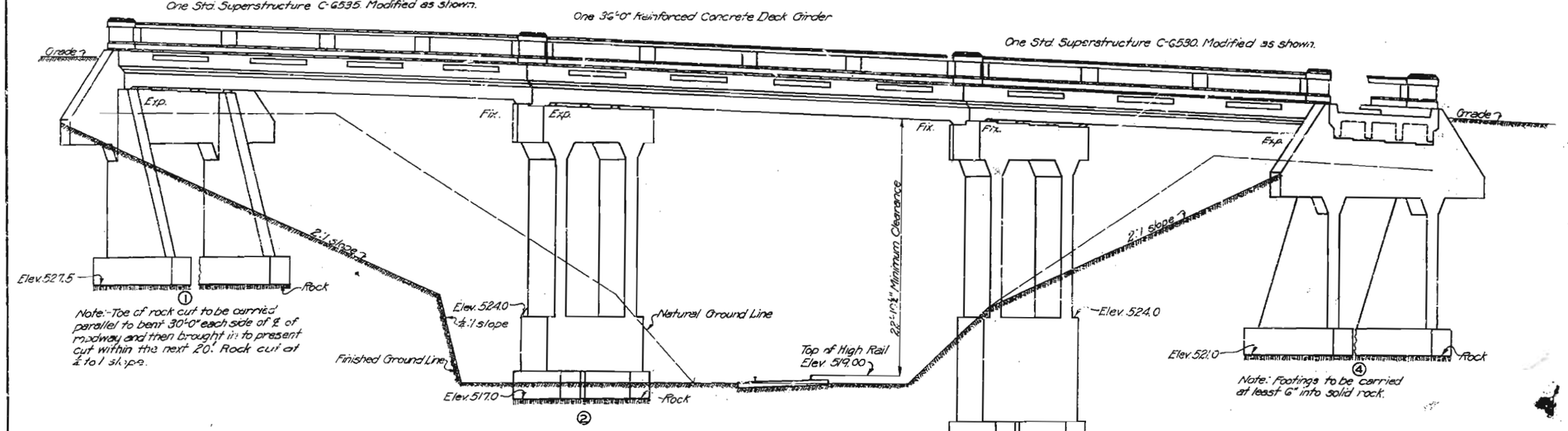
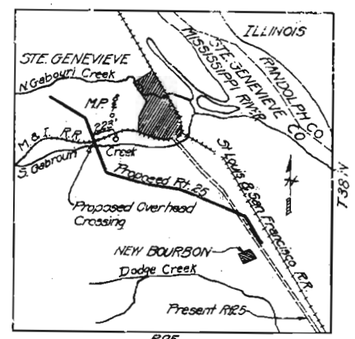
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	R25-S9	1930		



GENERAL ELEVATION



LOCATION SKETCH

Scale 1"=1 mile

GENERAL NOTES:

Concrete in handrail to be 1:2:3 mix. Class "A".

Concrete in slab, curbs and girders to be 1:2:3½ mix. Class "X". All other concrete to be 1:2:4 mix. Class "B".

Exposed edges shall be beveled ¾" where no other bevel is noted.

Where bituminous felt is used in expansion or partition joints in concrete, stitch felt in vertical joint securely to one face of concrete with copper wire.

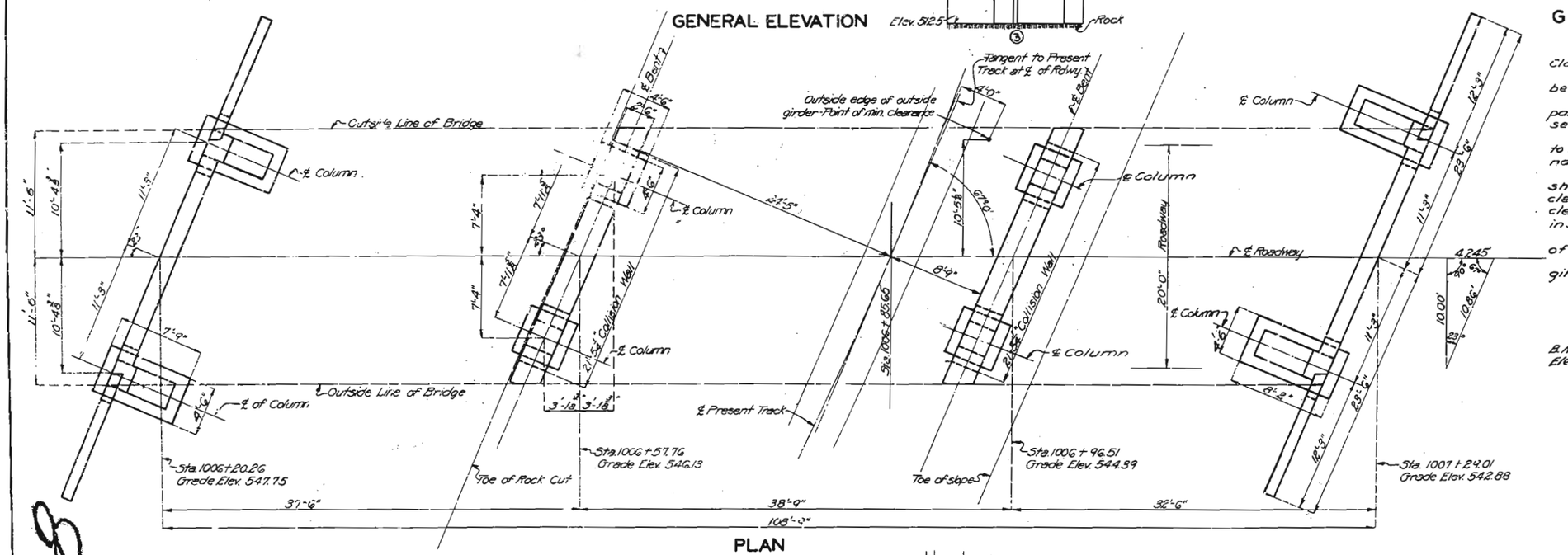
Two name plates type "A" as shown on Std. S.818 to be furnished and placed by Contractor. Cost of name plates to be included in price bid for other items.

False work for span over existing railroad tracks shall be constructed with a minimum vertical clearance of 20'-0" and a minimum lateral clearance of 8'-0" on outside of curve and 10'-0" on inside of curve.

Bridge excavation in accordance with Section I of Standard Specifications issued April 1, 1930.

No permanent camber desired in finished girders.

B.M. No. 55 - 3 nails in Power Pole 50' lt. Sta. 1006+70 Elev. 545.92.



PLAN

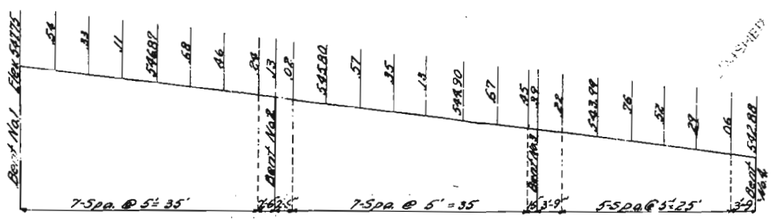
368

Note:- All bridge excavation will be paid for as Class I Bridge Excavation.

ESTIMATED QUANTITIES

Item		Substr.	Superstr.	Total
Excavation Class I	Cu. Yds.	375		375
Concrete 1:2:3 mix. "A"	Cu. Yds.		11.0	11.0
Concrete 1:2:3½ mix. "X"	Cu. Yds.		121.9	121.9
Concrete 1:2:4 mix. "B"	Cu. Yds.	118.9		118.9
Reinforcing Steel	Lbs.	9010	31550	40560
Phosphor Bronze Bearing Plates	Lbs.		540	540
Cast Steel Bearing Plates	Lbs.		2430	2430

Note: Excavation required for widening rail road cut at bridge site to be paid for as roadway excavation. For details see Road Plans.



SKETCH SHOWING GRADE ELEVATIONS ALONG ℄ OF ROADWAY

Sheet No. 1 of 4.

Drawn May 1930 By J.C.S.
Traced May 1930 By H.W.H.& H.E.U.
Checked May 1930 By A.F.K. & P.H.S.

BRIDGE OVER M. & I. R.R.

STATE ROAD FROM BLOOMSDALE TO ST MARYS

ABOUT 1.5 MILES S.W. OF STE GENEVIEVE

PROJECT NO. R25-S9 STA. 1006+20.26

STE. GENEVIEVE COUNTY

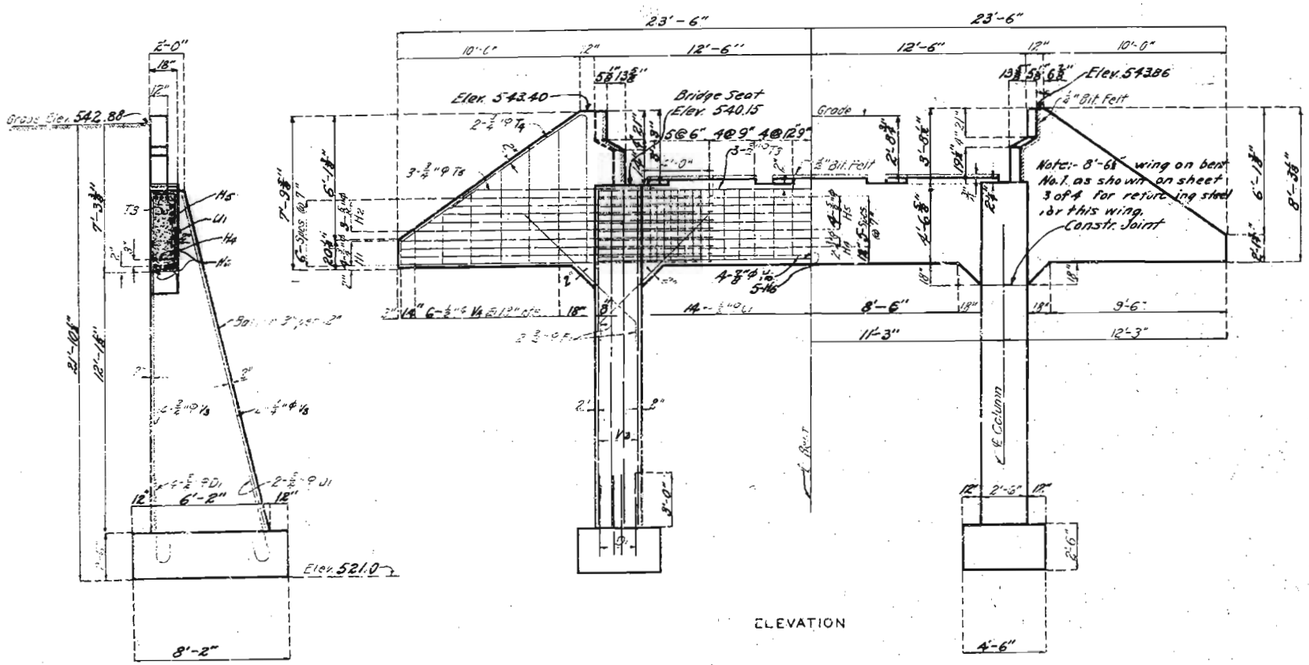
SUBMITTED BY [signature] DATE 5/21/30 BRIDGE ENGINEER

APPROVED BY [signature] DATE CHIEF ENGINEER

STD. C-6501
STD. C-6530R
STD. C-6535R
STD. S-818
J-134

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

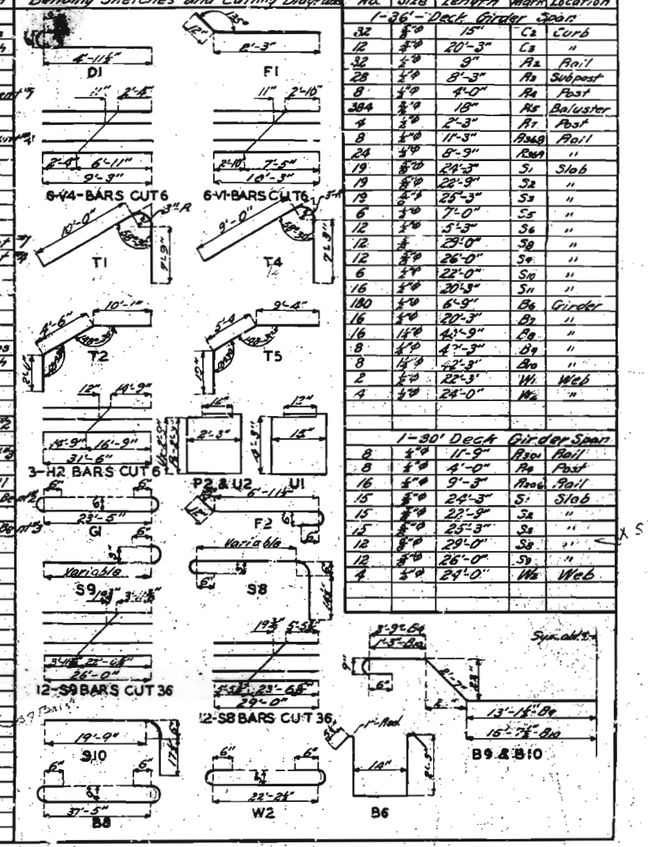
MISSOURI STATE HIGHWAY DEPARTMENT



BILL OF REINFORCING STEEL

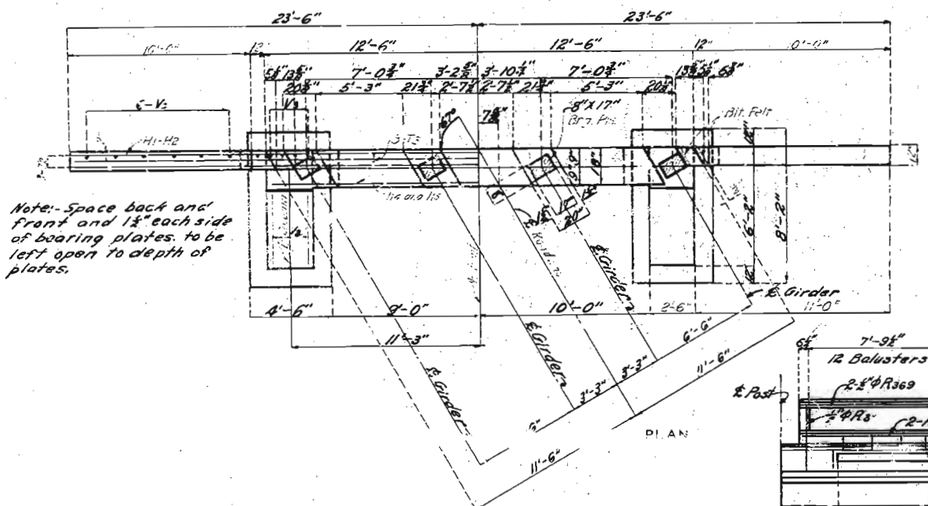
No.	Size	Length	Mark	Location
		End Bents No. 1 & 4		
24	⅝	6'-3"	D1	Footings
16	¾	9'-2"	F1	Haunch
16	¾	17'-2"	H1	Wing
6	¾	3'-6"	H4	"
8	1"	24'-9"	H5	Beam-Bent
4	¾	24'-9"	H4	Beam
8	¾	24'-9"	H6	"
9	¾	24'-9"	H6	Beam-Bent
4	¾	18'-3"	T1	Wing
6	¾	16'-6"	T2	"
6	¾	24'-9"	T3	Beam
4	¾	16'-9"	T4	Wing
6	¾	16'-3"	T5	"
6	¾	10'-3"	V1	"
12	¾	14'-6"	V2	Col.-Bent
12	¾	16'-3"	V3	Col.-Bent
6	¾	9'-3"	W4	Wing
54	¾	12'-0"	U1	Beam
		Int. Bents No. 2 & 3		
16	¾	6'-3"	D1	Footings
16	¾	9'-3"	F1	Haunch
16	¾	9'-3"	F2	"
36	¾	26'-0"	G1	Beam
4	¾	24'-0"	G2	"
8	¾	23'-3"	P1	Col.-Bent #2
38	¾	10'-0"	P2	Column
8	¾	26'-0"	P3	Col.-Bent #3
60	¾	11'-0"	U2	Beam
10	¾	21'-0"	K1	Coll. Wall
22	¾	4'-3"	H2	" " Bent 2
18	¾	21'-0"	H3	" " "
22	¾	5'-9"	H4	" " Bent 3
		1-35' Deck Girder Span		
16	½	10'-6"	R351	Rail
16	⅝	4'-0"	R4	Post
16	⅝	8'-3"	R350	Rail
4	⅝	2'-3"	R7	Post
18	⅝	24'-3"	S1	Slab
18	¾	22'-9"	S2	"
18	¾	25'-3"	S3	"
12	¾	29'-0"	S6	"
12	¾	26'-0"	S9	"
2	½	28'-3"	W1	Web
4	½	29'-0"	W2	"

Bending Sketches and Cutting Diagrams



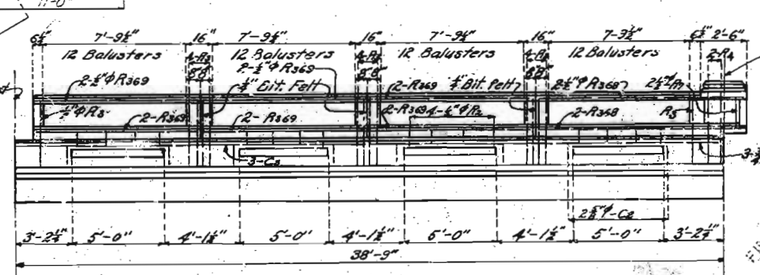
No.	Size	Length	Mark	Location
		1-26'-Deck Girder Span		
32	½	15"	C2	Curb
12	½	20'-3"	C3	"
32	½	9"	R2	Rail
28	½	8'-3"	R3	Subpost
8	½	4'-0"	R4	Post
384	½	18"	R5	Baluster
4	½	2'-3"	R7	Post
8	½	11'-3"	R368	Rail
24	½	8'-9"	R369	"
19	⅝	23'-3"	S1	Slab
19	⅝	22'-9"	S2	"
19	¾	25'-3"	S3	"
6	½	7'-0"	S5	"
12	½	5'-3"	S6	"
12	½	29'-0"	S8	"
12	⅝	26'-0"	S9	"
6	½	22'-0"	S10	"
16	½	20'-3"	S11	"
180	½	6'-9"	B6	Girder
16	½	20'-3"	B7	"
16	1"	44'-9"	B8	"
8	½	4'-3"	B9	"
8	1"	42'-3"	B10	"
2	½	22'-3"	W1	Web
4	½	24'-0"	W2	"
		1-30' Deck Girder Span		
8	½	11'-9"	R350	Rail
8	½	4'-0"	R4	Post
16	⅝	9'-3"	R368	Rail
15	⅝	24'-3"	S1	Slab
15	¾	22'-9"	S2	"
15	¾	25'-3"	S3	"
12	⅝	29'-0"	S8	"
12	⅝	26'-0"	S9	"
4	½	29'-0"	W1	Web

Note:- Bars in above units to be billed and tagged separately.
Dimensions of bars are given along ℄ and are for computed lengths.
For bars C1 & C2; R2, R3, & R5; S4 to S7; and B1 to B5 inclusive see Stds. C6530A and C6535R.
For bending sketches of bars B1, B3, B4, B5, S1, S8; S9, & S6 see Std. C6530A and C6535A.



DETAILS OF END BENT NO. 4

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



ELEVATION OF HANDRAIL AND CURB FOR 36' GIRDER SPAN

BRIDGE OVER M. & I. R.R.

STATE ROAD FROM BLOOMSDALE TO ST MARYS

ABOUT 1.5 MILES S.W. OF STE GENEVIEVE

PROJECT NO R25—S9 STA. 100+

STE. GENEVIEVE COUNTY

SUBMITTED BY M Wilcox DATE 2/9/30. BRIDGE ENGINEER

APPROVED BY T H Sutton DATE CHIEF ENGINEER

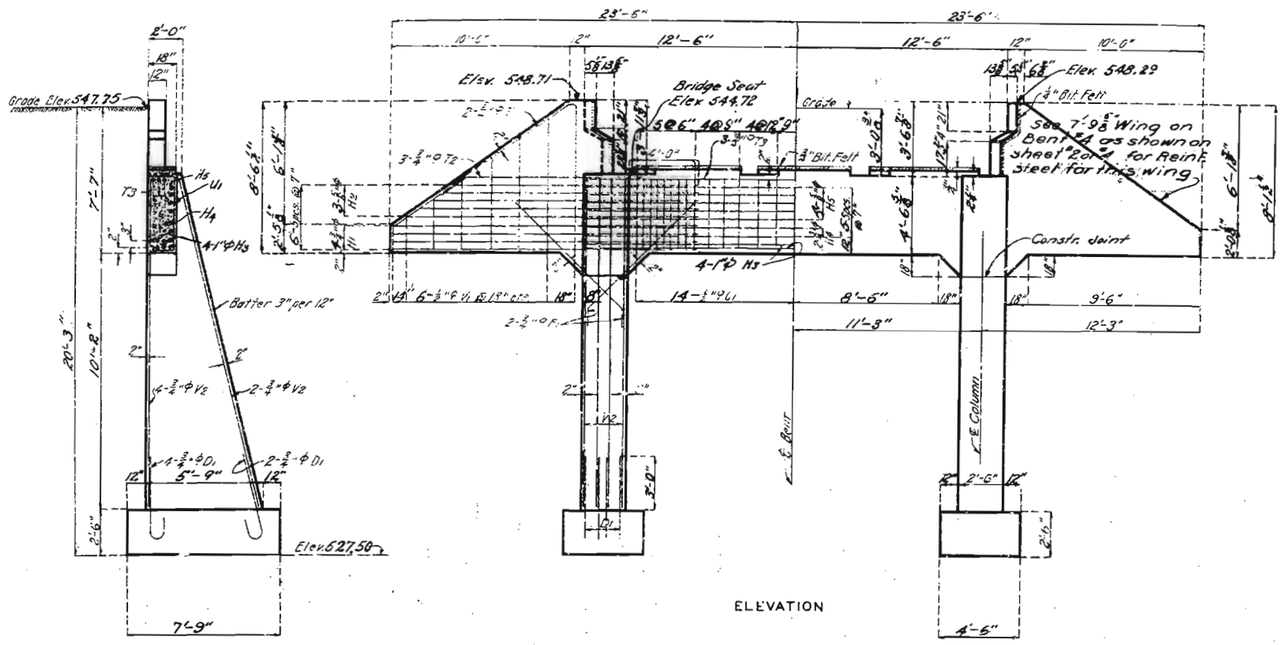
STD.C6530L
STD.C6530P
STD.C6535R
STD.S 818
J-134

Assembled July 1930 By J.E.B.
Checked Aug. 1930 By P.H.S.
Revised July 1932 By J.E.B.
Revised Feb. 1935 By E.B.

Sheet No. 2 of 4

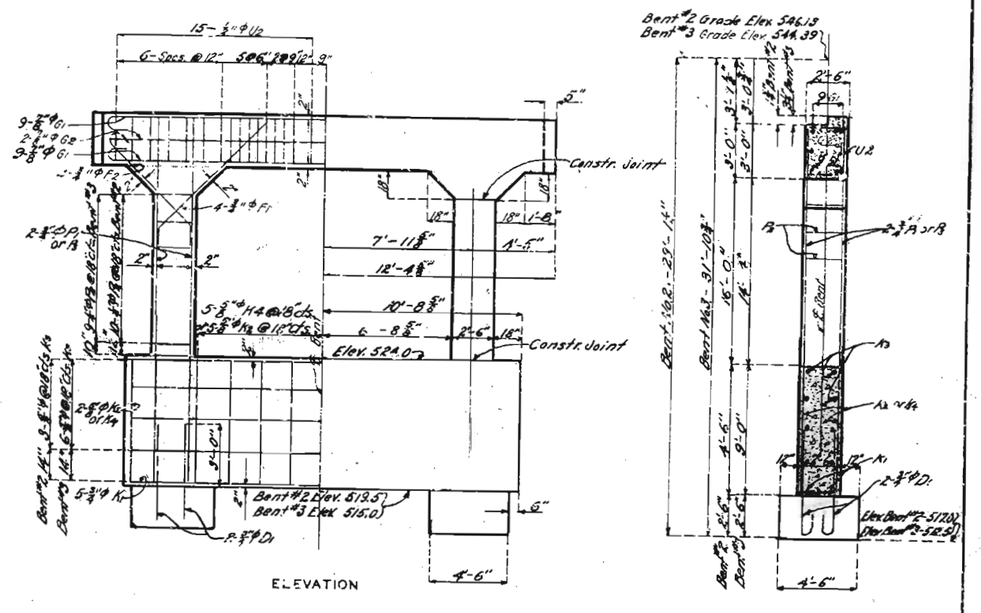
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.	R25-S9	1930		



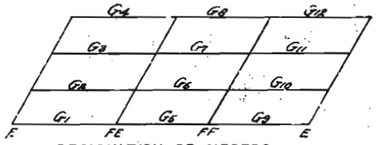
SECTION AT ℄

ELEVATION

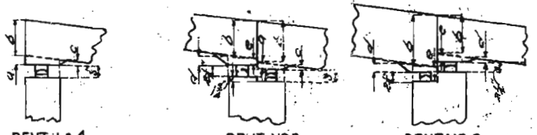


ELEVATION

SECTION AT ℄

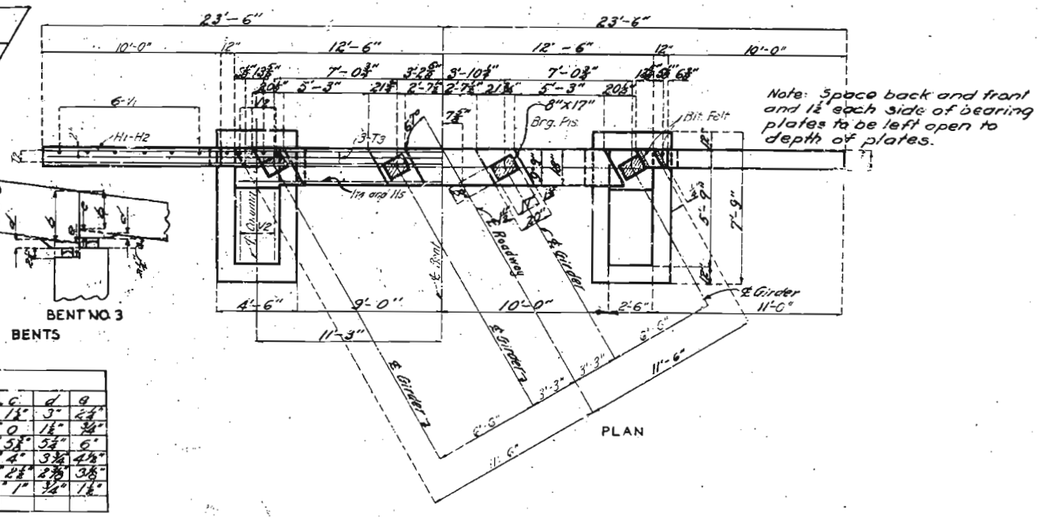


DESIGNATION OF GIRDERS



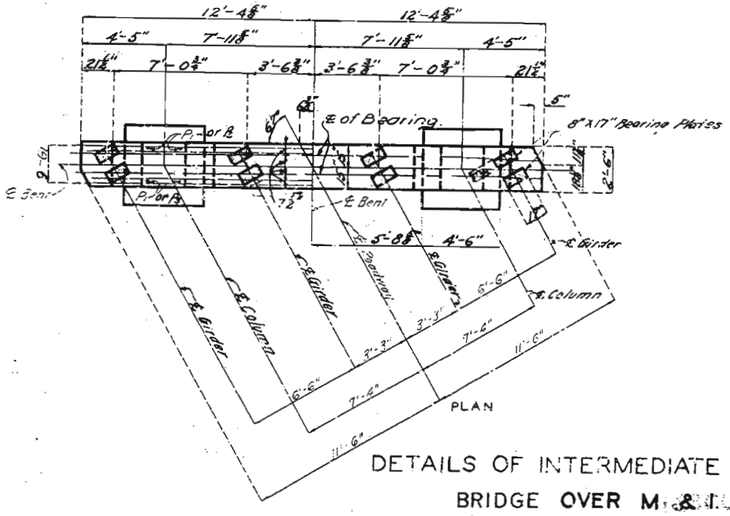
DETAIL OF HAUNCHES OVER BENTS

DIMENSIONS OF HAUNCHES											
Girder	a	b	c	d	e	Girder	a	b	c	d	e
G1	5"	2'-6½"	4½"	5⅜"	5⅜"	G7	2¼"	2'-7½"	1½"	3"	2¼"
G2	3⅜"	2'-6½"	2¾"	4½"	3¾"	G8	¾"	2'-7½"	0	1½"	¾"
G3	2¼"	2'-6½"	1⅜"	3"	2¼"	G9	4⅜"	2'-3½"	5½"	5¼"	6"
G4	⅞"	2'-6½"	0"	1½"	¾"	G10	3⅜"	2'-3½"	4"	3¾"	4½"
G5	5⅜"	2'-7½"	4⅜"	6"	5¼"	G11	1½"	2'-3½"	2½"	2⅜"	3⅜"
G6	3¾"	2'-7½"	3"	4½"	3¾"	G12	0"	2'-3½"	1"	¾"	1½"



PLAN

DETAILS OF END BENT NO. 1



PLAN

DETAILS OF INTERMEDIATE BENTS NO. 2 & 3

BRIDGE OVER M. & I. R.R.

STATE ROAD FROM BLOOMSDALE TO ST. MARYS

ABOUT 1.5 MILES S.W. OF STE. GENEVIEVE

PROJECT NO. R25-S9 STA. 1006+20.26

STE. GENEVIEVE COUNTY

SUBMITTED BY [signature] DATE 9/9/30. BRIDGE ENGINEER

APPROVED BY [signature] DATE CHIEF ENGINEER

FINISHED

STD.C-6501
STD.C-6530R
STD.C-6535 R
STD.S 818
J-134

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

Sheet No. 3 of 4

Assembled July 1930 By J.E.B.
Checked Aug. 1930 By P.H.S.
Drawn July 1928 By H.E.C.
Checked Feb. 1929 By L.B.

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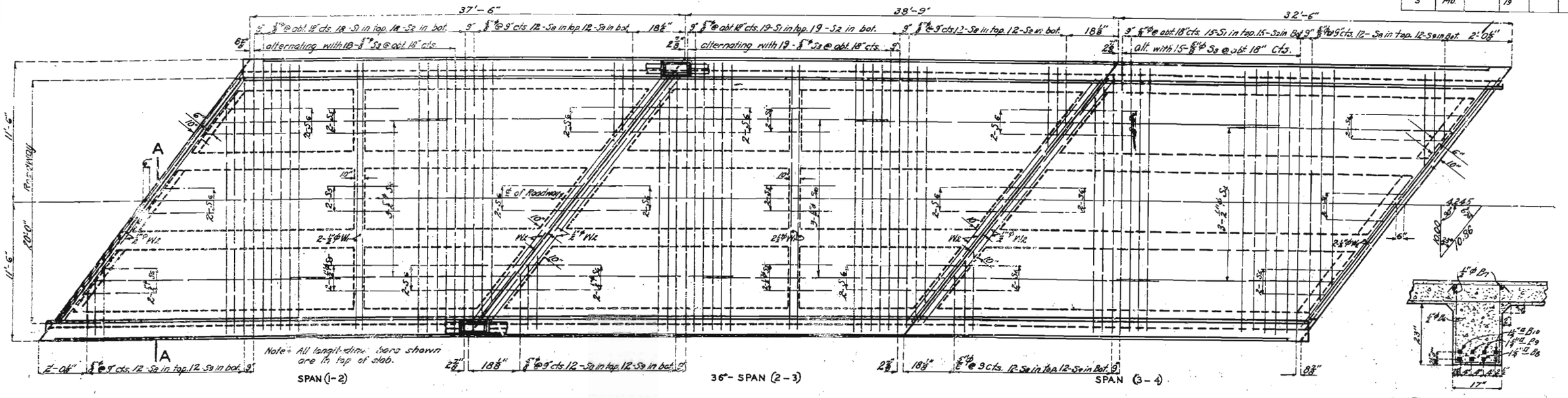
MISSOURI STATE HIGHWAY DEPARTMENT

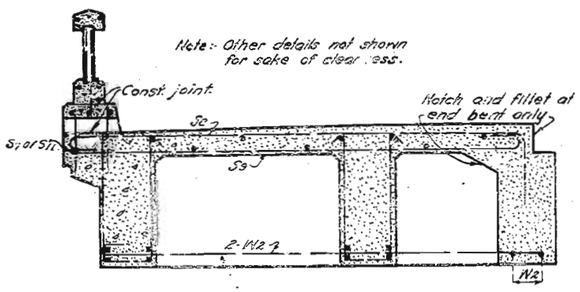
Fed. Road Dist. No.	State	Fed. Aid Proj. No.	Fiscal Year	Sheet No.	Total Sheets
5	MO.		19		



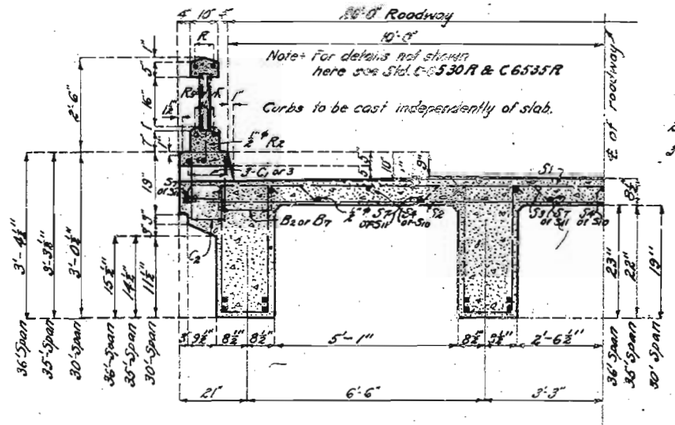
Note:- For handrail details for span 1-2 see 35"A" for span 3-4 see 30"C" both on Std. C6501. For handrail on span 2-3 see detail as shown on sheet No. 2 of 4.

PLAN OF SLAB SHOWING REINFORCEMENT

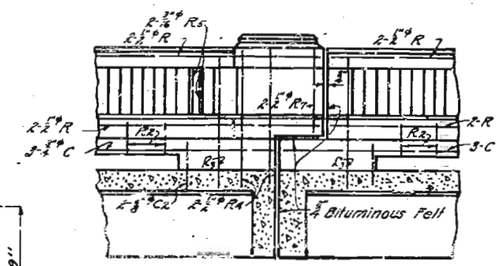
DETAILS OF GIRDER FOR 36' SPAN



SECTION A-A



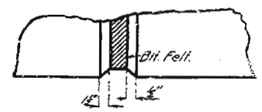
HALF CROSS SECTION



DETAIL OF HANDRAIL EXPANSION JOINTS

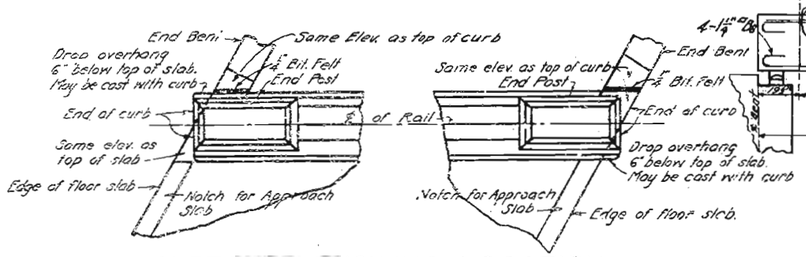


DETAIL OF BEVEL FOR CONST. JOINT AT CURB

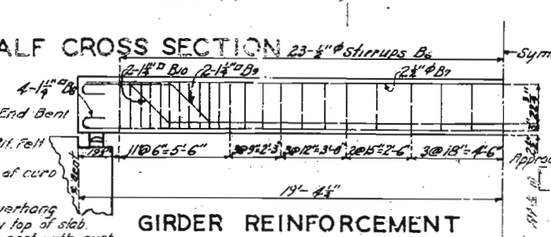


Note:- Use bevel as shown for exposed faces of all joints consisting of bituminous felt except at top surface of roadway slab. Use edging tool at top surfaces of roadway each side of felt joint.

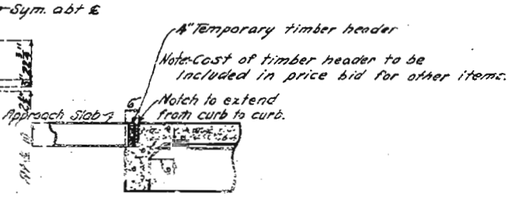
DETAIL OF BEVEL FOR BIT. FELT JOINTS



SKETCHES SHOWING LOCATION OF END POSTS OF HANDRAIL



GIRDER REINFORCEMENT FOR 36' SPAN (2-3)



DETAIL OF NOTCH FOR APPROACH SLABS

SECTION PARALLEL TO ℄ OF ROADWAY

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BRIDGE OVER M. & I. R. R.

STATE ROAD FROM BLOOMSDALE TO ST. MARYS

ABOUT 1.5 MILES S.W. OF STE. GENEVIEVE

PROJECT NO. R25-S9 STA. 1006+20.26

STE. GENEVIEVE COUNTY

SUBMITTED BY [signature] DATE 8/9/30 BRIDGE ENGINEER

APPROVED BY [signature] DATE 8/9/30 CHIEF ENGINEER

FINISHED

STD. C-6501
STD. C-6530R
STD. C-6535R
STD. S-[illegible]
J-134

Assembled July 1930 by J.E.B.
Checked Aug. 1930 by P.H.S.
Drawn Feb. 1929 by H.S.J. & R.I.S.M.
Checked Feb. 1929 by E.B.

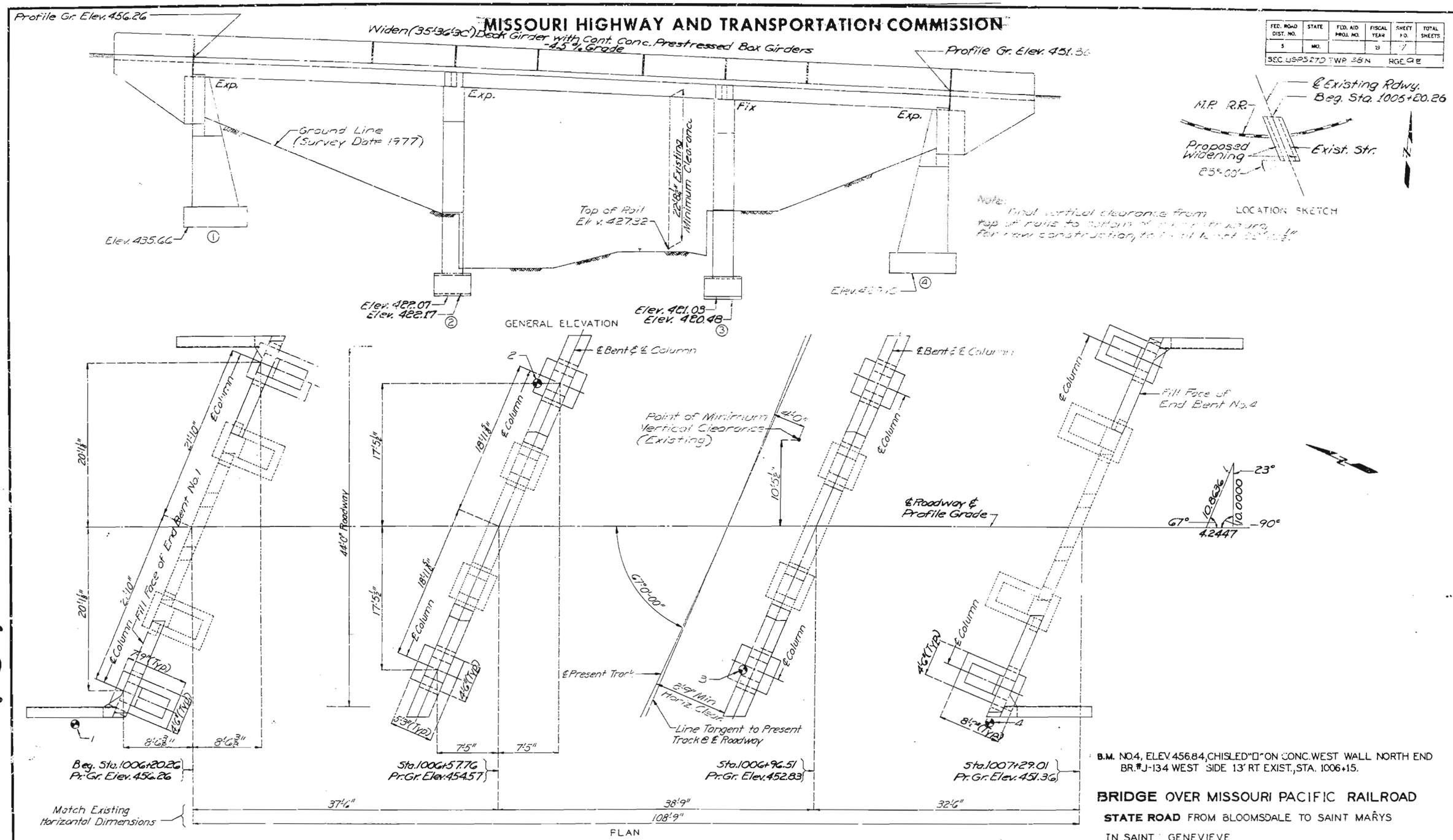
Note:- This drawing is not to scale. Follow dimensions.

Sheet No. 4 of 4

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

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

SEC. USPS 270 TWP. 38 N RGE. 9 E



B.M. NO. 4, ELEV. 456.84, CHISLED "□" ON CONC. WEST WALL NORTH END BR. #J-134 WEST SIDE 13' RT. EXIST., STA. 1006+15.

BRIDGE OVER MISSOURI PACIFIC RAILROAD

STATE ROAD FROM BLOOMSDALE TO SAINT MARYS

IN SAINT GENEVIEVE

PROJECT NO. [illegible] **STA.** 1006 + 20.26

JOB NO. 6-P-61-317 **RTE** 61

STE. GENEVIEVE COUNTY

DATE 9/17/78

STD.

STD. 706.30

J-134R

Note: "⊖" Indicates location of boring.
For Boring Data, see sheet No. 2.
For General Notes and Estimated Quantities see sheet No. 2.

DESIGNED JAN. 1978
DETAILED JUNE 1978
CHECKED JULY 1978

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

Sheet No. 1 of 18.

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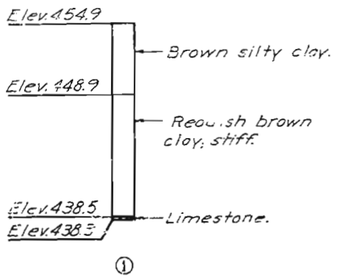
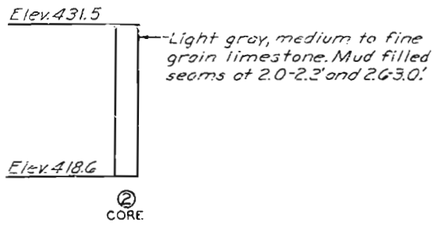
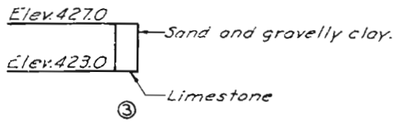
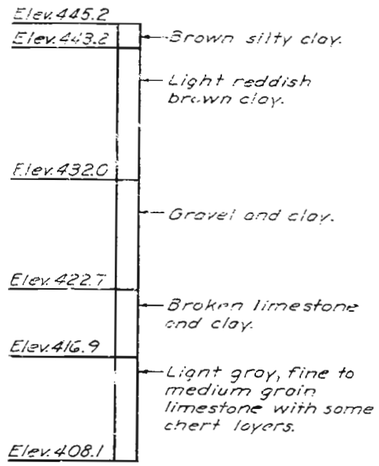
MISSOURI STATE HIGHWAY DEPARTMENT

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









BORING DATA

Note:
For location of borings see sheet No. 1.

GENERAL NOTES:
DESIGN SPECIFICATIONS:
A.A.S.H.T.O. - 1973

DESIGN LOADING:
H20-44
NO FUTURE WEARING SURFACE
EARTH 120 LBS.
EQUIVALENT FLUID PRESSURE 30 LBS.
SUPERSTRUCTURE SIMPLY SUPPORTED NON-COMPOSITE FOR DEAD LOAD.
SIMPLY SUPPORTED COMPOSITE FOR LIVE LOAD.

DESIGN UNIT STRESSES:
CLASS S CONCRETE (SUBSTRUCTURE) fc = 1,200 psi
CLASS B2 CONCRETE (SUPERSTRUCTURE EXCEPT PRESTRESSED GIRDERS) fc = 1,600 psi
REINFORCING STEEL (GRADE 40) fs = 20,000 psi

NOTE:
FOR PRE-STRESSED GIRDER STRESSES SEE SHEET NO. 12.
BEARINGS SHALL BE 60 DUROMETER NEOPRENE PADS.
ALL JOINT FILLER SHALL MEET THE REQUIREMENTS OF STD. SPEC. 1057.2.4.
TRAFFIC OVER STRUCTURE TO BE MAINTAINED DURING CONSTRUCTION. SEE SPECIAL PROVISIONS.

REINFORCING STEEL:
MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE 1-1/2" UNLESS OTHERWISE SHOWN.
ALL CONCRETE AND REINFORCEMENT IN SAFETY BARRIER CURBS IS INCLUDED WITH SUPERSTRUCTURE QUANTITIES.
OUTLINE OF OLD WORK IS INDICATED BY LIGHT DASHED LINES HEAVY LINES INDICATE NEW WORK.
A MINIMUM VERTICAL CLEARANCE OF 21'-4-1/2" ABOVE THE TOP OF RAIL AND A MINIMUM LATERAL CLEARANCE, AT BENT NO. 3, OF 7'-3" AND AT BENT NO. 2 A MINIMUM LATERAL CLEARANCE OF 12'-6" FROM THE CENTERLINE OF TRACK TO ANY TEMPORARY CONSTRUCTION FALSEWORK SHALL BE MAINTAINED DURING CONSTRUCTION.
SEE JOB SPECIAL PROVISION FOR ALTERNATE USE OF CONCRETE WEARING SURFACE ON EXISTING STRUCTURE.
BARS BONDED IN OLD CONCRETE NOT REMOVED SHALL BE CLEANLY STRIPPED AND EMBEDDED INTO NEW CONCRETE WHERE POSSIBLE. IF LENGTH IS AVAILABLE, OLD BARS SHALL EXTEND INTO NEW CONCRETE AT LEAST 40 DIAMETERS FOR SMOOTH BARS AND 30 DIAMETERS FOR DEFORMED BARS.
ANCHORS SHALL BE OF THE SELF DRILLING EXPANSION TYPE, MADE OF CASEHARDENED AND DRAWN CARBONIZED STEEL, WITH SELF-CUTTING ANNULAR BROACHING GROOVES.
COST OF FURNISHING AND INSTALLING HOOK ANCHOR BOLT ASSEMBLIES SHALL BE INCLUDED IN PRICE BID FOR CONCRETE.

FOOTING DATA				
BENT NO.	1	2	3	4
FOUNDATION MATERIAL	ROCK	ROCK	ROCK	ROCK
DESIGN BEARING TONS/SQ. FT.	1.5	5.3	5.3	1.5

ESTIMATED QUANTITIES

ITEM		SUBSTR.	SUPERSTR.	TOTAL
CLASS 1 EXCAVATION	(CU. YD.)	280		280
CONCRETE WEARING SURFACE (*)	(SQ. YD.)		275	275
CLASS B CONCRETE	(CU. YD.)	136.4		136.4
CLASS B2 CONCRETE	(CU. YD.)		90.1	90.1
PLAIN NEOPRENE BEARING PADS (3/4 INCH)	(EACH)		36	36
PRESTRESSED CONCRETE MEMBERS, BOX SECTION (35' SPAN)	(EACH)		6	6
PRESTRESSED CONCRETE MEMBERS, BOX SECTION (36' SPAN)	(EACH)		6	6
PRESTRESSED CONCRETE MEMBERS, BOX SECTION (30' SPAN)	(EACH)		6	6
REINFORCING STEEL	(POUND)	16640	10800	27440
STRIP SEAL EXPANSION DEVICE (2")	(LIN. FT.)		216	216
SPECIAL WORK	(LUMP SUM)			1
REINFORCING STEEL (EPOXY COATED)	(POUND)		5190	5190
REPAIRING CONCRETE DECK	(SQ. FT.)		124	124

*See Special Provisions for alternate use of concrete wearing surface. Alternate A is Latex Modified Concrete. Alternate B is Low Slump Concrete.

435

DETAILED JAN. 1978
CHECKED JUNE 1978

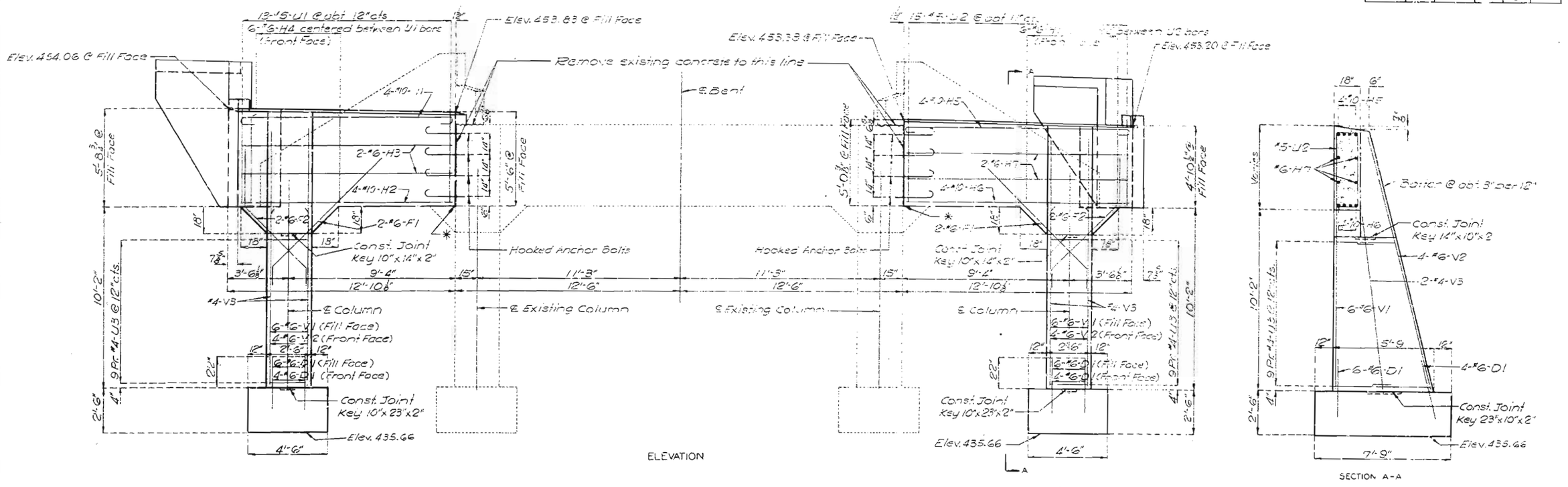
Note: This drawing is not to scale. Follow dimensions.

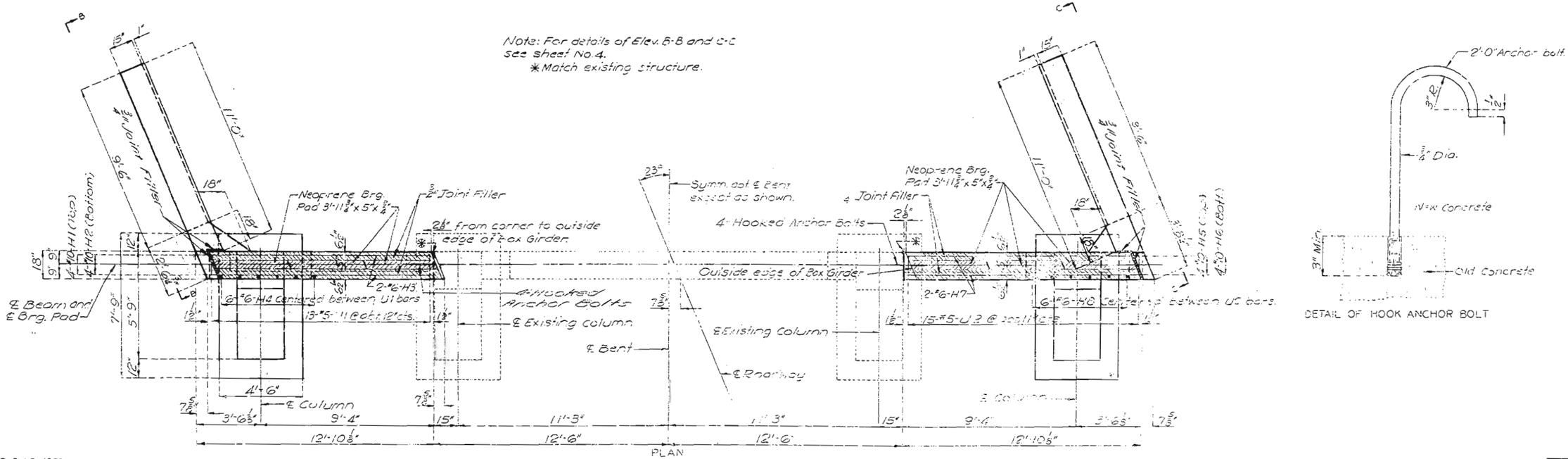
STE. GENEVIEVE COUNTY

J-134 R

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	9	





436

DETAILED JUNE 1978
CHECKED JULY 1978

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

DETAILS OF END BENT NO. 1

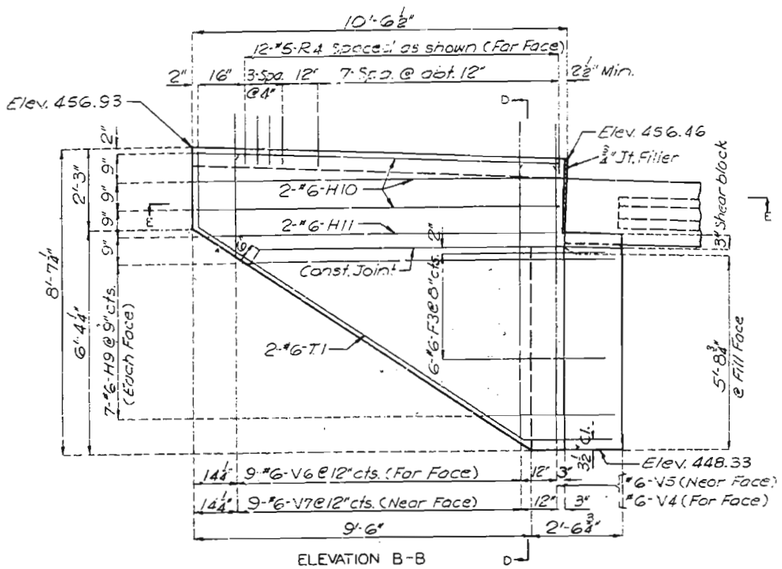
Sheet No. 3 of 19 Sheets

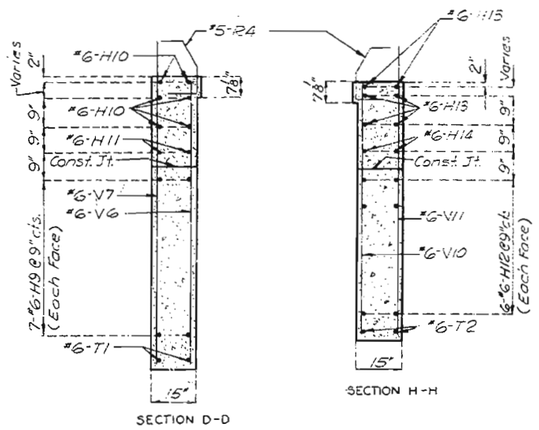
STE. GENEVIEVE COUNTY

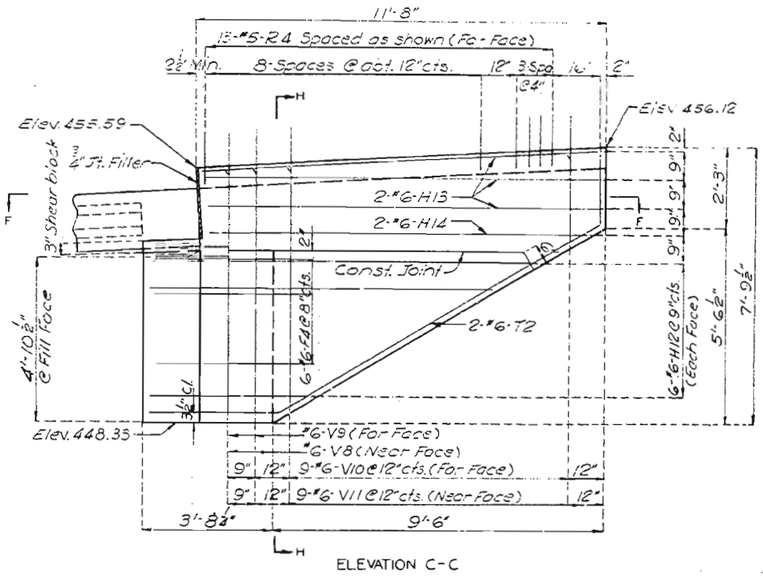
J-15-41R

MISSOURI STATE HIGHWAY DEPARTMENT

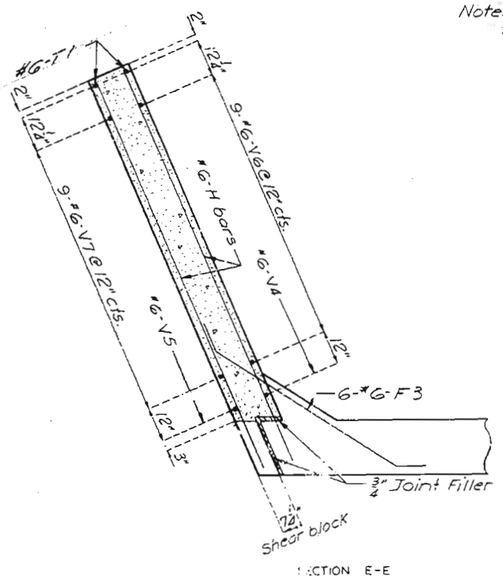
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	10	

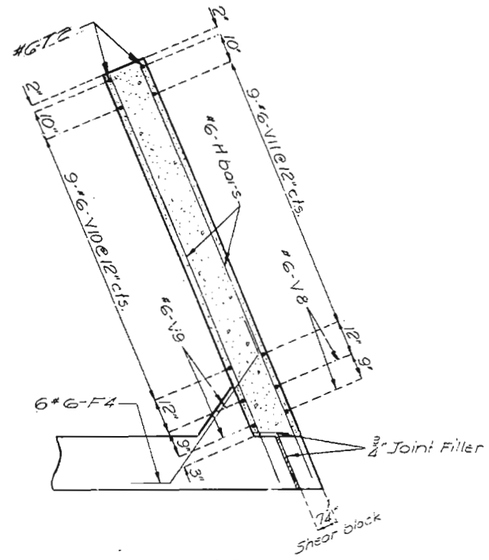






Note: For location of Elevations B-B & C-C see sheet No. 3.





437

DETAILED JUNE 19
CHECKED JULY

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

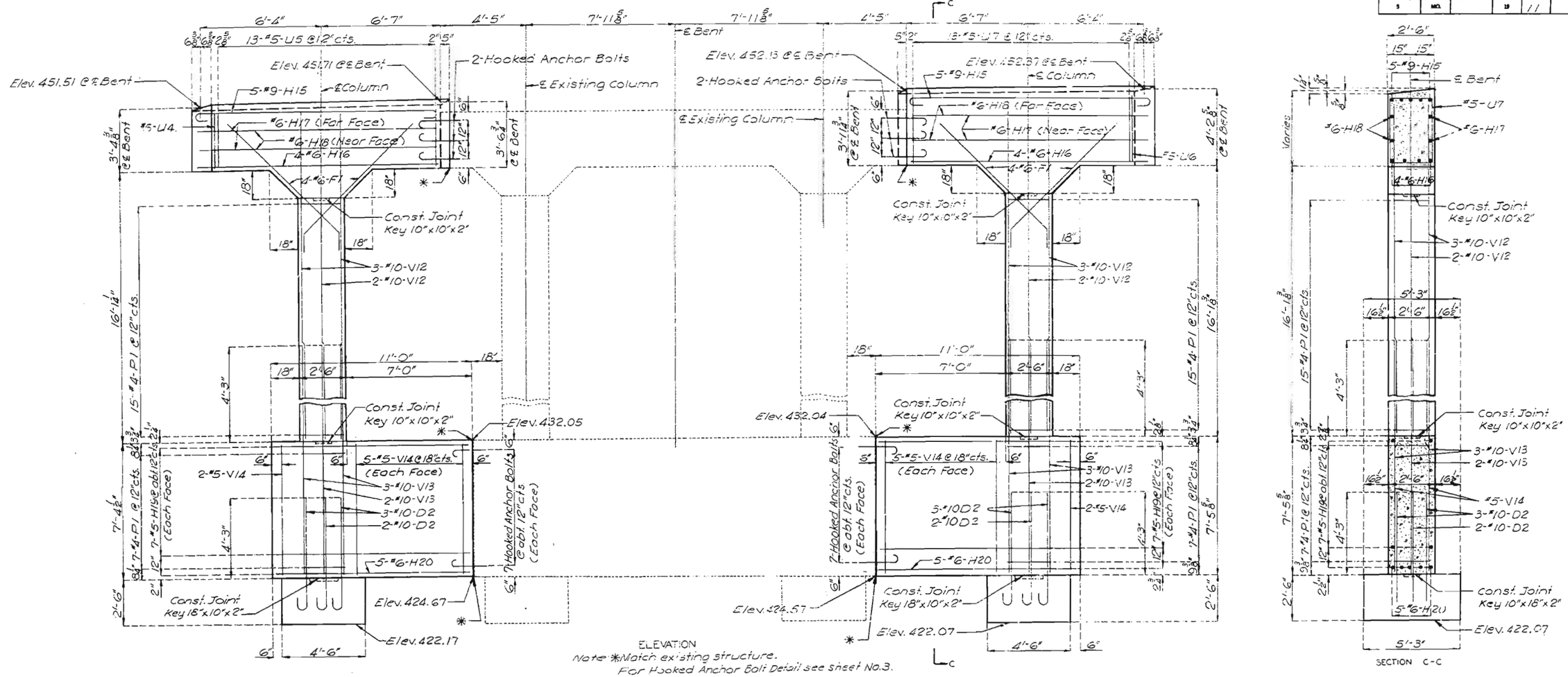
Sheet No. 4 of 18 .

STE. GENEVIEVE COUNTY

J-134R

MISSOURI STATE HIGHWAY DEPARTMENT

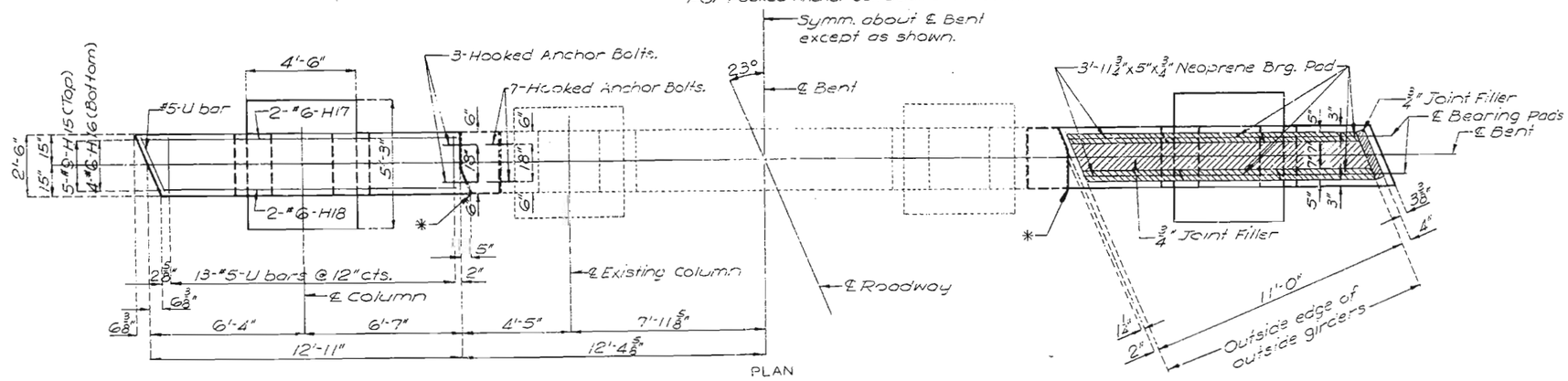
FED. P. SAC. DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	11	



ELEVATION

Note *Match existing structure.
For Hooked Anchor Bolt Detail see sheet No. 3.

SECTION C-C



PLAN

DETAILS OF INT. BENT NO. 2

DETAILED MAY 1978
CHECKED JULY 1978

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

Sheet No. 5 of 13 .

STE. GENEVIEVE **COUNTY**

J-134R

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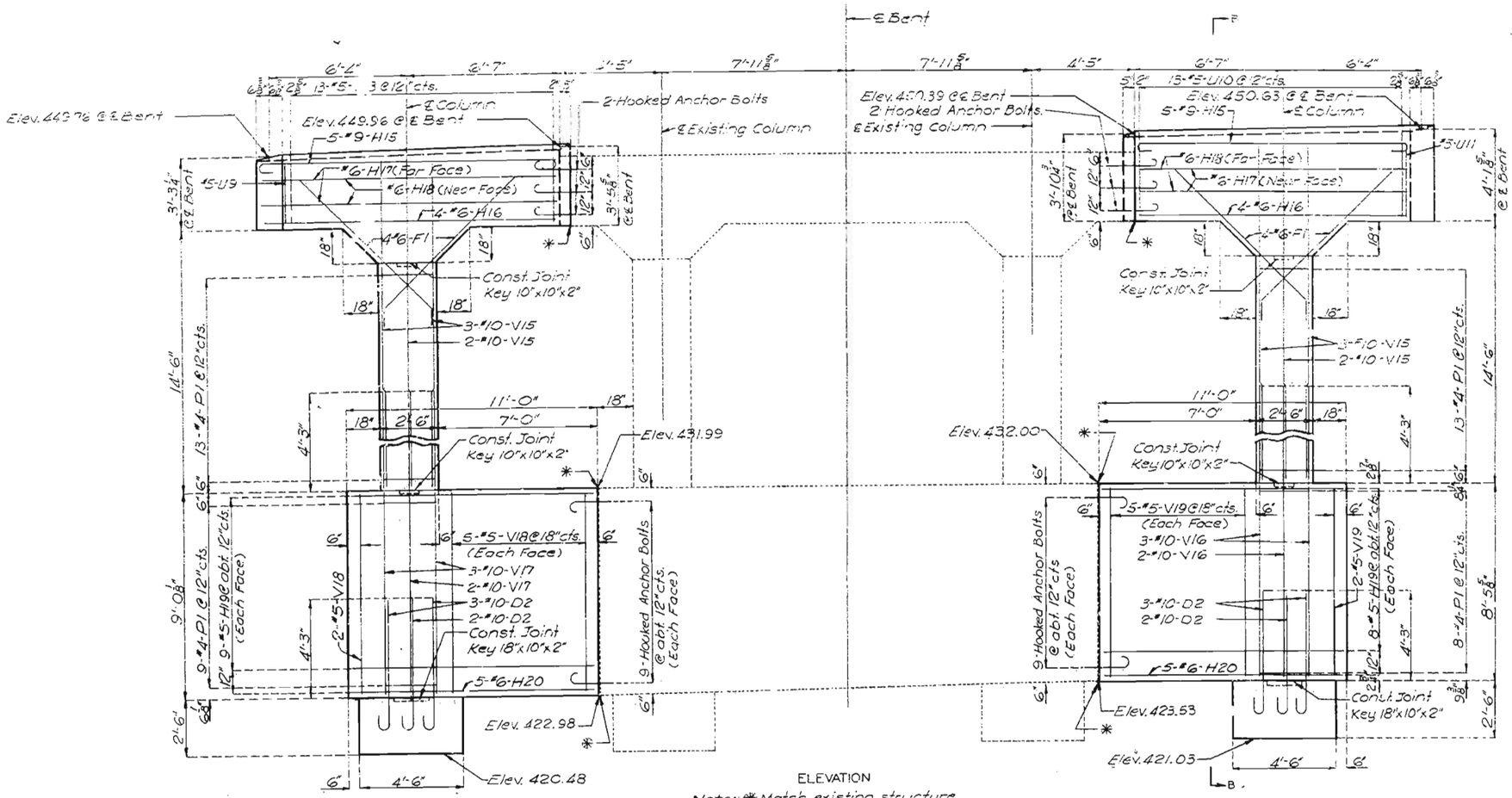
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	MO.		73	12	

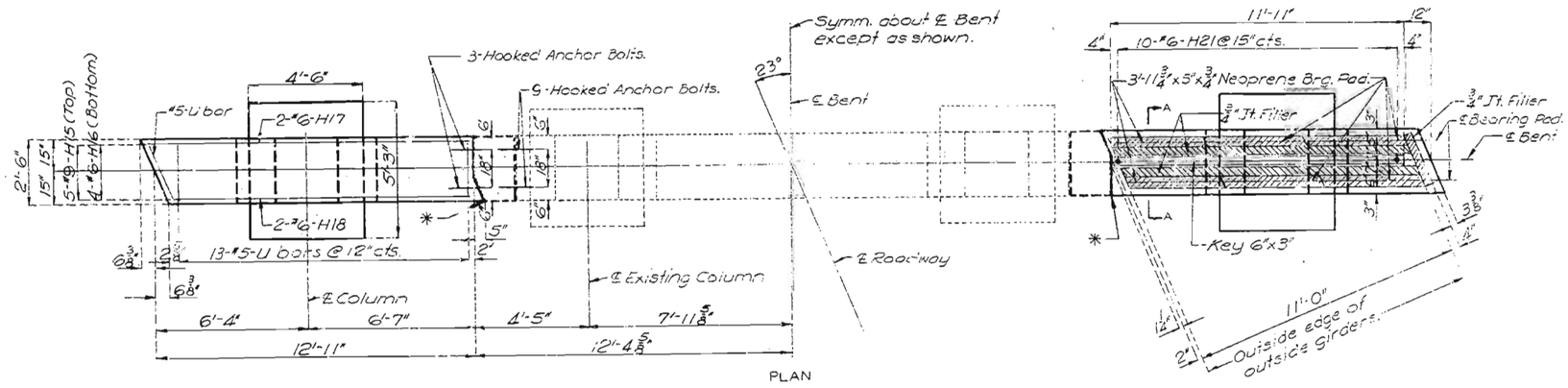
439



ELEVATION

SECTION B-B

Note: ✱ Match existing structure.
For Hooked Anchor Bolt Detail see sheet No. 3.



PLAN

PART SECTION A-A SHOWING BEAM KEY

DETAILS OF INT. BENT NO. 3

DETAILED MAY 1978
CHECKED JULY 1978

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

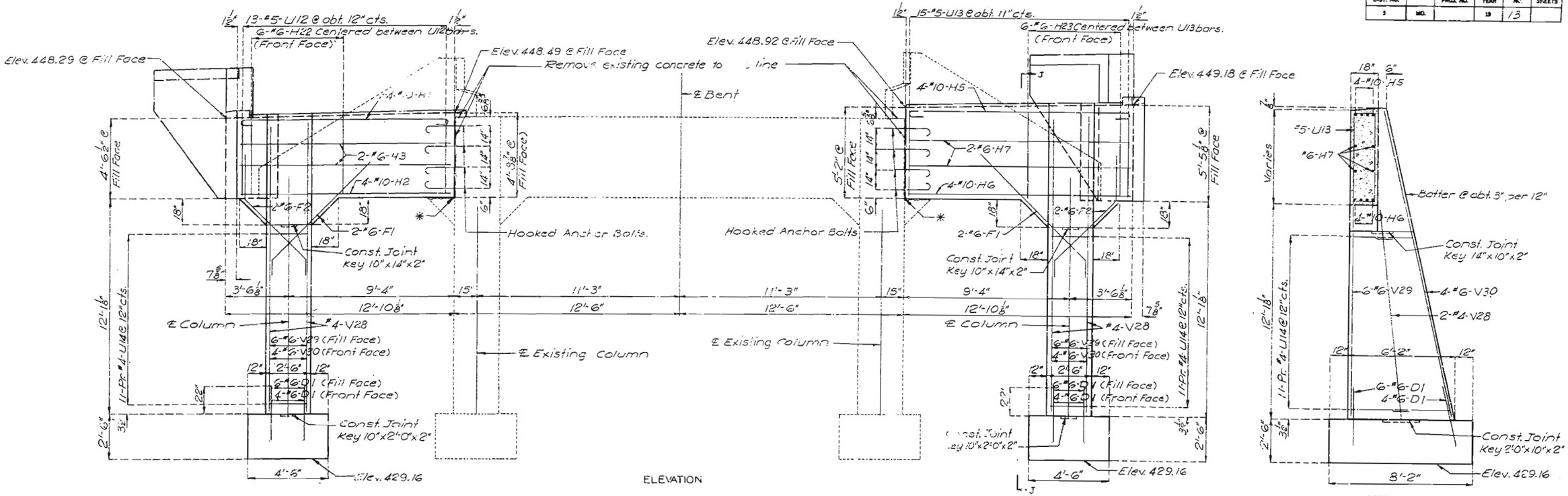
Sheet No. 6 of 13.

STE. GENEVIEVE COUNTY

J-134R

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	13	



DETAILED JUNE 1976
CHECKED JULY 1976

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

DETAILS OF END BENT NO. 4

Sheet No. 7 of 18.

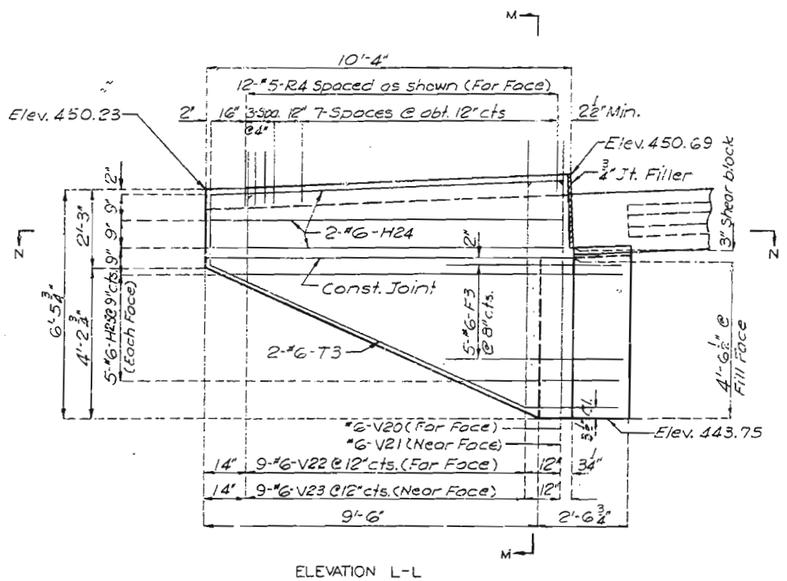
STE. GENEVIEVE **COUNTY**

J-134R

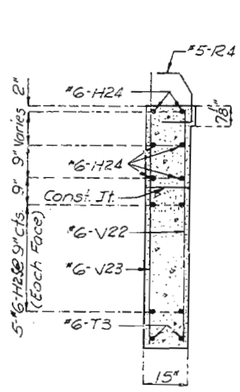
440

MISSOURI STATE HIGHWAY DEPARTMENT

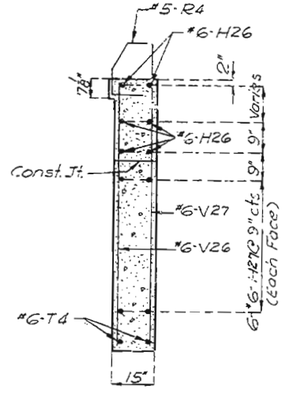
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	14	



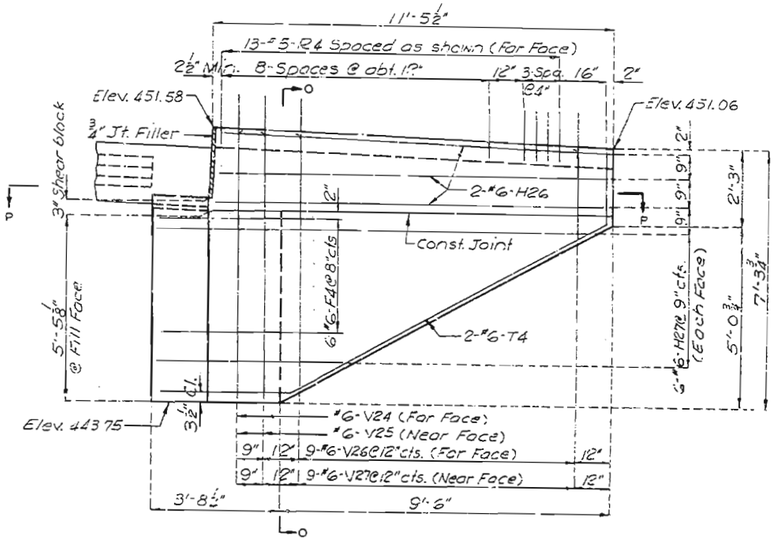
ELEVATION L-L



SECTION M-M

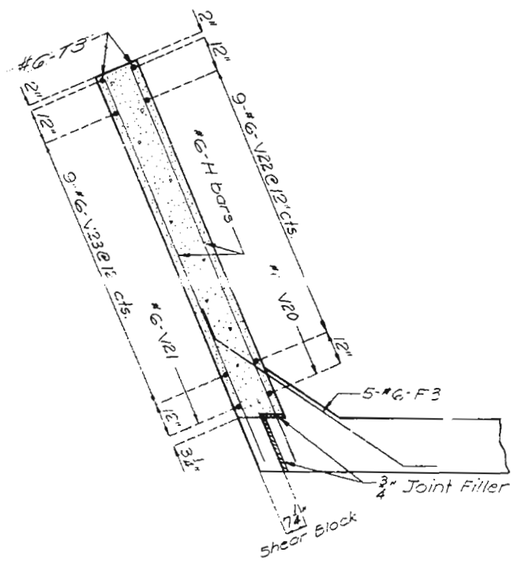


SECTION O-O

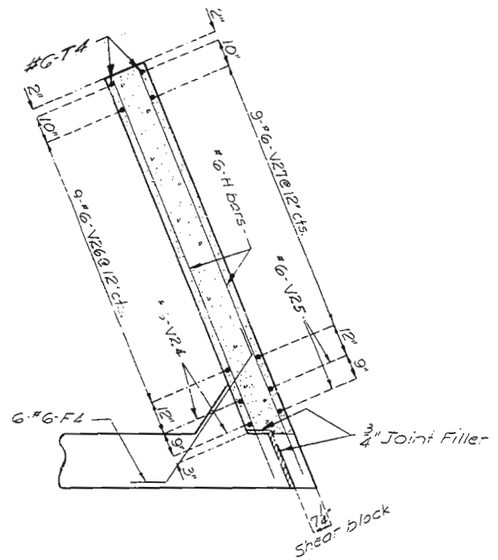


ELEVATION K-K

Note:
For location of Elevations K-K & L-L see sheet No. 7



SECTION N-N



SECTION P-P

141

DETAILED JUNE 1978
CHECKED JULY 1978

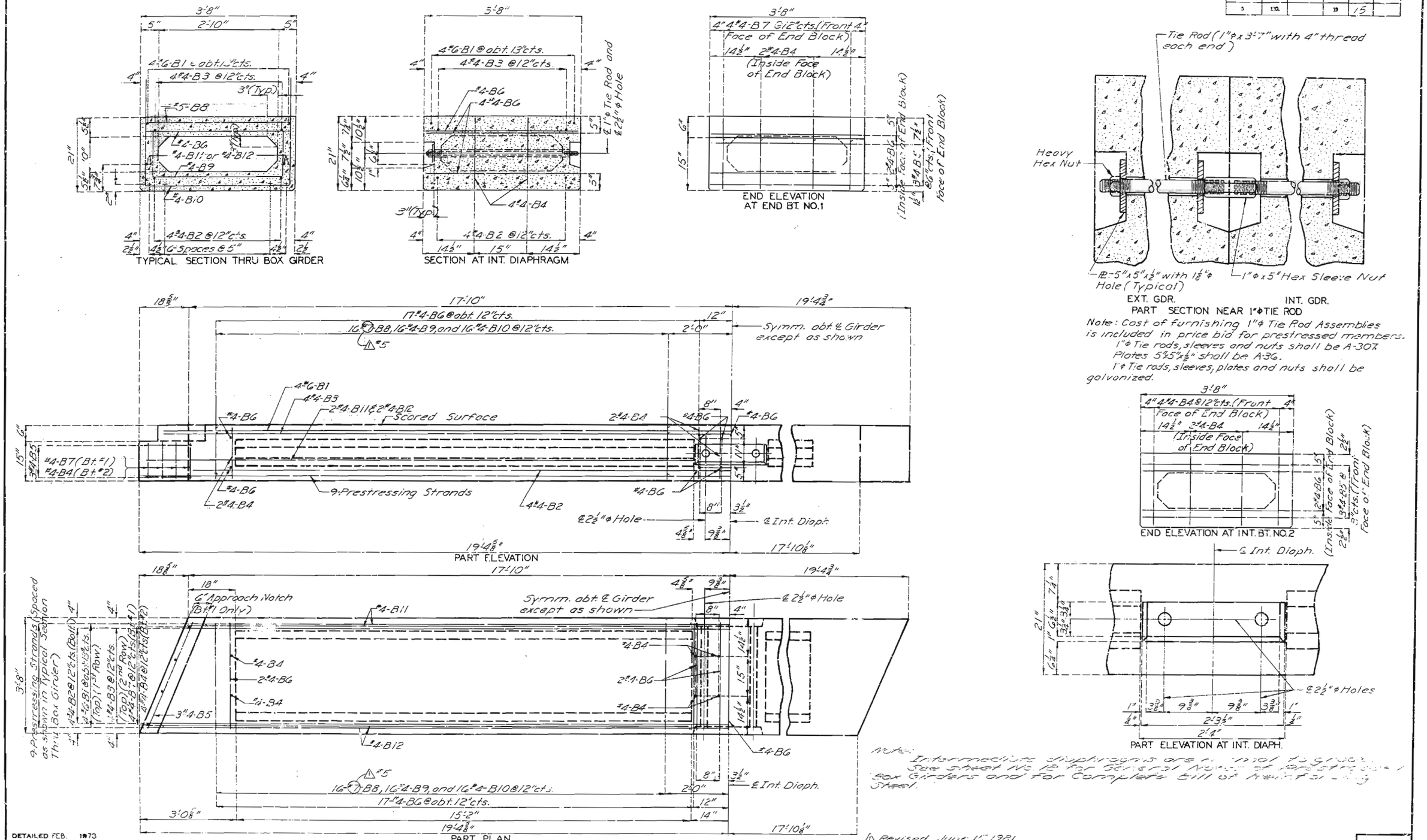
Note: This drawing is not to scale. Follow dimensions.

STE. GENEVIEVE COUNTY

J-134R

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	15	



442

DETAILED FEB. 1973
CHECKED [illegible] 19[illegible]

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

DETAILS OF BOX GIRDER SPAN (1-2) (6-REQ'D)

Revised June 15, 1981

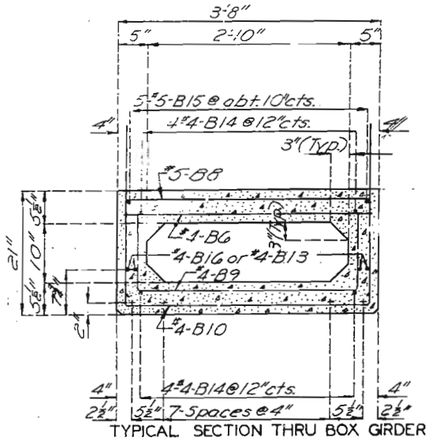
Sheet No. 9 of 18.

STE. GENEVIEVE COUNTY

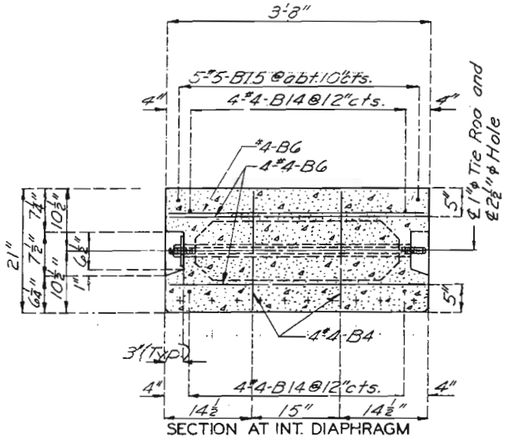
J-134 R

MISSOURI STATE HIGHWAY DEPARTMENT

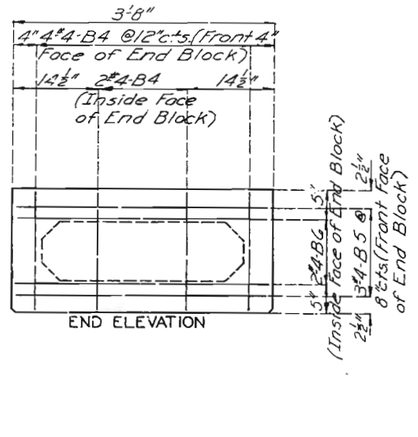
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	16	



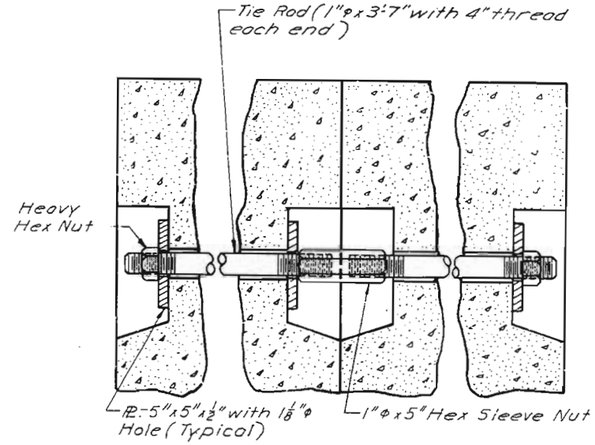
TYPICAL SECTION THRU BOX GIRDER



SECTION AT INT. DIAPHRAGM

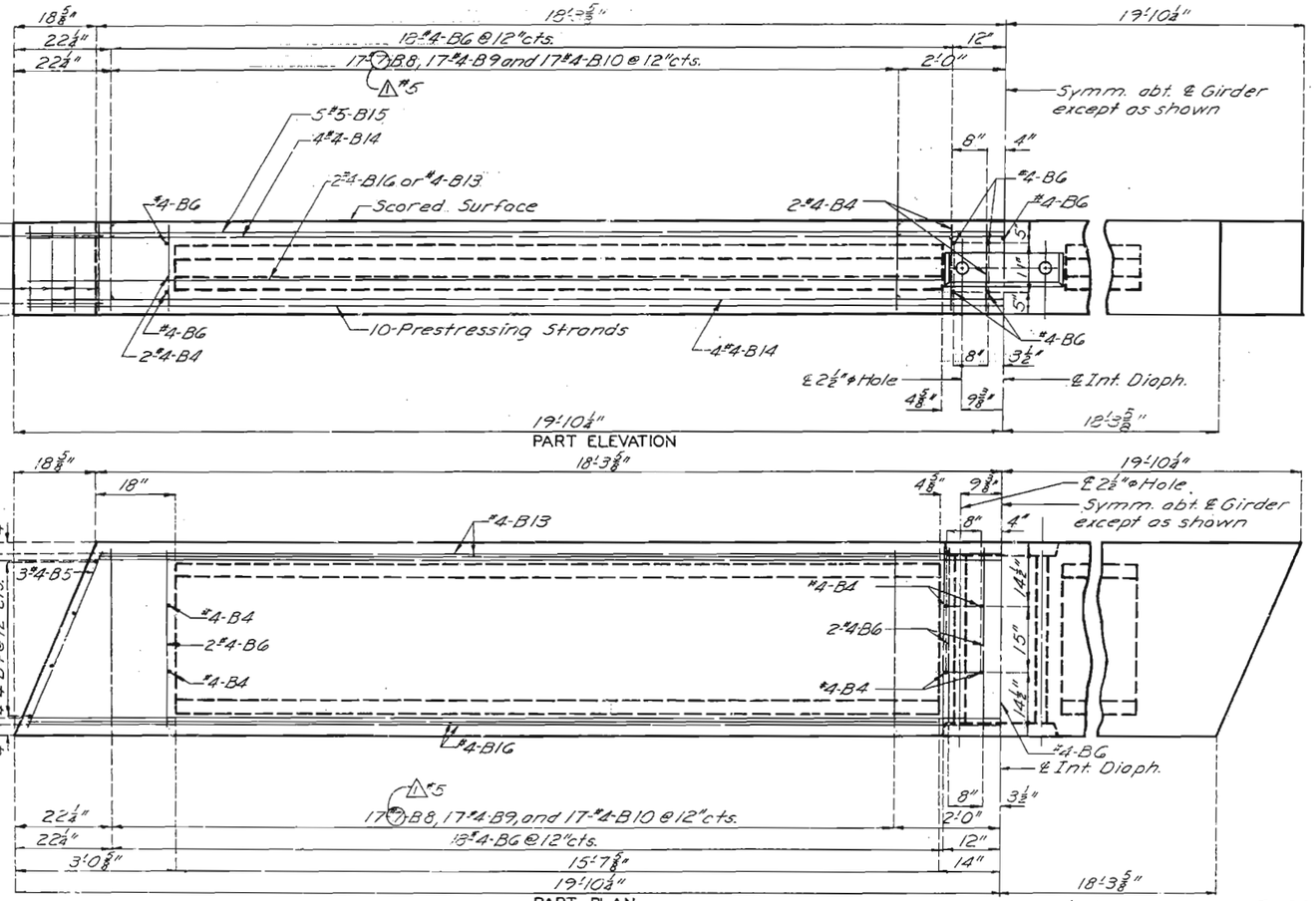


END ELEVATION



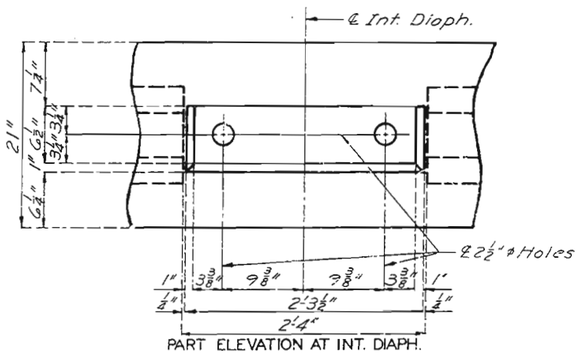
EXT. GDR. INT. GDR.
PART SECTION NEAR 1"Φ TIE ROD

Note: Cost of furnishing 1"Φ Tie Rod Assemblies is included in price bid for prestressed members.
1"Φ Tie rods, sleeves and nuts shall be A-307.
Plates 5"x5"x½" shall be A-36.
1"Φ Tie rods, sleeves, plates and nuts shall be galvanized.
Intermediate diaphragms are normal to grade.
See sheet No. 12 for General Notes of Prestressed Box Girders and for Complete Bill of Reinforcing Steel.



PART ELEVATION

PART PLAN



PART ELEVATION AT INT. DIAPH.

443

DETAILED FEB. 1978
CHECKED JUNE 1978

Note: This drawing is not to scale. Follow dimensions. DETAILS OF BOX GIRDER SPAN (2-3) (6-REQ'D)

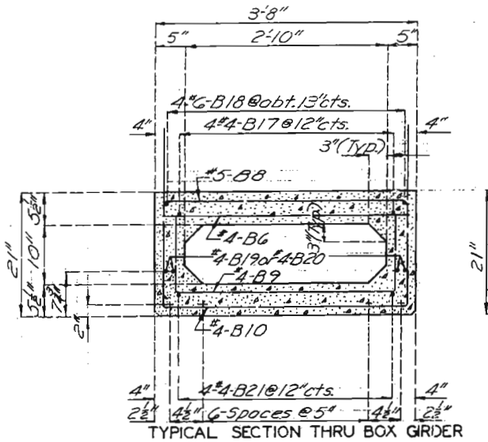
△ Revised June 15, 1981

Sheet No. 10 of 16 .

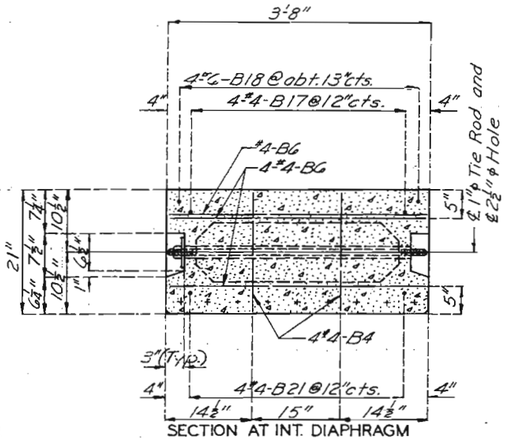
STE. GENEVIEVE COUNTY J-134 R

MISSOURI STATE HIGHWAY DEPARTMENT

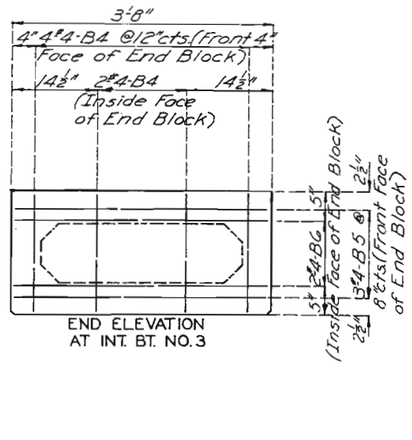
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	17	



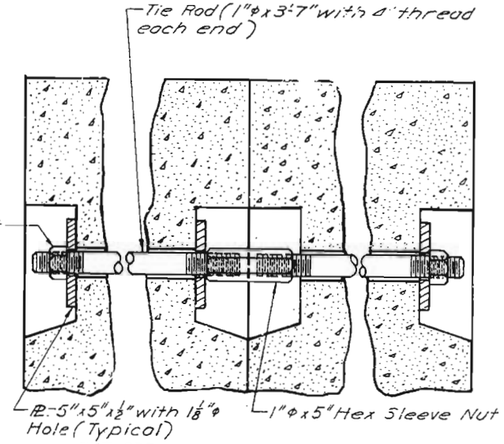
TYPICAL SECTION THRU BOX GIRDER



SECTION AT INT. DIAPHRAGM



END ELEVATION AT INT. BT. NO. 3

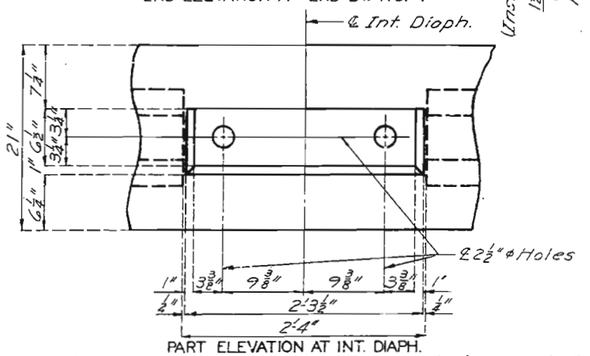


EXT. GDR. INT. GDR.

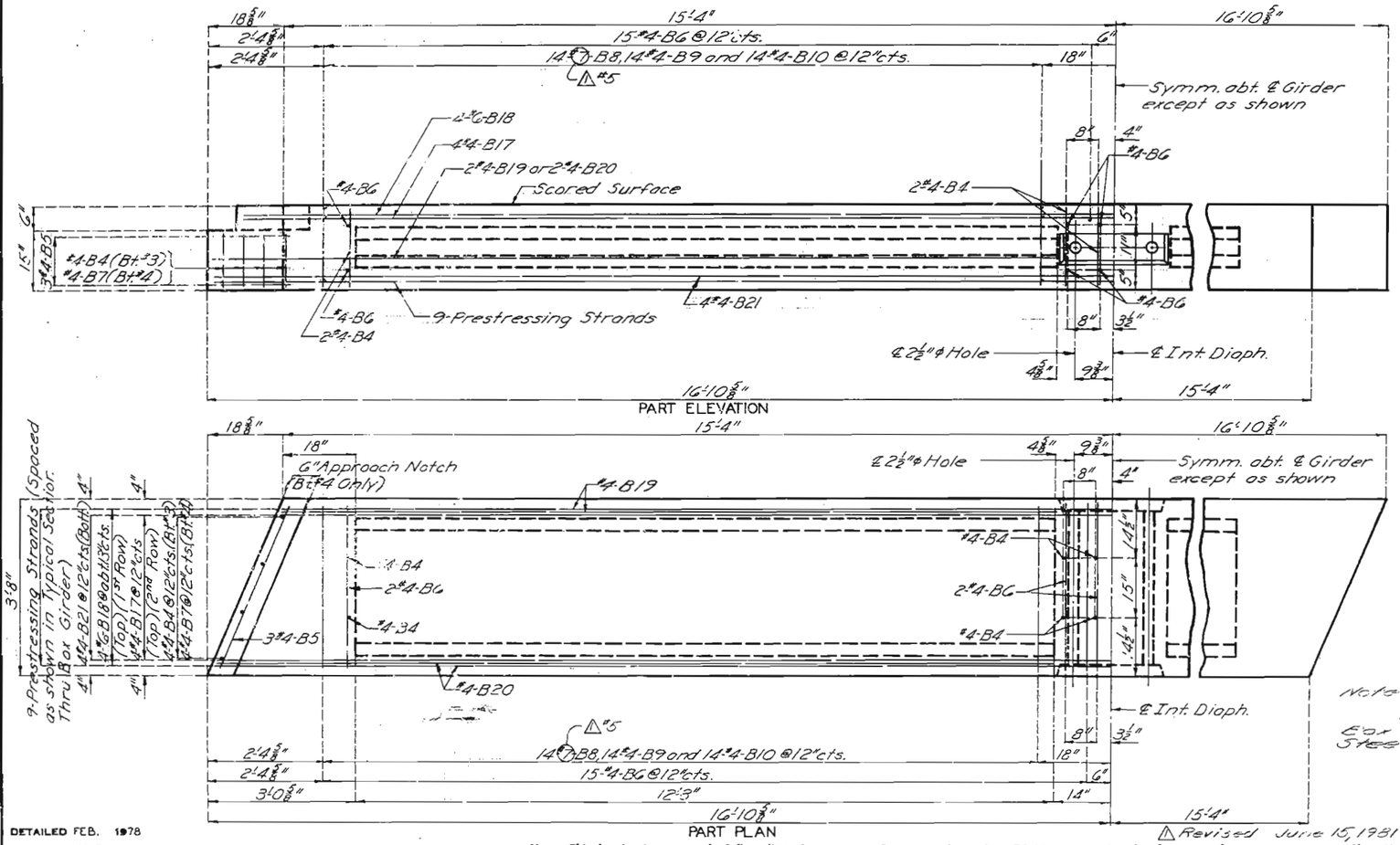
PART SECTION NEAR 1"φ TIE ROD

Note: Cost of furnishing 1"φ Tie Rod Assemblies is included in price bid for prestressed members.
1"φ Tie rods, sleeves and nuts shall be A-307.
Plates 5"x5"x½" shall be A-36.
1"φ Tie rods, sleeves, plates and nuts shall be galvonized.

END ELEVATION A. END BT. NO. 4



PART ELEVATION AT INT. DIAPH.



PART ELEVATION

PART PLAN

Note: Intermediate diaphragms are optional to Grade. See Sheet No. 12 for General Notes of Prestressed Box Girders and for Complete Det. of Reinforcing Steel.

△ Revised June 15, 1981

DETAILED FEB. 1978
CHECKED JUNE 1978

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

DETAILS OF BOX GIRDER SPAN (4-3) (6-REQ'D)

Sheet No. 11 of 18.

STE. GENEVIEVE COUNTY

J-134 R

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MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	MO		19	18	

445

SPAN (1-2) COMPLETE BILL OF REINFORCING STEEL-EACH BOX GIRDER

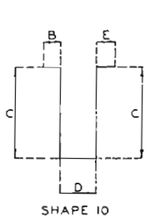
NO. REQ'D	MARK NO / SIZE MARK	LOCATION	GRADE 60 (H)	SHAPE NO.	STIRRUP (S)	SUBSTR (X)	VARIES (V)	NO. EACH	B	C	D	E	F	H	K	NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT
									FT IN	FT IN	FT IN	FT IN	FT IN	FT IN	FT IN	FT IN	FT IN	LBS
4	481	BOX GIRDER		20					36 5.000							36 5	36 5	219
4	482	BOX GIRDER		20					36 11.000							36 11	36 11	99
4	483	BOX GIRDER		20					36 5.000							36 5	36 5	97
4	484	BOX GIRDER		20					18.000							18	18	16
4	485	BOX GIRDER		20					3 7.000							3 7	3 7	14
47	486	BOX GIRDER		20					3 4.000							3 4	3 4	105
4	487	BOX GIRDER		20					12.000							12	12	3
32	588	BOX GIRDER		10	S					15.500	3 4.000					5 9	5 8	189
32	489	BOX GIRDER		10	S					14.000	3 1.000					5 5	5 3	112
32	4810	BOX GIRDER		10	S					2 7.500	3 4.000					8 7	8 5	180
4	4811	BOX GIRDER		20					16 4.000							16 4	16 4	44
4	4812	BOX GIRDER		20					17 11.000							17 11	17 11	48

SPAN (2-3) COMPLETE BILL OF REINFORCING STEEL-EACH BOX GIRDER

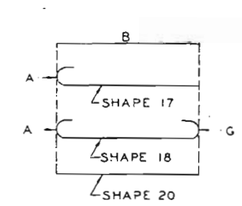
NO. REQ'D	MARK NO / SIZE MARK	LOCATION	GRADE 60 (H)	SHAPE NO.	STIRRUP (S)	SUBSTR (X)	VARIES (V)	NO. EACH	B	C	D	E	F	H	K	NOMINAL LENGTH	ACTUAL LENGTH	WEIGHT
									FT IN	FT IN	FT IN	FT IN	FT IN	FT IN	FT IN	FT IN	FT IN	LBS
20	484	BOX GIRDER		20					18.000							18	18	20
4	485	BOX GIRDER		20					3 7.000							3 7	3 7	14
49	486	BOX GIRDER		20					3 4.000							3 4	3 4	109
34	588	BOX GIRDER		10	S					15.500	3 4.000					5 9	5 8	201
34	489	BOX GIRDER		10	S					14.000	3 1.000					5 5	5 3	119
34	4810	BOX GIRDER		10	S					2 7.500	3 4.000					8 7	8 5	181
4	4813	BOX GIRDER		20					16 10.000							16 10	16 10	49
8	4814	BOX GIRDER		20					37 10.000							37 10	37 10	282
5	5815	BOX GIRDER		20					37 10.000							37 10	37 10	197
4	4816	BOX GIRDER		20					18 5.000							18 5	18 5	49

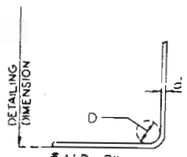
SPAN (3-4) COMPLETE BILL OF REINFORCING STEEL-EACH BOX GIRDER

NO. REQ'D	MARK NO / SIZE MARK	LOCATION	GRADE 60 (H)	SHAPE NO.	STIRRUP (S)	SUBSTR (X)	VARIES (V)	NO. EACH	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.
16	484	BOX GIRDER		20					18.000							18	18	16
4	485	BOX GIRDER		20					3 7.000							3 7	3 7	14
42	486	BOX GIRDER		20					3 4.000							3 4	3 4	94
4	487	BOX GIRDER		20					12.000							12	12	3
28	588	BOX GIRDER		10	S					15.500	3 4.000					5 9	5 8	166
28	489	BOX GIRDER		10	S					14.000	3 1.000					5 5	5 3	98
28	4810	BOX GIRDER		10	S					2 7.500	3 4.000					8 7	8 5	157
4	4817	BOX GIRDER		20					31 4.000							31 4	31 4	84
4	4818	BOX GIRDER		20					31 4.000							31 4	31 4	188
4	4819	BOX GIRDER		20					13 10.000							13 10	13 10	37
4	4820	BOX GIRDER		20					15 5.000							15 5	15 5	41
4	4821	BOX GIRDER		20					31 11.000							31 11	31 11	85



SHAPE 10





90° STIRRUP BEND

NOTE ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEG TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEG STANDARD HOOKS.
HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.
NOMINAL LENGTHS ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE.

GENERAL NOTES PRESTRESSED BOX GIRDERS

DESIGN UNIT STRESSES:
NON-PRESTRESSED REINFORCING STEEL: fs = 20 000 psi.
CONCRETE FOR PRESTRESSED GIRDERS:
ULTIMATE COMPRESSIVE STRESS: 5,000 p.s.i. (A 1.
MINIMUM COMPRESSIVE STRENGTH AT TRANSFER: 4,000 p.s.i.

PRESTRESSING TENDONS SHALL BE HIGH STRENGTH UNCOATED SEVEN WIRE STRESS RELIEVED STRANDS FOR PRESTRESSED CONCRETE CONFORMING TO A.S.T.M. A 416 EXCEPT THAT NOMINAL DIAMETER OF STRANDS = ½" AND NOMINAL AREA = 0.153 SQ. IN. AND MINIMUM ULTIMATE STRENGTH = 41,300 lbs (270 KSI).

THE METHOD AND SEQUENCE OF RELEASING STRANDS SHALL BE SHOWN ON THE SHOP DRAWINGS.

(+) INDICATES PRESTRESSED STRANDS

USE 9 STRANDS INITIAL PRESTRESSED FORCE = 260 KIPS (SPAN 1-2 & SPAN 3-4).
USE 10 STRANDS INITIAL PRESTRESSED FORCE = 289 KIPS (SPAN 2-3).

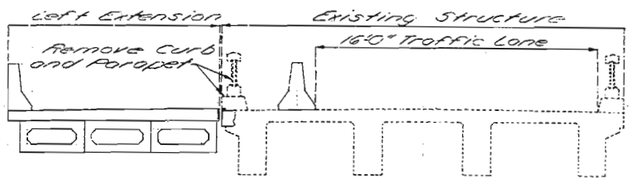
TWO ⅜" WEEP HOLES SHALL BE PROVIDED AT LOWER END OF EACH VOID THEY SHALL EXTEND THRU FORMS AND BE KEPT OPEN AT ALL TIMES.

MINIMUM CLEARANCE TO REINFORCING SHALL BE 1".

DETAILS OF PROPOSED LIFTING LOOPS AND LIFTING PROCEDURE SHALL BE SHOWN ON SHOP DRAWINGS SEE STD SPECS. 705.4.13.

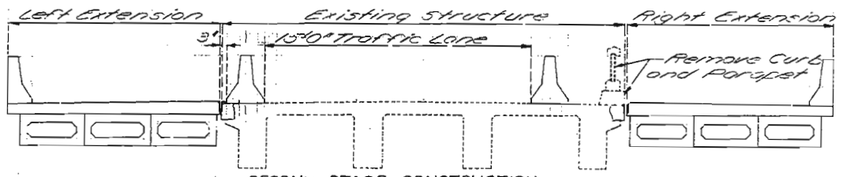
OMIT KEY OUTSIDE OF EXTERIOR GDR. ONLY.

PRESTRESSING STRANDS AT END BENTS NO1&4 SHALL BE TRIMMED TO WITHIN ½" OF CONCRETE. EXPOSED ENDS OF GIRDERS SHALL BE GIVEN TWO COATS OF AN ASPHALT PAINT.



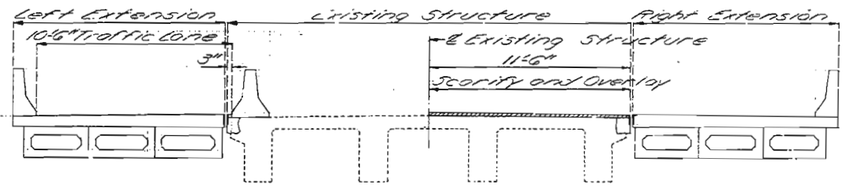
FIRST STAGE CONSTRUCTION

Build Left Extension.
Add temporary left hand barrier curb.
Remove existing left curb and parapet.
Repair existing left edge and add Type C Extension.
Maintain 16'0" Traffic Lane.



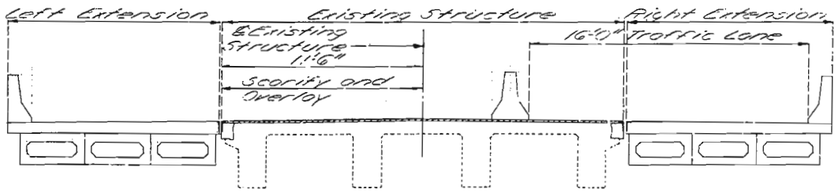
SECOND STAGE CONSTRUCTION

Build Right Extension.
Remove existing right curb and parapet.
Add temporary right barrier curb.
Repair existing right edge and add Type C Extension.
Relocate temporary left barrier curb.
Maintain 15'0" Traffic Lane.



THIRD STAGE CONSTRUCTION

Remove temporary right barrier curb and use temporary left barrier curb as the new temporary right barrier curb.
Scarify and add overlay to the right half of the existing structure.
Maintain 10'6" Traffic Lane.



FOURTH STAGE CONSTRUCTION

Relocate temporary right barrier curb and use as the temporary left barrier curb.
Scarify and add overlay to the left half of the existing structure.
Maintain 16'0" Traffic Lane.

STAGE CONSTRUCTION

DETAILED JULY 1978
CHECKED JULY 1978

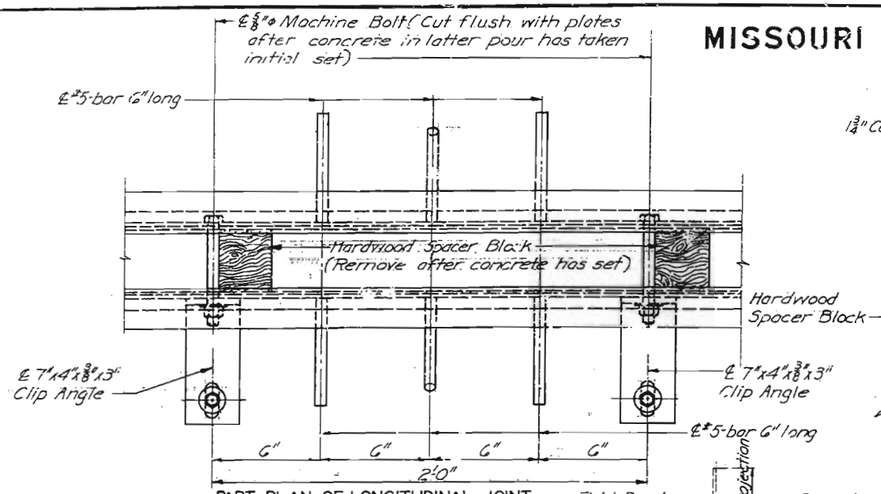
Note: This drawing is not to scale. Follow dimensions.

STE. GENEVIEVE COUNTY

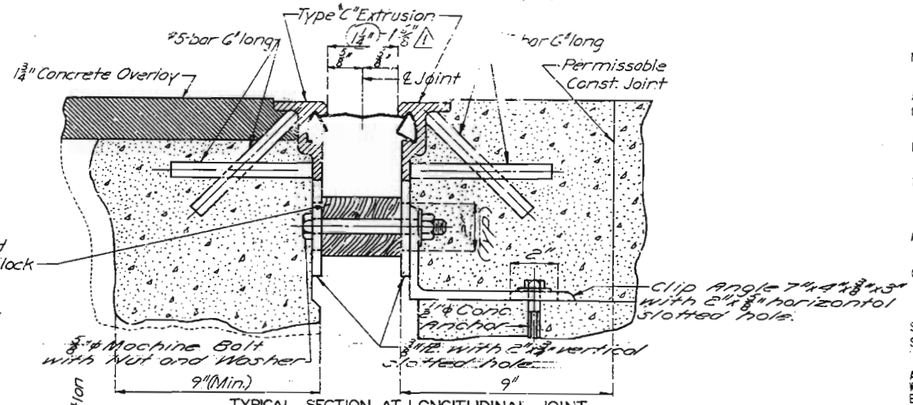
J-134R

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO	TOTAL SHEETS
5	MO.		13	13	

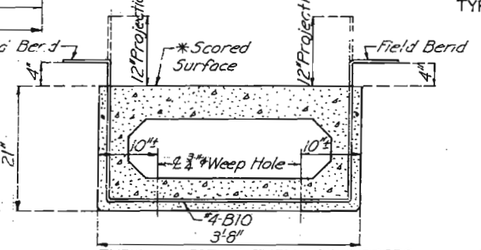


PART PLAN OF LONGITUDINAL JOINT

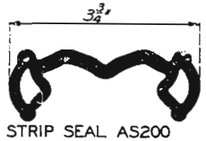


TYPICAL SECTION AT LONGITUDINAL JOINT

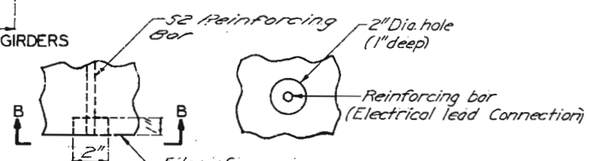
Note:
Diaphragms at intermediate bents are vertical.
Weep Holes to be centered between prestressed strands.
*Smooth finish a 3" wide strip at each end and at ℄ points across top of girder to accurate girder depth, for use in measuring camber.
For location of Detail "A" see sheet No. 14.



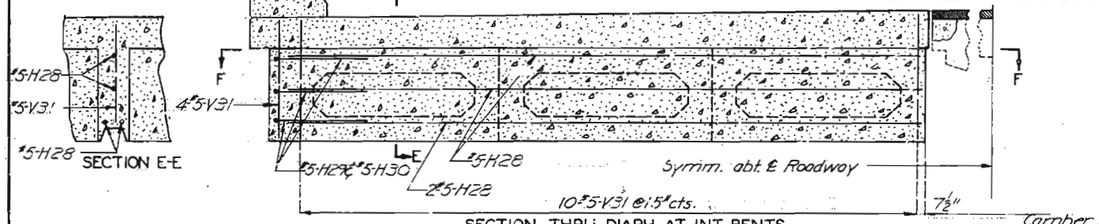
TYPICAL SECTION THRU BOX GIRDERS

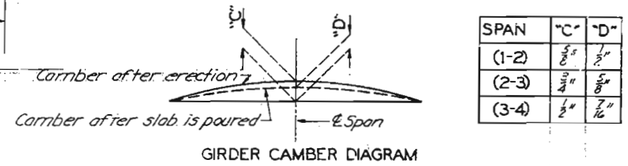


STRIP SEAL AS200



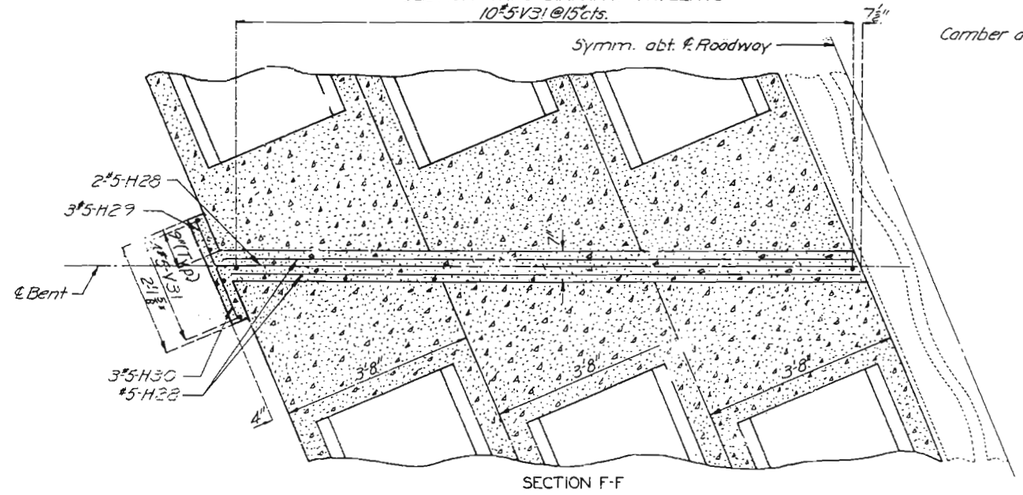
DETAIL "A" ELEVATION B-B



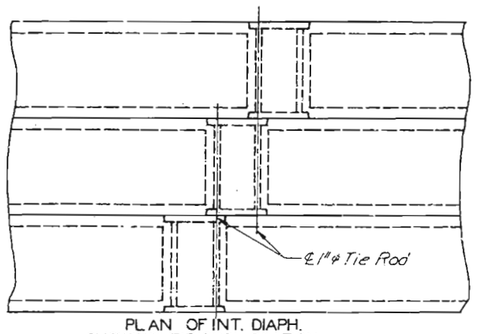


GIRDER CAMBER DIAGRAM

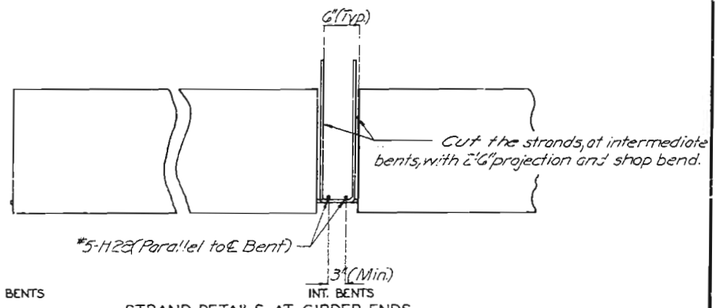
SPAN	"C"	"D"
(1-2)	⅝"	½"
(2-3)	¾"	⅝"
(3-4)	½"	7/16"



SECTION F-F



PLAN OF INT. DIAPH. SHOWING TIE ROD LOCATION



STRAND DETAILS AT GIRDER ENDS

NOTES FOR STRIP SEAL:

THE EXPANSION DEVICE TO BE FABRICATED AND INSTALLED IN ACCORDANCE WITH THE RECOMMENDATIONS OF ACME HIGHWAY PRODUCTS CORPORATION AND AS SET FORTH IN THE SPECIAL PROVISIONS.

THE CONTRACTOR MUST VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.

ALL WELDS SHALL CONFORM TO STANDARD A.W.S. AND A.A.S.H.T.O. 1977 SPECIFICATIONS FOR HIGHWAY BRIDGES.

SPLICES OF STEEL EXTRUSION SHALL DEVELOP FULL STRENGTH

ALL STEEL SHALL BE A-36 EXCEPT STEEL EXTRUSIONS SHALL BE A.S.T.M. A-588.

NEOPRENE EXTRUSIONS TO MEET A.S.T.M. D-2628-69 MODIFIED (RECOVERY TESTS EXCLUDED).

THE EXPANSION JOINTS SHALL PROVIDE A MOVEMENT OF 2".

THE EXPANSION DEVICE SHALL BE CAPABLE OF SEALING THE DECK SURFACE TO PREVENT MOISTURE AND OTHER CONTAMINANTS FROM DESSENDING THROUGH THE JOINT.

PAYMENT FOR STEEL EXTRUSIONS, NEOPRENE EXTRUSIONS, CONCRETE ANCHORS, PLATES, SPACER BLOCK, CLIP ANGLES, NUTS, BOLTS AND WASHERS SHALL BE MADE UNDER CONTRACT PRICE FOR "STRIP SEAL EXPANSION DEVICE".

NO. 5 REINFORCING BAR (STRUCTURAL GRADE)

APPROVED STUD WELDED ANCHORS MAY BE USED IN LIEU OF NO. 5 BARS SHOWN.

EXPOSED ENDS OF NEOPRENE EXTRUSIONS TO BE SEALED.

CONCRETE ANCHORS SHALL BE ½" STUD ANCHORS WITH A CERTIFIED CONCRETE PULL-OUT STRENGTH OF AT LEAST 5,200 LBS. IN 3,500 P.S.I. CONCRETE.

ALTERNATE METHOD OF INSTALLING THE STRIP SEAL MAY BE MADE AS APPROVED BY THE ENGINEER.

446

DETAILED JUNE 1978
CHECKED JUNE 1978

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

Revised 5-5-81 ⚠1

Sheet No. 13 of 13 .

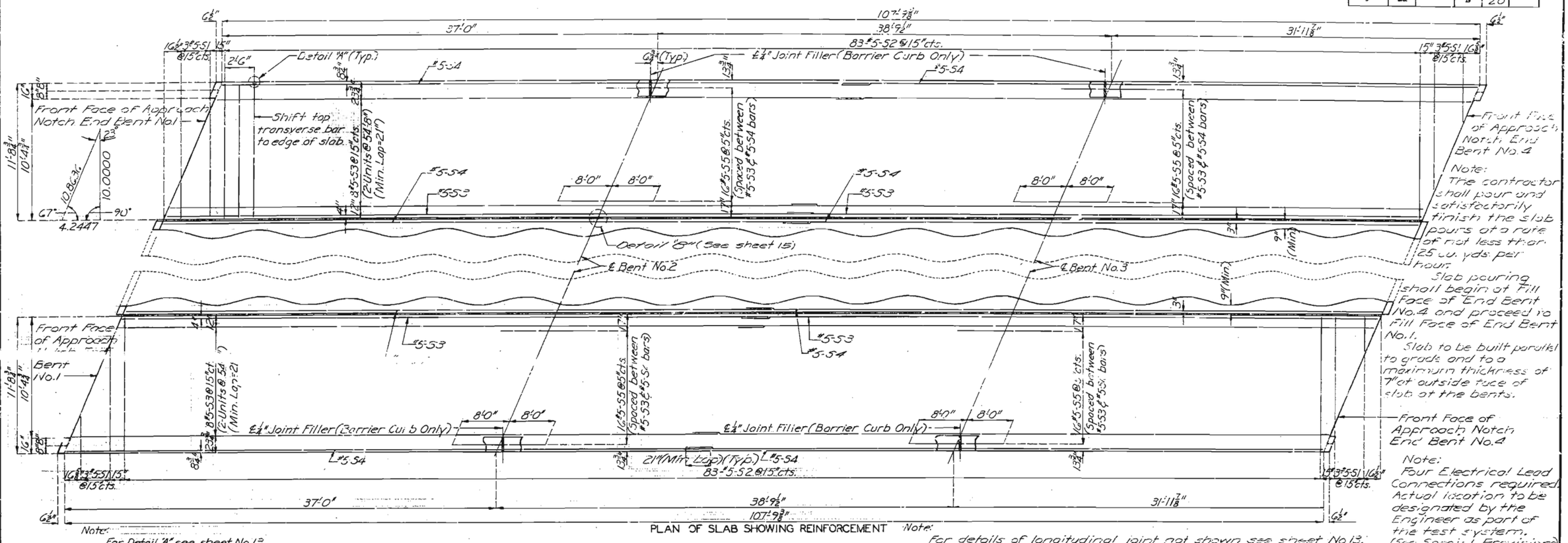
STE. GENEVIEVE COUNTY

J-134R

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	20	

Note: For Detail "B" see sheet No. 15.



Note: The contractor shall pour and satisfactorily finish the slab pours at a rate of not less than 25 cu. yds. per hour.

Slab pouring shall begin at Fill Face of End Bent No.4 and proceed to Fill Face of End Bent No.1.

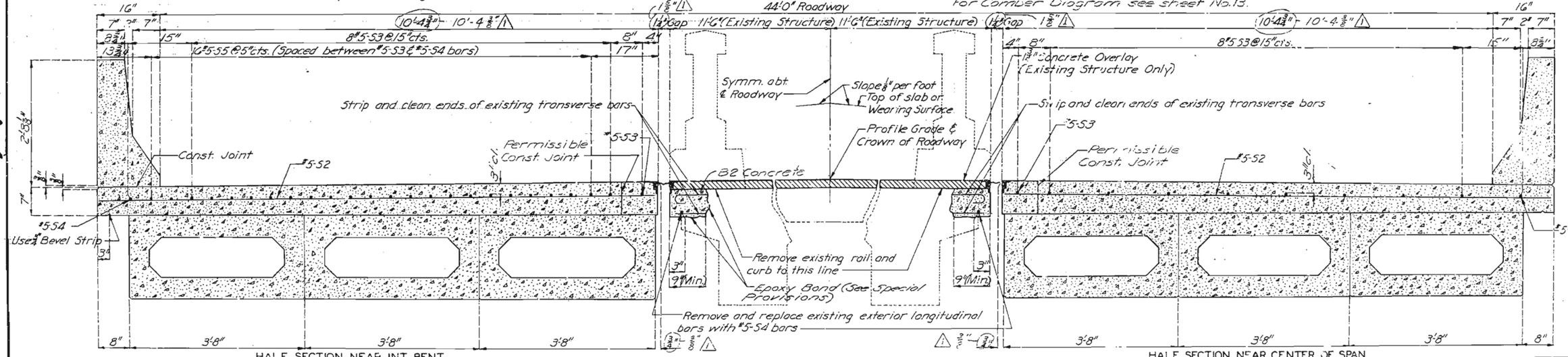
Slab to be built parallel to grade and to a maximum thickness of 7" at outside face of slab at the bents.

Note: Four Electrical Lead Connections required. Actual location to be designated by the Engineer as part of the test system. (See Special Provisions)

PLAN OF SLAB SHOWING REINFORCEMENT

Note: For Detail "A" see sheet No.13. For details and reinforcement of safety barrier bridge curb not shown see sheet No.16.

Note: For details of longitudinal joint not shown see sheet No.13. Longitudinal dimensions shown are taken parallel to grade at top of slab. For Camber Diagram see sheet No.13.



HALF SECTION NEAR INT. BENT

HALF SECTION NEAR CENTER OF SPAN

447

DETAILED JUNE 1978
CHECKED JULY 1978

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

Revised 5-5-81 ⚠1

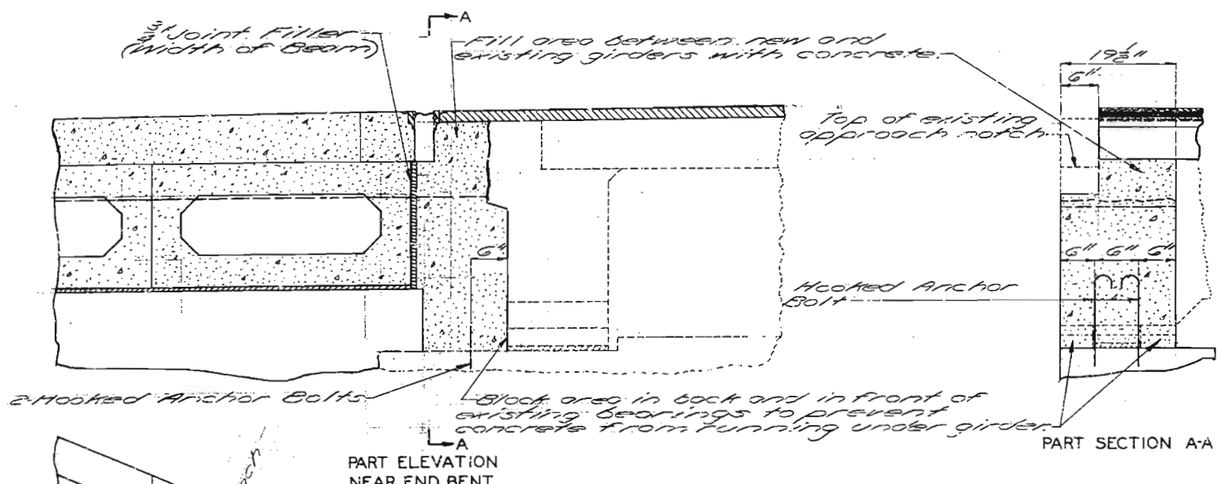
Sheet No. 14 of 19.

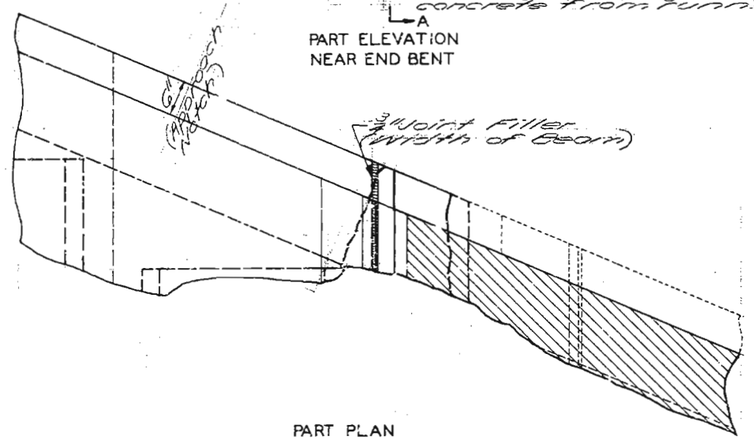
STE. GENEVIEVE COUNTY

J-134R

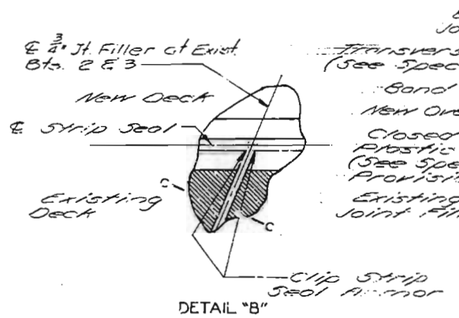
MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	21	

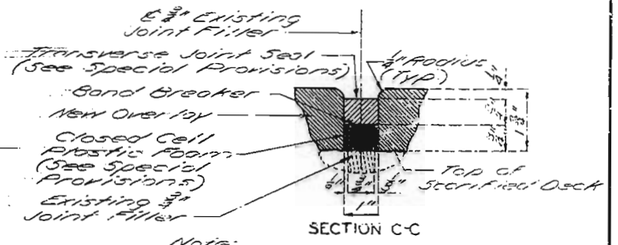




PART PLAN
NEAR END BENT



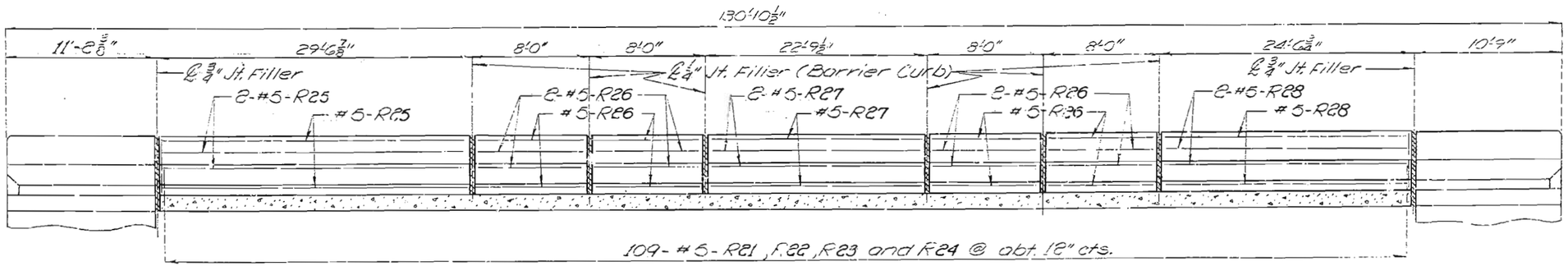
DETAIL "B"



SECTION C-C

Note:
The contractor will be permitted to clip the strip seal armor in the shop or in the field. Field measurements will be required if he elects shop fabrication.

Note:
For details of barrier curb not shown see sheet No. 16.
Longitudinal dimensions are along top of barrier curb parallel to grade.
For Detail of Hooked Anchor Bolt see sheet No. 3.
For Location of Detail "B" see sheet No. 14.



SECTION NEAR LEFT BARRIER CURB (RIGHT CURB SIMILIAR)

448

DETAILED June 19 78
CHECKED July 19 78

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

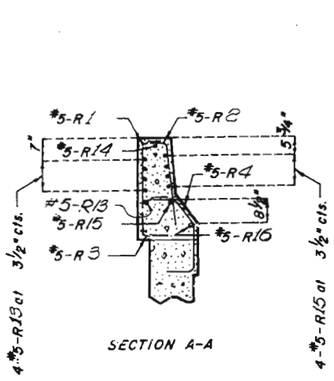
Sheet No. 15 of 18 .

STE. GENEVIEVE COUNTY

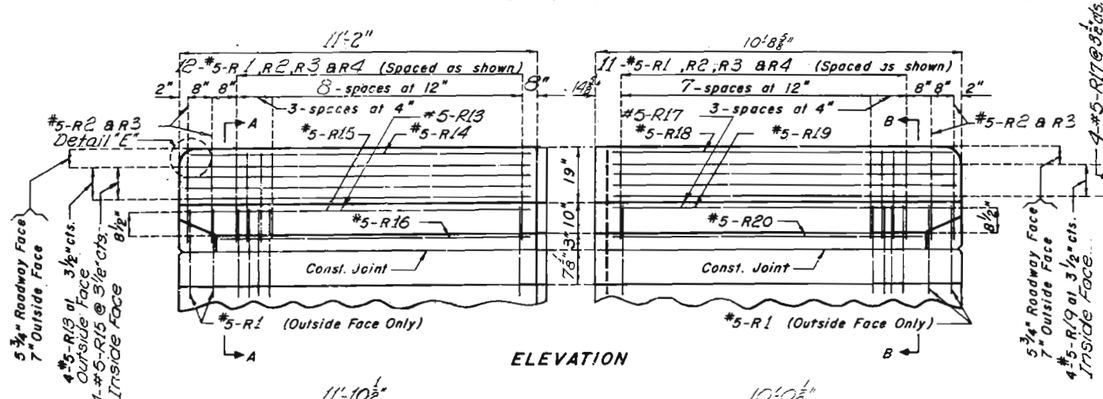
J-134R

MISSOURI STATE HIGHWAY DEPARTMENT

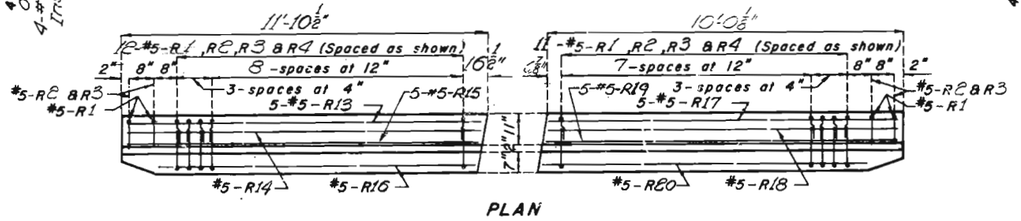
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	22	



SECTION A-A



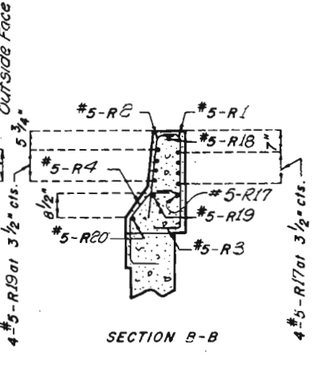
ELEVATION



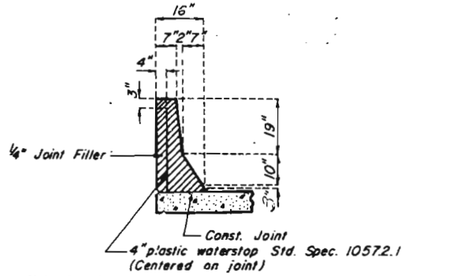
PLAN

END BENT NO. 1 END BENT NO. 4

DETAILS OF LEFT BARRIER CURB AT END BENTS



SECTION B-B



Note: Plastic waterstop shall be placed in all safety barrier curb filled joints.

Cost of plastic waterstop complete in place to be included in unit price bid for concrete.

DETAILS OF PLASTIC WATERSTOP

NOTES:

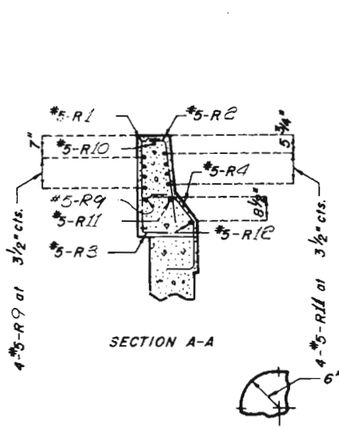
TOP OF BARRIER CURB TO BE BUILT PARALLEL TO GRADE WITH BARRIER CURB JOINTS NORMAL TO GRADE.

ALL EXPOSED EDGES OF BARRIER CURB SHALL HAVE 1/2" RADIUS OR 3/8" BEVEL UNLESS OTHERWISE NOTED.

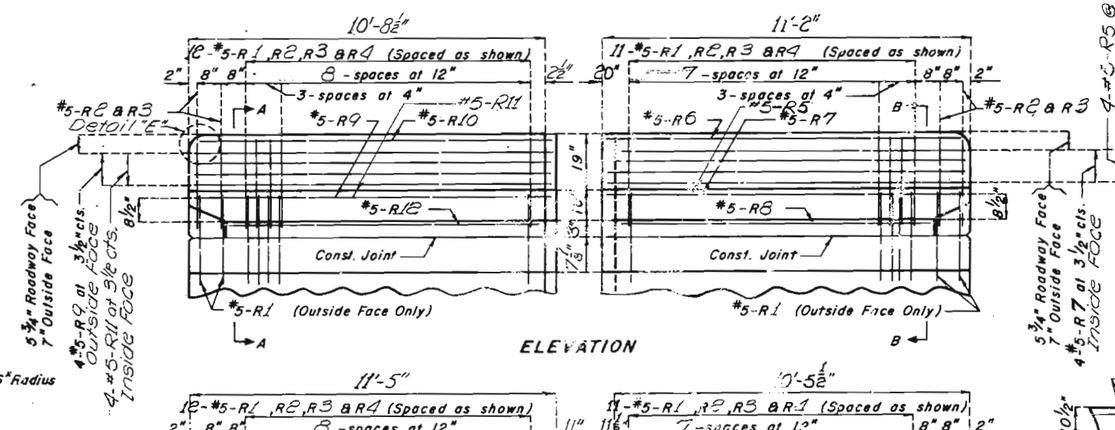
For details of barrier curb not shown see Sht. No. 15.

Longitudinal dimensions are along top of barrier curb parallel to grade.

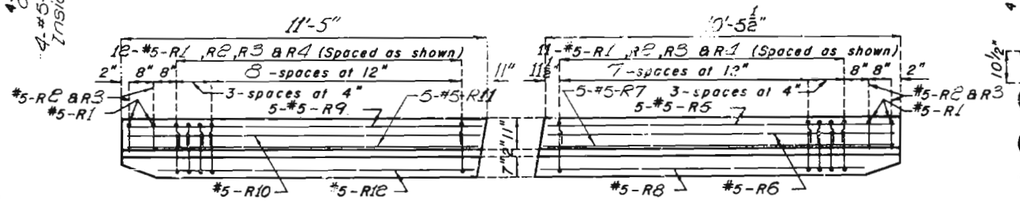
449



SECTION A-A



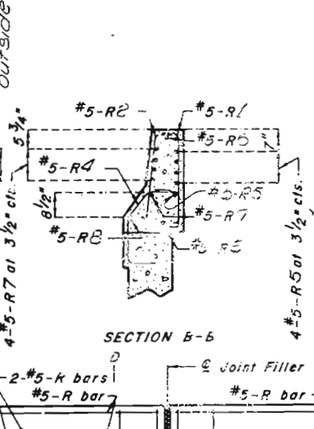
ELEVATION



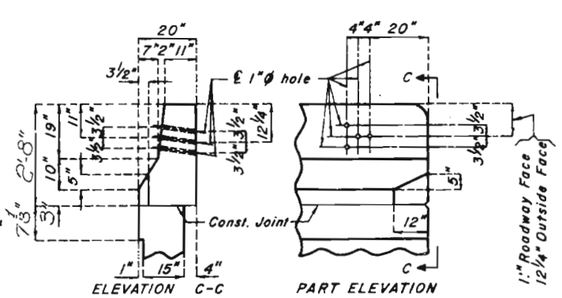
PLAN

END BENT NO. 4 END BENT NO. 1

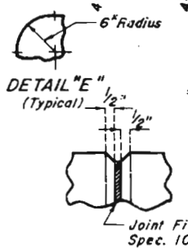
DETAILS OF RIGHT BARRIER CURB AT END BENTS



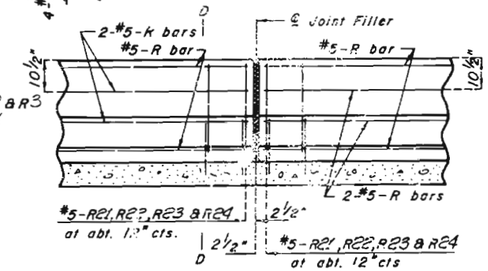
SECTION B-B



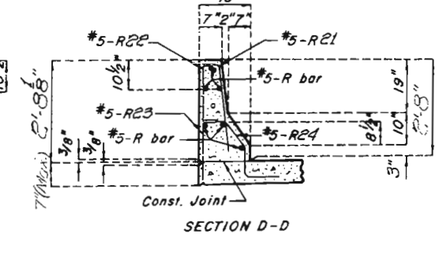
DETAILS OF GUARD RAIL ATTACHMENT



FILLED JOINT DETAIL



PART SECTION NEAR LEFT BARRIER CURB (Right Curb Similar)



SECTION D-D

STD. 1.7.6	REVISED
NOV. 1974	MAR. 1978

DETAILED June 1978
CHECKED July 1978

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

Sheet No. 12 of 12 sheets.

STE. GENEVIEVE **COUNTY**

J-134R

MISSOURI STATE HIGHWAY DEPARTMENT

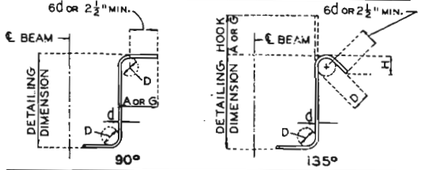
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	23	

COMPLETE BILL OF REINFORCING STEEL

NO. REQD.	MARK NO. SIZE	MARK NO. MARK	LOCATION	GRADE 60(H)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS B FT.	B IN.	C FT.	C IN.	D FT.	D IN.	E FT.	E IN.	F FT.	F IN.	H FT.	H IN.	K FT.	K IN.	NOMINAL LENGTH FT.	NOMINAL LENGTH IN.	ACTUAL LENGTH FT.	ACTUAL LENGTH IN.	WEIGHT LBS.
			SUBSTRUCTURE																									
			END BENT NO 1																									
20	6D1		FOOTING		20		X			2	10.000													2	10	2	10	85
4	6F1		COLUMN AND BEAM		23		X				14.125	6	5.000							10.000	10.000			7	7	7	7	46
4	6F2		COLUMN AND BEAM		23		X				14.125	5	3.000	14.125	10.000	10.000	10.000							7	7	7	6	45
6	6F3		WING AND BEAM		15		X				14.125	6	6.000	14.125	7.750	11.750	7.750							8	10	8	10	80
6	6F4		WING AND BEAM		15		X				14.000	4	4.500	13.875	12.500	6.000	10.500							6	8	6	7	59
4	10M1		BEAM		18		X				11 11.000													14	1	14	1	242
4	10M2		BEAM		20		X				11 11.000													11	11	11	11	205
4	6M3		BEAM		20		X				11 11.000													11	11	11	11	72
6	6M4		BEAM		20		X				5 3.000													5	3	5	3	47
4	10M5		BEAM		18		X				12 7.000													14	9	14	9	254
4	10M6		BEAM		20		X				12 7.000													12	7	12	7	217
4	6M7		BEAM		20		X				12 7.000													12	7	12	7	76
6	6M8		BEAM		20		X				4 7.000													4	7	4	7	41
14	6M9		WING		20		X	V	2		3 6.000													3	6	3	6	
			INCR = 13.375 IN								10 2.000													10	2	10	2	144
6	6M10		WING		20		X				10 3.000													10	3	10	3	92
2	6M11		WING		20		X				9 11.000													9	11	9	11	30
12	6M12		WING		20		X	V	2		4 3.000													4	3	4	3	
			INCR = 15.375 IN								10 8.000													10	8	10	8	134
6	6M13		WING		20		X				11 5.000													11	5	11	5	103
2	6M14		WING		20		X				11 0.000													11	0	11	0	33
2	6T1		WING		25		X				2 0.000	11	0.125	2	7.000					6	2.000	9	1.500	15	7	15	6	47
2	6T2		WING		25		X				2 0.000	10	7.000	3	2.000					5	4.250	9	1.500	15	9	15	8	47
13	5U1		BEAM		13	S	X				15.000	5	2.125	15.000	5	2.125								13	9	13	6	183
15	5U2		BEAM		13	S	X				15.000	4	6.625	15.000	4	6.625								12	6	12	3	192
36	4U3		COLUMN		10	S	X	V	4			3	3.000	2	3.000									8	9	8	7	
			INCR = 3.000 IN									2	3.000	2	3.000									6	9	6	7	182
12	6V1		COLUMN		20		X				14 7.000													14	7	14	7	263
8	6V2		COLUMN		20		X				15 0.000													15	0	15	0	180
4	4V3		COLUMN		20		X				11 2.000													11	2	11	2	30
1	6V4		WING		20		X				7 10.000													7	10	7	10	12
1	6V5		WING		20		X				9 0.000													9	0	9	0	14
9	6V6		WING		20		X	V	1		7 8.000													7	8	7	8	
			INCR = 7.375 IN								2 9.000													2	9	2	9	70
9	6V7		WING		20		X	V	1		8 10.000													8	10	8	10	
			INCR = 7.375 IN								3 11.000													3	11	3	11	86
2	6V8		WING		20		X				8 2.000													8	2	8	2	25
2	6V9		WING		20		X				7 0.000													7	0	7	0	21
9	6V10		WING		20		X	V	1		6 9.000													6	9	6	9	
			INCR = 6.375 IN								2 6.000													2	6	2	6	63
9	6V11		WING		20		X	V	1		7 11.000													7	11	7	11	
			INCR = 6.375 IN								3 9.000													3	8	3	8	78
			INT BENT NO 2																									
16	3D2		FOOTING		17		X				5 4.000													6	5	6	5	442
16	6F1		COLUMN		23		X				14.125	6	5.000							10.000	10.000			7	7	7	7	182

COMPLETE BILL OF REINFORCING STEEL

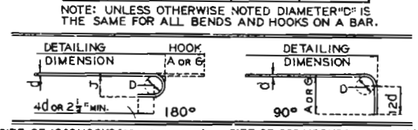
NO. REQD.	MARK NO. SIZE	MARK NO. MARK	LOCATION	GRADE 60(H)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS B FT.	B IN.	C FT.	C IN.	D FT.	D IN.	E FT.	E IN.	F FT.	F IN.	H FT.	H IN.	K FT.	K IN.	NOMINAL LENGTH FT.	NOMINAL LENGTH IN.	ACTUAL LENGTH FT.	ACTUAL LENGTH IN.	WEIGHT LBS.
10	9H15		BEAM		18		X	V	2	13	0.000													15	0	15	0	
			INCR = 3.000 IN							12	0.000													14	0	14	0	493
8	6H16		BEAM		20		X	V	2	13	0.000													13	0	13	0	
			INCR = 4.000 IN							12	0.000													12	0	12	0	150
4	6H17		BEAM		20		X			13	0.000													13	8	13	0	78
4	6H18		BEAM		20		X			12	0.000													12	0	12	0	72
28	5H19		COLLISION WALL		20		X			10	9.000													10	9	10	9	314
10	6H20		COLLISION WALL		20		X			10	9.000													10	9	10	9	161
44	4P1		COLUMN		13	S	X			2	3.000	2	3.000	2	3.000	2	3.000							9	9	9	6	279
1	5U4		BEAM		13	S	X			2	5.375	3	0.750	2	5.375	3	0.750							11	11	11	8	12
13	5U5		BEAM		13	S	X			2	3.000	3	0.750	2	3.000	3	0.750							11	7	11	3	153
1	5U6		BEAM		13	S	X			2	5.375	3	11.000	2	5.375	3	11.000							13	8	13	4	14
13	5U7		BEAM		13	S	X			2	3.000	3	8.125	2	3.000	3	8.125							12	9	12	6	169
16	10V12		COLUMN		20		X			18	8.000													18	8	18	8	1285
16	10V13		COLUMN		20		X			11	7.000													11	7	11	7	797
24	5V14		COLLISION WALL		20		X			7	1.500													7	2	7	2	179
			INT BENT NO 3																									
16	1D2		FOOTING		17		X			5	4.000													6	5	6	5	442
16	6F1		COLUMN		23		X				14.125	6	5.000							10.000	10.000			7	7	7	7	182
10	9H15		BEAM		18		X	V	2	13	0.000													15	0	15	0	
			INCR = 3.000 IN							12	0.000													14	0	14	0	493
8	6H16		BEAM		20		X	V	2	13	0.000													13	0	13	0	
			INCR = 4.000 IN							12	0.000													12	0	12	0	150
4	6H17		BEAM		20		X			13	0.000													13	0	13	0	78
4	6H18		BEAM		20		X			12	0.000													12	0	12	0	72
34	5H19		COLLISION WALL		20		X			10	9.000													10	9	10	9	381
10	6H20		COLLISION WALL		20		X			10	9.000													10	9	10	9	161
20	6H21		BEAM		20		X				21.000													21		21		53
43	4P1		COLUMN		13	S	X			2	3.000	2	3.000	2	3.000	2	3.000							9	9	9	6	273
13	5U8		BEAM		13	S	X			2	3.000	2	11.625	2	3.000	2	11.625							11	4	11	1	150
1	5U9		BEAM		13	S	X			2	5.375	2	11.625	2	5.375	2	11.625							11	9	11	5	12
13	5U10		BEAM		13	S	X			2	3.000	3	7.125	2	3.000	3	7.125							12	7	12	4	167
1	5U11		BEAM		13	S	X			2	5.375	3	7.125	2	5.375	3	7.125							13	0	12	8	13
16	10V15		COLUMN		20		X			17	3.000													17	3	17	3	1188
8	10V16		COLUMN		20		X			12	7.000													12	7	12	7	433
8	10V17		COLUMN		20		X			13	0.000													13	0	13	0	448
12	5V18		COLLISION WALL		20		X			8	9.000													8	9	8	9	110
12	5V19		COLLISION WALL		20		X			8	2.000													8	2	8	2	102
			END BENT NO 4																									
20	6D1		FOOTING		20		X			2	10.000													2	10	2	10	85
4	6F1		COLUMN AND BEAM		23		X				14.125	6	5.000							10.000	10.000			7	7	7	7	46
4	6F2		COLUMN AND BEAM		23		X				14.125	5	3.000	14.125	10.000	10.000	10.000			10.000	10.000			7	7	7	6	45
5	6F3		WING AND BEAM		15		X				14.125	6	6.000	14.125	7.750	11.750	7.750			11.750	8	10	8	10	8	10	8	10	64
6	6F4		WING AND BEAM		15		X				14.000	4	4.500	13.875	12.500	6.000	10.500			9.250	6	8	6	7	59				



STIRRUP HOOK DIMENSIONS
GRADES 40-50-60 KSI

BAR SIZE	D (IN.)	90° HOOK HOOK A OR G	135° HOOK HOOK A OR G	135° HOOK APPROX. H
#3	1-1/2"	4"	4"	2-1/2"
#4	2"	4-1/2"	4-1/2"	3"
#5	2-1/2"	6"	5-1/2"	3-3/4"
#6	4-1/2"	8"	7"	4-1/2"

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



SIZE OF 180° HOOKS (GRADE 40 KSI)
D = 5d FOR #3 THRU #11
D = 10d FOR #14 AND #18

SIZE OF 90° HOOKS (ALL GRADES) AND 180° HOOKS (GRADE 60 KSI)
D = 6d FOR #3 THRU #8
D = 8d FOR #9, #10 AND #11
D = 10d FOR #14 AND #18

END HOOK DIMENSIONS

BAR SIZE	180° HOOKS GRADE 40 A OR G	180° HOOKS GRADE 40 J	180° HOOKS GRADE 60 A OR G	180° HOOKS GRADE 60 J	90° HOOKS ALL GRADES A OR G
#3	5"	2-3/4"	5"	3"	6"
#4	6"	3-1/2"	6"	4"	8"
#5	7"	4-1/2"	7"	5"	10"
#6	8"	5-1/4"	8"	6"	12"
#7	9"	6-1/4"	10"	7"	14"
#8	10"	7"	11"	8"	16"
#9	12"	8"	15"	11-1/4"	19"
#10	13"	9"	17"	12-3/4"	22"
#11	14"	10"	19"	14-1/4"	2'-0"
#14	2'-2"	20-1/2"	2'-2"	20-1/2"	2'-7"
#18	2'-11"	2'-3"	2'-11"	2'-3"	3'-5"

NOTES:
ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEG. TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEG. STD. HOOKS.

HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.

H - HIGH STRENGTH (ASTM A-615 GRADE 60).

S - STIRRUP.

X - 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.

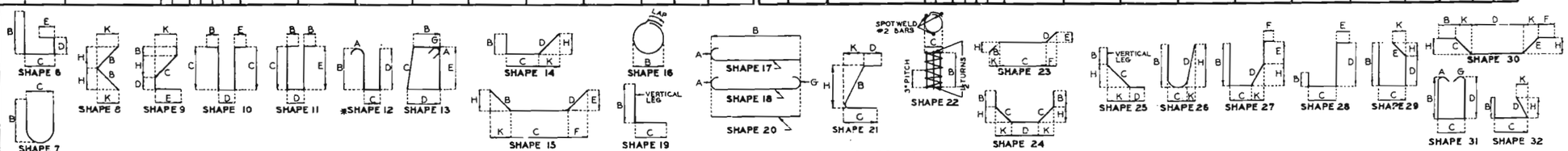
NOMINAL LENGTHS - ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)

ACTUAL LENGTHS - ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.

* ALL HOOKS AND BENDS FOR SHAPE NO. 12 - GRADE 40 (ONLY) ARE BASED ON D = 5d.

450

STD. 80.8 REVISED JULY 1978
MAY 1974



DETAILED JULY 1978
CHECKED JULY 1978

BENDING DIAGRAMS

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

Sheet No. 17 of 18.

STE. GENEVIEVE COUNTY

J-134R

MISSOURI STATE HIGHWAY DEPARTMENT

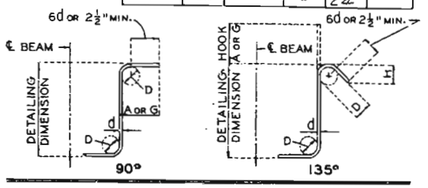
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	2a	

COMPLETE BILL OF REINFORCING STEEL

NO. REQD.	MARK NO. SIZE MARK	LOCATION	GRADE 60 (H)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS B FT. IN.	C FT. IN.	D FT. IN.	E FT. IN.	F FT. IN.	H FT. IN.	K FT. IN.	NOMINAL LENGTH FT. IN.	ACTUAL LENGTH FT. IN.	WEIGHT LBS.
4	10H1	BEAM		18		X			11 11.000							14 1	14 1	248
4	10H2	BEAM		20		X			11 11.000							11 11	11 11	205
4	6H3	BEAM		20		X			11 11.000							11 11	11 11	72
4	10H5	BEAM		18		X			12 7.500							14 9	14 9	254
4	10H6	BEAM		20		X			12 7.000							12 7	12 7	217
4	6H7	BEAM		20		X			12 7.000							12 7	12 7	76
6	6H22	BEAM		20		X			4 2.000							4 2	4 2	38
6	6H23	BEAM		20		X			4 11.000							4 11	4 11	44
6	6H24	WING		20		X			10 1.000							10 1	10 1	91
10	6H25	WING		20		X	V	2	4 5.000							4 5	4 5	
		INCR = 20.000 IN							11 1.000							11 1	11 1	116
6	6H26	WING		20		X			11 2.500							11 3	11 3	101
12	6H27	WING		20		X	V	2	4 9.000							4 9	4 9	
		INCR = 17.000 IN							11 10.000							11 10	11 10	149
2	6T3	WING		25		X			2 0.000	9 10.125	2 7.000			4 0.000	9 0.000	14 5	14 4	43
2	6T4	WING		25		X			2 0.000	10 3.500	3 2.000			4 10.000	9 1.000	15 6	15 5	46
13	5U12	BEAM		13	S	X			15.000	4 2.625	15.000	4 2.625				11 10	11 7	157
19	5U13	BEAM		13	S	X			15.000	4 10.125	15.000	4 10.125				13 1	12 10	201
44	4U14	COLUMN		10	S	X	V	4		2 2.500	2 3.000					6 8	6 6	
		INCR = 3.000 IN								3 5.500	2 3.000					9 2	9 0	228
1	6V20	WING		20		X			6 8.000							6 8	6 8	10
1	6V21	WING		20		X			7 10.000							7 10	7 10	12
9	6V22	WING		20		X	V	1	2 6.000							2 6	2 6	
		INCR = 5.875 IN							6 5.060							6 5	6 5	60
9	6V23	WING		20		X	V	1	3 8.000							3 8	3 8	
		INCR = 5.875 IN							7 7.000							7 7	7 7	76
2	6V24	WING		20		X			7 6.000							7 6	7 6	23
2	6V25	WING		20		X			8 8.000							8 8	8 8	24
9	6V26	WING		20		X	V	1	2 6.000							2 6	2 6	
		INCR = 7.000 IN							7 2.000							7 2	7 2	65
9	6V27	WING		20		X	V	1	3 8.000							3 8	3 8	
		INCR = 7.000 IN							8 4.000							8 4	8 4	81
4	6V28	COLUMN		20		X			11 9.000							11 9	11 9	31
12	6V29	COLUMN		20		X			16 2.000							16 2	16 2	291
8	6V30	COLUMN		20		X			16 8.000							16 8	16 8	200
		SUPERSTRUCTURE																
12	5S1	SLAB *		20			V	4	2 9.500							2 10	2 10	
		INCR = 35.000 IN							8 8.000							8 8	8 8	72
168	5S2	SLAB *①		20					11 5.000							11 5	11 5	2000
36	5S3	SLAB *		20					54 8.000							54 8	54 8	2253
8	5S4	SLAB		20					54 8.000							54 8	54 8	456
64	5S5	SLAB *		20					16 0.000							16 0	16 0	1068
16	5H28	INT. DIAPHRAGM		20					11 8.000							11 8	11 8	195
12	5H29	INT. DIAPHRAGM		15	S				10.250	2 0.500				9.375	4.000	2 11	2 10	35
12	5H30	INT. DIAPHRAGM		21	S				12.375	2 0.500				11.375	4.875	3 1	2 10	35
36	5H31	INT. DIAPHRAGM		20					2 1.000							2 1	2 1	122
54	5R1	BARRIER CURB		19	S				2 6.000	6.000						3 0	2 11	164
54	5R2	BARRIER CURB		15	S				2 6.125	6.000				2 6.000	3.000	3 0	2 11	164
54	5R3	BARRIER CURB		10	S					9.000	10.000					2 4	2 2	122
44	5R4	BARRIER CURB		27	S					12.000	7.000	11.125	9.000		6.375	9.125	3 3	3 1	148
5	5R5	BARRIER CURB		20					10 4.000							10 4	10 4	54
1	5R6	BARRIER CURB		20					10 6.000							10 6	10 6	11

COMPLETE BILL OF REINFORCING STEEL

NO. REQD.	MARK NO. SIZE MARK	LOCATION	GRADE 60 (H)	SHAPE NO.	STIRRUP (S)	SUBSTR. (X)	VARIES (V)	NO. EACH	DIMENSIONS B FT. IN.	C FT. IN.	D FT. IN.	E FT. IN.	F FT. IN.	H FT. IN.	K FT. IN.	NOMINAL LENGTH FT. IN.	ACTUAL LENGTH FT. IN.	WEIGHT LBS.
5	SR7	BARRIER CURB		20					10 8.000							10 8	10 8	56
1	SR8	BARRIER CURB		20					9 10.000							9 10	9 10	10
5	SR9	BARRIER CURB		20					10 11.000							10 11	10 11	57
1	SR10	BARRIER CURB		20					10 9.000							10 9	10 9	11
9	SR11	BARRIER CURB		20					10 7.000							10 7	10 7	55
1	SR12	BARRIER CURB		20					9 6.000							9 6	9 6	10
5	SR13	BARRIER CURB		20					11 6.000							11 6	11 6	60
1	SR14	BARRIER CURB		20					11 4.000							11 4	11 4	12
5	SR15	BARRIER CURB		20					11 2.000							11 2	11 2	58
1	SR16	BARRIER CURB		20					10 1.000							10 1	10 1	11
5	SR17	BARRIER CURB		20					9 9.000							9 9	9 9	51
1	SR18	BARRIER CURB		20					9 11.000							9 11	9 11	10
5	SR19	BARRIER CURB		20					10 2.000							10 2	10 2	53
1	SR20	BARRIER CURB		20					9 4.000							9 4	9 4	10
218	SR21	BARRIER CURB		15	S				2 6.125	3.500				2 6.000	3.000	2 10	2 9	625
218	SR22	BARRIER CURB		19	S				2 6.000	3.500						2 10	2 8	606
218	SR23	BARRIER CURB		19	S				17.000	6.000						23	22	417
218	SR24	BARRIER CURB		27	S					6.000	11.125	7.000	12.500	9.125	6.375	3 0	2 10	644
12	SR25	BARRIER CURB		20					29 3.000							29 3	29 3	366
48	SR26	BARRIER CURB		20					7 9.000							7 9	7 9	388
12	SR27	BARRIER CURB		20					22 6.000							22 6	22 6	282
12	SR28	BARRIER CURB		20					24 3.000							24 3	24 3	300
		END OF BAR LIST																

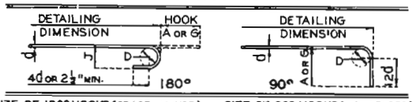


STIRRUP HOOK DIMENSIONS

GRADES 40-50-60 KSI

BAR SIZE	D (IN.)	90° HOOK	135° HOOK	
		HOOK A OR G	HOOK A OR G	APPROX. H
#3	1-1/2"	4"	4"	2-1/2"
#4	2"	4-1/2"	4-1/2"	3"
#5	2-1/2"	6"	5-1/2"	3-3/4"
#6	4-1/2"	8"	7"	4-1/2"

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



SIZE OF 180° HOOKS (GRADE 40 KSI)
D = 5d FOR #3 THRU #11
D = 10d FOR #14 AND #18

SIZE OF 90° HOOKS (ALL GRADES) AND 180° HOOKS (GRADE 60 KSI)
D = 6d FOR #3 THRU #8
D = 8d FOR #9, #10 AND #11
D = 10d FOR #14 AND #18

END HOOK DIMENSIONS

BAR SIZE	180° HOOKS GRADE 40 A OR G	180° HOOKS GRADE 40 J	180° HOOKS GRADE 60 A OR G	180° HOOKS GRADE 60 J	90° HOOKS ALL GRADES A OR G
#3	5"	2-3/4"	5"	3"	6"
#4	6"	3-1/2"	6"	4"	8"
#5	7"	4-1/2"	7"	5"	10"
#6	8"	5-1/4"	8"	6"	12"
#7	9"	6-1/4"	10"	7"	14"
#8	10"	7"	11"	8"	16"
#9	12"	8"	15"	11-1/4"	19"
#10	13"	9"	17"	12-3/4"	22"
#11	14"	10"	19"	14-1/4"	21-0"
#14	21-2"	20-1/2"	21-2"	20-1/2"	21-7"
#18	21-11"	21-3"	21-11"	21-3"	31-5"

NOTES:
ALL STANDARD HOOKS AND BENDS OTHER THAN 180 DEG. TO BE BENT WITH SAME PROCEDURE AS FOR 90 DEG. STD. HOOKS.

HOOKS AND BENDS SHALL BE IN ACCORDANCE WITH THE PROCEDURES AS SHOWN ON THIS SHEET.

H - HIGH STRENGTH (ASTM A-615 GRADE 60).

S - STIRRUP.

X 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.

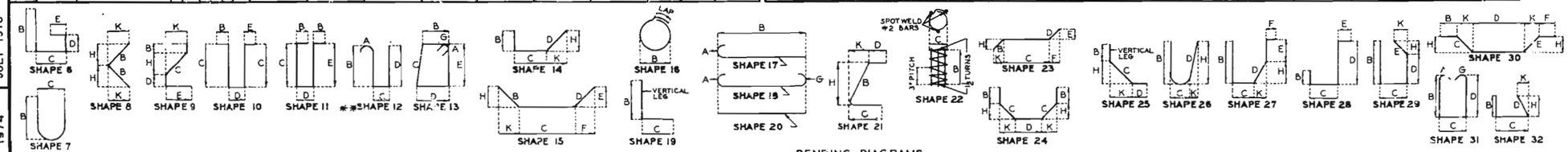
NOMINAL LENGTHS - ARE BASED ON OUT TO OUT DIMENSIONS SHOWN IN BENDING DIAGRAMS AND ARE LISTED FOR FABRICATORS USE. (NEAREST INCH)

ACTUAL LENGTHS - ARE MEASURED ALONG CENTERLINE BAR TO THE NEAREST INCH.

** ALL HOOKS AND BENDS FOR SHAPE NO. 12 - GRADE 40 (ONLY) ARE BASED ON D = 5d.

* EPOXY COATED.

① TWO ADDITIONAL S2 BARS ARE INCLUDED FOR TEST PURPOSES.



BENDING DIAGRAMS

REVISED	JULY 1978
STD. 90.8	MAY 1974

DETAILED JULY 1978
CHECKED JULY 1978

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

Sheet No. 18 of 18.

STE. GENEVIEVE COUNTY

J-134R

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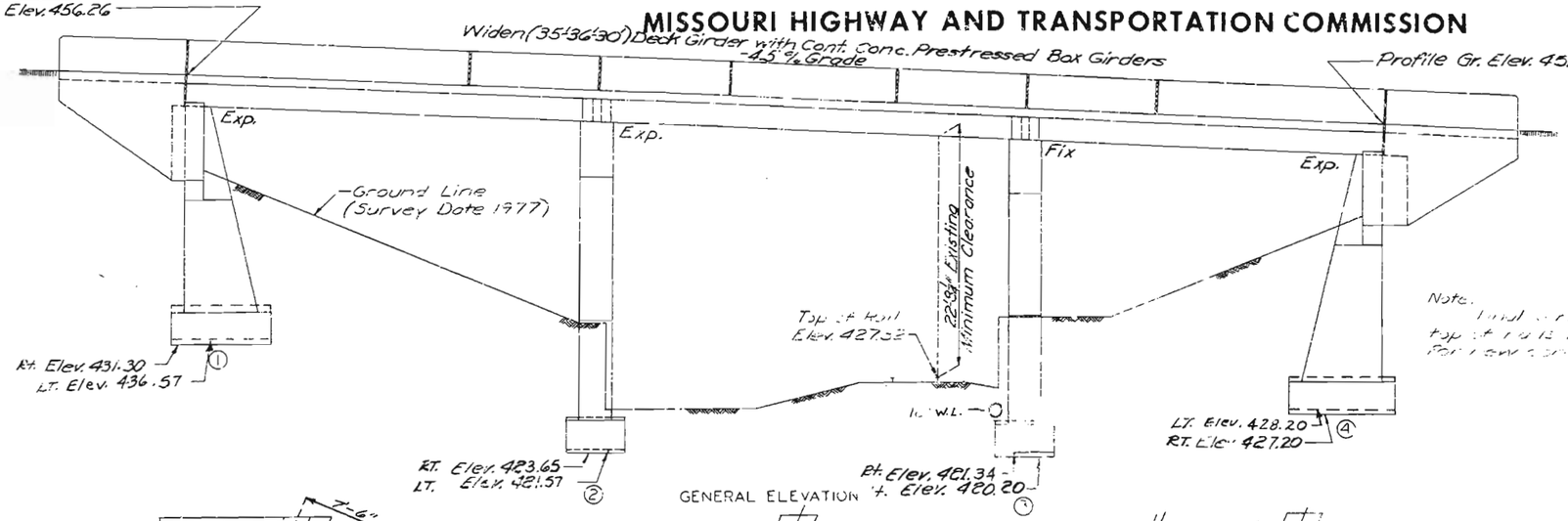
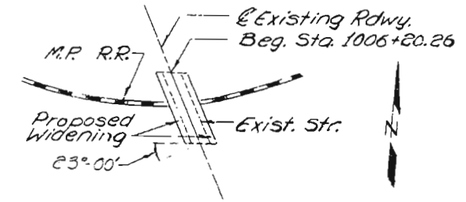
MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

F.I.D. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	7	

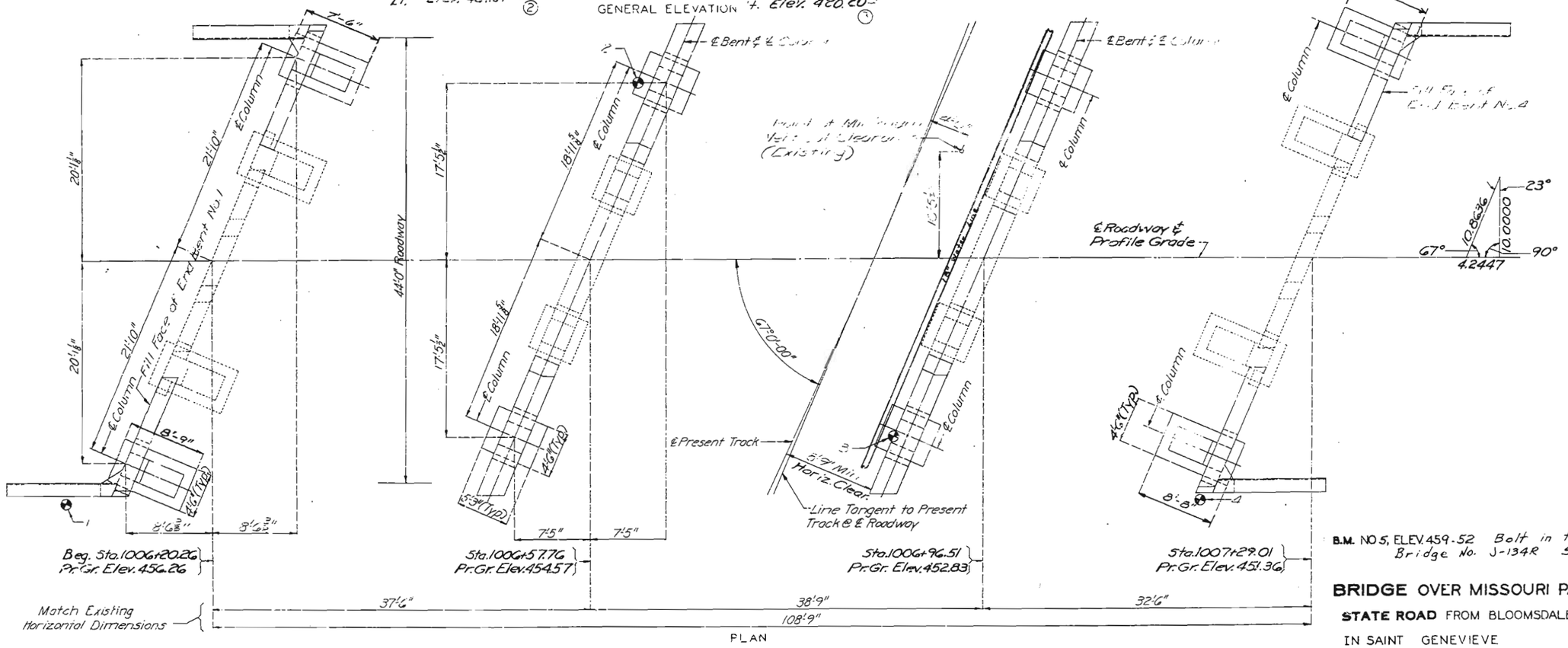
SEC. USPS 270 TWP. 38N RGE. 9E

Widen (35'-3 6/8") Deck Girder with Cont. Conc. Prestressed Box Girders -45° ℄ Grade





Note.
Final vertical clearance from top of rail to bottom of superstructure, for new construction is 22'-10 1/2"



Note: "⊕" Indicates location of boring.
For Boring Data, see sheet No. 2.
For General Notes and Final Quantities see sheet No. 2.

B.M. NO 5, ELEV. 459.52 Bolt in top N.W. End Post
Bridge No. J-134R Sta. 1006+20.26

BRIDGE OVER MISSOURI PACIFIC RAILROAD

STATE ROAD FROM BLOOMSDALE TO SAINT MARYS

IN SAINT GENEVIEVE

PROJECT NO. GR-GRG-785(1) Sec A **STA.** 1006+20.26

JOB NO. 6-P-61-317 **RTE.** 61

STE. GENEVIEVE **COUNTY**

DATE 9/1/78

STD.
STD. 706.30
J-134R

DESIGNED JAN. 1978
DETAILED JUNE 1978
CHECKED JULY 1978

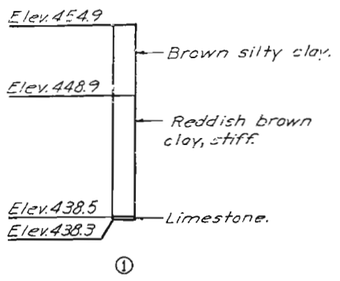
Note: This drawing is not to scale. Follow dimensions.

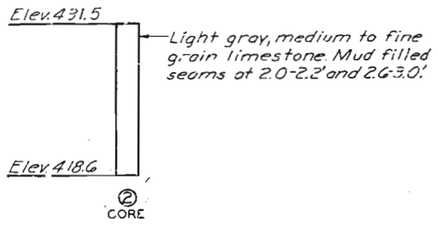
Sheet No. 1A of 12.

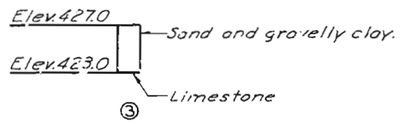
4-52

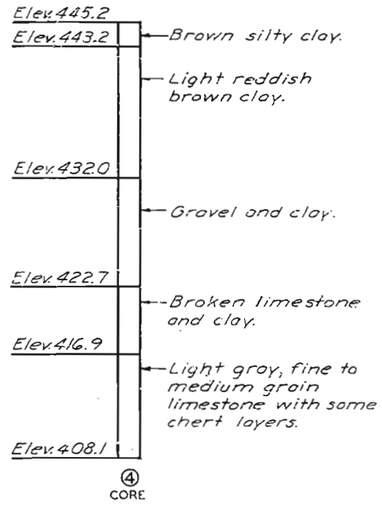
MISSOURI STATE HIGHWAY DEPARTMENT

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









BORING DATA

Note:
For location of borings see sheet No.1.

FOOTING DATA				
BENT NO.	1	2	3	4
FOUNDATION MATERIAL	ROCK	ROCK	ROCK	ROCK
DESIGN BEARING TONS/SQ.FT.	1.5	5.3	5.3	1.5

453

GENERAL NOTES:
DESIGN SPECIFICATIONS:
A A S H T O - 1973
DESIGN LOADING:
H20-44
NO FUTURE WEARING SURFACE
EARTH 120 LBS.
EQUIVALENT FLUID PRESSURE 30 LBS
SUPERSTRUCTURE: SIMPLY SUPPORTED NON-COMPOSITE FOR DEAD LOAD
SIMPLY SUPPORTED COMPOSITE FOR LIVE LOAD

DESIGN UNIT STRESSES:
CLASS B CONCRETE (SUBSTRUCTURE) fc = 1,200 psi
CLASS B2 CONCRETE (SUPERSTRUCTURE EXCEPT PRESTRESSED GIRDERS) fc = 1,600 psi
REINFORCING STEEL (GRADE 40) fs = 20,000 psi

NOTE:
FOR PRE-STRESSED GIRDER STRESSES SEE SHEET NO. -
BEARINGS ARE 60 DUROMETER NEOPRENE PADS
ALL JOINT FILLER . MEET THE REQUIREMENTS OF STD SPEC 1057 2.4
TRAFFIC OVER STRUCTURE WAS MAINTAINED DURING CONSTRUCTION SEE SPECIAL PROVISIONS

REINFORCING STEEL:
MINIMUM CLEARANCE TO REINFORCING STEEL . 1-1.2" UNLESS OTHERWISE SHOWN
ALL CONCRETE AND REINFORCEMENT IN SAFETY BARRIER CURBS IS INCLUDED WITH SUPERSTRUCTURE QUANTITIES.

OUTLINE OF OLD WORK IS INDICATED BY LIGHT DASHED LINES HEAVY LINES INDICATE NEW WORK

A MINIMUM VERTICAL CLEARANCE OF 21'-4-1/2" ABOVE THE TOP OF RAIL AND A MINIMUM LATERAL CLEARANCE, AT BENT NO. 3, OF 7'-3" AND AT BENT NO. 2 A MINIMUM LATERAL CLEARANCE OF 12'-6" FROM THE CENTERLINE OF TRACK TO ANY TEMPORARY CONSTRUCTION FALSEWORK WAS MAINTAINED DURING CONSTRUCTION

SEE JOB SPECIAL PROVISION FOR ALTERNATE USE OF CONCRETE WEARING SURFACE ON EXISTING STRUCTURE.

BARS BONDED IN OLD CONCRETE NOT REMOVED WERE CLEANLY STRIPPED AND EMBEDDED INTO NEW CONCRETE WHERE POSSIBLE. IF LENGTH IS AVAILABLE, OLD BARS SHALL EXTEND INTO NEW CONCRETE AT LEAST 40 DIAMETERS FOR SMOOTH BARS AND 30 DIAMETERS FOR DEFORMED BARS

ANCHORS WERE OF THE SELF DRILLING EXPANSION TYPE, MADE OF CASEHARDENED AND DRAWN CARBONIZED STEEL, WITH SELF-CUTTING ANNULAR BROACHING GROOVES.

COST OF FURNISHING AND INSTALLING HOOK ANCHOR BOLT ASSEMBLIES WAS INCLUDED IN PRICE BID FOR CONCRETE

FINAL QUANTITIES

ITEM		SUBSTR.	SUPERSTR.	TOTAL
CLASS 1 EXCAVATION	(CU. YD.)	277		277
CONCRETE WEARING SURFACE (Low Slump Concrete)	(SQ. YD.)		275	275
CLASS B CONCRETE	(CU. YD.)	139.8		139.8
CLASS B2 CONCRETE	(CU. YD.)		90.1	90.1
PLAIN NEOPRENE BEARING PADS (3/4 INCH)	(EACH)		36	36
PRESTRESSED CONCRETE MEMBERS, BOX SECTION (35' SPAN)	(EACH)		-	-
PRESTRESSED CONCRETE MEMBERS, BOX SECTION (36' SPAN)	(EACH)		-	6
PRESTRESSED CONCRETE MEMBERS, BOX SECTION (30' SPAN)	(EACH)		6	6
REINFORCING STEEL	(POUND)	17,000	5,600	22600
STRIP SEAL EXPANSION DEVICE (2")	(LIN. FT.)		216	216
SPECIAL WORK	(LUMP SUM)			1
REINFORCING STEEL (EPOXY COATED)	(POUND)		5,190	5,190
REPAIRING CONCRETE DECK	(SQ. FT.)		0	0
Class 1 Excavation (Below Plan)	(cu. Yd.)	22		22
Test Holes	(Lin. Ft.)	67		67
Crevice Concrete	(cu. Yd)	2.8		2.8
502.01 ADD Thickness Low slump wearing surface	(Lump Sum)	1		$1,020.19

DETAILED JAN. 1978
CHECKED JUNE 1978

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

Sheet No. 29 of 75 .

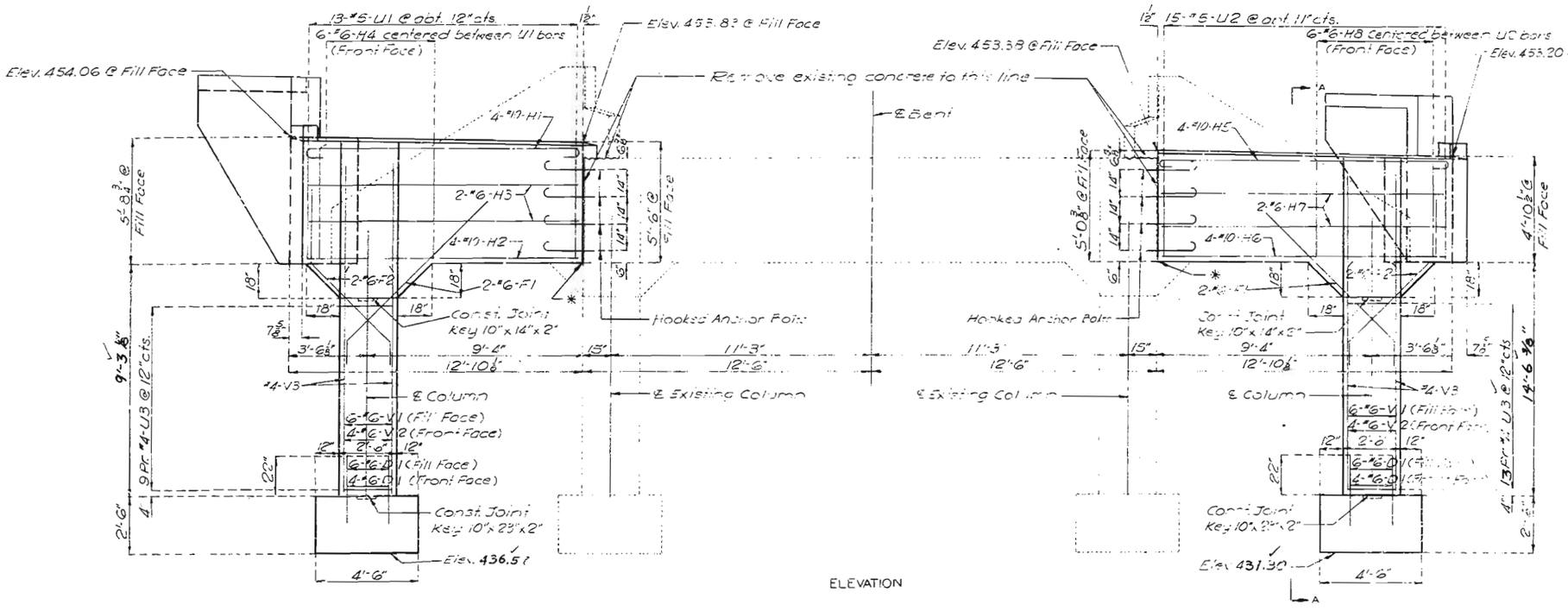
STE. GENEVIEVE COUNTY

J-134 R

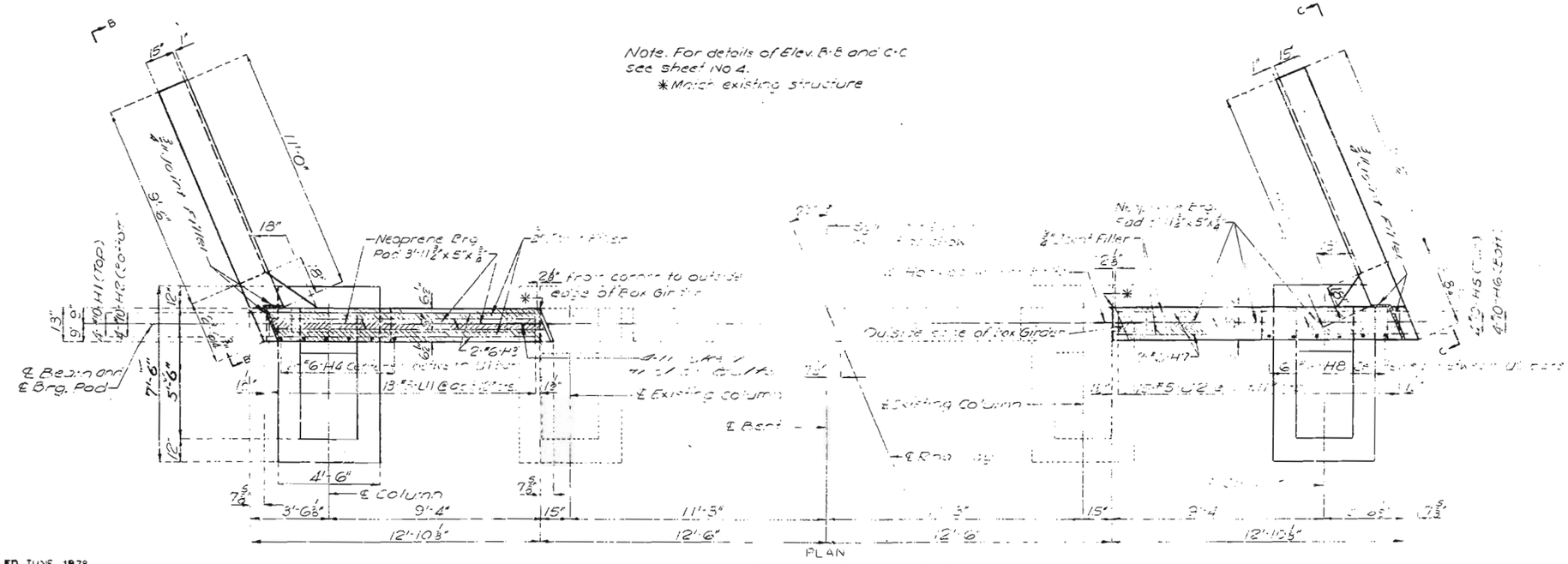
MISSOURI STATE HIGHWAY DEPARTMENT

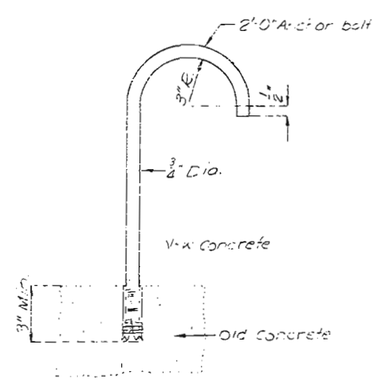
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	67	

454



Note. For details of Elev. B-B and C-C see sheet No 4.
* Match existing structure





DETAIL OF HOOK ANCHOR BOLT

DETAILED JUNE 1978
CHECKED JULY 1978

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

DETAILS OF END BENT NO. 1

Sheet No. 5A of 12 .

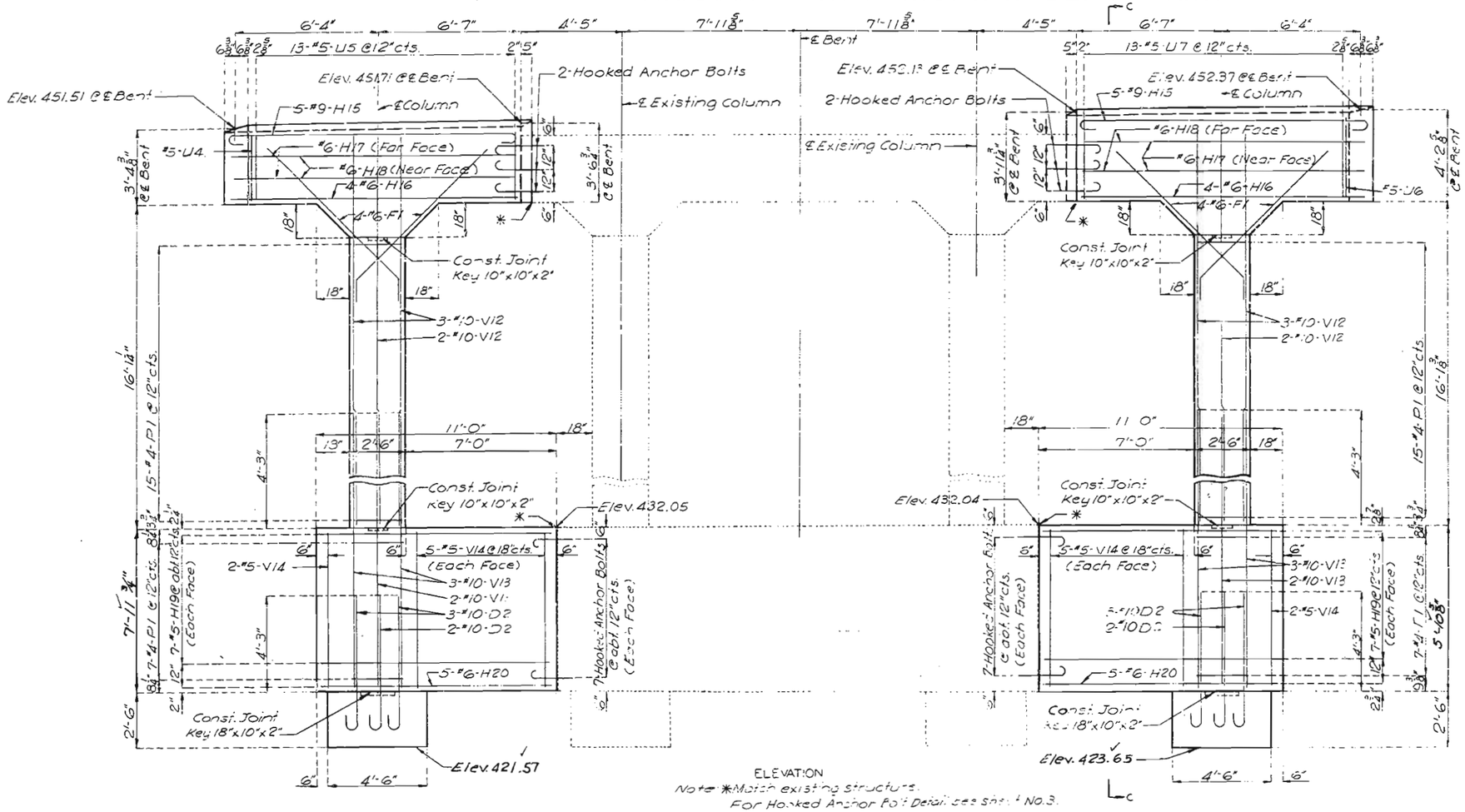
STE. GENEVIEVE COUNTY

J-154 R

MISSOURI STATE HIGHWAY DEPARTMENT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	11	

455



DETAILS OF INT. BENT NO. 2

DETAILED MAY 1978
CHECKED JULY 1978

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

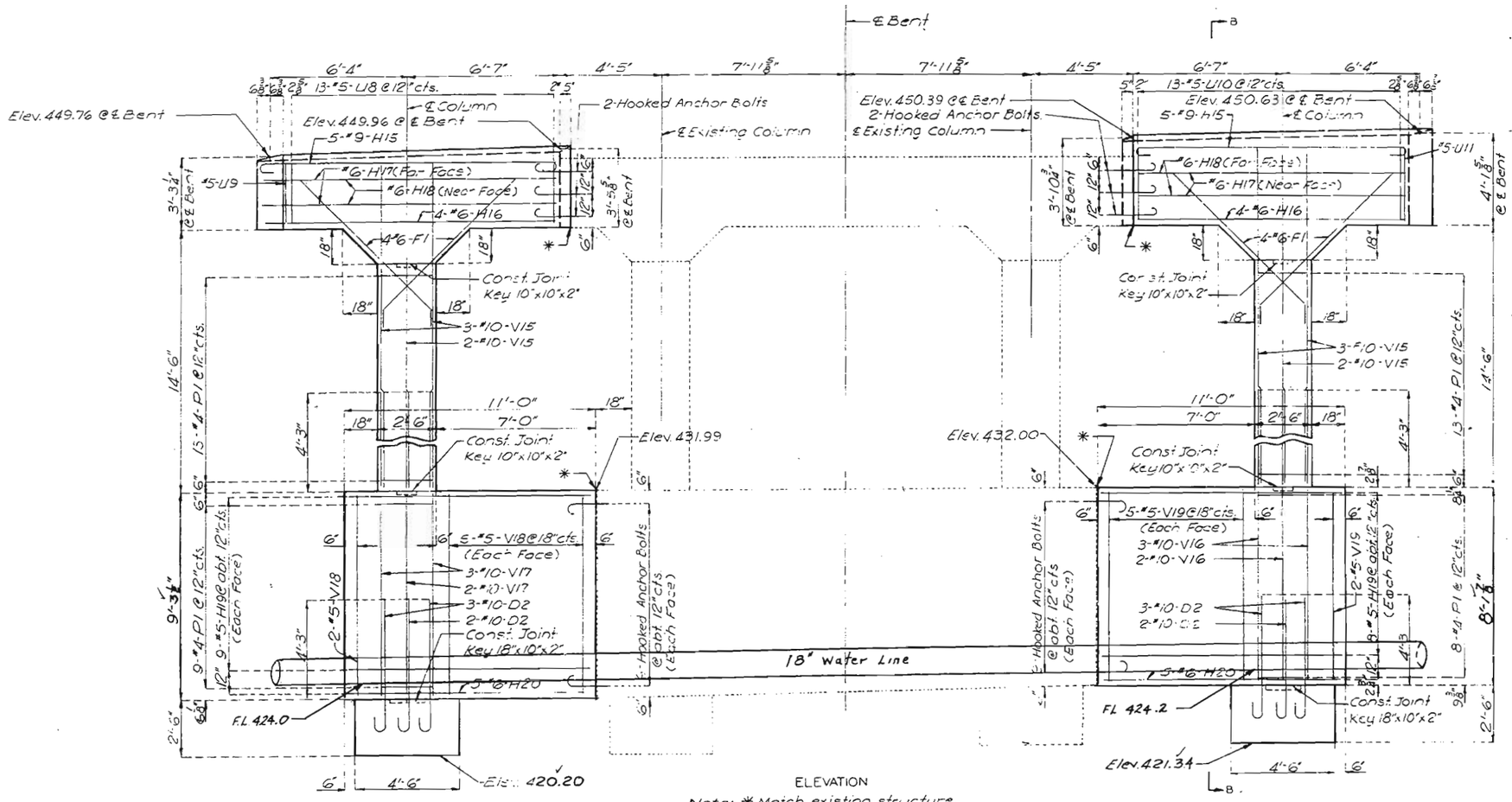
Sheet No. 5A of 13 .

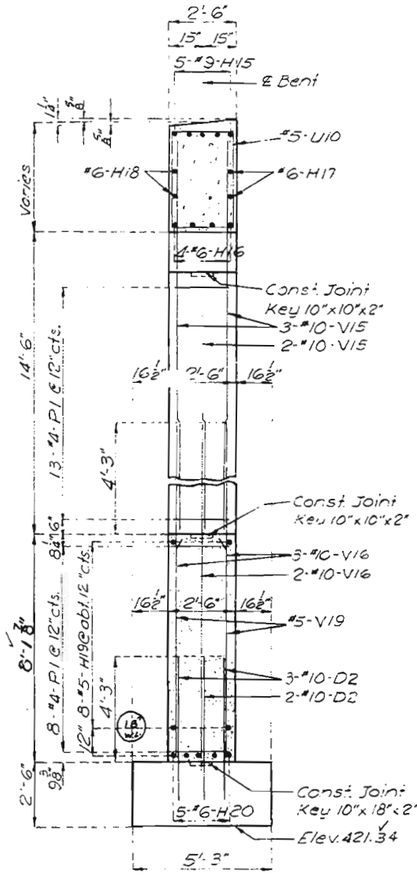
STE. GENEVIEVE **COUNTY**

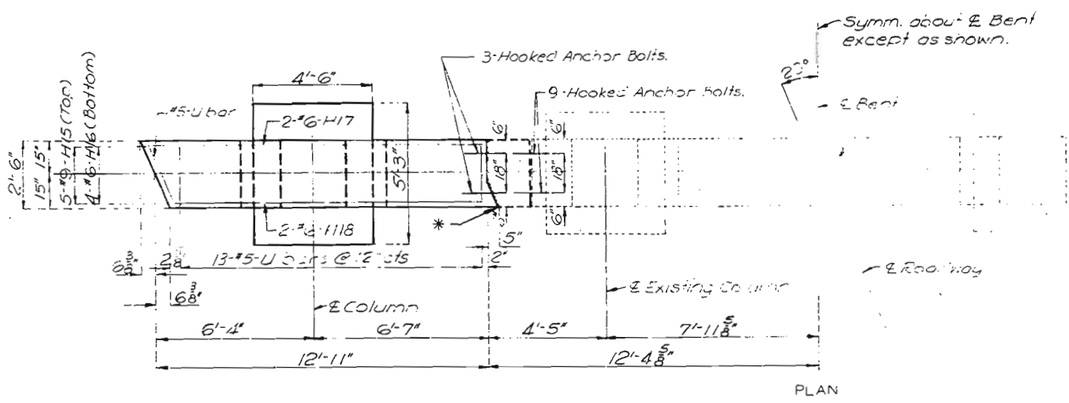
J-134R

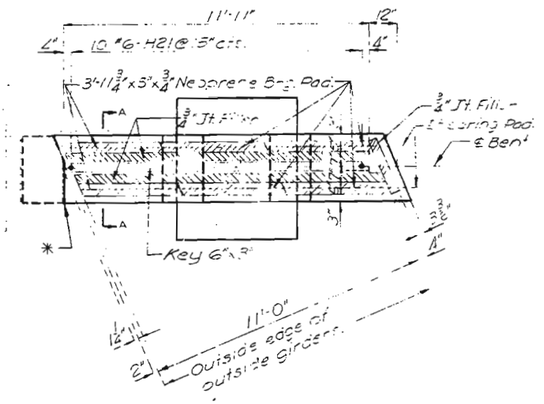
MISSOURI STATE HIGHWAY DEPARTMENT

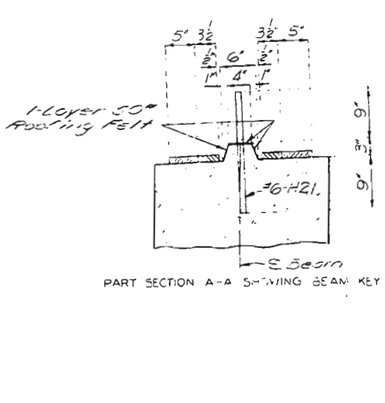
FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
3	MO.		19	12	











PART SECTION A-A SHOWING BEAM KEY

DETAILS OF INT. BENT NO. 3

DETAILED MAY 1978
CHECKED JULY 1978

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

Sheet No. 6A of 13.

STE. GENEVIEVE COUNTY

J-134 R

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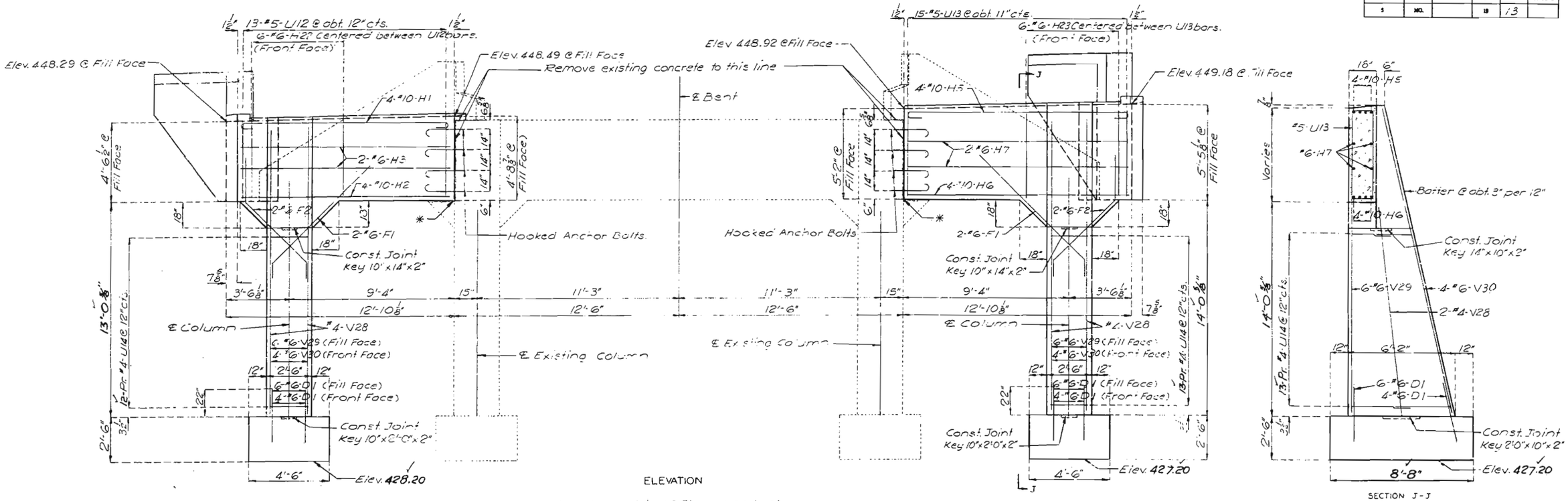
MISSOURI STATE HIGHWAY DEPARTMENT

'D. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
5	MO.		19	13	



457

DETAILED JUNE 1976
CHECKED JULY 1978

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

DETAILS OF END BENT NO. 4

Sheet No. 7A of 13.

STE. GENEVIEVE **COUNTY**

J-134R

SP-1

FINAL PLANS

DESIGN DESIGNATION

A.D.T. - 1990 = 7,600
A.D.T. - 2010 = 10,500

D.H.V. = 10 %
T = 8 %
V = 50 M.P.H.

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION PLANS FOR PROPOSED STATE HIGHWAY

FEDERAL AID PROJECT

AWARDED DEC 18 1989 Mo. Highway & Transportation Dept.

COUNTY STE. GENEVIEVE
ROUTE 61
PROJECT RS-785(5)
JOB NO. 6-P-61-888

INDEX OF SHEETS

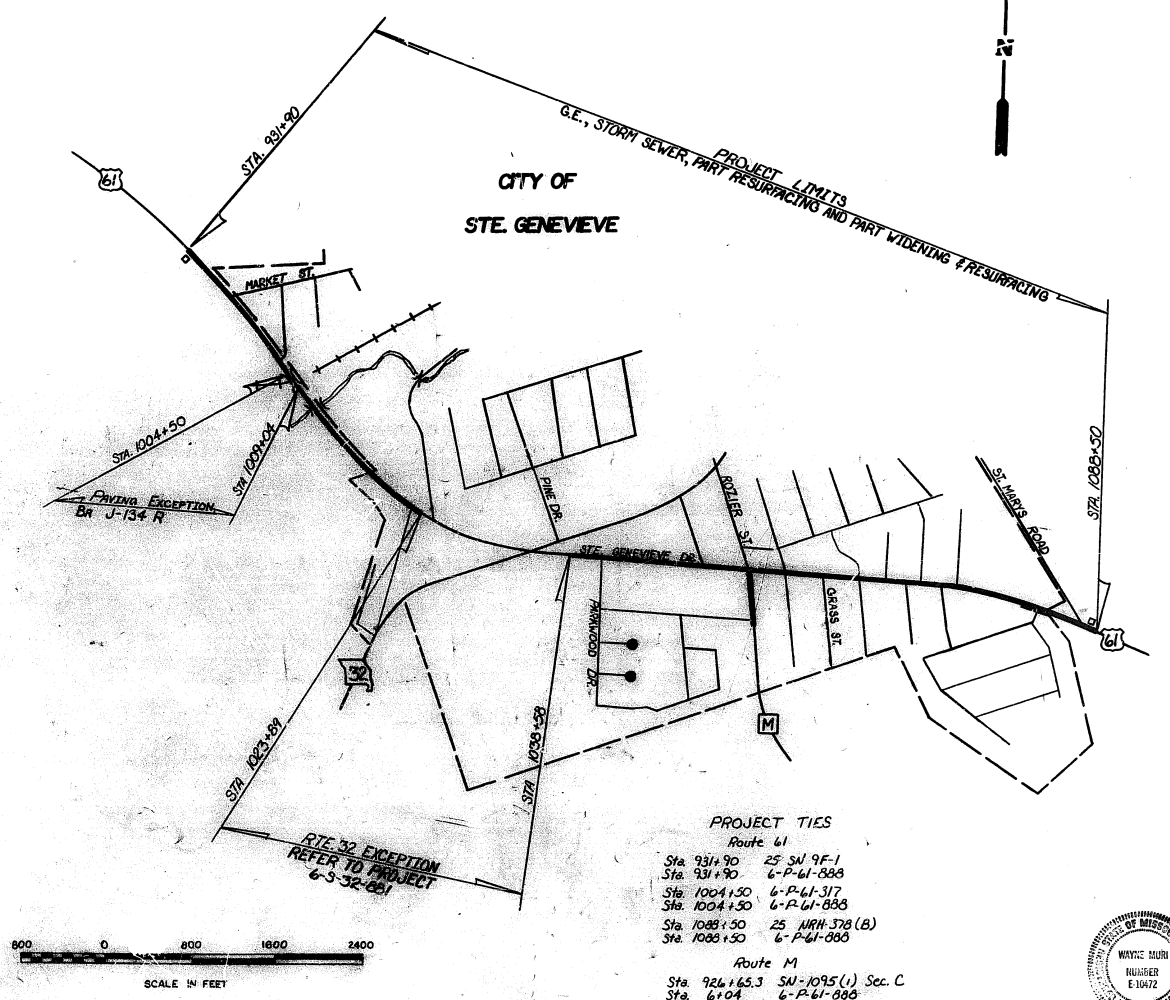
DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (3 SHEET)	2
SUMMARY (1 SHEET)	2-A
SUMMARY (4 SHEET)	2-B
PLAN-PROFILE	3-8
REFERENCE POINTS	9
SPECIAL SHEETS	10-18 *
LIGHTING	
SIGNALS	
SIGNING	
CULVERT SECTIONS	19-22
BRIDGE DRAWINGS	
STANDARD PLANS INDEX	23
CROSS SECTIONS	1-23
COMPUTER DATA	
* TRAFFIC CONTROL	17-18

NO RIGHT OF WAY ACQUIRED

CONVENTIONAL SIGNS
(USED IN PLANS)

- BUILDINGS AND STRUCTURES
- GUARD RAIL
- CONCRETE RIGHT-OF-WAY MARKER
- STEEL RIGHT-OF-WAY MARKER
- FENCE
  - CHAIN LINK
  - WOVEN WIRE
  - GATE
- UTILITIES
  - TELEPHONE
  - POWER
  - GAS
  - WATER

☐ Progress As Promised Identification Signs (2 Required)



PROJECT TIES

Route 61

Sta. 931+90	25 SN 9F-1
Sta. 931+90	6-P-61-888
Sta. 1004+50	6-P-61-317
Sta. 1004+50	6-P-61-888
Sta. 1088+50	25 NRH 378(B)
Sta. 1088+50	6-P-61-888

Route M

Sta. 926+65.3	SN-1095(1) Sec. C
Sta. 6+04	6-P-61-888

LENGTH OF PROJECT

END OF PROJECT	STA.	1088+50
BEGINNING OF PROJECT	STA.	931+90
APPARENT LENGTH		15,660.0 FEET
EQUATIONS AND EXCEPTIONS		
930+25.83 BK. = 998+38.37AHD.		-5,812.54
RTE. 32 EXCEPTION (INCLUDES +0.85 EQUA)		
1023+89 TO 1038+58		-1,469.85
1072+13.1 BK. = 1072+01.5 AHD.		+11.6
TOTAL CORRECTIONS		-7,270.79 FEET
NET LENGTH OF PROJECT		8,389.21 FEET
STATE LENGTH		1.589 MILES
FEDERAL LENGTH		1.589 MILES

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUBMITTED

Wayne Muri — 10-30-89
CHIEF ENGINEER — DATE

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

APPROVED

DIVISION ADMINISTRATOR — DATE

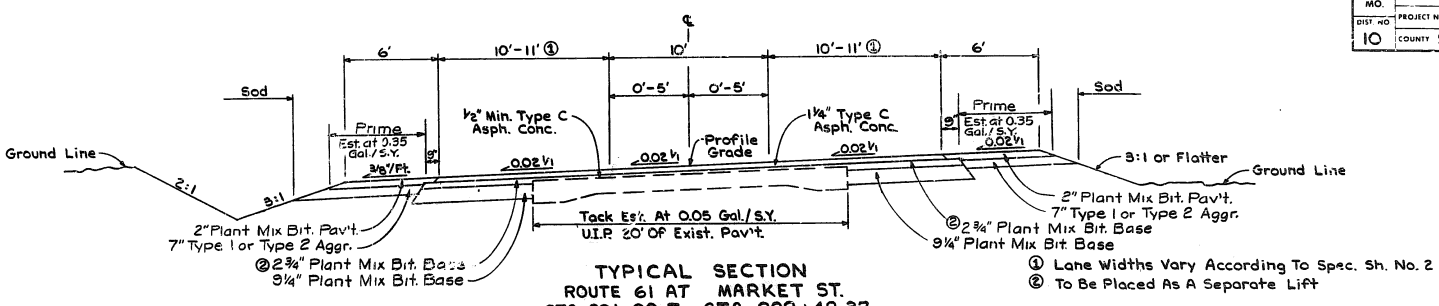
STATE OF MISSOURI WAYNE MURI NUMBER E-10472 PROFESSIONAL ENGINEER

NOTE: DASHED OR OPEN SYMBOL INDICATES EXISTING FEATURE

REV SEP 83

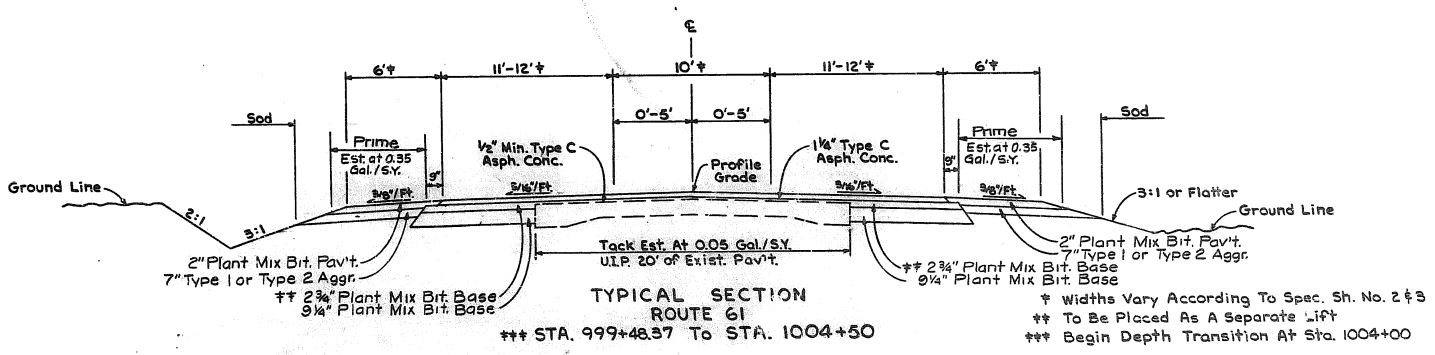
786 2

STATE MO.	JOB NO. 6-P-61-883	SHEET NO 2
DIST NO 10	PROJECT NO. RS-785(5)	ROUTE 61
	COUNTY STE. GENEVIEVE	



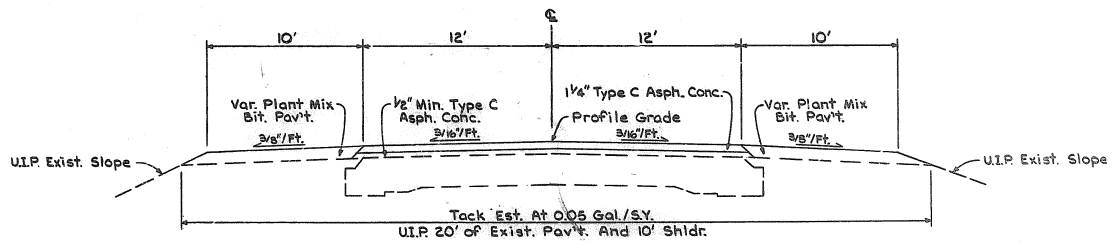
TYPICAL SECTION
ROUTE 61 AT MARKET ST.
STA. 931+90 To STA. 999+48.37

① Lane Widths Vary According To Spec. Sh. No. 2
② To Be Placed As A Separate Lift



TYPICAL SECTION
ROUTE 61
††† STA. 999+48.37 To STA. 1004+50

† Widths Vary According To Spec. Sh. No. 2 & 3
†† To Be Placed As A Separate Lift
††† Begin Depth Transition At Sta. 1004+00



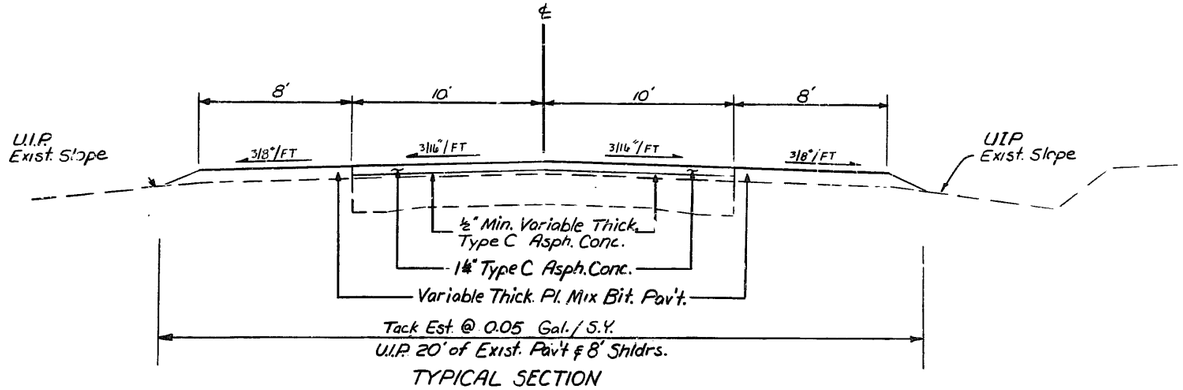
TYPICAL SECTION
ROUTE 61
STA. 1009+04 To STA. 1012+34.3

Drawing Not To Scale: Follow Dimensions

TYPICAL SECTIONS
RTE 61
SHEET 1 OF 3

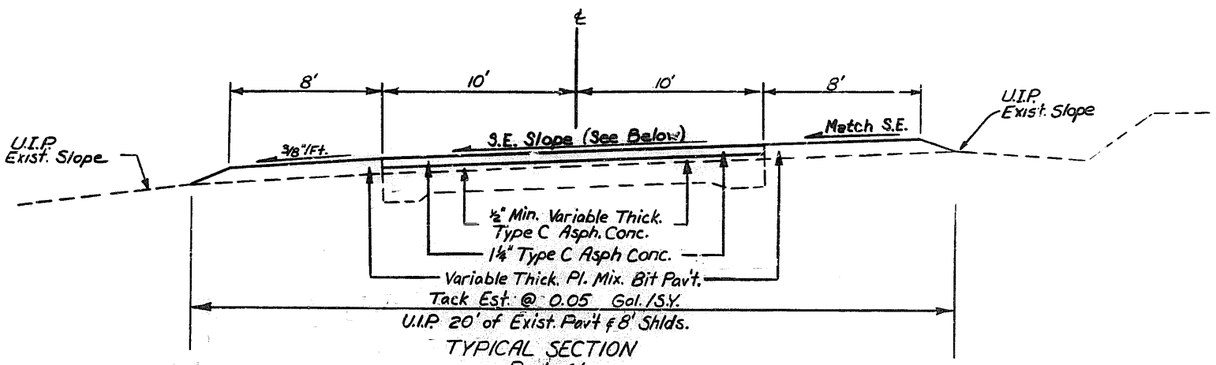
FINAL PLANS

STATE MO.	JOB NO. 6-P-61-888	SHEET NO. 2
DIST. NO. 10	PROJECT NO. RS-785(5)	ROUTE 61
	COUNTY STE. GENEVIEVE	



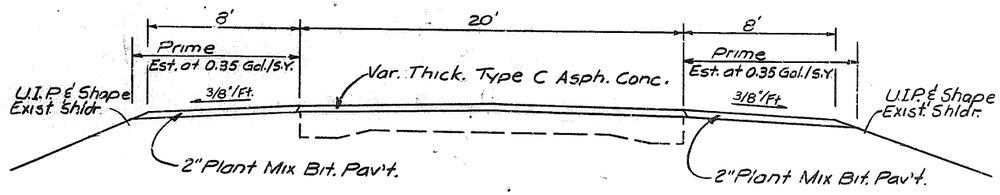
TYPICAL SECTION
Route 61

STA 1066+46 TO STA 1071+03.1
STA 1085+14.8 TO STA 1086+75.0



TYPICAL SECTION
Route 61

Sta. 1012+34.3 to Sta. 1023+89 S.E. = 0.03%
Sta. 1071+03.1 to Sta. 1085+14.8 S.E. = 0.02%



SHOULDER DETAIL AT DEPTH TRANSITION
Route 61
Sta. 1086+75 to Sta. 1088+50 Rt. Shldr.
Sta. 1087+50 to Sta. 1088+50 Lt. Shldr.

Drawing Not To Scale, Follow Dimensions.

TYPICAL SECTIONS
RTE 61
SHEET 2 OF 3

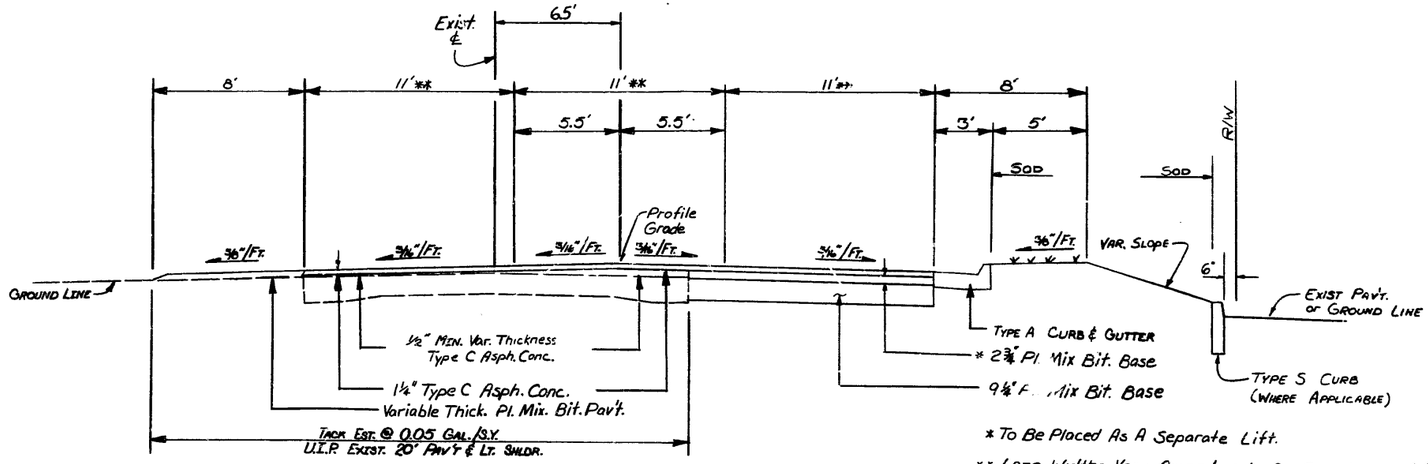
FINAL SURVEY — DATE — SURVEYED — PLOTTED — NOTE BOOK — TEMPLATE — AREAS — AREAS CHECKED — NO.

ORIGINAL SURVEY — DATE — SURVEYED — PLOTTED — NOTE BOOK — TEMPLATE — AREAS — AREAS CHECKED — NO.

4-25-88

60278

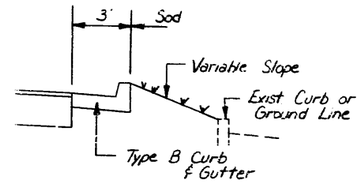
STATE MO.	JOB NO. 6-P-61-888	SHEET NO. 2
DIST NO. 10	PROJECT NO. RS-785(5)	ROUTE 61
	COUNTY STE. GENEVIEVE	



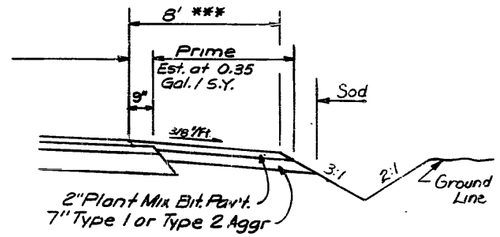
TYPICAL SECTION
ROUTE 61
STA. 1038+58 To STA. 1066+46

* To Be Placed As A Separate Lift.

** Lane Widths Vary According to Sp. Sheet nos. 4, 5 & 7

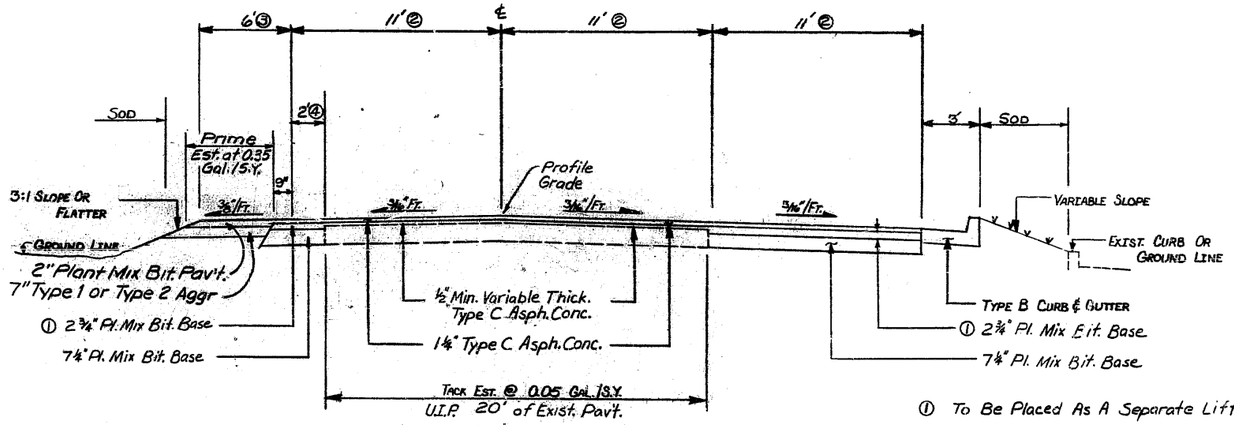


RIGHT SHOULDER - RTE 61
Sta 1053+87.7 to Sta. 1055+88.4



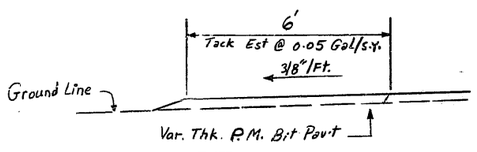
RIGHT SHLDR. & DITCH - RTE 61
Sta. 1060+78.7 to Sta. 1066+46

*** Varies 4' to 8' From Sta. 1060+78.7 to Sta. 1062+81



TYPICAL SECTION
RTE. M
STA 01+00.8 To STA. 6+04

① To Be Placed As A Separate Lift.
② Lane Widths Vary According to Sp. Sheet No. 6
③ Surfaced Shldr. Width Varies 6' to 0' Sta. 5+54 to Sta. 6+04
④ 2' (Avg. Width) Base Widening Extends from Sta 1+90 to Sta 6+04



LEFT SHOULDER - RTE M
Sta. 0+75 to Sta 1+90

Note: From Sta 0+33.4 to Sta. 1+00.8 RTE M
10" Base Extends Full Width From Curb to Curb.

DRAWINGS NOT TO SCALE, FOLLOW DIMENSIONS

TYPICAL SECTIONS
RTE 61 & RTE M
SHEET 3 OF 3

FINAL PLANS

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

STATE	JOB NO.	SHEET NO
MO	6-P-61-888	2A
DIST NO	PROJECT NO.	ROUTE
10	RS-785(5)	61
	COUNTY Ste. Genevieve	

SUMMARY OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY

ITEM	DESCRIPTION	UNIT	QUANTITY
201-20.10	REMOVAL OF IMPROVEMENTS	LUMP SUM	1
203-10.00	CLASS A EXCAVATION	CU YD	13,094
203-60.00	COMPACTING EMBANKMENT	CU YD	1,722
203-70.75	COMPACTING IN CUT	STATION	48.1
206-30.00	CLASS 3 EXCAVATION	CU YD	1,574
213-10.00	SHAPING SHOULDERS CLASS 1	MILE	.03
301-10.11	ASPHALT CEMENT (BITUMINOUS BASE) AC-20	TON	242.3
301-20.00	MINERAL AGGREGATE (BITUMINOUS BASE)	TON	3,045
304-00.73	TYPE 1 AGGREGATE FOR BASE (7 IN. THICK)	SQ YD	2,221
310-30.01	CHAT (C)	CU YD	0
390-90.00	TEMPORARY SURFACING	CU YD	228
401-10.12	ASPHALT CEMENT (BITUMINOUS PAVEMENT) AC-20	TON	668
401-20.10	MINERAL AGGREGATE (BITUMINOUS PAVEMENT) GRADE C	TON	1,386
403-10.11	ASPHALT CEMENT (ASPHALTIC CONCRETE) AC-20	TON	164.6
403-10.26	MINERAL AGGREGATE (ASPHALTIC CONCRETE) (TYPE C MIX)	TON	2,937
407-10.05	TACK COAT	GALLON	2,420
601-10.00	FIELD LABORATORIES	LUMP SUM	1
608-50.08	PAVED APPROACH, 8 IN.	SQ YD	1,404.2
609-10.10	CONCRETE CURB (6 IN. HEIGHT AND UNDER) TYPE S	LIN FT	390
609-10.41	CONCRETE GUTTER TYPE A	LIN FT	36
609-10.51	CURB AND GUTTER TYPE A	LIN FT	1,257
609-10.52	CURB AND GUTTER TYPE B	LIN FT	663
609-70.00	ROCK LINING	CU YD	2
612-90.10	INSTALLING GIVE EM A BRAKE 4 FT. X 8 FT. SIGNS (SEE SPECIAL PROVISIONS)	EACH	6
612-90.20	INSTALLING GIVE EM A BRAKE 4 FT. X 4 FT. SIGNS (SEE SPECIAL PROVISIONS)	EACH	3
614-10.10	GRATES AND BEARING PLATES	POUND	570
614-30.13	MANHOLE FRAME AND COVER, TYPE 3	EACH	10
614-30.20	CURB INLET	EACH	12
616-10.05	CONSTRUCTION SIGNS	SQ FT	750
616-10.20	CHANNELIZERS (DRUMS)	EACH	108
616-10.00	EDGE DROP-OFF TREATMENT	LIN FT	6,236
620-50.01	TYPE 1 PREFORMED MARKING TAPE 4 IN., SOLID WHITE	100 FT	2.3
620-50.03	TYPE 1 PREFORMED MARKING TAPE 4 IN., SOLID YELLOW	100 FT	111.2
620-50.04	TYPE 1 PREFORMED MARKING TAPE 4 IN., INTERMITTENT YELLOW	100 FT	12.0
620-54.04	PREFORMED SHORT TERM MARKING TAPE 4 IN., INTERMITTENT YELLOW	MILE	1.7
703-20.02	CLASS B CONCRETE (MISC)	CU YD	2.3
706-10.00	REINFORCING STEEL	POUND	190

ITEM	DESCRIPTION	UNIT	QUANTITY
725-10.15	15 IN. CORRUGATED METAL PIPE	LIN FT	76
725-10.18	18 IN. CORRUGATED METAL PIPE	LIN FT	90
726-13.12	12 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LIN FT	75
726-13.15	15 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LIN FT	1,241
726-13.18	18 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LIN FT	1,018
726-13.24	24 IN. CLASS III REINFORCED CONCRETE PIPE CULVERT	LIN FT	214
731-10.22	PRECAST CONCRETE DROP INLET 2 FT X 2 FT	FT	10
731-10.30	PRECAST CONCRETE DROP INLET 3 FT X 2 FT-6 IN.	FT	49
731-10.32	PRECAST CONCRETE DROP INLET 3 FT X 2 FT	FT	40
732-00.15	15 IN. FLARED END SECTION	EACH	2
732-00.18	18 IN. FLARED END SECTION	EACH	1
802-50.00	TYPE 2 MULCH	ACRE	.6
803-10.00	SODDING	SQ YD	4243
805-10.00	SEEDING	ACRE	.6
500.	CONTINGENT ITEMS		
501.01	TYPE 1 AGG BASE 4"	SQ YD	1853
501.02	12" CORRUGATED METAL PIPE	LIN FT	24
501.03	DENSITY SAMPLES	EACH	13

RECEIVED

ACCEPTED : January 8, 1991

PREPARED BY:

RESIDENT ENG:

DIST'R OFFICE:

MAIN OFFICE:

STE. GENEVIEVE 61 RS-785(5)

SP-2B

FINAL PLANS

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

STATE	JOB NO	SHEET NO
MO	6-P-6[illegible]388	25
DIST NO	PROJECT NO	ROUTE
10	COUNTY STE GENEVIEVE	5

SHEET 1 OF 4

ENTRANCES AND SIDE ROADS
(STATIONED ENTRANCES & SIDE ROADS SHOWN ON SPECIAL SHEETS)

Plan Sheet No	Sp. Sheet No	Sta.	Type	Loc.	Exist. or New Width	%Grade	Paved Depth 7" Ft.	Appr. 8" S.Y.	Depth "1" Ft.	P.M. Bit. Pav't. C.Y.	P.M. Bit. Base C.Y.	Tack Gal.	Remarks
3	2	933+23.5	III	Lt.	23	6	5						
		934+39.3	III	Lt.	19	7	5						
		935+49.8	III	Lt.	39	2	15.5			10.7		4	
		937+21.3	I	Lt.	15	5	9						
		938+87.3	II	Lt.	33	2	18			6.7		6	
		938+87.3	III	Rt.	–	5-11	18			23.5		21	Incl. Taper 939+00 to 939+40
4		938+69.5	III	Lt.	25	4	8			0.8		1	
		999+97	III	Rt.	22	8	20						
		1002+04.5	III	Rt.	22	8	20						
		1002+23	III	Lt.	46	3	5			0.7		2	
		1004+23	II	Lt.	30	2	5			1.0		2	
5	4	1038+17.2	III	Rt.	56.5	4	17	135.8					
		1041+83.0	II	Rt.	35	6	22	104.3					
		1043+17.1	III	Rt.	34	3	17	71.2					
		1044+43.7	III	Rt.	41	3	17	84.4					
6		1045+74.8	III	Rt.	31	4	17	65.6					
		1047+66.2	III	Rt.	31	5	17	65.6					
		1048+45.0	III	Rt.	26	4	17	56.1					
		1049+72.8	III	Rt.	60	6	17	120.3					
	5	1053+45.0	III	Rt.	58	9	17	116.8					
		1056+74.6	III	Rt.	37	3	11.5	52.8					
		1057+60.0	III	Rt.	53	6	17	104.5					
8		1059+46.2	II	Rt.	58	4	17	128.2		1.0		2	Bit. Pav't. for Surface leveling beyond paved appr.
		1060+42.4	III	Rt.	58	2	17	122.6					
	7	1062+69.75	II	Rt.	30	4	14.5			1.9	9.1		
		1063+62.0	III	Rt.	24	5	16						
		1064+37.0	I	Rt.	20	6	17.5						
		1065+14.5	II	Rt.	24	6	29.7			3.5		4	
7	6	1+04.8	III	Lt.	39	2				4.4		3	Route M
		1+76.0	III	Lt.	32	3				5.6		3	
		2+20.0	I	Lt.	24	0							
		3+03.0	I	Lt.	14	2							
		3+44.0	III	Lt.	44	2							
		4+22.0	III	Lt.	25	4							
		4+59.0	I	Lt.	20	4							
		4+75.5	I	Rt.	28	5	30.1	138.2					
		5+03.5	I	Lt.	23	5	13	37.8					
		Totals						1404.2		59.8	9.1	48	

CAST-IN-PLACE DROP INLETS

Plan Sheet No.	Sp. Sheet No.	Sta.	Loc.	Type	3'x3' Ft.	Conc. Misc. C.Y.	Steel Lb.	Cl. 3 Exc. C.Y.	Remarks
6	4	1049+30.9	34' Rt.	E	7	2.3	190	9	1-18" & 1-24" Pipe Opening, 2 Spillways (1-Std. Open. & 1-Sq. Open.) Type A Cover
		Totals				2.3	190	9	

CONCRETE CURB TYPE S

Plan Sheet No.	Sp. Sheet No.	Sta.	Loc.	Sta.	Loc.	6" Ht. & Under L.F.	Remarks
3	2	939+63	Lt.	938+39	Lt.	63.5	Equa. (-58+12.5')
6	4	1046+28	Rt.	1047+06.3	Rt.	16.0	
		1048+58	Rt.	1048+66	Rt.	14.0	
		1049+31	Rt.	1049+42	Rt.	11.0	
	5	1050+03	Rt.	1050+15	Rt.	12.0	
		1056+56	Rt.	Rte M 64+77	Rt.	37.5	Rte. M
		1056+94.5	Rt.	1057+32	Rt.	37.5	
		1058+09.5	Rt.	1059+09	Rt.	122.5	
7		1059+17.5	Rt.	1059+25.5	Rt.	8.5	
		1060+07.5	Rt.	1060+15	Rt.	7.5	
7	6	Rte M 1+19	Lt.			60.0	Rte M, Incl 2-6 Rs
				Total		390.0	
				Use		390	

PRECAST CONCRETE DROP INLETS

Plan Sheet No	Sp. Sheet No	Sta.	Loc.	Type	"D" Ft.	Manhole Frame & Cover Type 3 Each	2'x2' Ft.	3'x2' Ft.	3'x2'-6" Ft.	Grates & Bearing Plates Lb.	Cl. 3 Exc. C.Y.	Remarks
5	4	1041+47.2	27.5' Rt.	T	4'-9"	1			5		8	1-15" & 1-18" Pipe Opening
		1042+08.0	35' Rt.	E	3'-3"			3			5	1-12" Pipe Opening & Square Spillway Opening (3'x1'-3")
		1043+00	24.5' Rt.	D	2'-6"		3			190	3	1-12" Pipe Opening
		1043+95.6	35' Rt.	T	4'-0"	1			4		7	1-12" Pipe Opening
		1044+75.2	24.5' Rt.	D	3'-0"		3			190	4	1-12" Pipe Opening
6		1045+25.0	35' Rt.	E	4'-3"			4			6	1-12" Pipe Opening
		1046+30.0	35' Rt.	E	4'-9"			5			7	1-12" Pipe Opening
		1046+48.3	24.5' Rt.	D	3'-6"		4			190	3	1-12" Pipe Opening
		1047+10.0	27.5' Rt.	T	6'-0"	1			6		8	1-12", 1-18" & 1-24" Pipe Opening
		1047+10.0	35' Rt.	E	2'-6"			3			3	1-12" Pipe Opening
		1047+83.2	35' Rt.	T	3'-9"	1			6		9	2-24" Pipe Openings
		1048+52.5	35' Rt.	T	6'-3"	1			6		10	2-24" Pipe Openings
	5	1050+20.0	27.5' Rt.	T	6'-0"	1			6		5	1-12" & 2-18" Pipe Openings
		1050+20.0	35' Rt.	E	2'-9"			3			1	1-12" Pipe Opening
		1053+20.5	35' Rt.	T	3'-3"	1			3		6	1-12" Pipe Opening
		1053+92.0	28.7' Rt.	T	4'-3"	1			4		3	1-15" & 1-18" Pipe Opening
		1056+27.2	58.9' Rt.	T	3'-6"	1			4		8	1-18" Pipe Opening
		1057+32.0	35' Rt.	T	4'-6"	1			5		7	2-15" Pipe Openings
8		1059+10.0	35' Rt.	E	3'-3"			3			5	1-15" Pipe Opening & Square Spillway Opening (3'x1'-3")
7	6	1+97.0	19.5' Lt.	E	3'-6"			4			5	1-15" Pipe Opening
		2+83.0	19.5' Lt.	E	4'-9"			5			6	2-15" Pipe Openings
		3+88.0	19.5' Lt.	E	5'-0"			5			6	2-15" Pipe Openings
		4+85.0	20' Lt.	E	4'-9"			5			6	2-15" Pipe Openings
		Totals				10	10	40	49	570	131	

REINFORCED CONCRETE PIPE CULVERT CLASS III

Plan Sheet No	Sp. Sheet No	Sta.	Loc.	Sta.	Loc.	← Cl. III RCP → 12" L.F.	15" L.F.	18" L.F.	24" L.F.	Flared End Sec. 15" Each	Cl. 3 Exc. C.Y.	Remarks
5	4	1037+75.0	37.5' Rt.	1041+46.95	27.5' Rt.		57			1	101	
		1041+48.45	27.5' Rt.	1047+08.75	27.5' Rt.			56			344	Incl. 7-18"x12" Tees
		1042+08.0	27.5' Rt.		34' Rt.	7					1	
		1043+00.0	26.5' Rt.		27.5' Rt.	2						
		1043+95.6	27.5' Rt.		33.8' Rt.	7					2	
		1044+75.2	25.5' Rt.		27.5' Rt.	2						
6		1045+25.0	27.5' Rt.		34' Rt.	7					1	
		1045+30.0	27.5' Rt.		34' Rt.	7					1	
		1046+48.3	25.5' Rt.		27.5' Rt.	2						
		1047+10.0	29' Rt.		34' Rt.	5					1	
		1047+11.25	27.5' Rt.	1047+91.7	35' Rt.				71		77	
		1047+84.7	35' Rt.	1048+58	35' Rt.				74		34	
		1048+61	35' Rt.	1049+29.4	34' Rt.				69		71	
		1049+32.4	34' Rt.	1050+18.75	27.5' Rt.			87			30	
	5	1050+20.0	29' Rt.		34' Rt.	5						
		1050+21.25	27.5' Rt.	1053+20.75	28.7' Rt.			370			127	Incl. 1-13"x12" Tee
		1053+20.5	28.5' Rt.		33.8' Rt.	6						
		1053+93.25	28.7' Rt.	1057+30.5	35' Rt.		338				157	Incl. 1-15"x12" Tee
		1055+28.9	33.1' Rt.	1055+27.9	57.8' Rt.	25					12	Incl. 1-30° Bend
		1057+33.5	35' Rt.	1059+08.5	35' Rt.		175				118	
7	6	1+98.5	19.5' Lt.	2+81.5	19.5' Lt.		83				46	
		2+84.5	19.5' Lt.	3+86.5	21.5' Lt.		102				70	
		3+89.5	19.5' Lt.	4+83.5	20' Lt.		94				67	
		4+86.5	20' Lt.	5+75.0	24' Lt.		78			1	63	
		Totals				75	1241	1018	214	2	1423	

QUALITY REPRO

FINAL PLANS

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

STATE MO	JOB NO. 6-P-8-888	SHEET NO 28
DIST NO 10	PROJECT NO P.S. 78E(5)	ROU 6
	COUNTY STE. GENEVIEVE	61

SHEET 2 OF 4

REMOVAL OF IMPROVEMENTS

Plan Sheet No.	Sp. Sheet No.	Sta.	Sta	Loc	Description	Remarks
4	3	1003+51	1003+60.7	28.3' Lt	6" Conc. Ret. Wall	Approx. 10 L.F.
		1004+02		21.7' Rt.	3'x1' Hdwl. w/ Apron	
5	4	1038+13.5		29.5' Rt.	15"x83' RCP & Flared End Sections	
		1038+33	1038+43.2	22' Rt.	6" Conc. Curb to 40' Rt.	Approx. 27 L.F.
		1039+00	1039+10	22' Rt.	6" Conc. Curb to 40' Rt.	Approx. 27 L.F.
		1041+10.7		27.8' Rt.	15" CMP & 18" RCP ~ 90'	
		1041+83		10' Rt.	Conc. Street to 45' Rt	Approx. 206 S.Y. or as directed by Engineer
		1042+02	1042+30	30' Rt.	2'x 28' Conc. Gutter	Approx. 7 S.Y.
		1042+31.5		24.8' Rt.	3'x2' D.I. & 18"x 15.7' RCP	
		1043+52	1043+60.1	21' Rt.	5" Conc. Curb to 40' Rt.	Approx. 22 L.F.
		1043+90.3		24.8' Rt.	3'x 2' D.I. & 18"x 73' RCP & CMP	
		1043+94.1	1044+23.2	21' Rt.	6" Conc. Curb to 40' Rt. @ 1043+94.1 & to 38' Rt. @ 1044+23.2	Approx. 61 L.F.
		1044+64.2	1044+75	20' Rt.	6" Conc. Curb to 38' Rt.	Approx. 27 L.F.
6		1046+48	1046+59	20' Rt.	6" Conc. Curb to 33' Rt.	Approx. 22 L.F.
		1046+55.5		28' Rt.	24" x 40' CMP & 2'x 2' D.I.	
		1046+90.3	1047+50.7	20' Rt.	6" Conc. Curb to 33' Rt. @ 1046+90.3 & to 40' Rt. @ 1047+50.7	Approx. 86 L.F.
		1047+13.3		29' Rt.	24"x 86' CMP & 2'x 2' D.I.	
		1047+75		30' Rt.	24"x 76' CMP & 3'x 3' D.I.	
		1047+8.7	1048+32	20' Rt.	6" Conc. Curb to 40' Rt. Both Entrances	Approx. 78 L.F.
		1048+55.5		30' Rt.	24"x 13.5' CMP & 2'x 2' D.I.	
		1048+58		20' Rt.	6" Conc. Curb to 40' Rt.	Approx. 22 L.F.
		1048+91		32.5' Rt.	27"x 39' RCP & 3'x 3' D.I.	
		1049+32	1049+43	20' Rt.	6" Conc. Curb to 33' Rt.	Approx. 26 L.F.
		1049+33		34' Rt.	18"x 5' CMP & 2.5'x 2' D.I.	
		1049+51		32' Rt.	18"x 61' CMP	
	5	1050+03	1050+13	20' Rt.	6" Conc. Curb to 38' Rt.	Approx. 27 L.F.
		1053+12		31.5' Rt.	15"x 5.5' RCP & 3'x 3' D.I.	
		1053+18	1053+22.5	22' Rt.	6" Conc. Curb	Approx. 20 L.F.
		1053+22.5		31.6' Rt.	15"x 61' RCP & Flared End Sections	
		1053+80	1053+90	22' Rt.	6" Conc. Curb to 40' Rt.	Approx. 22 L.F.
		1055+54.7		25' Rt.	15"x 49' CMP & 2'x 2' D.I.	
		1056+06		25.6' Rt.	15"x 49' CMP & 3'x 3' D.I.	
		1056+16	1056+59	20' Rt.	6" Conc. Curb (Entire Island)	Approx. 158 L.F.
		1056+58.6		26.6' Rt.	15"x 40' CMP	
		1056+94	1057+33	20' Rt.	6" Conc. Curb (Entire Island)	Approx. 107 L.F.
		1057+86	1057+97	21' Rt.	6" Conc. Curb (Entire Island)	Approx. 53 L.F.
8		1059+15.5		30' Rt.	15"x 80' CMP	
		1059+15.5	1059+81.3	30' Rt.	6" Conc. Curb	Approx. 10 L.F.
		1060+06.4	1060+16	30' Rt.	6" Conc. Curb	Approx. 12 L.F.
		1060+16		28' Rt.	15"x 61' CMP	
	7	1060+72	1060+75	30' Rt.	6" Conc. Curb to 40' Rt.	Approx. 14 L.F.
		1062+72.5		30.5' Rt.	15"x 47' CMP	
		1063+47		29' Rt.	15"x 25' CMP	
		1064+81.7		26.5' Rt.	15"x 59' CMP	
					Route M	
7	6	1+24	1+49	19' Lt.	6" Conc. Curb (Entire Island)	Approx. 61 L.F.
		2+02.8		18.5' Lt.	12"x 33' CMP	
		2+03		16' Lt.	6" Conc. Curb to 30' Lt.	Approx. 13 L.F.
		2+32		15' Lt.	6" Conc. Curb to 30' Lt.	Approx. 14 L.F.
		2+84		18.5' Lt.	12"x 90' CMP	
		3+15		19' Lt.	6" Conc. Curb to 30' Lt.	Approx. 15 L.F.
		3+66		19' Lt.	6" Conc. Curb to 30' Lt.	Approx. 13 L.F.
		4+06		19' Lt.	12"x 26' CMP	
		4+07		18' Lt.	6" Conc. Curb to 30' Lt.	Approx. 12 L.F.
		4+40		12' Rt.	6" Conc. Curb to 30' Rt.	Approx. 24 L.F.
		4+40		18' Rt.	18"x 60' CMP	
		4+41.5		18' Lt.	15"x 32' CMP	
		4+75.5		16' Rt.	Conc. Street to Approx. 50' Rt.	Approx. 63 S.Y.
		4+85		18' Rt.	6" Conc. Curb to 30' Rt.	Approx. 23 L.F.
		4+90.8		19' Lt.	15"x 84' CMP	
		5+03.5		14' Lt.	Conc. Entrance	Approx. 58 S.Y.
		5+53		14' Lt.	Conc. Hdwll.	
					LUMP SUM	

CONCRETE GUTTER AND CURB AND GUTTER

Plan Sheet No.	Sp. Sheet No.	Sta.	Loc.	Sta	Loc	Type A Curb & Gutter L.F	Type B Curb & Gutter L.F	Type A Gutter L.F	Type I AGG. BASE & MACK S.Y.	REMARKS
5	4	1039+07.5	40' Rt.	1041+51.5	23' Rt	244.0			108.4	
		1042+00.5	40' Rt.	1042+08.0	36' Rt			10.0		
		1042+14.5	23' Rt	1043+53.1	23' Rt	138.6			61.6	
		1044+01.1	23' Rt	1044+16.2	23' Rt	15.1			6.7	
		1044+71.3	23' Rt	1046+52.5	23' Rt	181.1			80.5	
6		1046+97.3	23' Rt	1047+43.7	23' Rt	46.4			20.6	
		1047+88.7	23' Rt	1048+25.0	23' Rt	36.3			16.1	
		1048+65.0	23' Rt	1049+35.8	23' Rt	70.8			31.5	
		1049+32.4	34' Rt	1049+42.8	35' Rt			10.4		EXTEND TO INSIDE EDGE OF D.I.
	5	1050+09.8	23' Rt	1053+16.0	23' Rt	305.2			135.6	
		1053+51.7	24' Rt	1055+23.7	33' Rt		136.4		60.6	15:1 TAPER
		1055+23.7	33' Rt	1055+45.1	22' Rt		77.7		34.5	60' R
		1055+45.1	16.7' Lt.	1056+25.5	32.8' Rt	50.2			22.3	60' R
		1057+02.3	26.8' Rt	1057+25.8	25.3' Rt	23.5			10.4	15:1 TAPER
		1057+93.5	23' Rt.	1059+03.2	23' Rt.	109.7			48.7	
		1059+10.0	36' Rt.		39' Rt.			4.0		EXTEND TO INSIDE EDGE OF D.I.
	8	1059+89.2	23' Rt.	1060+06.7	22.8' Rt.	17.5			7.8	
		1060+71.4	35' Rt.	1060+79.1	33' Rt.			8.0		
	7	6	0+77.6	16.7' Lt	0+81.6	26.7' Lt.	15.9			7.1	RTE M 10' R
			0+87.6	26.7' Lt	0+87.6	29.5' Lt.	2.8			1.2	RTE M
			0+81.4	22' Rt.	4+07	22' Rt.		325.4		144.7	RTE M
			4+07	22' Rt.	4+33.6	20.7' Rt.		26.6		11.8	RTE M 200' TAPER
			5+11	17.2' Rt.	5+91.5	13.6' Rt.		80.6		35.8	RTE M 200' TAPER
			5+91.5	13.6' Rt.	—	—		15.7		7.0	RTE M 30' R
			6+08	—	6+11.5	—			4.0		RTE M
			Totals				1257.1	662.6	36.4	852.9	
						Use	1257	663	36	853	

CORRUGATED METAL PIPE

Plan Sheet No.	Sp. Sheet No.	Sta.	Loc.	12" L.F	15" L.F	18" L.F	Flared End Sec. 18" Each	ROCK LINING C.Y.	CL 2 EXC. C.Y.	REMARKS
4	3	1001+66.3	Lt.		10'				2'	1-45° Bend INCL.
		1002+75	Lt.		10'				3'	1-45° Bend INCL.
		1003+48.6	Lt.		14'				3'	1-30° Bend INCL.
		1004+02	Rt.			18'	1'	2'	3'	
	6	4+59	Rt. Lt.	24'						
8	7	1062+54	Rt.		42'					
		1063+43	Rt.			38'				
		1064+20	Rt.			34'				
		Totals		24'	76'	90'	1'	2'	11'	

EDGE DROP-OFF TREATMENT

Plan Sheet No.	Sp. Sheet No.	Sta.	Sta.	Loc.	Length L.F
3	2	932+00	940+25	Lt	825
4		998+38	1004+50	Lt	612
3		932+00	940+25	Rt	825
		998+38	1004+50	Rt.	612
5, 6, 8	4, 5, 7	1038+58	1064+46	Rt	2788
			Route M		
7	6	0+31	6+04	Rt	573
		Total			6235

PREFORMED SHORT-TERM MARKING TAPE

Sta	Sta	4" Yellow Intermittent Mile	Remarks
931+00	940+25.83	0.18	℄ Rte. 61
998+38.37	1005+00	0.13	℄ Rte. 61
1007+29	1023+89	0.31	℄ Rte. 61
1038+58	1063+50	0.95	℄ Rte. 61
0+00	6+79	0.13	℄ Rte. M
Total		1.70	
Use		1.7	

SP-28

FINAL PLANS

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

SHEET 3 OF 4

STATE MO	JOB NO	B-P-61-838	SHEET NO 28
DIST NO 10	PROJECT NO	RS-765(5)	ROUTE 61
	COUNTY	STE GENEVIEVE	

SURVEY: SURVEYED / PLOTTED / NOTE BOOK / NO. — TEMPLATE: AREAS / AREAS CHECKED

TYPE 1 PREFORMED MARKING TAPE

Plan Sheet No	Sp Sheet No	Sta	Sta	Length Ft	4" Yellow Solid L.F	4" Yellow Intermittent L.F	4" White Solid L.F	Remarks
3	?	931+00	931+03	103	206			Solid Double Yellow
		932+30	934+90	287	1148			2- Double Solid Yellow
4	3	1001+00	1003+82	282	1128			2- Double Solid Yellow
		1003+82	1004+00	18	36			Double Solid Yellow
		1004+00	1005+00	100	100	30		Solid Yellow NBL. Intermittent Yellow SBL
		1007+31	1008+12	28.1		78		Intermittent Yellow SBL
		1010+12	1023+30	1318	1318	330		Single Solid Yellow, Intermittent Yellow NBL.
5&6	4	1023+00	1023+89	59	118			Double Solid Yellow
8	5&7	1038+56	1052+33	1378	2256	700		2-Single Solid Yellow 2-Intermittent Yellow NBL
		1059+95	1066+03	608	2432			2- Double Solid Yellow
		1066+28	1066+46	43	86			Double Solid Yellow
		1066+46	1068+46	200	200	50		Single Solid Yellow NBL Intermittent yellow SBL.
7	6	0+38	2+66	228			228	Single Solid White
		1+63	2+76	113	226			Double Solid Yellow
		2+76	5+93	317	1268			2 Double Solid Yellow
		5+93	6+04	11	22			Double Solid Yellow
		6+04	6+81	77	77	20		Single Solid Yellow Intermittent yellow SBL.
		Total			11121	1200	228	
		use/		ft	111.2	12.0	2.3	

SODDING (All Disturbed Areas Except Market St.)

Plan Sheet No	Sp Sheet No	Station	Station	Loc.	S.Y.	Remarks
5	4	1038+92	1041+66	Rt.	348	
		1042+00	1043+60	Rt	284	
		1043+94	1044+23	Rt.	48	
5&6		1044+64	1046+59	Rt.	359	
6		1046+90	1047+51	Rt.	121	
		1047+92	1048+32	Rt.	83	
		1048+58	1049+43	Rt.	207	
	5	1050+03	1053+22	Rt.	602	
		1053+80	1055+00	Rt.	120	
		1057+00	Island	Rt.	41	
		1058+00	Island	Rt.	195	
8		1060+00	Island	Rt.	51	
	5&7	1060+72	1062+59	Rt.	208	
	7	1062+95	1063+45	Rt.	78	
		1063+75	1064+23	Rt.	85	
		1064+57	1066+00	Rt.	226	
		1066+50	Island	Rt.	55	
7	6	0+00	0+80	Rt.	142	
		0+50	Island	Lt.	82	
		0+80	1+00	Rt.	18	
		1+00	Island	Lt.	22	
		1+00	2+00	Rt.	58	
		1+50	Island	Lt.	9	
		2+00	4+40	Rt.	120	
		2+27	2+90	Lt.	77	
		3+00	Island	Lt.	17	
		4+00	Island	Lt.	36	
		4+40	Island	Lt.	16	
		4+50	Island	Rt.	20	
		4+90	Island	Rt.	11	
		4+90	6+28	Rt.	138	
		5+00	Island	Lt.	26	
		5+30	5+75	Lt.	110	
		5+75	6+00	Lt.	36	
				Total	4243	

SEED AND MULCH Type 3

Sheet	Seed Acres	Mulch Acres	Remarks
3	0.28	0.28	Market st U.c. N.Y.
4	0.32	0.32	Market st U.c. N.Y.
Totals	0.60	0.60	
use	0.6	0.6	

FINAL PLANS

STATE MO.	JOB NO. 6-P-91-888	SHEET NO 2B
DIST. NO. 10	PROJECT NO. FS-755(5)	ROUTE 61
	COUNTY STE. GENEVIEVE	

SHEET 4 OF 4

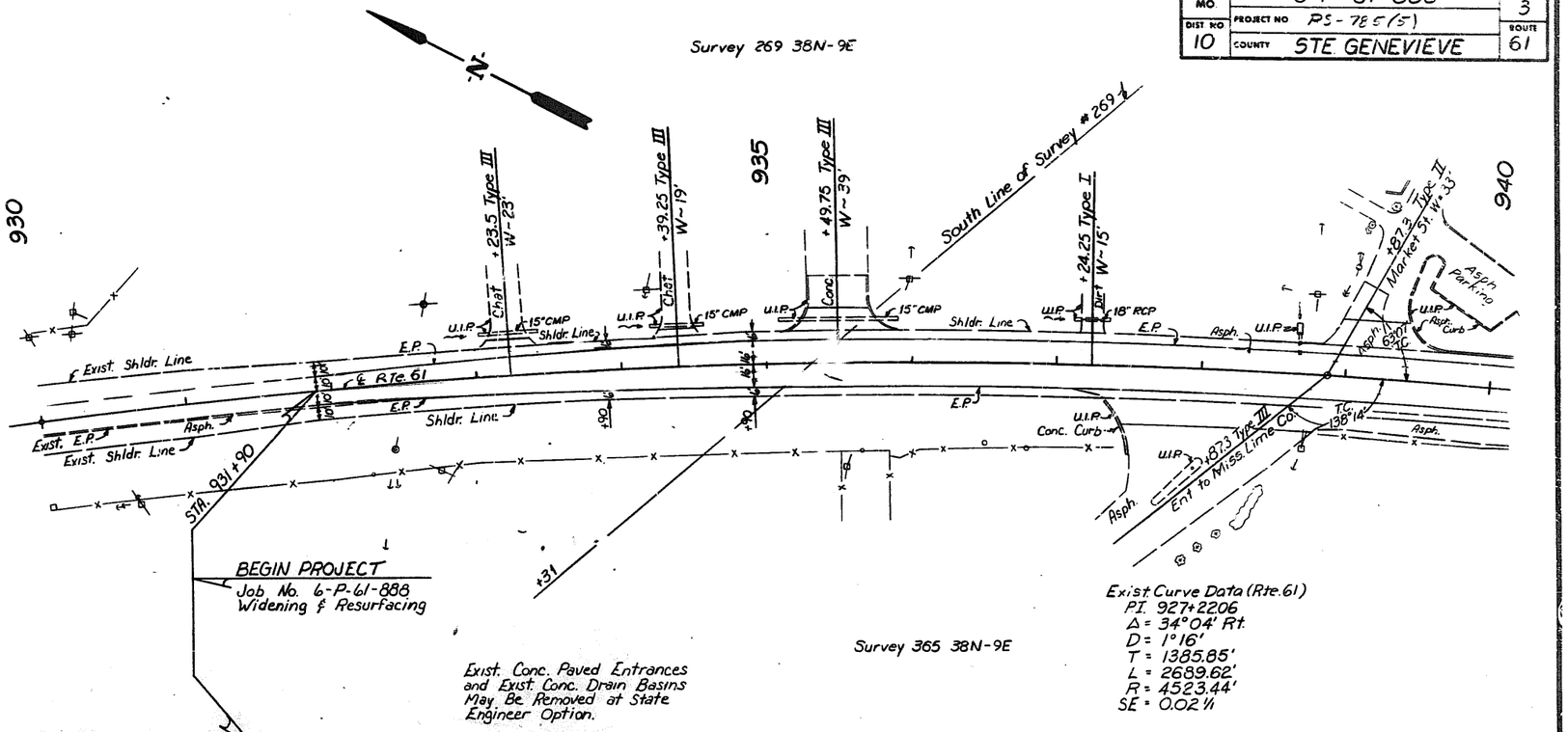
SUMMARY OF QUANTITIES

SIGN	SIZE (INS)	AREA (SQ FT)	QTY	TOTAL AREA (SQ FT)	QTY. RELOC.	TOTAL RELOC. AREA (SQ FT)	DESCRIPTION
WARNING SIGNS							
W01-1Lb	48x48	16.0					TURN (SYMBOL LEFT ARROW)
W01-1Rb	48x48	16.0					TURN (SYMBOL RIGHT ARROW)
W01-2Lb	48x48	16.0					CURVE (SYMBOL LEFT ARROW)
W01-2Rb	48x48	16.0					CURVE (SYMBOL RIGHT ARROW)
W01-3Lb	48x48	16.0					REVERSE TURN (SYMBOL LEFT ARROW)
W01-3Rb	48x48	16.0					REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4Lb	48x48	16.0					REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4L2	48x48	16.0					DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS)
W01-4Rb	48x48	16.0					REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4Rb2	48x48	16.0					DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS)
W01-6	48x24	8.0					HORIZONTAL ARROW (SYMBOL)
W01-6a	72x36	18.0					HORIZONTAL ARROW (SYMBOL)
W01-7	48x24	8.0					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	72x36	18.0					DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-8	18x24	3.0					CHEVRON (SYMBOL)
W03-1b	48x48	16.0					STOP AHEAD
W03-2b	48x48	16.0					YIELD AHEAD
W03-3b	48x48	16.0					SIGNAL AHEAD (SYMBOL)
W03-4b	48x48	16.0					BE PREPARED TO STOP
W04-1Lb	48x48	16.0					MERGE (SYMBOL FROM LEFT)
W04-1Rb	48x48	16.0					MERGE (SYMBOL FROM RIGHT)
W05-1a	48x48	16.0					ROAD NARROWS
W05-3a	48x48	16.0					ONE LANE BRIDGE
W06-1b	48x48	16.0					DIVIDED HIGHWAY
W06-2b	48x48	16.0					DIVIDED HIGHWAY ENDS
W06-3b	48x48	16.0					TWO WAY TRAFFIC (SYMBOL)
W06-3x	24x18	3.0					TWO WAY TRAFFIC (PLAQUE)
W08-1b	48x48	16.0					BUMP
W08-2b	48x48	16.0					DIP
W08-3	48x48	16.0					PAVEMENT ENDS
W08-4b	48x48	16.0					SOFT SHOULDER
W08-5b	48x48	16.0					SLIPPERY WHEN WET (SYMBOL)
W08-6b	48x48	16.0					TRUCK CROSSING
W08-6c	48x48	16.0					TRUCK ENT. (Includes 1000 FT./1500 FT. plate W025-1a)
W08-7a	36x36	9.0					LOOSE GRAVEL
W08-9	48x48	16.0	5	80			LOW SHOULDER
W08-9La	48x48	16.0					UNEVEN PAVEMENT (SYMBOL FOR LEFT DROPOFF)
W08-9Ra	48x48	16.0					UNEVEN PAVEMENT (SYMBOL FOR RIGHT DROPOFF)
W09-1R	48x48	16.0					RIGHT LANE ENDS (Includes LEFT/CENTER plate WO25-3c)
W09-2Ra	48x48	16.0					LANE ENDS MERGE RIGHT (Includes LEFT plate WO25-3b)
W10-1a	42 Dia.	9.6					RAILROAD CROSSING
W012-1	24x24	4.0					DOUBLE DOWN ARROW (SYMBOL)
W012-2a	48x48	16.0					LOW CLEARANCE (SYMBOL)
W012-2x	24x18	3.0					LOW CLEARANCE (PLAQUE)
W012-3a,b	144x24	24.0					OVERHEAD LOW CLEARANCE (FEET AND INCHES)
W013-1a	24x24	4.0					ADVISORY SPEED (PLAQUE)
WO20-1	48x48	16.0	20	320			ROAD CONST. AHEAD (Incl. RAMP/BRIDGE plate WO25-6)
WO20-2	48x48	16.0					DETOUR AHEAD (Includes 500 FT./1000 FT. plate WO25-1b)
WO20-3	48x48	16.0					RD. CLOSED AHEAD (Incl. 500 FT./1000 FT. plate WO25-1c)
WO20-4a	48x48	16.0	5	80			ONE LN. RD. AHD (Incl. 1000 FT./1500 FT. plate WO25-1a)
WO20-5	48x48	16.0					RT. LN. CLOSED AHEAD (Incl. LEFT/CENTER plate WO25-3d)
WO20-6a	48x48	16.0					RIGHT LANE CLOSED (Incl. LEFT/CENTER plate WO25-3c)
WO20-7a	48x48	16.0	5	80			FLAGMAN AHEAD (Incl. 500 FT./1000 FT. plate WO25-1b)
WO20-8	36x18	4.5					WORKERS AHEAD
WO20-9c	48x48	16.0	5	80			OPEN TRENCH
WO21-2b	48x48	16.0					FRESH OIL
WO21-5b	48x48	16.0	2	32			SHOULDER WORK AHEAD
WO21-7	36x36	9.0					SAND BLASTING
WO22-1	48x48	16.0					BLASTING ZONE 1000 FT.
WO22-2	42x36	10.5					TURN OFF 2-WAY RADIO
WO22-3	42x36	10.5					END BLASTING ZONE
WO25-1a	26x9						1000 FT./1500 FT. Plate
WO25-1b	38x9						500 FT./1000 FT. Plate
WO25-1c	34x9						500 FT./1000 FT. Plate
WO25-3b	30x9						LEFT Plate
WO25-3c	33x9						LEFT/CENTER Plate
WO25-3d	22x9						LEFT/CENTER Plate
WO25-5	30x12	2.5					1/2 MILE/1 MILE (PLAQUE)
WO25-6	28x9						RAMP/BRIDGE Plate
REGULATORY SIGNS							
R1-1b	48x48	13.25					STOP
R1-2a	48x48x48	6.93					YIELD
R1-3	20x9	1.25					4-WAY (PLAQUE)
R1-5	20x9	1.25					3-WAY (PLAQUE)
R2-1b	36x48	12.0	5	60			SPEED LIMIT XX @ 25 M.P.H.
R2-5	36x48	12.0	2	24			REDUCED SPEED AHEAD
R3-1b	36x48	12.0					NO RIGHT TURN
R3-2b	36x48	12.0					NO LEFT TURN
R3-3a	36x36	9.0					NO TURNS
R3-4b	36x48	12.0					NO U-TURN
R3-7L	30x30	6.25					LEFT LANE MUST TURN LEFT
R3-7R	30x30	6.25					RIGHT LANE MUST TURN RIGHT
R4-1b	36x48	12.0					DO NOT PASS
R4-2b	36x48	12.0					PASS WITH CARE
R4-7Lb	36x48	12.0					KEEP LEFT (HORIZONTAL ARROW)
R4-7Rb	36x48	12.0					KEEP RIGHT (HORIZONTAL ARROW)
R4-17L	36x36	9.0					KEEP LEFT
R4-17R	36x36	9.0					KEEP RIGHT
R5-1	30x30	6.25					DO NOT ENTER
R5-1a	36x24	6.0					WRONG WAY
R6-1La	48x18	6.0					ONE WAY ARROW (LEFT)
R6-1Ra	48x18	6.0					ONE WAY ARROW (RIGHT)
R6-2La	24x30	5.0					ONE WAY (LEFT)
R6-2Ra	24x30	5.0					ONE WAY (RIGHT)
R11-2	48x30	10.0					ROAD CLOSED
R11-3	60x30	12.5					ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60x30	12.5					ROAD CLOSED TO THRU TRAFFIC
R12-3b	36x36	9.0					TO ONCOMING TRAFFIC (PLAQUE)
R20-1	36x18	4.5					WHEN FLASHING
GUIDE SIGNS							
GO20-1	60x36	15.0					ROAD CONSTRUCTION NEXT XX MILES
GO20-2	60x24	10.0					END CONSTRUCTION
MO4-8a	30x15	3.13					DETOUR (PLAQUE)
MO4-9L	48x36	12.0					DETOUR (LEFT ARROW)
MO4-9R	48x36	12.0					DETOUR (RIGHT ARROW)
MO4-10L	48x18	6.0					DETOUR (ARROW LEFT)
MO4-10R	48x18	6.0					DETOUR (ARROW RIGHT)
MO4-11	24x18	3.0					DETOUR ENDS
M5-1L	21x15	2.19					ADVANCE LEFT TURN ARROW
M5-1R	21x15	2.19					ADVANCE RIGHT TURN ARROW
MISCELLANEOUS SIGNS							

FINAL PLANS

STATE	JOB NO	6-P-61-888	SHEET NO
MO.			3
DIST. NO	PROJECT NO	PS-785(5)	ROUTE
10	COUNTY	STE GENEVIEVE	61

~UTILITIES~
-POWER-
Citizen Electric
Ste. Genevieve, Mo.
-GAS-
Missouri Natural Gas
Farmington, Mo.
-TELEPHONE-
Southwestern Bell
Festus, Mo.
-WATER-
City of Ste. Genevieve
Ste. Genevieve, Mo.
-WATER-
Ste. Genevieve County
Public Water Supply
District No. 1
Ste. Genevieve, Mo.
-VIDEO-
Falcon Cable & T.V.
Ste. Genevieve, Mo.

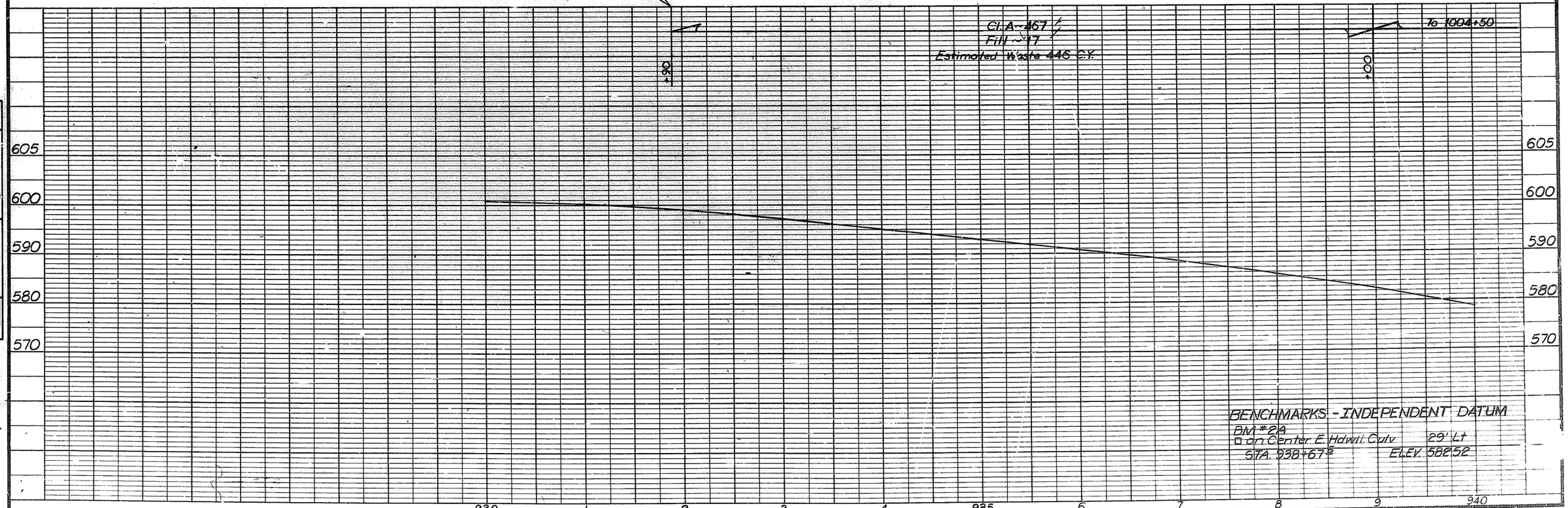


NOTES:
No Direct Payment Will Be Allowed For Clearing And Grubbing On This Project.

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

Exist. Conc. Paved Entrances and Exist. Conc. Drain Basins May Be Removed at State Engineer Option.

Exist. Curve Data (Rte. 61)
P.I. 927+2206
Δ = 34°04' Rt.
D = 1°16'
T = 1385.85'
L = 2689.62'
R = 4523.44'
SE = 0.02 1/1



BENCHMARKS - INDEPENDENT DATUM
BM #2A
□ on Center E. Hdwll. Culv 29' Lt
STA. 938+67.5 ELEV. 582.52

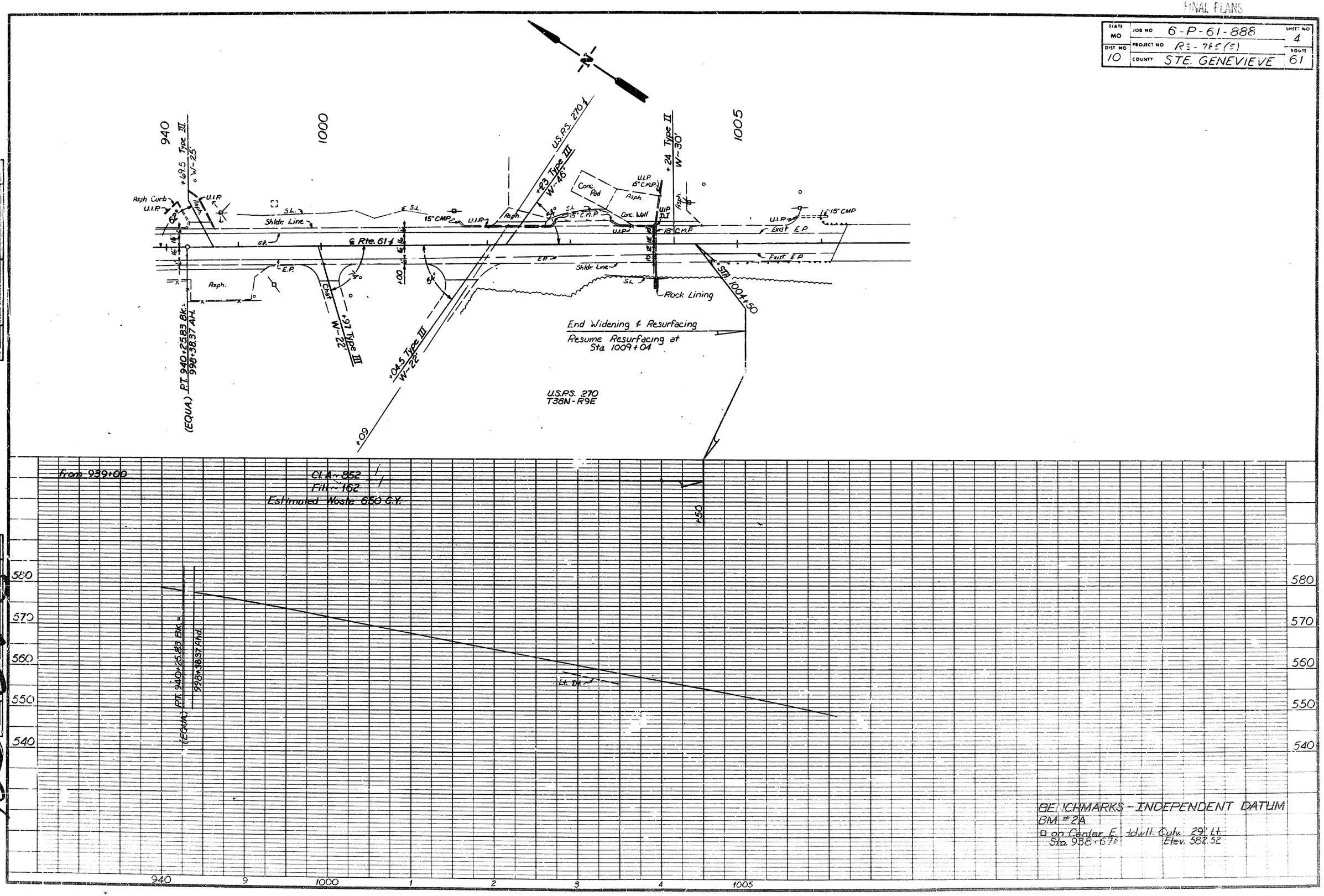
FINAL SURVEY | NOTE BOOK NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

FINAL SURVEY | NOTE BOOK NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

488 275

FINAL PLANS

STATE	JOB NO	SHEET NO
MO	6-P-61-888	4
DIST NO	PROJECT NO	ROUTE
10	RS-785(5)	61
	COUNTY STE. GENEVIEVE	



FINAL SURVEY | NOTE BOOK | NO | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

FINAL SURVEY | NOTE BOOK | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

STATE MO.	JOB NO 6-P-61-888	SHEET NO 5
DIST NO 10	PROJECT NO RS-785(5)	ROUTE 61
	COUNTY STE. GENEVIEVE	

USPS 3253
T38N R9E

UTILITIES:

POWER ~
Citizen Electric
Ste. Genevieve, Mo.

GAS ~
Missouri Natural Gas
Farmington, Mo.

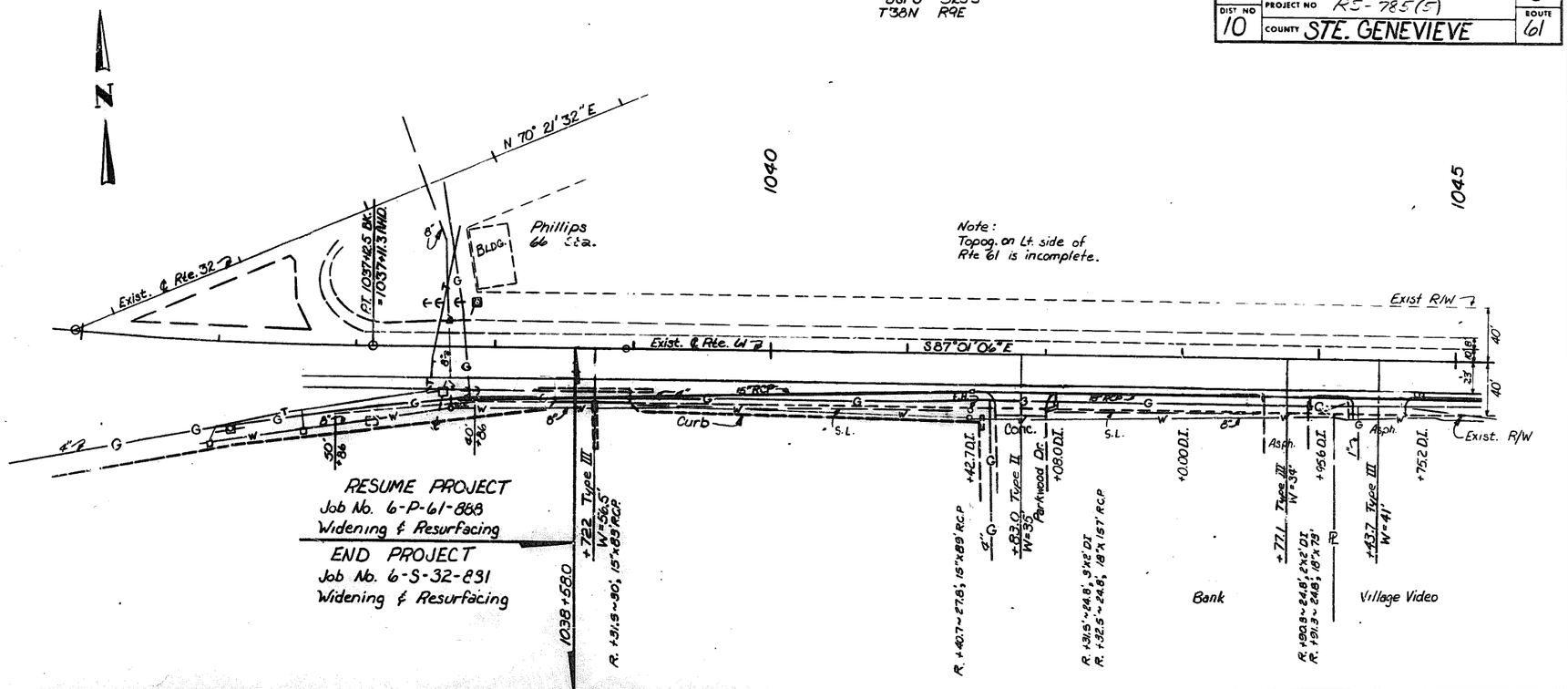
TELEPHONE ~
Southwestern Bell
Festus, Mo.

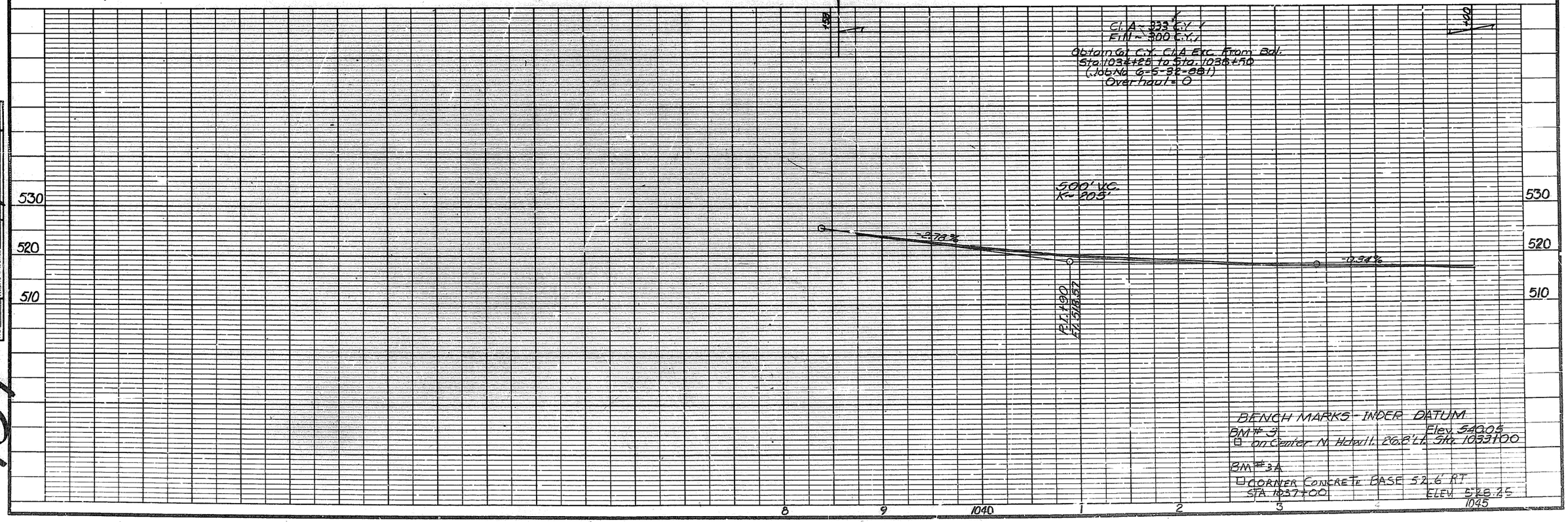
WATER ~
City of Ste. Genevieve
Ste. Genevieve, Mo.

VIDEO ~
Falcon Cable & T.V.
Ste. Genevieve, Mo.

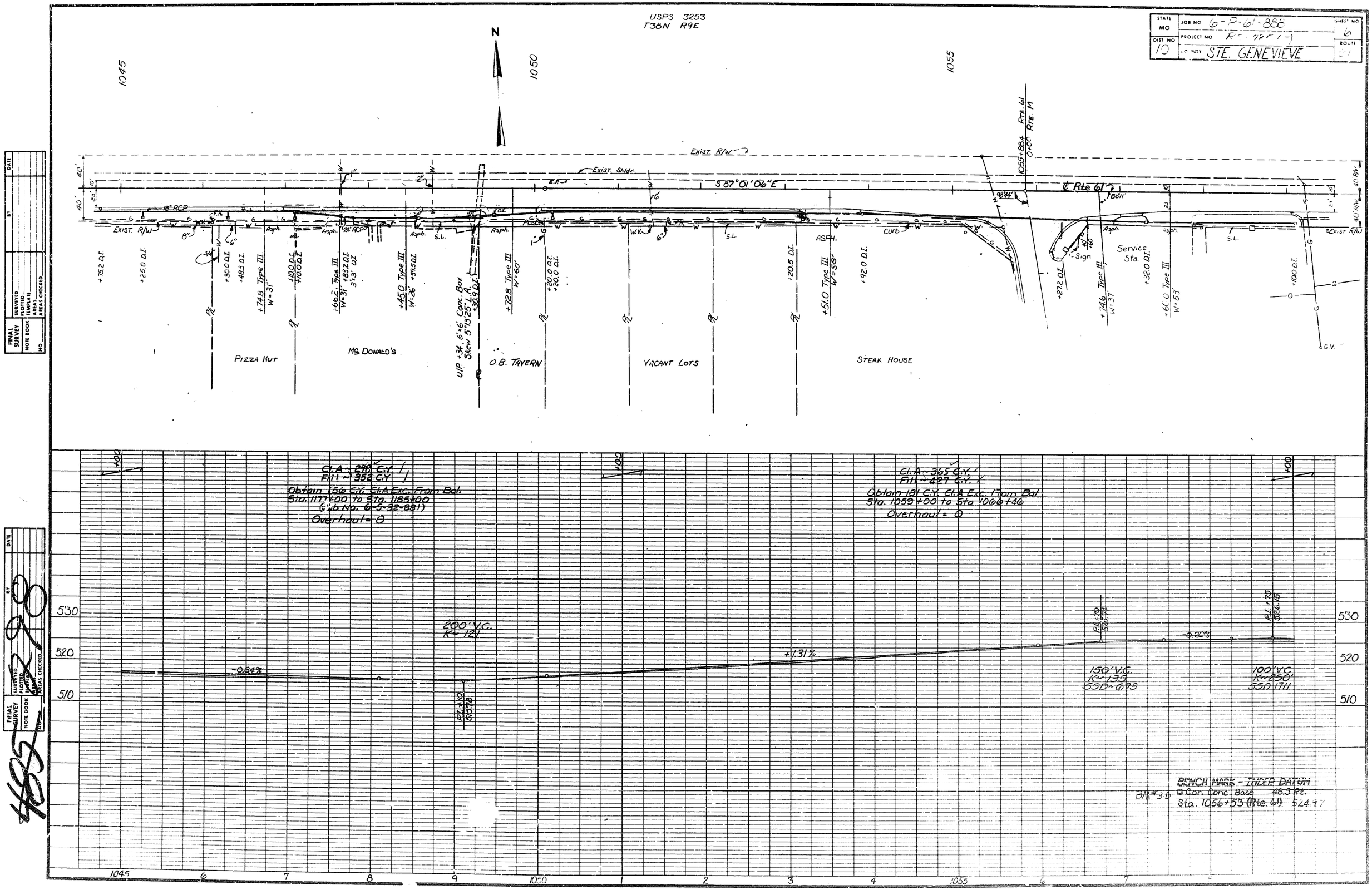
NOTES:
No Direct Payment Will Be Allowed For Clearing And Grubbing On This Project.

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.





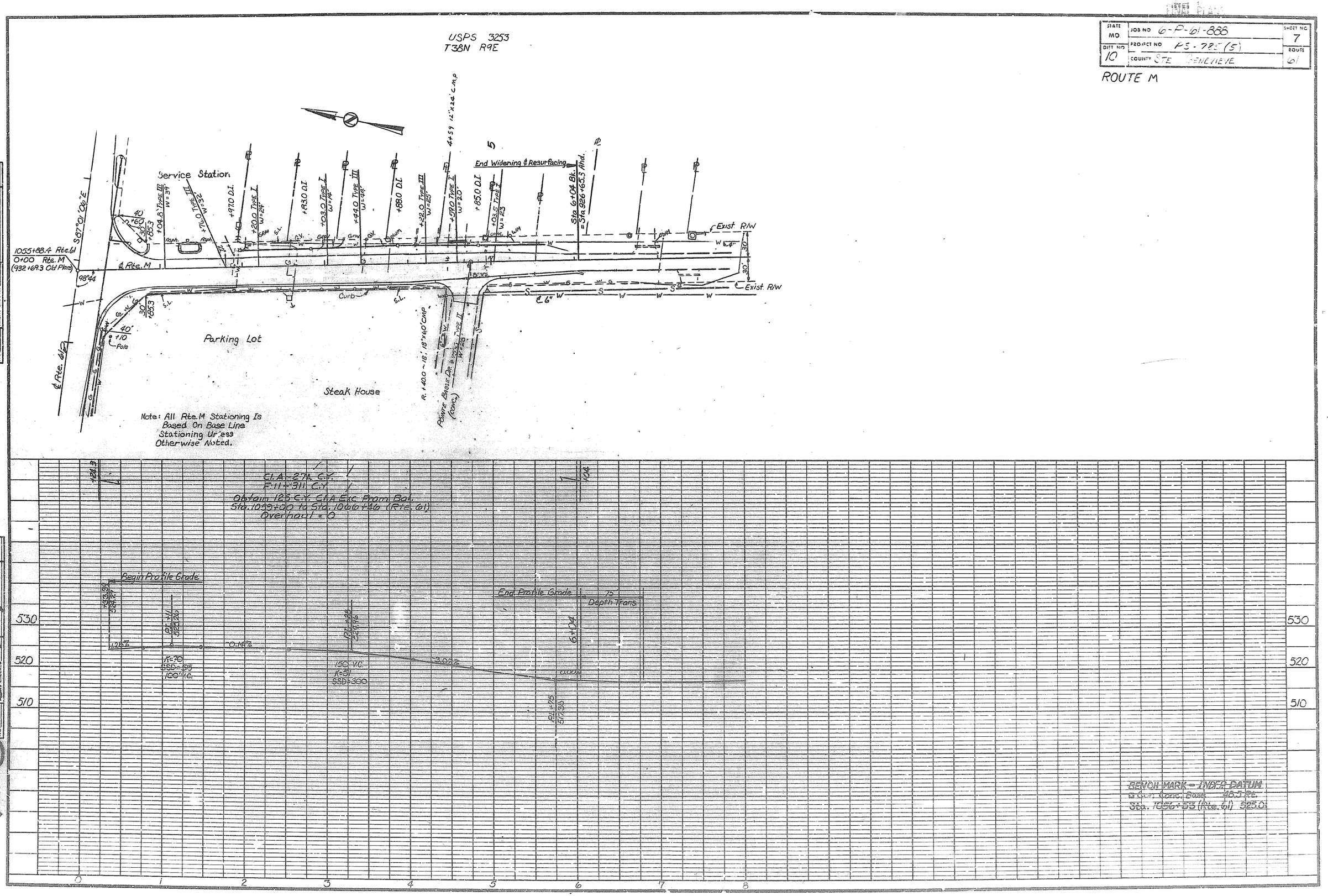
FINAL SURVEY | NOTE BOOK | NO. | SURVEYED | PLOTTED | TYPICALS | AREAS | AREAS CHECKED | BY | DATE



STATE MO
JOB NO 6-P-61-888
SHEET NO 6
DIST NO 10
PROJECT NO
COUNTY STE. GENEVIEVE
ROUTE 61
USPS 3253
T38N R9E
N
1045
1050
1055
Exist R/W
Exist. Shldr.
S 87°01'06"E
℄ Rte 61
1055+88.4 Rte. 61
0+00 Rte. M
Exist. R/W
Asph.
S.L.
Curb
Sign
Service Sta.
+75.2 D.I.
+25.0 D.I.
+30.0 D.I.
+48.3 D.I.
+74.8 Type III W=31'
+10.0 D.I.
+10.0 D.I.
+66.2 Type III W=31'
+83.2 D.I.
3'x3' D.I.
+45.0 Type III W=26'
+59.5 D.I.
U.P. +34, 6'x6' Conc. Box Skew 5°13'25" L.A.
+30.9 D.I.
+72.8 Type III W=60'
+20.0 D.I.
+20.0 D.I.
+20.5 D.I.
+51.0 Type III W=58'
+92.0 D.I.
+27.2 D.I.
+74.6 Type III W=37'
+32.0 D.I.
+60.0 Type III W=53'
+100 D.I.
PIZZA HUT
McDONALD'S
O.B. TAVERN
VACANT LOTS
STEAK HOUSE
Cl. A ~ 298 C.Y.
Fill ~ 352 C.Y.
Obtain 156 C.Y. Cl. A Exc. From Bal.
Sta. 1177+00 to Sta. 1185+00
(Job No. 6-S-32-881)
Overhaul = 0
Cl. A ~ 365 C.Y.
Fill ~ 427 C.Y.
Obtain 181 C.Y. Cl. A Exc. From Bal.
Sta. 1059+00 to Sta. 1066+46
Overhaul = 0
530
520
510
200' V.C.
K ~ 121
-0.54%
+1.31%
-0.20%
P.I. +10 515.78
P.I. +70 523.74
P.I. +75 526.15
150' V.C.
K ~ 135
SSD ~ 673
100' V.C.
K ~ 250'
SSD 1711
BENCH MARK - INDEP. DATUM
BM #3-D
Cor. Conc. Base 48.5 Rt.
Sta. 1056+53 (Rte. 61) 524.97
1045
6
7
8
9
1050
1
2
3
4
1055
6
7
FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

STATE	JOB NO	SHEET NO
MO.	6-P-61-888	7
DIST NO	PROJECT NO	ROUTE
10	PS-785(5)	61
	COUNTY STE GENEVIEVE	

ROUTE M

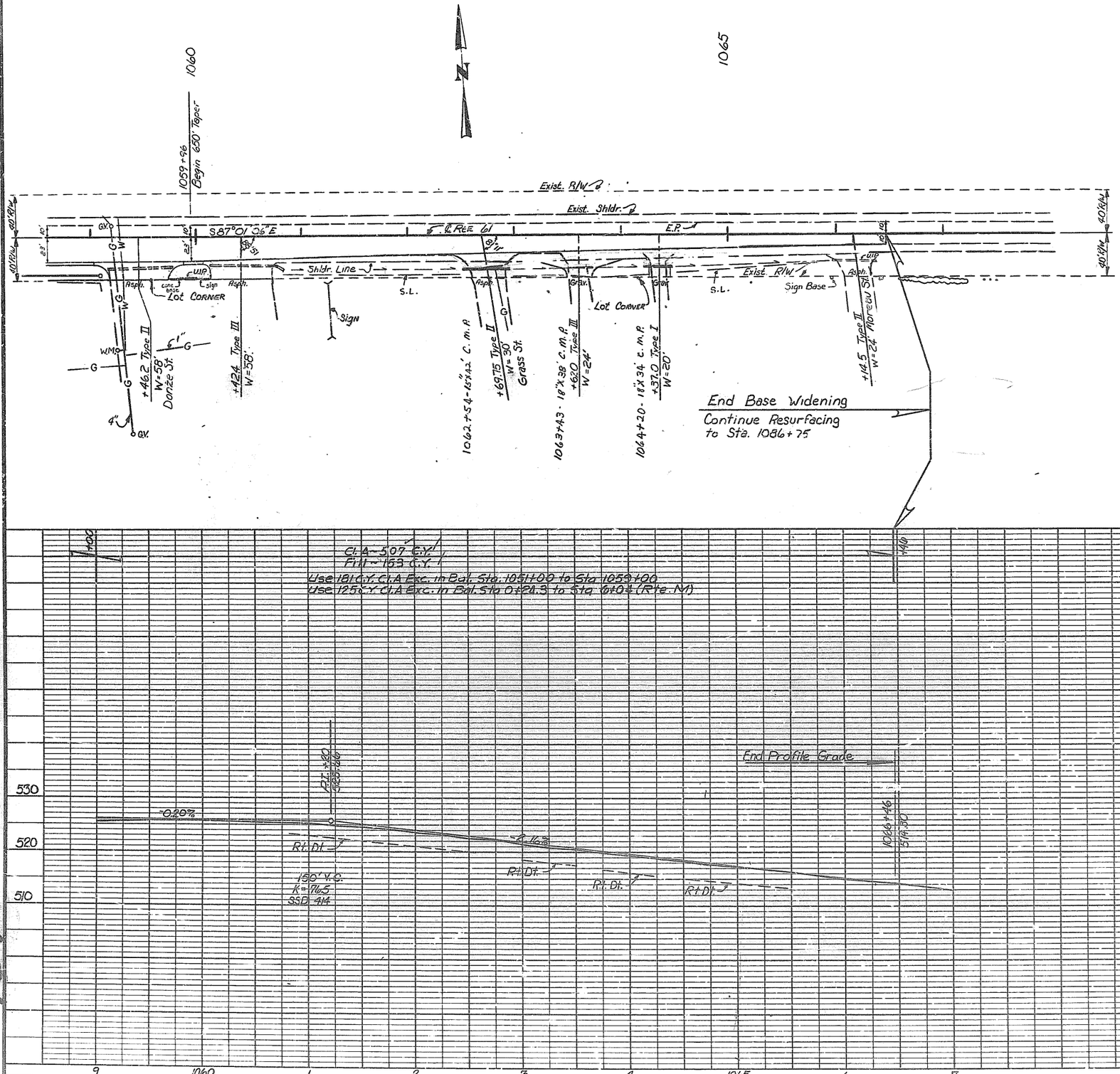


FINAL SURVEY | NOTE BOOK | NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

FINAL SURVEY | NOTE BOOK | NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | DATE

STATE MO.	JOB NO 6-P-61-888	SHEET NO 8
DIST NO 10	PROJECT NO RS-725(5)	ROUTE 61
	COUNTY STE. GENEVIEVE	

USPS 3253
T38N R9E



BENCH MARKS - INDEX DATUM

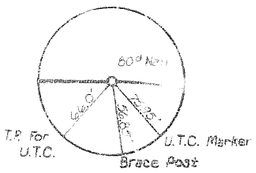
Bm 3-D	⊟ Cor. Conc. Base Sign	48.5' Rt.	
	Sta. 1056+55	Elev. 522.77	
	⊟ Cor. Conc. Base Sign	41.5' Lt.	
Bm 3-E	Sta. 1064+33	Elev. 516.62	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	AREAS CHECKED		

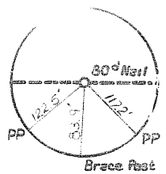
#30
#31

FINAL PLANS

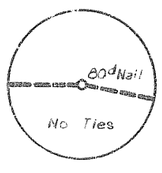
STATE MO.	JOB NO 6-P-61-88B	SHEET NO 4
DIST SEC.	PROJECT NO [illegible]	TOTAL SHEETS
10	COUNTY STE. GENEVIEVE	61



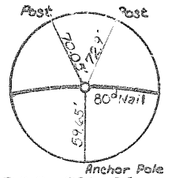
P.C. 913+36.21



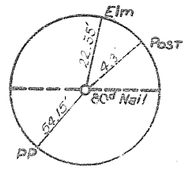
P.O.S.T. 924+83.19



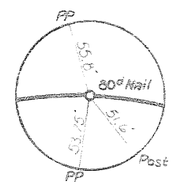
P.I. 927+22.06



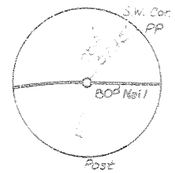
P.O.C. 930+00



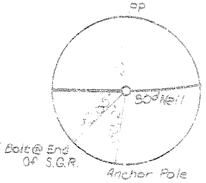
P.O.S.T. 922.16' AHD.
P.I. 927+22.06



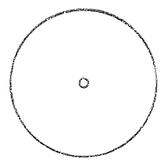
P.O.C. 938+87.3 Rte. 61 = 5+00 Market St. Lt.

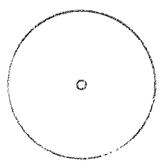


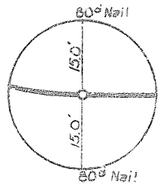
P.T. 940+25.83 BK. = 938+38.37 AHD.



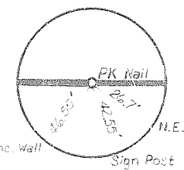
P.C. 1013+44.3



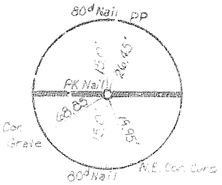




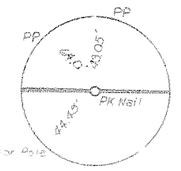
P.T. 1037+12.15 BK. = 1037+11.3 AHD.



P.O.T. 1038+94.78

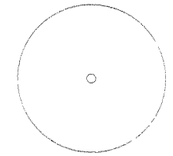


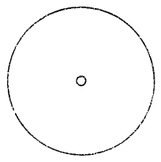
P.O.T. 1050+11.80

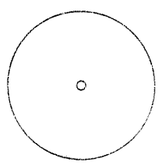


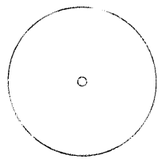
P.O.T. 1055+88.19 = @ Rte. M

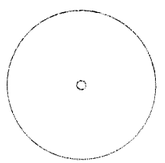


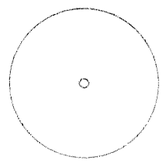


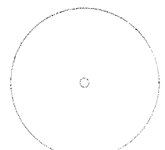






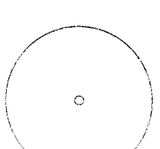


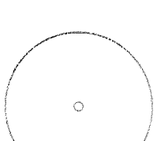


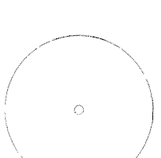


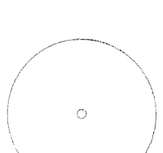


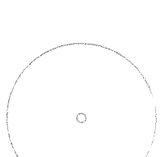






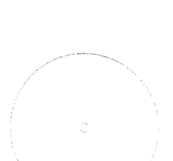


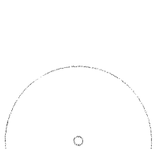


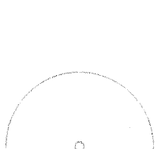


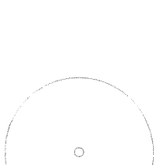


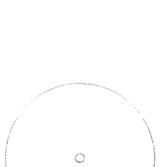








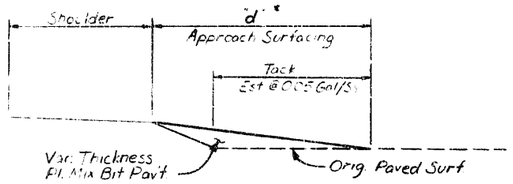






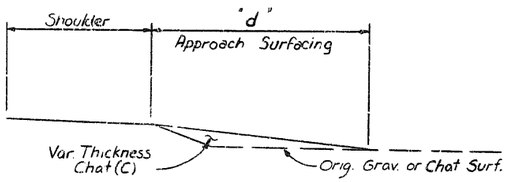
REFERENCED POINTS

STATE	JOB NO	SHEET NO
MO.	6-P-61-888	10
DIST NO	PROJECT NO	ROUTE
10	COUNTY STE GENEVIEVE	61

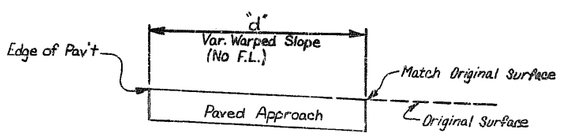


* Surface Depth "d" is to be 5 ft. for Commercial & Residential Entrances Unless Otherwise Noted. Side Roads will be Surfaced to the R/W (40' from ℄).

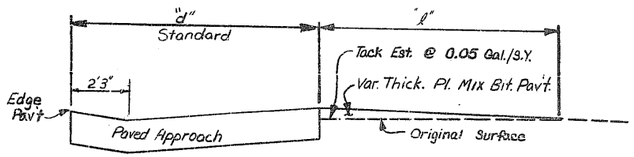
Surface Type AA



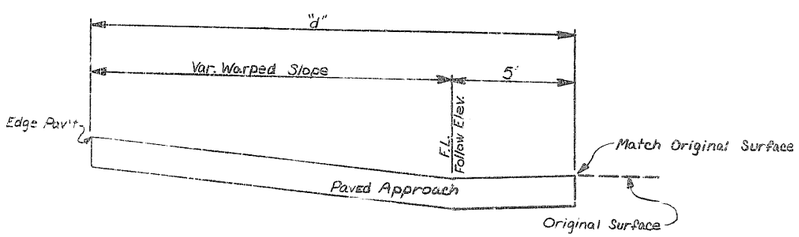
Surface Type BB



Surface Type CC



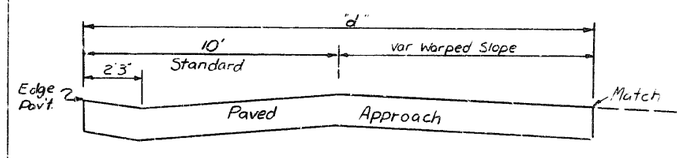
Surface Type DD



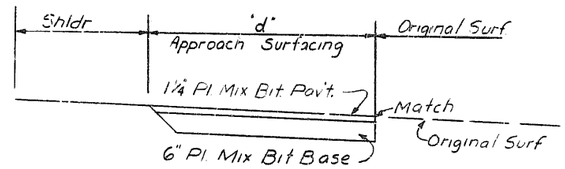
Surface Type EE

APPROACH SURFACING

(Not To Scale, Follow Dimensions)

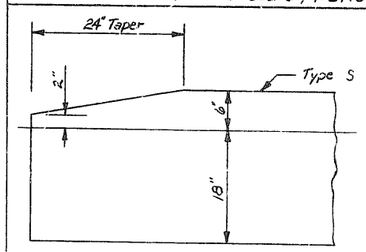


Surface Type FF

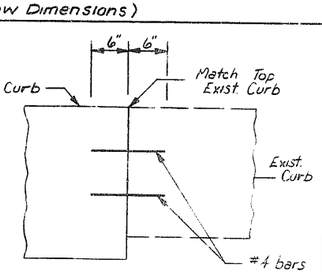


Surface Type GG

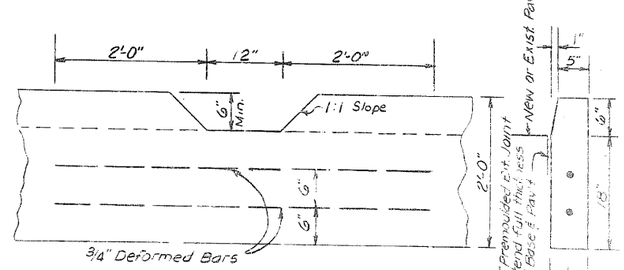
APPROACH SURFACING
(Not to Scale, Follow Dimensions)



END TAPER FOR TYPE S CONCRETE CURB



TIE CURB TO EXIST. CURB

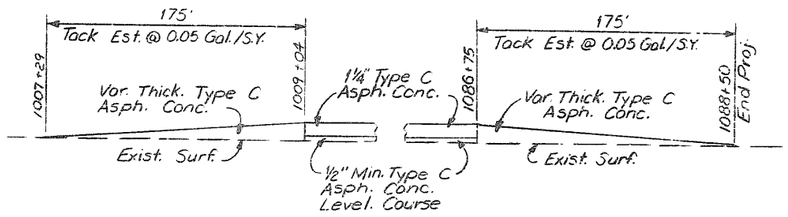


TYPICAL SECTION

The cost of this work is included in the cost of Type S Curb per linear foot.

Note: Drainage Notches are to be constructed in Type S Curb as directed by the Engineer.

DRAINAGE NOTCH FOR TYPE S CONCRETE CURB



RESURFACING DEPTH TRANSITION
AT BR NO. J-134R AND END OF PROJECT

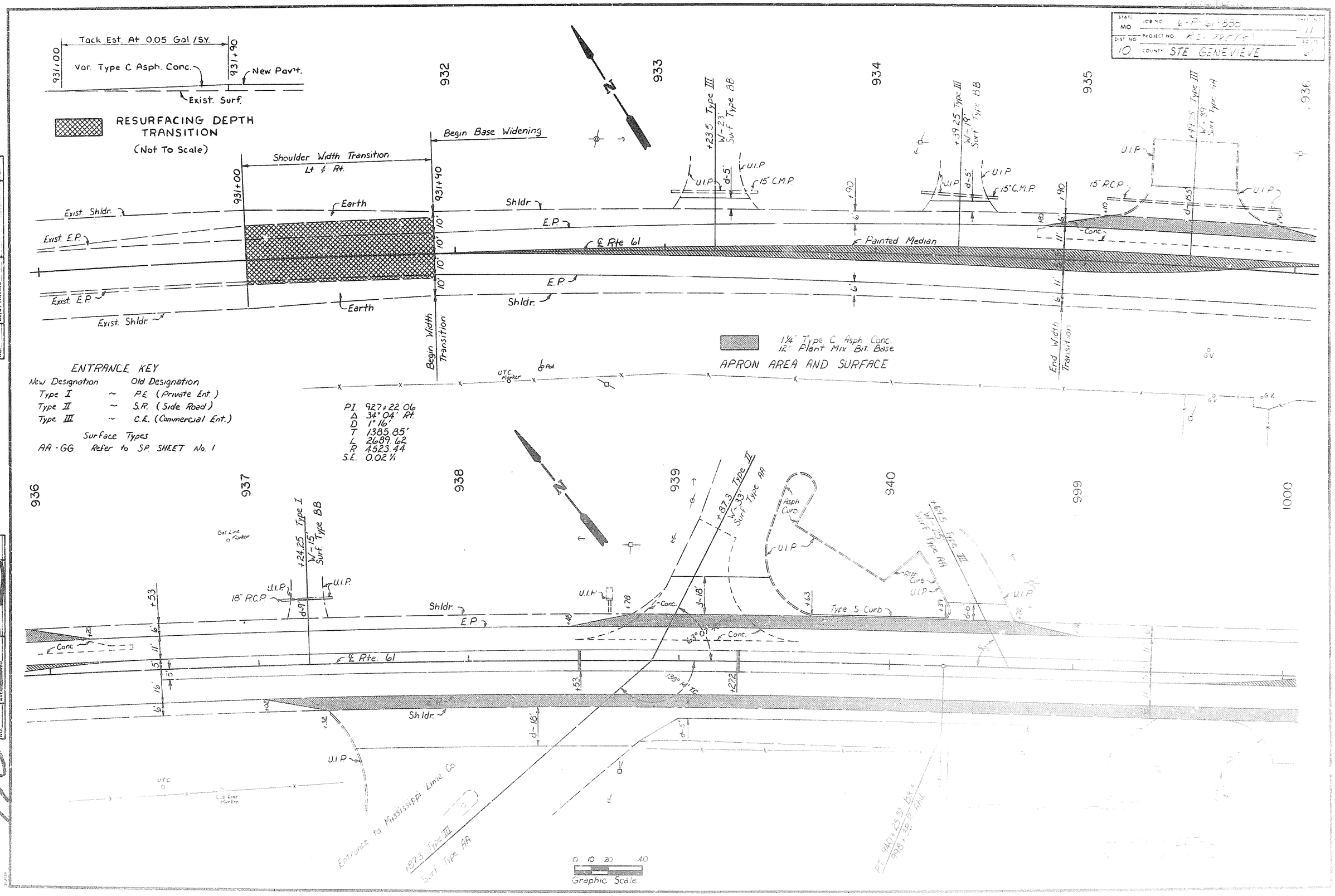


TYPICAL SECTION
for
Entrances and Side Roads Not Included in Curb & Gutter Sections

SPECIAL SHEET NO. 1

FINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

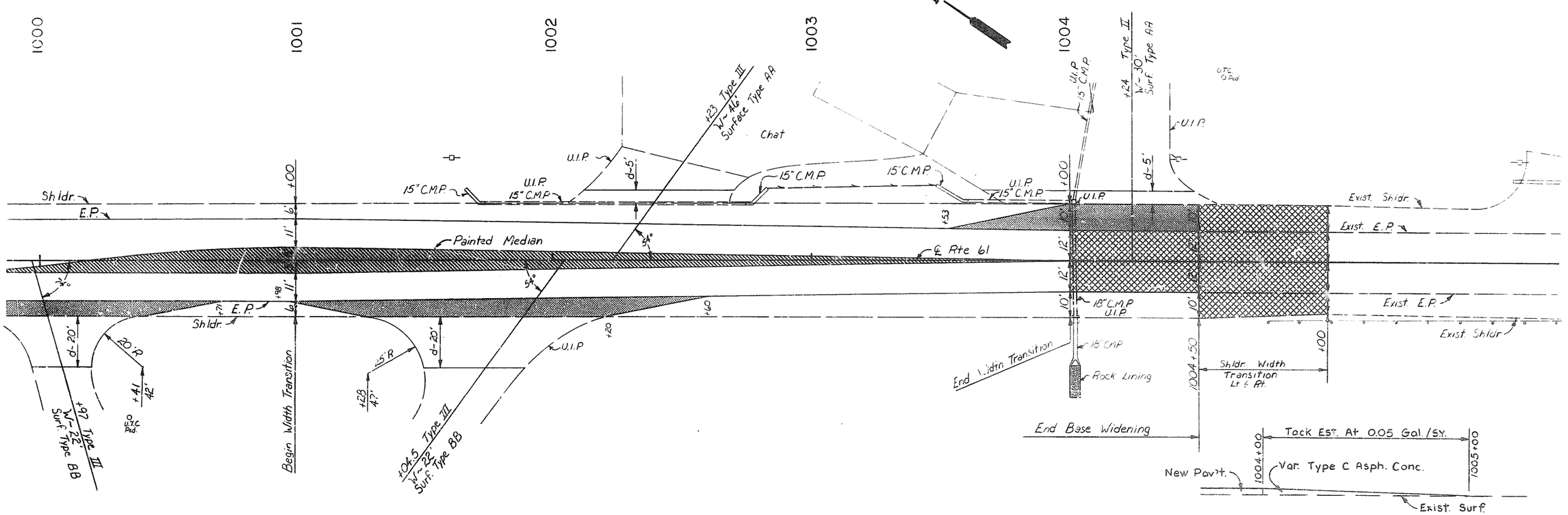
ORIGINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE



STATE MO
JOB NO. 6-P-61-858
SHEET NO. 11
DIST. NO. 10
PROJECT NO. R.S. 725(5)
COUNTY STE. GENEVIEVE
Tack Est. At 0.05 Gal/S.Y.
931+00
931+90
Var. Type C Asph. Conc.
New Pav't.
Exist. Surf.
RESURFACING DEPTH TRANSITION
(Not To Scale)
Begin Base Widening
Shoulder Width Transition
Lt. & Rt.
Exist. Shldr.
Exist. E.P.
Earth
Shldr.
E.P.
℄ Rte 61
Painted Median
Begin Width Transition
End Width Transition
1¼" Type C Asph. Conc.
12" Plant Mix Bit. Base
APRON AREA AND SURFACE
ENTRANCE KEY
New Designation
Old Designation
Type I ~ P.E. (Private Ent.)
Type II ~ S.R. (Side Road)
Type III ~ C.E. (Commercial Ent.)
Surface Types
AA - GG Refer to SP. SHEET No. 1
P.I. 927+22.06
Δ 34°04' Rt.
D 1°16'
T 1385.85'
L 2689.62
R 4523.44
S.E. 0.02 1/1
+23.5 Type III W~23' Surf. Type BB
+39.25 Type III W~19' Surf. Type BB
+49.75 Type III W~39' Surf. Type AA
+24.25 Type I W~15' Surf. Type BB
+87.3 Type II W~33' Surf. Type AA
+69.5 Type III W~25' Surf. Type AA
18" R.C.P.
15" C.M.P.
15" R.C.P.
Asph. Curb
Type S Curb
Conc.
Entrance to Mississippi Lime Co.
+87.3 Type III Surf. Type AA
Graphic Scale
0 10 20 40
FINAL SURVEY
ORIGINAL SURVEY

FINAL PLANS

STATE	JOB NO.	SHEET NO.
MO.	6-P-61-388	12
DIST NO.	PROJECT NO.	ROUTE
10	COUNTY STE. GENEVIEVE	61



1¼" Type C Asph. Conc.
12" Plant Mix Bit. Base

APRON AREA AND SURFACE

RESURFACING DEPTH TRANSITION
(Not To Scale)

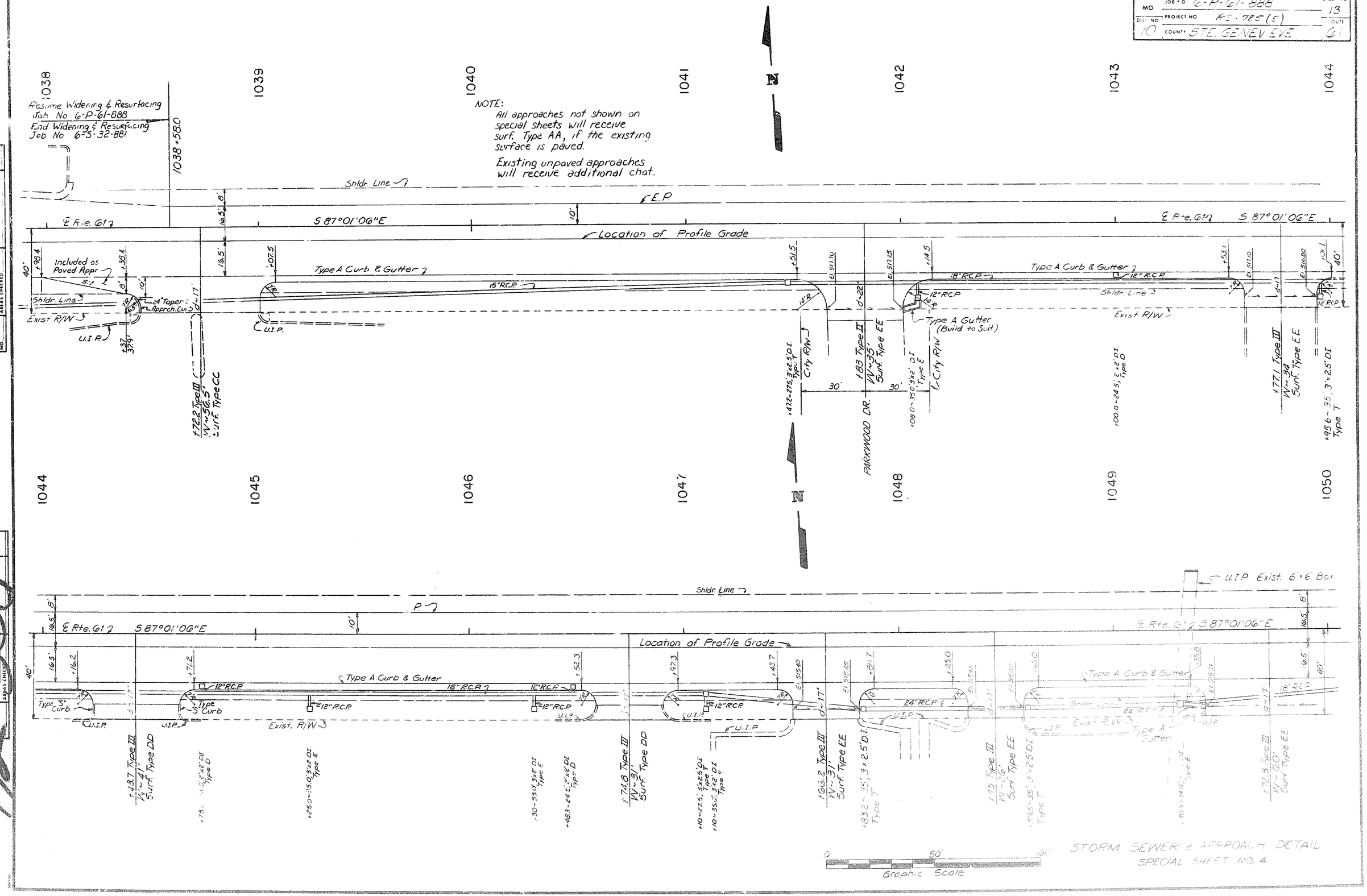
0 10 20 40
Graphic Scale

FINAL SURVEY | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | NOTE BOOK | NO. | BY | DATE

ORIGINAL SURVEY | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | NOTE BOOK | NO. | BY | DATE

FINAL PLANS

STAT MO.	JOB NO. 6-P-61-888	SHEET NO. 13
DIST NO. 10	PROJECT NO. RS-785(5)	ROUTE 61
	COUNTY STE. GENEVIEVE	



STORM SEWER & APPROACH DETAIL
SPECIAL SHEET NO. 4

FINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — NOTE BOOK — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

FINAL PLANS

STATE	JOB NO	SHEET NO
MO.	C-P-61-888	14
DIST NO	PROJECT NO	ROUTE
10	COUNTY S.E. GENEVIEVE	61

FINAL SURVEY — SURVEYED, PLOTTED, HOLE BOOK, NO., BY, DATE, AREAS, AREAS CHECKED

ORIGINAL SURVEY — SURVEYED, PLOTTED, HOLE BOOK, NO., BY, DATE, AREAS, AREAS CHECKED

1050 1051 1052 1053 1054 1055 1056

1056 1057 1058 1059 1060 1061

S87°01'06"E — ℄ Rte. 61 — Shldr. Line — E.P. — Location of Profile Grade

Type A Curb & Gutter — 12" RCP — 18" RCP — Shldr. Line — Exist R/W — UIP — 7'R — 12"RCP — Type S Curb — 15:1 Taper — 15" RCP — Type B Curb & Gutter — J.I.P — 7'Rev — 14'Rev — 4'R — 10'R — 60'R — Type A Curb & Gutter — Type S Curb — 24' Taper on Hppr Curb — 50:1 Taper — Var. Width — Shldr. Line (25.3' Rt. Sta 1060+797 to Sta 1062+81) — Type A Gutter — Exist R/W

El. 516.05 — +20.0~27.5, 3'x2.5'DI. Type T — +20.0~35.0, 3'x2'DI Type E — +20.5~35.0, 3'x2.5'DI. Type T — El. 519.80 — +51.0 Type III W=58' Surf Type EE — El. 520.40 — +90 — +92.0~28.7', 3'x2.5'DI Type T — 1055+68.4 Rec. 61= Ord. Rte. M — 98°44' — S5°45'06"E — 40' +10 C

+272~58.9', 3'x2.5'DI Type T — +74.6 Type III W=37 Surf. Type EE — El. 525.05 — 36.8' +03.0 — 35.2' +26.5 — El. 524.90 — +320~35.0', 3'x2.5'DI Type T — El. 524.85 — 40' +54.8 — 32.4' +54.8 — +60.0 Type III W=53' Surf. Type EE — +60.0 +53.9 — El. 525.25 — +10~35.0', 3'x2'DI Type E — +46.2 Type III W=58' Surf. Type FF — DONZE ST. — 1059+96.0 Begin Width Transition — 32.8' +06.9 — +89.2 — +06.7 — El. 525.10 — +424 Type III W=58' Surf. Type EE — 27.3' +79.7 — 31.5' +79.7 — El. 524.15

0 50' 100' Graphic Scale

STORM SEWER & APPROACH DETAIL
SPECIAL SHEET NO 5

3-30

3-30-78

STATE MO. JOB NO 6-P-61-888 SHEET NO 15
DIST NO 10 PROJECT NO AS-225(5) ROUTE
COUNTY STE. GENEVIEVE

FINAL SURVEY — DATE — SURVEYED — DRAWN — TEMPLATE — AREAS — AREAS CHECKED — NOTE BOOK — NO.

ORIGINAL SURVEY — DATE — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — NOTE BOOK

1057

1056

1055

1054

℄ Rozier St.

Exist R/W

Shldr Line

℄ Exist U.S. Rte. 61

Location of Profile Grade

Exist. E.P.

℄ Rte. M

Exist. E.P.

Type S Curb

Type B Curb & Gutter

Type A Gutter

Type A Curb & gutter

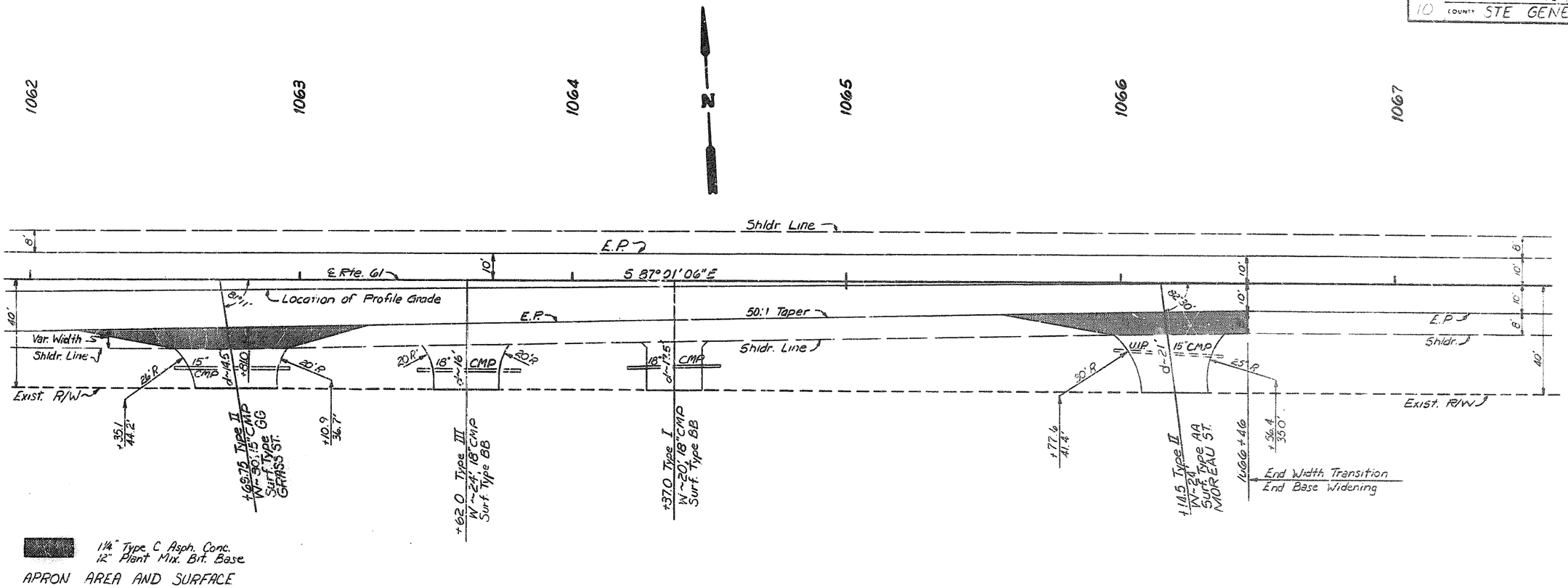
15" RCP

15" RCP

15" RCP

FINAL PLANS

STATE	JOB NO	SHEET NO
MO	6-P-61-888	16
DIST NO	PROJECT NO	ROUTE
10	RS-785(5)	61
	COUNTY STE GENEVIEVE	



0 50' 100'
Graphic Scale

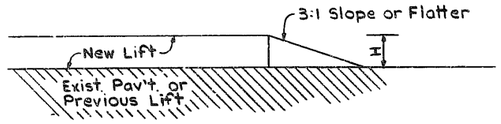
APPROACH DETAIL
SPECIAL SHEET NO. 7

FINAL SURVEY | NOTE BOOK | NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

ORIGINAL SURVEY | NOTE BOOK | NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

FINAL PLANS

STATE	JOB NO.	SHEET NO.
MO.	6-P-61-888	17
DIST. NO.	PROJECT NO.	ROUTE
10	COUNTY STE. GENEVIEVE	61

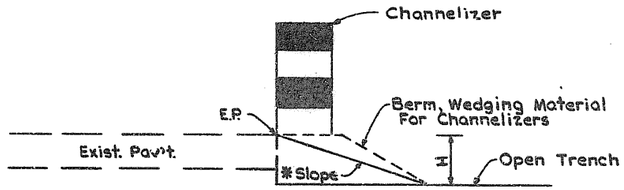


UNEVEN PAVEMENT TREATMENT

(Working Hours And Non-Working Hours)

For Use When Traffic Is Expected To Cross Uneven Pavement Where "H" Is Greater Than 2 Inches

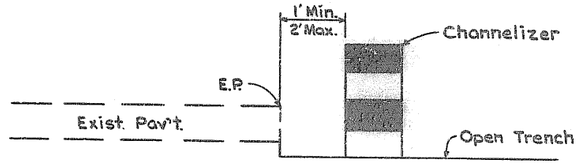
Wedge With Same Material As Used For Lift



SHOULDER DROP-OFF TREATMENT

(Non-Working Hours)

* Wedge Slope To 1:1 For H = 2" to 4" (Plant Mix Bituminous Pav't.)
* Wedge Slope To 3:1 For H > 4" (Type 1 or Type 2 Aggregate)



SHOULDER DROP-OFF TREATMENT

(Working Hours)

EDGE DROP-OFF TREATMENTS

NOTE: See Special Sheet No. 9 For Signing Details And Channelizer Spacing

PAVEMENT MARKING

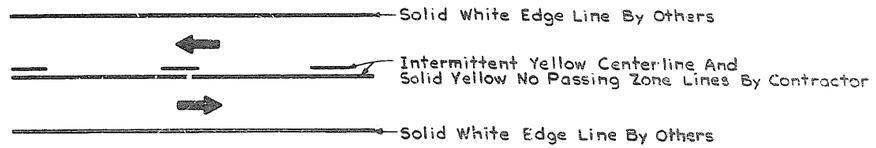
GENERAL NOTES:

All Intermittent Marking With Type I Preformed Marking Tape Shall Be 10 Ft. In Length With 30 Ft. Gaps Between Markings

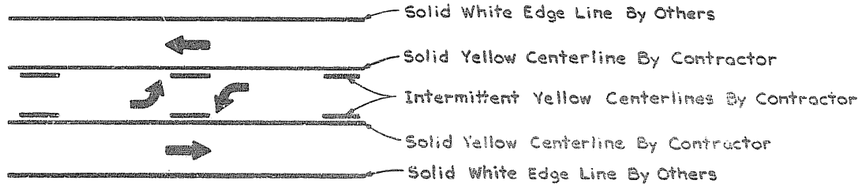
Edge Lines, Arrows, Stop Bars, And Cross Hatchings Are To Be Provided By Others Within 2 Weeks Of The Completion Of Resurfacing

Intermediate Lifts Are To Be Marked With Intermittent Pavement Marking Only, Using Short Term Pavement Marking Tape. Short Term Intermittent Marking Shall Be 4 Ft. In Length With 36 Ft. Gaps Between Markings.

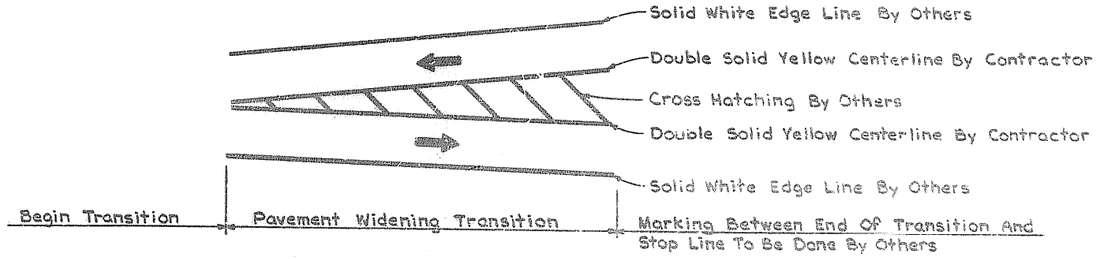
Pavement Marking Beyond The Limits Specified On The 2B Sheet Will Be Provided By Others Unless Directed By The Engineer.



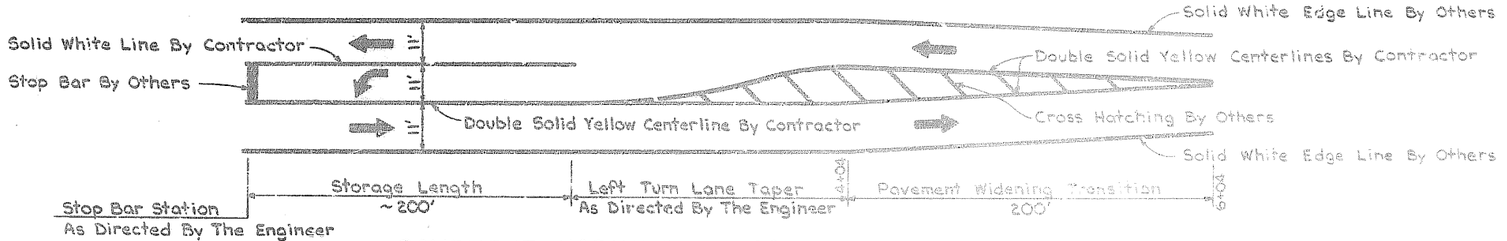
TWO LANE PAVEMENT MARKING



TWO WAY CENTER LEFT TURN LANE PAVEMENT MARKING



PAVEMENT MARKING FOR TAPERS ON ROUTE 61



PAVEMENT MARKING ON ROUTE M

PAVEMENT MARKING DETAILS

Type I Preformed Marking Tape

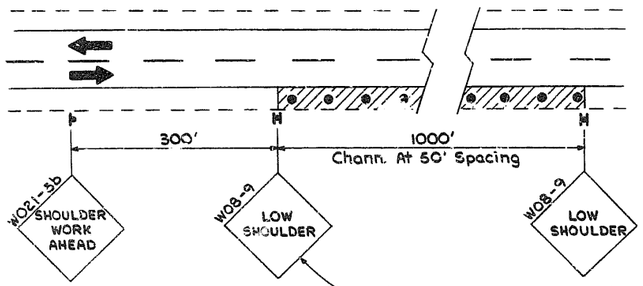
Drawings Not To Scale Follow Dimensions

TRAFFIC CONTROL AND PAVEMENT MARKING PLAN
SPECIAL SHEET NO. 8

FINAL PLAN

STATE MO.	JOB NO S-P-61-888	SHEET NO 18
DIST NO 10	PROJECT NO FS-995(9) COUNTY STE. GENEVIEVE	ROUTE 61

FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

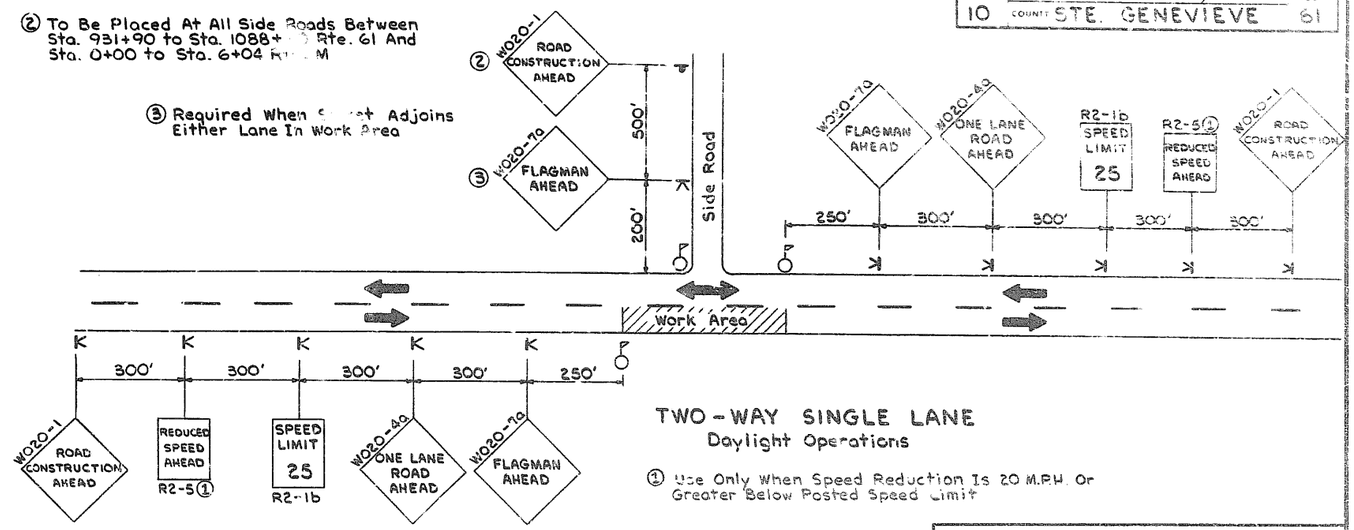


LOW SHOULDER
Two-Way Traffic

This Sign Is Used When The Elevation Between Pavement And Shoulder Is 2 To 4 Inches. Working Hours And Non-Working Hours.

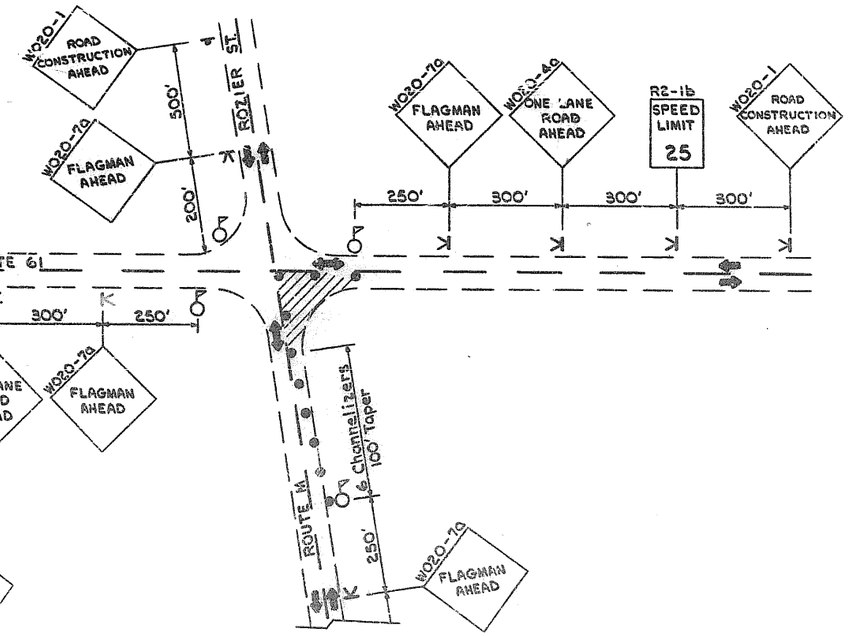
② To Be Placed At All Side Roads Between Sta. 931+90 to Sta. 1088+ Rte. 61 And Sta. 0+00 to Sta. 6+04 Rte. M

③ Required When Shoulder Adjoins Either Lane In Work Area

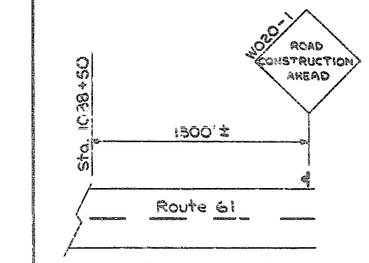


TWO-WAY SINGLE LANE
Daylight Operations

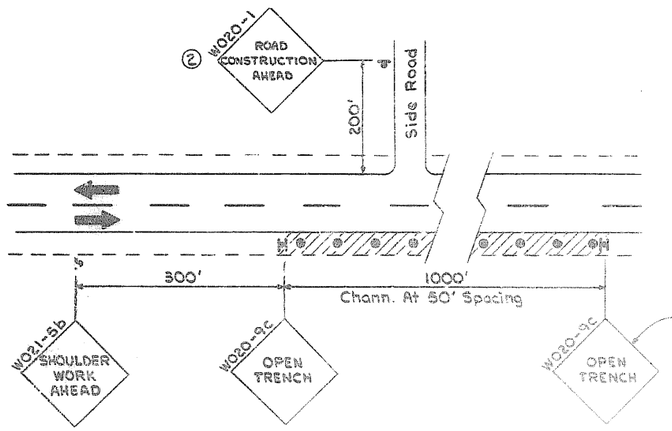
① Use Only When Speed Reduction Is 20 M.P.H. Or Greater Below Posted Speed Limit



PLAN FOR INTERSECTION RTE. 61 AND RTE. M

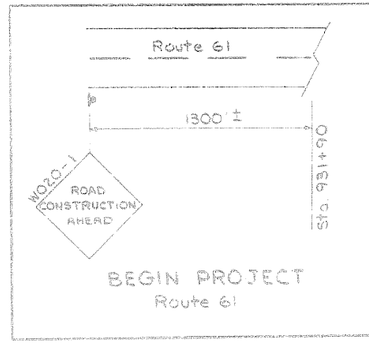


END PROJECT
Route 61



This Sign Is Used When The Elevation Between Pavement And Shoulder Is Greater Than 4 Inches. Working Hours And Non-Working Hours.

OPEN TRENCH
Two-Way Traffic



BEGIN PROJECT
Route 61

— LEGEND —
- Non-Portable Sign
- Portable Sign
- Flagman
- Channelizer, Spacing = Posted Speed Limit Unless Otherwise Noted

TRAFFIC CONTROL PLAN
SPECIAL SHEET NO. 2

ORIGINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

Drawing Not To Scale; Follow Dimensions

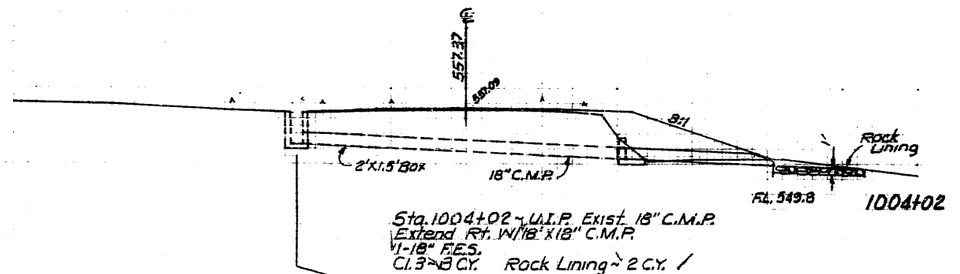
FINAL PLANS

STATE	JOB NO.	
MO	6-P-61-888	19
DIST NO	PROJECT NO.	
10	RS-785(5)	61
	COUNTY STE GENEVIEVE	

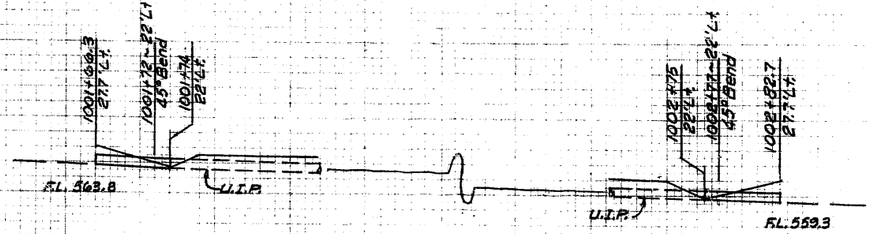
FINAL SURVEY — NOTE BOOK NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — NOTE BOOK NO. 311 — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

10'

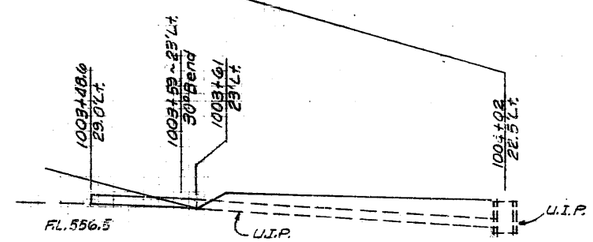


Sta. 1004+02 ~ U.I.P. Exist. 18" C.M.P.
Extend Rt. W/18' x 18" C.M.P.
1-18" F.E.S.
Cl. 3 ~ 8 C.Y. Rock Lining ~ 2 C.Y.



Sta. 1001+66.3 ~ 27.7' Lt. to Sta. 1001+74 ~ 22' Lt.
10' X 15" C.M.P., Incl. 1-45° Bend
Cl. 3 ~ 2 C.Y.

Sta. 1002+75 ~ 22' Lt. to Sta. 1002+82.7 ~ 27.7' Lt.
10' X 15" C.M.P., Incl. 1-45° Bend
Cl. 3 ~ 3 C.Y.



Sta. 1003+48.6 ~ 29.0' Lt. to Sta. 1003+61 ~ 23' Lt.
14' X 15" C.M.P., Incl. 1-30° Bend
Cl. 5 ~ 3 C.Y.

CULVERT SHEET
Sheet 1 of 4

FINAL PLANS

Survey ℄ 516.07 — 1046+48.3 24.5'Rt. — El. 515.38 — **1046+48.3**

Sta. 1046+48.3~24.5'Rt. Type D
2'x2' Precast D.I., D=3'-6"
Grates & Bearing Plates
1-12" Pipe Open.
Cl.3~3 C.Y.

Survey ℄ 516.73 — 1046+30.0 35.0'Rt. — F.L. 515.32 — **1046+30.0** — F.L. 511.90

Sta 1046+30.0~35.0'Rt. Type E
3'X2' Precast D.I., D=4'9"
1-12" Pipe Open.
Cl.3~7 C.Y.

Sta 1046+30.0~27.5'Rt. to 34.0'Rt
7'x12" Cl. III R.C.P.
Cl.3~1 C.Y.

1046+00 27.5'Rt. — +30.0 27.5'Rt. — +48.3 27.5'Rt.

Sta. 1046+48.3~25.5'Rt. to 27.5'Rt.
2'X12" Cl. III R.C.P.
Cl.3~0 C.Y.

Survey ℄ 516.45 — 1047+10.0 35.0'Rt. — F.L. 515.17 — F.L. 514.00 — F.L. 513.90 — **1047+10.0**

Sta. 1047+10.0~35.0'Rt. Type E
3'X2' Precast D.I., D=2'-6"
1-12" Pipe Open.
Cl.3~3 C.Y.

1047+10.0 27.5'Rt. — Top El. 516.54 — F.L. 511.04 — F.L. 510.54

Sta 1047+10.0~20.0'Rt. to 34.0'Rt
5'X12" Cl. III R.C.P.
Cl.3~1 C.Y.

18" R.C.P.

Sta. 1047+10.0~27.5'Rt., Type T
3'X2.5' Precast D.I., D=6'-0"
Type 3 Manhole Frame & Cover
1-12", 1-18" & 1-24" Pipe Open.
Cl.3~8 C.Y.

Sta. 1047+11.25~27.5'Rt. to Sta. 1047+81.7~35.0'Rt.
71'x24" Cl. III R.C.P.
Cl.3~77 C.Y.

24" R.C.P.

1047+83.2 35.0'Rt. — El. 515.75 — F.L. 510.00

Sta. 1047+83.2~35.0'Rt. Type E
3'x2'6" Precast D.I., D=5'-9"
Type 3 Manhole Frame & Cover
2-24" Pipe Open.
Cl.3~9 C.Y.

Sta. 1047+84.7~35.0'Rt. to Sta 1048+58 ~35.0'Rt
74'x24" Cl. III R.C.P.
Cl.3~84 C.Y.

24" R.C.P.

1048+59.5 35.0'Rt. — El. 515.70 — F.L. 509.45

Sta. 1048+59.5~35.0'Rt. Type T
3'x2'6" Precast D.I., D=6'-3"
Type 3 Manhole Frame & Cover
2-24" Pipe Open. Cl.3~10 C.Y.

24" R.C.P.

Survey ℄ 517.92 — 1043+00 24.5'Rt. — El. 516.55 — **1043+00.0** — F.L. 514.05

Sta. 1043+00~24.5'Rt. Type D
2'x2' Precast D.I., D=2'6"
Grates & Bearing Plates
1-12" Pipe Open.
Cl.3~3 C.Y.

Sta. 1043+00~25.5'Rt. to 27.5'Rt
2'X12" Cl. III R.C.P.
Cl.3~0 C.Y.

1043+00 27.5'Rt.

Survey ℄ 517.53 — 1043+95.6 35.0'Rt. — El. 517.30 — **1043+95.6** — F.L. 513.30

Sta. 1043+95.6~35.0'Rt. Type T
3'x2'6" Precast D.I., D=4'-0"
Type 3 Manhole Frame & Cover
1-12" Pipe Opening Cl.3~4.7 C.Y.

1043+95.6 27.5'Rt. — +95.6 27.5'Rt.

Sta 1043+95.6~27.5'Rt. to 33.75 Rt.
7'x12" Cl. III R.C.P.
Cl.3~2 C.Y.

Survey ℄ 517.24 — 1044+75.2 24.5'Rt. — El. 516.92 — **1044+75.2** — F.L. 512.92

Sta. 1044+75.2~24.5'Rt. Type D
2'x2' Precast D.I., D=3'-0"
Grates & Bearing Plates, Curb Inlet
1-12" Pipe Open.
Cl.3~4 C.Y.

Sta. 1044+75.2~25.5'Rt. to 27.5'Rt
2'x12" Cl. III R.C.P.
Cl.3~0 C.Y.

+75.2 27.5'Rt. — +25.0 24.5'Rt.

Survey ℄ 517.09 — 1045+25.0 35.0'Rt. — El. 515.47 — **1045+25.0** — F.L. 512.55

Sta 1045+25.0~35.0'Rt. Type E
3'x2' Precast D.I., D=4'-3"
1-12" Pipe Open.
Cl.3~6 C.Y.

Sta. 1045+25.0~27.5'Rt. to 34.0'Rt
7'x12" Cl. III R.C.P.
Cl.3~4 C.Y.

18" R.C.P.

Sta. 1041+48.45~27.5'Rt. to Sta. 1047+08.75~27.5'Rt
1501'X18" Cl. III R.C.P., Incl. 7-12" Tees
Cl.3~344 C.Y.

1040+00 27.5'Rt.

Survey ℄ 518.53 — 1042+08.0 35.0'Rt. — Gutter F.L. 516.75 — Type A Gutter — F.L. 514.58

Sta. 1042+05~35.0'Rt. Type E
3'x2' Precast D.I., D=3'-3"
1-12" Pipe Open. Square Spillway (3"x3")
Cl.3~5 C.Y.

Sta. 1042+08~27.5'Rt. to 34.0'Rt.
7'x12" Cl. III R.C.P.
Cl.3~4 C.Y.

1042+08 27.5'Rt.

1040+00 27.5'Rt. — 1041+42.2 27.5'Rt. — El. 519.36 — 15" R.C.P. — F.L. 514.86 — F.L. 514.61 — 18" R.C.P.

Sta. 1041+47.2~27.5'Rt. Type T
3'X2.5' Precast D.I., D=4'-9"
Type 3 Manhole Frame & Cover
1-12" & 1-18" Pipe Open.
Cl.3~8 C.Y.

1037+75 37.5'Rt. — F.L. 524.10 — 15" R.C.P.

Sta 1037+75~37.5'Rt. to Sta. 1041+45.95~27.5'Rt
311'X15" Cl. III R.C.P., 4-15" F.E.S
Cl.3~101 C.Y.

Lid — 1'-3" — 3" — Lid — 3" — Type A Gutter — Gutter F.L. — ½" Expansion Mat'l. — Match End of Gutter with Inside wall.

View on Opening Side of Type E Inlet with Square Spillway Modification.

Side View of Type E Inlet with Square Opening & Placement of Gutter There-in.

SPECIAL INLET DETAILS

Type E Inlet with Square Opening & Insertion Details for Type A Gutter.
(No Direct Payment)

FINAL PLANS
6-P-64-5
P.I. 705(5)
Sta Gene. 6+6

10

Survey ℄ 526.08
1059+10.0 35.0' Rt. Type A Gutter
1059+10.0

1058+00 35.0' Rt.
1059+10.0 35.0' Rt.
F.L. 524.12
15" R.C.P.
F.L. 522.45
Sta 1057+33.5 ~ 35.0' Rt. to Sta. 1059+08.5 ~ 35.0' Rt.
175' x 15" Cl. III R.C.P.
Cl. B ~ 41.8 C.Y.

Survey ℄ 525.16 Constr. ℄
Sta. 1059+10.0 ~ 35.0' Rt. Type E
3' x 2' Precast D.I., D=3'-3"
1-15" Pipe Open, Square Spillway (3' x 1'3")
Cl. B ~ 5 C.Y.

+28.9 ~ 56.1' 30° Bend
1056+27.2 58.9' Rt.
Top El. 524.16
1056+28.9
F.L. 520.66
Sta. 1056+28.9 ~ 33.1' Rt. to Sta. 1056+27.9 ~ 57.8' Rt.
25' x 12" Cl. III R.C.P., Incl. 1-30° Bend
Cl. B ~ 12 C.Y.

Sta. 1056+27.2 ~ 58.9' Rt. Type T
3' x 2.5' Precast D.I., D=3'-6"
Type 3 Manhole Frame & Cover
1-12" Pipe Open.
Cl. B ~ 8 C.Y.

1055+00 30.7' Rt.
+28.9 33.1' Rt.
1057+32.0 35.0' Rt.
El. 525.40
F.L. 520.90
15" R.C.P.
1058+00 35.0' Rt.
15" R.C.P.

Sta. 1053+93.25 ~ 28.7' Rt. to Sta 1057+30.5 ~ 35.0' Rt.
338' x 15" Cl. III R.C.P., Incl. 1-12" Tee
Cl. B ~ 157 C.Y.

Sta 1057+32.0 ~ 35.0' Rt. Type E
3' x 2'6" Precast D.I., D=3'-6"
Type 3 Manhole Frame & Cover
2-15" Pipe Openings
Cl. B ~ 7 C.Y.

Survey ℄ 521.16
1053+20.5 35.0' Rt.
El. 520.30
1053+20.5
F.L. 517.05
Sta 1053+20.5 ~ 28.7' Rt. to 33.75' Rt.
6' x 12" Cl. III R.C.P.
Cl. B ~ 0 C.Y.

Sta. 1053+20.5 ~ 35.0' Rt. Type E
3' x 2'6" Precast D.I., D=3'-3"
Type 3 Manhole Frame & Cover
1-12" Pipe Open.
Cl. B ~ 6 C.Y.

1054+00 28.1' Rt.
+20.5 28.5' Rt.
1053+92.0 28.7' Rt.
Top El. 522.14
18" R.C.P.
F.L. 517.89
F.L. 518.14
15" R.C.P.
1055+00 30.7' Rt.

Sta. 1053+92.0 ~ 28.7' Rt. Type T
3' x 2.5' Precast D.I., D=2'-3"
Type 3 Manhole Frame & Cover
1-18" & 1-15" Pipe Open.
Cl. B ~ 3 C.Y.

Survey ℄ 517.22
1050+20.0 27.5' Rt.
F.L. 515.17
1050+20.0
F.L. 513.85
F.L. 514.00
Sta 1050+20.0 ~ 35.0' Rt. Type E
3' x 2' Precast D.I., D=2'-9"
1-18" Pipe Open.
Cl. B ~ 1 C.Y.

1049+30.9 34.0' Rt.
1049+60 34.4' Rt.
F.L. 514.20 Std Spillway
F.L. 513.95 Sq. Spillway
F.L. 509.03
F.L. 508.53 Type A Gutter
24" R.C.P.
Top of Box El. 508.78
18" R.C.P.
Sta 1050+20.0 ~ 2½.0' Rt. to 34.0' Rt.
5' x 12" Cl. III R.C.P.
Cl. B ~ 0 C.Y.

1050+20.0 27.5' Rt.
Top El. 517.29
F.L. 511.29
Sta. 1048+60 ~ 35.0' Rt. to Sta. 1049+29.4 ~ 34.0' Rt.
69' x 24" Cl. III R.C.P.
Cl. B ~ 71 C.Y.

Sta. 1049+32.4 ~ 34.0' Rt. to Sta. 1050+18.75 ~ 27.5' Rt.
87' x 18" Cl. III R.C.P.
Cl. B ~ 80 C.Y.

Sta. 1050+20.0 ~ 27.5' Rt., Type T
3' x 2.5' Precast D.I., D='6'-0"
Type 3 Manhole Frame & Cover
2-18", 1-12" Pipe Open.
Cl. B ~ 5 C.Y.

1054+00 28.1' Rt.
1053+92.0 28.7' Rt.
1055+00 30.7' Rt.
Top El. 522.14
18" R.C.P.
F.L. 517.89
F.L. 518.14
15" R.C.P.

Sta. 1053+92.0 ~ 28.7' Rt. Type T
3' x 2.5' Precast D.I., D='4'-3"
Type 3 Manhole Frame & Cover
1-18" & 1-15" Pipe Open.
Cl. B ~ 3 C.Y.

1049+60 34.4' Rt.
1049+30.9 34.0' Rt.
1050+20.0 27.5' Rt.
Top El. 517.29
F.L. 511.29
15" R.C.P.
Sta. 1050+[illegible]
370' x 18" [illegible] R.C.P.
Cl. B ~ 127 C.Y.

Exist. 6'x6' Box Culv.
24" R.C.P.
18" R.C.P.
3'x3' D.I.
Sta. 1049+30.9 ~ 34' Rt.
U.I.P. 3'x3' Hole in top of Exist. Box Culv.
PLAN

Sta. 1049+30.9 ~ 34.0' Rt. Type E
3'x3' Cast-in-Place D.I. D='6'-9"
1-Standard Spillway & 1-Square Spillway (3' x 1'3")
1-24" & 1-18" Pipe Open., Type A Cover
Cl. B ~ 9 C.Y.

FINAL SURVEY
ORIGINAL SURVEY
DATE
BY

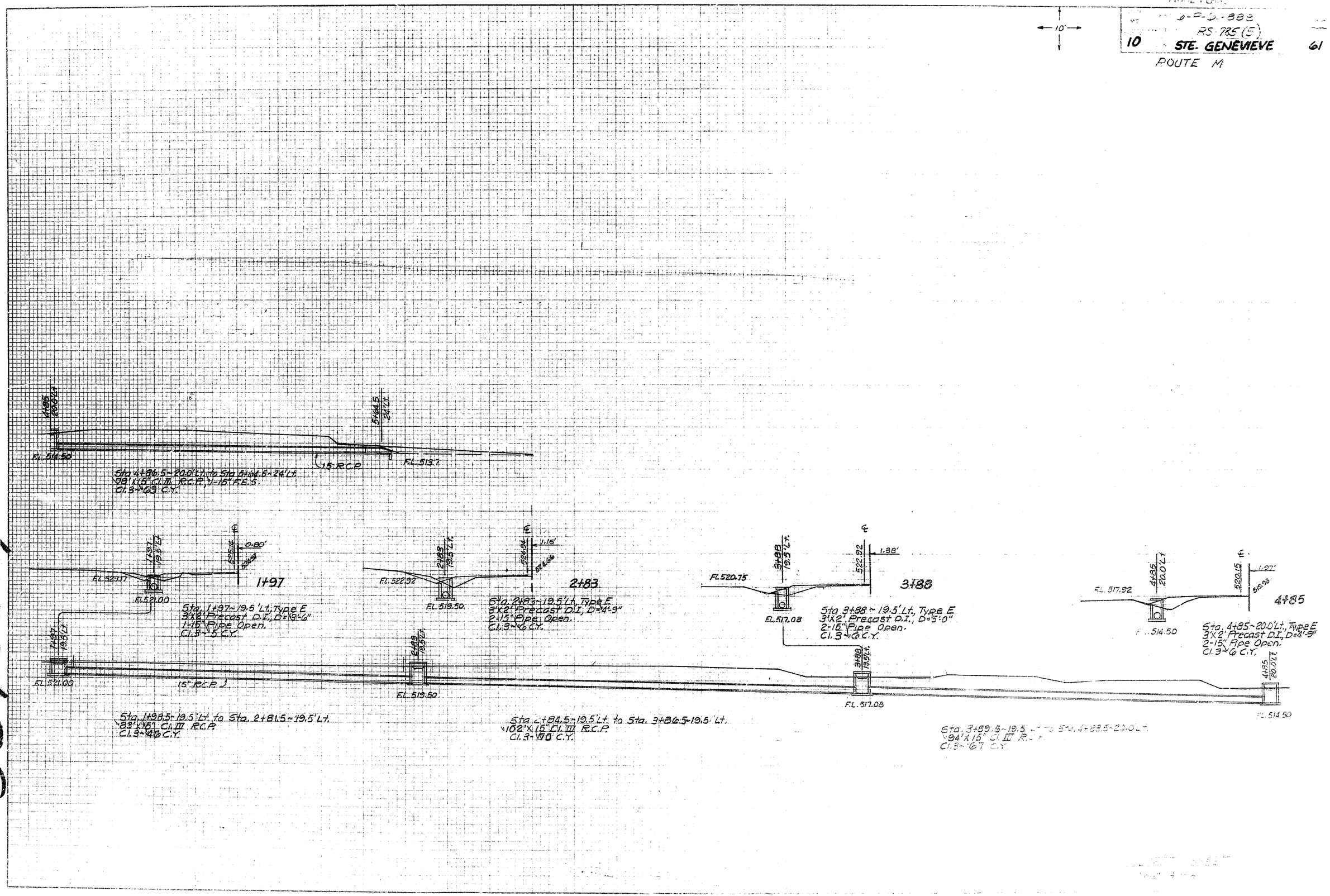
FINAL PLANS

6-P-6-883

RS 785 (5)

10 STE. GENEVIEVE 61

ROUTE M



FINAL SURVEY | NOTE BOOK | NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

ORIGINAL SURVEY | NOTE BOOK | NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

Sheet 3 of 4

FINAL PLANS

REV SEPT. 1, 1989

STATE	JOB NO. 6-P-61-888	SHEET NO.
MO		23
DIST NO.	PROJECT NO. RS-785(5)	ROUTE
10	COUNTY Ste Genevieve	61

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

STANDARD PLANS

✓	NO.	DESCRIPTION
✓	203.00E	EXCAVATION & EMBANKMENT
	203.02C	UNDERGRADING
	203.10A	TABULATED EARTHWORK & SECTION DATA
✓	203.20B	SUPERELEVATION SPIRALS & WIDENING (UNDIVIDED)
	203.21B	SUPERELEVATION SPIRALS & WIDENING (DIVIDED)
✓	203.30A	ENTRANCES & APPROACHES (LESS THAN 400 ADT)
	203.31B	ENTRANCES & APPROACHES (GREATER THAN 400 ADT - NO SAFETY ZONE)
	203.32D	ENTRANCES & APPROACHES (GREATER THAN 400 ADT - SAFETY ZONE)
	203.35A	MAILBOX TURNOUTS
	203.40E	TYPICAL DETAILS-RAMPS FOR INTERCHANGES (OTHER THAN 6:1 FORESLOPE)
	203.41E	TYPICAL DETAILS-RAMPS FOR INTERCHANGES (6:1 FORESLOPE)
	203.50J	TYPICAL CROSS-OVERS (DIVIDED HIGHWAYS)
	203.61	DRIVEWAY-TYPE I *
	203.62	DRIVEWAY-TYPE II *
	203.63	DRIVEWAY-TYPE III *
	203.64	DRIVEWAY-TYPE IV *
	203.65	DRIVEWAY-TYPE V *
	204.00D	EMBANKMENT CONTROL MEASURING DEVICES
	502.00M	CONCRETE PAVEMENT & BASE APPURTENANCES
	502.10E	DOWEL SUPPORTING UNITS
	503.00J	CONCRETE APPROACH SLABS TO BRIDGES.(ALSO INCLUDE 502.00)
	•	
	602.00A	RIGHT-OF-WAY & DRAIN MARKERS
	•	
	604.05B	PIPE CULVERT HEADWALLS - TYPE S *
	•	
	604.10B	HEADWALL-WITH ENERGY DISSIPATOR - 18"
	604.11B	HEADWALL-WITH ENERGY DISSIPATOR - 24"
	604.12B	HEADWALL-WITH ENERGY DISSIPATOR - 30"
	604.13B	HEADWALL-WITH ENERGY DISSIPATOR - 36"
	604.14B	HEADWALL-WITH ENERGY DISSIPATOR - 42"
	604.15B	HEADWALL-WITH ENERGY DISSIPATOR - 48"
	•	
	604.20B	DROP INLET - TYPE B
	604.21B	DROP INLET - TYPE C
	604.22B	DROP INLET - TYPE D
✓	604.23B	DROP INLET - TYPE E
	604.24B	DROP INLET - TYPE EE
	604.25C	DROP INLET - TYPE F *
	604.26D	DROP INLET - TYPE G *
	604.27C	DROP INLET - TYPE S (3 SHEETS)
	604.28E	DROP INLET - TYPE T (ALSO INCLUDE 614.30) *
	604.29C	DROP INLET - TYPE X
	604.30F	CONCRETE MANHOLES (ALSO INCLUDE 614.30)
	604.40E	PIPE COLLARS
	•	
	605.10A	CLASS A UNDERDRAINS
	606.00T	GUARD RAIL (2 SHEETS)
	606.20H	BRIDGE ANCHOR SECTION (BRUSH CUR3)(ALSO INCLUDE 606.00) *
	606.21G	BRIDGE ANCHOR SECTION-CURB TYPE (ALSO INCLUDE 606.00) *
	606.22E	BRIDGE ANCHOR SECTION (SAFETY BARRIER CURB)(ALSO INCLUDE 606.00) *
	606.30E	TERMINAL SECTION (ALSO INCLUDE 606.00)
	606.40A	GUARD CABLE
	607.10R	CHAIN LINK FENCE *
	607.11B	CHAIN LINK FENCE FOR RETAINING WALLS
	607.20F	WOVEN WIRE FENCE (ALSO INCLUDE 607.10)

✓	NO.	DESCRIPTION
✓	608.00C	PAVED APPROACHES
	608.10G	CONCRETE SIDEWALK & WHEELCHAIR RAMPS
	608.20C	CONCRETE STEPS
✓	609.00G	CONCRETE CURB - CURB & GUTTER - GUTTER
	609.15A	PAVED DITCHES
	609.40D	DRAIN BASIN, SHOULDER PAVING & FILL SLOPE AT BRIDGE ENDS
✓	609.60A	DITCH LINER
✓	609.70C	ROCK LINING FOR CULVERT OUTLETS
	610.20E	BRICK MANHOLES (ALSO INCLUDE 614.30)
	611.60L	CONCRETE SLOPE PROTECTION
	612.10K	BARRICADES AND FLASHER SIGNS
	613.00A	PAVEMENT REPAIR *
✓	614.10N	CURB INLETS, GRATES & BEARING PLATES
✓	614.30D	MANHOLE FRAMES & COVERS
	615.00A	OFFICE FOR ENGINEER
✓	616.10K	TRAFFIC CONTROL DEVICES (3 SHEETS)(ALSO INCLUDE 903.01) *
	617.00V	CONCRETE TRAFFIC BARRIER (3 SHEETS)
	702.01F	16" CONCRETE PILES (APPROVED TYPES)(2 SHEETS) *
	702.02B	CAST-IN-PLACE CONCRETE PILES (APPROVED TYPES)
	703.20D	CONCRETE BOX CULVERTS, H20 LOADING (3 SHTS)(INCL 706.35)
	703.21D	CONCRETE BOX CULVERTS, H20 LOADING (3 SHEETS)(FLARED WINGS)(INCL 706.35)
	703.24E	CONCRETE BOX CULVERTS, SKEW DATA (703.20 & 703.30)(INCL 706.35) *
	703.25E	CONCRETE BOX CULVERTS, SKEW DATA (703.21)(3 SHTS)(FLRD WINGS)(INCL 706.35) *
	703.30E	CONCRETE BOX CULVERTS, 4' SPANS & LESS-ALL LOADING (INCL 706.35) *
	703.35B	CONCRETE BOX CULVERTS, CUTTING DETAILS (STRAIGHT WINGS) (INCL 706.35)
	703.36A	CONCRETE BOX CULVERTS, CUTTING DETAILS (FLARED WINGS) (INCL 706.35)
	703.50G	CONCRETE DOUBLE BOX STRUCTURE-SQUARE (INCL 706.35) *
	703.51F	CONCRETE DOUBLE BOX STRUCTURE-SKEWED (INCL 706.35) *
	703.52C	CONCRETE DOUBLE BOX STRUCTURE-CUT SECTIONS (INCL 706.35)*
	703.54D	DOUBLE BOX STRUCTURE REINFORCEMENT-H20 OR HS20 LOADING (8 SHEETS)
	703.55D	CONCRETE DOUBLE BOX STRUCTURE (FLARED WINGS) SQUARE (INCL 706.35) *
	703.56D	CONCRETE DOUBLE BOX STRUCTURE (FLARED WINGS) SKEWED (INCL 706.35) *
	703.60C	CONCRETE BOX STRUCTURE-PIPE INLET
	703.70C	CONCRETE TRIPLE BOX STRUCTURE-SQUARE (2 SHEETS) (INCL 706.35) *
	703.71C	CONCRETE TRIPLE BOX STRUCTURE-SKEWED (2 SHEETS) (INCL 706.35) *
	703.72C	CONCRETE TRIPLE BOX STRUCTURE-(FLARED WINGS)(SQUARE) • (2 SHEETS)(INCL 706.35) *
	703.73C	CONCRETE TRIPLE BOX STRUCTURE-(FLARED WINGS)(SKEWED) (2 SHEETS)(INCL 706.35) *
	703.74C	CONCRETE TRIPLE BOX STRUCTURE-CUT SECTIONS (INCL 706.35) *
	703.76B	CONCRETE TRIPLE BOX STRUCTURE REINFORCEMENT-H20 OR HS20 LOADING (5 SHEETS)
	706.30E	REINFORCING BAR SUPPORTS
	706.35E	BAR SUPPORTS FOR CONCRETE REINFORCEMENT
	712.40E	STEEL DAMS FOR BRIDGES (6" CHANNEL)
	725.31C	METAL CURTAIN WALL AND METAL INLETS
✓	726.30C	CULVERT INSTALLATION METHODS
	731.00S	PRECAST MANHOLES (ALSO INCL 614.30) *
✓	731.10H	PRECAST DROP INLETS (4 SHTS)(ALSO INCL 614.30 & 614.10) *

✓	NO.	DESCRIPTION
✓	732.00L	FLARED END SECTION (2 SHEETS)
	806.02A	STAPLE PLACEMENT FOR PLASTIC NETTING
		HIGHWAY LIGHTING
	901.00P	POLES & APPURTENANCES-30' (3 SHEETS) *
	901.01U	POLES & APPURTENANCES-45' (3 SHEETS) *
	901.05A	CONTROL PANEL CABINET DETAILS (2 SHEETS)(SEE NOTE)
	901.12C	POLE MOUNT CONT STA-SECONDARY SERV-480 V MULTI CIR (NOT METERED)
	901.15E	POLE MOUNT CONT STA-SEC SERV-120,240, & 480 V MULTI CIR
	901.16D	POLE MOUNT CONT STA-SEC SERV-480 V MULTI CIR (METERED)
	901.18D	POLE MOUNT CONT STA-SEC SERV-120/240 V MULTI CIR
	901.19D	POLE MOUNT CONT STA-SEC SERV-240 V MULTI CIR (NOT METERED)
	901.20D	POLE MOUNT CONT STA-SEC SERV-120/240 V MULTI CIR (SIG METERED)
	901.22E	POLE MOUNT CONT STA-SEC SERV-120/240 & 480 V MULTI CIR (BOTH METERED)
	901.23E	POLE MOUNT CONT STA-SEC SERV-240 V MULTI CIR (METERED)
	901.24D	POLE MOUNT CONT STA-SEC SERV-240 V MULTI CIR (LIGHTS & SIGNALS-BOTH METERED)
	901.25D	BASE MOUNT CONT STA-SEC SERV-120/240 V MULTI CIR
		NOTE: ALSO INCLUDE 901.05 WITH 901.12 THROUGH 901.25 EXCEPT 901.18
		TRAFFIC SIGNALS
	902.00E	SIGNAL HEADS, LENSES AND MOUNTING
	902.10J	PULL BOXES, CONTROLLERS, COND LOCATION
	902.15D	POWER SUPPLY ASSEMBLY
	902.21B	TELEPHONE INTERCONNECT
	902.30G	CONCRETE BASES
	902.40H	TUBULAR STEEL POST *
	902.50E	DETECTORS
	902.60E	SPAN WIRE DETAILS-STEEL POST
	902.70B	SPAN WIRE DETAILS-WOOD POLE
	902.80A	TRAFFIC SIGNAL SYMBOLS
		HIGHWAY SIGNING
✓	903.01C	ALPHABETS (2 SHEETS)
	903.02W	HIGHWAY SIGNING (7 SHEETS)
	903.03AK	SIGN MOUNTING DETAILS (5 SHEETS) *
	903.04D	WEIGH STATION SIGNING
	903.05C	TUBULAR SPAN SUPPORT-ONE TUBE, TYPE S
	903.06C	TUBULAR SPAN SUPPORT-TWO TUBE, TYPE S
	903.07C	TUBULAR CANTILEVER SUPPORTS, TYPE C
	903.08C	TUBULAR BUTTERFLY SUPPORTS, TYPE B
	903.09C	LIGHTING SUPPORT BRACKET
	903.10T	SIGN TRUSSES-OVERHEAD ALUMINUM (8 SHEETS)(INCL 903.03)
	903.12N	SIGN TRUSSES-BUTTERFLY & CANTILEVER-STEEL (7 SHEETS) (INCL 903.03)
	903.60S	SIGN TRUSSES-OVERHEAD STEEL (7 SHEETS)(INCL 903.03)

NOTES:
PLANS FOR THIS PROJECT WERE DEVELOPED USING DRAWINGS FROM THIS INDEX

* REVISED SINCE JANUARY 1988

SP-1

FINAL PLANS

DESIGN DESIGNATION

ADT 1978 1350
ADT 1998 1850

D 60%
T 4%
V 60 M.P.H.

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED

STATE HIGHWAY

FEDERAL AID PROJECT

STE. GENEVIEVE COUNTY

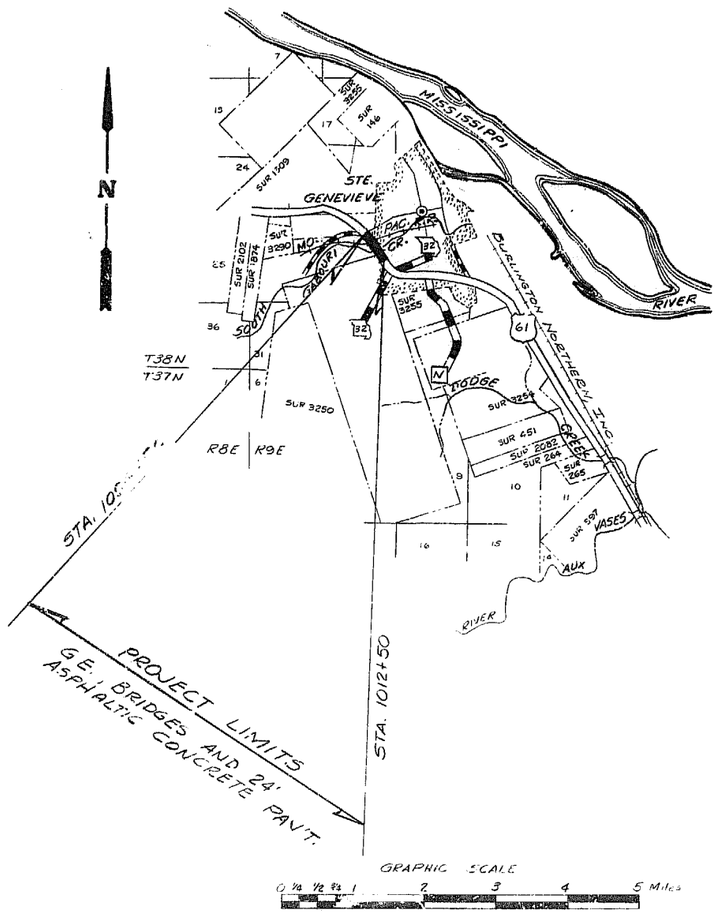
RECEIVED
MAY 1 1981

COUNTY STE. GENEVIEVE
ROUTE 61
PROJECT GE-3A6-1(85) Sec. A

JOB NO. 6-P-61-317

INDEX OF SHEETS

DESCRIPTION	SHEET NO.
TITLE SHEET	1
TYPICAL SECTIONS (1 SHEET)	2
SUMMARY (1 SHEET)	2-A
SUMMARY (2 SHEETS)	2-B
PLAN-PROFILE	3
REFERENCE POINTS	
SPECIAL SHEETS	
LIGHTING	
SIGNALS	
SIGNING	
CULVERT SECTIONS	6
BRIDGE DRAWINGS	7 - 11
STANDARD PLANS INDEX	
CROSS SECTIONS	4-5
COMPUTER DATA	



LENGTH OF PROJECT

END OF PROJECT STA. 1012+50.0
BEGINNING OF PROJECT STA. 1004+50.0

APPARENT LENGTH 800.0 FEET

EQUATIONS AND EXCEPTIONS
NONE

TOTAL CORRECTIONS 0.0 FEET
NET LENGTH OF PROJECT 800.0 FEET

STATE LENGTH 0.152 MILES

FEDERAL LENGTH 0.152 MILES

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUBMITTED

CHIEF ENGINEER DATE

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

APPROVED

DIVISION ENGINEER DATE

CONVENTIONAL SIGNS
(USED IN PLANS)

- BUILDINGS AND STRUCTURES
- GUARD RAIL
- CONCRETE RIGHT-OF-WAY MARKER
- STEEL RIGHT-OF-WAY MARKER
- FENCE
  - CHAIN LINK
  - WOVEN WIRE
  - GATE
- UTILITIES
  - TELEPHONE
  - POWER
  - GAS
  - WATER

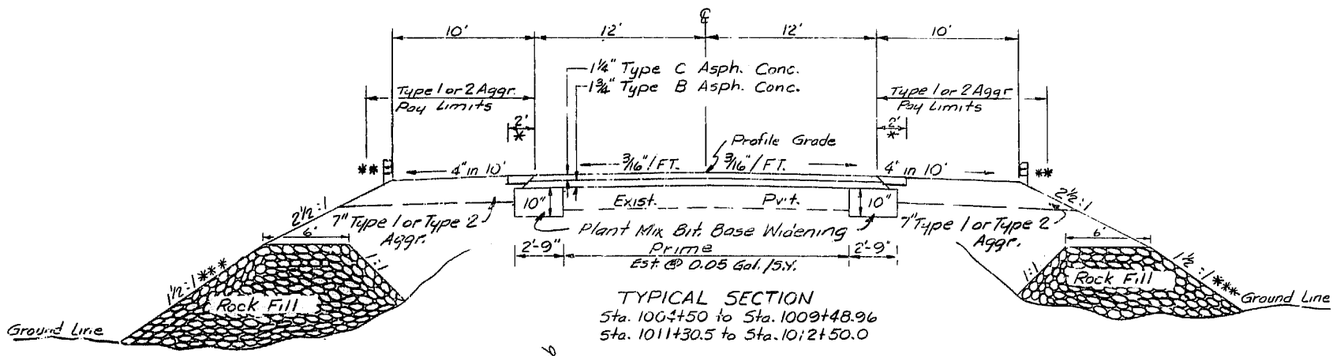
NOTE: DASHED OR OPEN SYMBOL INDICATES EXISTING FEATURE

TITLE SHEET LEGEND

FHWA PLANS

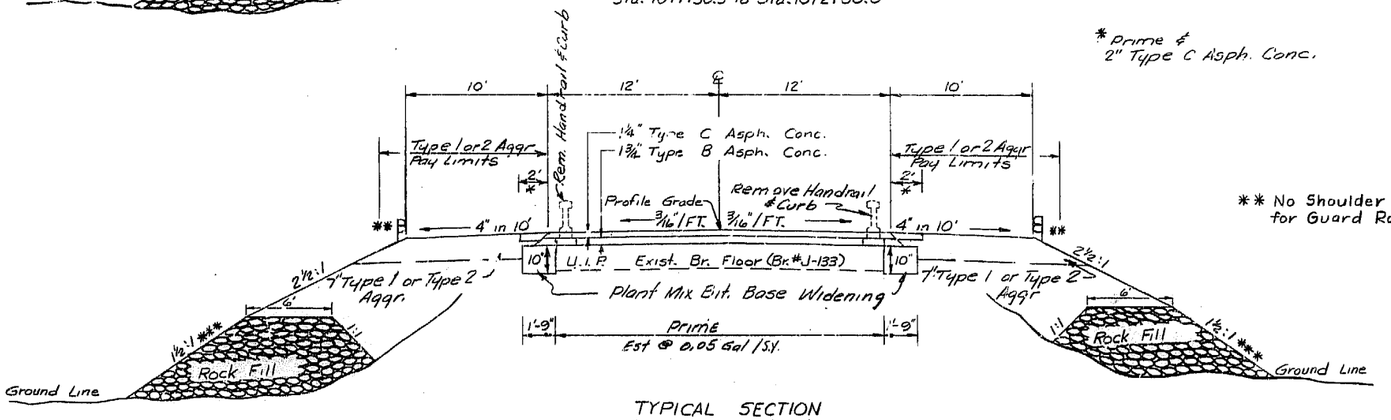
FED. ROAD DIV. NO.	STATE	JOB NO.	SHEET NO.
7	MO.	PROJECT NO. GR-GRG-785(1) Sec. A	2
DIST. NO.	COUNTY	ROUTE	SEC.
6	STE. GENEVIEVE	61	A

JOB NO. 6.P-61-317



TYPICAL SECTION
Sta. 1004+50 to Sta. 1009+48.96
Sta. 1011+30.5 to Sta. 1012+50.0

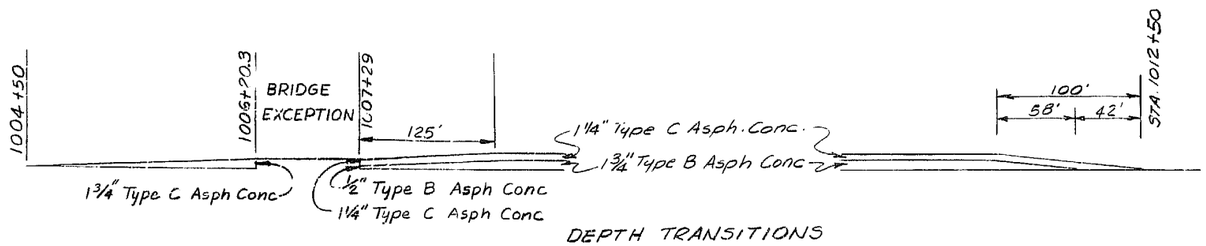
* Prime & 2" Type C Asph. Conc.



TYPICAL SECTION
Sta. 1009+48.96 to Sta. 1011+30.5

** No Shoulder Widening Required for Guard Rail

*** Use 1:1 slope where necessary to stay within existing right-of-way. See cross sections for details.



DEPTH TRANSITIONS

TYPICAL SECTION

FOR
44 FT. ROADBED
AND
24 FT. ASPHALTIC CONCRETE
RESURFACING

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION

SUMMARY OF QUANTITIES

FED. ROAD PROJ. NO.	STATE	JOB NO G-F-61-317
7	MO.	PROJECT NO GR-GRG-785(1) 2A Sec A
		COUNTY
6		STE. GENEVIEVE 61

ITEM	DESCRIPTION	UNIT	QUANTITY

ITEM	DESCRIPTION	UNIT	QUANTITY
202-20.10	REMOVAL OF IMPROVEMENTS	LUMP SUM	1
203-50.00	UNCLASSIFIED EXCAVATION	CU YD	16,512
203-60.00	COMPACTING EMBANKMENT	CU YD	13,411
205-10.00	OVERHAUL (STATION)	STA YD	1,184,038
301-30.21	ASPHALT CEMENT (BASE WIDENING) 85-100 OR AC-10	TON	5.3
301-40.00	MINERAL AGGREGATE (BASE WIDENING)	TON	119
304-00.73	TYPE 1 OR TYPE 2 AGGREGATE FOR BASE (7 IN. THICK)	SQ YD	1346
403-10.21	ASPHALT CEMENT (ASPHALTIC CONCRETE) 85-100 OR AC-10	TON	20.1
403-70.00	MINERAL AGGREGATE (ASPHALTIC CONCRETE) (TYPE B MIX)	TON	315
403-80.00	MINERAL AGGREGATE (ASPHALTIC CONCRETE) (TYPE C MIX)	TON	126
408-10.10	PRIME-LIQUID ASPHALT RC 70 OR MC 30	GALLON	70
601-10.00	FIELD LABORATORIES	LUMP SUM	1
606-10.10	GUARD RAIL TYPE A	LIN FT	1,075
606-22.00	BRIDGE ANCHOR SECTION (SAFETY BARRIER CURB)	EACH	3
606-30.00	TERMINAL SECTION	EACH	3
611-10.10	FURNISHING ROCK FILL	CU YD	3551
611-10.20	PLACING ROCK FILL	CU YD	3551
612-10.50	MOVABLE BARRICADES	EACH	3
612-30.05	CONSTRUCTION SIGNS	SQ FT	225
612-30.20	DRUMS	EACH	8
617-50.00	TEMPORARY TRAFFIC BARRIER	LIN FT	584
617-50.10	RELOCATING TEMPORARY TRAFFIC BARRIER	LIN FT	1168
618-10.00	MOBILIZATION	LUMP SUM	1
621-04.11	TEMPORARY PAVEMENT STRIPING, 4 IN., SOLID WHITE	100 FT	0
621-04.21	TEMPORARY PAVEMENT STRIPING, 4 IN., SOLID YELLOW	100 FT	60
621-10.00	PAVEMENT STRIPE REMOVAL	100 FT	0
725-10.18	18 IN. CORRUGATED GALVANIZED METAL PIPE	LIN FT	34
732-00.18	18 IN. FLARED END SECTION	EACH	2
802-40.00	TYPE 4 MULCH	ACRE	1.1
805-10.00	SEEDING	ACRE	1.1
902-94.00	TEMPORARY TRAFFIC SIGNALS	LUMP SUM	1
	BRIDGE DWG. NO. J-134R AT STA. 1006+20.26		
202-99.95	SPECIAL WORK	LUMP SUM	1
206-10.00	CLASS 1 EXCAVATION	CU YD	277
703-20.03	CLASS B CONCRETE (SUBSTR)	CU YD	139.8
703-42.06	CLASS B-2 CONCRETE (SUPSTR CONC BOX GIRDER)	CU YD	90.1
703-85.00	STRIP SEAL EXPANSION DEVICE	LIN FT	216

ITEM	DESCRIPTION	UNIT	QUANTITY
703-99.96	REPAIRING CONC. DECK	SQ. FT.	0
703-99.97	PLAIN NEOPRENE BEARING PADS (3/4 IN. THICK)	EACH	15
705-14.30	PRESTRESSED CONCRETE BOX GIRDER, 30 FT SPAN	EACH	6
705-14.35	PRESTRESSED CONCRETE BOX GIRDER, 35 FT SPAN	EACH	6
705-14.36	PRESTRESSED CONCRETE BOX GIRDER, 36 FT SPAN	EACH	5
706-10.60	REINFORCING STEEL (BRIDGES)	POUND	22,600
706-10.90	REINFORCING STEEL (EPOXY COATED)	POUND	5,190
709-99.95	CONCRETE WEARING SURFACE (Low Slump)	SQ. YD.	275
	BRIDGE DWG. NO. A-3958, AT STA. 1013+45.25		
202-99.95	REMOVAL OF BRIDGE RAIL	LIN FT	365
206-10.00	CLASS 3 EXCAVATION	CU YD	775
703-20.00	CLASS B CONCRETE (CULVERTS-BRIDGE)	CU YD	787.0
706-10.20	REINFORCING STEEL (CULVERTS-BRIDGE)	POUND	125,240
	Contingent Items.		
Cont 501.01	Modified Br. Anchor Sect	Each	1
Cont 501.02	Relocate Temp Traffic Signal	Each	1
Cont 502	Bridge Drawing No. J-134R at Sta 1006 + 20.26		
Cont 502.02	Test Holes	Lin Ft	67
Cont 502.03	Crevice Concrete	cu. Yd.	2.8
Cont 502.04	Class 1 Excavation (Below Plan)	Cu. Yd.	22
Cont 502.01	Add Thickness Low Slump	Lump Sum	1

SP-2B

FINAL PLANS

MISSOURI STATE HIGHWAY COMMISSION

JOB No. G-P-G1-317

SUMMARY OF QUANTITIES

Sheet 1 of 2

FED. ROAD DIVISION	STATE	PROJECT	SHEET NO.
5	MO.	GR-GEG-785(1) Sec A	2-B
DIST. NO.	COUNTY		ROUTE
6	STE GENEVIEVE		61

SEEDING AND MULCHING

Sheet No.	Seeding Ac.	Type 4 Mulch Ac.
3	1.1	1.1
Totals	1.1	1.1

GUARD RAIL TYPE A

Sheet No.	Station	Station	Loc.	Type A Lin. Ft.	Terminal Sec. each	Br. Anc. Sec. each	Modified Br. Anc. Sec. each	Remarks
3		1006+20.26	Rt	75.0	1	1		End of Br.
		1006+20.26	Lt	12.5	—	—	1	End of Br. 10' Radius, Include End Section
	1007+22.8	1012+47.8	Rt	475.0	1	1		End of Br.
	1307+36.2	1012+48.7	Lt	462.5	1	1		End of Br.
		Totals		1025.0	3	3	1	

ROCK FILL

Sheet No.	Station	Station	Loc.	Furnish Rock Fill C.Y.	Placing Rock Fill C.Y.	Remarks
3	1008+70	1012+50	Rt & Lt.	3551	3551	Toe of Fill
		Totals		3551	3551	

CULVERT PIPE

Sheet	Sta.	Loc.	CGMP 18" Dia.	Flared End Sec. 18"	Fill Ht. Ft.	Remarks
3	1006+07	℄	34	2	6	U/P 18"X41'C.M.P. Extend 8' Lt & 26' Rt Include 1-5° Bend
		Totals	34	2		

ENTRANCES

Sheet	Sta.	Loc.	Type 1 or 2 Aggr. CY	Remarks
3	1005+85	PE Lt	6	
		Total	6	(Paid for as 31 S.Y. of 7" Type 1 or 2 Aggr.)

TEMPORARY PAVEMENT STRIPING 4" SOLID YELLOW

Station	Station	Loc.	Per 100 Ft.	Remarks
927+50	1002+50	Lt.	17	No. Bound No. Passing
927+50	1002+50	Rt.	17	So. Bound No. Passing
1015+00	1028+00	Lt.	13	No. Bound No. Passing
1015+00	1028+00	Rt.	13	So. Bound No. Passing
		TOTAL	60	

TEMPORARY PAVEMENT STRIPING 4" SOLID WHITE

Sta.	Sta.	Loc.	Per 100 Ft.	Remarks
1002+50	1015+00	Lt.	0	Edge Line
1002+50	1015+00	Rt.	0	Edge Line
		TOTAL	0	

PAVEMENT STRIPE REMOVAL

Sta	Sta	Loc	Per 100 Ft	Remarks
1002+50	1015+00	℄	0	Exist. ℄ Stripe
1002+50	1015+00	Lt.	0	Edge Line
1002+50	1015+00	Rt.	0	Edge Line
		TOTAL	0	

TEMPORARY TRAFFIC SIGNALS

Lump Sum 1

COMPACTING EMBANKMENT 13,611 C.Y.

MOBILIZATION Lump Sum 1

FIELD LABORATORIES Lump Sum 1

ROADWAY EXCAVATION

Sheet No	Sta	Sta	C.Y.	Overhaul Sta. Yd.
3	1004+50	1012+50	C&T	1,184,038
	Borrow		16,445	
	TOTAL		16,512	1,184,038

REMOVAL OF IMPROVEMENTS

Description

Old Guard Rail at Bridge Ends 128 Lin. Ft.

FINAL PLANS

SP-2BS JAN 1, 1980

SUMMARY OF QUANTITIES

Sheet 2 of 2

FED ROAD DIV NO	STATE	JOB NO G-P-G1-317	SHEET NO
7	MO.	PROJECT NO	2B
DIST NO	COUNTY	ROUTE	SEC
6	STE. GENEVIEVE	61	A

SIGN	SIZE (INCHES)	AREA (SQ. FT.)	QUANTITY	TOTAL AREA (SQ. FT.)	QUANTITY RELOCATED	TOTAL RELOCATED AREA (SQ. FT.)	SIGN LEGEND
							WARNING SIGNS
W1-1L	30x30	6.25					TURN (SYMBOL LEFT ARROW)
W1-1R	30x30	6.25					TURN (SYMBOL RIGHT ARROW)
W1-2L	30x30	6.25					CURVE (SYMBOL LEFT ARROW)
W1-2R	30x30	6.25					CURVE (SYMBOL RIGHT ARROW)
W1-3L	30x30	6.25					REVERSE TURN (SYMBOL LEFT ARROW)
W1-3R	30x30	6.25					REVERSE TURN (SYMBOL RIGHT ARROW)
W1-4L	30x30	6.25					REVERSE CURVE (SYMBOL LEFT ARROW)
W1-4R	30x30	6.25					REVERSE CURVE (SYMBOL RIGHT ARROW)
W1-6	48x24	8.0	1 ✓	8.0 ✓			HORIZONTAL ARROW (SYMBOL)
W3-1	36x36	9.0					STOP AHEAD
W3-2	36x36	9.0					YIELD AHEAD
W3-3	36x36	9.0	2 ✓	18.0 ✓			SIGNAL AHEAD (SYMBOL)
W3-3X	24x18	3.0					SIGNAL AHEAD (PLAQUE)
W3-4	36x36	9.0					BE PREPARED TO STOP
W4-2L	36x36	9.0					PAVEMENT WIDTH TRANSITION (SYMBOL LEFT)
W4-2R	36x36	9.0					PAVEMENT WIDTH TRANSITION (SYMBOL RIGHT)
W5-1	36x36	9.0					ROAD NARROWS
W5-3	36x36	9.0	2 ✓	18.0 ✓			ONE LANE BRIDGE
W6-1	36x36	9.0					DIVIDED HIGHWAY (SYMBOL)
W6-1X	24x18	3.0					DIVIDED HIGHWAY (PLAQUE)
W6-2	36x36	9.0					DIVIDED HIGHWAY ENDS (SYMBOL)
W6-2X	24x18	3.0					DIVIDED HIGHWAY ENDS (PLAQUE)
W6-3	48x48	16.0	2 ✓	32.0 ✓			TWO WAY TRAFFIC (SYMBOL)
W6-3X	24x18	3.0					TWO WAY TRAFFIC (PLAQUE)
W7-1	30x30	6.25					HILL (SYMBOL)
W7-1X	24x18	3.0					HILL (PLAQUE)
W8-1	30x30	6.25					BUMP
W8-2	30x30	6.25					DIP
W8-3	30x30	6.25					PAVEMENT ENDS
W8-3a	30x30	6.25					PAVEMENT ENDS (SYMBOL)
W8-4	30x30	6.25					SOFT SHOULDER
W8-5	30x30	6.25					SLIPPERY WHEN WET (SYMBOL)
W8-5X	24x18	3.0					SLIPPERY WHEN WET (PLAQUE)
W8-6	30x30	6.25					TRUCK CROSSING
W8-7	30x30	6.25					LOOSE GRAVEL
W8-9	30x30	6.25					LOW SHOULDER
W9-1L	36x36	9.0					LEFT LANE ENDS
W9-1R	36x36	9.0					RIGHT LANE ENDS
W9-2L	36x36	9.0					LANE ENDS MERGE LEFT
W9-2R	36x36	9.0					LANE ENDS MERGE RIGHT
W10-1	36 DIA.	7.07					RAILROAD CROSSING
W12-1	24x24	4.0					DOUBLE DOWN ARROW (SYMBOL)
W12-2	36x36	9.0					LOW CLEARANCE (SYMBOL)
W12-2X	24x18	3.0					LOW CLEARANCE (PLAQUE)
W12-3a	VAR. x 24						OVERHEAD LOW CLEARANCE (FEET)
W12-3b	VAR. x 24						OVERHEAD LOW CLEARANCE (INCHES)
W13-1	18x18	2.25					ADVISORY SPEED PLATE
W13-1a	24x24	4.0					ADVISORY SPEED PLATE
W20-1	48x48	16.0					ROAD CONSTRUCTION 1500 FT.
W20-1b	48x48	16.0					ROAD CONSTRUCTION 500 FT.
W20-1c	48x48	16.0	4 ✓	64.0 ✓			ROAD CONSTRUCTION AHEAD
W20-2	48x48	16.0					DETOUR 1500 FT.
W20-2a	48x48	16.0					DETOUR 1000 FT.
W20-3	48x48	16.0					ROAD CLOSED 1000 FT.
W20-3b	48x48	16.0					ROAD CLOSED 500 FT.
W20-3c	48x48	16.0					ROAD CLOSED AHEAD
W20-4	48x48	16.0					ONE LANE ROAD AHEAD
W20-5	48x48	16.0					RIGHT (LEFT) LANE CLOSED AHEAD
W20-7	36x36	9.0					FLAGMAN 500 FT.
W20-7a	36x36	9.0					FLAGMAN 1000 FT.
W20-7b	36x36	9.0					FLAGMAN 1500 FT.
W20-7c	36x36	9.0					FLAGMAN AHEAD
W20-7d	36x36	9.0					FLAGMAN AHEAD (SYMBOL)
W20-9	36x36	9.0	2 ✓	18.0 ✓			OPEN TRENCH
W21-2	30x30	6.25					FRESH OIL
W21-5	36x36	9.0					SHOULDER WORK AHEAD
W21-7	36x36	9.0					SAND BLASTING
W22-1	48x48	16.0					BLASTING ZONE 1000 FT.
W22-2	42x36	10.5					TURN OFF 2-WAY RADIO
W22-3	42x36	10.5					END BLASTING ZONE
W25-1	24x6	1.0					1000 FT. - 1500 FT. (BACK TO BACK DISTANCE PLAQUE)
W25-2	24x6	1.0	2 ✓	2.0 ✓			200 FT. - 500 FT. (BACK TO BACK DISTANCE PLAQUE)
W25-3	21x9	1.31					LEFT (PLAQUE - Used with W20-5)
							REGULATORY SIGNS
R1-1	30x30	5.18					STOP
R1-2	36x36x36	3.9					YIELD
R1-2x	36x36	9.0					TO ONCOMING TRAFFIC (PLAQUE)
R1-3	20x9	1.25					4-WAY (PLAQUE)
R1-5	20x9	1.25					3-WAY (PLAQUE)
R2-1	24x30	5.0	2 ✓	10.0 ✓			SPEED LIMIT --- 2@ 30
R2-5a	30x42	8.75	2 ✓	17.5 ✓			REDUCED SPEED AHEAD
R3-1	24x24	4.0					NO RIGHT TURN (SYMBOL)
R3-1x	24x18	3.0					NO RIGHT TURN (PLAQUE)
R3-2	24x24	4.0	1 ✓	4.0 ✓			NO LEFT TURN (SYMBOL)
R3-2x	24x18	3.0	1 ✓	3.0 ✓			NO LEFT TURN (PLAQUE)
R3-3	24x24	4.0					NO TURNS
R3-4	24x24	4.0					NO U-TURN (SYMBOL)
R3-4x	24x18	3.0					NO U-TURN (PLAQUE)
R3-7R	30x30	6.25					RIGHT LANE MUST TURN RIGHT
R3-7L	30x30	6.25					LEFT LANE MUST TURN LEFT
R4-1	24x30	5.0	2 ✓	10.0 ✓			DO NOT PASS
R4-2	24x30	5.0					PASS WITH CARE
R4-7	24x30	5.0					KEEP RIGHT (SYMBOL)
R4-7x	24x18	3.0					KEEP RIGHT (PLAQUE)
R5-1	30x30	6.25					DO NOT ENTER
R5-9	36x24	6.0					WRONG WAY
R6-1L	36x12	3.0					ONE WAY ARROW (LEFT)
R6-1R	36x12	3.0					ONE WAY ARROW (RIGHT)
R6-2L	18x24	3.0					ONE WAY (LEFT)
R6-2R	18x24	3.0					ONE WAY (RIGHT)
R11-2	48x30	10.0					ROAD CLOSED
R11-3	60x30	12.5					ROAD CLOSED --- MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60x30	12.5					ROAD CLOSED TO THRU TRAFFIC
							GUIDE SIGNS
G20-1	60x36	15.0					ROAD CONSTRUCTION NEXT --- MILES
G20-2	60x24	10.0	2 ✓	20.0 ✓			END CONSTRUCTION
G20-4	36x18	4.5					PILOT CAR FOLLOW ME
M4-8	24x12	2.0					DETOUR (PLAQUE)
M4-9R	30x24	5.0					DETOUR (RIGHT ARROW)
M4-9L	30x24	5.0					DETOUR (LEFT ARROW)
M4-10R	48x18	6.0					DETOUR (ARROW RIGHT)
M4-10L	48x18	6.0					DETOUR (ARROW LEFT)
M5-1R	21x15	2.19					ADVANCE RIGHT TURN ARROW
M5-1L	21x15	2.19					ADVANCE LEFT TURN ARROW

612-30.05 CONSTRUCTION SIGNS TOTAL (SQ. FT.)	224.5	
612-30.10 RELOCATED SIGNS TOTAL (SQ. FT.)		

ITEM NUMBER	SIZE (INCHES)	TOTAL QUANTITY	DESCRIPTION
612-30.20	36x18	8	DRUM
612-30.35	One Rail		TYPE I BARRICADE
	8x24		
612-30.36	Two Rails		TYPE II BARRICADE
	8x24		
612-30.37	Three Rails		TYPE III BARRICADE
	8x48		
612-30.40	36x72		FLASHING OR SEQUENTIAL ARROW PANEL
612-30.45	18x18		TYPE I OBJECT MARKER
612-30.46	6x12		TYPE II OBJECT MARKER
612-30.47	8x24		TYPE III OBJECT MARKER
612-30.50	8x8		FLASHING ELECTRIC LIGHT
612-30.51			WARNING LIGHT TYPE A
612-30.52			WARNING LIGHT TYPE B
612-30.53			WARNING LIGHT TYPE C
612-10.30		3	MOVABLE BARRICADES
617-50.00		584	TEMPORARY TRAFFIC BARRIER
902-94.00		1	TEMPORARY TRAFFIC SIGNALS
617-50.10		1168	RELOC. TEMP. TRAFFIC BARRIER

FED. ROAD DIST. NO.	STATE	JOB NO. 6-P-161-317
7	MO.	PROJECT NO. GR-GRS-785(1)-Sec A
DIST. NO.		COUNTY
6	STE GENEVIEVE	61

T 38 N, R 9 E

FRAG. SEC. 29

STE. GENEVIEVE, MO.
POP. 4714

NE Cor. USPS 270 T 38 N, R 9 E

USPS 272

USPS 88

USPS 89

USPS 270

USPS 271

USPS 272

USPS 88

USPS 89

USPS 89

USPS 90

1222

MO 61

NORBERT B. DONZE

P.I. 1026+00
Δ 47°20' Lt.
D 2°
T 1255.7'
L 2366.7'
R 286.49'

P.C. 1013+44.3

P.C. 1001+29.46

P.O.T. Sta. 1001+29.46

80 d Spike

P.P.

6" Sassafras

83.17'

6.12'

4" Sassafras

Sta. Gene. Ready Mix

BLAIN AVE.

MARKET ST.

CITY LIMITS

Exist. R/W

1002+09 322'

5°-58'

D = 1° 16'

S 36°58'E

70'

65'

935

940

930

1000

1005

1010

1015

1020

P.C. 1001+29.46

P.T. 340+25.8 Sk
= 998+50.2 Ahead

P.P.

24.72'

Conc. Nail & Washer

8.8.22'

8.8.72'

12" Elm

6" Wild Cherry

P.C. Sta. 1013+44.3

CHRISTINE CABRAL

G. GENOVIC. CABRAL

GASCONADE UTILITIES CO.

Valve Buried 3' 30' Lt 1017+75

CREEK

Rock Fill

SOUTH GABOUEL

MISSISSIPPI LIME COMPANY OF MISSOURI

STA. 1004+50

STA. 1012+50

Exist. R.R. R/W

Exist. R.R. R/W

MISSOURI-PACIFIC R.R.

107 U/P 18'6"/10 & Extend R/W & Lt

Sta. 1006+85.40 Rke. 61' 185+51 R.R.

Sta. 1006+20.26 Existing R.R. Bridge 1@35', 1@36' & 1@30' Deck Girder Sk. 23° L.A. 20' Roadway Br. No. J-134 U.I.P. & Widened To 44' Rdwy Br. No. J-134 R

Sta. 1009+48.96 Existing Bridge 2@35, 1@40', 2@30' Deck Girder Square Br. No. J-133 D.A. 5.6 Sq. Mi. U.I.P & Removed Curbs & Handrails

Sta 1010+49.25 Builded 3(12'X10.5') Conc. Box Culv. Square Br. No. A-3958 44' Shldr. to Shldr. D.A. 5.6 Sq. Mi. Q50 3400 c.f.s.

Note: No direct payment made for Clearing and Grubbing.

BEGIN PROJECT GR-GRS-785(1) Sec A
A point approx. 260' W. & 96' S. of the NE Cor of USPS 270, T38N, R9E.

END PROJECT GR-GRS-785(1) Sec A
A point approx. 20' W. & 225' S. of the SW Cor of USPS 272, T38N-R9E

MISSISSIPPI LIME CO. OF MISSOURI (5)

T 38 N, R 9 E

Unclassified Exc.	67	C.Y.
Unclassified Exc. (Borrow)	16445	C.Y.
Fill	13611	C.Y.

+225 Fill

+290 Cut

D.H.W. 413.5

L.F.L. 403.6

R.F.L. 404.4

M.S.L. DATUM

BM #3 Elev. 431.98
Chiseled □ on N.E. Cor. Conc. Base Bent #3 Br. #J-134 over R.R. Tracks Elev.

BM #5 ELEV. 459.52
Bolt in top H.W. End post Bridge # J-134.2 Sta. 1006+20.26

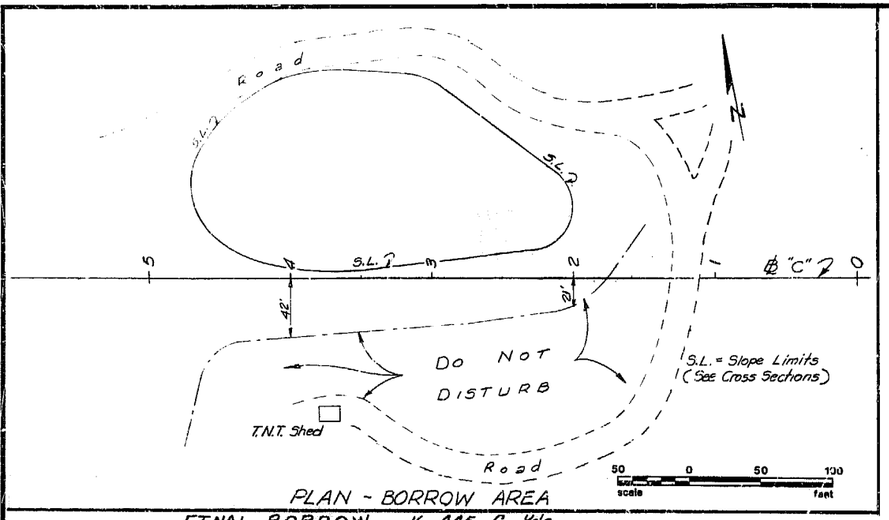
470 460 450 440 430 420 410 400

1000 1 2 3 4 1005 6 7 8 9 1010 1 2 3 4 1015 6 7 8 9

SPECIAL PLANS

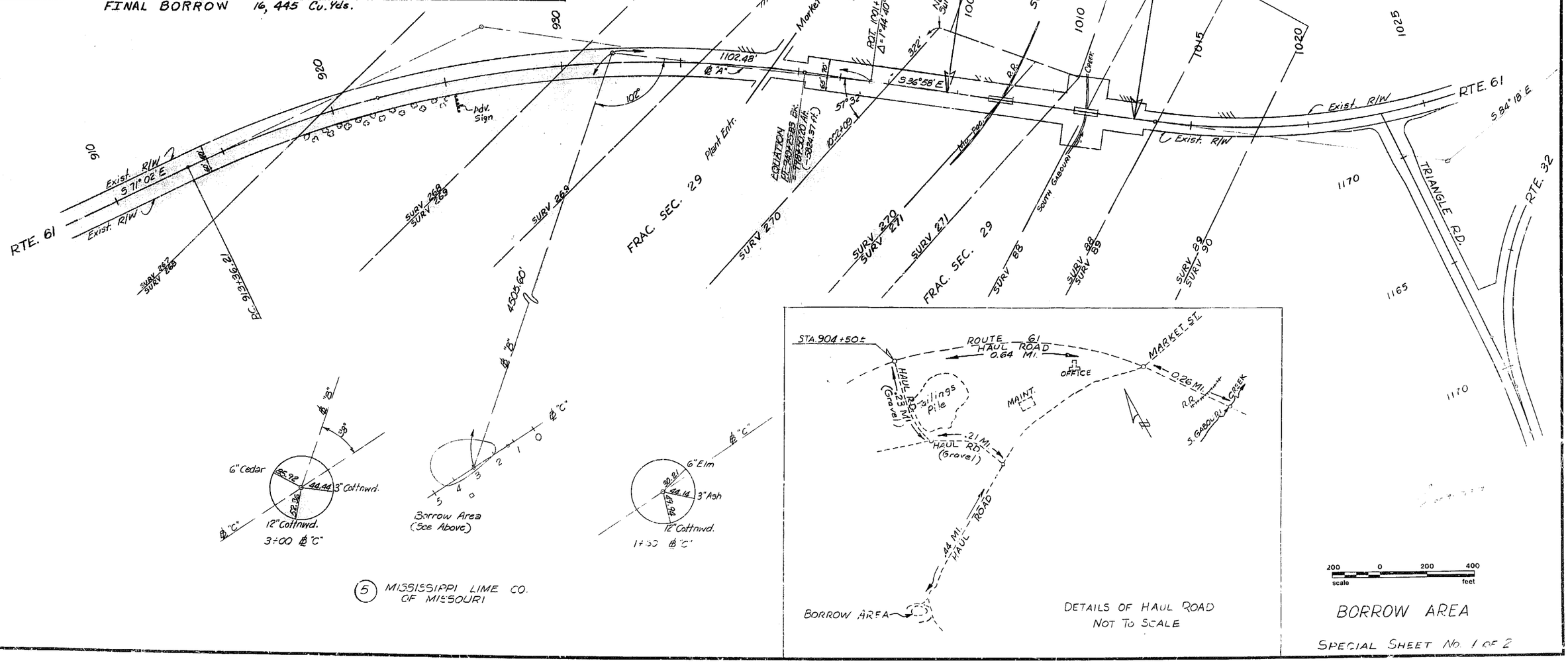
FED. ROAD DIV. NO.	STATE	JOB NO. 6-P-61-317	SHEET NO.
7	MO.	PROJ. NO. GR-GRG-875(1) Sec 2	4
DIST. NO.	COUNTY	ROUTE	SEC
6	STE. GENEVIEVE	61	A

CITY OF STE. GENEVIEVE



PLAN - BORROW AREA

FINAL BORROW 16,445 Cu. Yds.



(5) MISSISSIPPI LIME CO. OF MISSOURI

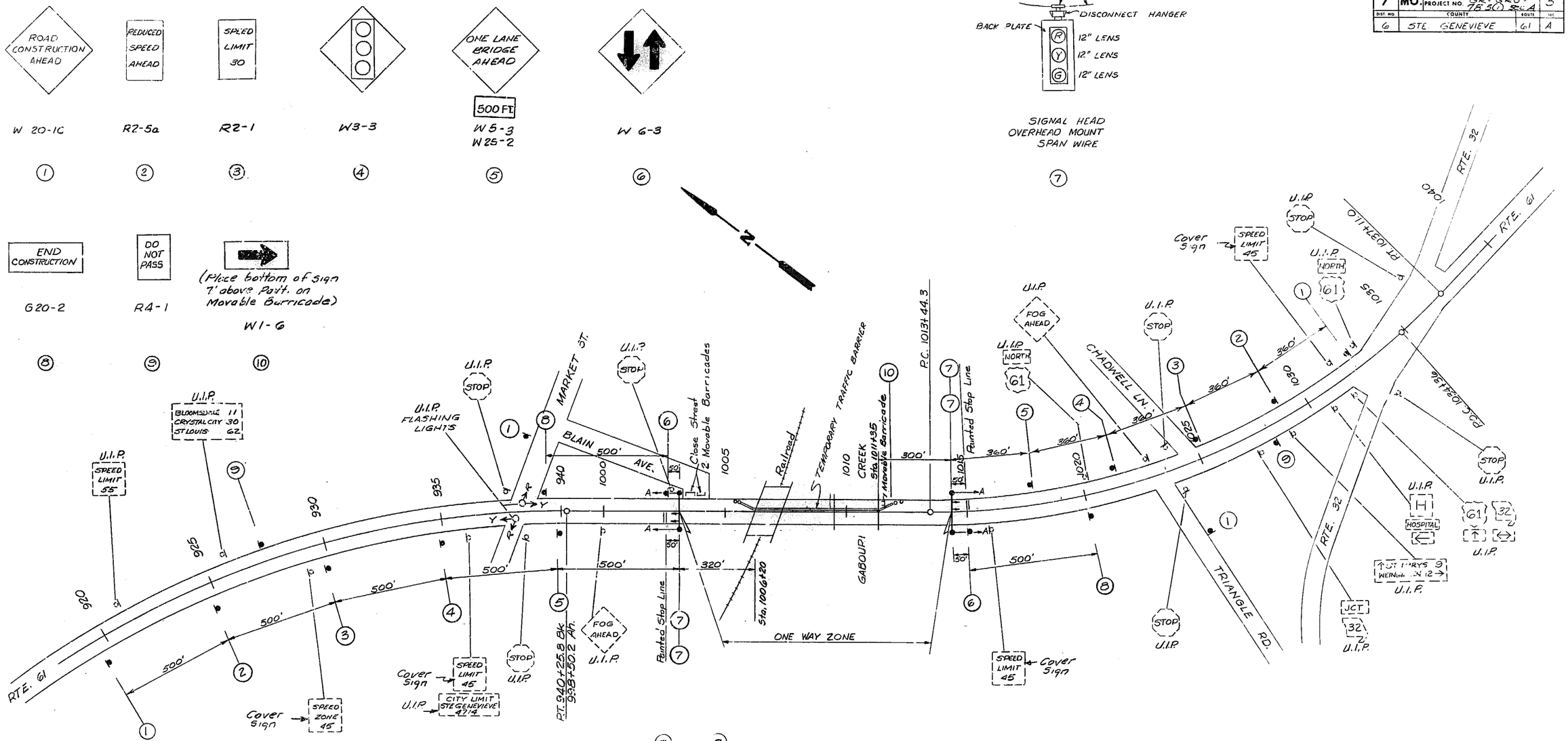
DETAILS OF HAUL ROAD
NOT TO SCALE

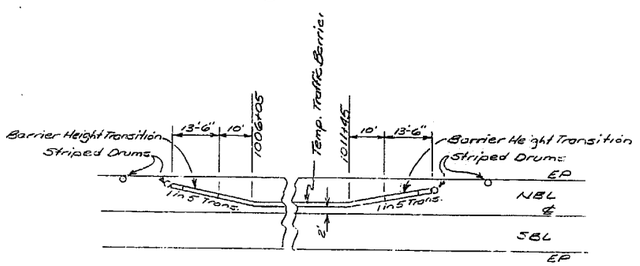
200 0 200 400
scale feet

BORROW AREA

SPECIAL SHEET NO. 1 OF 2

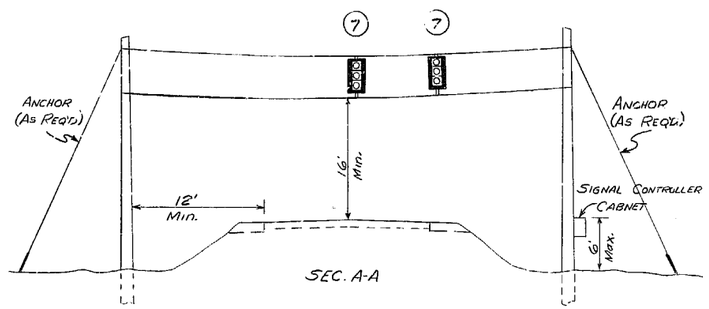
FED. ROAD DIV. NO.	STATE	JOB NO. 6-P-61-317	SHEET NO.
7	MO.	PROJECT NO. GR-GRG-78.5(1) Sec. A	5
DIST. NO.	COUNTY	ROUTE	SEC.
6	STE. GENEVIEVE	61	A





TEMPORARY TRAFFIC BARRIER

Drums and Temporary Traffic Barrier was reversed during construction operations on opposite side of bridges.



SPAN WIRE SIGNAL ARRANGEMENT

NOTE: ACTUAL LOCATION OF SIGNALS AND SIGNS WAS DETERMINED BY THE ENGINEER

200 0 200 400
scale feet

TRAFFIC CONTROL PLAN AND TEMPORARY TRAFFIC SIGNALS

SPECIAL SHEET NO. 2 of 2

FINAL PLANS

SP-2
APRIL 1981

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION
STANDARD PLANS

FED.ROAD DIVISION		PROJECT	SHEET NO
7	MO.	SR-GRG-785(1) SEC A	28
DIST.NO		COUNTY	ROUTE
6		STE. GENEVIEVE	61

Job No. G-P-21-317

✓	NO.	DESCRIPTION
✓	203.00D	EXCAVATION & EMBANKMENT
	203.02B	UNDERGRADING
	203.10	TABULATED EARTHWORK & SECTION DATA
	203.20A	SUPERELEVATION SPIRALS & WIDENING (UNDIVIDED)
	203.21A	SUPERELEVATION SPIRALS & WIDENING (DIVIDED)
	203.30A	ENTRANCES & APPROACHES (LESS THAN 400 ADT)
	203.31B	ENTRANCES & APPROACHES (GREATER THAN 400 ADT - NO SAFETY ZONE)
	203.32C	ENTRANCES & APPROACHES (GREATER THAN 400 ADT - SAFETY ZONE)
	203.35	MAILBOX TURNOUTS
	203.40D	TYPICAL DETAILS-RAMPS FOR INTERCHANGES (NO SAFETY ZONE)
	203.41D	TYPICAL DETAILS-RAMPS FOR INTERCHANGES (SAFETY ZONE)
	203.50H	TYPICAL CROSS-OVERS (DIVIDED HIGHWAYS)
	204.00A	EMBANKMENT CONTROL MEASURING DEVICES
	502.00F	CONCRETE PAVEMENT APPURTENANCES
	502.10D	DOWEL SUPPORTING UNITS
	502.20	CONCRETE APPROACH SLABS TO RAILROAD CROSSINGS
	503.00G	CONCRETE APPROACH SLABS TO BRIDGES (ALSO INCLUDE 502.00)
	602.00A	RIGHT-OF-WAY & DRAIN MARKERS
	604.05	PIPE CULVERT HEADWALLS - TYPE S
	604.10A	HEADWALL-WITH ENERGY DISSIPATOR - 18"
	604.11A	HEADWALL-WITH ENERGY DISSIPATOR - 24"
	604.12A	HEADWALL-WITH ENERGY DISSIPATOR - 30"
	604.13A	HEADWALL-WITH ENERGY DISSIPATOR - 36"
	604.14A	HEADWALL-WITH ENERGY DISSIPATOR - 42"
	604.15A	HEADWALL-WITH ENERGY DISSIPATOR - 48"
	604.20A	DROP INLET TYPE B
	604.21	DROP INLET TYPE C
	604.22	DROP INLET - TYPE D
	604.23	DROP INLET - TYPE E
	604.24	DROP INLET - TYPE EE
	604.25	DROP INLET - TYPE F
	604.26A	DROP INLET - TYPE G
	604.27A	DROP INLET - TYPE S (3 SHEETS)
	604.28B	DROP INLET - TYPE T (ALSO INCLUDE 614.30)
	604.29A	DROP INLET - TYPE X
	604.30E	CONCRETE MANHOLES (ALSO INCLUDE 614.30)
	604.40C	PIPE COLLARS
	605.10A	CLASS A UNDERDRAINS
✓	606.00M	GUARD RAIL (2 SHEETS)
	606.20E	BRIDGE ANCHOR SECTION (BRUSH CURB)(ALSO INCLUDE 606.00)
	606.21C	BRIDGE ANCHOR SECTION - CURB TYPE (ALSO INCLUDE 606.00)
✓	606.22B	BRIDGE ANCHOR SECTION (SAFETY BARRIER CURB)(INCLUDE 606.00)
✓	606.30C	TERMINAL SECTION (ALSO INCLUDE 606.00)
	606.40A	GUARD CABLE
	607.10M	CHAIN LINK FENCE
	607.11A	CHAIN LINK FENCE FOR RETAINING WALLS
	607.20D	WOVEN WIRE FENCE (ALSO INCLUDE 607.10)

✓	NO.	DESCRIPTION
	608.00A	PAVED APPROACHES
	608.10E	CONCRETE SIDEWALK & WHEELCHAIR RAMPS
	608.20A	CONCRETE STEPS
	609.00F	CONCRETE CURB - CURB & GUTTER - GUTTER
	609.15A	PAVED DITCHES
	609.40D	DRAIN BASIN, SHLDR. PAVING & FILL SLOPE AT BR. ENDS
	609.60A	DITCH LINER
	609.70A	ROCK LINING FOR CULVERT OUTLETS
	610.20C	BRICK MANHOLES (ALSO INCLUDE 614.30)
	611.60A	CONCRETE SLOPE PROTECTION
✓	612.10J	BARRICADES AND FLASHER SIGNS
✓	612.30	TRAFFIC CONTROL DEVICES (2 SHEETS) (ALSO INCLUDE 903.00)
	614.10G	CURB INLETS, GRATES & BEARING PLATES
	614.30B	MANHOLE FRAMES & COVERS
	615.00	OFFICE FOR ENGINEER
✓	617.00P	CONCRETE MEDIAN BARRIER (3 SHEETS)
	702.01D	16" CONCRETE PILES (APPROVED TYPES) (2 SHEETS)
	702.02A	CAST-IN-PLACE CONCRETE PILES (APPROVED TYPES)
	703.15C	CONCRETE BOX CULVERTS, H15 LOADING (3 SHEETS) (INCL. 706.35)
	703.16B	CONCRETE BOX CULVERTS, H15 LOADING (3 SHEETS) (FLARED WINGS) (INCL. 706.35)
	703.20C	CONCRETE BOX CULVERTS, HS20 LOADING (3 SHEETS) (INCL. 706.35)
	703.21B	CONCRETE BOX CULVERTS, HS20 LOADING (3 SHEETS) (FLARED WINGS) (INCL. 706.35)
	703.24D	CONCRETE BOX CULVERTS, SKEW DATA (703.15, 703.20, 703.30) (INCL. 706.35)
	703.25C	CONCRETE BOX CULVERTS SKEW DATA (703.16 & 703.21) (3 SHEETS) (FLARED WINGS) (INCL. 706.35)
	703.30B	CONCRETE BOX CULVERTS, 4' SPANS & LESS - ALL LOADING (INCL. 706.35)
	703.35B	CONCRETE BOX CULVERTS, CUTTING DETAILS (STRAIGHT WINGS) (INCL. 706.35)
	703.36A	CONCRETE BOX CULVERTS, CUTTING DETAILS (FLARED WINGS) (INCL. 706.35)
	703.50C	CONCRETE DOUBLE BOX STRUCTURE - SQUARE (INCL. 706.35)
	703.51B	CONCRETE DOUBLE BOX STRUCTURE - SKEWED (INCL. 706.35)
	703.52A	CONCRETE DOUBLE BOX STRUCTURE - CUT SECTIONS (INCL. 706.35)
	703.53B	DOUBLE BOX STRUCTURE TOP SLAB REINF. H15 LOADING (6 SHEETS)
	703.54B	DOUBLE BOX STRUCTURE TOP SLAB REINF. H20 OR HS20 LOADING (6 SHEETS)
	703.55	CONCRETE DOUBLE BOX STRUCTURE (FLARED WINGS) SQUARE (INCL. 706.35)
	703.56	CONCRETE DOUBLE BOX STRUCTURE (FLARED WINGS) SKEWED (INCL. 706.35)
	703.60A	CONCRETE BOX STRUCTURE - PIPE INLET
✓	706.30C	REINFORCING BAR SUPPORTS
✓	706.35B	BAR SUPPORTS FOR CONCRETE REINFORCEMENT
	712.40A	STEEL DAMS FOR BRIDGES (6" CHANNEL)
	712.41A	STEEL DAMS FOR BRIDGES (4" CHANNEL)
	712.42	FILLET WELDED TEE JOINT TEST
	717.11B	TIMBER BRIDGES - 11' ROADWAY
	717.15B	TIMBER BRIDGES - 15' ROADWAY
	717.20	TIMBER BRIDGES, 20' ROADWAY (9' to 19' SPANS)
	725.31A	METAL CURTAIN WALL AND METAL INLETS
✓	726.30B	CULVERT INSTALLATION METHODS
	731.00L	PRECAST MANHOLES (ALSO INCLUDE 614.30)
	731.10D	PRECAST DROP INLETS (4 SHEETS) (ALSO INCLUDE 614.30 & 614.10)
✓	732.00G	FLARED END SECTION (2 SHEETS)
	806.00A	EROSION CONTROL NETTING (INSTALLATION) TYPE I & TYPE II
	806.02	STAPLE PLACEMENT FOR TYPE III NETTING

✓	NO.	DESCRIPTION
		HIGHWAY LIGHTING
	901.00G	POLES & APPURTENANCES - 30' (3 SHEETS)
	901.01M	POLES & APPURTENANCES - 45' (3 SHEETS)
	901.05A	CONTROL PANEL CABINET DETAILS (2 SHEETS) (NOTE BELOW)
	901.12A	POLE MOUNT. CONT. STA.-SECONDARY SERV.-480 V MULTI. CIR. (NOT METERED)
	901.15A	POLE MOUNT. CONT. STA.-SEC. SERV.-120, 240, & 480 V MULTI. CIR.
	901.16A	POLE MOUNT. CONT. STA.-SEC. SERV.-480 V MULTI. CIR. (METERED)
	901.18B	POLE MOUNT. CONT. STA.-SEC. SERV.-120/240 V MULTI. CIR.
	901.19A	POLE MOUNT. CONT. STA.-SEC. SERV.-240 V MULTI. CIR. (NOT METERED)
	901.20A	POLE MOUNT. CONT. STA.-SEC. SERV.-120/240 V MULTI. CIR. (SIG. METERED)
	901.22A	POLE MOUNT. CONT. STA.-SEC. SERV.-120/240 & 480 V MULTI. CIR. (BOTH METERED)
	901.23A	POLE MOUNT. CONT. STA.-SEC. SERV.-240 V MULTI. CIR. (METERED)
	901.24A	POLE MOUNT. CONT. STA.-SEC. SERV.-240 V MULTI. CIR. (LT'S & SIGS-BOTH METERED)
	901.25	BASE MOUNT. CONT. STA.-SEC. SERV.-120-240 V MULTI. CIR.
	NOTE:	ALSO INCLUDE 901.05 WITH 901.12 THROUGH 901.25 EXCEPT 901.18
		TRAFFIC SIGNALS
✓	902.00B	SIGNAL HEADS, LENSES AND MOUNTING
	902.10B	PULL BOXES, CONTROLLERS, COND. INSTAL., POWER SUPPLY
	902.21	TELEPHONE INTERCONNECT
	902.30B	CONCRETE BASES
	902.40B	TUBULAR STEEL POST
	902.50C	DETECTORS
✓	902.60B	SPAN WIRE DETAILS
		HIGHWAY SIGNING
✓	903.00A	STANDARD ALPHABETS (SILK SCREEN - 5 SHEETS)
	903.01A	ALPHABETS (CUT OUT - 5 SHEETS)
	903.02P	HIGHWAY SIGNING (7 SHEETS)
	903.03Z	SIGN MOUNTING DETAILS (6 SHEETS)
	903.04A	WEIGH STATION SIGNING
	903.05A	TUBULAR SPAN SUPPORT - ONE TUBE, TYPE S
	903.06A	TUBULAR SPAN SUPPORT - TWO TUBE, TYPE S
	903.07A	TUBULAR CANTILEVER SUPPORTS, TYPE C
	903.08B	TUBULAR BUTTERFLY SUPPORTS, TYPE B
	903.09C	LIGHTING SUPPORT BRACKET
	903.10N	SIGN TRUSSES - OVERHEAD ALUMINUM (8 SHEETS)
	903.12H	SIGN TRUSSES - BUTTERFLY & CANTILEVER - STEEL (7 SHEETS)
	903.60L	SIGN TRUSSES - OVERHEAD STEEL (7 SHEETS)

NOTES: Plans for this project were developed using Drawings from this index. Plans issued for this project contain the Drawings checked. If any Drawing(s) is missing, it will be furnished upon notification and its omission will not be cause for claim on this project.