SHOULDER.

(4) NO PASSING/PASS WITH CARE MAY BE OMITTED FOR THREE OR MORE LANE SECTIONS

(5) ADVANCE WARNING RAIL SYSTEM MAY BE OMITTED FOR STATIONARY OPERATIONS OF LESS THAN THREE DAYS.

(6) FOR DETAILS ON WORK ZONE FINE SIGN SEE EPG 616.29.1

(7) SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION.

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES IN FEET					
SPEED (P) MPH	MINIMUM TAPER LENGTHS (L) FOR LANE WIDTHS (W)			MAXIMUM CHANNELIZER SPACING	
	10 FT	11 FT	12 FT	THROUGH TAPER	THROUGH WORK AREA
0-35	205	225	245	35	50
40-45	450	495	540	40	100
50-55	550	605	660	50	100
60-70	700	770	840	60	100

SIGN SPACING FOR ADVANCE SIGN SERIES IN FEET (1) (2)		
SPEED (P) MPH	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200	200
40-45	350	500
50-55	500	1000
60-70	SA-1000, SB-1500, SC-2640 **	

LONGITUDINAL BUFFER SPACE	
SPEED (P) MPH	BUFFER SPACE (FEET)
0-35	250
40-45	360
50-55	495
60-70	730

LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CONE
- CHANNELIZER(TRIM-LINE)
- BARRICADE
- FLASHING ARROW PANEL
- OPTIONAL – ATTENUATOR TRUCK WITH FLASHING ARROW PANEL IN CAUTION MODE W/ 150' ROLL AHEAD SPACE

TRAFFIC CONTROL
SHEET 12 OF 13

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/8/2016
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. 32
COUNTY NEWTON
JOB NO. J7P3086
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

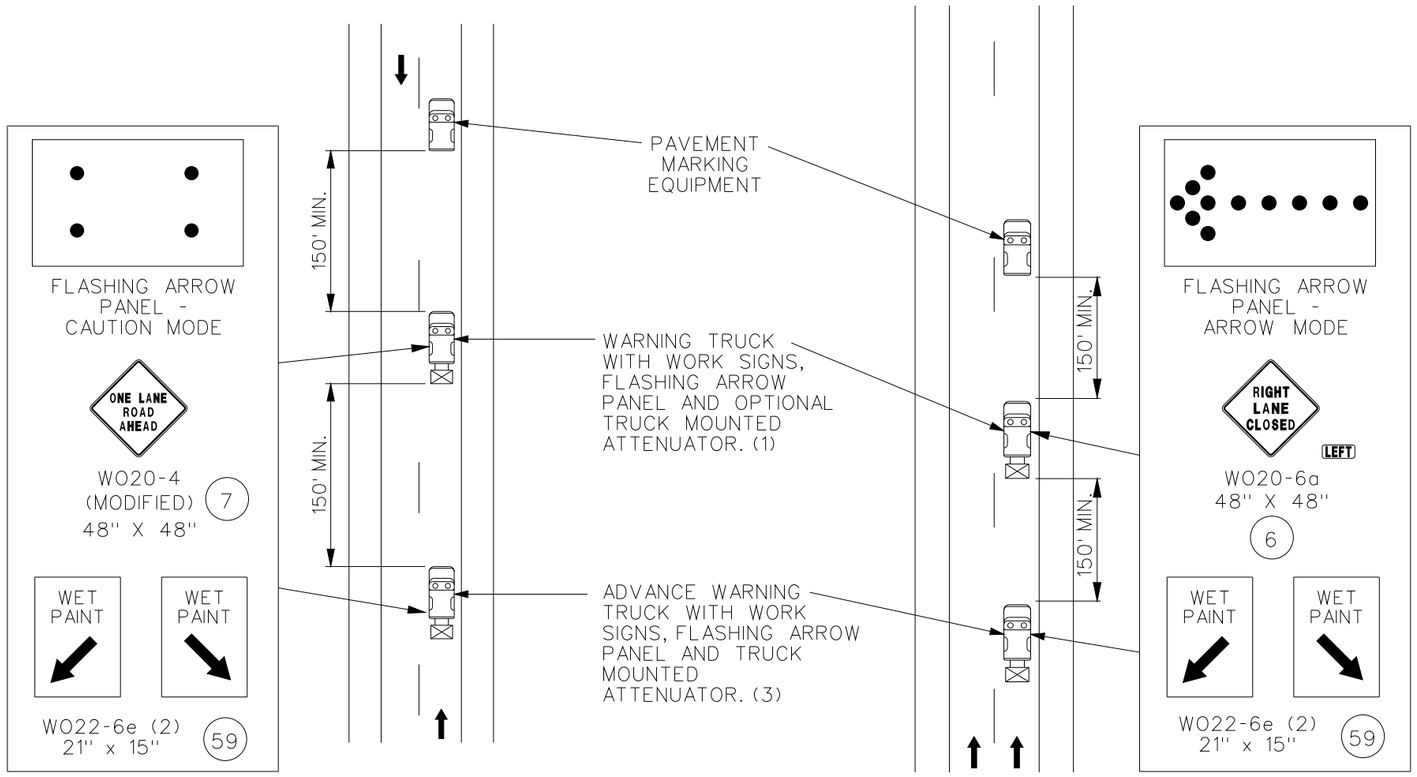
NOTES:

ALL SIGNS HAVE TYPE 3 FLUORESCENT ORANGE REFLECTIVE SHEETING.

(1) TRUCK IS OPTIONAL ON TWO-LANE UNDIVIDED HIGHWAYS IF SIGNING AND ARROW BOARD IS MOUNTED ON THE PAVEMENT MARKING EQUIPMENT.

(2) WET PAINT SIGNS ARE INSTALLED TO INDICATE THE SIDE IN WHICH THE PAVEMENT MARKING MATERIAL IS BEING APPLIED. AT THE CONTRACTOR'S OPTION, A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT MARKING EQUIPMENT.

(3) ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL OR SPACING SHOWN, WHICHEVER IS GREATER.



TWO-LANE UNDIVIDED HIGHWAY

MULTI-LANE DIVIDED HIGHWAY

TRAFFIC CONTROL MOVING OPERATION

TRAFFIC CONTROL
SHEET 13 OF 13

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	33

COUNTY: NEWTON

JOB NO.: J7P3086

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE | REV.

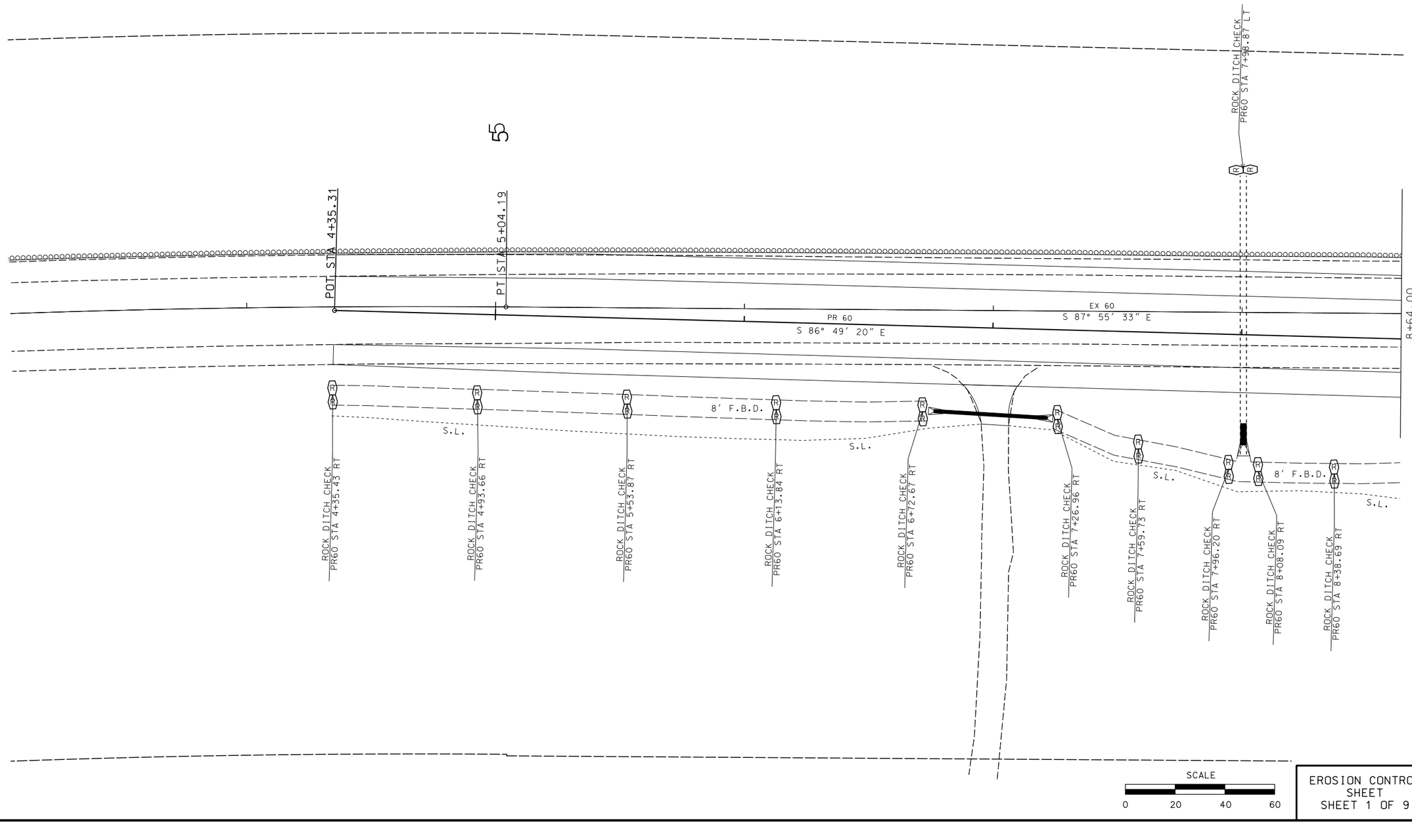
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TEMPORARY EROSION CONTROL LEGEND

ROCK DITCH CHECK

SILT FENCE



EROSION CONTROL SHEET
SHEET 1 OF 9

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	3/8/2016
ROUTE	60
STATE	MO
DISTRICT	SW
SHEET NO.	34
COUNTY	NEWTON
JOB NO.	J7P3086
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TEMPORARY EROSION CONTROL LEGEND

(R) ROCK DITCH CHECK

SILT FENCE

1010

8+64.00

EX 60
S 87° 55' 33" E

PR 60
S 86° 49' 20" E

POT1 STA 13+04.00

EQUATION:
Sta 13+04.45 Bk =
Sta 13+04.00 Ahd

14+23.00

8' F.B.D.

S.L.

ROCK DITCH CHECK PR60 STA 8+73.39 RT

ROCK DITCH CHECK PR60 STA 9+16.42 RT

ROCK DITCH CHECK PR60 STA 9+59.86 RT

ROCK DITCH CHECK PR60 STA 10+07.39 RT

ROCK DITCH CHECK PR60 STA 10+58.29 RT

ROCK DITCH CHECK PR60 STA 11+02.81 RT

ROCK DITCH CHECK PR60 STA 11+56.50 RT

ROCK DITCH CHECK PR60 STA 11+98.26 RT

ROCK DITCH CHECK PR60 STA 12+41.88 RT

ROCK DITCH CHECK PR60 STA 12+90.16 RT

ROCK DITCH CHECK PR60 STA 13+39.82 RT

ROCK DITCH CHECK PR60 STA 13+87.65 RT

PP

SCALE
0 20 40 60

EROSION CONTROL SHEET
SHEET 2 OF 9

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	35

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

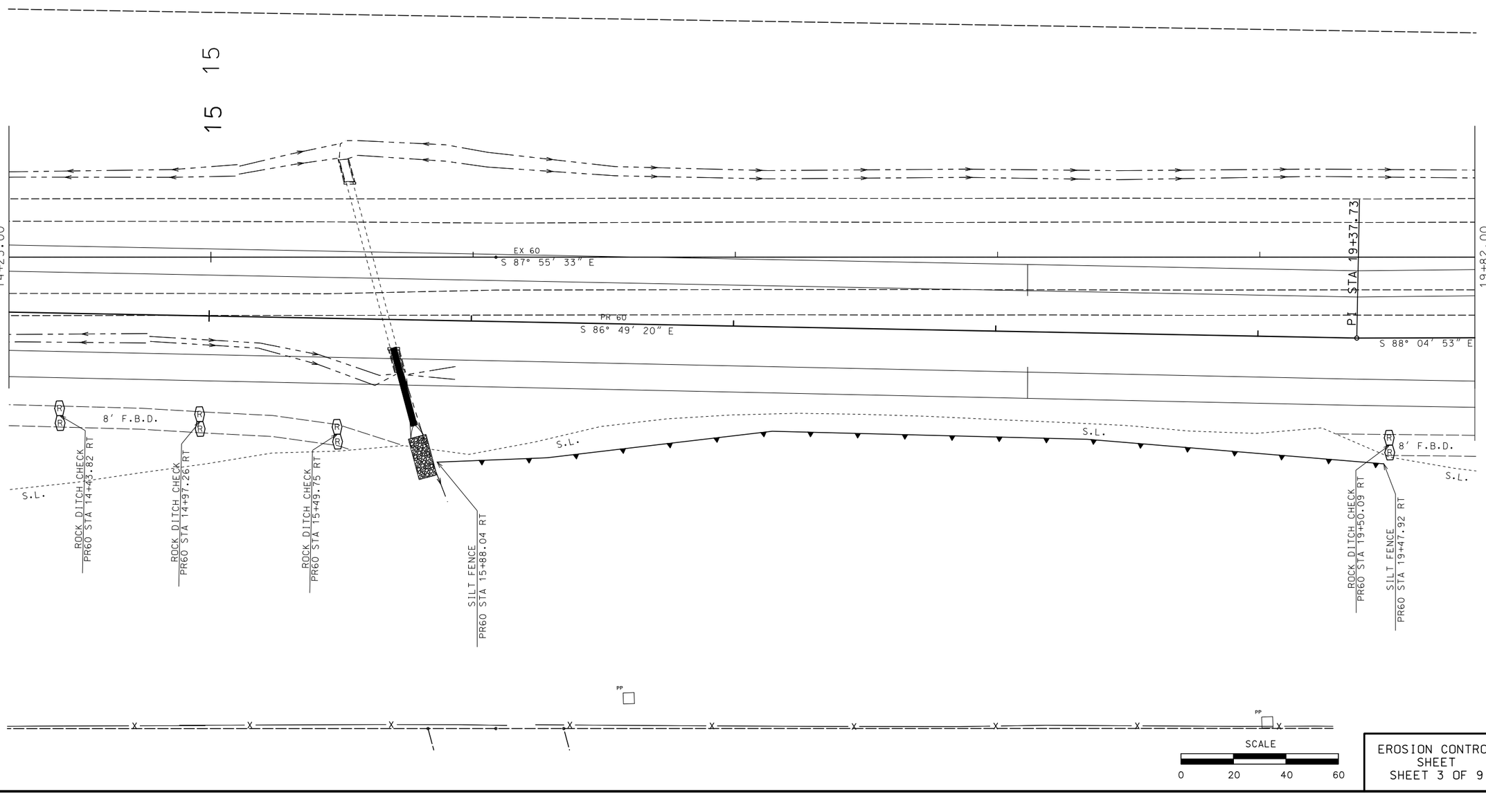
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TEMPORARY EROSION CONTROL LEGEND

(R) ROCK DITCH CHECK

SILT FENCE



EROSION CONTROL SHEET
SHEET 3 OF 9

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	36

COUNTY: NEWTON

JOB NO.: J7P3086

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

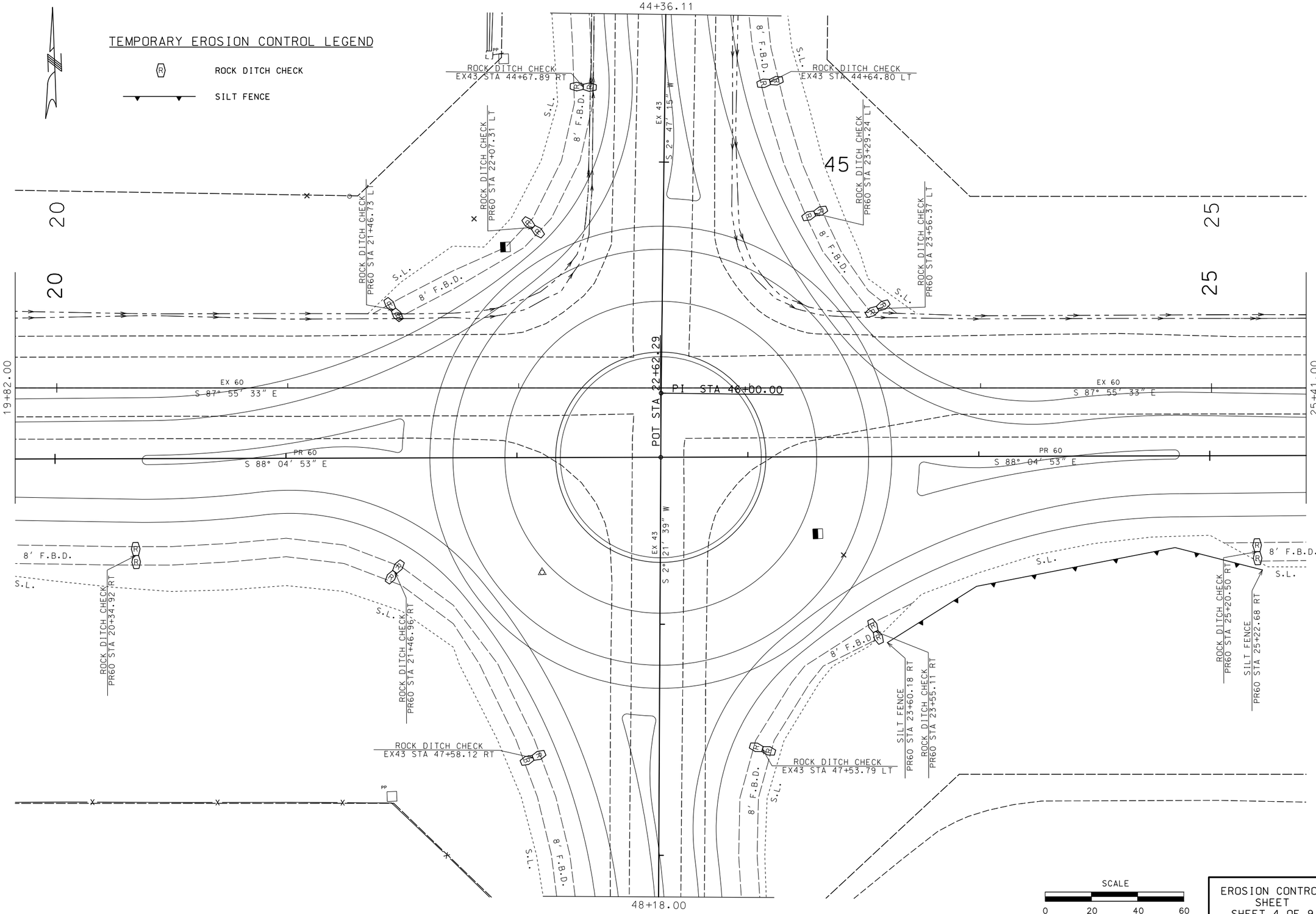
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TEMPORARY EROSION CONTROL LEGEND

(R) ROCK DITCH CHECK

SILT FENCE



SCALE

0 20 40 60

EROSION CONTROL SHEET
SHEET 4 OF 9

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	37

COUNTY NEWTON

JOB NO. J7P3086

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

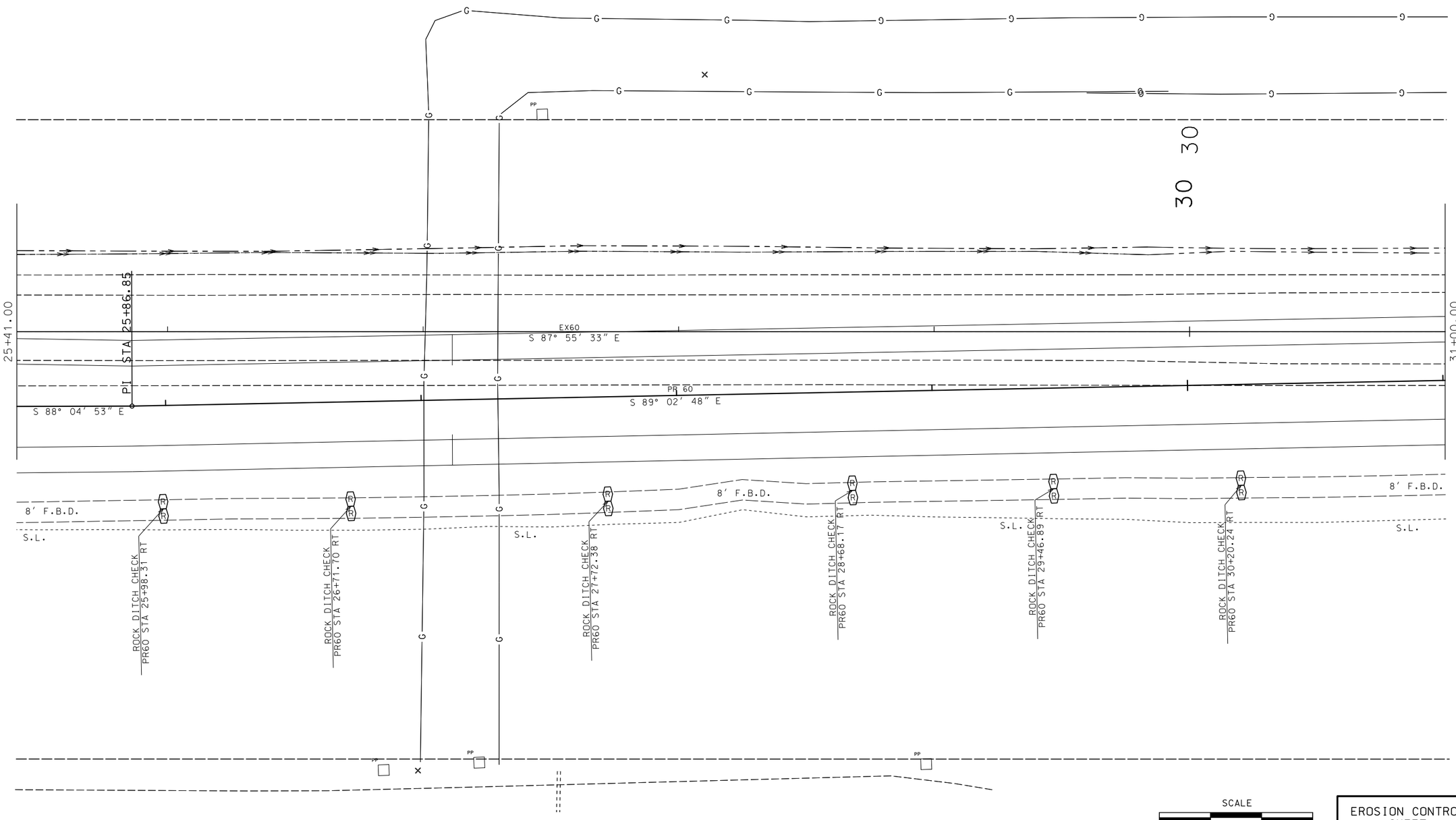
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

TEMPORARY EROSION CONTROL LEGEND

- ROCK DITCH CHECK
- SILT FENCE



SCALE
0 20 40 60

EROSION CONTROL SHEET
SHEET 5 OF 9

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	3/8/2016
ROUTE	60
STATE	MO
DISTRICT	SW
SHEET NO.	38
COUNTY	NEWTON
JOB NO.	J7P3086
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

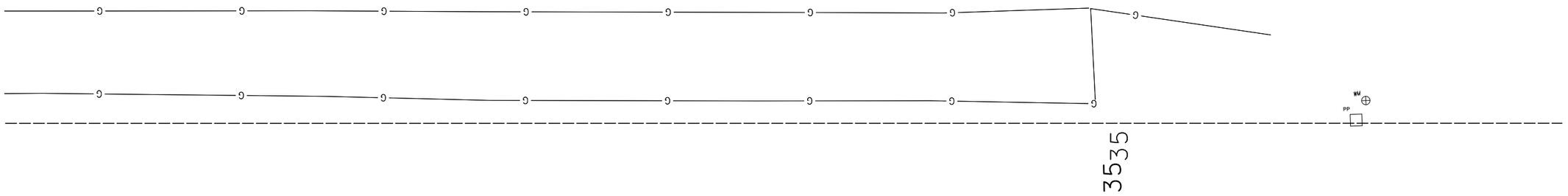
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

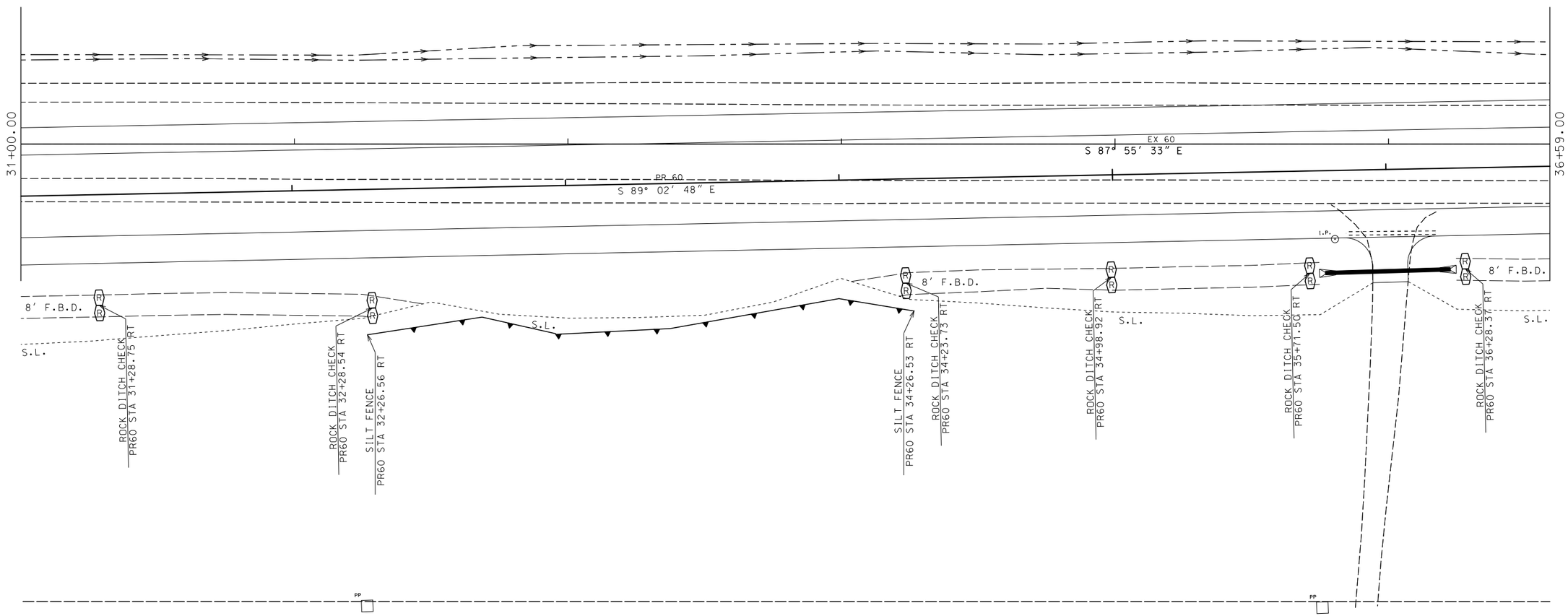
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TEMPORARY EROSION CONTROL LEGEND

(R) ROCK DITCH CHECK

SILT FENCE





SCALE

0 20 40 60

EROSION CONTROL SHEET
SHEET 6 OF 9

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	39

COUNTY NEWTON

JOB NO. J7P3086

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

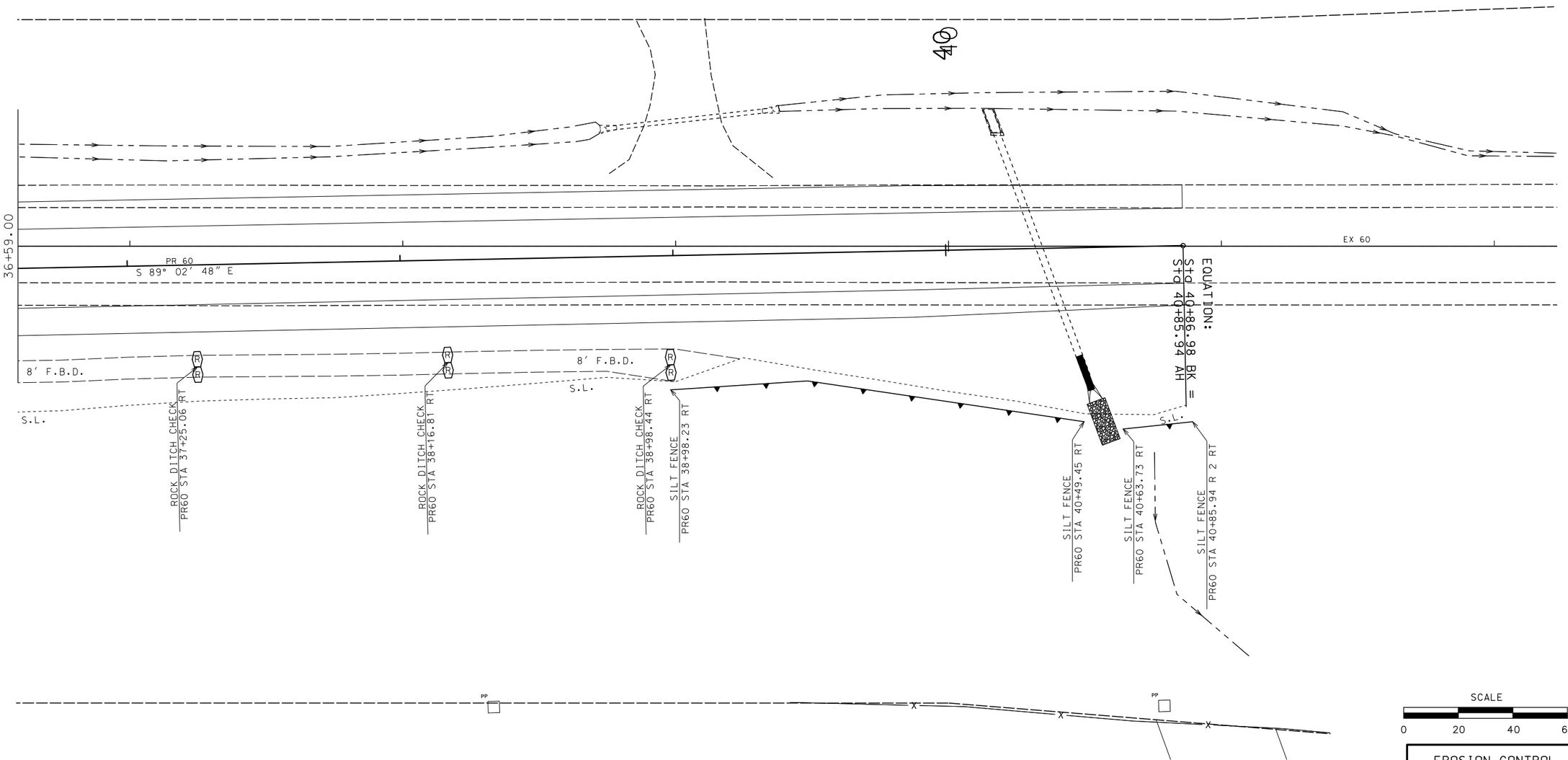
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

TEMPORARY EROSION CONTROL LEGEND

(R) ROCK DITCH CHECK

SILT FENCE



SCALE

0 20 40 60

EROSION CONTROL SHEET
SHEET 7 OF 9

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/8/2016

ROUTE	STATE
60	MO

DISTRICT	SHEET NO.
SW	40

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

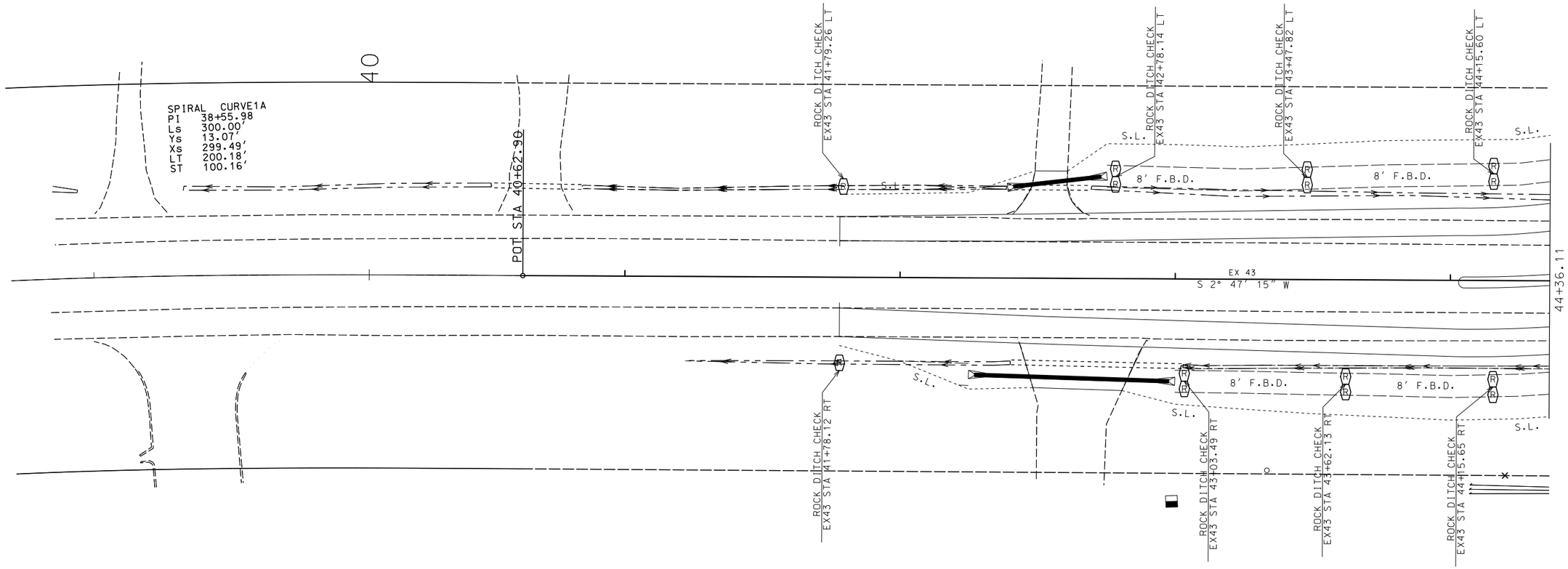
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TEMPORARY EROSION CONTROL LEGEND

ROCK DITCH CHECK

SILT FENCE



SCALE

0 20 40 60

EROSION CONTROL SHEET
SHEET 8 OF 9

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	41

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

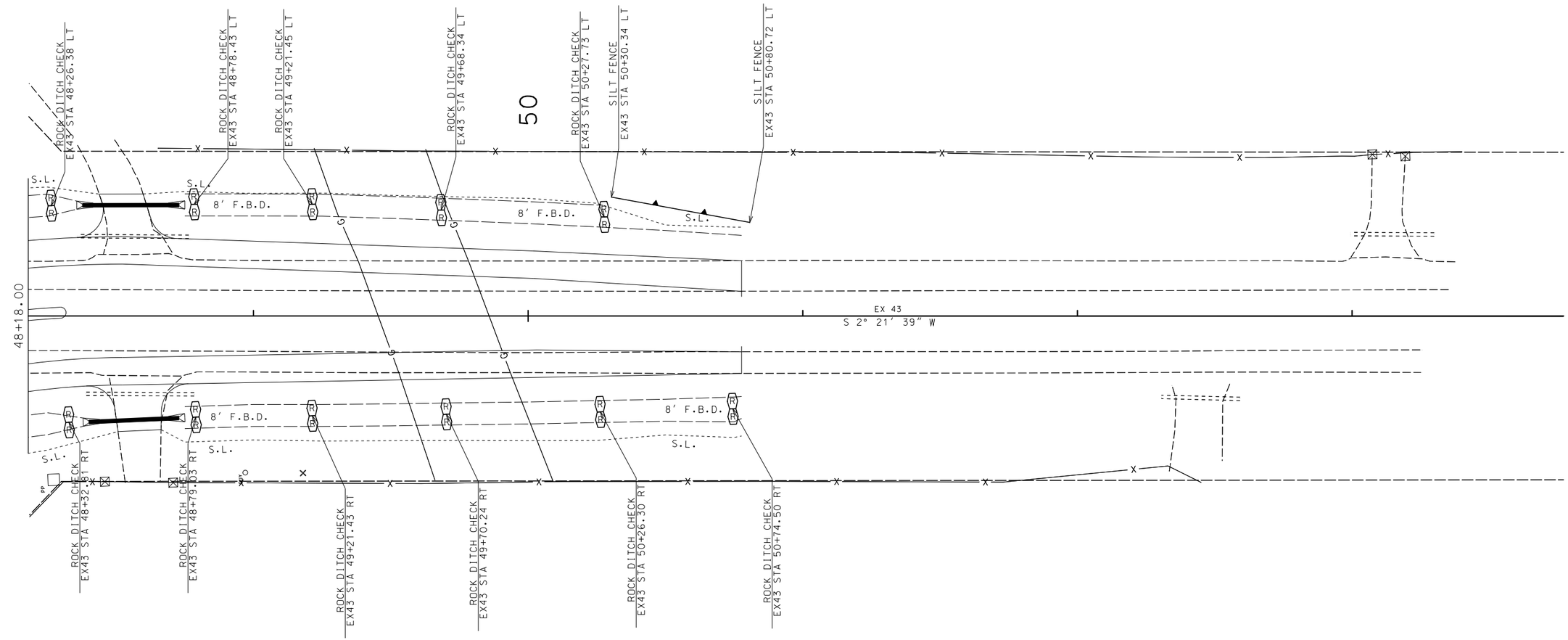
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TEMPORARY EROSION CONTROL LEGEND

(R) ROCK DITCH CHECK

SILT FENCE



SCALE

0 20 40 60

EROSION CONTROL SHEET
SHEET 9 OF 9

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	42

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

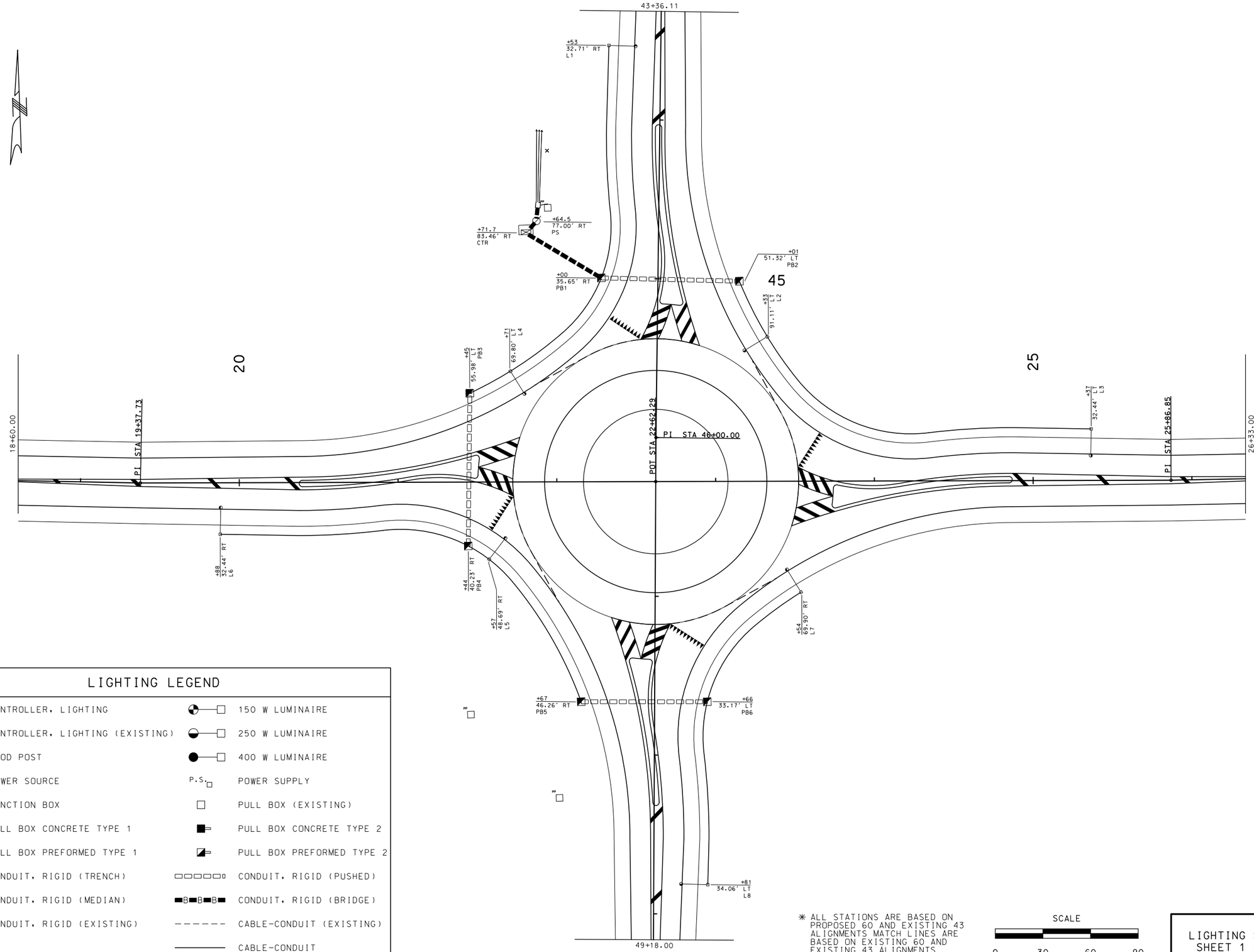
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



LIGHTING LEGEND

	CONTROLLER, LIGHTING		150 W LUMINAIRE
	CONTROLLER, LIGHTING (EXISTING)		250 W LUMINAIRE
	WOOD POST		400 W LUMINAIRE
	POWER SOURCE	P.S.	POWER SUPPLY
JCT	JUNCTION BOX		PULL BOX (EXISTING)
	PULL BOX CONCRETE TYPE 1		PULL BOX CONCRETE TYPE 2
	PULL BOX PREFORMED TYPE 1		PULL BOX PREFORMED TYPE 2
	CONDUIT, RIGID (TRENCH)		CONDUIT, RIGID (PUSHED)
M	CONDUIT, RIGID (MEDIAN)	B	CONDUIT, RIGID (BRIDGE)
	CONDUIT, RIGID (EXISTING)		CABLE-CONDUIT (EXISTING)
			CABLE-CONDUIT

* ALL STATIONS ARE BASED ON PROPOSED 60 AND EXISTING 43 ALIGNMENTS MATCH LINES ARE BASED ON EXISTING 60 AND EXISTING 43 ALIGNMENTS

SCALE
0 30 60 90

LIGHTING SHEET
SHEET 1 OF 2

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	3/8/2016
ROUTE	60
STATE	MO
DISTRICT	SW
SHEET NO.	43
COUNTY	NEWTON
JOB NO.	J7P3086
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

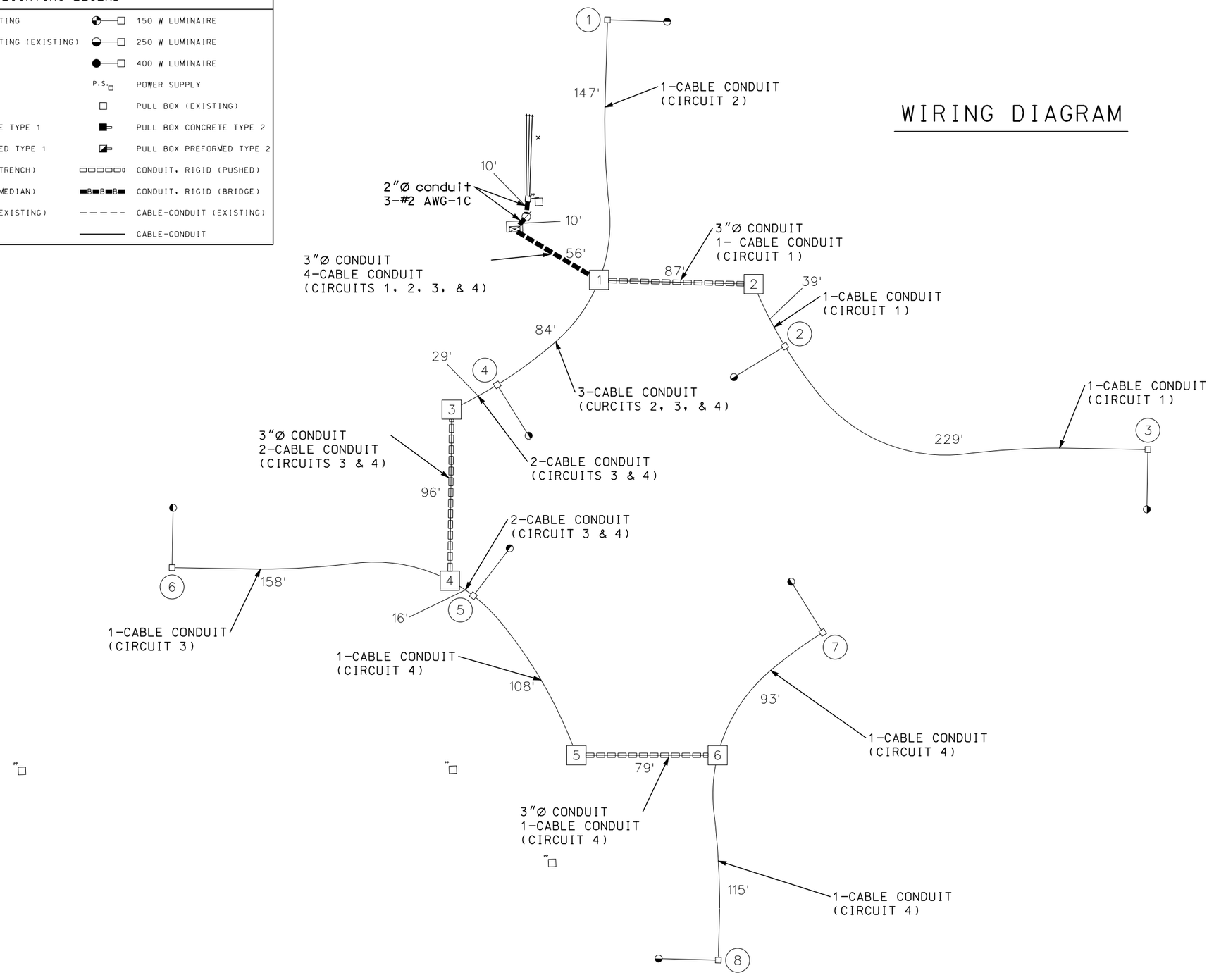
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LIGHTING LEGEND

	CONTROLLER, LIGHTING		150 W LUMINAIRE
	CONTROLLER, LIGHTING (EXISTING)		250 W LUMINAIRE
○	WOOD POST		400 W LUMINAIRE
⌀	POWER SOURCE	P.S.	POWER SUPPLY
JCT	JUNCTION BOX	□	PULL BOX (EXISTING)
■	PULL BOX CONCRETE TYPE 1	■	PULL BOX CONCRETE TYPE 2
◪	PULL BOX PREFORMED TYPE 1	◪	PULL BOX PREFORMED TYPE 2
	CONDUIT, RIGID (TRENCH)		CONDUIT, RIGID (PUSHED)
	CONDUIT, RIGID (MEDIAN)		CONDUIT, RIGID (BRIDGE)
	CONDUIT, RIGID (EXISTING)		CABLE-CONDUIT (EXISTING)
			CABLE-CONDUIT

WIRING DIAGRAM



STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

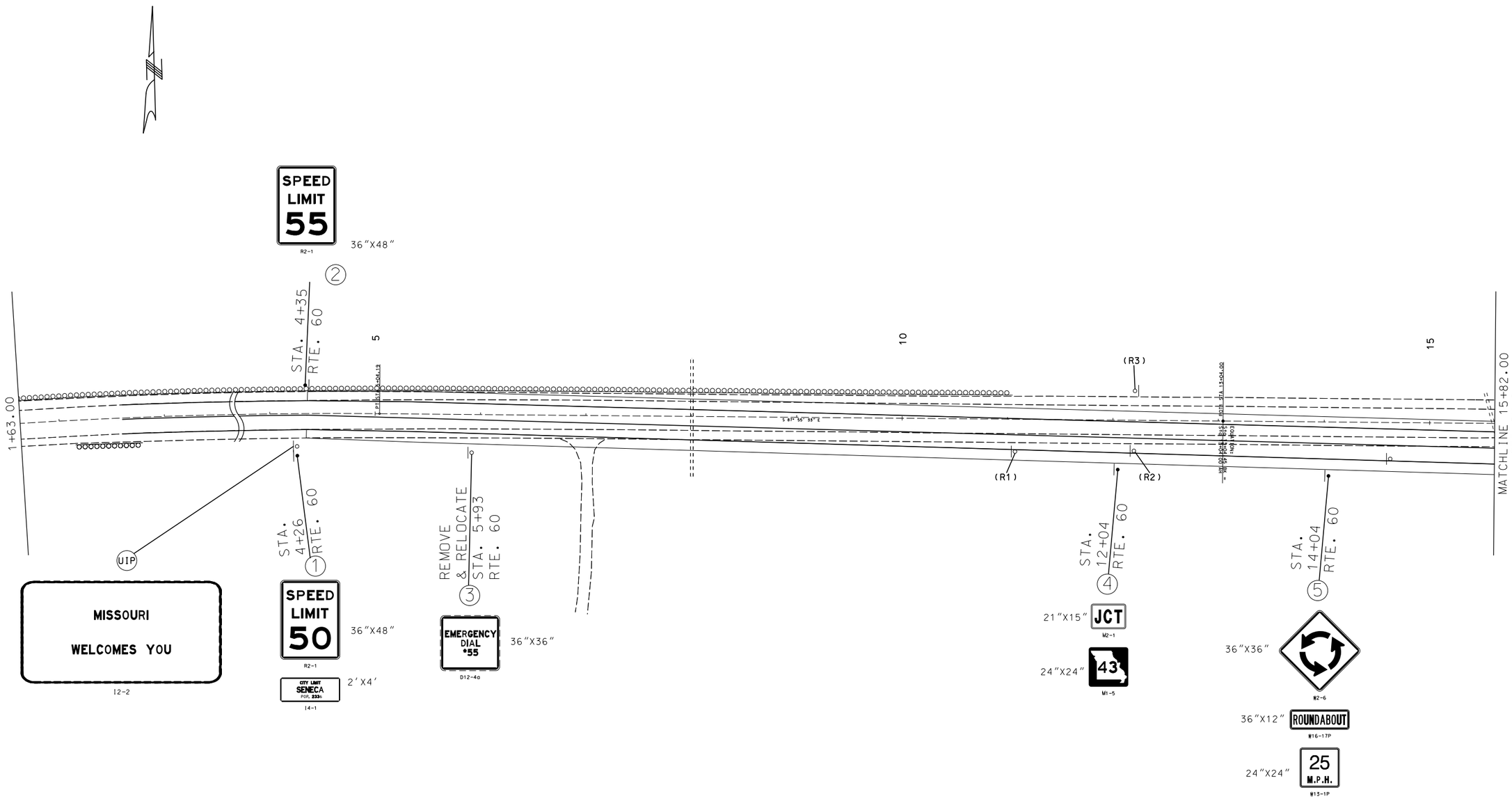
DATE PREPARED	3/8/2016
ROUTE	60
STATE	MO
DISTRICT	SW
SHEET NO.	44
COUNTY	NEWTON
JOB NO.	J7P3086
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

LIGHTING SHEET
SHEET 2 OF 2



* ALL STATIONS ARE BASED ON PROPOSED 60 ALIGNMENTS UNLESS OTHERWISE NOTED MATCH LINES ARE BASED ON EXISTING 60 ALIGNMENTS

SCALE

0 50 100 150

SIGNING SHEET
SHEET 1 OF 12

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

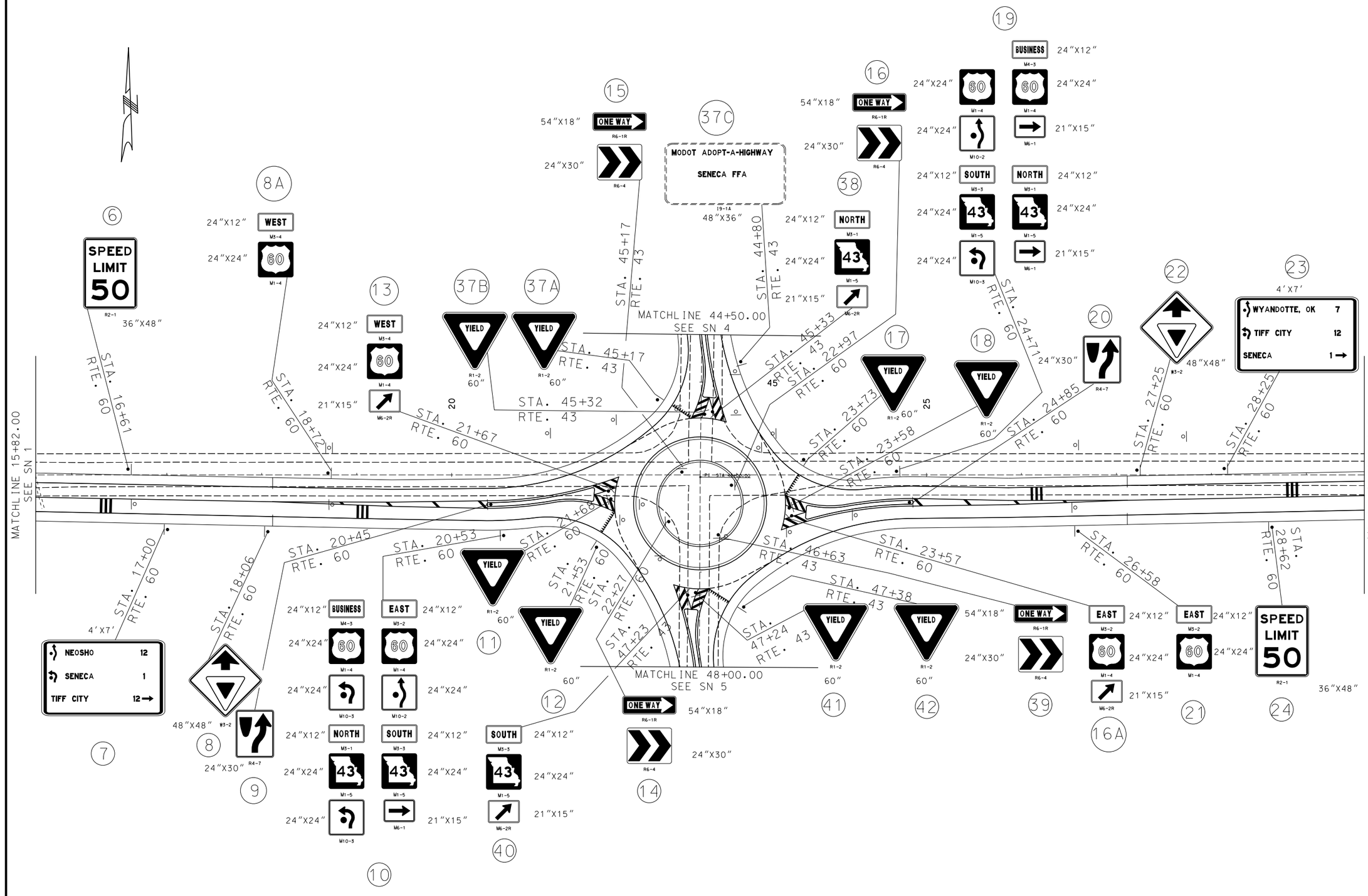
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/8/2016	
ROUTE 60	STATE MO
DISTRICT SW	SHEET NO. 45
COUNTY NEWTON	
JOB NO. J7P3086	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



* ALL STATIONS ARE BASED ON PROPOSED 60 AND EXISTING 43 ALIGNMENTS MATCH LINES ARE BASED ON EXISTING 60 AND 43 ALIGNMENTS

SCALE
0 50 100 150

SIGNING SHEET
SHEET 2 OF 12

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	46

COUNTY NEWTON
JOB NO. J7P3086
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MATCHLINE 29+81.00
SEE SN 2

25

11'X8'

TRUCKS
TO AVOID
STEEP GRADE
ON 43 NORTH
TO 60 WEST
3/4 MILE

STA. 30+25
RTE. 60

26

36"X36"
W2-6

ROUNDABOUT
W16-17P
36"X12"

25
M.P.H.
W13-1P
24"X24"

STA. 34+15
RTE. 60

27

JCT
M2-1
21"X15"

BUSINESS
M4-3
24"X12"

24"X24"
43
M1-5

60
M1-4
24"X24"

STA. 36+15
RTE. 60

29

36"X48"
SPEED
LIMIT
50
R2-1

STA. 40+86
RTE. 60

43+80.00

STA. 37+25
RTE. 60

3'X7'

NEOSHO	12
SPRINGFIELD	82
SIKESTON	313

28

STA. 40+86
RTE. 60

SPEED
LIMIT
60
R2-1
36"X48"

30

* ALL STATIONS ARE BASED ON PROPOSED 60 ALIGNMENTS
MATCH LINES ARE BASED ON EXISTING 60 ALIGNMENTS

SCALE
0 50 100 150

SIGNING SHEET
SHEET 3 OF 12

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	47

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

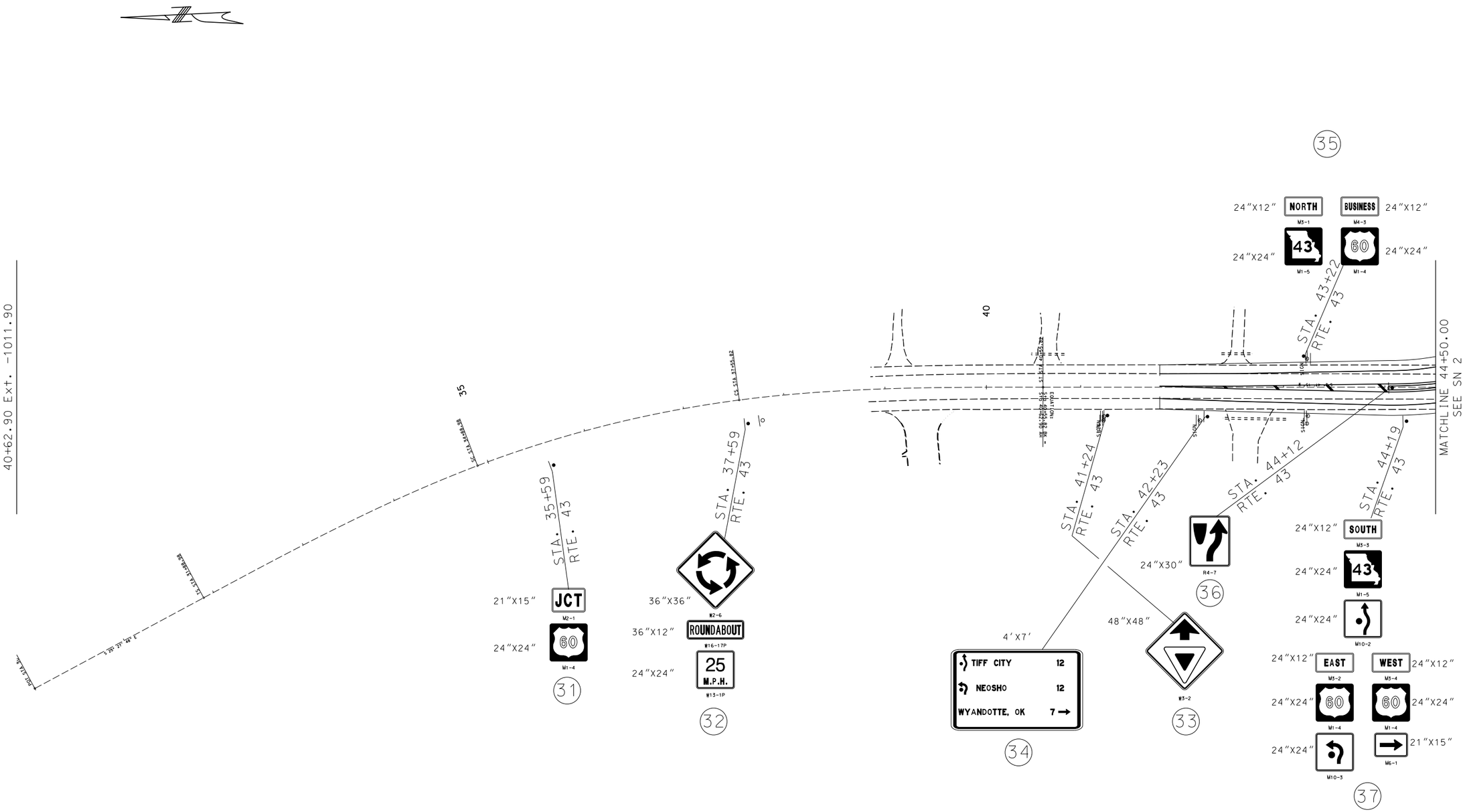
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



* ALL STATIONS ARE BASED ON PROPOSED 60 ALIGNMENTS
MATCH LINES ARE BASED ON EXISTING 60 ALIGNMENTS

SCALE
0 50 100 150

SIGNING SHEET
SHEET 4 OF 12

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/8/2016	
ROUTE 60	STATE MO
DISTRICT SW	SHEET NO. 48
COUNTY NEWTON	
JOB NO. J7P3086	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

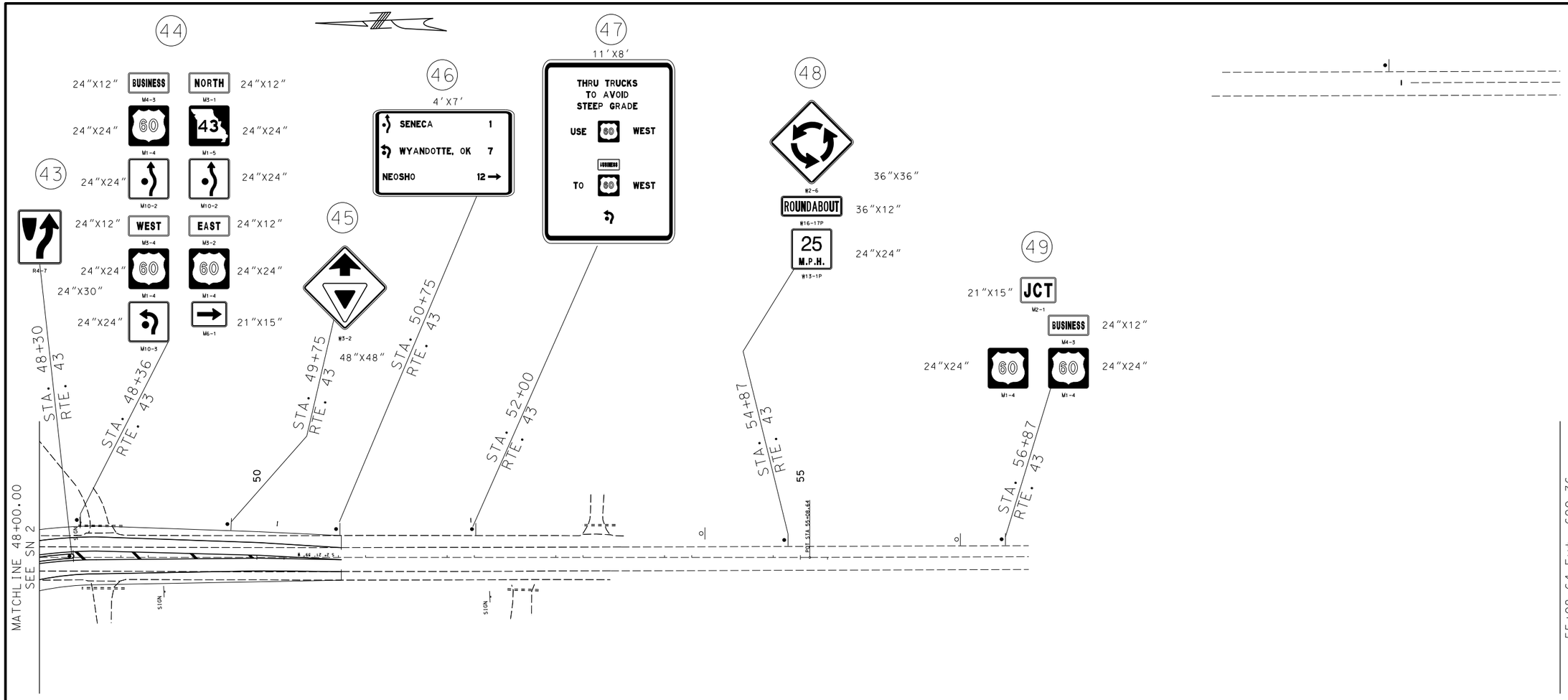
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



* ALL STATIONS ARE BASED ON PROPOSED 60 ALIGNMENTS MATCH LINES ARE BASED ON EXISTING 60 ALIGNMENTS

SCALE
0 50 100 150

SIGNING SHEET
SHEET 5 OF 12

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	49

COUNTY NEWTON
JOB NO. J7P3086
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

EFFECTIVE 01-01-2003

✳ RELOCATE EXISTING SIGN

SIGNS					PIPE POST					STRUCTURAL STEEL POSTS						BACKING BARS 2" X 3/8" BARS @ 2.55 LBS PER LIN FT				TOTAL ITEM NO. 903-12.10	BREAKAWAY ASSEMBLY ITEM NO. 903-12.40	WOOD POSTS			PERF. STEEL SQ.		BREAKAWAY ASSEMBLY ITEM NO. 903-12.41	CONC FTG'S EMBD ITEM NO. 903-10.10	CONC FTG'S BOLT DOWN ITEM NO. 903-10.20	HORZ CLEAR IF NOT STD	DELINEATORS, MILEPOSTS, CONDUIT, CONDUCTOR CABLE, TRENCHING AND BACKFILLING. CONTROL STATION, PULL BOXES AND OTHER REQUIRED ITEMS.
SIGN NO.	STATION	SIGN DTL. SHT. NO.	LOCATION	SIGN SIZE	PIPE SIZE	POST NO. 1	POST NO. 2	LBS PER FT	TOTAL ITEM NO. 903-12.20	POST DES NO.	POST NO. 1	POST NO. 2	POST NO. 3	LBS PER FT	TOTAL	NO. EACH	LGTH IN.	TOTAL LIN FT	TOTAL LBS			4"X4" ITEM NO. 903-12.60	4"X6" ITEM NO. 903-12.61	6"X6" ITEM NO. 903-12.62	POSTS ITEM NO. 903-12.72	ANCHOR SLEEVE ITEM NO. 903-12.73				
					IN.	LIN FT	LIN FT		LBS		LIN FT	LIN FT	LIN FT		LBS						EACH	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	EACH	CU YDS	CU YDS		
1	4+26	SN1	60 RT.	36"X48"																					16.00	3.25		0.09			
2	4+35	SN1	60 LT.	36"X48"																					16.00	3.25		0.09			
✳3	5+93	SN1	60 RT.	36"X36"																					16.00	3.25		0.09			
4	12+04	SN1	60 RT.	ASSEMBLY																					16.00	3.25		0.09			
5	14+04	SN1	60 RT.	ASSEMBLY																					16.00	3.25		0.09			
6	16+61	SN2	60 LT.	36"X48"																					16.00	3.25		0.09			
7	17+00	SN2	60 RT.	4'X7'						1	17'-9"	18'-0"		9	321.75						2							0.34			
8	18+06	SN2	60 RT.	48"X48"												2	17	2.83	7.2						16.00	3.25		0.09			
8A	18+72	SN2	60 LT.	ASSEMBLY																					16.00	3.25		0.09			
9	20+45	SN2	MEDIAN	24"X30"																					16.00	3.25	1	0.09			
10	20+53	SN2	60 RT.	ASSEMBLY	4	26'-3"		10.79	283.24							12	50	50	127.5		1							0.36			
11	21+68	SN2	MEDIAN	60"												2	17	2.83	7.2						16.00	3.25	1	0.09			
12	21+53	SN2	60 RT.	60"												2	17	2.83	7.2						16.00	3.25	1	0.09			
13	21+67	SN2	MEDIAN	ASSEMBLY																					16.00	3.25	1	0.09			
14	22+27	SN2	MEDIAN	ASSEMBLY																					32.00	6.5	2	0.18			
15	45+17	SN2	43 RT.	ASSEMBLY																					32.00	6.5	2	0.18			
16	22+97	SN2	MEDIAN	ASSEMBLY																					32.00	6.5	2	0.18			
16A	23+57	SN2	MEDIAN	ASSEMBLY																					16.00	3.25	1	0.09			
17	23+73	SN2	60 LT.	60"												2	17	2.83	7.2						16.00	3.25	1	0.09			
18	23+58	SN2	MEDIAN	60"												2	17	2.83	7.2						16.00	3.25	1	0.09			
19	24+71	SN2	60 LT.	ASSEMBLY	4	26'-3"		10.79	283.24							12	50	50	127.5		1							0.36			
20	24+85	SN2	MEDIAN	24"X30"																					16.00	3.25	1	0.09			
21	26+58	SN2	60 RT.	ASSEMBLY																					16.00	3.25		0.09			
22	27+17	SN2	60 LT.	48"X48"												2	17	2.83	7.2						16.00	3.25		0.09			
23	28+25	SN2	60 LT.	4'X7'						1	15'-6"	15'-9"		9	281.25						2							0.34			
24	28+62	SN2	60 RT.	36"X48"																					16.00	3.25		0.09			
25	30+25	SN3	60 LT.	11'X8'						2	23'-9"	24'-0"		15	715.25						2							1.08			
26	34+15	SN3	60 LT.	ASSEMBLY																					16.00	3.25		0.09			
27	36+15	SN3	60 LT.	ASSEMBLY												4	50	16.67	42.5						16.00	3.25		0.09			
28	37+25	SN3	60 RT.	3'X7'						1	16'-9"	14'-6"		9	281.25						2							0.34			
29	40+86	SN3	60 LT.	36"X48"																					16.00	3.25		0.09			
30	40+86	SN3	60 RT.	36"X48"																					16.00	3.25		0.09			
31	35+59	SN4	43 RT.	ASSEMBLY																					16.00	3.25		0.09			
32	37+59	SN4	43 RT.	ASSEMBLY																					16.00	3.25		0.09			
33	41+24	SN4	43 RT.	48"X48"												2	17	2.83	7.2						16.00	3.25		0.09			
34	42+23	SN4	43 RT.	4'X7'						1	17'-6"	17'-3"		9	312.75						2							0.34			
35	43+22	SN4	43 LT.	ASSEMBLY												4	50	16.67	42.5						16.00	3.25		0.09			
36	44+12	SN4	MEDIAN	24"X30"																					16.00	3.25	1	0.09			
37	44+19	SN4	43 RT.	ASSEMBLY	4	26'-3"		10.79	283.24							6	50	25	63.8		1							0.36			
37A	45+17	SN2	43 RT.	60"												2	17	2.83	7.2						16.00	3.25	1	0.09			
37B	45+32	SN2	MEDIAN	60"												2	17	2.83	7.2						16.00	3.25	1	0.09			
✳37C	44+80	SN2	43 LT.	48"X36"																					16.00	3.25	1	0.09			
38	45+33	SN2	MEDIAN	ASSEMBLY																					16.00	3.25	1	0.09			
39	46+63	SN2	MEDIAN	ASSEMBLY																					32.00	6.5	2	0.18			
40	47+23	SN2	MEDIAN	ASSEMBLY																					16.00	3.25	1	0.09			
41	47+24	SN2	MEDIAN	60"												2	17	2.83	7.2						16.00	3.25	1	0.09			
42	47+38	SN2	43 LT.	60"												2	17	2.83	7.2						16.00	3.25	1	0.09			
43	48+30	SN5	MEDIAN	24"X30"																					16.00	3.25	1	0.09			
44	48+36	SN5	43 LT.	ASSEMBLY	4	26'-3"		10.79	283.24							12	50	50	127.5		1							0.36			
45	49+75	SN5	43 LT.	48"X48"												2	17	2.83	7.2						16.00	3.25		0.09			
46	50+75	SN5	43 LT.	4'X7'						1	17'-9"	18'-3"		9	324.0						2							0.34			
47	52+00	SN5	43 LT.	11'X8'						2	24'-9"	26'-3"		15	765.0						2							1.08			
48	54+87	SN5	43 LT.	ASSEMBLY																					16.00	3.25		0.09			
49	56+87	SN5	43 LT.	ASSEMBLY												4	50	16.67	42.5						16.00	3.25		0.09			
✳ SIGNS 3 AND 37C NEW POSTS AND EXIST. SIGNS PAID AS RELOCATED SIGNS																															
				TOTAL					1132.96						3001.25				660.2		18				752	152.75	25	9.53			
				USE					1130						3000				660		18				752	153	25	9.5			

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/8/2016

ROUTE 60 | STATE MO

DISTRICT SW | SHEET NO. 50

COUNTY J7P3086

JOB NO. NEWTON

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

SIGNING SHEET
SHEET 6 OF 12

EFFECTIVE 07-01-2010

✳ RELOCATE EXISTING SIGN

STANDARD SIGN ASSEMBLIES

| SIGN NUMBER | STATION | LOCATION | TYPE | SIGN DESCRIPTION, SIZES & NUMBER OF EACH | | |

EFFECTIVE 07-01-2010

SIGN SUMMARY

STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQUARE FEET								48" STOP	36" STOP
			SIZE	SHR2L-1 ITEM NO. 903-50.04	STR2L-1 ITEM NO. 903-50.64	SHR2L-3 ITEM NO. 903-50.65	STR2L-3 ITEM NO. 903-50.11	SHR4L-1 ITEM NO. 903-50.69	STR4L-1 ITEM NO. 903-50.71	SHR4L-3 ITEM NO. 903-50.70	STR4L-3 ITEM NO. 903-50.72	EACH	EACH
1 CITY LIMITS Seneca POP 2,336	X	1	2′ X 4′	8.0									
7 Neosho 12 / Seneca 1 / Tiff City 12 →	X	1	4′x7′				28.0						
23 Wyandotte 7 / Tiff City 12 / Seneca 1 →	X	1	4′x7′				28.0						
25 TRUCKS TO AVOID STEEP GRADE ON 43 NORTH USE 60 WEST 3/4 MILE		1	11′X8′						88.0				
28 Neosho 12 / Springfield 82 / Sikeston 313	X	1	3′x7′				21.0						
34 Tiff City 12 / Neosho 12 / Wyandotte 7 →		1	4′x7′				28.0						
46 Seneca 1 / Wyandotte 7 / Neosho 12 →		1	4′x7′				28.0						
47 THRU TRUCKS TO AVOID STEEP GRADE USE 60 WEST TO 60 WEST		1	11′X8′						88.0				
14,15,16,39		4	24″x30″	20.0									
4,27,31,49 JCT		4	21″X15″	8.75									
14,15,16,39		4	54″x18″	27.0									
9,20,36,43		4	24″X30″	20.0									
10,19,37,44(2)		5	24″x24″	20.0									
10(2),19,37,44		5	24″x24″	20.0									
5,26,32,48		4	36″X36″	36.0									
5,26,32,48		4	12″X36″	12.0									
10,19,35,38,44 NORTH		5	24″x12″	10.0									
10,19,37,40 SOUTH		4	24″x12″	8.0									
8A,13,37,44 WEST		4	24″x12″	8.0									
10,16A,21,37,44 EAST		5	24″x12″	10.0									
13,16A,38,40		4	21″x15″	8.75									
8,22,33,45		4	48″X48″	16.0									
1,6,24,29 SPEED LIMIT 50		4	36″X48″	48.0									
10,19,27,35,44,49		6	24″X12″	12.0									
30 SPEED LIMIT 60		1	36″x48″	12.0									
2 SPEED LIMIT 35		1	36″X48″	12.0									
5,26,32,48 25 M.P.H.		4	24″x24″	16.0									
8A,10(2),13,16A,19(2),21,27,31 35,37(2),44(3),49(2) 60		18	24″x24″	72.0									
11,12,17,18,37A,37B,41,42		8	60″	86.64									
10,19(2),37,44		5	21″X15″	10.94									
4,10(2),19(2),27,35,37, 38,40,44 43		11	24″x24″	44.0									
TOTAL				546.08			133		176				
TOTAL				546.0			133.0		176.0				

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	52

COUNTY NEWTON

JOB NO. J7P3086

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

SIGNING SHEET
SHEET 8 OF 12

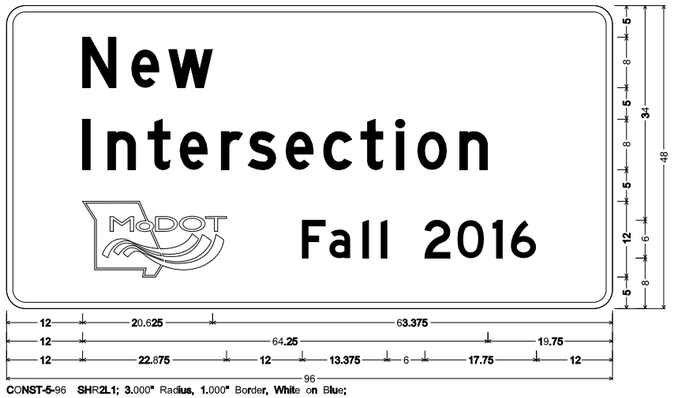
D-30



D1-3d **STR2L3;** 3.000" **Radius,** 1.000" **Border, White on Green;**
[ ] D; [Neosho] E Mod; [12] E Mod; [Seneca] E Mod; [1] E Mod; [Tiff City] E Mod; [12] E Mod;
Standard Arrow Custom 9.000" **X** 6.000" **0°;**
Table of letter and object lefts.

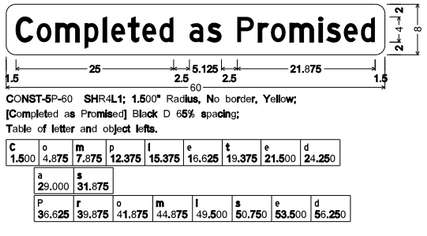
⇧ 7.000	**N** 18.875	**e** 25.625	**o** 30.875	**s** 36.000	**h** 41.625	**o** 47.250	**1** 69.875	**2** 73.125
⇩ 6.000	**S** 18.625	**e** 24.750	**n** 30.500	**e** 36.125	**c** 41.375	**a** 46.500	**1** 76.125	
T 6.000	**1** 12.250	**f** 15.125	**f** 18.875	**C** 27.250	**1** 34.000	**t** 36.750	**y** 41.000	**1** 54.875	**2** 58.125	⇨ 69.000

SIGN: 7
STA 17+00



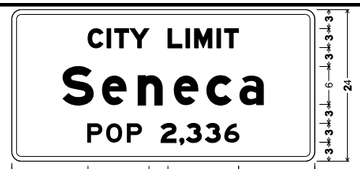
CONST-5-96 SHR2L1; 3.000" **Radius,** 1.000" **Border, White on Blue;**
[New] D; [Intersection] D; [Fall 2016] D;
Table of letter and object lefts.

N 12.000	**e** 19.750	**w** 25.750											
I 12.000	**n** 16.000	**t** 22.375	**e** 27.375	**r** 34.000	**s** 38.250	**e** 44.250	**c** 50.250	**t** 56.125	**I** 61.750	**o** 65.125	**n** 71.750		
w 12.000	**F** 46.875	**a** 51.125	**l** 56.500	**l** 59.375	**2** 66.250	**0** 71.375	**l** 77.000	**6** 79.875					



CONST-5P-60 SHR4L1; 1.500" **Radius, No border, Yellow;**
[Completed as Promised] Black D 65% spacing;
Table of letter and object lefts.

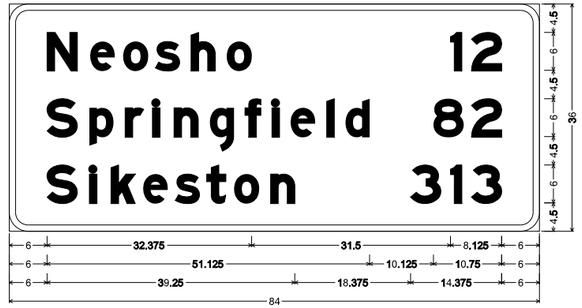
C 1.500	o 4.875	**m** 7.875	p 12.375	**l** 15.375	e 16.625	**t** 19.375	e 21.500	d 24.250	
	a 29.000	**s** 31.875							
P 36.625	**r** 39.875	o 41.875	**m** 44.875	**l** 49.500	**s** 50.750	**53.500**	e 56.250		



I4-1 SHR2L1;
1.500" Radius, 0.750" Border, White on Green;
[CITY LIMIT] E Mod; [Seneca] E Mod; [POP] E Mod;
[2,336] E Mod;
Table of letter and object lefts.

C 12.125	**I** 15.125	**T** 16.250	**Y** 18.750										
	L 24.750	**I** 27.625	**M** 29.000	**I** 32.500	**T** 33.750								
S 8.125	**e** 14.250	**n** 20.000	**e** 25.625	**c** 30.875	**a** 36.125								
P 12.000	**O** 15.000	**P** 18.250											
	2 23.625	26.625	**3** 27.625	**3** 30.625	**6** 33.625								

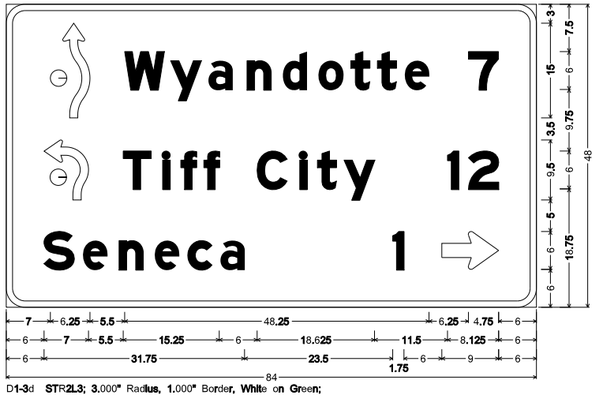
SIGN: 1
STA 4+26



D2-3 STR2L3; 3.000" **Radius,** 1.000" **Border, White on Green;**
[Neosho] E Mod; [12] E Mod; [Springfield] E Mod; [82] E Mod; [Sikeston] E Mod; [313] E Mod;
Table of letter and object lefts.

N 6.000	**e** 12.875	**o** 18.000	**s** 23.125	**h** 28.750	**o** 34.500	**1** 69.875	**2** 73.250												
S 6.000	**p** 12.750	**r** 18.375	**l** 22.625	**h** 26.125	**q** 31.750	**f** 37.375	**l** 41.625	**e** 44.625	**l** 50.250	**d** 53.250	**8** 67.250	**2** 73.250							
S 6.000	**l** 12.750	**k** 16.125	**e** 21.250	**s** 26.250	**t** 31.250	**o** 35.625	**n** 41.375	**3** 63.625	**l** 69.875	**3** 73.250									

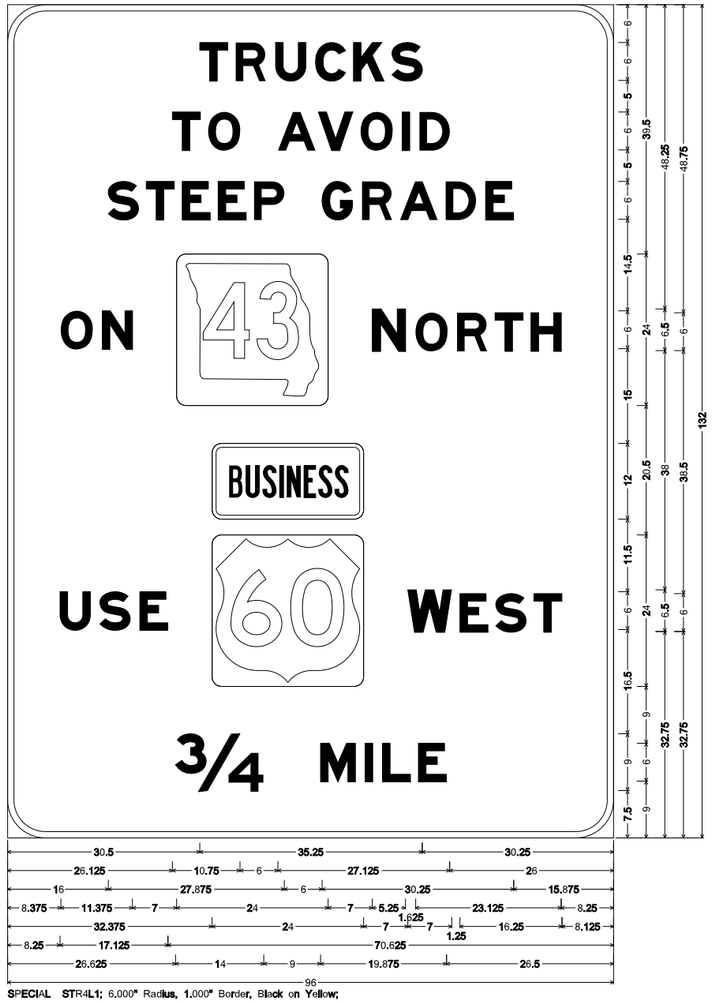
SIGN: 28
STA 37+25



D1-3d **STR2L3;** 3.000" **Radius,** 1.000" **Border, White on Green;**
[ ] D; [Wyandotte] E Mod; [7] E Mod; [Tiff City] E Mod; [12] E Mod; [Seneca] E Mod; [1] E Mod;
Standard Arrow Custom 9.000" **X** 6.000" **0°;**
Table of letter and object lefts.

⇧ 7.000	**W** 18.750	**y** 26.000	a 32.000	**n** 38.125	**d** 43.750	o 49.500	**t** 54.625	**t** 58.750	e 63.125	**7** 73.250		
⇩ 6.000	**T** 18.500	**l** 24.750	**f** 27.625	**f** 31.250	**C** 39.750	**l** 46.500	**t** 49.250	**y** 53.500	**l** 69.875	**2** 73.250		
S 6.000	**e** 12.125	**n** 17.875	**e** 23.500	**c** 28.750	**a** 34.000	**l** 61.250	⇨ 69.000					

SIGN: 23
STA 28+25



SPECIAL STR4L1; 6.000" **Radius,** 1.000" **Border, Black on Yellow;**
[TRUCKS] E Mod; [TO AVOID] E Mod; [STEEP GRADE] E Mod; [ON] E Mod; [NORTH] E Mod; [USE] E Mod;
[ ] White E Mod; [WEST] E Mod; [¾] E Mod; [MILE] E Mod;
Table of letter and object lefts.

T 30.500	R 36.125	**U** 42.500	**C** 48.750	**K** 54.750	**S** 60.875														
T 26.125	**O** 31.750	A 42.875	**V** 49.250	**O** 56.000	**I** 62.500	D 65.250													
S 16.000	**T** 22.000	**E** 27.625	**E** 33.375	P 39.000	**G** 49.875	R 56.125	**A** 62.125	**D** 69.375	**E** 75.750										
O 8.375	**N** 15.000	26.750	**N** 57.750	O 64.625	R 71.250	**T** 77.250	**H** 82.875												
32.375																			
U 8.250	**S** 14.625	**E** 21.000	32.375	**W** 63.375	**E** 71.625	**S** 77.375	**T** 83.375												
¾ 26.625	**M** 49.625	**I** 56.625	**L** 59.375	**E** 65.125															

SIGN: 25
STA 30+25

SIGN DETAIL SHEET
SHEET 9 OF 12

D-31

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	53

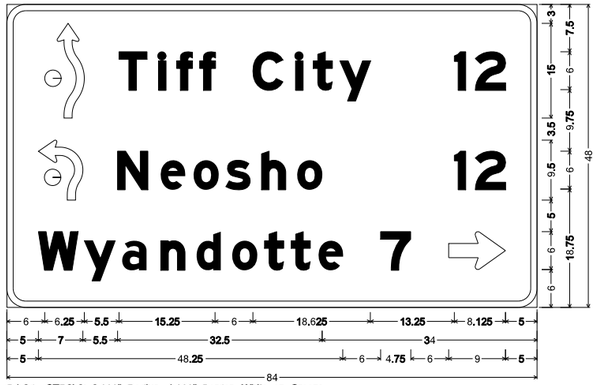
COUNTY NEWTON
JOB NO. J7P3086
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

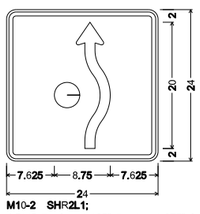
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



D1-3d STR2L3; 3.000" Radius, 1.000" Border, White on Green;
[ ] D; [Tiff City] E Mod; [12] E Mod; [Neosho] E Mod; [12] E Mod; [Wyandotte] E Mod; [7] E Mod;
Standard Arrow Custom 9.000" X 6.000" 0°;
Table of letter and object lefts.

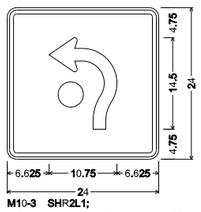
6.000	T 17.750	I 24.000	f 26.875	f 30.500	C 39.000	I 45.750	t 48.500	y 52.750	1 70.875	2 74.250
5.000	N 17.500	e 24.375	o 29.625	s 34.750	h 40.375	o 46.000	1 70.875	2 74.250		
W 5.000	y 12.250	a 18.250	h 24.375	d 30.000	o 35.750	t 40.875	t 45.000	e 49.375	7 59.250	⇨ 70.000

SIGN: 34
STA 42+23



M10-2 SHR2L1;
1.500" Radius, 0.625" Border, 0.375" Indent, Black on White;
Table of letter and object lefts.

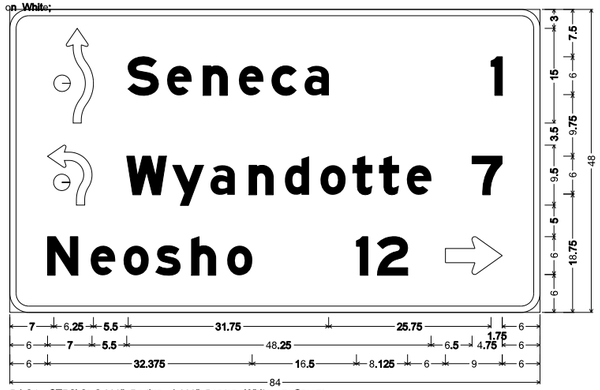
7.625



M10-3 SHR2L1;
1.500" Radius, 0.625" Border, 0.375" Indent, Black on White;
Table of letter and object lefts.

6.625

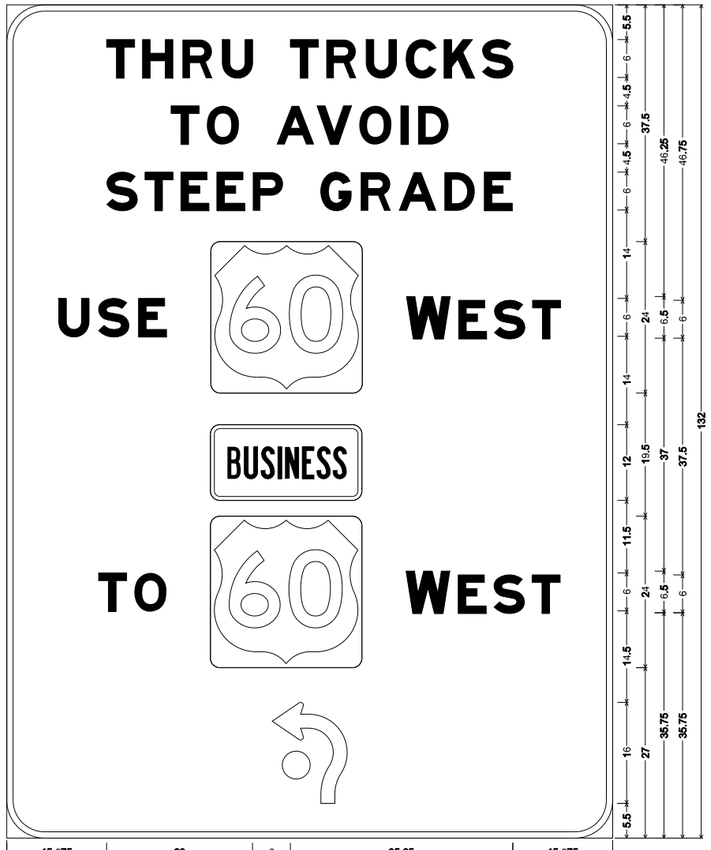
SIGNS: 10,19,37,44



D1-3d STR2L3; 3.000" Radius, 1.000" Border, White on Green;
[ ] D; [Seneca] E Mod; [1] E Mod; [Wyandotte] E Mod; [7] E Mod; [Neosho] E Mod; [12] E Mod;
Standard Arrow Custom 9.000" X 6.000" 0°;
Table of letter and object lefts.

7.000	S 18.750	e 24.875	n 30.625	e 36.250	c 41.500	a 46.750	l 76.250				
6.000	W 18.500	y 25.750	a 31.750	h 37.875	d 43.625	o 49.250	t 54.375	t 58.625	e 62.875	7 73.250	
N 6.000	e 12.875	o 18.000	s 23.125	h 28.750	o 34.500	l 54.875	2 58.250	⇨ 69.000			

SIGN: 46
STA 50+75



SPECIAL STR4L1; 6.000" Radius, 1.000" Border, Black on Yellow;
[THRU TRUCKS] E Mod; [TO AVOID] E Mod; [STEEP GRADE] E Mod; [USE] E Mod; [WEST] E Mod; [TO] E Mod;
[ ] White E Mod; [WEST] E Mod;
Table of letter and object lefts.

T 15.875	H 21.500	R 27.875	U 34.125	T 44.875	R 50.625	U 57.000	C 63.250	K 69.250	S 75.375	
T 26.000	O 31.750	A 42.750	V 49.125	O 55.875	I 62.500	D 65.125				
S 15.875	T 21.875	E 27.625	E 33.250	P 39.000	G 49.750	R 56.125	A 62.125	D 69.375	E 75.625	
U 8.250	S 14.500	E 20.875	60 32.375	W 63.375	E 71.625	S 77.250	T 83.250			
60 32.250										
T 14.500	O 20.250	60 32.250	W 63.250	E 71.500	S 77.250	T 83.250				
42.125										

SIGN: 47
STA 52+00

SIGN DETAIL SHEET
SHEET 10 OF 12

D-31

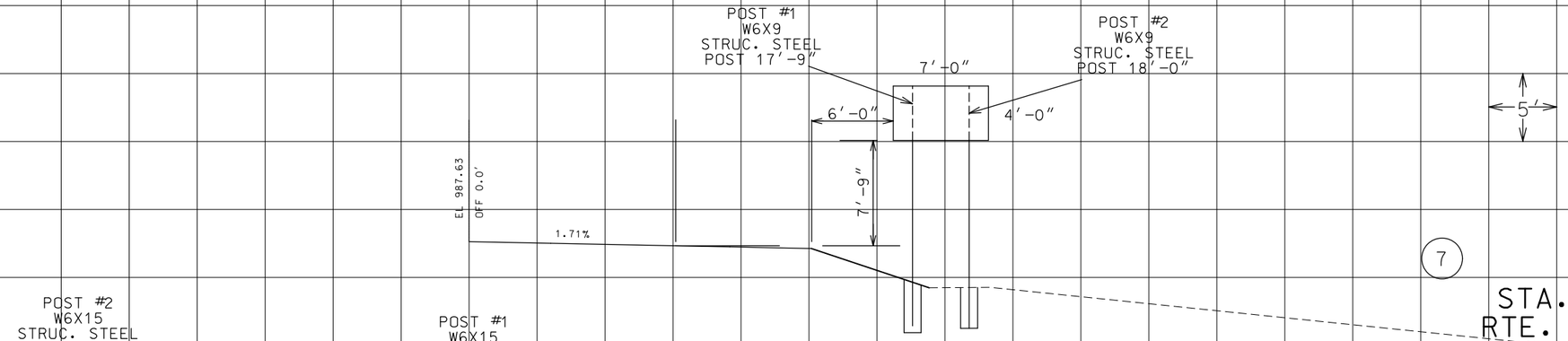
STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/8/2016
ROUTE 60 | STATE MO
DISTRICT SW | SHEET NO. 54
COUNTY NEWTON
JOB NO. J7P3086
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

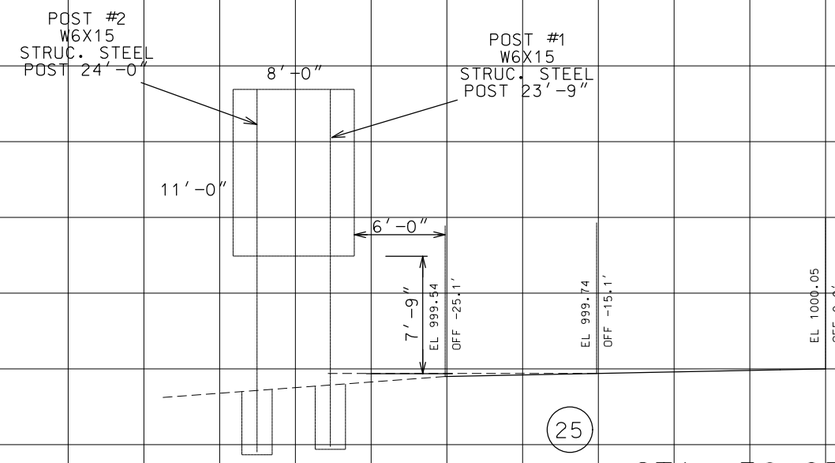
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



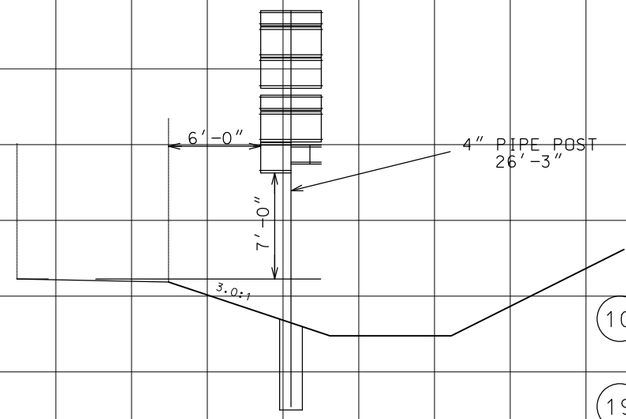
7

STA. 17+00
RTE. 60 RT.

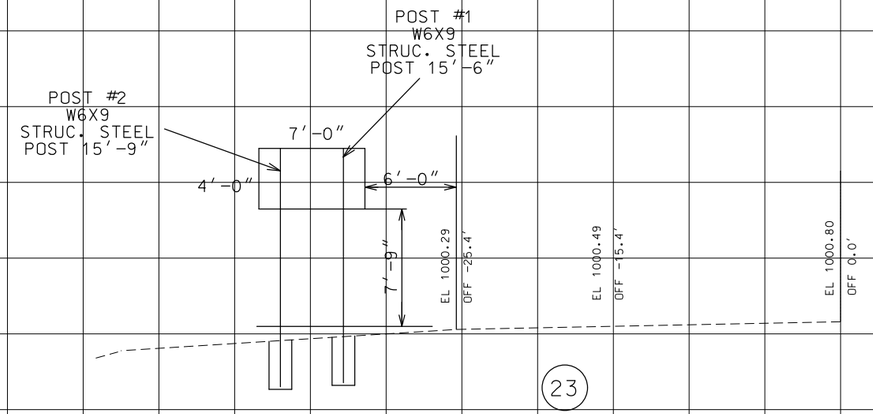


25

STA. 30+25
RTE. 60 LT.



TYPICAL DETAIL
FOR THE NUMBERED
ASSEMBLY SIGNS SHOWN



23

STA. 28+25
RTE. 60 LT.

10 STA. 20+53
RTE. 60 RT.

19 STA. 24+71
RTE. 60 LT.

37 STA. 44+19
RTE. 43 RT.

44 STA. 48+36
RTE. 43 LT.

SIGNING SHEET
SHEET 11 OF 12

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	55

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

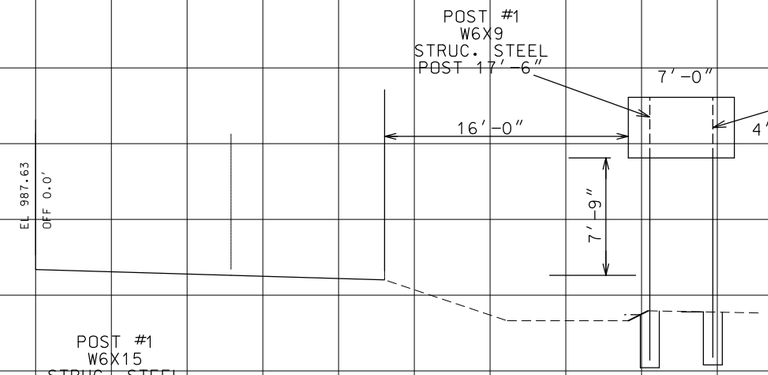
DATE	DESCRIPTION

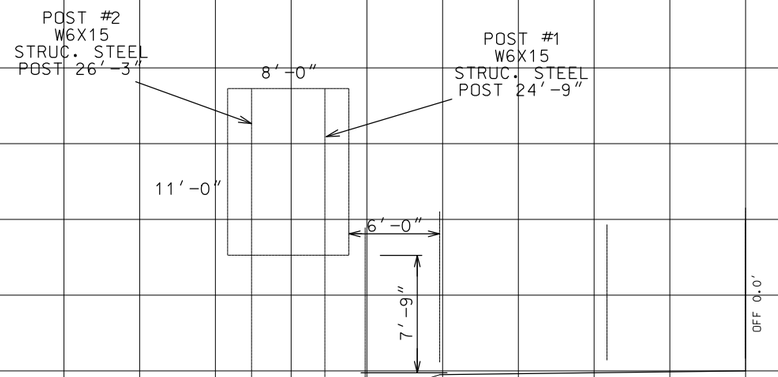
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

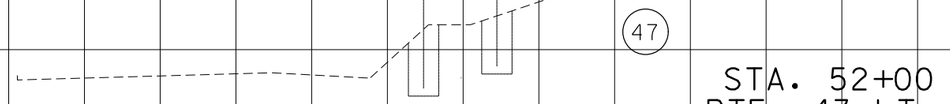
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MoDOT

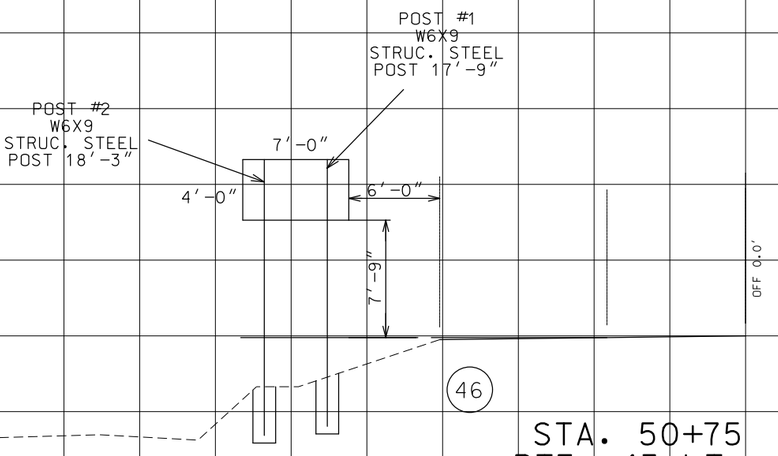
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



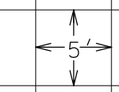




STA. 52+00
RTE. 43 LT.

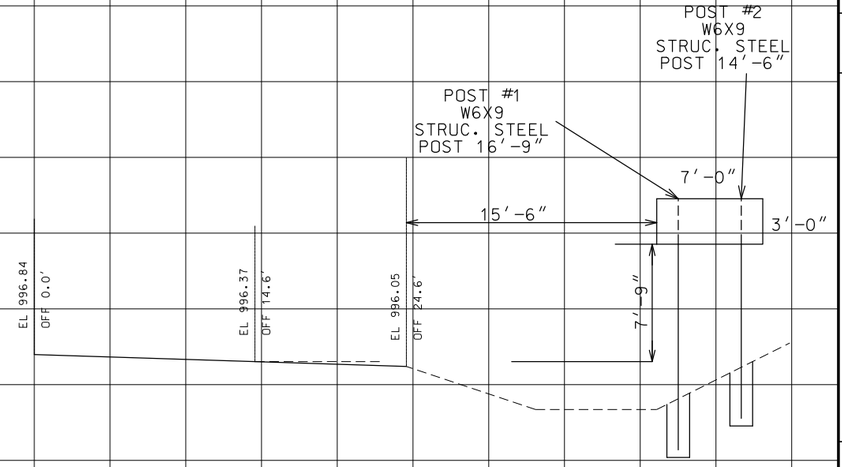


STA. 50+75
RTE. 43 LT.



34

STA. 42+23
RTE. 43 RT.



STA. 37+25
RTE. 60 RT.

SIGNING SHEET
SHEET 12 OF 12

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	56

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

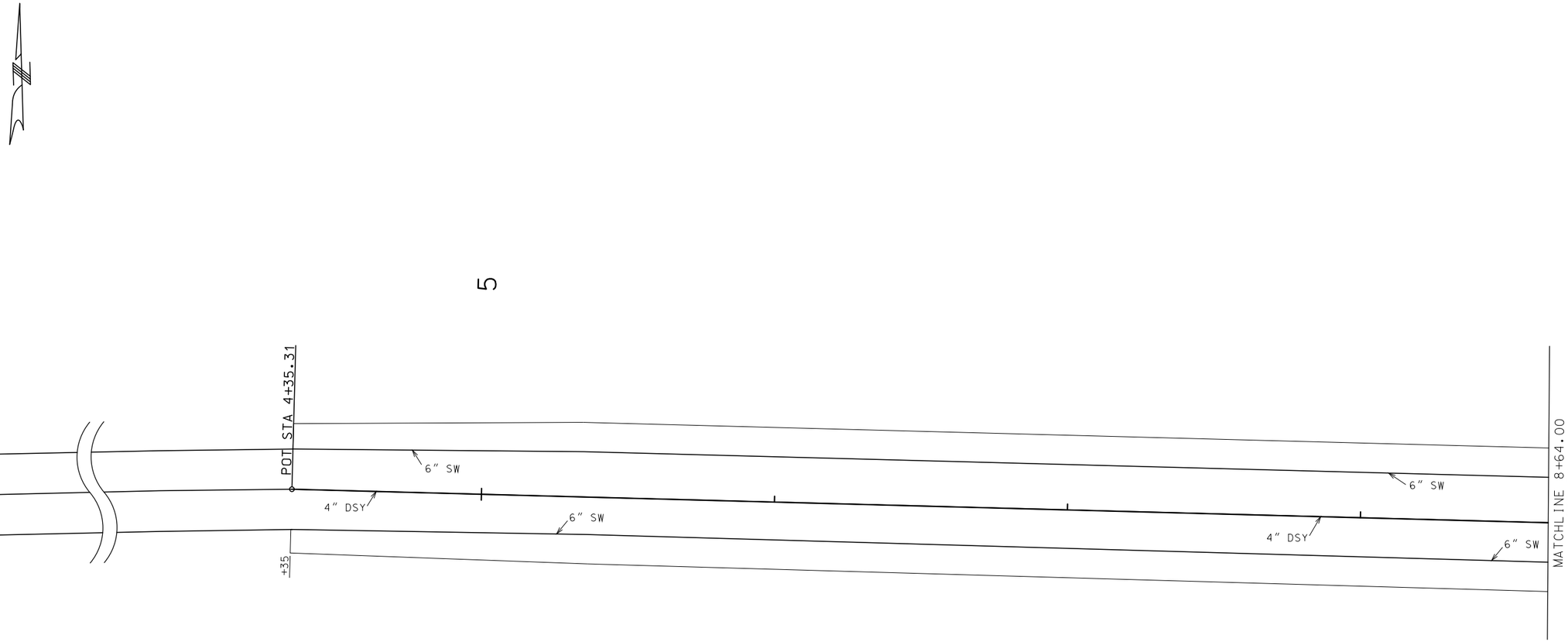
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



PAVEMENT MARKING LEGEND
SW - SOLID WHITE
DW - DOT WHITE (2' STRIPE, 4' GAP)
SY - SOLID YELLOW
DSY - DOUBLE SOLID YELLOW

ALL PAVEMENT MARKING PAINT SHALL BE HIGH BUILD WATERBORNE WITH TYPE L BEADS.

* ALL STATIONS ARE BASED ON PROPOSED 60 ALIGNMENTS MATCH LINES ARE BASED ON EXISTING 60 ALIGNMENTS

SCALE
0 20 40 60

PAVEMENT MARKING
SHEET 1 OF 9

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	57

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

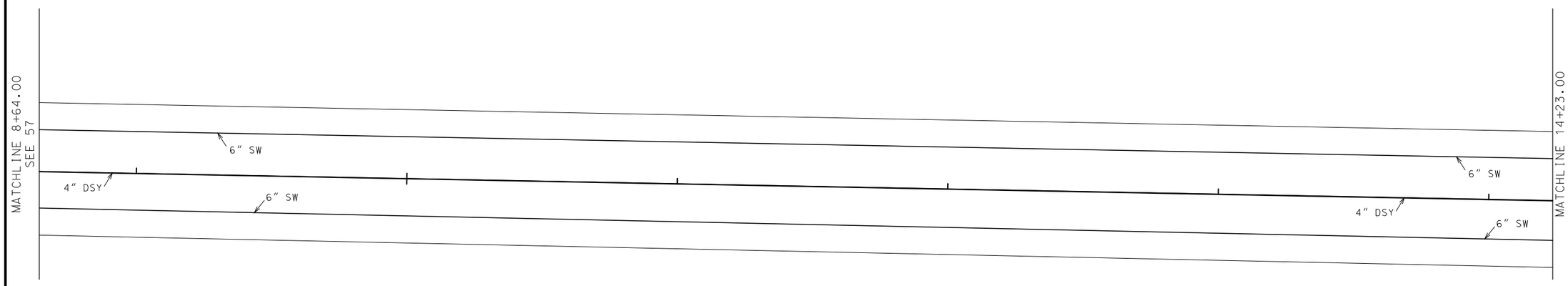
DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

10



PAVEMENT MARKING LEGEND
SW - SOLID WHITE
DW - DOT WHITE (2' STRIPE, 4' GAP)
SY - SOLID YELLOW
DSY - DOUBLE SOLID YELLOW

ALL PAVEMENT MARKING PAINT SHALL BE HIGH BUILD WATERBORNE WITH TYPE L BEADS.

* ALL STATIONS ARE BASED ON PROPOSED 60 ALIGNMENTS
MATCH LINES ARE BASED ON EXISTING 60 ALIGNMENTS

SCALE
0 20 40 60

PAVEMENT MARKING
SHEET 2 OF 9

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	58

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

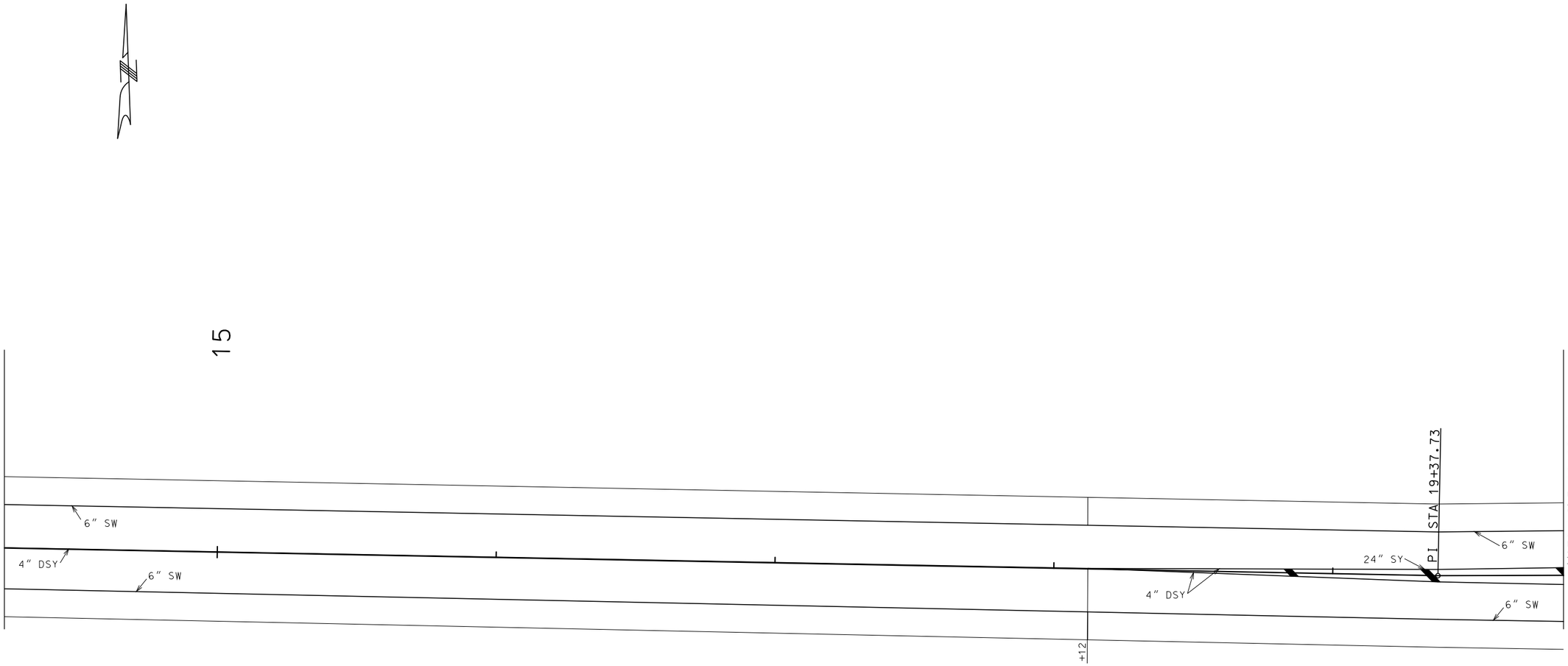
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



PAVEMENT MARKING LEGEND
SW - SOLID WHITE
DW - DOT WHITE (2' STRIPE, 4' GAP)
SY - SOLID YELLOW
DSY - DOUBLE SOLID YELLOW

ALL PAVEMENT MARKING PAINT SHALL BE HIGH BUILD WATERBORNE WITH TYPE L BEADS.

* ALL STATIONS ARE BASED ON PROPOSED 60 ALIGNMENTS. MATCH LINES ARE BASED ON EXISTING 60 ALIGNMENTS

SCALE

0 20 40 60

PAVEMENT MARKING
SHEET 3 OF 9

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	59

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

MATCHLINE 44+36.11
SEE 64

MATCHLINE 19+82.00
SEE 59

MATCHLINE 25+41.00
SEE 61

MATCHLINE 48+18.00
SEE 65

20

45

25

POT STA 22+62.29

PI STA 46+00.00

R45.5'

10°

7'-11 1/4"

24" SW TRIANGLES

SECTION A-A

SECTION B-B

PAVEMENT MARKING LEGEND

SW	- SOLID WHITE
DW	- DOT WHITE (2' STRIPE, 4' GAP)
SY	- SOLID YELLOW
DSY	- DOUBLE SOLID YELLOW
♦	- 42" TUBULAR MARKERS (YELLOW)

ALL PAVEMENT MARKING PAINT SHALL BE HIGH BUILD WATERBORNE WITH TYPE L BEADS.

SCALE
0 20 40 60

* ALL STATIONS ARE BASED ON PROPOSED 60 AND EXISTING 43 ALIGNMENTS MATCH LINES ARE BASED ON EXISTING 60 AND EXISTING 43 ALIGNMENTS

PAVEMENT MARKING
SHEET 4 OF 9

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

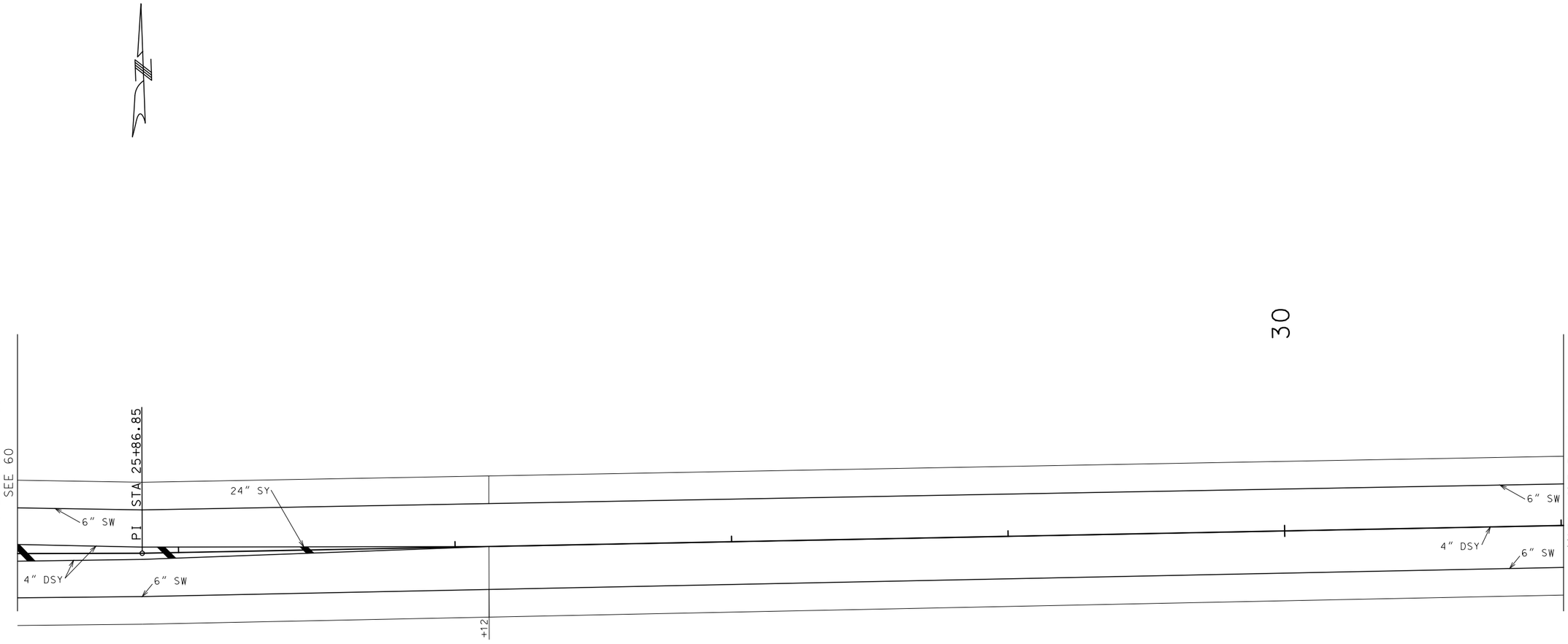
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE PREPARED	3/8/2016
ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	60
COUNTY	NEWTON
JOB NO.	J7P3086
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



30

PAVEMENT MARKING LEGEND
SW - SOLID WHITE
DW - DOT WHITE (2' STRIPE, 4' GAP)
SY - SOLID YELLOW
DSY - DOUBLE SOLID YELLOW

ALL PAVEMENT MARKING PAINT SHALL BE HIGH BUILD WATERBORNE WITH TYPE L BEADS.

* ALL STATIONS ARE BASED ON PROPOSED 60 ALIGNMENTS. MATCH LINES ARE BASED ON EXISTING 60 ALIGNMENTS

SCALE
0 20 40 60

PAVEMENT MARKING
SHEET 5 OF 9

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	61

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

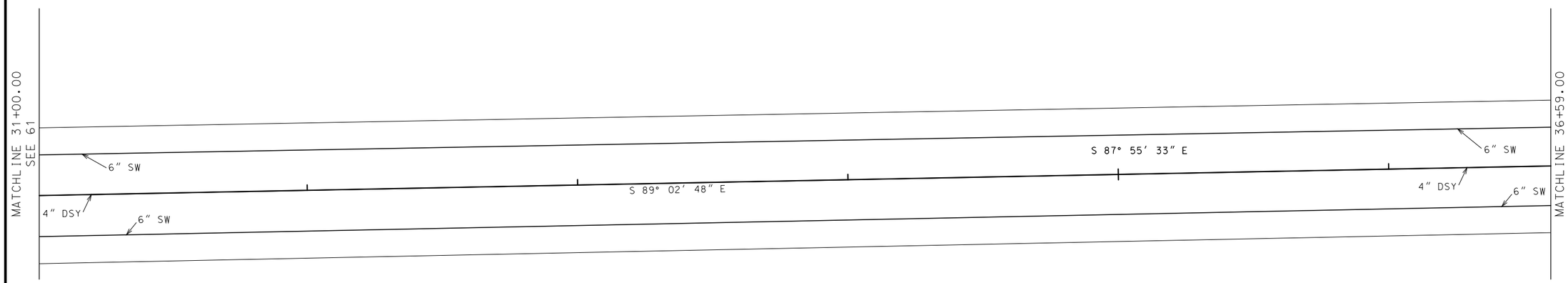
BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

35



PAVEMENT MARKING LEGEND
SW - SOLID WHITE
DW - DOT WHITE (2' STRIPE, 4' GAP)
SY - SOLID YELLOW
DSY - DOUBLE SOLID YELLOW

ALL PAVEMENT MARKING PAINT SHALL BE HIGH BUILD WATERBORNE WITH TYPE L BEADS.

* ALL STATIONS ARE BASED ON PROPOSED 60 ALIGNMENTS MATCH LINES ARE BASED ON EXISTING 60 ALIGNMENTS

SCALE
0 20 40 60

PAVEMENT MARKING
SHEET 6 OF 9

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	62

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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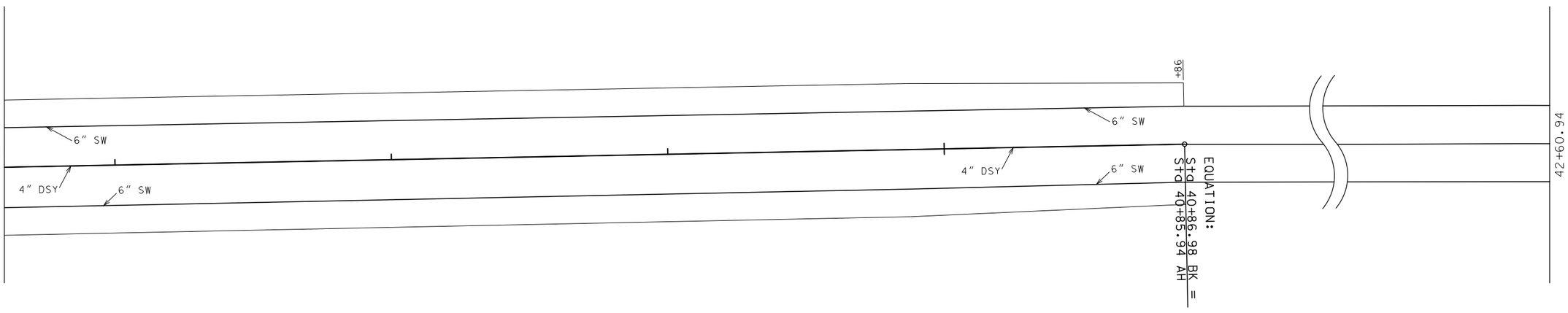
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

40



PAVEMENT MARKING LEGEND
SW – SOLID WHITE
DW – DOT WHITE (2' STRIPE, 4' GAP)
SY – SOLID YELLOW
DSY – DOUBLE SOLID YELLOW

ALL PAVEMENT MARKING PAINT SHALL BE HIGH BUILD WATERBORNE WITH TYPE L BEADS.

* ALL STATIONS ARE BASED ON PROPOSED 60 ALIGNMENTS
MATCH LINES ARE BASED ON EXISTING 60 ALIGNMENTS

SCALE
0 20 40 60

PAVEMENT MARKING
SHEET 7 OF 9

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	63

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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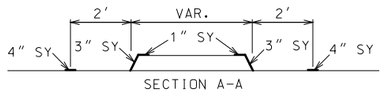
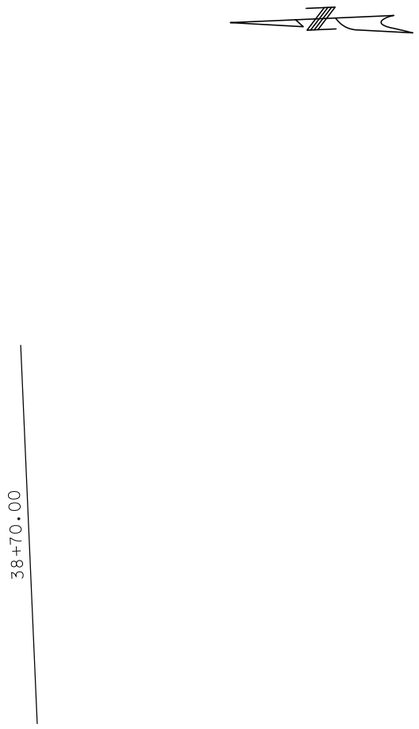
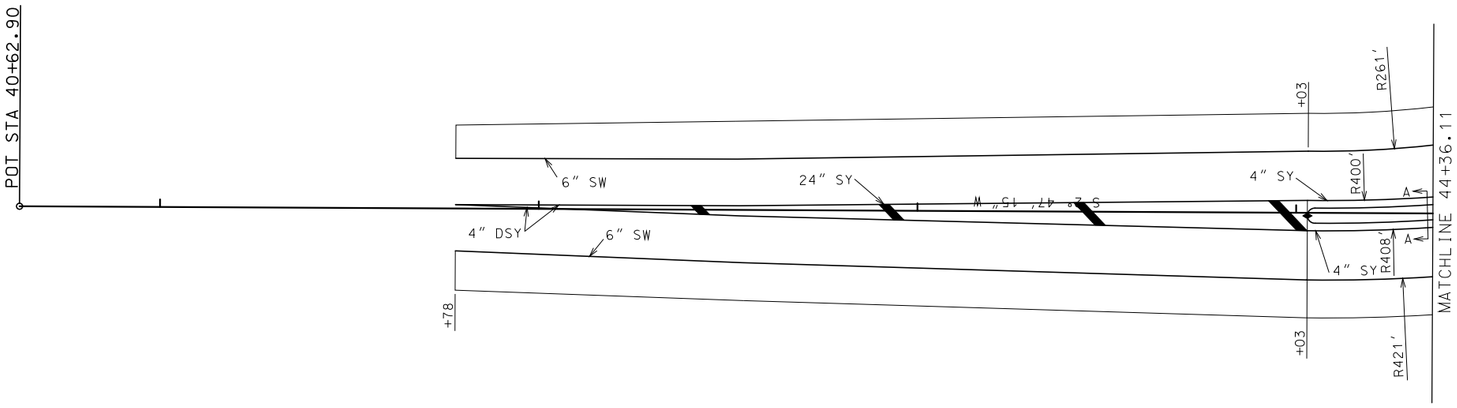
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



SECTION A-A





PAVEMENT MARKING LEGEND
SW – SOLID WHITE
DW – DOT WHITE (2' STRIPE, 4' GAP)
SY – SOLID YELLOW
DSY – DOUBLE SOLID YELLOW
♦ – 42" TUBULAR MARKERS (YELLOW)

ALL PAVEMENT MARKING PAINT SHALL BE HIGH BUILD WATERBORNE WITH TYPE L BEADS.

* ALL STATIONS AND MATCH LINES ARE BASED ON EXISTING 43 ALIGNMENTS

SCALE
0 20 40 60

PAVEMENT MARKING
SHEET 8 OF 9

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	64

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

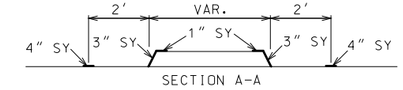
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



SECTION A-A

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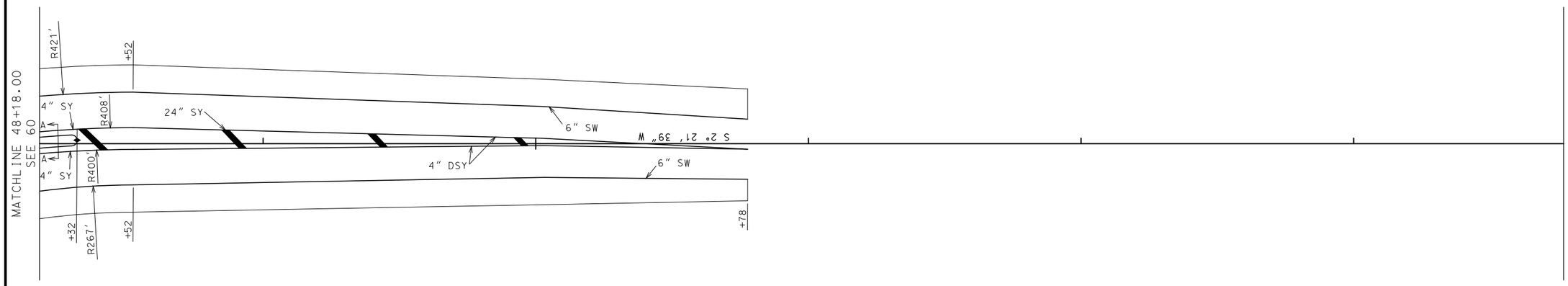

PAVEMENT MARKING LEGEND
SW – SOLID WHITE
DW – DOT WHITE (2′ STRIPE, 4′ GAP)
SY – SOLID YELLOW
DSY – DOUBLE SOLID YELLOW
♦ – 42″ TUBULAR MARKERS (YELLOW)

ALL PAVEMENT MARKING PAINT SHALL BE HIGH BUILD WATERBORNE WITH TYPE L BEADS.

* ALL STATIONS AND MATCH LINES ARE BASED ON EXISTING 43 ALIGNMENTS

SCALE
0 20 40 60

PAVEMENT MARKING
SHEET 9 OF 9

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	65

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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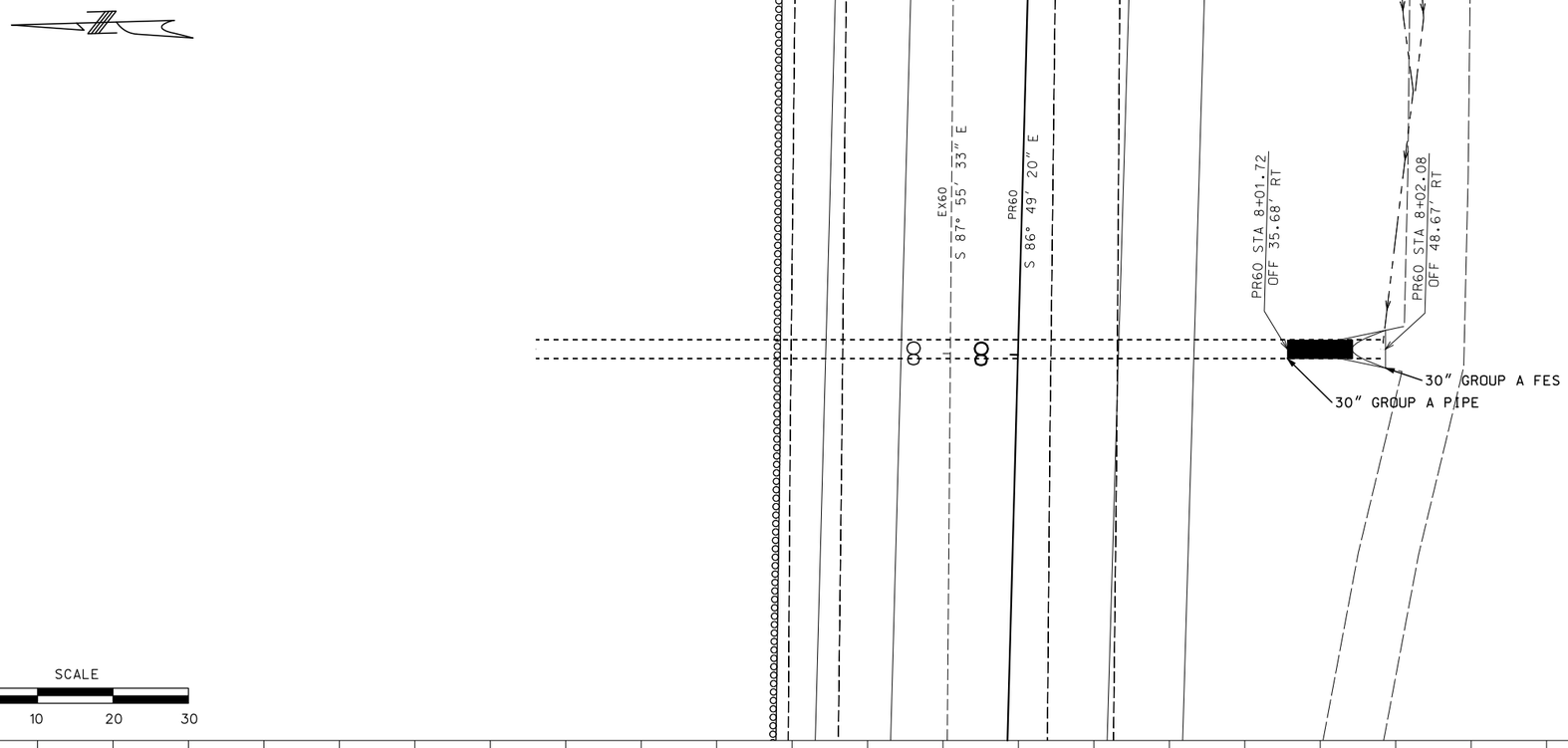
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

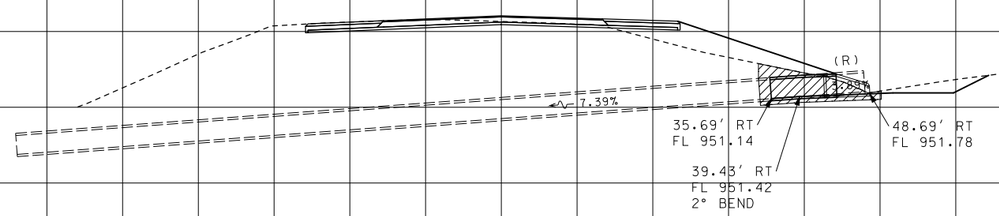


SCALE
0 10 20 30

PR60
STA 8+00.75
SKEW 1°33′26″ RA

REMOVE 12.4′ OF EXIST 30″ PIPE

8.68′ X 30″ GROUP A PIPE
1 - 2° BEND REQUIRED
1 - 30″ FES REQUIRED
CL3 = 12.0 CY



980 970 960 950 940 930

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

CULVERT SECTION
SHEET
SHEET 1 OF 3

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	66

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

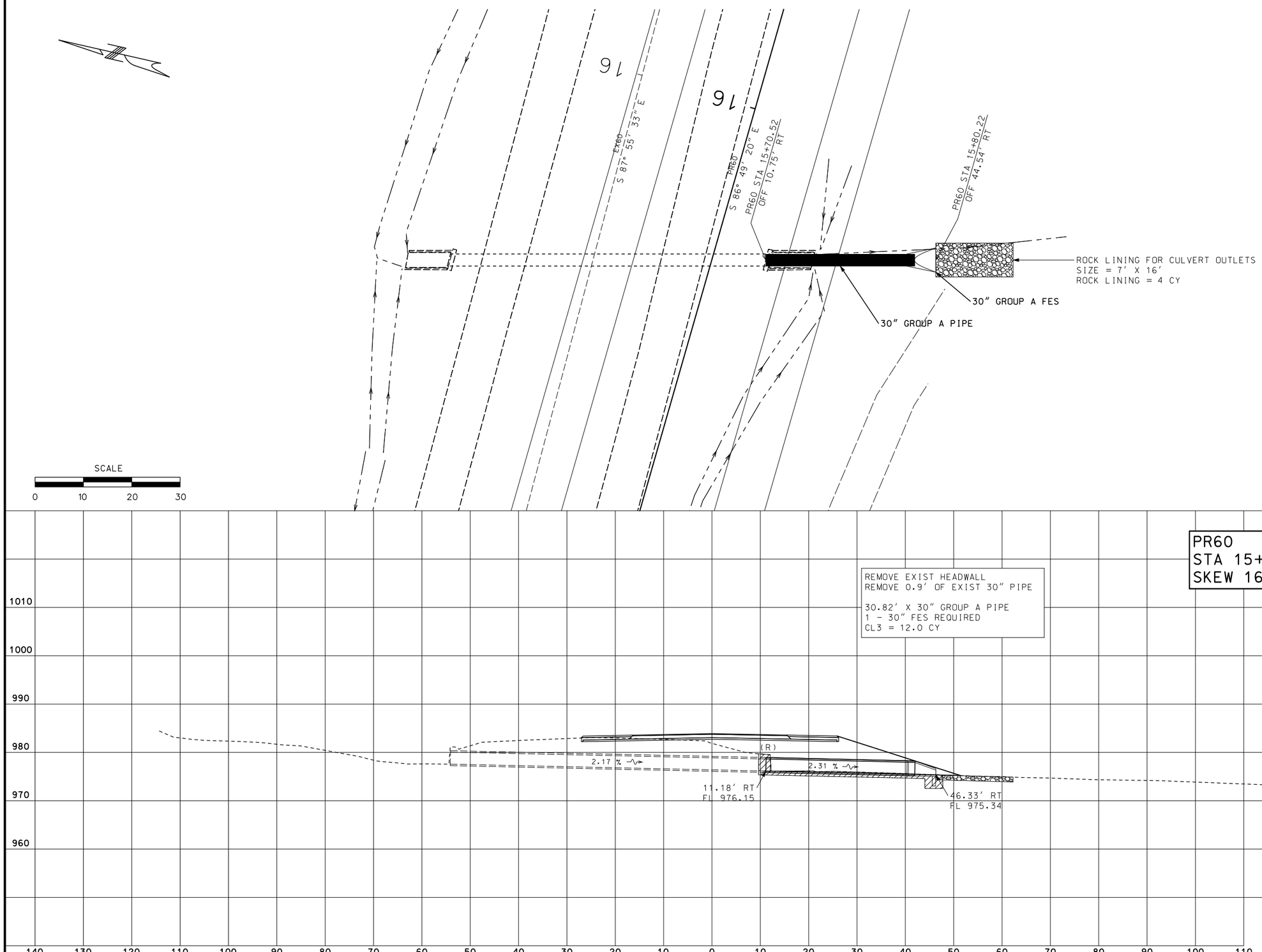
BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



CULVERT SECTION
SHEET
SHEET 2 OF 3

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	67

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

EQUATION:
Sta 40+86.98 BK =
Sta 40+85.94 AH

PR60 STA 40+48.17
OFF 39.67' RT

PR60 STA 40+53.99
OFF 56.26' RT

ROCK LINING FOR CULVERT OUTLETS
SIZE = 7' X 16'
ROCK LINING = 4 CY

30" GROUP A FES

30" GROUP A PIPE

EX60
S 87° 58' 33" E

PR60
S 89° 02' 48" E

SCALE
0 10 20 30

PR60
STA 40+34.32
SKEW 19°16'25" RA

REMOVE 8.0' OF EXIST 30" PIPE

13.30' X 30" GROUP A PIPE
1 - 30" FES REQUIRED
CL3 = 10.0 CY

(R)
4.24 %
3.47 %

41.96' RT
FL 982.57

59.60' RT
FL 981.96

1020
1010
1000
990
980
970

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

CULVERT SECTION
SHEET
SHEET 3 OF 3

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/8/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	68

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

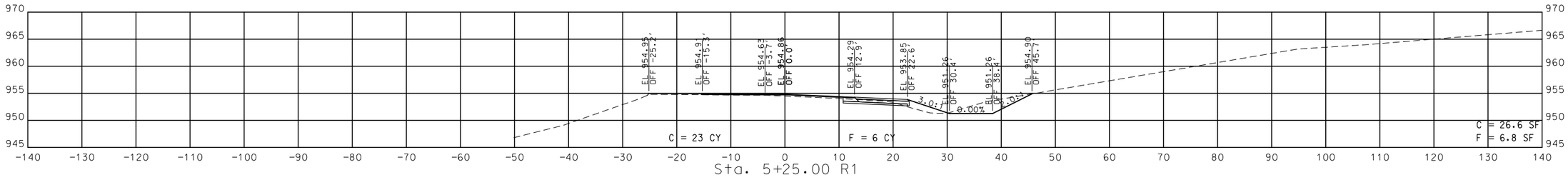
PROJECT NO.

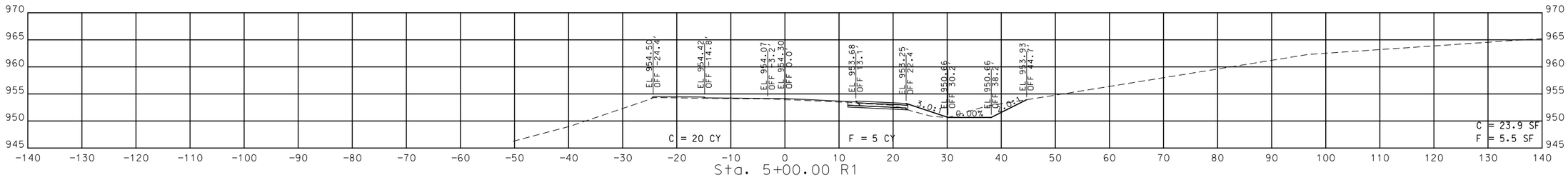
BRIDGE NO.

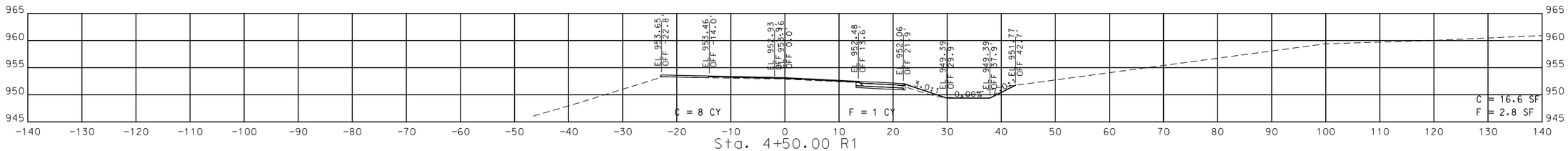
DESCRIPTION	DATE

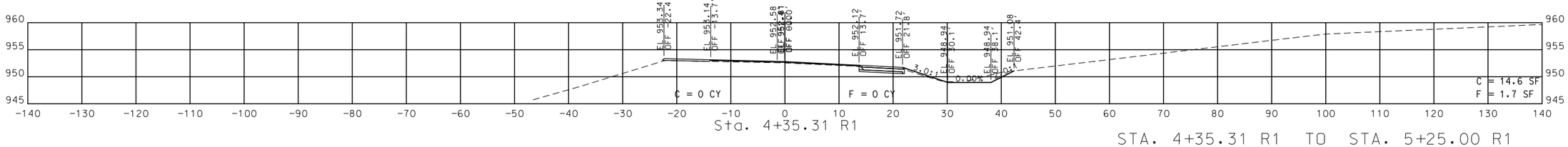
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)









STA. 4+35.31 R1 TO STA. 5+25.00 R1

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	1

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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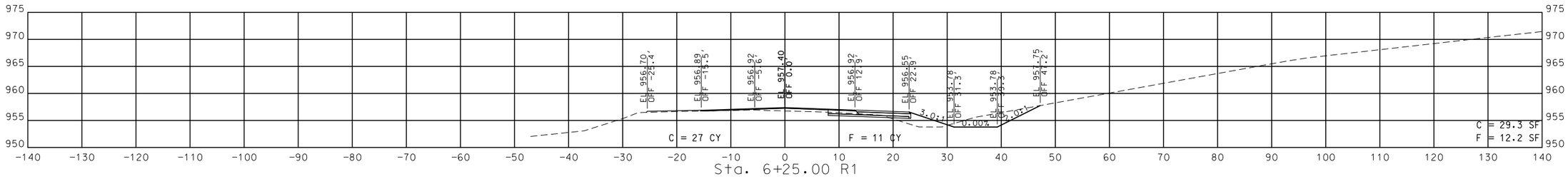
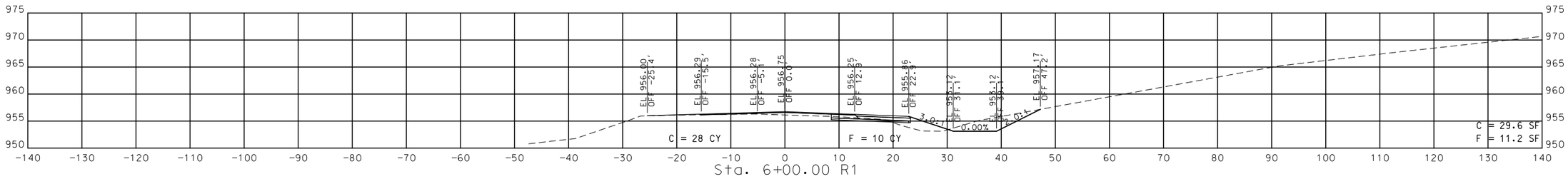


Sta. 6+25.00 R1



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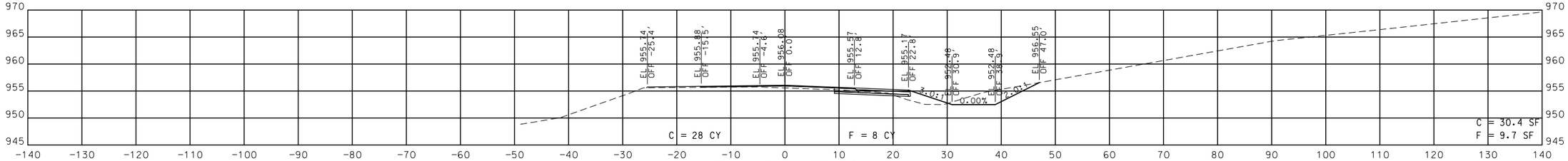
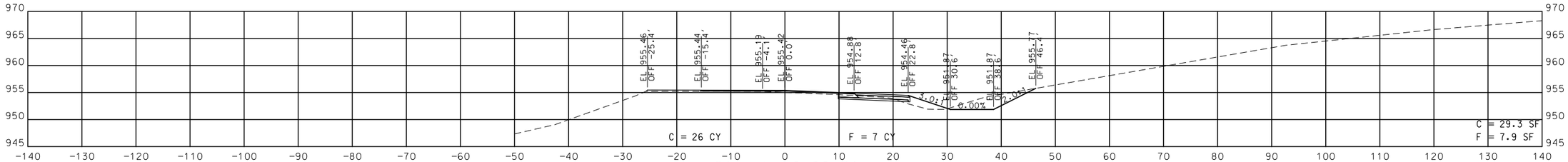


Sta. 5+75.00 R1



Sta. 5+50.00 R1

STA. 5+50.00 R1 TO STA. 6+25.00 R1

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

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DATE PREPARED
3/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	2

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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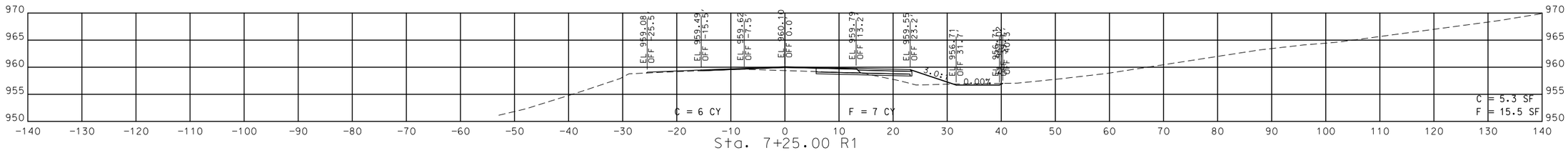

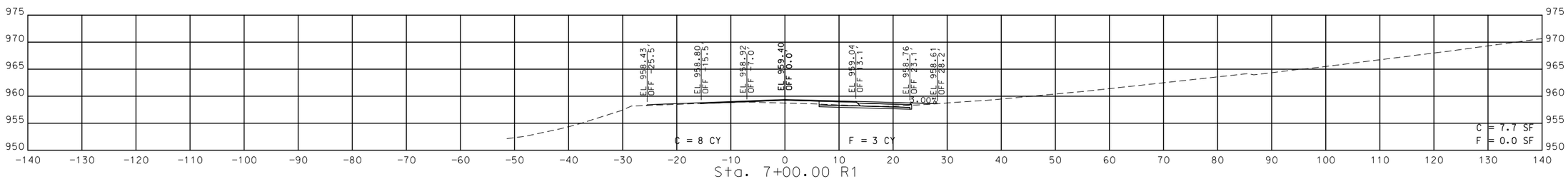

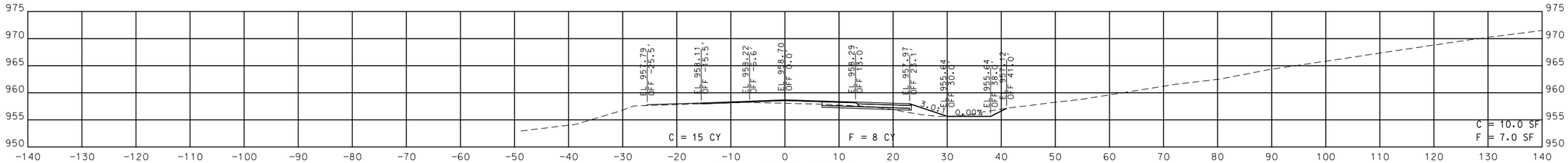

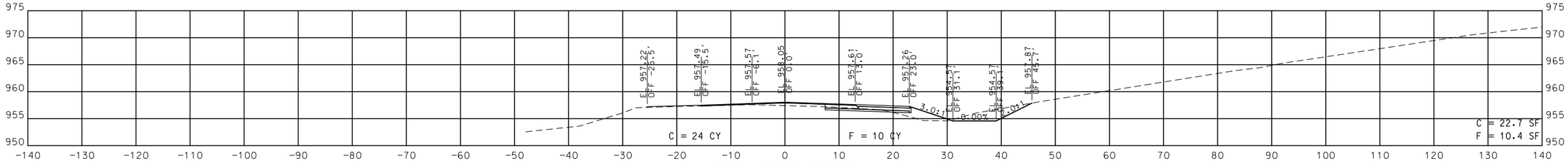

STA. 6+50.00 R1 TO STA. 7+25.00 R1

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

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DATE PREPARED
3/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	3

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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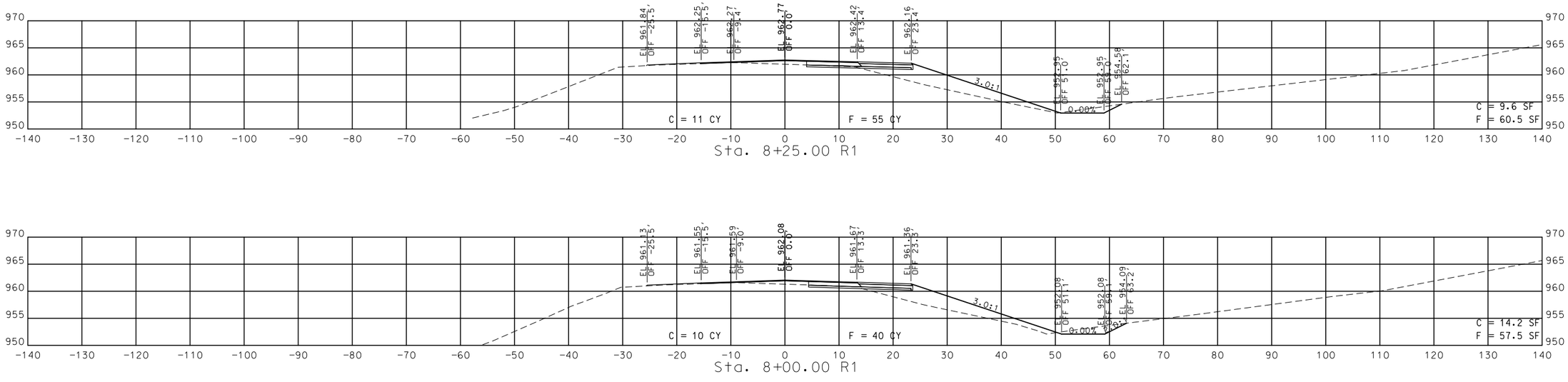
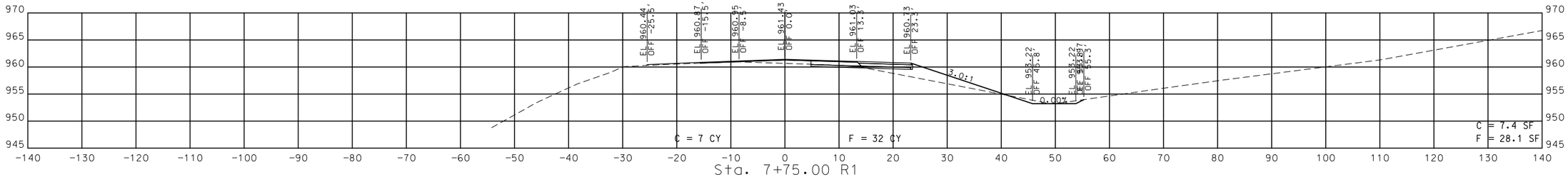
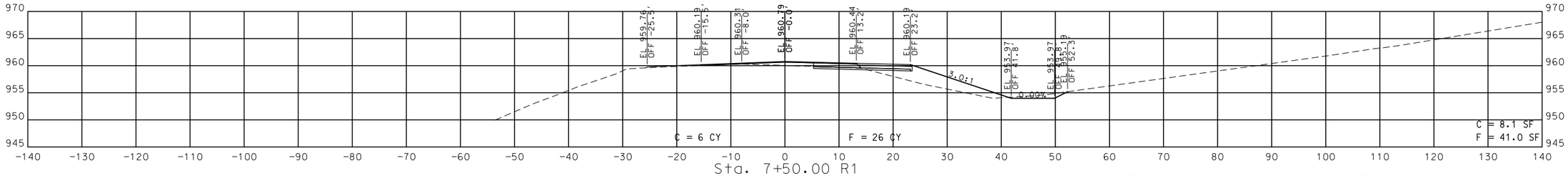
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)







STA. 7+50.00 R1 TO STA. 8+25.00 R1

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

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DATE PREPARED
3/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	4

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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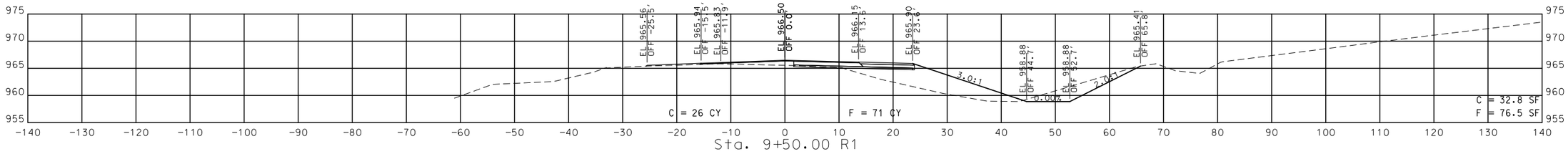
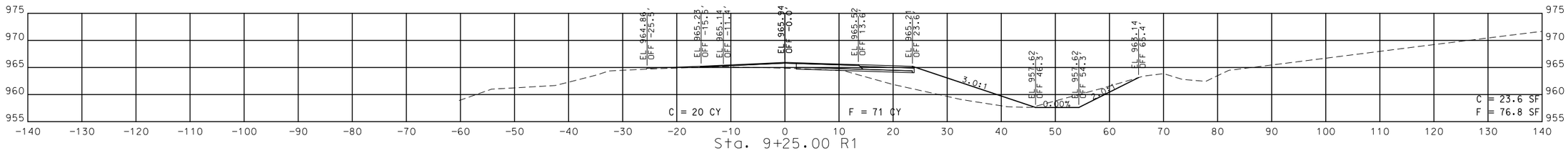
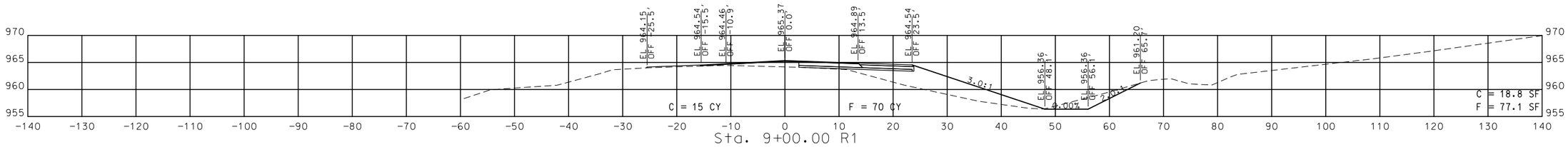
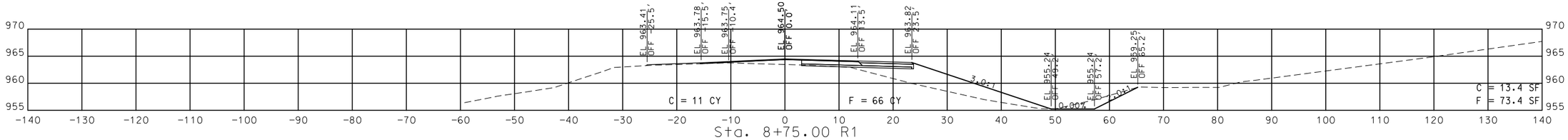
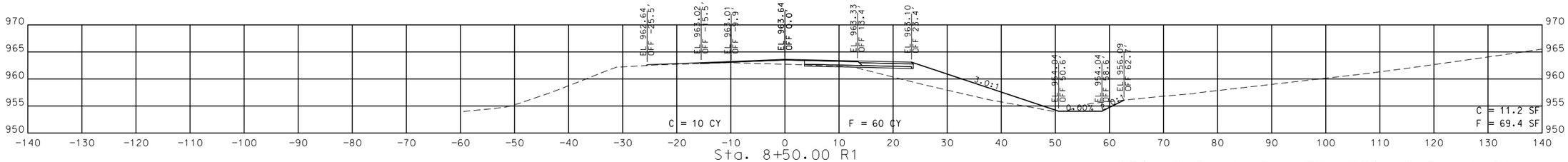
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)











STA. 8+50.00 R1 TO STA. 9+50.00 R1

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	5

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

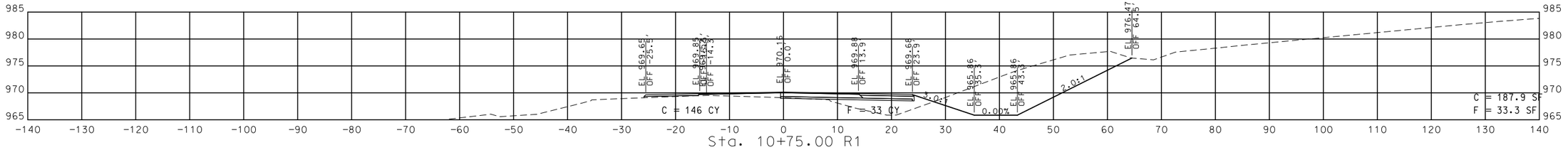
PROJECT NO.

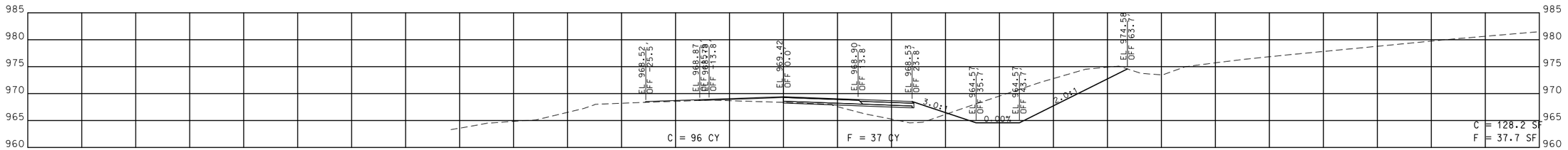
BRIDGE NO.

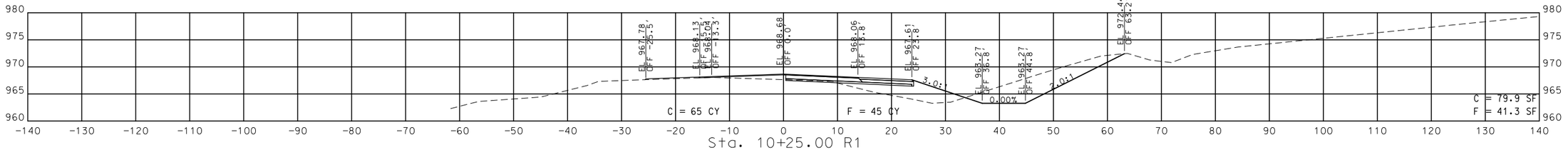
DATE	DESCRIPTION

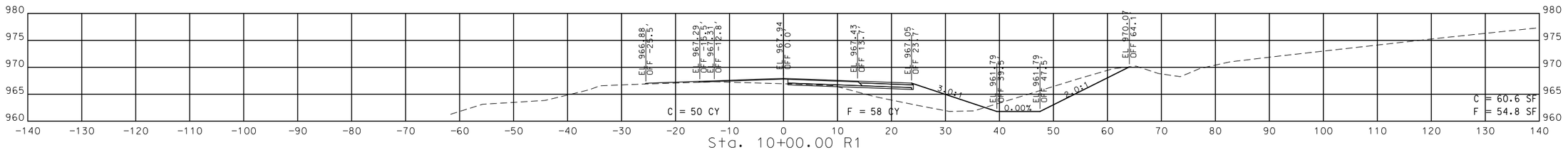
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

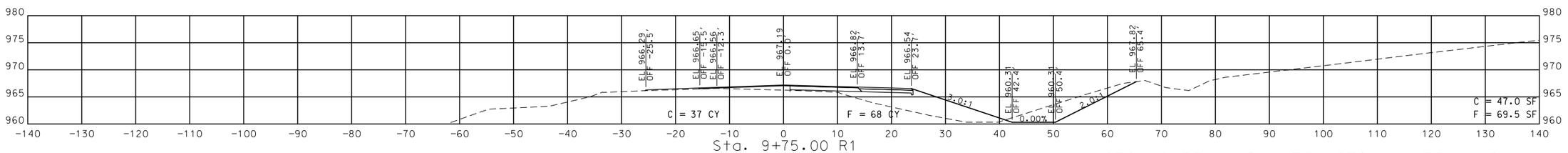
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)











STA. 9+75.00 R1 TO STA. 10+75.00 R1

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	6

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

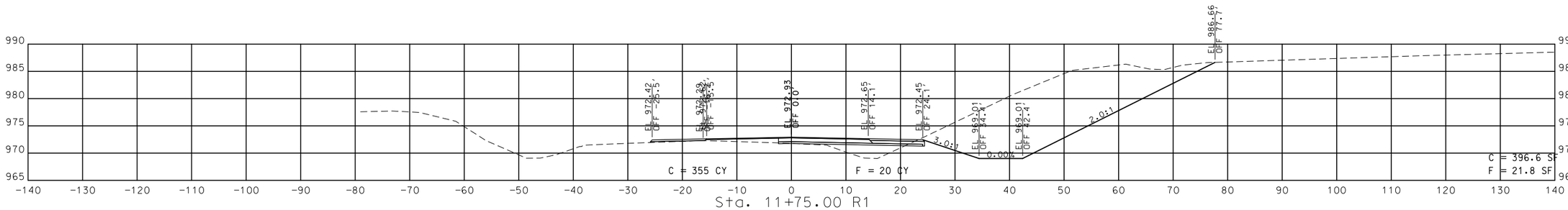
BRIDGE NO.

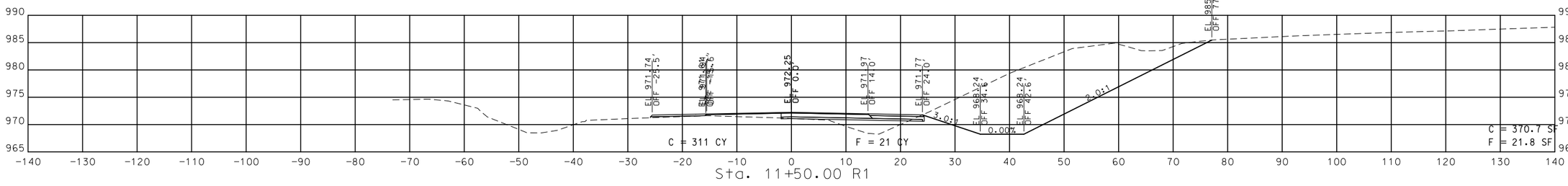
DESCRIPTION	DATE

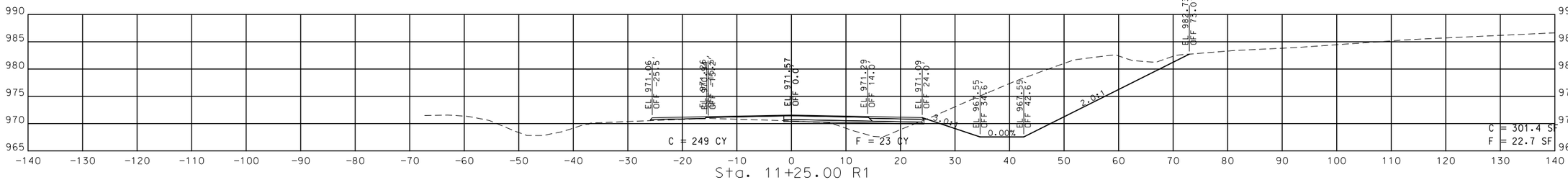
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

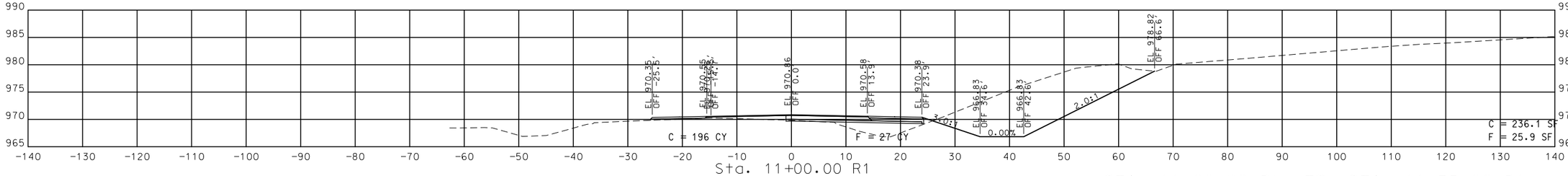
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)









STA. 11+00.00 R1 TO STA. 11+75.00 R1

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	7

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

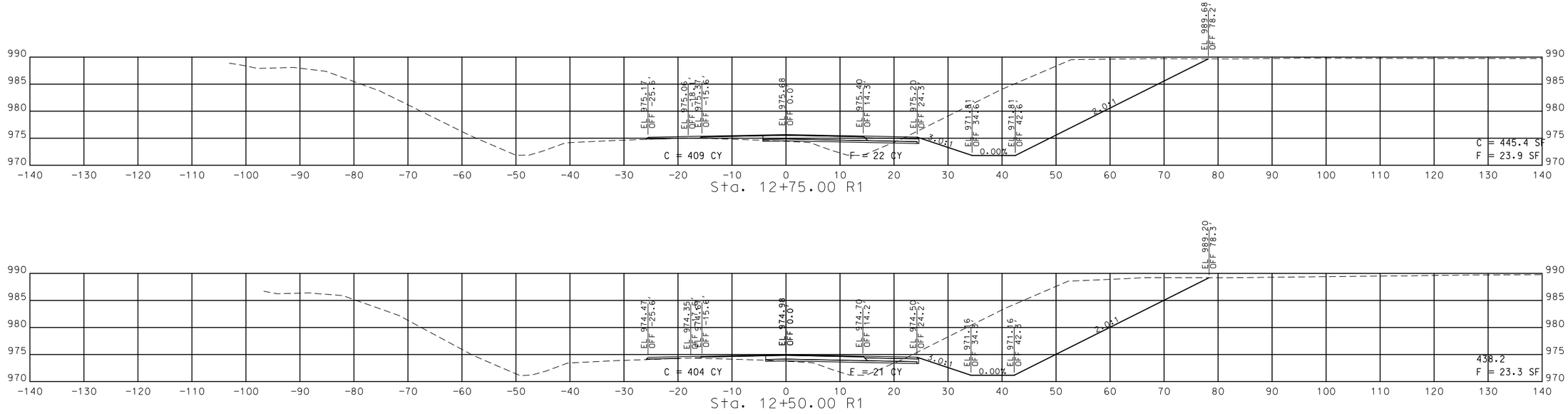
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

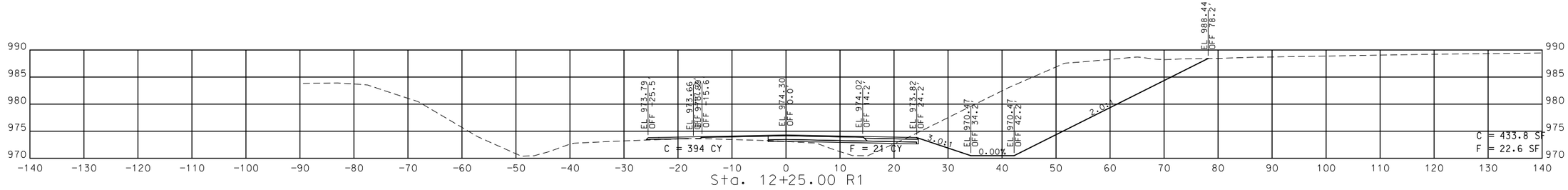
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

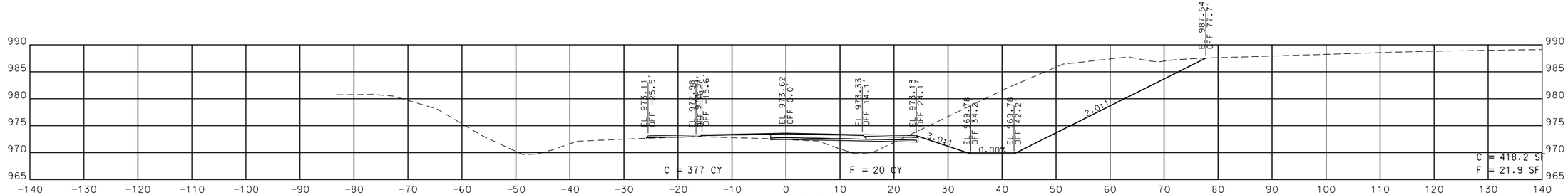


Sta. 12+75.00 R1

Sta. 12+50.00 R1



Sta. 12+25.00 R1



Sta. 12+00.00 R1

STA. 12+00.00 R1 TO STA. 12+75.00 R1

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

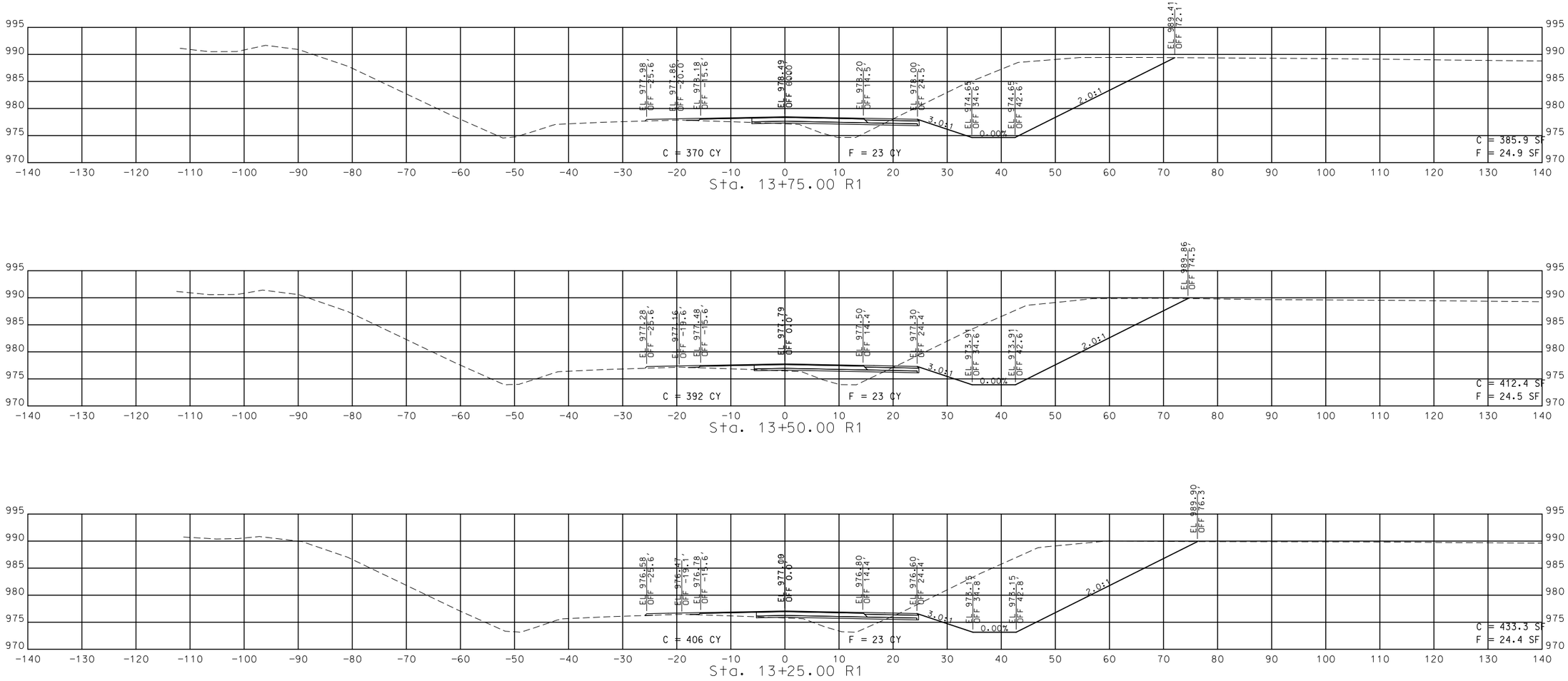
DATE PREPARED	3/7/2016
ROUTE	60
STATE	MO
DISTRICT	SW
SHEET NO.	8
COUNTY	NEWTON
JOB NO.	J7P3086
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



STA. 13+00.00 R1 TO STA. 13+75.00 R1

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	9

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

STA. 14+00.00 R1 TO STA. 15+00.00 R1

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	10

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

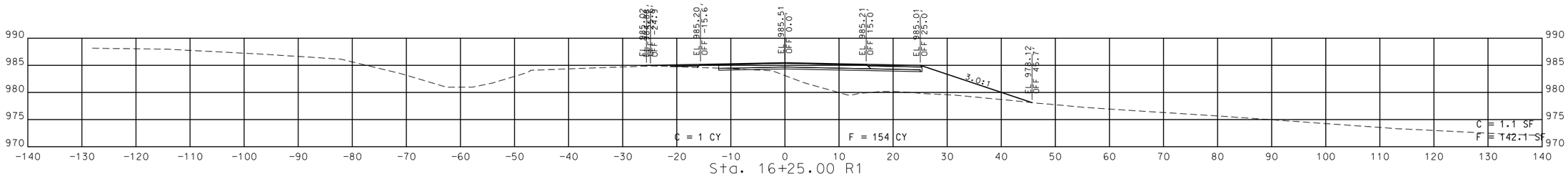
BRIDGE NO.

DATE	DESCRIPTION

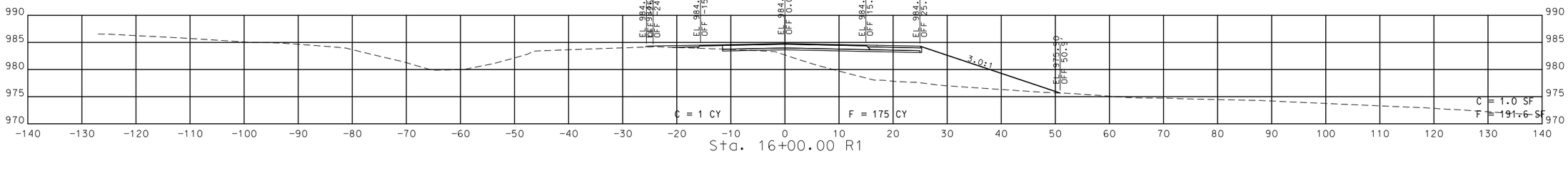
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

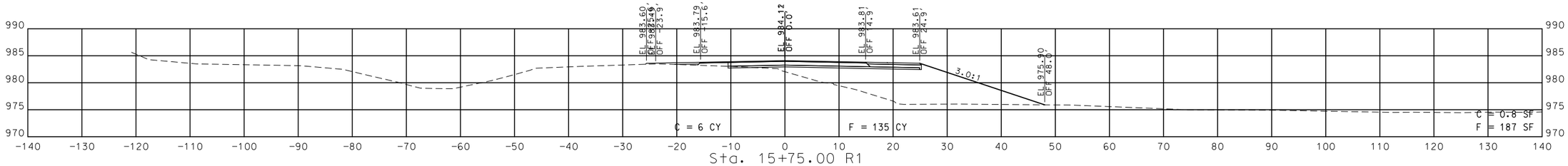
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



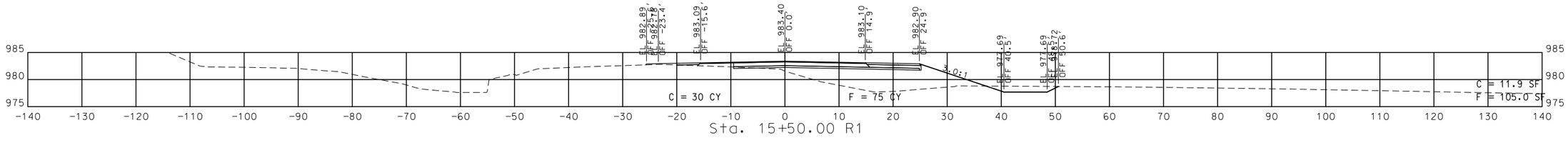
Sta. 16+25.00 R1



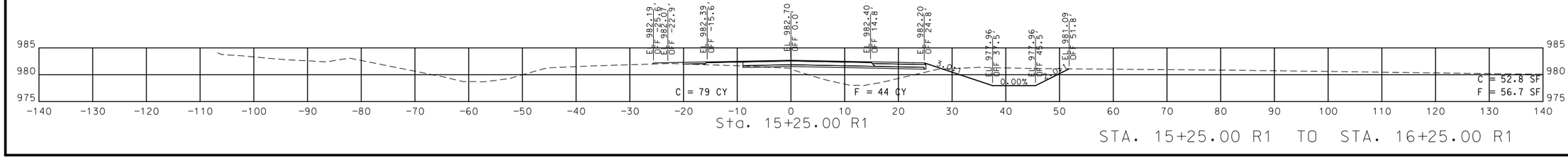
Sta. 16+00.00 R1



Sta. 15+75.00 R1



Sta. 15+50.00 R1



Sta. 15+25.00 R1

STA. 15+25.00 R1 TO STA. 16+25.00 R1

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	11

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

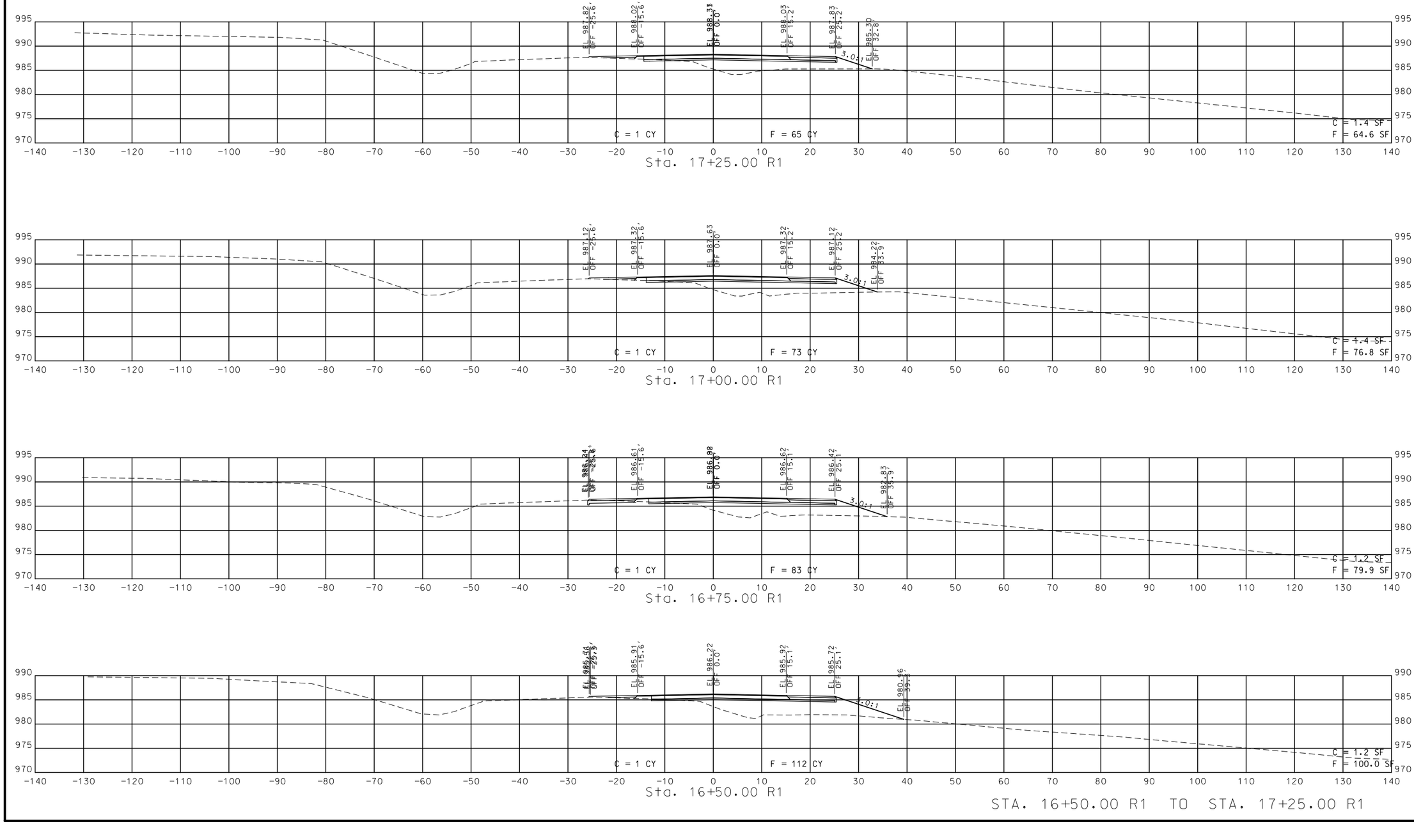
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



STA. 16+50.00 R1 TO STA. 17+25.00 R1

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	12

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

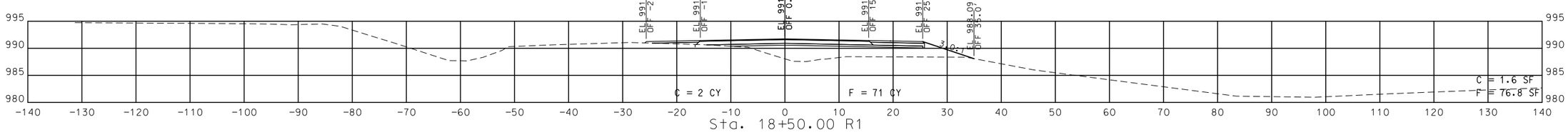
BRIDGE NO.

DATE	DESCRIPTION

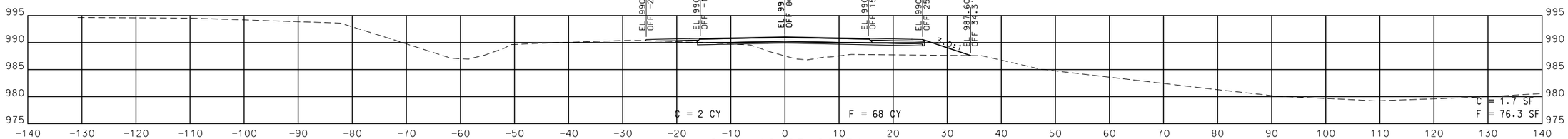
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

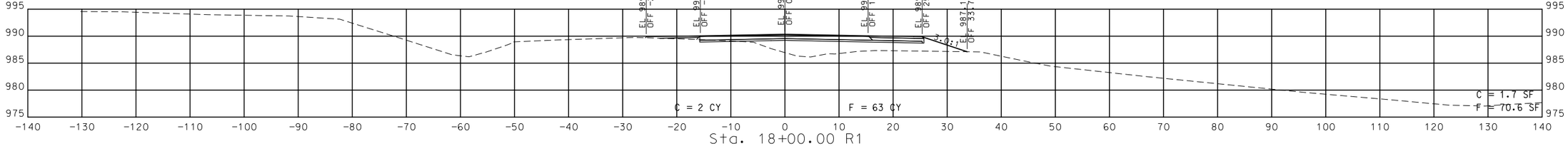
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



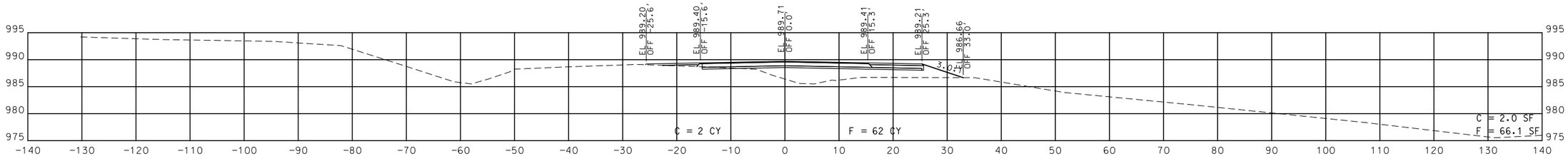
Sta. 18+50.00 R1



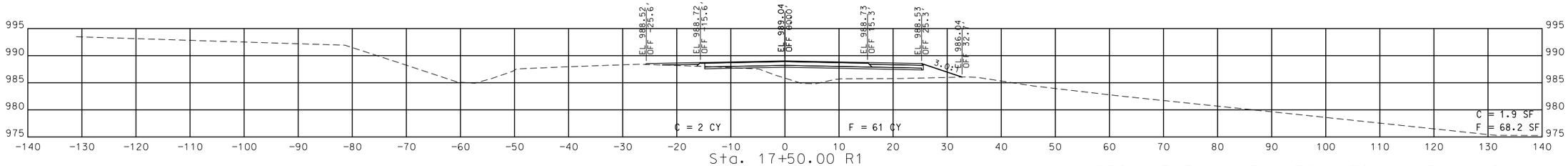
Sta. 18+25.00 R1



Sta. 18+00.00 R1



Sta. 17+75.00 R1



Sta. 17+50.00 R1

STA. 17+50.00 R1 TO STA. 18+50.00 R1

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	13

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

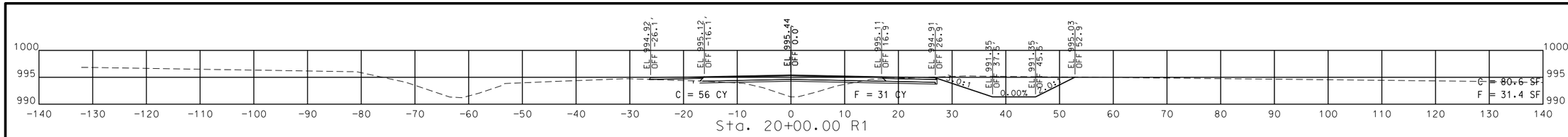
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	14

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

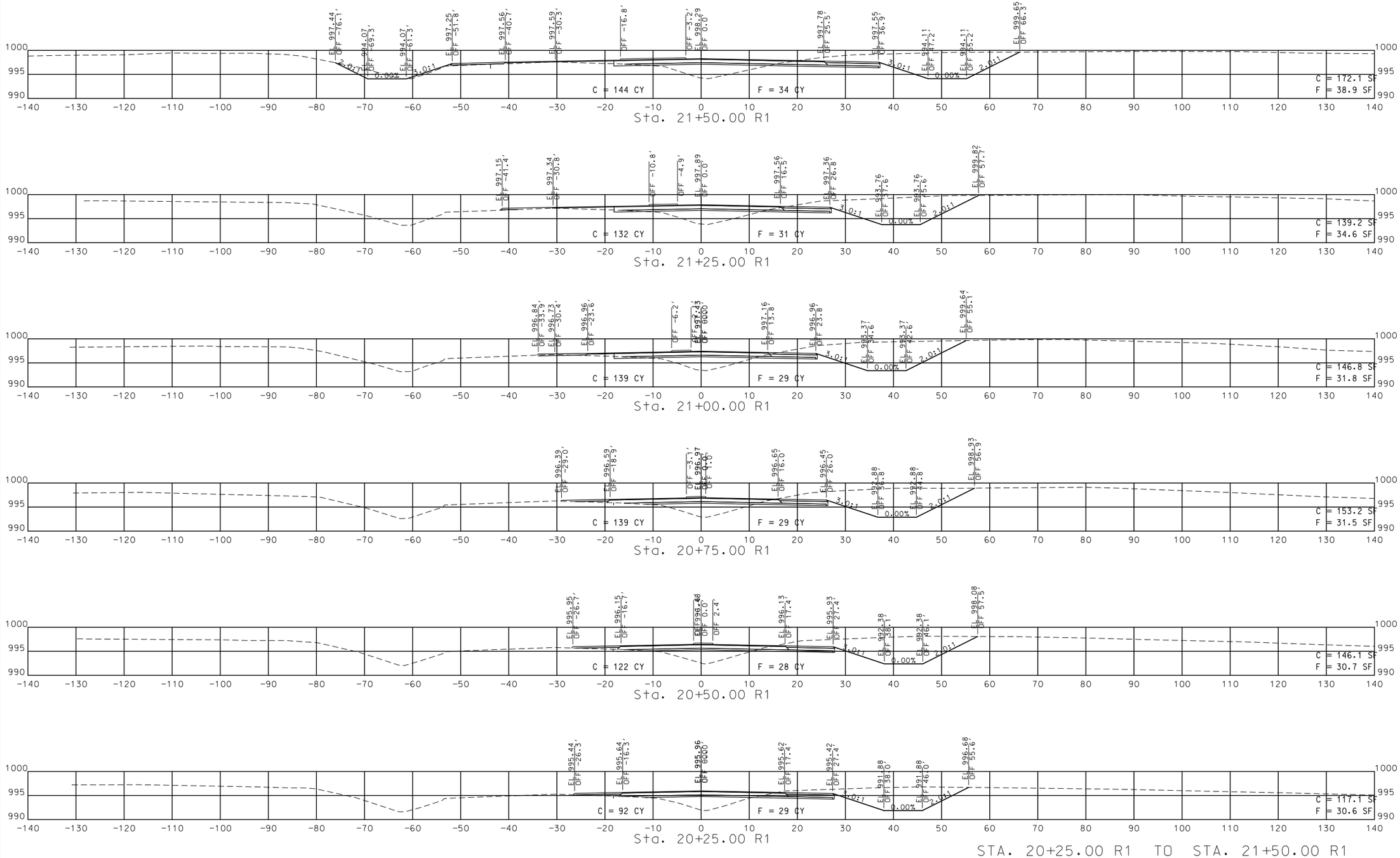
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



STA. 20+25.00 R1 TO STA. 21+50.00 R1

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	15

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

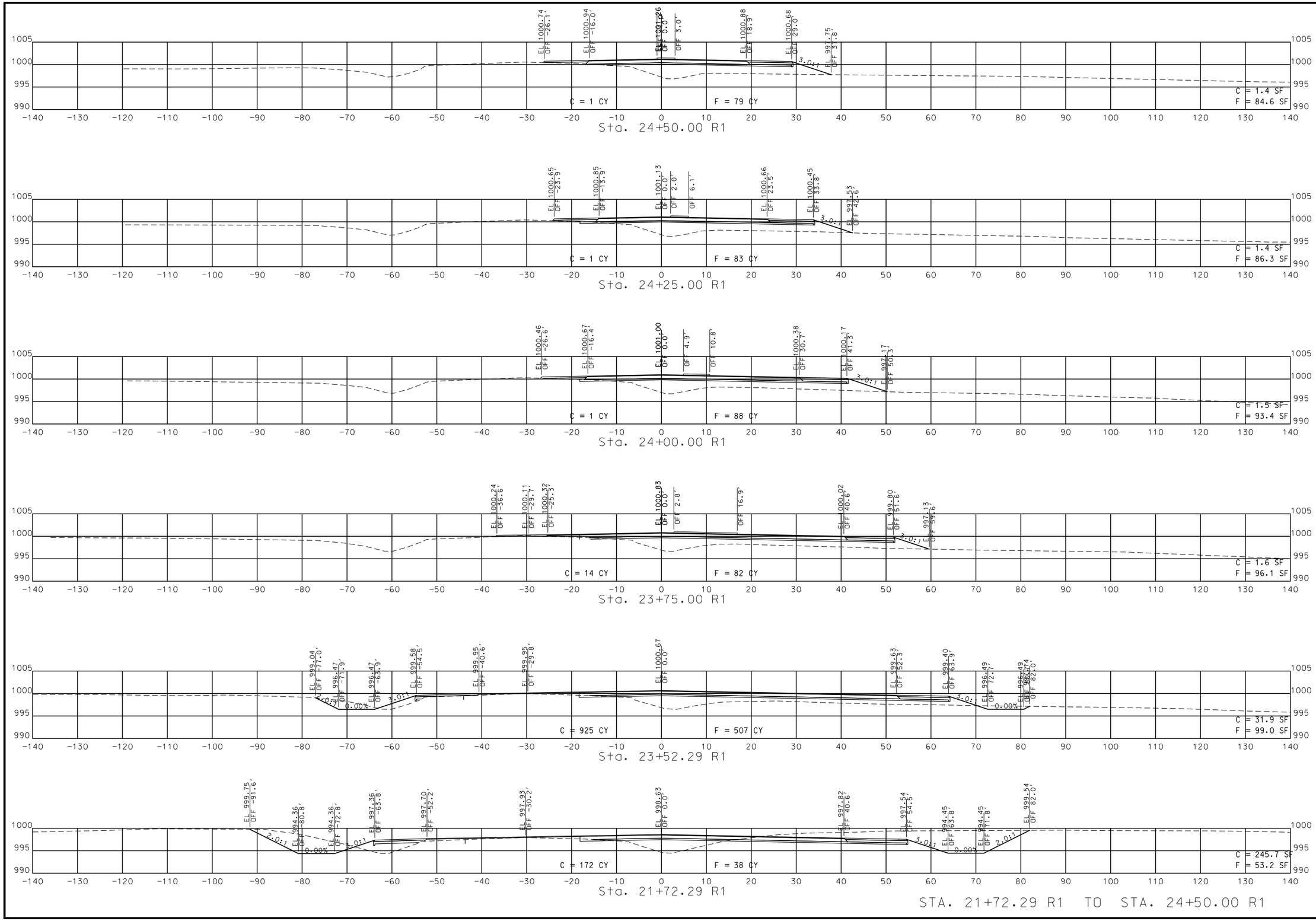
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



STA. 21+72.29 R1 TO STA. 24+50.00 R1

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	16

COUNTY: NEWTON

JOB NO.: J7P3086

CONTRACT ID.:

PROJECT NO.:

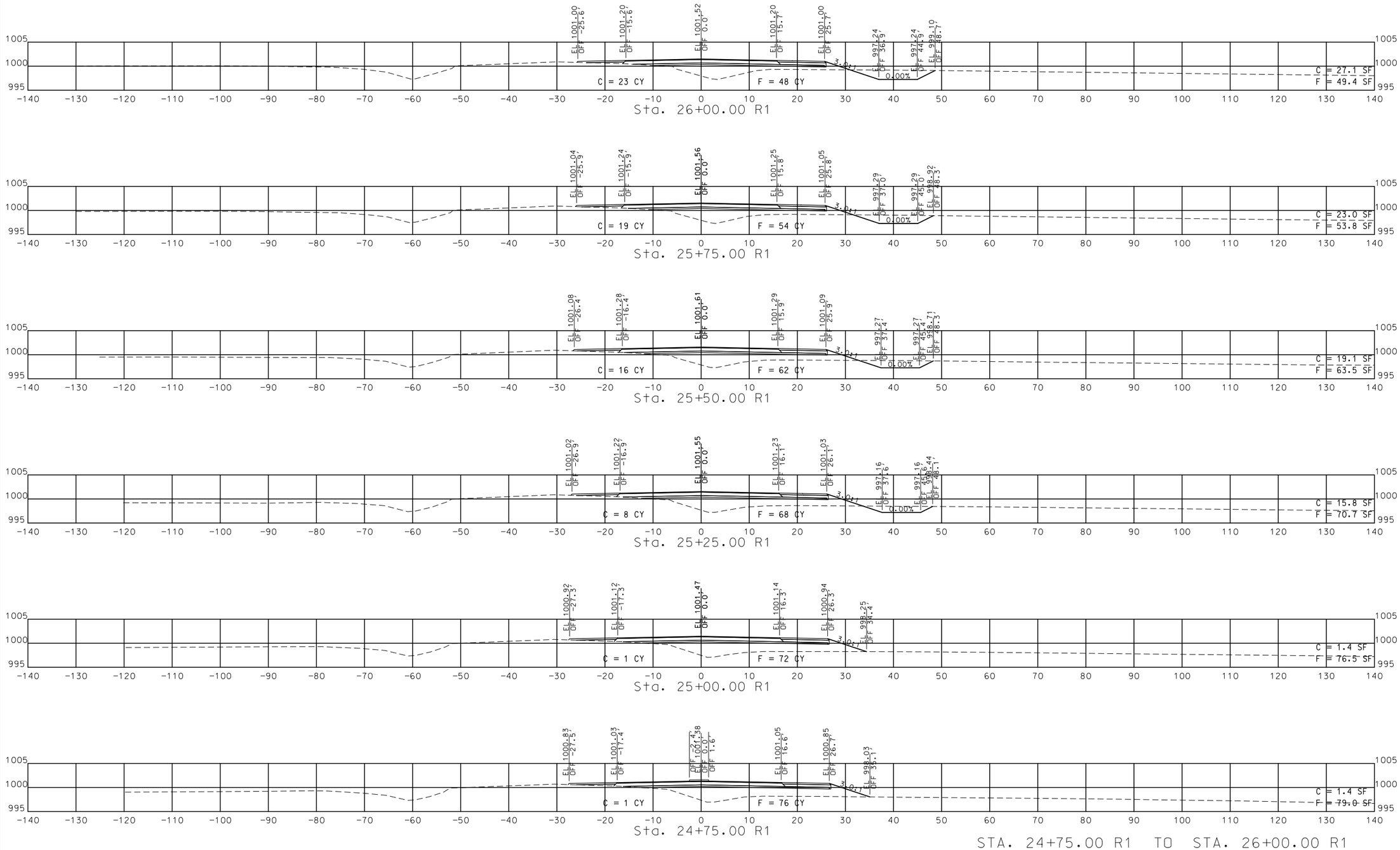
BRIDGE NO.:

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	17

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

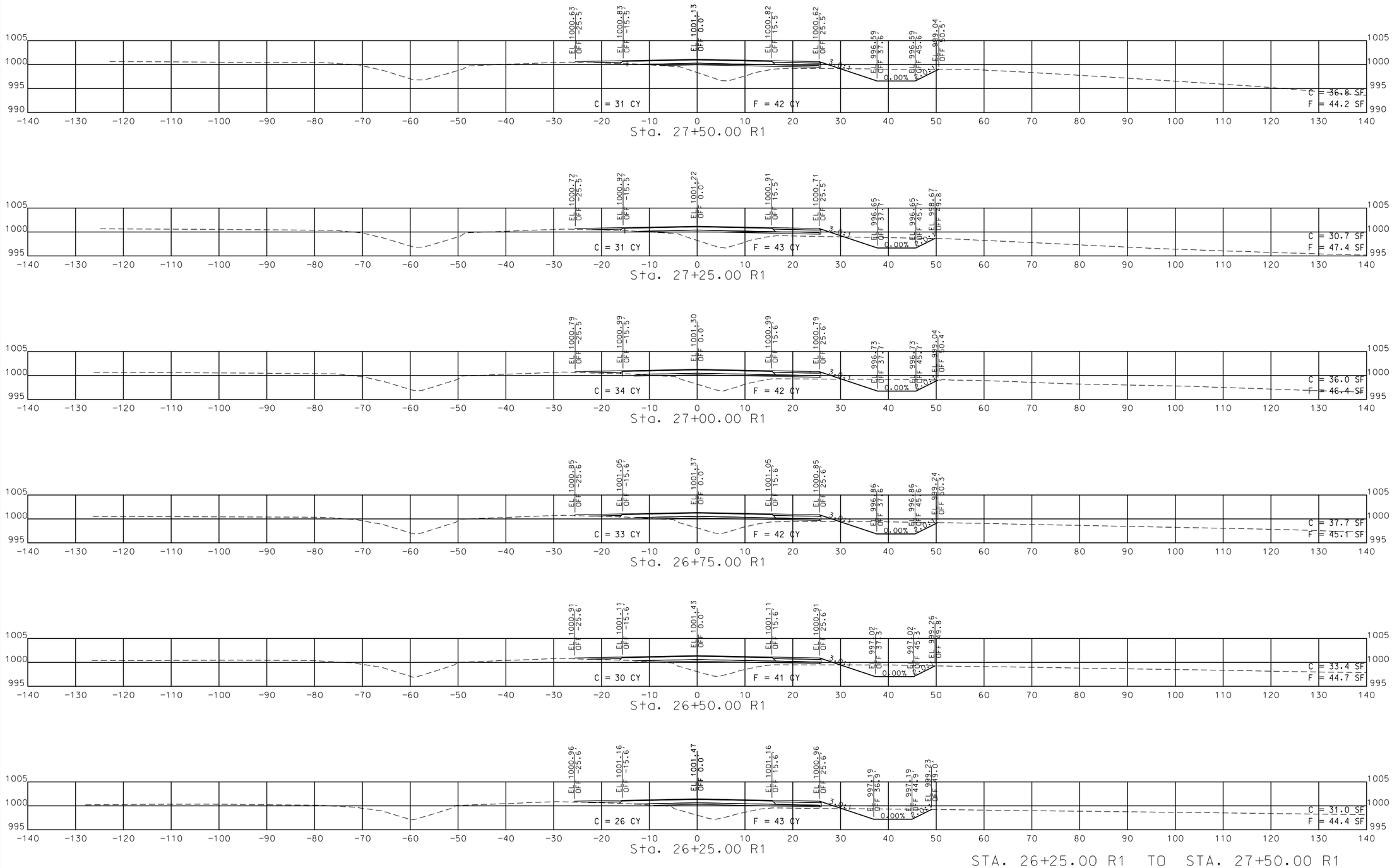
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



STA. 26+25.00 R1 TO STA. 27+50.00 R1

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	18

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

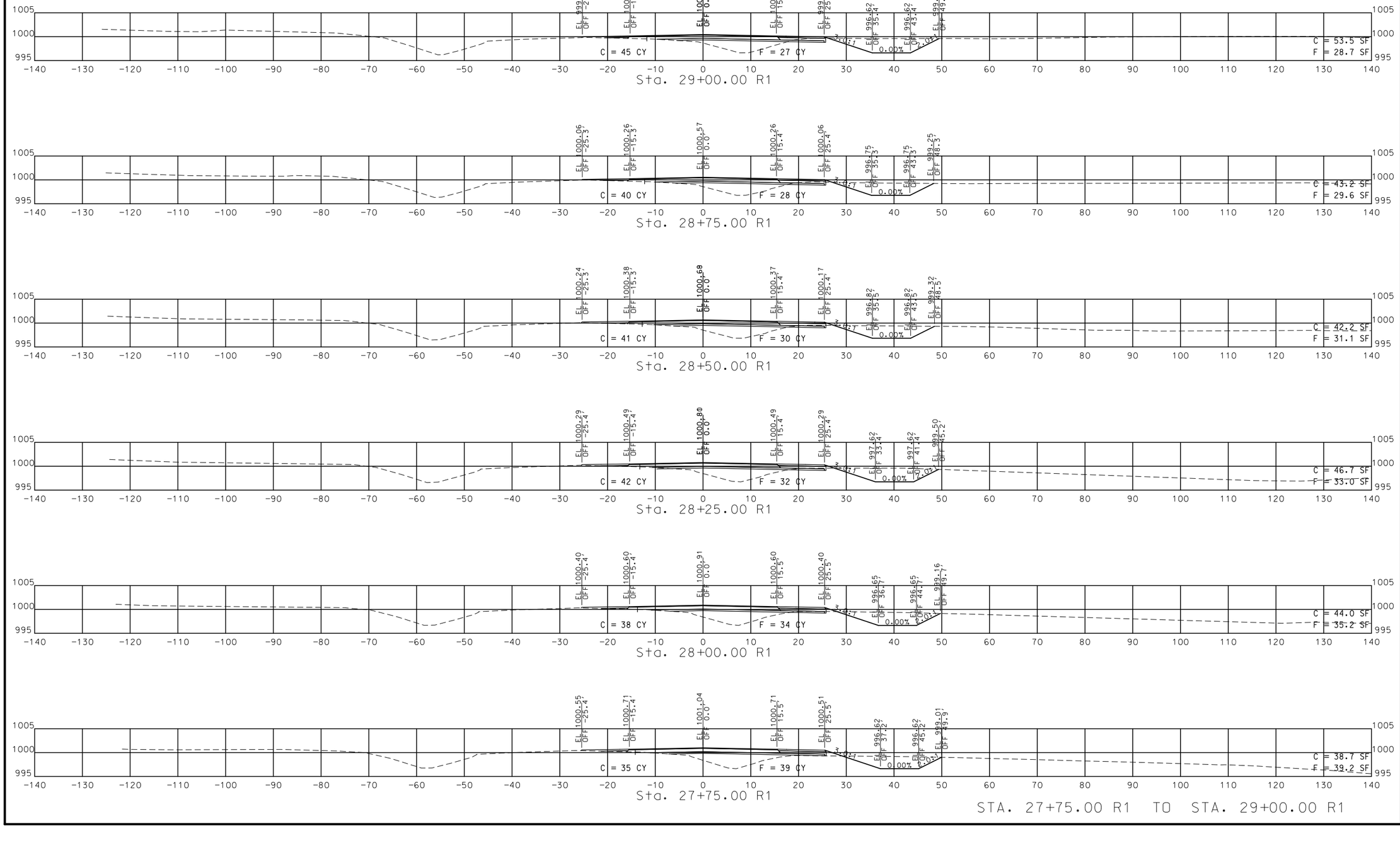
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



STA. 27+75.00 R1 TO STA. 29+00.00 R1

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	19

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

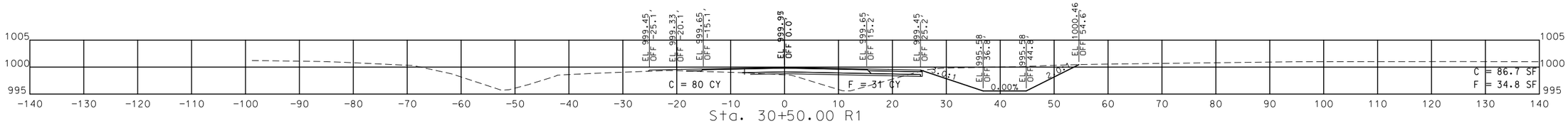
BRIDGE NO.

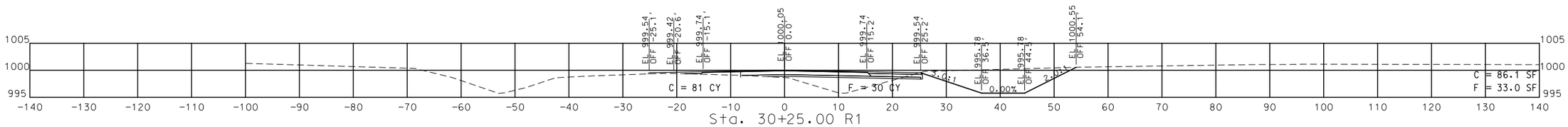
DESCRIPTION	DATE

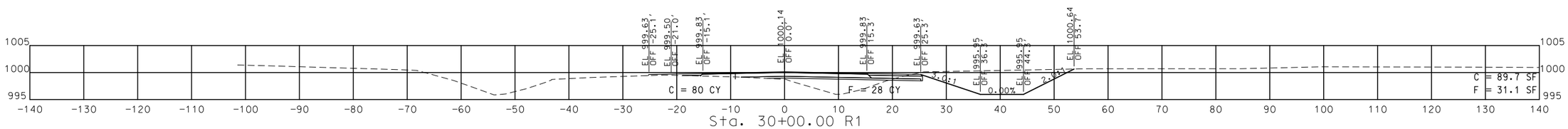
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

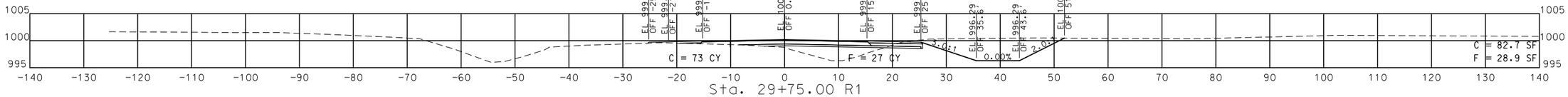
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

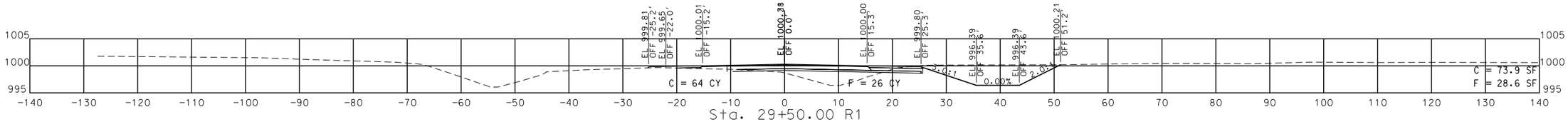
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

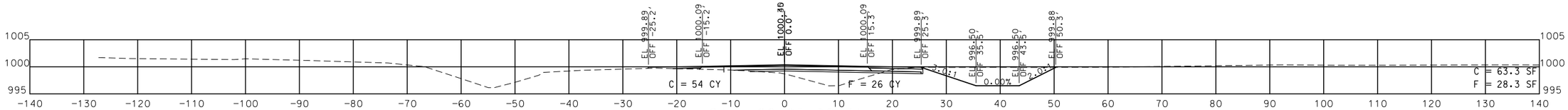












STA. 29+25.00 R1 TO STA. 30+50.00 R1

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	20

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

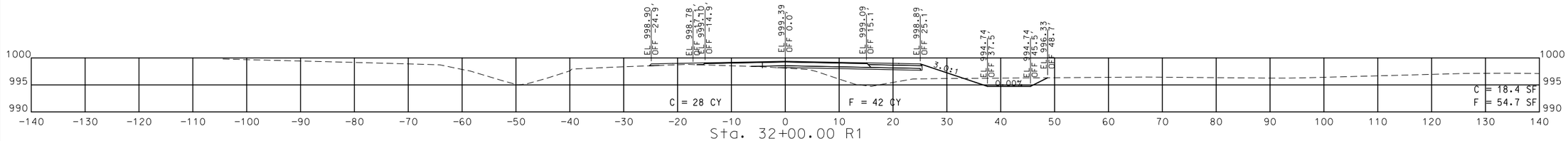
BRIDGE NO.

DESCRIPTION	DATE

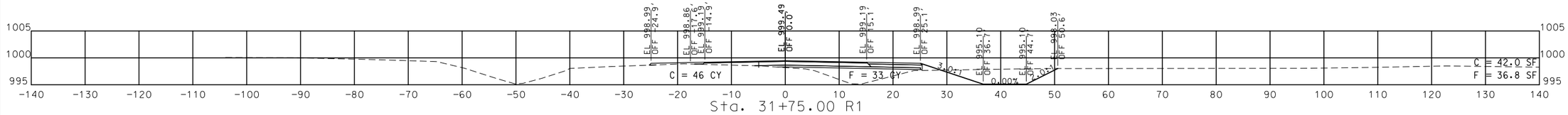
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

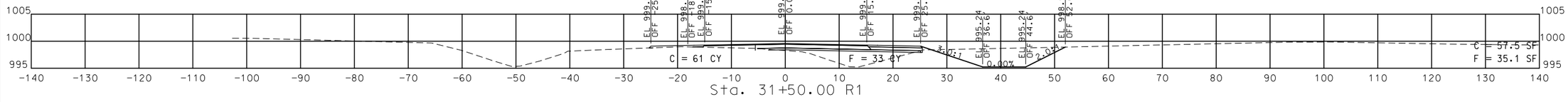
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



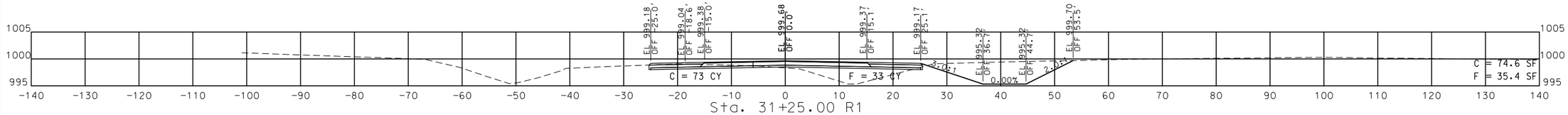
Sta. 32+00.00 R1



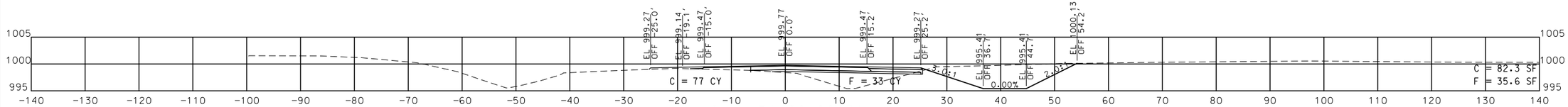
Sta. 31+75.00 R1



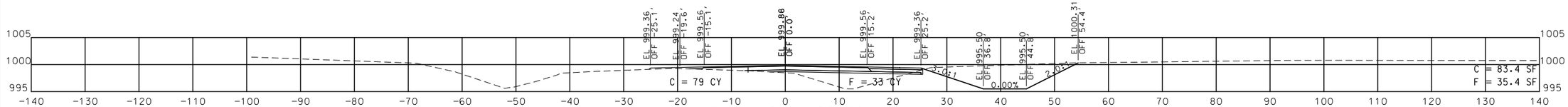
Sta. 31+50.00 R1



Sta. 31+25.00 R1



Sta. 31+00.00 R1



Sta. 30+75.00 R1

STA. 30+75.00 R1 TO STA. 32+00.00 R1

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

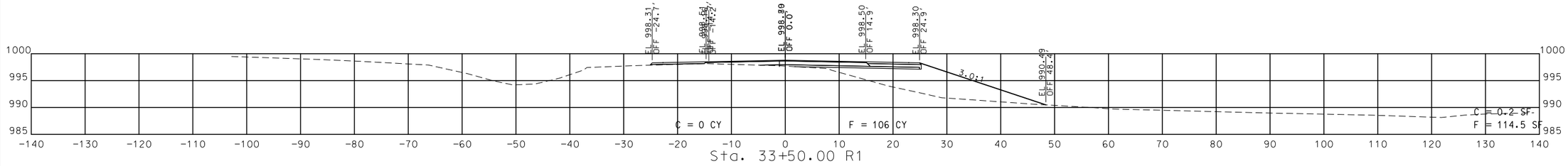
DATE PREPARED	3/7/2016
ROUTE	60
STATE	MO
DISTRICT	SW
SHEET NO.	21
COUNTY	NEWTON
JOB NO.	J7P3086
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION | DATE

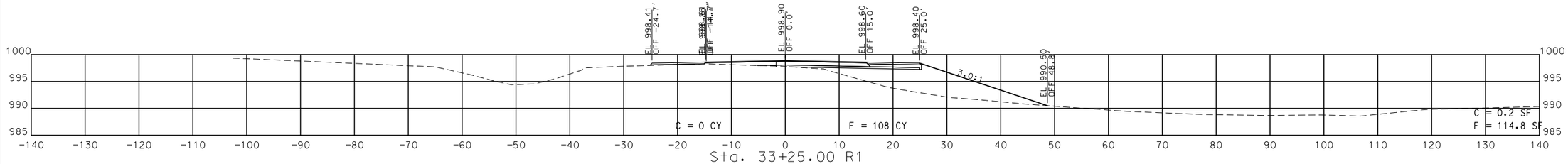
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

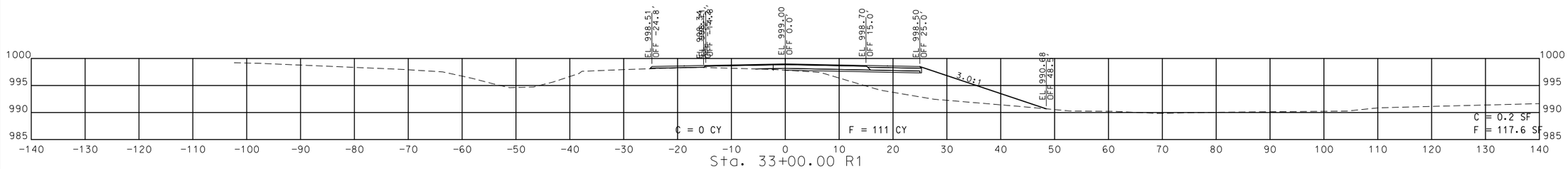
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



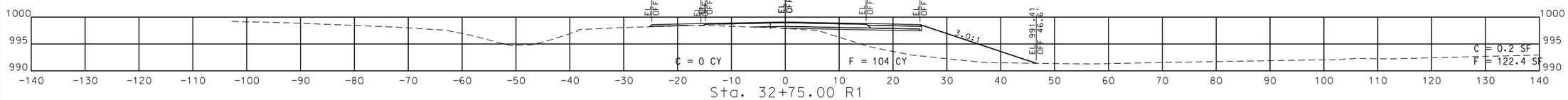
Sta. 33+50.00 R1



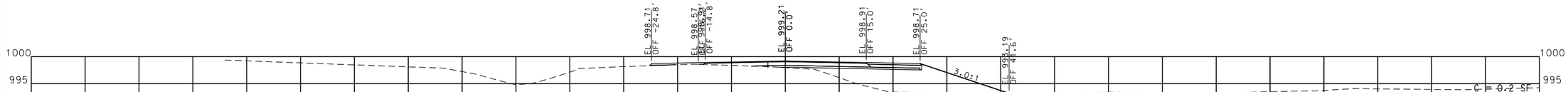
Sta. 33+25.00 R1



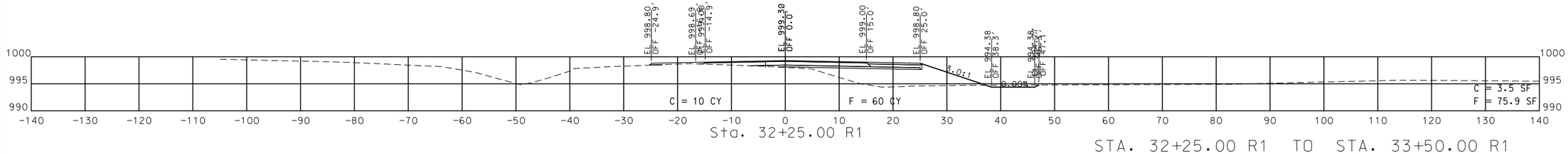
Sta. 33+00.00 R1



Sta. 32+75.00 R1



Sta. 32+50.00 R1



Sta. 32+25.00 R1

STA. 32+25.00 R1 TO STA. 33+50.00 R1

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	22

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

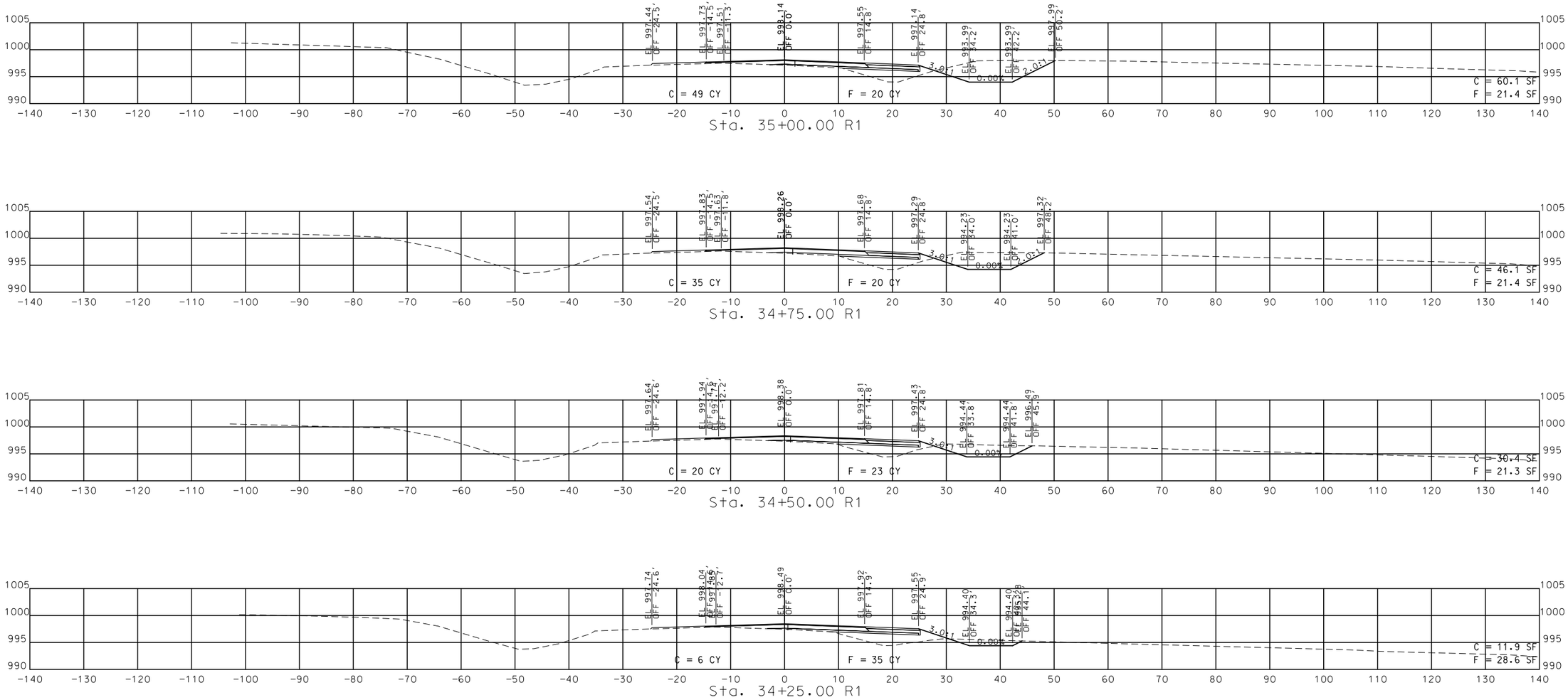
PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	23

COUNTY: NEWTON

JOB NO.: J7P3086

CONTRACT ID.:

PROJECT NO.:

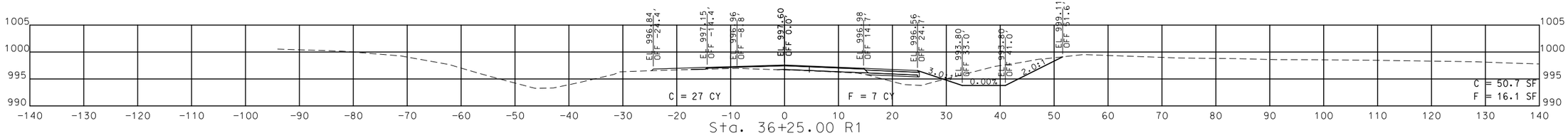
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

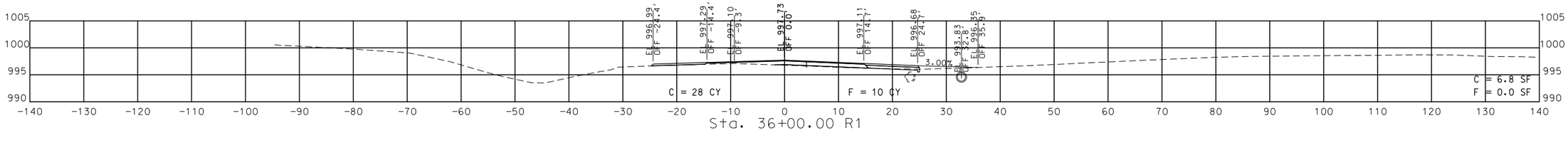
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

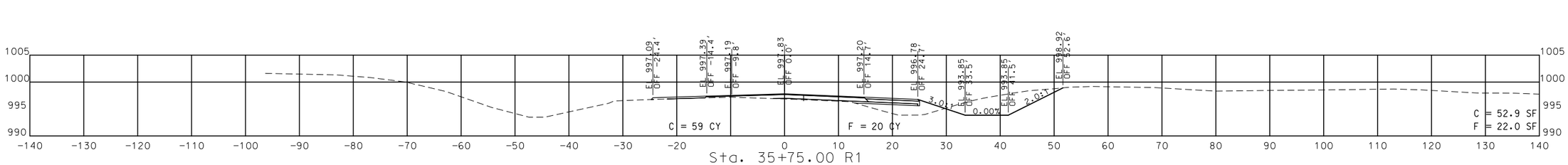
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



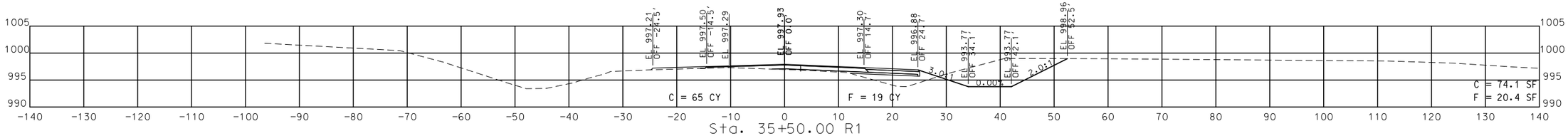
Sta. 36+25.00 R1



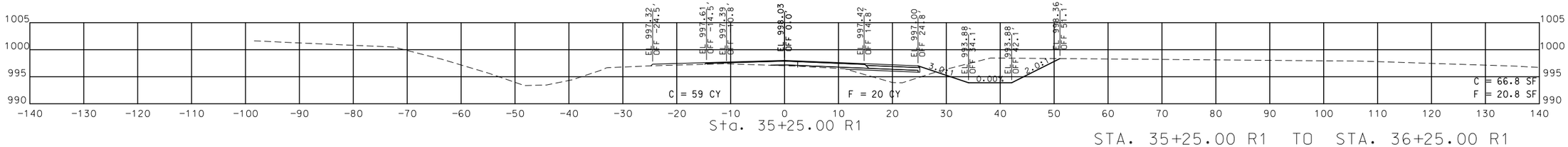
Sta. 36+00.00 R1



Sta. 35+75.00 R1



Sta. 35+50.00 R1



Sta. 35+25.00 R1

STA. 35+25.00 R1 TO STA. 36+25.00 R1

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	24

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

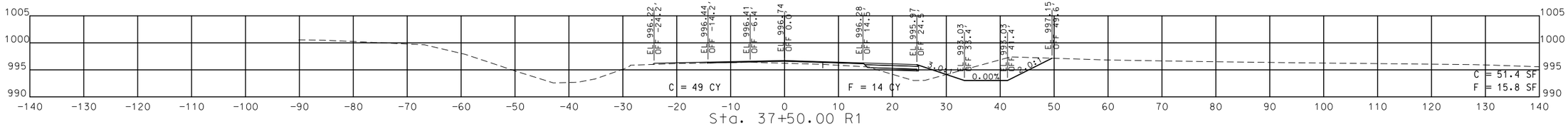
BRIDGE NO.

DATE	DESCRIPTION

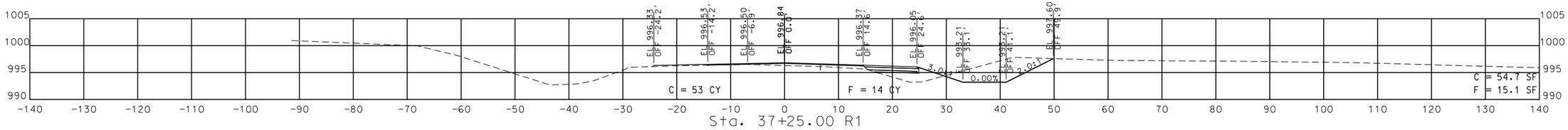
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

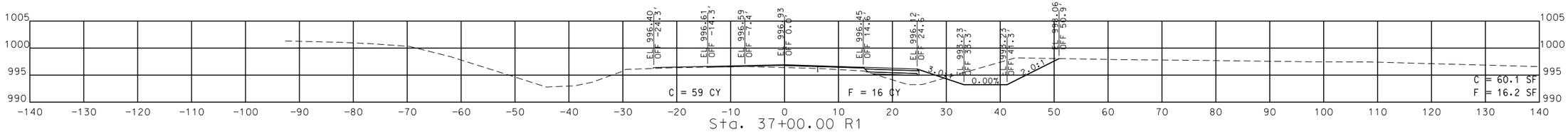
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



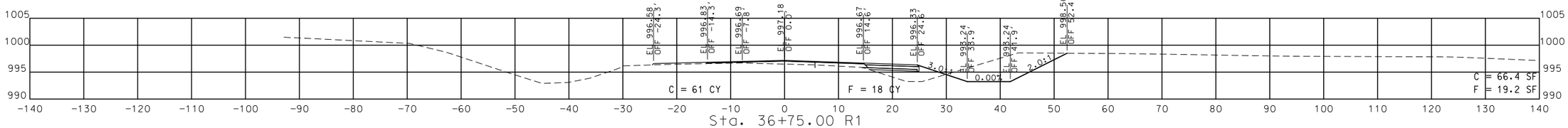
Sta. 37+50.00 R1



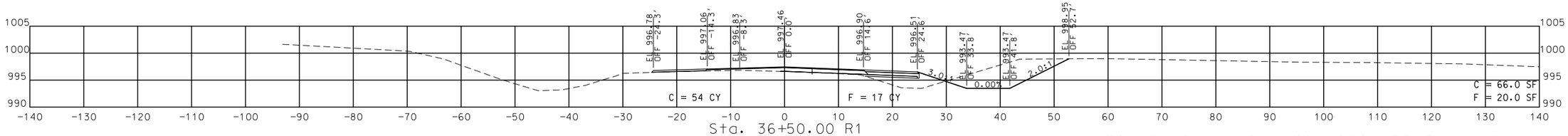
Sta. 37+25.00 R1



Sta. 37+00.00 R1



Sta. 36+75.00 R1



Sta. 36+50.00 R1

STA. 36+50.00 R1 TO STA. 37+50.00 R1

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	25

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

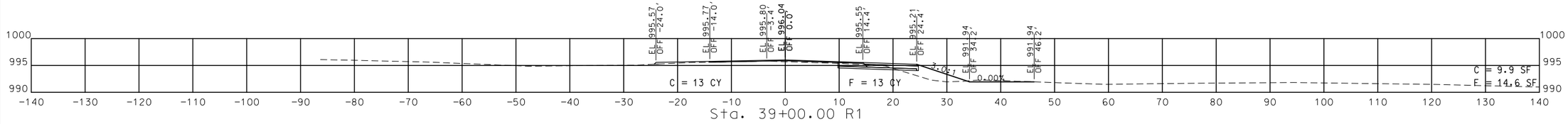
BRIDGE NO.

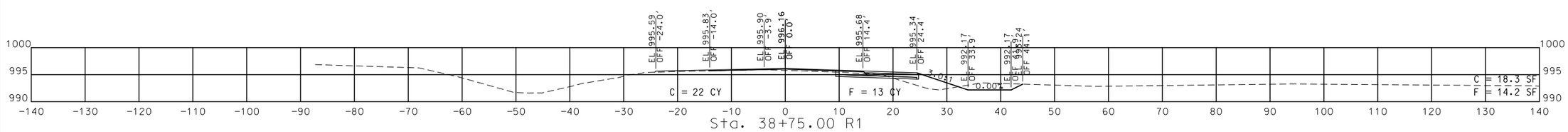
DATE	DESCRIPTION

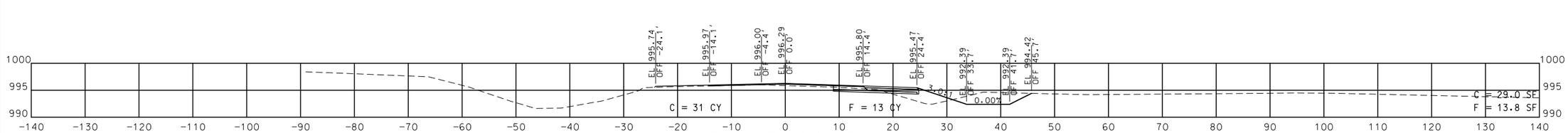
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

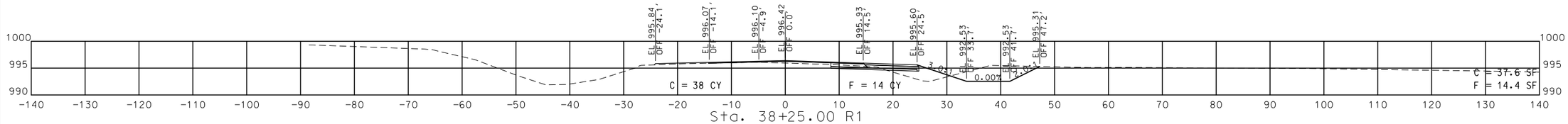
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

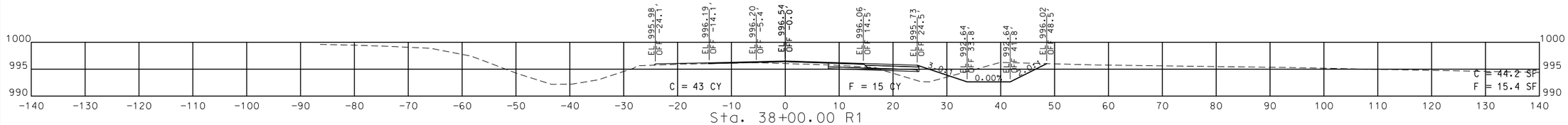
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

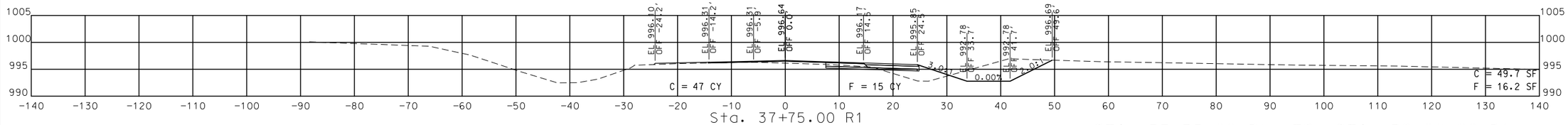












STA. 37+75.00 R1 TO STA. 39+00.00 R1

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	26

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

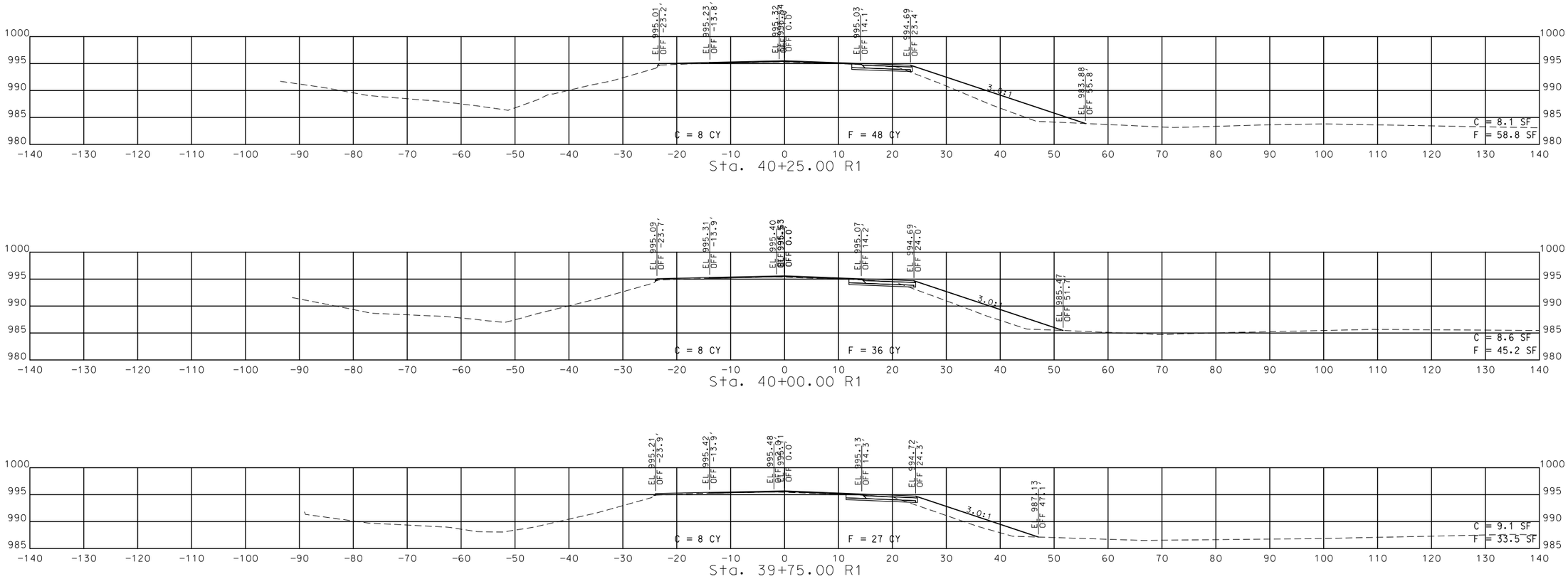
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	27

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

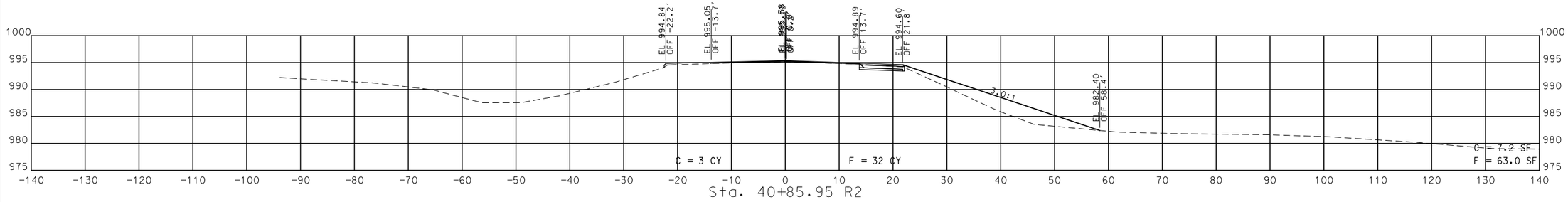
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	28

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

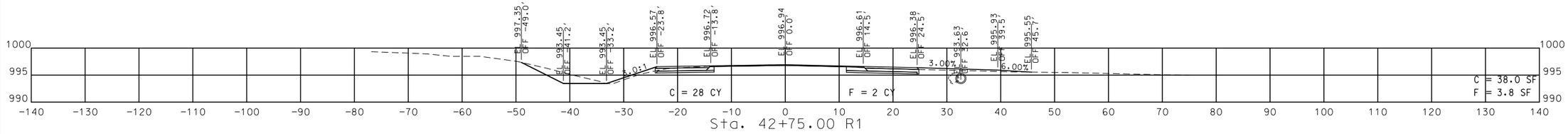
PROJECT NO.

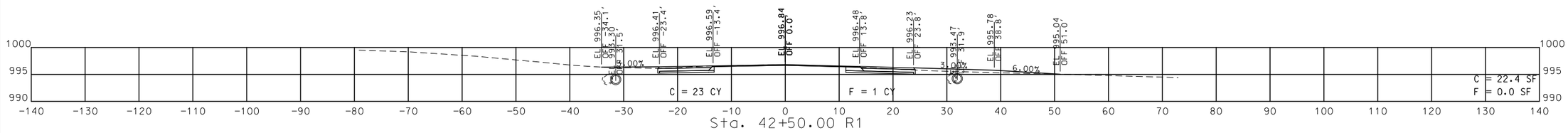
BRIDGE NO.

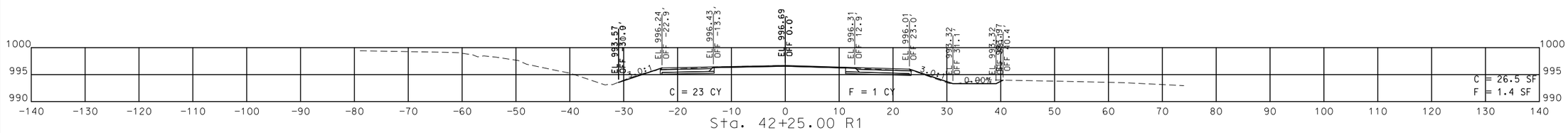
DATE	DESCRIPTION

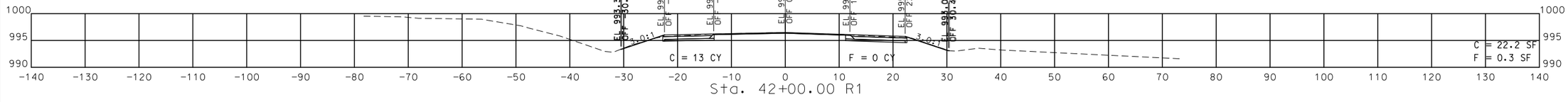
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

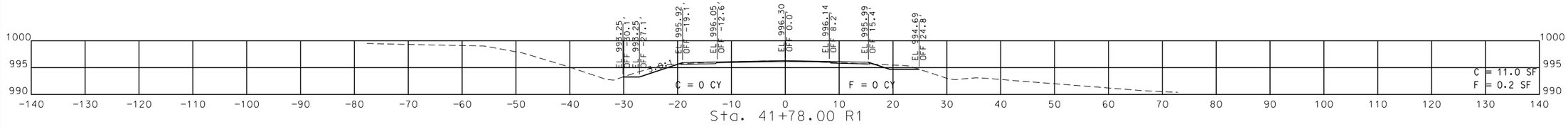
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

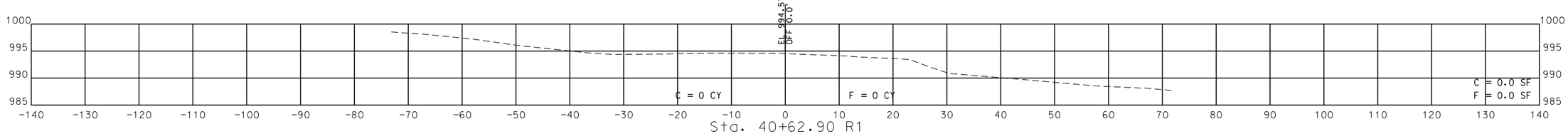












STA. 40+62.90 R1 TO STA. 42+75.00 R1

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	29

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

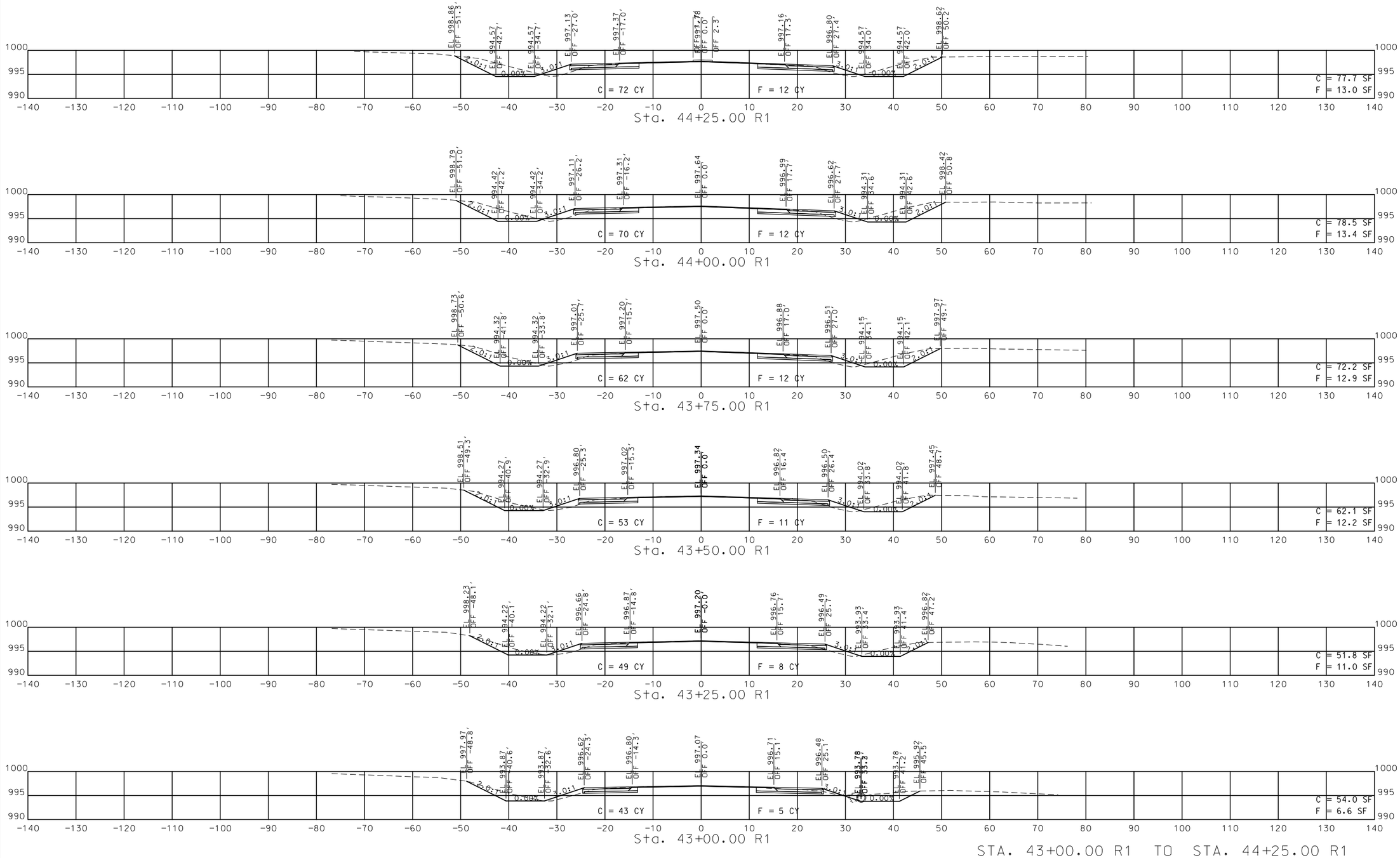
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



STA. 43+00.00 R1 TO STA. 44+25.00 R1

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

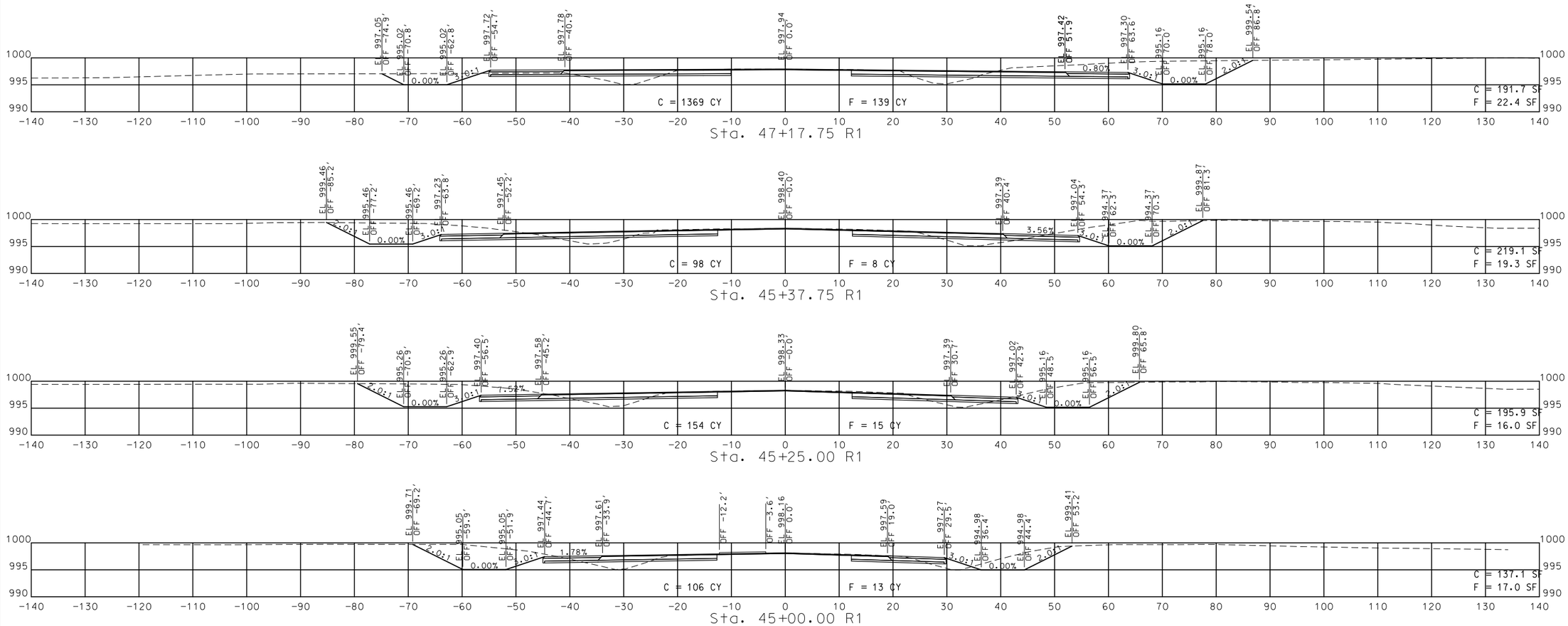
DATE PREPARED	
3/7/2016	
ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	30
COUNTY	
NEWTON	
JOB NO.	
J7P3086	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



STA. 44+50.00 R1 TO STA. 47+17.75 R1

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	31

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

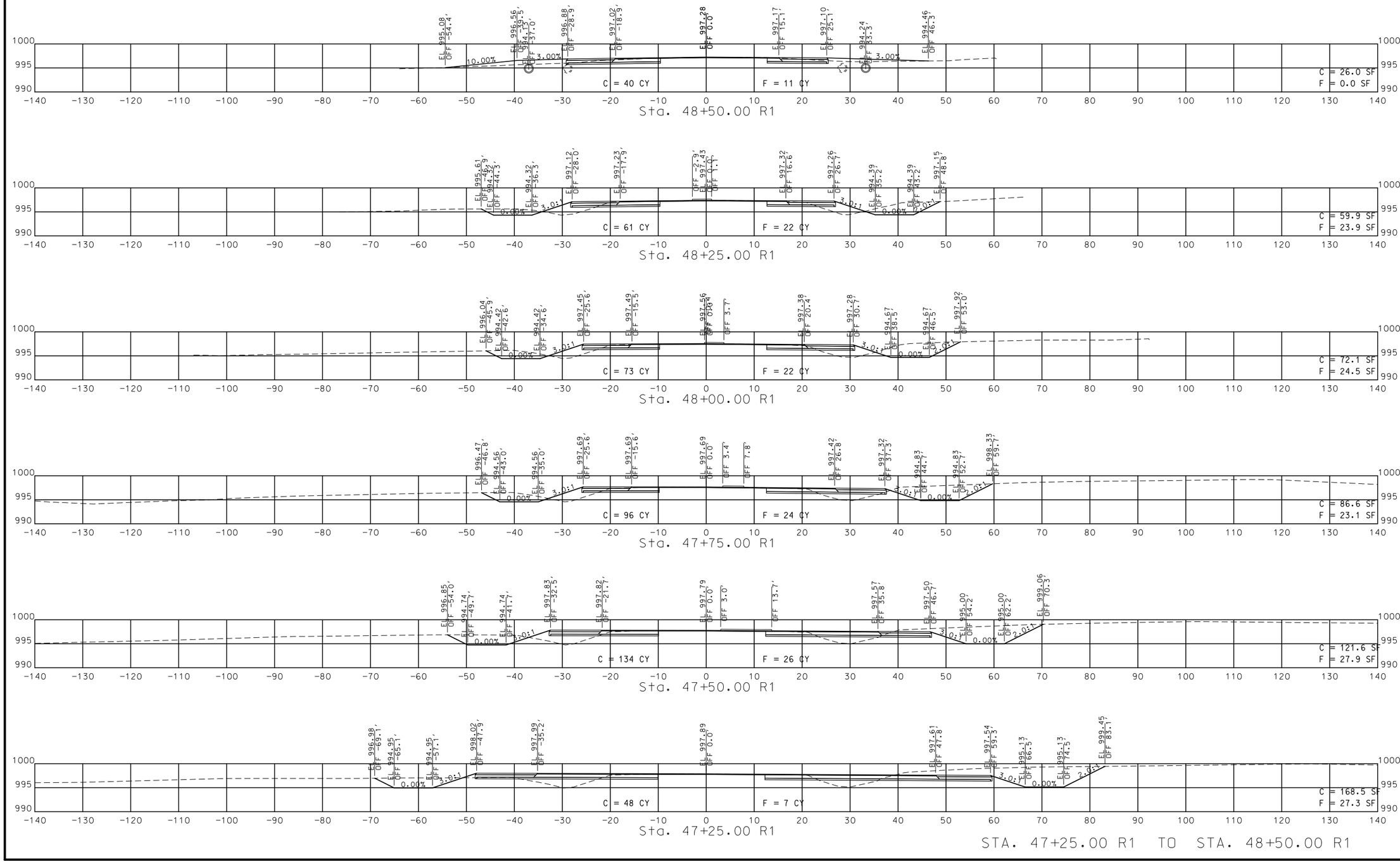
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	32

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

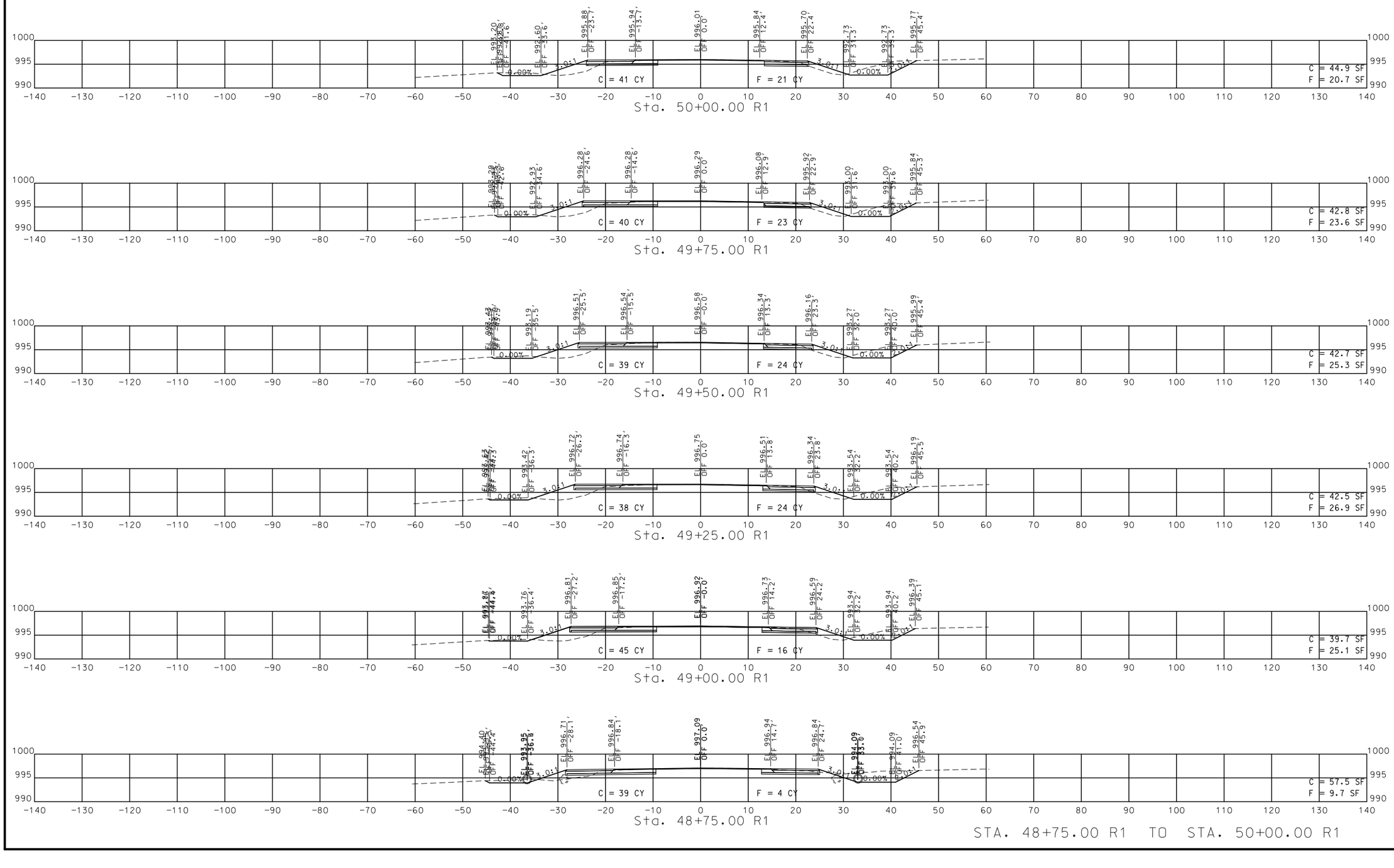
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



STA. 48+75.00 R1 TO STA. 50+00.00 R1

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	33

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

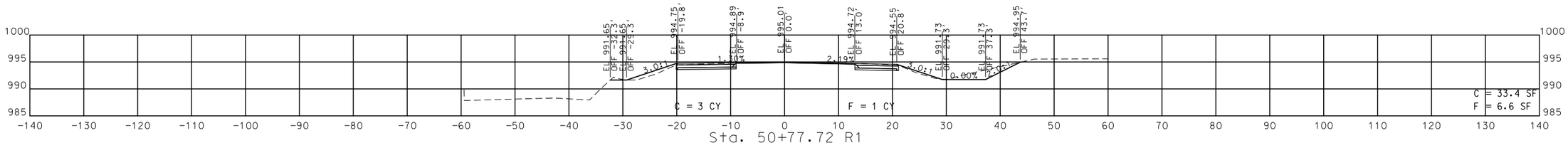
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



STA. 50+25.00 R1 TO STA. 50+77.72 R1

STATE OF MISSOURI
SEAN LEE MATLOCK
NUMBER PE-27133
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/7/2016

ROUTE	STATE
60	MO
DISTRICT	SHEET NO.
SW	34

COUNTY
NEWTON

JOB NO.
J7P3086

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

DESIGN DESIGNATION

A.A.D.T. – 2018 = 12,053
A.A.D.T. – 2038 = 13,317
D.H.V. = 8.40%
T = 11.72%
V = 45,50,55,60 M.P.H.
D = 50.4% / 49.6%
FUNCTIONAL CLASSIFICATION – PRINCIPAL ARTERIAL

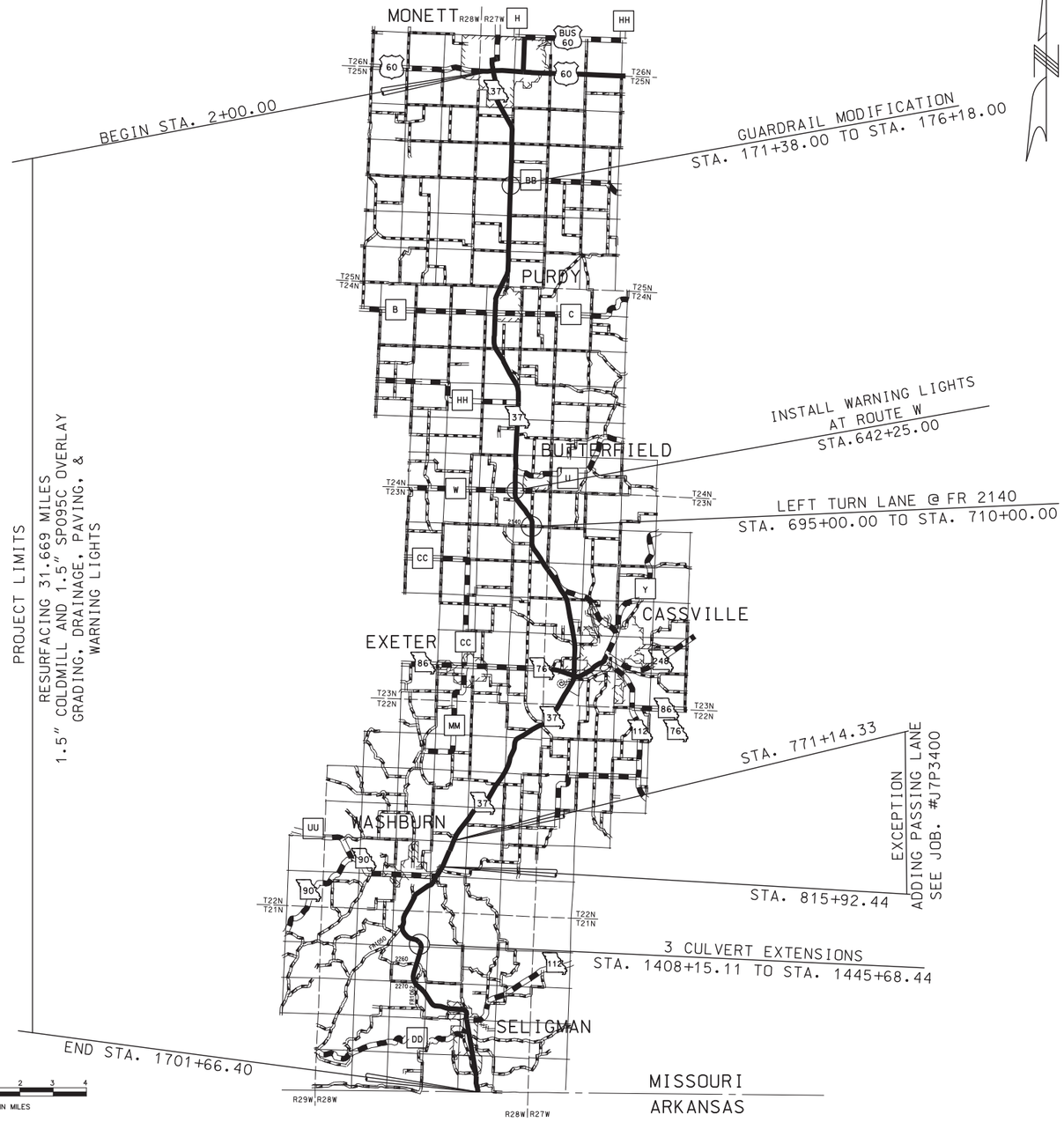
NORMAL ACCESS R/W

CONVENTIONAL SYMBOLS
(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	FO
OVERHEAD CABLE TV	-OTV-	OTV
UNDERGROUND CABLE TV	-UTV-	UTV
OVERHEAD TELEPHONE	-OT-	OT
UNDERGROUND TELEPHONE	-UT-	UT
OVERHEAD POWER	-OE-	OE
UNDERGROUND POWER	-UE-	UE
SANITARY SEWER	-S-	S
STORM SEWER	-SS-	SS
GAS	-G-	G
WATER	-W-	W
MANHOLE	SAN	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
DROP INLET	D	
DITCH BLOCK		
GROUND MOUNTED SIGN	SIGN	
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL	PED	
FENCE		
CHAIN LINK	-V-	
WOVEN WIRE	-X-	
GATE POST		
BENCHMARK	BM	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED STATE HIGHWAY
BARRY COUNTY



THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. IT IS, THEREFORE, THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, LOCATION AND STATUS OF ANY FACILITY. SUCH VERIFICATION INCLUDES DIRECT CONTACT WITH THE LISTED UTILITIES.

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (11 SHEETS)	2
QUANTITIES (QU) (16 SHEETS)	3
SPECIAL SHEETS (SS)	4-54
COORDINATE POINTS (CP)	55
TRAFFIC CONTROL SHEETS (TC)	56-63
EROSION CONTROL SHEETS (EC)	64-68
LIGHTING (LT)	69-71
SIGNING (SN)	72-74
CULVERT SECTIONS (CS)	75-78
CROSS SECTIONS (XS)	1-42

LENGTH OF PROJECT

BEGINNING OF PROJECT STA. 2+00.00
END OF PROJECT STA. 1701+66.40

APPARENT LENGTH 169,966.40 FEET

EQUATIONS AND EXCEPTIONS:

EQUATIONS :
FROM ROUTE 60 TO N/O WASHBURN (ALIGNMENT FROM OLD PLANS)
STA. 97+78.01 BK. = STA. 97+85.85 AH.
STA. 312+58.88 BK. = STA. 312+63.75 AH.
STA. 352+45.44 BK. = STA. 353+25.66 AH.
STA. 817+54.55 BK. = STA. 817+58.33 AH.
STA. 957+16.61 BK. = STA. 480+73.00 AH.
STA. 580+54.78 BK. = STA. 580+34.40 AH.
STA. 613+81.26 BK. = STA. 614+01.08 AH.
STA. 712+69.65 BK. = STA. 713+14.60 AH.

EXCEPTION (FOR NEW PASSING LANE)
STA. 771+17.33 TO STA. 815+92.44
EQ. STA. 780+40.85 BK = STA. 780+52.71 AH.

THRU WASHBURN (ALIGNMENT FROM SURVEY DATA)
STA. 819+93.00 BK. = STA. 1272+50.00 AH.

S/O WASHBURN TO N/O SELIGMAN (ALIGNMENT FROM OLD PLANS)
STA. 1325+57.01 BK. = STA. 1325+58.00 AH.
STA. 1342+00.03 BK. = STA. 1345+64.70 AH.
STA. 1364+91.22 BK. = STA. 1365+33.10 AH.
STA. 1404+17.60 BK. = STA. 1405+83.00 AH.
STA. 1538+60.63 BK. = STA. 1538+77.17 AH.

TOTAL CORRECTIONS -2,753.25 FEET
NET LENGTH OF PROJECT 167,213.15 FEET
STATE LENGTH 31.669 MILES
FOR INFORMATION ONLY
ESTIMATED DISTURBED ACRES 3 AC.

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

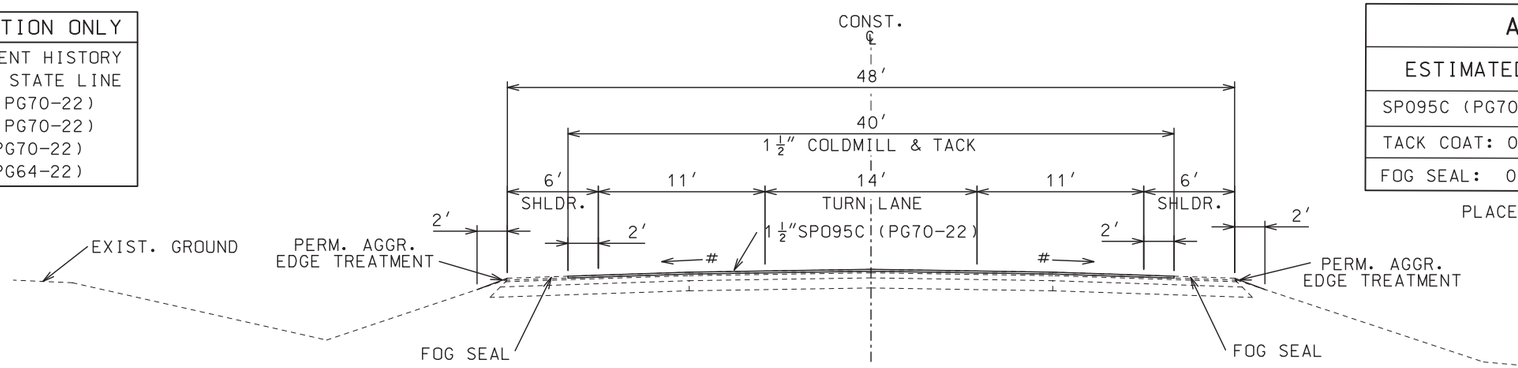
DATE PREPARED 3/17/2020
ROUTE 37 | STATE MO
DISTRICT SW | SHEET NO. 1
COUNTY BARRY
JOB NO. J7P3120
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FOR INFORMATION ONLY
RTE. 37 PAVEMENT HISTORY
STA. 54+83 TO STATE LINE
1½" SP095C (PG70-22)
1¼" SP125C (PG70-22)
4" SP190C (PG70-22)
8" SP250C (PG64-22)

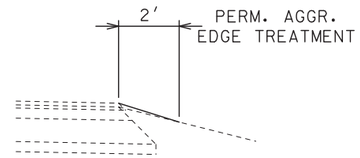


SECTION ON TANGENT
ROUTE 37
STA. 54+38.00 TO STA. 68+00.00
STA. 71+91.80 TO STA. 91+79.00

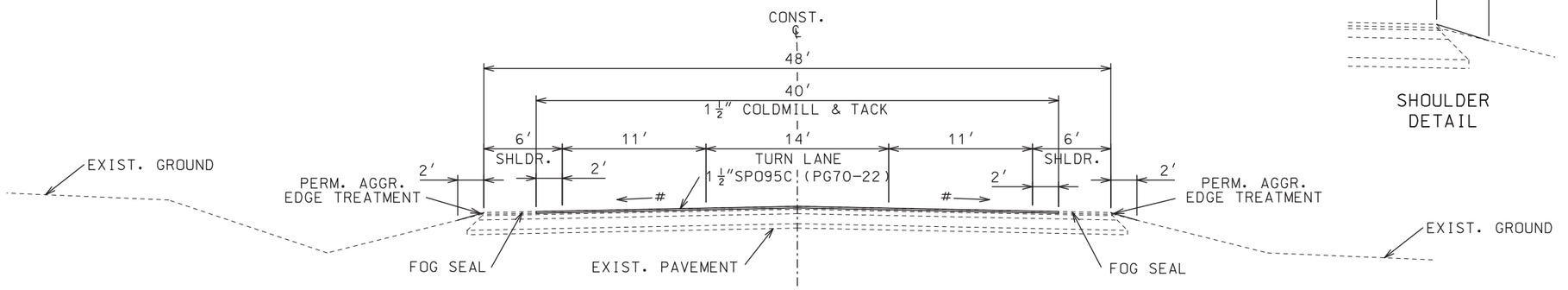
ASPHALT FACTORS		
ESTIMATED PAVEMENT FACTORS		% AC
SP095C (PG70-22)	1.960 TONS/CY	5.7%
TACK COAT: 0.10 GAL/SY		
FOG SEAL: 0.25 GAL/SY		

PLACEMENT – ONE PASS PER LANE
NO S.E. CORRECTION

MATCH EXISTING SLOPE



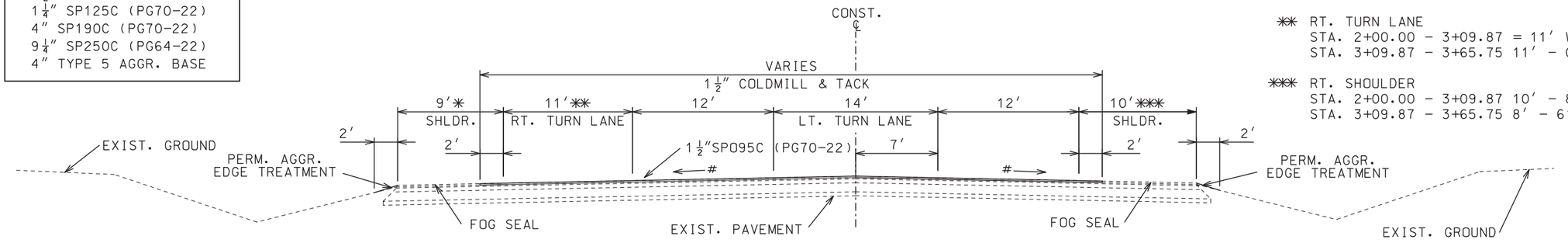
SHOULDER DETAIL



SECTION ON TANGENT
ROUTE 37
STA. 3+65.75 TO STA. 54+38.00

MATCH EXISTING SLOPE

FOR INFORMATION ONLY
RTE. 37 PAVEMENT HISTORY
STA. 2+00 TO STA. 54+38
1½" SP095C (PG70-22)
1¼" SP125C (PG70-22)
4" SP190C (PG70-22)
9¼" SP250C (PG64-22)
4" TYPE 5 AGGR. BASE



SECTION ON TANGENT
ROUTE 37
STA. 2+00.00 TO STA. 3+65.75

MATCH EXISTING SLOPE

* LT. SHOULDER
STA. 2+00.00 – 2+86.68 = 9′ WIDE
STA. 2+86.68 – 3+09.87 = 9′ – 4′ WIDE
STA. 3+09.87 – 3+56.86 = 4′ WIDE
STA. 3+56.86 – 3+65.75 = 4′ – 6′ WIDE

** RT. TURN LANE
STA. 2+00.00 – 3+09.87 = 11′ WIDE
STA. 3+09.87 – 3+65.75 11′ – 0′ WIDE

*** RT. SHOULDER
STA. 2+00.00 – 3+09.87 10′ – 8′ WIDE
STA. 3+09.87 – 3+65.75 8′ – 6′ WIDE

NOTE:
NO ADDITIONAL PAYMENT WILL BE MADE FOR ADDITIONAL COLDMILLING (UP TO 3") REQUIRED TO REMOVE ENTIRE TOP LIFT DUE TO DELAMINATION. THIS APPLIES TO ENTIRE PROJECT LIMITS.

ROUTE 37
TYPICAL SECTION
SHEET 1 OF 11

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/16/2020
ROUTE 37 | STATE MO
DISTRICT SW | SHEET NO. 2
COUNTY BARRY
JOB NO. J7P3120
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

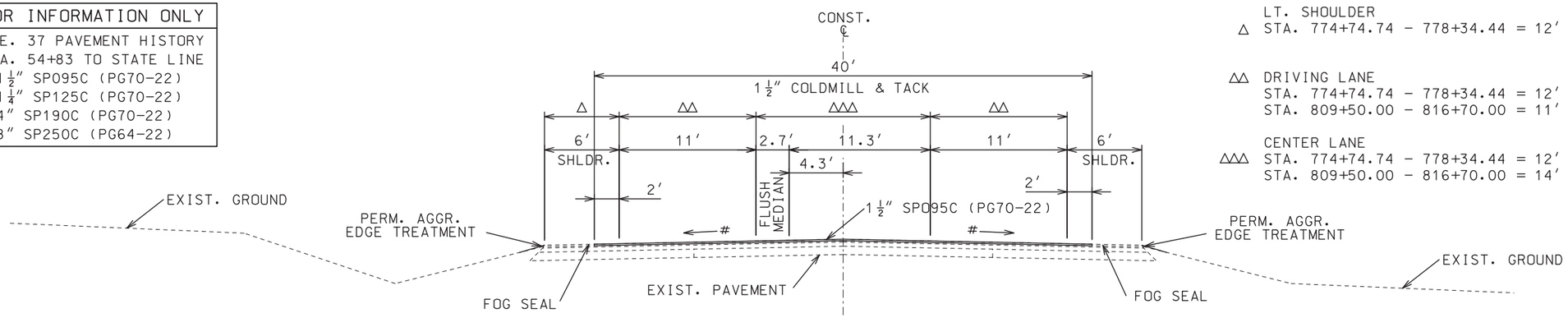
DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.

FOR INFORMATION ONLY
RTE. 37 PAVEMENT HISTORY
STA. 54+83 TO STATE LINE
1½" SP095C (PG70-22)
1¼" SP125C (PG70-22)
4" SP190C (PG70-22)
8" SP250C (PG64-22)



△ LT. SHOULDER
STA. 774+74.74 - 778+34.44 = 12′ - 6′ WIDE

△△ DRIVING LANE
STA. 774+74.74 - 778+34.44 = 12′ - 11′ WIDE
STA. 809+50.00 - 816+70.00 = 11′ - 12′ WIDE

△△△ CENTER LANE
STA. 774+74.74 - 778+34.44 = 12′ - 14′ WIDE
STA. 809+50.00 - 816+70.00 = 14′ - 12′ WIDE

SECTION ON TANGENT

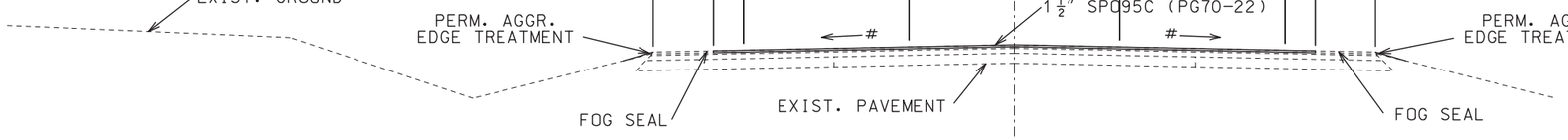
ROUTE 37
STA. 91+79.00 TO STA. 157+18.00
STA. 266+80.00 TO STA. 298+30.00
STA. 774+74.74 TO STA. 816+70.00

MATCH EXISTING SLOPE

EQUATIONS:
STA. 97+78.01 BK. = STA. 97+85.85 AH.

ASPHALT FACTORS	
ESTIMATED PAVEMENT FACTORS	% AC
SP095C (PG70-22) 1.960 TONS/CY	5.7%
TACK COAT: 0.10 GAL/SY	
FOG SEAL: 0.25 GAL/SY	

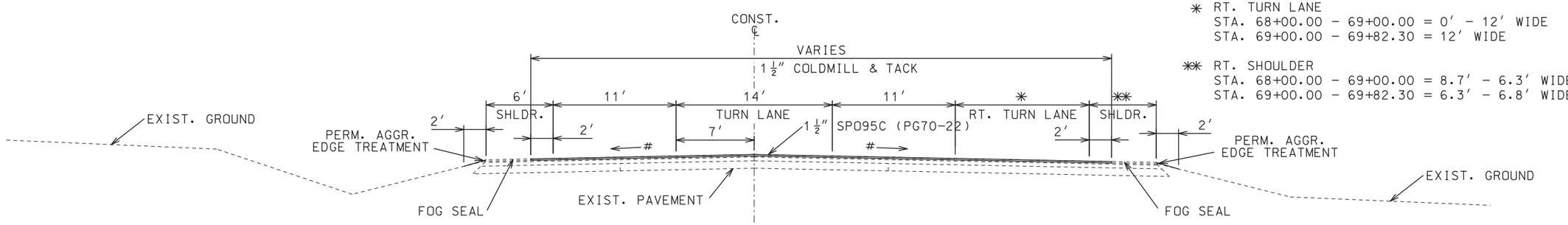
PLACEMENT - ONE PASS PER LANE
NO S.E. CORRECTION



SECTION ON TANGENT

ROUTE 37
STA. 254+00.00 TO STA. 266+00.00

MATCH EXISTING SLOPE



* RT. TURN LANE
STA. 68+00.00 - 69+00.00 = 0′ - 12′ WIDE
STA. 69+00.00 - 69+82.30 = 12′ WIDE

** RT. SHOULDER
STA. 68+00.00 - 69+00.00 = 8.7′ - 6.3′ WIDE
STA. 69+00.00 - 69+82.30 = 6.3′ - 6.8′ WIDE

SECTION ON TANGENT

ROUTE 37
STA. 68+00.00 TO STA. 71+91.80

MATCH EXISTING SLOPE

NOTE:
NO ADDITIONAL PAYMENT WILL BE MADE FOR ADDITIONAL COLDMILLING (UP TO 3") REQUIRED TO REMOVE ENTIRE TOP LIFT DUE TO DELAMINATION. THIS APPLIES TO ENTIRE PROJECT LIMITS.

ROUTE 37
TYPICAL SECTION
SHEET 2 OF 11

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/16/2020
ROUTE 37 | STATE MO
DISTRICT SW | SHEET NO. 2
COUNTY BARRY
JOB NO. J7P3120
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE | REV.

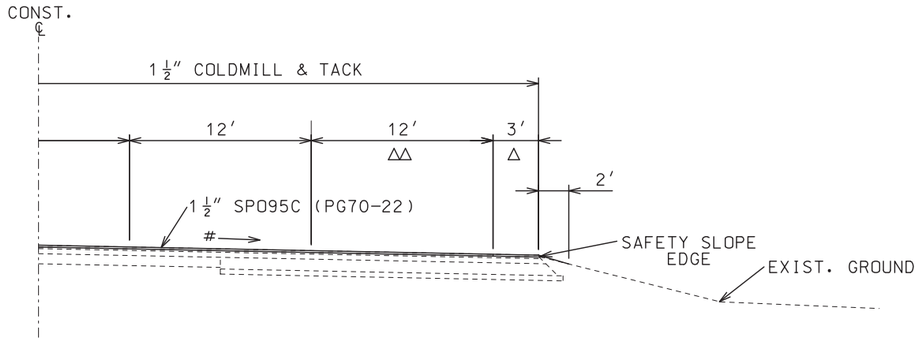
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FOR INFORMATION ONLY
RTE. 37 PAVEMENT HISTORY
STA. 54+83 TO STATE LINE
1½" SP095C (PG70-22)
1¼" SP125C (PG70-22)
4" SP190C (PG70-22)
8" SP250C (PG64-22)

ASPHALT FACTORS		
ESTIMATED PAVEMENT FACTORS		% AC
SP095C (PG70-22)	1.960 TONS/CY	5.7%
TACK COAT: 0.10 GAL/SY		
FOG SEAL: 0.25 GAL/SY		

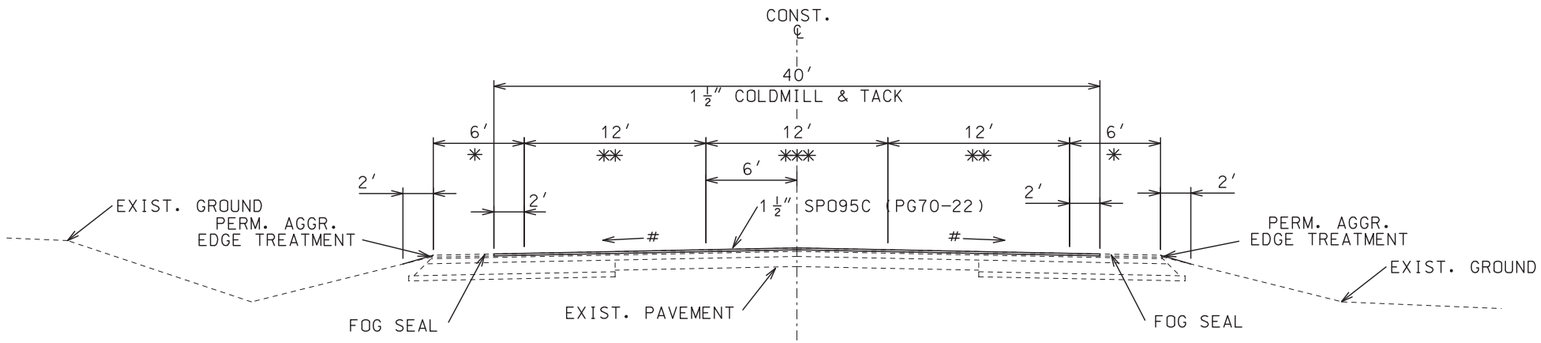
PLACEMENT – ONE PASS PER LANE
NO S.E. CORRECTION



MATCH EXISTING SLOPE

SECTION ON TANGENT
ROUTE 37, RIGHT TURN LANE
STA. 638+47.72 TO STA. 641+18.78
STA. 911+40.87 TO STA. 913+39.35

NOTE:
SHOULDERS THAT ARE 4′WIDE OR LESS
SHOULD BE MILLED & FILLED LIKE
THE DRIVING LANES



MATCH EXISTING SLOPE

SECTION ON TANGENT
ROUTE 37
STA. 157+18.00 TO STA. 175+06.00
STA. 298+30.00 TO STA. 312+85.10
STA. 321+10.00 TO STA. 335+40.00
STA. 362+25.00 TO STA. 376+90.00
STA. 634+83.10 TO STA. 650+66.20
STA. 724+54.00 TO STA. 729+85.00
STA. 816+70.00 TO STA. 820+30.00
STA. 828+05.00 TO STA. 831+64.90
STA. 890+70.00 TO STA. 900+16.00
STA. 907+77.00 TO STA. 922+02.50
STA. 929+74.82 TO STA. 951+88.50

NOTE:
NO ADDITIONAL PAYMENT WILL BE MADE FOR
ADDITIONAL COLDMILLING (UP TO 3") REQUIRED
TO REMOVE ENTIRE TOP LIFT DUE TO DELAMINATION.
THIS APPLIES TO ENTIRE PROJECT LIMITS.

EQUATIONS:
STA. 312+58.88 BK. = STA. 312+63.75 AH.
STA. 817+54.55 BK. = STA. 817+58.33 AH.

Δ SHOULDER
STA. 638+47.72 – 639+50.00 = 10′ – 3′ WIDE
STA. 639+50.00 – 641+18.78 = 3′ WIDE
STA. 911+40.87 – 913+39.35 = 6′ WIDE

ΔΔ RT. TURN LANE
STA. 638+47.72 – 639+50.00 = 0′ – 12′ WIDE
STA. 639+50.00 – 641+18.78 = 12′ WIDE
STA. 911+40.87 – 912+27.40 = 0′ – 12′ WIDE
STA. 912+27.40 – 913+39.35 = 12′WIDE

✳ LT. SHOULDER
STA. 634+83.10 – 638+47.72 = 8′ – 3′ WIDE
STA. 638+47.72 – 645+56.93 = 3′ WIDE
STA. 645+56.93 – 650+66.20 = 3′ – 8′ WIDE
STA. 907+77.00 – 911+40.87 = 12′ – 6′ WIDE

✳ RT. SHOULDER
STA. 634+83.10 – 638+47.72 = 8′ – 10′ WIDE
STA. 638+47.72 – 639+50.00 = 10′ – 3′ WIDE
STA. 639+50.00 – 645+56.93 = 4′ WIDE
STA. 645+56.93 – 650+66.20 = 4′ – 8′ WIDE
STA. 907+77.00 – 911+40.87 = 12′ – 8′ WIDE

✳ RT. & LT. SHOULDER
STA. 171+46.00 – 175+06.00 = 6′ – 12′ WIDE
STA. 309+26.00 – 312+85.10 = 6′ – 12′ WIDE
STA. 321+10.00 – 324+70.00 = 12′ – 6′ WIDE
STA. 331+80.00 – 335+40.00 = 6′ – 12′ WIDE
STA. 362+25.00 – 365+85.00 = 12′ – 6′ WIDE
STA. 373+30.00 – 376+90.00 = 6′ – 12′ WIDE
STA. 724+54.00 – 727+64.89 = 12′ – 6′ WIDE
STA. 816+70.00 – 820+30.00 = 6′ – 12′ WIDE
STA. 828+05.00 – 831+64.90 = 12′ – 6′ WIDE
STA. 896+56.00 – 900+16.00 = 6′ – 12′ WIDE
STA. 918+42.50 – 922+02.50 = 6′ – 12′ WIDE
STA. 929+74.82 – 933+34.82 = 12′ – 6′ WIDE
STA. 936+30.80 – 937+90.80 = 6′ – 10′ WIDE
STA. 937+90.80 – 942+06.06 = 10′ WIDE
STA. 942+06.06 – 945+10.94 = 10′ – 6′ WIDE
STA. 948+28.50 – 951+88.50 = 6′ – 12′ WIDE

✳✳ DRIVING LANE
STA. 157+18.00 – 164+38.00 = 11′ – 12′ WIDE
STA. 298+30.00 – 305+50.00 = 11′ – 12′ WIDE

✳✳✳ CENTER LANE
STA. 157+18.00 – 164+38.00 = 14′ – 12′ WIDE
STA. 171+46.00 – 175+06.00 = 12′ – 0′ WIDE
STA. 298+30.00 – 305+50.00 = 14′ – 12′ WIDE
STA. 309+26.00 – 312+85.10 = 12′ – 0′ WIDE
STA. 321+10.00 – 324+70.00 = 0′ – 12′ WIDE
STA. 331+80.00 – 335+40.00 = 12′ – 0′ WIDE
STA. 362+25.00 – 365+85.00 = 0′ – 12′ WIDE
STA. 373+30.00 – 376+90.00 = 12′ – 0′ WIDE
STA. 634+83.10 – 638+47.72 = 0′ – 12′ WIDE
STA. 645+56.93 – 650+66.20 = 12′ – 0′ WIDE
STA. 724+54.00 – 727+64.89 = 0′ – 12′ WIDE
STA. 816+70.00 – 820+30.00 = 12′ – 0′ WIDE
STA. 828+05.00 – 831+64.90 = 0′ – 12′ WIDE
STA. 896+56.00 – 900+16.00 = 12′ – 0′ WIDE
STA. 907+77.00 – 911+40.87 = 0′ – 12′ WIDE
STA. 918+42.50 – 922+02.50 = 12′ – 0′ WIDE
STA. 929+74.82 – 933+34.82 = 0′ – 12′ WIDE
STA. 948+28.50 – 951+88.50 = 12′ – 0′ WIDE

ROUTE 37
TYPICAL SECTION
SHEET 3 OF 11

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/16/2020
ROUTE: 37 | STATE: MO
DISTRICT: SW | SHEET NO.: 2
COUNTY: BARRY
JOB NO.: J7P3120
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE | REV.

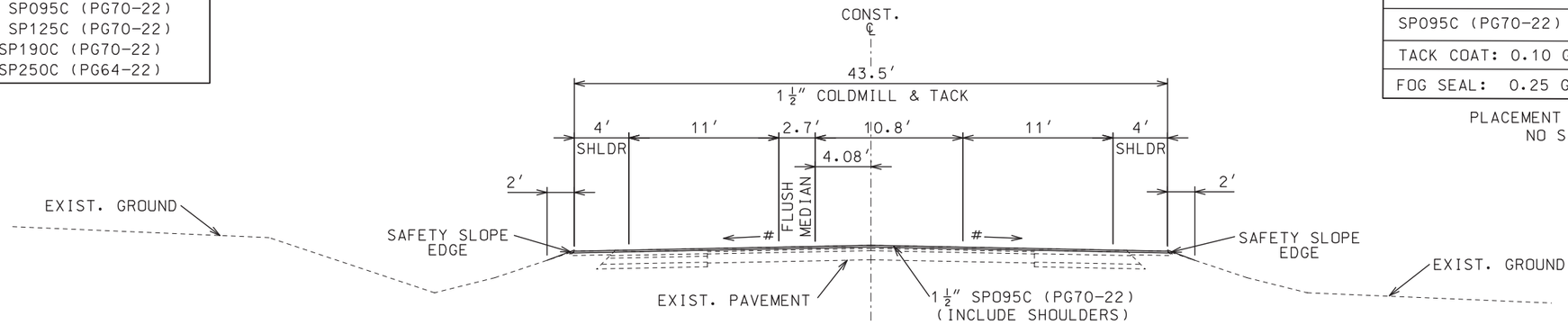
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

FOR INFORMATION ONLY
RTE. 37 PAVEMENT HISTORY
STA. 54+83 TO STATE LINE
1½″ SP095C (PG70-22)
1¼″ SP125C (PG70-22)
4″ SP190C (PG70-22)
8″ SP250C (PG64-22)

ASPHALT FACTORS		
ESTIMATED PAVEMENT FACTORS		% AC
SP095C (PG70-22)	1.960 TONS/CY	5.7%
TACK COAT: 0.10 GAL/SY		
FOG SEAL: 0.25 GAL/SY		

PLACEMENT – ONE PASS PER LANE
NO S.E. CORRECTION



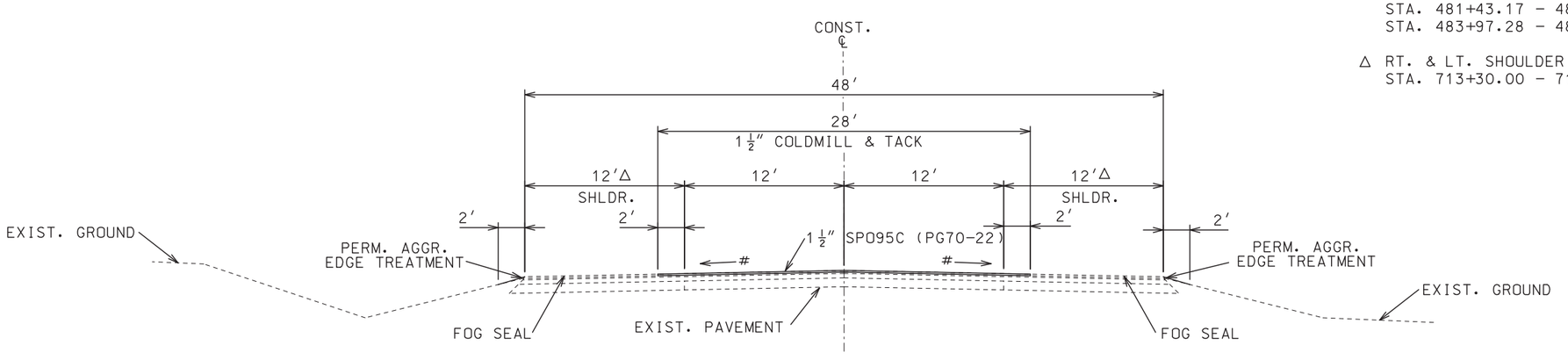
MATCH EXISTING SLOPE

SECTION ON TANGENT
ROUTE 37
STA. 445+84.00 TO STA. 502+15.00
STA. 567+35.00 TO STA. 601+10.00

EQUATION:
STA. 580+54.78 BK. = STA. 580+34.40 AH.

△ RT. SHOULDER
STA. 481+43.17 – 483+97.28 = 12′ – 6′ WIDE
STA. 483+97.28 – 486+23.69 = 6′ WIDE

△ RT. & LT. SHOULDER
STA. 713+30.00 – 715+30.00 = 8′ – 12′ WIDE



MATCH EXISTING SLOPE

SECTION ON TANGENT
ROUTE 37

STA. 175+06.00 TO STA. 183+90.00
STA. 312+85.10 TO STA. 321+10.00
STA. 335+40.00 TO STA. 362+25.00
STA. 376+90.00 TO STA. 378+60.00
STA. 442+20.00 TO STA. 445+84.00
STA. 713+30.00 TO STA. 724+54.00
STA. 820+30.00 TO STA. 828+05.00
STA. 900+16.00 TO STA, 907+77.00
STA. 922+02.50 TO STA. 929+74.82
STA. 951+88.50 TO STA. 957+16.61
STA. 480+73.00 TO STA. 486+23.69

EQUATIONS:
STA. 352+45.44 BK. = STA. 353+25.66 AH.
STA. 957+16.91 BK. = STA. 480+73.00 AH.

NOTE:
NO ADDITIONAL PAYMENT WILL BE MADE FOR ADDITIONAL COLDMILLING (UP TO 3″) REQUIRED TO REMOVE ENTIRE TOP LIFT DUE TO DELAMINATION. THIS APPLIES TO ENTIRE PROJECT LIMITS.

ROUTE 37
TYPICAL SECTION
SHEET 4 OF 11

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE PREPARED: 3/16/2020
ROUTE: 37
STATE: MO
DISTRICT: SW
SHEET NO.: 2
COUNTY: BARRY
JOB NO.: J7P3120
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

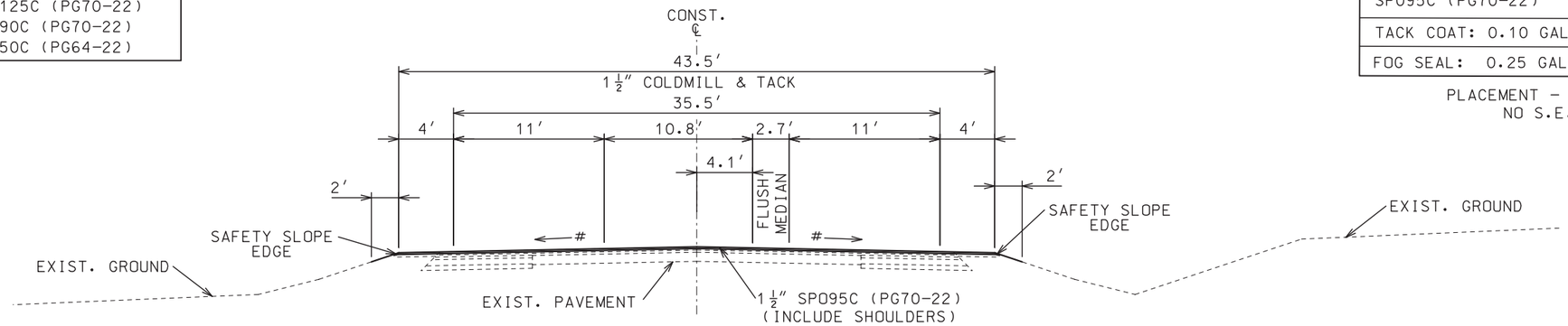
DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FOR INFORMATION ONLY
RTE. 37 PAVEMENT HISTORY
STA. 54+83 TO STATE LINE
1 ½" SP095C (PG70-22)
1 ¼" SP125C (PG70-22)
4" SP190C (PG70-22)
8" SP250C (PG64-22)

ASPHALT FACTORS	
ESTIMATED PAVEMENT FACTORS	% AC
SP095C (PG70-22) 1.960 TONS/CY	5.7%
TACK COAT: 0.10 GAL/SY	
FOG SEAL: 0.25 GAL/SY	

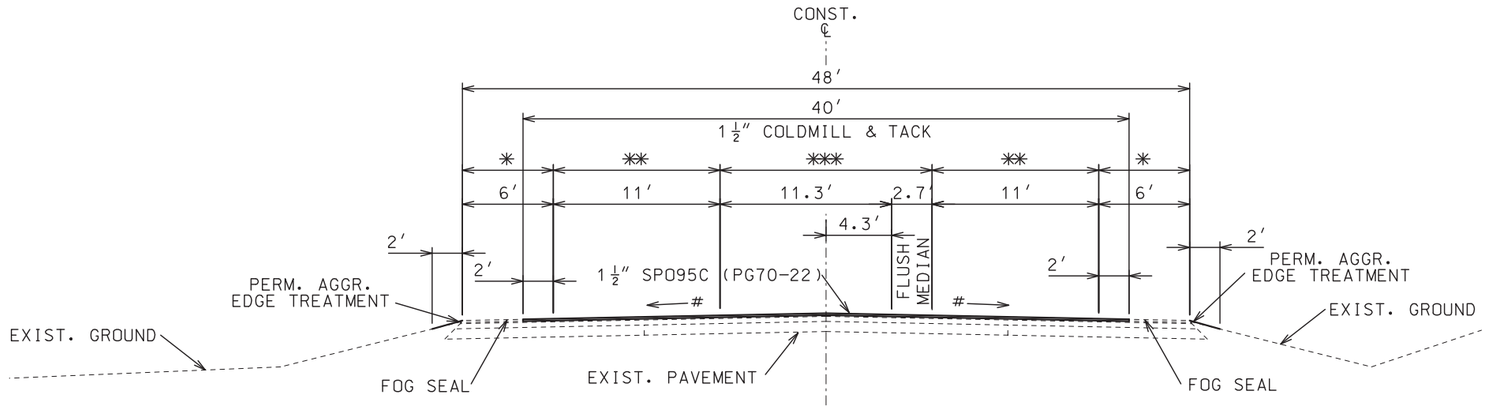
PLACEMENT – ONE PASS PER LANE
NO S.E. CORRECTION



MATCH EXISTING SLOPE

SECTION ON TANGENT
ROUTE 37

STA. 521+58.90 TO STA. 549+11.00



MATCH EXISTING SLOPE

✳ LT. SHOULDER
STA. 765+86.22 – 769+46.22 = 6′ – 12′ WIDE

✳ RT. & LT. SHOULDER
STA. 183+90.00 – 187+50.00 = 12′ – 6′ WIDE
STA. 378+60.00 – 382+80.00 = 12′ – 6′ WIDE
STA. 438+00.00 – 442+20.00 = 6′ – 8′ WIDE

✳✳ DRIVING LANE
STA. 183+90.00 – 187+50.00 = 12′ – 11′ WIDE
STA. 378+60.00 – 382+80.00 = 12′ – 11′ WIDE
STA. 438+00.00 – 442+20.00 = 11′ – 12′ WIDE
STA. 729+85.00 – 737+05.00 = 12′ – 11′ WIDE
STA. 765+86.22 – 769+46.22 = 11′ – 12′ WIDE
STA. 831+64.90 – 838+85.00 = 12′ – 11′ WIDE
STA. 886+10.00 – 890+70.00 = 11′ – 12′ WIDE

✳✳✳ CENTER LANE
STA. 183+90.00 – 187+50.00 = 0′ – 14′ WIDE
STA. 378+60.00 – 382+80.00 = 0′ – 14′ WIDE
STA. 438+00.00 – 442+20.00 = 14′ – 0′ WIDE
STA. 729+85.00 – 737+05.00 = 12′ – 14′ WIDE
STA. 765+86.22 – 769+46.22 = 14′ – 6′ WIDE
STA. 831+64.90 – 838+85.00 = 12′ – 14′ WIDE
STA. 886+10.00 – 890+70.00 = 14′ – 12′ WIDE

SECTION ON TANGENT
ROUTE 37

STA. 183+90.00 TO STA. 254+00.00
STA. 378+60.00 TO STA. 442+20.00
STA. 729+85.00 TO STA. 769+46.22
STA. 831+64.90 TO STA. 890+70.00

NOTE:
NO ADDITIONAL PAYMENT WILL BE MADE FOR ADDITIONAL COLDMILLING (UP TO 3") REQUIRED TO REMOVE ENTIRE TOP LIFT DUE TO DELAMINATION. THIS APPLIES TO ENTIRE PROJECT LIMITS.

ROUTE 37
TYPICAL SECTION
SHEET 5 OF 11

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/16/2020
ROUTE: 37 | STATE: MO
DISTRICT: SW | SHEET NO.: 2
COUNTY: BARRY
JOB NO.: J7P3120
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE | REV.

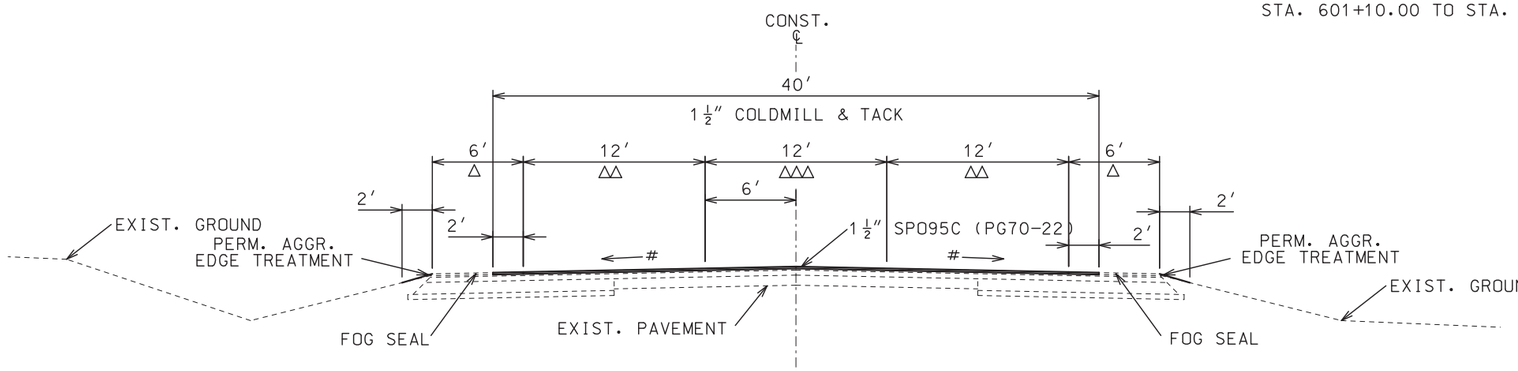
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FOR INFORMATION ONLY
RTE. 37 PAVEMENT HISTORY
STA. 54+83 TO STATE LINE
1½″ SP095C (PG70-22)
1¼″ SP125C (PG70-22)
4″ SP190C (PG70-22)
8″ SP250C (PG64-22)

ASPHALT FACTORS		
ESTIMATED PAVEMENT FACTORS		% AC
SP095C (PG70-22)	1.960 TONS/CY	5.7%
TACK COAT: 0.10 GAL/SY		
FOG SEAL: 0.25 GAL/SY		

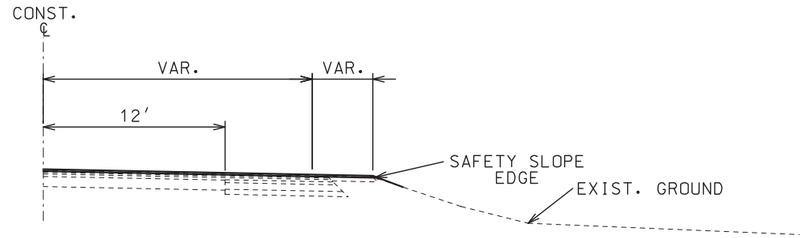
PLACEMENT – ONE PASS PER LANE
NO S.E. CORRECTION



MATCH EXISTING SLOPE

SECTION ON TANGENT
ROUTE 37
STA. 601+10.00 TO STA. 616+30.00

EQUATION:
STA. 613+81.26 BK. = STA. 614+01.08 AH.

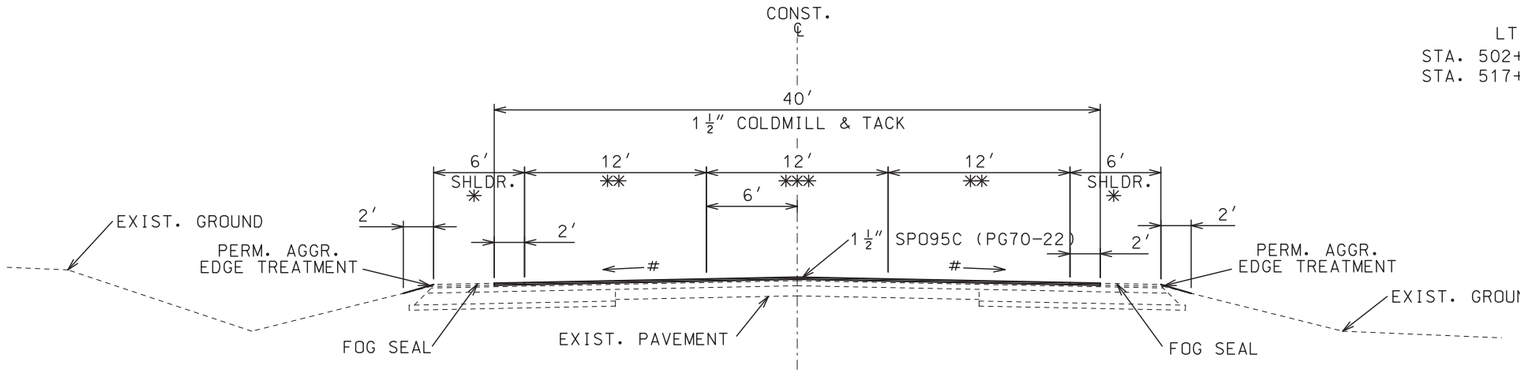


ROUTE 37
LT. & RT. SHOULDERS
STA. 601+10.00 TO STA. 604+10.00

△ RT. & LT. SHOULDER
STA. 601+10.00 – 607+70.00 = 4′ – 6′ WIDE
STA. 612+70.00 – 616+30.00 = 6′ – 8′ WIDE

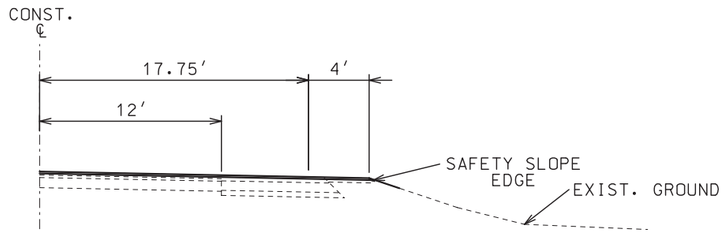
△△ DRIVING LANE
STA. 601+10.00 – 607+70.00 = 11′ – 12′ WIDE

△△△ CENTER LANE
STA. 601+10.00 – 607+70.00 = 13.5′ – 12′ WIDE
STA. 612+70.00 – 616+30.00 = 12′ – 0′ WIDE



MATCH EXISTING SLOPE

SECTION ON TANGENT
ROUTE 37
STA. 502+15.00 TO STA. 521+58.90



ROUTE 37
LT. & RT. SHOULDERS
STA. 502+15.00 TO STA. 505+75.00
STA. 517+98.90 TO STA. 521+58.90

✳ RT. & LT. SHOULDER
STA. 502+15.00 – 509+35.00 = 4′ – 6′ WIDE
STA. 514+38.90 – 521+58.90 = 6′ – 4′ WIDE

✳✳ DRIVING LANE
STA. 502+15.00 – 509+35.00 = 11′ – 12′ WIDE
STA. 514+38.90 – 521+58.90 = 12′ – 11′ WIDE

✳✳✳ CENTER LANE
STA. 502+15.00 – 509+35.00 = 13.5′ – 12′ WIDE
STA. 514+38.90 – 521+58.90 = 12′ – 13.5′ WIDE

NOTE:
NO ADDITIONAL PAYMENT WILL BE MADE FOR ADDITIONAL COLDMILLING (UP TO 3″) REQUIRED TO REMOVE ENTIRE TOP LIFT DUE TO DELAMINATION. THIS APPLIES TO ENTIRE PROJECT LIMITS.

ROUTE 37
TYPICAL SECTION
SHEET 6 OF 11

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

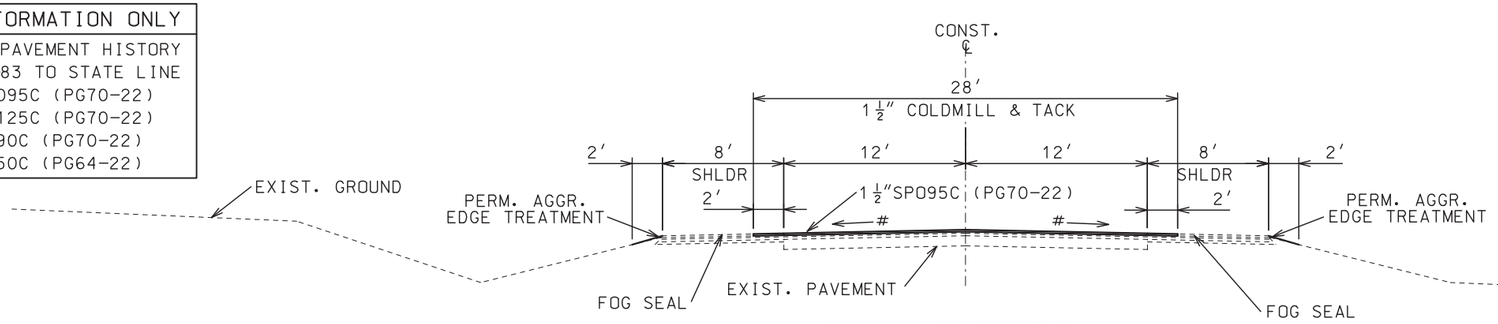
DATE PREPARED: 3/16/2020
ROUTE: 37 | STATE: MO
DISTRICT: SW | SHEET NO.: 2
COUNTY: BARRY
JOB NO.: J7P3120
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV. | DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FOR INFORMATION ONLY
RTE. 37 PAVEMENT HISTORY
STA. 54+83 TO STATE LINE
1½" SP095C (PG70-22)
1¼" SP125C (PG70-22)
4" SP190C (PG70-22)
8" SP250C (PG64-22)

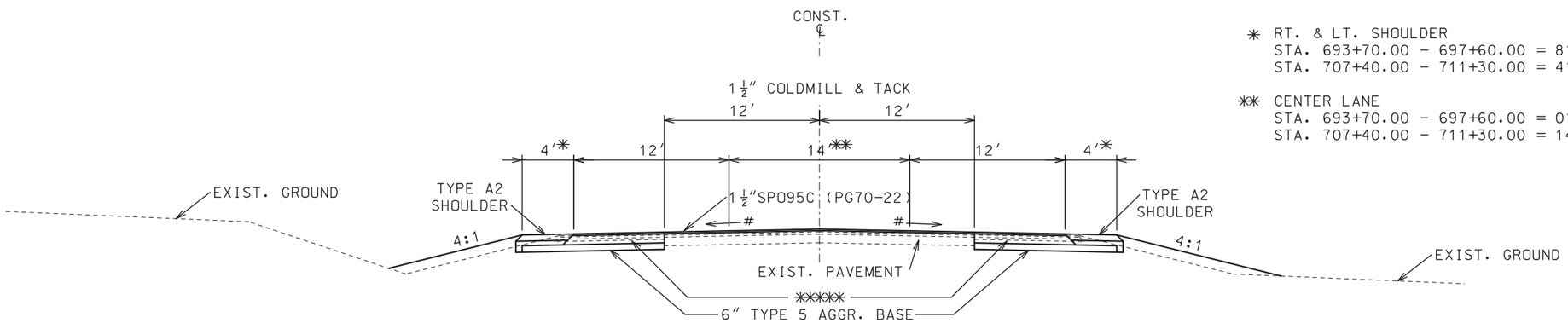


SECTION ON TANGENT
ROUTE 37
STA. 616+30.00 TO STA. 634+83.10
STA. 650+66.20 TO STA. 693+70.00
STA. 711+30.00 TO STA. 713+30.00

MATCH EXISTING SLOPE

ASPHALT FACTORS	
ESTIMATED PAVEMENT FACTORS	% AC
SP095C (PG70-22) 1.960 TONS/CY	5.7%
TACK COAT: 0.10 GAL/SY	
FOG SEAL: 0.25 GAL/SY	

PLACEMENT - ONE PASS PER LANE
NO S.E. CORRECTION

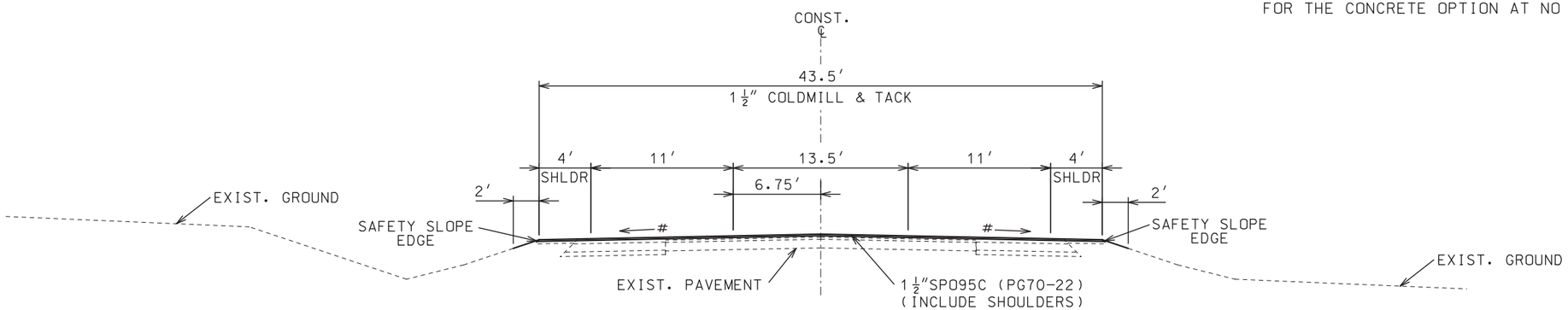


✳ RT. & LT. SHOULDER
STA. 693+70.00 - 697+60.00 = 8′ - 4′ WIDE
STA. 707+40.00 - 711+30.00 = 4′ - 8′ WIDE

✳✳ CENTER LANE
STA. 693+70.00 - 697+60.00 = 0′ - 14′ WIDE
STA. 707+40.00 - 711+30.00 = 14′ - 0′ WIDE

SECTION ON TANGENT
ROUTE 37
ADD CENTER TURN LANE @ FR2140
STA. 693+70 TO STA. 711+30

✳✳✳✳✳ OPTIONAL PAVEMENT CONSISTING OF EITHER:
(1) 8½" JPCP
OR: (2) 10½" HMA CONSISTING OF:
1½" SP095C W/ PG70-22
OVER 3" SP250C W/ PG70-22
OVER 6" SP250C W/ PG64-22
NOTE: CONTRAST MARKING WILL BE REQUIRED FOR THE CONCRETE OPTION AT NO DIRECT PAY.



SECTION ON TANGENT
ROUTE 37
STA. 549+11.00 TO STA. 567+35.00

MATCH EXISTING SLOPE

NOTE:
NO ADDITIONAL PAYMENT WILL BE MADE FOR ADDITIONAL COLDMILLING (UP TO 3") REQUIRED TO REMOVE ENTIRE TOP LIFT DUE TO DELAMINATION. THIS APPLIES TO ENTIRE PROJECT LIMITS.

ROUTE 37
TYPICAL SECTION
SHEET 7 OF 11

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/16/2020
ROUTE 37 | STATE MO
DISTRICT SW | SHEET NO. 2
COUNTY BARRY
JOB NO. J7P3120
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

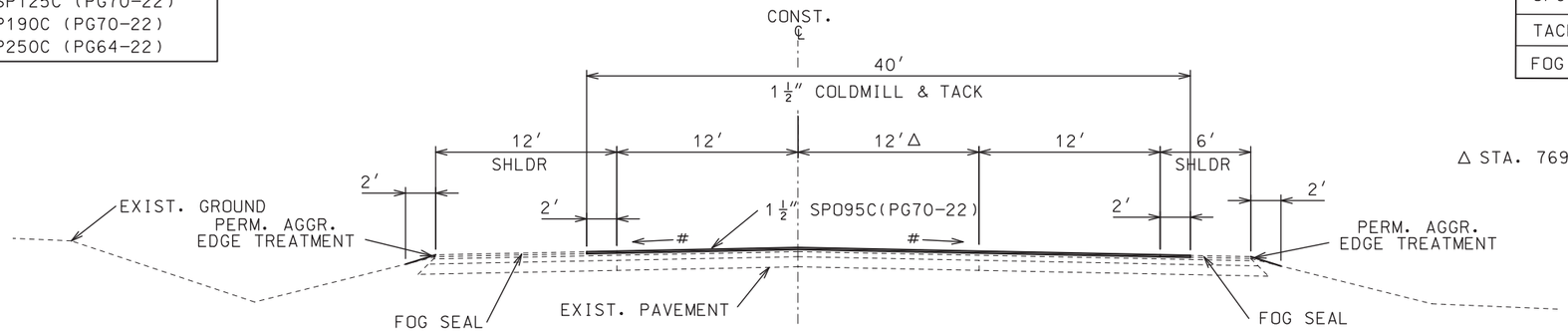
REV.

FOR INFORMATION ONLY
RTE. 37 PAVEMENT HISTORY
STA. 54+83 TO STATE LINE
1 ½" SP095C (PG70-22)
1 ¼" SP125C (PG70-22)
4" SP190C (PG70-22)
8" SP250C (PG64-22)

ASPHALT FACTORS		
ESTIMATED PAVEMENT FACTORS		% AC
SP095C (PG70-22)	1.960 TONS/CY	5.7%
TACK COAT: 0.10 GAL/SY		
FOG SEAL: 0.25 GAL/SY		

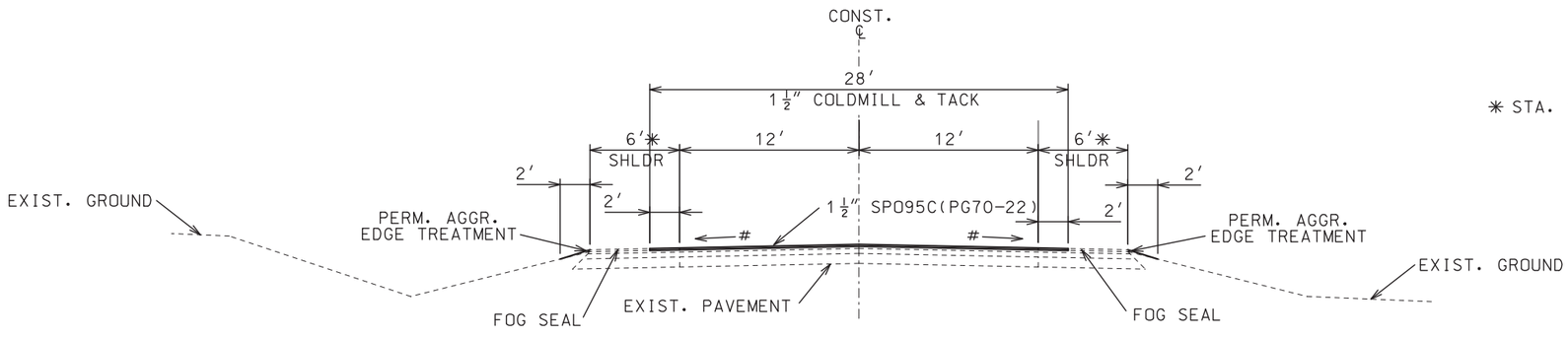
PLACEMENT - ONE PASS PER LANE
NO S.E. CORRECTION

Δ STA. 769+46.22 - 771+71.22 = 6' - 12' WIDE



MATCH EXISTING SLOPE

SECTION ON TANGENT
ROUTE 37
STA. 769+46.22 TO STA. 774+74.74



✳ STA. 1570+20.00 - STA. 1571+20.00 WIDTH 6'-10'

MATCH EXISTING SLOPE

✳✳ NOTE
EXCEPTION SEE JOB J7P3400

NOTE:
NO ADDITIONAL PAYMENT WILL BE MADE FOR ADDITIONAL COLDMILLING (UP TO 3") REQUIRED TO REMOVE ENTIRE TOP LIFT DUE TO DELAMINATION. THIS APPLIES TO ENTIRE PROJECT LIMITS.

SECTION ON TANGENT
ROUTE 37

STA. 486+23.69 TO STA. 771+14.33
✳✳ STA. 771+14.33 TO STA. 815+92.44 EXCEPTION
STA. 815+92.44 TO STA. 819+93.00
(CASSVILLE TO WASHBURN)
STA. 1302+63.00 TO 1571+20.00
(WASHBURN TO SELIGMAN)

EQUATIONS:
STA. 712+69.65 BK. = STA. 713+14.60 AH.
STA. 780+40.85 BK. = STA. 780+52.71 AH.
STA. 1325+57.01 BK. = STA. 1325+58.00 AH.
STA. 1342+00.00 BK. = STA. 1345+64.70 AH.
STA. 1364+91.22 BK. = STA. 1365+33.10 AH.
STA. 1404+71.60 BK. = STA. 1405+83.00 AH.
STA. 1538+60.63 BK. = STA. 1538+77.17 AH.

ROUTE 37
TYPICAL SECTION
SHEET 8 OF 11

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/16/2020
ROUTE: 37 | STATE: MO
DISTRICT: SW | SHEET NO.: 2
COUNTY: BARRY
JOB NO.: J7P3120
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

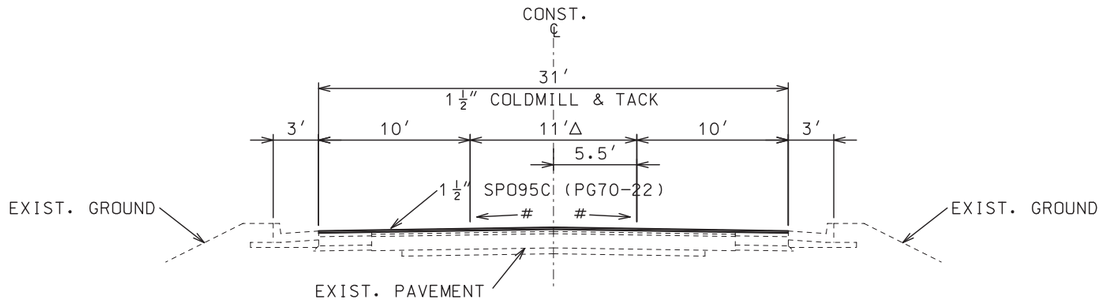
REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FOR INFORMATION ONLY
RTE. 37 PAVEMENT HISTORY
STA. 54+83 TO STATE LINE
1½" SP095C (PG70-22)
1¼" SP125C (PG70-22)
4" SP190C (PG70-22)
8" SP250C (PG64-22)

ASPHALT FACTORS	
ESTIMATED PAVEMENT FACTORS	% AC
SP095C (PG70-22) 1.960 TONS/CY	5.7%
TACK COAT: 0.10 GAL/SY	
FOG SEAL: 0.25 GAL/SY	

PLACEMENT – ONE PASS PER LANE
NO S.E. CORRECTION



SECTION ON TANGENT
ROUTE 37
STA. 819+93.00 TO STA. 1302+63.00

1½" COLDMILL & TACK

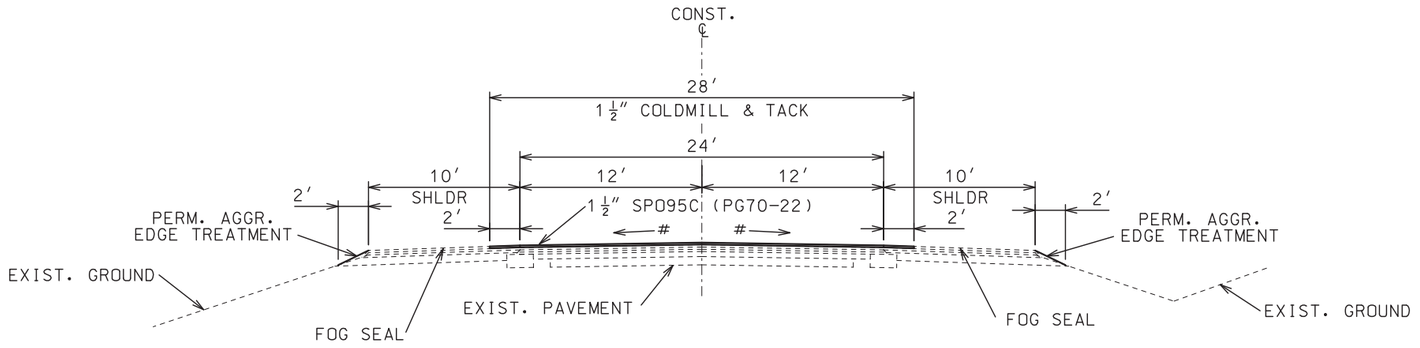
* LT. SHOULDER (RESURFACING ONLY)
STA. 819+20.00 – STA. 1272+55.04

RT. SHOULDER (RESURFSURFACING ONLY)
STA. 819+20.00 – 1272+70.61

Δ CENTER TURN LANE
STA. 819+42.00 – STA. 1275+37.00 WIDTH 0′ – 11′
STA. 1294+78.00 – STA. 1298+00.00 WIDTH 11′ – 0′
STA. 1298+00.00 – STA. 1302+63.00 WIDTH 0′

MATCH EXISTING SLOPE

EQUATION:
STA. 819+93.00 BK. = STA. 1272+50.00 AH.



SECTION ON TANGENT
ROUTE 37
STA. 1571+20.00 TO STA. 1572+90.00
STA. 1689+95.00 TO STA. 1701+66.40

MATCH EXISTING SLOPE

NOTE:
NO ADDITIONAL PAYMENT WILL BE MADE FOR ADDITIONAL COLDMILLING (UP TO 3") REQUIRED TO REMOVE ENTIRE TOP LIFT DUE TO DELAMINATION. THIS APPLIES TO ENTIRE PROJECT LIMITS.

ROUTE 37
TYPICAL SECTION
SHEET 9 OF 11

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/16/2020
ROUTE 37 | STATE MO
DISTRICT SW | SHEET NO. 2
COUNTY BARRY
JOB NO. J7P3120
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

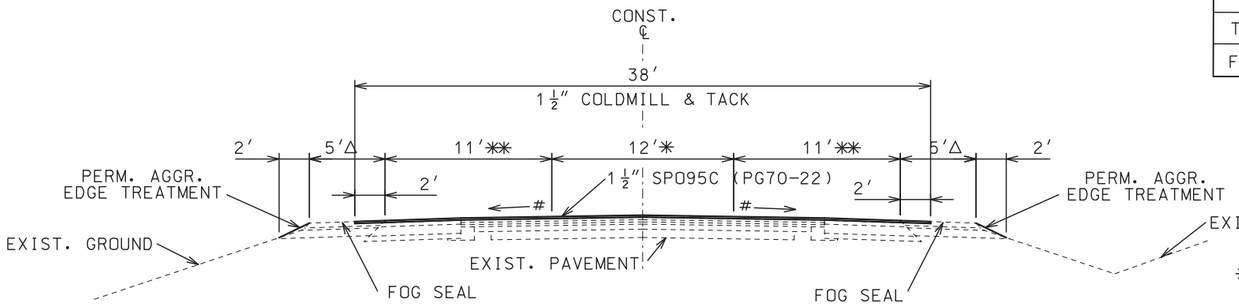
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

FOR INFORMATION ONLY
RTE. 37 PAVEMENT HISTORY
STA. 54+83 TO STATE LINE
1 ½" SP095C (PG70-22)
1 ¼" SP125C (PG70-22)
4" SP190C (PG70-22)
8" SP250C (PG64-22)

ASPHALT FACTORS		
ESTIMATED PAVEMENT FACTORS		% AC
SP095C (PG70-22)	1.960 TONS/CY	5.7%
TACK COAT: 0.10 GAL/SY		
FOG SEAL: 0.25 GAL/SY		

PLACEMENT – ONE PASS PER LANE
NO S.E. CORRECTION



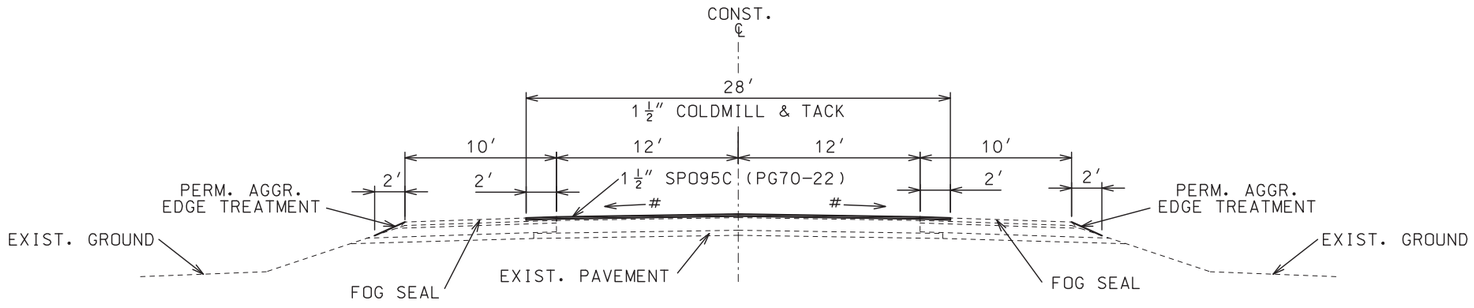
✱ STA. 1572+90 – STA. 1575+60 WIDTH 0′–12′

✱✱ STA. 1572+90 – STA. 1575+60 WIDTH 12′–11′

△ STA. 1572+90 – STA. 1575+60 WIDTH 10′–5′

MATCH EXISTING SLOPE

SECTION ON TANGENT
ROUTE 37
STA. 1572+90.00 TO STA. 1578+70.00



SECTION ON TANGENT
ROUTE 37
STA. 1608+53.00 TO STA. 1628+30.00
STA. 1638+45.00 TO STA. 1646+05.00
STA. 1660+40.00 TO STA. 1666+50.00
STA. 1679+80.00 TO STA. 1689+95.00

MATCH EXISTING SLOPE

NOTE:
NO ADDITIONAL PAYMENT WILL BE MADE FOR ADDITIONAL COLDMILLING (UP TO 3") REQUIRED TO REMOVE ENTIRE TOP LIFT DUE TO DELAMINATION. THIS APPLIES TO ENTIRE PROJECT LIMITS.

ROUTE 37
TYPICAL SECTION
SHEET 10 OF 11

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE PREPARED: 3/16/2020
ROUTE: 37 | STATE: MO
DISTRICT: SW | SHEET NO.: 2
COUNTY: BARRY
JOB NO.: J7P3120
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

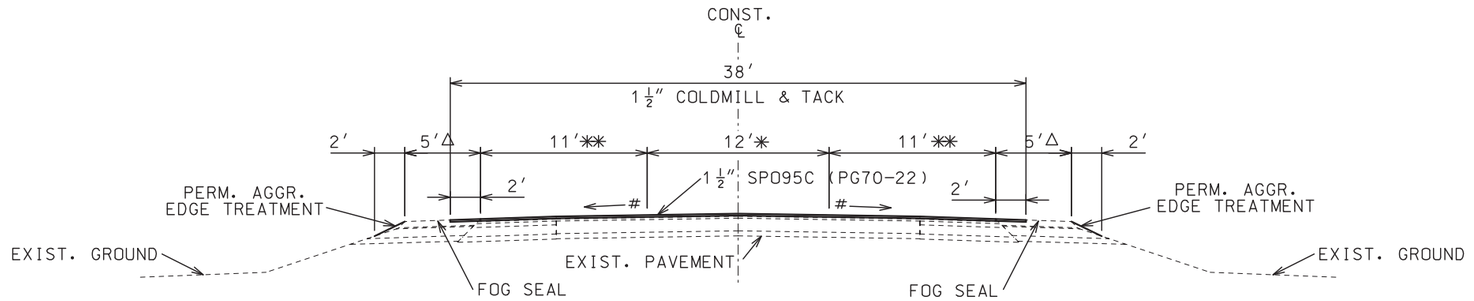
DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

FOR INFORMATION ONLY
RTE. 37 PAVEMENT HISTORY
STA. 54+83 TO STATE LINE
1 ½" SP095C (PG70-22)
1 ¼" SP125C (PG70-22)
4" SP190C (PG70-22)
8" SP250C (PG64-22)

ASPHALT FACTORS	
ESTIMATED PAVEMENT FACTORS	% AC
SP095C (PG70-22) 1.960 TONS/CY	5.7%
TACK COAT: 0.10 GAL/SY	
FOG SEAL: 0.25 GAL/SY	

PLACEMENT – ONE PASS PER LANE
NO S.E. CORRECTION



MATCH EXISTING SLOPE

✱ STA. 1605+83 – STA. 1608+53 WIDTH 12′– 0′
STA. 1628+30 – STA. 1631+00 WIDTH 0′–12′
STA. 1635+75 – STA. 1638+45 WIDTH 12′– 0′
STA. 1646+05 – STA. 1648+75 WIDTH 0′–12′
STA. 1657+70 – STA. 1660+40 WIDTH 12′– 0′
STA. 1666+50 – STA. 1669+20 WIDTH 0′–12′
STA. 1677+10 – STA. 1679+80 WIDTH 12′– 0′

✱✱ STA. 1605+83 – STA. 1608+53 WIDTH 11′–12′
STA. 1628+30 – STA. 1631+00 WIDTH 12′–11′
STA. 1635+75 – STA. 1638+45 WIDTH 11′–12′
STA. 1646+05 – STA. 1648+75 WIDTH 12′–11′
STA. 1657+70 – STA. 1660+40 WIDTH 11′–12′
STA. 1666+50 – STA. 1669+20 WIDTH 12′–11′
STA. 1677+10 – STA. 1679+80 WIDTH 11′–12′

△ STA. 1605+83 – STA. 1608+53 WIDTH 5′–10′
STA. 1628+30 – STA. 1631+00 WIDTH 10′– 5′
STA. 1635+75 – STA. 1638+45 WIDTH 5′–10′
STA. 1646+05 – STA. 1648+75 WIDTH 10′– 5′
STA. 1657+70 – STA. 1660+40 WIDTH 5′–10′
STA. 1666+50 – STA. 1669+20 WIDTH 10′– 5′
STA. 1677+10 – STA. 1679+80 WIDTH 5′–10′

SECTION ON TANGENT

ROUTE 37
STA. 1578+70.00 TO STA. 1608+53.00
STA. 1628+30.00 TO STA. 1638+45.00
STA. 1646+05.00 TO STA. 1660+40.00
STA. 1666+50.00 TO STA. 1679+80.00

NOTE:
NO ADDITIONAL PAYMENT WILL BE MADE FOR ADDITIONAL COLDMILLING (UP TO 3") REQUIRED TO REMOVE ENTIRE TOP LIFT DUE TO DELAMINATION. THIS APPLIES TO ENTIRE PROJECT LIMITS.

ROUTE 37
TYPICAL SECTION
SHEET 11 OF 11

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/16/2020
ROUTE 37 | STATE MO
DISTRICT SW | SHEET NO. 2
COUNTY BARRY
JOB NO. J7P3120
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.

REMOVAL OF IMPROVEMENTS

STA. TO STA.	LOCATION	DESCRIPTION	QTY	REMARKS
141+12.00 - 143+88.40	RTE 37 RT	275' GUARDRAIL	1	
141+87.20 - 144+73.70	RTE 37 LT	287.5' GUARDRAIL	1	
171+68.00 - 177+18.00	RTE 37 LT	650' GUARDRAIL	1	
209+87.50 - 221+75.00	RTE 37 RT	1187.5' GUARDRAIL	1	
211+77.50 - 220+21.00	RTE 37 LT	925' GUARDRAIL	1	
482+48.67 - 1+20.47	RTE 37 LT	562.5' GUARDRAIL	1	
548+58.84 - 549+08.84	RTE 37 RT	50' END TERM	1	
677+46.49 - 679+96.49	RTE 37 RT	162.5' GUARDRAIL	1	LEAVE THRIE BEAMS
678+19.62 - 680+69.62	RTE 37 LT	162.5' GUARDRAIL	1	LEAVE THRIE BEAMS
700+70.00	RTE 37 RT	28'x18" PIPE	1	UNDER ENTRANCE
702+48.00	RTE 37 RT	57'x18" PIPE	1	UNDER FR2140
790+21.22 - 796+58.72	RTE 37 RT	637.5' GUARDRAIL	1	
790+96.22 - 798+08.72	RTE 37 LT	712.5' GUARDRAIL	1	
839+38.50 - 846+38.50	RTE 37 RT	700' GUARDRAIL	1	
841+58.00 - 849+08.00	RTE 37 LT	750' GUARDRAIL	1	
863+37.00 - 869+87.00	RTE 37 RT	650' GUARDRAIL	1	
865+13.50 - 872+63.50	RTE 37 LT	750' GUARDRAIL	1	
881+12.36 - FR2172	RTE 37 RT	1275' GUARDRAIL	1	INCLUDES FR2172 RAIL
885+58.27 - FR2172	RTE 37 LT	900' GUARDRAIL	1	INCLUDES FR2172 RAIL
FR2172 - 902+42.00	RTE 37 RT	1012.5' GUARDRAIL	1	INCLUDES FR2172 RAIL
FR2172 - 902+31.00	RTE 37 LT	1050' GUARDRAIL	1	INCLUDES FR2172 RAIL
945+54.00 - 952+37.50	RTE 37 LT	750' GUARDRAIL	1	INCLUDES EAST AVE. RAIL
766+97.65 - 767+47.65	RTE 37 LT	50' END TERM	1	
767+37.55 - 769+87.55	RTE 37 RT	250' GUARDRAIL	1	
768+86.50 - 769+36.50	RTE 37 LT	50' END TERM	1	
1406+00.00 - 1410+90.00	RTE 37 LT	490' FENCE	1	
1408+10.54	RTE 37 RT	SIGN	1	
1408+15.70	RTE 37 LT&RT	2 HEADWALLS	1	
1408+21.70	RTE 37 LT	SIGN	1	
1426+25.00 - 1429+75.00	RTE 37 LT	350' FENCE	1	
1428+38.83	RTE 37 LT&RT	HEADWALLS	1	
1428+40.00	RTE 37 LT	SIGN	1	
1429+44.00	RTE 37 LT	SIGN	1	
1443+20.00 - 1448+40.00	RTE 37 LT	520' FENCE	1	
1445+11.00 - 1445+92.00	RTE 37 LT	80' GUARDRAIL	1	
1445+30.00 - 1446+45.00	RTE 37 LT&RT	9 SIGNS	1	
1445+68.44	RTE 37 LT&RT	2 HEADWALLS	1	
		LUMP SUM	1	

SIGN RELOCATIONS

EXIST. STA. TO NEW STA.	LOCATION	DESCRIPTION	QTY	REMARKS
702+39.13 - 702+25.78	45.3' LT RTE 37	STOP SIGN	1	FR2140
702+61.58 - 702+78.48	49.6' RT RTE 37	STOP SIGN	1	FR2140
1426+82.00	RTE 37 RT	MAILBOXES	1	RETURN TO EXIST. STA. AFTER JOB COMPLETION
1428+40	RTE 37 LT	OBJECT MARKER	2	
1430+00.00	RTE 37 RT	MAILBOX	1	
		TOTAL	6	

OPTIONAL PAVEMENT

STA. TO STA.	LOCATION	LENGTH (FT)	WIDTH (FT)	AREA (SY)	REMARKS
693+70.00 - 697+60.00	RTE 37, RT SIDE	390.0	Var.	163.8	WIDENING FOR TAPER
697+60.00 - 702+00.00	RTE 37, RT SIDE	440.0	Var.	331.3	WIDENING FOR LT TURN LANE
702+00.00 - 703+77.00	RTE 37, RT SIDE	177.0	Var.	470.1	INCLUDES WIDENING ON FR2140
703+77.00 - 707+40.00	RTE 37, RT SIDE	363.0	Var.	281.0	WIDENING FOR LT TURN LANE
707+40.00 - 711+30.00	RTE 37, RT SIDE	390.0	Var.	159.8	WIDENING FOR TAPER
694+40.00 - 697+60.00	RTE 37, LT SIDE	320.0	Var.	120.6	WIDENING FOR TAPER
697+60.00 - 701+54.00	RTE 37, LT SIDE	394.0	Var.	266.8	WIDENING FOR LT TURN LANE
701+54.00 - 703+06.00	RTE 37, LT SIDE	152.0	Var.	349.6	INCLUDES WIDENING ON FR2140
703+06.00 - 707+40.00	RTE 37, LT SIDE	434.0	Var.	273.8	WIDENING FOR LT TURN LANE
707+40.00 - 710+58.00	RTE 37, LT SIDE	318.0	Var.	116.9	WIDENING FOR TAPER
			TOTAL	2533.7	
			USE	2533.7	

TYPE 5 AGGREGATE BASE

STA. TO STA.	LOCATION	LENGTH (FT)	WIDTH (FT)	6" TYPE 5 AGGR. (SY)	REMARKS
693+70.00 - 697+60.00	RTE 37, RT SIDE	390.0	Var.	328	WIDENING FOR TAPER
697+60.00 - 702+00.00	RTE 37, RT SIDE	440.0	Var.	525	WIDENING FOR LT TURN LANE
702+00.00 - 703+77.00	RTE 37, RT SIDE	177.0	Var.	470	INCLUDES WIDENING ON FR2140
703+77.00 - 707+40.00	RTE 37, RT SIDE	363.0	Var.	434	WIDENING FOR LT TURN LANE
707+40.00 - 711+30.00	RTE 37, RT SIDE	390.0	Var.	496	WIDENING FOR TAPER
694+40.00 - 697+60.00	RTE 37, LT SIDE	320.0	Var.	272	WIDENING FOR TAPER
697+60.00 - 701+54.00	RTE 37, LT SIDE	394.0	Var.	443	WIDENING FOR LT TURN LANE
701+54.00 - 703+06.00	RTE 37, LT SIDE	152.0	Var.	350	INCLUDES WIDENING ON FR2140
703+06.00 - 707+40.00	RTE 37, LT SIDE	434.0	Var.	475	WIDENING FOR LT TURN LANE
707+40.00 - 710+58.00	RTE 37, LT SIDE	318.0	Var.	377	WIDENING FOR TAPER
			TOTAL	4170	
			USE	4170	

TYPE A2 SHOULDERS

STA. TO STA.	LOCATION	LENGTH (FT)	WIDTH (FT)	AREA (SY)	REMARKS
693+70.00 - 697+60.00	RTE 37, RT SIDE	390.0	Var.	201.1	TAPER AREA
697+60.00 - 702+00.00	RTE 37, RT SIDE	440.0	Var.	193.8	LT TURN LANE
703+77.00 - 707+40.00	RTE 37, RT SIDE	363.0	Var.	152.7	LT TURN LANE
707+40.00 - 711+30.00	RTE 37, RT SIDE	390.0	Var.	336.6	TAPER AREA
693+70.00 - 697+60.00	RTE 37, LT SIDE	390.0	Var.	224.3	TAPER AREA
697+60.00 - 701+54.00	RTE 37, LT SIDE	394.0	Var.	176.3	LT TURN LANE
703+06.00 - 707+40.00	RTE 37, LT SIDE	434.0	Var.	200.6	LT TURN LANE
707+40.00 - 710+58.00	RTE 37, LT SIDE	318.0	Var.	346.1	TAPER AREA
			TOTAL	1831.5	
			USE	1831.5	

MOBILIZATION
LUMP SUM = 1

CONTRACTOR FURNISHED STAKING & SURVEYING
LUMP SUM = 1

ADDITIONAL MOBILIZATION FOR SEEDING
4 EA.

SUMMARY OF QUANTITIES
SHEET 1 OF 16

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/19/2020
ROUTE 37 | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY BARRY
JOB NO. J7P3120
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE | DESCRIPTION | REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

COLDMILLING BITUMINOUS PAVEMENT (3 IN. THICK OR LESS)(1)

STA. TO STA.	LOCATION	LENGTH (FT)	WIDTH (FT)	1.50" COLDMILLING (SY)	REMARKS
2+00.00 - 3+09.87	RTE 37	109.9	52	635	
3+09.87 - 3+65.75	RTE 37	55.9	46	286	RT TURN LANE TAPERS
3+65.75 - 68+00.00	RTE 37	6434.3	40	28597	
68+00.00 - 69+00.00	RTE 37	100.0	46	511	RT TURN LANE TAPERS
69+00.00 - 69+82.30	RTE 37	82.3	52	476	W/RT TURN LANE
69+82.30 - 71+91.80	RTE 37	209.5	52	1210	THRU INTERSECTION
20+36.50 - 21+87.46	FR2022	151.0	VARIES	1256	
71+91.80 - 91+79.00	RTE 37	1987.2	40	8832	
91+79.00 - 97+78.01	RTE 37	599.0	40	2662	EQUATION: 97+78.01 BK = 97+85.85 AH
97+85.85 - 157+18.00	RTE 37	5932.2	40	26365	
157+18.00 - 164+38.00	RTE 37	720.0	40	3200	
164+38.00 - 171+46.00	RTE 37	708.0	40	3147	
166+70.90 - 168+48.70	RTE 37 RT	177.8	VARIES	453	50' ONTO FR2040
166+71.80 - 169+12.40	RTE 37 LT	240.6	VARIES	686	50' ONTO RTE BB
171+46.00 - 175+06.00	RTE 37	360.0	34	1360	TAPER
175+06.00 - 183+90.00	RTE 37	884.0	28	2750	
183+90.00 - 187+50.00	RTE 37	360.0	34	1360	TAPER
187+50.00 - 254+00.00	RTE 37	6650.0	40	29556	
254+00.00 - 258+20.00	RTE 37	420.0	40	1867	
258+20.00 - 261+80.00	RTE 37	360.0	40	1600	
261+80.00 - 266+00.00	RTE 37	420.0	40	1867	
266+00.00 - 298+30.00	RTE 37	3230.0	40	14356	
298+30.00 - 305+50.00	RTE 37	720.0	40	3200	
305+50.00 - 309+26.00	RTE 37	376.0	40	1671	
309+26.00 - 312+58.88	RTE 37	332.9	34.75	1285	EQUATION: 312+58.88 BK = 312+63.75 AH
312+63.75 - 312+85.10	RTE 37	21.3	28.75	68	
312+85.10 - 321+10.00	RTE 37	824.9	28	2566	
321+10.00 - 324+70.00	RTE 37	360.0	34	1360	TAPER
324+70.00 - 331+80.00	RTE 37	710.0	40	3156	
331+80.00 - 335+40.00	RTE 37	360.0	34	1360	TAPER
335+40.00 - 352+45.44	RTE 37	1705.4	28	5306	EQUATION: 352+45.44 BK = 353+25.66 AH
353+25.66 - 362+25.00	RTE 37	899.3	28	2798	
362+25.00 - 365+85.00	RTE 37	360.0	34	1360	TAPER
365+85.00 - 373+30.00	RTE 37	745.0	40	3311	
380+66.20 - 381+64.70	RTE B	98.5	VARIES	973	
0+19.50 - 1+18.00	RTE C	98.5	VARIES	968	
373+30.00 - 376+90.00	RTE 37	360.0	34	1360	TAPER
376+90.00 - 378+60.00	RTE 37	170.0	28	529	
378+60.00 - 382+80.00	RTE 37	420.0	34	1587	TAPER
382+80.00 - 438+00.00	RTE 37	5520.0	40	24533	
438+00.00 - 442+20.00	RTE 37	420.0	34	1587	TAPER
442+20.00 - 445+84.00	RTE 37	364.0	28	1132	
445+84.00 - 502+15.00	RTE 37	5631.0	44.5	27842	
502+15.00 - 509+35.00	RTE 37	720.0	44.5	3740	
509+35.00 - 514+38.90	RTE 37	503.9	40	2240	
444+08.75 - 445+08.30	RTE HH	99.6	VARIES	863	
514+38.90 - 521+58.90	RTE 37	720.0	41.5	3660	LANE TAPERS
521+58.90 - 549+11.00	RTE 37	2752.1	43.5	13302	
549+11.00 - 567+35.00	RTE 37	1824.0	43.5	8816	
0+21.93 - 0+81.23	FR2115	59.3	VARIES	498	
567+35.00 - 601+10.00	RTE 37	3375.0	43.5	16313	
601+10.00 - 607+70.00	RTE 37	660.0	36.25	3392	
607+70.00 - 612+70.00	RTE 37	500.0	40	2222	
0+19.50 - 0+73.76	RTE U	54.3	VARIES	756	
612+70.00 - 616+30.00	RTE 37	360.0	34	1360	TAPER
616+30.00 - 634+83.10	RTE 37	1853.1	28	5765	
634+83.10 - 638+47.72	RTE 37	364.6	34	1377	TAPER
638+47.72 - 639+50.00	RTE 37	102.3	50	528	TAPER
639+50.00 - 641+18.78	RTE 37	168.8	52	1013	
641+18.78 - 645+56.93	RTE 37	438.2	47	2142	
465+87.40 - 466+75.37	RTE W	88.0	VARIES	830	
467+19.12 - 467+90.60	RTE W	71.5	VARIES	673	
645+56.93 - 650+66.20	RTE 37	509.3	42.5	2405	TAPER
650+66.20 - 693+70.00	RTE 37	4303.8	28	13390	
693+70.00 - 711+30.00	RTE 37	1760.0	VAR.	9314	INCLUDES SHOULDERS & FR2140
711+30.00 - 724+54.00	RTE 37	1324.0	28	4119	
724+54.00 - 727+64.89	RTE 37	310.9	34	1174	TAPER
727+64.89 - 765+86.22	RTE 37	3821.3	40	16984	
		SUBTOTAL (1)		337858	

COLDMILLING BITUMINOUS PAVEMENT (3 IN. THICK OR LESS)(2)

STA. TO STA.	LOCATION	LENGTH (FT)	WIDTH (FT)	1.50" COLDMILLING (SY)	REMARKS
765+86.22 - 769+46.22	RTE 37	360.0	37	1480	TAPER
769+46.22 - 771+71.22	RTE 37	225.0	37	925	TAPER
771+71.22 - 774+74.74	RTE 37	303.5	40	1349	
0+15.61 - 0+85.57	BUS RTE 37	70.0	VARIES	424	
774+74.74 - 778+34.44	RTE 37	359.7	40	1599	
778+34.44 - 816+70.00	RTE 37	3835.6	40	17047	
816+70.00 - 817+54.55	RTE 37	84.6	38.5	362	EQUATION: 817+54.55 BK = 817+58.33 AH
817+58.33 - 820+20.00	RTE 37	261.7	32.5	945	
820+20.00 - 828+05.00	RTE 37	785.0	28	2442	
828+05.00 - 831+64.90	RTE 37	359.9	34	1360	TAPER
831+64.90 - 896+56.00	RTE 37	6491.1	40	28849	
896+56.00 - 900+16.00	RTE 37	360.0	34	1360	TAPER
900+16.00 - 907+77.00	RTE 37	761.0	28	2368	
907+77.00 - 911+40.87	RTE 37	363.9	34	1375	TAPER
911+40.87 - 912+27.40	RTE 37	86.5	46	442	TAPER
912+27.40 - 914+20.00	RTE 37	192.6	52	1113	
914+20.00 - 918+42.50	RTE 37	422.5	40	1878	
19+00.00 - 19+80.50	FR2180	80.5	VARIES	1082	
20+19.50 - 21+00.00	EXETER RD	80.5	VARIES	1301	
918+42.50 - 922+02.50	RTE 37	360.0	34	1360	TAPER
922+02.50 - 929+74.81	RTE 37	772.3	28	2403	
929+74.81 - 933+34.82	RTE 37	360.0	34	1360	TAPER
933+34.82 - 948+28.50	RTE 37	1493.7	40	6639	
930+87.60 - 937+18.35	RTE 76/86	630.7	VARIES	2668	
937+59.05 - 943+09.70	RTE 76/86	550.6	VARIES	2704	
948+28.50 - 951+88.50	RTE 37	360.0	34	1360	TAPER
951+88.50 - 957+16.61	RTE 37	528.1	28	1643	EQUATION: 957+16.61 BK = 480+73.00 AH
480+73.00 - 580+54.78	RTE 37	9981.8	28	31054	EQUATION: 580+54.78 BK = 580+34.40 AH
580+34.40 - 613+81.26	RTE 37	3346.9	28	10412	EQUATION: 613+81.26 BK = 614+01.08 AH
614+01.08 - 712+69.55	RTE 37	9868.5	28	30702	EQUATION: 712+69.65 BK = 713+14.60 AH
713+14.60 - 771+14.33	RTE 37	5799.7	28	18044	
771+14.33 - 815+92.44					EXCEPTION NEW PASSING LANE (J7P3400)
					EQUATION: 780+40.85 BK = 780+52.71 AH
815+92.44 - 819+42.00	RTE 37	349.6	28	1088	
819+42.00 - 819+93.00	RTE 37	51.0	28.5	162	EQUATION: 819+93.00 BK = 1272+50.00 AH
1272+50.00 - 1275+37.00	RTE 37	287.0	30	957	TAPER
1275+37.00 - 1294+78.00	RTE 37	1941.0	31	6686	
461+00.00 - 463+71.71	RTE 90	271.7	VARIES	1152	
1294+78.00 - 1298+00.00	RTE 37	322.0	28	1002	TAPER
1298+00.00 - 1302+63.00	RTE 37	463.0	25	1286	
1302+63.00 - 1325+57.01	RTE 37	2294.0	28	7137	EQUATION: 1325+57.01 BK = 1325+58.00 AH
1325+58.00 - 1342+03.00	RTE 37	1645.0	28	5118	EQUATION: 1342+00.03 BK = 1345+64.70 AH
1345+64.70 - 1364+91.22	RTE 37	1926.5	28	5994	EQUATION: 1364+91.22 BK = 1365+33.10 AH
1365+33.10 - 1404+17.60	RTE 37	3884.5	28	12085	EQUATION: 1404+17.60 BK = 1405+83.00 AH
1405+83.00 - 1538+60.63	RTE 37	13277.6	28	41308	EQUATION: 1538+60.63 BK = 1538+77.17 AH
1538+77.17 - 1572+90.00	RTE 37	3412.8	28	10618	
1572+90.00 - 1575+60.00	RTE 37	270.0	33	990	TAPER
1575+60.00 - 1605+83.00	RTE 37	3023.0	38	12764	
858+12.37 - 861+40.50	RTE 112	328.1	VARIES	1996	INCLUDES SHOULDERS
861+78.10 - 865+07.85	RTE DD	329.8	VARIES	1998	INCLUDES SHOULDERS
1605+83.00 - 1608+53.00	RTE 37	270.0	33	990	TAPER
1608+53.00 - 1628+30.00	RTE 37	1977.0	28	6151	
1628+30.00 - 1631+00.00	RTE 37	270.0	33	990	TAPER
1631+00.00 - 1635+75.00	RTE 37	475.0	38	2006	
1635+75.00 - 1638+45.00	RTE 37	270.0	33	990	TAPER
1638+45.00 - 1646+05.00	RTE 37	760.0	28	2364	
1646+05.00 - 1648+75.00	RTE 37	270.0	33	990	TAPER
1648+75.00 - 1657+70.00	RTE 37	895.0	38	3779	
1657+70.00 - 1660+40.00	RTE 37	270.0	33	990	TAPER
1660+40.00 - 1666+50.00	RTE 37	610.0	28	1898	
1666+50.00 - 1669+20.00	RTE 37	270.0	33	990	TAPER
1669+20.00 - 1677+10.00	RTE 37	790.0	38	3336	
1677+10.00 - 1679+80.00	RTE 37	270.0	32	960	
1679+80.00 - 1701+66.40	RTE 37	2186.4	28	6802	
		SUBTOTAL (2)		323621	
		SUBTOTAL (1)		337858	
			TOTAL	661479	
			USE	661,479	

SUMMARY OF QUANTITIES
SHEET 2 OF 16

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/19/2020
ROUTE 37 | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY BARRY
JOB NO. J7P3120
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.

1.50" ASPHALTIC CONCRETE (A)

STA. TO STA.	LOCATION	LENGTH (FT)	✳ WIDTH (FT)	SP095C (PG70-22) @ 1.960 TONS/CY (TON)	TACK @ 0.10 GAL/SY (GAL)	REMARKS
2+00.00 - 3+09.87	RTE 37	109.9	53	52.8	64.7	
3+09.87 - 3+65.75	RTE 37	55.9	47	23.8	29.2	RT TURN LANE TAPERS
3+65.75 - 68+00.00	RTE 37	6434.3	40	2335.4	2859.7	
68+00.00 - 69+00.00	RTE 37	100.0	46	41.7	51.1	RT TURN LANE TAPERS
69+00.00 - 69+82.30	RTE 37	82.3	52	38.8	47.6	W/RT TURN LANE
69+82.30 - 71+91.80	RTE 37	209.5	40	240.7	294.1	THRU INTERSECTION
20+36.50 - 21+87.46	FR2022	151.0	VARIES	102.6	125.6	
71+91.80 - 91+79.00	RTE 37	1987.2	40	721.3	883.2	
91+79.00 - 97+78.01	RTE 37	599.0	40	217.4	266.2	EQ: 97+78.01 BK = 97+85.85 AH
97+85.85 - 157+18.00	RTE 37	5932.2	40	2153.2	2636.5	
157+18.00 - 164+38.00	RTE 37	720.0	40	261.3	320.0	
164+38.00 - 171+46.00	RTE 37	708.0	40	257.0	314.7	
166+70.90 - 168+48.70	RTE 37 RT	177.8	VARIES	37.0	45.3	50' ONTO FR2040
166+71.80 - 169+12.40	RTE 37 LT	240.6	VARIES	56.0	68.6	50' ONTO RTE BB
171+46.00 - 175+06.00	RTE 37	360.0	34	111.1	136.0	TAPER
175+06.00 - 183+90.00	RTE 37	884.0	28	224.6	275.0	
183+90.00 - 187+50.00	RTE 37	360.0	34	111.1	136.0	TAPER
187+50.00 - 254+00.00	RTE 37	6650.0	40	2413.7	2955.6	
254+00.00 - 258+20.00	RTE 37	420.0	40	152.4	186.7	
258+20.00 - 261+80.00	RTE 37	360.0	40	130.7	160.0	
261+80.00 - 266+00.00	RTE 37	420.0	40	152.4	186.7	
266+00.00 - 298+30.00	RTE 37	3230.0	40	1172.4	1435.6	
298+30.00 - 305+50.00	RTE 37	720.0	40	261.3	320.0	
305+50.00 - 309+26.00	RTE 37	376.0	40	136.5	167.1	
309+26.00 - 312+58.88	RTE 37	332.9	34.75	105.0	128.5	EQ: 312+58.88 BK = 312+63.75 AH
312+63.75 - 312+85.10	RTE 37	21.3	28.75	5.6	6.8	
312+85.10 - 321+10.00	RTE 37	824.9	28	209.6	256.6	
321+10.00 - 324+70.00	RTE 37	360.0	34	111.1	136.0	TAPER
324+70.00 - 331+80.00	RTE 37	710.0	40	257.7	315.6	
331+80.00 - 335+40.00	RTE 37	360.0	34	111.1	136.0	TAPER
335+40.00 - 352+45.44	RTE 37	1705.4	28	433.3	530.6	EQ: 352+45.44 BK = 353+25.66 AH
353+25.66 - 362+25.00	RTE 37	899.3	28	228.5	279.8	
362+25.00 - 365+85.00	RTE 37	360.0	34	111.1	136.0	TAPER
365+85.00 - 373+30.00	RTE 37	745.0	40	270.4	331.1	
373+30.00 - 376+90.00	RTE 37	360.0	34	111.1	136.0	TAPER
376+90.00 - 378+60.00	RTE 37	170.0	28	43.2	52.9	
380+66.20 - 381+64.70	RTE B	98.5	VARIES	79.0	97.4	
0+19.50 - 1+18.00	RTE C	98.5	VARIES	79.5	96.8	
378+60.00 - 382+80.00	RTE 37	420.0	34	129.6	158.7	TAPER
382+80.00 - 438+00.00	RTE 37	5520.0	40	2003.6	2453.3	
438+00.00 - 442+20.00	RTE 37	420.0	34	129.6	158.7	TAPER
442+20.00 - 445+84.00	RTE 37	364.0	28	92.5	113.2	
445+84.00 - 502+15.00	RTE 37	5631.0	43.5	2222.7	2721.7	
502+15.00 - 509+35.00	RTE 37	720.0	39.75	259.7	318.0	
509+35.00 - 514+38.90	RTE 37	503.9	40	182.9	224.0	
444+08.75 - 445+08.30	RTE HH	99.6	VARIES	70.5	86.3	
514+38.90 - 521+58.90	RTE 37	720.0	39.75	259.7	318.0	
521+58.90 - 549+11.00	RTE 37	2752.1	43.5	1086.3	1330.2	
549+11.00 - 567+35.00	RTE 37	1824.0	43.5	720.0	881.6	
0+21.93 - 0+81.23	FR2115	59.3	VARIES	40.7	49.8	
567+35.00 - 601+10.00	RTE 37	3375.0	44.5	1362.8	1668.8	
601+10.00 - 607+70.00	RTE 37	660.0	39.75	238.1	291.5	
607+70.00 - 612+70.00	RTE 37	500.0	40	181.5	222.2	
0+19.50 - 0+73.76	RTE U	54.3	VARIES	61.8	75.6	
612+70.00 - 616+30.00	RTE 37	360.0	34	111.1	136.0	TAPER
616+30.00 - 634+83.10	RTE 37	1853.1	28	470.8	576.5	
634+83.10 - 638+47.72	RTE 37	364.6	34	112.5	137.7	TAPER
638+47.72 - 639+50.00	RTE 37	102.3	46.5	43.2	52.8	TAPER
639+50.00 - 641+18.78	RTE 37	168.8	44	67.4	82.5	
465+87.40 - 466+75.37	RTE W	88.0	VARIES	67.8	83.0	
467+19.12 - 467+90.60	RTE W	71.5	VARIES	55.0	67.3	
641+18.78 - 645+56.93	RTE 37	438.2	40	360.9	441.8	
645+56.93 - 650+66.20	RTE 37	509.3	34	157.1	192.4	
650+66.20 - 693+70.00	RTE 37	4303.8	28	1093.5	1339.0	
693+70.00 - 711+30.00	RTE 37	1760.0	VAR.	476.5	583.4	NEW LT TURN LANES & FR2140
711+30.00 - 724+54.00	RTE 37	1324.0	28	336.4	411.9	
724+54.00 - 727+64.89	RTE 37	310.9	34	95.9	117.4	TAPER
727+64.89 - 765+86.22	RTE 37	3821.3	40	1387.0	1698.4	
765+86.22 - 769+46.22	RTE 37	360.0	37	120.9	148.0	TAPER
769+46.22 - 771+71.22	RTE 37	225.0	37	75.5	92.5	TAPER
		SUBTOTAL (A)		27634.5	33837.2	

✳ WIDTHS MAY VARY
MEASURED ON GOOGLE EARTH

1.50" ASPHALTIC CONCRETE (B)

STA. TO STA.	LOCATION	LENGTH (FT)	✳ WIDTH (FT)	SP095C (PG70-22) @ 1.960 TONS/CY (TON)	TACK @ 0.10 GAL/SY (GAL)	REMARKS
771+71.22 - 774+74.74	RTE 37	303.5	40	110.2	134.9	
0+15.61 - 0+85.57	BUS RTE 37	70.0	VARIES	34.6	42.4	
774+74.74 - 778+34.44	RTE 37	359.7	40	130.6	159.9	
778+34.44 - 816+70.00	RTE 37	3835.6	40	1392.2	1704.7	
816+70.00 - 817+54.55	RTE 37	84.6	38.5	29.5	36.2	EQ: 817+54.55 BK = 817+58.33 AH
817+58.33 - 820+20.00	RTE 37	261.7	32.5	77.2	94.5	
820+20.00 - 828+05.00	RTE 37	785.0	28	199.4	244.2	
828+05.00 - 831+64.90	RTE 37	359.9	34	111.0	136.0	TAPER
831+64.90 - 896+56.00	RTE 37	6491.1	40	2356.0	2884.9	
896+56.00 - 900+16.00	RTE 37	360.0	34	111.1	136.0	TAPER
900+16.00 - 907+77.00	RTE 37	761.0	28	193.4	236.8	
907+77.00 - 911+40.87	RTE 37	363.9	34	112.3	137.5	TAPER
911+40.87 - 912+27.40	RTE 37	86.5	46	36.1	44.2	TAPER
912+27.40 - 914+20.00	RTE 37	192.6	52	90.9	111.3	
914+20.00 - 918+42.50	RTE 37	422.5	40	153.4	187.8	
19+00.00 - 19+80.50	FR2180	80.5	VARIES	88.4	108.2	
20+19.50 - 21+00.00	EXETER RD	80.5	VARIES	106.3	130.1	
918+42.50 - 922+02.50	RTE 37	360.0	34	111.1	136.0	TAPER
922+02.50 - 929+74.81	RTE 37	772.3	28	196.2	240.3	
929+74.81 - 933+34.82	RTE 37	360.0	34	111.1	136.0	TAPER
933+34.82 - 948+28.50	RTE 37	1493.7	40	542.2	663.9	
931+54.71 - 936+47.53	RTE 76/86	492.8	VARIES	240.0	295.4	
938+08.07 - 943+09.70	RTE 76/86	501.6	VARIES	222.6	274.0	
948+28.50 - 951+88.50	RTE 37	360.0	34	111.1	136.0	TAPER
951+88.50 - 957+16.61	RTE 37	528.1	28	134.2	164.3	EQ: 957+16.61 BK = 480+73.00 AH
480+73.00 - 580+54.78	RTE 37	9981.8	28	2536.1	3105.4	EQ: 580+54.78 BK = 580+34.40 AH
580+34.40 - 613+81.26	RTE 37	3346.9	28	850.4	1041.2	EQ: 613+81.26 BK = 614+01.08 AH
614+01.08 - 712+69.55	RTE 37	9868.5	28	2507.3	3070.2	EQ: 712+69.65 BK = 713+14.60 AH
713+14.60 - 771+14.33	RTE 37	5799.7	28	1473.6	1804.4	
771+14.33 - 815+92.44	RTE 37					EXCEPTION NEW PASS LANE (J7P3400)
						EQ: 780+40.85 BK = 780+52.71 AH
815+92.44 - 819+42.00	RTE 37	349.6	28	88.8	108.8	
819+42.00 - 819+93.00	RTE 37	51.0	28.5	13.2	16.2	EQ: 819+93.00 BK = 1272+50.00 AH
1272+50.00 - 1275+37.00	RTE 37	287.0	30	78.1	95.7	TAPER
1275+37.00 - 1294+78.00	RTE 37	1941.0	31	546.0	668.6	
461+00.00 - 463+71.71	RTE 90	271.7	VARIES	94.0	115.2	
1294+78.00 - 1298+00.00	RTE 37	322.0	28	81.8	100.2	TAPER
1298+00.00 - 1302+63.00	RTE 37	463.0	25	105.0	128.6	
1302+63.00 - 1325+57.01	RTE 37	2294.0	28	582.8	713.7	EQ: 1325+57.01 BK = 1325+58.00 AH
1325+58.00 - 1342+00.00	RTE 37	1642.0	28	417.2	510.8	EQ: 1342+00.00 BK = 1345+64.70 AH
1345+64.70 - 1364+91.22	RTE 37	1926.5	28	489.5	599.4	EQ: 1364+91.22 BK = 1365+33.10 AH
1365+33.10 - 1404+71.60	RTE 37	3938.5	28	1000.7	1225.3	EQ: 1404+71.60 BK = 1405+83.00 AH
1405+83.00 - 1538+60.63	RTE 37	13277.6	28	3373.5	4130.8	EQ: 1538+60.63 BK = 1538+77.17 AH
1538+77.17 - 1572+90.00	RTE 37	3412.8	28	867.1	1061.8	
1572+90.00 - 1575+60.00	RTE 37	270.0	33	80.9	99.0	TAPER
1575+60.00 - 1605+83.00	RTE 37	3023.0	38	1042.4	1276.4	
858+12.37 - 861+40.50	RTE 112	328.1	VARIES	163.0	199.6	INCLUDES SHOULDERS
861+78.10 - 865+07.85	RTE DD	329.8	VARIES	163.2	199.8	INCLUDES SHOULDERS
1605+83.00 - 1608+53.00	RTE 37	270.0	33	80.9	99.0	TAPER
1608+53.00 - 1628+30.00	RTE 37	1977.0	28	502.3	615.1	
1628+30.00 - 1631+00.00	RTE 37	270.0	33	80.9	99.0	TAPER
1631+00.00 - 1635+75.00	RTE 37	475.0	38	163.8	200.6	
1635+75.00 - 1638+45.00	RTE 37	270.0	33	80.9	99.0	TAPER
1638+45.00 - 1646+05.00	RTE 37	760.0	28	193.1	236.4	
1646+05.00 - 1648+75.00	RTE 37	270.0	33	80.9	99.0	TAPER
1648+75.00 - 1657+70.00	RTE 37	895.0	38	308.6	377.9	
1657+70.00 - 1660+40.00	RTE 37	270.0	33	80.9	99.0	TAPER
1660+40.00 - 1666+50.00	RTE 37	610.0	28	155.0	189.8	
1666+50.00 - 1669+20.00	RTE 37	270.0	33	80.9	99.0	TAPER
1669+20.00 - 1677+10.00	RTE 37	790.0	38	272.4	333.6	
1677+10.00 - 1679+80.00	RTE 37	270.0	32	78.4	96.0	
1679+80.00 - 1701+66.40	RTE 37	2186.4	28	555.5	680.2	
				2438.4		IRREGULARITIES 75 TONS/MILE
		SUBTOTAL (B)		28707.8	32169.6	ANY AND ALL IRREGULARITIES MAY
		SUBTOTAL (A)		27634.5	33837.2	BE UNDERRUN AND NO ADJUSTMENT
		SUBTOTAL		56342.3	66006.9	TO ANY BID COST WILL BE MADE.
			USE	56,342.3	- ✳✳	

✳✳ SEE SHEET 5 OF 16

SUMMARY OF QUANTITIES
SHEET 3 OF 16

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/19/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	3

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

BITUMINOUS FOG SEAL (1)

STA. TO STA.	LOCATION	LENGTH (FT)	WIDTH (FT)	FOG SEAL 0.25 GAL/SY (GAL)	REMARKS
2+00.00 - 2+86.68	RTE 37	86.7	7	16.9	LT SHOULDER
2+00.00 - 3+09.87	RTE 37	109.9	7	21.4	RT SHOULDER
2+86.68 - 3+09.87	RTE 37	23.2	4.5	2.9	LT SHOULDER
3+09.87 - 3+65.75	RTE 37	55.9	5	7.8	RT SHOULDER
3+56.86 - 3+65.75	RTE 37	8.9	3	0.7	LT SHOULDER
3+65.75 - 68+00.00	RTE 37	6434.3	8	1429.8	2 - 4' SHOULDERS
68+00.00 - 71+91.80	RTE 37	391.8	4	43.5	LT SHOULDER
68+00.00 - 69+00.00	RTE 37	100.0	5.5	15.3	RT SHOULDER
69+00.00 - 69+82.30	RTE 37	82.3	4.5	11.0	RT SHOULDER
71+91.80 - 97+78.01	RTE 37	2586.2	8	574.7	2 - 4' SHOULDERS
	RTE 37				EQ: 97+78.01 BK = 97+85.85 AH
97+85.85 - 166+70.90	RTE 37	6885.1	8	1530.0	2 - 4' SHOULDERS
168+48.70 - 171+46.00	RTE 37	297.3	4	33.0	
169+12.40 - 171+46.00	RTE 37	233.6	4	26.0	LT SHOULDER
171+46.00 - 175+06.00	RTE 37	360.0	14	140.0	2 - TAPERED SHOULDERS
175+06.00 - 183+90.00	RTE 37	884.0	20	491.1	2 - 10' SHOULDERS
183+90.00 - 187+50.00	RTE 37	360.0	14	140.0	2 - TAPERED SHOULDERS
187+50.00 - 254+00.00	RTE 37	6650.0	8	1477.8	2 - 4' SHOULDERS
254+00.00 - 266+00.00	RTE 37	1200.0	8	266.7	2 - 4' SHOULDERS
266+00.00 - 309+26.00	RTE 37	4326.0	8	961.3	2 - 4' SHOULDERS
309+26.00 - 312+58.88	RTE 37	332.9	14	129.5	2 - TAPERED SHOULDERS
	RTE 37				EQ: 312+58.88 BK = 312+63.75 AH
312+63.75 - 312+85.10	RTE 37	21.3	14	8.3	2 - TAPERED SHOULDERS
312+85.10 - 321+10.00	RTE 37	824.9	20	458.3	2 - 10' SHOULDERS
321+10.00 - 324+70.00	RTE 37	360.0	14	140.0	2 - TAPERED SHOULDERS
324+70.00 - 331+80.00	RTE 37	710.0	8	157.8	2 - 4' SHOULDERS
331+80.00 - 335+40.00	RTE 37	360.0	14	140.0	2 - TAPERED SHOULDERS
335+40.00 - 352+45.44	RTE 37	1705.4	20	947.5	2 - 10' SHOULDERS
	RTE 37				EQ: 352+45.44 BK = 353+25.66 AH
353+25.66 - 362+25.00	RTE 37	899.3	20	499.6	2 - 10' SHOULDERS
362+25.00 - 365+85.00	RTE 37	360.0	14	140.0	2 - TAPERED SHOULDERS
365+85.00 - 367+95.40	RTE 37	210.4	8	46.8	2 - 4' SHOULDERS
371+20.80 373+30.00	RTE 37	209.2	8	46.5	2 - 4' SHOULDERS
373+30.00 - 376+90.00	RTE 37	360.0	14	140.0	2 - TAPERED SHOULDERS
376+90.00 - 378+60.00	RTE 37	170.0	20	94.4	2 - 10' SHOULDERS
378+60.00 - 382+80.00	RTE 37	420.0	14	163.3	2 - TAPERED SHOULDERS
382+80.00 - 438+00.00	RTE 37	5520.0	8	1226.7	2 - 4' SHOULDERS
438+00.00 - 442+20.00	RTE 37	420.0	10	116.7	2 - TAPERED SHOULDERS
442+20.00 - 445+84.00	RTE 37	364.0	12	121.3	2 - 6' SHOULDERS
445+84.00 - 450+04.00	RTE 37	420.0	10	116.7	2 - TAPERED SHOULDERS
502+15.00 - 509+35.00	RTE 37	720.0	5	140.0	2 - TAPERED SHOULDERS
509+35.00 - 514+38.90	RTE 37	503.9	4	56.0	LT. 4' SHOULDER
509+35.00 - 509+59.20	RTE 37	24.2	4	2.7	RT. 4' SHOULDER
512+45.50 - 514+38.90	RTE 37	193.4	4	21.5	RT. 4' SHOULDER
514+38.90 - 521+58.90	RTE 37	720.0	6	120.0	2 - TAPERED SHOULDERS
601+10.00 - 607+70.00	RTE 37	660.0	6	110.0	2 - TAPERED SHOULDERS
607+70.00 - 612+70.00	RTE 37	500.0	8	111.1	2 - 4' SHOULDERS
612+70.00 - 616+30.00	RTE 37	360.0	10	100.0	2 - TAPERED SHOULDERS
616+30.00 - 634+83.10	RTE 37	1853.1	12	617.7	2 - 6' SHOULDERS
634+83.10 - 638+47.72	RTE 37	364.6	3.5	35.4	TAPER LT SHOULDER
634+83.10 - 638+47.72	RTE 37	364.6	7	70.9	TAPER RT SHOULDER
638+47.72 - 639+50.00	RTE 37	102.3	4.5	12.8	TAPER RT SHOULDER
645+56.93 - 650+66.20	RTE 37	509.3	3.5	49.5	TAPER LT SHOULDER
645+56.93 - 650+66.20	RTE 37	509.3	3	42.4	TAPER RT SHOULDER
650+66.20 - 693+70.00	RTE 37	4303.8	12	1434.6	2 - 6' SHOULDERS
711+30.00 - 713+30.00	RTE 37	200.0	12	66.7	2 - 6' SHOULDERS
713+30.00 - 715+30.00	RTE 37	200.0	16	88.9	2 - TAPERED SHOULDERS
715+30.00 - 724+41.16	RTE 37	911.2	20	506.2	2 - 10' SHOULDERS
724+41.16 - 727+64.89	RTE 37	323.7	14	125.9	2 - TAPERED SHOULDERS
727+64.89 - 765+86.22	RTE 37	3821.3	8	849.2	2 - 4' SHOULDERS
		SUBTOTAL (1)		16444.6	

BITUMINOUS FOG SEAL (2)

STA. TO STA.	LOCATION	LENGTH (FT)	WIDTH (FT)	FOG SEAL 0.25 GAL/SY (GAL)	REMARKS
765+86.22 - 769+46.22	RTE 37	360.0	7	70.0	TAPER LT SHOULDER
765+86.22 - 769+46.22	RTE 37	360.0	4	40.0	RT SHOULDER
769+46.22 - 774+74.74	RTE 37	528.5	10	146.8	LT SHOULDER
769+46.22 - 778+34.44	RTE 37	888.2	4	98.7	RT SHOULDER
774+74.74 - 778+34.44	RTE 37	359.7	7	69.9	LT SHOULDER
778+34.44 - 816+70.00	RTE 37	3835.6	8	852.3	2 - 4' SHOULDERS
816+70.00 - 817+54.55	RTE 37	84.6	14	32.9	2 - TAPERED SHOULDERS
					EQ: 817+54.55 BK = 817+58.33 AH
817+58.33 - 820+30.00	RTE 37	271.7	14	105.6	2 - TAPERED SHOULDERS
820+30.00 - 828+05.00	RTE 37	775.0	20	430.6	2 - 10' SHOULDERS
828+05.00 - 831+64.90	RTE 37	359.9	14	140.0	2 - TAPERED SHOULDERS
831+64.90 - 896+56.00	RTE 37	6491.1	8	1442.5	2 - 4' SHOULDERS
896+56.00 - 900+16.00	RTE 37	360.0	14	140.0	2 - TAPERED SHOULDERS
900+16.00 - 907+77.00	RTE 37	761.0	20	422.8	2 - 10' SHOULDERS
907+77.00 - 918+42.50	RTE 37	1065.5	8	236.8	2 - 4' SHOULDERS
19+00.00 - 19+80.50	FR2180	VARIES	8	34.0	2 - 4' SHOULDERS
20+19.50 - 21+00.00	EXETER RD	VARIES	8	54.1	2 - 4' SHOULDERS
918+42.50 - 922+02.50	RTE 37	360.0	14	140.0	2 - TAPERED SHOULDERS
922+02.50 - 929+74.82	RTE 37	772.3	20	429.1	2 - 10' SHOULDERS
929+74.82 - 933+34.82	RTE 37	360.0	14	140.0	2 - TAPERED SHOULDERS
933+34.82 - 936+30.80	RTE 37	296.0	8	65.8	2 - 4' SHOULDERS
936+30.80 - 937+90.80	RTE 37	160.0	12	53.3	2 - TAPERED SHOULDERS
937+90.80 - 942+06.06	RTE 37	415.3	16	184.6	2 - 8' SHOULDERS
930+87.60 - 937+18.35	RTE 76/86	630.8	16	280.3	2 - 8' SHOULDERS
937+59.05 - 943+09.70	RTE 76/86	550.6	16	244.7	2 - 8' SHOULDERS
942+06.06 - 945+10.94	RTE 37	304.9	12	101.6	2 - TAPERED SHOULDERS
945+10.94 - 948+28.50	RTE 37	317.6	8	70.6	2 - 4.5' SHOULDERS
948+28.50 - 951+88.50	RTE 37	360.0	14	140.0	2 - TAPERED SHOULDERS
951+88.50 - 957+16.91	RTE 37	528.4	20	293.6	2 - 10' SHOULDERS
					EQ: 957+16.61 BK = 480+73.00 AH
480+73.00 - 483+97.28	RTE 37	324.3	17	153.1	1 - 10' SHOULDER, 1 - TAPERED SHLDR
483+97.28 - 486+23.69	RTE 37	226.4	14	88.0	1 - 10' SHOULDER, 1- 4' SHOULDER
486+23.69 - 580+54.78	RTE 37	9431.1	8	2095.8	2 - 4' SHOULDERS
					EQ: 580+54.78 BK = 580+34.40 AH
580+34.40 - 613+81.26	RTE 37	3346.9	8	743.7	2 - 4' SHOULDERS
					EQ: 613+81.26 BK = 614+01.08 AH
614+01.08 - 712+69.65	RTE 37	9868.6	8	2193.0	2 - 4' SHOULDERS
					EQ: 712+69.65 BK = 713+14.60 AH
713+14.60 - 771+14.33	RTE 37	5799.7	8	1288.8	2 - 4' SHOULDERS
771+14.33 - 815+92.44	RTE 37				NEW PASSING LANE (J7P3400)
					EQ: 780+40.85 BK = 780+52.71 AH
815+92.44 - 819+93.00	RTE 37	400.6	8	89.0	2 - 4' SHOULDERS
					EQ: 819+93.00 BK = 1272+50.00 AH
1272+50.00 - 1272+70.61	RTE 37	20.6	8	4.6	2 - 4' SHOULDERS
1302+63.00 - 1325+57.01	RTE 37	2294.0	8	509.8	2 - 4' SHOULDERS
					EQ: 1325+57.01 BK = 1325+58.00 AH
1325+58.00 - 1342+00.00	RTE 37	1642.0	8	364.9	2 - 4' SHOULDERS
					EQ: 1342+00.00 BK = 1345+64.70 AH
1345+64.70 - 1364+91.22	RTE 37	1926.5	8	428.1	2 - 4' SHOULDERS
					EQ: 1364+91.22 BK = 1365+33.10 AH
1365+33.10 - 1404+71.60	RTE 37	3938.5	8	875.2	2 - 4' SHOULDERS
					EQ: 1404+71.60 BK = 1405+83.00 AH
1405+83.00 - 1538+60.63	RTE 37	13277.6	8	2950.6	2 - 4' SHOULDERS
					EQ: 1538+60.63 BK = 1538+77.17 AH
1538+77.17 - 1570+20.00	RTE 37	3142.8	8	698.4	2 - 4' SHOULDERS
1570+20.00 - 1571+20.00	RTE 37	100.0	12	33.3	2 - TAPERED SHOULDERS
1571+20.00 - 1572+90.00	RTE 37	170.0	16	75.6	2 - 8' SHOULDERS
1572+90.00 - 1575+60.00	RTE 37	270.0	11	82.5	2 - TAPERED SHOULDERS
1575+60.00 - 1605+83.00	RTE 37	3023.0	6	503.8	2 - 3' SHOULDERS
1605+83.00 - 1608+53.00	RTE 37	270.0	11	82.5	2 - TAPERED SHOULDERS
1608+53.00 - 1628+30.00	RTE 37	1977.0	16	878.7	2 - 8' SHOULDERS
1628+30.00 - 1631+00.00	RTE 37	270.0	11	82.5	2 - TAPERED SHOULDERS
1631+00.00 - 1635+75.00	RTE 37	475.0	6	79.2	2 - 3' SHOULDERS
1635+75.00 - 1638+45.00	RTE 37	270.0	11	82.5	2 - TAPERED SHOULDERS
1638+45.00 - 1646+05.00	RTE 37	760.0	16	337.8	2 - 8' SHOULDERS
		SUBTOTAL (2)		21182.0	

SUMMARY OF QUANTITIES
SHEET 4 OF 16

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/19/2020
ROUTE 37 | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY BARRY
JOB NO. J7P3120
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

REV.	DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

BITUMINOUS FOG SEAL (3)

STA. TO STA.	LOCATION	LENGTH (FT)	WIDTH (FT)	FOG SEAL 0.25 GAL/SY (GAL)	REMARKS
1646+05.00 - 1648+75.00	RTE 37	270.0	11	82.5	2 - TAPERED SHOULDERS
1648+75.00 - 1657+70.00	RTE 37	895.0	6	149.2	2 - 3' SHOULDERS
1657+70.00 - 1660+40.00	RTE 37	270.0	11	82.5	2 - TAPERED SHOULDERS
1660+40.00 - 1666+50.00	RTE 37	610.0	16	271.1	2 - 8' SHOULDERS
1666+50.00 - 1669+20.00	RTE 37	270.0	11	82.5	2 - TAPERED SHOULDERS
1669+20.00 - 1677+10.00	RTE 37	790.0	6	131.7	2 - 3' SHOULDERS
1677+10.00 - 1679+80.00	RTE 37	270.0	11	82.5	2 - TAPERED SHOULDERS
1679+80.00 - 1701+66.40	RTE 37	2186.4	16	971.7	2 - 8' SHOULDERS
		SUBTOTAL (3)		1853.68	
		SUBTOTAL (2)		21182.01	
		SUBTOTAL (1)		16444.60	
		TOTAL/USE:		39480.3*	

*FOG SEAL SHALL BE APPLIED AFTER SHOULDER RUMBLE STRIPS HAVE BEEN CONSTRUCTED, SEE JSP.

PERMANENT AGGREGATE EDGE TREATMENT

STA. TO STA.	LOCATION	LENGTH (FT)	WIDTH (FT)	PERMANENT AGGREGATE TREATMENT @ 200 TONS/MILE (TONS)	TACK @ 0.25 GAL/SY (GAL)	REMARKS
2+00.00 - 97+78.01	RTE 37 LT & RT	9578.0	2	362.80	1064.2	
						EQ: 97+78.01 BK = 97+85.85 AH
97+85.85 - 312+58.88	RTE 37 LT & RT	21473.0	2	813.37	2385.9	
						EQ: 312+58.88 BK = 312+63.75 AH
312+63.75 - 352+45.44	RTE 37 LT & RT	3981.7	2	150.82	442.4	
						EQ: 352+45.44 BK = 353+25.66 AH
353+25.66 - 580+54.78	RTE 37 LT & RT	22729.1	2	860.95	2525.5	
						EQ: 580+54.78 BK = 580+34.40 AH
580+34.40 - 613+81.26	RTE 37 LT & RT	3346.9	2	126.78	371.9	
						EQ: 613+81.26 BK = 614+01.08 AH
614+01.08 - 712+69.65	RTE 37 LT & RT	9868.6	2	373.81	1096.5	
						EQ: 712+69.65 BK = 713+14.60 AH
713+14.60 - 817+54.55	RTE 37 LT & RT	10440.0	2	395.45	1160.0	
						EQ: 817+54.55 BK = 817+58.33 AH
817+58.33 - 957+16.61	RTE 37 LT & RT	13958.3	2	528.72	1550.9	
						EQ: 957+16.61 BK = 480+73.00 AH
480+73.00 - 780+40.85	RTE 37 LT & RT	29967.9	2	1135.15	3329.8	
						EQ: 780+40.85 BK = 780+52.71 AH
780+52.71 - 819+93.00	RTE 37 LT & RT	3940.3	2	149.25	437.8	
						EQ: 819+93.00 BK = 1272+50.00 AH
1272+50.00 1302+40.00	RTE 37					CURB & GUTTER THRU WASHBURN
1302+63.00 - 1342+00.00	RTE 37 LT & RT	3937.0	2	149.13	437.4	
						EQ: 1342+00.00 BK = 1345+64.70 AH
1345+64.70 - 1364+91.22	RTE 37 LT & RT	1926.5	2	72.97	214.1	
						EQ: 1364+91.22 BK = 1365+33.10 AH
1365+33.10 - 1404+71.60	RTE 37 LT & RT	3938.5	2	149.19	437.6	
						EQ: 1404+71.60 BK = 1405+83.00 AH
1405+83.00 - 1538+60.63	RTE 37 LT & RT	13277.6	2	502.94	1475.3	
						EQ: 1538+60.63 BK = 1538+77.17 AH
1538+77.17 - 1701+66.40	RTE 37 LT & RT	16289.2	2	617.02	1809.9	
			SUBTOTAL	6388.35	18739.2	
			USE	6,388.4	-	

TOTAL TACK USAGE

USAGE	(GAL)	REMARKS
PAVEMENT TACK	66006.9	
EDGE TREATMENT	18739.2	
TOTAL	84746.1	
USE	84,746	

RUMBLE STRIPS (1)

STA. TO STA.	LOCATION	LENGTH (FT)	SHOULDER RUMBLE STRIPS (STA)	CENTERLINE RUMBLE STRIPS (STA)	REMARKS
91+79.00 - 97+78.01	RTE 37	599.0	11.98	12.0	LT, RT, & DBL CL
	RTE 37				EQ: 97+78.01 BK = 97+85.85 AH
97+85.85 - 102+25.00	RTE 37	439.2	4.39		RT SHLDR
97+85.85 - 157+18.00	RTE 37	5932.2		118.6	DOUBLE CL
97+85.85 - 113+36.00	RTE 37	1550.2	15.50		LT SHLDR
104+39.70 - 112+56.00	RTE 37	816.3	8.16		RT SHLDR
114+60.00 - 132+62.00	RTE 37	1802.0	18.02		RT SHLDR
117+24.00 - 118+27.00	RTE 37	103.0	1.03		LT SHLDR
124+21.00 - 124+49.00	RTE 37	28.0	0.28		LT SHLDR
126+49.00 - 139+93.00	RTE 37	1344.0	13.44		LT SHLDR
134+62.00 - 166+17.00	RTE 37	3155.0	31.55		RT SHLDR
141+93.00 - 150+70.00	RTE 37	877.0	8.77		LT SHLDR
152+70.00 - 163+70.00	RTE 37	1100.0	11.00		LT SHLDR
157+18.00 - 164+00.00	RTE 37	682.0		6.8	CL
168+88.00 - 170+60.00	RTE 37	172.0	1.72		RT SHLDR
169+55.00 - 183+95.00	RTE 37	1440.0	14.40		LT SHLDR
172+03.00 - 194+70.00	RTE 37	2267.0		22.7	CL
172+60.00 - 175+54.00	RTE 37	294.0	2.94		RT SHLDR
177+76.00 - 178+94.00	RTE 37	118.0	1.18		RT SHLDR
180+94.00 - 185+31.00	RTE 37	437.0	4.37		RT SHLDR
187+31.00 - 199+96.00	RTE 37	1265.0	12.65		RT SHLDR
185+95.00 - 198+26.00	RTE 37	1231.0	12.31		LT SHLDR
194+70.00 - 254+00.00	RTE 37	5930.0		118.6	DOUBLE CL
200+67.00 - 206+52.00	RTE 37	585.0	5.85		LT SHLDR
201+97.00 - 205+70.00	RTE 37	373.0	3.73		RT SHLDR
207+71.00 - 227+74.00	RTE 37	2003.0	20.03		RT SHLDR
208+53.00 - 219+71.00	RTE 37	1118.0	11.18		LT SHLDR
221+73.00 - 228+59.00	RTE 37	686.0	6.86		LT SHLDR
229+85.00 - 258+70.00	RTE 37	2885.0	28.85		RT SHLDR
230+60.00 - 233+99.00	RTE 37	339.0	3.39		LT SHLDR
234+99.00 - 244+96.00	RTE 37	997.0	9.97		LT SHLDR
246+96.00 - 258+74.00	RTE 37	1178.0	11.78		LT SHLDR
254+00.00 - 266+00.00	RTE 37	1200.0		12.0	CL
260+73.00 - 271+98.00	RTE 37	1125.0	11.25		RT SHLDR
262+57.00 - 286+04.00	RTE 37	2347.0	23.47		LT SHLDR
266+00.00 - 298+30.00	RTE 37	3230.0		64.6	DOUBLE CL
274+00.00 - 288+86.00	RTE 37	1486.0	14.86		RT SHLDR
288+04.00 - 308+23.00	RTE 37	2019.0	20.19		LT SHLDR
298+30.00 - 308+50.00	RTE 37	1020.0		10.2	CL
290+87.00 - 307+49.00	RTE 37	1662.0	16.62		RT SHLDR
309+49.00 - 312+58.88	RTE 37	309.9	3.10		RT SHLDR
310+00.00 - 312+58.88	RTE 37	258.9		2.6	CL
310+37.00 - 312+58.88	RTE 37	221.9	2.22		LT SHLDR
	RTE 37				EQ: 312+58.88 BK = 312+63.75 AH
312+63.75 - 326+96.00	RTE 37	1432.3	14.32		RT SHLDR
312+63.75 - 324+70.00	RTE 37	1206.3		12.1	CL
312+63.75 - 327+37.00	RTE 37	1473.3	14.73		LT SHLDR
329+12.00 - 352+45.44	RTE 37	2333.4	23.33		RT SHLDR
329+52.00 - 352+45.44	RTE 37	2293.4	22.93		LT SHLDR
331+80.00 - 352+45.44	RTE 37	2065.4		20.7	CL
	RTE 37				EQ: 352+45.44 BK = 353+25.66 AH
353+25.66 - 354+12.00	RTE 37	86.3	0.86		LT SHLDR
353+25.66 - 365+85.00	RTE 37	1259.3		12.6	CL
355+31.00 - 367+94.80	RTE 37	1263.8	12.64		RT SHLDR
356+12.00 - 367+94.80	RTE 37	1182.8	11.83		LT SHLDR
371+20.80 - 382+94.00	RTE 37	1173.2	11.73		LT SHLDR
371+21.40 - 374+87.00	RTE 37	365.6	3.66		RT SHLDR
373+30.00 - 390+00.00	RTE 37	1670.0		16.7	CL
377+16.00 - 394+47.00	RTE 37	1731.0	17.31		RT SHLDR
385+35.00 - 395+23.00	RTE 37	988.0	9.88		LT SHLDR
390+00.00 - 438+00.00	RTE 37	4800.0		96.0	DOUBLE CL
396+48.00 - 421+17.00	RTE 37	2469.0	24.69		RT SHLDR
397+24.00 - 422+40.00	RTE 37	2516.0	25.16		LT SHLDR
423+30.00 - 448+07.00	RTE 37	2477.0	24.77		RT SHLDR
424+60.00 - 442+62.00	RTE 37	1802.0	18.02		LT SHLDR
	SUBTOTAL (1)		602.92	526.1	

SUMMARY OF QUANTITIES
SHEET 5 OF 16

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/19/2020
ROUTE 37 | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY BARRY
JOB NO. J7P3120
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE | DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.

RUMBLE STRIPS (2)

STA. TO STA.	LOCATION	LENGTH (FT)	SHOULDER RUMBLE STRIPS (STA)	CENTERLINE RUMBLE STRIPS (STA)	REMARKS
438+00.00 - 450+07.00	RTE 37	1207.0		12.1	CL
444+62.00 - 486+50.00	RTE 37	4188.0	41.88		LT SHLDR
450+07.00 - 464+35.00	RTE 37	1428.0	14.28		RT SHLDR
450+07.00 - 502+15.00	RTE 37	5208.0		104.2	DOUBLE CL
466+35.00 - 486+00.00	RTE 37	1965.0	19.65		RT SHLDR
488+00.00 - 508+59.00	RTE 37	2059.0	41.18		RT SHLDR
489+00.00 - 497+33.00	RTE 37	833.0	8.33		LT SHLDR
499+33.00 - 512+84.00	RTE 37	1351.0	13.51		LT SHLDR
502+15.00 - 509+00.00	RTE 37	685.0		6.9	CL
513+40.00 - 519+07.00	RTE 37	567.0	5.67		RT SHLDR
514+38.90 - 521+58.90	RTE 37	720.0		7.2	CL
514+84.00 - 525+80.00	RTE 37	1096.0	10.96		LT SHLDR
521+07.00 - 529+73.00	RTE 37	866.0	8.66		RT SHLDR
521+58.90 - 549+11.00	RTE 37	2752.1		55.0	DOUBLE CL
527+74.00 - 536+55.00	RTE 37	881.0	8.81		LT SHLDR
531+75.00 - 540+16.00	RTE 37	841.0	8.41		RT SHLDR
538+52.00 - 557+52.00	RTE 37	1900.0	19.00		LT SHLDR
542+06.00 - 543+63.00	RTE 37	157.0	1.57		RT SHLDR
545+66.00 - 548+92.00	RTE 37	326.0	3.26		RT SHLDR
549+11.00 - 556+71.00	RTE 37	760.0		7.6	CL
550+96.00 - 567+93.00	RTE 37	1697.0	16.97		RT SHLDR
561+37.00 - 567+35.00	RTE 37	598.0		6.0	CL
561+37.00 - 564+28.00	RTE 37	291.0	2.91		LT SHLDR
566+24.00 - 582+97.00	RTE 37	1673.0	16.73		LT SHLDR
567+35.00 - 601+10.00	RTE 37	3375.0		67.5	DOUBLE CL
570+34.00 - 576+82.00	RTE 37	648.0	6.48		RT SHLDR
578+82.00 - 581+94.00	RTE 37	312.0	3.12		RT SHLDR
584+97.00 - 595+44.00	RTE 37	1047.0	10.47		LT SHLDR
585+77.00 - 586+65.00	RTE 37	88.0	0.88		RT SHLDR
590+39.00 - 637+98.00	RTE 37	4759.0	47.59		RT SHLDR
597+44.00 - 609+26.00	RTE 37	1182.0	11.82		LT SHLDR
601+10.00 - 608+70.00	RTE 37	760.0		7.6	CL
612+70.00 - 638+47.72	RTE 37	2577.7		25.8	CL
613+86.00 - 640+30.00	RTE 37	2644.0	26.44		LT SHLDR
644+16.00 - 689+10.00	RTE 37	4494.0	44.94		RT SHLDR
644+94.00 - 689+52.00	RTE 37	4458.0	44.58		LT SHLDR
645+56.93 - 693+70.00	RTE 37	4813.1		48.1	CL
711+30.00 - 727+64.89	RTE 37	1634.9		16.3	CL
717+21.00 - 720+57.00	RTE 37	336.0	3.36		RT SHLDR
720+31.00 - 722+34.00	RTE 37	203.0	2.03		LT SHLDR
722+57.00 - 727+13.00	RTE 37	456.0	4.56		RT SHLDR
724+34.00 - 735+96.00	RTE 37	1162.0	11.62		LT SHLDR
729+85.00 - 737+05.00	RTE 37	720.0		7.2	CL
729+17.00 - 758+57.00	RTE 37	2940.0	29.40		RT SHLDR
737+05.00 - 765+86.22	RTE 37	2881.2		57.6	DOUBLE CL
737+96.00 - 739+78.00	RTE 37	182.0	1.82		LT SHLDR
741+78.00 - 756+80.00	RTE 37	1502.0	15.02		LT SHLDR
758+80.00 - 773+18.00	RTE 37	1438.0	14.38		LT SHLDR
760+61.00 - 768+85.00	RTE 37	824.0	8.24		RT SHLDR
765+86.22 - 771+71.22	RTE 37	585.0		5.9	CL
770+85.00 - 788+38.00	RTE 37	1753.0	17.53		RT SHLDR
774+74.74 - 778+34.44	RTE 37	359.7		3.6	CL
776+05.00 - 789+18.00	RTE 37	1313.0	13.13		LT SHLDR
778+34.44 - 809+50.00	RTE 37	3115.6		62.3	DOUBLE CL
790+38.00 - 801+14.00	RTE 37	1076.0	10.76		RT SHLDR
791+18.00 - 817+54.55	RTE 37	2636.6	26.37		LT SHLDR
803+14.00 - 817+54.55	RTE 37	1440.6	14.41		RT SHLDR
809+50.00 - 817+54.55	RTE 37	804.6		8.0	CL
	RTE 37				EQ: 817+54.55 BK = 817+58.33 AH
817+58.33 - 825+16.00	RTE 37	757.7	7.58		LT SHLDR
817+58.33 - 839+85.00	RTE 37	2226.7		22.3	CL
	SUBTOTAL (2)		618.30	531.2	

RUMBLE STRIPS (3)

STA. TO STA.	LOCATION	LENGTH (FT)	SHOULDER RUMBLE STRIPS (STA)	CENTERLINE RUMBLE STRIPS (STA)	REMARKS
817+58.33 - 824+02.00	RTE 37	643.7	6.44		RT SHLDR
826+09.00 - 847+42.00	RTE 37	2133.0	21.33		RT SHLDR
827+21.00 - 852+52.00	RTE 37	2531.0	25.31		LT SHLDR
839+85.00 - 886+10.00	RTE 37	4625.0		92.5	DOUBLE CL
849+42.00 - 891+78.00	RTE 37	4236.0	42.36		RT SHLDR
854+56.00 - 892+58.00	RTE 37	3802.0	38.02		LT SHLDR
886+10.00 - 889+70.00	RTE 37	360.0		3.6	CL
893+80.00 - 910+91.00	RTE 37	1711.0	17.11		RT SHLDR
894+60.00 - 912+45.00	RTE 37	1785.0	17.85		LT SHLDR
896+56.00 - 911+40.87	RTE 37	1484.9		14.8	CL
946+79.00 - 954+74.00	RTE 37	795.0	7.95		RT SHLDR
947+23.00 - 957+16.61	RTE 37	993.6	9.94		LT SHLDR
948+28.50 - 957+16.61	RTE 37	888.1		8.9	CL
956+78.00 - 957+16.61	RTE 37	38.6	0.39		RT SHLDR
	RTE 37				EQ: 957+16.61 BK = 480+73.00 AH
480+73.00 - 484+44.00	RTE 37	371.0	7.42		RT SHLDR
480+73.00 - 484+29.00	RTE 37	356.0	3.56		LT SHLDR
480+73.00 - 613+81.26	RTE 37	13308.3		133.1	CL
486+44.00 - 499+35.00	RTE 37	1291.0	12.91		RT SHLDR
487+46.00 - 500+15.00	RTE 37	1269.0	12.69		LT SHLDR
501+35.00 - 508+80.00	RTE 37	745.0	7.45		RT SHLDR
502+15.00 - 511+15.00	RTE 37	900.0	9.00		LT SHLDR
512+60.00 - 524+70.00	RTE 37	1210.0	12.10		RT SHLDR
513+15.00 - 518+15.00	RTE 37	500.0	5.00		LT SHLDR
520+15.00 - 522+90.00	RTE 37	275.0	2.75		LT SHLDR
524+90.00 - 537+65.00	RTE 37	1275.0	12.75		LT SHLDR
528+40.00 - 529+35.00	RTE 37	95.0	0.95		RT SHLDR
531+35.00 - 544+29.00	RTE 37	1294.0	12.94		RT SHLDR
540+75.00 - 546+65.00	RTE 37	590.0	5.90		LT SHLDR
549+29.00 - 550+64.00	RTE 37	135.0	1.35		RT SHLDR
548+65.00 - 551+71.00	RTE 37	306.0	3.06		LT SHLDR
552+68.00 - 554+13.00	RTE 37	145.0	1.45		RT SHLDR
553+75.00 - 554+90.00	RTE 37	115.0	1.15		LT SHLDR
556+13.00 - 566+50.00	RTE 37	1037.0	10.37		RT SHLDR
556+90.00 - 559+70.00	RTE 37	280.0	2.80		LT SHLDR
561+70.00 - 564+25.00	RTE 37	255.0	2.55		LT SHLDR
566+25.00 - 568+40.00	RTE 37	215.0	2.15		LT SHLDR
568+50.00 - 569+99.00	RTE 37	149.0	1.49		RT SHLDR
570+40.00 - 580+54.78	RTE 37	1014.8	10.15		LT SHLDR
571+99.00 - 580+54.78	RTE 37	855.8	8.56		RT SHLDR
580+34.40 - 593+90.00	RTE 37	1355.6	13.56		LT SHLDR
580+34.40 - 580+60.00	RTE 37	25.6	0.26		RT SHLDR
584+00.00 - 600+10.00	RTE 37	1610.0	16.10		RT SHLDR
595+90.00 - 612+70.00	RTE 37	1680.0	16.80		LT SHLDR
603+80.00 - 606+20.00	RTE 37	240.0	2.40		RT SHLDR
608+20.00 - 613+81.26	RTE 37	561.3	5.61		RT SHLDR
	RTE 37				EQ: 613+81.26 BK. = 614+01.08 AH.
614+01.08 - 712+69.65	RTE 37	9868.6		98.7	CL
614+01.08 - 615+30.00	RTE 37	128.9	1.29		RT SHLDR
616+35.00 - 623+40.00	RTE 37	705.0	7.05		LT SHLDR
618+00.00 - 619+10.00	RTE 37	110.0	1.10		RT SHLDR
622+00.00 - 622+60.00	RTE 37	60.0	0.60		RT SHLDR
625+40.00 - 643+45.00	RTE 37	1805.0	18.05		LT SHLDR
652+90.00 - 629+60.00	RTE 37	-2330.0	-23.30		RT SHLDR, EXCEPTION RTE. W
631+60.00 - 642+75.00	RTE 37	1115.0	11.15		RT SHLDR
644+95.00 - 655+20.00	RTE 37	1025.0	10.25		RT SHLDR
645+85.00 - 655+30.00	RTE 37	945.0	9.45		LT SHLDR
657+20.00 - 666+75.00	RTE 37	955.0	9.55		RT SHLDR
657+00.00 - 668+45.00	RTE 37	1145.0	11.45		LT SHLDR
670+05.00 - 679+10.00	RTE 37	905.0	9.05		RT SHLDR
670+85.00 - 671+85.00	RTE 37	100.0	1.00		LT SHLDR
675+70.00 - 678+80.00	RTE 37	310.0	3.10		LT SHLDR
680+80.00 - 684+16.00	RTE 37	336.0	3.36		LT SHLDR
681+10.00 - 690+50.00	RTE 37	940.0	9.40		RT SHLDR
686+16.00 - 690+90.00	RTE 37	474.0	4.74		LT SHLDR
	SUBTOTAL (3)		479.20	351.6	

SUMMARY OF QUANTITIES
SHEET 6 OF 16

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/19/2020
ROUTE: 37 | STATE: MO
DISTRICT: SW | SHEET NO.: 3
COUNTY: BARRY
JOB NO.: J7P3120
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.

RUMBLE STRIPS (4)

STA. TO STA.	LOCATION	LENGTH (FT)	SHOULDER RUMBLE STRIPS (STA)	CENTERLINE RUMBLE STRIPS (STA)	REMARKS
692+70.00 - 700+10.00	RTE 37	740.0	7.40		RT SHLDR
692+90.00 - 700+90.00	RTE 37	800.0	8.00		LT SHLDR
702+10.00 - 712+69.95	RTE 37	1060.0	10.60		RT SHLDR
702+90.00 - 706+70.00	RTE 37	380.0	3.80		LT SHLDR
708+70.00 - 712+69.65	RTE 37	399.6	4.00		LT SHLDR
	RTE 37				EQ: 712+69.95 BK. = 713+14.60 AH.
713+14.60 - 771+14.33	RTE 37	5799.7		58.0	CL
713+14.60 - 739+91.50	RTE 37	2676.9	26.77		LT SHLDR
713+14.60 - 714+30.00	RTE 37	115.4	1.15		RT SHLDR
721+10.00 - 736+85.00	RTE 37	1575.0	15.75		RT SHLDR
738+85.00 - 751+10.00	RTE 37	1225.0	12.25		RT SHLDR
744+79.00 - 746+79.50	RTE 37	200.5	2.01		LT SHLDR
748+79.50 - 751+50.00	RTE 37	270.5	2.71		LT SHLDR
753+10.00 - 761+95.00	RTE 37	885.0	8.85		RT SHLDR
754+50.00 - 762+90.00	RTE 37	840.0	8.40		LT SHLDR
764+90.00 - 771+08.00	RTE 37	618.0	12.36		LT SHLDR
767+06.00 - 771+14.33	RTE 37	408.3	4.08		RT SHLDR
771+14.33 - 815+92.44	RTE 37				NEW PASSING LANE (J7P3400)
					EQ: 780+40.85 BK = 780+52.71 AH
815+92.44 - 819+93.00	RTE 37	400.6		4.0	CL
815+92.44 - 819+93.00	RTE 37	400.6	4.01		LT SHLDR
	RTE 37				EQ: 819+93.00 BK.=1272+50.00 AH.
1306+44.00 - 1342+00.03	RTE 37	3556.0		35.6	CL
1306+90.00 - 1310+90.00	RTE 37	400.0	4.00		LT SHLDR
1307+53.00 - 1308+83.00	RTE 37	130.0	1.30		RT SHLDR
1312+90.00 - 1316+40.00	RTE 37	350.0	3.50		LT SHLDR
1316+16.00 - 1318+50.00	RTE 37	234.0	2.34		RT SHLDR
1318+40.00 - 1319+30.00	RTE 37	90.0	0.90		LT SHLDR
1320+50.00 - 1325+04.00	RTE 37	454.0	4.54		RT SHLDR
1321+30.00 - 1322+72.00	RTE 37	142.0	1.42		LT SHLDR
1324+72.00 - 1326+05.00	RTE 37	133.0	1.33		LT SHLDR
1327+45.00 - 1328+10.00	RTE 37	65.0	0.65		RT SHLDR
1328+05.00 - 1336+08.00	RTE 37	803.0	8.03		LT SHLDR
1330+50.00 - 1335+91.00	RTE 37	541.0	5.41		RT SHLDR
1337+91.00 - 1342+00.03	RTE 37	409.0	4.09		RT SHLDR
1337+98.00 - 1339+40.00	RTE 37	142.0	1.42		LT SHLDR
	RTE 37				EQ: 1342+00.03 BK.=1345+64.70 AH.
1345+64.70 - 1364+91.22	RTE 37	1926.5		19.3	CL
1345+64.70 - 1358+85.00	RTE 37	1320.3	13.20		RT SHLDR
1345+91.00 - 1348+30.00	RTE 37	239.0	2.39		LT SHLDR
1350+30.00 - 1364+91.22	RTE 37	1461.2	14.61		LT SHLDR
1360+85.00 - 1364+91.22	RTE 37	406.2	4.06		RT SHLDR
	RTE 37				EQ: 136491.22 BK.=1365+33.10 AH.
1365+33.10 - 1404+17.60	RTE 37	3884.5		38.8	CL
1365+33.10 - 1370+60.00	RTE 37	526.9	5.27		RT SHLDR
1365+33.10 - 1365+65.00	RTE 37	31.9	0.32		LT SHLDR
1367+65.00 - 1371+40.00	RTE 37	375.0	3.75		LT SHLDR
1372+60.00 - 1384+05.00	RTE 37	1145.0	11.45		RT SHLDR
1373+40.00 - 1377+34.00	RTE 37	394.0	3.94		LT SHLDR
1379+34.00 - 1398+40.00	RTE 37	1906.0	19.06		LT SHLDR
1386+15.00 - 1404+17.60	RTE 37	1802.6	18.03		RT SHLDR
1400+40.00 - 1404+17.60	RTE 37	377.6	3.78		LT SHLDR
	RTE 37				EQ: 1404+17.60 BK.=1405+83.00 AH.
1405+83.00 - 1538+66.63	RTE 37	13283.6		132.8	CL
1405+83.00 - 1428+85.00	RTE 37	2302.0	23.02		RT SHLDR
1405+83.00 - 1426+40.00	RTE 37	2057.0	20.57		LT SHLDR
1428+40.00 - 1429+80.00	RTE 37	140.0	1.40		LT SHLDR
1430+85.00 - 1454+55.00	RTE 37	2370.0	23.70		RT SHLDR
1431+80.00 - 1437+70.00	RTE 37	590.0	5.90		LT SHLDR
1439+70.00 - 1446+40.00	RTE 37	670.0	6.70		LT SHLDR
1447+55.00 - 1456+20.00	RTE 37	865.0	8.65		RT SHLDR
1448+40.00 - 1455+90.00	RTE 37	750.0	7.50		LT SHLDR
1458+20.00 - 1488+63.00	RTE 37	3043.0	30.43		RT SHLDR
1458+90.00 - 1462+40.00	RTE 37	350.0	3.50		LT SHLDR
1464+40.00 - 1470+60.00	RTE 37	620.0	6.20		LT SHLDR
	SUBTOTAL (4)		408.49	288.5	

RUMBLE STRIPS (5)

STA. TO STA.	LOCATION	LENGTH (FT)	SHOULDER RUMBLE STRIPS (STA)	CENTERLINE RUMBLE STRIPS (STA)	REMARKS
1472+60.00 - 1488+39.00	RTE 37	1579.0	15.79		LT SHLDR
1490+67.00 - 1498+59.00	RTE 37	792.0	7.92		LT SHLDR
1490+88.00 - 1502+20.00	RTE 37	1132.0	11.32		RT SHLDR
1500+59.00 - 1503+45.00	RTE 37	286.0	2.86		LT SHLDR
1504+20.00 - 1513+80.00	RTE 37	960.0	9.60		RT SHLDR
1505+45.00 - 1509+70.00	RTE 37	425.0	4.25		LT SHLDR
1512+70.00 - 1513+35.00	RTE 37	65.0	0.65		LT SHLDR
1516+50.00 - 1517+30.00	RTE 37	80.0	0.80		LT SHLDR
1520+20.00 - 1520+90.00	RTE 37	70.0	0.70		LT SHLDR
1520+70.00 - 1534+65.00	RTE 37	1395.0	13.95		RT SHLDR
1522+90.00 - 1530+21.00	RTE 37	731.0	7.31		LT SHLDR
1534+40.00 - 1536+26.00	RTE 37	186.0	1.86		LT SHLDR
1536+65.00 - 1538+66.63	RTE 37	201.6	2.02		RT SHLDR
	RTE 37				EQ: 1538+66.63 BK.=1538+77.17 AH.
1538+77.17 - 1542+70.00	RTE 37	392.8		3.9	CL
1538+77.17 - 1542+70.00	RTE 37	392.8	3.93		RT SHLDR
1674+43.70 - 1687+78.00	RTE 37	1334.3	13.34		RT SHLDR
1674+65.00 - 1692+93.00	RTE 37	1828.0	18.28		LT SHLDR
1677+10.00 - 1700+50.00	RTE 37	2340.0		23.4	CL
1689+98.00 - 1700+50.00	RTE 37	1052.0	10.52		RT SHLDR
1695+03.00 - 1699+49.50	RTE 37	446.5	4.47		LT SHLDR
	SUBTOTAL (5)		129.56	27.33	
	SUBTOTAL (4)		408.49	288.51	
	SUBTOTAL (3)		479.20	351.60	
	SUBTOTAL (2)		618.30	531.15	
	SUBTOTAL (1)		602.92	526.11	
		TOTAL	2238.46*	1724.70	
		USE	2,238.5*	1,724.7	

* DOES NOT INCLUDE OPTIONAL PAVEMENT AREAS.
NOTE: SHOULDER RUMBLE STRIPS SHALL BE CONSTRUCTED PRIOR TO FOG SEALING, SEE JSP.

OPTIONAL SHOULDER RUMBLE STRIPS

STA.	TO	STA.	LOCATION	LENGTH (FT)	SHOULDER RUMBLE STRIPS (STA)	REMARKS
693+70	-	701+85	RTE. 37 LT.	815.0	8.2	
704+00	-	711+30	RTE. 37 LT.	730.0	7.3	
693+70	-	701+07	RTE. 37 RT.	737.0	7.4	
703+37	-	711+30	RTE. 37 RT.	793.0	7.9	
			TOTAL		30.8**	

**NOTE: SHOULDER RUMBLE STRIPS SHALL BE CONSTRUCTED PRIOR TO FOG SEALING, SEE JSP.

SUMMARY OF QUANTITIES
SHEET 7 OF 16

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/19/2020
ROUTE 37 | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY BARRY
JOB NO. J7P3120
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV. | DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS (A)

STA.	TO	STA.	LOCATION	6" SOLID WHITE (FT)	6" INT. WHITE (FT)	4" SOLID YELLOW (FT)	4" INT. YELLOW (FT)	12" SOLID WHITE (FT)	REMARKS
2+00.00	–	69+82.30	RTE 37	6782					SB EOP
2+00.00	–	71+32.00	RTE 37	6932					NB EOP
2+00.00	–	3+09.87	RTE 37			220			DOUBLE CENTERLINE
3+09.87	–	68+00.00	RTE 37			6490	1623		SB LT TURN CENTERLINE
3+09.87	–	68+00.00	RTE 37			6490	1623		NB LT TURN CENTERLINE
68+00.00	–	71+00.00	RTE 37			600			DOUBLE CENTERLINE
69+00.00	–	71+00.00	RTE 37	200					SB LT TURN LANE
69+00.00	–	71+00.00	RTE 37	200					SB RT LANE LINE
70+30.60	–	70+91.30	RTE 37					255	PAINTED ISLAND RT
19+94.00	–	21+87.46	FR2022	198					LT EOP
20+33.00	–	21+87.46	FR2022	154					EB LT TURN LANE
20+50.00	–	21+87.46	FR2022			275			DOUBLE CENTERLINE
21+10.18	–	21+87.46	FR2022	152					RT EOP
71+91.80	–	368+61.66	RTE 37	29670					SB EOP
72+00.00	–	75+00.00	RTE 37			600			DOUBLE CENTERLINE
72+00.00	–	74+00.00	RTE 37	200					NB LT TURN LANE
72+28.00	–	90+98.00	RTE 37	1870					NB EOP
75+00.00	–	88+00.00	RTE 37			1300	325		SB LT TURN CENTERLINE
75+00.00	–	88+00.00	RTE 37			1300	325		NB LT TURN CENTERLINE
88+00.00	–	90+98.00	RTE 37			596			DOUBLE CENTERLINE
89+00.00	–	90+98.00	RTE 37	198					SB LT TURN LANE
91+79.00	–	97+78.01	RTE 37	599					NB EOP
91+79.00	–	97+78.01	RTE 37			2396			PASSING LANE CENTER LINES
91+79.00	–	97+78.01	RTE 37		150				SB CENTERLINE
97+85.85	–	166+35.00	RTE 37	6849					NB EOP
97+85.85	–	157+18.00	RTE 37			23729			PASSING LANE CENTER LINES
97+85.85	–	151+38.00	RTE 37		1338				SB CENTERLINE
157+18.00	–	165+38.00	RTE 37			1640			LT DOUBLE CENTERLINE
157+18.00	–	167+38.00	RTE 37			2040			RT DOUBLE CENTERLINE
165+38.00	–	167+38.00	RTE 37	200					SB LT TURN LANE
167+58.00	–	167+77.30	RTE 37 LT					64	RTE BB PAINTED ISLAND
167+91.00			RTE 37 LT			70			RTE BB 35' DOUBLE CL
168+05.31	–	168+28.20	RTE 37 LT					83	RTE BB PAINTED ISLAND
168+46.00	–	175+06.00	RTE 37			1320			RT DOUBLE CENTERLINE
168+46.00	–	170+46.00	RTE 37	200					NB LT TURN LANE
170+46.00	–	175+06.00	RTE 37			920			LT DOUBLE CENTERLINE
169+55.00	–	368+67.90	RTE 37	19913					NB EOP
175+06.00	–	183+90.00	RTE 37			1768			DOUBLE CENTERLINE
183+90.00	–	194+70.00	RTE 37			2160			LT DOUBLE CENTERLINE
183+90.00	–	194+70.00	RTE 37			2160			RT DOUBLE CENTERLINE
194+70.00	–	254+00.00	RTE 37			23720			PASSING LANE CENTER LINES
200+50.00	–	254+00.00	RTE 37		1338				NB CENTERLINE
254+00.00	–	258+14.50	RTE 37			829			LT DOUBLE CENTERLINE
254+00.00	–	258+14.50	RTE 37			829			RT DOUBLE CENTERLINE
258+14.50	–	262+30.50	RTE 37			416	104		SB LT TURN CENTERLINE
258+14.50	–	262+30.50	RTE 37			416	104		NB LT TURN CENTERLINE
262+30.50	–	266+00.00	RTE 37			739			LT DOUBLE CENTERLINE
262+30.50	–	266+00.00	RTE 37			739			RT DOUBLE CENTERLINE
266+00.00	–	298+30.00	RTE 37			12920			PASSING LANE CENTER LINES
266+00.00	–	292+50.00	RTE 37		663				SB CENTERLINE
298+30.00	–	308+50.00	RTE 37			2040			LT DOUBLE CENTERLINE
298+30.00	–	306+50.00	RTE 37			1640			RT DOUBLE CENTERLINE
306+50.00	–	308+50.00	RTE 37	200					SB LT TURN LANE
309+20.00	–	312+58.88	RTE 37			678			LT DOUBLE CENTERLINE
309+20.00	–	312+58.88	RTE 37			678			RT DOUBLE CENTERLINE
312+63.75	–	321+10.00	RTE 37			1693			DOUBLE CENTERLINE
321+10.00	–	327+70.00	RTE 37			1320			LT DOUBLE CENTERLINE
321+10.00	–	325+70.00	RTE 37			920			RT DOUBLE CENTERLINE
325+70.00	–	327+70.00	RTE 37	200					SB LT TURN LANE
328+80.00	–	330+80.00	RTE 37	200					NB LT TURN LANE
328+80.00	–	335+40.00	RTE 37			1320			RT DOUBLE CENTERLINE
330+80.00	–	335+40.00	RTE 37			920			LT DOUBLE CENTERLINE
335+40.00	–	362+25.00	RTE 37			5370			DOUBLE CENTERLINE
362+25.00	–	366+85.00	RTE 37			920			RT DOUBLE CENTERLINE
362+25.00	–	368+85.00	RTE 37			1320			LT DOUBLE CENTERLINE
366+85.00	–	368+85.00	RTE 37	200					SB LT TURN LANE
		SUBTOTAL A		75118	3488	115500	4103	402	

HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS (B)

STA.	TO	STA.	LOCATION	6" SOLID WHITE (FT)	6" INT. WHITE (FT)	4" SOLID YELLOW (FT)	4" INT. YELLOW (FT)	12" SOLID WHITE (FT)	REMARKS
380+66.20	–	381+52.00	RTE B			172			DOUBLE CENTERLINE
380+66.20	–	381+66.20	RTE B	195					LT EOP TO RTE 37
380+66.20	–	381+66.20	RTE B	204					RT EOP TO RTE 37
381+27.27	–	381+56.20	RTE B					93	LT PAINTED ISLAND
381+38.91	–	381+56.20	RTE B					59	RT PAINTED ISLAND
0+18.00	–	1+18.00	RTE C	203					LT EOP FROM RTE 37
0+18.00	–	1+18.00	RTE C	195					RT EOP FROM RTE 37
0+28.00	–	0+45.60	RTE C					60	LT PAINTED ISLAND
0+28.00	–	0+56.00	RTE C					90	RT PAINTED ISLAND
0+32.00	–	1+18.00	RTE C			172			DOUBLE CENTERLINE
370+30.00	–	372+30.00	RTE 37	200					NB LT TURN LANE
370+30.00	–	376+90.00	RTE 37			1320			RT DOUBLE CENTERLINE
370+46.70	–	609+60.80	RTE 37	23914					NB EOP
370+53.50	–	509+59.25	RTE 37	13906					SB EOP
372+30.00	–	376+90.00	RTE 37			920			LT DOUBLE CENTERLINE
376+90.00	–	378+60.00	RTE 37			340			DOUBLE CENTERLINE
378+60.00	–	390+00.00	RTE 37			2280			RT DOUBLE CENTERLINE
378+60.00	–	390+00.00	RTE 37			2280			LT DOUBLE CENTERLINE
390+00.00	–	438+00.00	RTE 37			19200			PASSING LANE CENTER LINES
395+80.00	–	438+00.00	RTE 37		1055				NB CENTERLINE
438+00.00	–	442+20.00	RTE 37			840			RT DOUBLE CENTERLINE
438+00.00	–	442+20.00	RTE 37			840			LT DOUBLE CENTERLINE
442+20.00	–	445+84.00	RTE 37			728			DOUBLE CENTERLINE
445+84.00	–	450+04.00	RTE 37			840			RT DOUBLE CENTERLINE
445+84.00	–	450+04.00	RTE 37			840			LT DOUBLE CENTERLINE
450+04.00	–	496+35.00	RTE 37		1158				SB CENTERLINE
450+04.00	–	502+15.00	RTE 37			20844			PASSING LANE CENTER LINES
502+15.00	–	510+37.00	RTE 37			1644			RT DOUBLE CENTERLINE
502+15.00	–	510+37.00	RTE 37			1644			LT DOUBLE CENTERLINE
444+08.75	–	445+09.80	RTE HH	131					LT EOP TO RTE 37
444+08.75	–	445+09.80	RTE HH	131					RT EOP TO RTE 37
444+08.75	–	444+95.00	RTE HH			173			DOUBLE CENTERLINE
444+84.60	–	444+99.80	RTE HH					51	RT PAINTED ISLAND
444+92.60	–	444+99.80	RTE HH					39	LT PAINTED ISLAND
511+39.00	–	513+39.00	RTE 37	200					SB LT TURN LANE
511+39.00	–	521+58.90	RTE 37			2040			RT DOUBLE CENTERLINE
511+45.45	–	641+00.00	RTE 37	12955					SB EOP
513+39.00	–	521+58.90	RTE 37			1640			LT DOUBLE CENTERLINE
521+58.90	–	549+11.00	RTE 37			11008			PASSING LANE CENTER LINES
549+11.00	–	556+71.00	RTE 37			1520			RT DOUBLE CENTERLINE
549+11.00	–	558+71.00	RTE 37			1920			LT DOUBLE CENTERLINE
556+71.00	–	558+71.00	RTE 37	200					SB LT TURN LANE
0+31.23	–	0+81.23	FR2115			100			DOUBLE CENTERLINE
560+02.00	–	567+35.00	RTE 37			1466			RT DOUBLE CENTERLINE
560+02.00	–	567+35.00	RTE 37			1466			LT DOUBLE CENTERLINE
567+35.00	–	595+30.00	RTE 37		699				SB CENTERLINE
567+35.00	–	601+10.00	RTE 37			13500			PASSING LANE CENTER LINES
601+10.00	–	608+70.00	RTE 37			1520			RT DOUBLE CENTERLINE
601+10.00	–	610+70.00	RTE 37			1920			LT DOUBLE CENTERLINE
608+70.00	–	610+70.00	RTE 37	200					SB LT TURN LANE
0+18.00	–	0+73.76	RTE U	139					LT EOP FROM RTE 37
0+18.00	–	0+73.76	RTE U	137					RT EOP FROM RTE 37
0+28.00	–	0+39.39	RTE U					39	LT PAINTED ISLAND
0+28.00	–	0+59.05	RTE U					100	RT PAINTED ISLAND
0+30.00	–	0+73.76	RTE U			88			DOUBLE CENTERLINE
611+67.50	–	616+30.00	RTE 37			925			RT DOUBLE CENTERLINE
611+67.50	–	616+30.00	RTE 37			925			LT DOUBLE CENTERLINE
612+56.20	–	641+07.60	RTE 37	2851					NB EOP
616+30.00	–	619+46.00	RTE 37			632			DOUBLE CENTERLINE
619+46.00	–	622+79.00	RTE 37			333	83		CL LT-SOLID, RT-INT
622+79.00	–	631+66.00	RTE 37				222		INTERMITTANT CL
631+66.00	–	634+83.00	RTE 37			317	79		CL RT-SOLID, LT-INT
634+83.00	–	639+50.00	RTE 37			934			RT DOUBLE CENTERLINE
634+83.00	–	641+54.75	RTE 37			1344			LT DOUBLE CENTERLINE
639+50.00	–	641+98.11	RTE 37	248					SB LT TURN LANE
639+50.00	–	641+98.11	RTE 37	248					SB RT TURN LANE
641+98.00	–	642+11.00	RTE 37	13					NB LANE LINE
		SUBTOTAL B		56270	2912	98673	384	531	

SUMMARY OF QUANTITIES
SHEET 8 OF 16

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/19/2020
ROUTE: 37 | STATE: MO
DISTRICT: SW | SHEET NO.: 3
COUNTY: BARRY
JOB NO.: J7P3120
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE | DESCRIPTION | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS (C)

STA.	TO	STA.	LOCATION	6" SOLID WHITE (FT)	6" INT. WHITE (FT)	4" SOLID YELLOW (FT)	4" INT. YELLOW (FT)	12" SOLID WHITE (FT)	REMARKS
465+87.40	-	466+65.00	RTE W			155			DOUBLE CENTERLINE
465+87.40	-	TO RTE 37	RTE W	176					LEFT EOP
465+87.40	-	TO RTE 37	RTE W	140					RIGHT EOP
466+46.69	-	466+69.79	RTE W					140	RT PAINTED ISLAND
466+57.71	-	466+69.79	RTE W					85	LT PAINTED ISLAND
467+25.78	-	467+34.85	RTE W					63	RT PAINTED ISLAND
467+25.78	-	467+44.52	RTE W					113	LT PAINTED ISLAND
RTE 37	-	467+90.60	RTE W	134					LEFT EOP
RTE 37	-	467+90.60	RTE W	159					RIGHT EOP
467+30.00	-	467+90.60	RTE W			121			DOUBLE CENTERLINE
642+41.77	-	644+75.00	RTE 37	233					NB LT TURN LANE
642+41.77	-	642+72.67	RTE 37	31					NB RT TURN LANE
642+41.77	-	642+63.58	RTE 37	22					SB LANE LINE
642+79.92	-	650+66.00	RTE 37			1572			RT DOUBLE CENTERLINE
643+57.00	-	702+00.00	RTE 37	5843					NB EOP
643+57.00	-	702+00.00	RTE 37	5843					SB EOP
644+75.00	-	650+66.00	RTE 37			1182			LT DOUBLE CENTERLINE
650+66.00	-	664+39.00	RTE 37			1373	343		CL LT-SOLID, RT-INT
664+39.00	-	672+78.50	RTE 37				210		INTERMITTANT CL
672+78.50	-	685+93.25	RTE 37			1315	329		CL RT-SOLID, LT-INT
685+93.25	-	693+70.00	RTE 37			1554			DOUBLE CENTERLINE
693+70.00	-	698+60.00	RTE 37			984			RT DOUBLE CENTERLINE
693+70.00	-	702+00.00	RTE 37			1660			LT DOUBLE CENTERLINE
698+60.00	-	702+00.00	RTE 37	340					SB LT TURN LANE*
703+00.00	-	706+40.00	RTE 37	340					NB LT TURN LANE*
703+00.00	-	773+68.38	RTE 37	7068					NB EOP*
703+00.00	-	892+70.00	RTE 37	18970					SB EOP*
703+00.00	-	711+30.00	RTE 37			1660			RT DOUBLE CENTERLINE
706+40.00	-	711+30.00	RTE 37			984			LT DOUBLE CENTERLINE
711+30.00	-	724+54.00	RTE 37			3068			DOUBLE CENTERLINE
724+54.00	-	728+14.00	RTE 37			720			RT DOUBLE CENTERLINE
724+54.00	-	728+14.00	RTE 37			720			LT DOUBLE CENTERLINE
728+85.00	-	729+35.00	RTE 37	50					NB LT TURN LANE
728+85.00	-	737+05.00	RTE 37			1640			RT DOUBLE CENTERLINE
729+85.00	-	737+05.00	RTE 37			1440			LT DOUBLE CENTERLINE
737+50.00	-	765+86.22	RTE 37			11345			PASSING LANE CENTER LINES
742+85.00	-	765+86.22	RTE 37		575				NB CENTERLINE
765+86.22	-	772+71.22	RTE 37			1370			RT DOUBLE CENTERLINE
765+86.22	-	773+71.22	RTE 37			1570			LT DOUBLE CENTERLINE
772+71.22	-	773+71.22	RTE 37	100					SB LT TURN LANE
0+45.57	-	0+85.57	BUS RTE 37			80			DOUBLE CENTERLINE
774+74.22	-	892+70.00	RTE 37	11796					NB EOP
774+74.22	-	778+34.44	RTE 37			720			RT DOUBLE CENTERLINE
774+74.22	-	778+34.44	RTE 37			720			LT DOUBLE CENTERLINE
778+34.44	-	803+70.00	RTE 37		634				SB CENTERLINE
778+34.44	-	809+50.00	RTE 37			12462			PASSING LANE CENTER LINES
809+50.00	-	820+20.00	RTE 37			2140			RT DOUBLE CENTERLINE
809+50.00	-	820+20.00	RTE 37			2140			LT DOUBLE CENTERLINE
820+20.00	-	828+05.00	RTE 37			1570			DOUBLE CENTERLINE
828+05.00	-	839+85.00	RTE 37			2360			RT DOUBLE CENTERLINE
828+05.00	-	839+85.00	RTE 37			2360			LT DOUBLE CENTERLINE
839+85.00	-	886+10.00	RTE 37			18500			PASSING LANE CENTER LINES
844+65.00	-	886+10.00	RTE 37		1036				NB CENTERLINE
886+10.00	-	890+70.00	RTE 37			920			RT DOUBLE CENTERLINE
886+10.00	-	892+70.00	RTE 37			1320			LT DOUBLE CENTERLINE
890+70.00	-	892+70.00	RTE 37	200					SB LT TURN LANE
893+56.00	-	895+56.00	RTE 37	200					NB LT TURN LANE
893+56.00	-	900+16.00	RTE 37			1320			RT DOUBLE CENTERLINE
893+56.00	-	912+95.50	RTE 37	1940					NB EOP
893+56.00	-	913+39.35	RTE 37	1983					SB EOP
895+56.00	-	900+16.00	RTE 37			920			LT DOUBLE CENTERLINE
900+16.00	-	907+77.00	RTE 37			1522			DOUBLE CENTERLINE
907+77.00	-	912+27.40	RTE 37			901			RT DOUBLE CENTERLINE
907+77.00	-	914+10.00	RTE 37			1266			LT DOUBLE CENTERLINE
912+27.40	-	914+20.00	RTE 37	193					SB LT TURN LANE
912+27.40	-	914+67.15	RTE 37	240					SB RT TURN LANE
			SUBTOTAL C	56000	2245	85235	882	401	

*CONTRAST MARKING WILL BE REQUIRED FOR THE CONCRETE OPTION OF OPTIONAL PAVEMENT AT NO DIRECT PAY.

HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS (D)

STA.	TO	STA.	LOCATION	6" SOLID WHITE (FT)	6" INT. WHITE (FT)	4" SOLID YELLOW (FT)	4" INT. YELLOW (FT)	12" SOLID WHITE (FT)	REMARKS
19+00.00	-	19+70.00	FR2180	140					LT EOP TO RTE 37
19+00.00	-	19+82.00	FR2180	144					RT EOP TO RTE 37
19+00.00	-	19+43.80	FR2180			88			EB DOUBLE CENTERLINE
19+00.00	-	19+54.00	FR2180	54					EB LT TURN LANE
19+26.32	-	19+81.56	FR2180	205					AROUND LT ISLANDS
19+41.15	-	19+82.32	FR2180	136					AROUND RT ISLANDS
19+52.95	-	19+81.00	FR2180					130	ON LT ISLANDS
19+49.50	-	19+76.00	FR2180					91	ON RT ISLANDS
20+17.55	-	20+57.23	EXETER RD.	145					AROUND LT ISLANDS
20+18.32	-	20+59.44	EXETER RD.	148					AROUND RT ISLANDS
20+22.80	-	20+50.75	EXETER RD.					106	ON LT ISLANDS
20+23.55	-	20+44.08	EXETER RD.					148	ON RT ISLANDS
20+18.00	-	21+00.00	EXETER RD.	190					LT EOP FROM RTE 37
20+18.00	-	21+00.00	EXETER RD.	254					RT EOP FROM RTE 37
20+41.20	-	21+00.00	EXETER RD.	59					WB LT TURN LANE
20+56.20	-	21+00.00	EXETER RD.			88			WB DOUBLE CENTERLINE
915+29.50	-	917+42.50	RTE 37	213					NB LT TURN LANE
915+42.50	-	922+02.50	RTE 37			1320			RT DOUBLE CENTERLINE
916+24.75	-	939+06.00	RTE 37	2281					SB EOP
917+06.00	-	939+06.00	RTE 37	2200					NB EOP
917+42.50	-	922+02.50	RTE 37			920			LT DOUBLE CENTERLINE
922+02.50	-	929+74.81	RTE 37			1545			DOUBLE CENTERLINE
929+74.81	-	933+34.82	RTE 37			720			RT DOUBLE CENTERLINE
929+74.81	-	933+34.82	RTE 37			720			LT DOUBLE CENTERLINE
933+34.82	-	948+28.50	RTE 37			1494	373		SB LT TURN CENTERLINE
933+34.82	-	948+28.50	RTE 37			1494	373		NB LT TURN CENTERLINE
936+50.42	-	936+85.53	RTE 76/86	98					LT EOP TO RTE 37
936+60.42	-	936+76.10	RTE 76/86			36			DOUBLE CENTERLINE
936+60.42	-	937+00.00	RTE 76/86	39					LT TURN LANE
936+76.66	-	937+10.19	RTE 76/86					104	LT PAINTED ISLAND
936+66.87	-	937+57.56	RTE 76/86	143					RT EOP TO RTE 37
937+20.48	-	938+10.53	RTE 76/86	142					LT EOP FROM RTE 37
937+67.21	-	938+01.00	RTE 76/86					104	RT PAINTED ISLAND
937+74.20	-	938+16.98	RTE 76/86	41					LT TURN LANE
937+84.00	-	938+16.98	RTE 76/86			70			DOUBLE CENTERLINE
937+90.86	-	938+26.98	RTE 76/86	94					RT EOP FROM RTE 37
941+52.90	-	957+16.61	RTE 37	1564					NB EOP
941+52.90	-	957+16.61	RTE 37	1564					SB EOP
948+28.50	-	951+88.50	RTE 37			720			RT DOUBLE CENTERLINE
948+28.50	-	951+88.50	RTE 37			720			LT DOUBLE CENTERLINE
951+88.50	-	955+62.12	RTE 37			374	93		CL LT-SOLID, RT-INT
955+62.12	-	957+16.61	RTE 37				39		INTERMITTANT CL
480+73.00	-	500+30.51	RTE 37				489		INTERMITTANT CL
480+73.00	-	771+14.33	RTE 37	29041					NB EOP
480+73.00	-	771+14.33	RTE 37	29041					SB EOP
500+30.51	-	509+28.11	RTE 37			898	224		CL RT-SOLID, LT-INT
509+28.11	-	519+84.11	RTE 37			1056	264		CL LT-SOLID, RT-INT
519+84.11	-	525+12.11	RTE 37			1056			DOUBLE CENTERLINE
525+12.11	-	534+62.51	RTE 37			950	238		CL RT-SOLID, LT-INT
534+62.51	-	567+36.11	RTE 37			6547			DOUBLE CENTERLINE
567+36.11	-	576+86.51	RTE 37			950	238		CL LT-SOLID, RT-INT
576+86.51	-	584+05.33	RTE 37			719	180		CL RT-SOLID, LT-INT
584+05.33	-	613+81.26	RTE 37			5952			DOUBLE CENTERLINE
614+01.08	-	694+40.53	RTE 37			16079			DOUBLE CENTERLINE
694+40.53	-	704+96.53	RTE 37			1056	264		CL LT-SOLID, RT-INT
704+96.53	-	712+69.65	RTE 37			773	193		CL RT-SOLID, LT-INT
713+14.60	-	713+86.28	RTE 37			72	18		CL RT-SOLID, LT-INT
713+86.28	-	714+91.88	RTE 37			211			DOUBLE CENTERLINE
714+91.88	-	731+81.48	RTE 37			1690	422		CL LT-SOLID, RT-INT
731+81.48	-	740+26.28	RTE 37			845	211		CL RT-SOLID, LT-INT
740+26.28	-	752+93.48	RTE 37			2534			DOUBLE CENTERLINE
752+93.48	-	762+43.88	RTE 37			950	238		CL LT-SOLID, RT-INT
762+43.88	-	766+66.28	RTE 37				106		CENTER LINE
766+66.28	-	771+14.33	RTE 37			448	112		CL RT-SOLID, LT-INT
			SUBTOTAL D	67936	0	53093	4076	683	

SUMMARY OF QUANTITIES
SHEET 9 OF 16

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/19/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	3

COUNTY: BARRY
JOB NO.: J7P3120
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.

HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS (E)

STA. TO STA.	LOCATION	6" SOLID WHITE (FT)	6" INT. WHITE (FT)	4" SOLID YELLOW (FT)	4" INT. YELLOW (FT)	12" SOLID WHITE (FT)	REMARKS
771+14.33 - 815+92.44	RTE 37						NEW PASSING LANE
							(SEE J7P3400)
815+92.44 - 819+93.00	RTE 37	401					NB EOP
815+92.44 - 819+93.00	RTE 37	401					SB EOP
815+92.44 - 819+42.00	RTE 37			699			DOUBLE CENTERLINE
819+42.00 - 819+93.00	RTE 37			102			RT DOUBLE CENTERLINE
819+42.00 - 819+93.00	RTE 37			102			LT DOUBLE CENTERLINE
1272+50.00 - 1275+37.00	RTE 37			574			RT DOUBLE CENTERLINE
1272+50.00 - 1275+37.00	RTE 37			574			LT DOUBLE CENTERLINE
1275+37.00 - 1287+72.00	RTE 37			1235	309		SB LT TURN CENTERLINE
1275+37.00 - 1287+72.00	RTE 37			1235	309		NB LT TURN CENTERLINE
1272+50.00 - 1325+57.01	RTE 37	5307					NB EOP
1272+50.00 - 1287+33.00	RTE 37	1483					SB EOP
461+00.00 - 463+62.00	RTE 90			524			DOUBLE CENTERLINE
461+00.00 - 463+71.16	RTE 90	287					EB EOP
461+00.00 - 463+71.16	RTE 90	328					WB EOP
462+33.34 - 463+61.34	RTE 90	128					EB RT TURN LANE
463+20.00 - 463+61.34	RTE 90						AROUND ISLAND
1288+43.00 - 1290+43.00	RTE 37			400			DOUBLE CENTERLINE
1288+43.00 - 1289+43.00	RTE 37	100					NB LT TURN LANE
1289+08.50 - 1325+57.01	RTE 37	3649					SB EOP
1290+43.00 - 1294+78.00	RTE 37			435	109		SB LT TURN CENTERLINE
1290+43.00 - 1294+78.00	RTE 37			435	109		NB LT TURN CENTERLINE
1294+78.00 - 1298+00.00	RTE 37			644			LT DOUBLE CENTERLINE
1294+78.00 - 1298+00.00	RTE 37			644			RT DOUBLE CENTERLINE
1298+00.00 - 1306+47.14	RTE 37			1694			DOUBLE CENTERLINE
1306+47.14 - 1314+06.14	RTE 37			759	190		CL LT-SOLID, RT-INT
1314+06.14 - 1324+42.34	RTE 37			1036	259		CL RT-SOLID, LT-INT
1324+42.34 - 1325+57.01	RTE 37			229			DOUBLE CENTERLINE
1325+58.00 - 1364+91.22	RTE 37	3933					NB EOP
1325+58.00 - 1364+91.22	RTE 37	3933					SB EOP
1325+58.00 - 1336+03.94	RTE 37			2092			DOUBLE CENTERLINE
1336+03.94 - 1342+00.03	RTE 37			596	149		CL LT-SOLID, RT-INT
1345+64.70 - 1350+24.61	RTE 37			460	115		CL LT-SOLID, RT-INT
1350+24.61 - 1358+69.41	RTE 37			845	211		CL RT-SOLID, LT-INT
1358+69.41 - 1364+91.22	RTE 37			1244			DOUBLE CENTERLINE
1365+33.10 - 1404+17.60	RTE 37	3885					NB EOP
1365+33.10 - 1404+17.60	RTE 37	3885					SB EOP
1365+33.10 - 1371+25.69	RTE 37			1185			DOUBLE CENTERLINE
1371+25.69 - 1378+64.89	RTE 37			739	185		CL LT-SOLID, RT-INT
1378+64.89 - 1379+70.49	RTE 37			211			DOUBLE CENTERLINE
1379+70.49 - 1389+20.89	RTE 37			950	238		CL RT-SOLID, LT-INT
1389+20.89 - 1404+17.60	RTE 37			2993			DOUBLE CENTERLINE
1405+83.00 - 1538+66.63	RTE 37	13284					NB EOP
1405+83.00 - 1538+66.63	RTE 37	13284					SB EOP
1405+83.00 - 1451+05.49	RTE 37			9045			DOUBLE CENTERLINE
1451+05.49 - 1459+50.29	RTE 37			845	211		CL LT-SOLID, RT-INT
1459+50.29 - 1463+72.69	RTE 37				106		CENTERLINE
1463+72.69 - 1472+17.49	RTE 37			845	211		CL RT-SOLID, LT-INT
1472+17.49 - 1499+63.09	RTE 37			5491			DOUBLE CENTERLINE
1499+63.09 - 1510+19.09	RTE 37			1056	264		CL LT-SOLID, RT-INT
1510+19.09 - 1515+47.09	RTE 37			1056			DOUBLE CENTERLINE
1515+47.09 - 1526+03.09	RTE 37			1056	264		CL RT-SOLID, LT-INT
1526+03.09 - 1538+66.63	RTE 37			2527			DOUBLE CENTERLINE
1538+77.17 - 1592+71.00	RTE 37	5394					NB EOP
1538+77.17 - 1592+55.33	RTE 37	5378					SB EOP
1538+77.17 - 1572+90.00	RTE 37			6826			DOUBLE CENTERLINE
1572+90.00 - 1575+60.00	RTE 37			540			RT DOUBLE CENTERLINE
1572+90.00 - 1575+60.00	RTE 37			540			LT DOUBLE CENTERLINE
1575+60.00 - 1589+98.00	RTE 37			1438	360		SB LT TURN CENTERLINE
1575+60.00 - 1589+98.00	RTE 37			1438	360		NB LT TURN CENTERLINE
1589+98.00 - 1593+28.00	RTE 37			660			LT DOUBLE CENTERLINE
1589+98.00 - 1590+28.00	RTE 37			60			RT DOUBLE CENTERLINE
1591+28.00 - 1593+38.00	RTE 37	210					SB LT TURN LANE
SUBTOTAL E		65267	0	56060	3956	0	

HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS (G)

STA TO STA	LOCATION	6" SOLID WHITE (FT)	4" SOLID YELLOW (FT)	REMARKS
938+29.87 - 943+09.70	ROUTE 76/86	521		EOP EB76
938+07.08 - 943+09.70	ROUTE 76/86	524		EOP EB76
931+54.71 - 937+47.53	ROUTE 76/86	511		EOP WB76
931+54.71 - 937+60.42	ROUTE 76/86	528		EOP WB76
931+54.71 - 937+47.53	ROUTE 76/86		492	DOUBLE CENTER LINE
936+60.42 - 937+00.42	ROUTE 76/86	60		CENTER TURN LANE
938+16.98 - 943+09.70	ROUTE 76/86		493	DOUBLE CENTER LINE
938+16.98 - 938+51.95	ROUTE 76/86	35		CENTER TURN LANE
SUBTOTAL G		2180	984	

HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS (F)

STA. TO STA.	LOCATION	6" SOLID WHITE (FT)	6" INT. WHITE (FT)	4" SOLID YELLOW (FT)	4" INT. YELLOW (FT)	12" SOLID WHITE (FT)	REMARKS
858+12.37 - 861+15.37	RTE 112			606			DOUBLE CENTERLINE
858+12.37 - 861+53.69	RTE 112	381					WB EOP
858+12.37 - 361+21.38	RTE 112	368					EB EOP
860+15.37 - 861+25.37	RTE 112	110					WB LT TURN LANE
861+12.84 - 861+35.22	RTE 112					78	PAINTED ISLAND
861+96.94 - 865+07.85	RTE DD	369					WB EOP
861+66.04 - 865+07.85	RTE DD	382					EB EOP
861+83.38 - 862+07.21	RTE DD					84	PAINTED ISLAND
861+94.85 - 863+04.85	RTE DD	110					EB LT TURN LANE
862+04.85 - 865+07.85	RTE DD			606			DOUBLE CENTERLINE
1594+04.00 - 1596+14.00	RTE 37	210					NB LT TURN LANE
1594+14.00 - 1597+14.00	RTE 37			600			RT DOUBLE CENTERLINE
1594+73.54 - 1701+66.40	RTE 37	10693					SB EOP
1594+90.83 - 1701+66.40	RTE 37	10676					NB EOP
1597+14.00 - 1605+83.00	RTE 37			869	217		SB LT TURN CENTERLINE
1597+14.00 - 1605+83.00	RTE 37			869	217		NB LT TURN CENTERLINE
1605+83.00 - 1608+53.00	RTE 37			540			RT DOUBLE CENTERLINE
1605+83.00 - 1608+53.00	RTE 37			540			LT DOUBLE CENTERLINE
1608+53.00 - 1628+30.00	RTE 37			3954			DOUBLE CENTERLINE
1628+30.00 - 1632+00.00	RTE 37			740			RT DOUBLE CENTERLINE
1628+30.00 - 1633+00.00	RTE 37			940			LT DOUBLE CENTERLINE
1632+00.00 - 1633+00.00	RTE 37	100					SB LT TURN LANE
1633+75.00 - 1634+75.00	RTE 37	100					NB LT TURN LANE
1633+75.00 - 1638+45.00	RTE 37			940			RT DOUBLE CENTERLINE
1634+75.00 - 1638+45.00	RTE 37			740			LT DOUBLE CENTERLINE
1638+45.00 - 1646+05.00	RTE 37			1520			DOUBLE CENTERLINE
1646+05.00 - 1648+75.00	RTE 37			540			RT DOUBLE CENTERLINE
1646+05.00 - 1648+75.00	RTE 37			540			LT DOUBLE CENTERLINE
1648+75.00 - 1652+70.00	RTE 37			395	99		SB LT TURN CENTERLINE
1648+75.00 - 1652+70.00	RTE 37			395	99		NB LT TURN CENTERLINE
1652+70.00 - 1654+70.00	RTE 37			400			LT DOUBLE CENTERLINE
1653+70.00 - 1654+70.00	RTE 37	100					SB LT TURN LANE
1655+70.00 - 1656+70.00	RTE 37	100					NB LT TURN LANE
1655+70.00 - 1660+40.00	RTE 37			940			RT DOUBLE CENTERLINE
1656+70.00 - 1660+40.00	RTE 37			740			LT DOUBLE CENTERLINE
1660+40.00 - 1666+50.00	RTE 37			1220			DOUBLE CENTERLINE
1666+50.00 - 1670+20.00	RTE 37			740			RT DOUBLE CENTERLINE
1666+50.00 - 1672+20.00	RTE 37			1140			LT DOUBLE CENTERLINE
1670+20.00 - 1673+30.00	RTE 37	310		620			SB LT TURN LANE
1674+10.00 - 1676+10.00	RTE 37	200		400			NB LT TURN LANE
1674+10.00 - 1679+80.00	RTE 37			1140			RT DOUBLE CENTERLINE
1676+10.00 - 1679+80.00	RTE 37			740			LT DOUBLE CENTERLINE
1679+80.00 - 1701+66.40	RTE 37			4373			DOUBLE CENTERLINE
SUBTOTAL G		2180	0	984	0	0	
SUBTOTAL F		24208	0	27787	632	162	
SUBTOTAL E		65267	0	56060	3956	0	
SUBTOTAL D		67936	0	53093	4076	683	
SUBTOTAL C		56000	2245	85235	882	401	
SUBTOTAL B		56270	2912	98673	384	531	
SUBTOTAL A		75118	3488	115500	4103	402	
TOTAL		346980	8645	437332	14033	2179	
USE		355,624		451,365		2,179	

SUMMARY OF QUANTITIES
SHEET 10 OF 16

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/19/2020
ROUTE 37 | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY BARRY
JOB NO. J7P3120
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

PREFORMED THERMOPLASTIC PAVEMENT MARKING (1)

STA. TO STA.	LOCATION	24" SOLID WHITE (FT)	LT/RT TURN ARROW (EA)	24" SOLID YELLOW (FT)	REMARKS
3+05.00	RTE 37		1		NB RT TURN LANE
7+00.00	RTE 37		2		CENTER TURN LANE
12+00.00	RTE 37		2		CENTER TURN LANE
17+00.00	RTE 37		2		CENTER TURN LANE
22+00.00	RTE 37		2		CENTER TURN LANE
27+00.00	RTE 37		2		CENTER TURN LANE
32+00.00	RTE 37		2		CENTER TURN LANE
37+00.00	RTE 37		2		CENTER TURN LANE
42+00.00	RTE 37		2		CENTER TURN LANE
47+00.00	RTE 37		2		CENTER TURN LANE
52+00.00	RTE 37		2		CENTER TURN LANE
57+00.00	RTE 37		2		CENTER TURN LANE
62+00.00	RTE 37		2		CENTER TURN LANE
67+00.00	RTE 37		2		CENTER TURN LANE
69+00.00 - 70+25.00	RTE 37		3		SB LT & RT. TURN LANE
70+10.00	RTE 37		1		SB RT. TURN LANE
20+33.00	FR2022	12			EB STOP BAR
20+50.00	FR2022	12			EB LT TURN STOP BAR
21+33.00	FR2022		1		CENTER TURN LANE
72+75.00 - 74+00.00	RTE 37		2		NB LT TURN LANE
76+50.00	RTE 37		2		CENTER TURN LANE
81+50.00	RTE 37		2		CENTER TURN LANE
86+50.00	RTE 37		2		CENTER TURN LANE
89+00.00 - 90+25.00	RTE 37		2		SB LT TURN LANE
158+31.70 - 164+81.70	RTE 37			133	CENTER HASH MARKS
165+38.00 - 166+63.00	RTE 37		2		SB LT TURN LANE
169+21.00 - 170+46.00	RTE 37		2		NB LT TURN LANE
170+97.50 - 173+97.50	RTE 37			45	CENTER HASH MARKS
262+30.50 - 265+00	RTE 37			84	CENTER HASH MARKS
259+82.50 - 260+72.50	RTE 37		2		SB LT TURN LANE
262+30.50 - 265+30.50	RTE 37			76	CENTER HASH MARKS
298+93.00 - 305+98.00	RTE 37			137	CENTER HASH MARKS
306+50.00 - 307+75.00	RTE 37		2		SB LT TURN LANE
309+24.25 - 312+24.25	RTE 37			71	CENTER HASH MARKS
322+18.60 - 325+18.60	RTE 37			66	CENTER HASH MARKS
325+70.00 - 326+95.00	RTE 37		2		SB LT TURN LANE
329+55.00 - 330+80.00	RTE 37		2		NB LT TURN LANE
331+28.50 - 334+28.50	RTE 37			66	CENTER HASH MARKS
363+33.60 - 366+33.60	RTE 37			66	CENTER HASH MARKS
366+85.00 - 368+10.00	RTE 37		2		SB LT TURN LANE
371+05.00 - 372+30.00	RTE 37		2		NB LT TURN LANE
372+83.50 - 375+83.50	RTE 37			66	CENTER HASH MARKS
379+58.60 - 389+08.60	RTE 37			184	CENTER HASH MARKS
446+44.50 - 449+99.50	RTE 37			78	CENTER HASH MARKS
502+71.50 - 510+21.50	RTE 37			150	CENTER HASH MARKS
512+13.00 - 513+38.00	RTE 37		2		NB LT TURN LANE
513+91.00 - 520+91.00	RTE 37			139	CENTER HASH MARKS
549+25.00 - 556+25.00	RTE 37			147	CENTER HASH MARKS
556+71.00 - 557+96.00	RTE 37		2		SB LT TURN LANE
560+10.20 - 567+10.20	RTE 37			149	CENTER HASH MARKS
601+68.20 - 608+18.20	RTE 37			130	CENTER HASH MARKS
608+70.00 - 609+95.00	RTE 37		2		SB LT TURN LANE
611+78.30 - 615+28.30	RTE 37			78	CENTER HASH MARKS
635+54.60 - 639+04.60	RTE 37			70	CENTER HASH MARKS
639+50.00 - 640+75.00	RTE 37		2		SB LT TURN LANE
641+54.75	RTE 37	12			SB LT TURN LANE
466+57.00	RTE W	22			EB TO SB STOP BAR
466+65.00	RTE W	12			EB STOP BAR
467+30.00	RTE W	12			WB STOP BAR
467+38.00	RTE W	22			WB TO NB STOP BAR
642+79.92	RTE 37	12			NB LT TURN LANE
643+50.00 - 644+75.00	RTE 37		2		NB LT TURN LANE
645+23.50 - 648+73.50	RTE 37			88	CENTER HASH MARKS
693+70.00 - 698+60.00	RTE 37			86	CENTER HASH MARKS
698+70.00 - 701+25.00	RTE 37		3		SB LT TURN LANE*
703+75.00 - 706+30.00	RTE 37		3		NB LT TURN LANE*
706+40.00 - 711+30.00	RTE 37			87	CENTER HASH MARKS
725+24.00 - 727+74.00	RTE 37			59	CENTER HASH MARKS
SUBTOTAL (1)		116	72	2274	

*CONTRAST MARKING WILL BE REQUIRED FOR THE CONCRETE OPTION OF OPTIONAL PAVEMENT AT NO DIRECT PAY.

PREFORMED THERMOPLASTIC PAVEMENT MARKING (2)

STA. TO STA.	LOCATION	24" SOLID WHITE (FT)	LT/RT TURN ARROW (EA)	24" SOLID YELLOW (FT)	REMARKS
729+35.00	RTE 37		1		NB LT TURN LANE
729+90.50 - 736+40.50	RTE 37			132	CENTER HASH MARKS
766+72.60 - 772+22.60	RTE 37			95	CENTER HASH MARKS
772+71.25	RTE 37		1		SB LT TURN LANE
774+89.30 - 777+89.30	RTE 37			81	CENTER HASH MARKS
810+24.50 - 819+28.50	RTE 37			181	CENTER HASH MARKS
829+03.60 - 838+03.60	RTE 37			192	CENTER HASH MARKS
886+68.60 - 890+18.60	RTE 37			75	CENTER HASH MARKS
890+70.00 - 891+70.00	RTE 37		2		SB LT TURN LANE
894+56.00 - 895+56.00	RTE 37		2		NB LT TURN LANE
896+04.90 - 899+04.90	RTE 37			61	CENTER HASH MARKS
908+76.00 - 911+76.00	RTE 37			65	CENTER HASH MARKS
912+27.50	RTE 37		2		SB LT & RT TURN LANES
913+27.50	RTE 37		2		SB LT & RT TURN LANES
914+10.00	RTE 37	12			SB LT TURN LANE
914+20.00	RTE 37	12			SB THROUGH LANE
19+00.00	FR2180		1		EB LT TURN LANE
19+43.80	FR2180	12			EB LT TURN LANE
19+54.00	FR2180	12			EB THROUGH LANE
20+56.20	EXETER RD	12			WB THROUGH LANE
20+41.20	EXETER RD	12			WB LT TURN LANE
21+00.00	EXETER RD		1		WB LT TURN LANE
915+29.50	RTE 37	12			NB THROUGH LANE
915+42.50	RTE 37	12			NB LT TURN LANE
916+42.50 - 917+42.50	RTE 37		2		NB LT TURN LANE
917+91.00 - 920+91.00	RTE 37			66	CENTER HASH MARKS
930+83.60 - 933+33.60	RTE 37			62	CENTER HASH MARKS
935+00.00	RTE 37		2		CENTER TURN LANE
937+00.00	RTE 37		2		CENTER TURN LANE
938+50.00	RTE 37		1		SB LT TURN LANE
939+56.00	RTE 37	12			SB LT TURN LANE
939+67.12	RTE 37	12			SB THROUGH LANE
936+76.10	RTE 76/86	12			EB LT TURN LANE
937+00.00	RTE 76/86	12			EB THROUGH LANE
937+74.20	RTE 76/86	12			WB THROUGH LANE
937+84.00	RTE 76/86	12			WB LT TURN LANE
940+94.50	RTE 37	12			NB THROUGH LANE
941+12.80	RTE 37	12			NB LT TURN LANE
942+15.00	RTE 37		1		NB LT TURN LANE
944+75.00	RTE 37		2		CENTER TURN LANE
946+50.00	RTE 37		2		CENTER TURN LANE
948+27.10 - 950+77.10	RTE 37			62	CENTER HASH MARKS
1273+28.75 - 1275+28.75	RTE 37			47	CENTER HASH MARKS
1276+85.00	RTE 37		2		CENTER TURN LANE
1281+85.00	RTE 37		2		CENTER TURN LANE
1286+85.00	RTE 37		2		CENTER TURN LANE
463+62.00	RTE 90	12			STOP BAR
1289+42.00	RTE 37		1		NB LT TURN LANE
1291+15.00	RTE 37		2		CENTER TURN LANE
1293+15.00	RTE 37		2		CENTER TURN LANE
1294+83.00 - 1296+83.00	RTE 37			47	CENTER HASH MARKS
1573+51.40 - 1575+51.40	RTE 37			47	CENTER HASH MARKS
1576+50.00	RTE 37		2		CENTER TURN LANE
1580+75.00	RTE 37		2		CENTER TURN LANE
1585+75.00	RTE 37		2		CENTER TURN LANE
1589+00.00	RTE 37		2		CENTER TURN LANE
1591+25.00 - 1592+53.00	RTE 37		2		SB LT TURN LANE
850+15.37	RTE 112		1		LT TURN LANE
861+15.37	RTE 112	11			WB LT TURN LANE
861+25.37	RTE 112	11			WB THROUGH LANE
861+94.85	RTE DD	11			EB THROUGH LANE
862+04.85	RTE DD	11			EB LT TURN LANE
863+04.85	RTE DD		1		LT TURN LANE
1594+28.00	RTE 37	12			SB LT TURN LANE
SUBTOTAL (2)		260	47	1213	

SUMMARY OF QUANTITIES
SHEET 11 OF 16

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/19/2020
ROUTE 37 | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY BARRY
JOB NO. J7P3120
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.

PREFORMED THERMOPLASTIC PAVEMENT MARKING (3)

STA. TO STA.	LOCATION	24" SOLID WHITE (FT)	LT/RT TURN ARROW (EA)	24" SOLID YELLOW (FT)	REMARKS
1594+14.00	RTE 37	12			NB LT TURN LANE
1594+89.00 - 1596+14.00	RTE 37		2		NB LT TURN LANE
1598+00.00	RTE 37		2		CENTER TURN LANE
1601+25.00	RTE 37		2		CENTER TURN LANE
1604+75.00	RTE 37		2		CENTER TURN LANE
1605+88.75 - 1607+88.75	RTE 37			47	CENTER HASH MARKS
1629+23.60 - 1631+73.60	RTE 37			54	CENTER HASH MARKS
1632+00.00	RTE 37		1		SB LT TURN LANE
1633+00.00	RTE 37	12			SB LT TURN LANE
1633+75.00	RTE 37	12			NB LT TURN LANE
1634+75.00	RTE 37		1		NB LT TURN LANE
1635+03.50 - 1637+53.50	RTE 37			54	CENTER HASH MARKS
1646+66.20 - 1648+66.20	RTE 37			47	CENTER HASH MARKS
1653+70.00	RTE 37		1		SB LT TURN LANE
1654+70.00	RTE 37	12			SB LT TURN LANE
1655+70.00	RTE 37	12			NB LT TURN LANE
1656+70.00	RTE 37		1		NB LT TURN LANE
1657+98.70 - 1659+48.70	RTE 37			54	CENTER HASH MARKS
1667+18.80 - 1669+68.80	RTE 37			70	CENTER HASH MARKS
1670+20.00 - 1671+45.00	RTE 37		2		SB LT TURN LANE
1672+20.00	RTE 37	12			SB LT TURN LANE
1674+10.00	RTE 37	12			NB LT TURN LANE
1674+85.00 - 1676+10.00	RTE 37		2		NB LT TURN LANE
1676+38.70 - 1678+88.70	RTE 37			55	CENTER HASH MARKS
SUBTOTAL (3)		84	16	381	
SUBTOTAL (2)		260	47	1213	
SUBTOTAL (1)		116	72	2274	
TOTAL		460	135	3868	

VOLUME GRADING

STA. TO STA.	LOCATION	UNCLASSIFIED EXCAVATION (CY)	COMPACTING EMBANKMENT (CY)	EMBANKMENT IN PLACE (CY)	REMARKS
1405+83 - 1410+78.69	CULVERT @ 1408+15.11	71	481	421	
1442+50 - 1430+00	CULVERT @ 1428+38.83	1688	118	0	
1443+00 - 1447+00	CULVERT @ 1445+68.41	216	755	572	
1445+68.41 - -	CULVERT @ 1445+68.41	145	-	-	TAILWATER CHANNEL EXCAVATED TO DRAIN
18+91.00 - 20+17.07	WEST FR2140	100	143	0	USE EXCESS FROM RTE 37 EXCAVATION
20+64 - 21+75	EAST FR2140	81	108	0	USE EXCESS FROM RTE 37 EXCAVATION
693+70.00 - 711+30.00	RTE 37 @ FR2140	2707	363	0	USE EXCESS IN FR2140
	TOTAL	5008	1968	993	
	USE	5,008	1,968	993	

SHAPING SLOPES, CLASS III

STA. TO STA.	LOCATION	STATIONS (100')	REMARKS
141+12.00 - 143+88.40	RTE 37 RT	2.8	
141+87.20 - 144+73.70	RTE 37 LT	2.9	
170+71.00 - 177+21.00	RTE 37 LT	6.5	
209+87.50 - 221+75.00	RTE 37 RT	11.9	
211+77.50 - 220+21.00	RTE 37 LT	9.3	AROUND TO FR2050
482+48.67 - 1+20.47	RTE 37 LT	5.6	AROUND TO FR1085
548+58.84 - 549+08.84	RTE 37 RT	0.5	
677+46.49 - 679+96.49	RTE 37 RT	1.9	
678+19.62 - 680+69.62	RTE 37 LT	1.9	
790+21.22 - 796+58.72	RTE 37 RT	6.4	
790+96.22 - 798+08.72	RTE 37 LT	7.1	
839+38.50 - 846+38.50	RTE 37 RT	7.0	
841+58.00 - 849+08.00	RTE 37 LT	7.5	
863+37.00 - 869+87.00	RTE 37 RT	6.5	
865+13.50 - 872+63.50	RTE 37 LT	7.5	
881+12.36 - FR2172	RTE 37 RT	12.8	FROM RTE 37 ONTO FR2172
885+58.27 - FR2172	RTE 37 LT	9.0	FROM RTE 37 ONTO FR2172
FR2172 - 902+42.00	RTE 37 RT	10.1	FROM FR2172 ONTO RTE 37
FR2172 - 902+31.00	RTE 37 LT	10.5	FROM FR2172 ONTO RTE 37
945+54.00 - 952+37.50	RTE 37 LT	7.5	
766+97.65 - 767+47.65	RTE 37 LT	0.5	
767+37.55 - 769+87.55	RTE 37 RT	2.5	
768+86.50 - 769+36.50	RTE 37 LT	0.5	
1406+05.00 - 1409+58.50	RTE 37 RT	3.5	
1406+44.50 - 1410+24.50	RTE 37 LT	3.8	
1443+53.00 - 1447+43.00	RTE 37 RT	3.9	
1443+86.00 - 1447+87.00	RTE 37 LT	4.0	
	TOTAL	153.7	
	USE	154	

GUARDRAIL

STA. TO STA.	LOCATION	TOTAL LENGTH (FT)	MGS GUARDRAIL (FT)	TYPE A END TERMINAL (EA)	MASH CRASHWORTHY END TERMINAL (EA)	TYPE A GUARDRAIL (FT)	MGS HEIGHT & BLOCK TRANS. SECT. (EA)	MGS VERTICAL CONCR. BARRIER TRANSITION (FT)	END ANCHOR (EA)	REMARKS
141+12.00 - 143+88.40	RTE 37 RT	275	175.0		2					
141+87.20 - 144+73.70	RTE 37 LT	287.5	187.5		2					
172+71.00 - 177+21.00	RTE 37 LT	450	350.0		2					
209+87.50 - 221+75.00	RTE 37 RT	1187.5	1087.5		2					
211+77.50 - 220+21.00	RTE 37 LT	962.5	762.5		2	50	2			AROUND TO FR2050
482+48.67 - 1+20.47	RTE 37 LT	665.5	462.5	1	1	75	1			AROUND TO FR1085
548+58.84 - 549+08.84	RTE 37 RT	50			1				1	REPLACE EXIST. END TERM.
677+46.49 - 679+96.49	RTE 37 RT	262.5	87.5		2			2		U.I.P. THRIE BEAMS
678+19.62 - 680+69.62	RTE 37 LT	262.5	87.5		2			2		U.I.P. THRIE BEAMS
790+21.22 - 796+58.72	RTE 37 RT	637.5	537.5		2					
790+96.22 - 798+08.72	RTE 37 LT	712.5	612.5		2					
839+38.50 - 846+38.50	RTE 37 RT	700	600.0		2					
841+58.00 - 849+08.00	RTE 37 LT	750	650.0		2					
863+37.00 - 869+87.00	RTE 37 RT	650	550.0		2					
865+13.50 - 872+63.50	RTE 37 LT	750	650.0		2					
881+12.36 - FR2172	RTE 37 RT	1337.5	1150.0	1	1	62.5	1			AROUND TO FR2172 W
885+58.27 - FR2172	RTE 37 LT	975	800.0		2	50	2			AROUND TO FR2172 E
FR2172 - 902+42.00	RTE 37 RT	1087.5	900.0	1	1	62.5	1			FROM FR2172 W
FR2172 - 902+31.00	RTE 37 LT	1125	950.0		2	50	2			FROM FR2172 E
945+54.00 - 952+37.50	RTE 37 LT	825	650.0		2	50	1			FROM EAST AVENUE
766+97.65 - 767+47.65	RTE 37 LT	50			1					REPLACE EXIST. END TERM.
767+37.55 - 769+87.55	RTE 37 RT	250	150.0		2					
768+86.50 - 769+36.50	RTE 37 LT	50			1					REPLACE EXIST. END TERM.
1406+05.00 - 1409+58.50	RTE 37 RT	350	250.0		2					
1406+44.50 - 1410+24.50	RTE 37 LT	375	275.0		2					
1443+53.00 - 1446+58	RTE 37 RT	305	205.0		2					
1443+86.00 - 1447+87.00	RTE 37 LT	400	300		2					
	TOTAL	12430.0	3	48	400	10	4	1		
	USE	12,430	3	48	400	10	4	1		

SUMMARY OF QUANTITIES
SHEET 12 OF 16

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/19/2020
ROUTE: 37 | STATE: MO
DISTRICT: SW | SHEET NO.: 3
COUNTY: BARRY
JOB NO.: J7P3120
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE | REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

POLES, FOUNDATIONS, & APPURTENCE FOR LIGHT POLES

STA.	ROUTE	POLE NO.	LIGHTING CIRCUIT	LOCATION	45′ M.H. TYPE AT LIGHT POLE (EA)	POLE DESIGN NO.	BRACKET ARM 6′ (EA)	BRACKET ARM 12′ (EA)	BRACKET ARM 15′ (EA)	LUMINARE LED-B (EA)	CABLE #10 AWG. 1 COND. POLE & BRACKET (FT)	POLE FOUNDATION 45′ M.H. (EA)	REMARKS
641+25.00	RTE 37	4	1	44.4′ RT	1	2			1	1	120	1	
643+25.00	RTE 37	5	2	36.8′ LT	1	2			1	1	120	1	
465+97.60	RTE W	6	2	30.7′ RT	1	2	1			1	102	1	
467+97.60	RTE W	3	1	23.6′ LT	1	2	1			1	102	1	
				TOTAL	4		2	0	2	4	444	4	
				USE	4		2	0	2	4	450	4	

TEMPORARY EROSION CONTROL

STA.	TO	STA	LOCATION	ALTERNATE DITCH CHECK (FT)	SILT FENCE (LF)	SEDIMENT REMOVAL (CY)	REMARKS
170+50.00	–	177+50.00	RTE 37 LT		750	7	
695+00.00			RTE 37 LT	12		1	
695+00.00	–	699+32.00	RTE 37 RT		420	4	
697+50.00	–	702+48.50	RTE 37 LT		570	6	TO FR2140
699+32.00			RTE 37 RT	12		1	
701+00.00			RTE 37 RT	12		1	
702+68.75	–	710+00.00	RTE 37 LT		806	8	FROM FR2140
702+90.00	–	707+60.00	RTE 37 RT	36		3	3 CHECKS @ 235′ SPACING
1407+00.00			RTE 37 LT	12		1	
1407+00.00			RTE 37 RT	12		1	
1407+00.00	–	1408+20.50	RTE 37 RT		160	2	
1407+00.00	–	1409+00.00	RTE 37 LT		247	2	
1407+50.00			RTE 37 RT	24		2	
1408+03.00			RTE 37 RT	12		1	
1408+50.00	–	1409+00.00	RTE 37 RT	36		3	3 CHECKS @ 25′ SPACING
1409+00.00			RTE 37 LT	12		1	
1410+00.00			RTE 37 RT	12		1	
1425+67.00			RTE 37 RT	12		1	
1427+10.00	–	1428+30.00	RTE 37 LT		120	1.2	
1428+15.00			RTE 37 RT	24		2	
1428+21.00			RTE 37 LT	12		1	
1428+47.00			RTE 37 LT	12		1	
1428+48.00			RTE 37 RT	24		2	
1428+50.00	–	1430+00.00	RTE 37 LT		150	1.5	
1445+00.00	–	1445+42.00	RTE 37 LT	84		7	7 CHECKS @ 7′ SPACING
1445+00.00	–	1445+50.00	RTE 37 RT	36		3	3 CHECKS @ 25′ SPACING
1445+00.00	–	1445+42.00	RTE 37 LT		42	0.5	
1445+42.00	–	1445+71.00	RTE 37 LT		94	1	AROUND CULVERT
1445+68.00			RTE 37 RT	12		1	
1445+65.00	–	1446+50.00	RTE 37 LT	96		8	8 CHECKS @ 12′ SPACING
1445+66.00	–	1445+81.00	RTE 37 RT		44	0.5	AROUND CULVERT
1444+30.00			RTE 37 RT	12		1	
1446+00.00	–	1446+50.00	RTE 37 RT	48		4	4 CHECKS @ 16.6′ SPACING
			TOTAL	564	3403	81	

BASE MOUNTED LIGHTING CONTROLLER

STA.	ROUTE	LOCATION	BASE MOUNTED CONTROLLER 120/240 VOLT (EA)	REMARKS
469+00.00	RTE W	17′ RT	1	FLASHER CONTROLLER
468+94.00	RTE W	17′ RT	1	LIGHTING CONTROLLER
		TOTAL	2	

POWER SUPPLY

STA.	ROUTE	LOCATION	POWER SUPPLY ASSEMBLY TYPE 1 (EA)	SERVICE POLE 30′ CLASS 4 (EA)	REMARKS
469+00.00	RTE W	32′ RT.	1	1	
		TOTAL	1	1	

POWER CABLE 1 CONDUCTOR

STA.	ROUTE	LOCATION	CTR. TO CTR.	#2 AWG (FT)	REMARKS
469+00.00	RTE W	17′ RT.	15	116	PWR SUPPLY – FLASHER CONTROL
468+94.00	RTE W	17′ RT	16	118	PWR SUPPLY – LIGHTING CONTROL
			TOTAL	234	
			USE	240	

WIRE CABLE

STATION	LOCATION	CIRCUIT	PULL BOX TO LIGHT POLE	DISTANCE (FT)	2 CONDUCTOR CABLE #12 AWG (FT)	CABLE, LOOP DETECTOR, LEAD-IN (FT.)	REMARKS
641+05.00	RTE 37 RT	1	LIGHT CONT. – LIGHT 4	382	419		
468+60.00	RTE W LT	1	PB 2 – LIGHT 3	32	40		
466+21.00	RTE W RT	2	LIGHT CONT. – LIGHT 6	513	550		
643+20.00	RTE 37 LT	2	PB 7 – LIGHT 5	6	14		
467+73.60	RTE W LT	4	CONTROLLER TO PB 2	183		200	FOR DETECTOR 1
466+21.00	RTE W RT	6	CONTROLLER TO PB 10	484		519	FOR DETECTOR 2
467+73.60	RTE W LT	7	CONTROLLER TO PB 2	183		200	FOR DETECTOR 3
466+40	RTE W RT	8	CONTROLLER TO PB 19	459		488	FOR DETECTOR 4
641+05.00	RTE 37 RT	3	CONTROLLER TO SIGN 1	971	1020		
643+95.00	RTE 37 LT	5	CONTROLLER TO SIGN 2	895	938		
				TOTAL	2981	1407	
				USE	2990	1410	

SUMMARY OF QUANTITIES
SHEET 13 OF 16

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/19/2020
ROUTE 37 | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY BARRY
JOB NO. J7P3120
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.

RIGID CONDUIT

STA.	ROUTE	LOCATION	CIRCUIT NO.	4" CONDUIT PUSHED (FT)	3" CONDUIT TRENCHED (FT)	2" CONDUIT TRENCHED (FT)	REMARKS
466+33	RTE W	63' RT.	8			125	PB 18 TO PB 19
469+00.00	RTE W	32' RT.			23		PWR SUPPLY TO FLASHER CONTROLLER
469+00.00	RTE W	32' RT.			24		PWR SUPPLY TO LIGHTING CONTROLLER
468+50.00	RTE W	RT.	1 & 2		127		LIGHTING CONTROLLER TO PB 1
468+50.00	RTE W	RT.			129		FLASHER CONTROLLER TO PB 13
467+77.00	RTE W	ACROSS	3 & 4	55			PB 13 TO PB 14
467+73.00	RTE W	ACROSS	1	63			PB 1 TO PB 2
467+77.60	RTE W	LT.	4			4	PB 14 TO EOP
468+90.00	RTE W	LT.	1			33	PB 2 TO LIGHT 3
635+05.00	RTE 37	RT.	3			9	PB 6 TO SIGN 1
636+50.00	RTE 37	RT.	3			298	PB 6 TO PB 5
639+50.00	RTE 37	RT.	3			298	PB 5 TO PB 16
641+01.00	RTE 37	ACROSS	3	65			PB 15 TO PB 16
641+05.00	RTE 37	ACROSS	1	66			PB 3 TO PB 4
641+50.00	RTE 37	LT.	1			101	PB 2 TO PB 3
641+50.00	RTE 37	LT.	3			113	PB 14 TO PB 15
643+00.00	RTE 37	LT.	2			78	PB 1 TO PB 7
643+00.00	RTE 37	LT.	5 & 6			157	PB 13 TO PB 17
643+00.00	RTE 37	RT.	6			149	PB 18 TO PB 10
466+21.00	RTE W	RT.	6			4	PB 10 TO EOP
643+00.00	RTE 37	RT.	2			181	PB 9 TO LIGHT 6
643+22.00	RTE 37	LT.	2			7	PB 7 TO LIGHT 5
643+66.00	RTE 37	LT.	2			80	PB 7 TO PB 8
643+91.00	RTE 37	ACROSS	6	66			PB 17 TO PB 18
643+95.00	RTE 37	ACROSS	2	46			PB 8 TO PB 9
645+41.00	RTE 37	LT.	5			298	PB 17 TO PB 12
646+91.00	RTE 37	LT.	5			298	PB 11 TO PB 12
649+95.00	RTE 37	LT.	5			16	PB 12 TO SIGN 2
			TOTAL	361	303	2249	
			USE	361	303	2249	

PREFORMED PULL BOX TYPE II, TYPE B

STA.	ROUTE	PULL BOX NO.	LOCATION	DRAIN TYPE	CLASS	QTY. (EA)	REMARKS
467+74.50	RTE W	1	32.5' RT	II	2	1	
467+74.50	RTE W	2	32.0' LT	II	2	1	
467+77.50	RTE W	13	27.5' RT	II	2	1	
467+77.50	RTE W	14	29.5' LT	II	2	1	
641+01.00	RTE 37	15	29.0' LT	II	2	1	
641+01.00	RTE 37	16	39.2' RT	II	2	1	
641+05.00	RTE 37	3	29.0' LT	II	2	1	
641+05.00	RTE 37	4	39.2' RT	II	2	1	
638+05.00	RTE 37	5	32.7' RT	II	2	1	
635+05.00	RTE 37	6	22.2' RT	II	2	1	
643+20.00	RTE 37	7	33.0' LT	II	2	1	
643+91.00	RTE 37	17	24.0' LT	II	2	1	
643+91.00	RTE 37	18	24.0' RT	II	2	1	
643+95.00	RTE 37	8	24.0' LT	II	2	1	
643+95.00	RTE 37	9	24.0' RT	II	2	1	
466+21.00	RTE W	10	34.1' RT	II	2	1	
466+33	RTE W	19	63' RT	II	2	1	
646+91.00	RTE 37	11	24.0' LT	II	2	1	
649+91.00	RTE 37	12	22.2' LT	II	2	1	
					TOTAL	19	

SIGN POSTS & BASES

STA.	ROUTE	LOCATION	SIGN NO.	SIGN SIZE (FT)	BACKING BARS 2"x3/8" BARS @ 2.55 LBS. PER LIN. FT. NO. (EA)	BACKING BARS LENGTH (IN)	BACKING BARS TOTAL (LF)	BACKING BARS TOTAL (LBS)	TOP MOUNT POST 15 FT. (EA)	TYPE C BASE (CY)	REMARKS
635+00.00	RTE 37	43.52' RT	1	ASSEM.	2	32	5.3	13.6	1	0.44	FLASHER SIGN ASSEMBLY
650+00.00	RTE 37	33.25' LT	2	ASSEM.	2	32	5.3	13.6	1	0.44	FLASHER SIGN ASSEMBLY
							TOTAL	27.2	2	0.88	
							USE	30	2	0.9	

FLASHERS

STA.	ROUTE	LOCATION	SIGN NO.	CIRCUIT NO.	12" LENSE CONVENTIONAL YELLOW	VISORS 12" LENSE	BACKPLATE 1 LENSE	BRACKET TYPE I	CABLE, 16 AWG 3 CONDUCTOR (LF)	OPEN FACE SECTION YELLOW LED SIDE MOUNT	REMARKS
635+00.00	RTE 37	43.52' RT	1	1	2	2	2	2	30	2	FLASHERS FACING NORTH
650+00.00	RTE 37	33.25' LT	2	2	2	2	2	2	31	2	FLASHERS FACING SOUTH
								TOTAL	61	4	
								USE	70	4	

1 ITEM NO. 9031210

CABLE, LOOP DETECTOR, IN DUCT

STA.	ROUTE	LOCATION	CABLE (FT)	REMARKS
466+47.00	RTE W	RT	315	EB THROUGH LANE
467+46.00	RTE W	LT	315	WB THROUGH LANE
466+42.00	RTE W	LT	315	WB RT. TURN LANE
466+53	RTE W	RT	315	EB RT. TURN LANE
		TOTAL	1260	

SUMMARY OF QUANTITIES
SHEET 14 OF 16

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/19/2020
ROUTE 37 | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY BARRY
JOB NO. J7P3120
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

ROCK LINING

STA.	LOCATION	ROCK LINING (CY)	REMARKS
1408+15.70	RTE 37 LT	22.8	22'L x 14'W x 2' DEEP
1428+25.00	RTE 37 RT	46.8	39.5'L x 16W x 2' DEEP
1428+30.00	RTE 37 LT	19.3	26'L x 10'W x 2' DEEP
1445+68.44	RTE 37 LT	118.2	38'L x 28'W x 3' DEEP
	TOTAL	207.1	
	USE	207	

PAVED DITCH

STA.	LOCATION	PAVED DITCH (SY)	REMARKS
1408+15.11	RTE. 37 RT	1.6	7'L x 2'W @ INLET
1445+68.41	RTE. 37 RT	11.1	10'L x 10'W @ INLET
	TOTAL	12.7	
	USE	12.7	

CULVERTS

STA.	LOCATION	CLASS 4 EXCAVATION LT. (CY)	CLASS 4 EXCAVATION RT. (CY)	CLASS B-1 CONCRETE (CY)	REINFORCING STEEL (LBS)	4" DIA PERFORATED SCH. 80 PVC (FT)	TYPE 5 AGGR. LUMP SUM	MODIFIED RODENT SCREENS (EA.)	REMARKS
1408+15.11	RTE. 37	16.6	21.7	17.4	2108	–	–	–	
1428+38.83	RTE. 37	–	7.2	2.7	490	–	–	–	HEADWALL FOR PIPE RUNNER SAFETY END TREATMENT
1445+68.41	RTE. 37	54.9	33.5	46.3	5567	144	1	4	
	SUBTOTAL	71.5	62.4	66.4	8165	144	1	4	
	TOTAL/USE	134		66.4	8,170	144	1	4	

PIPES, END SECTIONS, COLLARS

STA.	LOCATION	CLASS 3 EXCAVATION (CY)	24" GROUP B PIPE (FT)	24" SAFETY END SECTION (EA)	24" x 38" H.E.R.C.P. PIPE (FT)	24" x 38" H.E.R.C.P. TAPERED END SECTION (EA)	PIPE COLLAR TYPE A (EA)	PIPE RUNNER SAFETY END SECTION (EA)	REMARKS
700+70.00	RTE 37 RT		50.0	2					EXCAVATION CARRIED THU ROADWAY GRADING
19+83.88	FR2140 W		65.0	2					EXCAVATION CARRIED THU ROADWAY GRADING
1428+38.83	RTE 37 LT & RT	7.5			4.0	1.0	1.0	1.0	EXTEND EXISTING PIPE
	SUBTOTAL	7.5	115.0	4	4.0	1.0	1.0	1.0	
	TOTAL/USE	8	115	4	4	1	1	1	

SEEDING - COOL SEASON MIXTURES

STA.	TO	STA.	LOCATION	SEEDING (ACRES)	REMARKS
171+71.00	–	177+21.00	RTE 37 LT	0.5	FLATTENING SLOPE S/O RTE. BB
694+00	–	710+00	RTE 37	2.0	
18+91.00	–	20+17.07	FR2140	0.2	
20+64	–	21+75	FR2140	0.2	
1405+83	–	1410+78.69	RTE 37	0.7	
1422+50.00	–	1430+00.00	RTE 37	2.0	
1443+00	–	1448+50	RTE 37	0.9	
1445+68.41	–	–	RTE 37	0.02	TAILWATER CHANNEL
–	–	–	–	–	SHAPING SLOPES AREAS, EST. 10' BEHIND GUARDRAIL
VARIOUS	–	VARIOUS	RTE 37	3.4	
			TOTAL	9.9	
			USE	9.9	

TEMPORARY SEEDING & MULCH

LOCATION	SEEDING (ACRES)	REMARKS
RTE 37 & FR 2140	2.0	
TOTAL	2.0	
USE	2.0	

SUMMARY OF QUANTITIES
SHEET 15 OF 16

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/19/2020
ROUTE: 37 | STATE: MO
DISTRICT: SW | SHEET NO.: 3
COUNTY: BARRY
JOB NO.: J7P3120
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.

EFFECTIVE: 10-01-2019

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
WARNING SIGNS								
W01-1L	48X48	16.00						TURN (SYMBOL LEFT ARROW)
W01-1R	48X48	16.00						TURN (SYMBOL RIGHT ARROW)
W01-2L	48X48	16.00						CURVE (SYMBOL LEFT ARROW)
W01-2R	48X48	16.00						CURVE (SYMBOL RIGHT ARROW)
W01-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT ARROW)
W01-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
W01-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
W01-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
W01-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
W01-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
W01-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
W01-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
W01-8	18X24	3.00						CHEVRON (SYMBOL)
W01-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
W03-1	48X48	16.00						STOP AHEAD (SYMBOL)
W03-2	48X48	16.00						YIELD AHEAD (SYMBOL)
W03-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
W03-4	48X48	16.00	4	64.00			11	BE PREPARED TO STOP
W03-5	48X48	16.00						SPEED LIMIT AHEAD
W04-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
W04-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
W04-1aL	48X48	16.00						MERGE (ARROW SYMBOL)
W04-1aR	48X48	16.00						MERGE (ARROW SYMBOL)
W05-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS
W05-3	48X48	16.00						ONE LANE BRIDGE
W05-5	48X48	16.00	4	64.00			34	NARROW LANES
W06-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
W06-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
W06-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
W07-3a	30X24	5.00	4	20.00			44A	NEXT XX MILES (PLAQUE)
W08-1	48X48	16.00						BUMP
W08-2	48X48	16.00						DIP
W08-3	48X48	16.00						PAVEMENT ENDS
W08-4	48X48	16.00						SOFT SHOULDER
W08-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
W08-6	48X48	16.00						TRUCK CROSSING
W08-6c	48X48	16.00						TRUCK ENTRANCE
W08-7	36X36	9.00						LOOSE GRAVEL
W08-7a	36X36	9.00						FRESH OIL/LOOSE GRAVEL
W08-9	48X48	16.00						LOW SHOULDER
W08-11	48X48	16.00	6	96.00			36	UNEVEN LANES
W08-12	48X48	16.00	32	512.00			35	NO CENTER LINE
W08-15	48X48	16.00						GROOVED PAVEMENT
W08-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
W08-17	48X48	16.00	10	160.00			22	SHOULDER DROP-OFF (SYMBOL)
W08-17P	30X24	5.00	10	50.00			23	SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
W012-1	24X24	4.00						DOUBLE DOWN ARROW (SYMBOL)
W012-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
W012-2X	24X18	3.00						LOW CLEARANCE (PLAQUE)
W012-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
W012-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
W012-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
W013-1	30X30	6.25						ADVISORY SPEED (PLAQUE)
W016-2	30X24	5.00						XXX FEET (PLAQUE)
W016-3	30X24	5.00						X MILE (PLAQUE)
W020-1	48X48	16.00	64	1024.00			2	ROAD/BRIDGE/RAMP WORK AHEAD
W020-2	48X48	16.00						DETOUR AHEAD
W020-3	48X48	16.00						ROAD CLOSED AHEAD
W020-4	48X48	16.00	4	64.00			7	ONE LANE ROAD AHEAD
W020-5	48X48	16.00	4	64.00			5	RIGHT/CENTER/LEFT LANE CLOSED AHEAD
W020-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
W020-6a	48X48	16.00	4	64.00			6	RIGHT/CENTER/LEFT LANE CLOSED
W020-7a	48X48	16.00	8	128.00			8	FLAGGER (SYMBOL) WITH FLAGS
W021-2	36X36	9.00						FRESH OIL
W021-5	48X48	16.00	4	64.00			21	SHOULDER WORK AHEAD
W022-1	48X48	16.00						BLASTING ZONE AHEAD
W022-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
W022-3	42X36	10.50						END BLASTING ZONE
G022-1	21X15	2.19						WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00						GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
G020-1	60X24	10.00	2	20.00			1	ROAD WORK NEXT XX MILES
G020-2	48X24	8.00	2	16.00			26	END ROAD WORK
G020-4	36X18	4.50	1	4.50			53	PILOT CAR FOLLOW ME
G020-4a	42X30	8.75	6	52.50			58	PILOT CAR IN USE WAIT & FOLLOW
G020-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW
G020-5aP	36X24	6.00	6	36.00			54	WORK ZONE (PLAQUE)
M04-8a	24X18	3.00						END DETOUR
M04-9L	48X36	12.00						DETOUR (LEFT ARROW)
M04-9R	48X36	12.00						DETOUR (RIGHT ARROW)
M04-9P	48X12	4.00						STREET NAME (PLAQUE)
M04-10L	48X18	6.00						DETOUR (ARROW LEFT)
M04-10R	48X18	6.00						DETOUR (ARROW RIGHT)
REGULATORY SIGNS								
R1-1	48X48	13.25						STOP
R1-2	48TRI.	6.93						YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00	12	144.00			4.25	SPEED LIMIT XX
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00						SIDEWALK CLOSED
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00						STOP HERE ON RED (45° ARROW)
R11-2	48X30	10.00						ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50						ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00						FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00						POINT OF PRESENCE
CONST-5	96X48	32.00	2	64.00				POINT OF PRESENCE
CONST-7	48X24	8.00						RATE OUR WORK ZONE
CONST-7	72X36	18.00	2	36.00			56	RATE OUR WORK ZONE
CONST-8	48X36	12.00	2	24.00			59	WORK ZONE NO PHONE ZONE

616-10.05 CONSTRUCTION SIGNS	TOTAL
	2771

616-10.10 RELOCATED SIGNS	TOTAL
	0

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6123000A	2	TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)
6161007		SPEED LIMIT AND STROBE LIGHT ASSEMBLY
6161008	2	ADVANCED WARNING RAIL SYSTEM
6161009	8	FLAG ASSEMBLY
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161024		CHANNELIZER (TRIM LINE) WITH LIGHT
6161025	730	CHANNELIZER (TRIM LINE)
6161030	4	TYPE III MOVEABLE BARRICADE
6161031		TYPE III MOVEABLE BARRICADE WITH LIGHTS
6161033		DIRECTION INDICATOR BARRICADE
6161034		DIRECTION INDICATOR BARRICADE, WITH LIGHT
6161040	2	FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161052		WARNING LIGHT, TYPE B
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A		CHANGEABLE MESSAGE SIGN W/O COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6161099	4	CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
6162004	4	TEMPORARY SHORT-TERM RUMBLE STRIPS
6173600D		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED
6173602B		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED
6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

STATE OF MISSOURI
KRISTI BACHMAN
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DATE PREPARED: 3/17/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	3

COUNTY: BARRY
JOB NO.: J7P3120
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

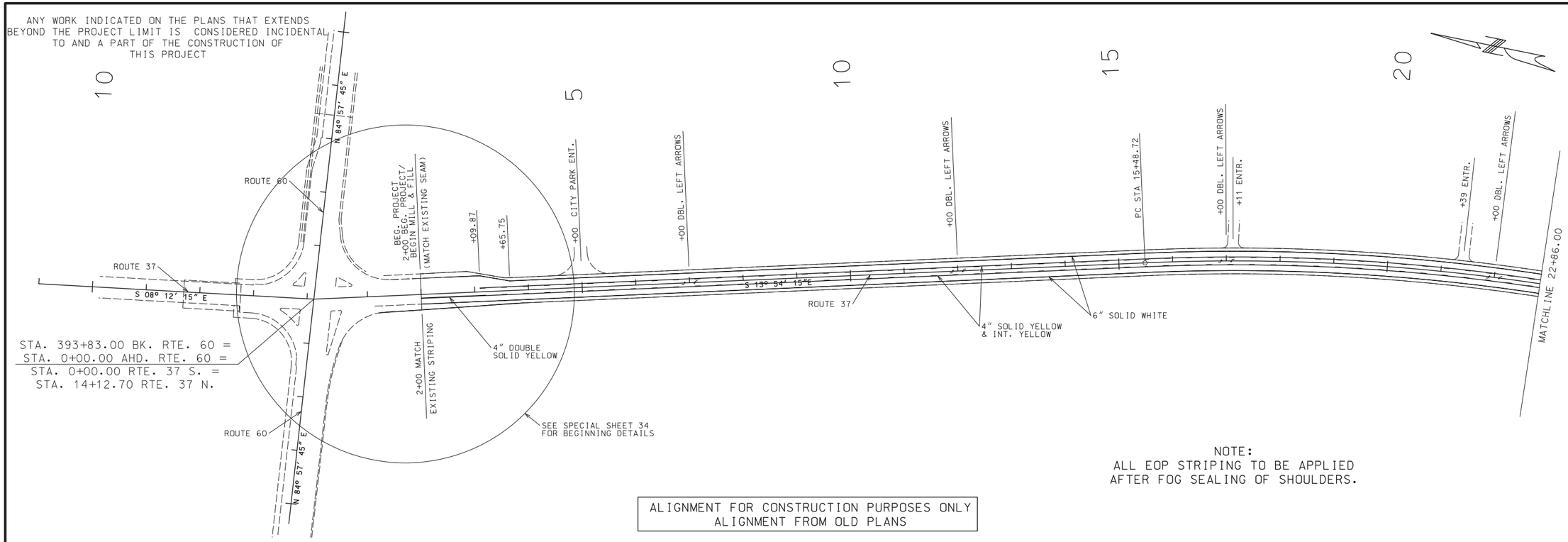
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

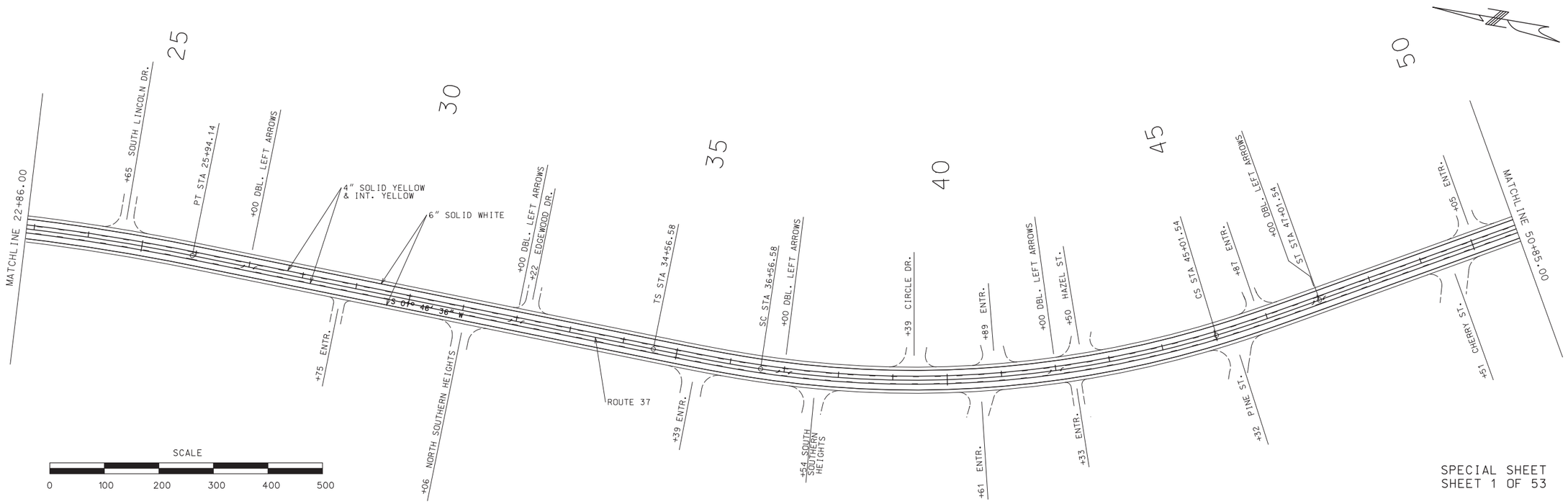
SUMMARY OF QUANTITIES
SHEET 16 OF 16

ANY WORK INDICATED ON THE PLANS THAT EXTENDS BEYOND THE PROJECT LIMIT IS CONSIDERED INCIDENTAL TO AND A PART OF THE CONSTRUCTION OF THIS PROJECT



ALIGNMENT FOR CONSTRUCTION PURPOSES ONLY
ALIGNMENT FROM OLD PLANS

NOTE:
ALL EOP STRIPING TO BE APPLIED
AFTER FOG SEALING OF SHOULDERS.



SPECIAL SHEET
SHEET 1 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	4

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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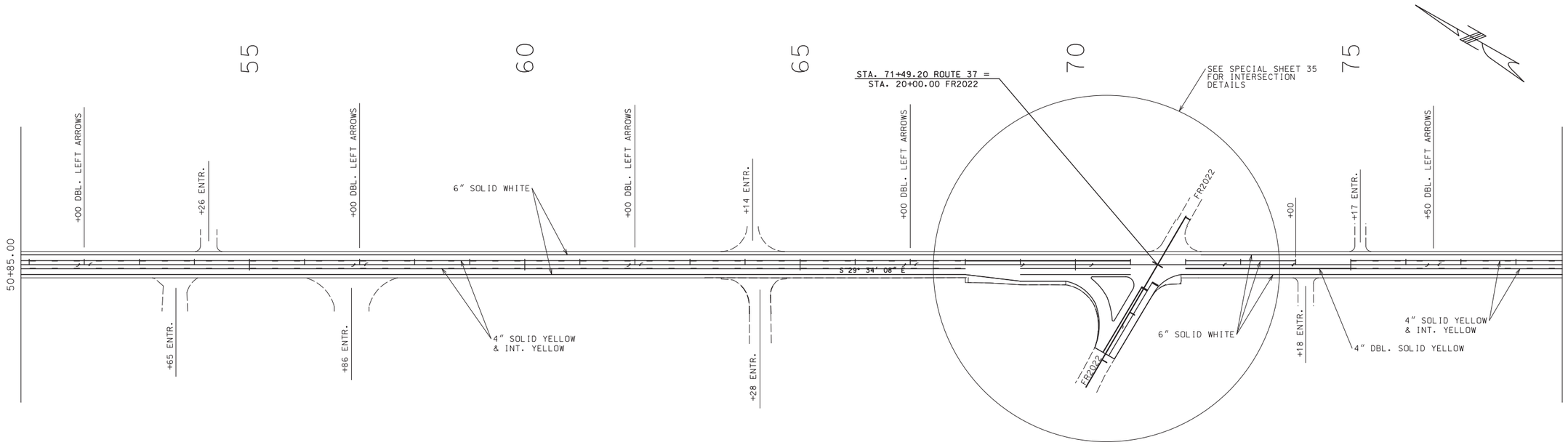

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ALIGNMENT FROM OLD PLANS

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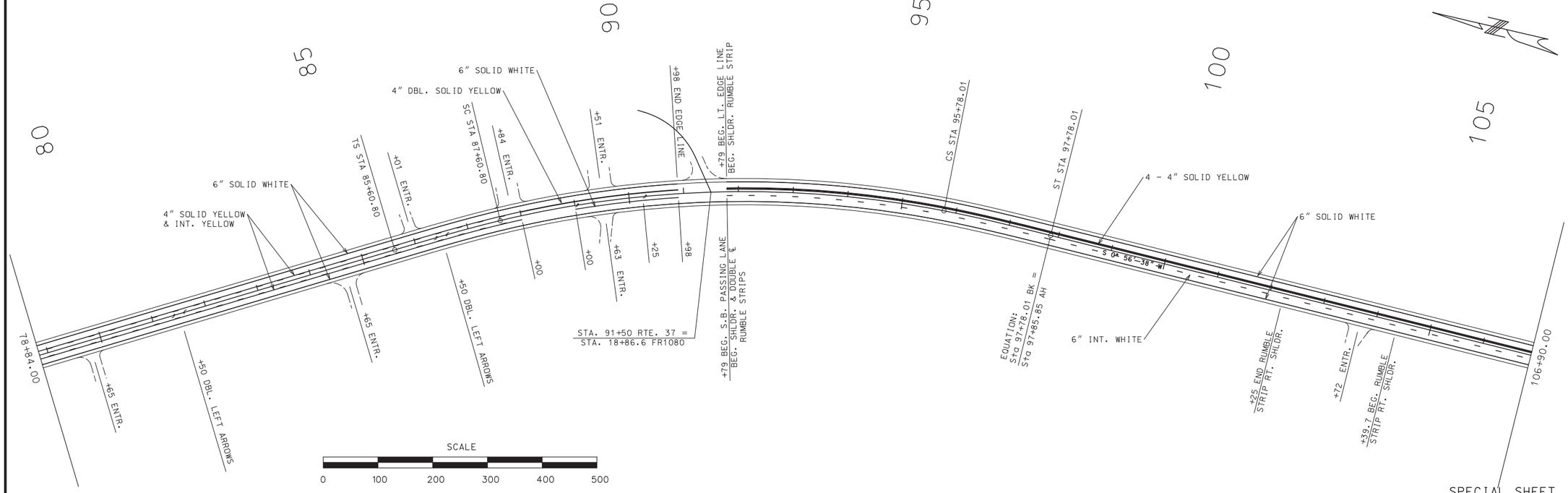

SPECIAL SHEET
SHEET 2 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	5

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
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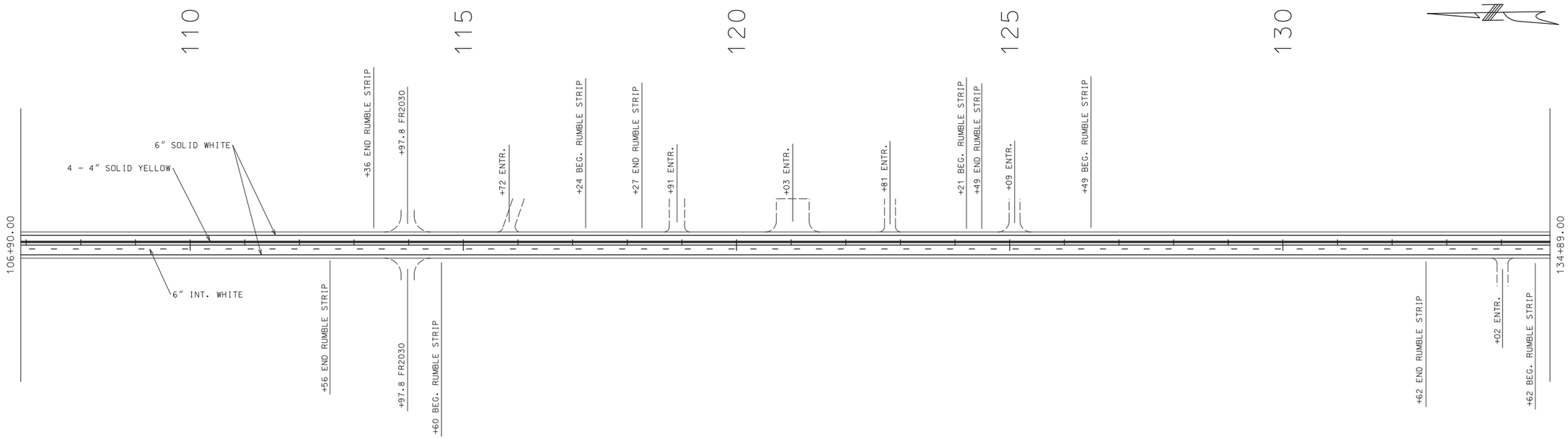
REV.



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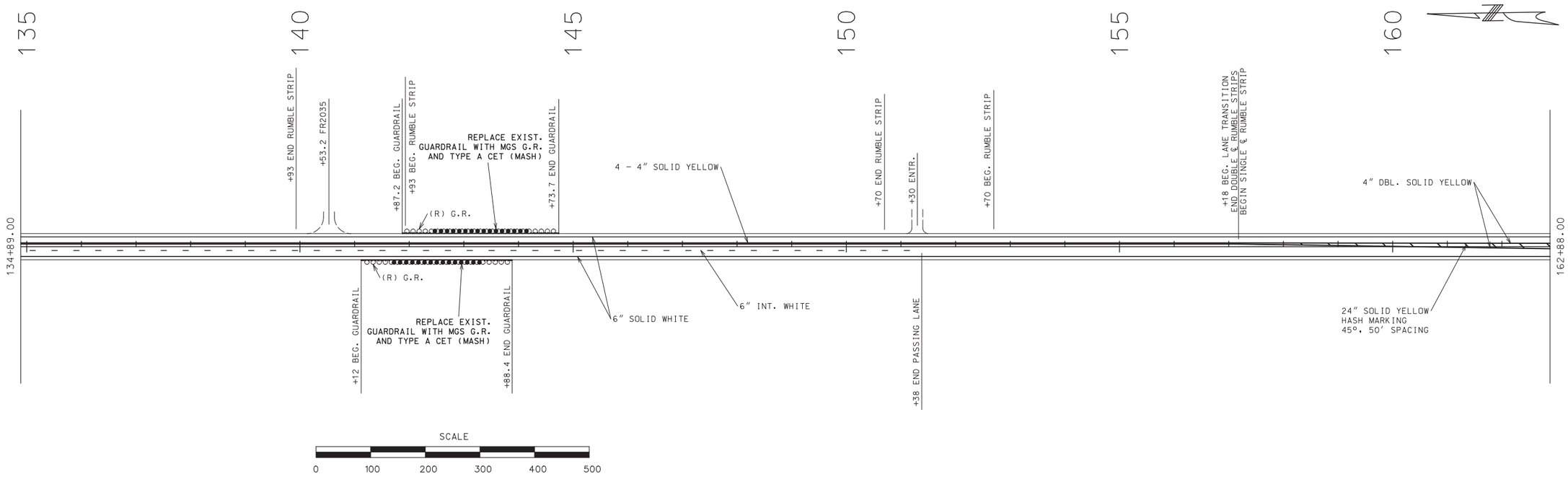
AFTER FOG SEALING OF SHOULDERS.



SCALE
0 100 200 300 400 500

SPECIAL SHEET
SHEET 3 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
3/16/2020	
ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	6
COUNTY	
BARRY	
JOB NO.	
J7P3120	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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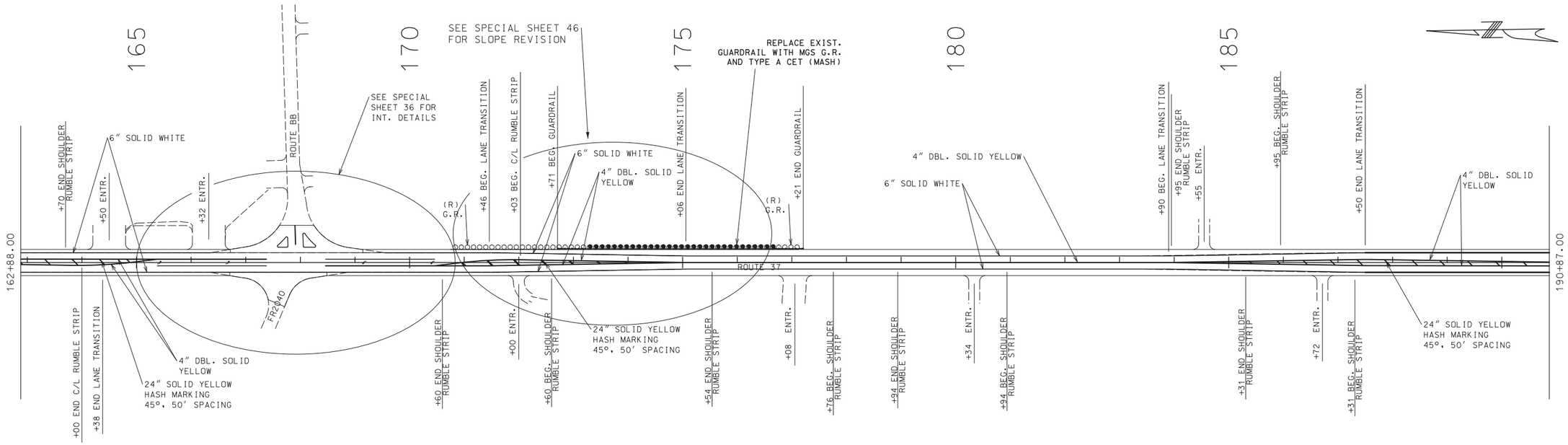
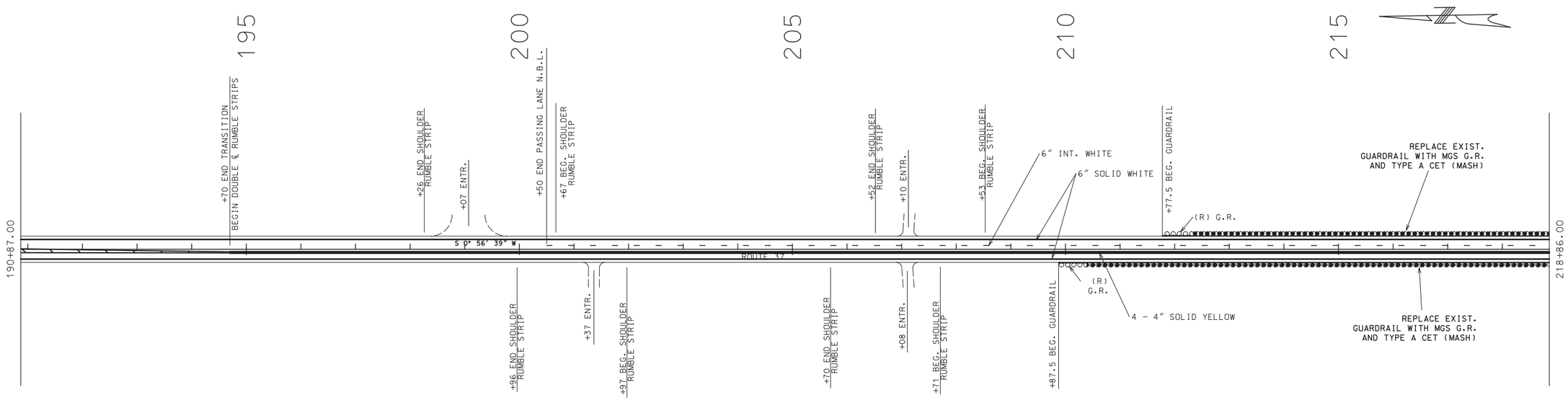
1-888-ASK-MODOT (1-888-275-6636)

REV.



ALIGNMENT FOR CONSTRUCTION PURPOSES ONLY
ALIGNMENT FROM OLD PLANS

NOTE:
ALL EOP STRIPING TO BE APPLIED AFTER FOG SEALING OF SHOULDERS.



SCALE
0 100 200 300 400 500

SPECIAL SHEET
SHEET 4 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	7

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

PROJECT NO.

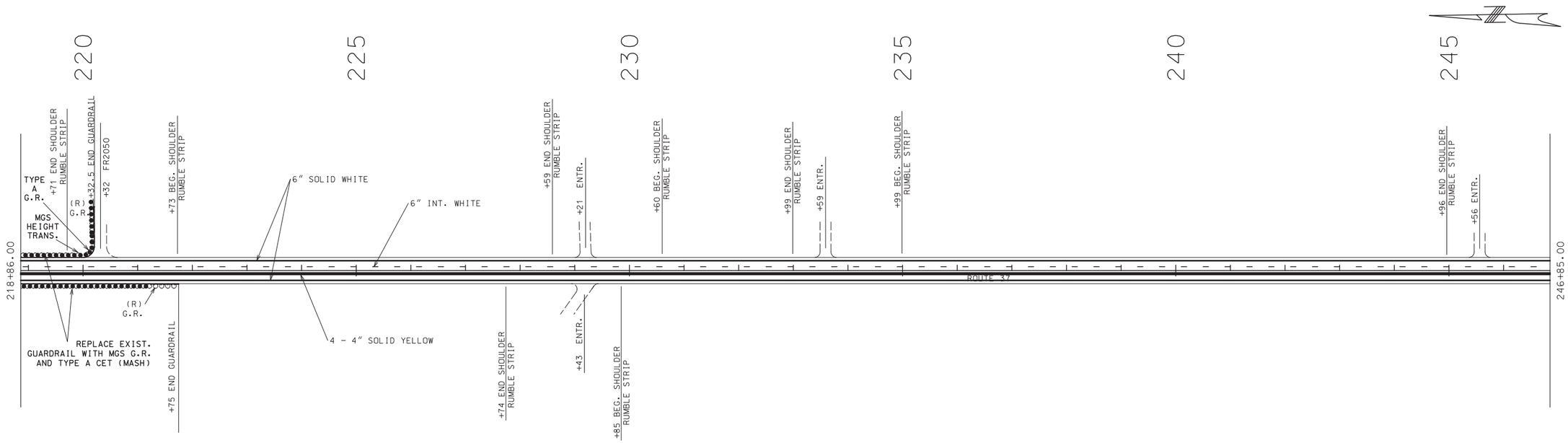
BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



ALIGNMENT FOR CONSTRUCTION PURPOSES ONLY
ALIGNMENT FROM OLD PLANS

NOTE:
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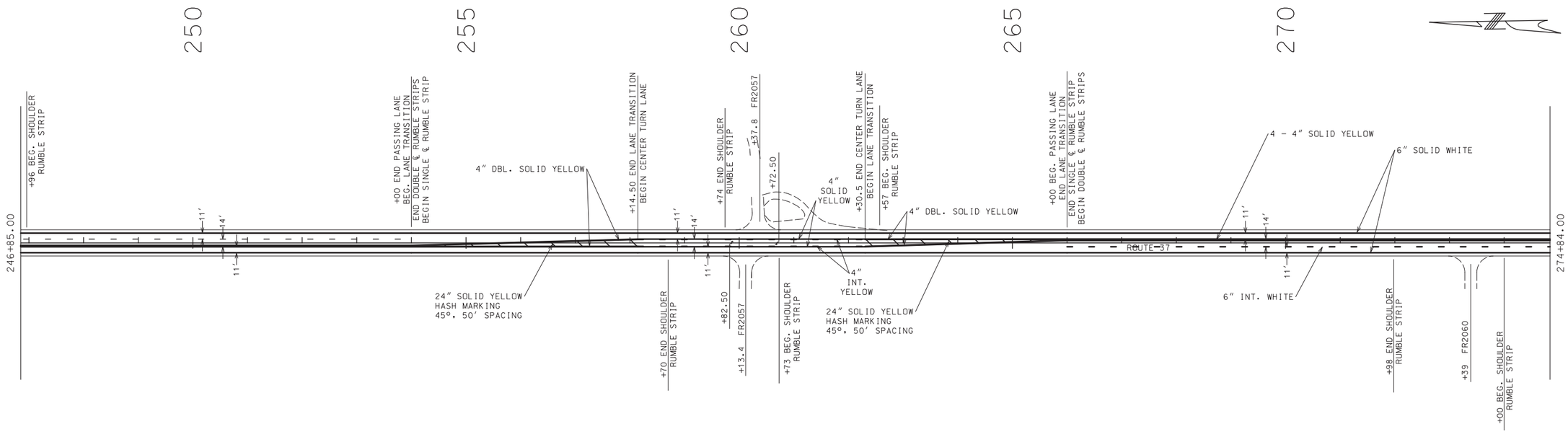


SCALE
0 100 200 300 400 500

SPECIAL SHEET
SHEET 5 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	8

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

PROJECT NO.

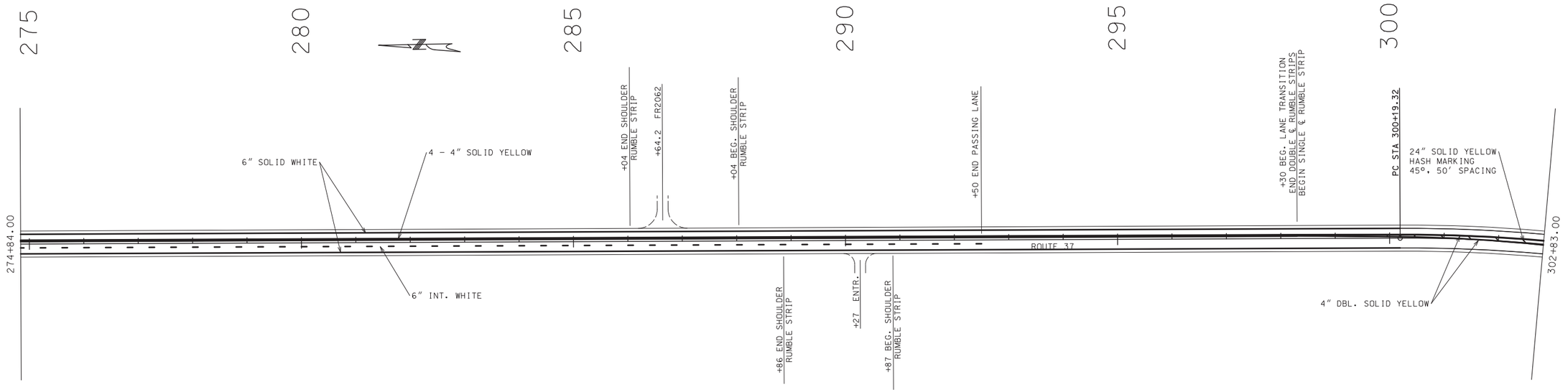
BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



ALIGNMENT FOR CONSTRUCTION PURPOSES ONLY
ALIGNMENT FROM OLD PLANS

NOTE:
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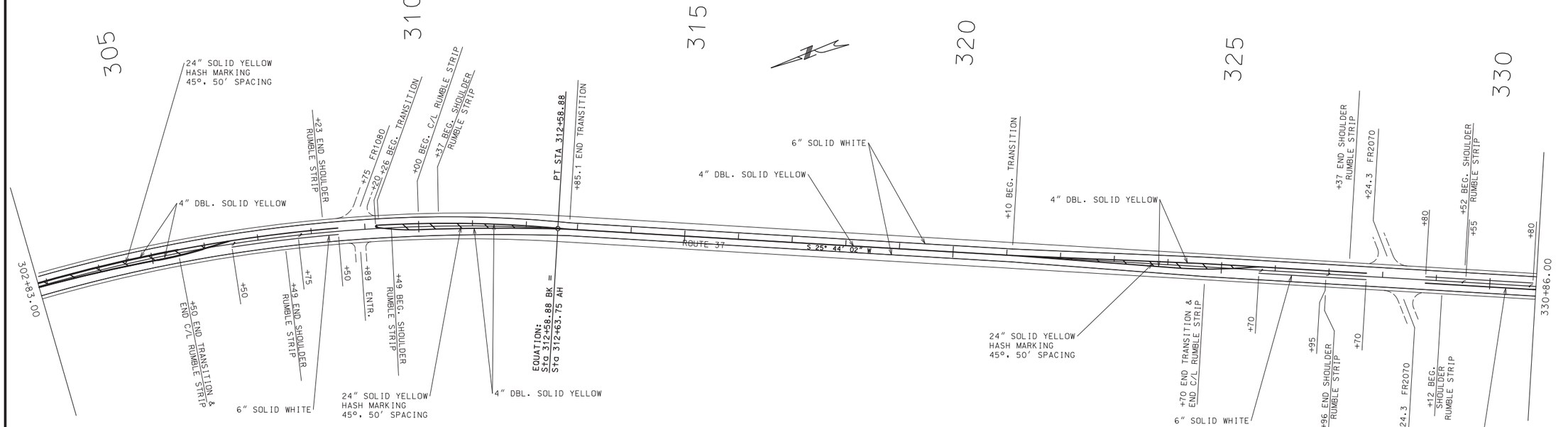
AFTER FOG SEALING OF SHOULDERS.



SCALE
0 100 200 300 400 500

SPECIAL SHEET
SHEET 6 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	9

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

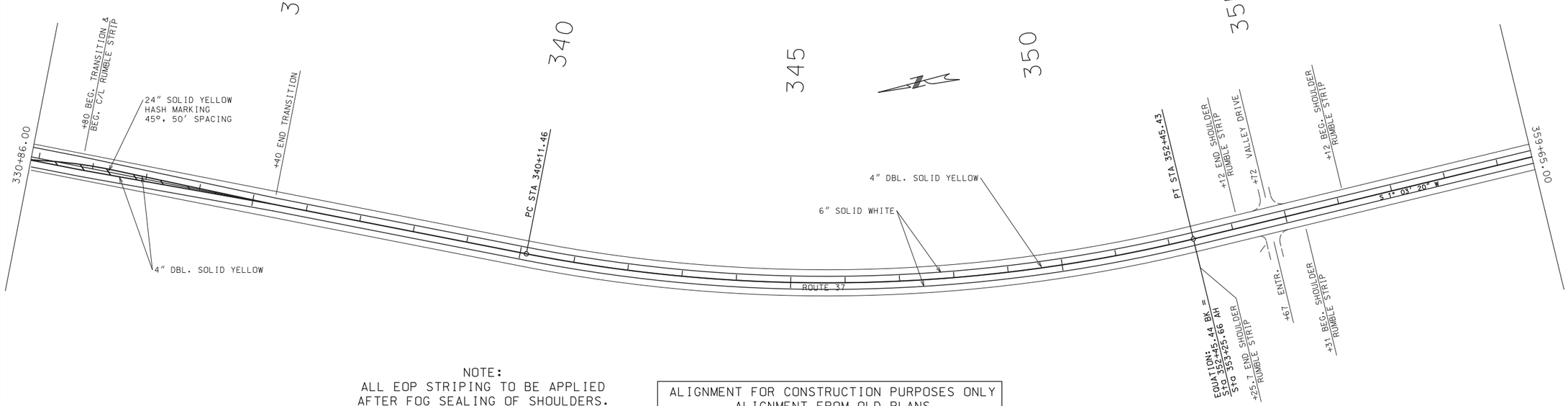
PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



NOTE:
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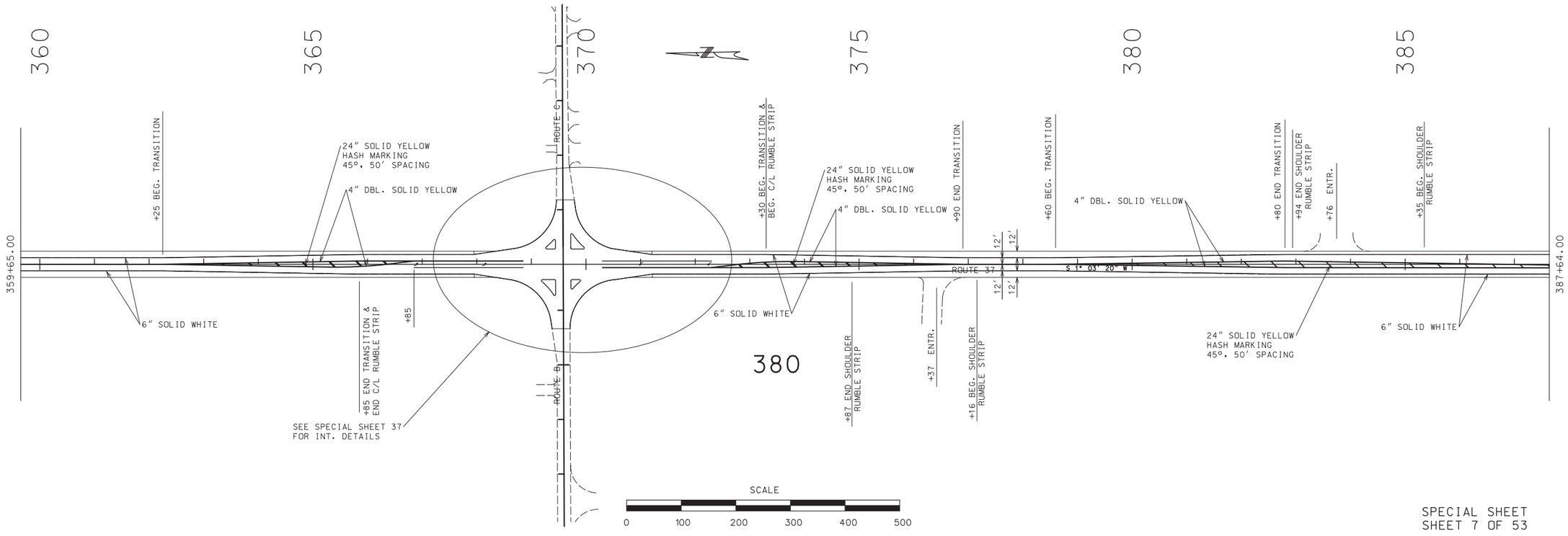
ALIGNMENT FOR CONSTRUCTION PURPOSES ONLY
ALIGNMENT FROM OLD PLANS



SPECIAL SHEET
SHEET 7 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
3/16/2020	
ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	10
COUNTY	
BARRY	
JOB NO.	
J7P3120	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

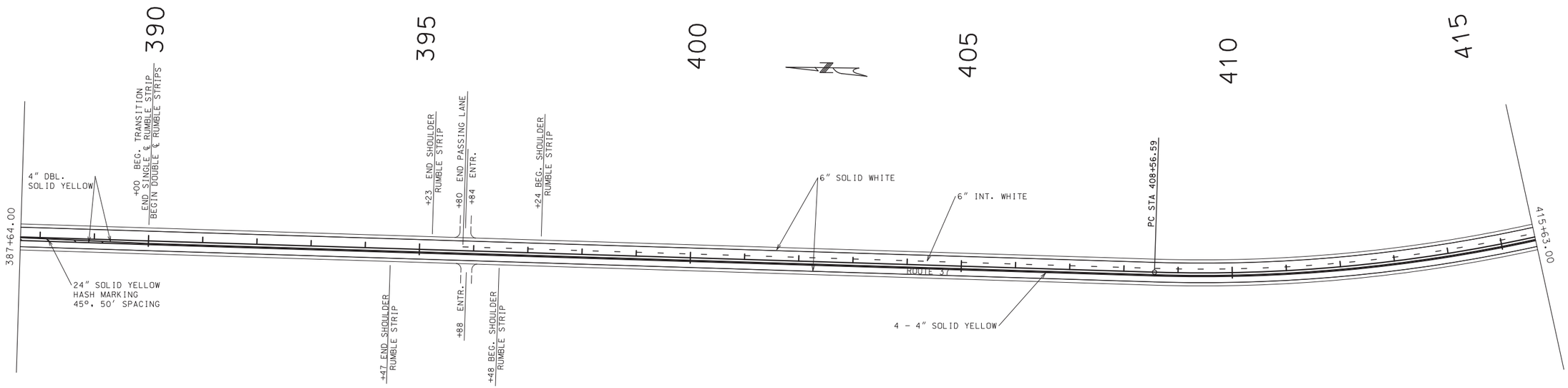
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.



ALIGNMENT FOR CONSTRUCTION PURPOSES ONLY
ALIGNMENT FROM OLD PLANS

NOTE:
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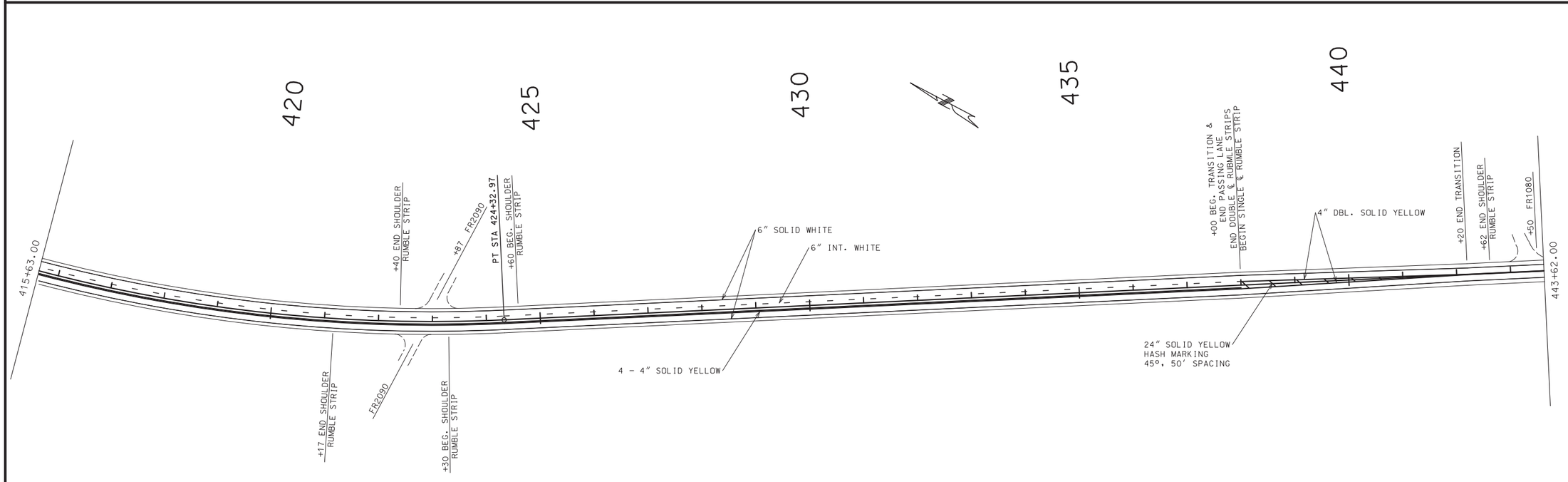


SPECIAL SHEET
SHEET 8 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
3/16/2020	
ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	11
COUNTY	
BARRY	
JOB NO.	
J7P3120	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

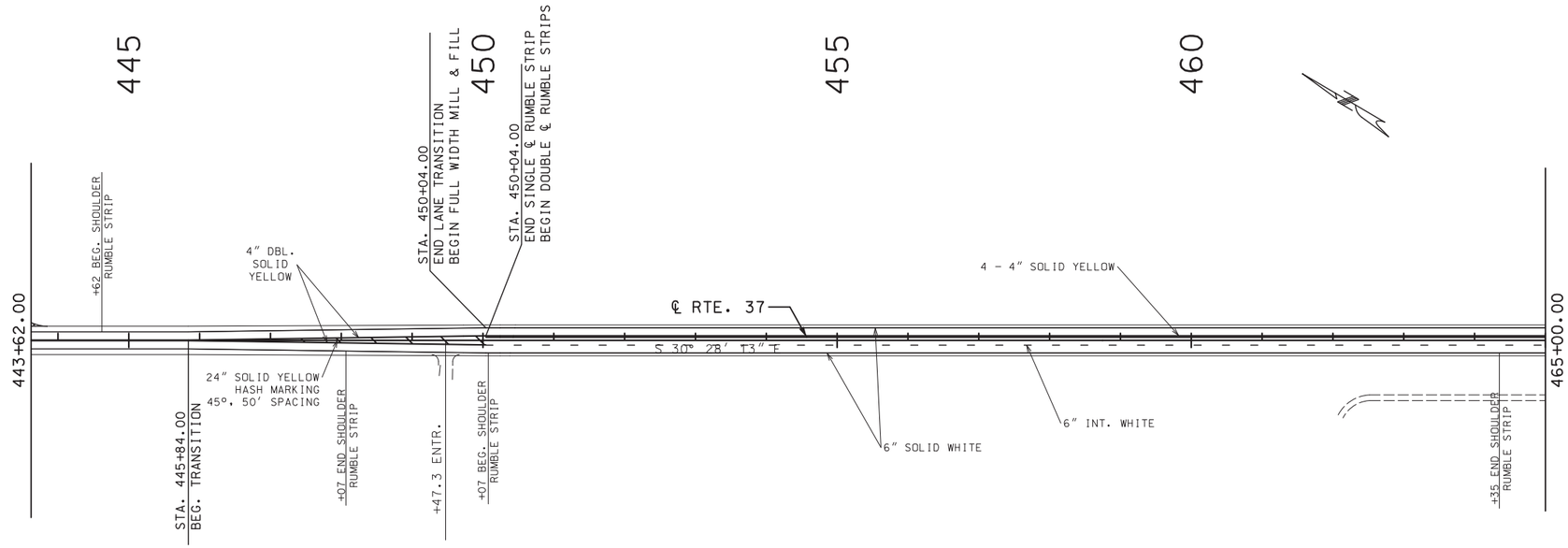
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

ALL BEARINGS BASED ON
STATE PLANE BEARING
WESTERN ZONE.



ALIGNMENT FOR CONSTRUCTION PURPOSES ONLY
ALIGNMENT FROM OLD PLANS

NOTE:
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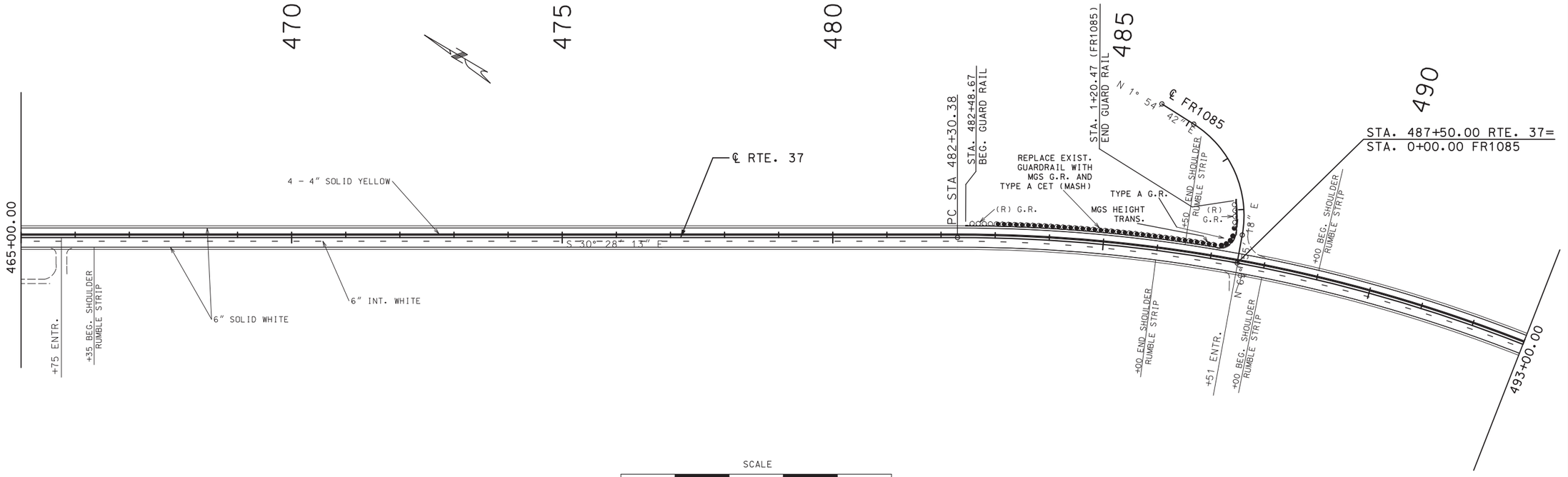
AFTER FOG SEALING OF SHOULDERS.



SCALE
0 100 200 300 400 500

SPECIAL SHEET
SHEET 9 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	12

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

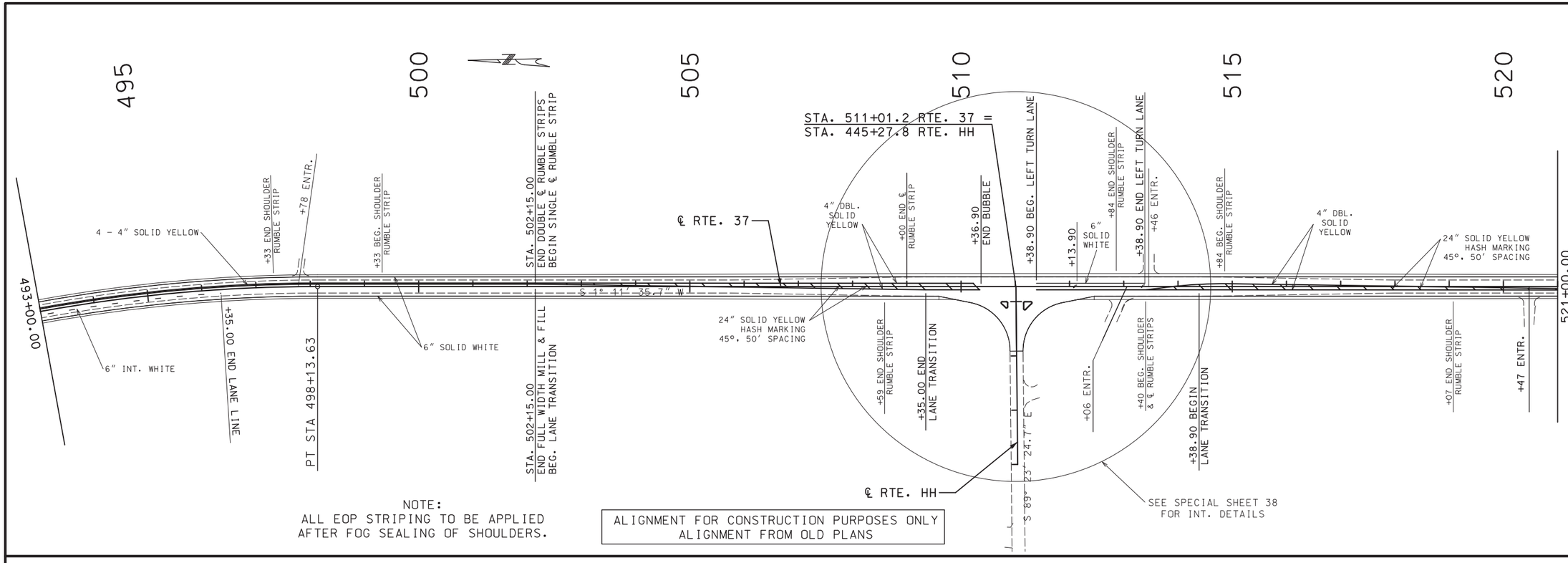
DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.



NOTE:
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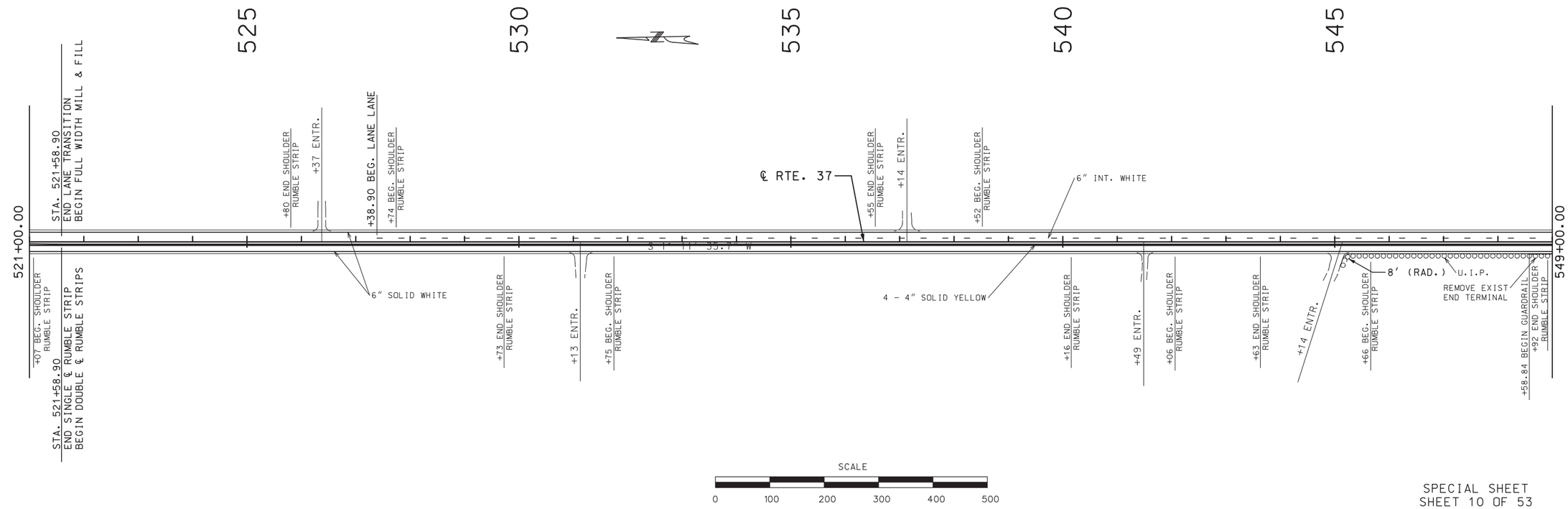
ALIGNMENT FOR CONSTRUCTION PURPOSES ONLY
ALIGNMENT FROM OLD PLANS



SCALE
0 100 200 300 400 500

SPECIAL SHEET
SHEET 10 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	13

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

PROJECT NO.

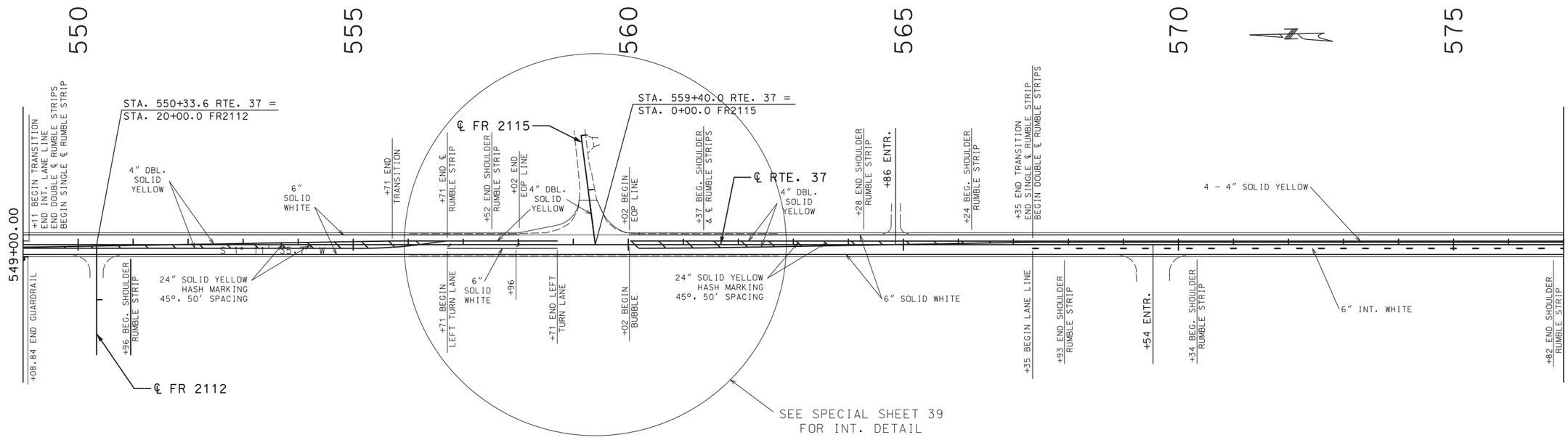
BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



ALIGNMENT FOR CONSTRUCTION PURPOSES ONLY
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NOTE:
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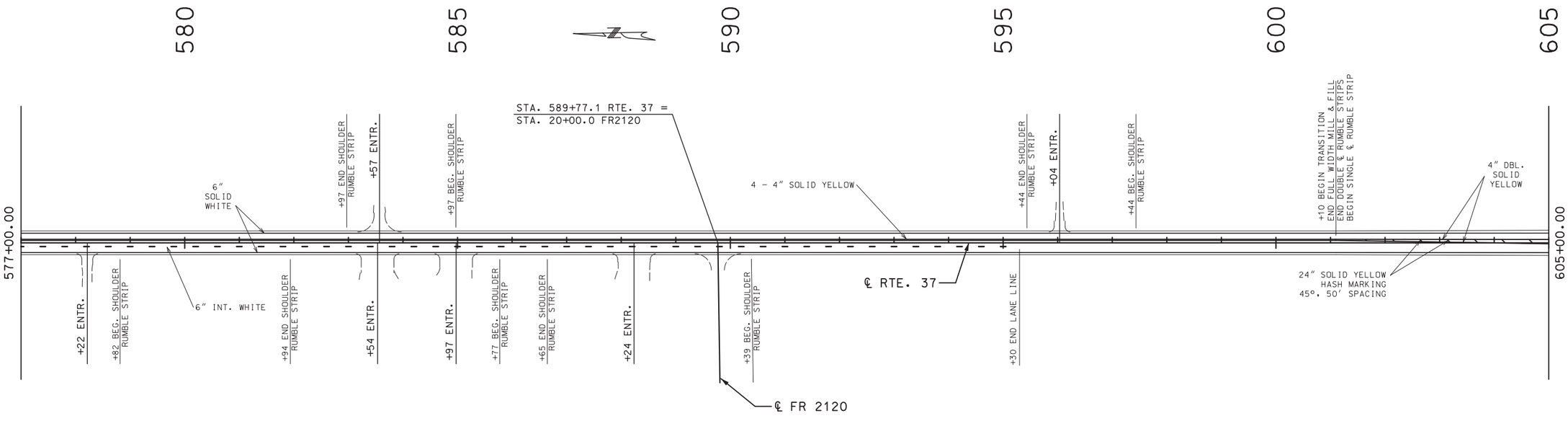


SCALE
0 100 200 300 400 500

SPECIAL SHEET
SHEET 11 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	14

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

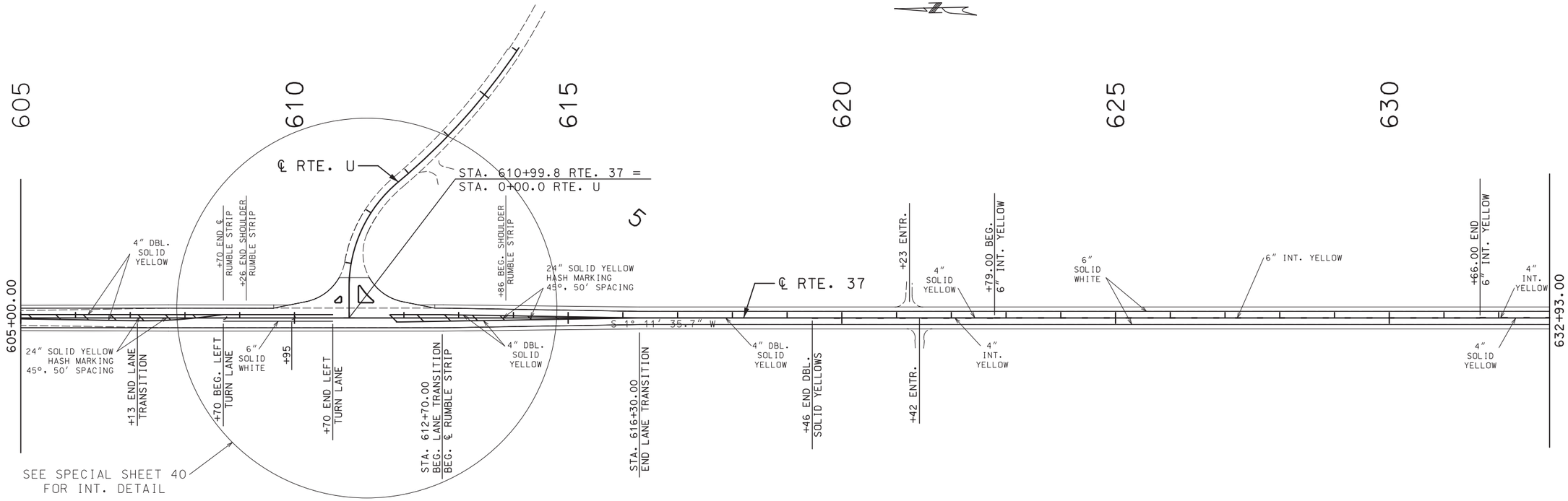
PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



NOTE:
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AFTER FOG SEALING OF SHOULDERS.

SCALE
0 100 200 300 400 500

ALIGNMENT FOR CONSTRUCTION PURPOSES ONLY
ALIGNMENT FROM OLD PLANS

SPECIAL SHEET
SHEET 12 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	15

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

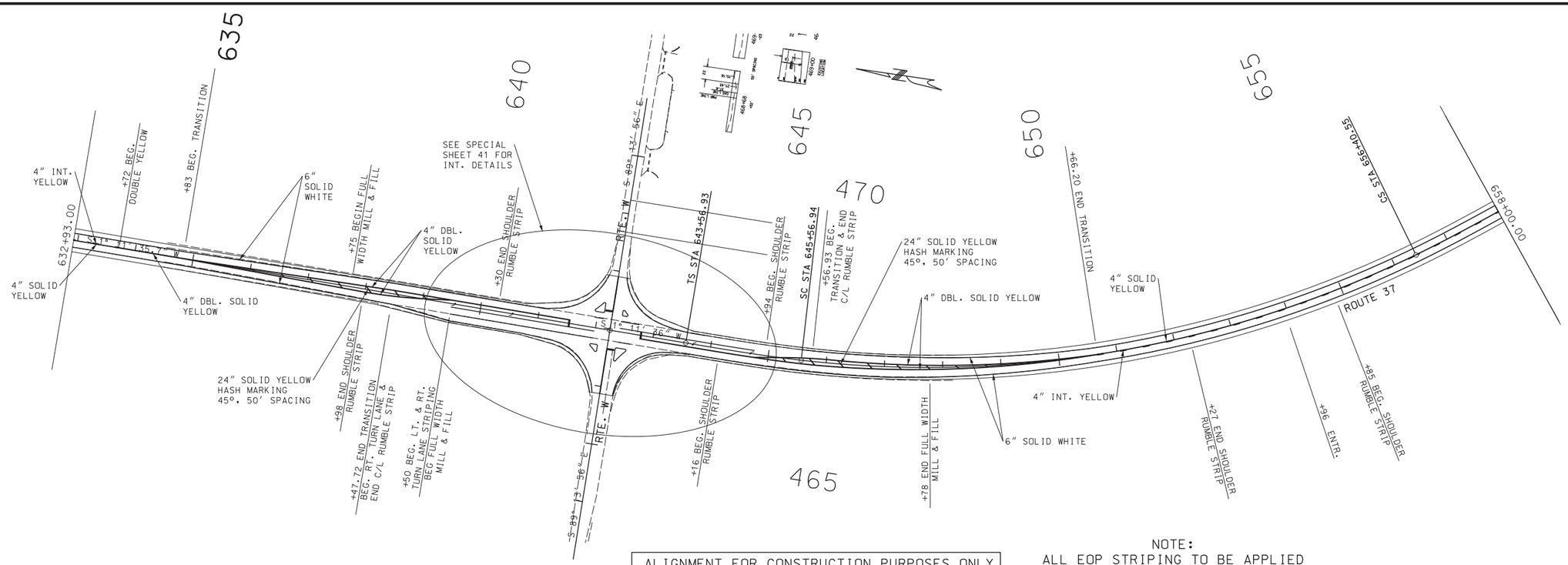
DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.



ALIGNMENT FOR CONSTRUCTION PURPOSES ONLY
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NOTE:
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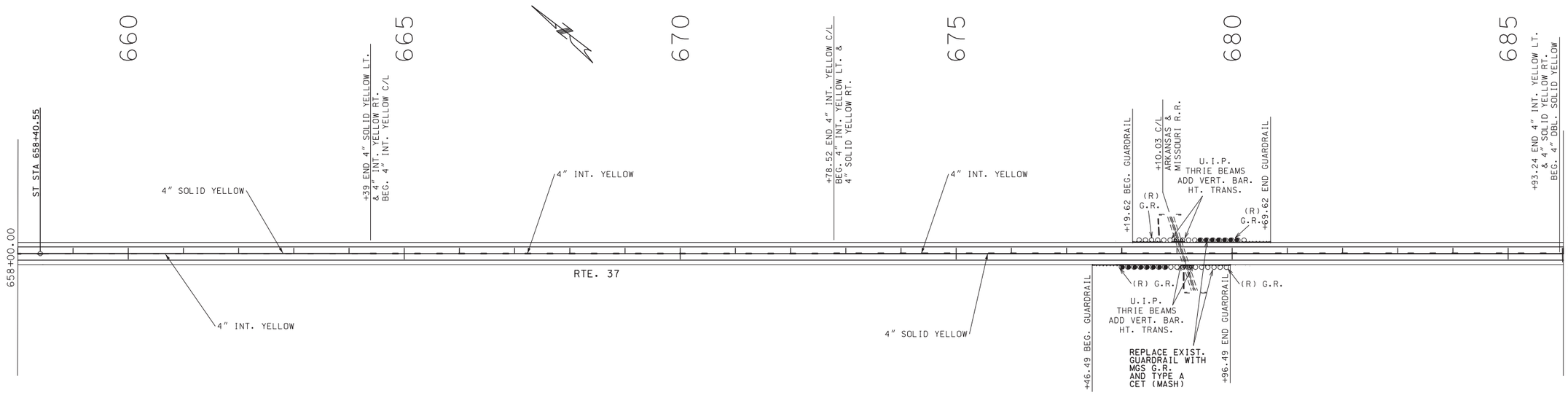


SCALE
0 100 200 300 400 500

SPECIAL SHEET
SHEET 13 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
3/16/2020	
ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	16

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

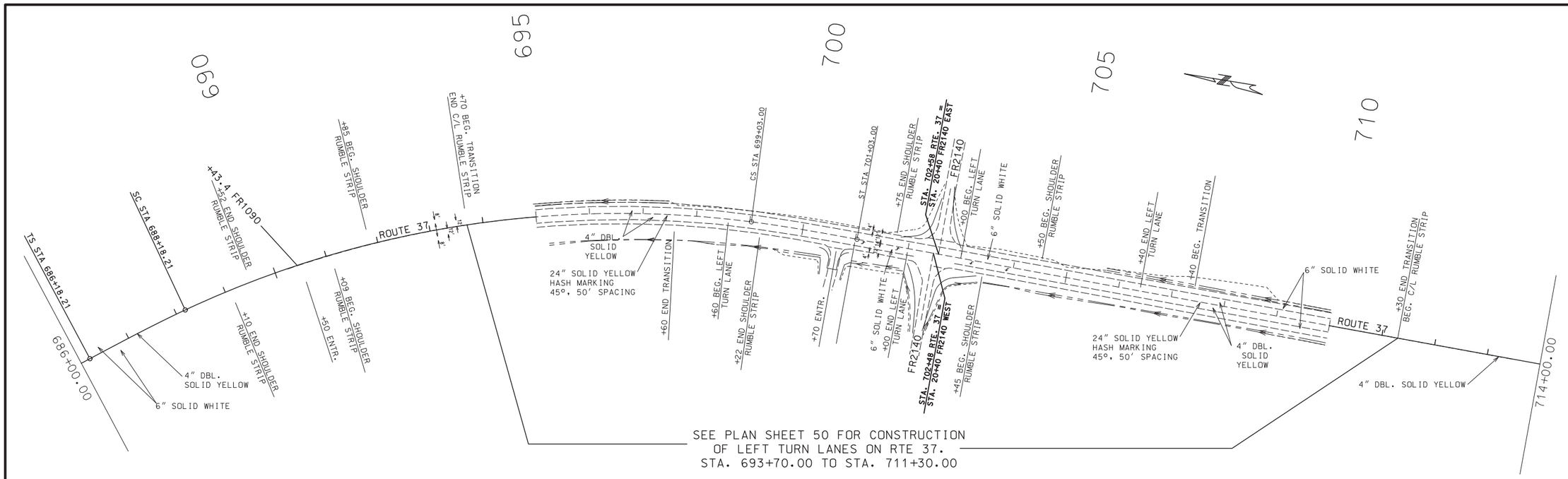
DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.



SEE PLAN SHEET 50 FOR CONSTRUCTION
OF LEFT TURN LANES ON RTE 37.
STA. 693+70.00 TO STA. 711+30.00

ALIGNMENT FOR CONSTRUCTION PURPOSES ONLY
ALIGNMENT FROM OLD PLANS

NOTE:
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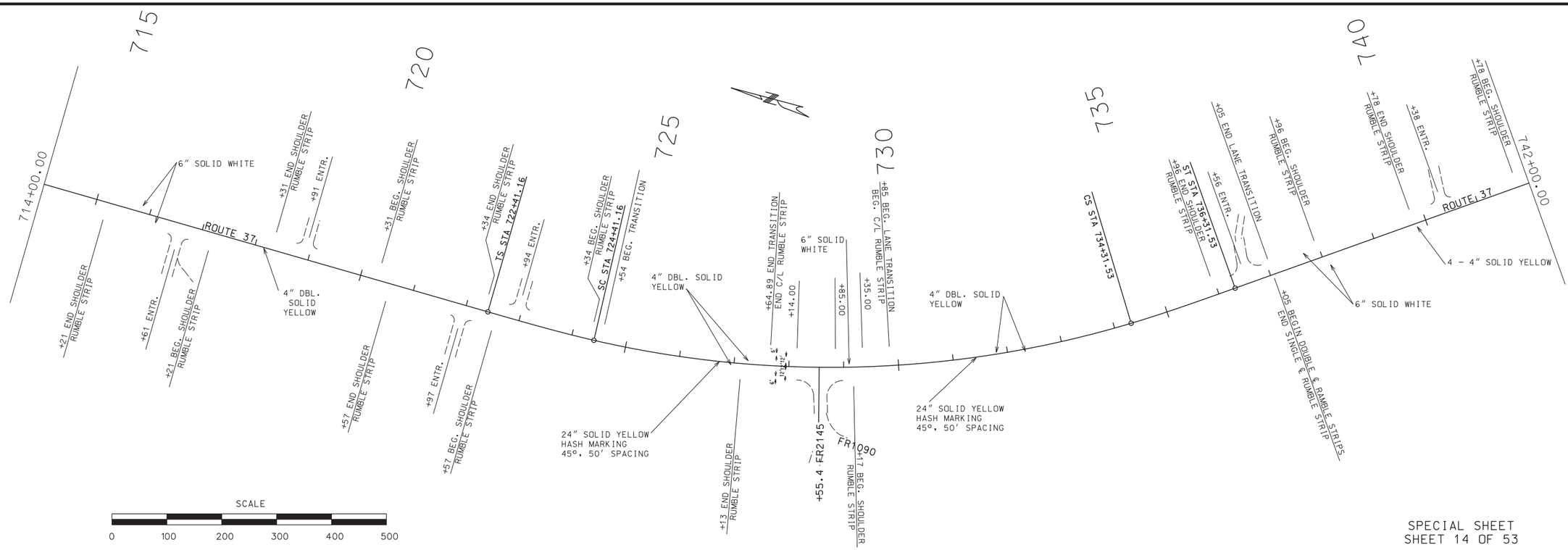
AFTER FOG SEALING OF SHOULDERS.



SCALE
0 100 200 300 400 500

SPECIAL SHEET
SHEET 14 OF 53

KRISTI BACHMAN
NUMBER PE-2003014941
STATE OF MISSOURI
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/19/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	17

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

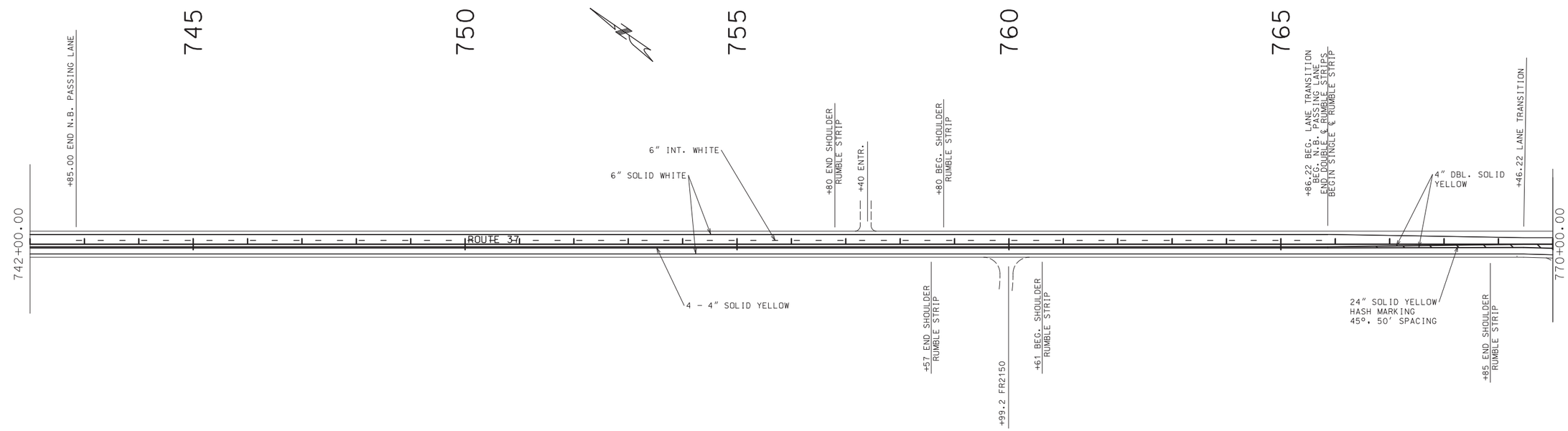
DATE	DESCRIPTION

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



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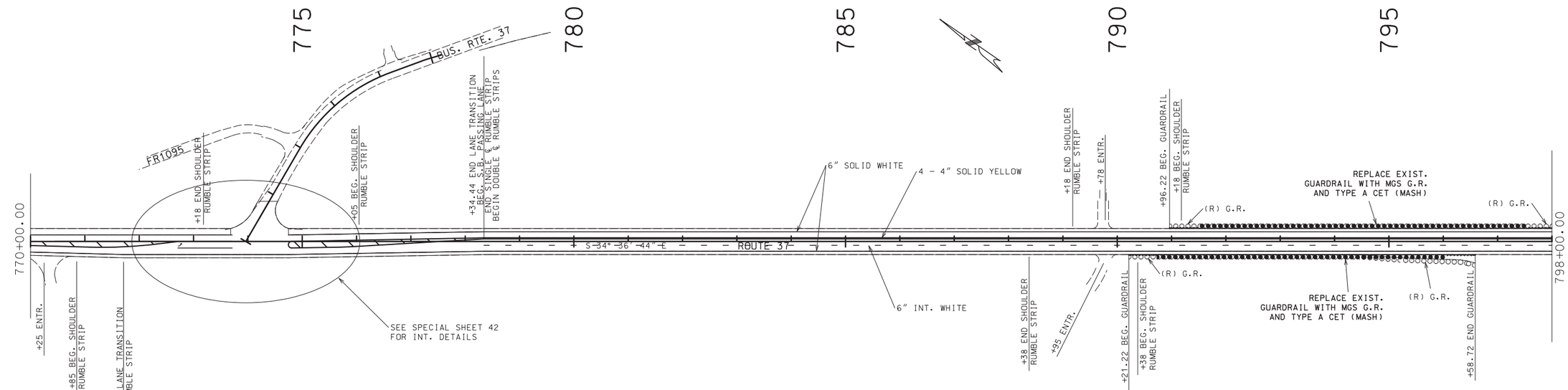


SCALE
0 100 200 300 400 500

SPECIAL SHEET
SHEET 15 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	18

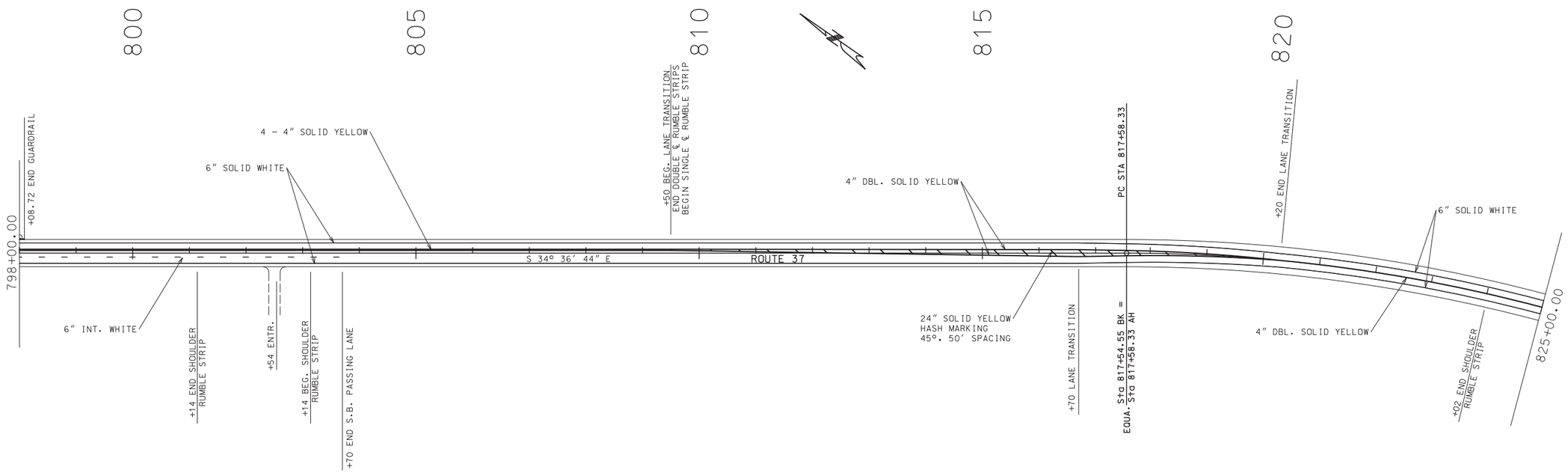
COUNTY BARRY
JOB NO. J7P3120
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.



ALIGNMENT FOR CONSTRUCTION PURPOSES ONLY
ALIGNMENT FROM OLD PLANS

NOTE:
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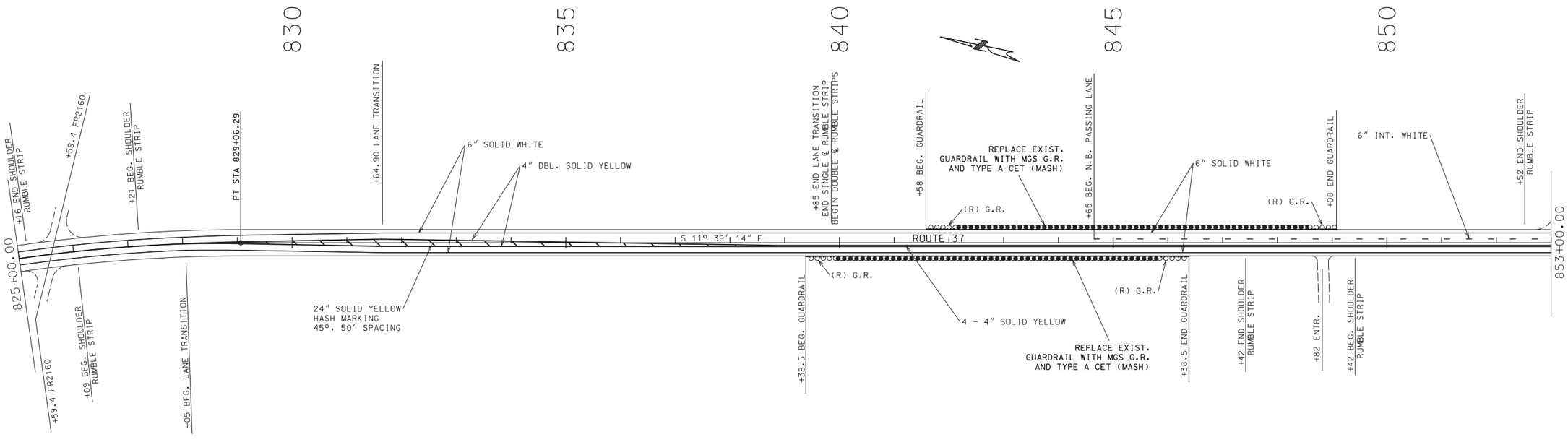
AFTER FOG SEALING OF SHOULDERS.



SCALE
0 100 200 300 400 500

SPECIAL SHEET
SHEET 16 OF 53

KRISTI BACHMAN
NUMBER PE-2003014941
STATE OF MISSOURI
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	19

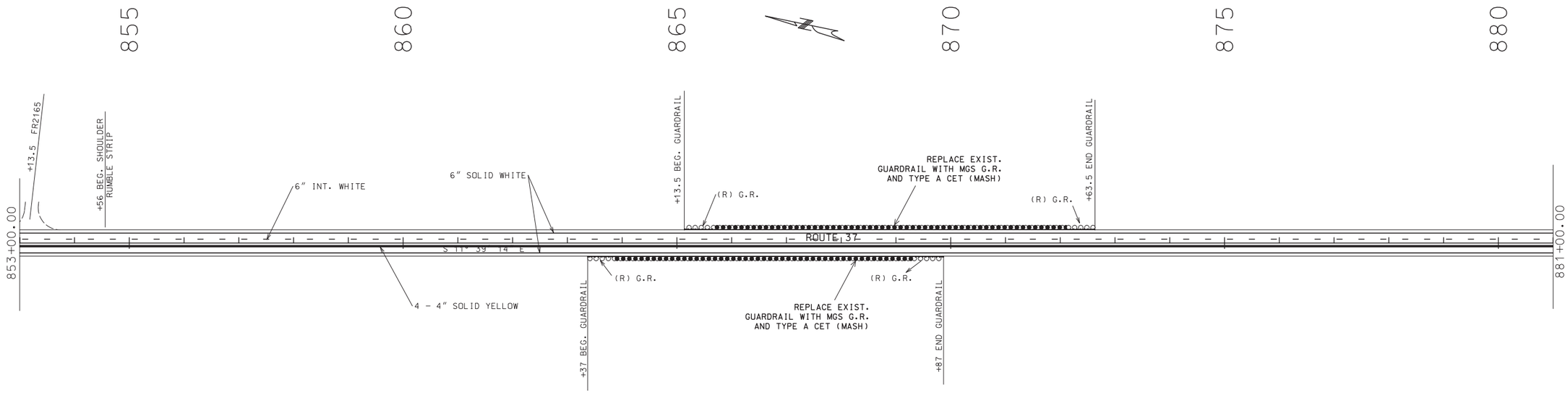
COUNTY: BARRY
JOB NO.: J7P3120
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.



ALIGNMENT FOR CONSTRUCTION PURPOSES ONLY
ALIGNMENT FROM OLD PLANS

NOTE:
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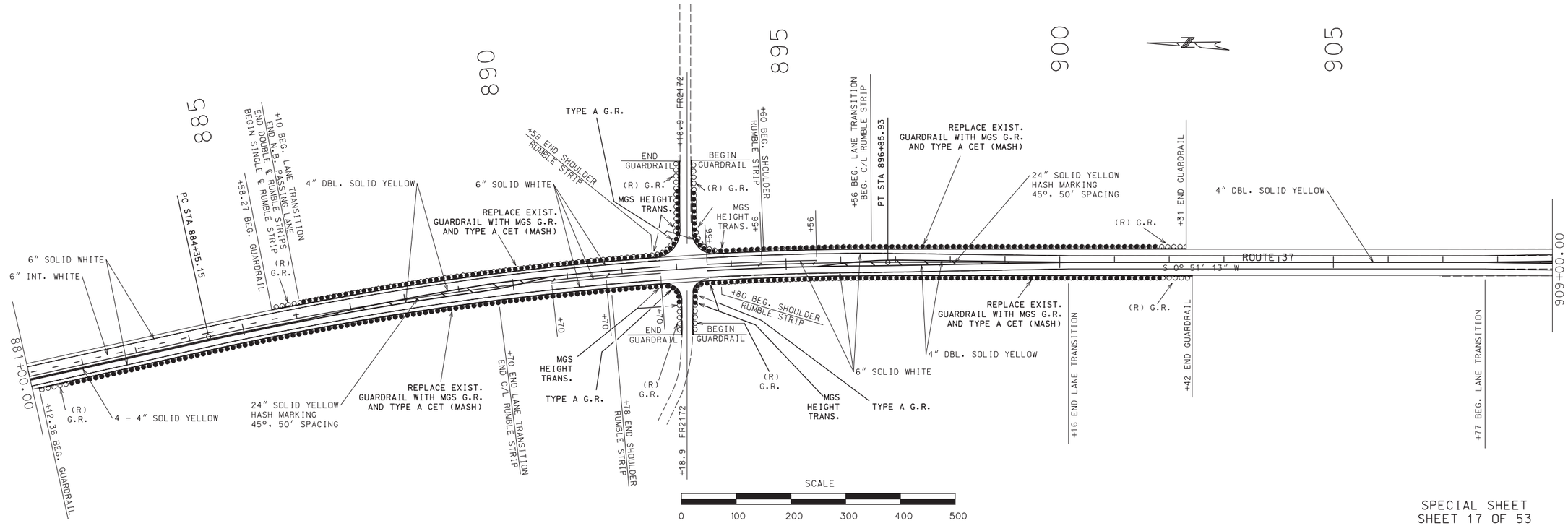

SPECIAL SHEET
SHEET 17 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
3/17/2020	
ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	20
COUNTY	
BARRY	
JOB NO.	
J7P3120	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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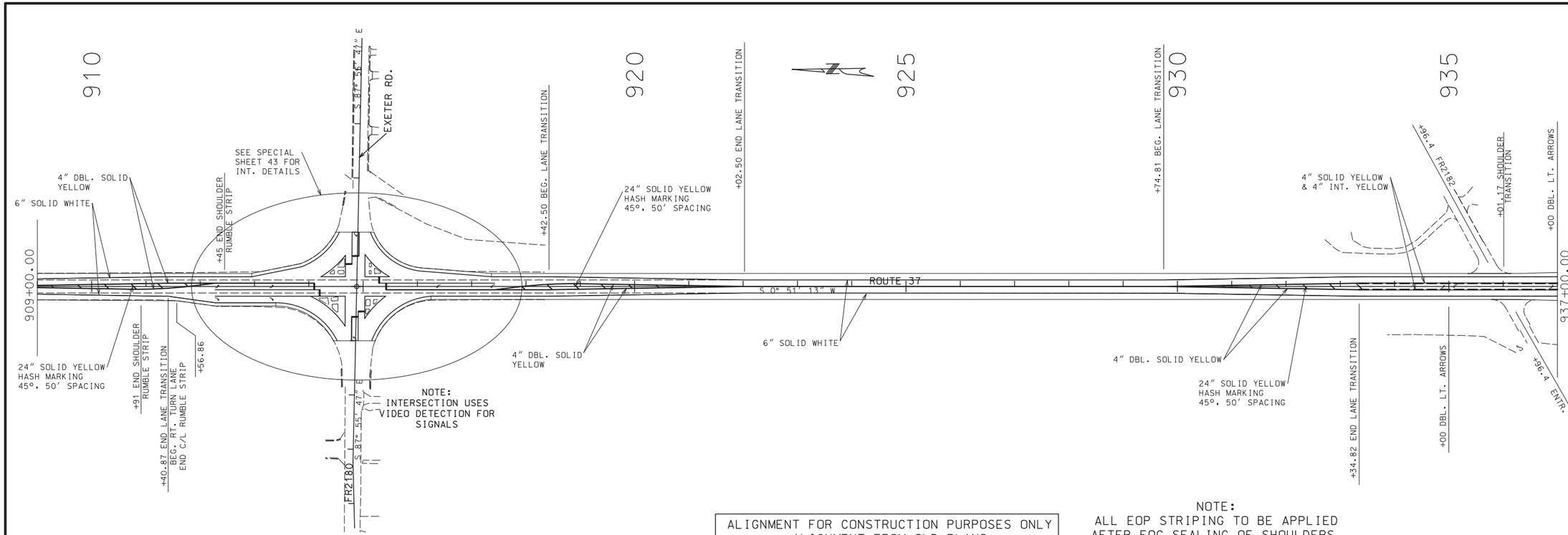
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

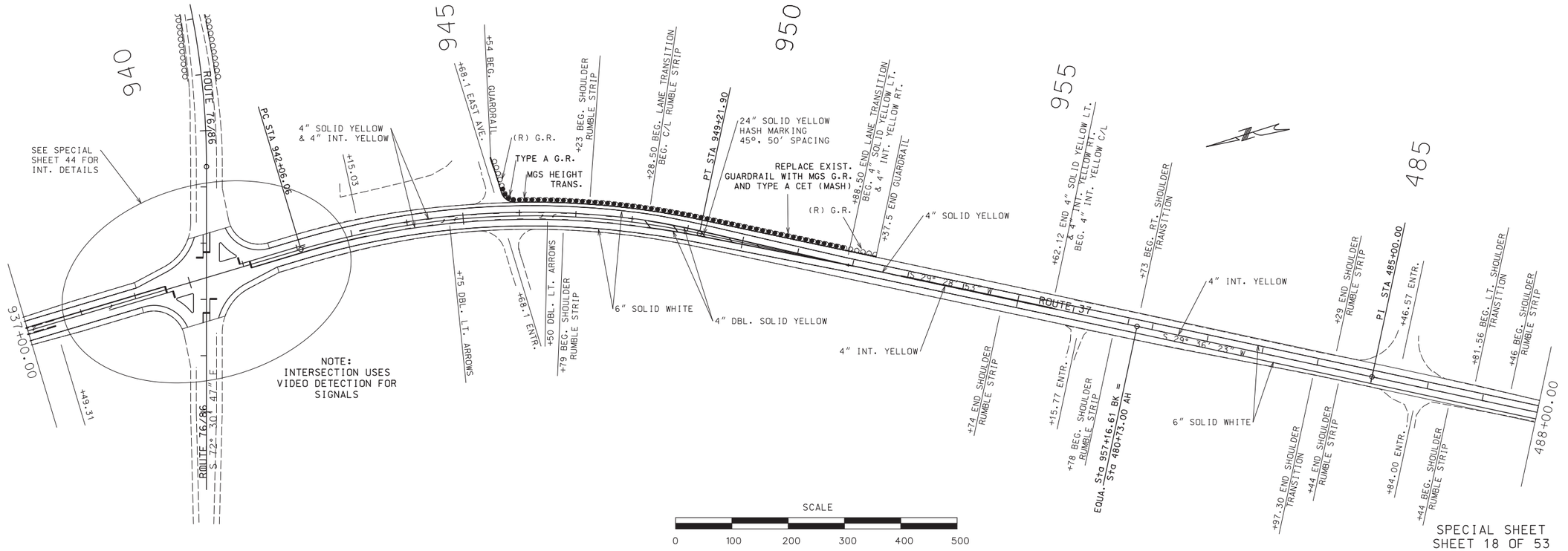
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.



ALIGNMENT FOR CONSTRUCTION PURPOSES ONLY
ALIGNMENT FROM OLD PLANS

NOTE:
ALL EOP STRIPING TO BE APPLIED AFTER FOG SEALING OF SHOULDERS.



SCALE
0 100 200 300 400 500

SPECIAL SHEET
SHEET 18 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	21

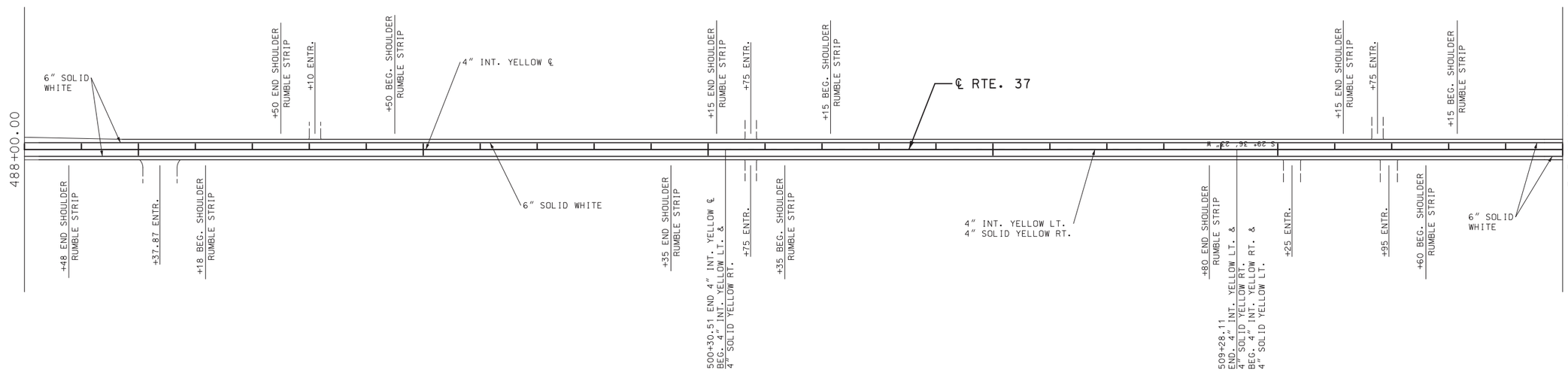
COUNTY: BARRY
JOB NO.: J7P3120
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.



NOTE:
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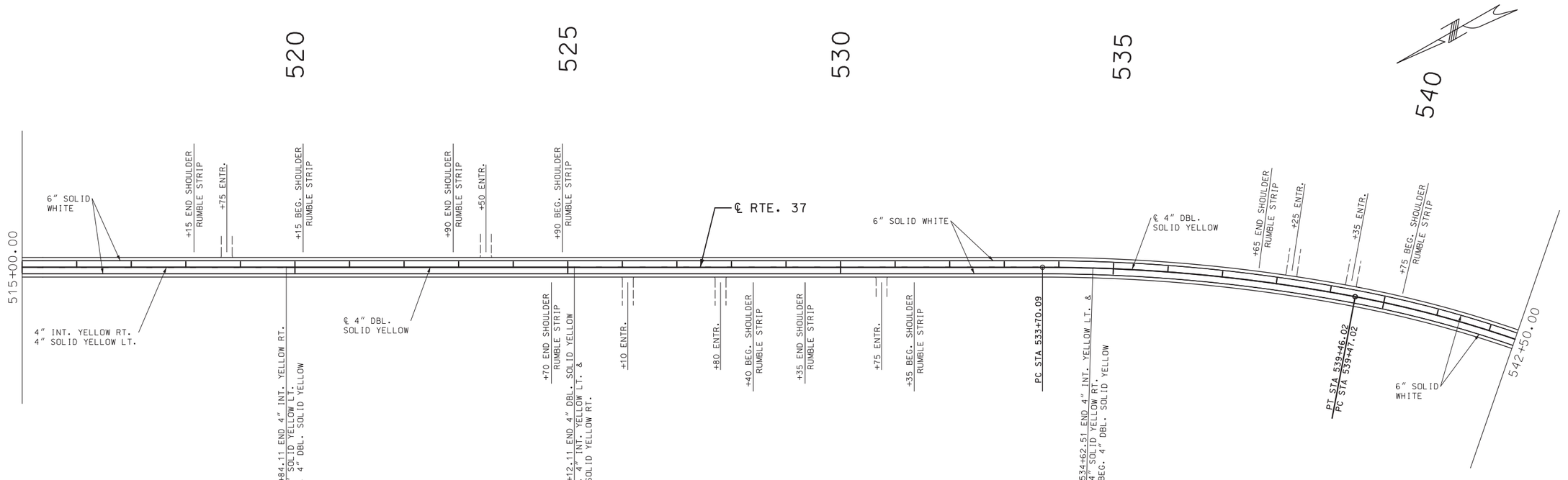
ALIGNMENT FOR CONSTRUCTION PURPOSES ONLY
ALIGNMENT FROM OLD PLANS



SCALE
0 100 200 300 400 500

SPECIAL SHEET
SHEET 19 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	22

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

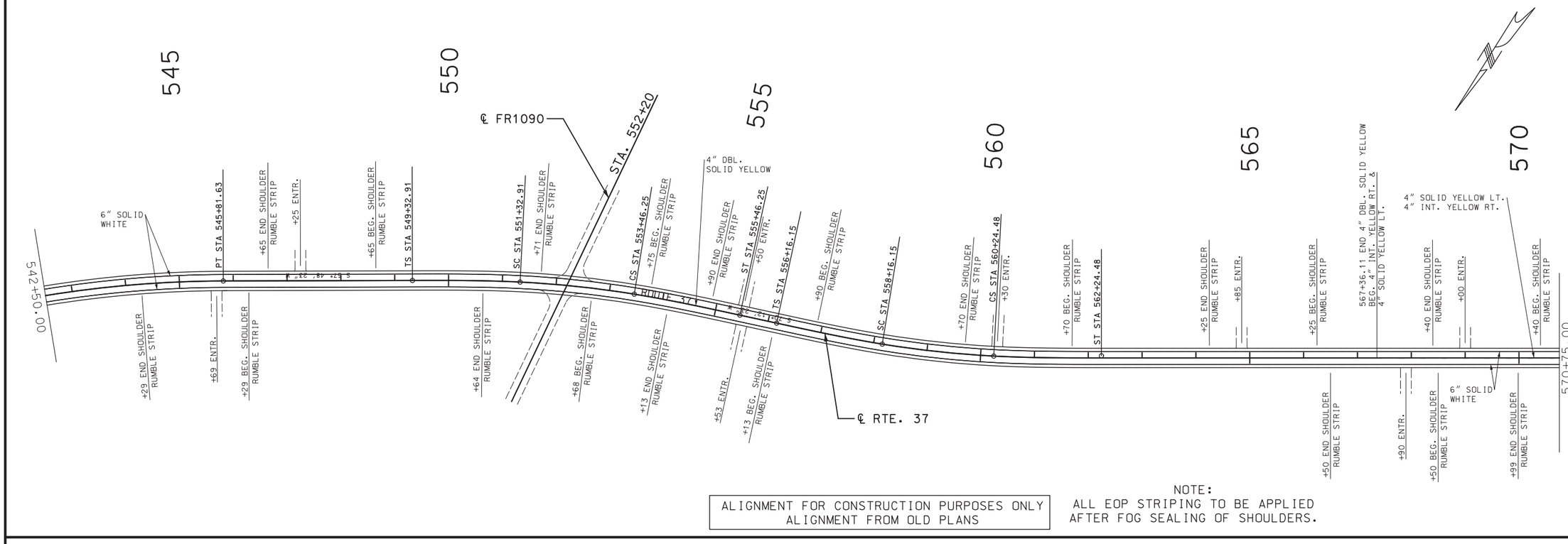
DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

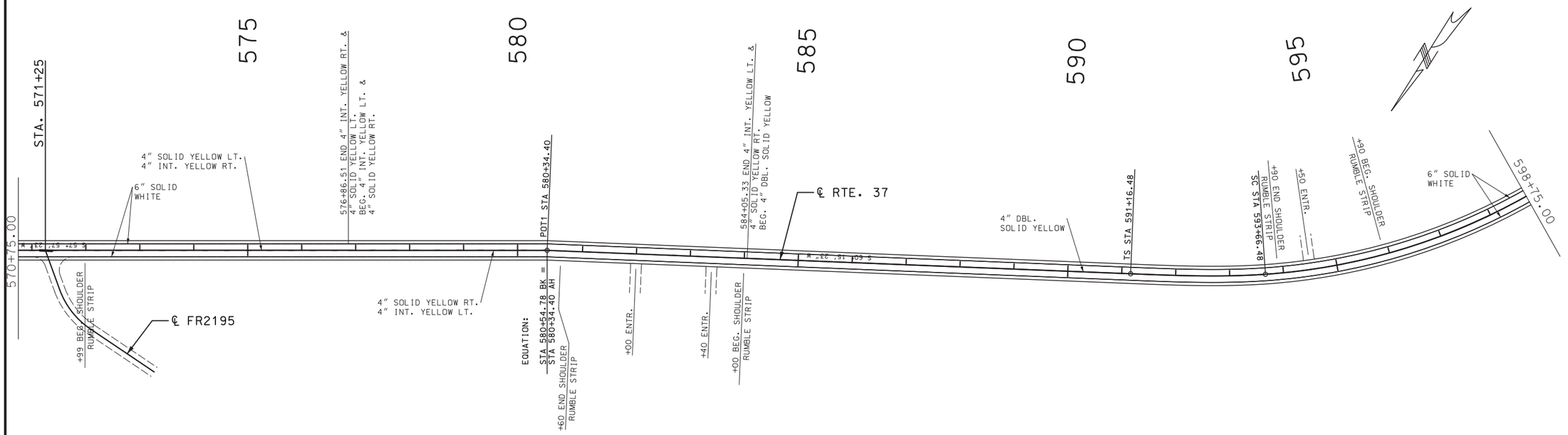
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.



ALIGNMENT FOR CONSTRUCTION PURPOSES ONLY
ALIGNMENT FROM OLD PLANS

NOTE:
ALL EOP STRIPING TO BE APPLIED AFTER FOG SEALING OF SHOULDERS.



SCALE
0 100 200 300 400 500

SPECIAL SHEET
SHEET 20 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

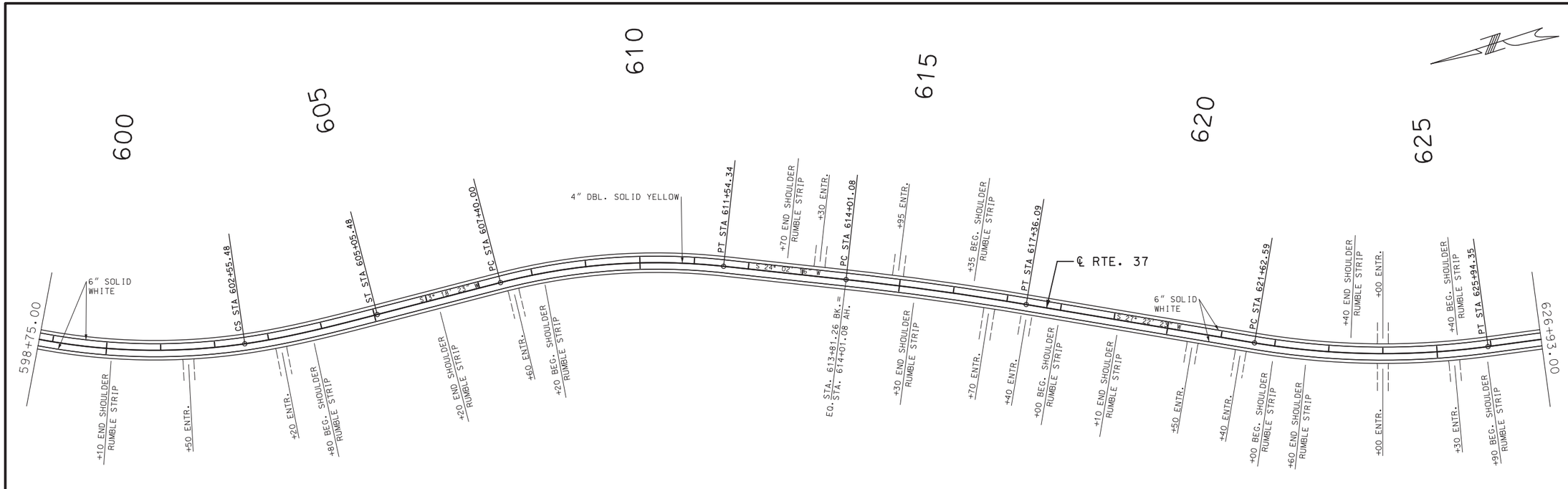
DATE PREPARED 3/16/2020
ROUTE 37 | STATE MO
DISTRICT SW | SHEET NO. 23
COUNTY BARRY
JOB NO. J7P3120
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.



ALIGNMENT FOR CONSTRUCTION PURPOSES ONLY
ALIGNMENT FROM OLD PLANS

NOTE:
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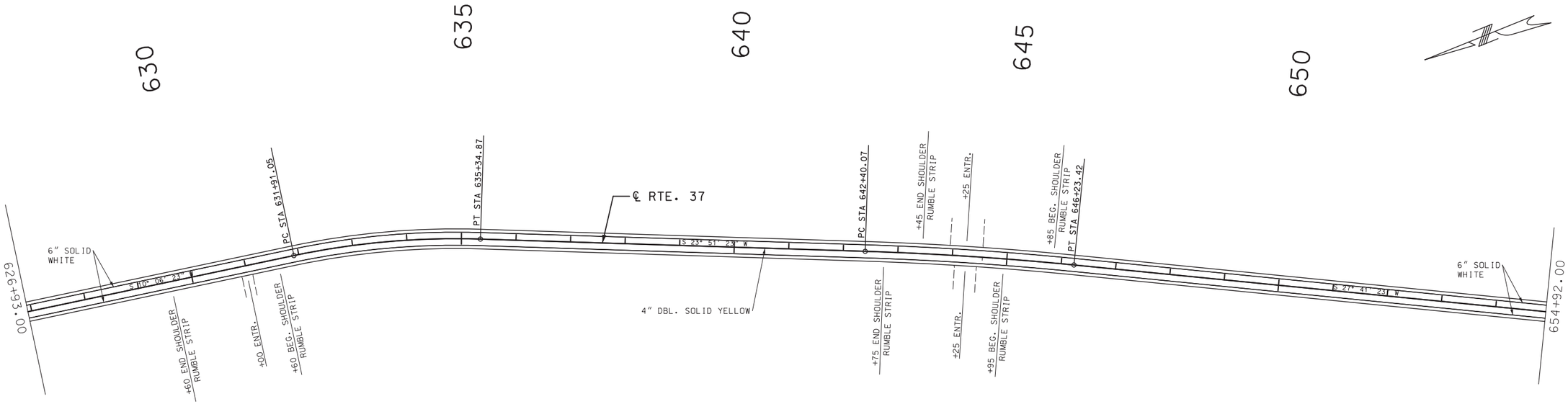


SCALE
0 100 200 300 400 500

SPECIAL SHEET
SHEET 21 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

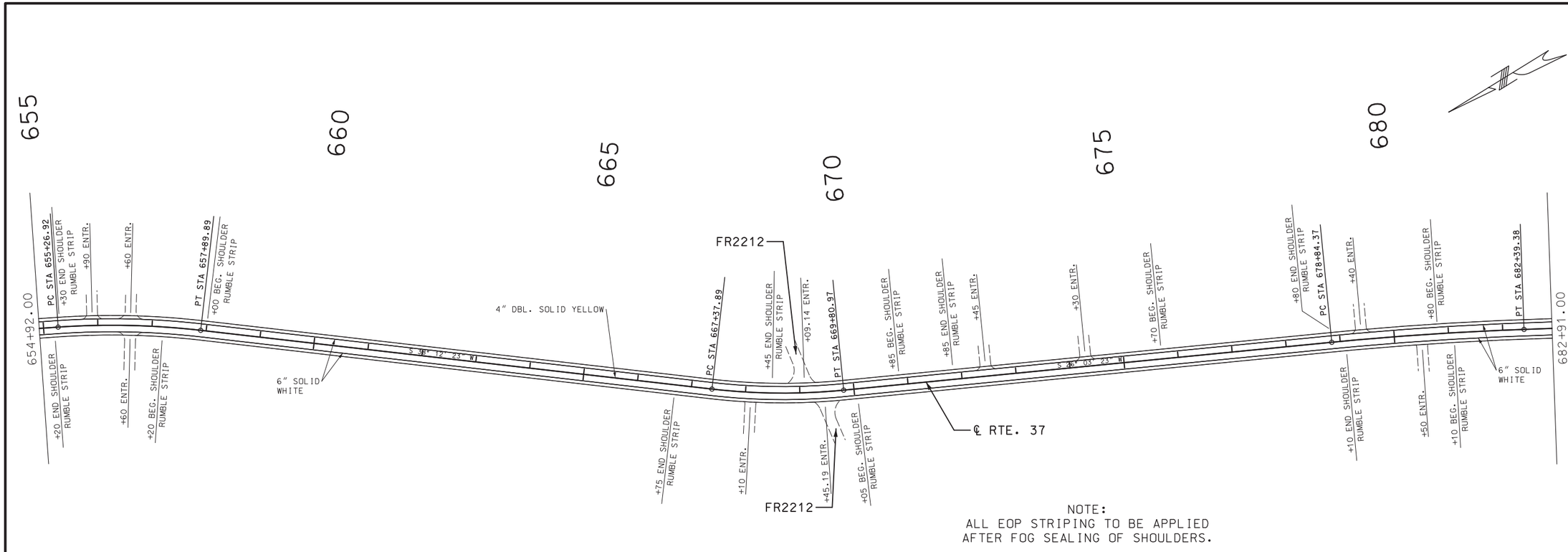
DATE PREPARED	
3/16/2020	
ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	24
COUNTY	
BARRY	
JOB NO.	
J7P3120	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.



NOTE:
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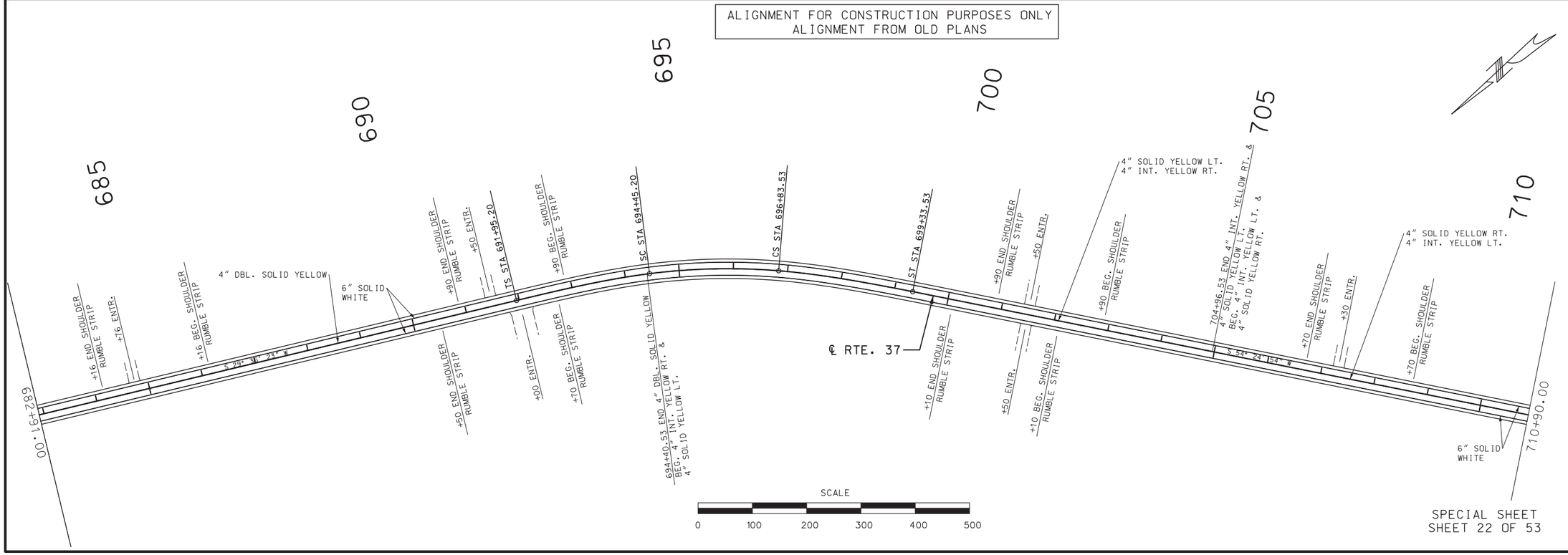
ALIGNMENT FOR CONSTRUCTION PURPOSES ONLY
ALIGNMENT FROM OLD PLANS



SPECIAL SHEET
SHEET 22 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
3/16/2020	
ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	25

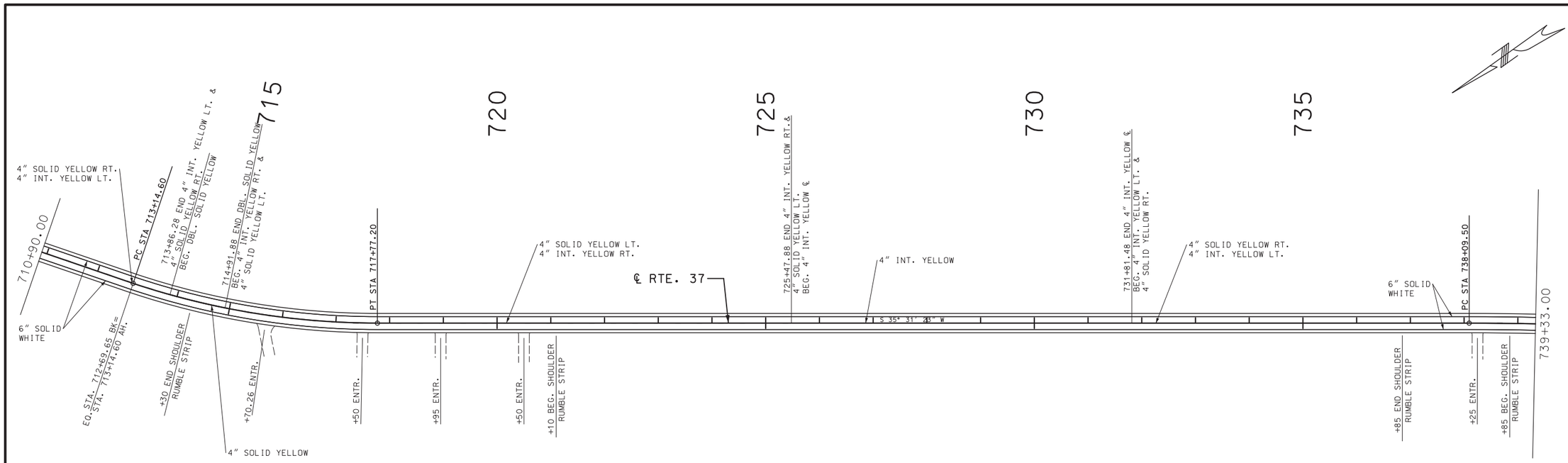
COUNTY
BARRY
JOB NO.
J7P3120
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.



ALIGNMENT FOR CONSTRUCTION PURPOSES ONLY
ALIGNMENT FROM OLD PLANS

NOTE:
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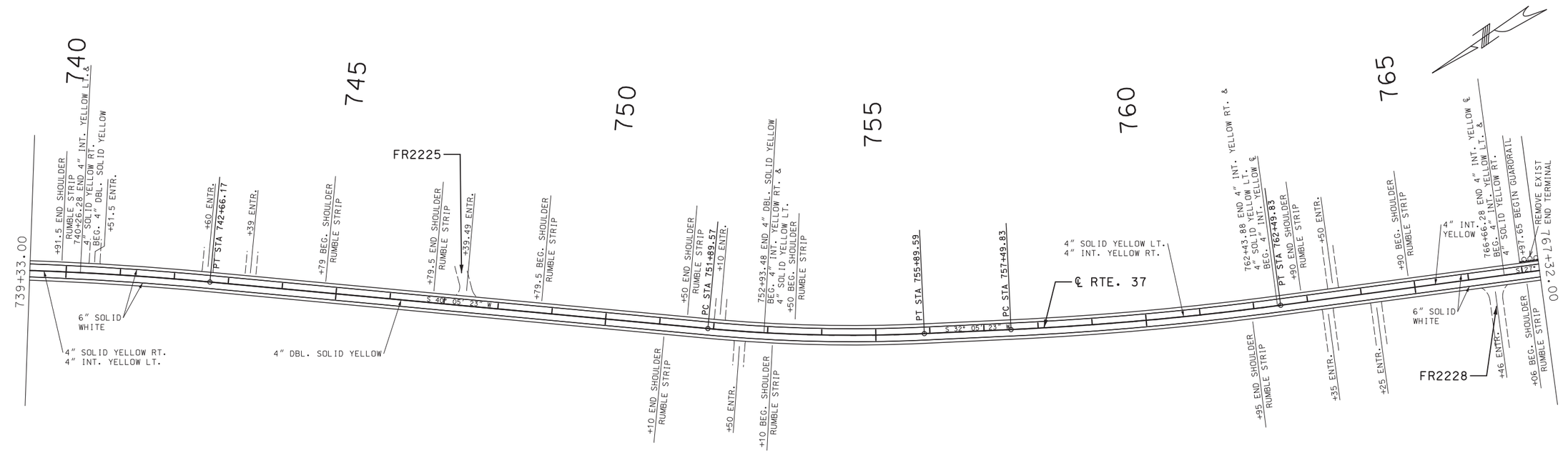
AFTER FOG SEALING OF SHOULDERS.



SCALE
0 100 200 300 400 500

SPECIAL SHEET
SHEET 23 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	26

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.



ALIGNMENT FOR CONSTRUCTION PURPOSES ONLY
ALIGNMENT FROM OLD PLANS

NOTE:
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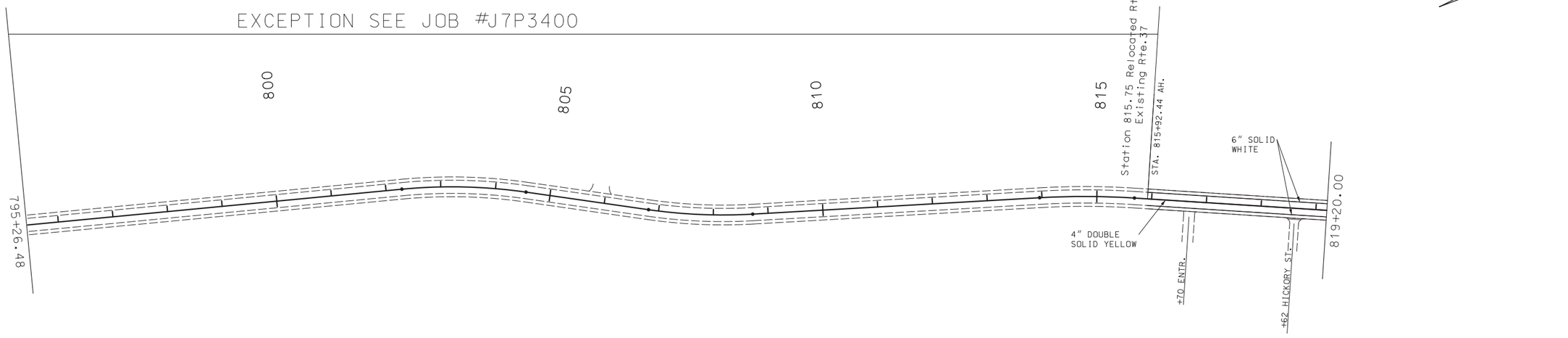


SCALE
0 100 200 300 400 500

SPECIAL SHEET
SHEET 24 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	27

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

PROJECT NO.

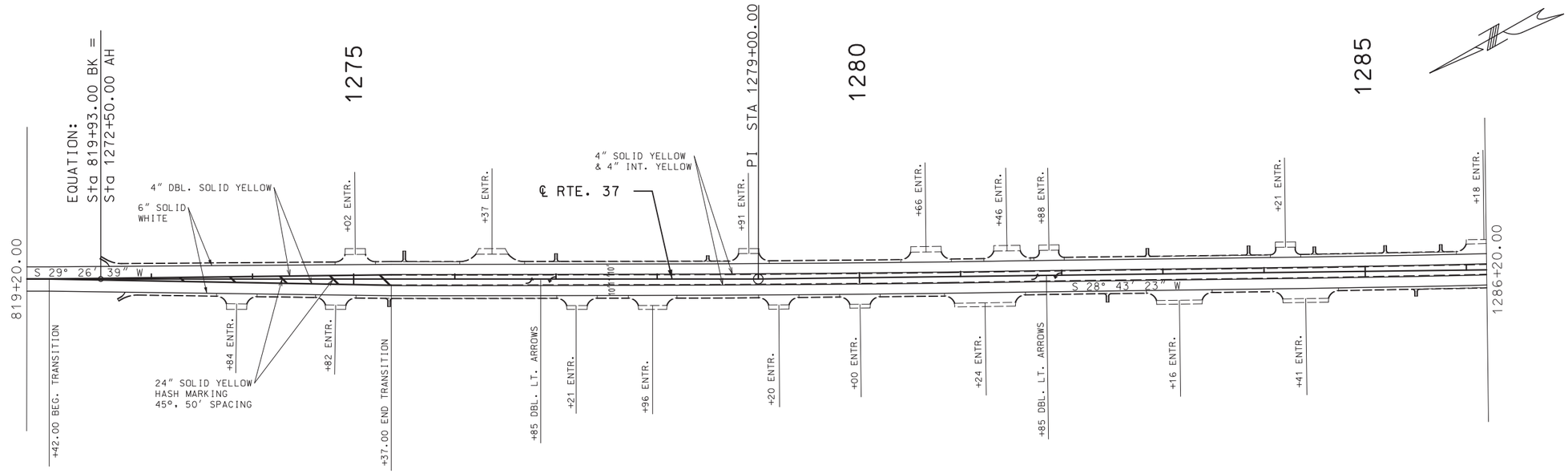
BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



ALIGNMENT FOR CONSTRUCTION PURPOSES ONLY
ALIGNMENT FROM OLD PLANS

NOTE:
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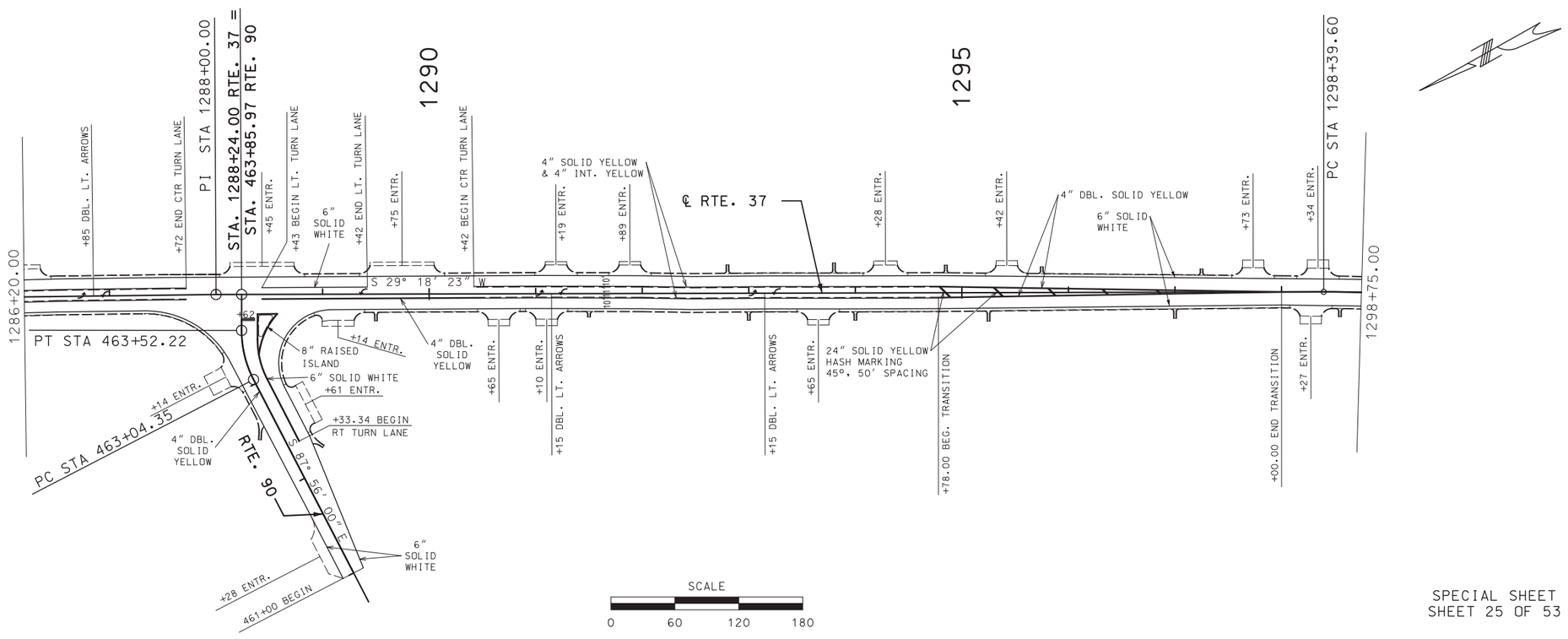
AFTER FOG SEALING OF SHOULDERS.



SCALE
0 60 120 180

SPECIAL SHEET
SHEET 25 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
3/16/2020	
ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	28
COUNTY	
BARRY	
JOB NO.	
J7P3120	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

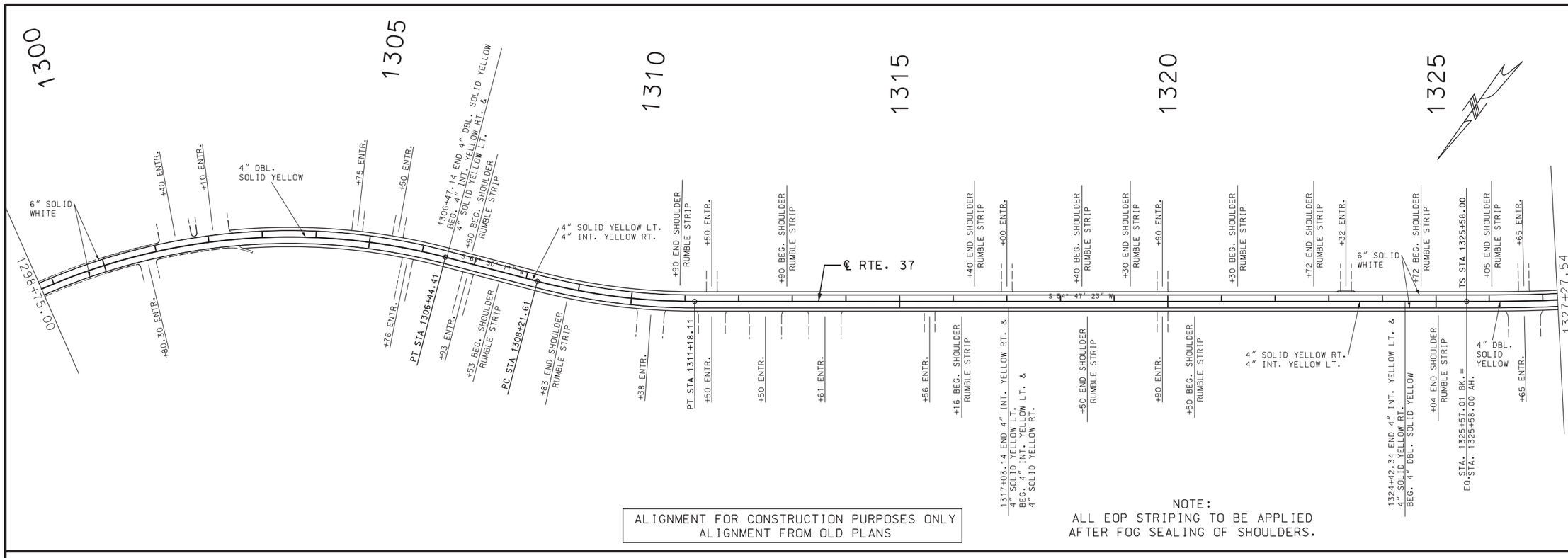
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.



ALIGNMENT FOR CONSTRUCTION PURPOSES ONLY
ALIGNMENT FROM OLD PLANS

NOTE:
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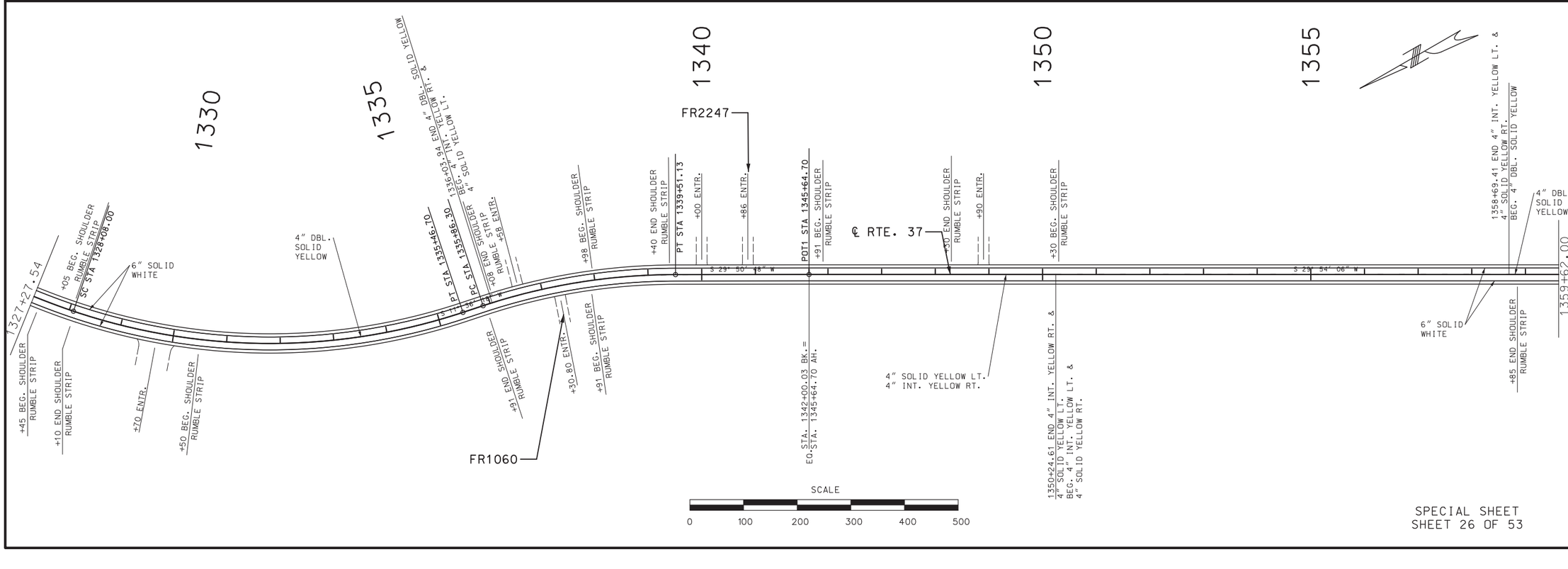
AFTER FOG SEALING OF SHOULDERS.



SCALE
0 100 200 300 400 500

SPECIAL SHEET
SHEET 26 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	29

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

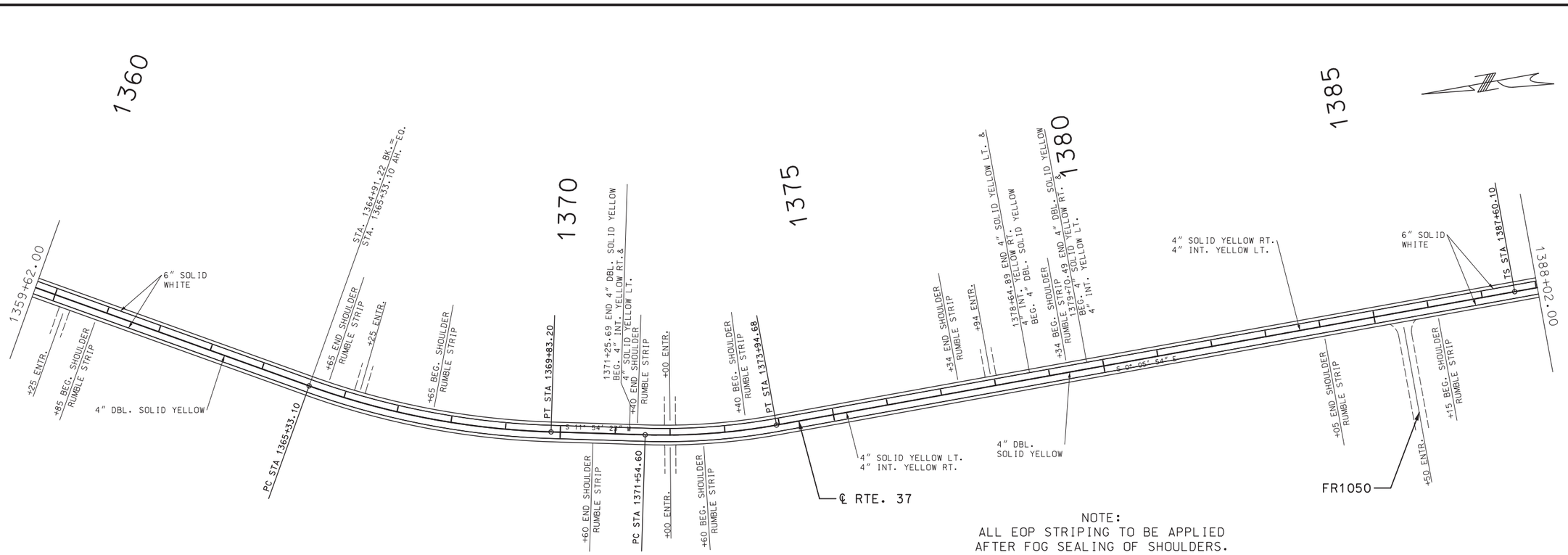
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.



NOTE:
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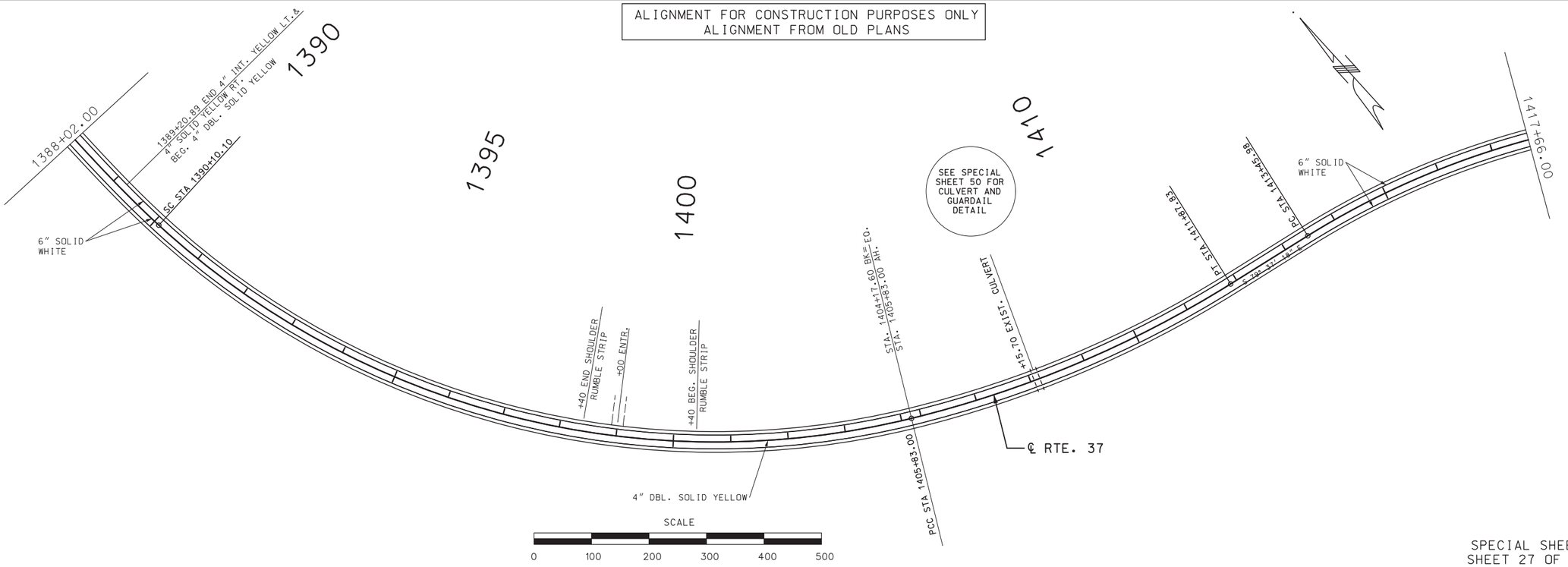
ALIGNMENT FOR CONSTRUCTION PURPOSES ONLY
ALIGNMENT FROM OLD PLANS



SPECIAL SHEET
SHEET 27 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	30

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

PROJECT NO.

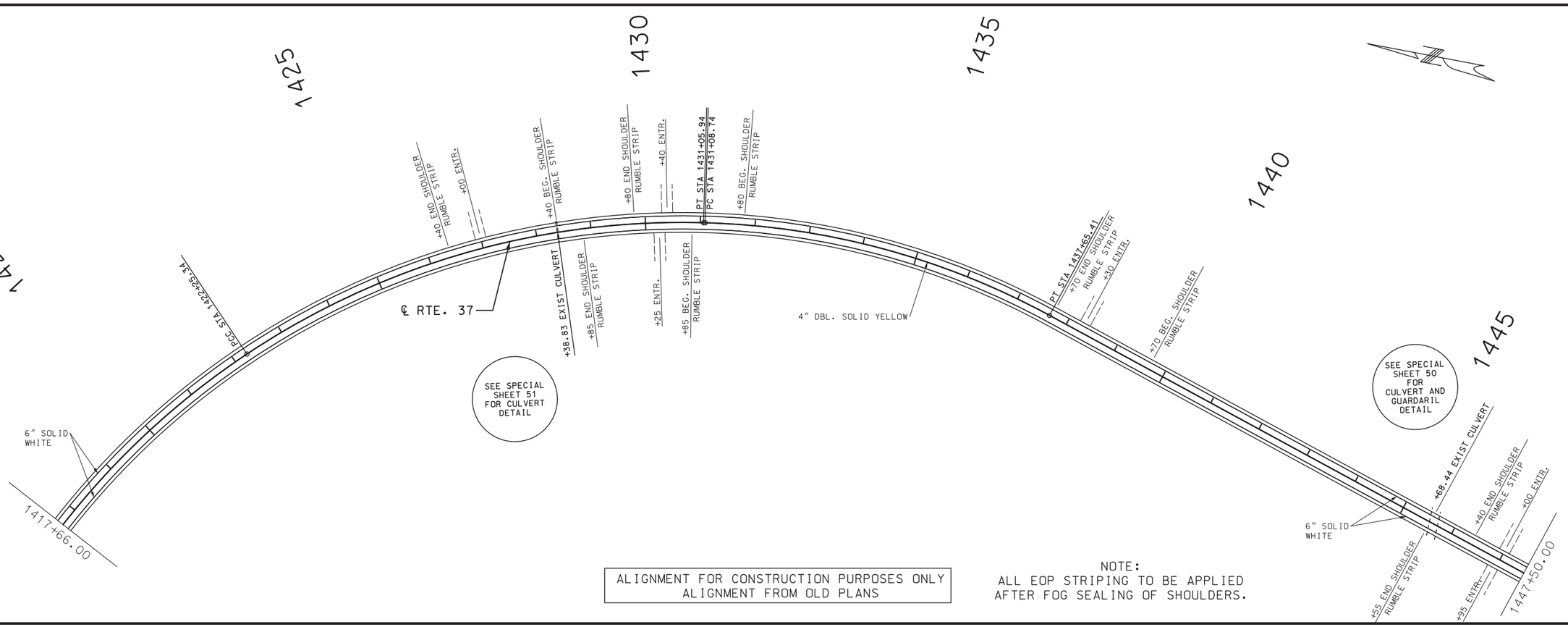
BRIDGE NO.

DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.



ALIGNMENT FOR CONSTRUCTION PURPOSES ONLY
ALIGNMENT FROM OLD PLANS

NOTE:
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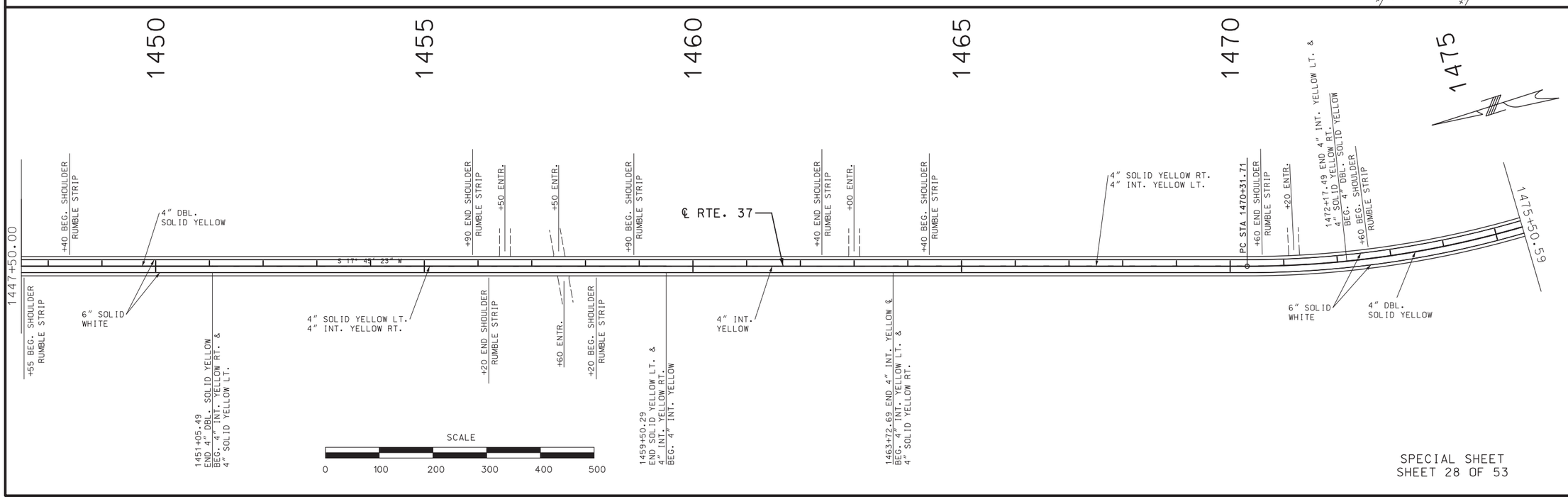
AFTER FOG SEALING OF SHOULDERS.



SPECIAL SHEET
SHEET 28 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
3/16/2020	
ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	31
COUNTY	
BARRY	
JOB NO.	
J7P3120	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

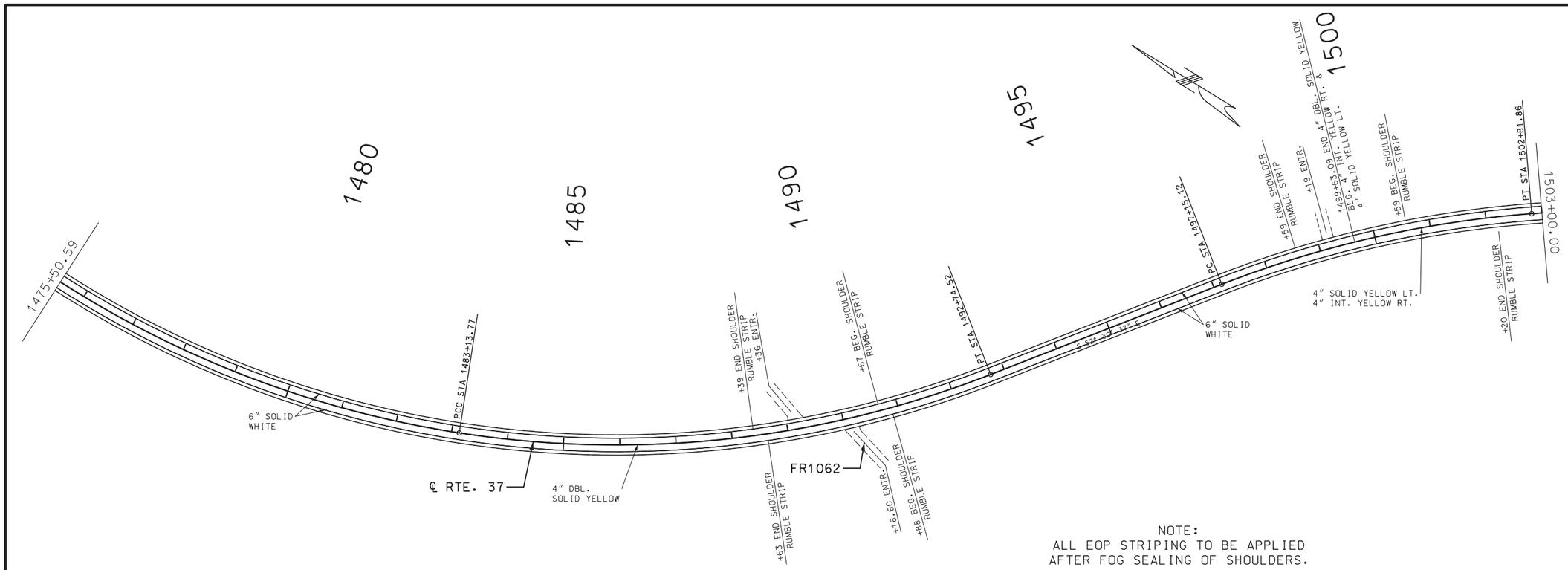
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.



NOTE:
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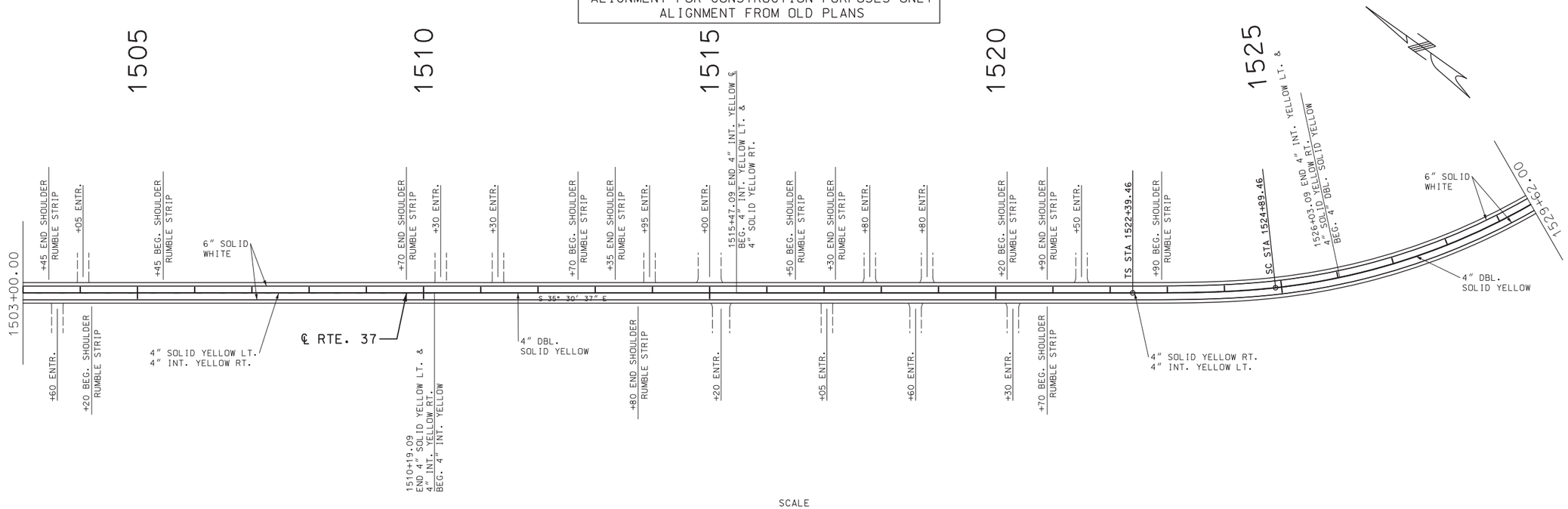
AFTER FOG SEALING OF SHOULDERS.

ALIGNMENT FOR CONSTRUCTION PURPOSES ONLY
ALIGNMENT FROM OLD PLANS



SCALE
0 100 200 300 400 500

SPECIAL SHEET
SHEET 29 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	32

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

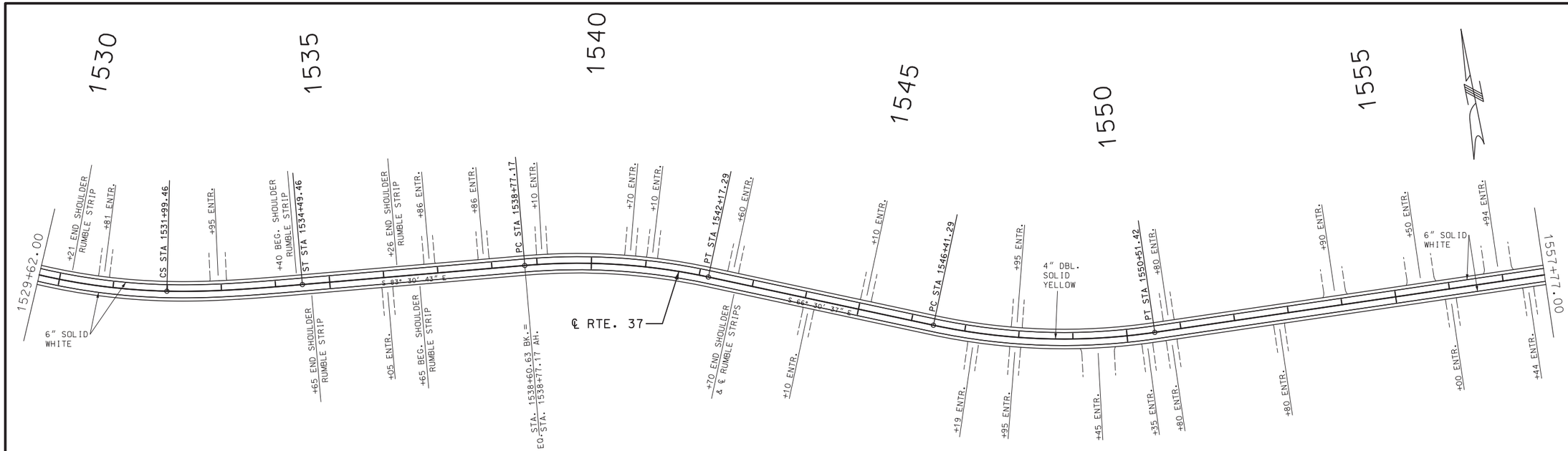
PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



NOTE:
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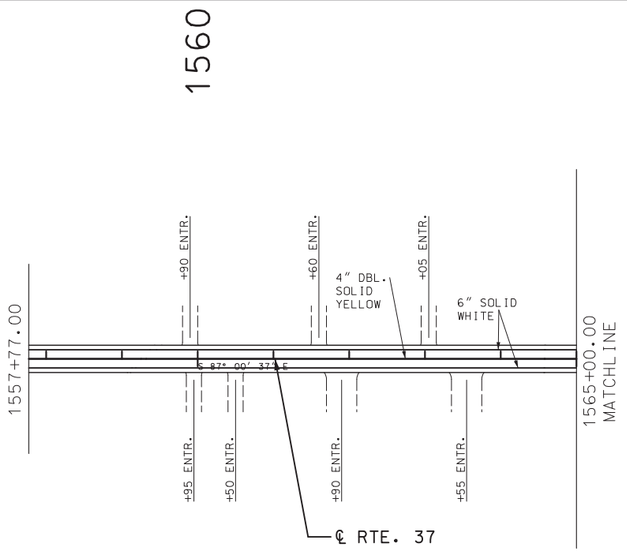
ALIGNMENT FOR CONSTRUCTION PURPOSES ONLY
ALIGNMENT FROM OLD PLANS



SCALE
0 100 200 300 400 500

SPECIAL SHEET
SHEET 30 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	33

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

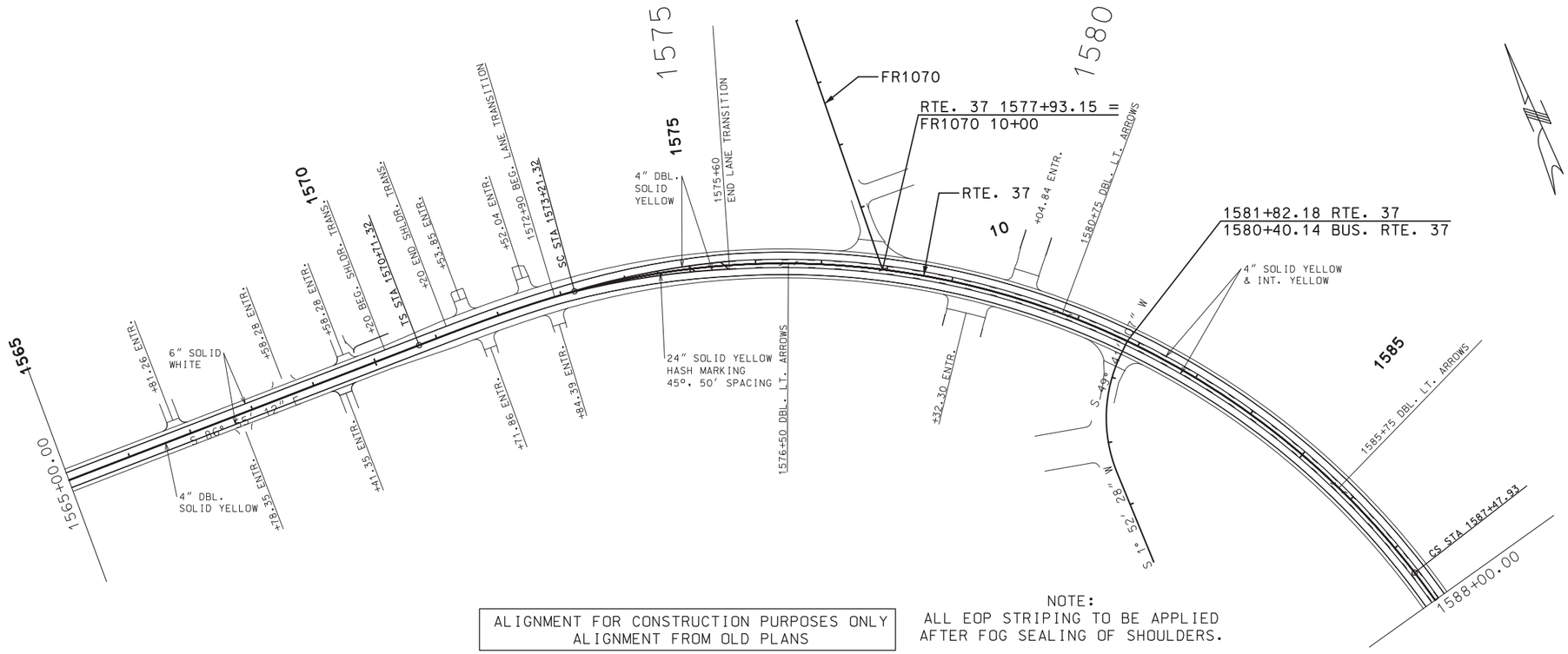
PROJECT NO.

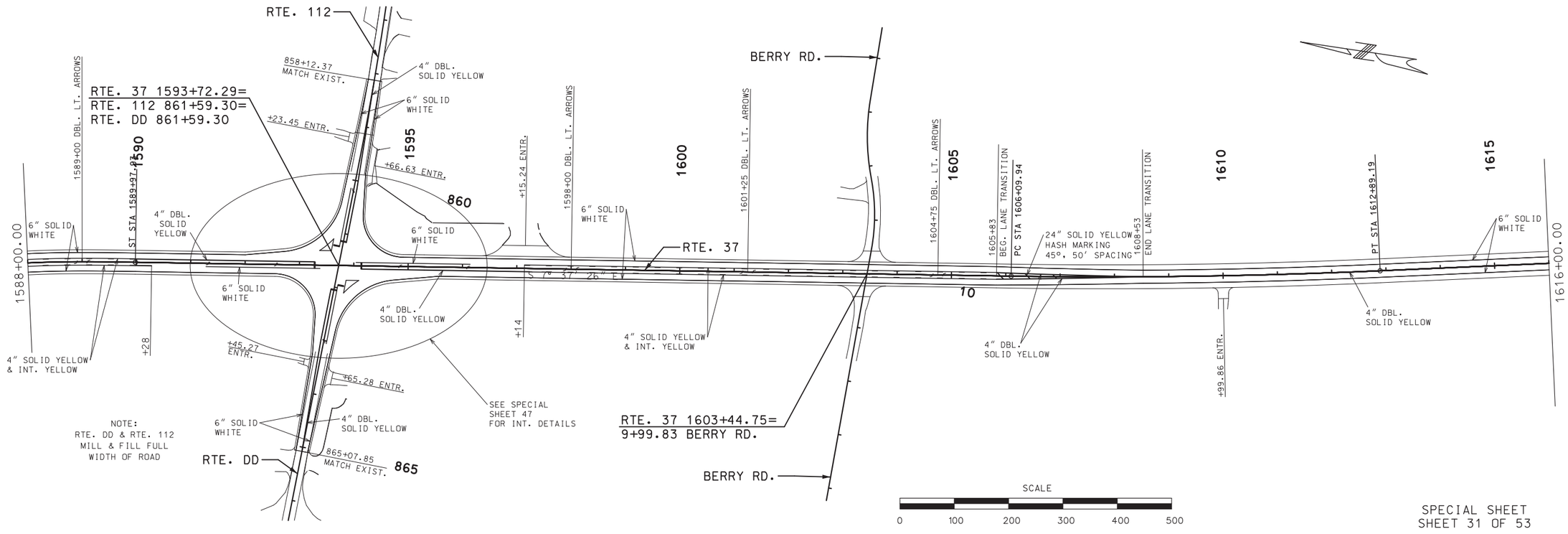
BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)





SPECIAL SHEET
SHEET 31 OF 53

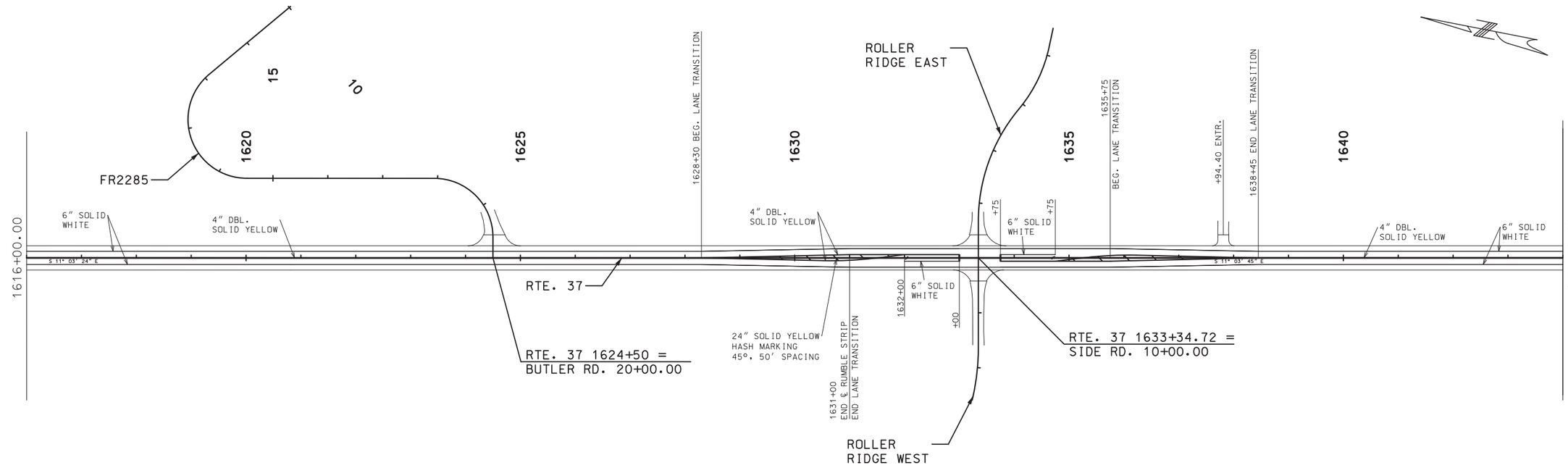
STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	3/16/2020
ROUTE	37
STATE	MO
DISTRICT	SW
SHEET NO.	34
COUNTY	BARRY
JOB NO.	J7P3120
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

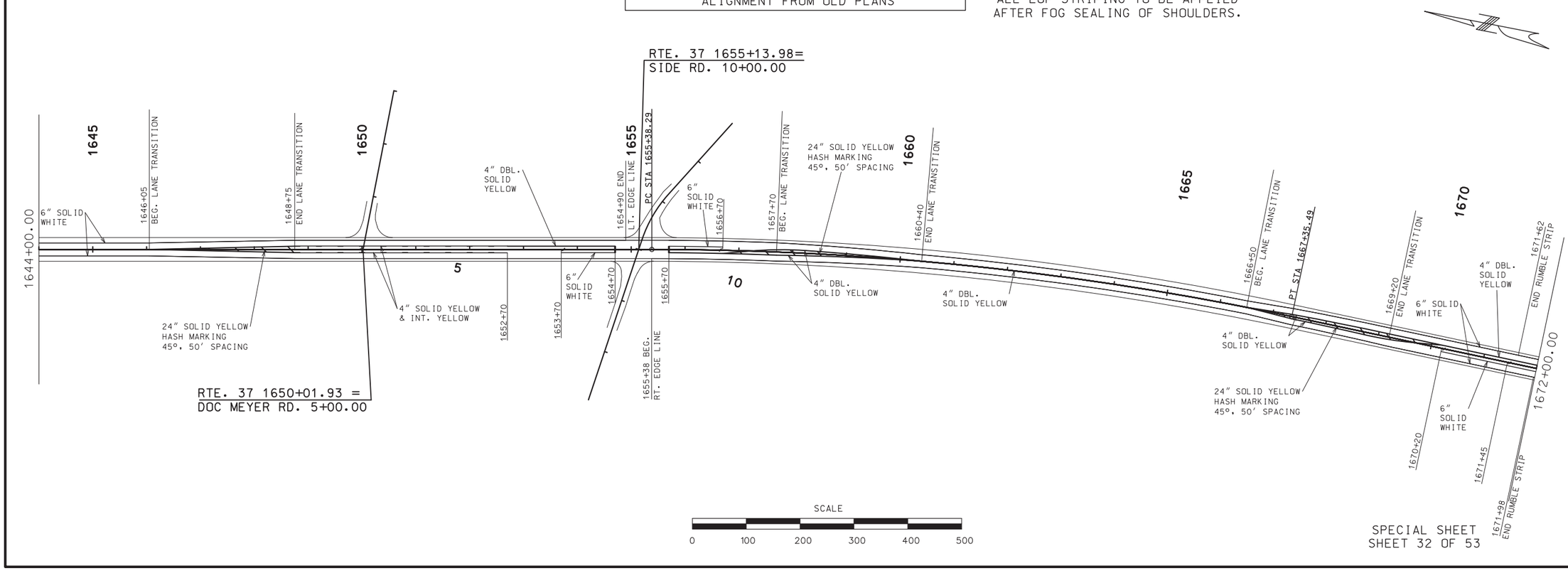
REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



ALIGNMENT FOR CONSTRUCTION PURPOSES ONLY
ALIGNMENT FROM OLD PLANS

NOTE:
ALL EOP STRIPING TO BE APPLIED
AFTER FOG SEALING OF SHOULDERS.



SCALE
0 100 200 300 400 500

SPECIAL SHEET
SHEET 32 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
3/16/2020	
ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	35
COUNTY	
BARRY	
JOB NO.	
J7P3120	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

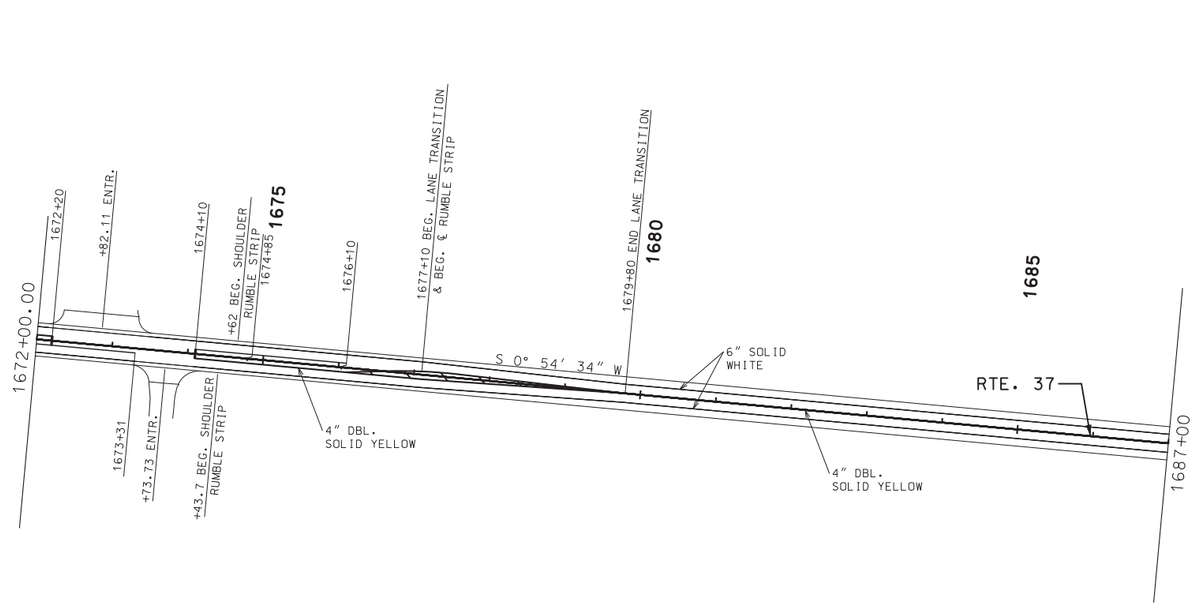
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

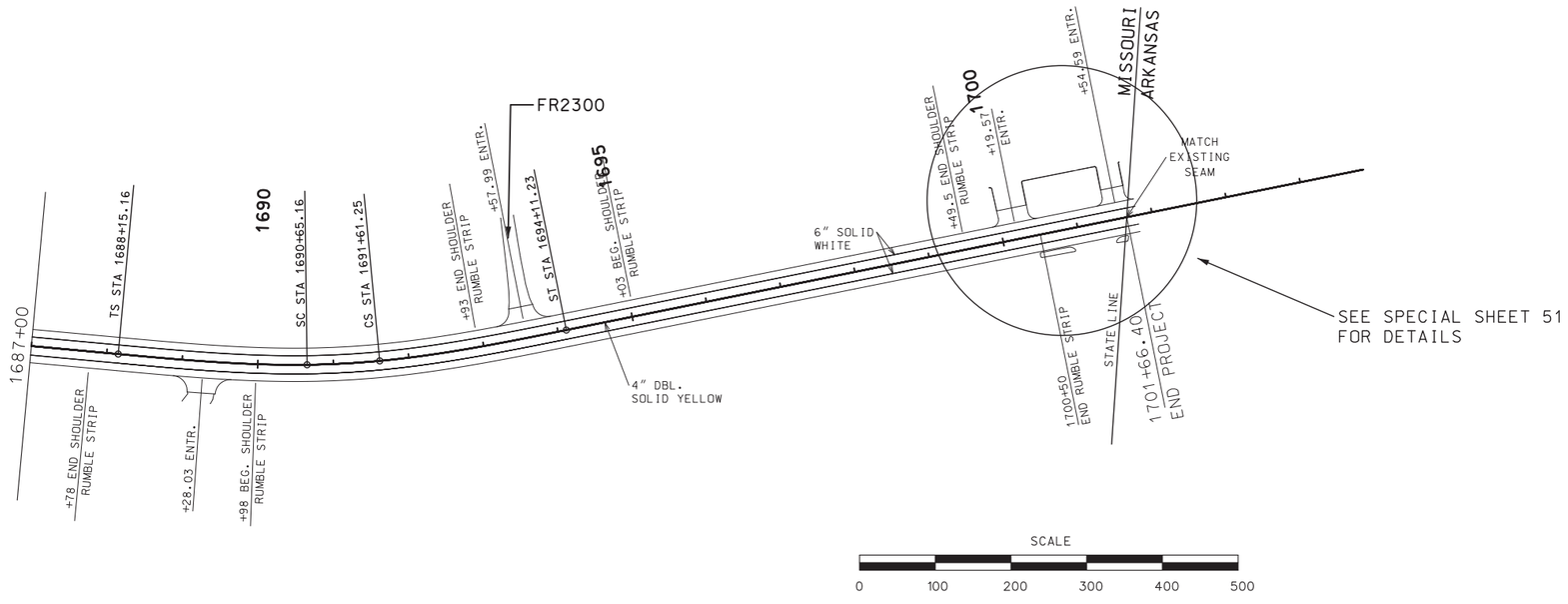
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.



ALIGNMENT FOR CONSTRUCTION PURPOSES ONLY
ALIGNMENT FROM OLD PLANS

NOTE:
ALL EOP STRIPING TO BE APPLIED
AFTER FOG SEALING OF SHOULDERS.



SCALE
0 100 200 300 400 500

SPECIAL SHEET
SHEET 33 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	36

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

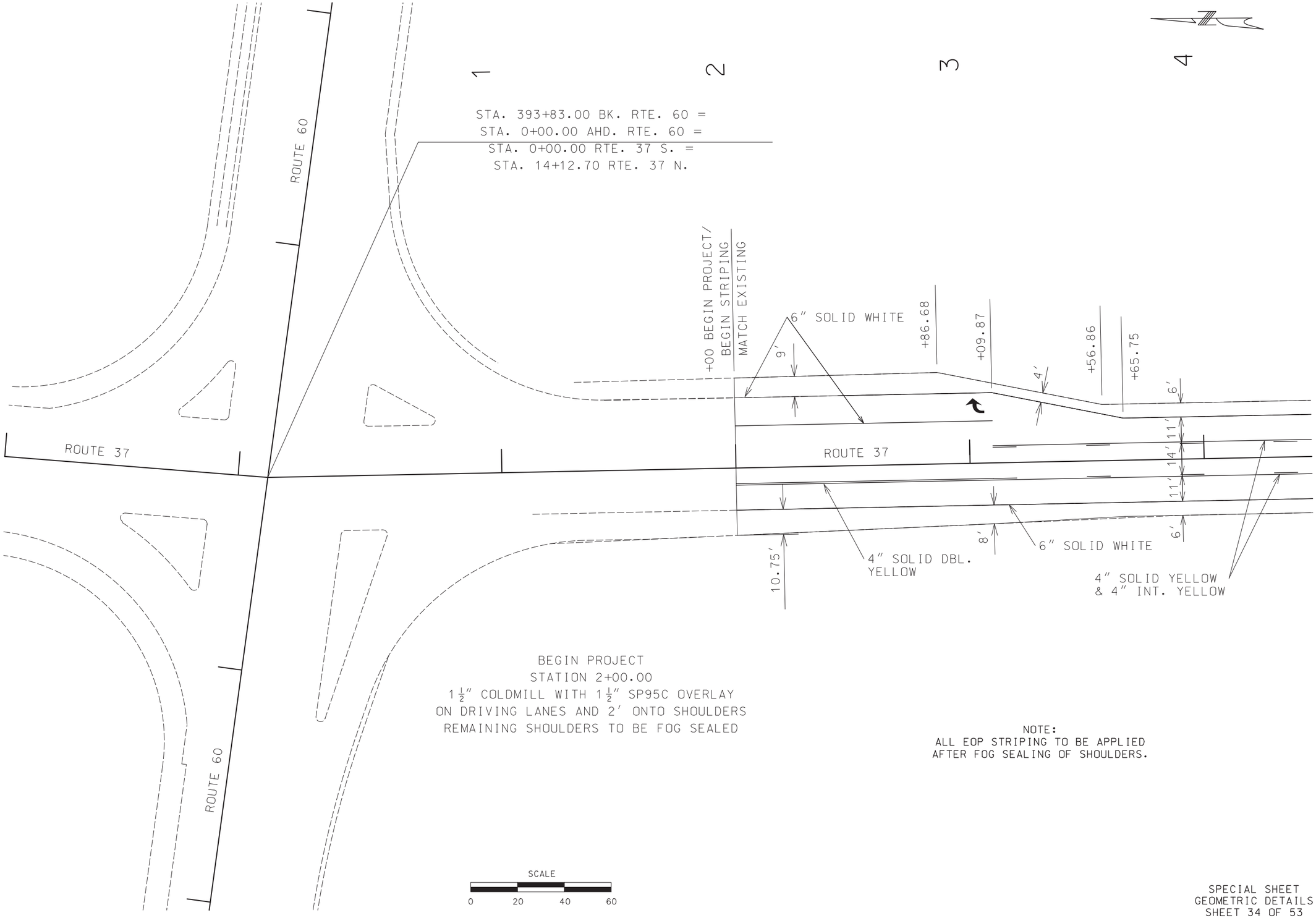
DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.



SPECIAL SHEET
GEOMETRIC DETAILS
SHEET 34 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	37

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

PROJECT NO.

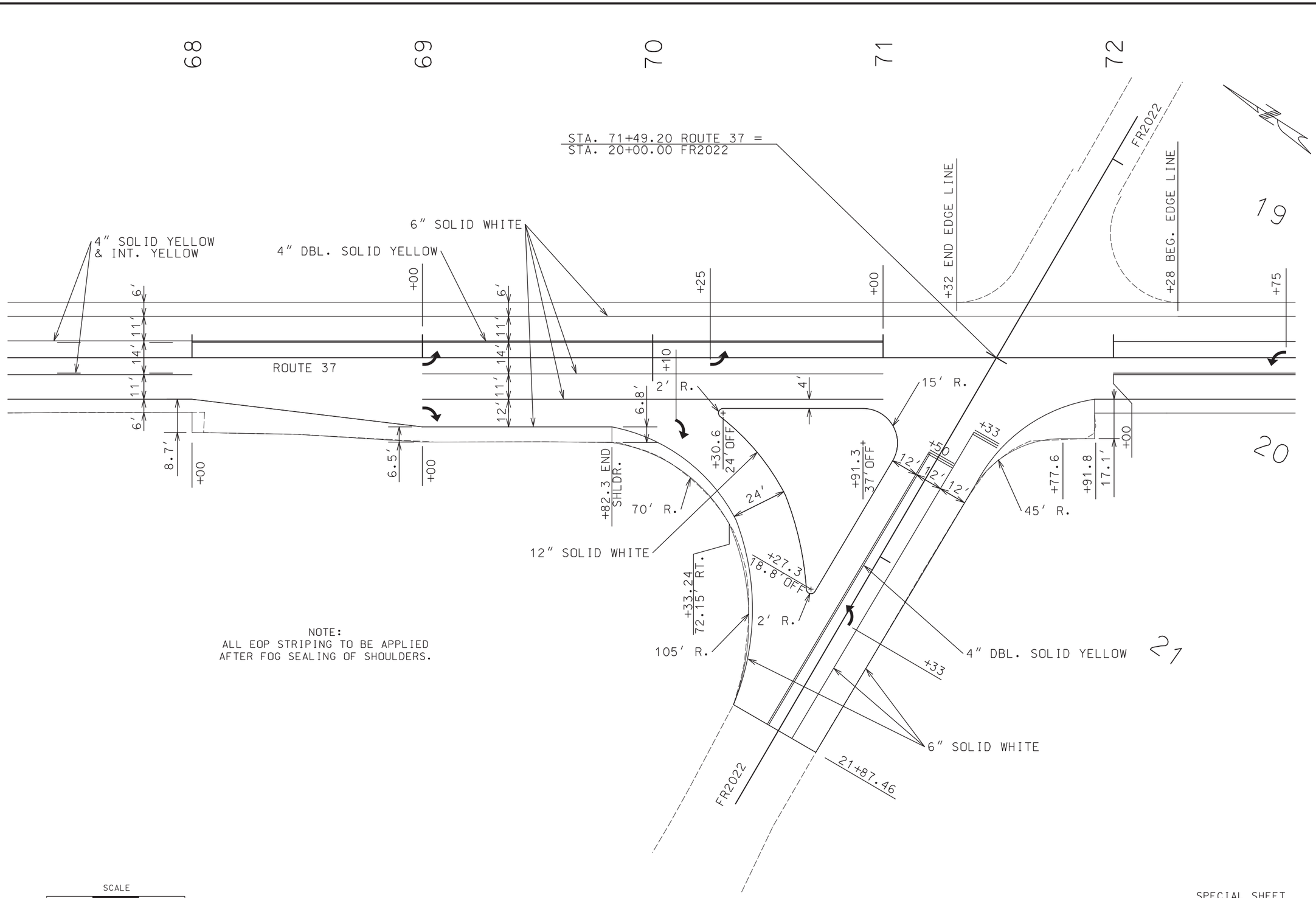
BRIDGE NO.

REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



NOTE:
ALL EOP STRIPING TO BE APPLIED
AFTER FOG SEALING OF SHOULDERS.

SCALE
0 20 40 60

SPECIAL SHEET
GEOMETRIC DETAILS
SHEET 35 OF 53

KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
STATE OF MISSOURI
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

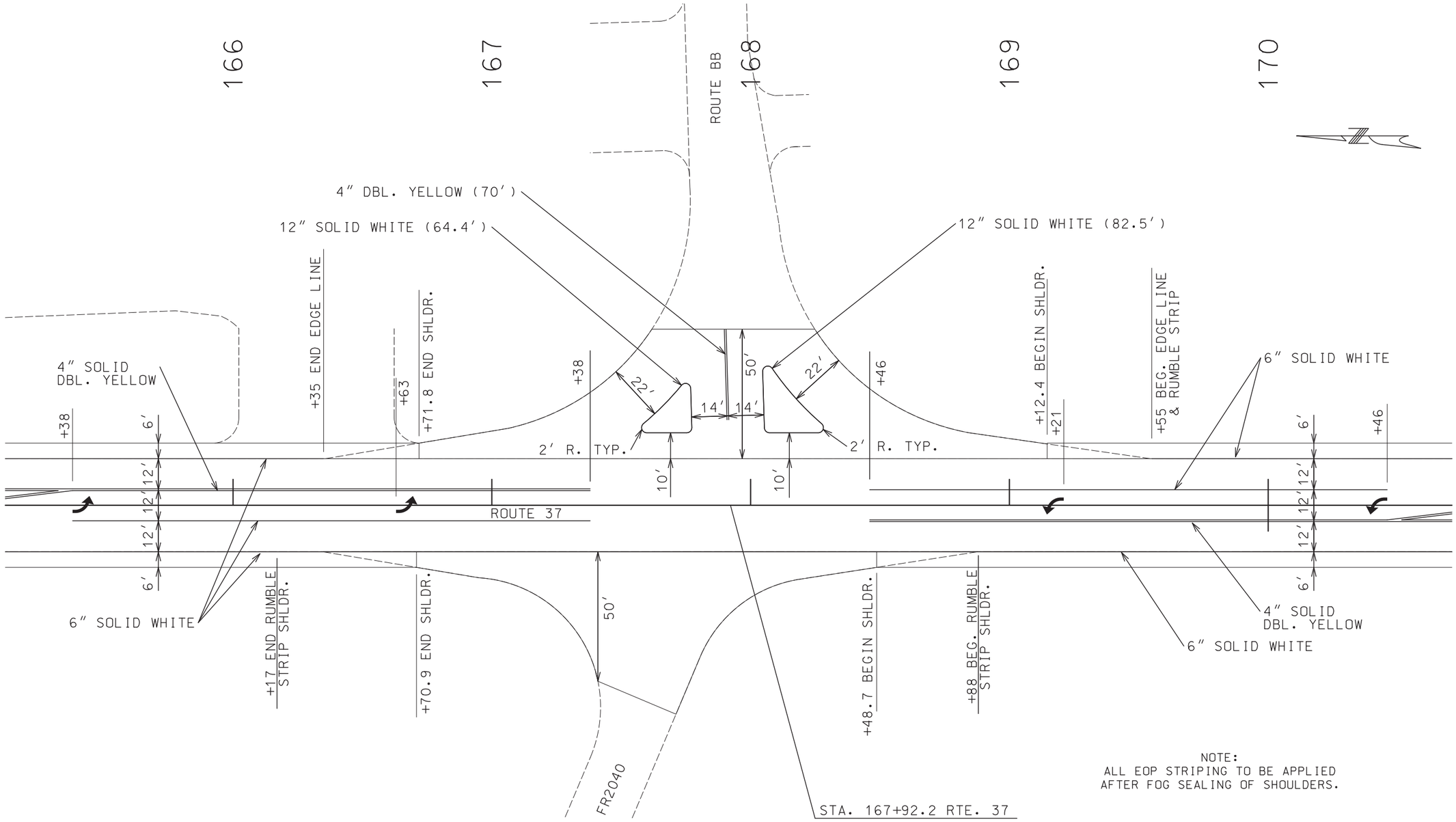
DATE PREPARED: 3/16/2020
ROUTE: 37 | STATE: MO
DISTRICT: SW | SHEET NO.: 38
COUNTY: BARRY
JOB NO.: J7P3120
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.



NOTE:
ALL EOP STRIPING TO BE APPLIED
AFTER FOG SEALING OF SHOULDERS.

SPECIAL SHEET
GEOMETRIC DETAILS
SHEET 36 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
3/16/2020	
ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	39
COUNTY	
BARRY	
JOB NO.	
J7P3120	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

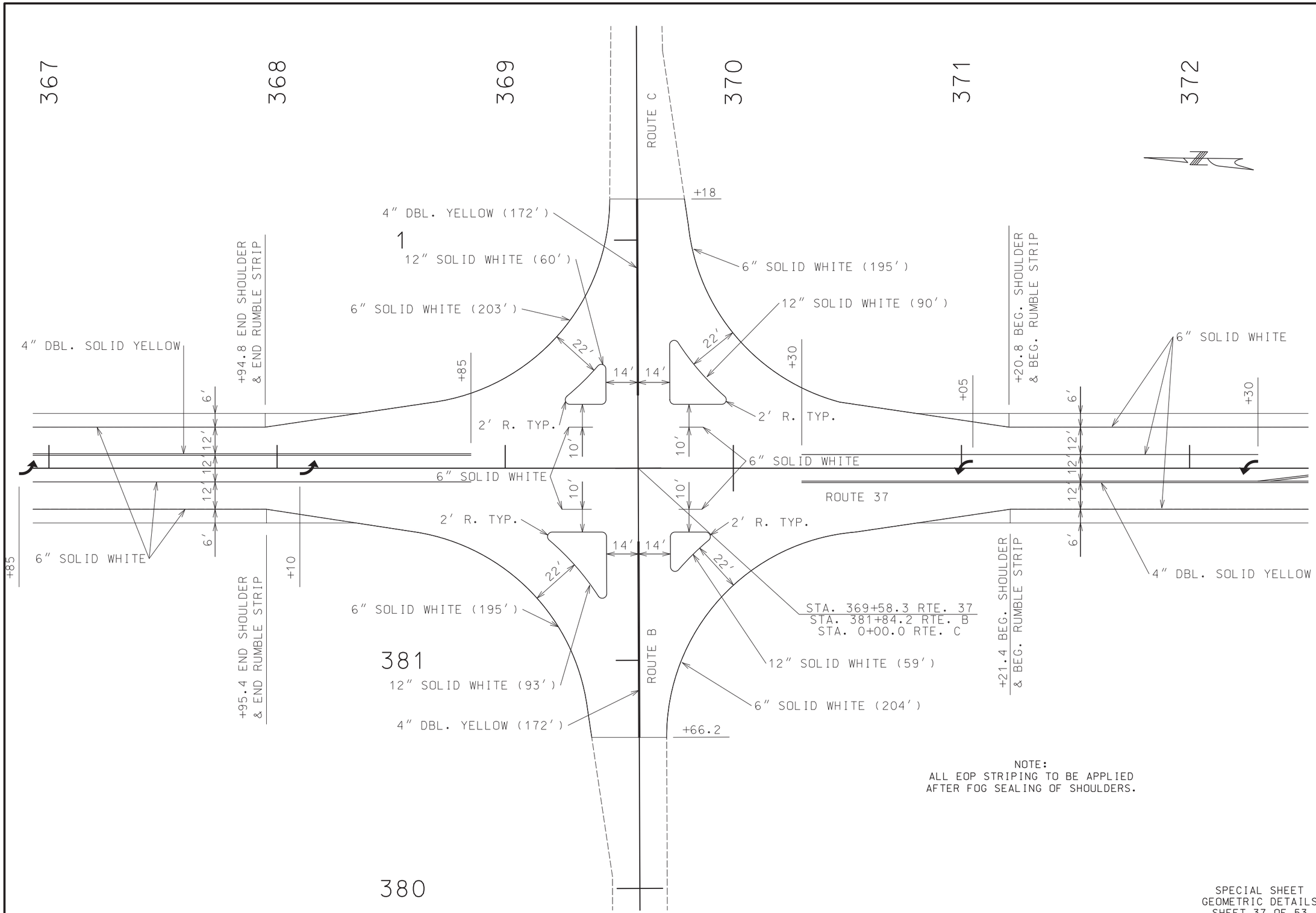
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.



NOTE:
ALL EOP STRIPING TO BE APPLIED
AFTER FOG SEALING OF SHOULDERS.

SPECIAL SHEET
GEOMETRIC DETAILS
SHEET 37 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	40

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.

509

510

511

512

513

STA. 511+01.20 ROUTE 37 =
STA. 445+27.80 ROUTE HH

6" SOLID WHITE

+34.9

6" SOLID WHITE

+38.9

+13.9

+38.9

6′

12′

12′

12′

6′

2′ R. TYP.

2′ R. TYP.

10′

10′

2′ R. TYP.

ROUTE 37

5.5′

14′

24′

24′

+35 END LANE
WIDTH TRANSITION

+59.2 END
SHLDR.

6" SOLID
WHITE (131′)

12" SOLID
WHITE (39′)

4" SOLID DBL.
YELLOW (86.25′)

89°25′27"

12" SOLID
WHITE (51′)

+45.5 BEG.
SHLDR.

4" SOLID DBL. YELLOW

6" SOLID
WHITE (131′)

444+08.75

ROUTE HH

444

NOTE:
ALL EOP STRIPING TO BE APPLIED
AFTER FOG SEALING OF SHOULDERS.

SPECIAL SHEET
GEOMETRIC DETAILS
SHEET 38 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	41

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

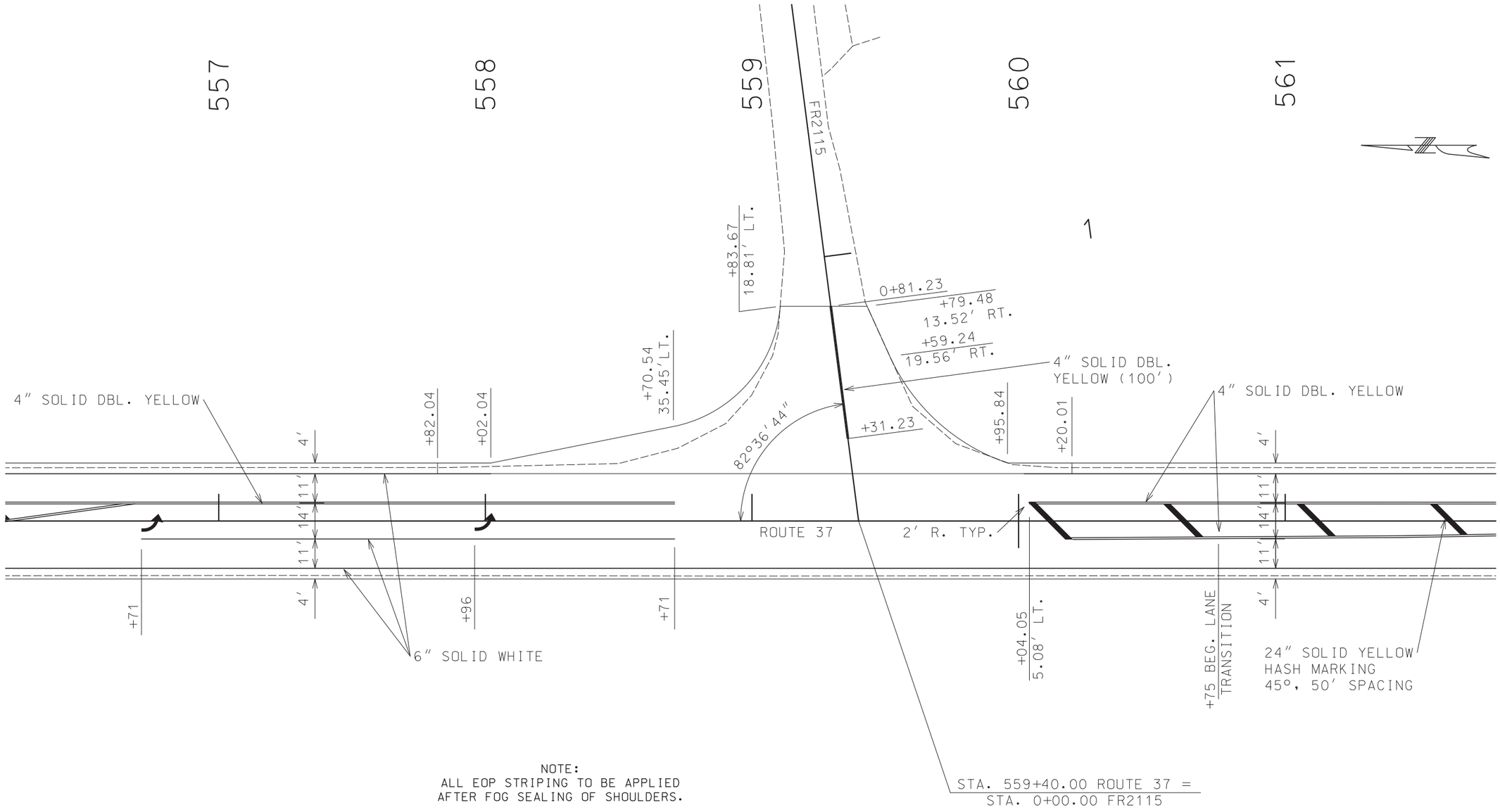
DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.



NOTE:
ALL EOP STRIPING TO BE APPLIED
AFTER FOG SEALING OF SHOULDERS.

SPECIAL SHEET
GEOMETRIC DETAILS
SHEET 39 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	42

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

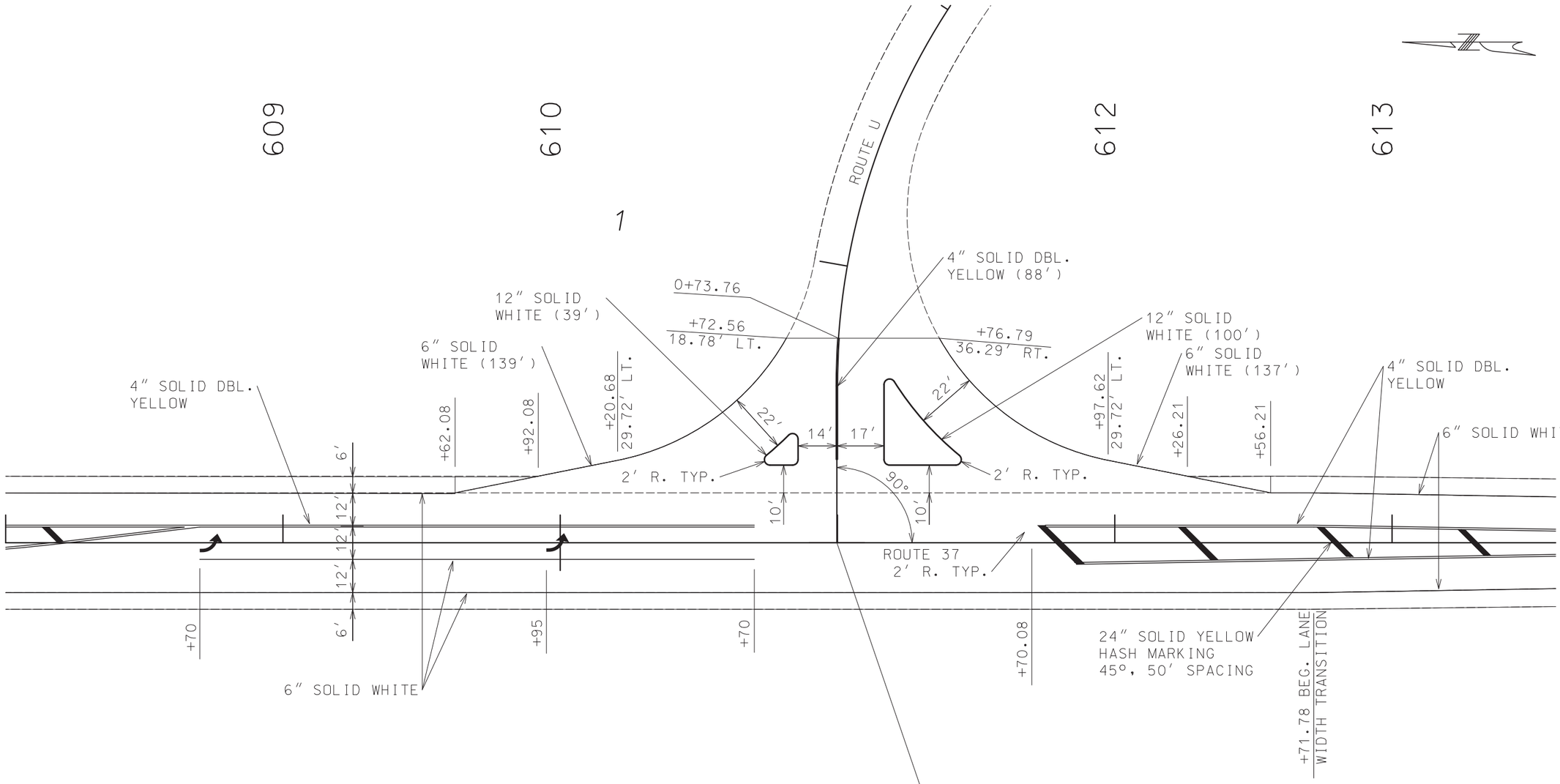
DATE	DESCRIPTION

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.



NOTE:
ALL EOP STRIPING TO BE APPLIED
AFTER FOG SEALING OF SHOULDERS.

SPECIAL SHEET
GEOMETRIC DETAILS
SHEET 40 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	43

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

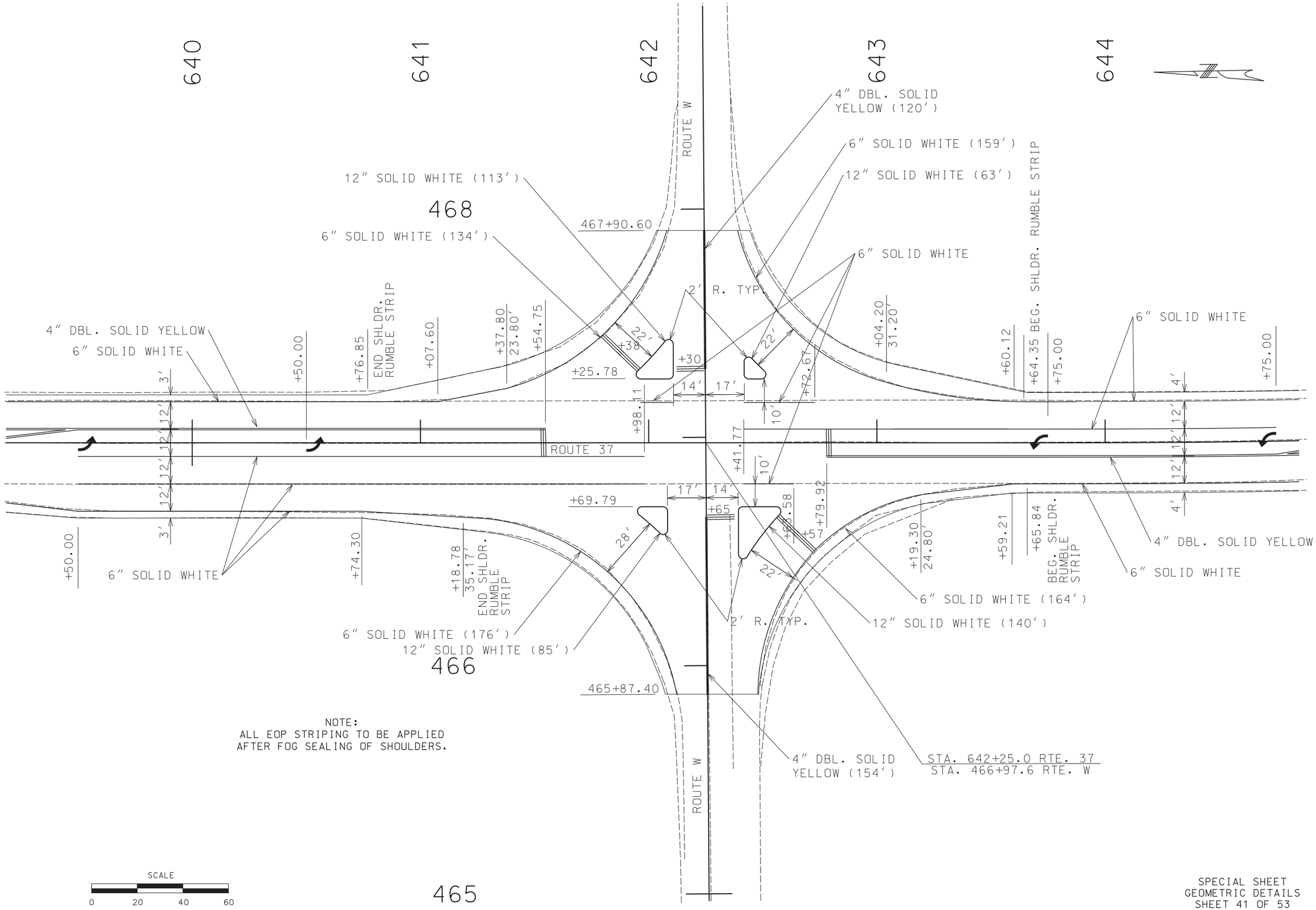
DATE

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



NOTE:
ALL EOP STRIPING TO BE APPLIED
AFTER FOG SEALING OF SHOULDERS.

SPECIAL SHEET
GEOMETRIC DETAILS
SHEET 41 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/18/2020	
ROUTE 37	STATE MO
DISTRICT SW	SHEET NO. 44
COUNTY BARRY	
JOB NO. J7P3120	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

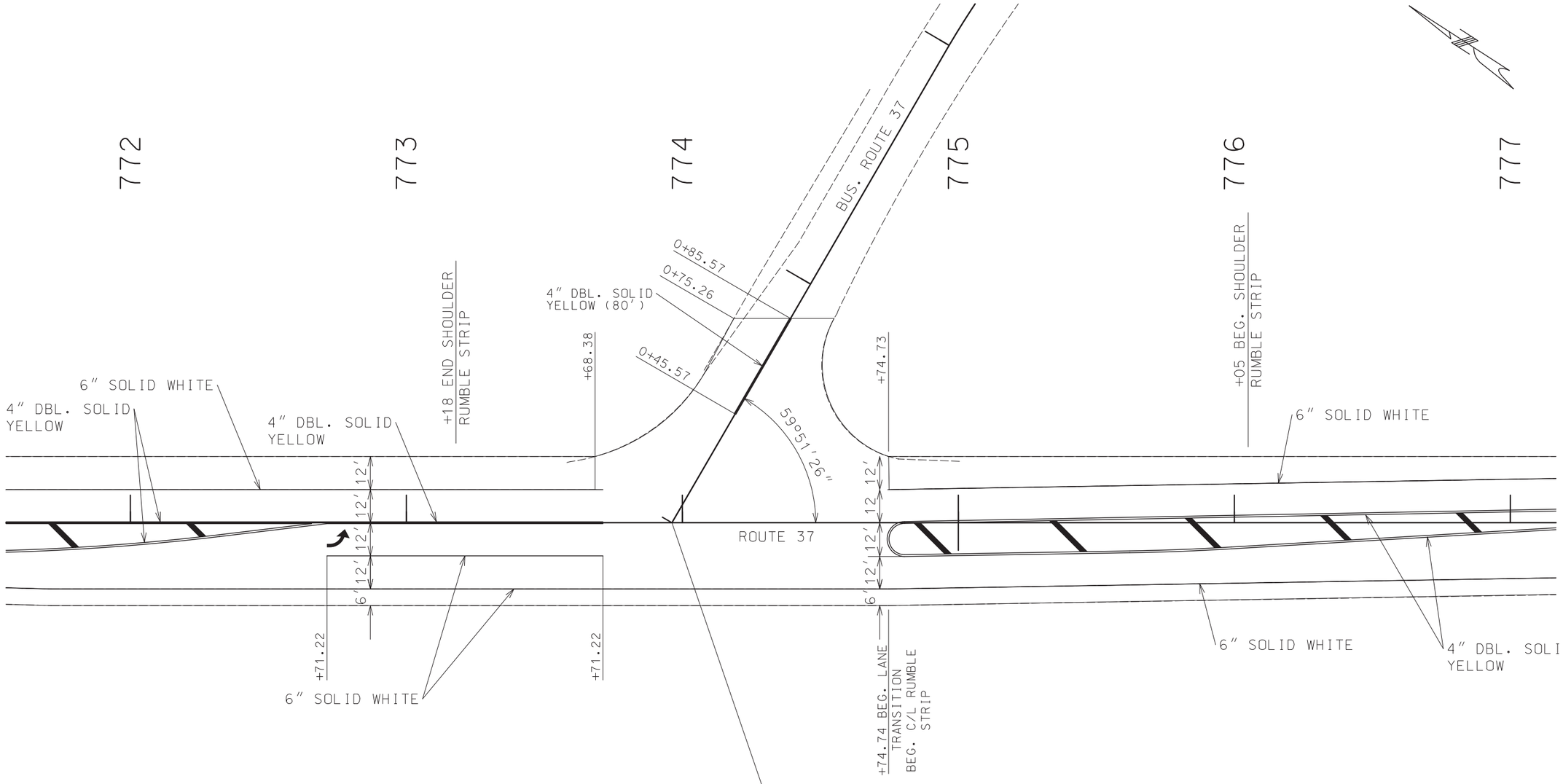
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.



NOTE:
ALL EOP STRIPING TO BE APPLIED
AFTER FOG SEALING OF SHOULDERS.

SCALE
0 20 40 60

SPECIAL SHEET
GEOMETRIC DETAILS
SHEET 42 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/16/2020
ROUTE 37 | STATE MO
DISTRICT SW | SHEET NO. 45
COUNTY BARRY
JOB NO. J7P3120
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

912

913

914

EXETER RD.

915

916

917

6" SOLID WHITE (190')

12" SOLID WHITE (106')

6" SOLID WHITE (145')

6" SOLID WHITE (58.5')

4" DBL. SOLID YELLOW (87.6')

21+00

21

6" SOLID WHITE (254')

6" SOLID WHITE (148')

12" SOLID WHITE (73')

+84.33
42' LT.

+12.14
34' LT.

6'

32'

+57.23

+56.12

+41.2

+22.25

+67.34

+17.55

+59.44

28'

+03.34

+48.63

+18.32

+29.5

+42.50

+36.31

+42.50

4" DBL. SOLID YELLOW

6" SOLID WHITE

6" SOLID WHITE

6'

12'

12'

12'

12'

12'

12'

6'

ROUTE 37

+10

+20

+81.56

+82.32

+03.07

+67.15

+03.15

+41.62

+42.5

+27.40

+27.41

+24.75

6" SOLID WHITE

6" SOLID WHITE

4" DBL. SOLID YELLOW

26'

30'

+54

+43.8

+41.15

+26.32

12'

12'

12'

6'

6'

12" SOLID WHITE (91')

6" SOLID WHITE (136')

6" SOLID WHITE (144')

19+00

19

NOTE:
ALL EOP STRIPING TO BE APPLIED AFTER FOG SEALING OF SHOULDERS.

12" SOLID WHITE (130')

6" SOLID WHITE (205')

6" SOLID WHITE (140')

4" DBL. SOLID YELLOW (88')

6" SOLID WHITE (54')

FR2180

STA. 914+88.3 RTE. 37
STA. 20+00.0 EXETER RD.

NOTE:
INTERSECTION USES VIDEO DETECTION FOR SIGNALS

SCALE

0 20 40 60

SPECIAL SHEET
GEOMETRIC DETAILS
SHEET 43 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

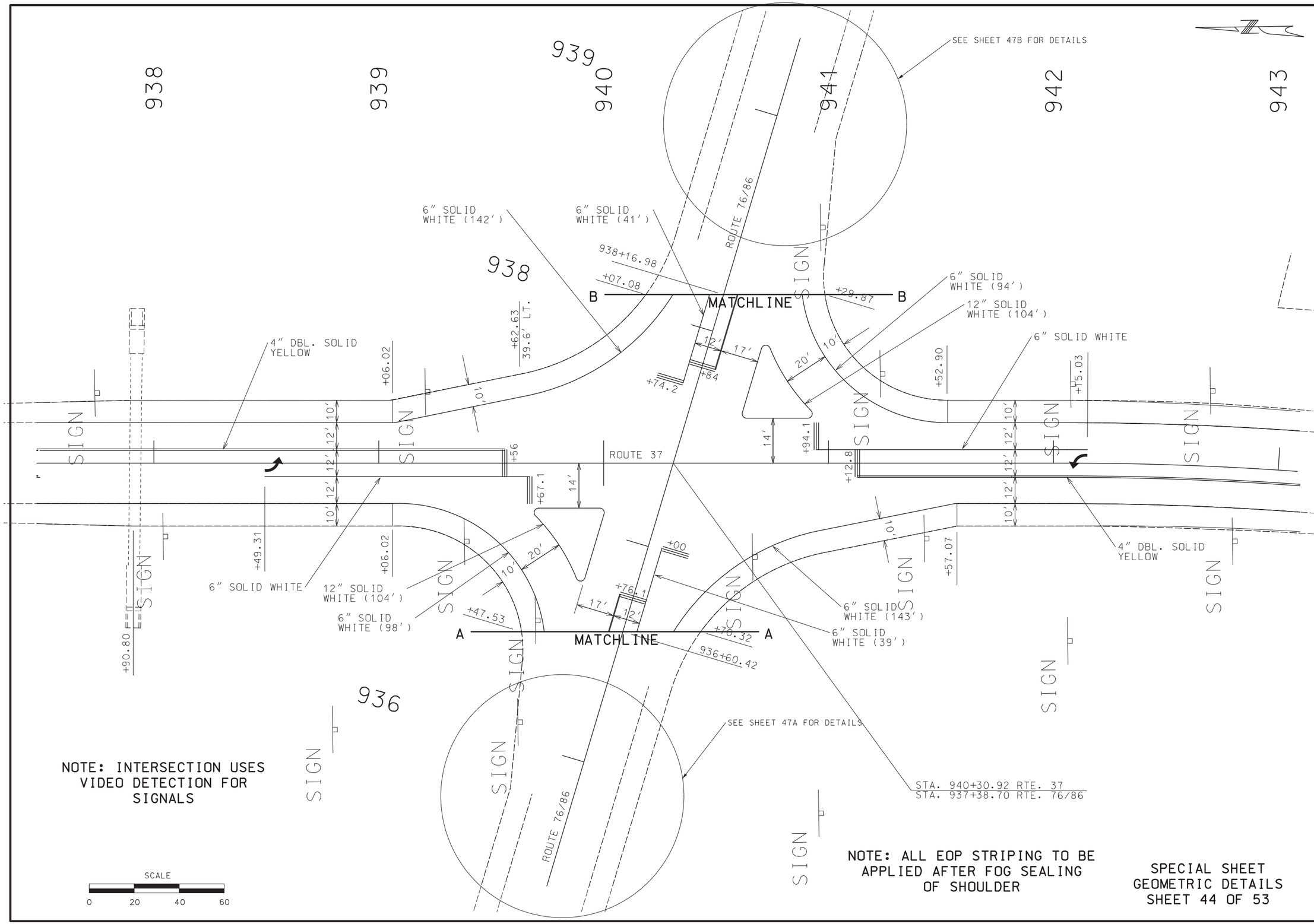
DATE PREPARED	
3/16/2020	
ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	46
COUNTY	
BARRY	
JOB NO.	
J7P3120	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



NOTE: INTERSECTION USES VIDEO DETECTION FOR SIGNALS

NOTE: ALL EOP STRIPING TO BE APPLIED AFTER FOG SEALING OF SHOULDER

SPECIAL SHEET
GEOMETRIC DETAILS
SHEET 44 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/16/2020	
ROUTE 37	STATE MO
DISTRICT SW	SHEET NO. 47
COUNTY BARRY	
JOB NO. J7P3120	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

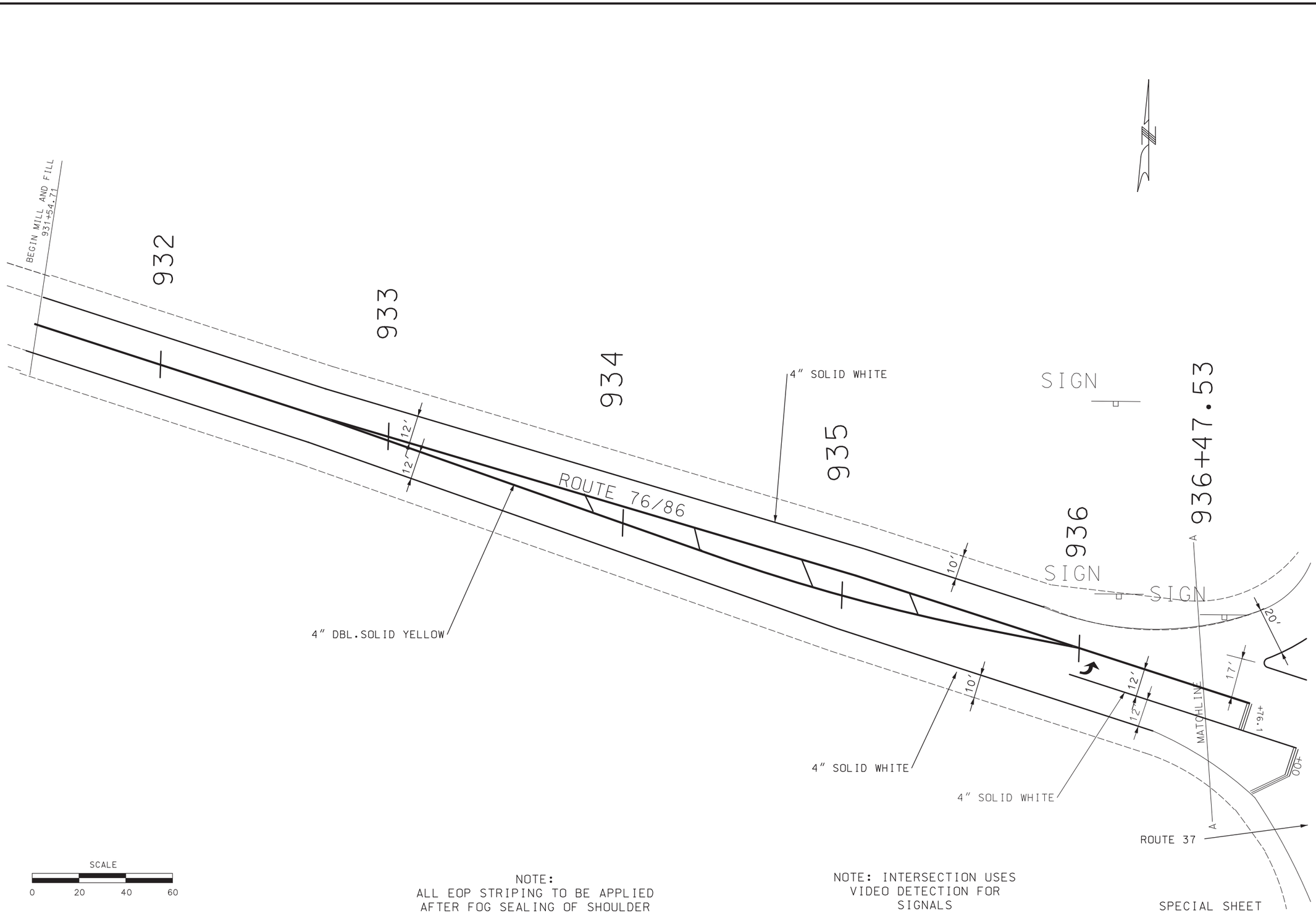
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.



SCALE

0 20 40 60

NOTE:
ALL EOP STRIPING TO BE APPLIED
AFTER FOG SEALING OF SHOULDER

NOTE: INTERSECTION USES
VIDEO DETECTION FOR
SIGNALS

SPECIAL SHEET
GEOMETRIC SHEET
45 OF 53

STATE OF MISSOURI
KRISTI
BACHMAN
NUMBER
PE-2003014941
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/17/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	47A

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

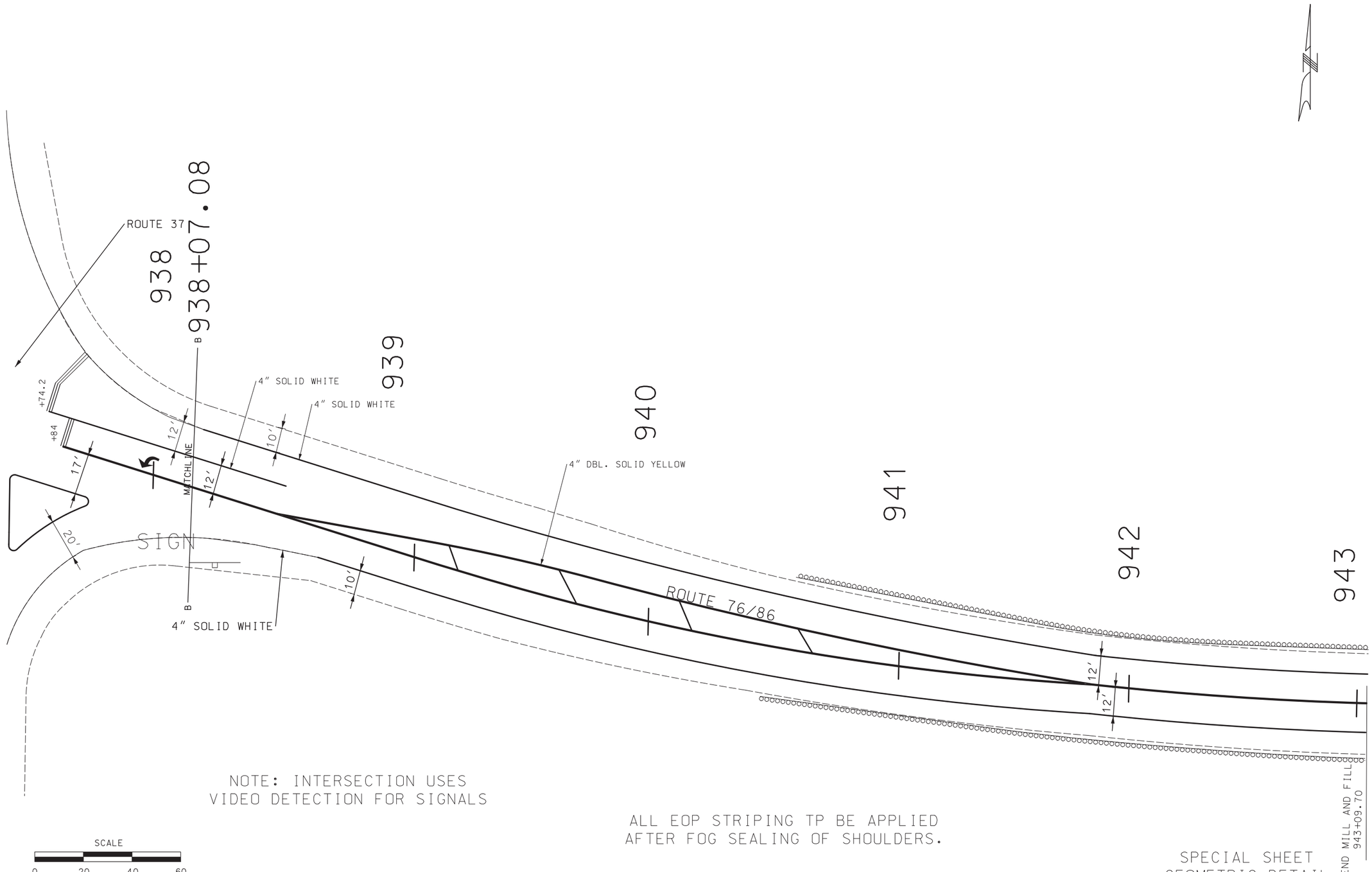
DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.



NOTE: INTERSECTION USES
VIDEO DETECTION FOR SIGNALS

ALL EOP STRIPING TP BE APPLIED
AFTER FOG SEALING OF SHOULDERS.

SPECIAL SHEET
GEOMETRIC DETAIL
SHEET 46 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/17/2020	
ROUTE 37	STATE MO
DISTRICT SW	SHEET NO. 47B
COUNTY BARRY	
JOB NO. J7P3120	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

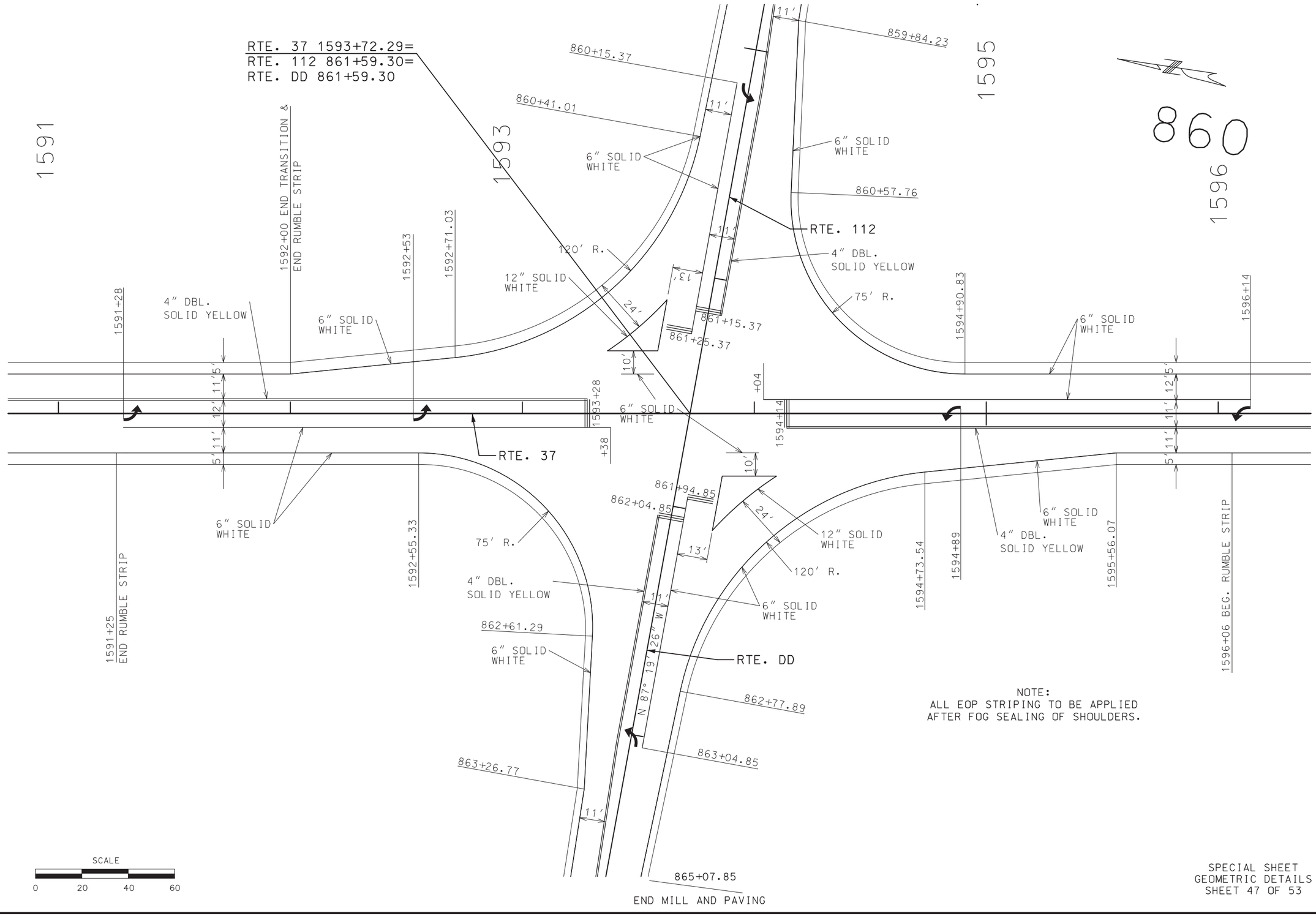
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.



NOTE:
ALL EOP STRIPING TO BE APPLIED AFTER FOG SEALING OF SHOULDERS.

SPECIAL SHEET
GEOMETRIC DETAILS
SHEET 47 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	48

COUNTY: BARRY
JOB NO.: J7P3120
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

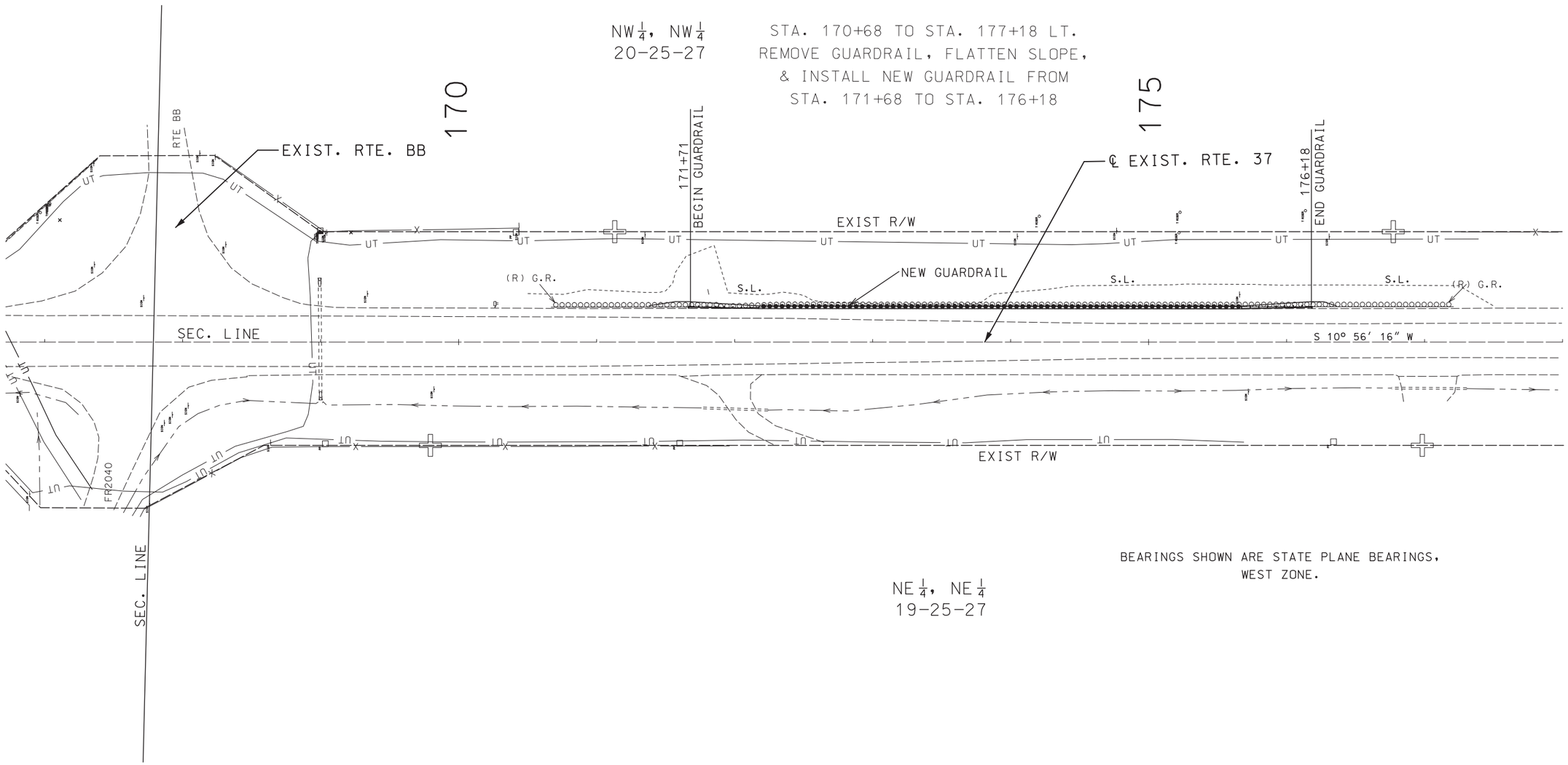
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.

LUTHER F. & SHELLY A. CARTER
NO TAKINGS

$NW\frac{1}{4}$, $NW\frac{1}{4}$
20-25-27

STA. 170+68 TO STA. 177+18 LT.
REMOVE GUARDRAIL, FLATTEN SLOPE,
& INSTALL NEW GUARDRAIL FROM
STA. 171+68 TO STA. 176+18



$NE\frac{1}{4}$, $NE\frac{1}{4}$
19-25-27

BEARINGS SHOWN ARE STATE PLANE BEARINGS,
WEST ZONE.

SCALE
0 40 80 120

SPECIAL SHEET
SHEET 48 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	49

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

PROJECT NO.

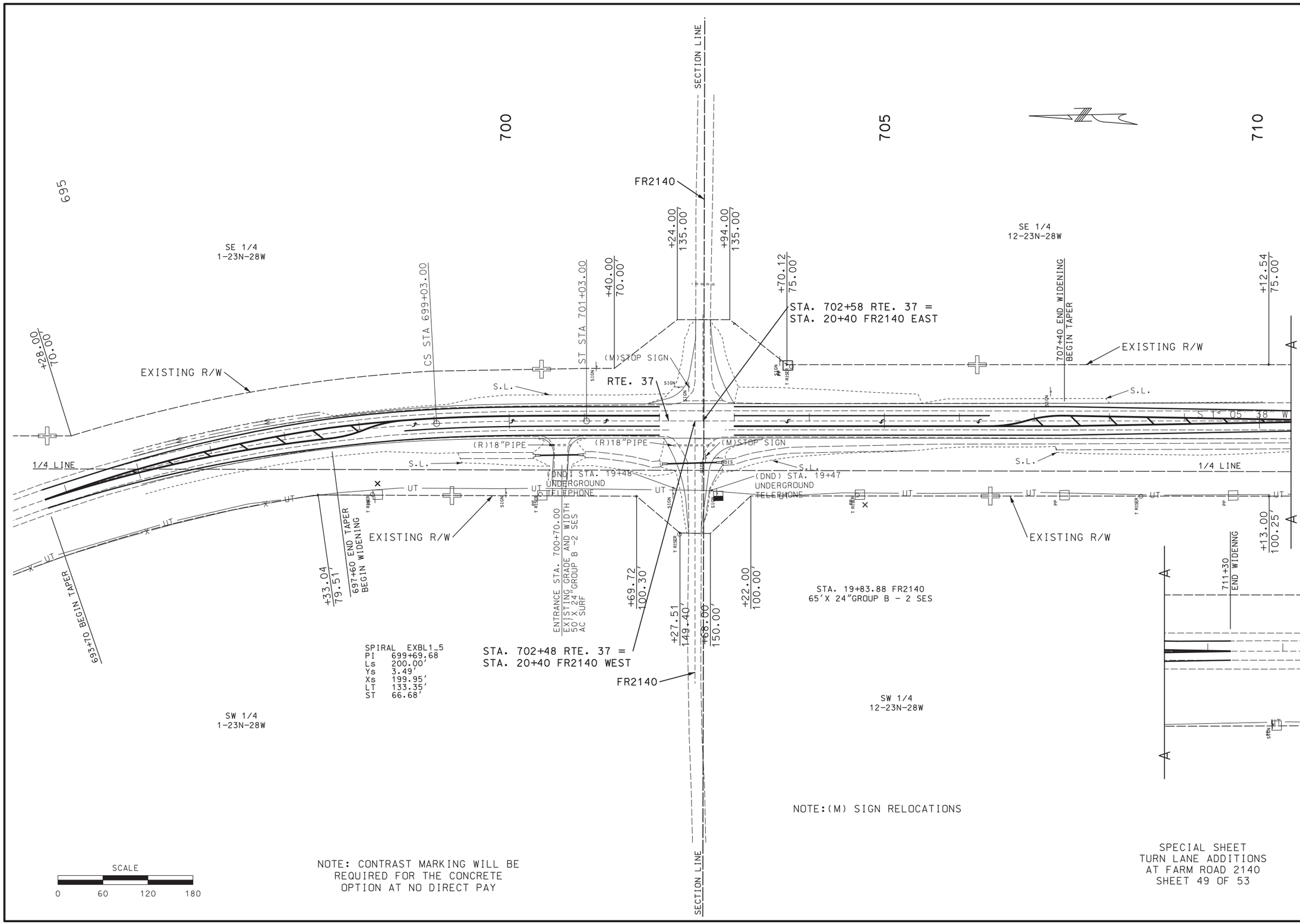
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.



STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
3/16/2020	
ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	50
COUNTY	
BARRY	
JOB NO.	
J7P3120	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

THE APPROXIMATE LOCATION OF PROPERTY LINES AS SHOWN ON THE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE.

RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND FROM STATION 1407+40 TO STATION 1408+95, FROM STATION 1426+25 TO STATION 1429+75, AND FROM STATION 1444+80 TO STATION 1446+55, A COMBINED DISTANCE OF 0.13 MILES.

ALL BEARINGS BASED ON STATE PLANE BEARINGS WEST ZONE.

CURVE 10
PI 1408+88.10
PC 1405+83.00
PT 1411+88.01
Δ 18° 09' 01.1" (LT)
D 3° 00' 00.0" (CHORD)
L 605.01' (CHORD)
T 305.10'
R 1,910.08'

STA. 1408+15.11
EXIST. 5' x 3' x 47' RCB
EXTEND LT. 15', RT. 18' @ 10° L.A.
HEADWALL LENGTHS = 6'4"
PLACE 22'L x 14'W x 2' THICK ROCK LINING
D.A. = 34 AC.
Q50 = 132 (DESIGN)
Q OVERTOPPING > Q100
CONSTRUCT 7'L x 2'W PAVED DITCH @ INLET

WEST CORNER,
SECTION 4,
TOWNSHIP 21 NORTH,
RANGE 28 WEST.
CORNER BY
S. CRAIG DAVIS
PLS # LS-2357.

2760.35'
N 59° 09' 07" W
ROUTE 37
P.C. STA. 1405+83.00

LAND CORNER
NOT TO SCALE

NE ¼ SW ¼ 4-21-28

SW ¼ SE ¼ 4-21-28

HUNTER'S GLEN SUBDIVISION
LOT 1

EGGLESTON, ETALS
NO TAKING

1406

1407

1408

1409

1410

¼ LINE

EQUATION: P.T. STA. 1404+17.40 BK. = PC STA. 1405+83.00 AHD.

STA. 1406+44.50
OFF. 18' LT.
BEGIN MASH CWT

STA. 1407+80
OFF. 65' LT.
NEW R/W

STA. 1407+90
OFF. 65.13' LT.
PERM. ESM'T (DRAINAGE)

STA. 1407+40
OFF. 30' LT.
NEW R/W

STA. 1407+90
OFF. 90' LT.
PERM. ESM'T (DRAINAGE)

STA. 1408+35
OFF. 90' LT.
PERM. ESM'T (DRAINAGE)

STA. 1408+35
OFF. 65.07' LT.
PERM. ESM'T (DRAINAGE)

STA. 1408+40
OFF. 65' LT.
NEW R/W

STA. 1408+95
OFF. 30' LT.
NEW R/W

STA. 1410+24.50
OFF. 18' LT.
END MASH CWT

⑤ W.D. GOWEN HEIRS
1487 S.F. NEW R/W
50 S.F. PERMANENT EASEMENT (DRAINAGE)
0.27 AC. REMAINING

⑥ WENDELL R. & JANICE S. BISHOP REV. TRUST
2216 S.F. NEW R/W
1025 S.F. PERMANENT EASEMENT (DRAINAGE)
213.75 AC. REMAINING

NEW R/W

ROCK LINING, 22'x14'x2'

(R), FENCE
(M), UT

PIPE POSTS, (R) (R), FENCE

(M), UT

EXIST. R/W

EXIST. RTE. 37

UT

S.L.

STA. 1405+83.00
OFF. 50' RT.
TEMP. EASEMENT

STA. 1406+05.00
OFF. 18' RT.
BEGIN MASH CWT

SE ¼ SW ¼ 4-21-28

20' x 467' TEMPORARY EASEMENT (CONSTRUCTION)

⑦A ARKANSAS AND MISSOURI RAILROAD
0.2 AC. TEMP. ESM'T. (CONST.)

PAVED DITCH

(UIP)

STA. 1409+58.50
OFF. 18' RT.
END MASH CWT

STA. 1410+50
OFF. 50' RT.
TEMP. EASEMENT

EXISTING RAILROAD R/W

SCALE
0 20 40 60

SPECIAL SHEET
CULVERT MODIFICATION
STATION 1408+15.11
SHEET 50 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/16/2020

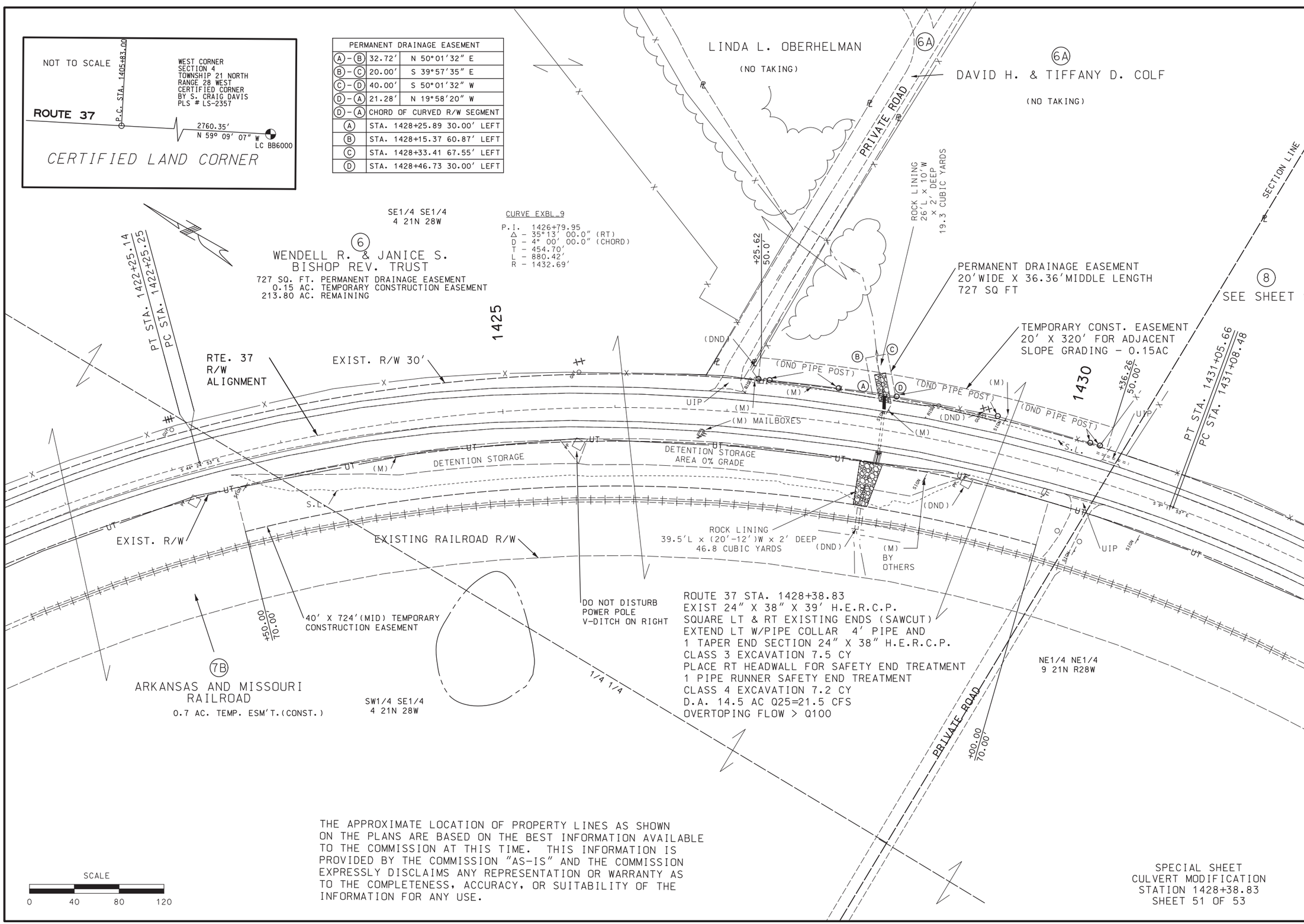
ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	51

COUNTY BARRY
JOB NO. J7P3120
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION	REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



PERMANENT DRAINAGE EASEMENT		
A - B	32.72'	N 50°01'32" E
B - C	20.00'	S 39°57'35" E
C - D	40.00'	S 50°01'32" W
D - A	21.28'	N 19°58'20" W
D - A	CHORD OF CURVED R/W SEGMENT	
A	STA. 1428+25.89 30.00' LEFT	
B	STA. 1428+15.37 60.87' LEFT	
C	STA. 1428+33.41 67.55' LEFT	
D	STA. 1428+46.73 30.00' LEFT	

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SPECIAL SHEET
CULVERT MODIFICATION
STATION 1428+38.83
SHEET 51 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
3/19/2020	
ROUTE 37	STATE MO
DISTRICT SW	SHEET NO. 52
COUNTY BARRY	
JOB NO. J7P3120	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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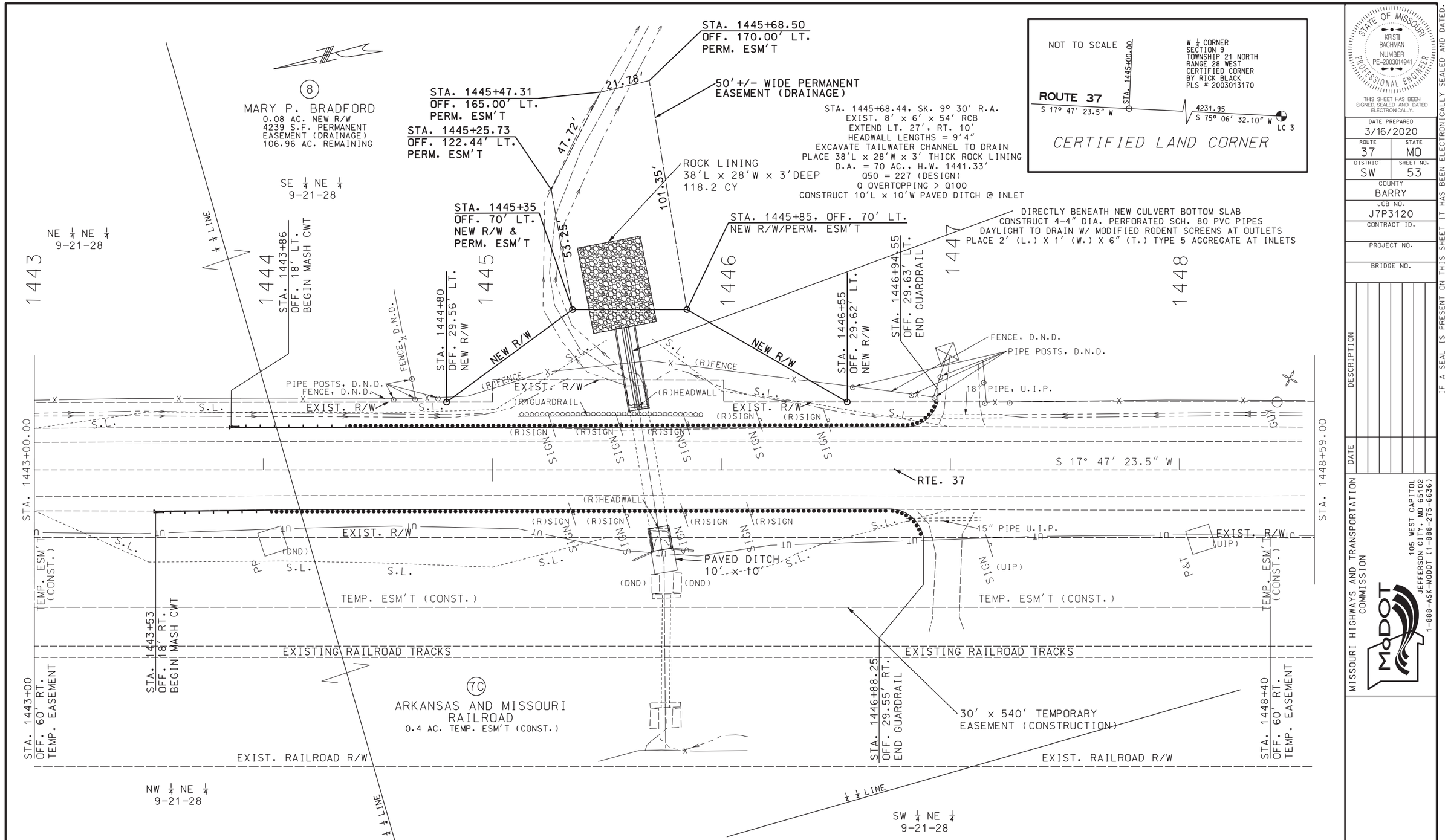
REV.



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SPECIAL SHEET
CULVERT MODIFICATION
STATION 1445+68.44
SHEET 52 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
3/16/2020	
ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	53
COUNTY	
BARRY	
JOB NO.	
J7P3120	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

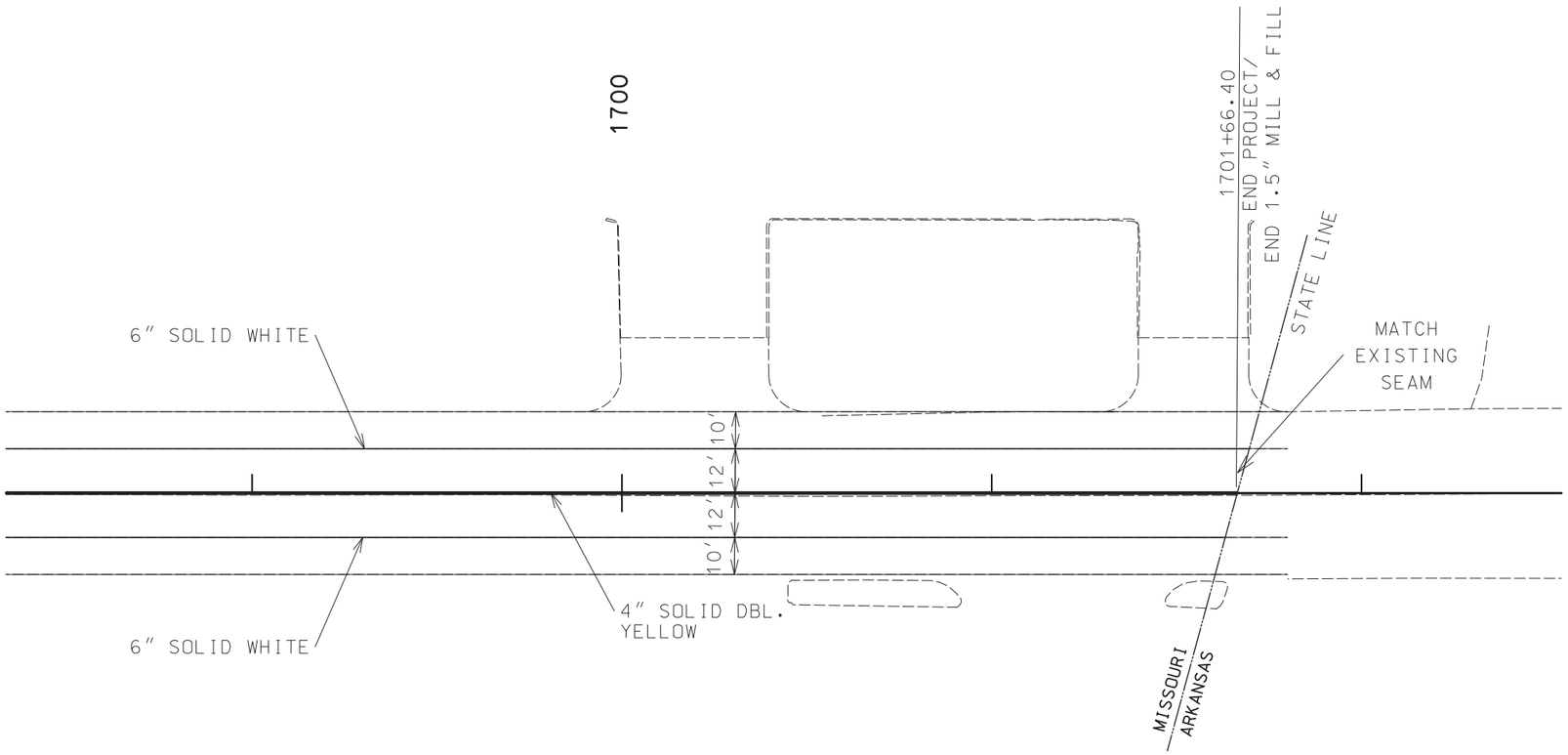
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.



END PROJECT
STATION 1701+66.40
1 1/2" COLDMILL WITH 1 1/2" SP095C OVERLAY
ON DRIVING LANES AND 2' ONTO SHOULDERS
REMAINING SHOULDERS TO BE FOG SEALED

SCALE
0 20 40 60

SPECIAL SHEET
GEOMTRIC DETAILS
SHEET 53 OF 53

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	54

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.

PROJECT COORDINATE POINT LISTING
MISSOURI COORDINATE SYSTEM OF 1983
CENTRAL ZONE

MODIFIED COORDINATES PROJECT FACTOR: 1.0000900

SHEET NO	STATION	LOCATION	OFFSET	NORTHING (FEET)	EASTING (FEET)	DESCRIPTION	DESIGN PT. ID
FLATTENING SLOPE FOR NEW GUARDRAIL S/O RTE. BB							
4	165+00.00	RTE. 37 ℄	0	256,984.03	2,958,601.52	POT	EXBL1
4	192+00.08	RTE. 37 ℄	0	254,284.31	2,958,557.32	POT	EXBL2
PLANNED TURN LANE AT FR2140							
5	699+03.00	RTE. 37 ℄	0	205,759.39	2,962,526.64	CS	CS EXBL1_5
5	699+69.68	RTE. 37 ℄	-	205,692.74	2,962,528.86	PI	PI EXBL1_5
5	701+01.00	RTE. 37 ℄	0	205,559.41	2,962,526.31	ST	ST EXBL1_5
5	-	RTE. 37	-	205,695.87	2,960,617.84	CC	CC EXBL1_5
CULVERT AT STA. 1408+15.11							
6	1408+88.10	RTE. 37	-	144,065.22	2,945,533.01	PI	PI 10
6	1405+83.00	RTE. 37 ℄	0	144,211.12	2,945,265.06	PC	PC 10
6	-	RTE. 37	-	145,888.63	2,946,178.48	CC	CC 10
6	1411+88.01	RTE. 37 ℄	0	144,010.05	2,945,833.07	PT	PT 10
CULVERT AT STA. 1428+38.83							
7	1426+79.95	RTE. 37	-	143,704.30	2,947,607.21	PI	PI EXBL_7
7	1422+25.25	RTE. 37 ℄	0	144,029.09	2,947,679.89	PC	PC EXBL_7
7	-	RTE. 37	-	143,026.43	2,946,265.63	CC	CC EXBL_7
7	1431+05.66	RTE. 37 ℄	0	143,255.45	2,947,679.89	PT	PT EXBL_7
CULVERT AT STA. 1445+68.44							
8	1442+00	RTE. 37 ℄	0	141,726.40	2,946,962.06	POT	10
8	1453+52.36	RTE. 37 ℄	0	140,629.15	2,946,609.98	POT	11

1 GROUND DISTANCE

NOTE: STATE PLANE COORDINATE = PROJECT COORDINATE/PROJECT FACTOR

COORDINATED POINT SHEET
SHEET 1 OF 1

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	55

COUNTY: BARRY

JOB NO.: J7P3120

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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REV.

NOTES:

SIGN (1) IS REQUIRED PER EPG 616.2.3.

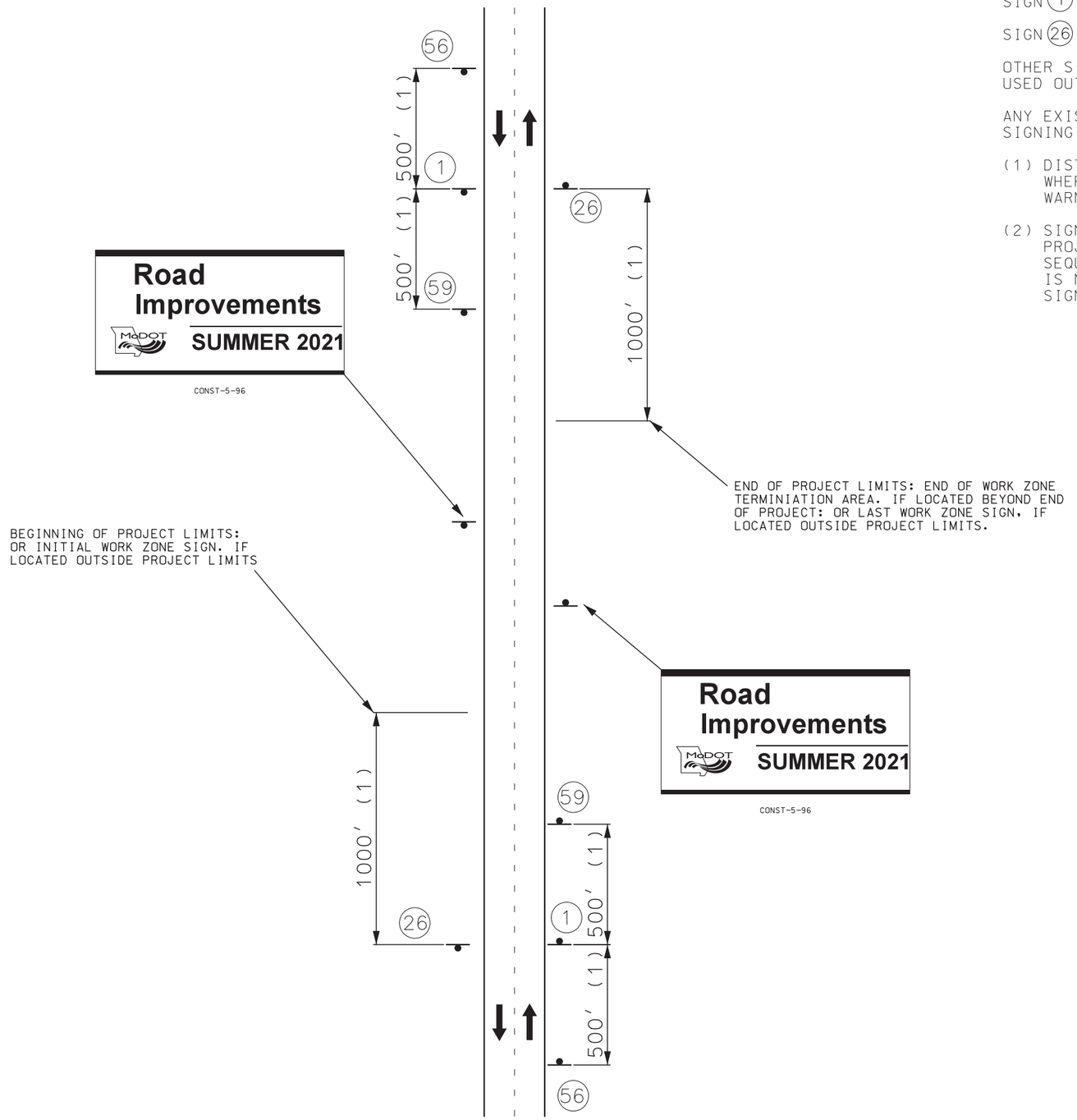
SIGN (26) IS USED ON ALL PROJECTS WHERE SIGN (1) IS USED

OTHER SIGNS SUCH AS DETOUR OR ALTERNATE ROUTE SIGNING MAY BE USED OUTSIDE THE PROJECT LIMITS.

ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

(1) DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS. WHERE TRAFFIC BACKUPS ARE EXPECTED BEYOND THE ADVANCE WARNING AREA, ADDITIONAL SIGNING MAY BE NEEDED.

(2) SIGN CONST-5-96 IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS. IF A VIABLE LOCATION WITHIN THE PROJECT IS NOT AVAILABLE. THE SIGN MAY BE PLACED 500 FEET BEFORE SIGN CONST-6-48





SPECIAL

(59)



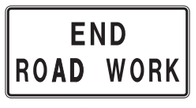
G020-1

(1)



CONST-7-48

(56)



G020-2a

(26)

TRAFFIC CONTROL PLAN
BEGIN AND END PROJECT
SHEET 1 OF 8

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
3/16/2020	
ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	56
COUNTY	
BARRY	
JOB NO.	
J7P3120	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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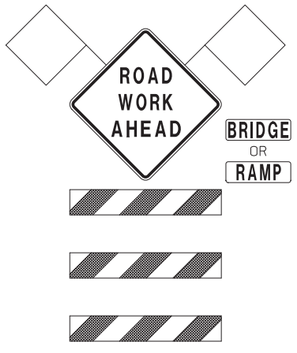
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

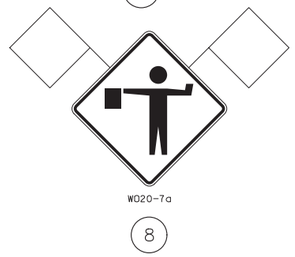
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

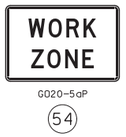
REV.

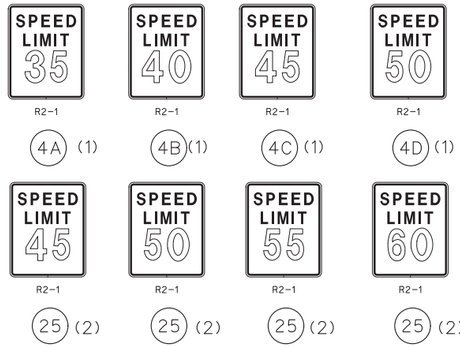


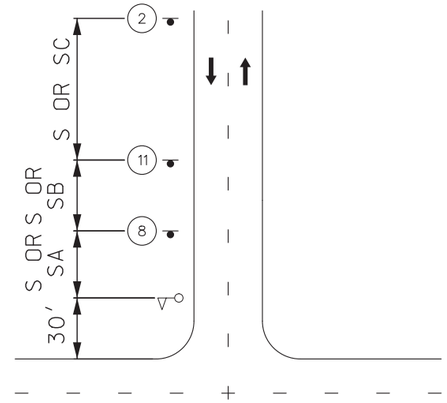












PUBLIC ROAD CROSSING ANOTHER ROAD UNDER CONSTRUCTION WITH TEMPORARY LANE CLOSURE



SIGN 58, SHALL BE PLACED AT ALL SIDE ROADS WHEN IN USE DURING OPERATION.

MOVABLE BARRICADE
LOCATE AS NEEDED

TRAFFIC CONTROL LEGEND

- SIGN (SINGLE SIDED)
- FLAGGER
- CHANNELIZER
- TRUCK MOUNTED ATTENUATOR

Recommended Minimum Sign Spacing Chart

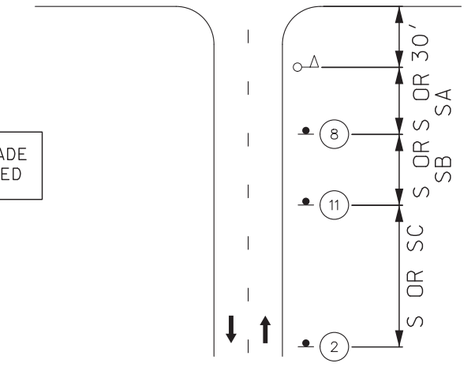
Speed Limit, mph	Sign Spacing, * ft.	
	Undivided Highway	Divided Highway
0 - 35	200 **	200 **
40 - 45	350	500
50 - 55	500	1000
60 - 70	SA - 1000, SB - 1500 and SC - 2640	
* Sign spacing may be adjusted, normally by increasing it to accommodate field conditions and visibility.		
** For urban low speed, minimum recommended spacing in MUTCD is 100 ft.		

NOTES:
DAYLIGHT FLAGGING OPERATIONS ONLY.

SHORT-TERM RUMBLE STRIPS*		
SPEED (MPH)	DISTANCE (FT.) (1)	SPACING (FT.) (2)
0-45 (OPTIONAL)	120	10
50-55	160	15
60-70	200	20

(1) DISTANCE OF STRIP BEFORE SIGNS 7 & 8.
(2) SPACING BETWEEN STRIPS IN THE 3-STRIP CONFIGURATION; MAY NEED TO BE ADJUSTED IF TEMPORARY RUMBLES STRIPS ARE SLIDING OR MOVING.
* TWO SETS OF RUMBLE STRIPS (PRIOR TO SIGNS 7 & 8) MAY BE USED SIMULTANEOUSLY OR ONE SET OF RUMBLE STRIPS MAY BE USED. IF ONE SET OF RUMBLE STRIPS ARE USED, THE PREFERRED PLACEMENT IS AT THE LOCATION PRIOR TO SIGN 8.

DRAWING IS NOT TO SCALE



PUBLIC ROAD CROSSING ANOTHER ROAD UNDER CONSTRUCTION

RECOMMENDED LENGTH OF LONGITUDINAL BUFFER SPACES	
POSTED SPEED PRIOR TO CONSTRUCTION (mph)	LENGTH (ft.)
up to 35	280
40 - 45	400
50 - 55	560
60 - 70	840

TAPER SPACING			
SPEED LIMIT (MPH)	TAPER LENGTH[1] (ft.)		
	SHOULDER[2]	LANE[3]	CHANNELIZER SPACING[4] (ft.)
up to 35	70	245	35[5]
40 - 45	150	540	40[5]
50 - 55	185	660	50[6]
60 - 70	235	840	60[6]

[1]TAPE LENGTHS MAY ADJUSTED TO ACCOMMODATE CROSSROADS, CURVES, INTERSECTIONS, RAMPS OR OTHER GEOMETRIC FEATURES.
[2]BASED ON 10' SHOULDER WIDTH
[3]BASED ON 12' LANE WIDTH
[4]CHANNELIZER SPACING MAY BE REDUCED TO DISCOURAGE TRAFFIC ENCROACHMENT.
[5]SPACING REDUCED TO 1/2 AT INTERSECTIONS.
[6]SPACING MAY BE REDUCED TO 1/2 AT INTERSECTIONS.

TRAFFIC CONTROL PLAN
INTERSECTION LANE CLOSURE
SHEET 2 OF 8

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/16/2020
ROUTE: 37 | STATE: MO
DISTRICT: SW | SHEET NO.: 57
COUNTY: BARRY
JOB NO.: J7P3120
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.



WO20-1

2



WO20-4

7



WO20-7a

8



R2-1

4



R2-1

4



R2-1

4



R2-1

4

(REDUCED SPEED)



G020-5aP

54



R2-1

25



R2-1

25



R2-1

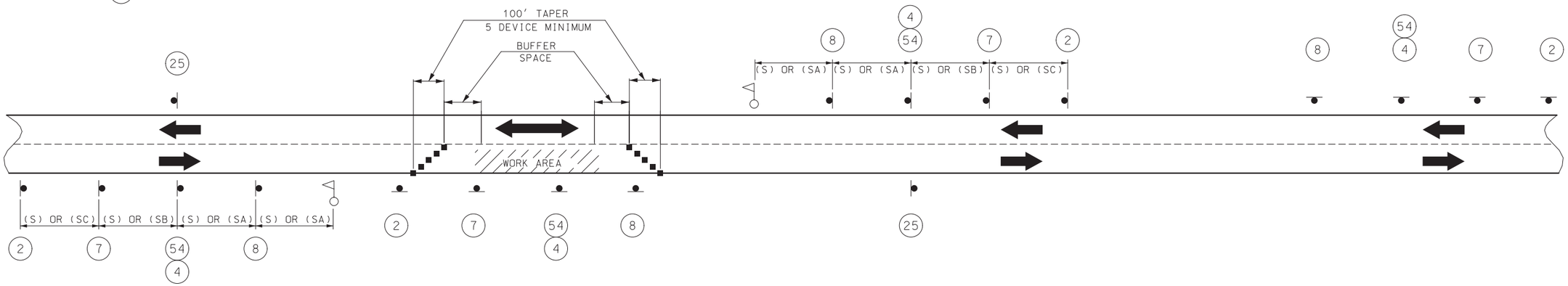
25



R2-1

25

(NORMAL SPEED)



SET 1

ACTIVE

SIGN SETS 1 AND 3 ARE ACTIVE AND (I.E., SIGNS FACE ONCOMING TRAFFIC).

SIGN SETS 2 AND 4 ARE INACTIVE (I.E., SIGNS DO NOT FACE EITHER DIRECTION OF TRAFFIC) WHEN THE RESURFACING OPERATION IS LOCATED BETWEEN SIGN SETS 1 AND 3.

WHEN SIGN SETS 2 AND 4 ARE ACTIVE, SIGN SETS 1 AND 3 BECOME INACTIVE AND ARE ADVANCED TO BECOME SETS 2 AND 4 WITH SIGN LEGENDS TURNED AWAY FROM BOTH DIRECTIONS OF TRAFFIC. WHEN THE RESURFACING OPERATION ADVANCES TO BETWEEN SIGN SETS 2 AND 4, SIGN SETS 2 AND 4 BECOME ACTIVE (I.E., NEW SIGN SETS 1 AND 3) AND SIGN SETS 1 AND 3 ADVANCED IN THE DIRECTION OF THE OPERATION (I.E., NEW SIGN SETS 2 AND 4).

■ – CHANNELIZERS

– FLAGGER

NOTES:

DAYLIGHT FLAGGING OPERATIONS ONLY.

CHANNELIZING DEVICES LOCATED DOWNSTREAM OF THE ONE-LANE, TWO-WAY TAPER ARE OPTIONAL. THESE DEVICES SHOULD BE ELIMINATED WHEN THEIR USE WILL REDUCE THE USABLE LANE WIDTH, INCLUDING ANY ACCEPTABLE SHOULDERS, TO LESS THAN 10′ OR WILL SIGNIFICANTLY AFFECT THE RESURFACING OPERATION.

FLAG ASSEMBLIES FOR SIGNS WILL BE PAID FOR AS EACH PER SIGN, EXCEPT FOR SIGN WO20-7a WHICH IS SUBSIDIARY TO THE SIGN.

SET 2

INACTIVE



G020-4

53

SIGN 53, "PILOT CAR FOLLOW ME" SHALL BE IN CONTRACTOR'S RESPONSIBILITY WHEN IN USE DURING OPERATION.

NOTES:

(1) SPACING BETWEEN SIGNS, BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER OR SIGNED CONDITION.

SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

SET 3

ACTIVE

SPEED	SIGN SPACING (FT.) (1)	
PERMANENT POSTED (MPH)	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0–35	200	200
40–45	350	500
50–55	500	1000
60–70	1000	(SA)–1000 (SB)–1500 (SC)–2640

SHORT-TERM RUMBLE STRIPS✳		
SPEED (MPH)	DISTANCE (FT.) (1)	SPACING (FT.) (2)
0–45 (OPTIONAL)	120	10
50–55	160	15
60–70	200	20

(1) DISTANCE OF STRIP BEFORE SIGNS 7 & 8.

(2) SPACING BETWEEN STRIPS IN THE 3-STRIP CONFIGURATION; MAY NEED TO BE ADJUSTED IF TEMPORARY RUMBLES STRIPS ARE SLIDING OR MOVING.

✳ TWO SETS OF RUMBLE STRIPS (PRIOR TO SIGNS 7 & 8) MAY BE USED SIMULTANEOUSLY OR ONE SET OF RUMBLE STRIPS MAY BE USED. IF ONE SET OF RUMBLE STRIPS ARE USED, THE PREFERRED PLACEMENT IS AT THE LOCATION PRIOR TO SIGN 8.

SET 4

INACTIVE

PERMANENT POSTED SPEED LIMIT (MPH)	BUFFER SPACE LENGTH (FT)
0 – 35	280
40 – 45	400
50 – 55	560
60 – 70	840

TRAFFIC CONTROL PLAN
LANE CLOSURE
SHEET 3 OF 8

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DATE PREPARED: 3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	58

COUNTY: BARRY

JOB NO.: J7P3120

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

DESCRIPTION	DATE

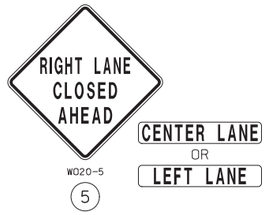
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.







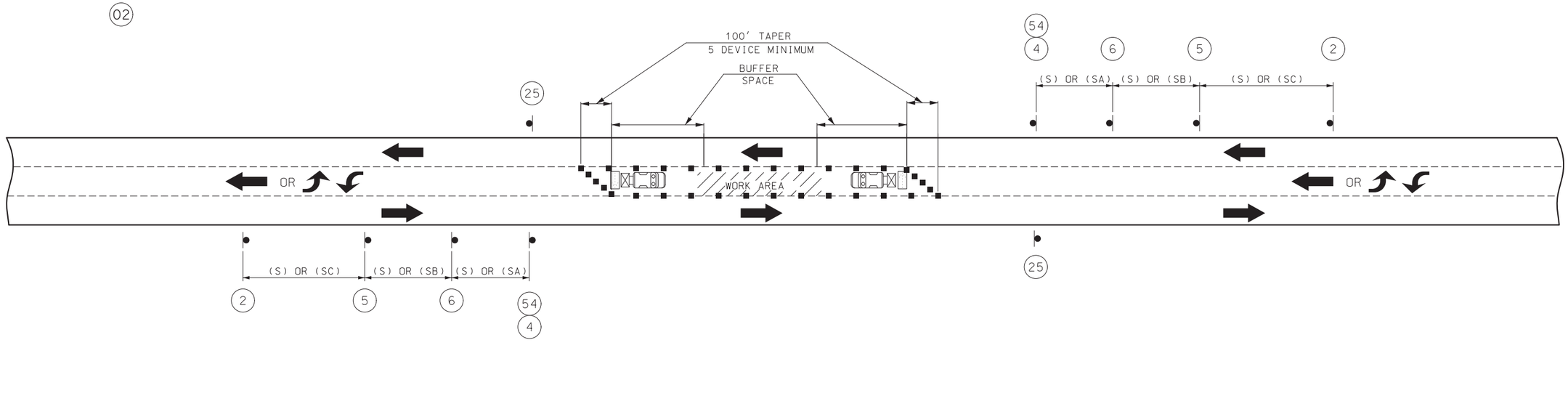












■ – CHANNELIZERS

– FLASHING ARROW PANEL

– PROTECTIVE VEHICLE W/TMA

SPEED	SIGN SPACING (FT.) (1)	
PERMANENT POSTED (MPH)	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200	200
40-45	350	500
50-55	500	1000
60-70	1000	(SA)-1000 (SB)-1500 (SC)-2640

NOTES:

(1) SPACING BETWEEN SIGNS, BETWEEN LAST SIGN AND BEGINNING OF TAPER OR SIGNED CONDITION.

SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

PERMANENT POSTED SPEED LIMIT (MPH)	BUFFER SPACE LENGTH (FT)
0 – 35	280
40 – 45	400
50 – 55	560
60 – 70	840

NOTES:

CHANNELIZING DEVICES LOCATED DOWNSTREAM OF THE ONE-LANE, TWO-WAY TAPER ARE OPTIONAL. THESE DEVICES SHOULD BE ELIMINATED WHEN THEIR USE WILL REDUCE THE USABLE LANE WIDTH, INCLUDING ANY ACCEPTABLE SHOULDERS, TO LESS THAN 10' OR WILL SIGNIFICANTLY AFFECT THE RESURFACING OPERATION.

FLAG ASSEMBLIES FOR SIGNS WILL BE PAID FOR AS EACH PER SIGN, EXCEPT FOR SIGN WO20-7a WHICH IS SUBSIDIARY TO THE SIGN.

TRAFFIC CONTROL PLAN
CENTER LANE
SHEET 4 OF 8

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	59

COUNTY BARRY

JOB NO. J7P3120

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

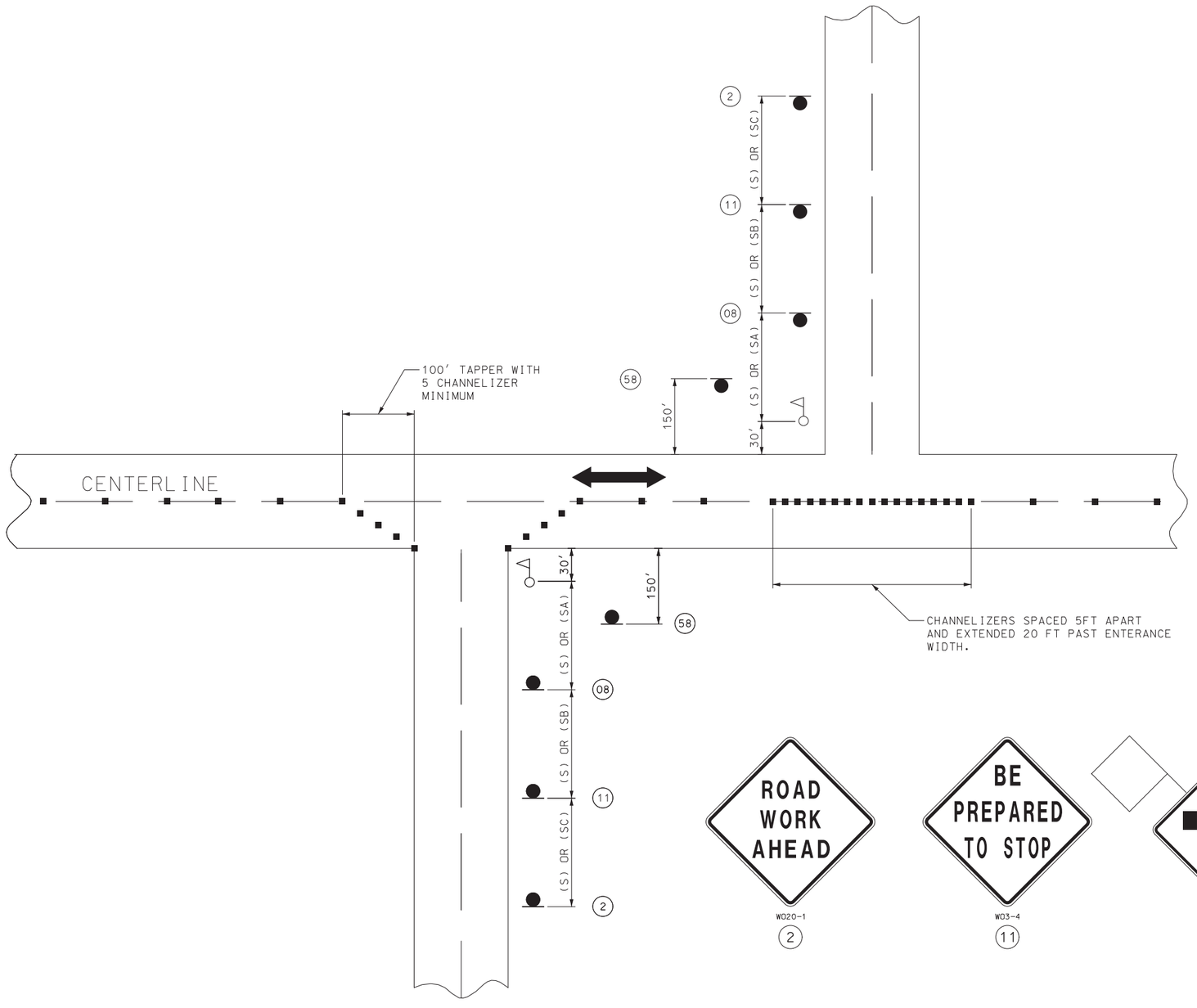
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.



SPEED	SIGN SPACING (FT.)	
PERMANENT POSTED (MPH)	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200	200
40-45	350	500
50-55	500	1000
60-70	1000	(SA)-1000 (SB)-1500 (SC)-2640

DISTANCE MAY BE ADJUSTED ACCORDING TO FIELD CONDITIONS.

NOTES:
WARNING SIGNS SHALL BE ERECTED AT EACH INTERSECTION WITH ANOTHER STATE HIGHWAY WITHIN THE WORK ZONE.

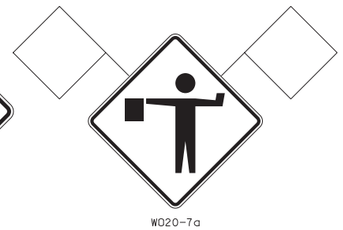
ADDITIONAL WARNING SIGNS SHALL BE ERECTED AT OTHER INTERSECTIONS WITHIN THE WORK ZONE, AS DIRECTED BY THE ENGINEER.

■ - CHANNELIZERS (AS SPECIFIED)

- FLAGGER

W020-1
(2)

W03-4
(11)



W020-7a
(08)



G020-4a
(58)

SIGN 58, SHALL BE PLACED AT ALL SIDE ROADS WHEN IN USE DURING OPERATION.



SPECIAL
(60)

SIGN 60, TO BE USED IN PRIVATE DRIVEWAYS TO ENHANCE WORK ZONE SIGNING. SEE SPECIAL PROVISIONS.

SIDE ROADS ENTERING WORK ZONES

TRAFFIC CONTROL PLAN
INTERSECTION LANE CLOSURE
SHEET 5 OF 8

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	60

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

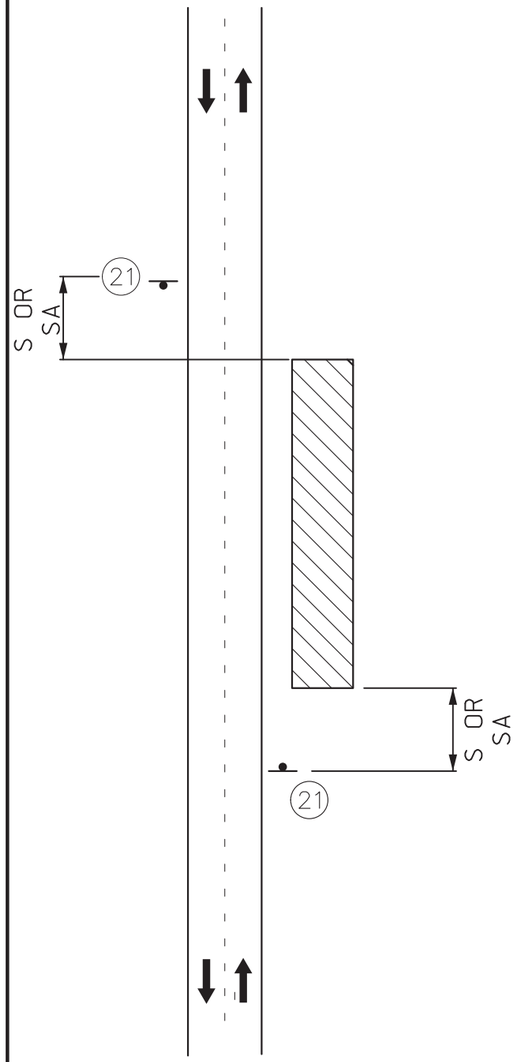
DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

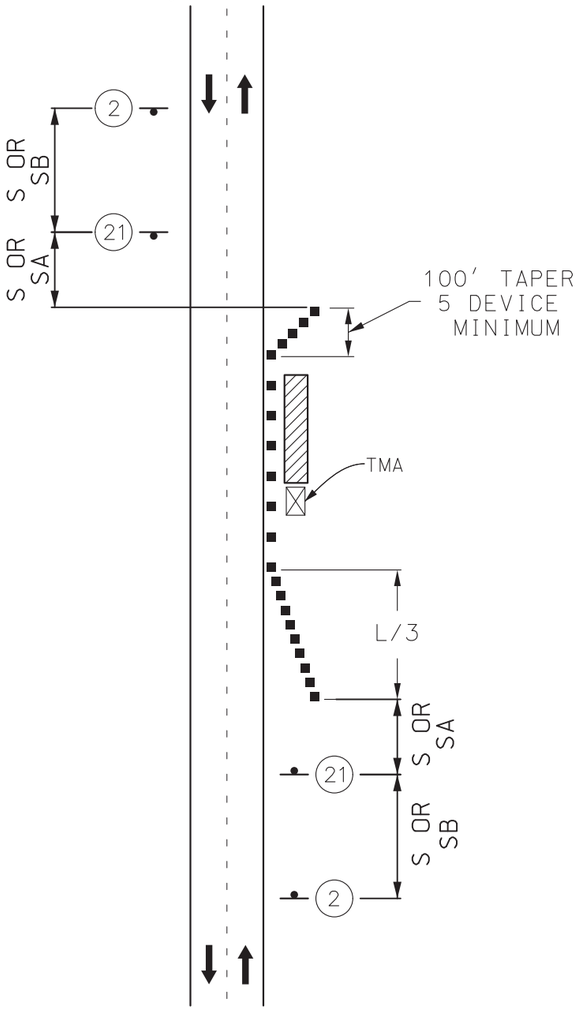
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.

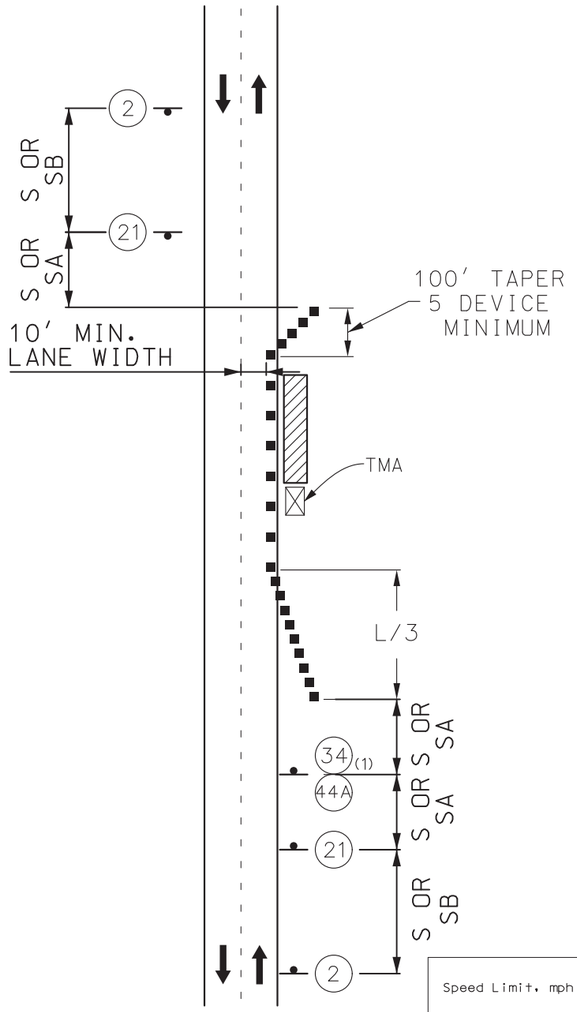
Work Beyond Shoulder

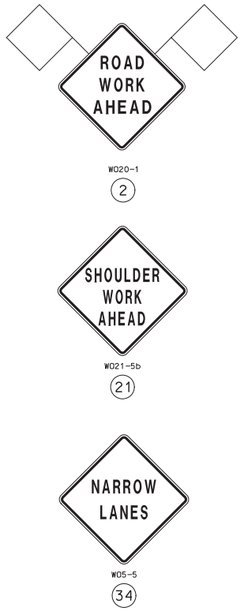


Work on Shoulder with No Travelway Encroachment



Minor Travelway Encroachment





RECOMMENDED LENGTH OF LONGITUDINAL BUFFER SPACES	
POSTED SPEED PRIOR TO CONSTRUCTION (mph)	LENGTH (ft.)
up to 35	250
40 - 45	360
50 - 55	495
60 - 70	730

☒ TRUCK MOUNTED ATTENUATOR

DRAWING IS NOT TO SCALE

TAPER SPACING			
SPEED LIMIT (MPH)	TAPER LENGTH[1] (ft.)		
	SHOULDER[2]	LANE[3]	CHANNELIZER SPACING[4] (ft.)
up to 35	70	245	35[5]
40 - 45	150	540	40[5]
50 - 55	185	660	50[6]
60 - 70	235	840	60[6]

[1]TAPE LENGTHS MAY ADJUSTED TO ACCOMMODATE CROSSROADS, CURVES, INTERSECTIONS, RAMPS OR OTHER GEOMETRIC FEATURES.
[2]BASED ON 10′ SHOULDER WIDTH
[3]BASED ON 12′ LANE WIDTH
[4]CHANNELIZER SPACING MAY BE REDUCED TO DISCOURAGE TRAFFIC ENCROACHMENT.
[5]SPACING REDUCED TO 1/2 AT INTERSECTIONS.
[6]SPACING MAY BE REDUCED TO 1/2 AT INTERSECTIONS.

Recommended Minimum Sign Spacing Chart

Speed Limit, mph	Sign Spacing, ✳ ft.	
	Undivided Highway	Divided Highway
0 - 35	200 ✳✳	200 ✳✳
40 - 45	350	500
50 - 55	500	1000
60 - 70	SA - 1000, SB - 1500 and SC - 2640	
✳ Sign spacing may be adjusted, normally by increasing it to accommodate field conditions and visibility.		
✳✳ For urban low speed, minimum recommended spacing in MUTCD is 100 ft.		

GENERAL NOTES:

SIGN (2) NOT NEEDED IF SHOULDER WORK IS LOCATED WITHIN THE LIMITS OF AN ACTIVITY AREA WHERE ANOTHER SIGN IS ALREADY USED.

(1) SIGN (44A) NOT REQUIRED FOR NARROW LANE SECTIONS LESS THAN ONE MILE.

TRAFFIC CONTROL PLAN
SHOULDER WORK
SHEET 6 OF 8

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

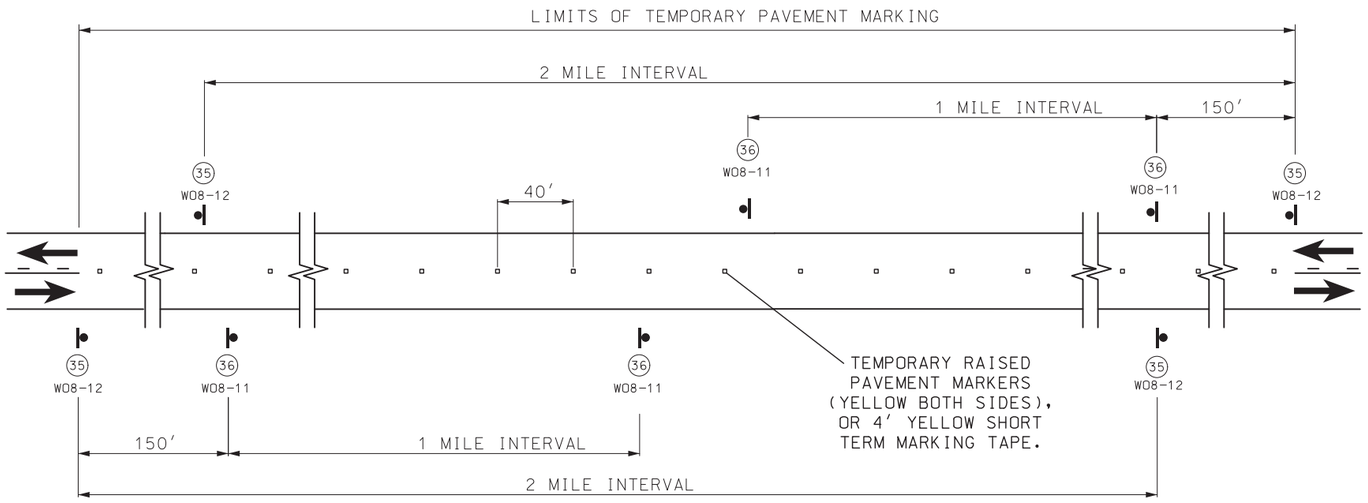
DATE PREPARED 3/16/2020
ROUTE 37 | STATE MO
DISTRICT SW | SHEET NO. 61
COUNTY BARRY
JOB NO. J7P3120
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

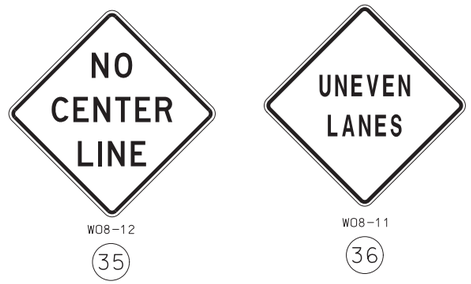
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.



SIGN SPACING AND TEMPORARY STRIPING FOR MAINLINE

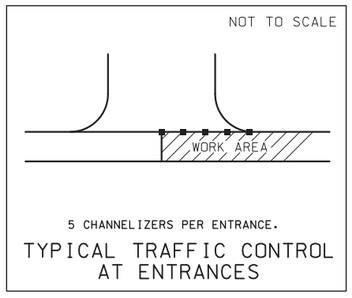


NOTES:

SIGN (35) AND TYPE 2 TRPM INSTALLED WHERE CENTERLINE STRIPING HAS BEEN COVERED OR REMOVED. SIGNS ARE TO REMAIN IN PLACE UNTIL THE PERMANENT CENTERLINE PAVEMENT MARKINGS ARE IN PLACE. SIGNS SHALL BE COVERED OR REMOVED WHEN PAVEMENT CENTERLINE MARKING HAS BEEN INSTALLED.

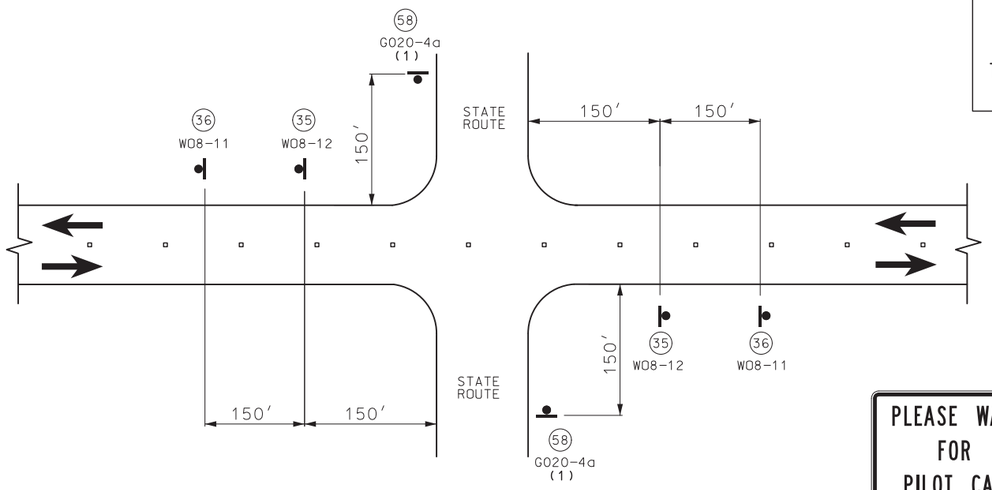
SIGN (35) IS PLACED AT APPROXIMATELY TWO-MILE INTERVALS AND AT STATE ROUTE JUNCTIONS. WHEN THE INSTALLATION AT A JUNCTION IS WITHIN ONE-EIGHTH MILE OF THE NORMAL MAINLINE SIGN (35), THE LATTER MAY BE ELIMINATED.

ALL SIGNS SHALL BE POST MOUNTED AND IN ACCORDANCE WITH STANDARD PLAN 616.10 AND 903.03.



5 CHANNELIZERS PER ENTRANCE.

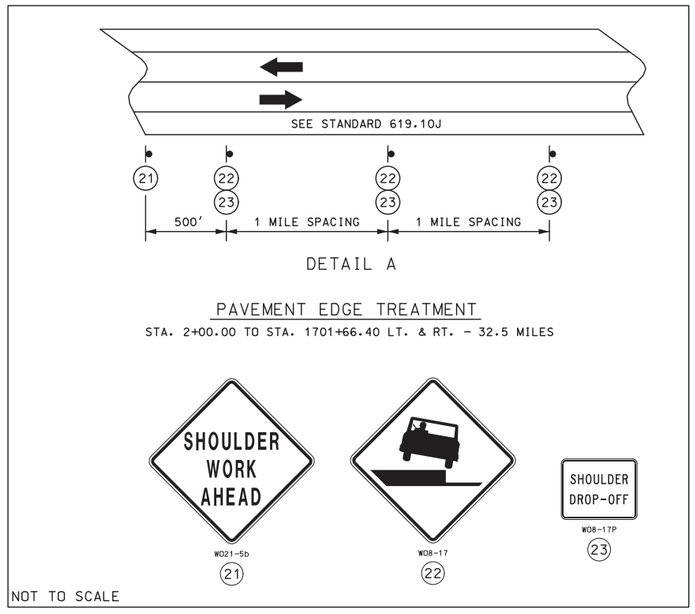
TYPICAL TRAFFIC CONTROL AT ENTRANCES



SIGN SPACING AT STATE ROUTE INTERSECTIONS SHOWING TEMPORARY STRIPING FOR MAINLINE

(1) ADDITIONAL SIDEROADS MAY BE SIGNED AS APPROVED BY THE ENGINEER.

G020-4a
58



NOT TO SCALE

TRAFFIC CONTROL PLAN
SHEET 7 OF 8

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	62

COUNTY: BARRY

JOB NO.: J7P3120

CONTRACT ID.:

PROJECT NO.:

BRIDGE NO.:

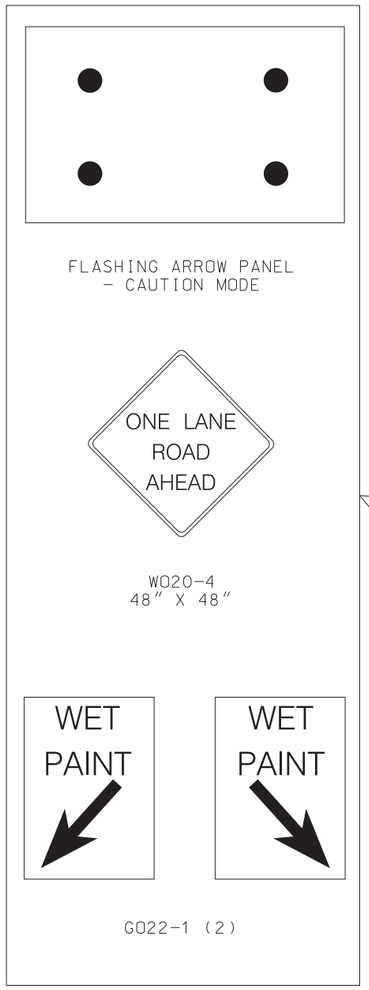
DESCRIPTION	DATE

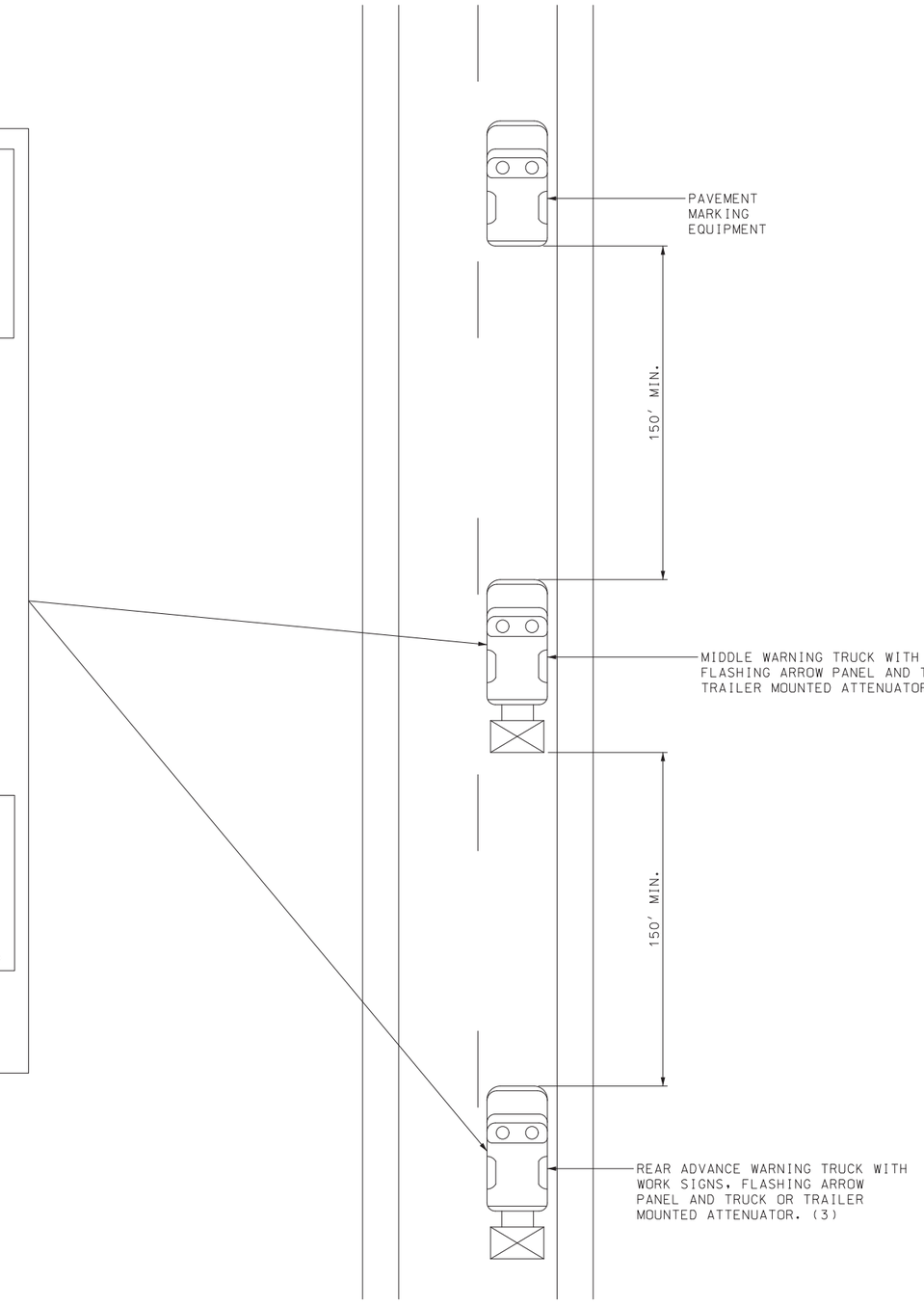
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.





NOTES:
UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY PROVIDE ADDITIONAL PROTECTIVE TRUCK EQUIPPED WITH PROPER WARNING DEVICES.

PROTECTIVE TRUCK AND WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROPE LIGHTS.

FLASHING ARROW PANELS SHALL BE INCIDENTAL TO TRUCK MOUNTED ATTENUATORS, WHEREVER USED. NO ADDITIONAL PAYMENT SHALL BE MADE.

(1) TRUCK IS OPTIONAL ON TWO-LANE UNDIVIDED HIGHWAYS IF SIGNING AND ARROW BOARD IS MOUNTED ON THE PAVEMENT MARKING EQUIPMENT.

(2) WET PAINT SIGNS ARE INSTALLED TO INDICATE THE SIDE IN WHICH THE PAVEMENT MARKING MATERIAL IS BEING APPLIED. AT THE CONTRACTOR'S OPTION, A FRONT FACING WET PAINT SIGN MAY BE INSTALLED ON THE LEFT SIDE OF THE PAVEMENT MARKING EQUIPMENT.

(3) REAR ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL, OR VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE, OR SPACING SHOWN.

CENTERLINE/EDGELINE STRIPING ON TWO-LANE HIGHWAYS

TRAFFIC CONTROL PLAN
STRIPING
SHEET 8 OF 8

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	63

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

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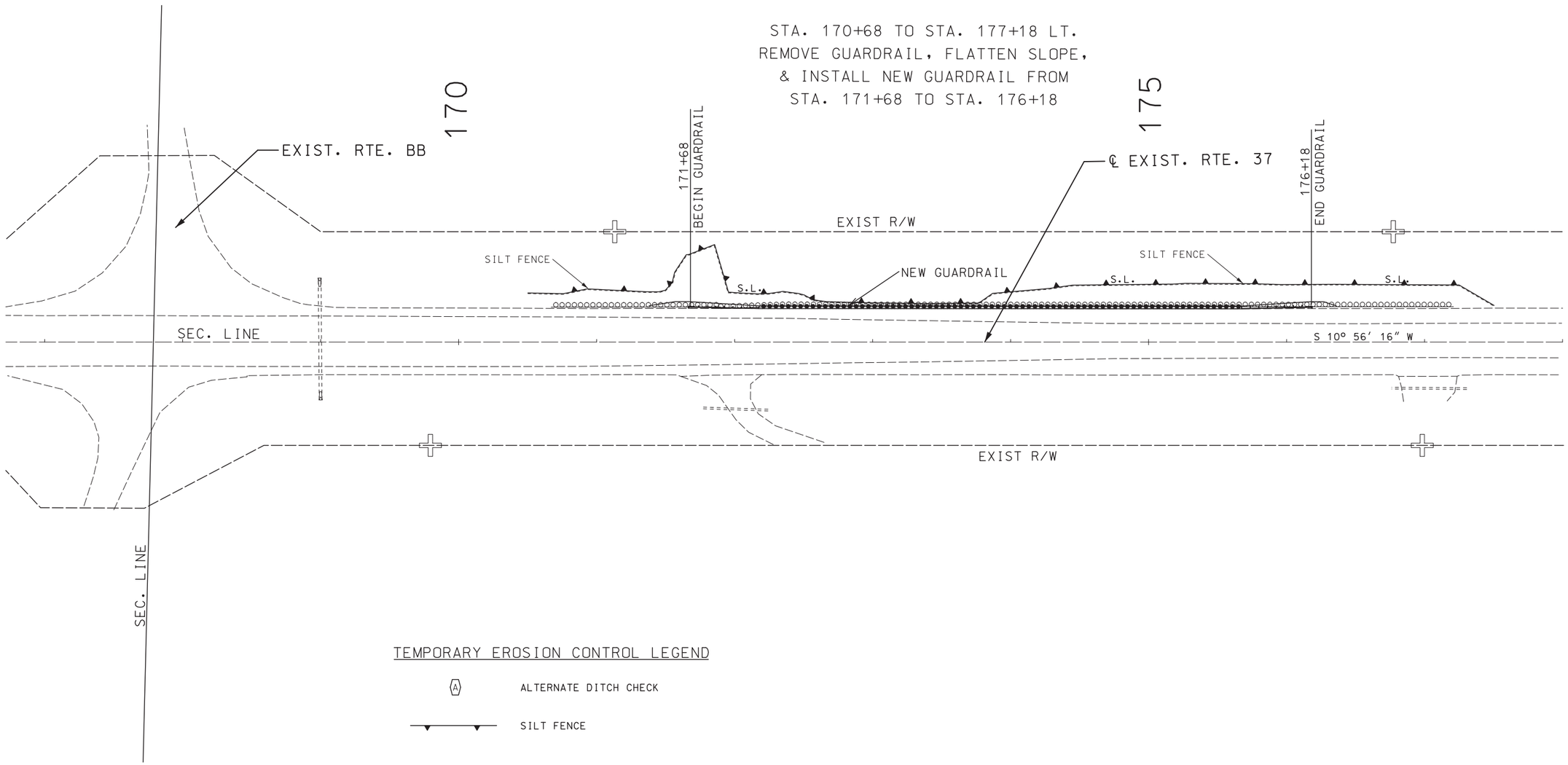
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.

STA. 170+68 TO STA. 177+18 LT.
REMOVE GUARDRAIL, FLATTEN SLOPE,
& INSTALL NEW GUARDRAIL FROM
STA. 171+68 TO STA. 176+18



TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- SILT FENCE

SCALE
0 40 80 120

TEMPORARY EROSION CONTROL
SHEET 1 OF 5

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
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DATE PREPARED 3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	64

COUNTY BARRY
JOB NO. J7P3120
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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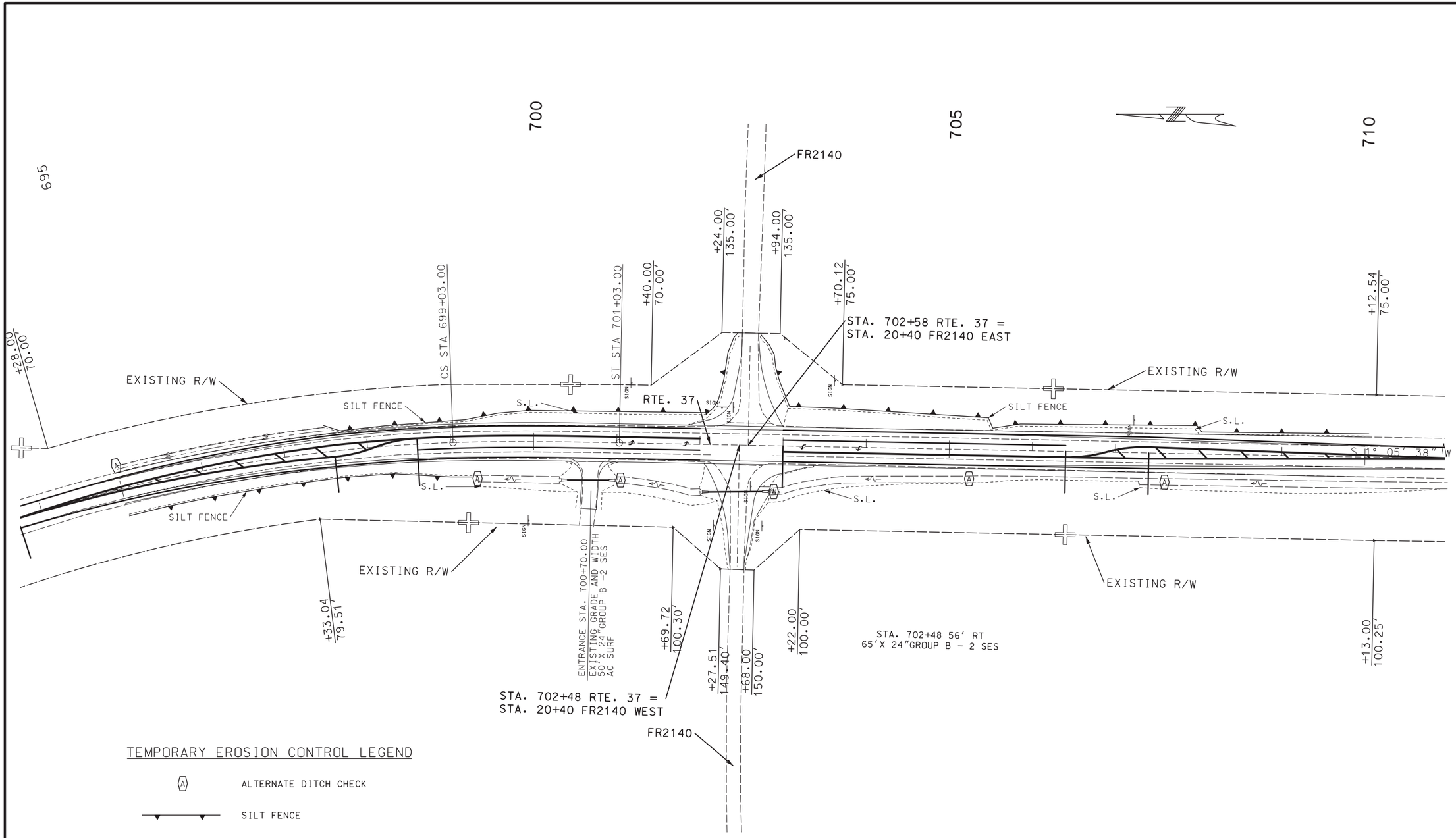
REV.



TEMPORARY EROSION CONTROL LEGEND

(A) ALTERNATE DITCH CHECK

SILT FENCE

SCALE

0 60 120 180

TEMPORARY EROSION CONTROL
AT FARM ROAD 2140
SHEET 2 OF 5

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/17/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	65

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

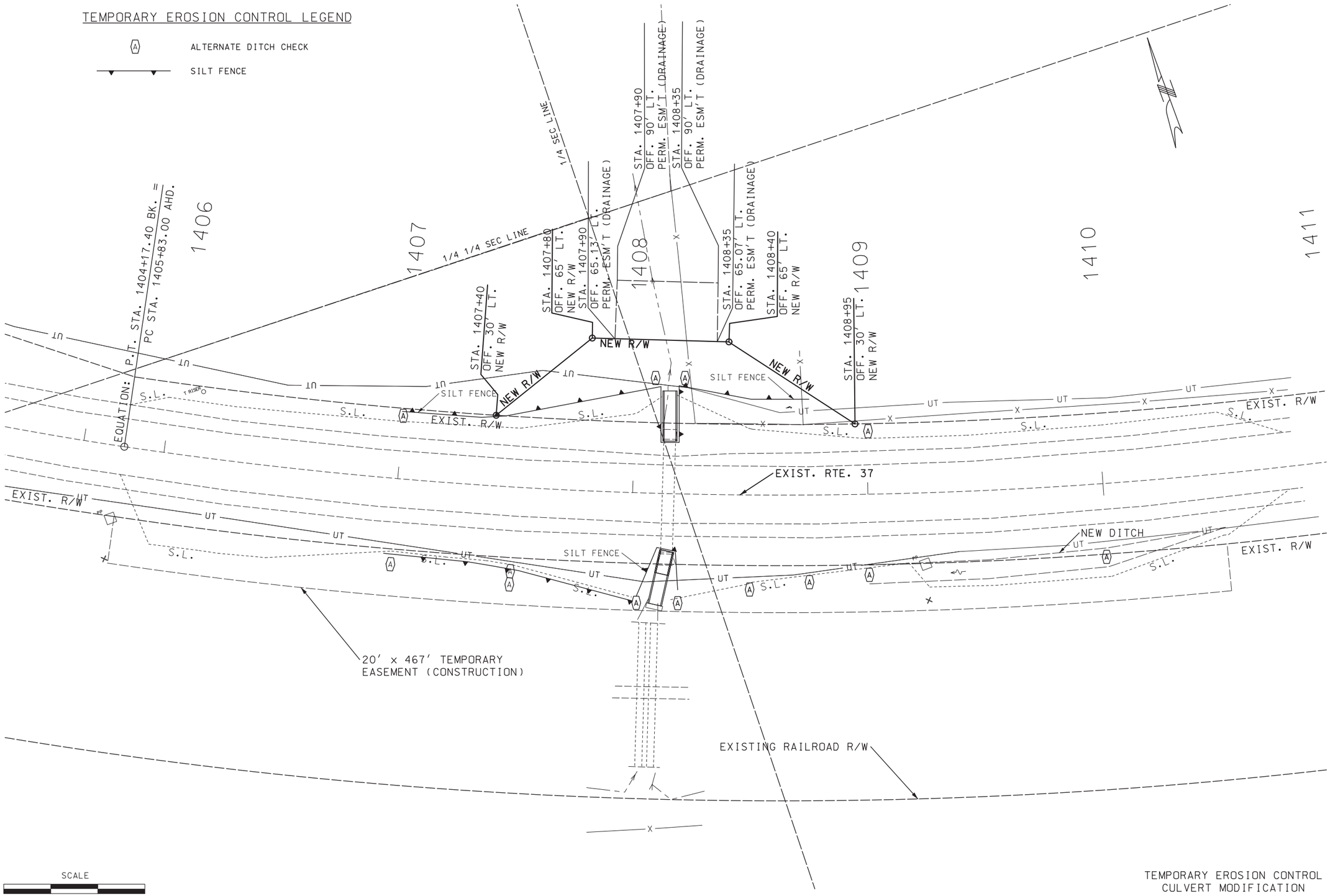
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.

TEMPORARY EROSION CONTROL LEGEND

(A) ALTERNATE DITCH CHECK

SILT FENCE



SCALE

0 20 40 60

TEMPORARY EROSION CONTROL
CULVERT MODIFICATION
STATION 1408+15.11
SHEET 3 OF 5

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
3/16/2020	
ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	66
COUNTY	
BARRY	
JOB NO.	
J7P3120	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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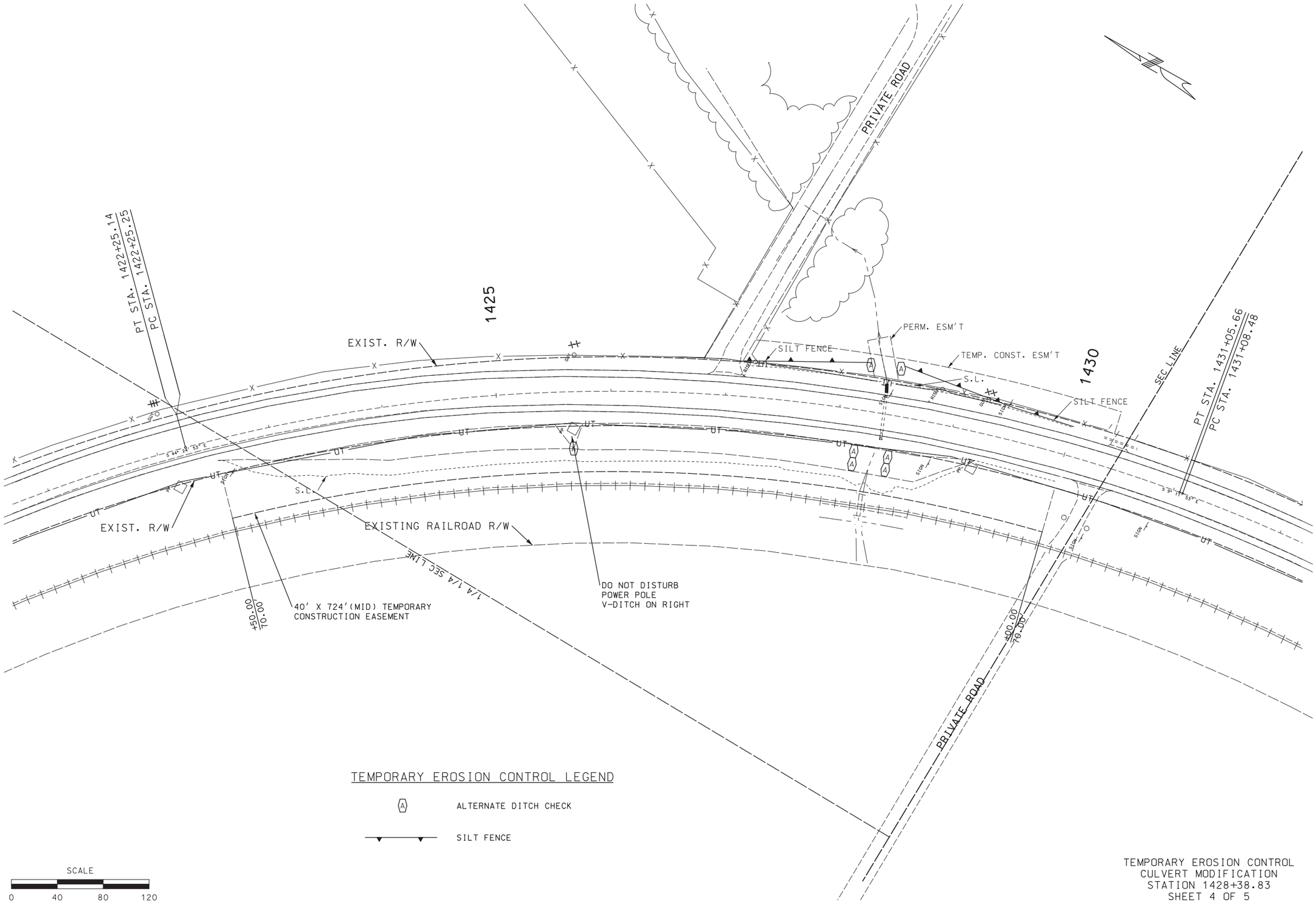

TEMPORARY EROSION CONTROL
CULVERT MODIFICATION
STATION 1428+38.83
SHEET 4 OF 5

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
3/16/2020	
ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	67
COUNTY	
BARRY	
JOB NO.	
J7P3120	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

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105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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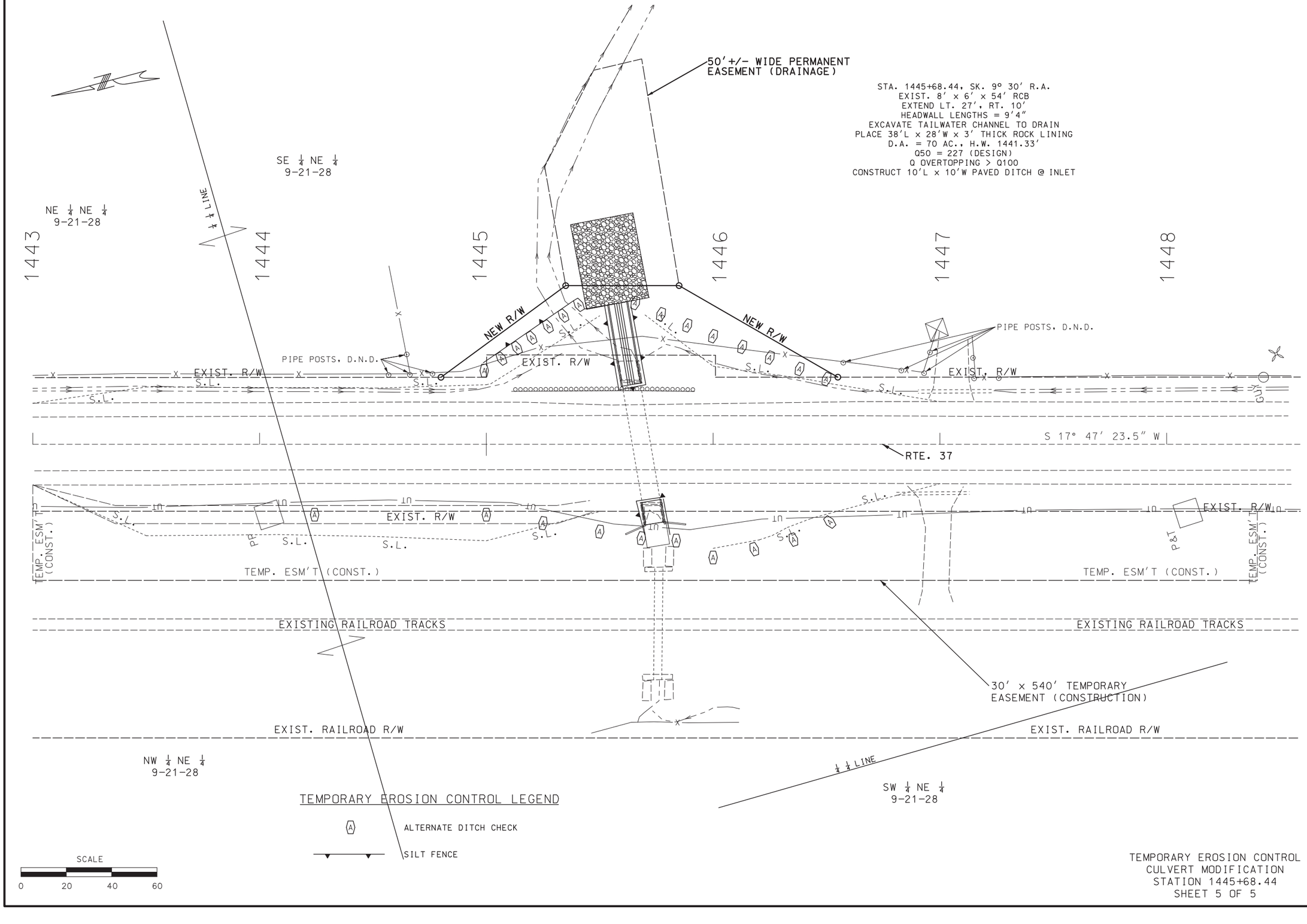


STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	3/16/2020
ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	68
COUNTY	BARRY
JOB NO.	J7P3120
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TEMPORARY EROSION CONTROL
CULVERT MODIFICATION
STATION 1445+68.44
SHEET 5 OF 5

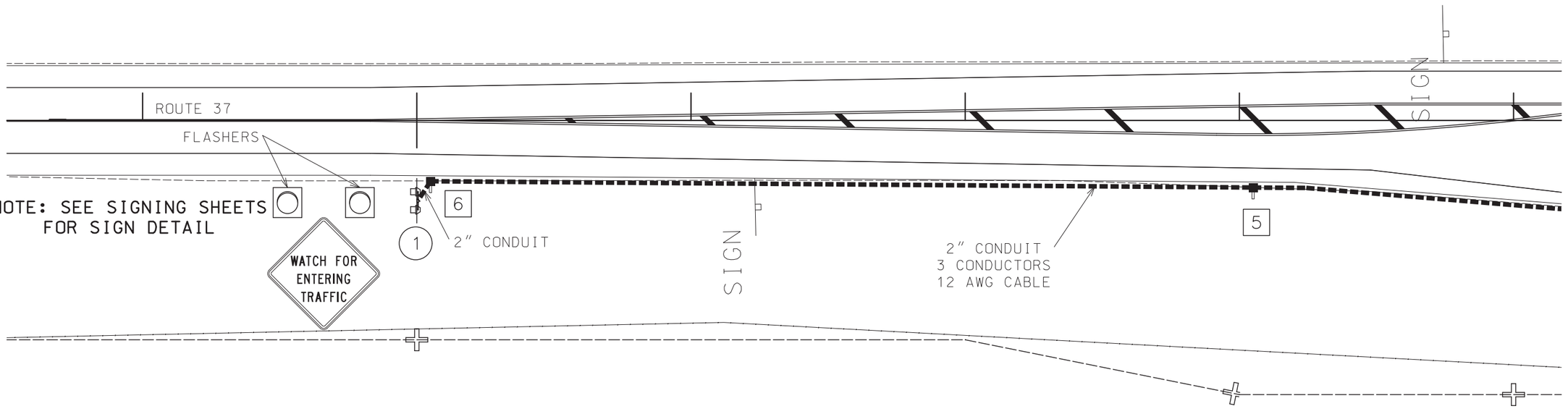
TRAFFIC SIGNALS LEGEND

- CONTROLLER
- POWER SUPPLY
- 120W 45' LED-B LIGHT
- 30 X 6 LOOP DETECTOR
- CONCRETE PULL BOX TYPE 2
- CONDUIT PUSHED
- CONDUIT TRENCHED
- HIGHWAY SIGN W/FLASHERS (SEE DETAIL SHEET)

(X) – LIGHTING

[X] – PULL BOXES

634 635 636 637 638 639



SCALE
0 20 40 60

LIGHTING SHEET
SHEET 1 OF 3

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	69

COUNTY: BARRY
JOB NO.: J7P3120
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION	DATE

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- POWER SUPPLY
- 170W 45' LED-B LIGHT
- 30 X 6 LOOP DETECTOR
- CONCRETE PULL BOX TYPE 2
- CONDUIT PUSHED
- CONDUIT TRENCHED
- HIGHWAY SIGN W/FLASHERS (SEE DETAIL SHEET)

X – LIGHTING

X – PULL BOXES

640 641 642 643 644 468 469 466

ROUTE W

ROUTE 37

FLASHER CONTROLLER

3" CONDUIT

POWER SUPPLY

LIGHTING CONTROLLER

CIRCUITS 1 & 2
1-3" CONDUIT
8 CONDUCTORS
12 AWG CABLE

CIRCUITS 3 THRU 8
1-3" CONDUIT
4 CONDUCTORS 12 AWG
8 CONDUCTORS 14 AWG

CIRCUITS 4 & 7

4" CONDUITS

CIRCUIT 1
2" CONDUIT
2 CONDUCTORS
12 AWG CABLE

CIRCUIT 2
1-2" CONDUIT
4 CONDUCTORS 12 AWG

CIRCUITS 5, 6 & 8
1-2" CONDUIT
2 CONDUCTORS 12 AWG
4 CONDUCTORS 14 AWG

2" CONDUIT
2 CONDUCTORS
12 AWG CABLE

CIRCUIT 3

CIRCUIT 4

CIRCUIT 7

CIRCUIT 5

2 CONDUCTORS

4 CONDUCTORS

CIRCUIT 6

2-2" CONDUIT
2 CONDUCTORS EA.
14 AWG CABLE

CIRCUIT 8

STA. 642+25.0 RTE. 37
STA. 466+97.6 RTE. W

SCALE
0 20 40 60

LIGHTING SHEET
SHEET 2 OF 3

KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
STATE OF MISSOURI
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED: 3/16/2020
ROUTE: 37
STATE: MO
DISTRICT: SW
SHEET NO.: 70
COUNTY: BARRY
JOB NO.: J7P3120
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

DESCRIPTION | DATE | REV.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

TRAFFIC SIGNALS LEGEND

- CONTROLLER
- POWER SUPPLY
- 120W 45' LED-B LIGHT
- 30 X 6 LOOP DETECTOR
- CONCRETE PULL BOX TYPE 2
- CONDUIT PUSHED
- CONDUIT TRENCHED
- HIGHWAY SIGN W/FLASHERS (SEE DETAIL SHEET)

(X) – LIGHTING

[X] – PULL BOXES

645 646 647 648 649 650

NOTE: SEE SIGNING SHEETS FOR SIGN DETAIL

FLASHERS

WATCH FOR ENTERING TRAFFIC

2

2" CONDUIT

12

2" CONDUIT
3 CONDUCTORS
12 AWG CABLE

CIRCUIT 5

11

ROUTE 37

SCALE

0 20 40 60

LIGHTING SHEET
SHEET 3 OF 3

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	71

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

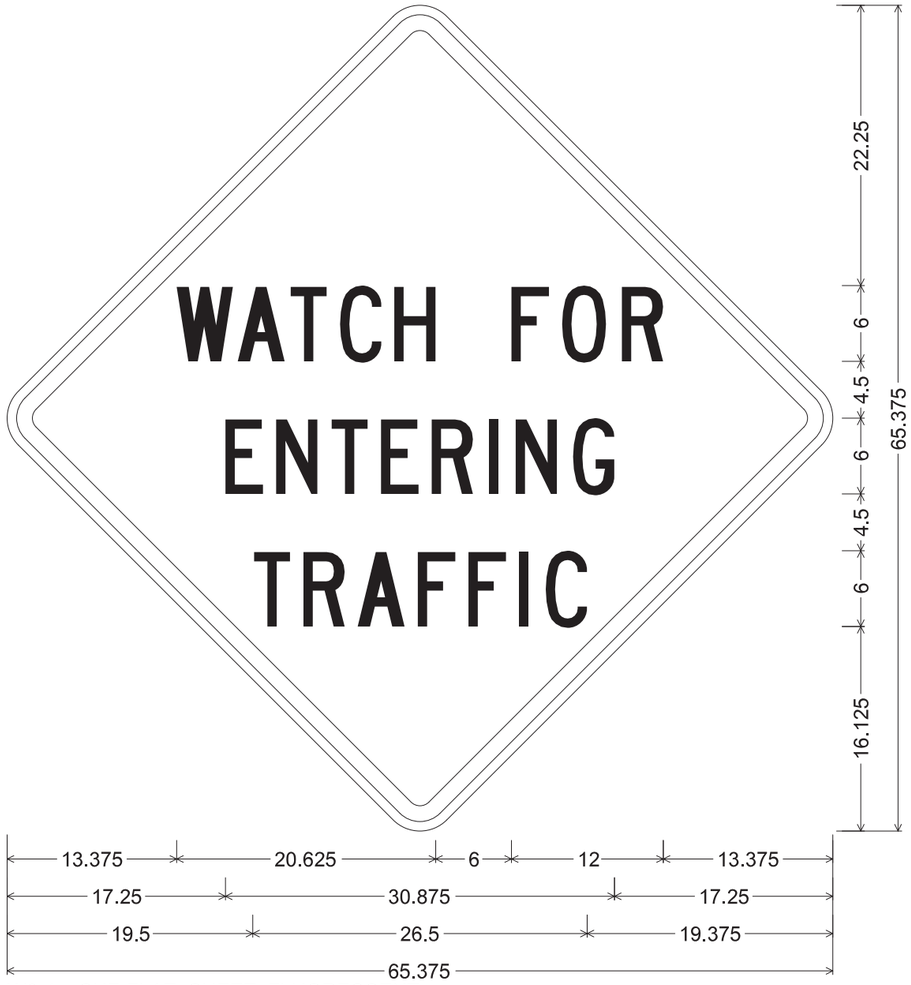
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

REV.



W0-1 SHF-FLAT SHEET FLUORESCENT;
48.000" across sides 3.000" Radius, 1.250" Border, 0.750" Indent, Black on Yellow;
[WATCH FOR] C; [ENTERING] C; [TRAFFIC] C;
Table of letter and object lefts.

W 13.375	A 18.250	T 22.375	C 26.375	H 30.625	F 40.000	O 44.000	R 48.750
E 17.250	N 21.250	T 25.625	E 29.625	R 33.625	I 38.125	N 40.250	G 44.875
T 19.500	R 23.500	A 27.750	F 32.500	F 36.500	I 40.500	C 42.625	

SIGNS 1 & 2

NOT TO SCALE

SIGNING SHEET
SHEET 1 OF 3

STATE OF MISSOURI
KRISTI
BACHMAN
NUMBER
PE-2003014941
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	72

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.

EFFECTIVE 10-01-2016

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	STATION	LOCATION	TYPE: SIGN DESCRIPTION, SIZES & NUMBER OF EACH (WATCH FOR ENTERING TRAFFIC 48")
1	635+00.00	RTE 37 RT	1
2	650+00.00	RTE 37 LT	1

SIGN SUMMARY

STANDARD SIGN OR SPECIAL SIGN NUMBER	SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQUARE FEET: SIZE	FLAT SHEET SH ITEM NO. 9035004A	FLAT SHEET FLUORESCENT SHF * ITEM NO. 9035069A	STRUCTURAL ST ITEM NO. 9035011A	STRUCTURAL FLUORESCENT STF * ITEM NO. 9035071A
1,2 "WATCH FOR ENTERING TRAFFIC"		2	48x48		32		
			TOTAL		32		

* YELLOW

SIGNING SHEET
SHEET 2 OF 3

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

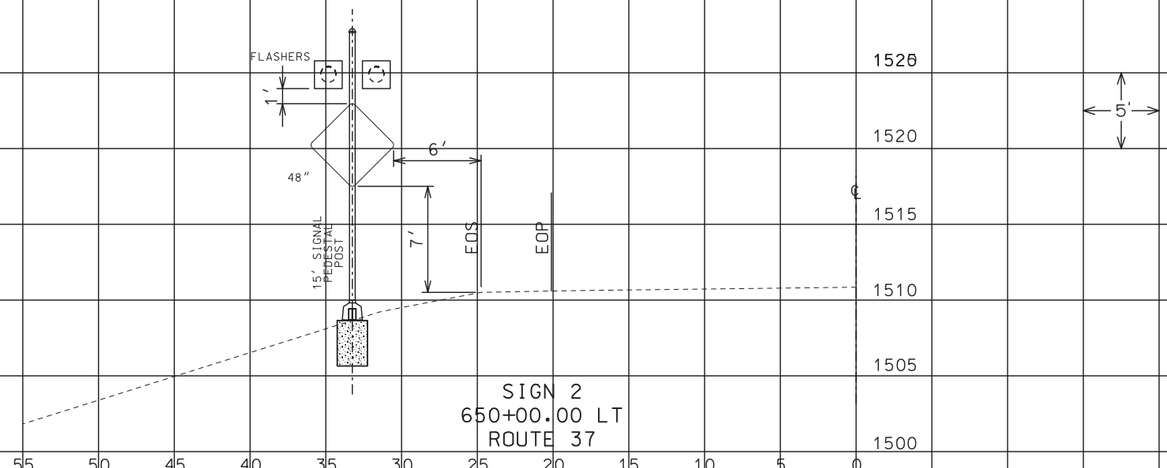
DATE PREPARED 3/16/2020
ROUTE 37 | STATE MO
DISTRICT SW | SHEET NO. 73
COUNTY BARRY
JOB NO. J7P3120
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION
DATE

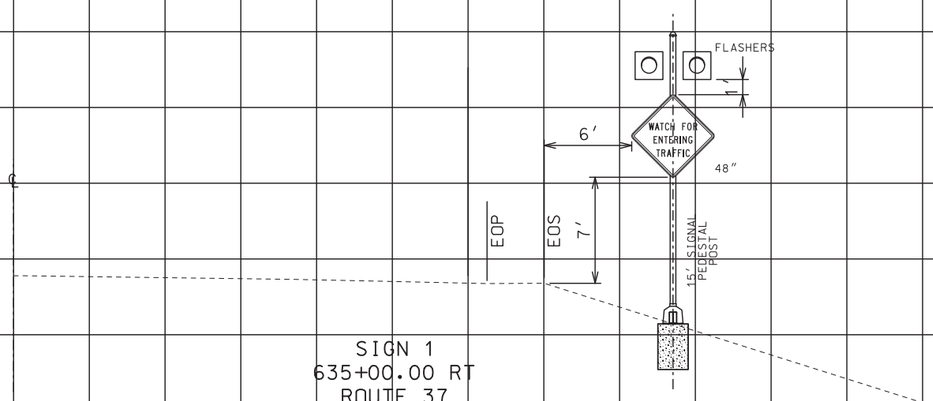
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
MoDOT
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.



SIGN 2
650+00.00 LT
ROUTE 37



SIGN 1
635+00.00 RT
ROUTE 37

SIGNING SHEET
SHEET 3 OF 3

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	74

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

PROJECT NO.

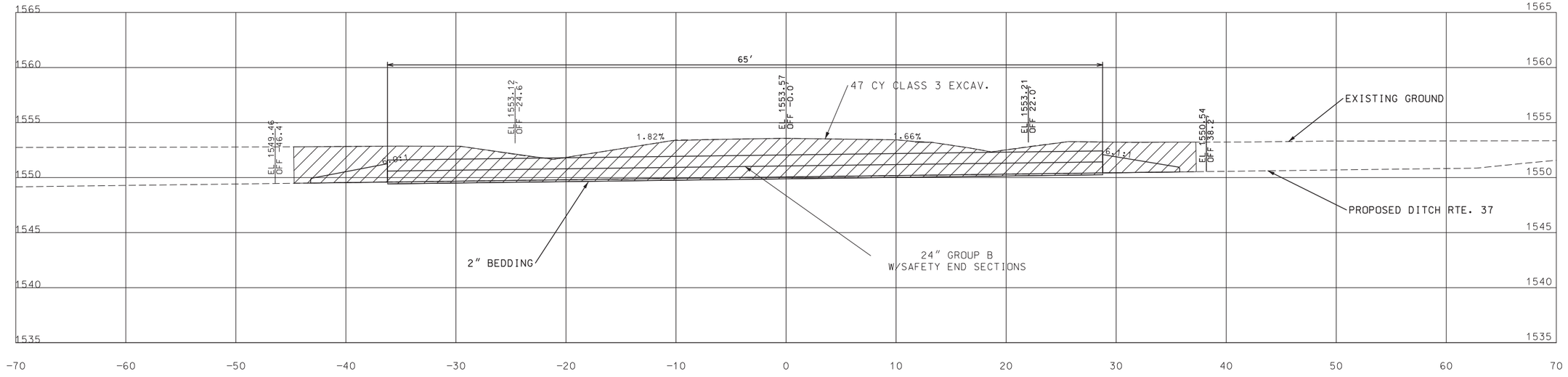
BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

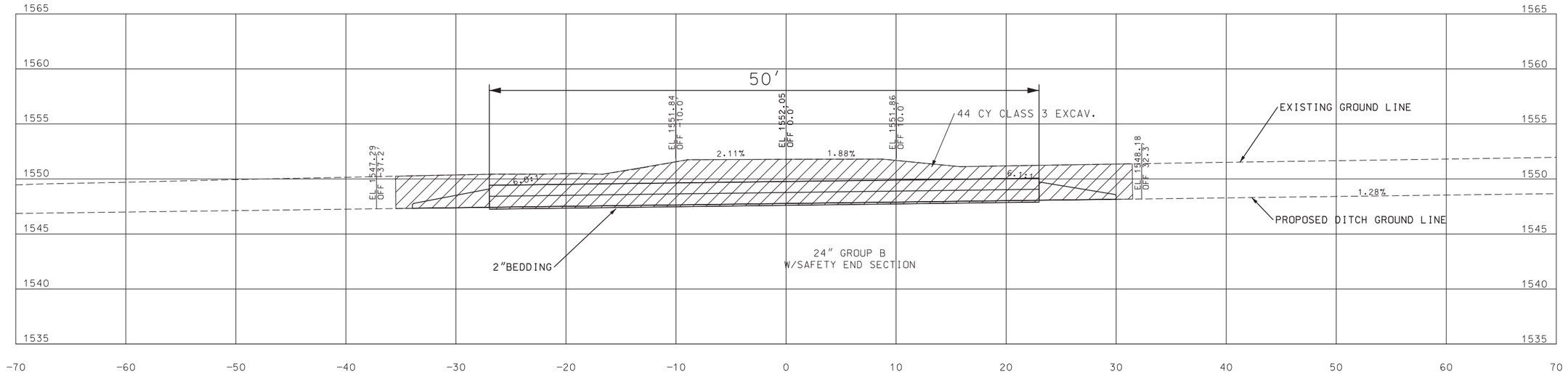
REV.	DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



STA. 19+83.88 FR2140 WEST OF
RTE. 37 AT STA. 702+48



STA. 0+54.52 DRIVEWAY RIGHT OF
RTE. 37 AT STA. 700+70

CULVERT SECTIONS
SHEET 1 OF 4

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	75

COUNTY
BARRY

JOB NO.
J7P3120

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

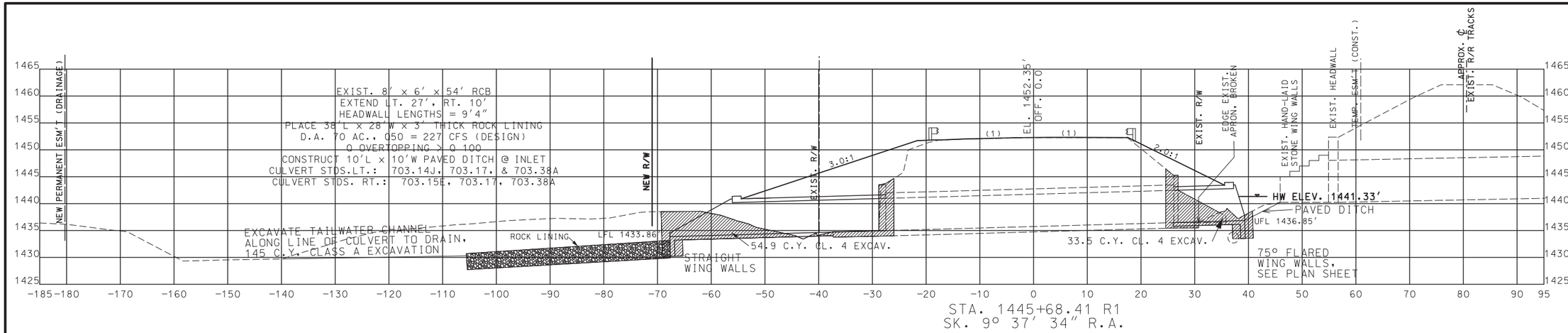
DESCRIPTION

DATE

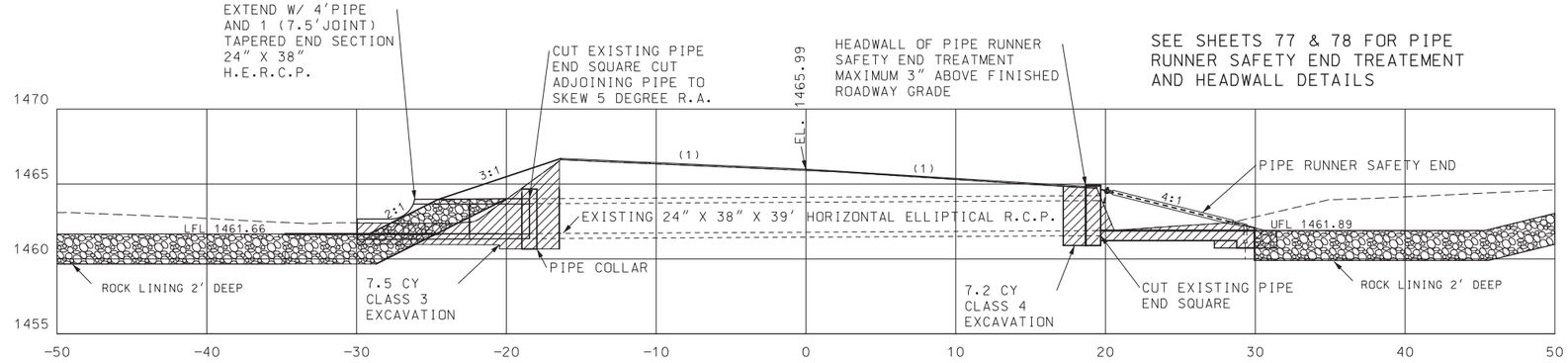
REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

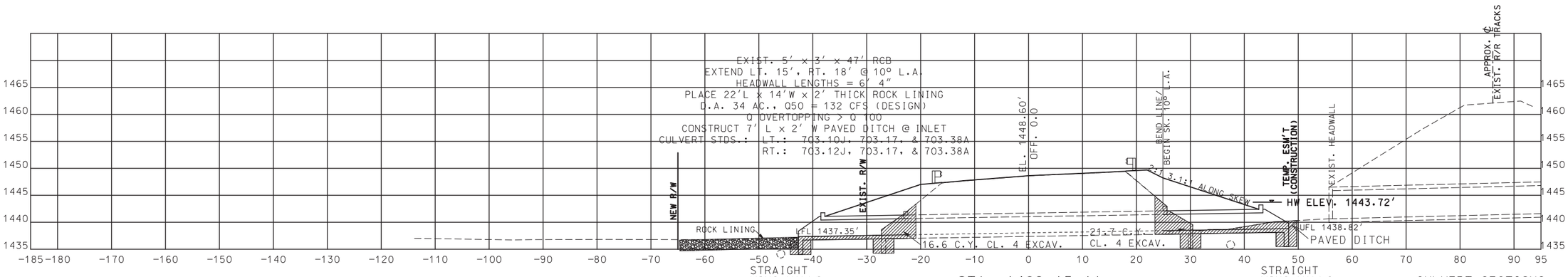


STA. 1445+68.41 R1
SK. 9° 37' 34" R.A.



STA. 1428+38.83

STA. 1428+38.83
EXIST 24" X 38" X 39' H.E.R.C.P.
SQUARE LT & RT EXISTING ENDS (SAWCUT)
EXTEND LT W/PIPE COLLAR 4' PIPE AND
1 TAPER END SECTION 24" X 38" H.E.R.C.P.
CLASS 3 EXC 7.5 CY
PLACE RT HEADWALL FOR PIPE RUNNER SAFETY END TRMT.
1 PIPE RUNNER SAFETY END TREATMENT
CLASS 4 EXCAVATION 7.2 CY
D.A. 14.5 AC Q25=21.5 CFS
OVERTOPING FLOW > Q100



STA. 1408+15.11
SQUARE, SK. 10° L.A. BEGINNING 24.92' RT.

LEGEND:
◌ EXIST. UT. OFFSET APPROX., DEPTH UNKNOWN
(1) MATCH EXIST.

CULVERT SECTIONS
SHEET 2 OF 4

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/19/2020

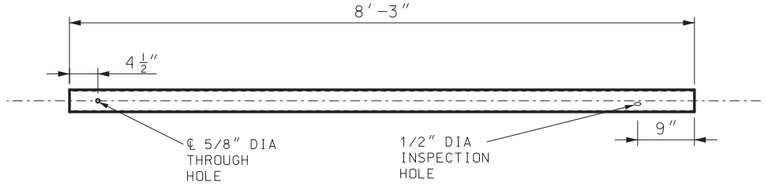
ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	76

COUNTY: BARRY
JOB NO.: J7P3120
CONTRACT ID.:
PROJECT NO.:
BRIDGE NO.:

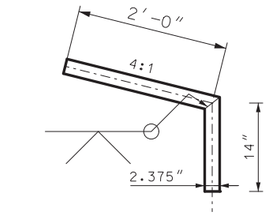
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.	DESCRIPTION	DATE

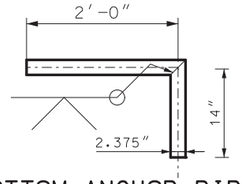
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



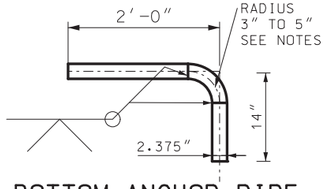
PIPE RUNNER



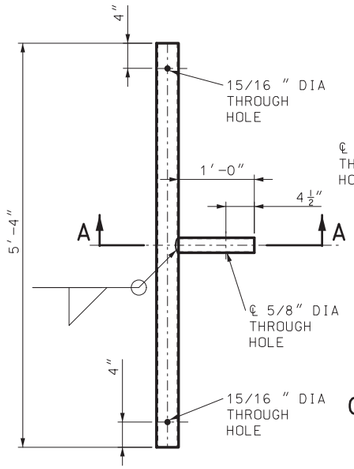
BOTTOM ANCHOR PIPE



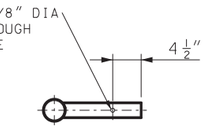
BOTTOM ANCHOR PIPE ALTERNATE A



BOTTOM ANCHOR PIPE ALTERNATE B



CROSS PIPE AND STUB OUT



SECTION A–A

CROSS PIPE SHALL BE THE SAME SIZE AS THE PIPE RUNNER.
CROSS PIPE STUB OUT SHALL BE THE SAME SIZE AS THE ANCHOR PIPE.

ACTUAL SLOPE OF THE SAFETY PIPE RUNNER AND WING WALL MAY VARY SLIGHTLY FROM THE ADJACENT SIDE SLOPE.

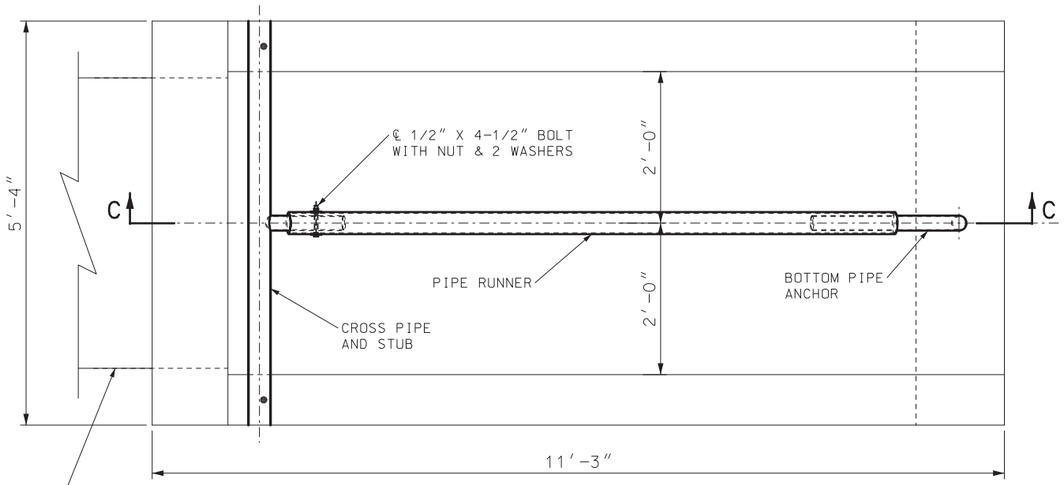
CROSS PIPE END SHOULD BE PROTECTED OR CLEANED OF ANY CONCRETE FLOW INTO THE CROSS PIPE TO PERMIT DISASSEMBLY OF THE BOLTED CONNECTION FOR CLEAN OUT ACCESS AND REPAIR.

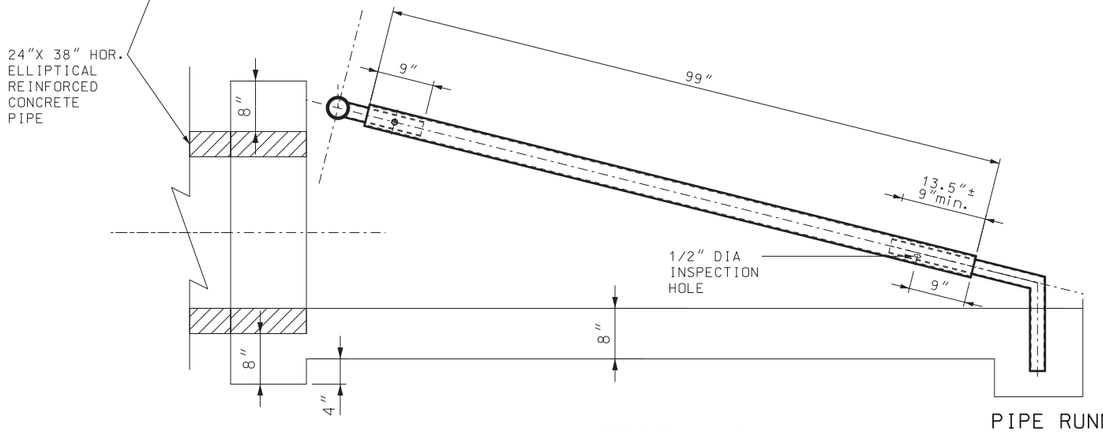
½″ DIAMETER PIPE RUNNER INSPECTION HOLE LOCATED 9 INCHES FROM THE LOWER END OF THE PIPE RUNNER SHALL BE INSPECTED TO INSURE 9 INCH MINIMUM INSERTION OF ANCHOR PIPE IN PIPE RUNNER IS MAINTAINED UPON FINAL ASSEMBLY.

A HEAT BEND TO A SMOOTH 5 INCH RADIUS OR A MANUFACTURED ELBOW OF MINIMUM 3 INCH RADIUS OFTHE MATERIAL SPECIFIED MAY BE SUBSTITUTED FOR THE MITERED AND WELDED JOINT IN THE BOTTOM OF ANCHOR PIPE.

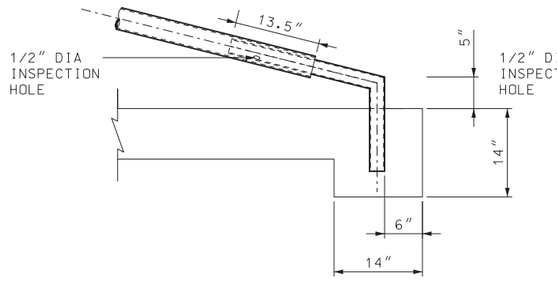
MAXIMUM PIPE RUNNER LENGTH & REQUIRED PIPE RUNNER AND ANCHOR PIPE SIZE

MAXIMUM PIPE RUNNER LENGTH	REQUIRED PIPE RUNNER SIZE			REQUIRED ANCHOR PIPE SIZE		
	PIPE SIZE	PIPE O.D.	PIPE I.D.	PIPE SIZE	PIPE O.D.	PIPE I.D.
10′-0″	3″ STD	3.500″	3.068″	2″ STD	2.375″	2.067″

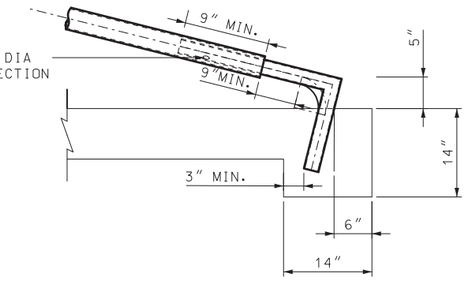




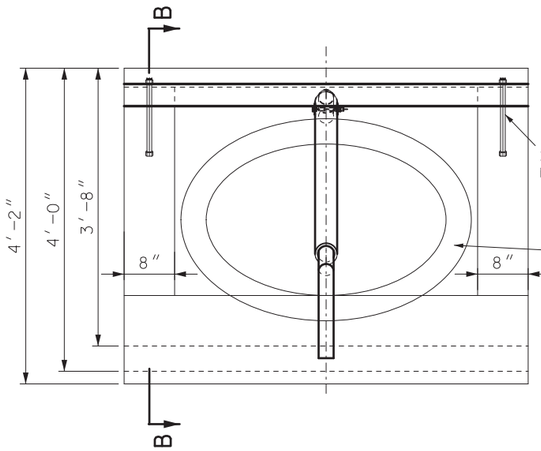
SECTION C–C

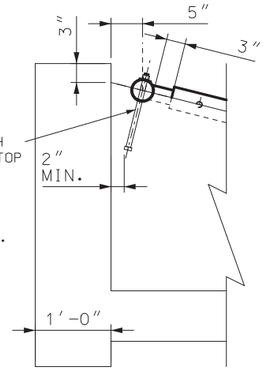


BOTTOM ANCHOR TOEWALL



BOTTOM ANCHOR TOEWALL ALTERNATE A OR B





SECTION B–B

PIPE RUNNER SAFETY END TREATMENT AND HEADWALL FOR ELLIPTICAL PIPE AT STA.1428+38.83

CULVERT SHEET
PIPE DETAIL
SHEET 3 OF 4

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/19/2020

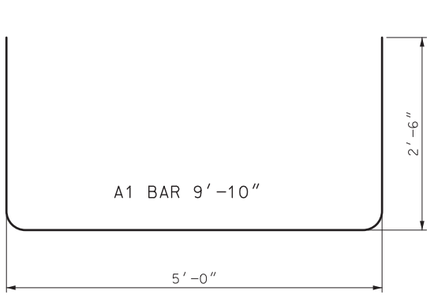
ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	77

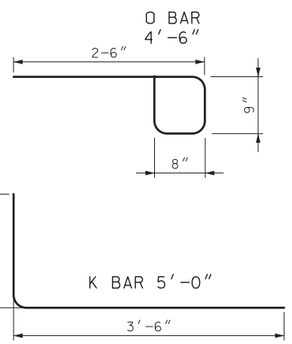
COUNTY BARRY
JOB NO. J7P3120
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

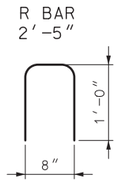
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

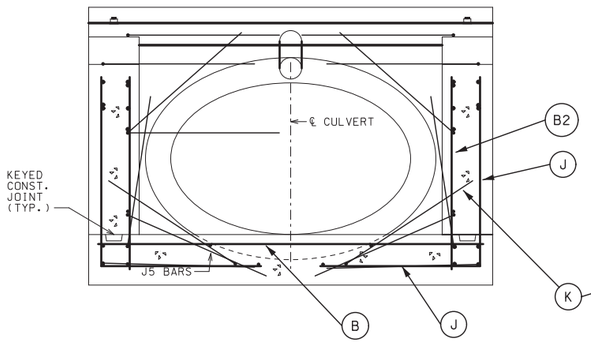
DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

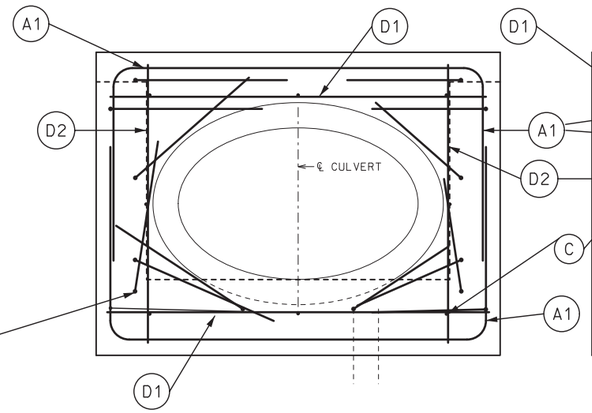




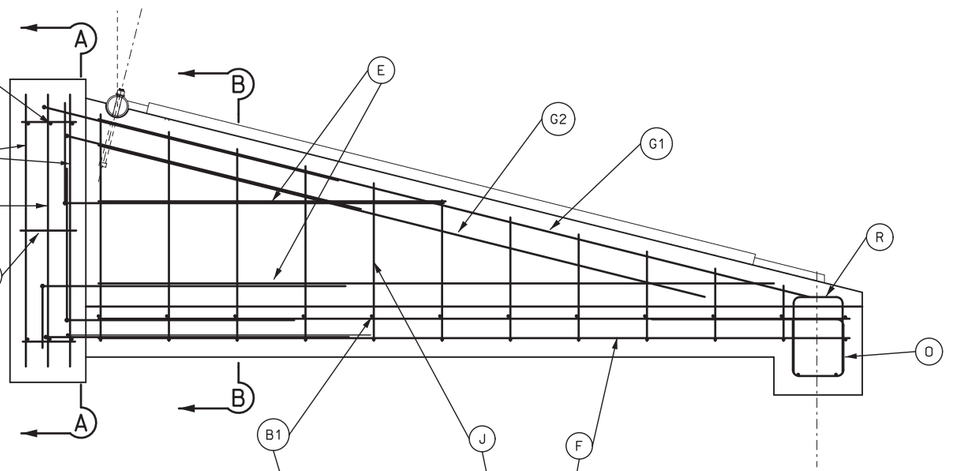




SECTION B–B



SECTION A–A



BARBILL						
BAR	SIZE	LENGTH FEET	NUMBER	WEIGHT LBS	SPACING INCHES	COMMENT
A1	#6	9.83	4	59.1	7″	HEADWALL COLLAR BARS
B1	#4	5.00	15	50.1	AS PLACED	BOTTOM CROSS BARS
B2	#4	VARIES	22	28.2	11″	WING VERT BARS VARIOUS LENGTH TOTAL 42′-3″
C	#4	0.75	8	4.0	AS PLACED	CTR AND INT OF D1 &D2 BARS
D1	#4	5.00	6	20.0	3.5″	HEADWALL COLLAR BARS
D2	#4	3.67	6	14.7	3.5″	HEADWALL COLLAR BARS
E	#4	VARIES	4	18.0	12″	WING LONG BARS: 4′-7″ TOP AND 8′-11″ BOTTOM
F	#4	10.00	7	46.8	AS PLACED	BOTTOM LONG BARS
G1	#6	9.67	4	58.1	4″	TOP OF WINGWALL BARS
G2	#6	8.25	4	49.6	4″	TOP OF WINGWALL BARS
J	#4	VARIES	22	57.6	11″	OUTSIDE BOTTOM TO WING TIE BARS LENTH TOTAL 86′-3″
K	#4	5.00	14	46.8	AS PLACED	HEADWALL TO END SEC TIE BARS
O	#4	4.48	8	23.9	AS PLACED	TOE COLLAR BARS
R	#4	2.42	4	6.5	3.5″	TOE TO WING TIE STIRRUP BARS
			TOTAL	483.4		
			USE	490 LBS		

REBAR LAYOUT FOR
END TREATMENT OF
ELLIPTICAL PIPE
AT STA.1428+38.83

CULVERT SHEET
PIPE END DETAIL
SHEET 4 OF 4

STATE OF MISSOURI
KRISTI BACHMAN
NUMBER PE-2003014941
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 3/16/2020

ROUTE	STATE
37	MO
DISTRICT	SHEET NO.
SW	78

COUNTY BARRY
JOB NO. J703120
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

DESCRIPTION | DATE | REV.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)


General - looking west
HICKORY CREEK

A0333 - Newton - 9/17/2021 US 60 over Hickory Creek




East abut. bearings
moderate pack rust.


Deck haunch broken
@ east abut.

Bottom Sp. 3 - 2% saturation.

A0333 - Newton - 9/17/2021

US 60 over Hickory Creek



A0333 - Newton - 9/17/2021

US 60 over Hickory Creek




Bottom Sp. 1 -
5% saturation.


Repair deck spalls
15 sf EB lane.


East abut. exp. joint -
nosing spall / moderate
leaking.

Bridge Number: A0333R

Route/County: US 60/Newton

Asbestos-Containing Material Present?

Yes: ☐ No: ☒

If yes, see report for location(s).

Structural Steel Present?

Yes: ☒ No: ☐

If No, then skip the following.

Lead-Based Paint (LBP) Present?

Yes: ☒ No: ☐

Trusses LBP?

Yes: ☐ No: ☐

Girder LBP?

Yes: ☒ No: ☐

Railing LBP?

Yes: ☐ No: ☒

Galvanized

Pile LBP?

Yes: ☐ No: ☐

MEMORANDUM

Missouri Department of Transportation
Construction and Materials
Central Laboratory

TO: TMS

FROM: Diane Roegge
Environmental Chemist

DATE: November 14, 2017

SUBJECT: Materials
Asbestos Inspection & Heavy Metal Paint Survey
Route US 60
Bridge A-0333R
Newton County

We are providing you with the results of the inspection on the above referenced bridge. The inspection report contains an asbestos and a heavy metals survey. The asbestos inspection included identifying suspect asbestos-containing material and NVLAP accredited testing to confirm the presence of asbestos.

Form T746 – This will show if samples were taken, where from, and, if the sample was found to contain asbestos, our estimated quantity of material present. Under the column "Friability Category", this is the meaning for the following:

N-ACM – No asbestos detected.
I NF – Asbestos is present. Material shall be handled carefully by a licensed abatement worker and kept wet if removing as part of a maintenance activity.
II NF – Asbestos is present. If removal is required for the maintenance activity, use an abatement contractor.

In accordance with Missouri Department of Natural Resources' Technical Bulletin "Managing Construction and Demolition Waste" dated January 31, 2003, a heavy metal paint survey has been performed on the above referenced bridge. This survey includes locating concrete which has been painted with something other than traffic paint or graffiti, and testing the painted surface(s) to determine if hazardous heavy metals are present. If the bridge is being removed completely, or the maintenance repairs include removing the painted concrete, then, non-hazardous painted concrete may be used as clean fill materials, if properly handled. You must contact the Central Office Design Division for proper handling of the reported painted surfaces.

Although our survey included observing and sampling all accessible areas, it is possible that potentially hidden asbestos-containing materials may exist within the structure. Should you have any questions regarding these reports, please contact me at (573) 526-4359.

db/fr/dr
http://sharepoint/systemdelivery/cm/chemicallab/environmental/shared documents/asbestos/districts/southwest (sw)/mt/a0333r/dr17111402.docx
Attachments

MISSOURI DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND MATERIALS
Asbestos Survey Report
All Suspect ACM

ROUTE: US 60
MODOT JOB NO.: N/A
DISTRICT: SW
COUNTY: Newton
DATE OF SURVEY: November 14, 2017
PARCEL NO.: Bridge A-0333R

SURVEYED BY: Diane Roegge DR
CERTIFICATION #: 7119101817MOIR7165
SITE ADDRESS: Over Hickory Creek
TYPE(S) OF STRUCTURE(S): Bridge

Sample ID	Type of Materials	Location of Material	Friability Category	Field Measure
	No samples taken. No suspect ACM located.			
	Bridge Paint is not a suspect ACM per MSDS's on file.			

N-ACM = Non-Asbestos Containing Material I NF = Category I Nonfriable II NF = Category II Nonfriable F = Friable
NAFD = No Asbestos Fiber Detected * = Tested By Point Count Procedure

MISSOURI DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND MATERIALS
Asbestos Survey Report
Nonfriable Asbestos-Containing Materials
(Abatement not required if not made friable during demolition.)

ROUTE:	US 60	**TESTED BY:**	Diane Roegge
MODOT JOB NO.:	N/A	**CERTIFICATION #:**	7119101817MOIR7165
DISTRICT:	SW	**SITE ADDRESS:**	Over Hickory Creek
COUNTY:	Newton	**TYPE(S) OF STRUCTURE(S):**	Bridge
DATE OF TESTS:	N/A		
PARCEL NO.:	Bridge A-0333R		

Sample ID	Type of Material	Location of Material	Friability Category	Field Measure	Asbestos Type	Percent
		None Located	I NF			

All necessary work to handle this material is the contractor's responsibility.

I NF = Category I Nonfriable

MISSOURI DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND MATERIALS
Asbestos Survey Report
All materials requiring removal or special handling.

ROUTE:	US 60	**TESTED BY:**	Diane Roegge
MODOT JOB NO.:	N/A	**CERTIFICATION #:**	7119101817MOIR7165
DISTRICT:	SW	**SITE ADDRESS:**	Over Hickory Creek
COUNTY:	Newton	**TYPE(S) OF STRUCTURE(S):**	Bridge
DATE OF TESTS:	N/A		
PARCEL NO.:	Bridge A-0333R		

Bid Item No.	Sample ID	Type of Material	Location of Material	Friability Category	Field Measure	Asbestos Type	Percent
			None Located	II NF			
			None Located	F			

I NF = Category I Nonfriable II NF = Category II Nonfriable F = Friable * = Tested By Point Count Procedure

MISSOURI DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND MATERIALS
Metals Survey Report of Painted Concrete, Block, Brick Surfaces for Clean Fill Purposes

ROUTE:	US 60	**TESTED BY:**	N/A
MODOT JOB NO.:	N/A	**DATE OF TESTS:**	N/A
DISTRICT:	SW	**PARCEL NO.:**	Bridge A-0333R
COUNTY:	Newton	**SITE ADDRESS:**	Over Hickory Creek
SURVEYED BY:	Diane Roegge	**TYPE(S) OF STRUCTURE(S):**	Bridge
DATE OF SURVEY:	November 14, 2017		

Sample ID	Color/Location of Material/Substrate	Metals (ppm)							
		As	Cr	Pb	Cd	Se	Ba	Hg	Ag
	No samples taken. No painted surfaces located.								

All results are by XRF unless otherwise indicated: a = USEPA SW-846 Method 3050
b = USEPA SW-846 Method 7471

MEMORANDUM

Missouri Department of Transportation
Construction and Materials
Central Laboratory

TO: TMS

CC:

FROM: Diane Roegge DR
Environmental Chemist, Lead License #110506-300003365

DATE: November 16, 2017

SUBJECT: Materials
Job No. N/A
US 60/Newton County
Bridge A-0333R

On November 14, 2017, a paint screening for regulated heavy metals was performed on the subject bridge. The following results were obtained:

	17MD1R898
Arsenic (As)	LOD*
Chromium (Cr)	LOD
Lead (Pb)	172,117 ppm** (17.2%)
Cadmium (Cd)	144 ppm
Selenium (Se)	LOD
Barium (Ba)	3,251 ppm (0.3%)
Mercury (Hg)	LOD
Silver (Ag)	LOD

*LOD = below the detection limit of the instrument **ppm = parts per million

TMS paint data did not indicate what system paint was under the System S paint, applied in 2005. The results indicate a System A as the original paint system.

The existing paint system is lead-based paint (LBP). Therefore any painting project will be subject to DHSS notification and regulation.

Should any further screenings be required, please contact Todd Bennett, Chemical Laboratory Director, at (573) 751-1045. Should you have any questions regarding the screenings, feel free to call me at (573) 526-4359.

fr/dr
http://sharepoint/systemdelivery/cm/chemicallab/environmental/shared documents/asbestos/districts/southwest (sw)/mt/a0333r/lbp a0333r.docx

CERTIFICATION NUMBER:

7119101817MOIR7165

THIS CERTIFIES

Diane R Roegge

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

Inspector



APPROVED: **10/23/2017**

EXPIRES: **10/23/2018**

TRAINING DATE: **10/18/2017**

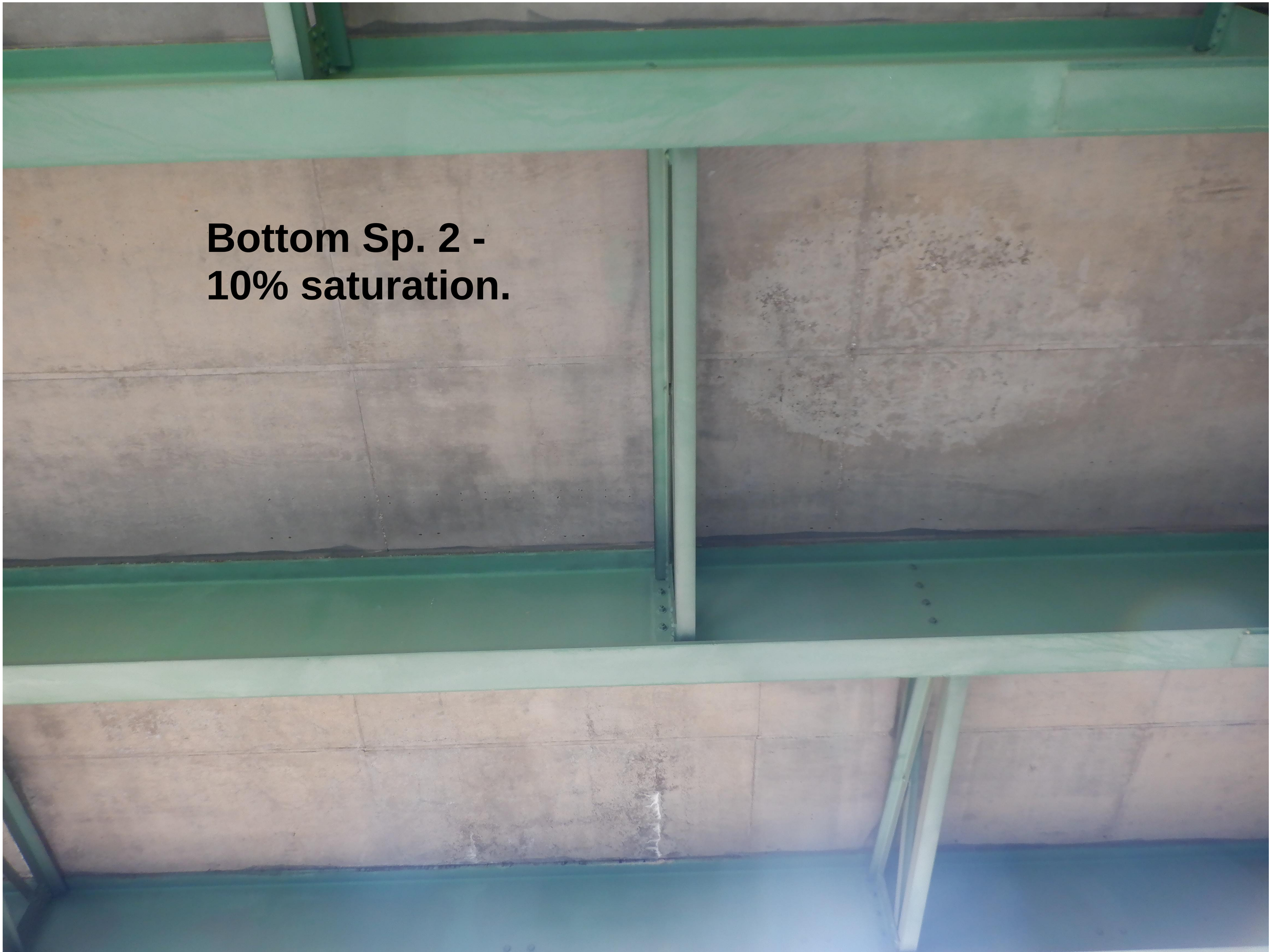
Kyra L Moore

Director of Air Pollution Control Program

A0334 - Newton - 9/10/2021

US 60 over KCS RR




Bottom Sp. 2 -
10% saturation.


Bottom Sp. 1 -
20% saturation.

General - looking east



A0334 - Newton - 9/10/2021

US 60 over KCS RR



A0334 - Newton - 9/10/2021 US 60 over KCS RR



Bottom Sp. 4 -
30% saturation.

A0334 - Newton - 9/10/2021 US 60 over KCS RR



A0334 - Newton - 9/10/2021 US 60 over KCS RR



Bridge Number: A0334R

Route/County: US 60/Newton

Asbestos-Containing Material Present?

Yes: ☐ No: ☒

If yes, see report for location(s).

Structural Steel Present?

Yes: ☒ No: ☐

If No, then skip the following.

Lead-Based Paint (LBP) Present?

Yes: ☐ No: ☒

Trusses LBP?

Yes: ☐ No: ☐

Girder LBP?

Yes: ☐ No: ☒

Railing LBP?

Yes: ☐ No: ☒

Galvanized

Pile LBP?

Yes: ☐ No: ☐

MEMORANDUM

Missouri Department of Transportation
Construction and Materials
Central Laboratory

TO: TMS

FROM: Diane Roegge Diane Roegge
Environmental Chemist

DATE: November 14, 2017

SUBJECT: Materials
Asbestos Inspection & Heavy Metal Paint Survey
Route US 60
Bridge A-0334R
Newton County

We are providing you with the results of the inspection on the above referenced bridge. The inspection report contains an asbestos and a heavy metals survey. The asbestos inspection included identifying suspect asbestos-containing material and NVLAP accredited testing to confirm the presence of asbestos.

Form T746 – This will show if samples were taken, where from, and, if the sample was found to contain asbestos, our estimated quantity of material present. Under the column "Friability Category", this is the meaning for the following:

N-ACM – No asbestos detected.
I NF – Asbestos is present. Material shall be handled carefully by a licensed abatement worker and kept wet if removing as part of a maintenance activity.
II NF – Asbestos is present. If removal is required for the maintenance activity, use an abatement contractor.

In accordance with Missouri Department of Natural Resources' Technical Bulletin "Managing Construction and Demolition Waste" dated January 31, 2003, a heavy metal paint survey has been performed on the above referenced bridge. This survey includes locating concrete which has been painted with something other than traffic paint or graffiti, and testing the painted surface(s) to determine if hazardous heavy metals are present. If the bridge is being removed completely, or the maintenance repairs include removing the painted concrete, then, non-hazardous painted concrete may be used as clean fill materials, if properly handled. You must contact the Central Office Design Division for proper handling of the reported painted surfaces.

Although our survey included observing and sampling all accessible areas, it is possible that potentially hidden asbestos-containing materials may exist within the structure. Should you have any questions regarding these reports, please contact me at (573) 526-4359.

db/fr/dr
http://sharepoint/systemdelivery/cm/chemicallab/environmental/shared documents/asbestos/districts/southwest (sw)/mt/a0334r/dr17111401.docx
Attachments

MISSOURI DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND MATERIALS
Asbestos Survey Report
All Suspect ACM

ROUTE:	US 60	**SURVEYED BY:**	Diane Roegge
MODOT JOB NO.:	N/A	**CERTIFICATION #:**	7119101817MOIR7165
DISTRICT:	SW	**SITE ADDRESS:**	Over Pineville Rd & KCS Railroad
COUNTY:	Newton	**TYPE(S) OF STRUCTURE(S):**	Bridge
DATE OF SURVEY:	November 14, 2017		
PARCEL NO.:	Bridge A-0334R		

Sample ID	Type of Materials	Location of Material	Friability Category	Field Measure
	No samples taken. No suspect ACM located.			
	Bridge Paint is not a suspect ACM per MSDS's on file.			

N-ACM = Non-Asbestos Containing Material I NF = Category I Nonfriable II NF = Category II Nonfriable F = Friable
NAFD = No Asbestos Fiber Detected * = Tested By Point Count Procedure

MISSOURI DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND MATERIALS
Asbestos Survey Report
Nonfriable Asbestos-Containing Materials
(Abatement not required if not made friable during demolition.)

ROUTE:	US 60	**TESTED BY:**	Diane Roegge
MODOT JOB NO.:	N/A	**CERTIFICATION #:**	7119101817MOIR7165
DISTRICT:	SW	**SITE ADDRESS:**	Over Pineville Rd & KCS Railroad
COUNTY:	Newton	**TYPE(S) OF STRUCTURE(S):**	Bridge
DATE OF TESTS:	N/A		
PARCEL NO.:	Bridge A-0334R		

Sample ID	Type of Material	Location of Material	Friability Category	Field Measure	Asbestos Type	Percent
		None Located	I NF			

All necessary work to handle this material is the contractor's responsibility.

I NF = Category I Nonfriable

MISSOURI DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND MATERIALS
Asbestos Survey Report
All materials requiring removal or special handling.

ROUTE:	US 60	**TESTED BY:**	Diane Roegge
MODOT JOB NO.:	N/A	**CERTIFICATION #:**	7119101817MOIR7165
DISTRICT:	SW	**SITE ADDRESS:**	Over Pineville Rd & KCS Railroad
COUNTY:	Newton	**TYPE(S) OF STRUCTURE(S):**	Bridge
DATE OF TESTS:	N/A		
PARCEL NO.:	Bridge A-0334R		

Bid Item No.	Sample ID	Type of Material	Location of Material	Friability Category	Field Measure	Asbestos Type	Percent
			None Located	II NF			
			None Located	F			

I NF = Category I Nonfriable II NF = Category II Nonfriable F = Friable * = Tested By Point Count Procedure

MISSOURI DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND MATERIALS
Metals Survey Report of Painted Concrete, Block, Brick Surfaces for Clean Fill Purposes

ROUTE:	US 60	**TESTED BY:**	N/A
MODOT JOB NO.:	N/A	**DATE OF TESTS:**	N/A
DISTRICT:	SW	**PARCEL NO.:**	Bridge A-0334R
COUNTY:	Newton	**SITE ADDRESS:**	Over Pineville Rd & KCS Railroad
SURVEYED BY:	Diane Roegge	**TYPE(S) OF STRUCTURE(S):**	Bridge
DATE OF SURVEY:	November 14, 2017		

Sample ID	Color/Location of Material/Substrate	Metals (ppm)							
		As	Cr	Pb	Cd	Se	Ba	Hg	Ag
	No samples taken. No painted surfaces located.								

All results are by XRF unless otherwise indicated: a = USEPA SW-846 Method 3050
b = USEPA SW-846 Method 7471

MEMORANDUM

Missouri Department of Transportation
Construction and Materials
Central Laboratory

TO: TMS

CC:

FROM: Diane Roegge
Environmental Chemist, Lead License #110506-300003365

DATE: November 16, 2017

SUBJECT: Materials
Job No. N/A
US 60/Newton County
Bridge A-0334R

On November 14, 2017, a field check of the paint system and a paint screening for regulated heavy metals was performed on the subject bridge. The following results were obtained:

	17MD1R897
Arsenic (As)	LOD*
Chromium (Cr)	71,902 ppm** (7.2%)
Lead (Pb)	1,228 ppm (0.1%)
Cadmium (Cd)	LOD
Selenium (Se)	LOD
Barium (Ba)	892 ppm
Mercury (Hg)	LOD
Silver (Ag)	LOD

*LOD = below the detection limit of the instrument **ppm = parts per million

TMS paint data shows System C Green paint, applied in 1990. The field check and results verify the information found in TMS.

The existing paint system is NOT lead-based paint; however, System C Green paint has historically been shown to contain high levels of chromium (Cr), a regulated heavy metal. It is advised that any worker be strongly urged to use proper PPE when dealing with this material.

Should further screenings be required, please contact Todd Bennett, Chemical Laboratory Director, at (573) 751-1045. Should you have any questions, feel free to call me at (573) 526-4359.

fr/dr
http://sharepoint/systemdelivery/cm/chemicallab/environmental/shared documents/asbestos/districts/southwest (sw)/mt/a0334r/lbp a0334r.docx

CERTIFICATION NUMBER:

7119101817MOIR7165

THIS CERTIFIES

Diane R Roegge

HAS COMPLETED THE CERTIFICATION

REQUIREMENTS FOR

Inspector



APPROVED: **10/23/2017**

EXPIRES: **10/23/2018**

TRAINING DATE: **10/18/2017**

Kyra L Moore

Director of Air Pollution Control Program

A4961 - Newton - 2/1/22

US 60 over Culpepper Branch



D.S. profile - looking south.




1.5' - 2' gravel in 2 west barrels.


Moderate leaching
at top slab joints.


Minor top slab
saturation U.S. Span 2.

A4961 - Newton - 2/1/22

US 60 over Culpepper Branch

North roadway edge erosion - looking west.



North roadway edge erosion - looking east.



Bridge Number: A4961

Route/County: US 60/Newton

Asbestos-Containing Material Present?

Yes: ☐ No: ☒

If yes, see report for location(s).

Structural Steel Present?

Yes: ☐ No: ☒

If No, then skip the following.

Lead-Based Paint (LBP) Present?

Yes: ☐ No: ☐

Trusses LBP?

Yes: ☐ No: ☐

Girder LBP?

Yes: ☐ No: ☐

Railing LBP?

Yes: ☐ No: ☐

Pile LBP?

Yes: ☐ No: ☐

MEMORANDUM

Missouri Department of Transportation
Construction and Materials
Central Laboratory

TO: TMS

FROM: Frank Reichart
Environmental Chemist

DATE: March 4, 2020

SUBJECT: Materials
Asbestos Inspection & Heavy Metal Paint Survey
Route 60
Bridge# A4961
Newton County

We are providing you with the results of the inspection on the above referenced bridge. The inspection report contains an asbestos and a heavy metals survey. The asbestos inspection included identifying suspect asbestos-containing material and NVLAP accredited testing to confirm the presence of asbestos.

Form T746 – This will show if samples were taken, where from, and, if the sample was found to contain asbestos, our estimated quantity of material present. Under the column "Friability Category", this is the meaning for the following:

N-ACM – No asbestos detected.
I NF – Asbestos is present. Material shall be handled carefully by a licensed abatement worker and kept wet if removing as part of a maintenance activity.
II NF – Asbestos is present. If removal is required for the maintenance activity, use an abatement contractor.

In accordance with Missouri Department of Natural Resources' Technical Bulletin "Managing Construction and Demolition Waste" dated January 31, 2003, a heavy metal paint survey has been performed on the above referenced bridge. This survey includes locating concrete which has been painted with something other than traffic paint or graffiti, and testing the painted surface(s) to determine if hazardous heavy metals are present. If the bridge is being removed completely, or the maintenance repairs include removing the painted concrete, then, non-hazardous painted concrete may be used as clean fill materials, if properly handled. You must contact the Central Office Design Division for proper handling of the reported painted surfaces.

Although our survey included observing and sampling all accessible areas, it is possible that potentially hidden asbestos-containing materials may exist within the structure. Should you have any questions regarding these reports, please contact me at (573) 526-4359.

db/fr
http://sp/sites/cm/chemicallab/environmental/shared documents/asbestos/districts/southwest (sw)/mt/a4961/fr20030412.docx
Attachments

MISSOURI DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND MATERIALS
Asbestos Survey Report
All Suspect ACM

ROUTE:	US 60	**SURVEYED BY:**	Frank Reichart and Diane Roegge
MODOT JOB NO.:	N/A	**CERTIFICATION #:**	7020101719MOIR11239, F.R. 7020101719MOIR7165, D.R.
DISTRICT:	SW	**SITE ADDRESS:**	Over Culpepper Branch
COUNTY:	Newton	**TYPE(S) OF STRUCTURE(S):**	Bridge (Triple Box Culvert)
DATE OF SURVEY:	March 4, 2020		
PARCEL NO.:	Bridge A-4961		

Sample ID	Type of Materials	Location of Material	Friability Category	Field Measure
20MFJR 025	Asphalt Joint Material	Construction Joints	N-ACM	
	Bridge Paint is not a suspect ACM per MSDS's on file.			

N-ACM = Non-Asbestos Containing Material I NF = Category I Nonfriable II NF = Category II Nonfriable F = Friable
NAFD = No Asbestos Fiber Detected * = Tested By Point Count Procedure

MISSOURI DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND MATERIALS
Asbestos Survey Report
Nonfriable Asbestos-Containing Materials
(Abatement not required if not made friable during demolition.)

ROUTE: US 60
MODOT JOB NO.: N/A
DISTRICT: SW
COUNTY: Newton
DATE OF TESTS: March 10, 2020
PARCEL NO.: Bridge A-4961

TESTED BY: Frank Reichart and Diane Roegge
CERTIFICATION #: 7020101719MOIR11239, F.R. 7020101719MOIR7165, D.R.
SITE ADDRESS: Over Culpepper Branch
TYPE(S) OF STRUCTURE(S): Bridge (Triple Box Culvert)

Sample ID	Type of Material	Location of Material	Friability Category	Field Measure	Asbestos Type	Percent
		None Located	I NF			

All necessary work to handle this material is the contractor's responsibility.

I NF = Category I Nonfriable

MISSOURI DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND MATERIALS
Asbestos Survey Report
All materials requiring removal or special handling.

ROUTE:	US 60	**TESTED BY:**	Frank Reichart and Diane Roegge
MODOT JOB NO.:	N/A	**CERTIFICATION #:**	7020101719MOIR11239, F.R. 7020101719MOIR7165, D.R.
DISTRICT:	SW	**SITE ADDRESS:**	Over Culpepper Branch
COUNTY:	Newton	**TYPE(S) OF STRUCTURE(S):**	Bridge (Triple Box Culvert)
DATE OF TESTS:	March 10, 2020		
PARCEL NO.:	Bridge A-4961		

Bid Item No.	Sample ID	Type of Material	Location of Material	Friability Category	Field Measure	Asbestos Type	Percent
			None Located	F			
			None Located	II NF			

I NF = Category I Nonfriable II NF = Category II Nonfriable F = Friable * = Tested By Point Count Procedure

MISSOURI DEPARTMENT OF TRANSPORTATION
CONSTRUCTION AND MATERIALS
Metals Survey Report of Painted Concrete, Block, Brick Surfaces for Clean Fill Purposes

ROUTE:	US 60	**TESTED BY:**	N/A
MODOT JOB NO.:	N/A	**DATE OF TESTS:**	N/A
DISTRICT:	SW	**PARCEL NO.:**	Bridge A-4961
COUNTY:	Newton	**SITE ADDRESS:**	Over Culpepper Branch
SURVEYED BY:	Frank Reichart	**TYPE(S) OF STRUCTURE(S):**	Bridge (Triple Box Culvert)
DATE OF SURVEY:	March 4, 2020		

Sample ID	Color/Location of Material/Substrate	Metals (ppm)							
		As	Cr	Pb	Cd	Se	Ba	Hg	Ag
	No samples taken. No painted surfaces located.								

All results are by XRF unless otherwise indicated: a = USEPA SW-846 Method 3050
b = USEPA SW-846 Method 7471

CERTIFICATION NUMBER:

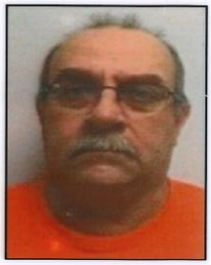
7020101719MOIR11239

THIS CERTIFIES

Francis J Reichart

HAS COMPLETED THE CERTIFICATION REQUIREMENTS FOR

Inspector



APPROVED: **10/18/2019**

EXPIRES: **10/18/2020**

TRAINING DATE: **10/17/2019**

Director of Air Pollution Control Program

CERTIFICATION NUMBER:

7020101719MOIR7165

THIS CERTIFIES

Diane R Roegge

HAS COMPLETED THE CERTIFICATION REQUIREMENTS FOR

Inspector



APPROVED: **10/18/2019**

EXPIRES: **10/18/2020**

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Director of Air Pollution Control Program