

DESIGN DESIGNATION

A.A.D.T. - 2018 = 6836  
A.A.D.T. - 2038 = 7553  
D.H.V. = 8%  
T = 22%  
V = 45 M.P.H.

FUNCTIONAL CLASSIFICATION- MINOR ARTERIAL

NO NEW RIGHT OF WAY

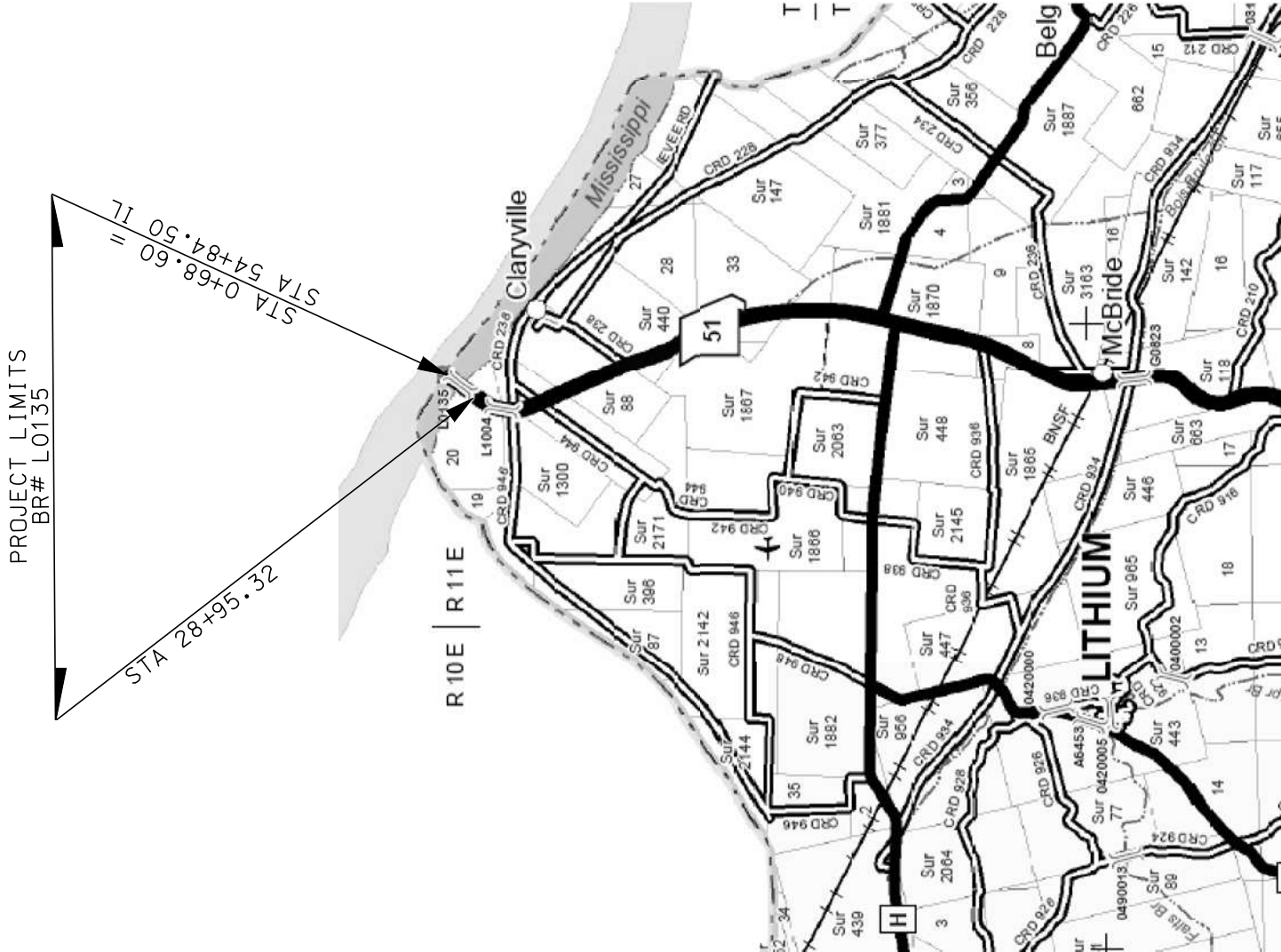
CONVENTIONAL SYMBOLS

(USED IN PLANS)

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

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

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



INDEX OF SHEETS


DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (0 SHEETS)	2
QUANTITIES (QU) (2 SHEETS)	3
TRAFFIC CONTROL SHEETS (TC)	4-6
BRIDGE DRAWINGS (B)	
L01354	1-4
A####	XX-XX
A####	XX-XX
A####	XX-XX

LENGTH OF PROJECT

BEGINNING OF PROJECT	STA 28+95.32
END OF PROJECT	STA 0+68.60
APPARENT LENGTH	2826.72 FEET
EQUATIONS AND EXCEPTIONS:	

TOTAL CORRECTIONS	0.000 FEET
NET LENGTH OF PROJECT	2826.72 FEET
STATE LENGTH	0.535 MILES

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

DATE

DESCRIPTION

BRIDGE NO.

PROJECT NO.

CONTRACT ID.

J9P3104

MO

51

2/13/2018

DATE PREPARED

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

STATE OF MISSOURI

CHRS E PERRY

NUMBER PE-200000007

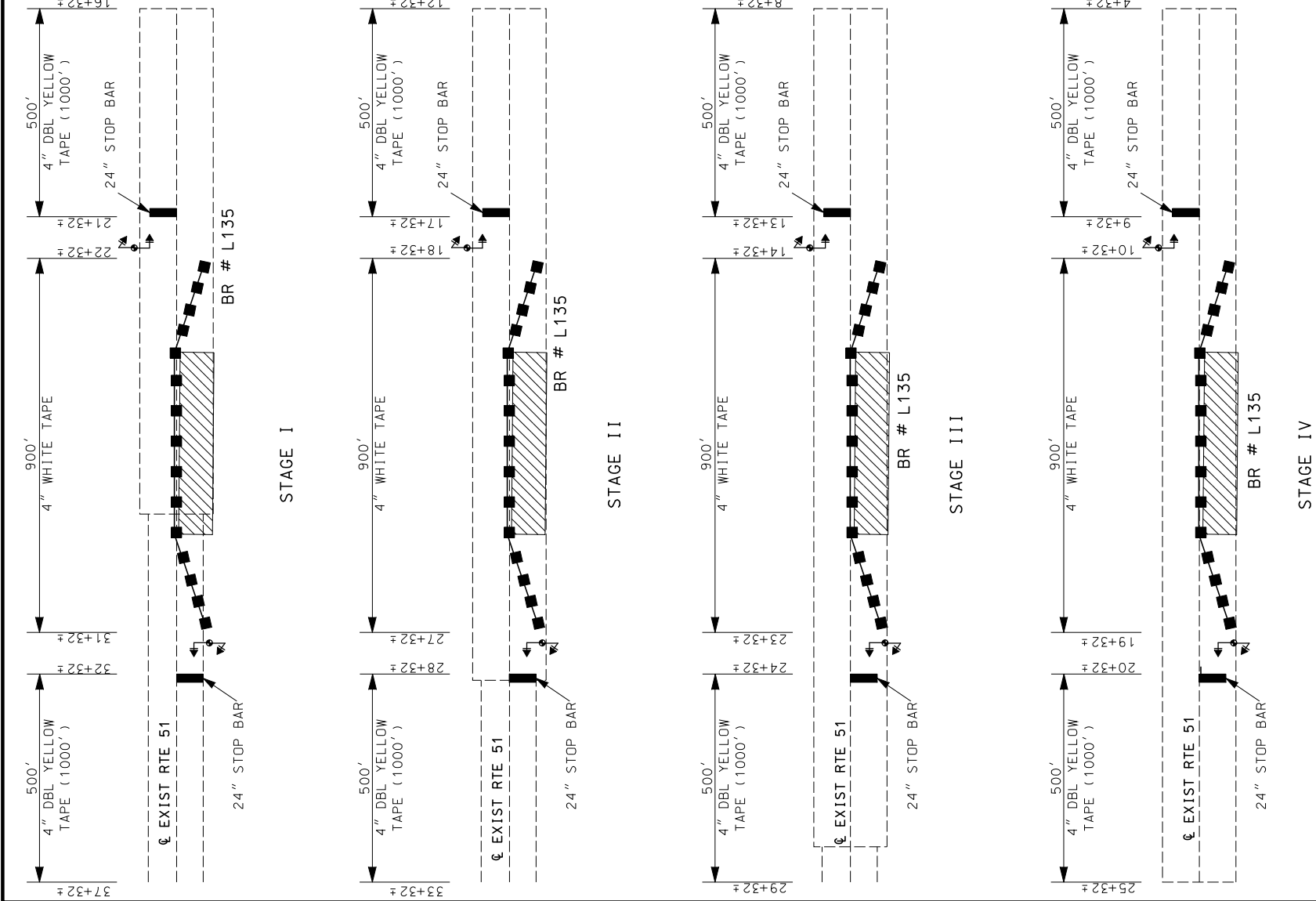
PROFESSIONAL ENGINEER

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[illegible]





- TRAFFIC CONTROL LEGEND
- CHANNELIZER (TRIM LINE)
  - PORTABLE SIGN
  - NON-PORTABLE SIGN
  - PORTABLE TRAFFIC CONTROL
  - TEMPORARY LONG-TERM RUMBLE STRIPS

MOVING OPERATION  
PAVEMENT MARKING

TRAFFIC CONTROL SHEET  
STAGING DETAIL  
SHEET 2 OF 3  
DRAWING NOT TO SCALE

DATE		DESCRIPTION
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION		
105 WEST CAPITOL		
JEFFERSON CITY, MO 65102		
1-888-ASK-MODOT (1-888-275-6636)		
BRIDGE NO.		
PROJECT NO.		
CONTRACT ID.		
JOB NO.		
COUNTY		
PERRY		
DISTRICT		
SHEET NO.		
SE 5		
ROUTE		
51		
STATE		
MO		
DATE PREPARED		
2/13/2018		
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.		
PROFESSIONAL ENGINEER		
NUMBER		
PE-20080707		
NAME		
CHRIS E. PERRY		
STATE OF MISSOURI		

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ROAD  
WORK  
AHEAD

BRIDGE  
OR  
RAMP

W020--1

2

SPEED  
LIMIT  
25

↑

W03--5

3

SPEED  
LIMIT  
25

R2--1

4

SPEED  
LIMIT  
45

R2--1

25

END  
ROAD WORK

GO20--2

26

WIDTH RESTRICTION  
10' 00"

1 MILES AHEAD

W012--5

48A

WIDTH RESTRICTION  
10' 00"

2 MILES AHEAD

W012--5

48B

WORK  
ZONE

GO20--5GP

54

W020--1

2

W03--5

3

R2--1

4

R2--1

25

GO20--2

26

W012--5

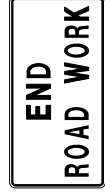
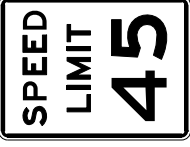
48A

W012--5

48B

GO20--5GP

54



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ELECTRONICALLY.

DATE PREPARED

2/13/2018

ROUTE

51

STATE

MO

DISTRICT

SE

SHEET NO.

6

COUNTY

PERRY

JOB NO.

J9P3104

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

1-888-ASK-MODOT (1-888-275-6636)

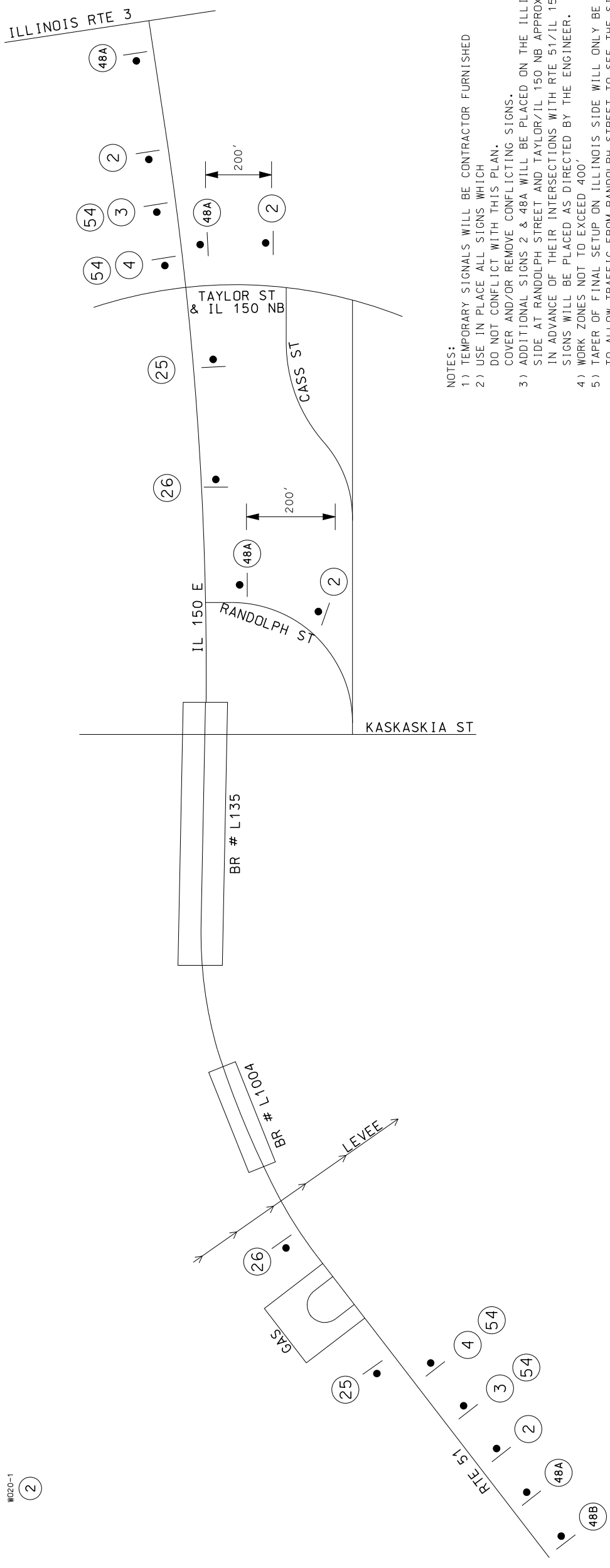


- TRAFFIC CONTROL LEGEND
- CHANNELIZER (TRIM LINE)
  - PORTABLE SIGN
  - NON-PORTABLE SIGN
  - PORTABLE TRAFFIC CONTROL
  - TEMPORARY LONG-TERM RUMBLE STRIPS

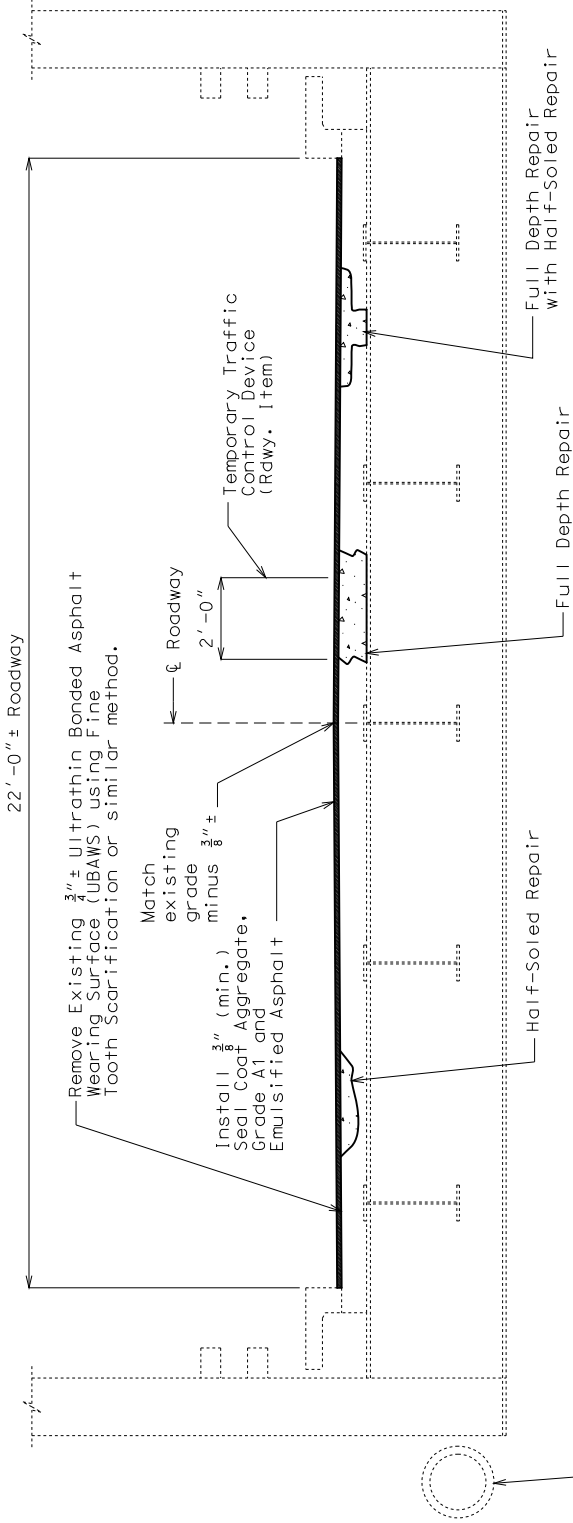
RTE 51 SIGN LAYOUT

TRAFFIC CONTROL SHEET  
SIGN LAYOUT  
SHEET 3 OF 3  
DRAWING NOT TO SCALE

- NOTES:
- TEMPORARY SIGNALS WILL BE CONTRACTOR FURNISHED
  - USE IN PLACE ALL SIGNS WHICH DO NOT CONFLICT WITH THIS PLAN. COVER AND/OR REMOVE CONFLICTING SIGNS.
  - ADDITIONAL SIGNS 2 & 48A WILL BE PLACED ON THE ILLINOIS SIDE AT RANDOLPH STREET AND TAYLOR/IL 150 NB APPROX 500' IN ADVANCE OF THEIR INTERSECTIONS WITH RTE 51/IL 150 E. THESE SIGNS WILL BE PLACED AS DIRECTED BY THE ENGINEER.
  - WORK ZONES NOT TO EXCEED 400'
  - TAPER OF FINAL SETUP ON ILLINOIS SIDE WILL ONLY BE 837' TO ALLOW TRAFFIC FROM RANDOLPH STREET TO SEE THE SIGNAL.
  - SEE TRAFFIC CONTROL SHEET 1 OF 3 FOR SIGN SPACING NOT NOTED ON THIS SHEET.
  - ANY WORK OUTSIDE THE PROJECT LIMITS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.



U.I.P. AND REHABILITATE EXISTING (7 @ 60') SIMPLE WIDE FLANGE BEAM SPANS, (250'-250') CONTINUOUS DECK TRUSS SPANS, (670'-670') CONTINUOUS THROUGH TRUSS SPANS, (250'-250') CONTINUOUS DECK TRUSS SPANS, (60') SIMPLE WIDE FLANGE BEAM SPAN



SECTION THRU EXISTING DECK

(Through truss span shown, wide flange beam and deck truss spans not shown for clarity)

FULL DEPTH REPAIR

FULL DEPTH REPAIR WITH HALF-SOLED REPAIR

- (1) Remove existing wearing surface.
- (2) One inch vertical side shall be established outside the deteriorated area. See Sec 704.
- (3) Install 3/8" (min.) Seal Coat Aggregate, Grade A1 and Emulsified Asphalt.

DECK REPAIR DETAILS

Estimated Quantities			
Item			Total
Removal of Asphalt Wearing Surface	sq. foot		62,928
Emulsified Asphalt, Seal Coat	gallon		2800
Seal Coat Aggregate, Grade A1	sq. yard		6992
Repairing Concrete Deck (Half-Soling)	sq. foot		4800
Full Depth Repair	sq. foot		2000
Clean and Epoxy Seal	sq. foot		18,500
Curb Repair (Formed)	sq. foot		300
Cleaning and Coating Existing Bearings	each		40
Steel Beam Cap Repair	lump sum		1
Rehabilitate Saddle Bearing	each		5
Open Cell Foam Joint Seal	linear foot		46


\* Bearings at Int. Bents No. 2, 3, 4, 6 & 7 (See Special Provisions).

\*\* Saddle bearings in Span (11-12) at L12 (See Special Provisions).

REPAIRS TO BRIDGE: ROUTE 51 OVER MISSISSIPPI RIVER & UNION PACIFIC RAILROAD

ROUTE 51 FROM ROUTE C TO ILLINOIS ROUTE 3  
AT ILLINOIS STATE LINE  
BEGINNING STATION 28+95.32 ± (MATCH EXIST.)

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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

DATE

DESCRIPTION

BRIDGE NO.  
L01354

PROJECT NO.

CONTRACT ID.  
J9P3104

JOB NO.  
PERRY

COUNTY  
BR

DISTRICT  
51

ROUTE  
2/16/2018

DATE PREPARED

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

PROFESSIONAL ENGINEER

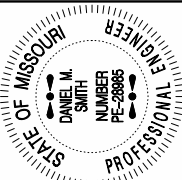
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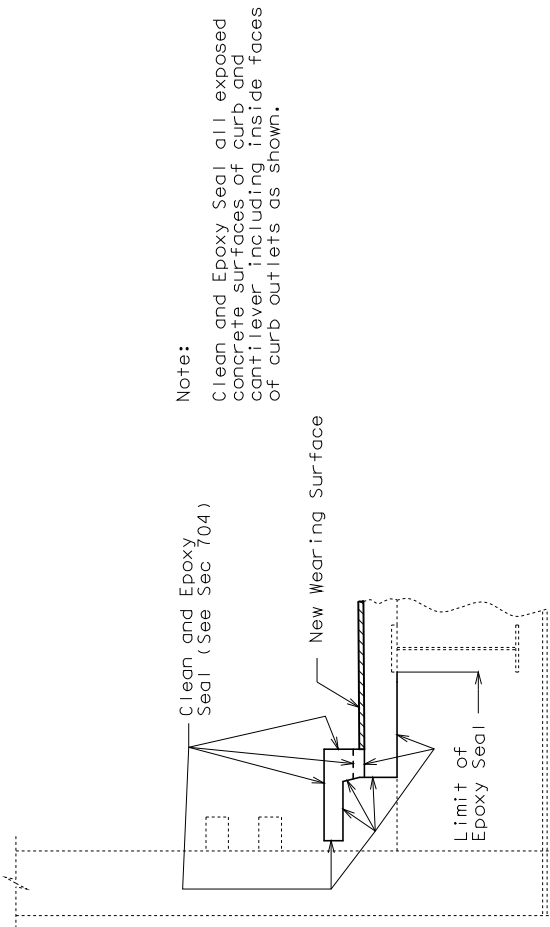
NAME  
DANIEL M. SMITH

STATE OF MISSOURI

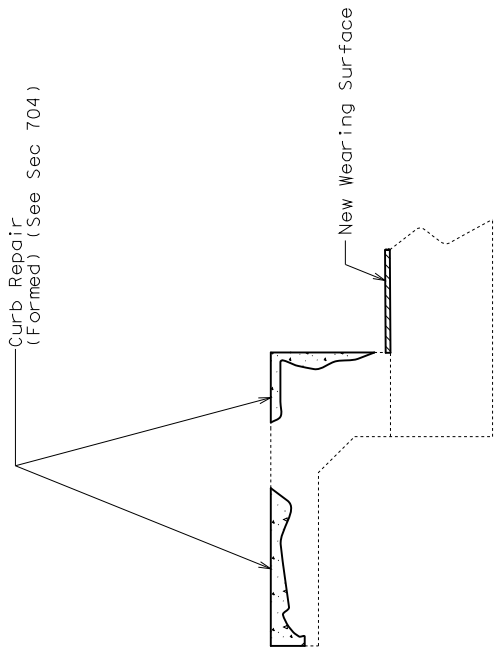
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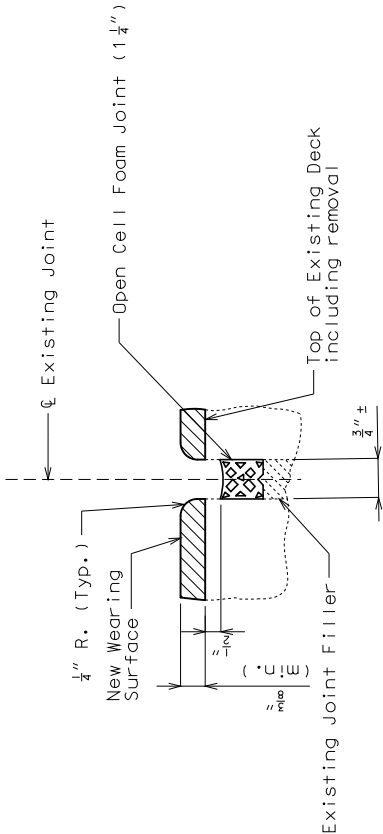
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DATE PREPARED 2/16/2018		STATE MO	
ROUTE 51		DISTRICT BR	
SHEET NO. 2		COUNTY PERRY	
JOB NO. J9P3104		CONTRACT ID.	
PROJECT NO.		BRIDGE NO. L01354	
DESCRIPTION		DATE	
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION		JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)	



PART SECTION SHOWING CLEAN AND EPOXY SEAL OF CURB AND SLAB CANTILEVER IN SPANS (10-11) & (11-12)



PART SECTION THRU CURB SHOWING REPAIR IN SPANS (10-11) & (11-12)

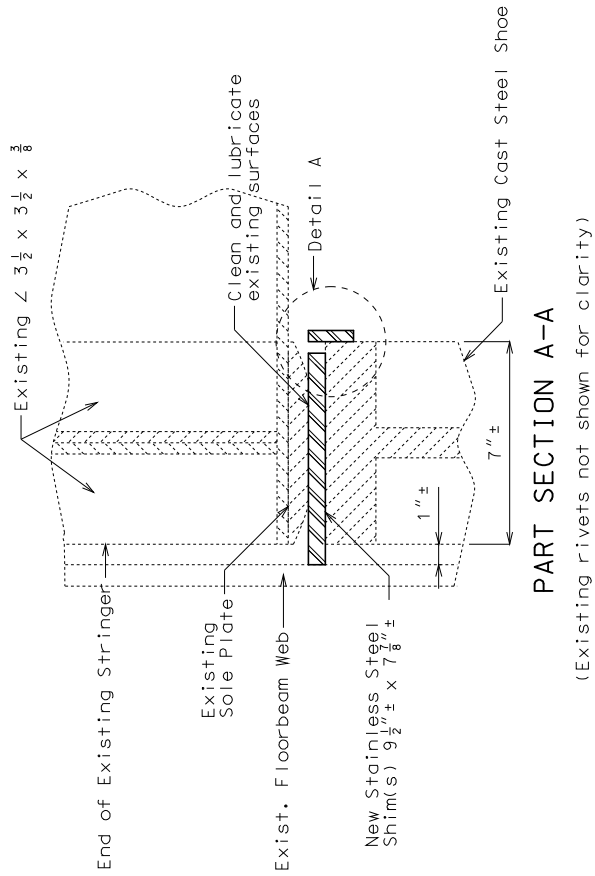
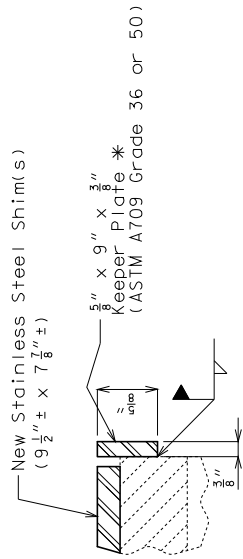
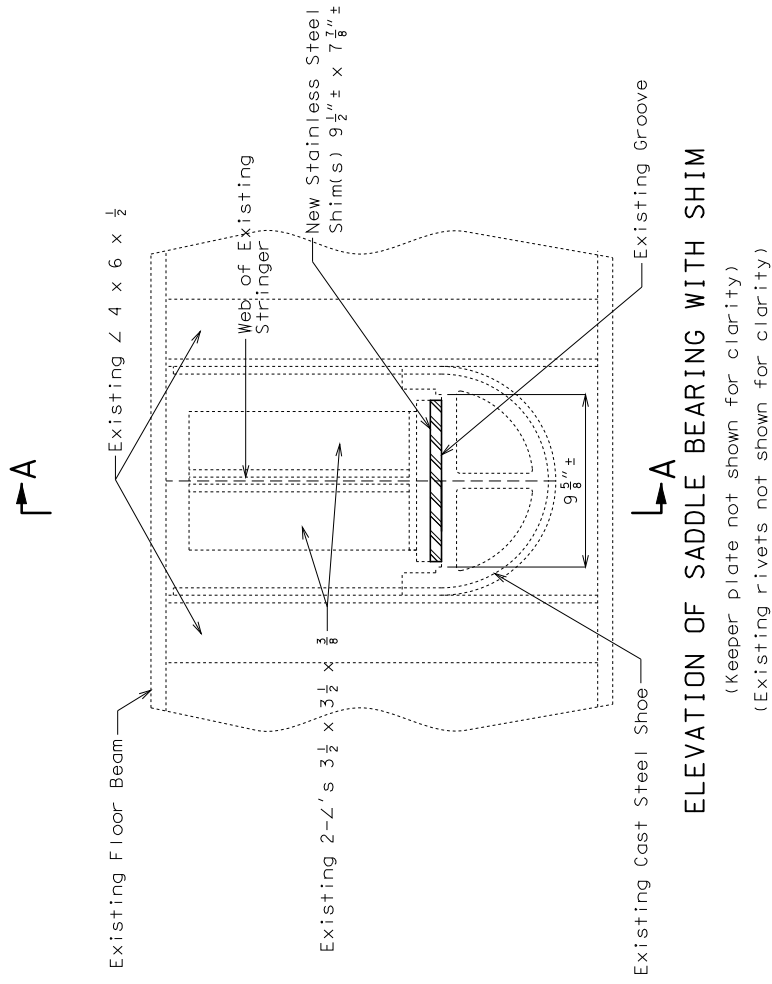


SECTION THRU JOINT AT INTERMEDIATE BENT NO. 7 & ABUTMENT NO. 15

Note:  
Payment for furnishing and installing the Open Cell Foam Joint will be considered completely covered by the contract unit price for Open Cell Foam Joint.







GAP	NUMBER OF $\frac{1}{8}$ " SHIMS	NUMBER OF $\frac{1}{4}$ " SHIMS
$\frac{1}{16}$ "	1	0
$\frac{1}{8}$ "	1	0
$\frac{3}{16}$ "	0	1
$\frac{1}{4}$ "	0	1
$\frac{5}{16}$ "	1	1
$\frac{3}{8}$ "	1	1

SHIM TABLE FOR SADDLE BEARINGS

After the shims are in place, a keeper plate shall be welded to the face of the cast steel shoe as shown in Detail A.

The cost of furnishing, fabricating and installing the required shims) and one keeper plate per saddle bearing will be considered completely covered by the contract unit price for Rehabilitate Saddle Bearing.

The cost of inspecting, cleaning, lubricating and resetting existing saddle bearings will be considered completely covered by the contract unit price for Rehabilitate Saddle Bearing.

Stainless steel shims shall be in accordance with ASTM A240, UNS S41000.

### DETAILS OF SADDLE BEARING REHABILITATION AT L12 IN SPAN (11-12)

Designed	Dec. 2017
Checked	Dec. 2017

Designed	Dec. 2017
Checked	Dec. 2017

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

Sheet No. 4 of 4

REV.

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