MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY

GREENE COUNTY

DESIGN DESIGNATION

KEARNEY ST. (MO 744)
A.A.D.T. - 2020 = 10,638
A.A.D.T. - 2040 = 13,325
D.H.V. (WB) = 8.86% D.H.V. (EB) = 20.60%
T (WB) = 9.90% T (EB) = 3.70%
V = 45 M.P.H.
FUNCTIONAL CLASSIFICATION - MINOR/PRINCIPAL ARTERIAL

WEST BYPASS (US 160)
A.A.D.T. - 2020 = 16,315
A.A.D.T. - 2040 = 18,420
D.H.V. (WB) = 8.16% D.H.V. (EB) = 11.86%
T (WB) = 7.03% T (EB) = 7.12%
V = 45 M.P.H.
FUNCTIONAL CLASSIFICATION - FREEWAY/EXPRESSWAY

PARTIAL CONTROLLED ACCESS HIGHWAY

THIS SHALL BE A PARTIAL CONTROLLED ACCESS HIGHWAY, EXCEPT AT LOCATIONS AND AS OTHERWISE SPECIFICALLY SHOWN ON THESE PLANS. NO ABUTTER'S RIGHTS IN OR OF DIRECT ACCESS TO, FROM, OR ACROSS THE HIGHWAY OR ITS RIGHT-OF-WAY SHALL ATTACH OR BELONG TO ANY PROPERTY ABUTTING ON SAID SECTION OF HIGHWAY, OR TO ANY PERSON MERELY BECAUSE OF OWNERSHIP OF SUCH ABUTTING PROPERTY WHERE THE SYMBOL SHOWN BELOW IS SHOWN ON THE RIGHT-OF-WAY LINE.

BEGINNING AND ENDING OF CONTROLLED ACCESS

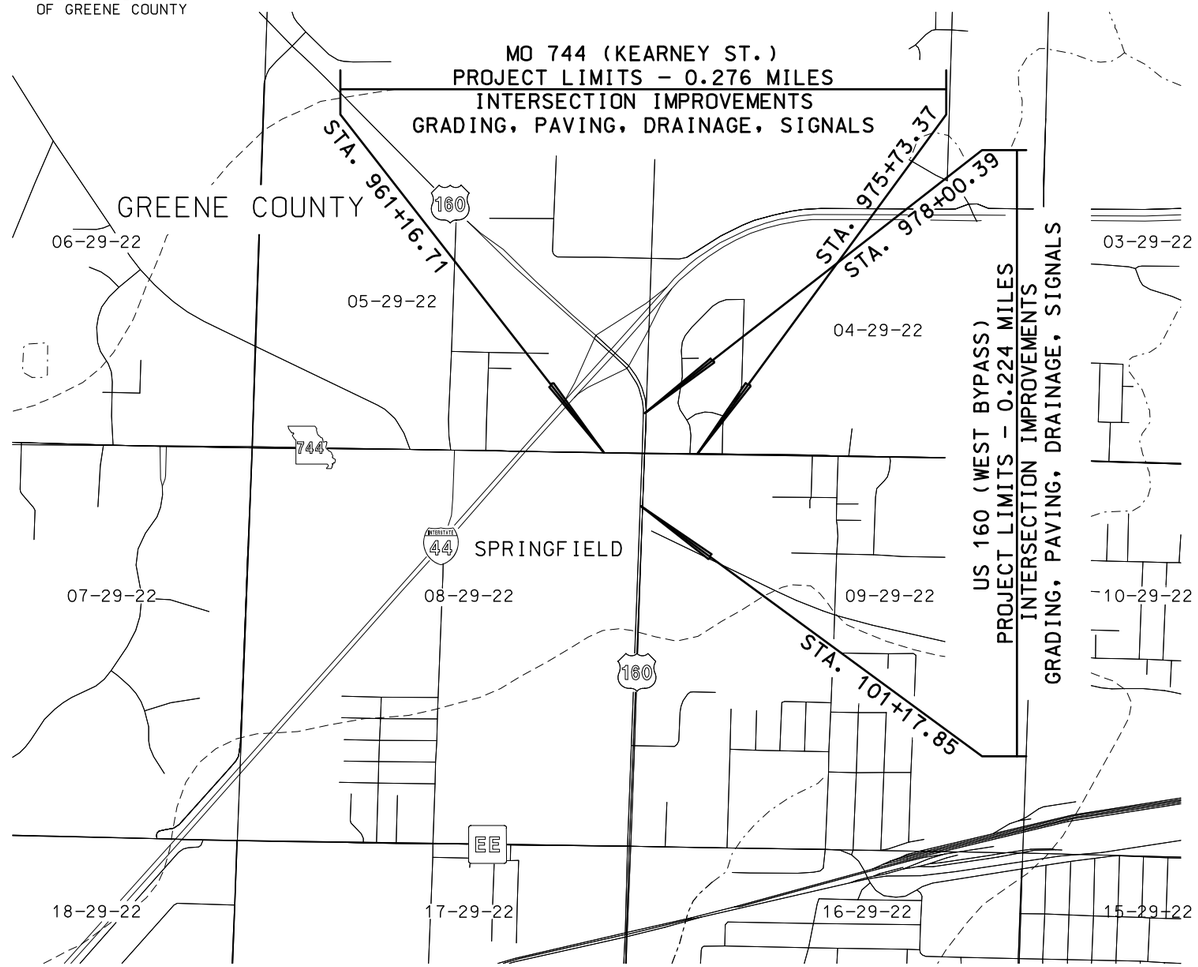
NO RIGHT OF ACCESS OR CROSSING OF LINES BEARING THIS SYMBOL WILL BE PERMITTED UNDER ANY CIRCUMSTANCES.

CONVENTIONAL SYMBOLS
(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	~~FO~~
OVERHEAD CABLE TV	-OTV-	~~OTV~~
UNDERGROUND CABLE TV	-UTV-	~~UTV~~
OVERHEAD TELEPHONE	-OT-	~~OT~~
UNDERGROUND TELEPHONE	-UT-	~~UT~~
OVERHEAD POWER	-OE-	~~OE~~
UNDERGROUND POWER	-UE-	~~UE~~
SANITARY SEWER	-S-	~~S~~
STORM SEWER	-SS-	~~SS~~
GAS	-G-	~~G~~
WATER	-W-	~~W~~
MANHOLE	SAN	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
DROP INLET	DI	
DITCH BLOCK		
GROUND MOUNTED SIGN	SIGN	
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL	PED	
FENCE		
CHAIN LINK	-V-	
WOVEN WIRE	-X-	
GATE POST		
BENCHMARK	BM	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

SHOWING LOCATION OF GREENE COUNTY



¼ 0 ½ 1
SCALE IN MILES

THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. IT IS, THEREFORE, THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, LOCATION AND STATUS OF ANY FACILITY. SUCH VERIFICATION INCLUDES DIRECT CONTACT WITH THE LISTED UTILITIES.

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LENGTH OF PROJECT

MO 744

BEGINNING OF PROJECT	STA. 961+16.71	
END OF PROJECT	STA. 975+73.37	
APPARENT LENGTH	1456.66	FEET
	0.276	MILES
EQUATIONS AND EXCEPTIONS:	NONE	

US 160 (NORTH LEG)

BEGINNING OF PROJECT	STA. 978+00.39	
END OF PROJECT	STA. 984+39.07	
APPARENT LENGTH	638.68	FEET
	0.121	MILES
EQUATIONS AND EXCEPTIONS:	NONE	

US 160 (SOUTH LEG)

BEGINNING OF PROJECT	STA. 101+17.85	
END OF PROJECT	STA. 813+13.20	
APPARENT LENGTH	71195.35	FEET
	13.484	MILES
EQUATIONS AND EXCEPTIONS: STA. 103+97.60 BK = STA. 810+47.58 AH	70649.98	FEET
TOTAL CORRECTIONS	70649.98	FEET
NET LENGTH OF PROJECT	2640.71	FEET
STATE LENGTH	0.500	MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	1.590	ACRES

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

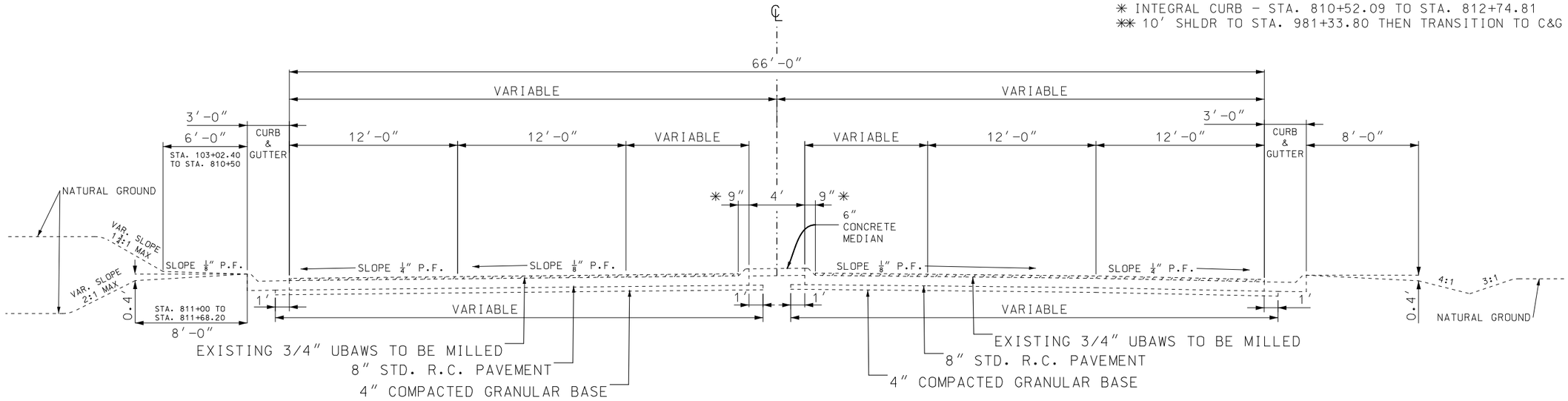
DATE PREPARED 9/23/2021
ROUTE 744/160 | STATE MO
DISTRICT SW | SHEET NO. 1
COUNTY GREENE
JOB NO. J8P3087D
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

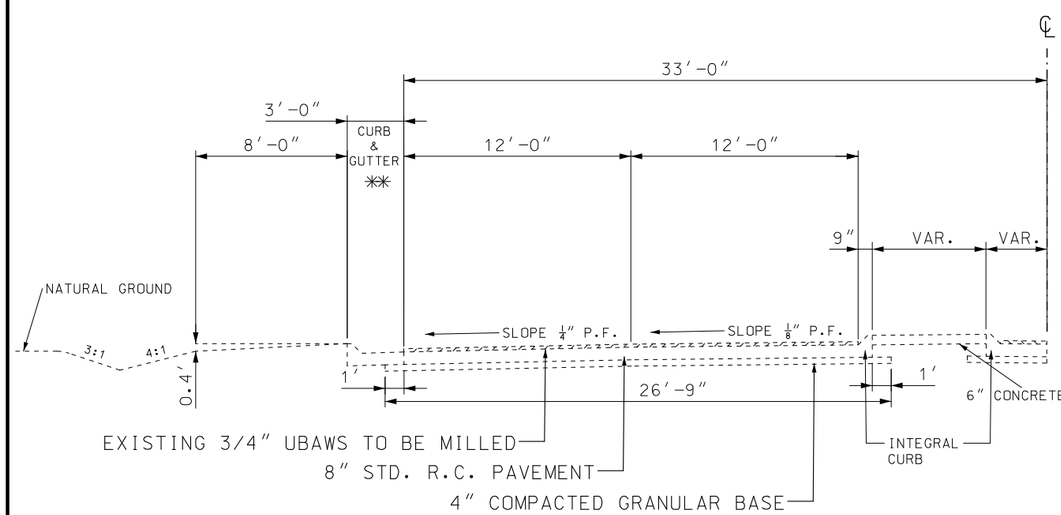
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

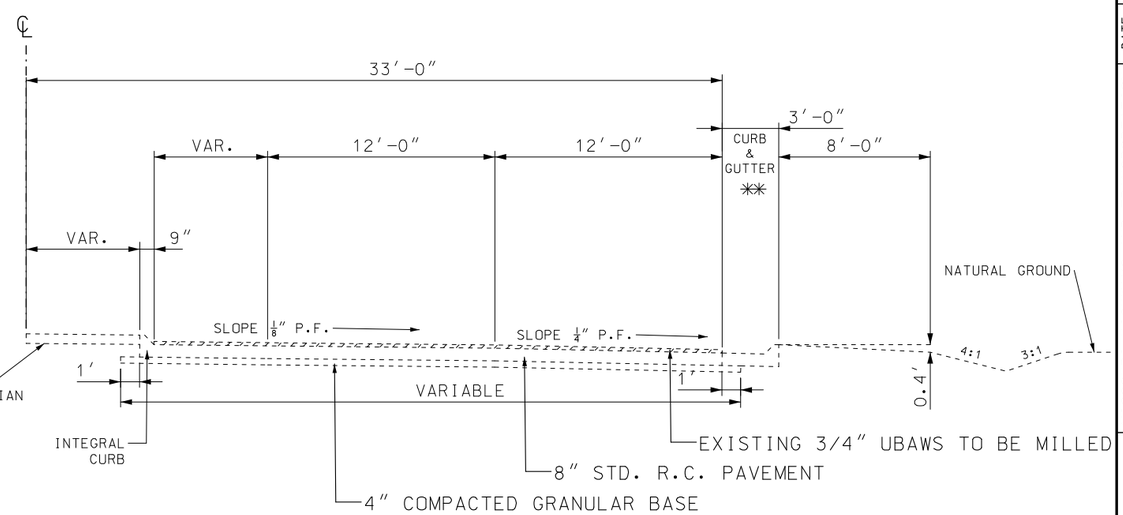
✳ INTEGRAL CURB – STA. 810+52.09 TO STA. 812+74.81
✳✳ 10′ SHLDR TO STA. 981+33.80 THEN TRANSITION TO C&G



EXISTING SECTION ON TANGENT
US 160 (WEST BYPASS)
STA. 102+74.40 TO STA. 812+27.15



HALF SECTION
US 160 (WEST BYPASS)
STA. 977+74.77 TO STA. 983+59.42



HALF SECTION
US 160 (WEST BYPASS)
STA. 978+93.27 TO STA. 983+48.95

US 160 PAVEMENT HISTORY:

1936 – SOUTHERN LEG: 20′ WIDE SLAB, 7″-9″ THICK PCCP.

1963 – NORTHERN LEG: 66′ WIDE SLAB, 8″ REINF. CONC. PAVEMENT OVER 4″ COMPACTED GRANULAR BASE FROM STA. 977+74.77 TO STA. 982+92.07.
SOUTHERN LEG: 66′ WIDE SLAB, 8″ REINF. CONC. PAVEMENT OVER 4″ COMPACTED GRANULAR BASE FROM STA. 102+74.40 TO STA. 811+68.20

1992 – SOUTHERN LEG: 1.25″ COLD MILL AND 1.75″ LIMESTONE PORPHYRY ASPH. CONC. FROM STA. 97+50.00 TO STA. 100+93.00.

2015 – 3/4″ TYPE C UBAWS LOG 88.865/234.298 TO 234.616/89.173.
1.75″ MILL/FILL BEGINNING AT LOG 234.298/89.173.

TYPICAL SECTION SHEET
US 160 (WEST BYPASS) SOUTH & NORTH LEGS
SHEET 1 OF 14

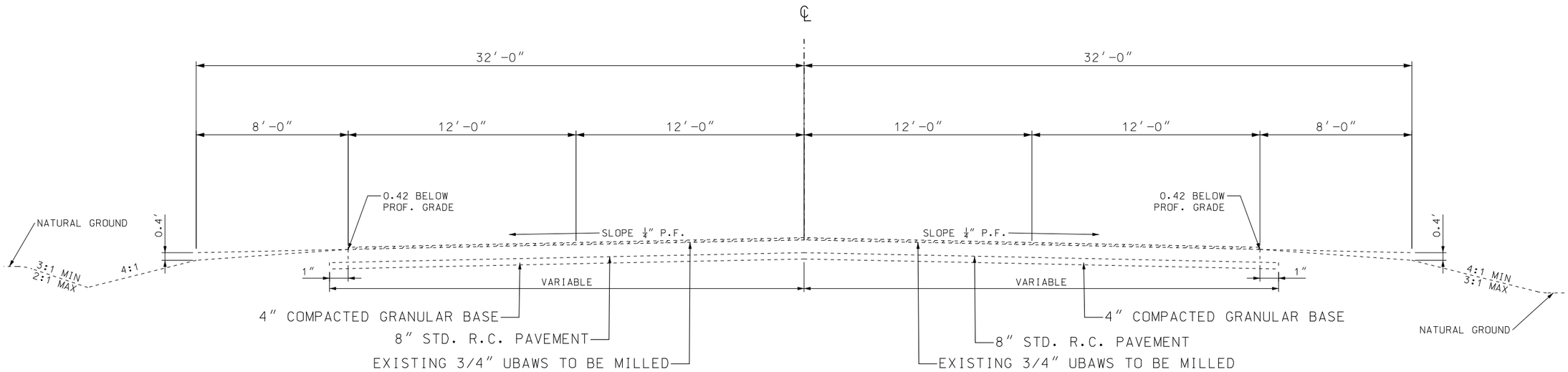
STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/5/2021	
ROUTE 744/160	STATE MO
DISTRICT SW	SHEET NO. 2
COUNTY GREENE	
JOB NO. J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

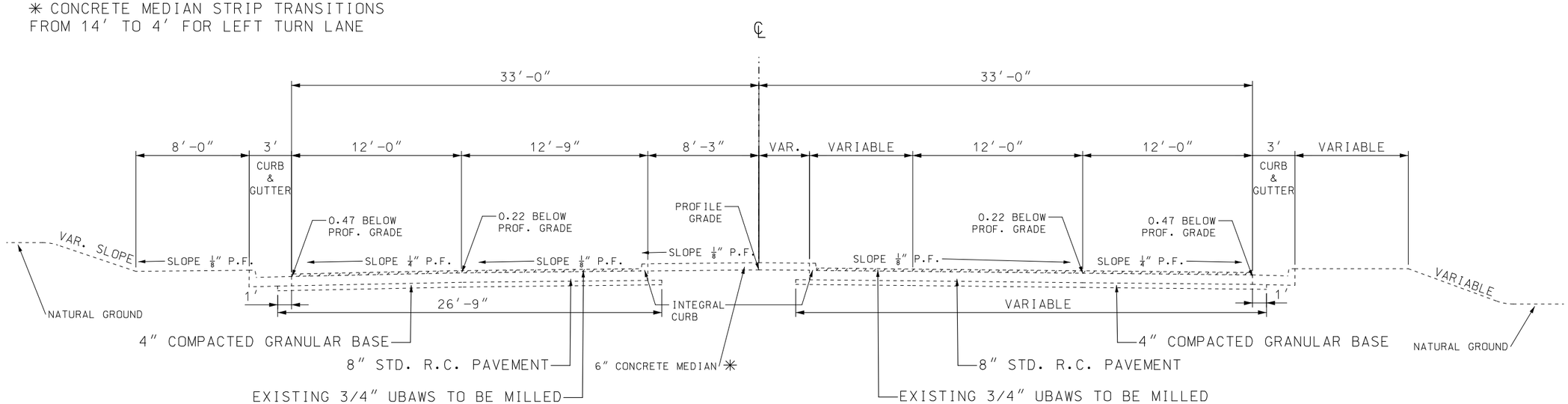
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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



EXISTING SECTION ON TANGENT
MO 744 (KEARNEY ST.)
STA. 961+16.71 TO STA. 961+70.83

✳ CONCRETE MEDIAN STRIP TRANSITIONS
FROM 14′ TO 4′ FOR LEFT TURN LANE



EXISTING SECTION ON TANGENT
MO 744 (KEARNEY ST.)
STA. 963+15.60 TO STA. 966+19.70

MO 744 PAVEMENT HISTORY:

1932 – 20′ WIDE SLAB, 7″-9″ THICK PCCP.

1963 – FOUR 12′LANES & VAR. WIDTH TURN LANE OF 8″ REINFORCED CONCRETE ON 4″ COMPACTED GRANULAR BASE SEPARATED BY VAR. WIDTH CONCRETE MEDIAN. 3′ STD. C&G.

1990 – WIDEN 2′-16.4′ (BOTH LANES) 10″ REINFORCED CONCRETE ON 4″ TYPE 1 OR 2 BASE AT STA. 971+90 TO STA. 974+88. PLUS 3′ TYPE A C&G AND 5′ BORDER OF 2″ TYPE C ASHP. CONC. OVER 4″ TYPE 1 OR 2 AGG.

2009 – 1 & 3/4″ SP125C OVERLAY, SHOULDERS OVERLAID W/ BP-1. DIAMOND GRINDING ON EXISTING CONCRETE PAVEMENT.

2015 – 3/4″ TYPE C UBAWS LOG 1.663 TO 1.910

TYPICAL SECTION SHEET
MO 744 (KEARNEY ST.) WEST LEG
SHEET 2 OF 14

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

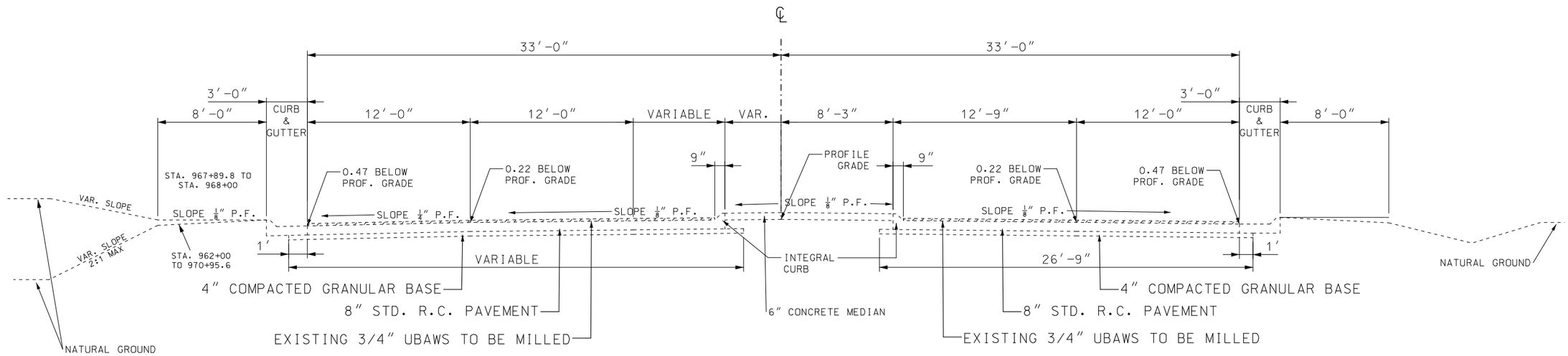
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	8/5/2021
ROUTE	744/160
STATE	MO
DISTRICT	SW
SHEET NO.	2
COUNTY	GREENE
JOB NO.	J8P3087D
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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



EXISTING SECTION ON TANGENT
MO 744 (KEARNEY ST.)
STA. 967+89.50 TO STA. 970+93.60

TYPICAL SECTION SHEET
MO 744 (KEARNEY ST.) EAST LEG
SHEET 3 OF 14

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

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DATE PREPARED	8/5/2021
ROUTE	744/160
STATE	MO
DISTRICT	SW
SHEET NO.	2
COUNTY	GREENE
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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL
JEFFERSON CITY, MO 65102
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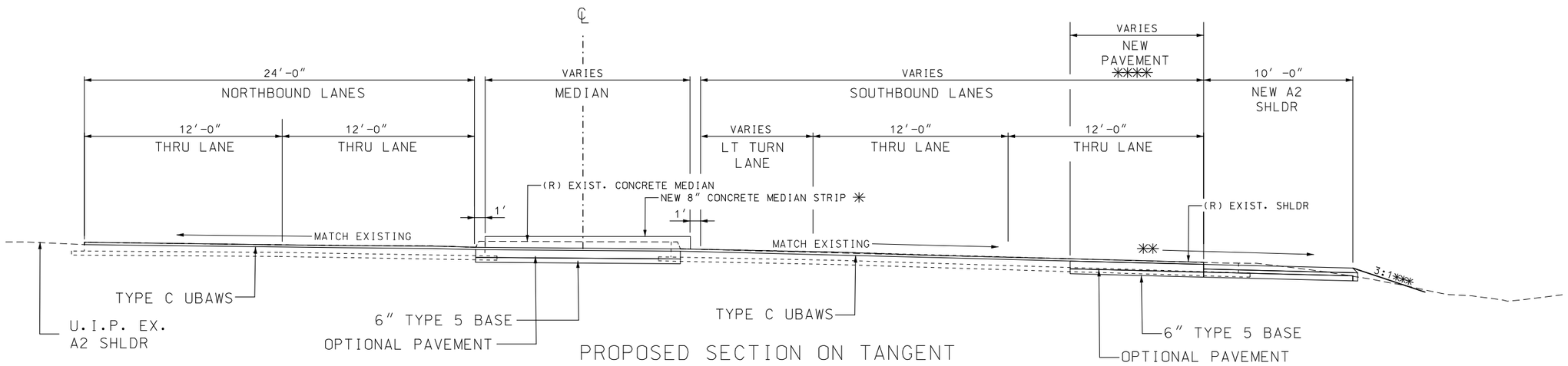
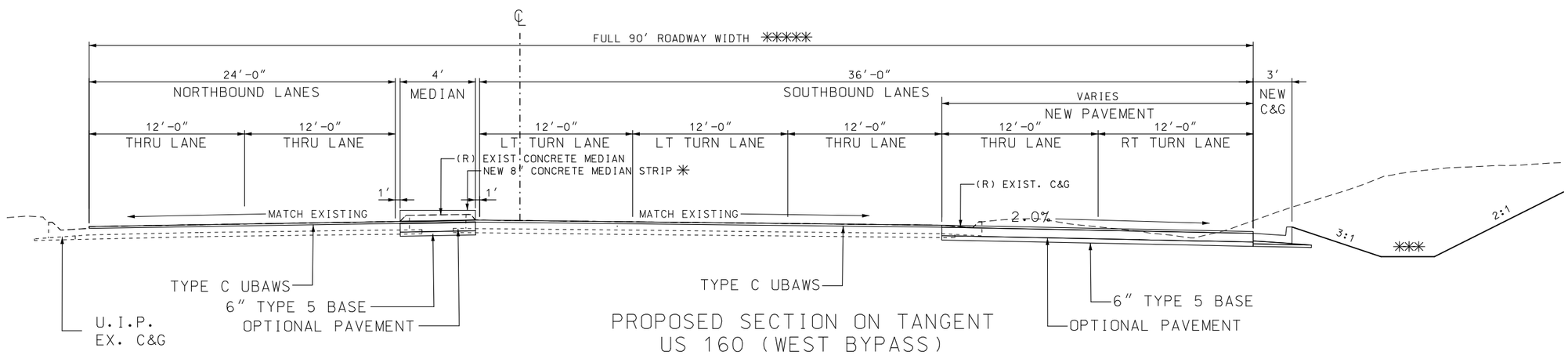


PROPOSED SECTION ON TANGENT
US 160 (WEST BYPASS)
STA. 978+00.39 TO STA. 980+70.39



PROPOSED SECTION ON TANGENT
US 160 (WEST BYPASS)
STA. 980+70.40 TO STA. 982+77.80

NOTES:

✱ TRANSITION CONCRETE MEDIAN FROM EXISTING WIDTH AT 978+00.39 TO 4′ WIDE AT STA. 980+67.07. MAINTAIN 4′ CONCRETE MEDIAN TO STA. 983+24.00.

✱✱ MATCH ADJACENT CROSS SLOPE FROM STA. 978+00.39 TO STA. 980+70.39. THEN BEGIN 2.0% CROSS SLOPE.

✱✱✱ SEE CROSS SECTIONS FOR 4′ FLAT BOTTOM DITCH DETAILS FROM STA. 979+92.34 TO STA. 982+77.81

✱✱✱✱ 2′ PAVEMENT WIDTH FROM STA. 978+00.39 TO STA. 978+50.13.

✱✱✱✱✱ FULL 90′ ROADWAY WIDTH AT STA. 981+70.39 TO STA. 982+77.80.

OPTIONAL PAVEMENT	
HMA DESIGN	PCCP DESIGN
12″ HMA CONSISTING OF:	9½″ PCCP W/:
1¾″ SP125C W/ PG76-22 OVER 3″ SP250C W/ PG76-22 OVER 7¼″ SP250C W/ PG 64-22	15 FT. JOINT SPACING & 1¼″ DOWELS

TYPICAL SECTION SHEET
US 160 (WEST BYPASS) NORTH LEG
SHEET 4 OF 14

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

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DATE PREPARED	8/5/2021
ROUTE	744/160
STATE	MO
DISTRICT	SW
SHEET NO.	2
COUNTY	GREENE
JOB NO.	J8P3087D
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

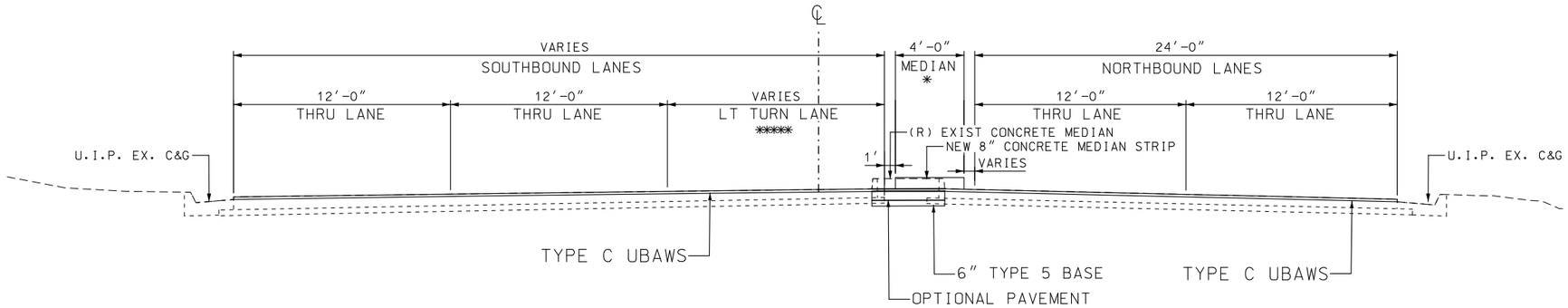
DESCRIPTION

DATE

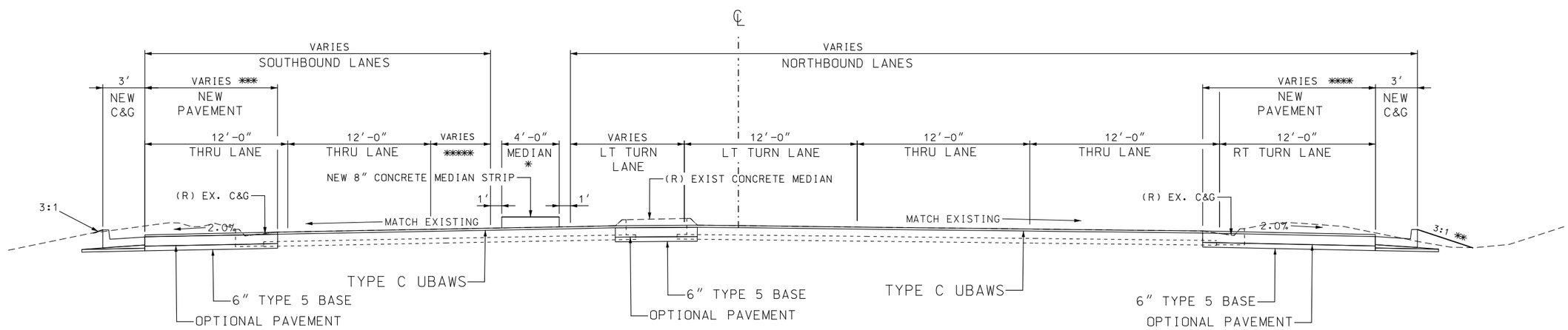
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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



PROPOSED SECTION ON TANGENT
US 160 (WEST BYPASS)
STA. 101+17.85 TO STA. 103+32.14



PROPOSED SECTION ON TANGENT
US 160 (WEST BYPASS)
STA. 103+32.15 TO STA. 811+59.15

NOTES:

* 4′ MEDIAN BEGINS AT STA. 101+83.55, ENDS AT STA. 812+02.45

** SEE CROSS SECTIONS FOR 4′ FLAT BOTTOM DITCH AT STA. 810+70.40 TO STA. 811+59.18

*** 2′ PAVEMENT WIDTH FROM STA. 103+32.15 TO STA. 103+61.67.

**** 2′ PAVEMENT WIDTH FROM STA. 103+32.15 TO STA. 103+47.90.

***** 12′ SB LT TURN LANE INTO GAS STATION FROM STA. 101+81.88 TO STA. 103+03.72. TRANSITION FROM FULL WIDTH LT TURN LANE AT STA. 103+03.72 TO STA. 811+51.98.

TYPICAL SECTION SHEET
US 160 (WEST BYPASS) SOUTH LEG
SHEET 5 OF 14

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

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DATE PREPARED	8/5/2021
ROUTE	744/160
STATE	MO
DISTRICT	SW
SHEET NO.	2
COUNTY	GREENE
JOB NO.	J8P3087D
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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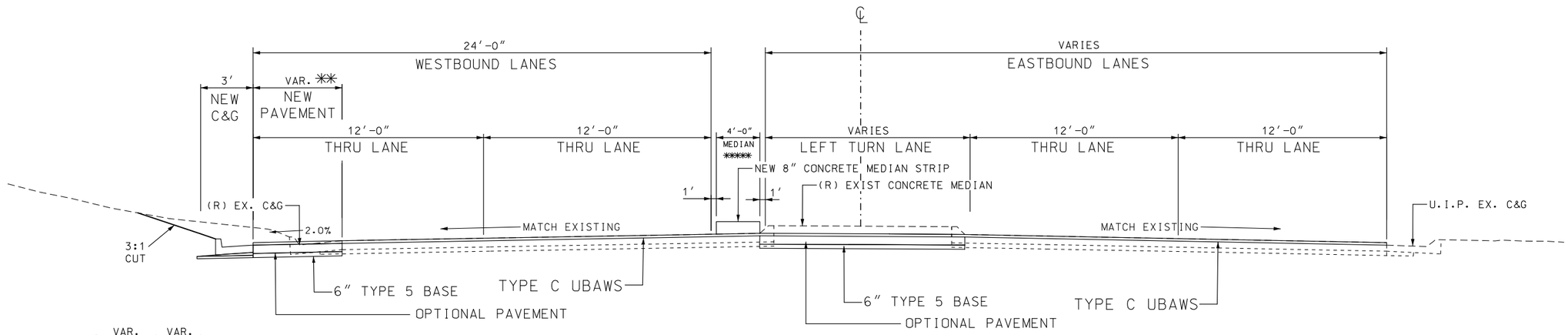
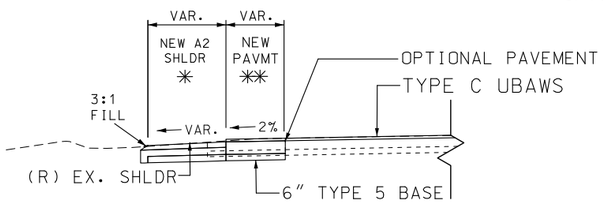
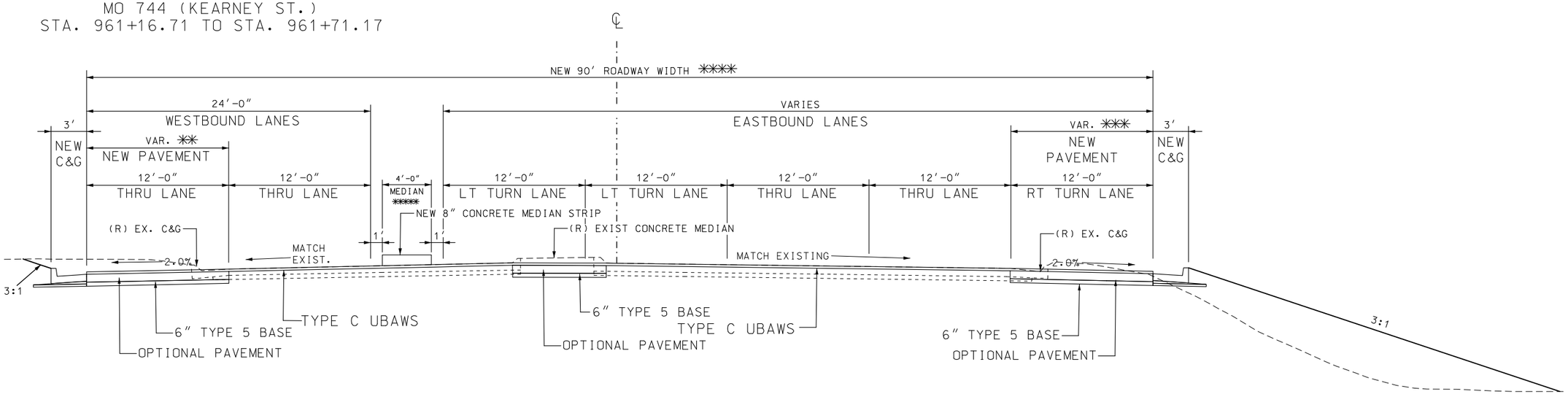


PROPOSED SECTION ON TANGENT
MO 744 (KEARNEY ST.)
STA. 961+71.18 TO STA. 963+19.62



WESTBOUND SHOULDER TIE-IN
MO 744 (KEARNEY ST.)
STA. 961+16.71 TO STA. 961+71.17



NOTES:

✳ TRANSITION SHOULDER FROM EXIST. WIDTH AT STA. 961+16.71 TO 2.0′ AT STA. 961+71.17.

✳✳ 2′ PAVEMENT WIDTH FROM STA.961+16.71 TO STA. 961+52.11. WIDEN TO 12′ AT STA. 963+86.71.

✳✳✳ 2′ PAVEMENT WIDTH FROM STA. 963+19.62 TO STA. 963+36.83. WIDEN TO 12′ AT STA. 964+19.62.

✳✳✳✳ FULL NEW 90′ ROADWAY WIDTH AT STA. 964+19.62 TO STA. 965+27.78.

✳✳✳✳✳ 4′ MEDIAN TO BE CONTRUCTED FROM STA. 961+88.22 TO STA. 965+75.10.

PROPOSED SECTION ON TANGENT
MO 744 (KEARNEY ST.)
STA. 963+19.63 TO STA. 965+78.96

TYPICAL SECTION SHEET
MO 744 (KEARNEY ST.) WEST LEG
SHEET 6 OF 14

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

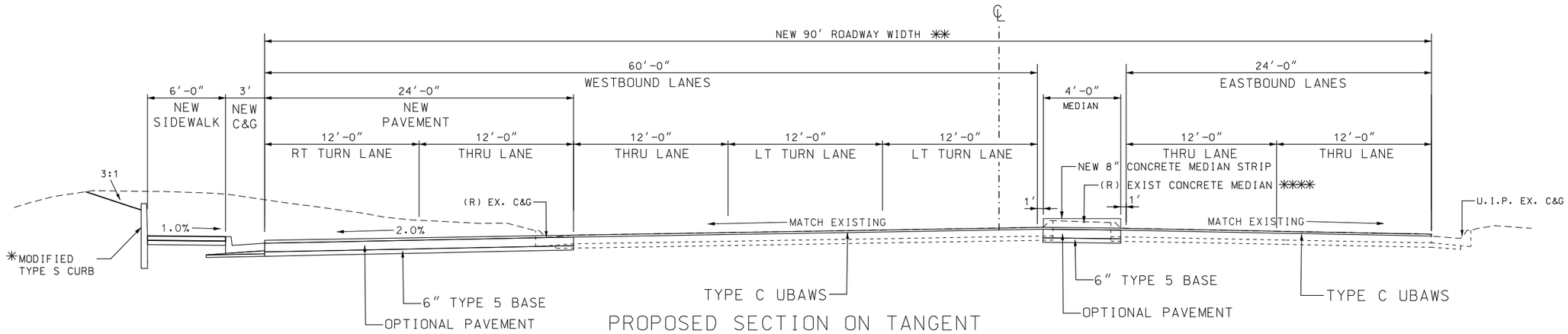
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	8/5/2021
ROUTE	744/160
STATE	MO
DISTRICT	SW
SHEET NO.	2
COUNTY	GREENE
JOB NO.	J8P3087D
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

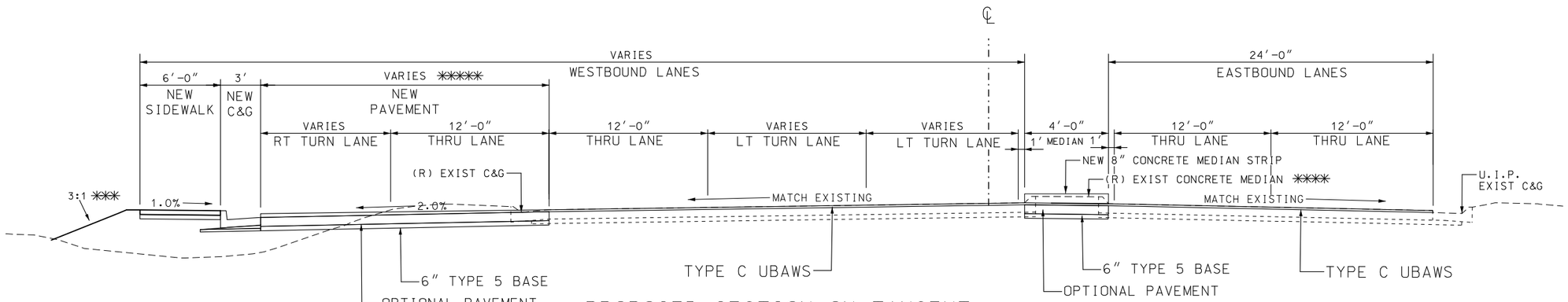
DATE	DESCRIPTION

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

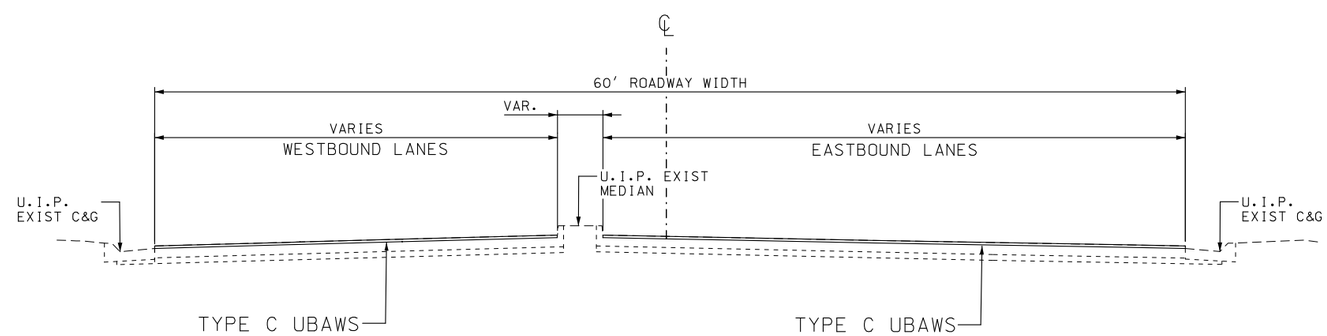
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



PROPOSED SECTION ON TANGENT
MO 744 (KEARNEY ST.)
STA. 968+35.78 TO STA. 969+40.00



PROPOSED SECTION ON TANGENT
MO 744 (KEARNEY ST.)
STA. 969+40.01 TO STA. 972+45.57



PROPOSED SECTION ON TANGENT
MO 744 (KEARNEY ST.)
STA. 972+45.58 TO STA. 974+87.72

NOTES:

✱ TRANSITION MODIFIED S CURB HEIGHT FROM 2.5' TALL AT STA. 968+70.00 TO 0' TALL AT STA. 969+40.00. TRANSITION S CURB DEPTH FROM 2.5' DEEP AT STA. 968+70.00 TO 1.5' DEEP AT STA. 969+12.00. MAINTAIN CURB DEPTH OF 1.5' TO STA. 969+40.00. SEE TYPICAL SECTION SHEET #14 FOR DETAILS.

✱✱ FULL 90' ROADWAY WIDTH AT STA. 968+35.78 TO STA. 970+40.85.

✱✱✱ TRANSITION SLOPE FROM 3:1 AT STA. 971+30.00 TO 2:1 AT STA. 971+40.00. TRANSITION SLOPE BACK TO 3:1 FROM STA. 971+65.00 TO STA. 971+75.00.

✱✱✱✱ EXISTING CONCRETE MEDIAN TO BE REMOVED FROM STA. 967+42.69 TO STA. 971+00.00. LEAVE REMAINING MEDIAN IN PLACE.

✱✱✱✱✱ 2' PAVEMENT WIDTH FROM STA. 972+25.24 TO STA. 972+45.57.

TYPICAL SECTION SHEET
MO 744 (KEARNEY ST.) EAST LEG
SHEET 7 OF 14

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
9/23/2021	
ROUTE	STATE
744/160	MO
DISTRICT	SHEET NO.
SW	2
COUNTY	
GREENE	
JOB NO.	
J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

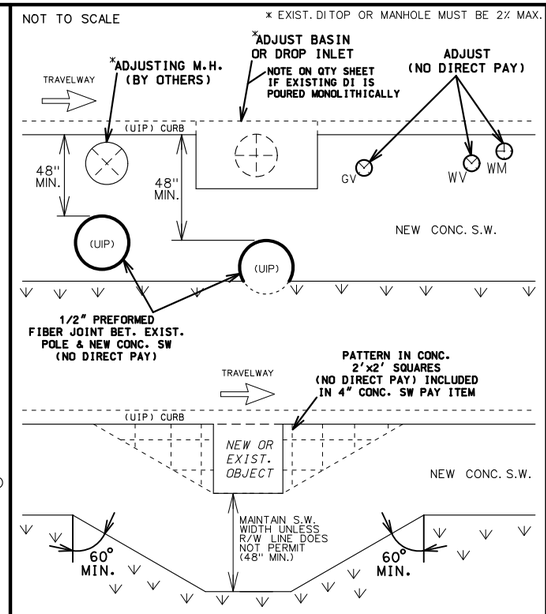
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

1. CONCRETE SIDEWALK, CURB RAMP AND DETECTABLE WARNING DEVICE (TRUNCATED DOMES) DETAILS SHALL CONFORM TO ADA REQUIREMENTS UNLESS NOTED OTHERWISE IN THESE PLANS. FOR SIDEWALK JOINT AND CURB DETAILS, SEE STANDARD PLAN 609.00.
2. TINTED CONCRETE SHALL NOT BE USED. TRUNCATED DOMES SHALL BE OF A COLOR CONTRASTING WITH UNTINTED CONCRETE AND APPROVED BY THE ENGINEER. TRUNCATED DOMES ARE REQ'D. AT STREET INTERSECTIONS AND COMMERCIAL ENTRANCES WITH TRAFFIC CONTROL ONLY. (STOP/YIELD SIGNS OR SIGNALS)
3. CONCRETE SHALL BE IN ACCORDANCE WITH SEC. 608 & SEC. 609. CURING COMPOUND SHALL BE TRANSPARENT.
4. ALL CONCRETE SIDEWALK AND CURB RAMP/TRANSITION/LANDING AREAS SHALL BE 4" THICK, WITH THE EXCEPTION OF THE BOTTOM TRANSITION WHICH TIES INTO THE EXISTING PAVED APPROACH AND ROADWAY. THIS TRANSITION, OR LANDING AREA, MUST BE 8" THICK IF IT FALLS WITHIN THE RADIUS OF THE APPROACH AND SITS AT THE BACK OF CURB OF THE ROADWAY. ALL CONCRETE SIDEWALK AND CURB RAMP/TRANSITION/LANDING AREAS SHALL BE ON 4" TYPE 1 AGGREGATE BASE.
5. AGGREGATE BASE DENSITY - CONTRACTOR SHALL EXERCISE GOOD COMPACTIVE EFFORT AS APPROVED BY THE ENGINEER. DENSITY REQUIREMENTS BY NUCLEAR METHOD WILL NOT BE REQUIRED DUE TO WORK AREA CONSTRAINTS.
6. CONCRETE CURB RAMP - WIDTH = 5' MIN. LENGTH = 5' MIN. TO 15' PREFERRED MAX. (16' MAX.)
   RUNNING SLOPE = >5% (MIN.) TO 8.33% (MAX.) UNIFORMLY DOWN THE LENGTH OF THE RAMP.

   CONCRETE LANDING - WIDTH = TO MATCH PROPOSED CURB RAMP AND SIDEWALK WIDTH LENGTH = 5' MIN.
   SLOPE IN ALL DIRECTIONS = 1% PREFFERED (2% MAX.) UNLESS TIED TO ROADWAY EXCEPTION.
7. ALL EXISTING UTILITIES SHALL BE USED IN PLACE UNLESS OTHERWISE NOTED. ALL MANHOLE OR VALVE COVER, ETC. ELEVATIONS SHALL BE ADJUSTED AS REQUIRED IF THEY ARE LOCATED WITHIN THE IMPROVEMENT AREA.
8. "PREFORMED FIBER JOINT" SHALL BE IN ACCORDANCE WITH SEC. 1057 FOR PREFORMED FIBER JOINT EXPANSION JOINT FILLER.
9. REINFORCING STEEL TIE BARS SHALL BE IN ACCORDANCE WITH SECTION 706. ALL REINFORCING STEEL SHALL BE EPOXY COATED AND USED AS APPROVED BY THE ENGINEER. WHERE TIE BARS ARE USED, THE CONCRETE SHALL BE 8" THICK (NO DIRECT PAY).
10. CONSTRUCTION AND LENGTH OF EACH CURB RAMP INCLUDING LANDINGS AND TRANSITION AREAS SHALL BE AS SHOWN ON THE PLANS UNLESS DIFFERING FIELD CONDITIONS ARE FOUND OR AS APPROVED BY THE ENGINEER. CURB RAMP CROSS SLOPES SHALL BE 1% PREFFERED (2% MAX.) TOWARD THE STREET. CURB RAMPS ARE TO BE FORMED UP AND HAVE A TRUE AND STRAIGHT LINE.
11. SIDEWALK AND CONCRETE CURB SHALL BE POURED MONOLITHICALLY. THE CONTRACTOR SHALL MATCH EXISTING GROUND SLOPES ADJACENT TO THE CURB RAMPS OR USE AN ALTERNATE METHOD APPROVED BY THE ENGINEER.
12. S-CURB 12"-30" HIGH (MODIFIED S-CURB) WILL REQUIRE #4 REINFORC. BARS ON MAX. 12" CENTERS - SEE DETAIL (NO DIRECT PAY)
13. SODDED SLOPES AT EDGES OF SIDEWALK OR S-CURB SHOULD BE GRADED TO BE 6:1 MIN.

NOT TO SCALE

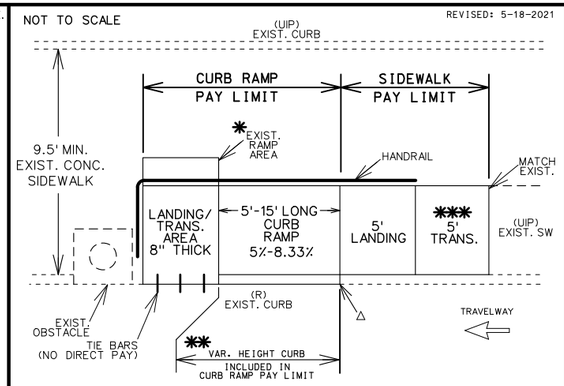


UTILITIES OR VARIOUS OBSTACLES

NO UTILITY POLES ARE ALLOWED IN THE RAMP LIMITS, BUT ARE PERMITTED IN THE LANDING AREAS AND SIDEWALK WITH A MINIMUM OF 4' CLEARANCE AROUND THE POLE

NOT TO SCALE

REVISED: 5-18-2021



△ MATCH EXIST CURB

* FILL IN WHERE EXIST. RAMP WAS. SIZE WILL VARY. (SEE TYPICAL SHEET)

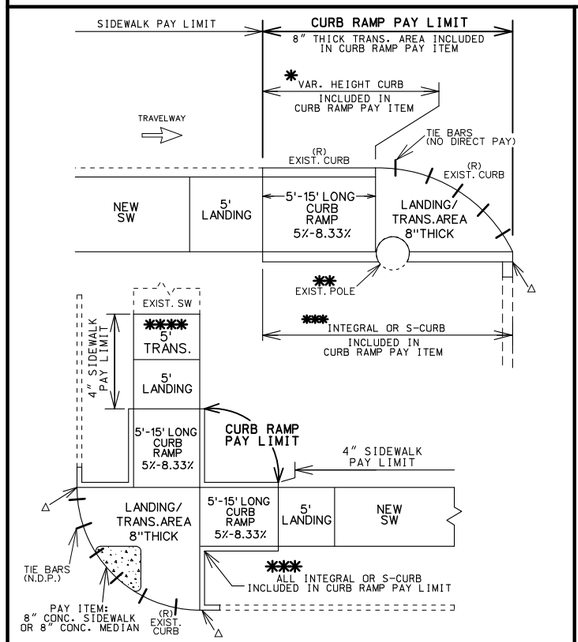
** VAR. HEIGHT CURB ALONG ROADSIDE MAY BE CONSTRUCTED MONOLITHIC OR SEPERATE DEPENDING ON CONST. OPERATIONS.

*** TO BLEND CROSS SLOPE DISCREPENCY

HANDRAIL 2' OFF E.O.P (SEE HANDRAIL STANDARDS)

CURB RAMP - IN EXISTING 9.5'+ WIDE SW

PAY LIMITS



△ MATCH EXIST CURB HEIGHT, OPTIONAL 1' TIE-IN TO EXIST CURB

* VAR. HEIGHT CURB ALONG ROADSIDE MAY BE CONST. MONOLITHIC OR SEP. DEPENDING ON CONST. OPERATIONS.

** NO UTILITY POLES ARE ALLOWED IN THE RAMP LIMITS, BUT ARE PERMITTED IN THE LANDING AND TRANSITION AREAS.

*** TYPE OF CURB WILL DEPEND ON FIELD CONDITIONS.

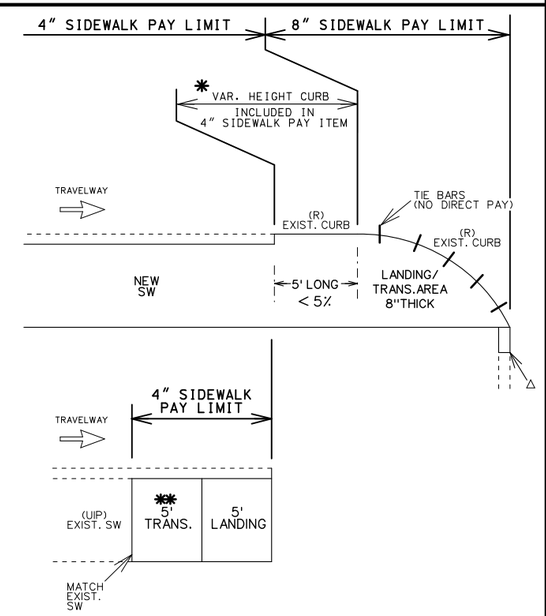
**** TO BLEND CROSS SLOPE DISCREPENCY

CURB RAMP

PAY LIMITS

WHEN RAMP AREA IS LONGER THEN 5' AND BET. 5%-8.33% GRADE, IT IS CONSIDERED A CURB RAMP

NOT TO SCALE



△ MATCH EXIST CURB HEIGHT (1' TAPER FROM SIDEWALK UP TO EXIST CURB HEIGHT)

* VAR. HEIGHT CURB ALONG ROADSIDE MAY BE CONSTRUCTED MONOLITHIC OR SEPERATE DEPENDING ON CONST. OPERATIONS. DOWEL TO EXIST. GUTTER/PAVEMENT (NO DIRECT PAY).

** TO BLEND CROSS SLOPE DISCREPENCY

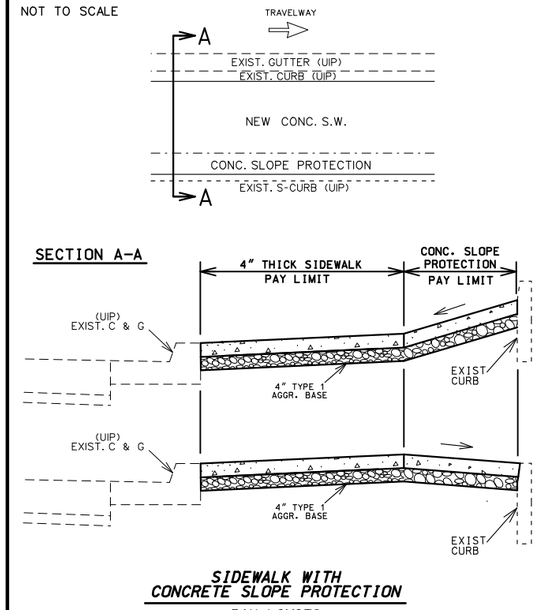
SIDEWALK

PAY LIMITS

WHEN RAMP AREA IS 5' LONG AND LESS THEN 5% GRADE, IT IS CONSIDERED SIDEWALK

NOT TO SCALE

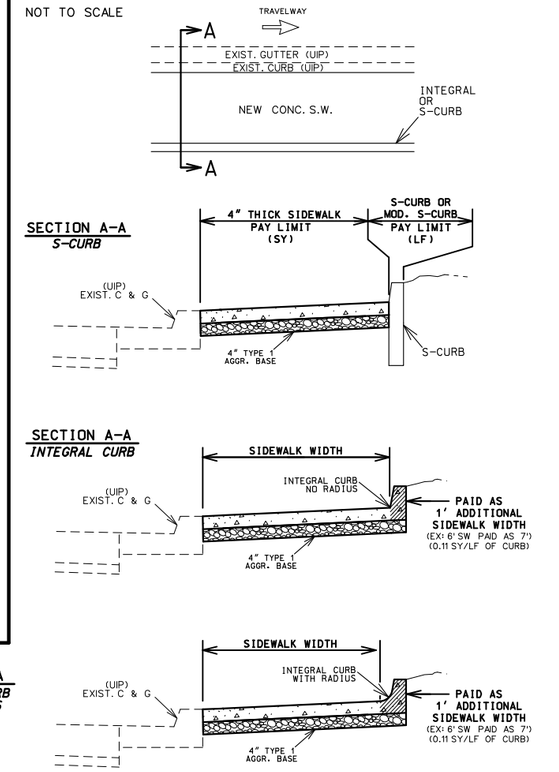
NOT TO SCALE



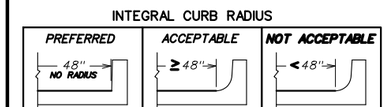
SIDEWALK WITH CONCRETE SLOPE PROTECTION

PAY LIMITS

NOT TO SCALE



INTEGRAL CURB RADIUS



SECTION A-A
INTEGRAL CURB WITH RADIUS

SIDEWALK WITH CURB

PAY LIMITS

TYPICAL SHEET
SHEET 8 OF 14

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/5/2021	
ROUTE	STATE
744/160	MO
DISTRICT	SHEET NO.
SW	2
COUNTY	
GREENE	
JOB NO.	
J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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

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

REVISED: 07-16-2019

PERPENDICULAR – TYPE 1

TYPE 1-A

LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	10.0	12.0	–	10.0	12.0	–	10.0	12.0	
CURB RAMP	SY	–	8.2	12.8	–	10.8	12.7	–	13.5	15.8	
CONC. SIDEWALK	SY	–	5.6	6.4	–	5.6	6.4	–	4.9	6.4	
TYPE 1 AGGREGATE	SY	–	13.8	16.0	–	16.4	19.1	–	18.3	22.2	
ADA LINEAR GRADING	LF	–	22.0	22.0	–	27.5	27.5	–	30.0	30.5	
SODDING	SY	–	5.8	5.7	–	6.8	6.9	–	7.5	7.9	

TYPE 1-B

LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	22.0	24.0	–	22.0	24.0	–	22.0	24.0	
CURB RAMP	SY	–	10.9	13.1	–	13.6	16.3	–	16.2	19.3	
CONC. SIDEWALK	SY	–	5.6	6.3	–	5.6	6.4	–	4.9	5.7	
TYPE 1 AGGREGATE	SY	–	16.5	19.4	–	19.2	22.7	–	21.1	25.0	
ADA LINEAR GRADING	LF	–	28.0	28.0	–	34.5	34.5	–	38.0	38.0	
SODDING	SY	–	7.4	7.8	–	8.4	8.7	–	9.1	9.5	

TYPE 1-C

LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	10.0	12.0	–	10.0	12.0	–	10.0	12.0	
CURB RAMP	SY	–	8.8	10.3	–	11.5	13.4	–	14.1	16.5	
CONC. SIDEWALK	SY	–	5.6	6.4	–	5.6	6.4	–	4.9	5.7	
TYPE 1 AGGREGATE	SY	–	14.4	16.7	–	17.1	19.8	–	19.0	22.1	
ADA LINEAR GRADING	LF	–	22.0	22.0	–	26.5	26.5	–	30.0	30.0	
SODDING	SY	–	11.5	11.7	–	13.5	13.5	–	15.0	15.2	

TYPE 1-D

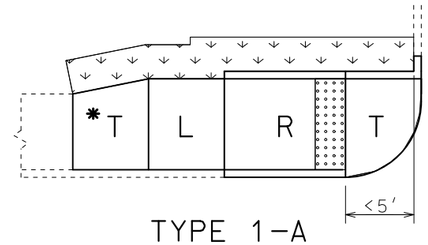
LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	18.0	24.0	–	18.0	24.0	–	18.0	24.0	
CURB RAMP	SY	–	18.6	22.8	–	24.0	29.0	–	29.3	35.3	
CONC. SIDEWALK	SY	–	11.2	12.8	–	11.2	12.8	–	9.8	11.4	
TYPE 1 AGGREGATE	SY	–	29.8	35.6	–	35.2	41.8	–	39.1	46.7	
ADA LINEAR GRADING	LF	–	42.0	50.0	–	57.0	61.0	–	67.0	72.0	
SODDING	SY	–	11.0	11.3	–	13.0	13.3	–	14.5	14.9	

TYPE 1-E

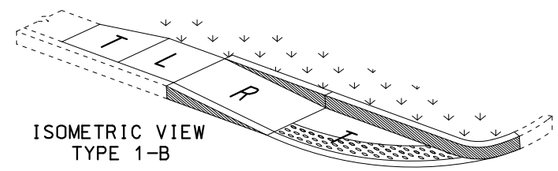
LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	18.0	24.0	–	18.0	24.0	–	18.0	24.0	
CURB RAMP	SY	–	14.8	19.0	–	20.1	25.2	–	25.5	31.4	
CONC. SIDEWALK	SY	–	11.2	12.8	–	11.2	12.8	–	9.8	11.4	
TYPE 1 AGGREGATE	SY	–	26.0	31.8	–	31.3	38.0	–	35.3	42.8	
ADA LINEAR GRADING	LF	–	43.0	46.0	–	52.0	55.0	–	59.0	62.0	
SODDING	SY	–	13.3	13.6	–	16.0	16.9	–	18.6	19.3	

TYPE 1-F

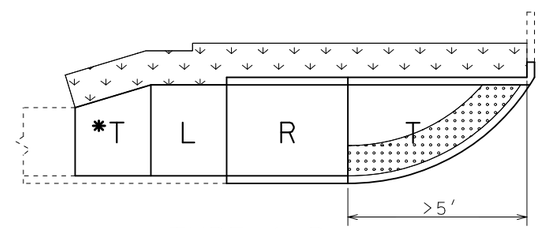
LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	14.0	16.0	–	14.0	16.0	–	14.0	16.0	
CURB RAMP	SY	–	15.5	19.0	–	20.8	25.2	–	26.2	31.4	
CONC. SIDEWALK	SY	–	11.2	12.8	–	11.2	12.8	–	9.8	11.4	
TYPE 1 AGGREGATE	SY	–	26.7	31.8	–	32.0	38.0	–	36.0	42.8	
ADA LINEAR GRADING	LF	–	43.0	46.0	–	52.0	55.0	–	59.0	62.0	
SODDING	SY	–	18.4	18.8	–	22.4	22.8	–	25.6	25.9	



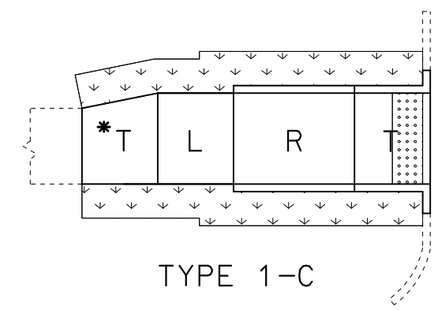
TYPE 1-A



ISOMETRIC VIEW
TYPE 1-B



TYPE 1-B



TYPE 1-C

T – IS TO BE 8" THICK AT ALL PAVED APPROACHES AND STREETS. PAID FOR AS CONCRETE CURB RAMP

T – TRANSITION TO EXISTING SW OR PAVED APPROACH (LANDING PREFERED AT PAVED APPROACH IF CONDITIONS ALLOW)

* – T IS STILL NEEDED EVEN IF THE EXISTING SIDEWALK IS THE SAME WIDTH AS THE NEW SIDEWALK.(IT WILL BLEND THE EXIST XSLOPE INTO THE NEW LANDING XSLOPE)

L – LANDING

R – RAMP

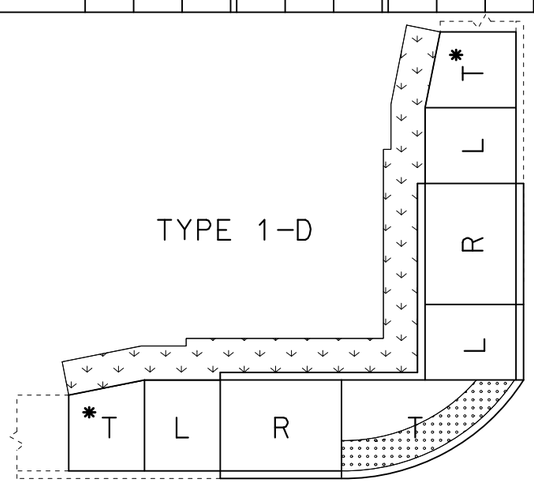
– CURB RAMP PAY LIMITS

– SOD SLOPE 6:1 MIN.

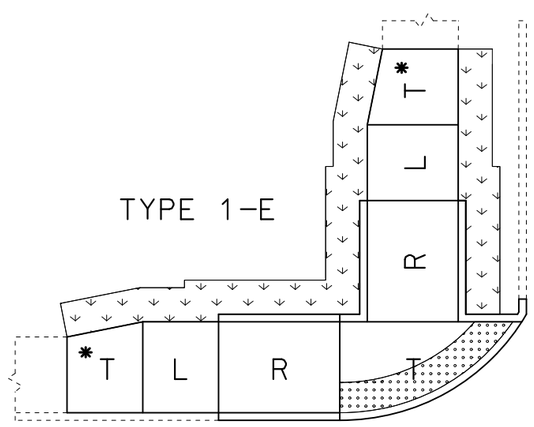
– TRUNCATED DOME LOCATION, IF DIST. IS <5' OR >5'

TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING YIELD / STOP SIGNS OR SIGNALS

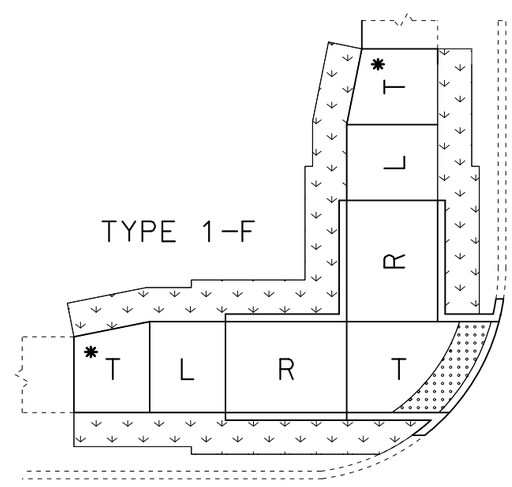
NOTE:
QUANTITIES ARE CALCULATED BY AREA AND MAY NOT MATCH EXACT FIELD CONDITIONS.



TYPE 1-D



TYPE 1-E



TYPE 1-F

TYPE 1

PERPENDICULAR CURB RAMPS

TYPICAL SHEET
9 OF 14

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/5/2021	
ROUTE	STATE
744/160	MO
DISTRICT	SHEET NO.
SW	2
COUNTY	
GREENE	
JOB NO.	
J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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

PARRALLEL – TYPE 2

TYPE 2-A

LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	10.0	10.0	–	10.0	10.0	–	10.0	10.0	
CURB RAMP	SY	–	9.1	10.6	–	11.8	13.7	–	14.4	16.8	
CONC. SIDEWALK	SY	–	5.6	6.4	–	4.9	5.7	–	4.9	5.7	
TYPE 1 AGGREGATE	SY	–	14.7	17.0	–	16.7	19.4	–	19.3	22.5	
ADA LINEAR GRADING	LF	–	26.0	26.0	–	29.0	29.0	–	33.0	33.0	
SODDING	SY	–	8.0	8.3	–	8.6	8.8	–	9.6	9.8	

TYPE 2-B

LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	10.0	10.0	–	10.0	10.0	–	10.0	10.0	
CURB RAMP	SY	–	11.8	13.3	–	14.5	16.4	–	17.2	19.5	
CONC. SIDEWALK	SY	–	5.6	6.4	–	4.9	5.7	–	4.9	5.7	
TYPE 1 AGGREGATE	SY	–	17.4	19.7	–	19.4	22.1	–	22.1	25.2	
ADA LINEAR GRADING	LF	–	26.0	26.0	–	29.0	29.0	–	33.0	33.0	
SODDING	SY	–	13.8	14.1	–	15.1	15.5	–	17.1	17.5	

TYPE 2-C

LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	10.0	10.0	–	10.0	10.0	–	10.0	10.0	
CURB RAMP	SY	–	16.4	18.7	–	21.7	24.9	–	27.0	31.2	
CONC. SIDEWALK	SY	–	11.2	12.8	–	9.8	11.4	–	9.8	11.4	
TYPE 1 AGGREGATE	SY	–	27.6	31.5	–	31.5	36.3	–	36.8	42.6	
ADA LINEAR GRADING	LF	–	41.0	41.0	–	47.0	47.0	–	55.0	55.0	
SODDING	SY	–	12.3	12.5	–	13.6	13.9	–	15.6	15.9	

TYPE 2-D

LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	10.0	10.0	–	10.0	10.0	–	10.0	10.0	
CURB RAMP	SY	–	16.8	19.2	–	22.2	25.4	–	27.5	31.6	
CONC. SIDEWALK	SY	–	11.2	12.8	–	9.8	11.4	–	9.8	11.4	
TYPE 1 AGGREGATE	SY	–	28.0	32.0	–	32.0	36.8	–	37.3	43.0	
ADA LINEAR GRADING	LF	–	41.0	41.0	–	47.0	47.0	–	55.0	55.0	
SODDING	SY	–	20.2	20.3	–	22.4	23.2	–	26.4	27.2	

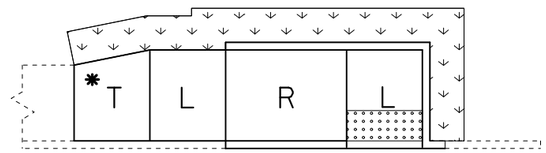
TYPE 2-E

LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	10.0	10.0	–	10.0	10.0	–	10.0	10.0	
CURB RAMP	SY	–	10.8	11.5	–	13.2	14.4	–	15.7	17.3	
CONC. SIDEWALK	SY	–	5.6	6.7	–	5.0	6.0	–	5.0	6.0	
TYPE 1 AGGREGATE	SY	–	16.4	18.2	–	18.2	20.4	–	20.7	23.3	
ADA LINEAR GRADING	LF	–	22.5	22.5	–	26.5	26.5	–	30.5	30.5	
SODDING	SY	–	–	–	–	–	–	–	–	–	
HANDRAIL	LF	–	–	–	–	–	–	–	–	–	SEE STANDARDS FOR LENGTH

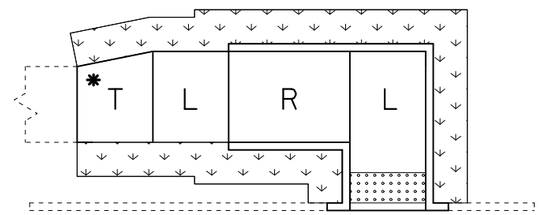
TYPE 2-F

LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	10.0	10.0	–	10.0	10.0	–	10.0	10.0	
CURB RAMP	SY	–	15.5	17.1	–	20.4	23.1	–	25.5	28.9	
CONC. SIDEWALK	SY	–	11.2	13.4	–	10.0	12.0	–	10.0	12.0	
TYPE 1 AGGREGATE	SY	–	26.7	30.5	–	30.4	35.1	–	35.5	40.9	
ADA LINEAR GRADING	LF	–	39.0	39.0	–	47.0	47.0	–	55.0	55.0	
SODDING	SY	–	–	–	–	–	–	–	–	–	
HANDRAIL	LF	–	–	–	–	–	–	–	–	–	SEE STANDARDS FOR LENGTH

NOTE:
QUANTITIES ARE CALCULATED BY AREA AND MAY NOT MATCH EXACT FIELD CONDITIONS.



TYPE 2-A



TYPE 2-B

** 3.5' LANDING EXTENSION REQ'D. FOR INSTALLATION OF FUTURE OR NEW PED.PUSH BUTTON

NOTE: SEE STANDARDS FOR ALL PED. PUSH BUTTON LOCATIONS

– TRUNCATED DOME

TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING YIELD / STOP SIGNS OR SIGNALS

T – TRANSITION TO EXISTING SW

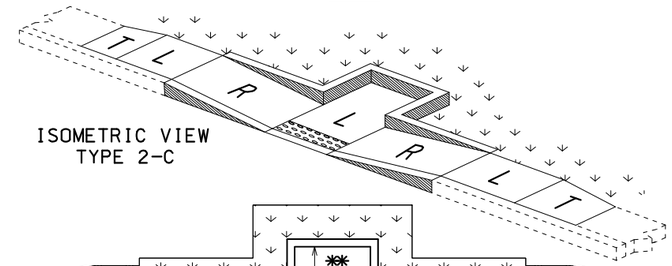
* – T IS STILL NEEDED EVEN IF THE EXISTING SIDEWALK IS THE SAME WIDTH AS THE NEW SIDEWALK.(IT WILL BLEND THE EXIST XSLOPE INTO THE NEW LANDING XSLOPE)

L – LANDING

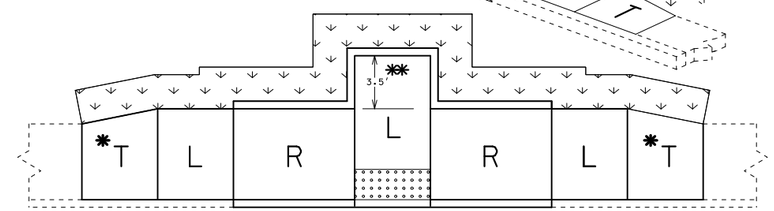
R – RAMP

– SOD SLOPE 6:1 MIN.

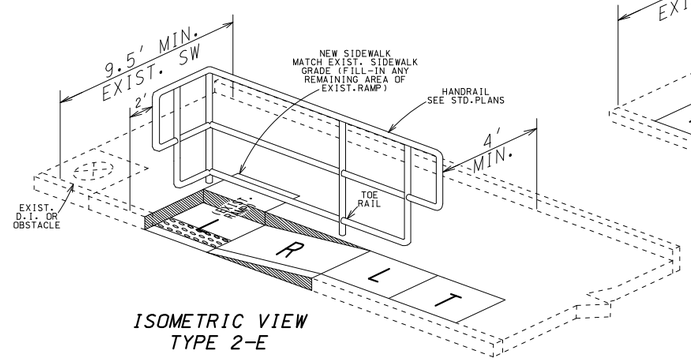
– CURB RAMP PAY LIMITS



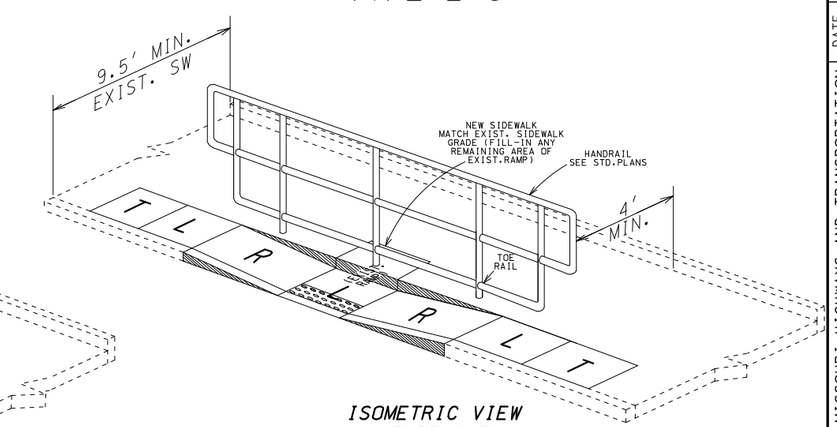
ISOMETRIC VIEW
TYPE 2-C



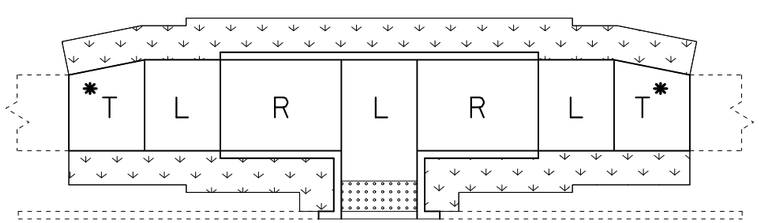
TYPE 2-C



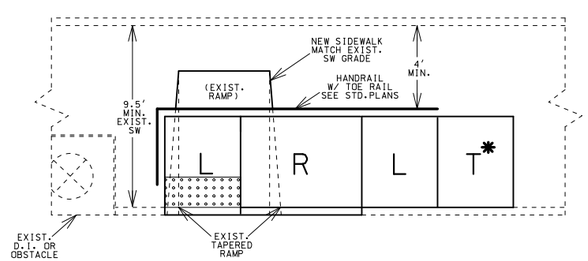
ISOMETRIC VIEW
TYPE 2-E



ISOMETRIC VIEW
TYPE 2-F



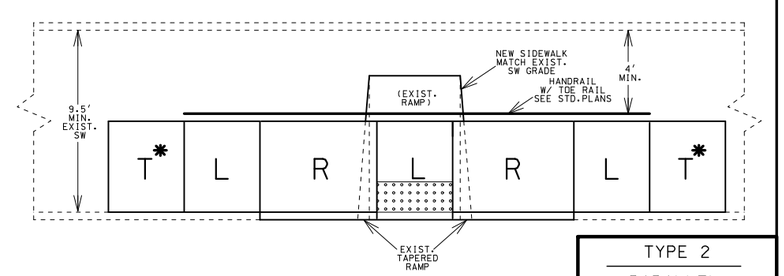
TYPE 2-D



TYPE 2-E

USE ONLY WHEN TYPE 2-F IS UNABLE TO BE CONSTRUCTED DUE TO AN EXIST. D.I. OR OTHER OBSTACLE

SEE STANDARDS FOR HANDRAIL SPECS



TYPE 2-F

SEE STANDARDS FOR HANDRAIL SPECS

TYPE 2

PARALLEL
CURB RAMPS

TYPICAL SHEET
10 OF 14

REVISED: 02-22-2017

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/5/2021

ROUTE	STATE
744/160	MO
DISTRICT	SHEET NO.
SW	2

COUNTY
GREENE

JOB NO.
J8P3087D

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

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

REVISED: 02-22-2017

PARRALLEL - TYPE 2 (cont'd.)

TYPE 2-G

LENGTH (LF)	8			12			16			REMARKS
WIDTH (LF)	4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES SF	-	12.0	12.0	-	10.0	10.0	-	10.0	10.0	
CURB RAMP SY	-	15.7	18.0	-	20.8	23.7	-	25.8	30.2	
CONC. SIDEWALK SY	-	21.4	25.0	-	17.6	20.3	-	15.2	17.5	
TYPE 1 AGGREGATE SY	-	37.1	43.0	-	38.4	44.0	-	41.0	47.7	
ADA LINEAR GRADING LF	-	52.0	52.0	-	54.0	54.0	-	58.0	58.0	
SODDING SY	-	13.6	13.6	-	13.7	13.5	-	14.5	14.9	

TYPE 2-H

LENGTH (LF)	8			12			16			REMARKS
WIDTH (LF)	4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES SF	-	12.0	12.0	-	10.0	10.0	-	10.0	10.0	
CURB RAMP SY	-	15.7	18.0	-	21.0	24.5	-	26.9	31.4	
CONC. SIDEWALK SY	-	13.2	16.0	-	12.0	14.2	-	12.0	14.4	
TYPE 1 AGGREGATE SY	-	28.9	34.0	-	33.0	38.6	-	38.9	45.8	
ADA LINEAR GRADING LF	-	42.0	42.0	-	49.0	49.0	-	55.0	55.0	
SODDING SY	-	11.1	11.2	-	12.5	12.5	-	14.5	14.9	

T* - IS STILL NEEDED EVEN IF THE EXISTING SIDEWALK IS THE SAME WIDTH AS THE NEW SIDEWALK.(IT WILL BLEND THE EXIST XSLOPE INTO THE NEW LANDING XSLOPE)

T - TRANSITION TO EXISTING SW

L - LANDING

R - RAMP

- SOD SLOPE 6:1 MIN.

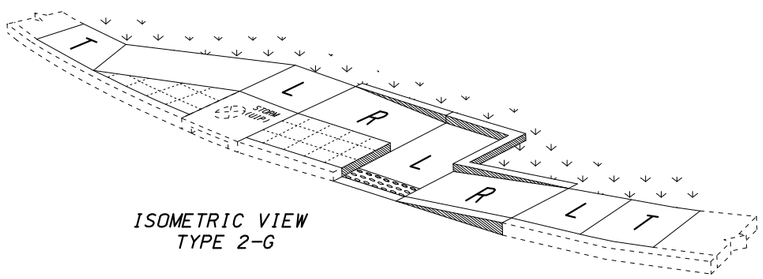
- TRUNCATED DOME LOCATION, IF DIST. IS <5' OR > 5'

TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING YIELD / STOP SIGNS OR SIGNALS

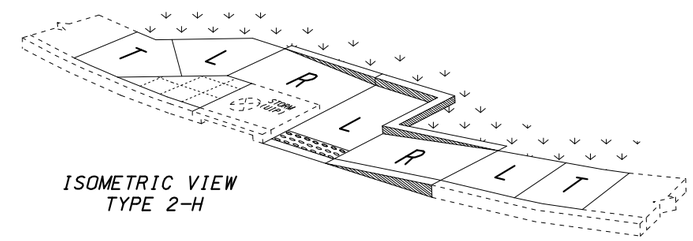
- CURB RAMP PAY LIMITS

- INCLUDED IN 4" CONC. SIDEWALK PAY LIMIT

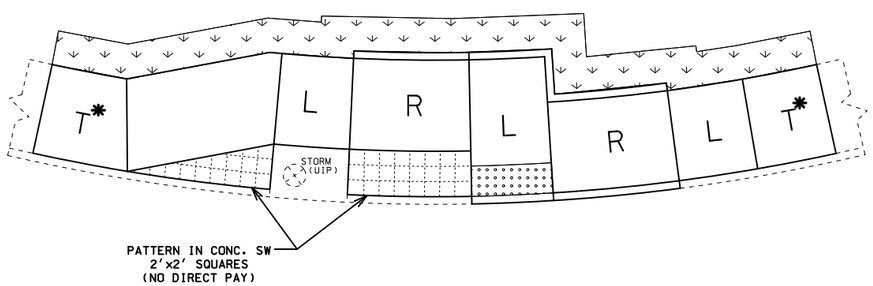
NOTE:
QUANTITIES ARE CALCULATED BY AREA AND MAY NOT MATCH EXACT FIELD CONDITIONS.



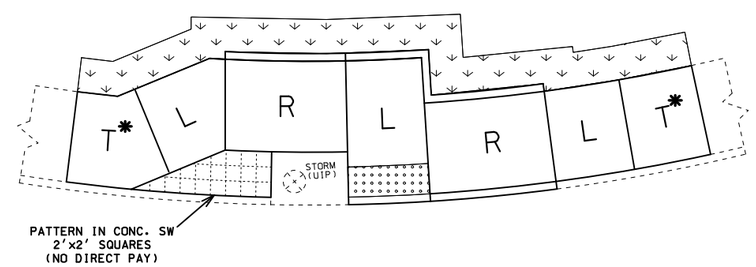
ISOMETRIC VIEW
TYPE 2-G



ISOMETRIC VIEW
TYPE 2-H



TYPE 2-G



TYPE 2-H

TYPE 2
PARALLEL CURB RAMPS

TYPICAL SHEET
11 OF 14

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/5/2021

ROUTE	STATE
744/160	MO
DISTRICT	SHEET NO.
SW	2

COUNTY
GREENE

JOB NO.
J8P3087D

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

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

DIAGONAL - TYPE 3

TYPE 3-A

LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	24.0	28.0	–	20.6	25.0	–	20.6	25.0	
CURB RAMP	SY	–	24.4	27.0	–	26.9	31.2	–	32.2	37.4	
CONC. SIDEWALK	SY	–	11.2	12.8	–	9.8	11.4	–	9.8	11.4	
TYPE 1 AGGREGATE	SY	–	35.6	39.8	–	36.7	42.6	–	42.0	48.8	
ADA LINEAR GRADING	LF	–	51.0	51.0	–	59.0	59.0	–	67.0	67.0	
SODDING	SY	–	11.6	11.4	–	12.9	12.9	–	14.9	14.9	
8" MED STRIP	SY	–	3.0	2.2	–	3.0	2.2	–	3.0	2.2	

TYPE 3-B

LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	24.0	28.0	–	20.6	25.0	–	20.6	25.0	
CURB RAMP	SY	–	22.0	26.3	–	25.9	31.2	–	31.2	37.4	
CONC. SIDEWALK	SY	–	11.2	12.8	–	9.8	11.4	–	9.8	11.4	
TYPE 1 AGGREGATE	SY	–	33.2	39.1	–	35.7	42.6	–	41.0	48.8	
ADA LINEAR GRADING	LF	–	51.0	51.0	–	59.0	59.0	–	67.0	67.0	
SODDING	SY	–	15.2	15.3	–	17.1	17.5	–	20.1	20.5	
8" MED STRIP	SY	–	1.5	1.5	–	1.5	1.5	–	1.5	1.5	

TYPE 3-C

LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	20.0	24.0	–	20.0	24.0	–	20.0	24.0	
CURB RAMP	SY	–	20.7	26.8	–	25.1	31.5	–	30.4	37.7	
CONC. SIDEWALK	SY	–	11.2	12.8	–	9.8	11.4	–	9.8	11.4	
TYPE 1 AGGREGATE	SY	–	31.9	39.6	–	34.9	42.9	–	40.2	49.1	
ADA LINEAR GRADING	LF	–	51.0	51.0	–	58.0	58.0	–	67.0	67.0	
SODDING	SY	–	18.8	19.3	–	21.3	22.1	–	25.3	26.1	
8" MED STRIP	SY	–	1.0	1.6	–	1.0	1.6	–	1.0	1.6	

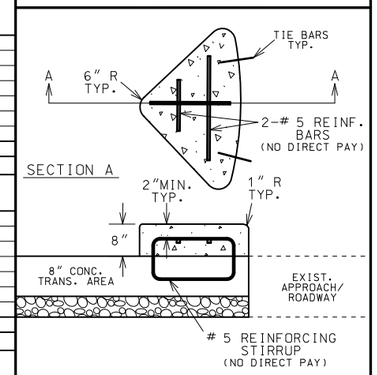
TYPE 3-D

LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	24.0	28.0	–	22.4	26.5	–	22.4	26.5	
CURB RAMP	SY	–	15.9	19.1	–	17.7	21.4	–	20.4	24.5	
CONC. SIDEWALK	SY	–	5.6	6.4	–	4.9	5.7	–	4.9	5.7	
TYPE 1 AGGREGATE	SY	–	21.5	25.5	–	22.6	27.1	–	25.3	30.2	
ADA LINEAR GRADING	LF	–	31.0	31.0	–	34.0	34.0	–	38.0	38.0	
SODDING	SY	–	12.6	12.9	–	13.5	14.0	–	15.5	16.0	
8" MED STRIP	SY	–	1.0	0.8	–	1.0	0.8	–	1.0	0.8	

TYPE 3-E

LENGTH (LF)		8			12			16			REMARKS
WIDTH (LF)		4	5	6	4	5	6	4	5	6	
TRUNCATED DOMES	SF	–	20.0	24.0	–	20.0	24.0	–	20.0	24.0	
CURB RAMP	SY	–	17.2	19.8	–	17.7	21.4	–	20.4	24.5	
CONC. SIDEWALK	SY	–	8.4	10.7	–	7.3	9.4	–	7.3	9.4	
TYPE 1 AGGREGATE	SY	–	25.6	30.5	–	25.0	30.8	–	27.7	33.9	
ADA LINEAR GRADING	LF	–	30.0	30.0	–	35.5	35.5	–	39.5	39.5	
SODDING	SY	–	12.4	12.4	–	12.9	13.3	–	14.9	15.3	
8" MED STRIP	SY	–	1.6	1.6	–	1.6	1.6	–	1.6	1.6	

- DETAIL - 8" MEDIAN STRIP



T - IS TO BE 8" THICK AT ALL PAVED APPROACHES AND STREETS. PAID FOR AS CONCRETE CURB RAMP

NOTE:
QUANTITIES ARE CALCULATED BY AREA AND MAY NOT MATCH EXACT FIELD CONDITIONS.

T - TRANSITION TO EXISTING SW OR PAVED APPROACH (LANDING PREFERED IF CONDITIONS ALLOW)

T* - IS STILL NEEDED EVEN IF THE EXISTING SIDEWALK IS THE SAME WIDTH AS THE NEW SIDEWALK.(IT WILL BLEND THE EXIST XSLOPE WITH THE NEW LANDING XSLOPE)

L - LANDING

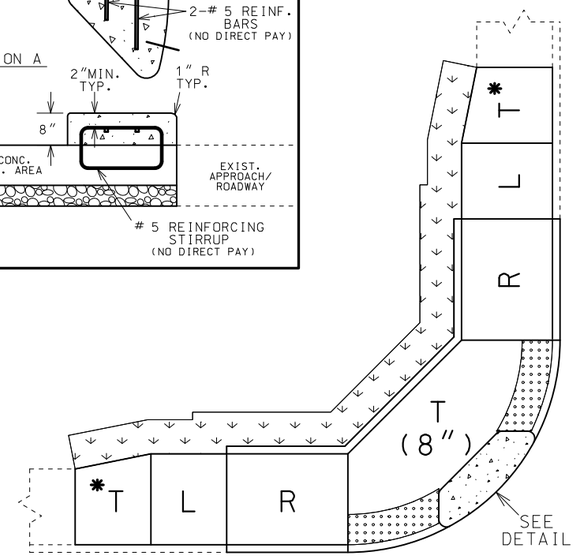
R - RAMP

- CURB RAMP PAY LIMITS

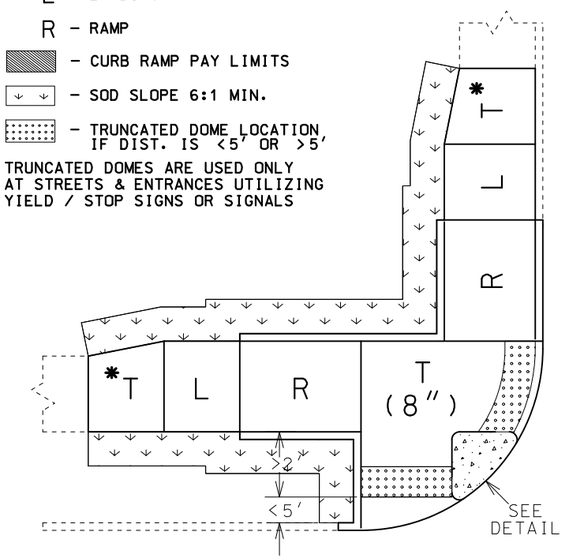
- SOD SLOPE 6:1 MIN.

- TRUNCATED DOME LOCATION, IF DIST. IS <5' OR >5'

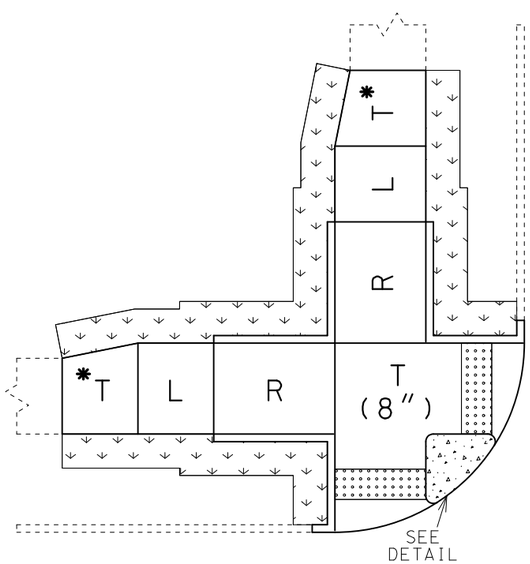
TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING YIELD / STOP SIGNS OR SIGNALS



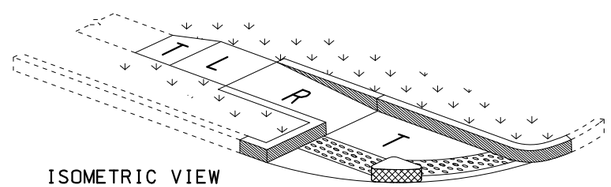
TYPE 3-A



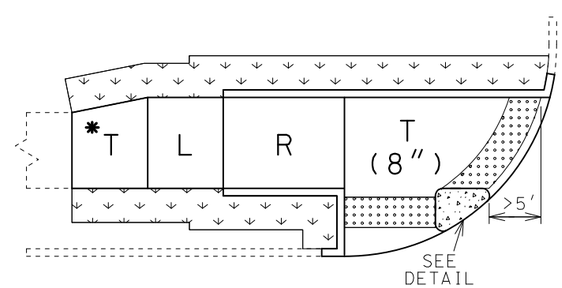
TYPE 3-B



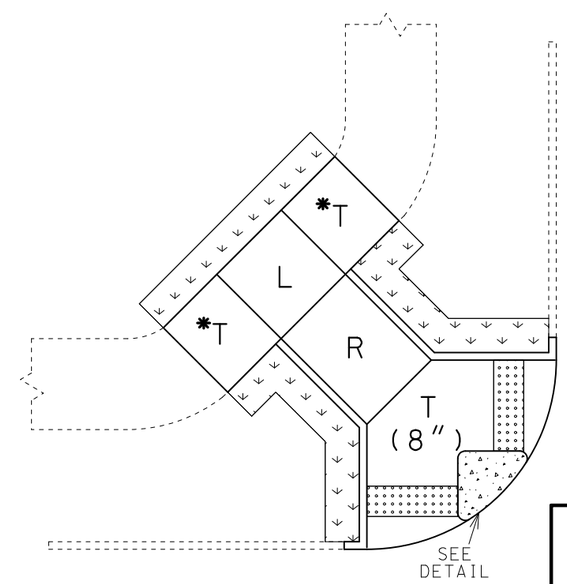
TYPE 3-C



ISOMETRIC VIEW
TYPE 3-D



TYPE 3-D



TYPE 3-E

TYPE 3
DIAGONAL CURB RAMPS

TYPICAL SHEET 12 OF 14

REVISED: 02-22-2017

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/5/2021

ROUTE	STATE
744/160	MO
DISTRICT	SHEET NO.
SW	2

COUNTY: GREENE
JOB NO.: J8P3087D
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

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

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

REVISED: 03-01-2018

NOTES FOR MODIFIED SIDEWALK:

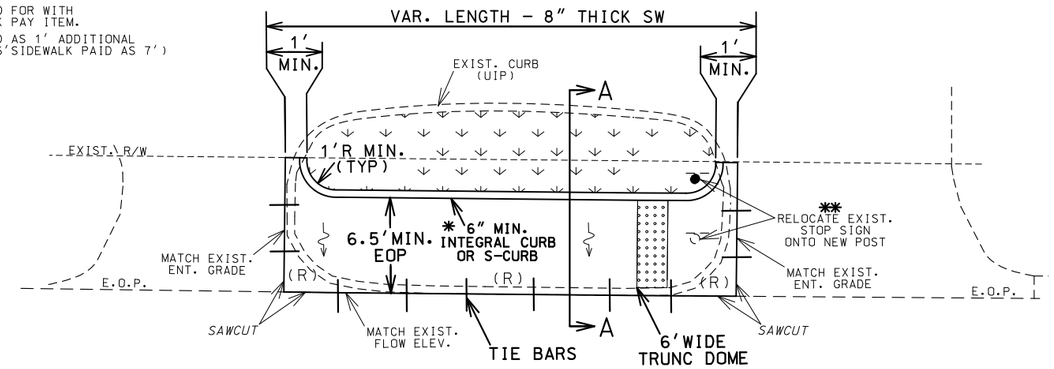
1. REMOVE EXIST. CURB & RAISED ISLAND WITHIN LIMITS SHOWN.
2. AREA INSIDE FINAL CURB TO BE REPAIRED OR REPLACED WITH EXISTING SURFACE MATERIAL. GRADE TO DRAIN.
3. CONSTRUCT 8" THICK CONC. SIDEWALK FLUSH WITH EXIST. CONC. PAVED APPROACH.
4. CONSTRUCT CURB ADJACENT TO MODIFIED SIDEWALK.
5. MODIFIED SIDEWALK PAID FOR AS 8" SIDEWALK.
6. 6' MINIMUM WIDTH.
7. NO DIRECT PAY FOR SAW CUTS AND TIE BARS (ON 12" CENTERS MAX.)
8. TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING STOP SIGNS OR SIGNALS.
9. X-SLOPE 1% PREFERRED (2% MAX.)
10. USE S-CURB IF CONSTRUCTING CURB ON R/W LINE.

TYPICAL MODIFIED SIDEWALK

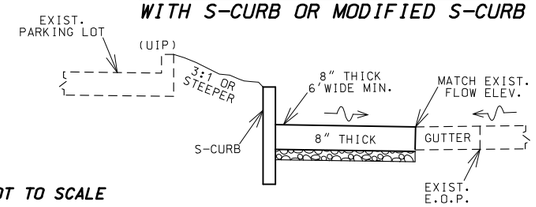
8" THICK

✱ INTEGRAL CURB IS PAID FOR WITH THE 8" CONC. SIDEWALK PAY ITEM.
INTEGRAL CURB IS PAID AS 1' ADDITIONAL SIDEWALK WIDTH (EX. 6'SIDEWALK PAID AS 7')
(0.11 SY/LF OF CURB)

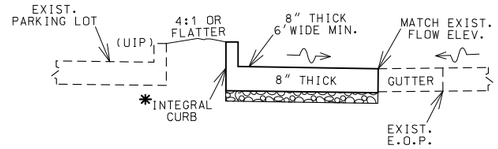
✱✱ TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING STOP/YIELD SIGNS OR SIGNALS.



SECTION A-A
WITH S-CURB OR MODIFIED S-CURB



SECTION A-A
WITH INTEGRAL CURB



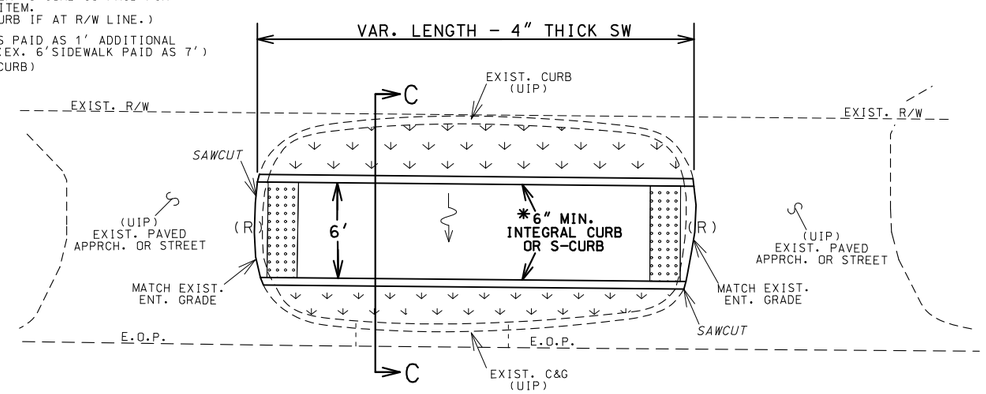
NOT TO SCALE

NOTES FOR CUT-THRU SIDEWALK:

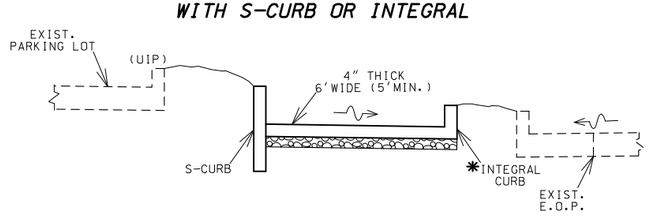
1. REMOVE EXIST. CURB & RAISED ISLAND WITHIN LIMITS SHOWN.
2. AREA INSIDE FINAL CURB TO BE REPAIRED OR REPLACED WITH EXISTING SURFACE MATERIAL. GRADE TO DRAIN.
3. CONSTRUCT 4" THICK CONC. SIDEWALK FLUSH WITH EXIST. CONC. PAVED APPROACH.
4. CONSTRUCT CURB ON BOTH SIDES ADJACENT TO SIDEWALK.
5. CUT-THRU SIDEWALK PAID FOR AS 4" SIDEWALK.
6. 6' PREFERRED WIDTH (5' MIN.)
7. SAW CUTS (NO DIRECT PAY).
8. TRUNCATED DOMES ARE USED ONLY AT STREETS & ENTRANCES UTILIZING STOP SIGNS OR SIGNALS.
9. X-SLOPE 1% PREFERRED (2% MAX.)
10. USE S-CURB IF CONSTRUCTING CURB ON R/W LINE.

TYPICAL CUT-THRU SIDEWALK

✱ INTEGRAL CURB IS PAID FOR AS 4" CONC. SIDEWALK PAY ITEM. S-CURB IS PAID FOR AS ITS OWN PAY ITEM.
(ALWAYS USE S-CURB IF AT R/W LINE.)
INTEGRAL CURB IS PAID AS 1' ADDITIONAL SIDEWALK WIDTH (EX. 6'SIDEWALK PAID AS 7')
(0.11 SY/LF OF CURB)



SECTION C-C
WITH S-CURB OR INTEGRAL

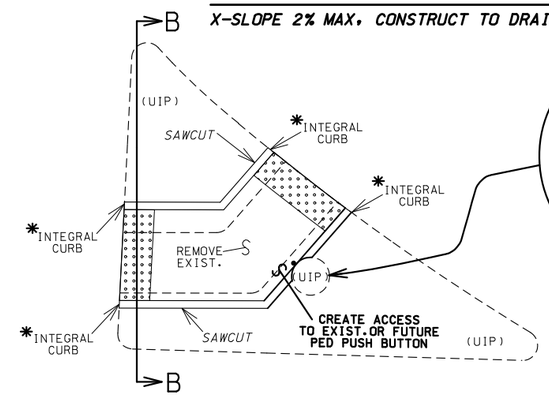


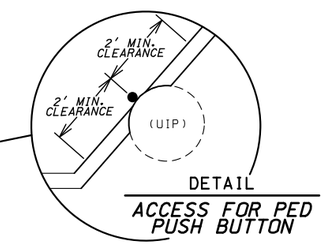
NOT TO SCALE

NOT TO SCALE

TYPICAL ISLAND CUT-THRU SIDEWALK

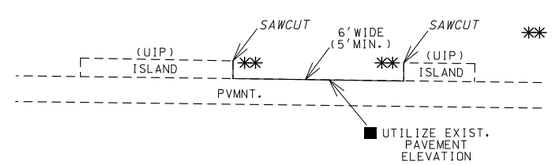
X-SLOPE 2% MAX. CONSTRUCT TO DRAIN





DETAIL
ACCESS FOR PED PUSH BUTTON

SECTION B-B
ISLAND CUT-THRU SIDEWALK FOR EXISTING 'PINNED-ON' ISLAND

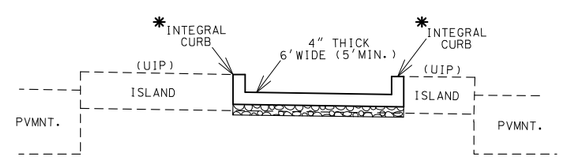


■ SMALL QTY. HAS BEEN INCLUDED FOR 8" THICK SIDEWALK TO ADDRESS ANY UNFORSEEN PVMNT. REPAIRS OR DIFFERENCES IN ELEVATION. (UNDERRUN IF FIELD CONDITIONS DO NOT WARRANT)

✱✱ NO INTEGRAL CURB. AGGR. OR LIN. GRADING REQUIRED IF THE ISLAND IS 'PINNED-ON'

✱ INTEGRAL CURB IS PAID FOR WITH THE 4" CONC. SIDEWALK PAY ITEM.
INTEGRAL CURB IS PAID AS 1' ADDITIONAL SIDEWALK WIDTH (EX. 6'SIDEWALK PAID AS 7')
(0.11 SY/LF OF CURB)

SECTION B-B
ISLAND CUT-THRU SIDEWALK



MODIFIED SIDEWALK AND SIDEWALK CUT-THRU's

TYPICAL SHEET 13 OF 14

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/5/2021	
ROUTE	STATE
744/160	MO
DISTRICT	SHEET NO.
SW	2
COUNTY	
GREENE	
JOB NO.	
J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

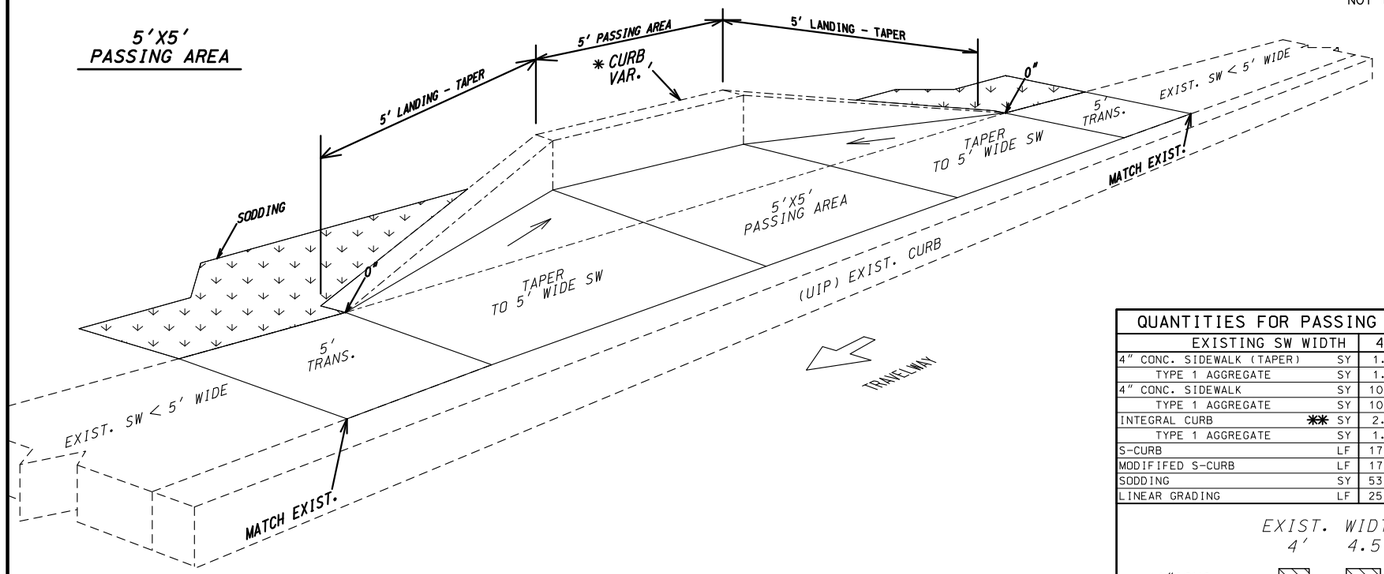
DESCRIPTION	DATE

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

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

NOT TO SCALE

5'X5' PASSING AREA

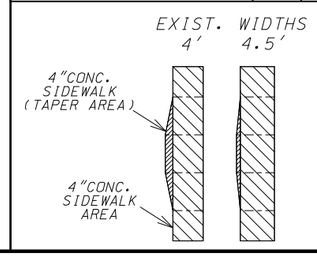


NOTES:

1. PASSING AREA REQUIRED EVERY 200' ON SIDEWALK THAT IS LESS THAN 5' WIDE.
2. * CURB MAY OR MAY NOT BE NEEDED DEPENDING ON FIELD CONDITIONS. IF CURB IS NEEDED, THE CURB HEIGHT WILL VARY DEPENDING ON FIELD CONDITIONS. (INTEGRAL CURB, S-CURB OR MOD. S-CURB).
3. S-CURB OVER 12" TALL IS PAID FOR AS 'MODIFIED S-CURB' AND REQUIRES REINFORCEMENT (NO DIRECT PAY). SEE DETAIL THIS SHEET.
4. ** INTEGRAL CURB IS PAID FOR IN THE 4" CONC. SIDEWALK PAY ITEM. PAID AS 1' ADDITIONAL SIDEWALK WIDTH. (EX. 6' SW PAID AS 7') (0.11 SY/LF OF CURB)

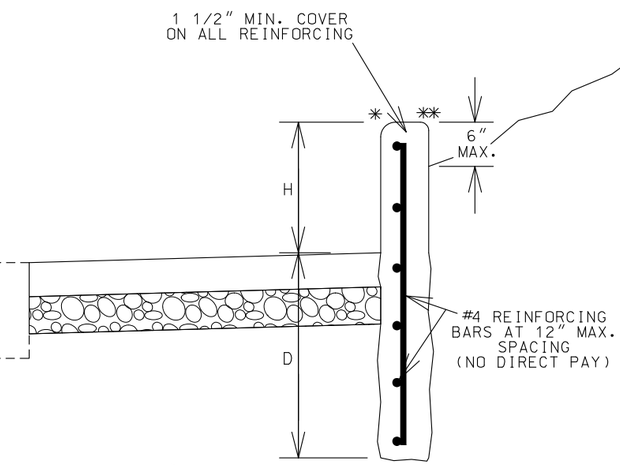
QUANTITIES FOR PASSING AREAS

EXISTING SW WIDTH		4'	4.5'
4" CONC. SIDEWALK (TAPER)	SY	1.3	0.7
TYPE 1 AGGREGATE	SY	1.3	0.7
4" CONC. SIDEWALK	SY	10.4	11.7
TYPE 1 AGGREGATE	SY	10.4	11.7
INTEGRAL CURB **	SY	2.0	2.0
TYPE 1 AGGREGATE	SY	1.0	1.0
S-CURB	LF	17.2	16.0
MODIFIFED S-CURB	LF	17.2	16.0
SODDING	SY	53.0	53.0
LINEAR GRADING	LF	25.0	25.0



REVISED: 10-22-2018

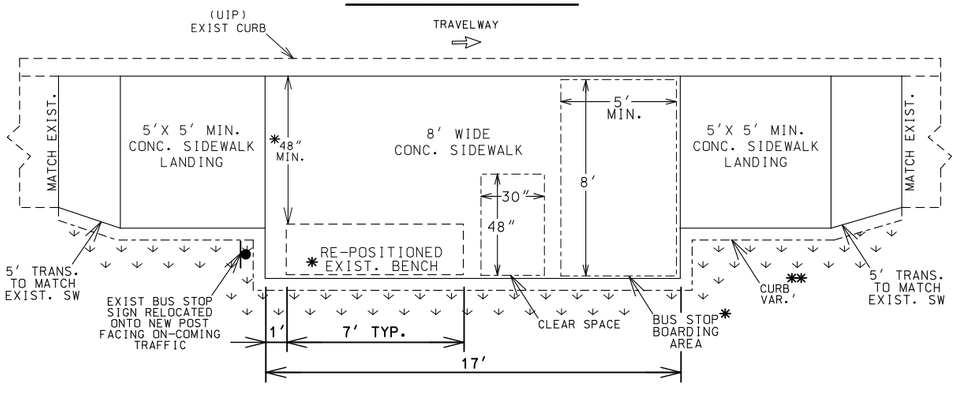
MODIFIED S-CURB
> 12" TALL (2'-6" MAX.)



* ROUND TO 3/4" RADIUS
** ROUND TO 1/4" RADIUS
H = 2'-6" MAX. (30")
D = BURY DEPTH (FORMING NOT REQUIRED)
THIS SHALL BE 18 INCHES OR "H" WHICHEVER IS GREATER.
VERTICAL REINFORCING LENGTHS VARY AS NEEDED.
DEPTH MAY BE REDUCED IF KEYED 6" IN ROCK

NOT TO SCALE

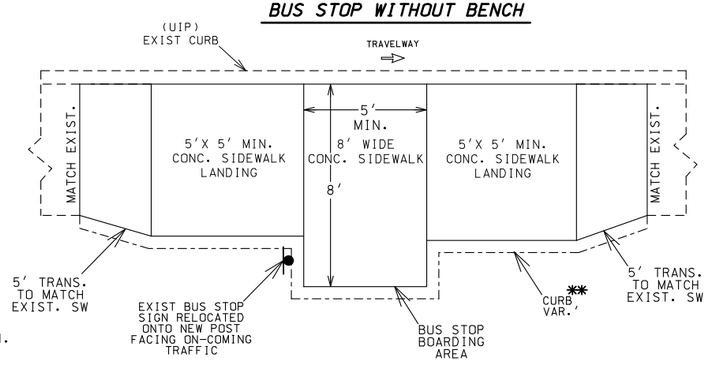
BUS STOP WITH BENCH

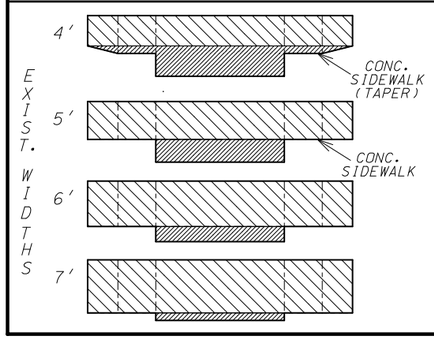


NOTES:

1. * THE RE-POSITIONED BENCH SHALL NOT BE PLACED ON THE 5'X8' BUS STOP BOARDING AREA. PLACE THE BACK OF THE BENCH AT THE BACK EDGE OF THE CONC. PAD TO PROVIDE MAX.CLEARANCE.
2. ** CURB USAGE DEPENDS ON FIELD CONDITIONS. IF CURB IS NEEDED DUE TO CUT, THE CURB HEIGHT WILL VARY DEPENDING ON FIELD CONDITIONS. (INTEGRAL CURB, S-CURB OR MOD. S-CURB).
3. S-CURB OVER 12" TALL IS PAID FOR AS 'MODIFIED S-CURB' AND REQUIRES REINFORCEMENT (NO DIRECT PAY). SEE DETAIL THIS SHEET.
4. *** INTEGRAL CURB IS PAID FOR IN THE 4" CONC. SIDEWALK PAY ITEM. INTEGRAL CURB PAID AS 1' ADDITIONAL SIDEWALK WIDTH. (EX. 6'SW PAID AS 7') (0.11 SY/LF OF CURB)

BUS STOP WITHOUT BENCH

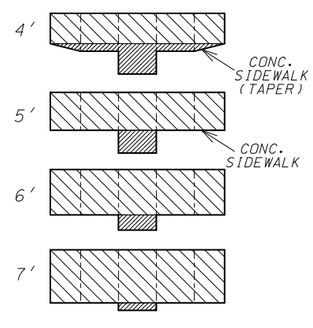




QUANTITIES FOR BUS STOPS WITH BENCH

EXISTING SW WIDTH		4'	5'	6'	7'
4" CONC. SIDEWALK (TAPER)	SY	9.3	5.8	3.9	1.9
TYPE 1 AGGREGATE	SY	9.3	5.8	3.9	1.9
4" CONC. SIDEWALK	SY	16.5	20.4	24.3	28.2
TYPE 1 AGGREGATE	SY	16.5	20.4	24.3	28.2
INTEGRAL CURB ***	SY	5.4	3.4	3.2	2.9
TYPE 1 AGGREGATE	SY	2.7	1.7	1.6	1.5
S-CURB	LF	43.5	27.0	25.0	23.0
MODIFIFED S-CURB	LF	43.5	27.0	25.0	23.0
SODDING	SY	10.6	10.4	9.8	9.4
LINEAR GRADING	LF	37.0	37.0	37.0	37.0

NOT TO SCALE



QUANTITIES FOR BUS STOPS - NO BENCH

EXISTING SW WIDTH		4'	5'	6'	7'
4" CONC. SIDEWALK (TAPER)	SY	3.9	1.8	1.3	0.7
TYPE 1 AGGREGATE	SY	3.9	1.8	1.3	0.7
4" CONC. SIDEWALK	SY	10.4	12.9	15.5	18.0
TYPE 1 AGGREGATE	SY	10.4	12.9	15.5	18.0
INTEGRAL CURB ***	SY	3.8	2.0	1.8	1.6
TYPE 1 AGGREGATE	SY	1.9	1.0	0.9	0.8
S-CURB	LF	31.0	15.0	13.0	11.0
MODIFIFED S-CURB	LF	31.0	15.0	13.0	11.0
SODDING	SY	7.6	7.4	6.8	6.4
LINEAR GRADING	LF	25.0	25.0	25.0	25.0

PASSING AREAS, BUS STOPS, AND MODIFIED S-CURB

TYPICAL SHEET
14 OF 14

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/5/2021	
ROUTE	STATE
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J8P3087D	
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DATE	DESCRIPTION

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

REMOVAL OF IMPROVEMENTS

SHEET	STATION	STATION	ROUTE	LOCATION	DESCRIPTION	UNITS	TOTAL	REMARKS
4	961+71.64		744	LT	TYPE A GUTTER	LF	30	
4	962+73.55		744	LT	SIGN	EA	1	SHARE ROAD
4	961+85.60	964+89.94	744	LT	CURB & GUTTER	LF	287	
4	963+49.25		744	LT	ENTRANCE	SY	27	
4	963+73.56		744	LT	DROP INLET	EA	1	
4	961+44.49	963+84.82	744	LT	LIGHT	EA	2	
4	964+60.90		744	LT	DROP INLET	EA	1	
4	961+70.84	965+09.00	744	LT & RT	RAISED MEDIAN	SY	400	
4	961+81.17		744	MEDIAN	SIGN	EA	1	KEEP RIGHT, IN MEDIAN
4	963+19.62	965+09.00	744	RT	CURB & GUTTER	LF	182	
4	963+30.43		744	RT	SIGN	EA	1	REMOVE & RELOCATE TO NEW POSTS
4	964+40.48		744	RT	TYPE A GUTTER	LF	25	
4	964+76.34		744	RT	PULL BOX	EA	1	
4	965+04.39		744	RT	LIGHT	EA	1	
4	964+60.29		744	RT	PIPE	LF	21	
4	964+60.29		744	RT	HEADWALL	EA	1	
5	965+14.20		744	LT	ENTRANCE	SY	26	
5	965+51.05		744	LT	DROP INLET	EA	1	
5	965+76.70		744	LT	SIGN	EA	1	WEST 744
5	966+22.46	966+60.67	744	LT	PULL BOXES & CONTROLLER	EA	8	DISCONNECT AND (R) EX. POWER SUPPLIES
5	966+37.40		744	LT	SIGNAL	EA	1	
5	966+20.23	966+23.42	744	LT	LIGHT	EA	2	
5	965+19.54	966+72.46	744	LT	CURB & GUTTER	LF	283	NW C&G
5	966+64.28		744	LT	SIGN	EA	1	EX. RTE. MARKERS
5	965+09.00	966+67.77	744	LT	RAISED MEDIAN	SY	123	
5	966+54.75		744	LT	PULL BOX	EA	1	IN MEDIAN
5	966+51.95		744	LT	SIGN	EA	1	KEEP RIGHT, IN MEDIAN
5	965+09.00	966+67.64	744	RT	CURB & GUTTER	LF	294	SW C&G
5	966+17.00		744	RT	SIGN	EA	2	EX. RTE. MARKERS
5	966+30.66	966+47.31	744	RT	PULL BOX	EA	2	
5	966+58.71		744	RT	LIGHT	EA	1	
5	966+51.09		744	RT	PULL BOX	EA	1	
5	966+50.25		744	RT	SIGN	EA	1	UTILITY MARKER
5	966+57.09		744	RT	PULL BOX	EA	2	
5	966+55.25	967+57.02	744	LT	TYPE A GUTTER	LF	47	BOTH NW & NE QUADS
5	967+64.51	967+90.76	744	LT	PULL BOX	EA	2	
5	967+51.41		744	LT	LIGHT	EA	1	
5	967+48.00		744	LT	SIGN	EA	1	WEST 160
5	967+76.39	967+81.95	744	LT	SIGN	EA	2	EX. RTE. MARKERS
5	967+11.63		744	LT	SIGN	EA	1	KEEP RIGHT, IN MEDIAN
5	967+11.60		744	LT	PULL BOX	EA	1	IN MEDIAN
5	967+55.30		744	LT	SIGNAL	EA	1	
5	967+93.06		744	LT	SIGN	EA	1	BILLBOARD
5	967+58.00	970+69.00	744	LT	SIDEWALK	SY	228	WEST OF WESTERN AVE.
5	967+44.11	970+68.00	744	LT	CURB & GUTTER	LF	427	NE C&G
5	969+34.03		744	LT	PULL BOX	EA	1	
5	969+08.70	969+28.84	744	LT	LIGHT	EA	2	
5	969+83.73		744	LT	ENTRANCE	SY	238	WESTERN AVE.
5	969+53.76	970+13.77	744	LT	PIPE	LF	60	AT WESTERN AVE.
5	970+38.68		744	LT	SIGN	EA	1	REMOVE & RELOCATE TO NEW POSTS
5	969+98.05	970+68.00	744	LT	SIDEWALK	SY	71	EAST OF WESTERN AVE.
5	966+99.00		744	RT	SIGN	EA	2	KEEP RIGHT, IN MEDIAN
5	966+98.11		744	RT	PULL BOX	EA	1	IN MEDIAN
5	967+42.93		744	RT	PULL BOX	EA	1	
5	967+72.13		744	RT	SIGNAL	EA	1	
5	967+45.20		744	RT	TYPE A GUTTER	LF	12	
5	967+38.64	968+21.66	744	RT	CURB & GUTTER	LF	214	SE C&G
5	967+48.00		744	RT	SIGN	EA	3	EX. RTE. MARKERS
5	967+84.76		744	RT	LIGHT	EA	1	
5	967+72.13		744	RT	SIGNAL	EA	1	
5	967+62.02		744	RT	SIGN & PULL BOX	EA	1	KEEP RIGHT, IN MEDIAN
5	967+45.02	970+68.00	744	RT	RAISED MEDIAN	EA	214	
6	970+97.74		744	LT	LIGHT	EA	1	
6	970+99.23		744	LT	TYPE A GUTTER	LF	17	
6	971+46.33		744	LT	LIGHT	EA	1	
6	971+71.34		744	LT	SIGN	EA	1	REMOVE & RELOCATE TO NEW POSTS
6	970+68.00	971+45.83	744	LT	SIDEWALK	SY	78	WEST OF AIRPORT DR.
6	971+63.42	972+93.30	744	LT	SIDEWALK	SY	169	WEST OF AIRPORT DR.
6	973+38.15	974+00.19	744	LT	SIDEWALK	SY	98	EAST OF AIRPORT DR.

REMOVALS (CONT.)

6	972+84.58		744	LT	SIGN	EA	1	STOP
6	970+68.00	971+00.00	744	RT	RAISED MEDIAN	SY	22	
6	971+45.32	973+11.56	744	RT	U2 SHOULDER	SY	90	
6	973+39.48	975+62.45	744	RT	U2 SHOULDER	SY	138	
7	978+00.39	984+02.85	160	VAR	RAISED MEDIAN	SY	624	
7	981+56.97		160	RT	TYPE A GUTTER	LF	20	
7	981+64.64		160	RT	PULL BOX	EA	2	
7	982+10.52		160	RT	PULL BOX	EA	2	
7	981+65.90	983+23.75	160	RT	CURB & GUTTER	LF	73	
8	103+32.15	811+34.00	160 S	LT	CURB & GUTTER	LF	136	
8	103+08.85	811+24.34	160 S	LT	PIPE	LF	186	
8	103+54.95		160 S	LT	SIGN	EA	1	REMOVE & RELOCATE TO NEW POST
8	811+27.97		160 S	LT	DROP INLET	EA	1	
8	103+52.39		160 S	RT	SIGN	EA	1	
8	810+49.54		160 S	RT	LIGHT	EA	1	
8	810+69.43		160 S	RT	TYPE A GUTTER	LF	13	
8	810+85.02		160 S	RT	PULL BOX	EA	1	
8	811+10.49		160 S	RT	LIGHT	EA	1	
8	103+31.77	811+34.00	160 S	RT	CURB & GUTTER	LF	126	
8	101+81.89	812+74.71	160 S	VAR	RAISED MEDIAN	SY	226	
5	811+29.03	812+23.36	160 S	LT	PIPE	LF	93	
5	811+27.97		160 S	LT	DROP INLET	EA	1	
6	970+68.00	973+68.19	744	LT	CURB & GUTTER	LF	280	
1 LUMP SUM								

MOBILIZATION

1 LUMP SUM

CONTRACTOR FURNISHED SURVEYING & STAKING

1 LUMP SUM

CLEARING AND GRUBBING

LOCATION	AREA ACRE	REMARKS
160SB-744WB	0.50	NW QUADRANT
744EB-160SB	0.27	SW QUADRANT
160NB-744EB	0.16	SE QUADRANT
744WB-160NB	0.27	NE QUADRANT
TOTAL =	1.2	
USE =	1	

SUMMARY OF QUANTITIES
SHEET 1 OF 8

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2021

ROUTE	STATE
744/160	MO
DISTRICT	SHEET NO.
SW	3

COUNTY
GREENE

JOB NO.
J8P3087D

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

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

EARTHWORK

SHEET	ROUTE	LOCATION	STATION FROM	STATION TO	UNCLASSIFIED EXCAVATION CY	COMPACTING EMBANKMENT CY	COMPACTING IN CUT STA	REMARKS
4, 5	MO 744	WEST LEG	961+16.71	965+78.96	907	495	7.6	
5, 6	MO 744	EAST LEG	968+35.51	974+87.72	912	380	3.4	
7, 5	US 160	NORTH LEG	978+00.39	982+77.74	1223	17	6.2	
8, 5	US 160	SOUTH LEG	101+17.85	811+59.15	441	8	7.8	
5	INTERSECTION	NW QUADRANT	0+00	1+48.91	543	3		ALONG EOP
5	INTERSECTION	NE QUADRANT	0+00	1+25.76	438	0		ALONG EOP
5	INTERSECTION	SW QUADRANT	0+00	1+63.40	268	31		ALONG EOP
5	INTERSECTION	SE QUADRANT	0+00	1+53.61	199	5		ALONG EOP
				TOTALS =	4,931	939	25.0	

COLDMILLING AND ULTRATHIN BONDED ASPHALT WEARING SURFACE, TYPE C

SHEET	STATION	STATION	LOCATION	LENGTH FT	TYPE C UBAWS SY	COLDMILLING BIT. PAVEMENT (3 IN OR LESS) SY	REMARKS
4	961+16.71	965+09.50	MO 744	392.79	1532.7	1532.7	EB LANES
4	961+16.71	965+09.50	MO 744	392.79	1656.9	1656.9	WB LANES
5	965+09.50	965+27.78	MO 744	18.28	92.1	92.1	EB LANES
5	965+09.50	965+78.96	MO 744	69.46	344.5	344.5	WB LANES
5	965+27.78	967+04.63	INTERSECTION	176.85	1594.1	1594.1	SW QUADRANT
5	965+78.96	967+04.63	INTERSECTION	125.67	1593.5	1593.5	NW QUADRANT
5	967+04.63	968+21.90	INTERSECTION	117.11	1295.5	1295.5	SE QUADRANT
5	967+04.63	968+35.52	INTERSECTION	130.89	1273.7	1273.7	NE QUADRANT
5	968+21.90	970+68.50	MO 744	246.76	911.1	911.1	EB LANES
5	968+35.52	970+68.50	MO 744	232.98	1459.7	1459.7	WB LANES
6	970+68.50	974+87.72	MO 744	419.22	1404.1	1404.1	EB LANES
6	970+68.50	974+87.72	MO 744	419.22	1634.4	1634.4	WB LANES
7	978+00.39	982+77.74	US 160	477.35	2190.4	2190.4	SB LANES
7	978+00.39	983+09.75	US 160	509.36	1890.6	1890.6	NB LANES
8	811+86.73	101+17.85	US 160	351.46	1713.7	1713.7	SB LANES
8	811+59.15	101+17.85	US 160	351.46	1633.9	1633.9	NB LANES
				TOTALS =	22,221	22,221	

PAVEMENT AND BASE

SHEET	STATION	STATION	ROUTE	LOCATION	WIDTH FT	LENGTH FT	OPTIONAL PAVEMENT SY	6" TYPE 5 BASE SY	REMARKS
4	963+19.62	965+09.50	744	RT	VAR	189.88	189.0	189.0	EB RT TURN LANE
4	961+16.71	965+09.50	744	LT	VAR	392.79	329.5	329.5	WB THRU LANE
4, 5	961+70.83	966+67.78	744	RT & LT	VAR	496.95	517.6	517.6	BENEATH EX. WESTERN MEDIAN
5	965+09.50	966+69.83	744, 160	RT of 160 & LT of 744	VAR		650.0	650.0	EB RT TURN TO SB THRU
5	965+09.50	966+76.40	744, 160	RT of 160 & LT of 744	VAR		782.2	782.2	SB THRU, SB RT TURN TO EB THRU
5	967+38.77	970+68.48	744	LT	VAR		988.3	988.3	WB RT TURN AND THRU LANE
5	967+33.47	968+21.91	744	RT	VAR		410.1	410.1	NB RT TURN LANE
5, 6	967+42.66	971+00.00	744	RT	VAR	357.34	237.8	237.8	BENEATH EX. EASTERN MEDIAN
6	970+68.48	972+45.57	744	LT	VAR	177.09	251.4	251.4	WB RT TURN AND THRU LANE
7	978+00.39	982+46.64	160	RT	VAR		588.2	588.2	SB RT TURN AND THRU LANE
5, 7	978+00.39	984+02.85	160	RT & LT	VAR	602.46	634.7	634.7	BENEATH EX. NORTHERN MEDIAN
8	103+32.15	811+18.36	160	LT	VAR	70786.21	73.7	73.7	SB THRU LANE
8	103+32.24	811+20.30	160	RT	VAR	70787.78	123.7	123.7	NB RT TURN LANE
5, 8	101+81.89	812+74.81	160	RT & LT	VAR	73.5097444	243.4	243.4	BENEATH EX. SOUTHERN MEDIAN
						TOTALS	6,019.7	6,020	

TYPE A2 SHOULDER

SHEET	STATION	STATION	ROUTE	LOCATION	WIDTH FT	LENGTH FT	TYPE A2 SHOULDER SY	4" TYPE 5 AGG. BASE SY	REMARKS
4	961+16.71	961+61.59	744	LT	VAR	44.88	27.9	27.9	
7	978+00.39	980+70.74	160	RT	VAR	270.35	286.0	286.0	
						TOTAL	313.9	314	

SUMMARY OF QUANTITIES
SHEET 2 OF 8

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2021

ROUTE 744/160 | STATE MO

DISTRICT SW | SHEET NO. 3

COUNTY GREENE

JOB NO. J8P3087D

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

(PEDESTRIAN FACILITIES) TRUNCATED DOMES, CURB RAMP, SIDEWALK, S-CURB

					TRUNC. DOMES	CURB RAMP				4" SIDEWALK		8" SIDEWALK		4" TYPE 1 AGG	S-CURB	STEEL PLATE
SHEET	STATION	STATION	LOCATION	OFFSET	SF	LENGTH	WIDTH	TYPE	SY	LENGTH	SY	LENGTH	SY	SY	LF	EA
5	967+71.05	969+25.82	744	LT	10	12	6	2-A	13.7	131	87.33	5	3.3	103.7	✳ 171.6	
5	969+25.82	970+68.48	744	LT	74	8	6	1-B	26.2	21	14.00	6	4	44.9		
6	970+68.48	974+00.19	744	LT	24	12	6	2-C	49.8	277	184.67	24	16	216.5		1
6	971+40.00	971+65.00	744	LT												
				TOTAL	108				89.7		286.0		23.3	365	172	1

(PEDESTRIAN FACILITIES CONT.) ADA LINEAR GRADING AND HANDRAIL

SHEET	STATION	STATION	LOCATION	OFFSET	ADA LINEAR GRADING LF	HANDRAIL LF	REMARKS
5	967+71.05	969+53.10	744	LT	147		NE QUADRANT TO WESTERN AVE
5	969+34	970+68	744	LT	44		WEST OF WESTERN AVE TO EDGE OF PAGE
6	970+68	974+00	744	LT	274		EDGE OF PAGE TO EAST OF AIRPORT PLAZA
6	971+40	971+65	744	LT		25	ALONG 2:1 SLOPE, NO BALUSTERS
				TOTAL	465	25	

✳

S CURB LESS THAN 6" =	14	969+26	969+40
S CURB GREATER THAN 6" =	14	968+12	969+26
MODIFIED S-CURB =	144	967+74.5	969+12

CURB AND GUTTER

SHEET	STATION	STATION	LOCATION	OFFSET	TYPE B C&G LF	TYPE A GUTTER LF	6" TYPE 5 AGGREGATE SY	4" TYPE 5 AGGREGATE SY	REMARKS	NOTES
4,5	961+71.87	965+78.95	744	LT	348.6	19.6	116.2	6.53	WEST LEG NORTH SIDE	Not including paved approach and radii
4,5	963+19.68	965+27.78	744	RT	197.3	34.0	65.8	11.33	WEST LEG SOUTH SIDE	Not including paved approach and radii
5,6	968+31.08	972+63.22	744	LT	309.2	17.8	103.1	5.93	EAST LEG NORTH SIDE	Not including paved approach and radii
7,5	980+70.45	982+77.74	160	RT	199.5	29.8	66.5	9.93	NORTH LEG WEST SIDE	Not including radii
8,5	103+32.15	811+86.73	160	LT	205.0		68.3		SOUTH LEG WEST SIDE	Not including radii
8,5	103+32.15	811+59.15	160	RT	172.4	7.2	57.5	2.40	SOUTH LEG EAST SIDE	Not including radii
5	965+78.95	966+49.10	744	LT	140.0		46.7		NW QUADRANT RADIUS	
5	965+27.78	966+54.52	744	RT	159.4		53.1		SW QUADRANT RADIUS	
5	967+49.13	968+21.90	744	RT	144.1	10.2	48.0	3.40	SE QUADRANT RADIUS	
5	967+43.09	968+31.29	744	LT	113.9	20.4	38.0	6.80	NE QUADRANT RADIUS	
				TOTAL	1,989	139	663	46		

CURB AND GUTTER, TYPE A

SHEET	STATION	LOCATION	OFFSET	NET LENGTH LF	4" TYPE 5 AGGR. SY	REMARKS
4	963+75.51	744	LT	72	24	ENTRANCE 1
5	969+83.60	744	LT	110	36.7	WESTERN AVE.
6	973+15.54	744	RT	97	32.3	AIRPORT PLAZA AVE.
			TOTAL	279	93	

LINEAR GRADING CLASS 1

SHEET	STATION	ROUTE	LOCATION	STA	REMARKS
4	963+87	744	LT	0.30	ENTERANCE 1
5	969+83	744	LT	0.38	WESTERN AVE
6	973+16	744	LT	0.40	N. AIRPORT PLAZA AVE.
			TOTAL =	1.1	

8 IN. CONCRETE MEDIAN STRIP

		8" MEDIAN STRIP		
SHEET	LOCATION	STATION	SY	REMARKS
5	INTERSECTION	966+36	49.22	NW ISLAND (1)
5	INTERSECTION	966+13	92.07	SW ISLAND (4)
5	INTERSECTION	967+67	34.93	NE ISLAND (2)
5	INTERSECTION	967+64	59.45	SE ISLAND (3)
4,5	744	965+75	171.80	WEST MEDIAN
5,8	160	966+84	164.13	SOUTH MEDIAN
5,6	744	968+17	127.42	EAST MEDIAN
5,7	160	967+13	370.65	NORTH MEDIAN
		TOTAL	1,070	

PAVEMENT EDGE TREATMENT

SHEET	LOCATION	EDGE TREATMENT LF	REMARKS
25	NB 160	363	NB 160 RT TURN LANE TO EB 744
25	EB 744	624	EB 744 RT TURN LANE TO SB 160
25	SB 160	1,138	SB 160 RT TURN LANE TO WB 744
25	SB 160	580	WB 744 RT TURN LANE TO NB 160
	TOTAL	2,705	

NOTE: ALL DROPOFFS SHALL HAVE PAVEMENT EDGE TREATMENT UNTIL FINAL ASPHALT OPERATIONS ARE COMPLETE

SUMMARY OF QUANTITIES
SHEET 3 OF 8

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/23/2021

ROUTE 744/160 | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY GREENE
JOB NO. J8P3087D
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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

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

INLET PROTECTION

SHEET	STATION	ROUTE	LOCATION	REMARKS
33	961+78	744	LT	WB ON KERNEY
33	963+40	744	LT	WB ON KERNEY
33	964+62	744	LT	WB ON KERNEY
33	964+42	744	RT	EB ON KERNEY
34	965+56	744	LT	WB ON KERNEY
34	966+15	744	LT	MANHOLE
34	969+17	744	LT	WB ON KERNEY
34	970+49	744	LT	WB ON KERNEY
34	983+2	160	RT	SB ON 160
34	984+39	160	RT	SB ON 160
34	983+28	160	LT	NB ON 160
34	982+97	160	LT	NB ON 160
35	971+21	744	LT	WB ON KERNEY
35	971+53	744	LT	WB ON KERNEY
36	981+66	160	RT	SB ON 160
36	981+60	160	LT	NB ON 160
37	810+69	160 S	RT	NB ON 160
37	102+70	160 S	RT	NB ON 160
37	811+27	160 S	LT	SB ON 160
37	103+7	160 S	LT	SB ON 160
37	102+32	160 S	LT	SB ON 160
			TOTALS =	21

SEEDING - COOL SEASON MIXTURES

LOCATION	COOL SEASON MIXTURE ACRE	REMARKS
160SB-744WB	0.13	NW QUADRANT
744EB-160SB	0.07	SW QUADRANT
160NB-744EB	0.04	SE QUADRANT
744WB-160NB	0.07	NE QUADRANT
TOTAL =	1.2	
USE =	1.2	

ADJUSTING BASIN OR INLET

SHEET	STATION	LOCATION	ADJUSTING BASIN OR INLET EA	REMARKS
6	972+49	744 LT	1	ADJUST EX. DROP INLET TO MATCH NEW SIDEWALK
		TOTAL	1	

ADJUSTING MANHOLE

SHEET	STATION	LOCATION	ADJUSTING MANHOLE EA	REMARKS
5	966+15.58	744 LT	1	ADJUST EX. SANITARY SEWER MANHOLE
		TOTAL	1	

ROCK BLANKET, TYPE 1

SHEET	STATION	STATION	ROUTE	LOCATION	FURNISHING ROCK BLANKET CY	PLACING ROCK BLANKET CY	PERMANENT EROSION CONTROL GEOTEXTILE SY	REMARKS
35	971+00	972+62	744	LT			249.0	COMBINED WITH TYPE 1 ROCK BLANKET
35	971+40	971+65	744	LT			64.0	STABILIZE 2:1 SLOPE
35	971+00	972+62	744	LT	83.00	83.00		
				TOTAL =	83	83	313	

ADDITIONAL MOBILIZATION FOR SEEDING

4 EACH

CULVERT CLEANOUT

SHEET	STA.	EA
4	964+60	1
6	971+54	1
	TOTAL	2

SUMMARY OF QUANTITIES
SHEET 4 OF 8

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

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DATE PREPARED 8/26/2021

ROUTE	STATE
744/160	MO
DISTRICT SW	SHEET NO. 3

COUNTY GREENE

JOB NO. J8P3087D

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

DRAINAGE - DROP INLETS, PIPES, CL. 3 EXCAVATION

SHEET	STATION	STATION	ROUTE	LOCATION	ELEMENT I.D.	DEPTH	3' X2.5' D.I. TYPE T (LF)	PRECAST 48 INCH CONC. MANHOLE (LF)	MH FRAME & COVER TYPE 3 (EA)	MISCELLANEOUS PIPE GRP A 12" (LF)	GRP A 15"(LF)	GRP A 18"(LF)	GRP B 24" (LF)	GRP B 30"(LF)	GRP A (EA) 18" FES	GROUP B 30" FES (EA)	PIPE COLLAR TYPE A (EA)	CL 3 EXCAV. (CY)	REMARKS
4	964+61.98		744	49.2' LT	CB-1	5.0	10		1									11.8	
4, 5	964+64.98	965+52.50	744	LT	SS -3						91							59.1	
5	965+55.50		744	49.1' LT	CB-2	3.1	6		1									5.6	
4	963+44.74	964+58.98	744	LT	SS -4					114								73.7	
4	963+40.00		744	45.8' LT	CB -3	3.7	12		1									7.5	
4	964+60.23	964+60.23	744	LT	SS -2							11						6.4	SEE CULVERT SECTION
4	964+60.23		744	34.4' LT	CB -5	5.0		5	1									17.2	SEE CULVERT SECTION
	964+60.25	264+60.30	744	RT	SS -1							28			1		1	15.7	SEE CULVERT SECTION
5	969+16.00		744	61' LT	CB -6	3.8	16		1									10.6	
5	969+22.50	970+42.51	744	LT	SS -5							120						77.0	
5	970+49.00		744	60.5' LT	CB -7	4.0	16		1									18.7	
5, 6	970+55.49	971+52.16	744	LT	SS -6							111						123.2	TIE INTO EX. BOX CULVERT
8	103+08.78	811+23.33	160 S	LT	SS -10								163					62.1	TIE INTO EXISTING D.I.
8	811+27.97		160 S	47.3' LT	CB -13	5.1	10		1									17.1	
8	811+26.36	811+25.79	160 S	LT	SS -11									14		1		6.2	
						TOTALS =	70	5	7	114	91	270	163	14	1	1	1	512	

TEMPORARY EROSION CONTROL

SHEET	ROUTE	LOCATION	SILT FENCE LF	ROCK DITCH CHECK LF	SEDIMENT REMOVAL CY	REMARKS
33	744	LT	320	16	3	WEST LEG, NORTH SIDE
33	744	RT	140	0	1	WEST LEG, SOUTH SIDE
34	744	LT	100	0	1	WEST LEG, NORTH SIDE
34	744/160	RT	245	0	2	SOUTHWEST INTERSECTION CORNER
34	744	RT	0	80	5	EAST LEG, SOUTH SIDE. 5 AT 43' SPACING
34	160	LT	0	32	2	SOUTH LEG, EAST SIDE. 2 AT 150' SPACING
34	160	RT	0	16	1	NORTH LEG, WEST SIDE.
34	160	LT	0	32	2	NORTH LEG, EAST SIDE. 2 AT 60' SPACING
35	744	RT	0	48	3	EAST LEG. 2 AT 75' SPACING, 1 AT OUTFLOW
36	160	LT	0	16	1	NORTH LEG, EAST SIDE. 1 DITCH CHECK
36	160	RT	0	48	3	NORTH LEG, WEST SIDE. 3 AT 150' SPACING
36	160	RT	0	80	5	NORTH LEG, WEST SIDE. 5 AT 38' SPACING
37	160	RT	185	0	2	SOUTH LEG,WEST SIDE
37	160	LT	0	32	2	SOUTH LEG, EAST SIDE. 2 AT 150' SPACING
		TOTALS =	990	400	33	

ROCK LINING

SHEET	STATION	ROUTE	LOCATION	CY	REMARKS
4	961+53	744	LT	1.2	D=1', W=4', L=8'
4	964+40	744	RT	4.4	D=1', W=10', L=12'
4	964+60	744	RT	3.6	D=1', W=8', L=12'
5	982+88	160	RT	1.2	D=1', W=4', L=8'
5	982+85	160	LT	1.2	D=1', W=4', L=8'
5	811+26	160S	LT	3.1	D=1', W=6', L=14'
5	812+4	160S	RT	1.2	D=1', W=4', L=8'
6	971+23	744	LT	4.4	D=1', W=10', L=12'
7	981+58	160	RT	1.1	D=1', W=4', L=8'
8	8810+72	160S	RT	0.6	D=1', W=4', L=4'
			TOTAL =	22	

LANDSCAPE RELOCATION AT WESTERN AVE.
1 LUMP SUM

CONNECTION TO EXIST. BOX CULVERT
1 EACH

SUMMARY OF QUANTITIES
SHEET 5 OF 8

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
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ROUTE 744/160 | STATE MO
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PAVEMENT MARKING

SHEET	ROUTE	START STA.	END STA.	LOCATION	6" INT WHITE LF	6" SOLID WHITE LF	4" SOLID YELLOW LF	6" SOLID YELLOW LF	24" WHITE LF	LEFT/RIGHT ARROW EA	30" MIDBLOCK EA	YIELD TRIANGLES EA	REMARKS
55, 56	744	961+16.71	965+27.78	RT		412.0							EB EDGELINE
55, 56	744	961+16.71	965+79.51	LT		463.0							WB EDGELINE
55, 56	744	961+16.71	966+21.66	RT	127.0								EB LANE LINE
55, 56	744	961+16.71	965+89.76	LT	119.0								WB LANE LINE
55	744	961+16.71	961+62.68	RT				92.0					DOUBLE YELLOW
55	744	961+16.71	961+73.20	LT				114.0					DOUBLE YELLOW
55	744	961+62.68	961+88.59	LT & RT				26.0					SINGLE YELLOW
55	744	961+73.20	961+88.59	LT				15.0					SINGLE YELLOW
55	744	961+62.68	963+11.67	RT	38.0								TURN LANE APPROACH
55, 56	744	963+11.67	966+21.67	RT		310.0							LEFT TURN LANE
55, 56	744	963+86.68	965+86.68	LT		200.0			24	4			LEFT TURN LANE
55, 56	744	964+21.65	966+59.22	RT		348.0			24	1			RIGHT TURN LANE + AROUND ISLAND
56	744	965+27.78	966+57.45	RT		164.0							SW RADIUS EDGELINE OUTSIDE
56	744	965+27.78	966+57.45	RT		168.0			17			10	EB TO SB INSIDE EDGELINE
56	744	965+74.38	965+88.94	LT			29.0						WEST MEDIAN NOSE
56, 57	744	968+21.90	974+87.72	RT		666.0							EB EDGELINE
56, 57	744	968+35.51	974+87.72	LT		655.0							WB EDGELINE
56, 57	744	968+18.79	974+87.72	RT	167.0								EB LANE LINE
56	744	967+40.27	968+35.51	LT		131.0							NE RADIUS EDGELINE OUTSIDE
56	744	967+40.27	968+35.51	LT		135.0			15			10	WB TO NB INSIDE EDGELINE
56, 57	744	967+37.19	971+25.26	LT		462.0			24	2			RIGHT TURN LANE + AROUND ISLAND
56, 57	744	967+65.45	970+45.45	LT		280.0							LEFT TURN LANE
56	744	967+95.46	970+45.46	LT		250.0			24	4			LEFT TURN LANE
56	744	967+93.46	968+17.63	RT			49.0						EAST MEDIAN NOSE
56, 57	744	970+45.46	972+26.47	LT	45.0					1			TURN LANE APPROACH
57	744	972+48.40	972+78.40	LT & RT		30.0	41.0			1			AIRPORT PLAZA TURN LANE
57	744	973+71.61	974+01.66	LT & RT		30.0	20.0			1			WB TURN LANE
57	744	983+65.24	983+64.34	LT							8		AIRPORT PLAZA CROSSWALK
58, 56	160	978+00.39	983+09.75	LT		513.0							NB EDGELINE
58, 56	160	978+00.39	982+79.44	RT		473.0							SB EDGELINE
58, 56	160	978+00.39	983+21.92	LT	131.0								NB LANE LINE
58, 56	160	978+00.39	983+71.78	RT	142.0								SB LANE LINE
58	160	978+00.39	980+87.20	LT & RT	59.0			315.0		1			TURN LANE APPROACH
58, 56	160	980+86.66	983+36.66	RT		250.0							LEFT TURN LANE
58, 56	160	980+86.66	983+71.78			285.0			24	4			LEFT TURN LANE
58, 56	160	981+71.84	983+95.52	RT		312.0			24	1			RIGHT TURN LANE + AROUND ISLAND
56	160	982+77.74	983+97.73	RT		150.0							NW RADIUS EDGELINE OUTSIDE
56	160	982+77.74	983+97.73	RT		151.0			17			10	SB TO WB INSIDE EDGELINE
56	160	983+23.59	983+38.59	LT			31.0						NORTH MEDIAN NOSE
59, 56	160 S	101+17.81	811+87.33	LT		419.0							SB EDGELINE
59, 56	160 S	101+17.81	811+59.15	RT		392.0							NB EDGELINE
59, 56	160 S	101+17.81	812+12.96	LT	50.0								SB LANE LINE
59, 56	160 S	101+17.81	812+49.55	RT	53.0								NB LANE LINE
59	160 S	101+70.49	103+06.22	LT		135.0				2			SB TURN LANE
59	160 S	102+99.58	810+49.55	RT	25.0								TURN LANE APPROACH
59, 56	160 S	810+49.55	812+49.55	RT		200.0			24	2			LEFT TURN LANE
56	160 S	811+45.31	812+19.55	LT		75.0							LEFT TURN LANE
58, 56	160 S	810+81.55	812+82.55	RT		293.0			24	1			RIGHT TURN LANE + AROUND ISLAND
56	160 S	811+59.15	812+82.69	RT		154.0							SE RADIUS EDGELINE OUTSIDE
56	160 S	811+59.15	812+82.69	RT		157.0			17			10	NB TO EB INSIDE EDGELINE
56	160 S	812+02.04	812+21.55	LT			40.0						SOUTH MEDIAN NOSE
56	744	965+89.76	966+99.39	LT & RT	47.0								2' TRACKS, 6' SPACING NB TO WB
56	744	966+70.03	967+93.46	LT & RT	47.0								2' TRACKS, 6' SPACING WB TO SB
56	744	966+98.72	968+18.79	LT & RT	47.0								2' TRACKS, 6' SPACING SB TO EB
56	744	965+88.68	967+27.98	LT	50.0								2' TRACKS, 6' SPACING EB TO NB
56	744	966+35.58	966+59.67	LT		188.0							NW ISLAND, 12" WHITE
56	744	966+13.02	966+57.11	RT		262.0							SW ISLAND, 12" WHITE
56	744	967+41.02	967+67.23	LT		628.0							NE ISLAND, 12" WHITE
56	744	967+38.48	967+64.59	RT		1070.0							SE ISLAND, 12" WHITE
55, 56	744	961+88.09	965+75.10	LT			2340.0						WEST MEDIAN, 12" YELLOW
58, 56	160	978+00.39	983+23.90	LT & RT			3180.0						NORTH MEDIAN, 12" YELLOW
56, 57	744	968+16.79	971+00.00	RT			1710.0						EAST MEDIAN, 12" YELLOW
59, 56	160 S	101+83.23	812+02.45	LT & RT			2235.0						SOUTH MEDIAN, 12" YELLOW
				SUBTOTALS =	1147	10811	9675	562	258	25	8	40	
				TOTALS =	11958		9675	562	258	25	8	40	
				USE =	11958		9675	562	258	25	8	40	

SUMMARY OF QUANTITIES
SHEET 6 OF 8

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/26/2021

ROUTE	STATE
744/160	MO
DISTRICT	SHEET NO.
SW	3

COUNTY
GREENE

JOB NO.
J8P3087D

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

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

PAVEMENT REPAIR – FULL DEPTH & PARTIAL DEPTH

LOCATION	LENGTH	WIDTH	FULL DEPTH REPAIR: FURNISHING & PLACING FULL DEPTH CONCRETE	SUBGRADE COMPACTION (6")	TYPE 5 AGGREGATE (4")	FULL DEPTH SAW CUT	DOWEL BARS	DOWEL BARS W/ BASKETS	TIE BARS	CLASS A PARTIAL DEPTH REPAIR: FURNISHING & PLACING CONCRETE MATERIAL	REMOVAL	REMARKS
			SY	SY	SY	FT	EA	EA	EA	CY	SY	
744/160	VAR	VAR	375	38.0	38.0	1715	560	0	0	1.4	25	
		TOTAL	375	38	38	1715	560	0	0	1.4	25	

TEMPORARY SURFACING

SHEET	LOCATION	TEMPORARY SURFACING CY	REMARKS
25	744 LT	24.8	WESTERN AVE. ENTRANCE
	TOTAL	25	

PAVED APPROACH, 8 IN

SHEET	LOCATION	STATION	ENT. WIDTH FT	8" CONC PAVED APPROACH SY	4" TYPE 1 AGGREGATE BASE SY	REMARKS
4	744	963+75.51	30	117.2	117.2	ENTRANCE 1
5	744	969+83.62	30	201.3	201.3	WESTERN AVE
6	744	973+15.39	45	228.7	228.7	AIRPORT PLAZA
			TOTALS	547.2	547.2	

SUMMARY OF QUANTITIES
SHEET 7 OF 8

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2021
ROUTE 744/160 | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY GREENE
JOB NO. J8P3087D
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

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

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

EFFECTIVE: 04-01-2021

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
WARNING SIGNS								
W01-1L	48X48	16.00						TURN (SYMBOL LEFT ARROW)
W01-1R	48X48	16.00						TURN (SYMBOL RIGHT ARROW)
W01-2L	48X48	16.00						CURVE (SYMBOL LEFT ARROW)
W01-2R	48X48	16.00						CURVE (SYMBOL RIGHT ARROW)
W01-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT ARROW)
W01-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
W01-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
W01-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
W01-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
W01-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
W01-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
W01-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
W01-8	18X24	3.00						CHEVRON (SYMBOL)
W01-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
W03-1	48X48	16.00						STOP AHEAD (SYMBOL)
W03-2	48X48	16.00						YIELD AHEAD (SYMBOL)
W03-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
W03-4	48X48	16.00						BE PREPARED TO STOP
W03-5	48X48	16.00	6	96.00				SPEED LIMIT AHEAD
W04-1L	48X48	16.00	2	32.00				MERGE (SYMBOL FROM LEFT)
W04-1R	48X48	16.00	2	32.00				MERGE (SYMBOL FROM RIGHT)
W04-1aL	48X48	16.00						MERGE (ARROW SYMBOL)
W04-1aR	48X48	16.00						MERGE (ARROW SYMBOL)
W05-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS
W05-3	48X48	16.00						ONE LANE BRIDGE
W05-5	48X48	16.00						NARROW LANES
W06-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
W06-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
W06-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
W07-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
W08-1	48X48	16.00						BUMP
W08-2	48X48	16.00						DIP
W08-3	48X48	16.00						PAVEMENT ENDS
W08-4	48X48	16.00						SOFT SHOULDER
W08-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
W08-6	48X48	16.00						TRUCK CROSSING (WITH FLAGS)
W08-6c	48X48	16.00						TRUCK ENTRANCE
W08-7	36X36	9.00						LOOSE GRAVEL
W08-7a	36X36	9.00						FRESH OIL/LOOSE GRAVEL
W08-9	48X48	16.00						LOW SHOULDER
W08-11	48X48	16.00						UNEVEN LANES
W08-12	48X48	16.00						NO CENTER LINE
W08-15	48X48	16.00						GROOVED PAVEMENT
W08-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
W08-17	48X48	16.00						SHOULDER DROP-OFF (SYMBOL)
W08-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
W012-1	24X24	4.00	2	8.00				DOUBLE DOWN ARROW (SYMBOL)
W012-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
W012-2X	24X18	3.00						LOW CLEARANCE (PLAQUE)
W012-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
W012-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
W012-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
W013-1	30X30	6.25						ADVISORY SPEED (PLAQUE)
W016-2	30X24	5.00						XXX FEET (PLAQUE)
W016-3	30X24	5.00						X MILE (PLAQUE)
W020-1	48X48	16.00	11	176.00				ROAD/BRIDGE/RAMP WORK AHEAD
W020-2	48X48	16.00						DETOUR AHEAD
W020-3	48X48	16.00						ROAD CLOSED AHEAD
W020-4	48X48	16.00						ONE LANE ROAD AHEAD
W020-5	48X48	16.00	6	96.00				RIGHT/CENTER/LEFT LANE CLOSED AHEAD
W020-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
W020-6a	48X48	16.00	6	96.00				RIGHT/CENTER/LEFT LANE CLOSED
W020-7a	48X48	16.00						FLAGGER (SYMBOL, WITH FLAGS)
W021-2	36X36	9.00						FRESH OIL
W021-5	48X48	16.00						SHOULDER WORK AHEAD
W022-1	48X48	16.00						BLASTING ZONE AHEAD
W022-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
W022-3	42X36	10.50						END BLASTING ZONE
G022-1	21X15	2.19						WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00						GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
G020-1	60X24	10.00						ROAD WORK NEXT XX MILES
G020-2	48X24	8.00						END ROAD WORK
G020-4	36X18	4.50						PILOT CAR FOLLOW ME
G020-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW
G020-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW
G020-5aP	36X24	6.00	6	36.00				WORK ZONE (PLAQUE)
M04-8a	24X18	3.00						END DETOUR
M04-9L	48X36	12.00						DETOUR (LEFT ARROW)
M04-9R	48X36	12.00						DETOUR (RIGHT ARROW)
M04-9P	48X12	4.00						STREET NAME (PLAQUE)
M04-10L	48X18	6.00						DETOUR (ARROW LEFT)
M04-10R	48X18	6.00						DETOUR (ARROW RIGHT)
REGULATORY SIGNS								
R1-1	48X48	13.25						STOP
R1-2	48TRI.	6.93						YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00	8	96.00				SPEED LIMIT 35 & 45
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25	2	12.50				RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R4-7a	36X48	12.00	2	24.00				KEEP RIGHT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00	10	20.00				SIDEWALK CLOSED
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00						STOP HERE ON RED (45° ARROW)
R11-2	48X30	10.00						ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50						ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00						FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00	4	48.00				POINT OF PRESENCE
CONST-5	96X48	32.00						POINT OF PRESENCE
CONST-7	48X24	8.00						RATE OUR WORK ZONE
CONST-7	72X36	18.00	6	108.00				RATE OUR WORK ZONE
CONST-8	48X36	12.00	6	72.00				WORK ZONE NO PHONE ZONE

616-10.05 CONSTRUCTION SIGNS	TOTAL	953
616-10.10 RELOCATED SIGNS	TOTAL	

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6123000A	2	TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)
6161008		ADVANCED WARNING RAIL SYSTEM
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161025	300	CHANNELIZER (TRIM LINE)
6161030	5	TYPE III MOVEABLE BARRICADE
6161033	10	DIRECTION INDICATOR BARRICADE
6161040	2	FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161051		WARNING LIGHT, TYPE A
6161052		WARNING LIGHT, TYPE B
6161053		WARNING LIGHT, TYPE C
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A		CHANGEABLE MESSAGE SIGN W/O COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6161099	4	CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002	16	TEMPORARY LONG-TERM RUMBLE STRIPS
6162004		TEMPORARY SHORT-TERM RUMBLE STRIPS
6173600D		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED
6173602B		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED
6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401	1	TEMPORARY TRAFFIC SIGNALS AND LIGHTING
6169902	10	ADA COMPLIANT MOVEABLE BARRICADE

SUMMARY OF QUANTITIES
SHEET 8 OF 8

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2021

ROUTE	STATE
160/744	MO
DISTRICT SW	SHEET NO. 3

COUNTY GREENE
JOB NO. J8P3087D
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

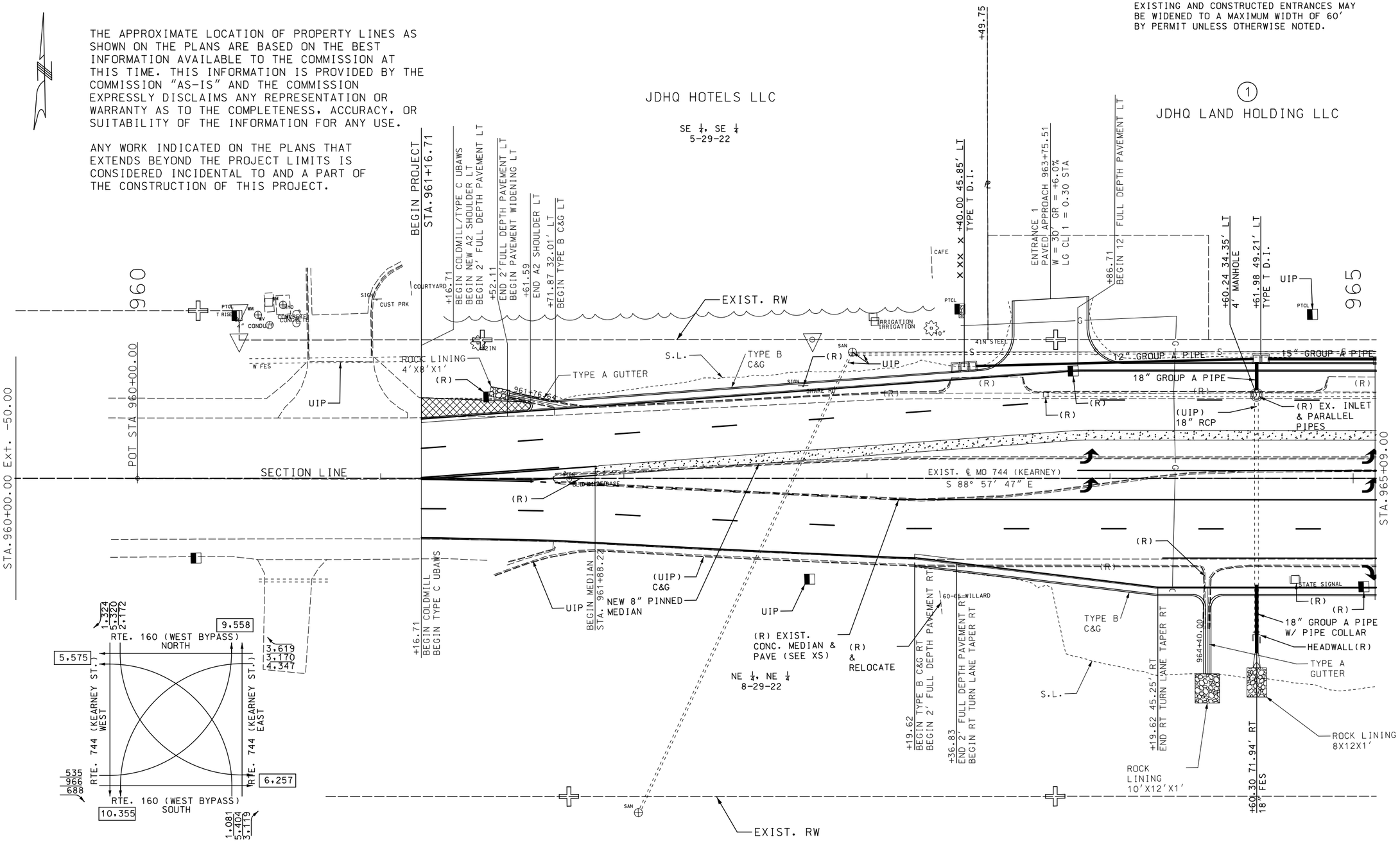
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

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

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.

EXISTING AND CONSTRUCTED ENTRANCES MAY BE WIDENED TO A MAXIMUM WIDTH OF 60' BY PERMIT UNLESS OTHERWISE NOTED.



TRAFFIC FLOW DIAGRAM
ESTIMATED - 2040
TRAFFIC VOLUME

RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND ALONG RTE. 160 FROM STATION 978+00.39 TO STATION 101+17.85, A DISTANCE OF 0.224 MILES, AND ALONG RTE. 744 FROM STATION 961+16.71 TO STATION 975+73.37, A DISTANCE OF 0.276 MILES.

ALL BEARINGS BASED ON STATE PLANE BEARINGS CENTRAL ZONE.

SMITH COMMERCIAL ENTERPRISES LP

NEW A2 SHOULDER

NEW 8" PINNED CONCRETE MEDIAN

SCALE
0 20 40 60

PLAN SHEET
SHEET 1 OF 5

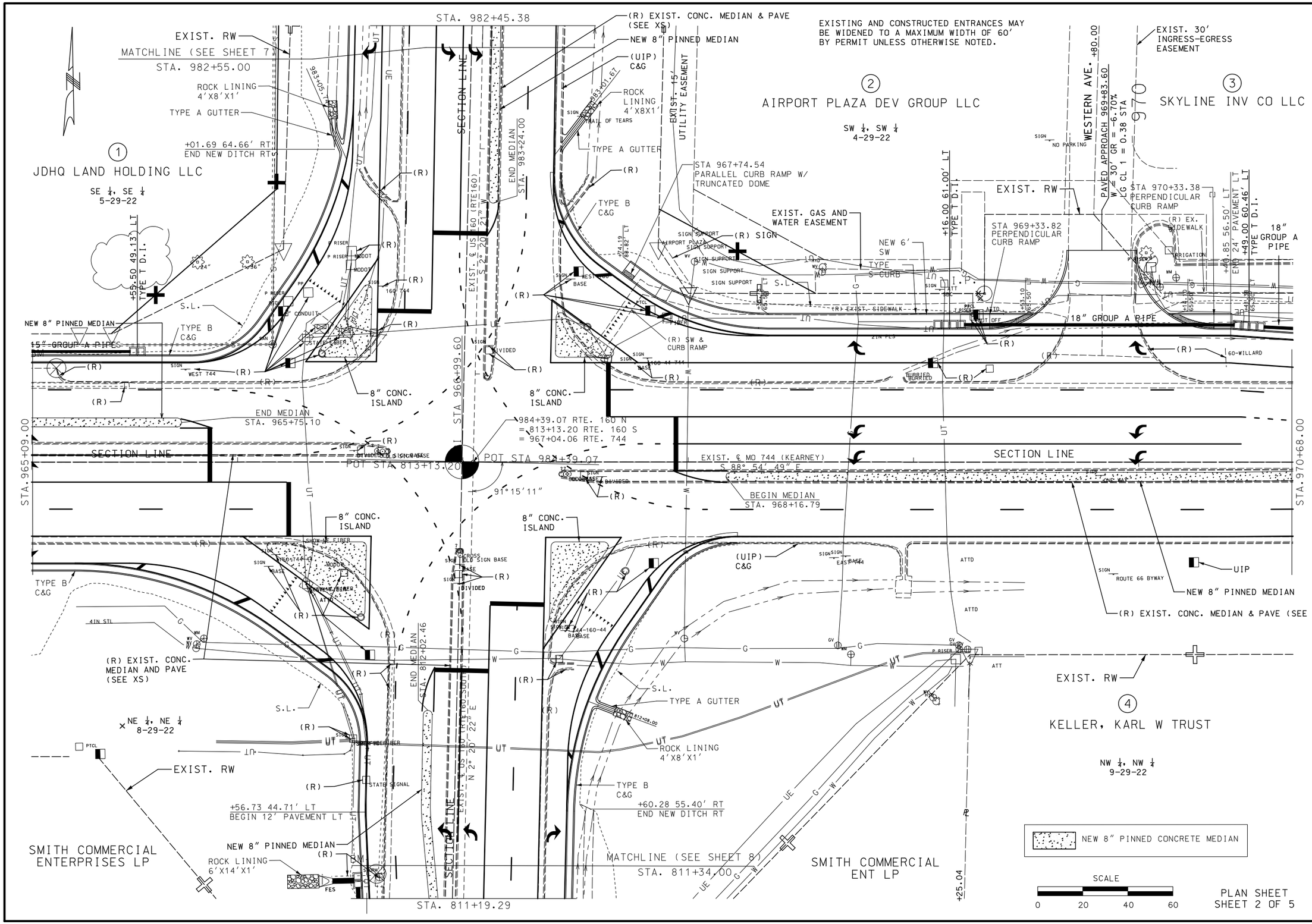
STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/5/2021	
ROUTE 744/160	STATE MO
DISTRICT SW	SHEET NO. 4
COUNTY GREENE	
JOB NO. J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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



PLAN SHEET
SHEET 2 OF 5

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/26/2021	
ROUTE	STATE
744/160	MO
DISTRICT	SHEET NO.
SW	5
COUNTY	
GREENE	
JOB NO.	
J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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

③

SKYLINE INV CO LLC

TAU MIDWEST LLC

SNA INVESTMENTS LLC

JADE PROPERTIES LLC

SW ¼, SW ¼
4-29-22

N. AIRPORT PLAZA AVE.
PAVED APPROACH 973+15.54
W = 45' GR = +2.35%
LG CL 1 = 0.40 STA

+54.68

+49.07

+54.25 60.2' LT
CONNECT EXIST. 4'X2.5' BOX

EXIST. 15' DRAINAGE EASEMENT

+25.85 50.76' LT
BEGIN RT TURN LANE TAPER LT

+25.85
END RT TURN LANE TAPER LT
BEGIN 2' FULL DEPTH PAVEMENT

+31.15
END 2' FULL DEPTH PAVEMENT
END TYPE B C&C

EXIST. 10' UTILITY EASEMENT

ROCK LINING
10'X12'X1'

18"
GROUP A
PIPE

NEW 6'
SW

TYPE A
GUTTER
STEEL PLATE
STA 971+21.55

EXIST. PERM. 20'
DRAINAGE EASEMENT

(R) EXIST. SIDEWALK & RAMP

(R) &
RELOCATE

UIP SAN.
SEWER

TYPE B
C&G

ADJUST CURB
INLET

UIP 4'X2.5'
BOX CULVERT

STA 972+90.32
PARALLEL CURB RAMP
W/ TRUNCATED DOME

STA 973+41.16
PARALLEL CURB RAMP
W/ TRUNCATED DOME

(R) EX
SW &
RAMP

UIP PB

EXIST. RW

END PROJECT
STA.975+73.37

975

STA.970+68.00

STA.976+27.00

EXIST. ℄ MO 744 (KEARNEY)
S 88° 54' 49" E

SECTION LINE

UIP EX. CONC.
MEDIAN

END MEDIAN
STA. 971+00.00

UIP

UIP EX.
DRAIN

(R) EX U2
SHLDR

UIP EX.
ENTRANCE

UIP EX.
PIPE

(R) EX U2
SHLDR

DND EX.
FENCE

+87.72
END COLDWILL
END TYPE C UBAWS

(R) EX U2
SHLDR

UIP EX.
ENTRANCE

NEW 8" PINNED MEDIAN

(R) EXIST.
CONC. MEDIAN
& PAVE (SEE
XS)

EXISTING AND CONSTRUCTED ENTRANCES MAY
BE WIDENED TO A MAXIMUM WIDTH OF 60'
BY PERMIT UNLESS OTHERWISE NOTED.

NEW 8" PINNED CONCRETE MEDIAN

SCALE
0 20 40 60

④

KELLER, KARL W TRUST

NW ¼, NW ¼
9-29-22

LAND TIE

NOT TO SCALE

SW¼ SEC 5 T-29 R-22 | SE¼ SEC 5 T-29 R-22 | SW¼ SEC 4 T-29 R-22
NW¼ SEC 8 T-29 R-22 | NE¼ SEC 8 T-29 R-22 | NW¼ SEC 9 T-29 R-22

Sec. Line — S 88° 57' 47" E 2657.67' — S 88° 54' 46" E 5.00' — ℄ Rte. 744 S 88° 54' 49" E

¼ Sec. Line

℄ Rte. 160 S 2° 20' 21" W

813+13.20 RTE. 160 S
= 966+99.60 RTE. 744

℄ Rte. 160 N 2° 20' 22" E

EIP ALUM CAP
¼ CORNER
BETWEEN 5,8
T29-R22
#600-96654

COMMON CORNER
4, 5, 8, 9
T29-R22
#600-13967

PLAN SHEET
SHEET 3 OF 5

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/5/2021	
ROUTE	STATE
744/160	MO
DISTRICT	SHEET NO.
SW	6
COUNTY	
GREENE	
JOB NO.	
J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

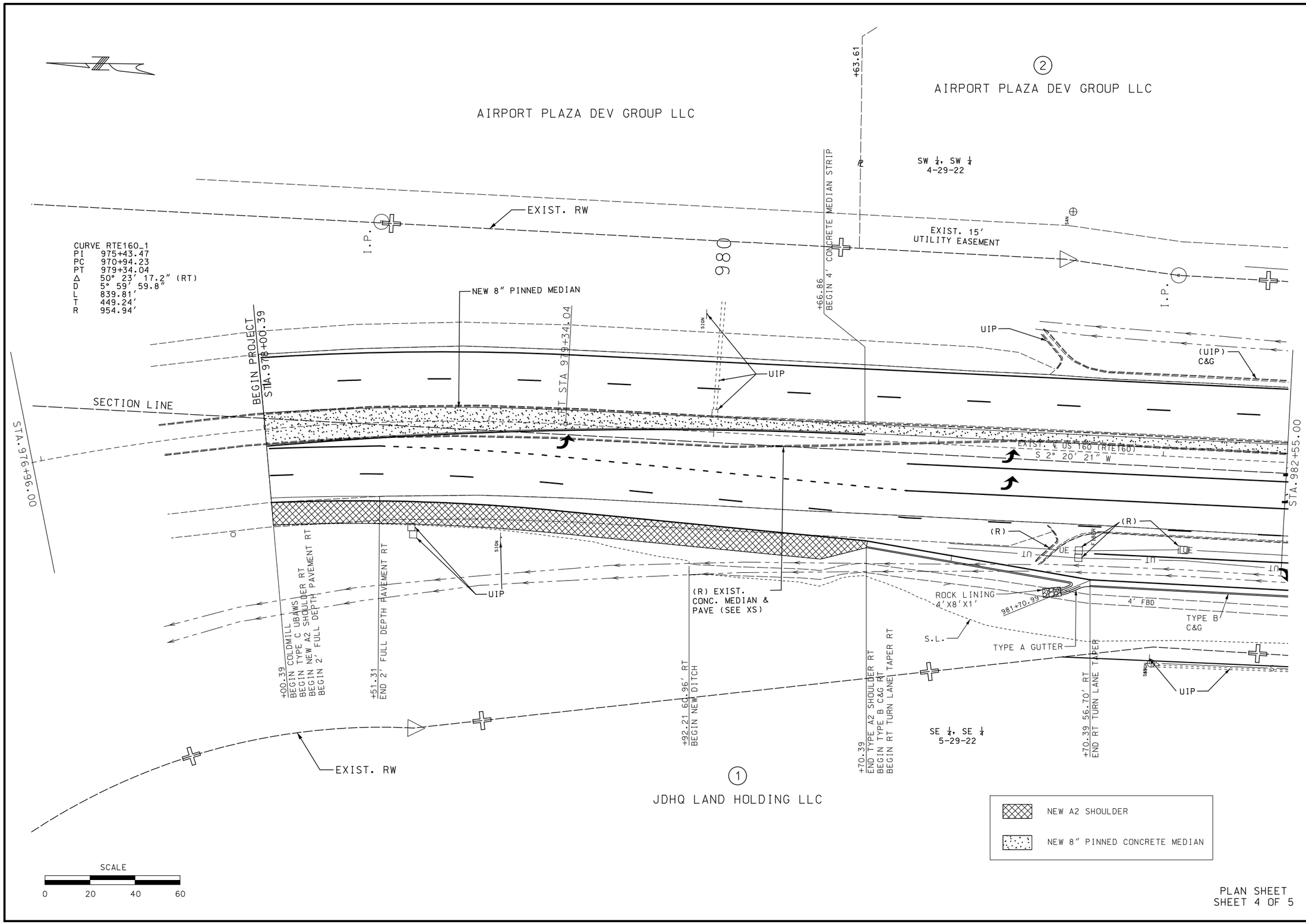
DESCRIPTION

DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



PLAN SHEET
SHEET 4 OF 5

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

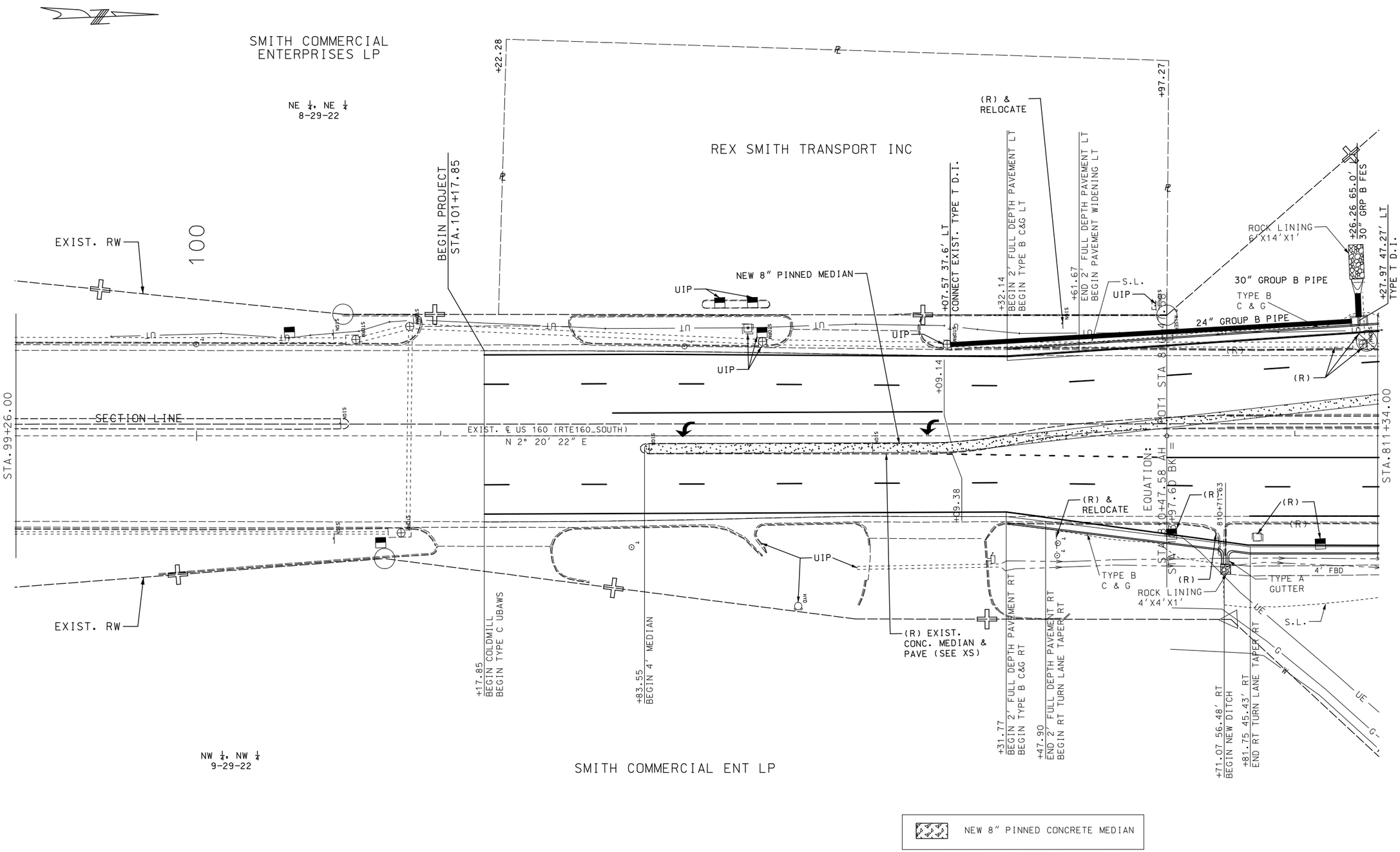
DATE PREPARED	
8/5/2021	
ROUTE	STATE
744/160	MO
DISTRICT	SHEET NO.
SW	7
COUNTY	
GREENE	
JOB NO.	
J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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



PLAN SHEET
SHEET 5 OF 5

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

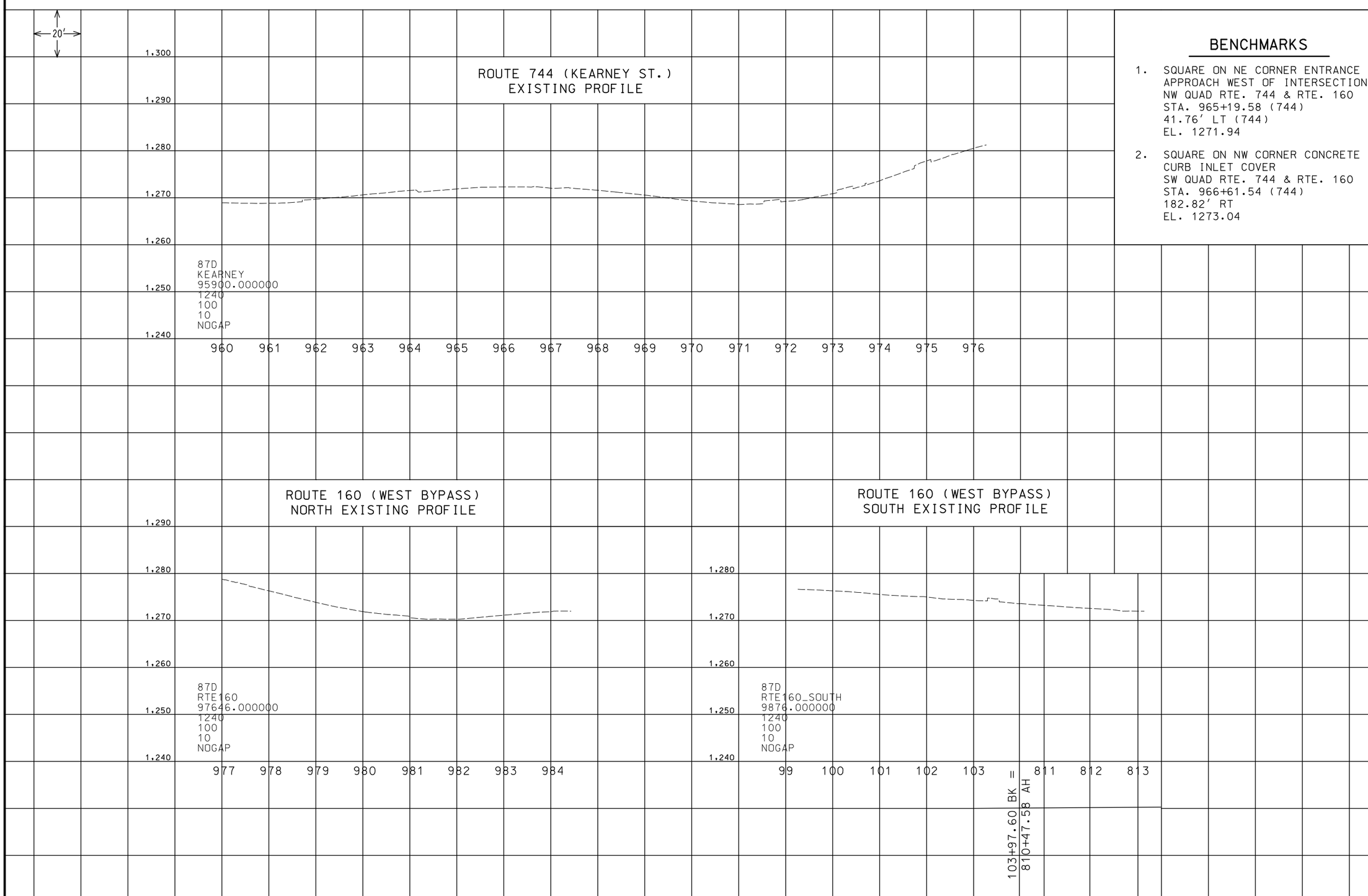
DATE PREPARED	8/5/2021
ROUTE	744/160
STATE	MO
DISTRICT	SW
SHEET NO.	8
COUNTY	GREENE
JOB NO.	J8P3087D
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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



BENCHMARKS

1. SQUARE ON NE CORNER ENTRANCE APPROACH WEST OF INTERSECTION
   NW QUAD RTE. 744 & RTE. 160
   STA. 965+19.58 (744)
   41.76' LT (744)
   EL. 1271.94

2. SQUARE ON NW CORNER CONCRETE CURB INLET COVER
   SW QUAD RTE. 744 & RTE. 160
   STA. 966+61.54 (744)
   182.82' RT
   EL. 1273.04

STATE OF MISSOURI
JASON D. EVENDEN
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DATE PREPARED	
8/5/2021	
ROUTE	STATE
744/160	MO
DISTRICT	SHEET NO.
SW	9
COUNTY	
GREENE	
JOB NO.	
J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

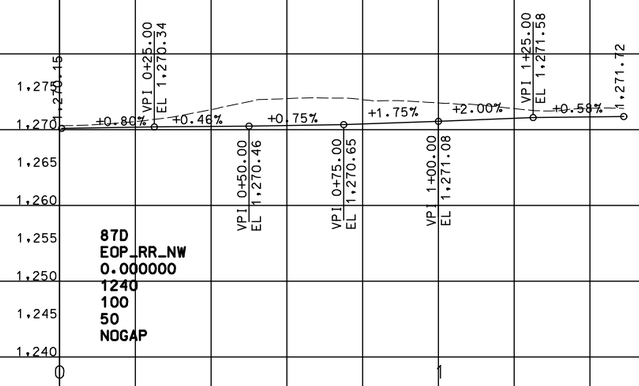
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

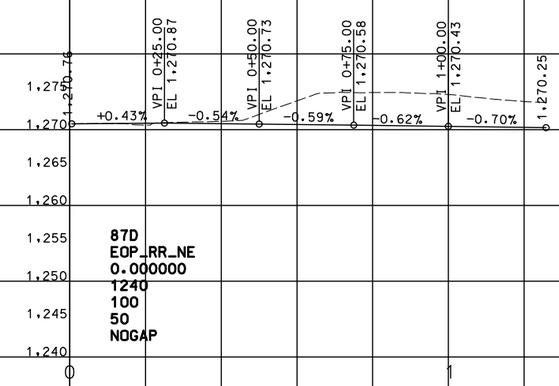
PROFILE SHEET
EXISTING PROFILES

20'

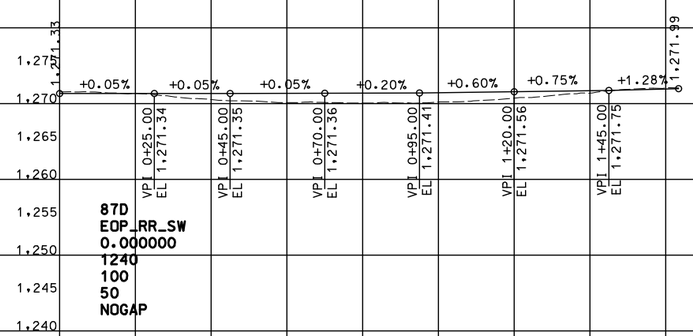
NORTHWEST EDGE OF PAVEMENT RADIUS PROFILE



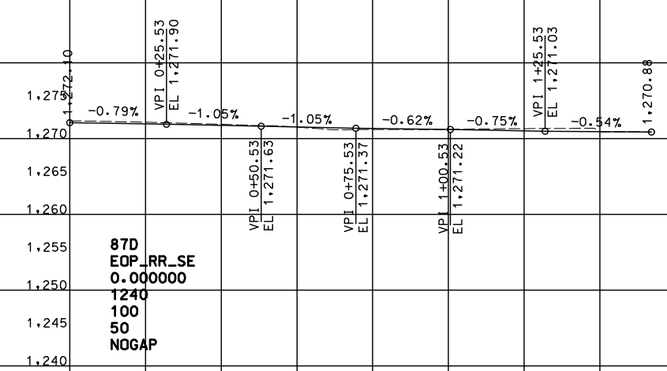
NORTHEAST EDGE OF PAVEMENT RADIUS PROFILE



SOUTHWEST EDGE OF PAVEMENT RADIUS PROFILE



SOUTHEAST EDGE OF PAVEMENT RADIUS PROFILE



STATE OF MISSOURI
JASON D. EVENDEN
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PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	8/5/2021
ROUTE	744/160
STATE	MO
DISTRICT	SW
SHEET NO.	10
COUNTY	GREENE
JOB NO.	J8P3087D
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

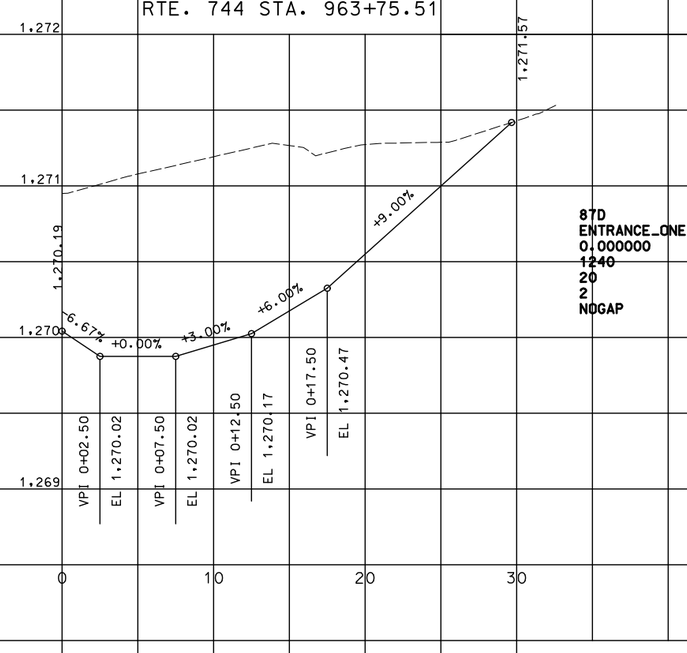
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

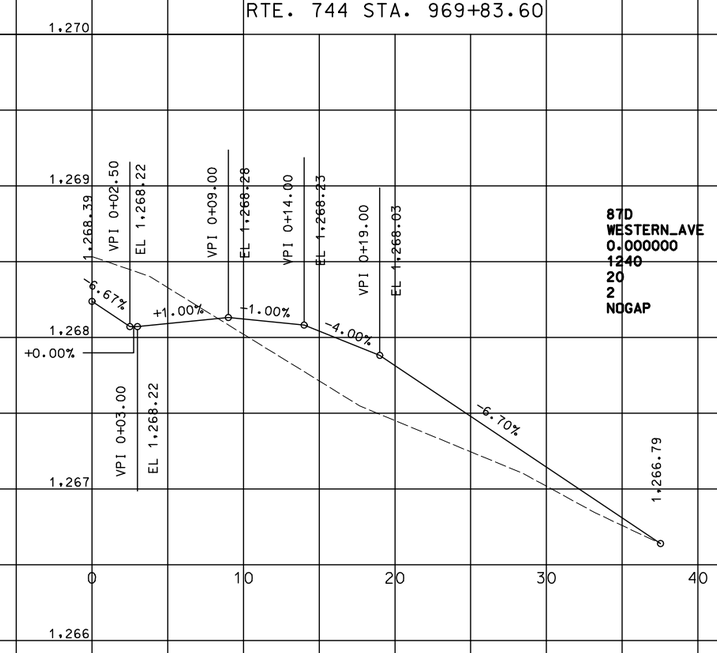
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PROFILE SHEET
EOP RADII

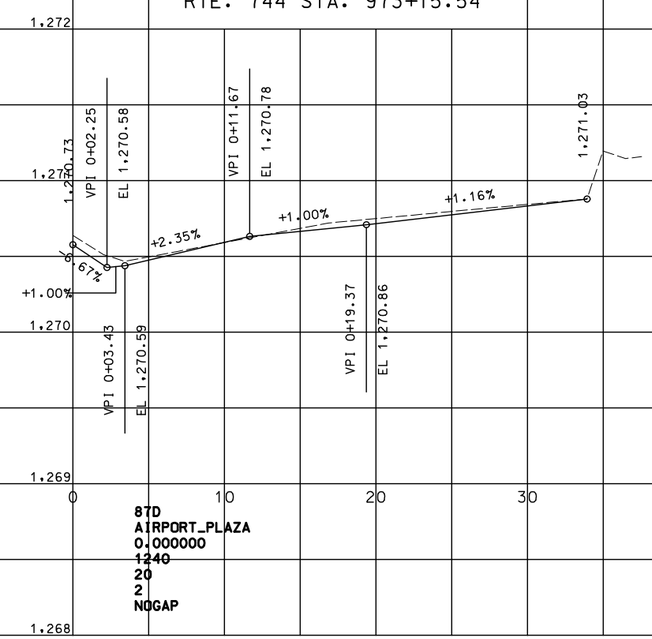
ENTRANCE 1 PROFILE
RTE. 744 STA. 963+75.51



WESTERN AVE PROFILE
RTE. 744 STA. 969+83.60



AIRPORT PLAZA AVE PROFILE
RTE. 744 STA. 973+15.54



STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	8/6/2021
ROUTE	744/160
STATE	MO
DISTRICT	SW
SHEET NO.	11
COUNTY	GREENE
JOB NO.	J8P3087D
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

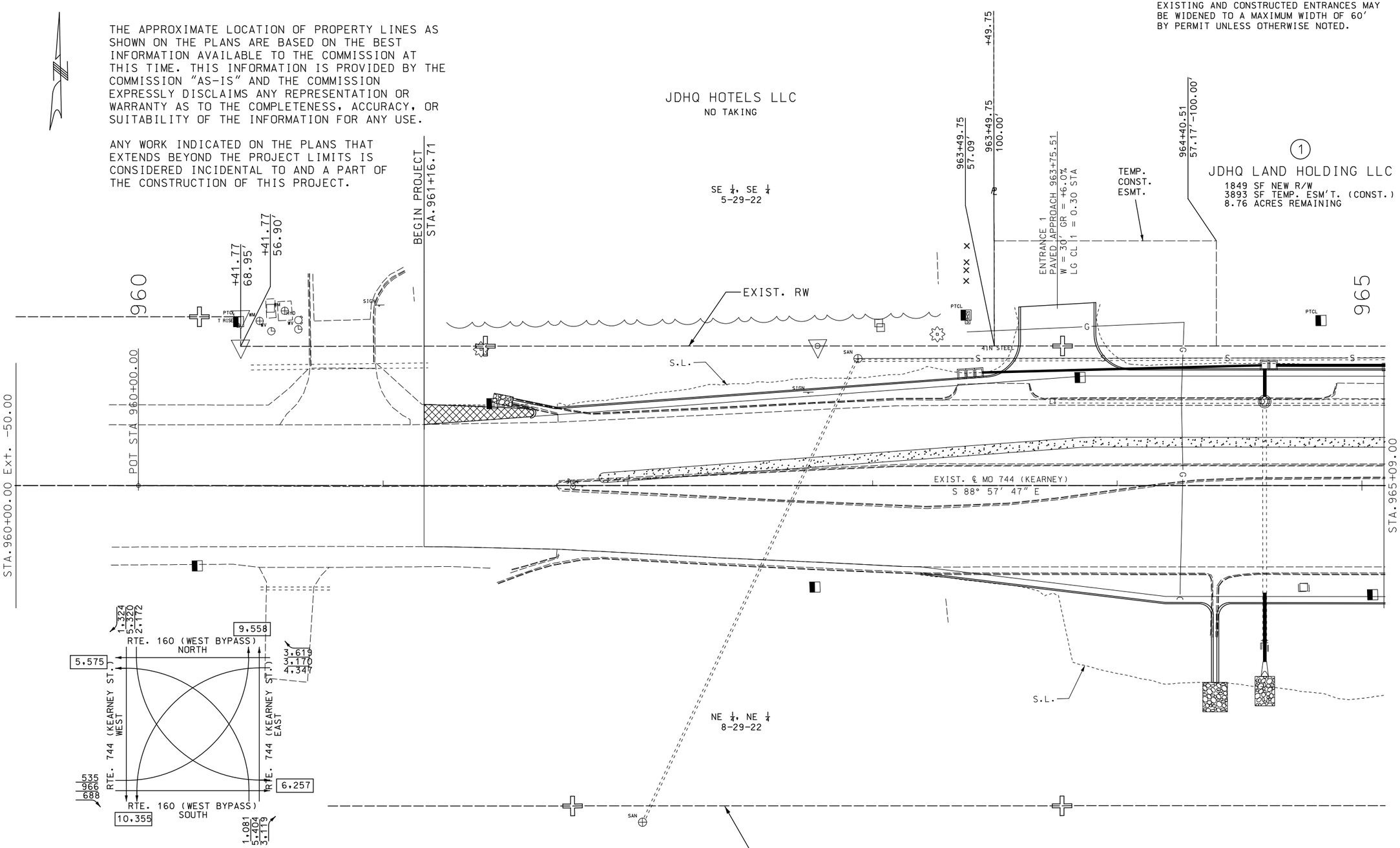
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

PROFILE SHEET
ENTRANCE PROFILES

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

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.

EXISTING AND CONSTRUCTED ENTRANCES MAY BE WIDENED TO A MAXIMUM WIDTH OF 60' BY PERMIT UNLESS OTHERWISE NOTED.



TRAFFIC FLOW DIAGRAM
ESTIMATED - 2040
TRAFFIC VOLUME

RIGHT OF WAY LIMITS FOR THIS PROJECT EXTEND ALONG RTE. 160 FROM STATION 978+00.39 TO STATION 101+17.85, A DISTANCE OF 0.224 MILES, AND ALONG RTE. 744 FROM STATION 961+16.71 TO STATION 975+73.37, A DISTANCE OF 0.276 MILES.

ALL BEARINGS BASED ON STATE PLANE BEARINGS CENTRAL ZONE.

NEW A2 SHOULDER

NEW 8" PINNED CONCRETE MEDIAN

SCALE

0 20 40 60

RIGHT OF WAY SHEET
SHEET 1 OF 4

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
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PROFESSIONAL ENGINEER

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DATE PREPARED	
8/5/2021	
ROUTE	STATE
744/160	MO
DISTRICT	SHEET NO.
SW	12
COUNTY	
GREENE	
JOB NO.	
J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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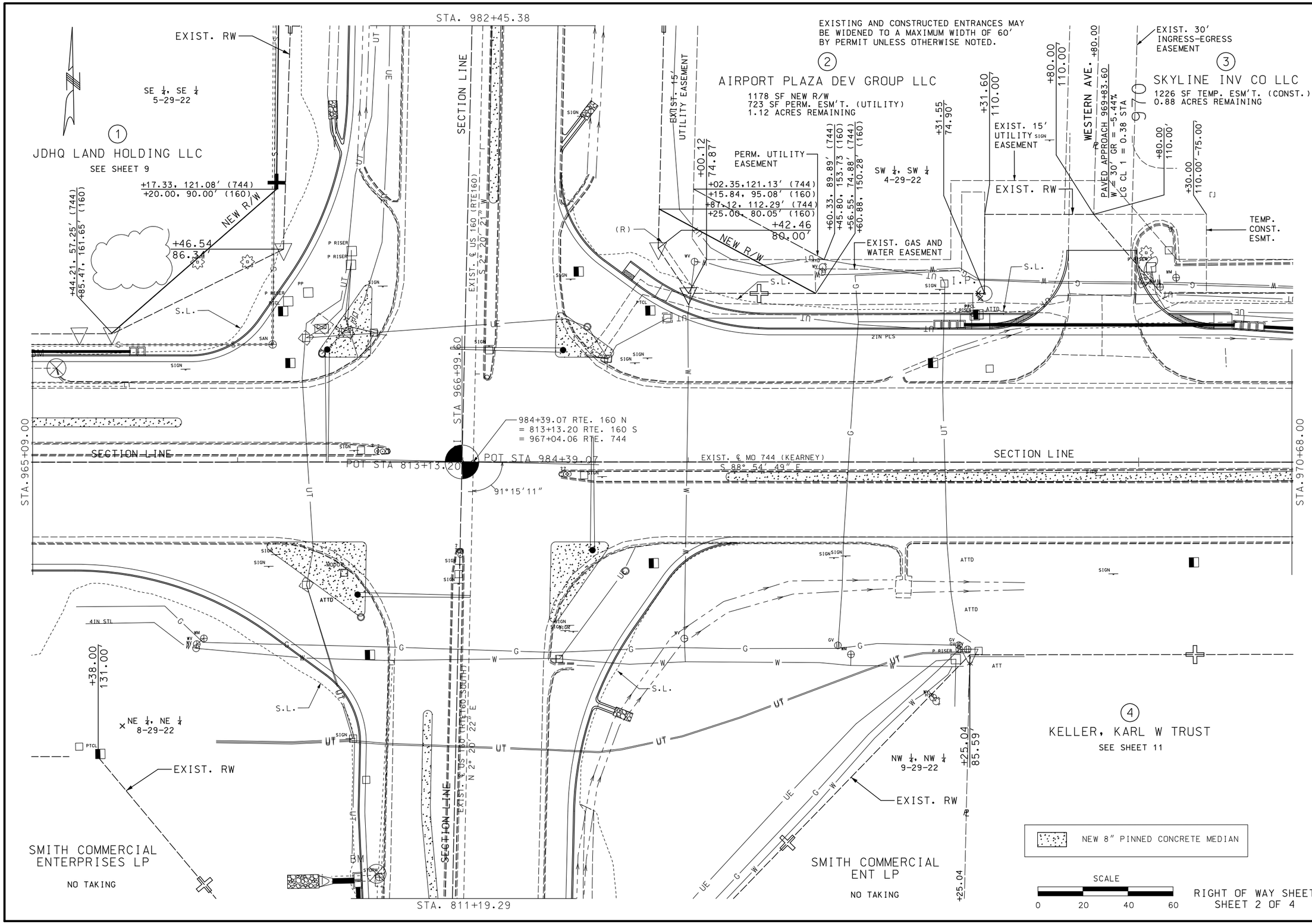


RIGHT OF WAY SHEET
SHEET 2 OF 4

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER

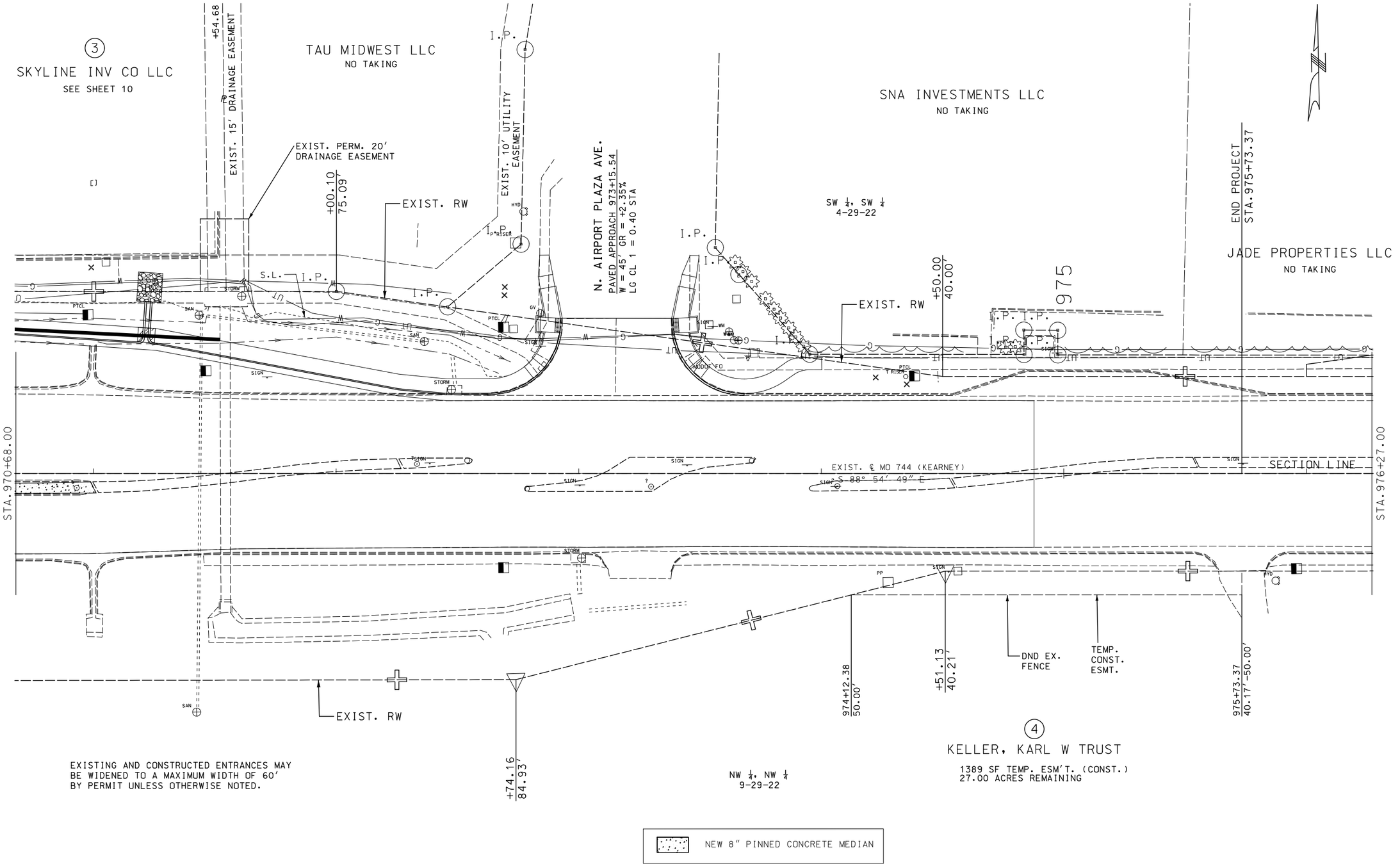
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/8/2021	
ROUTE	STATE
744/160	MO
DISTRICT	SHEET NO.
SW	13
COUNTY	
GREENE	
JOB NO.	
J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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



RIGHT OF WAY SHEET
SHEET 3 OF 4

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

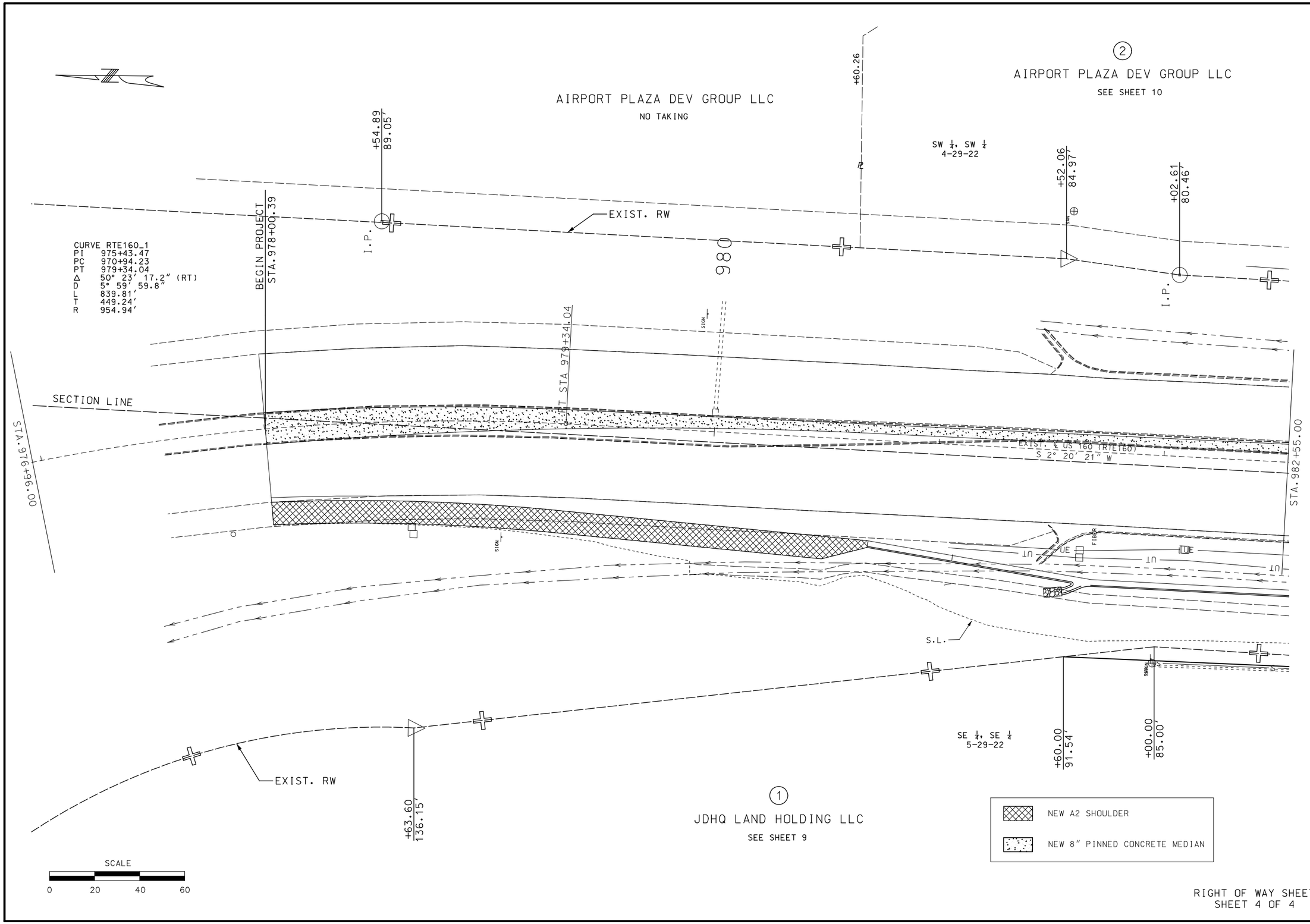
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/5/2021	
ROUTE	STATE
744/160	MO
DISTRICT	SHEET NO.
SW	14
COUNTY	
GREENE	
JOB NO.	
J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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



RIGHT OF WAY SHEET
SHEET 4 OF 4

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	8/5/2021
ROUTE	744/160
STATE	MO
DISTRICT	SW
SHEET NO.	15
COUNTY	GREENE
JOB NO.	J8P3087D
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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

ALL PROJECT COORDINATES HAVE BEEN PROJECTED FROM THE MISSOURI STATE PLANE COORDINATE (SPC) SYSTEM OF 1983 USING AN AVERAGE PROJECT PROJECTION (GRID TO GROUND) FACTOR. TO GET BACK TO STATE PLANE COORDINATES, MULTIPY THE PROJECT COORDINATES BY THE AVERAGE GRID FACTOR AS SHOWN IN THE "REFERENCE CONTROL INFORMATION" PORTION OF THIS TABLE.

PROJECT COORDINATE INFORMATION

COORDINATE SYSTEM	Modified State Plane
HORIZONTAL DATUM	NAD83
VERTICAL DATUM	NAVD88
GEOID MODEL	Geoid12B
ELEVATIONS DETERMINED BY	RTN GPS
PROJECT PROJECTION FACTOR	1.000041179

REFERENCE CONTROL INFORMATION

COORDINATE SYSTEM	Modified State Plane
CONTROL STATION	MoDOT GNSS
DESIGNATION	MoDOT Springfield CORS ARP
CORS_ID	MOSF
PID	DL5388
LATITUDE	37-14-30.33454
LONGITUDE	93-13-47.54333
NORTHING (M)	156530.8730
EASTING (M)	435242.8820
ZONE	2402 (MO-Central)
PROJECT AVERAGE GRID FACTOR	0.99995880

EXAMPLE OF PROJECT COORDINATE TO S.P.C.

PROJECT NORTHING X AVERAGE GRID FACTOR
= STATE PLANE NORTHING
PROJECT EASTING X AVERAGE GRID FACTOR
= STATE PLANE EASTING

EXAMPLE: CONTROL POINT #BM1
N 513,814.0113 X 0.99995880 = N 513,792.8422
E 1,393,572.0667 X 0.99995880 = E 1,393,514.6520

LINEAR UNIT CONVERSION

1 METER = 3.280833333 US SURVEY FEET (USFT)

COORDINATE POINT LISTING

SHEET NO	STATION	LOCATION	OFFSET (USFT)	MODIFIED STATE PLANE (GROUND) NORTHING (US SURVEY FT)	EASTING (US SURVEY FT)	ELEVATION (US SURVEY FT)	DESCRIPTION	GPK POINT ID
PROJECT CONTROL POINTS								
5	965+19.58	KEARNEY	41.76′ LT	513,814.0113	1,393,572.0667	1,271.93	BENCHMARK 1 - STTS STEHAO	
5	966+61.54	KEARNEY	182.82′ RT	513,586.8941	1,393,709.9394	1,272.90	BENCHMARK 2 - AINCRAEUF	
ALIGNMENTS								
℄ ROUTE 744 (KEARNEY)								
4	96+00.00	℄ ROUTE 744	0	513,781.6574	1,393,051.8153	1,268.94	POB	KEARNEY1
5	96+699.60	℄ ROUTE 744	0	513,768.9971	1,393,751.3007	1,272.04	PI	KEARNEY3
	98+150.00	℄ ROUTE 744	0	513,741.4973	1,395,201.4400	N/A	POE	KEARNEY4
℄ ROUTE 160 NORTH (RTE160)								
	970+94.23	℄ ROUTE 160	0	515,022.6909	1,393,461.1378	N/A	POB	
	970+94.23	℄ ROUTE 160	0	515,022.6909	1,393,461.1378	N/A	PC	
	975+43.47	℄ ROUTE 160	100.39′ LT	514,722.3775	1,393,795.2456	1,263.82	PI	
	N/A	℄ ROUTE 160	N/A	514,312.4843	1,392,822.7672	N/A	CC	
7	979+34.04	℄ ROUTE 160	0	514,273.5122	1,393,776.9116	1,273.00	PT	
5	984+39.07	℄ ROUTE 160	0	513,768.9030	1,393,756.2998	1,271.99	POE	RTE1603
℄ ROUTE 160 SOUTH (RTE160_SOUTH)								
	96+93.39	℄ ROUTE 160 SOUTH	0	512,799.8837	1,393,716.7117	N/A	POB	25
8	103+97.60	℄ ROUTE 160 SOUTH	0	513,503.5068	1,393,745.4574	1,273.60	EQN BK	14
8	810+47.58	℄ ROUTE 160 SOUTH	0	513,503.5068	1,393,745.4574	1,273.60	EQN AHD	17
8	810+47.58	℄ ROUTE 160 SOUTH	0	513,503.5068	1,393,745.4574	1,273.60	PI	23
5	813+13.20	℄ ROUTE 160 SOUTH	0	513,768.9030	1,393,756.2998	1,271.99	POE	27
EDGE OF PAVEMENT ℄ NW QUAD (EOP_RR_NW)								
5	0+00.00	EOP ℄ NW QUAD	0	513,932.3568	1,393,706.2547	1,270.14	POB	
5	0+00.00	EOP ℄ NW QUAD	0	513,932.3568	1,393,706.2547	1,270.14	PC	
5	0+45.52	EOP ℄ NW QUAD	6.75′ LT	513,886.8750	1,393,704.4087	1,270.59	PI	
	N/A	EOP ℄ NW QUAD	N/A	513,938.4402	1,393,556.3782	N/A	CC	
5	0+88.39	EOP ℄ NW QUAD	0	513,850.0895	1,393,677.5976	1,270.88	PT	
5	1+10.51	EOP ℄ NW QUAD	0	513,832.2103	1,393,664.5663	1,271.29	PC	
5	1+31.34	EOP ℄ NW QUAD	11.73′ LT	513,815.3828	1,393,664.5663	1,271.68	PI	
	N/A	EOP ℄ NW QUAD	N/A	513,855.7704	1,393,652.3017	N/A	CC	
5	1+48.91	EOP ℄ NW QUAD	0	513,815.7776	1,393,632.2414	1,271.72	PT	
5	1+48.91	EOP ℄ NW QUAD	0	513,815.7776	1,393,631.4827	1,271.72	POE	
EDGE OF PAVEMENT ℄ NE QUAD (EOP_RR_NE)								
5	0+00.00	EOP ℄ NE QUAD	0	513,896.7595	1,393,794.8965	1,270.76	POB	
5	0+00.00	EOP ℄ NE QUAD	0	513,896.7595	1,393,794.8965	1,270.76	PC	
5	0+26.01	EOP ℄ NE QUAD	6.36′ RT	513,870.7736	1,393,793.8567	1,271.01	PI	
	N/A	EOP ℄ NE QUAD	N/A	513,894.7605	1,393,844.8565	N/A	CC	
5	0+47.96	EOP ℄ NE QUAD	0	513,855.0029	1,393,814.5361	1,270.74	PT	
5	0+66.98	EOP ℄ NE QUAD	0	513,843.4684	1,393,829.6606	1,270.63	PC	
5	0+97.25	EOP ℄ NE QUAD	4.48′ RT	513,825.1141	1,393,853.7277	1,270.49	PI	
	N/A	EOP ℄ NE QUAD	N/A	513,922.9837	1,393,890.3015	N/A	CC	
5	1+25.76	EOP ℄ NE QUAD	0	513,823.1867	1,393,883.9334	1,270.25	PT	
5	1+25.76	EOP ℄ NE QUAD	0	513,823.1867	1,393,883.9334	1,270.25	POE	
EDGE OF PAVEMENT ℄ SE QUAD (EOP_RR_SE)								
5	0+00.00	EOP ℄ SE QUAD	0	513,613.1323	1,393,795.3812	1,272.10	POB	
5	0+00.00	EOP ℄ SE QUAD	0	513,613.1323	1,393,795.3812	1,272.10	PC	
5	0+45.52	EOP ℄ SE QUAD	6.75′ LT	513,658.6139	1,393,797.2273	1,271.82	PI	
	N/A	EOP ℄ SE QUAD	N/A	513,607.0486	1,393,945.2578	N/A	CC	
5	0+88.39	EOP ℄ SE QUAD	0	513,695.3993	1,393,824.0383	1,271.29	PT	
5	1+15.13	EOP ℄ SE QUAD	0	513,717.0094	1,393,839.7888	1,271.11	PC	
5	1+36.01	EOP ℄ SE QUAD	5.12′ LT	513,733.8805	1,393,852.0853	1,271.08	PI	
	N/A	EOP ℄ SE QUAD	N/A	513,693.4492	1,393,872.1140	N/A	CC	
5	1+53.61	EOP ℄ SE QUAD	0	513,733.4403	1,393,872.9574	1,270.87	PT	
5	1+53.61	EOP ℄ SE QUAD	0	513,733.4403	1,393,872.9574	1,270.87	POE	

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/5/2021
ROUTE 744/160 | STATE MO
DISTRICT SW | SHEET NO. 16
COUNTY GREENE
JOB NO. J8P3087D
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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

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

ALIGNMENTS (CONTINUED)								
EDGE OF PAVEMENT ℄ SW QUAD (EOP_RR_SW)								
5	0+00.00	EOP ℄ SW QUAD	0	513,726.7626	1,393,578.6878	1,271.33	POB	
5	0+00.00	EOP ℄ SW QUAD	0	513,726.7626	1,393,578.6878	1,271.33	PC	
5	0+49.08	EOP ℄ SW QUAD	7.83′ LT	513,725.8320	1,393,627.7617	1,271.47	PI	
	N/A	EOP ℄ SW QUAD	N/A	513,576.7896	1,393,575.8438	N/A	CC	
5	0+94.87	EOP ℄ SW QUAD	0	513,696.0718	1,393,666.7930	1,271.41	PT	
5	1+24.99	EOP ℄ SW QUAD	0	513,677.8083	1,393,690.7461	1,271.60	PC	
5	1+45.82	EOP ℄ SW QUAD	5.10′ LT	513,665.1789	1,393,707.3099	1,271.78	PI	
	N/A	EOP ℄ SW QUAD	N/A	513,645.9997	1,393,666.4930	N/A	CC	
5	1+63.40	EOP ℄ SW QUAD	0	513,644.3669	1,393,706.4597	1,271.99	PT	
5	1+63.40	EOP ℄ SW QUAD	0	513,644.3669	1,393,706.4597	1,271.99	POE	
℄ ENTRANCE 1 (ENTRANCE1)								
4	0+00.00	℄ ENTRANCE 1	0	513,818.8044	1,393,428.0629	1,270.19	POB	
4	0+29.66	℄ ENTRANCE 1	0	513,848.8764	1,393,428.5406	1,271.57	POE	
℄ ENTRANCE 2 (WesternAve)								
5	0+00.00	℄ ENTRANCE 2	0	513,820.1023	1,394,036.3437	1,268.39	POB	
5	0+37.53	℄ ENTRANCE 2	0	513,857.5960	1,394,037.0311	1,266.79	POE	
℄ ENTRANCE 3 (AirportPlaza)								
6	0+00.00	℄ ENTRANCE 3	0	513,787.3915	1,394,367.5472	1,270.73	POB	
6	0+33.93	℄ ENTRANCE 3	0	513,821.3095	1,394,368.2762	1,271.03	POE	

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/5/2021

ROUTE	STATE
744/160	MO
DISTRICT	SHEET NO.
SW	17

COUNTY
GREENE

JOB NO.
J8P3087D

CONTRACT ID.

PROJECT NO.

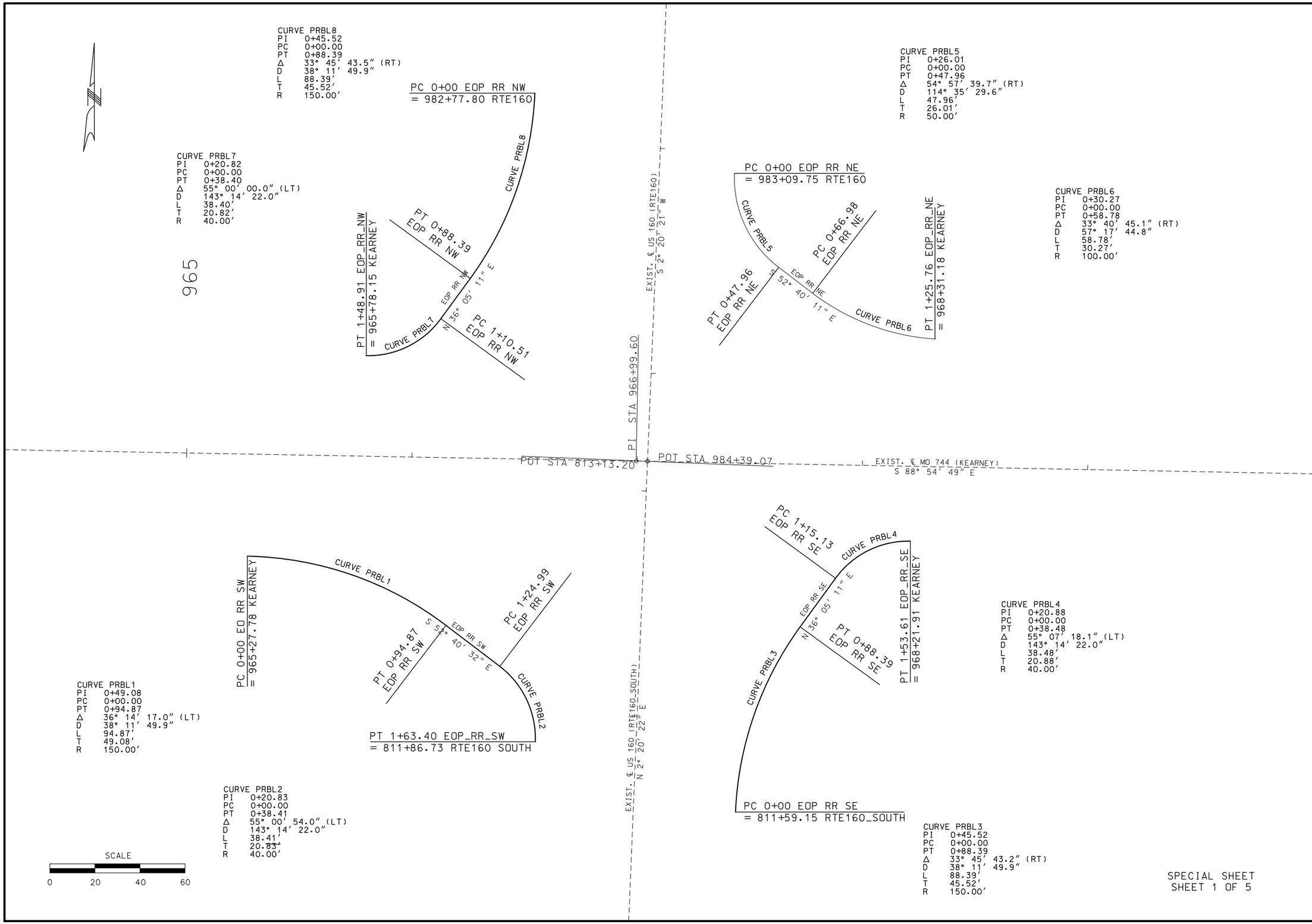
BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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



SPECIAL SHEET
SHEET 1 OF 5

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	8/5/2021
ROUTE	744/160
STATE	MO
DISTRICT	SW
SHEET NO.	18
COUNTY	GREENE
JOB NO.	J8P3087D
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

DATE

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

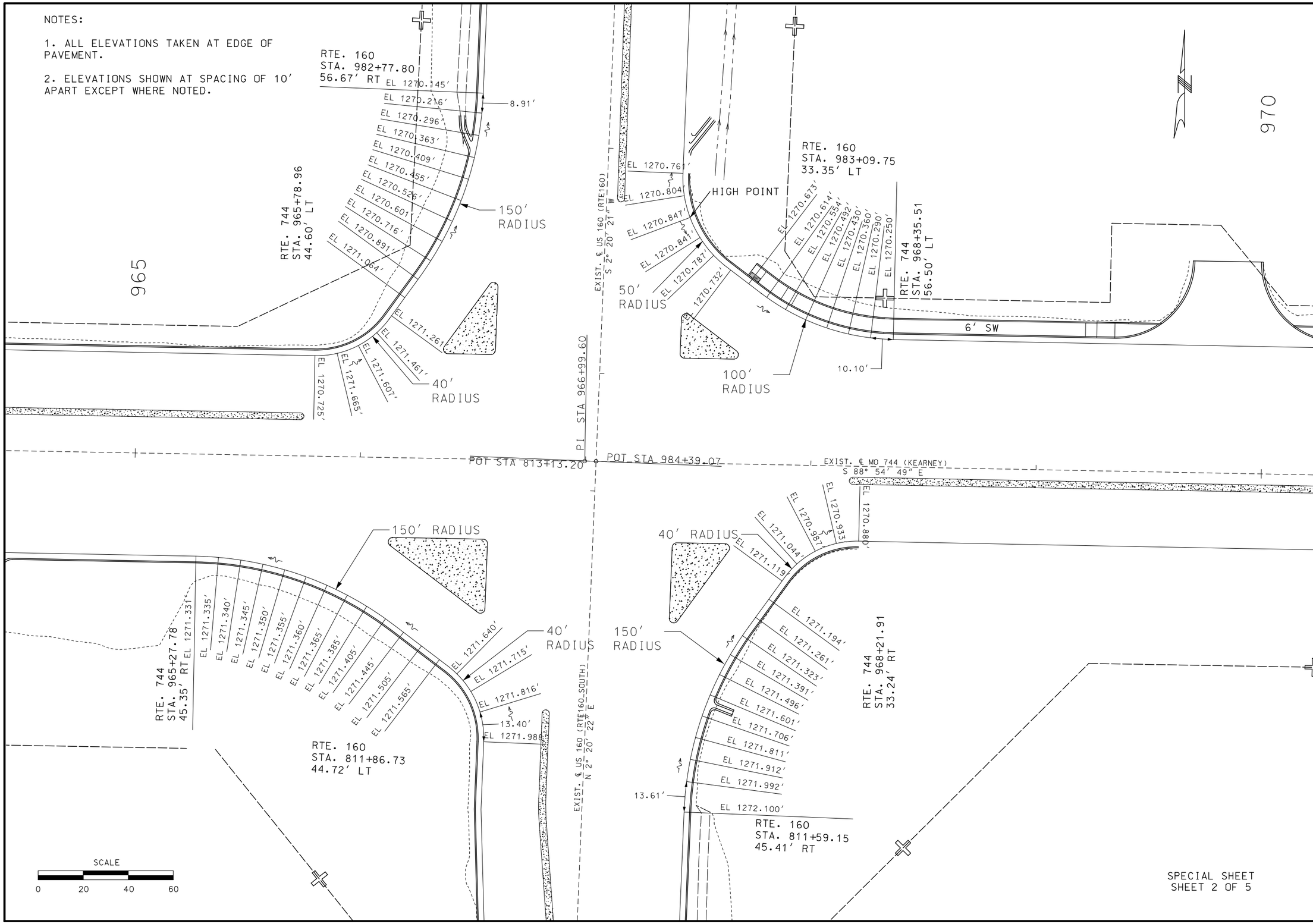
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

NOTES:

1. ALL ELEVATIONS TAKEN AT EDGE OF PAVEMENT.

2. ELEVATIONS SHOWN AT SPACING OF 10' APART EXCEPT WHERE NOTED.



SPECIAL SHEET
SHEET 2 OF 5

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	8/5/2021
ROUTE	744/160
STATE	MO
DISTRICT	SW
SHEET NO.	19
COUNTY	GREENE
JOB NO.	J8P3087D
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

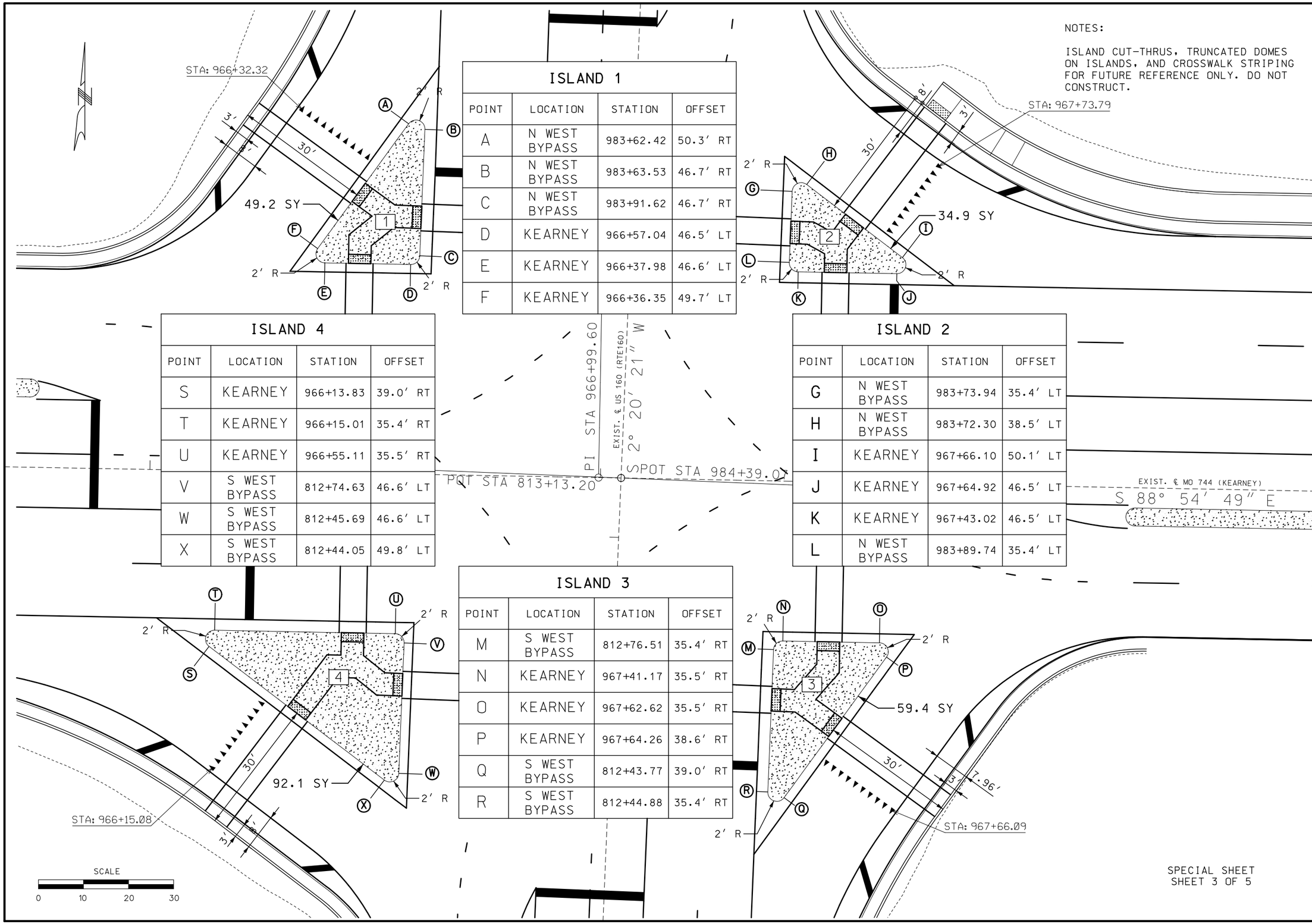
DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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



NOTES:

ISLAND CUT-THRUS, TRUNCATED DOMES ON ISLANDS, AND CROSSWALK STRIPING FOR FUTURE REFERENCE ONLY. DO NOT CONSTRUCT.

ISLAND 1

POINT	LOCATION	STATION	OFFSET
A	N WEST BYPASS	983+62.42	50.3' RT
B	N WEST BYPASS	983+63.53	46.7' RT
C	N WEST BYPASS	983+91.62	46.7' RT
D	KEARNEY	966+57.04	46.5' LT
E	KEARNEY	966+37.98	46.6' LT
F	KEARNEY	966+36.35	49.7' LT

ISLAND 2

POINT	LOCATION	STATION	OFFSET
G	N WEST BYPASS	983+73.94	35.4' LT
H	N WEST BYPASS	983+72.30	38.5' LT
I	KEARNEY	967+66.10	50.1' LT
J	KEARNEY	967+64.92	46.5' LT
K	KEARNEY	967+43.02	46.5' LT
L	N WEST BYPASS	983+89.74	35.4' LT

ISLAND 3

POINT	LOCATION	STATION	OFFSET
M	S WEST BYPASS	812+76.51	35.4' RT
N	KEARNEY	967+41.17	35.5' RT
O	KEARNEY	967+62.62	35.5' RT
P	KEARNEY	967+64.26	38.6' RT
Q	S WEST BYPASS	812+43.77	39.0' RT
R	S WEST BYPASS	812+44.88	35.4' RT

ISLAND 4

POINT	LOCATION	STATION	OFFSET
S	KEARNEY	966+13.83	39.0' RT
T	KEARNEY	966+15.01	35.4' RT
U	KEARNEY	966+55.11	35.5' RT
V	S WEST BYPASS	812+74.63	46.6' LT
W	S WEST BYPASS	812+45.69	46.6' LT
X	S WEST BYPASS	812+44.05	49.8' LT

SPECIAL SHEET
SHEET 3 OF 5

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	8/8/2021
ROUTE	744/160
STATE	MO
DISTRICT	SW
SHEET NO.	20
COUNTY	GREENE
JOB NO.	J8P3087D
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

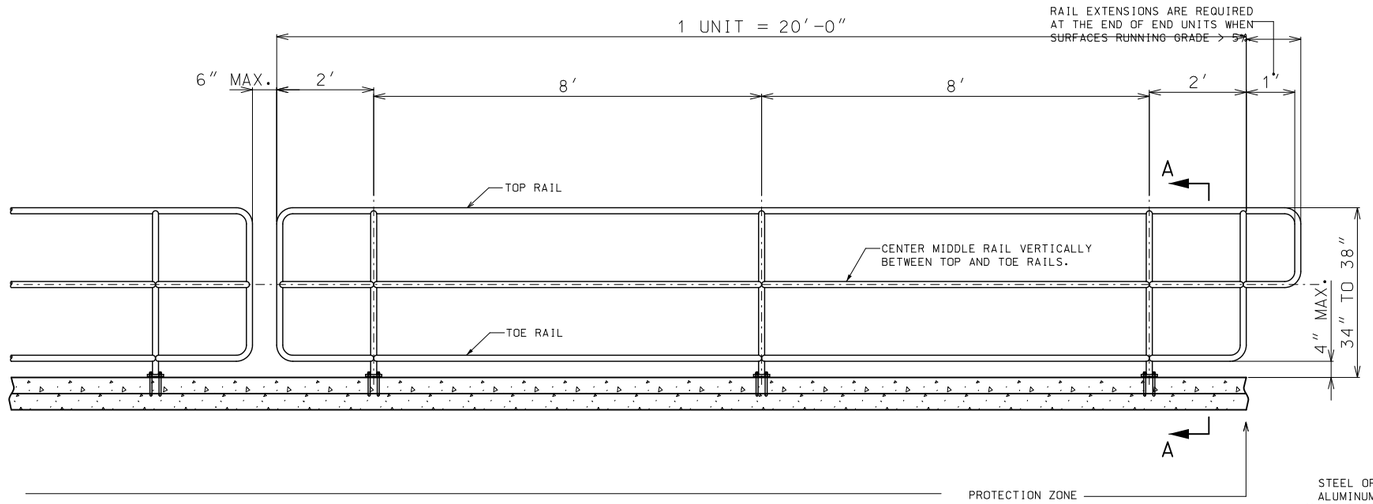
DESCRIPTION

DATE

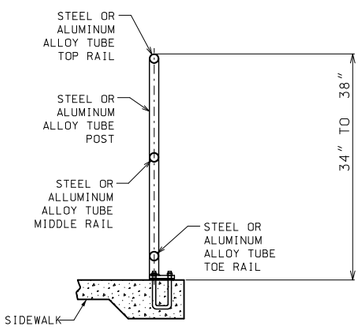
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

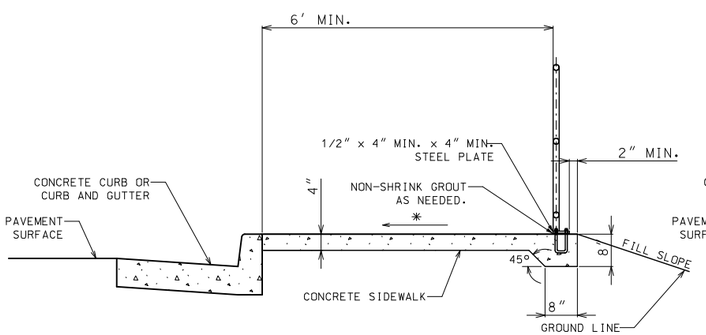
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)



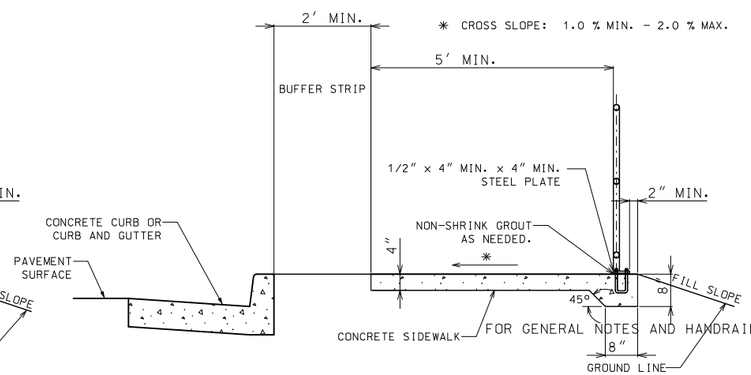
SIDEWALK HANDRAILING WITHOUT BALUSTERS



HANDRAILING



SIDEWALK WITHOUT BUFFER STRIP (SECTION A-A)



SIDEWALK WITH BUFFER STRIP (SECTION A-A)

FOR GENERAL NOTES AND HANDRAILING REQUIREMENTS ON FILL SLOPES SEE 608.40A SHEET 3 OF 4

HANDRAILING
608.40A
STA: 971+40.00 TO STA: 971+65.00
PROPOSED HANDRAIL SECTION

SPECIAL SHEET
SHEET 4 OF 5

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/5/2021	
ROUTE	STATE
744/160	MO
DISTRICT	SHEET NO.
SW	21
COUNTY	
GREENE	
JOB NO.	
J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

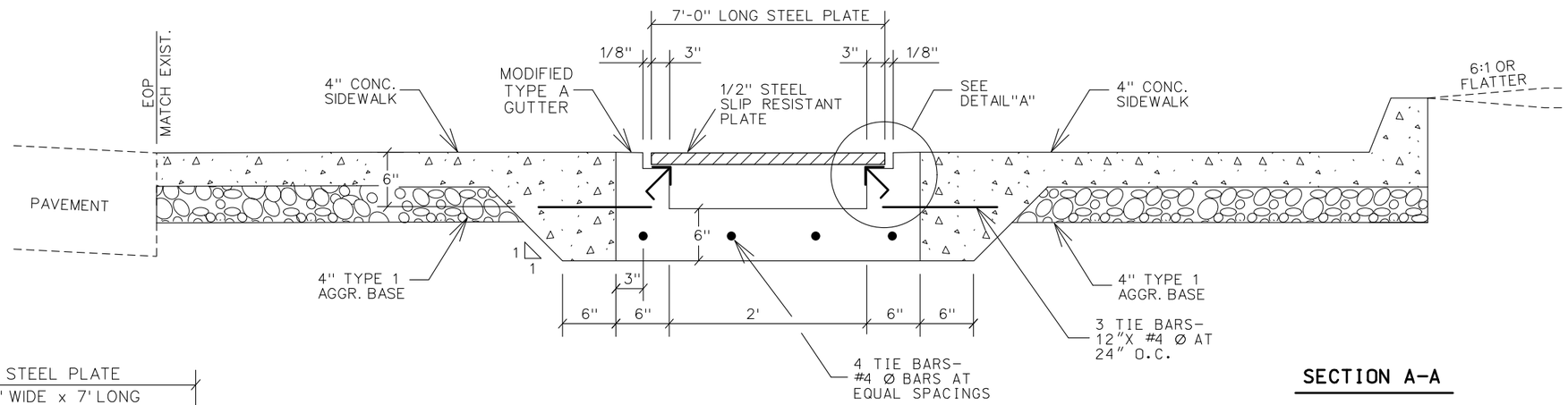
DATE	DESCRIPTION

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

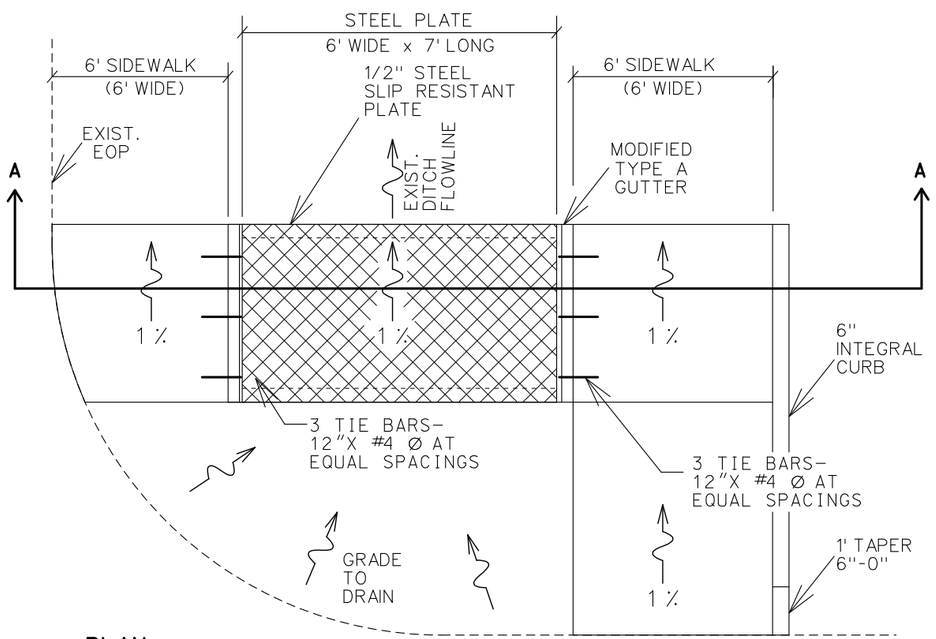
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

NOTES:

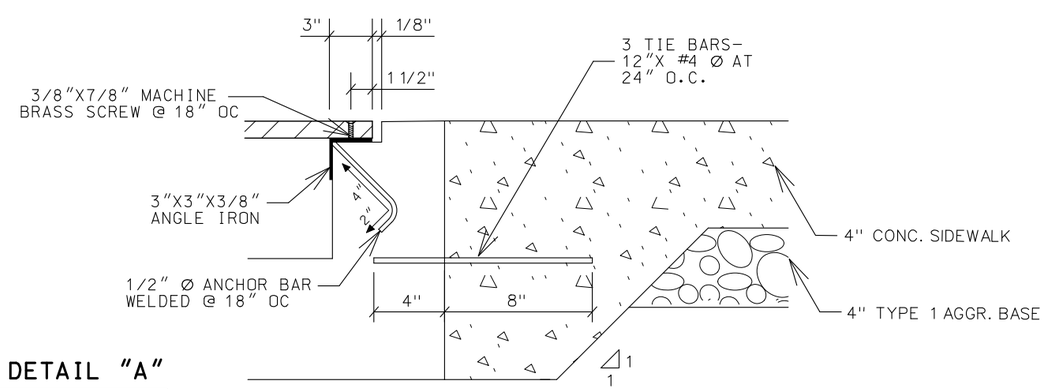
1. THE 1/2" STEEL SLIP-RESISTANT PLATE SHALL HAVE A MIN. STATIC COEFFICIENT OF FRICTION OF 0.6.
2. FLATHEAD BRASS MACHINE SCREWS 3/8" x 7/8". HOLES SHALL BE DRILLED AND TAPPED IN THE FIELD AT INTERVALS NOT TO EXCEED 18" CENTER TO CENTER (NO DIRECT PAY).
3. ALL REINFORCING STEEL BARS SHALL BE EPOXY COATED (NO DIRECT PAY).
4. ALL REINFORCING STEEL, ANCHOR BARS, ANGLE IRON, SCREWS, AND 'T' SUPPORTS SHALL BE INCIDENTAL (NO DIRECT PAY).



SECTION A-A



PLAN



DETAIL "A"

STA. 971+21.80

MODIFIED TYPE A GUTTER W/ STEEL PLATE

NOT TO SCALE

SPECIAL SHEET
5 OF 5

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

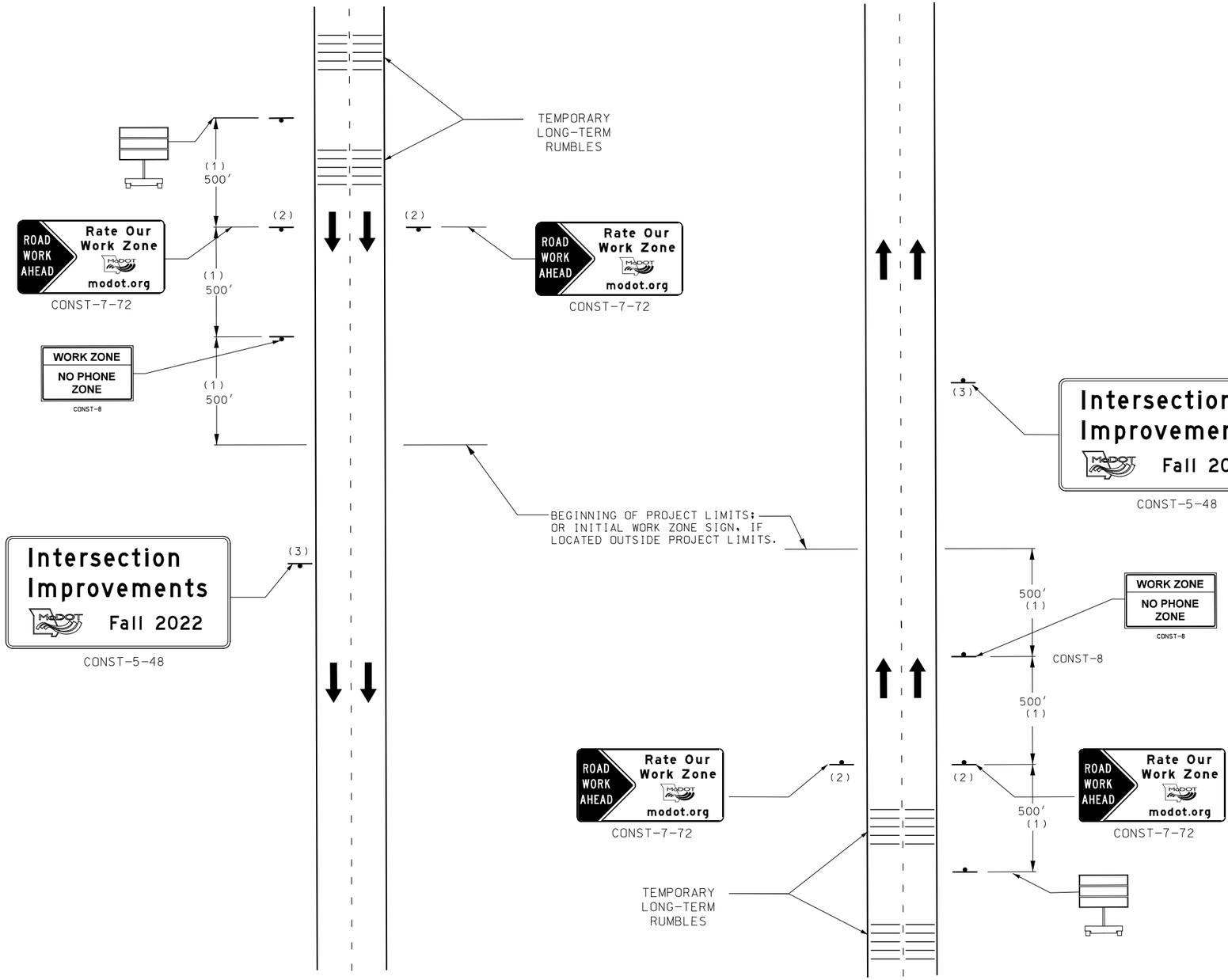
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/6/2021	
ROUTE	STATE
744/160	MO
DISTRICT	SHEET NO.
SW	22
COUNTY	
GREENE	
JOB NO.	
J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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



BEGIN/END OF PROJECT SIGNING
MULTI-LANE DIVIDED

NOTES:

SIGN (1) IS ONLY REQUIRED ON PROJECTS OF 2 MILES OR GREATER IN LENGTH.

SIGN (26) IS USED ON ALL PROJECTS WHERE SIGN (1) IS USED.

OTHER SIGNS SUCH AS DETOUR OR ALTERNATE ROUTE SIGNING MAY BE USED OUTSIDE THE PROJECT LIMITS.

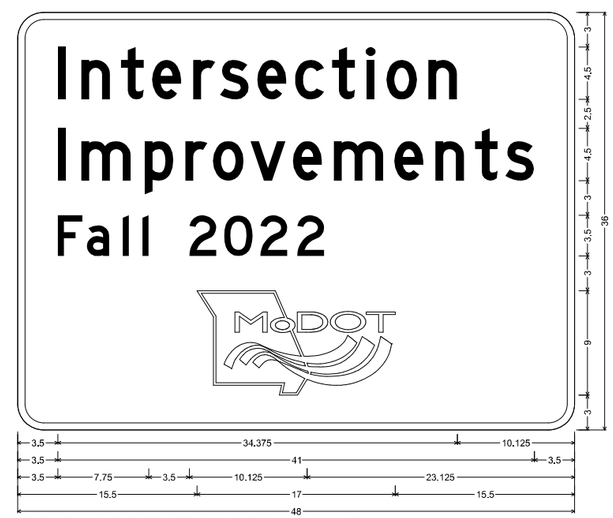
ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.

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

(2) SIGN CONST-7-72 OR CONST-7-48 IS PLACED 500 FEET BEFORE THE BEGINNING OF PROJECT LIMITS OR THE ROAD WORK AHEAD SIGN OR ROAD WORK NEXT XX MILES SIGN, IF USED, WHEN THESE SIGNS ARE LOCATED OUTSIDE THE PROJECT LIMITS.

(3) SIGN CONST-5-96 OR CONST-5-36 SIGN IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS. IF A VISIBLE LOCATION WITHIN THE PROJECT IS NOT AVAILABLE, THE SIGN MAY BE PLACED 500 FEET BEFORE SIGN CONST-7-72 OR CONST-7-48.

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



CONST-5-48 SH-FLAT SHEET; 2.250" Radius, 0.625" Border, White on Blue;
[Intersection] D 85% spacing; [Improvements] D 85% spacing; [Fall 2021] D;
Table of letter and object lefts.

I 3.500	n 5.500	t 8.875	e 11.625	r 15.125	s 17.375	e 20.625	c 23.875	t 27.125	I 30.125	o 31.750	n 35.375		
I 3.500	m 5.500	p 11.000	r 14.500	o 16.875	v 20.125	e 23.750	m 27.250	e 32.500	n 36.000	t 39.375	s 42.000		
F 3.500	a 6.000	l 9.000	l 10.750	2 14.750	0 17.750	2 20.875	2 24.125						
☛ 15.500													

TRAFFIC CONTROL
SHEET 1 OF 10

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

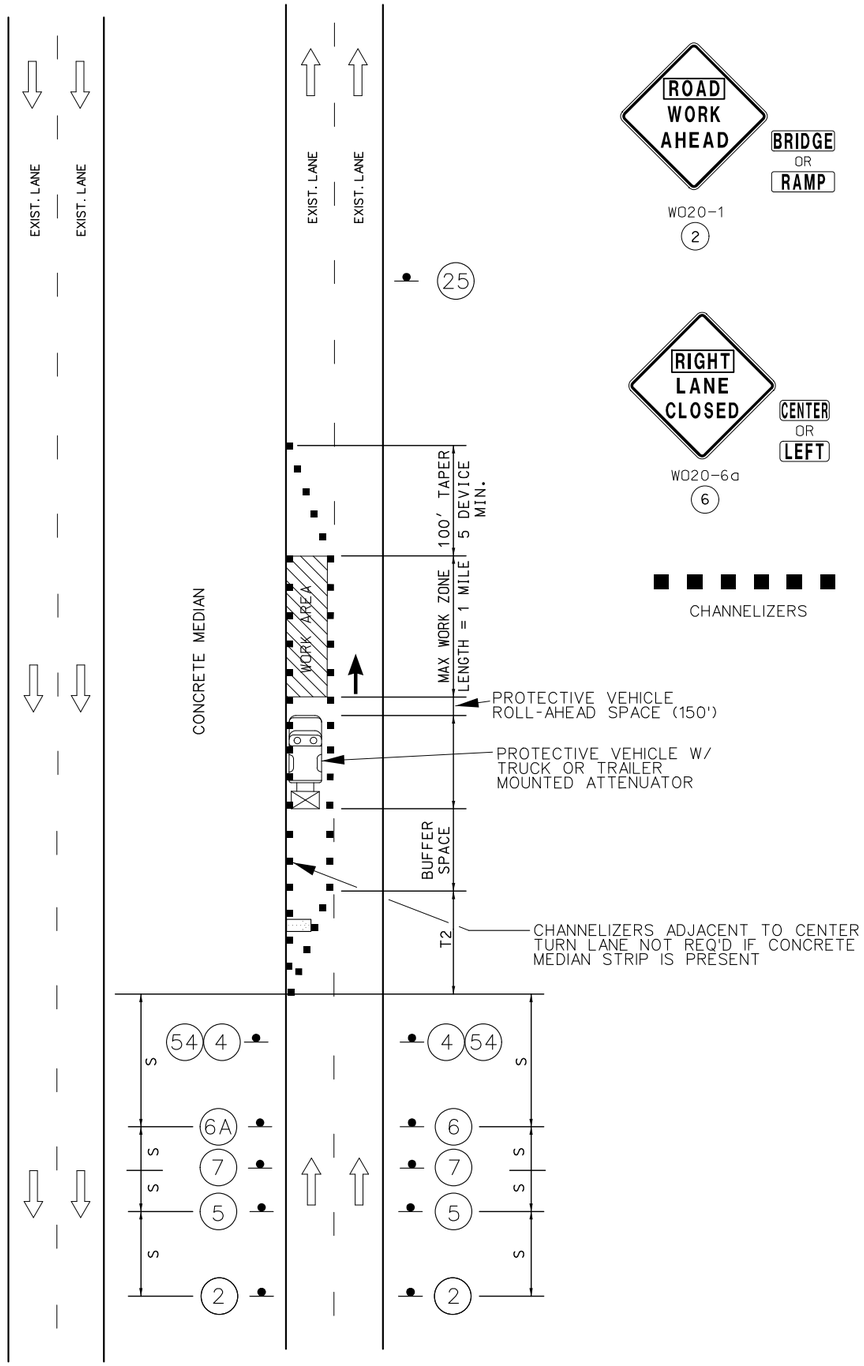
DATE PREPARED	
8/5/2021	
ROUTE 744/160	STATE MO
DISTRICT SW	SHEET NO. 23
COUNTY GREENE	
JOB NO. J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

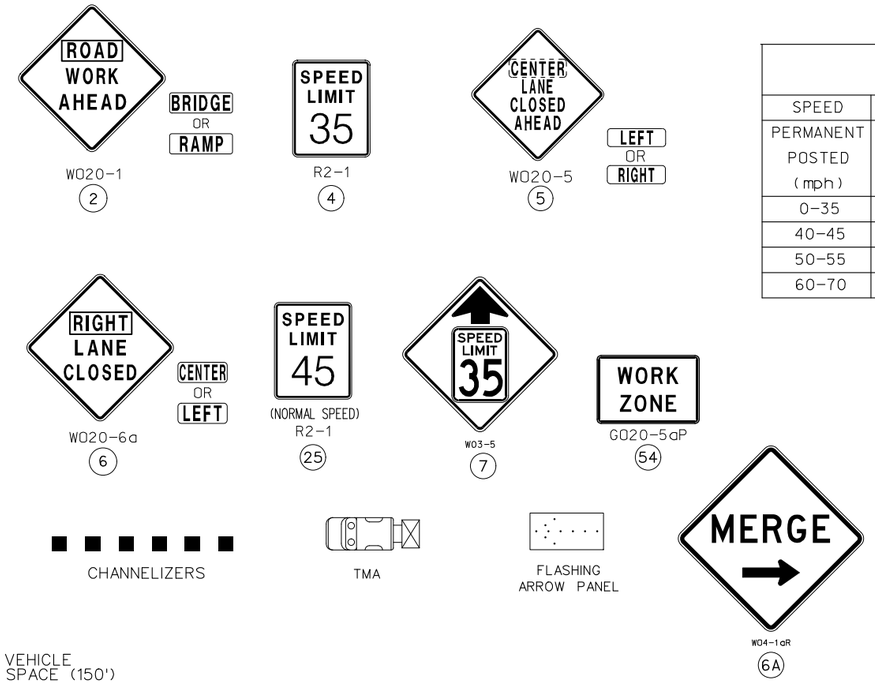
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.



PASSING LANE CLOSURE

NOT TO SCALE



TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES					
SPEED	TAPER LENGTH (FT)		OPTIONAL	CHANNELIZER SPACING (FT)	
PERMANENT POSTED (mph)	SHOULDER (T1)	LANE (T2)	BUFFER LENGTH (FT) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	70	245	280	35	40
40-45	150	540	400	40	80
50-55	185	660	560	50	80
60-70	235	840	840	60	120

SIGN SPACING FOR ADVANCE SIGN SERIES SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION. SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.	
SPEED	SIGN SPACING (FT)
PERMANENT POSTED (mph)	DIVIDED (S)
0-35	200
40-45	500
50-55	1000
60-70	SA-1000 SB-1500 SC-2640

SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.

LANE TAPER LENGTH BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.

NOTES:

SEE BEGINNING OF PROJECT SIGNING SHEET FOR ADDITIONAL SIGNS.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES, NO DIRECT PAY.

NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, CONSTRUCTION SIGNS, OR FLASHING ARROW PANEL.

FOR SHORT TERM OPERATIONS WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, DEVICE SPACING ARE ONE-HALF OF THE SPACING SHOWN IN THE TABLE.

SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTRED WITHIN THE NEXT 1/2 MILE.

ALL SIGNS, EXCEPT "RATE OUR WORK ZONE" AND "POINT OF PRESENCE", SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS.

WORK WILL REQUIRE LANE CLOSURES UNLESS OTHERWISE APPROVED BY THE ENGINEER.

LAYOUT IS TYPICAL FOR EITHER DIRECTION OF TRAFFIC.

SEE STANDARD DRAWING 616.10 FOR ADDITIONAL DETAILS.

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

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/5/2021

ROUTE	STATE
744/160	MO
DISTRICT	SHEET NO.
SW	24

COUNTY GREENE

JOB NO. J8P3087D

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

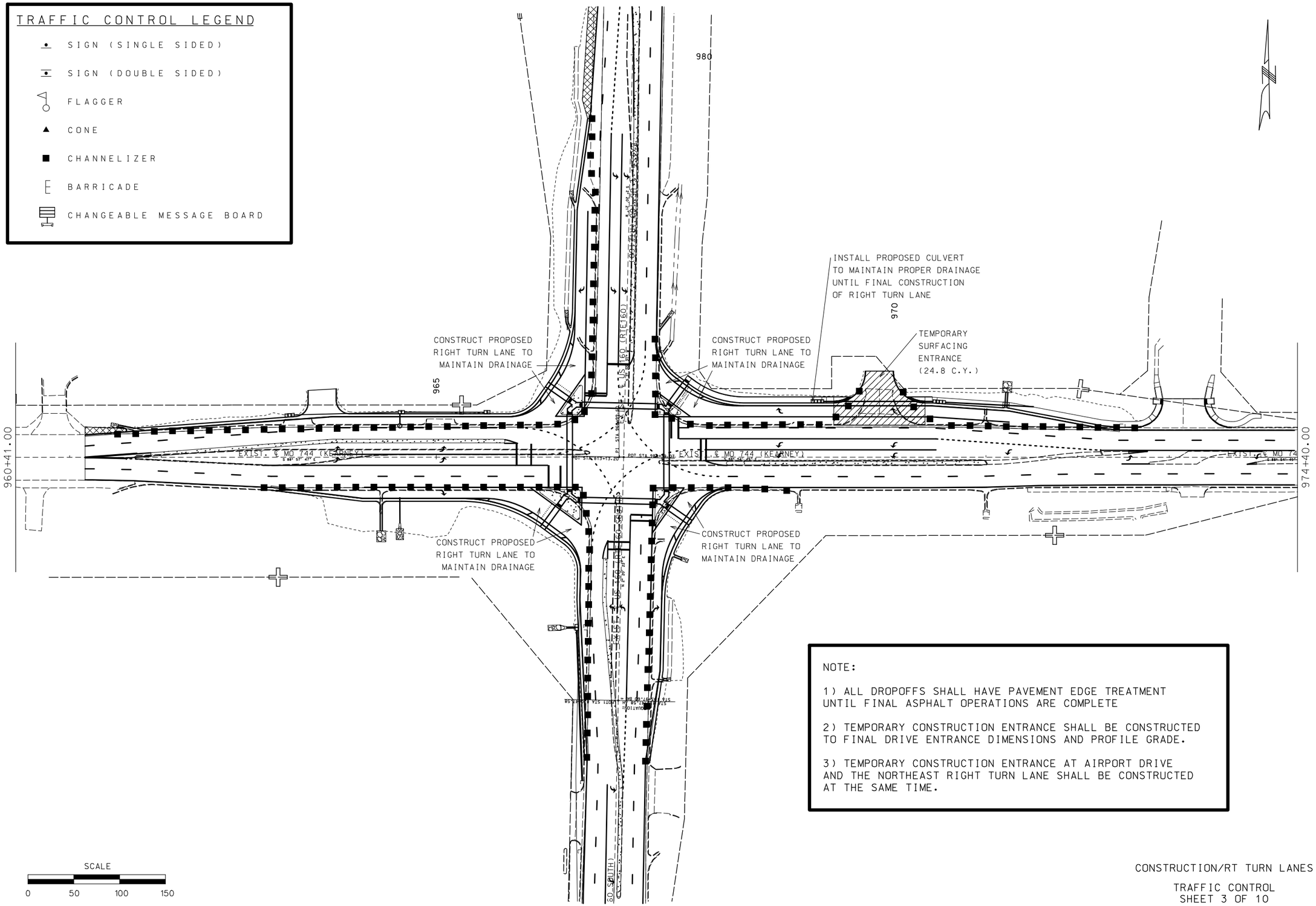
DATE	DESCRIPTION

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

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

TRAFFIC CONTROL LEGEND

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



NOTE:

1) ALL DROPOFFS SHALL HAVE PAVEMENT EDGE TREATMENT UNTIL FINAL ASPHALT OPERATIONS ARE COMPLETE

2) TEMPORARY CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED TO FINAL DRIVE ENTRANCE DIMENSIONS AND PROFILE GRADE.

3) TEMPORARY CONSTRUCTION ENTRANCE AT AIRPORT DRIVE AND THE NORTHEAST RIGHT TURN LANE SHALL BE CONSTRUCTED AT THE SAME TIME.

CONSTRUCTION/RT TURN LANES

TRAFFIC CONTROL
SHEET 3 OF 10

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

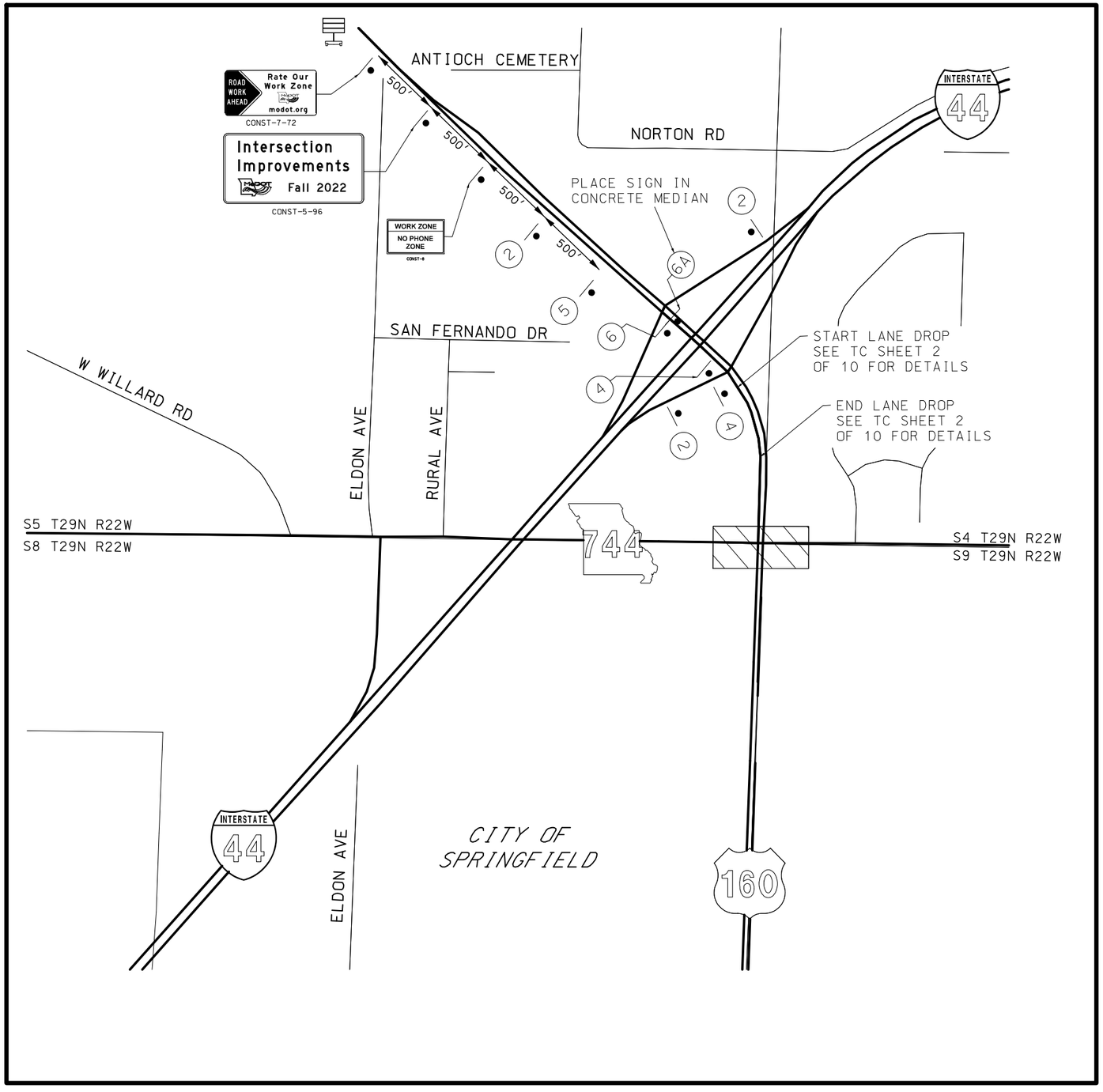
DATE PREPARED	
8/5/2021	
ROUTE	STATE
160/744	MO
DISTRICT	SHEET NO.
SW	25
COUNTY	
GREENE	
JOB NO.	
J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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



W04-1aR

6A

W020-1

2

BRIDGE
OR
RAMP

R2-1

4

W020-5

5

LEFT
OR
RIGHT

W020-6a

6

CENTER
OR
LEFT

TRAFFIC CONTROL LEGEND

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

NOT TO SCALE

TRAFFIC CONTROL
SHEET 4 OF 10

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

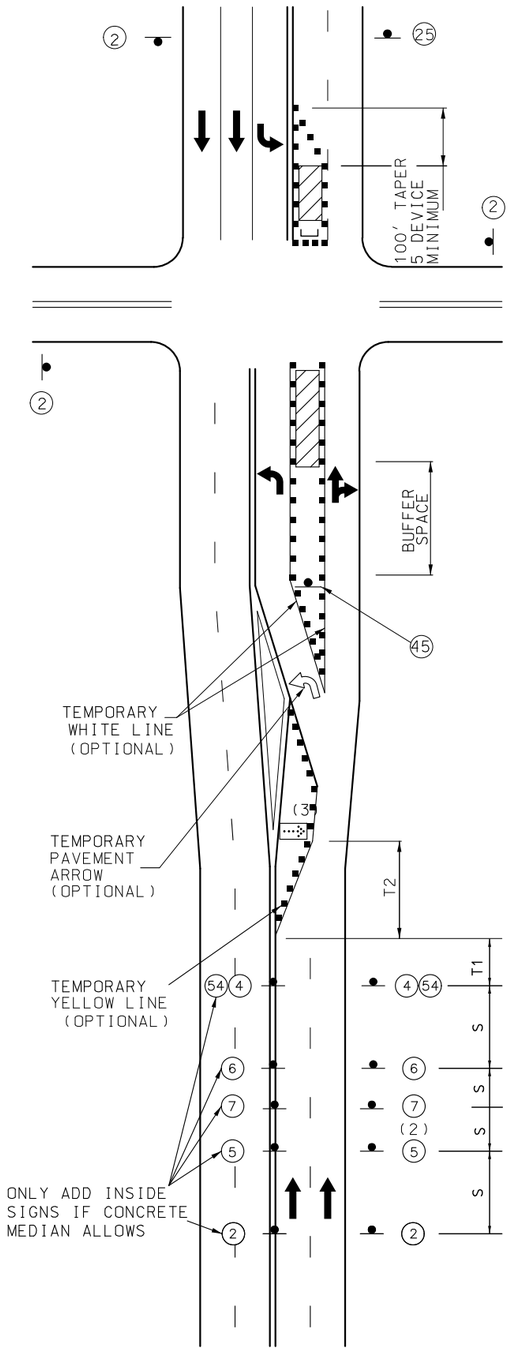
DATE PREPARED	
8/5/2021	
ROUTE	STATE
744/160	MO
DISTRICT	SHEET NO.
SW	26
COUNTY	
GREENE	
JOB NO.	
J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

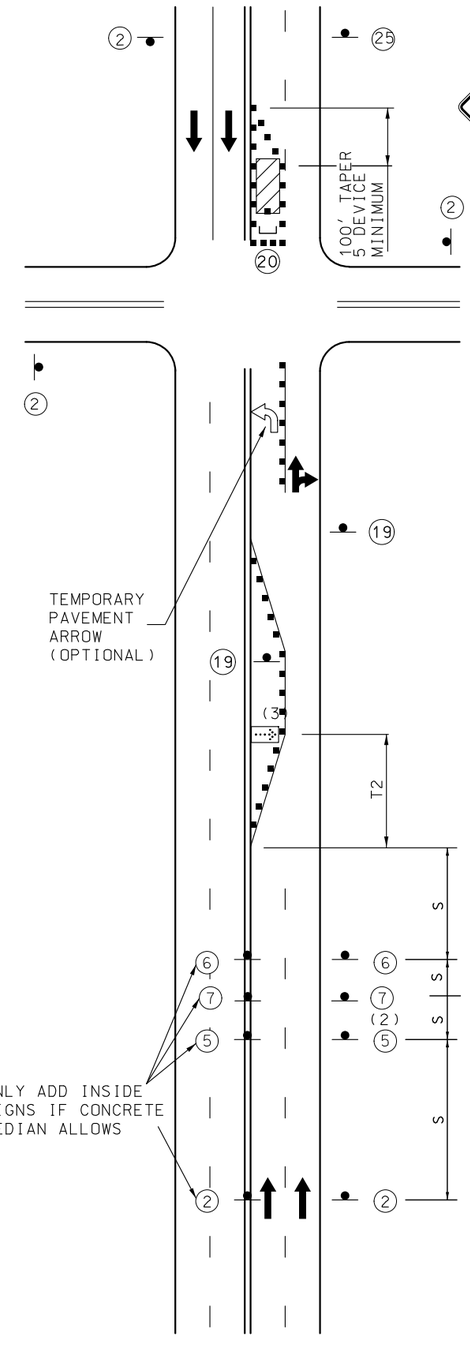
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

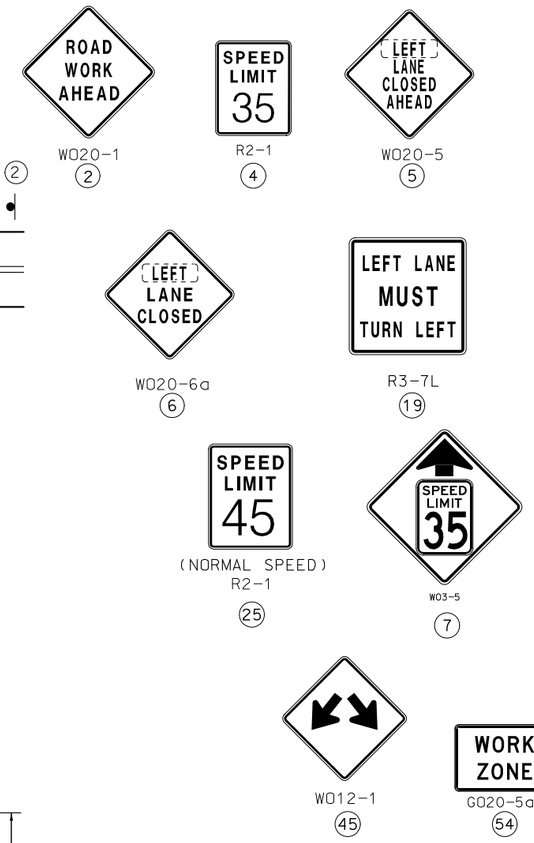
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.



WORK ON NEAR
OR FAR SIDE



WORK FAR SIDE ONLY



NOTES:

FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING, TIMING, INDICATIONS OR DETECTOR SETTINGS.

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

FOR SHORT TERM OPERATIONS, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, A 10' DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKING. ALL OTHER SPACINGS ARE ONE HALF OF THE SPACING SHOWN IN TABLE.

(1) CONES ALLOWABLE FOR DAYLIGHT OPERATIONS ONLY.

(2) SIGN (5) MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR THE FULL SIGN SERIES.

(3) THE FLASHING ARROW BOARD SHOULD BE LOCATED AT THE BEGINNING OF THE MERGING TAPER WHEN MEDIAN WIDTH ALLOWS ROOM.

TYPE 3 MOVEABLE BARRICADE

CHANNELIZERS (1)

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES					
SPEED	TAPER LENGTH (FT)		OPTIONAL	CHANNELIZER SPACING (FT)	
PERMANENT POSTED (mph)	SHOULDER (T1)	LANE (T2)	BUFFER LENGTH (FT) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	70	245	280	35	40
40-45	150	540	400	40	80
50-55	185	660	560	50	80
60-70	235	840	840	60	120

SIGN SPACING FOR ADVANCE SIGN SERIES SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION. SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.	
SPEED	SIGN SPACING (FT)
PERMANENT POSTED (mph)	DIVIDED (S)
0-35	200
40-45	500
50-55	1000
60-70	SA-1000 SB-1500 SC-2640

SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.

LANE TAPER LENGTH BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.

LEFT LANE CLOSURE AT INTERSECTION - NOT TO SCALE

TRAFFIC CONTROL
SHEET 5 OF 10

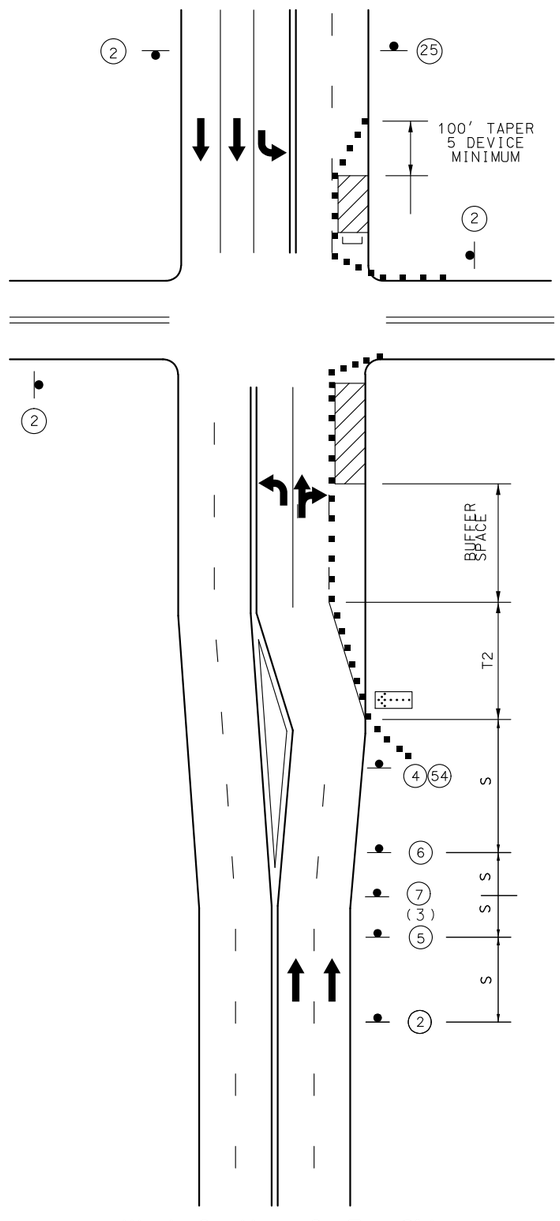
STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/5/2021	
ROUTE 744/160	STATE MO
DISTRICT SW	SHEET NO. 27
COUNTY GREENE	
JOB NO. J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

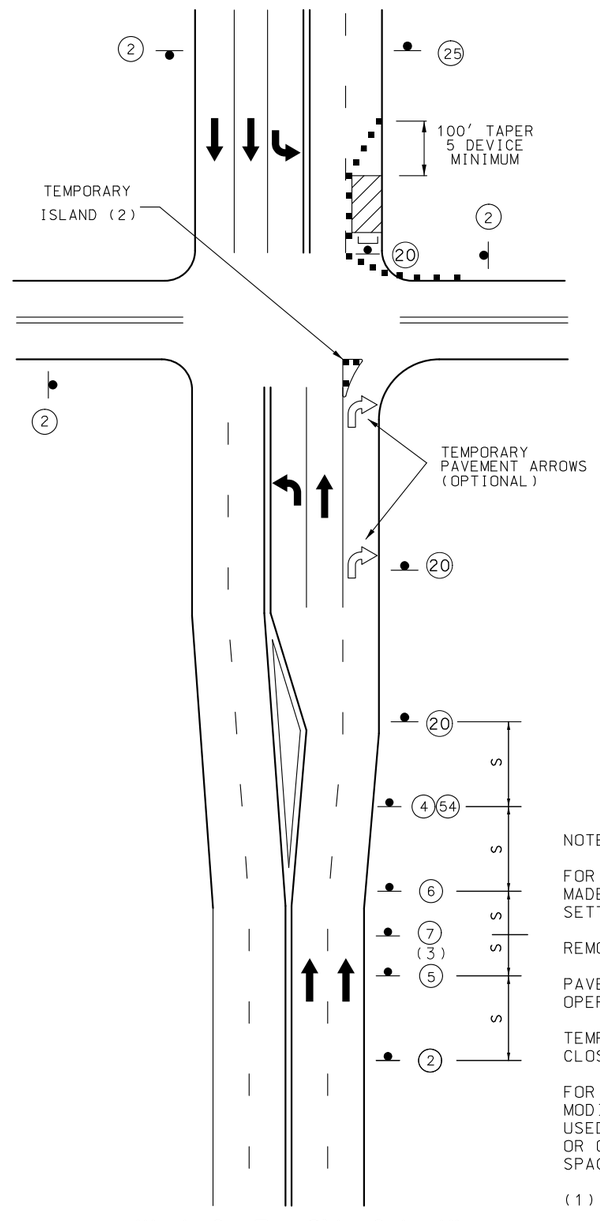
DATE	DESCRIPTION

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

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



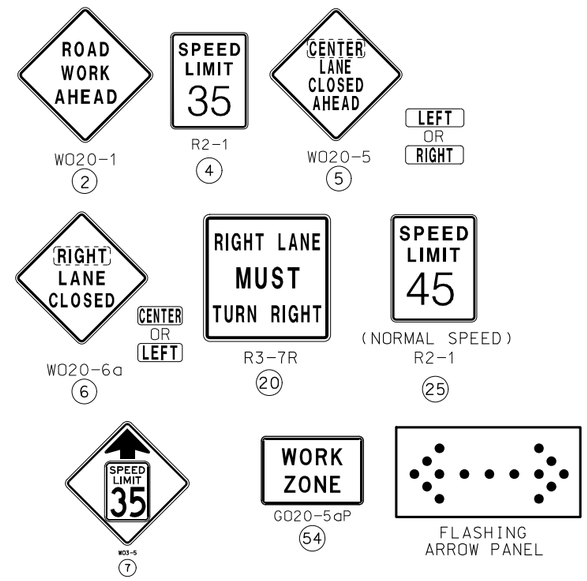
Work On Near Or Far Side



Work On Far Side Only (1)

RIGHT LANE CLOSURE AT INTERSECTION – NOT TO SCALE

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES					
SPEED	TAPER LENGTH (FT)		OPTIONAL	CHANNELIZER SPACING (FT)	
PERMANENT POSTED (mph)	SHOULDER (T1)	LANE (T2)	BUFFER LENGTH (FT) (B)	TAPERS	BUFFER/ WORK AREAS
0–35	70	245	280	35	40
40–45	150	540	400	40	80
50–55	185	660	560	50	80
60–70	235	840	840	60	120



SIGN SPACING FOR ADVANCE SIGN SERIES
SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION.
SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

SPEED	SIGN SPACING (FT)
PERMANENT POSTED (mph)	DIVIDED (S)
0–35	200
40–45	500
50–55	1000
60–70	SA–1000 SB–1500 SC–2640

SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.

LANE TAPER LENGTH BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.

CHANNELIZERS

TYPE 3 MOVEABLE BARRICADE

NOTES:

FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING, TIMING, INDICATIONS OR DETECTOR SETTINGS.

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

FOR SHORT TERM OPERATIONS, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, A 10' [3 m] DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKING. ALL OTHER SPACINGS ARE ONE HALF OF THE SPACING SHOWN IN TABLE.

(1) THIS FIGURE ONLY APPLIES WHERE A SIGNIFICANT PERCENTAGE OF THE APPROACH VOLUME TURNS RIGHT.

(2) TEMPORARY ISLAND MAY BE USED TO EMPHASIZE THE MANDATORY RIGHT TURN MOVEMENT WHERE THERE IS A SUFFICIENT RIGHT TURN RADIUS.

(3) SIGN 5 MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR THE FULL SIGN SERIES.

TRAFFIC CONTROL
SHEET 6 OF 10

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/5/2021

ROUTE	STATE
744/160	MO
DISTRICT	SHEET NO.
SW	28

COUNTY GREENE

JOB NO. J8P3087D

CONTRACT ID.

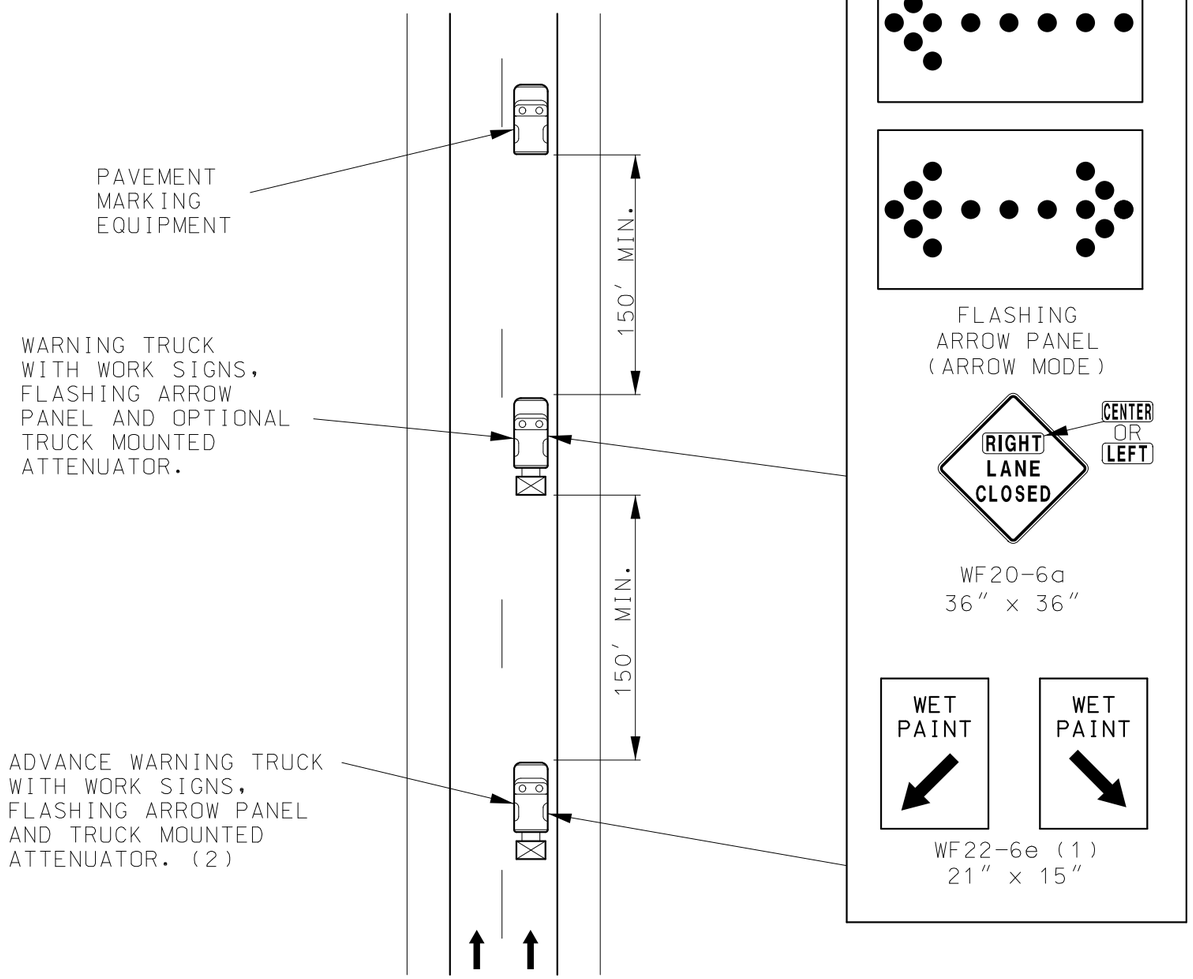
PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

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



Multi-Lane Divided Highway

NOTES:

ALL SIGNS HAVE TYPE 3 FLUORESCENT ORANGE RETROREFLECTIVE SHEETING.

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

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

PROTECTIVE TRUCK AND WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

FLASHING ARROW PANELS SHALL, AS A MINIMUM, BE TYPE B, WITH A SIZE OF 60 X 30 INCHES.

THE STRIPING OPERATION SHALL BE COMPLETED UNDER A LANE CLOSURE.

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/5/2021	
ROUTE	STATE
744/160	MO
DISTRICT	SHEET NO.
SW	29
COUNTY	
GREENE	
JOB NO.	
J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

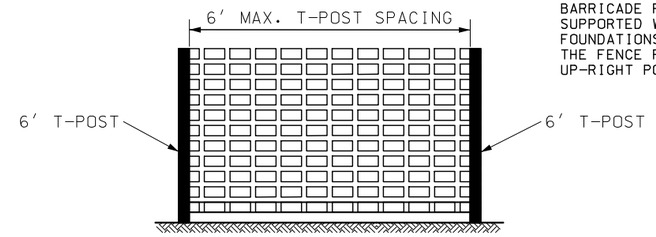
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REVISED: 11-19-2018

NOTES:

1. NO DIRECT PAYMENT WILL BE MADE FOR ORANGE SAFETY FENCE AS REQUIRED AROUND EXCAVATION OF SIDEWALK & CURB RAMP AREAS.
2. SEE JSP's FOR PEDESTRIAN TRAFFIC DEVICES.
3. WORKING AREAS SHALL BE GUARDED FROM PEDESTRIAN ACCESS BY BARRICADE FENCING 36" TO 48" IN HEIGHT WITH A GAP NO GREATER THAN 6" FROM THE GROUND AND HOLES NO GREATER THAN 4" IN ANY DIRECTION.
4. PEDESTRIAN ACCESS ON SIDEWALK SHALL BE PROVIDED WITH A WIDTH NOT LESS THAN 4' OF SMOOTH STABLE SURFACING ADJACENT TO BARRICADE FENCING FOR ACCESS TO THE MAIN BUILDING.
5. SIDEWALK RAMP CLOSURES FOR RECONSTRUCTION SHALL BE PERFORMED WITH ADA COMPLIANT MOVEABLE BARRICADES. TWO BARRICADES PER PEDESTRIAN APPROACH. ONE SIDEWALK CLOSED SIGN WILL BE PLACED UPON ONE BARRICADE FOR EACH APPROACH, NO MORE THAN ONE 5' SECTION OF SIDEWALK RAMP SHALL BE CLOSED LEADING TO THE MAIN BUILDING AT ANY TIME ADJACENT TO THE WORK AREA.

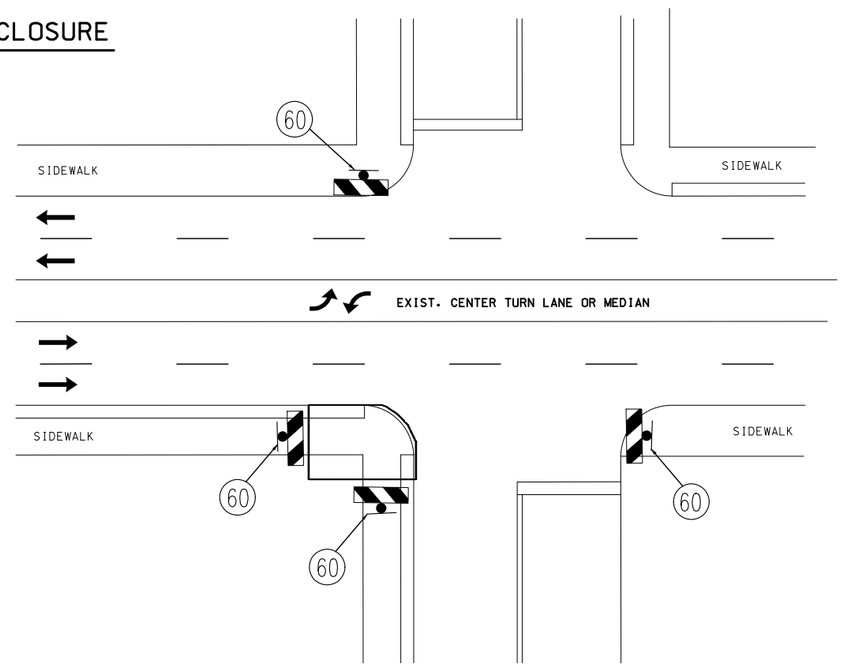
ORANGE PLASTIC SAFETY FENCE



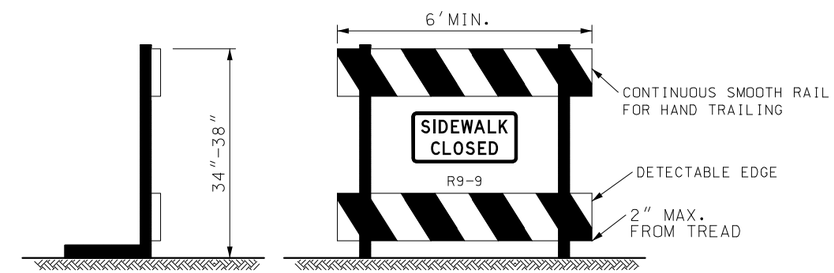
NO DIRECT PAY.
PLASTIC SAFETY NETTING USED FOR BARRICADE FENCING SHALL BE SUPPORTED WITH T-POST, ADEQUATE FOUNDATIONS, AND BALLAST SO THAT THE FENCE REMAINS TAUT AND IN AN UP-RIGHT POSITION.

MULTI-LANE TYPICAL SIDEWALK CLOSURE

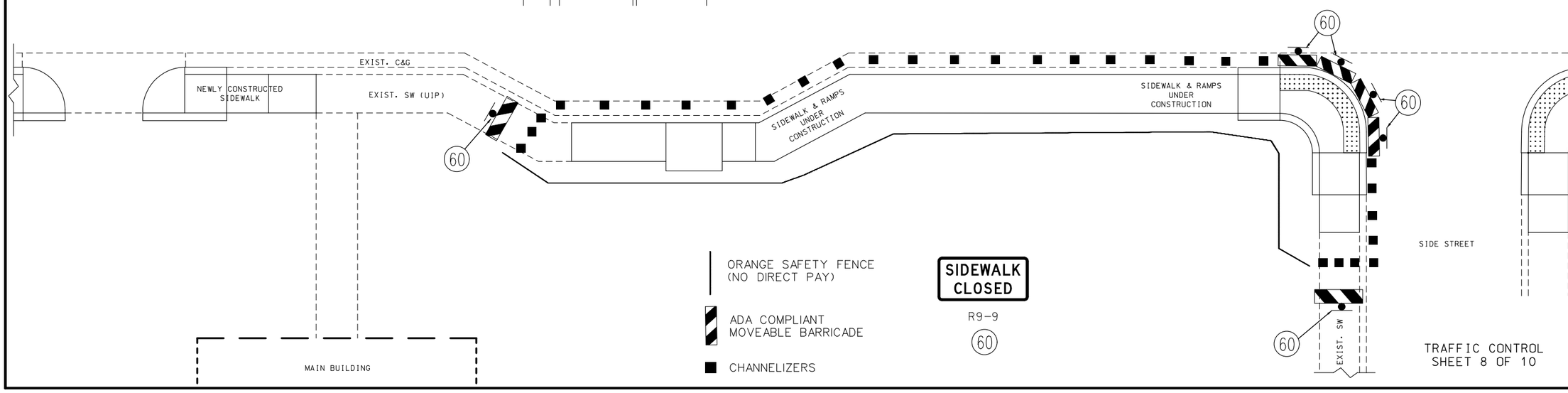
NOT TO SCALE



ADA COMPLIANT MOVEABLE BARRICADE



1. WARNING LIGHTS SHALL NOT BE ATTACHED TO ADA COMPLIANT BARRICADES.
2. CHEVRON RAILS ON THE ADA COMPLIANT BARRICADES MUST BE 8" WIDE MIN. AND MEET TYPE 3 RETRO-REFLECTIVE SHEETING AND COLOR CONTRAST BARRICADE RAILS AS SHOWN. THE TOP RAIL MUST PROVIDE A SMOOTH CONTINUOUS RAIL SURFACE SUITABLE FOR HAND TRAILING WITH NO SPLINTERS, BURRS, OR SHARP EDGES. A MINIMUM OF TWO 8" WIDE RAILS IS REQUIRED.
3. NO TRIPPING HAZARDS FROM THE BARRICADES ARE ALLOWED WITHIN THE PEDESTRIAN SPACE. THIS MEANS NO FEET OR BARS USED TO HOLD THE RAILS OR SUPPORT THE DEVICE ARE ALLOWED WITHIN THE WALKWAY. ALL FEET AND BALLASTS WILL NEED TO BE BEHIND THE DEVICE.
4. THE BARRICADE MUST BE THE FULL WIDTH OF THE CLOSED SIDEWALK.



TRAFFIC CONTROL
SHEET 8 OF 10

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	8/5/2021
ROUTE	744/160
STATE	MO
DISTRICT	SW
SHEET NO.	30
COUNTY	GREENE
JOB NO.	J8P3087D
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

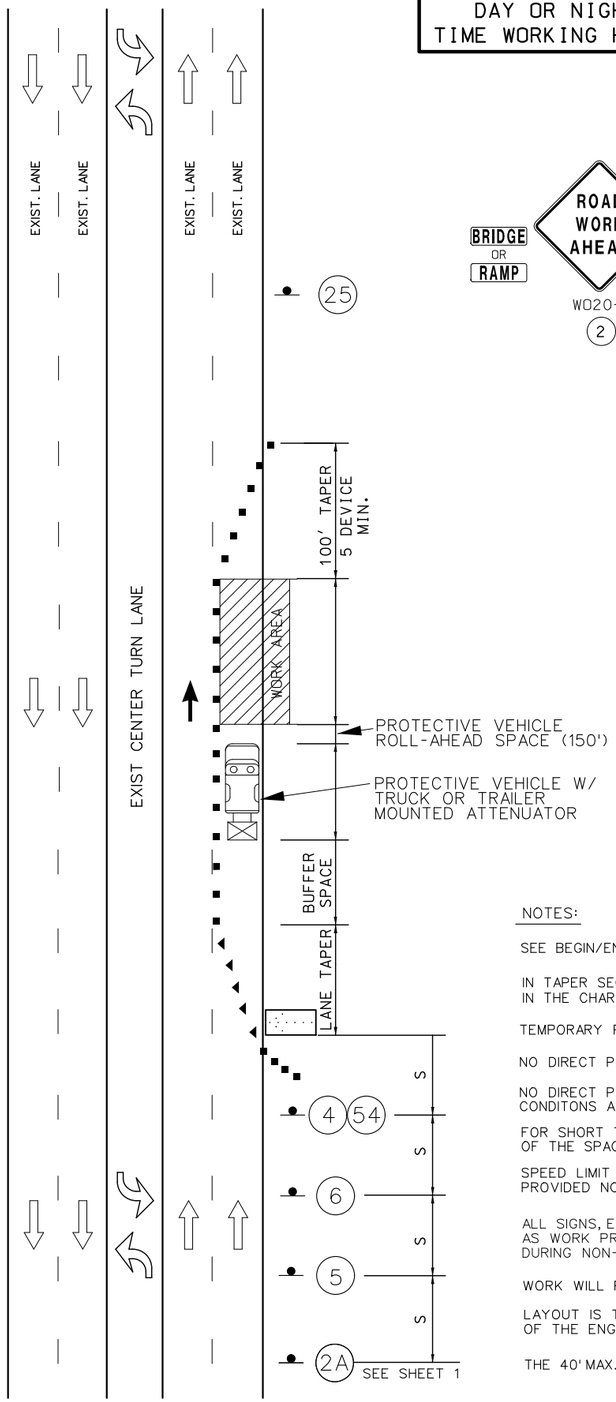
DESCRIPTION | DATE

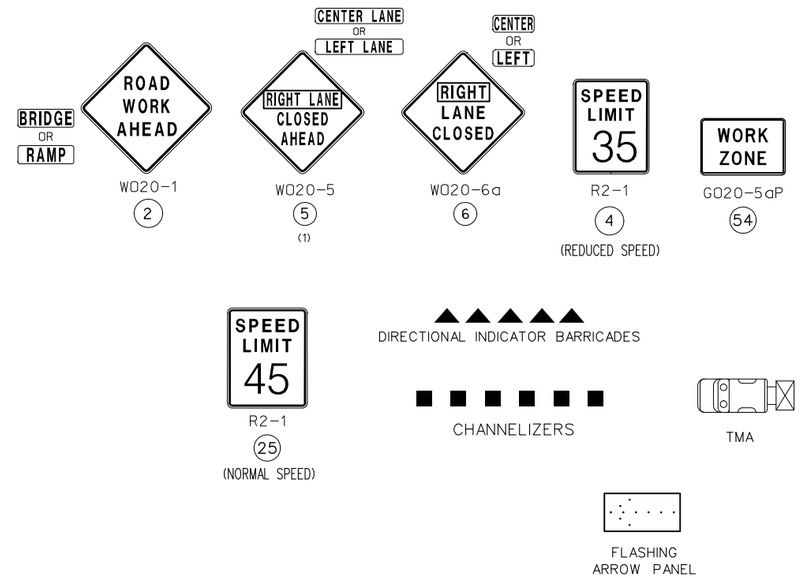
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

SIGNING REFLECTS
DAY OR NIGHT
TIME WORKING HOURS

EFFECTIVE: 06-08-2016
REVISED (ADA): 01-04-2017





MULTI-LANE
OUTSIDE LANE CLOSURE - DAY OR NIGHT

NOT TO SCALE

NOTES:

SEE BEGIN/END OF PROJECT SIGNING SHEET FOR ADDITIONAL SIGNS.

IN TAPER SECTIONS: QUANTITY OF TRIMLINE CHANNELIZERS IS DOUBLED WHEN COMPARED TO MAX. CHANNELIZER SPACING IN THE CHART.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES (NO DIRECT PAY)

NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, CONST. SIGNS, OR FLASHING ARROW PANEL.

NO DIRECT PAYMENT WILL BE MADE FOR TEMPORARY STOP OR YIELD SIGNS AS NEEDED TO MAINTAIN EXISTING STOP/YIELD CONDITONS AS APPROVED BY THE ENGINEER.

FOR SHORT TERM OPERATIONS WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, DEVICE SPACING ARE ONE-HALF OF THE SPACING SHOWN IN TABLE.

SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT 1/2 MILE.

ALL SIGNS, EXCEPT "RATE OUR WORK ZONE" SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS.

WORK WILL REQUIRE LANE CLOSURES UNLESS OTHERWISE APPROVED BY ENGINEER.

LAYOUT IS TYPICAL FOR EITHER DIRECTION. ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER. SEE STANDARD DRAWING 616.10 FOR ADDITIONAL DETAILS.

THE 40' MAX. CHANNELIZER SPACING WITHIN THE WORK ZONE AREA MAY BE REDUCED BASED ON CONSTRUCTION CONDITIONS.

(1) SIGN (5) MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR THE FULL SIGN SERIES.

TAPER LENGTHS AND SPACING FOR CHANNELIZERS

PERMANENT POSTED SPEED MPH	MINIMUM LANE TAPER LENGTH 10'	11'	12'	MINIMUM SHOULDER TAPER LENGTH BASED ON 10' SHOULDER	BUFFER LENGTH FT.	MAXIMUM CHANNELIZER SPACING THROUGH TAPER	THROUGH WORK AREA
0-35	205'	225'	245'	70'	280'	35'	40'
40-45	450'	495'	540'	150'	400'	40'	80'
50-55	550'	605'	660'	185'	560'	50'	80'
60-70	700'	770'	840'	235'	840'	60'	120'

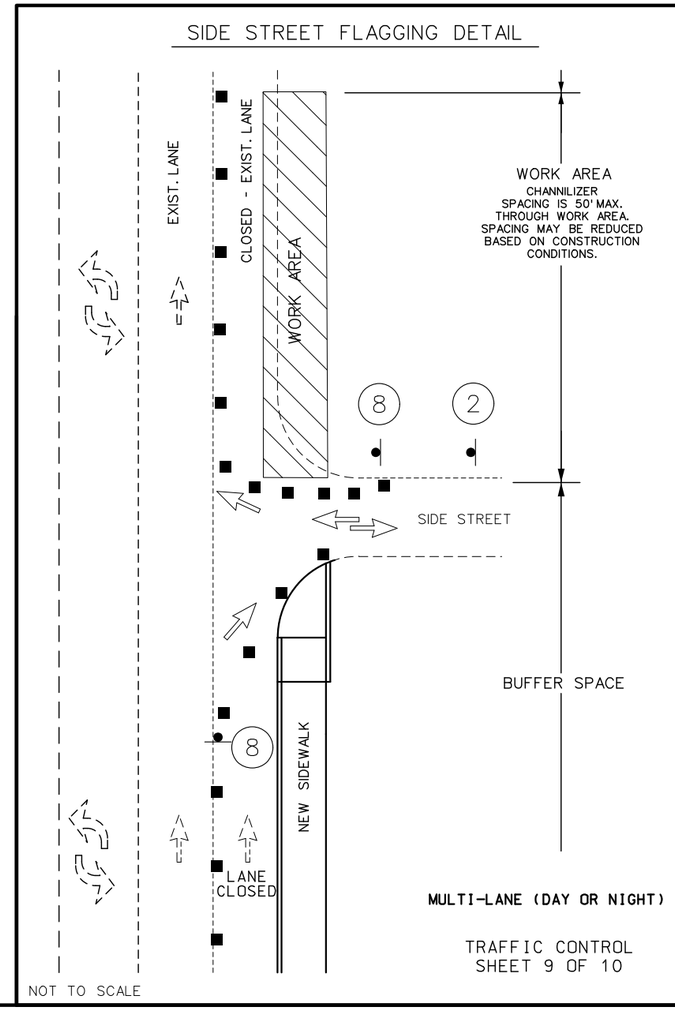
SIGN SPACING FOR ADVANCE SIGN SERIES (1) (2)

PERMANENT POSTED SPEED MPH	UNDIVIDED HIGHWAYS	DIVIDED HIGHWAYS
0-35	200'	200'
40-45	350'	500'
50-55	500'	1000'
60-70	1000'	SA - 1000' SB - 1500' SC - 2640'

NOTES:

(1) SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OF SIGNED CONDITION.

(2) SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.



NOT TO SCALE

MULTI-LANE (DAY OR NIGHT)

TRAFFIC CONTROL
SHEET 9 OF 10

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/5/2021

ROUTE	STATE
744/160	MO
DISTRICT	SHEET NO.
SW	31

COUNTY
GREENE

JOB NO.
J8P3087D

CONTRACT ID.

PROJECT NO.

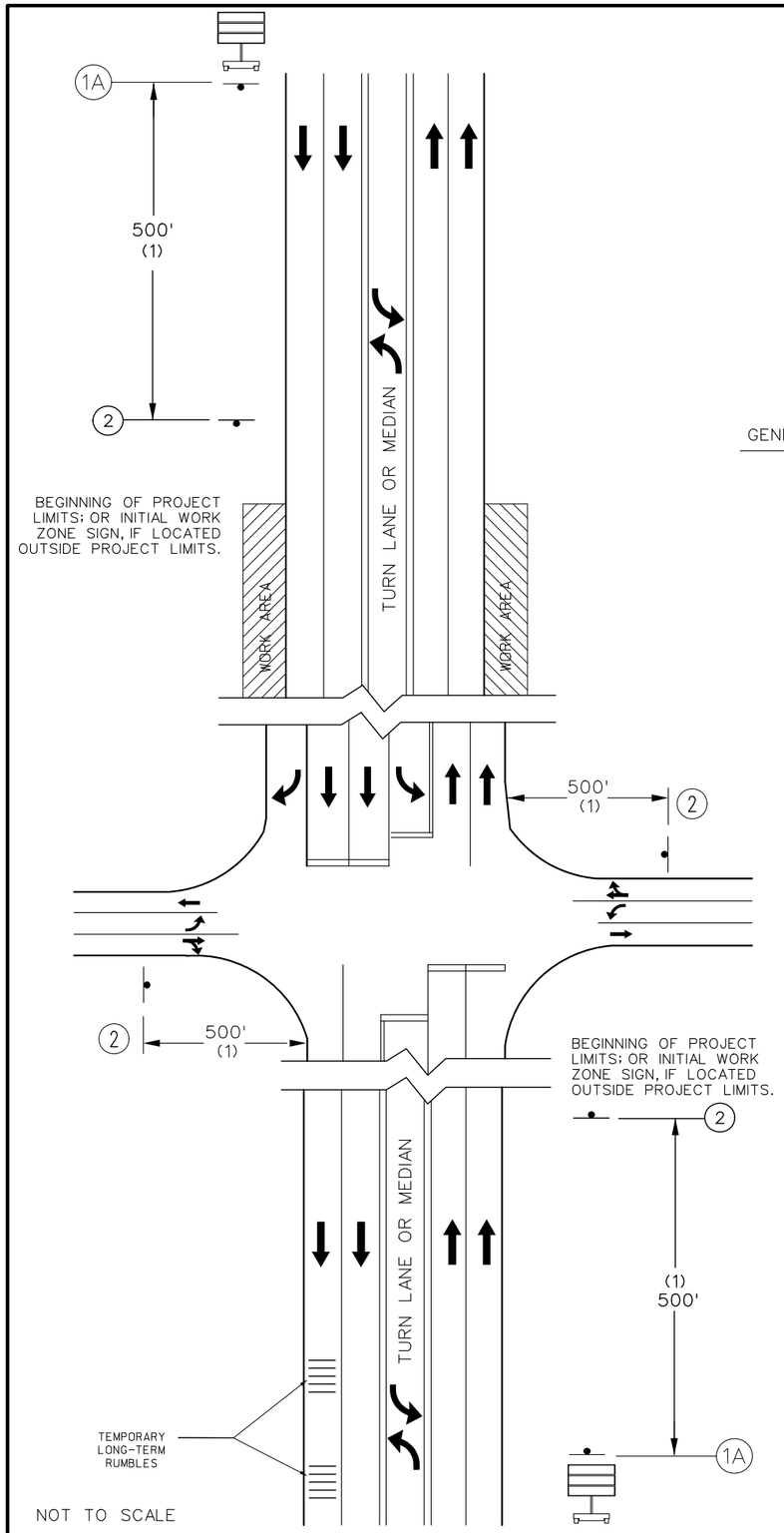
BRIDGE NO.

DATE	DESCRIPTION

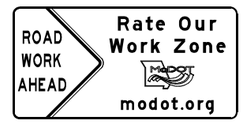
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

EFFECTIVE: 06-08-2016
REVISED (ADA): 01-04-2017

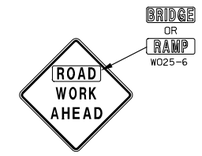


NOT TO SCALE



CONST-7-48

(2) 1A



W020-1

2

SIGN SPACING FOR ADVANCE SIGN SERIES

SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION.

SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

SPEED MPH (S)	NON-DIVIDED HIGHWAYS	DIVIDED HIGHWAYS
0-35	200 FT	200 FT
40-45	350 FT	500 FT
50-55	500 FT	1000 FT
60-70	1000 FT	1000 FT

GENERAL NOTES:

1. ANY EXISTING SIGNING THAT CONFLICTS WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.
2. ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER.
3. SEE STANDARD DRAWING 616.10 AND 620.10 FOR ADDITIONAL DETAILS, AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS.
4. SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT 1/2 MILE.
5. TEMPORARY SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED WHEN THE CONDITIONS REQUIRING REDUCED SPEEDS DO NOT EXIST.
6. NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, CONST. SIGNS OR FLASHING ARROW PANEL.
7. NO DIRECT PAYMENT WILL BE MADE FOR TEMPORARY STOP OR YIELD SIGNS AS NEEDED TO MAINTAIN EXISTING STOP/YIELD CONDITIONS AS APPROVED BY THE ENGINEER.
8. ALL SIGNS, EXCEPT "RATE OUR WORK ZONE" SIGN, SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING PROPER TRAFFIC CONTROL SETUPS THROUGHOUT CONSTRUCTION AS DESCRIBED IN THESE PLANS OR AS APPROVED BY THE ENGINEER. ALL TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
10. WHERE MINIMUM LANE WIDTHS CANNOT BE ACHIEVED ON THE SIDE STREETS, THE CONTRACTOR SHALL CLOSE HALF OF THE APPROACH AND POSITION A FLAGGER AT EACH END OF THE WORK AREA. LOCATION TO BE DETERMINED BY THE ENGINEER. ADVANCE FLAGGER SIGNING SHALL BE INSTALLED AS OUTLINED IN THE MUTCD.
11. THE CONTRACTOR SHALL MAINTAIN PUBLIC ACCESS TO ALL BUSINESSES AND STREETS. NO STREET OR ENTRANCE SHALL BE COMPLETELY BLOCKED.
12. ALL PEDESTRIAN TRAFFIC CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THE CURB RAMP & SIDEWALK IS OPENED FOR PEDESTRIAN TRAVEL.
13. PEDESTRIAN TRAFFIC CONTROL SIGNS MAY BE MOUNTED ON PORTABLE MOUNTS AT 1 FT. PROVIDED THEY DO NOT INTERFERE WITH PEDESTRIAN MOVEMENT OR BE OBSTRUCTED BY PARKING. OTHERWISE, SIGNS SHALL BE MOUNTED AT 7 FT.
14. SPACING & DISTANCES OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD & APPROVED BY THE ENGINEER.

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

(2) THE "RATE OUR WORK ZONE" SIGN IS PLACED 500 FEET BEFORE THE BEGINNING OF PROJECT LIMITS, THE ROAD WORK AHEAD SIGN OR ROAD WORK NEXT XX MILES SIGN. IF USED, THIS SIGN WILL BE OUTSIDE OF THE PROJECT LIMITS.

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

BEGIN/END OF PROJECT SIGNING

MULTI-LANE

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/5/2021

ROUTE	STATE
744/160	MO
DISTRICT	SHEET NO.
SW	32

COUNTY: GREENE
JOB NO.: J8P3087D
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

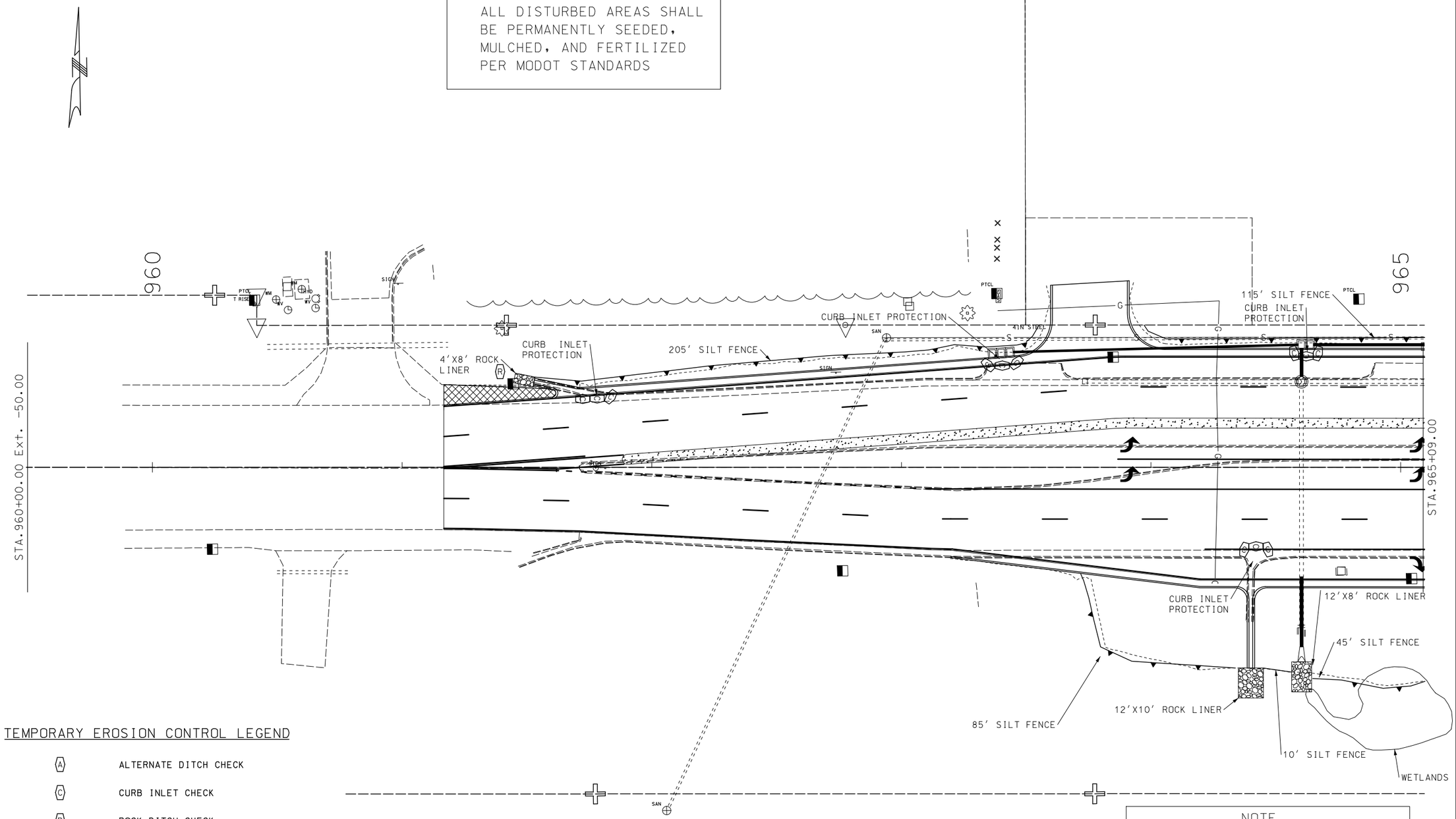
DESCRIPTION	DATE

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

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

NOTE

ALL DISTURBED AREAS SHALL BE PERMANENTLY SEEDED, MULCHED, AND FERTILIZED PER MODOT STANDARDS



TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
- SILT FENCE

SCALE

0 20 40 60

NOTE

MINIMIZED CONSTRUCTION DAMAGE TO EXISTING WETLANDS AREA

EROSION CONTROL
SHEET 1 OF 5

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	8/8/2021
ROUTE	MO744
STATE	MO
DISTRICT	SW
SHEET NO.	33
COUNTY	GREENE
JOB NO.	J8P3087D
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

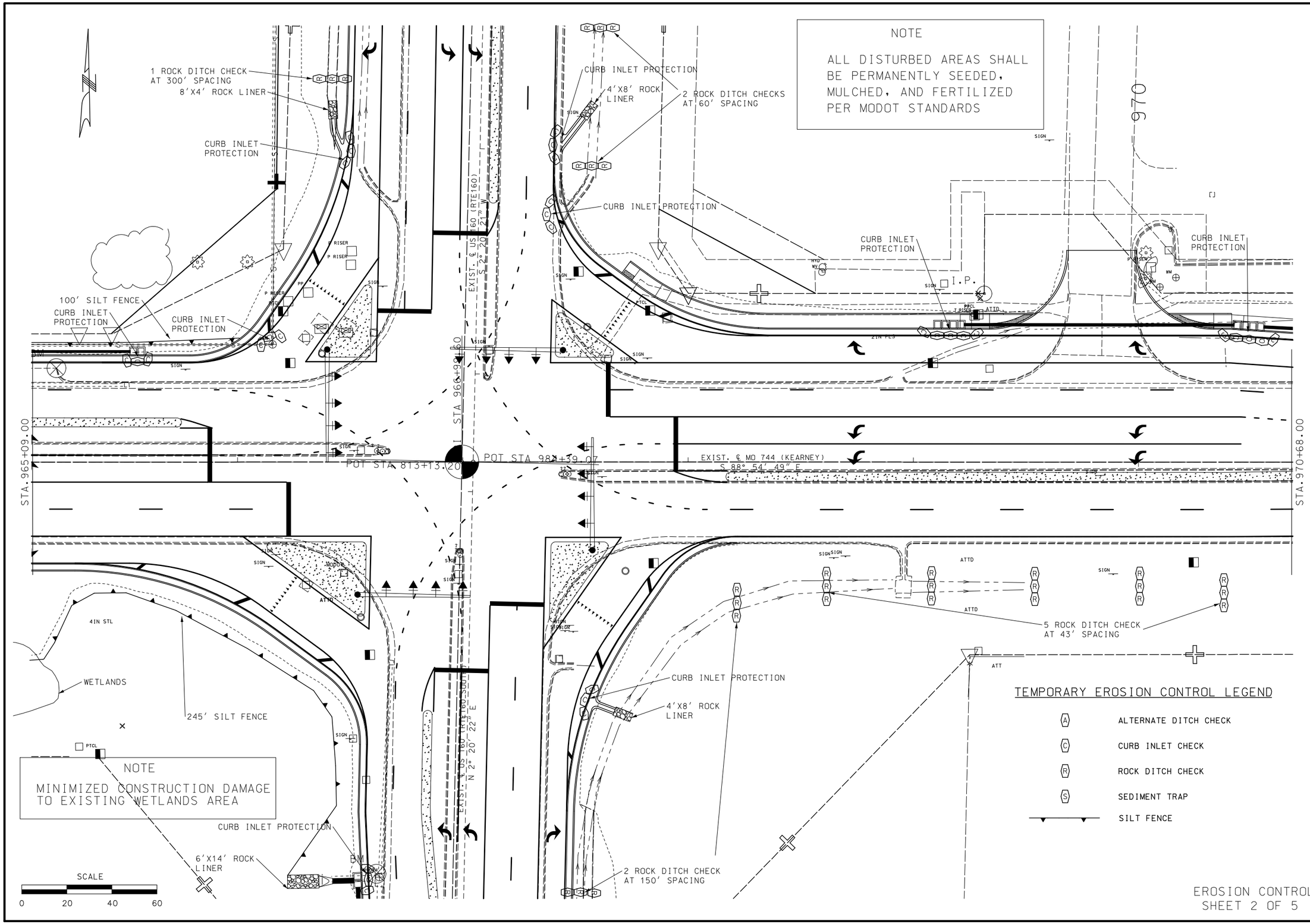
DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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



TEMPORARY EROSION CONTROL LEGEND

A	ALTERNATE DITCH CHECK
C	CURB INLET CHECK
R	ROCK DITCH CHECK
S	SEDIMENT TRAP
	SILT FENCE

EROSION CONTROL
SHEET 2 OF 5

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/8/2021	
ROUTE MO744	STATE MO
DISTRICT SW	SHEET NO. 34
COUNTY GREENE	
JOB NO. J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

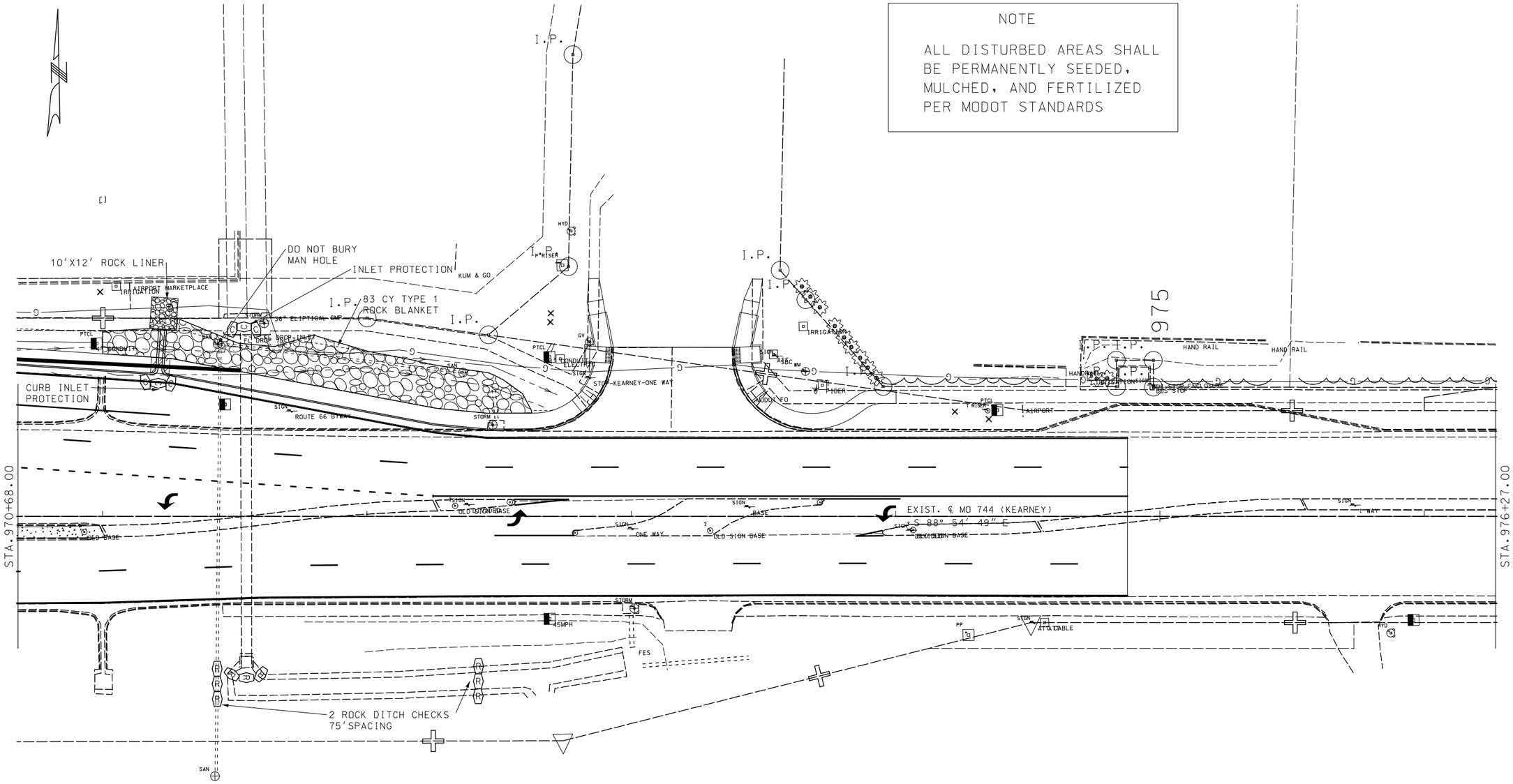
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

NOTE

ALL DISTURBED AREAS SHALL BE PERMANENTLY SEEDED, MULCHED, AND FERTILIZED PER MODOT STANDARDS



PERMANENT EROSION CONTROL LEGEND

TYPE 1 ROCK BLANKET

TEMPORARY EROSION CONTROL LEGEND

- (A) ALTERNATE DITCH CHECK
- (C) CURB INLET CHECK
- (R) ROCK DITCH CHECK
- (S) SEDIMENT TRAP
- SILT FENCE

SCALE 0 10 20 30

EROSION CONTROL
SHEET 3 OF 5

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/8/2021	
ROUTE	STATE
MO744	MO
DISTRICT	SHEET NO.
SW	35
COUNTY	
GREENE	
JOB NO.	
J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

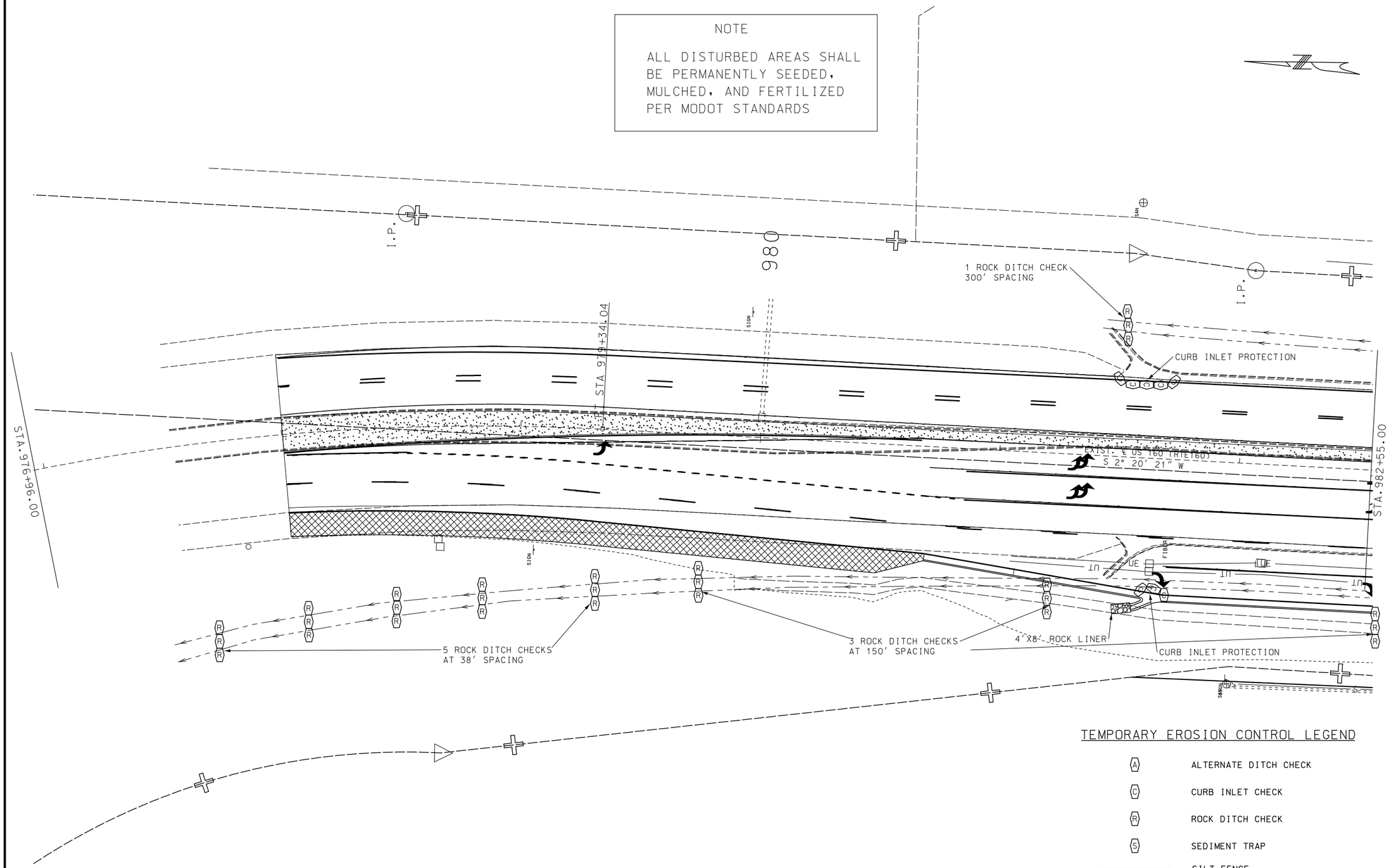
DATE	DESCRIPTION

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

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

NOTE

ALL DISTURBED AREAS SHALL BE PERMANENTLY SEEDED, MULCHED, AND FERTILIZED PER MODOT STANDARDS



TEMPORARY EROSION CONTROL LEGEND

- A — ALTERNATE DITCH CHECK
- C — CURB INLET CHECK
- R — ROCK DITCH CHECK
- S — SEDIMENT TRAP
- SILT FENCE

SCALE

0 20 40 60

EROSION CONTROL
SHEET 4 OF 5

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/8/2021	
ROUTE	STATE
MO744	MO
DISTRICT	SHEET NO.
SW	36
COUNTY	
GREENE	
JOB NO.	
J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

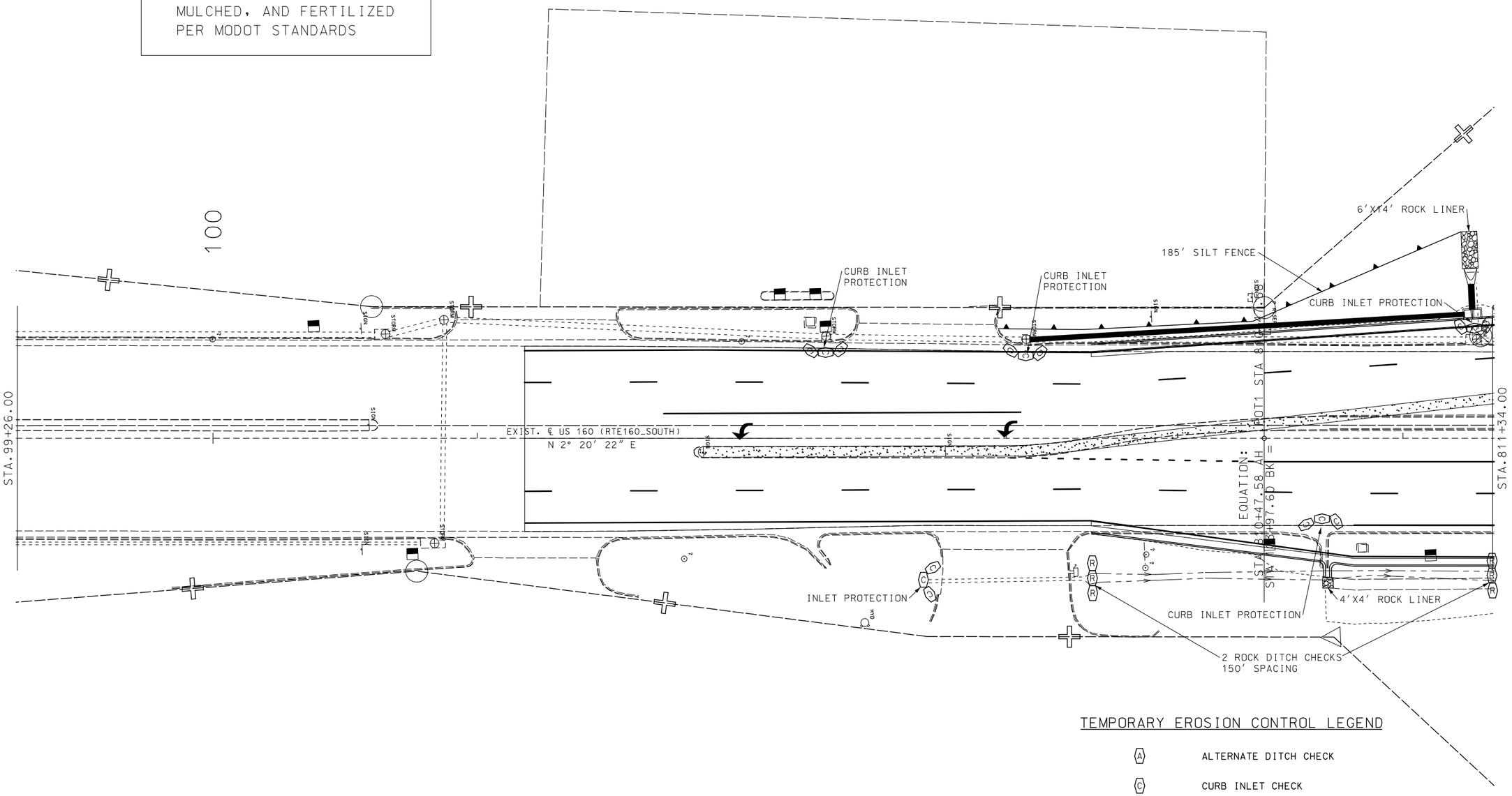
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

NOTE

ALL DISTURBED AREAS SHALL BE PERMANENTLY SEEDED, MULCHED, AND FERTILIZED PER MODOT STANDARDS



TEMPORARY EROSION CONTROL LEGEND

(A)	ALTERNATE DITCH CHECK
(C)	CURB INLET CHECK
(R)	ROCK DITCH CHECK
(S)	SEDIMENT TRAP
▼——▼	SILT FENCE

SCALE

0 20 40 60

EROSION CONTROL
SHEET 5 OF 5

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	8/8/2021
ROUTE	MO744
STATE	MO
DISTRICT	SW
SHEET NO.	37
COUNTY	GREENE
JOB NO.	J8P3087D
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

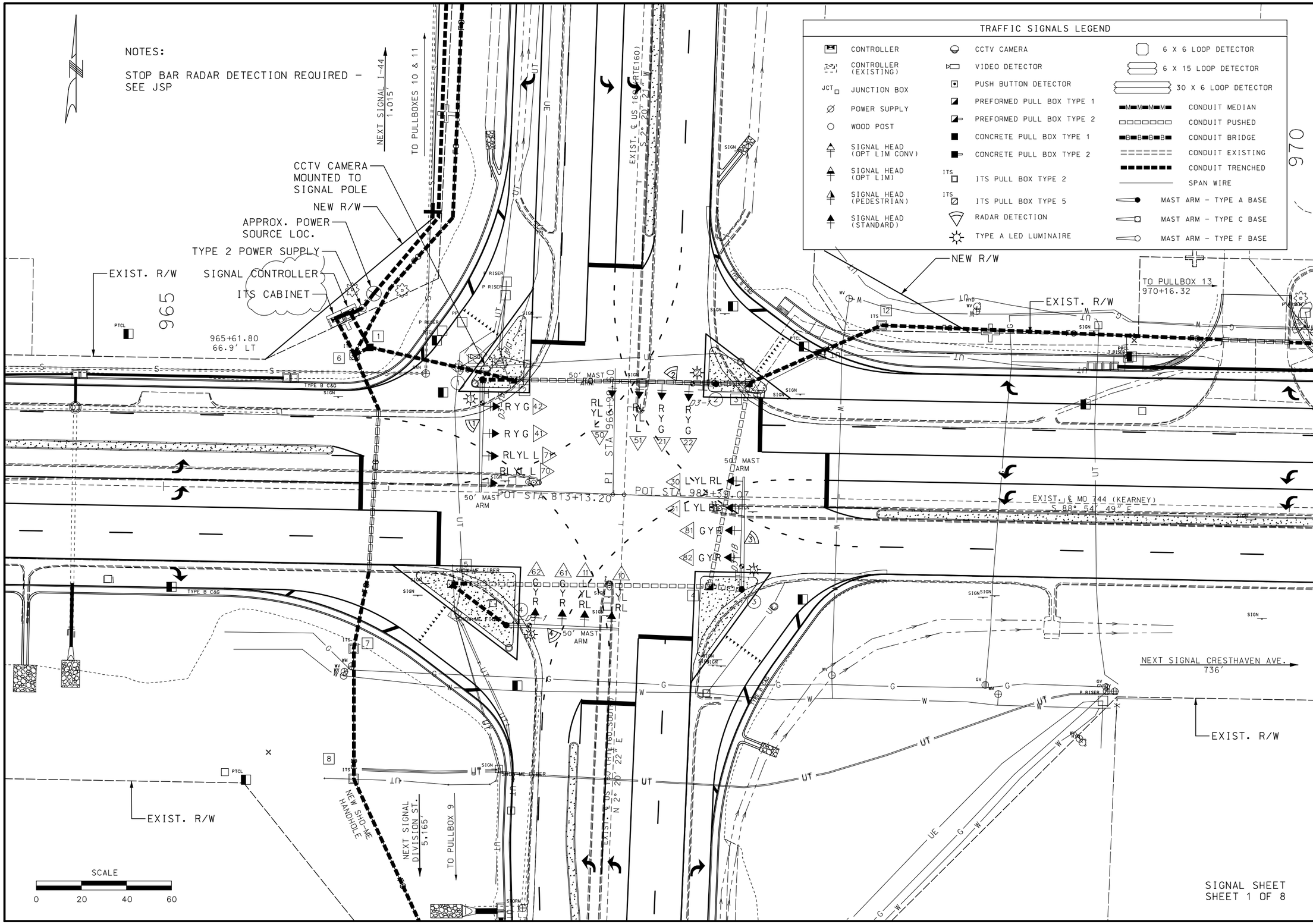
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

NOTES:

STOP BAR RADAR DETECTION REQUIRED - SEE JSP

TRAFFIC SIGNALS LEGEND

CONTROLLER	CCTV CAMERA	6 X 6 LOOP DETECTOR
CONTROLLER (EXISTING)	VIDEO DETECTOR	6 X 15 LOOP DETECTOR
JUNCTION BOX	PUSH BUTTON DETECTOR	30 X 6 LOOP DETECTOR
POWER SUPPLY	PREFORMED PULL BOX TYPE 1	CONDUIT MEDIAN
WOOD POST	PREFORMED PULL BOX TYPE 2	CONDUIT PUSHED
SIGNAL HEAD (OPT LIM CONV)	CONCRETE PULL BOX TYPE 1	CONDUIT BRIDGE
SIGNAL HEAD (OPT LIM)	CONCRETE PULL BOX TYPE 2	CONDUIT EXISTING
SIGNAL HEAD (PEDESTRIAN)	ITS PULL BOX TYPE 2	CONDUIT TRENCHED
SIGNAL HEAD (STANDARD)	ITS PULL BOX TYPE 5	SPAN WIRE
	RADAR DETECTION	MAST ARM - TYPE A BASE
	TYPE A LED LUMINAIRE	MAST ARM - TYPE C BASE
		MAST ARM - TYPE F BASE



SIGNAL SHEET
SHEET 1 OF 8

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

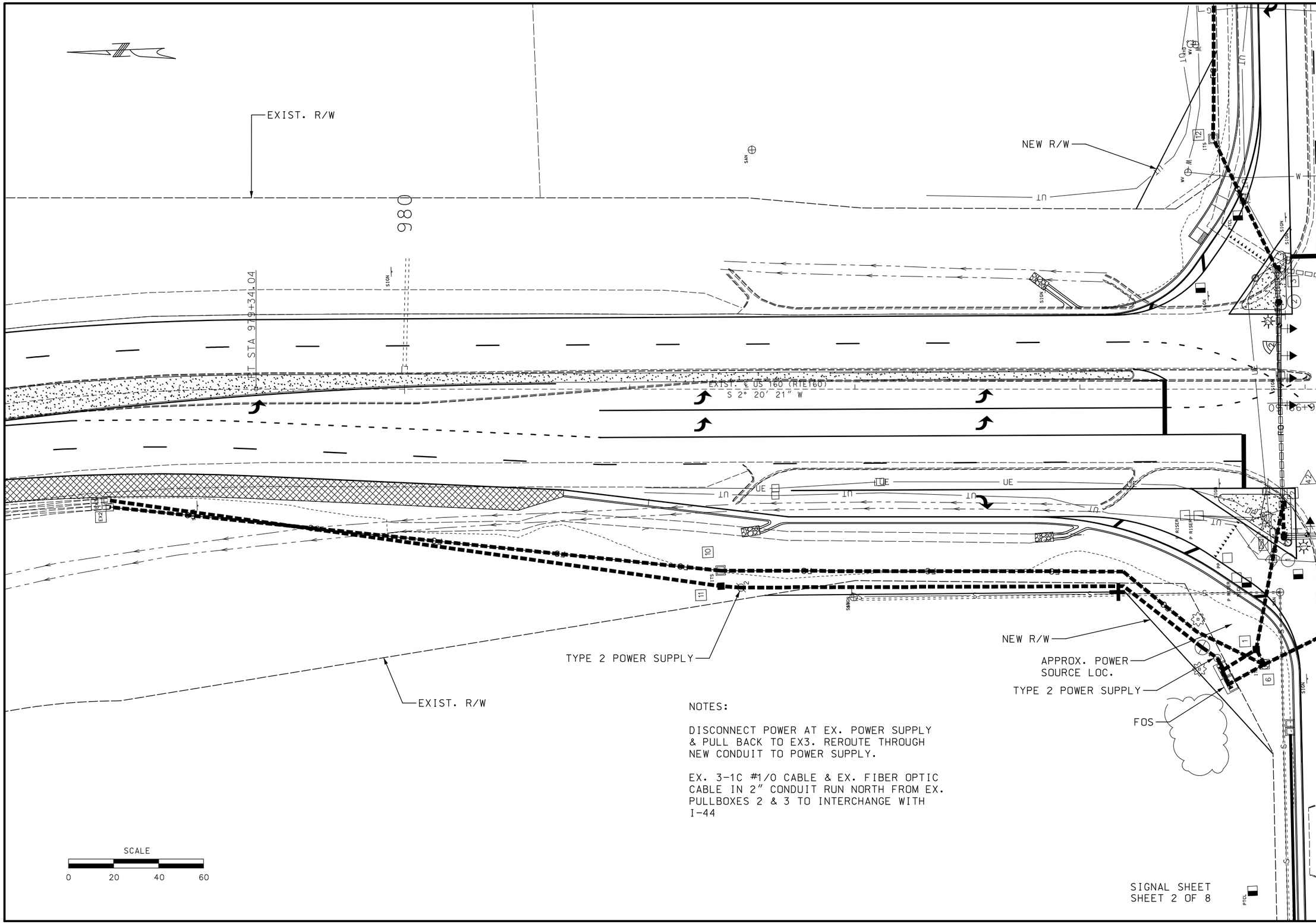
DATE PREPARED	8/26/2021
ROUTE	744/160
STATE	MO
DISTRICT	SW
SHEET NO.	38
COUNTY	GREENE
JOB NO.	J8P3087D
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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



NOTES:

DISCONNECT POWER AT EX. POWER SUPPLY & PULL BACK TO EX3. REROUTE THROUGH NEW CONDUIT TO POWER SUPPLY.

EX. 3-1C #1/0 CABLE & EX. FIBER OPTIC CABLE IN 2" CONDUIT RUN NORTH FROM EX. PULLBOXES 2 & 3 TO INTERCHANGE WITH I-44

SIGNAL SHEET
SHEET 2 OF 8

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2021	
ROUTE 744/160	STATE MO
DISTRICT SW	SHEET NO. 39
COUNTY GREENE	
JOB NO. J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

EFFECTIVE: 07/01/2018

LOCATION / BASE

POST NUMBER	PULL BOX NUMBER	APPROACH	STATION	OFFSET	BASE A 9	A 9.5	A 10	A 10.5	A 11	A 12	F 9	F 9.5	F 10	F 10.5	F 11	F 12	C	CONCRETE** (CU. YDS.)
		NW QUAD	CONTROLLER	(AS REQ'D)														
		FOS																
(1)		MO 744	966+40.71	50.0' LT				1										3.27
(2)		US 160	983+88.31	38.8' LT				1										3.27
(3)		MO 744	967+57.57	41.2' RT				1										3.27
(4)		US 160	812+53.19	50.0' LT				1										3.27
	[1]	MO 744	965+90.43	63.4' LT														
	[2]	MO 744	966+54.53	50.1' LT														
	[3]	MO 744	967+59.02	50.5' LT														
	[4]	MO 744	967+43.24	40.0' RT														
	[5]	MO 744	966+28.51	41.1' RT														
	[6]	MO 744	965+83.79	59.8' LT														
	[7]	MO 744	965+85.75	70.6' RT														
	[8]	US 160 S	811+82.06	114.7' LT														
	[9]	US 160 S	103+01.00	45.1' LT														
	[10]	US 160 N	981+40.19	80.6' RT														
	[11]	US 160 N	981+40.56	87.5' RT														
	[12]	MO 744	968+17.47	77.4' LT														
	[13]	MO 744	970+16.32	72.8' LT														
	[EX1]	US 160 S	102+25.97	44.2' LT														
	[EX2]	US 160 N	978+65.28	50.0' RT														
	[EX3]	US 160 N	978+64.57	46.9' RT														
				SUBTOTAL														13.08
				TOTAL														13.1

* PULL BOX TO BE INSTALLED BY SHO-ME TECH

PULL BOX

PULL BOX NUMBER	PREFORMED CLASS 1	PREFORMED CLASS 2	PREFORMED CLASS 3	PREFORMED CLASS 5	CONCRETE STANDARD	CONCRETE DOUBLE, TYPE A	CONCRETE DOUBLE, TYPE B	DRAIN TYPE* I	DRAIN TYPE* II A	II B	II C
[1]						1			1		
[2]			1					1			
[3]			1					1			
[4]			1					1			
[5]			1					1			
[6]				1				1			
[7]		1						1			
[8]		*						1			
[9]		*						1			
[10]		1						1			
[11]					1			1			
[12]		1						1			
[13]		1						1			
[EX1]											
[EX2]											
[EX3]											
SUBTOTAL		4	4	1	1	1					
TOTAL		4	4	1	1	1					

POST

POST NUMBER	TOP MOUNT POST 8 FT.	15 FT.	TYPE C & CL ARM LENGTH A	A	50'	A	SIGNAL SPACING B	C	D	D'	SIGN SPACING B	C	D	D'	TYPE B & BL ARM LENGTH E	K	E	K	E	K	LEFT ARM E SIGNAL SPACING F	G	H	H'	LEFT ARM E SIGN SPACING F	G	H	H'	RIGHT ARM K SIGNAL SPACING L	M	N	N'	RIGHT ARM K SIGN SPACING L	M	N	N'	INCLUDED ANGLE	LUMINAIRE BRACKET ARM* 4 FT.	6 FT.	8 FT.	10 FT.	12 FT.	15 FT.
(1)					1		12'	12'	10'	12'	4.5'																													1			
(2)					1		12'	12'	10'	12'	4'																													1			
(3)					1		14'	12'	10'	12'	4.5'																													1			
(4)					1		13'	12'	10'	12'	4'																													1			
SUBTOTAL					4																																						
TOTAL					4																																						

SIGNAL HEADS

SPAN NUMBER	POST NUMBER	FACE NUMBER	LUMINAIRE LED-A	INDICATIONS * 12" LENS CONVENTIONAL R	Y	YL	YR†	RL	FYL	G	S	L	R†	✋🚶	12" LENS OPTICAL LIMITING R	Y	YL	YR†	YL	YR†	G	S	L	R†	VISORS * 12" LENS	PED.
	1	70	1			1		1				1													3	
	1	71				1		1				1													3	
	1	41		1	1					1															3	
	1	42		1	1					1															3	
	2	50	1			1		1				1													3	
	2	51				1		1				1													3	
	2	21		1	1					1															3	
	2	22		1	1					1															3	
	3	30	1			1		1				1													3	
	3	31				1		1				1													3	
	3	81		1	1					1															3	
	3	82		1	1					1															3	
	4	10	1			1		1				1													3	
	4	11				1		1				1													3	
	4	61		1	1					1															3	
	4	62		1	1					1															3	
SUBTOTAL			4																							
TOTAL			4																							

POST NUMBER	FACE NUMBER	LOUVERS * A	B	C	D	E	F	BACKPLATE* LENSES 1	2	3	4	5	RETROREFLECTIVE BACKPLATE* LENSES 1	2	3	4	5	BRACKET* TYPE I	II	III	ONE-FACE SECTION 1- T	S	C	B	3- T	S	C	B	4- T	S	C	B	5- T	S	C	B	TWO-FACE SECTIONS 11- T	S	B	33- T	S	C	B	34- S	B	35- S	B	44- S	B	45- S	B
1	70									1								1										1																							
1	71									1								1										1																							
1	41									1								1										1																							
1	42									1								1										1																							
2	50									1								1										1																							
2	51									1								1										1																							
2	21									1								1										1																							
2	22									1								1										1																							
3	30									1								1										1																							
3	31									1								1										1																							
3	81									1								1										1																							
3	82									1								1										1																							
4	10									1								1										1																							
4	11									1								1										1																							
4	61									1								1										1																							
4	62									1								1										1																							
SUBTOTAL OPTICALLY LIMITED																																																			
SUBTOTAL CONVENTIONAL																												16																							
SUBTOTAL COMBINATION OL & CONV																																																			
TOTAL OPTICALLY LIMITED																																																			
TOTAL CONVENTIONAL																												16																							
TOTAL COMBINATION OL & CONV																																																			

CCTV CAMERA ASSEMBLY (INSTALLED)	
LOCATION	QUANTITY
KEARNEY ST/WEST BYPASS	1
TOTAL = 1 EACH	

REMARKS

ALL LENGTHS AND SPACINGS ARE IN FEET UNLESS OTHERWISE INDICATED.

* ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

** SEE STANDARD PLANS 902.10 AND 902.30 FOR CONCRETE REQUIREMENTS ON BASES.

*** USE D3-16 FOR ONE LINE. USE D3-18 FOR TWO LINE.

SIGNAL STRUCTURES WHICH WILL EXCEED THE DIMENSION LIMITS SHOWN ON STANDARD PLAN SHEETS IN SECTION 902 AND ANY OTHER INSTALLATION WHERE THE DETAILS OF CONSTRUCTION ARE NOT FURNISHED IN THE CONTRACT PLANS, SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER IN ACCORDANCE WITH THE 2001 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 4TH EDITION, AND LATEST INTERIMS. THE STRUCTURE SHALL BE DESIGNED AS IMPORTANCE CATEGORY I FOR FATIGUE WITH A 50-YEAR DESIGN LIFE. THE CONTRACTOR SHALL SUBMIT A SET OF SHOP DETAIL DRAWINGS INCLUDING WELD PROCEDURE SPECIFICATIONS AND DESIGN COMPUTATIONS FOR MODOT RECORDS AND REFERENCE. THE SUBMITTED DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND SEALED IN ACCORDANCE WITH THE LAWS RELATING TO ARCHITECTS AND PROFESSIONAL ENGINEERS (CHAPTER 327, RSMO.), AND SHALL INCLUDE A TITLE BLOCK OR SUMMARY SHEET WHICH LISTS AND CERTIFIES THAT THE PRODUCT MEETS ALL OF THE SPECIFIED DESIGN CRITERIA.

LEGEND

T - TOP MOUNT
S - SIDE MOUNT
C - SPANWIRE MOUNT
B - MAST ARM MOUNT

ROUTE 744 & ROUTE 160

INTERSECTION

SIGNAL SHEET
SHEET 3 OF 8

D-37A

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2021
ROUTE 744/160 | STATE MO
DISTRICT SW | SHEET NO. 40
COUNTY GREENE
JOB NO. J8P3087D
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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

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

EFFECTIVE: 10-01-2015

CONDUIT (WITH #14 TRACER WIRE)

FROM	TO	CENTER TO CENTER DISTANCE	LOOP DET. 1"	TRENCH 2"	TRENCH 3"	TRENCH 4"		PUSHED 2"	PUSHED 3"	PUSHED 4"	MEDIAN 2"	MEDIAN 3"	MEDIAN 4"	ON STRUCTURE 2"	ON STRUCTURE 3"		REMARKS
source	Ø1	10		14													
Ø1	HH	6		14													
Ø1	HH FOS	13		21													
HH	HH FOS	7		15													
HH	1	18			42												2 CONDUITS
1	2	66			128												2 CONDUITS
2	1	14			17												
2	3	105								103							
3	2	15							18								
3	4	92							90								
4	3	15							18								
4	5	115			9				104								
5	4	30			33												
FOS	6	18		21													
6	7	133		59				72									
7	8	58		56													INSTALLED BY SMT
8	9	244															
6	1	8		6													
3	12	65		62													
12	13	200		168				30									
source	Ø2	214		218													
Ø2	11	9		12													
11	EX3	275		273													
6	10	254		257													
10	EX2	273		271													
SUBTOTALS				1,467	229			102	230	103							
TOTALS				1,467	229			102	230	103							

CABLE

FROM	TO	CENTER TO CENTER DISTANCE	POWER 1c #1/0	POWER 1c #8	CONTROL 2c #16	CONTROL 5c #16	CONTROL 7c #16	CONTROL 3c #16	RADAR DETECTION SENSOR 6c	LUMINAIRE CONTROL 2c #12	LUMINAIRE POLE & BRACKET 1c #10	DETECTOR 1c #14 IN DUCT	DETECTOR 2c #14 LEAD-IN CABLE	FIBER 24 COUNT 6 MULT-MODE 18 SINGLE-MODE	EX. FIBER RELOCATION	ETHERNET	REMARKS
source	Ø1	10	54														
Ø1	HH	6		66													3 POWER CABLES
Ø1	HH FOS	13		87													3 POWER CABLES
HH	HH FOS	7														118	CAT 6e
HH	41	122					181										ON POST 1
41	42	12					18										JUMPER ON POST 1
HH	70	143					230										ON POST 1
70	71	12					18										JUMPER ON POST 1
HH	21	256					328										ON POST 4
21	22	12					18										JUMPER ON POST 4
HH	50	278					372										ON POST 4
50	51	12					18										JUMPER ON POST 4
HH	81	349					429										ON POST 3
81	82	12					18										JUMPER ON POST 3
HH	30	342					443										ON POST 3
30	31	12					18										JUMPER ON POST 3
HH	61	484					568										ON POST 2
61	62	12					18										JUMPER ON POST 2
HH	10	469					574										ON POST 2
10	11	12					18										JUMPER ON POST 2
HH	1	116						175									SENSOR ON POST 1
HH	2	220						286									SENSOR ON POST 4
HH	3	314						388									SENSOR ON POST 3
HH	4	445						522									SENSOR ON POST 2
Ø1	☼	143								168	76						ON POST 1
☼	☼	179								190	76						ON POST 2
☼	☼	162								173	76						ON POST 3
☼	☼	200								211	76						ON POST 4
source	Ø2	214	666														
EX2	FOS	540													614		RELOC. EX.
FOS	9	531													654		RELOC. EX.
FOS	13	462													520		RELOC. EX.
SUBTOTALS			720	153			3,269		1,371	742	304				1,788	118	
TOTALS			720	153			3,269		1,371	742	304				1,788	118	
USE			720	150			3,270		1,370	740	300				1,788	118	

INTERSECTION ROUTE 744 (KEARNEY ST.) & US 160 (WEST BY-PASS)

SIGNAL SHEET
SHEET 4 OF 8

D-37B

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
9/13/2021

ROUTE	STATE
744/160	MO

DISTRICT	SHEET NO.
SW	41

COUNTY
GREENE

JOB NO.
J8P3087D

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

EFFECTIVE 04-01-2018

POWER SUPPLY

LOCATION			POWER SUPPLY ASSEMBLY		CIRCUIT BREAKER TRIP RATING✳				LIGHTING CONTROL ✳ (ON POWER SUPPLY)		SERVICE POLE	
					CONTROLLER		POWER SUPPLY DISCONNECT					
							MAIN BREAKER					
APPROACH	STATION	OFFSET	DRAWING 902.15	DRAWING	AUXILIARY BREAKER	CONT & SIGNAL LAMPS	SIGNALS	LIGHTING	120 VOLT CONTROL CABINET	MAIN BREAKER	CONTRACT FURNISH	UTILITY COMPANY
ROUTE 744	965+87.03	80.7' RT	Type 2		15 Amps	50 Amps	50 Amps	20 Amps	1	20 Amps	Ci. Ft.	
ROUTE 160 N	981+49.46	88.1' RT	Type 2		15 Amps	50 Amps	100 Amps	Amps		Amps	Ci. Ft.	
		TOTAL	2									

CONTROLLER ASSEMBLY AND AUXILIARY EQUIPMENT

LOCATION			SYSTEM MASTER (CLOSED LOOP)		ACTUATED		ON-OFF✳ SWITCH TYPE		COORDINATION INTERFACE ✳						TIME ✳ CLOCK	NEMA CABINET TYPE ✳			2070 CABINET TYPE ✳		2070 SOFTWARE ✳	
									12C/7C HARDWIRE (1)		TIME BASE	CLOSED LOOP		ITS								
APPROACH	STATION	OFFSET	NEMA	2070	NEMA	2070	I	II	MASTER	LOCAL		NEMA	2070			E	EV	DOUBLE	332	336S	OMNI EX	WAPITI
ROUTE 744	965+81.40	78.9' LT		1															1		1	
ROUTE 744	965+75.12	75.8' LT												1					1			
		TOTAL	1																			

CONTRACTOR FURNISHED, CONTRACTOR INSTALLED RADAR DETECTION SYSTEM

1 EACH

UNINTERRUPTIBLE POWER SUPPLY

LOCATION			QUANTITY 902-99.02 EACH	REMARKS
APPROACH	STATION	OFFSET		
ROUTE 744	965+87.03	80.7' LT	1	MOUNT TO TYPE 2 POWER SUPPLY

SEE JOB SPECIAL PROVISIONS FOR MORE DETAIL

DETECTOR SCHEDULE

DETECTOR NUMBER	APPROACH	TYPE				
		PUSH BUTTON	INDUCTION LOOP (1)			RADAR ✳
			STANDARD	DELAY/ EXTEND ✳	CALL UNIT ✳	
1	WEST					1
2	NORTH					1
3	EAST					1
4	SOUTH					1
	TOTAL					4

2070 OUTPUT FILE ASSIGNMENTS

FR1	10	21		30	41		MONITOR
FR2	11	22		31	42		
FR3	50	61		70	81		
FR4	51	62		71	82		

✳ ITEMS FOR WHICH SEPARATE PAYMENT WILL NOT BE MADE.

SIGNAL SIGNS

QUANTITY	MUTCD SIGN NUMBER	SIZE	AREA	SIGN TOTAL AREA ITEM NO. 90208.33	SIGNAL SIGN MOUNTING HARDWARE ITEM NO. 90208.34
		INCHES	SQ.FT.	SQ.FT.	EA.
	R10-10L	24 X 30	5.0		
	R10-10R	24 X 30	5.0		
	R3-5L	30 X 36	7.5		
	R3-5R	30 X 36	7.5		
	R3-5A	30 X 36	7.5		
	R3-6L	30 X 36	7.5		
	R3-6R	30 X 36	7.5		
	R3-2	24 X 24	4.0		
	R3-1	24 X 24	4.0		
	R3-3	24 X 24	4.0		
	D3-1 ✳✳✳	VAR. X 18	9.0	18.0	2
	D3-1B ✳✳✳	VAR. X 18	10.5	21.0	2
	R10-3E	9 X 15	0.9		
	R10-11A	24 X 30	5.0		
	R10-13	36 X 24	6.0		
	R10-27A	30 X 36	7.5		
			SUBTOTAL	39.0	4
			TOTAL	39	4

✳✳✳ SEE SIGNING SHEET D-31 FOR STREET SIGN DETAILS. KEARNEY ST USED ON POSTS 2 & 4, WEST BYPASS USED ON POSTS 1 & 3.

2070 INPUT FILE ASSIGNMENTS

	CHANNEL	1	2	3	4	5	6	7	8	9	10	11	12	13	14
"I"	U											BBU			
	L														
"J"	U														
	L														

TOTAL NUMBER OF DETECTOR CARDS(2-CHANNEL) = 8

SIGNAL SHEET
SHEET 5 OF 8

RTE. 744 (KEARNEY ST) & ROUTE 160 (WEST BY-PASS)
INTERSECTION

D-37C

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/26/2021

ROUTE	STATE
744/160	MO
DISTRICT	SHEET NO.
SW	42

COUNTY GREENE
JOB NO. J8P3087D
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

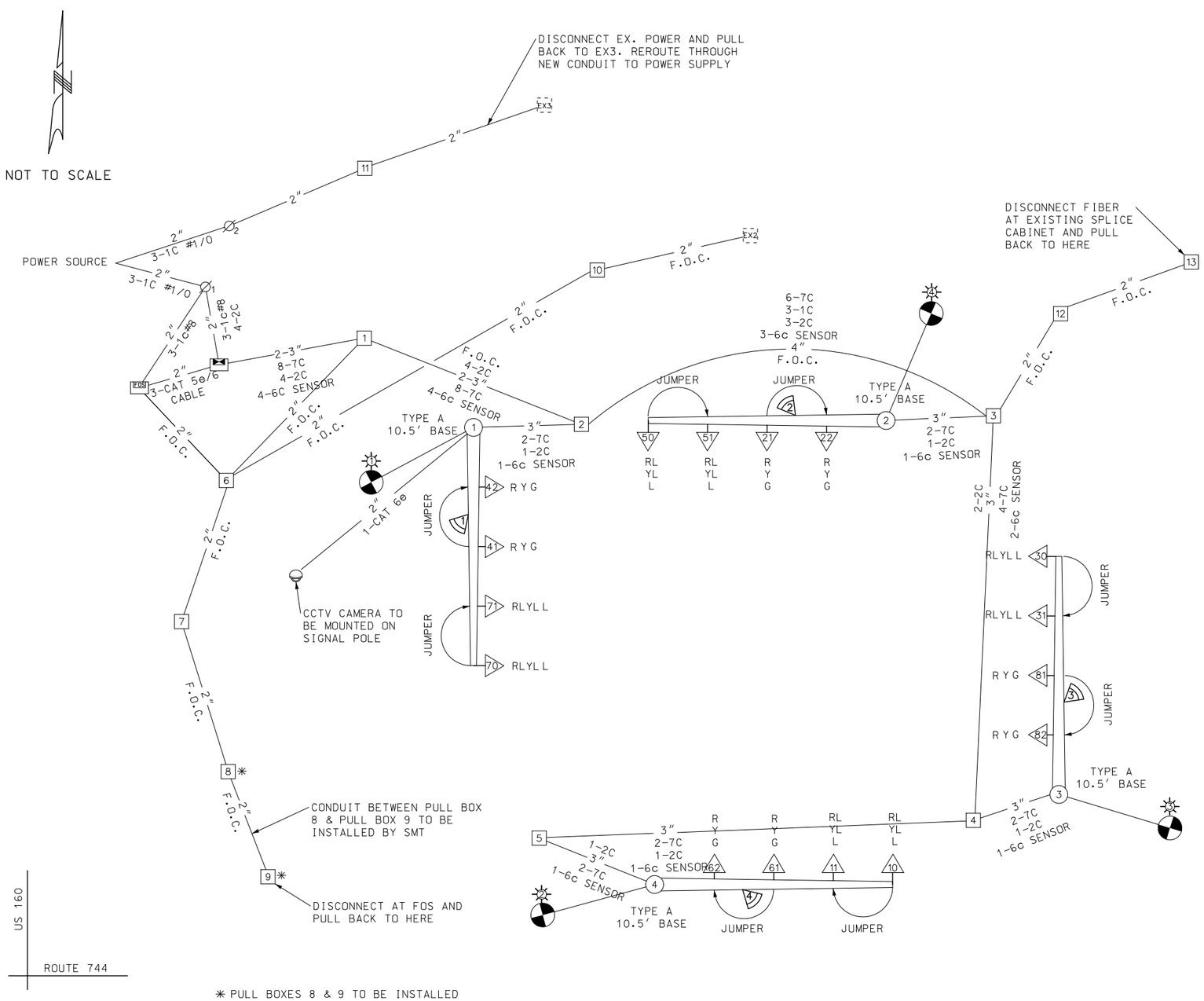
DATE	DESCRIPTION

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

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

EFFECTIVE 12-01-17

WIRING DIAGRAM



* PULL BOXES 8 & 9 TO BE INSTALLED BY SHO-ME TECHNOLOGIES (SMT).

LEGEND

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

SIGNAL SHEET
SHEET 6 OF 8

RTE. 744 (KEARNEY ST) & ROUTE 160 (WEST BY-PASS)

INTERSECTION

D-37D

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	8/26/2021
ROUTE	744/160
STATE	MO
DISTRICT	SW
SHEET NO.	43
COUNTY	GREENE
JOB NO.	J8P3087D
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

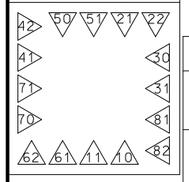
DATE	DESCRIPTION

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

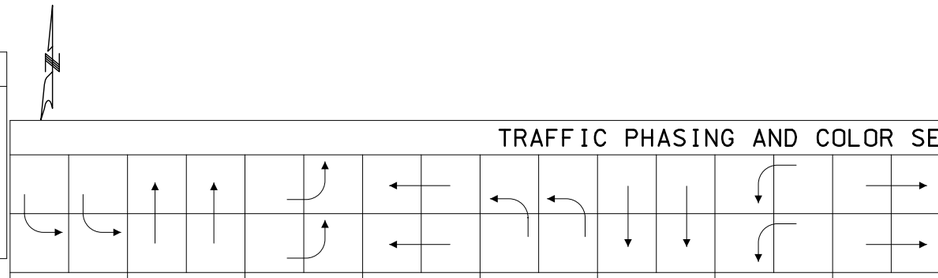
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

EFFECTIVE 12/01/2017

SIGNAL FACE LOCATION

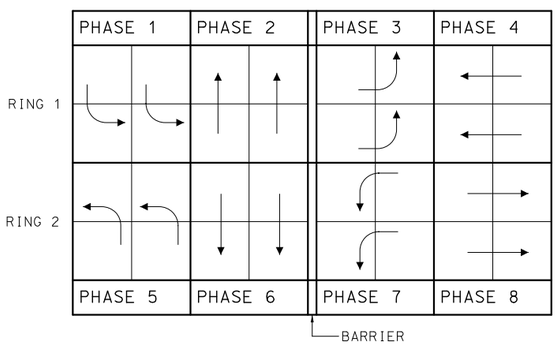


TRAFFIC PHASING AND COLOR SEQUENCE – ACTUATED CONTROLLERS



	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5	PHASE 6	PHASE 7	PHASE 8	PED Ø OVERLAP	PED Ø OVERLAP	PED Ø OVERLAP	PED Ø OVERLAP
FACE NUMBERS	10 11	21 22	30 31	41 42	50 51	61 62	70 71	81 82				
SIGNAL INDICATIONS R	RL RL	R R	RL RL	R R	RL RL	R R	RL RL	R R				
SIGNAL INDICATIONS Y	YL YL	Y Y	YL YL	Y Y	YL YL	Y Y	YL YL	Y Y				
SIGNAL INDICATIONS FYA												
SIGNAL INDICATIONS G	L L	G G	L L	G G	L L	G G	L L	G G				
DETECTOR ASSIGNMENTS												
DETECTOR ASSIGNMENTS (PEDS. ONLY)												
OVERLAP PARENT PHASES												

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



RING STRUCTURE

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

LEGEND

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

FLASHING OPERATION	
ALL APPROACHES	FR

CONTROLLER TYPE	2070

TRAFFIC SIGNAL CONTROL OPERATION

INTERSECTION OF
U.S. 160 WITH ROUTE 744

SIGNAL SHEET
SHEET 7 OF 8

D-38A

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

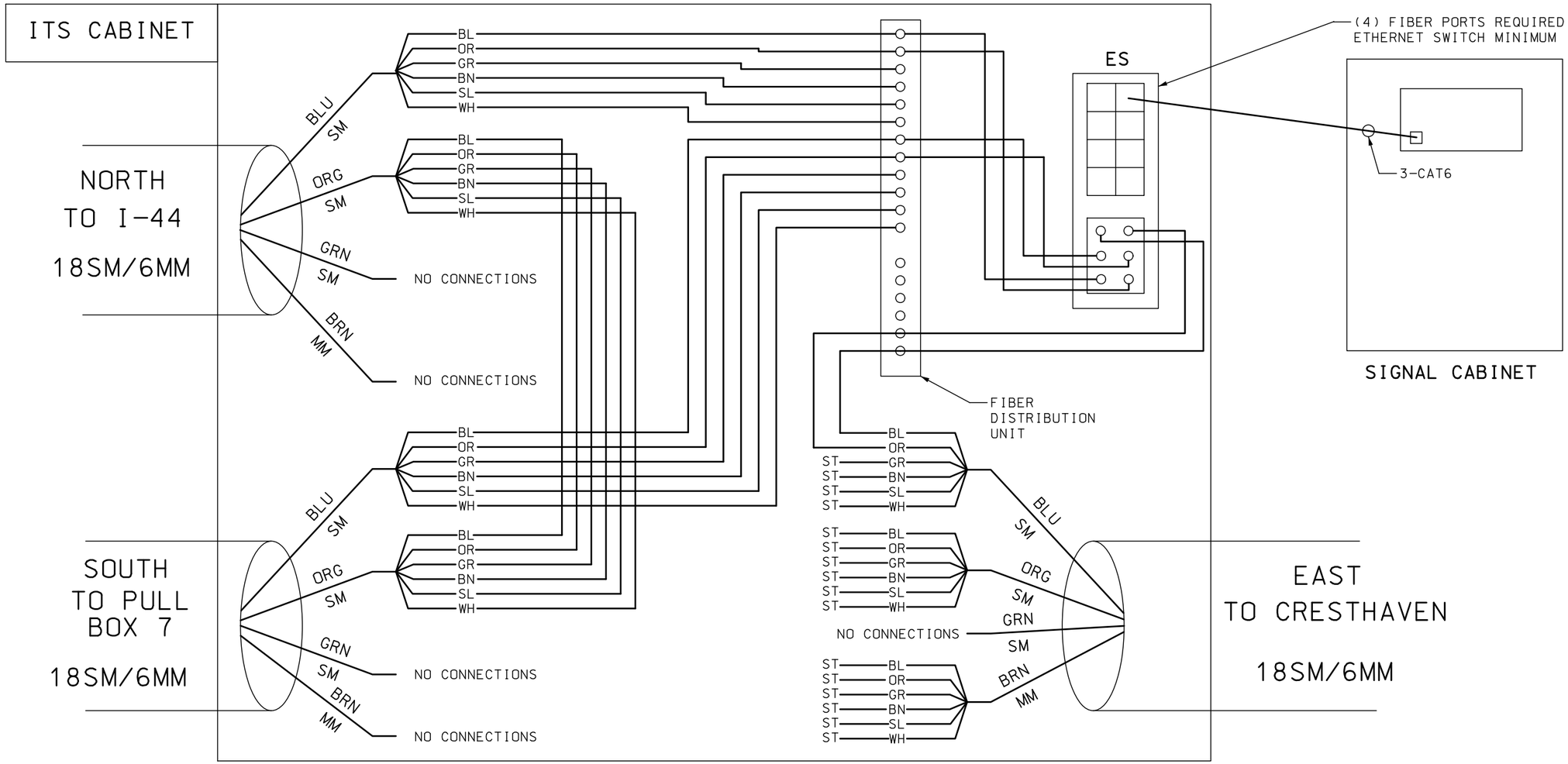
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

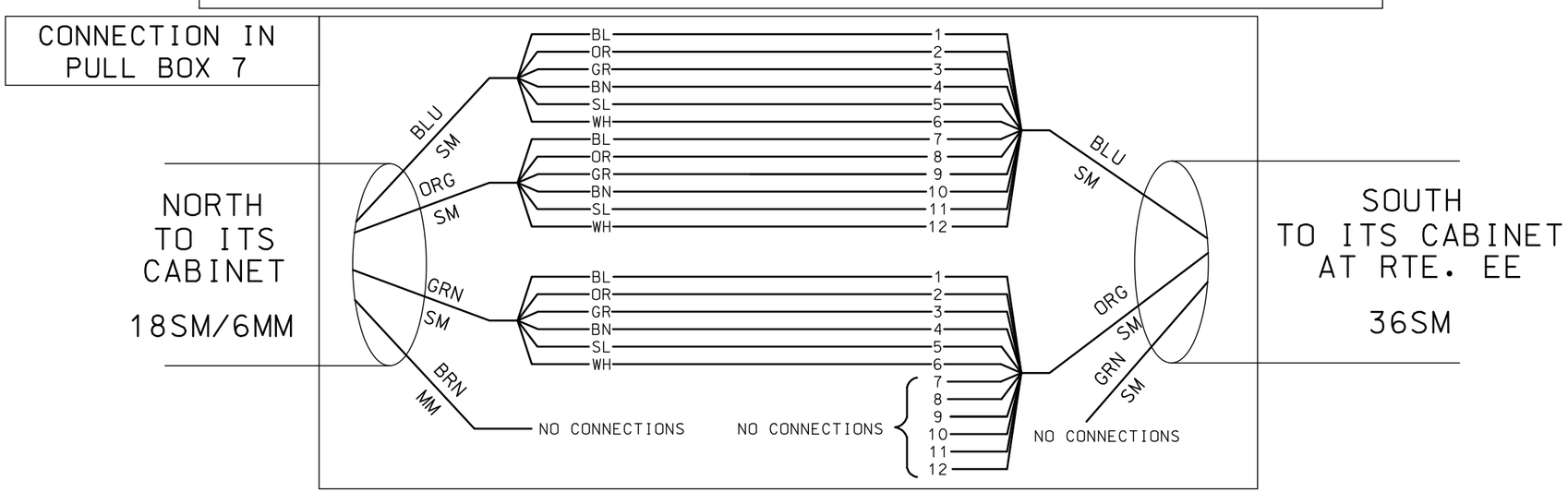
DATE PREPARED	
8/5/2021	
ROUTE 744/160	STATE MO
DISTRICT SW	SHEET NO. 44
COUNTY GREENE	
JOB NO. J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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

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





SIGNAL SHEET
FIBER SPLICE DETAILS
SHEET 8 OF 8

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	9/13/2021
ROUTE 744/160	STATE MO
DISTRICT SW	SHEET NO. 45
COUNTY	GREENE
JOB NO.	J8P3087D
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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

NOT TO SCALE

TO BE MOUNTED ON SIGNAL MAST ARMS. SEE SIGNAL SHEETS & D31 FOR ADDITIONAL DETAILS.

West Bypass M6-3 (31)

Kearney St M6-3 (30)

JCT M2-1 / 744 M1-5 — 979+00.00 (160) (15)

SPEED LIMIT 45 R2-1 — REMOUNT EXISTING SIGNS TO NEW POST

980 (16)

980+70.00 (160) (17) — TRAIL OF TEARS

981+90.00 (160) (18)

982+75.00 (160) (19)

983+20.00 (160) (20)

983+68.00 (160) (21)

983+50.00 (160) (21)

967+80.00 (744) (22)

967+60.00 (744) (23)

969+80.00 (744) (26)

970+40.00 (744) (27)

971+70.00 (744) (28)

972+83.00 (744) (29)

968+21.00 (744) (24)

969+30.00 (744) (25)

812+35.00 (160 S) (10)

812+53.00 (160 S) (9)

811+98.00 (160 S) (11)

811+12.00 (160 S) (12)

103+50.00 (160 S) (13)

102+90.00 (160 S) (14)

103+40.00 (160 S) (32)

961+95.00 (744) (1)

962+75.00 (744) (2)

963+25.00 (744) (3)

963+70.00 (744) (4)

965+00.00 (744) (5)

965+70.00 (744) (6)

966+10.00 (744) (7)

966+25.00 (744) (8)

960

965

970

POT STA 360+00.00

EXIST. ℄ MO 744 (KEARNEY) S 88° 51' 21" E

POT STA 813+13.20

POT STA 952+13.07

PI STA 968+16

UIP

(R)

(R) & RELOCATE

R4-7 / OM1-3

W11-1 / SHARE THE ROAD W16-1P

ONE WAY R6-1R

WEST M3-4

YIELD R1-2

M1-4 160 / M1-5 744 / M6-3 / M6-4

TO M4-5 / INTERSTATE 44 M1-1 / M6-1

EAST M3-2

Willard 6 (85 / 80) — REMOUNT EXISTING SIGNS 27 & 28 TO NEW POSTS

HISTORIC RTE 66

Airport Plaza Ave 2400N / Kearney St 3400W — REMOUNT EXISTING SIGNS TO NEW POST

STOP R1-1

Willard 6 (85) / 7 (80) — REMOUNT EXISTING SIGN TO NEW POSTS

Willard 6 (85) / 7 (80) — REMOUNT EXISTING SIGNS TO NEW POSTS

ONE WAY x2 R6-1R

SIGNS SHALL NOT EXTEND GREATER THAN 12" OVER THE EDGE OF SIDEWALK EXCEPT SIGNS WHICH HAVE AN 80" VERTICAL CLEARANCE FROM THE TOP OF SIDEWALK.

SIGNING SHEET
SHEET 1 OF 9

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/5/2021	
ROUTE	STATE
744/160	MO
DISTRICT	SHEET NO.
SW	46
COUNTY	
GREENE	
JOB NO.	
J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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

EFFECTIVE 12-01-2017

SIGNS (902 SIGNAL SIGNS TABULATED ON D-37A SHEET)						PIPE POST ✳					STRUCTURAL STEEL – POSTS ✳						BACKING BARS 2″ X 3/8″ BARS @ 2.55 LBS PER LIN FT				TOTAL	U CHANNEL POST	PERFORATED SQUARE STEEL TUBE POST – 2 IN							2.5 IN							FOOTINGS		REMARKS AND OTHER REQUIRED ITEMS.
SIGN NO.	SIGN SIZE	STATION	HORZ CLEAR IF NOT STD	LOCATION	SIGN DTL. SHT. NO.	PIPE SIZE	POST NO.1	POST NO.2	LBS PER FT	TOTAL ITEM NO. 9031220	POST DES NO.	POST NO.1	POST NO.2	POST NO.3	LBS PER FT	TOTAL	NO. EACH	LGTH	TOTAL	TOTAL	ITEM NO. 9031210	ITEM NO. 9031250	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031270A	ANCHOR 7 GA. ITEM NO. 9031273	OMNI 7 GA. ITEM NO. 9031279	ANCHOR 12 GA. ITEM NO. 9031271	OMNI 12 GA. ITEM NO. 9031278	POST NO.1	POST NO.2	TOTAL ITEM NO. 9031280	2.25″ INSERT ITEM NO. 9031272	ANCHOR 7 GA. ITEM NO. 9031281	OMNI 7 GA. ITEM NO. 9031282	BREAK-AWAY ASSEMBLY ITEM NO. 9031241	EMBD ITEM NO. 9031010	BOLT DOWN ITEM NO. 9031020	
						IN.	LF	LF		LBS		LF	LF	LF		LBS		IN.	LF	LBS	LBS	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	EACH	CU YDS	CU YDS	
1	ASSEMBLY	961+95		EB KEARNEY																			14.75		14.75	3											0.09		
2	ASSEMBLY	962+75		WB KEARNEY																										17		17	17	3		1	0.09		
3	60 X 94	963+25		EB KEARNEY							1	16	17.25		9	300																					0.32		REUSE EX. SIGN
4	36 X 12	963+70		WB KEARNEY																			11		11	3											0.09		
5	ASSEMBLY	965+00		WB KEARNEY																			13.25		13.25	3											0.09		
6	ASSEMBLY	965+70		WB KEARNEY																			14.75		14.75	3											0.09		
7	48 X 48	966+10		EB KEARNEY																			14		14	3											0.09		
8	ASSEMBLY	966+25		EB KEARNEY		4	19.5		10.79	210							5	250	20.8	53.1	53																0.36		
9	ASSEMBLY	812+53		NB 160 S		4	19.5		10.79	210							5	250	20.8	53.1	53																0.36		
10	48 X 48	812+35		NB 160 S																			14		14	3											0.09		
11	ASSEMBLY	811+98		SB 160 S																			14.75		14.75	3											0.09		
12	ASSEMBLY	811+12		SB 160 S																			13.25		13.25	3											0.09		
13	48 X 94	103+50		NB 160 S							1	14.75	16		9	277																					0.34		REUSE EX. SIGN
14	36 X 12	102+90		NB 160 S																			11		11	3											0.09		
15	ASSEMBLY	979+00		SB 160 N																			13.5		13.5	3											0.09		
16	36 X 48	980+70		NB 160 N																										14		14		3			0.09		
17		981+90		NB 160 N																			13.5		13.5	3											0.09		REUSE EX. SIGNS
18	ASSEMBLY	982+75		NB 160 N																			13.25		13.25	3											0.09		
19	ASSEMBLY	983+20		NB 160 N																			14.75		14.75	3											0.09		
20	ASSEMBLY	983+68		SB 160 N		4	15.75		10.79	170							4	200	16.7	42.3	42																0.36		
21	48 X 48	983+50		SB 160 N																			14		14	3											0.09		
22	48 X 48	967+80		WB KEARNEY																			14		14	3											0.09		
23	ASSEMBLY	967+60		WB KEARNEY		4	20.5		10.79	221							5	250	20.8	53.1	53																0.36		
24	ASSEMBLY	968+21		EB KEARNEY																			14.75		14.75	3											0.09		
25	ASSEMBLY	969+30		EB KEARNEY																			13.25		13.25	3											0.09		
26	36 X 12	969+80		WB KEARNEY																			11		11	3											0.09		
27	48 X 94	970+40		WB KEARNEY							1	14.5	16		9	275																					0.31		REUSE EX. SIGN
28		971+70		WB KEARNEY																			14.5		14.5	3											0.09		REUSE EX. SIGN
29	ASSEMBLY	972+83		WB KEARNEY																										16.5		16.5	16.5	3		1	0.09		REUSE EX. SIGNS
30	72 X 18			MAST ARM																																				
31	84 X 18			MAST ARM																																				
32		103+40		SB 160 S																			14.5		14.5	3											0.09		REUSE EX. SIGNS
SUBTOTAL							811									852				201					271.8	60.0						47.5	33.5	9.0		2	4.48		
TOTAL							810														1,050				272	60						48	34	9		2	4.5		

✳ BREAKAWAY ASSEMBLY IS INCIDENTAL FOR PIPE AND STRUCTURAL STEEL POSTS

ROUND PIPE POST AND FOOTING DATA TABLE

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

POST AND FOOTING DATA TABLE

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

SIGNING SHEET
SHEET 2 OF 9

D-29

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/9/2021
ROUTE 744/160 | STATE MO
DISTRICT SW | SHEET NO. 47
COUNTY GREENE
JOB NO. J8P3087D
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

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

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

EFFECTIVE 10-01-2016

STANDARD SIGN ASSEMBLIES

SIGN NUMBER	STATION	LOCATION	R4-7	OM1-1	W11-1	W16-1P	R6-1R	M3-4	M3-2	M1-5	M1-1	M1-4	R1-2	M4-5	M6-3	M6-1	M6-4	M2-1	R2-1	R1-1
			TYPE																	
			SIGN DESCRIPTION, SIZES & NUMBER OF EACH																	
						SHARE THE ROAD	ONE WAY	WEST	EAST	744	I-44	160		TO				JCT	SPEED LIMIT 45	STOP
1	961+95	EB KEARNEY	1	1																
2	962+75	WB KEARNEY			1	1														
3	963+25	EB KEARNEY																		
4	963+70	WB KEARNEY					1													
5	965+00	WB KEARNEY						1		1										
6	965+70	WB KEARNEY	1	1																
7	966+10	EB KEARNEY											1							
8	966+25	EB KEARNEY								1	1	1		1	1	1	1			
9	812+53	NB 160 S								1	1	1		1	1	1	1			
10	812+35	NB 160 S											1							
11	811+98	SB 160 S	1	1																
12	811+12	SB 160 S							1			1								
13	103+50	NB 160 S																		
14	102+90	NB 160 S					1													
15	979+00	SB 160 N								1								1		
16	980+70	NB 160 N																	1	
17	981+90	NB 160 N																		
18	982+75	NB 160 N						1				1								
19	983+20	NB 160 N	1	1																
20	983+68	SB 160 N								1		1			1		1			
21	983+50	SB 160 N											1							
22	967+80	WB KEARNEY											1							
23	967+60	WB KEARNEY								1	1	1		1	1	1	1			
24	968+21	EB KEARNEY	1	1																
25	969+30	EB KEARNEY							1	1										
26	969+80	WB KEARNEY					1													
27	970+40	WB KEARNEY																		
28	971+70	WB KEARNEY																		
29	972+83	WB KEARNEY					1													1
30		MAST ARM																		
31		MAST ARM																		
32	103+40	SB 160 S																		
		TOTALS =	5	5	1	1	4	2	2	7	3	6	4	3	4	3	4	1	1	1

SIGN SUMMARY

STANDARD SIGN OR SPECIAL SIGN NUMBER		SIGN DETAIL SHEET NO.	NO. EACH	SIZE, TYPE & SQUARE FEET: SIZE	FLAT SHEET SH ITEM NO. 9035004A	FLAT SHEET FLUORESCENT SHF ✳ ITEM NO. 9035069A	STRUCTURAL ST ITEM NO. 9035011A	RELOCATED SIGN (EACH) ITEM NO. 9039902
R4-7	KEEP RIGHT		5	24 X 30	25			
OM1-1	OBJECT MARKER		5	18 X 18	11.25			
W11-1	BICYCLE		1	36 X 36	9			
W16-1P	SHARE THE ROAD		1	24 X 30	5			
R6-1R	ONE WAY		4	36 X 12	12			
M3-4	WEST		2	24 X 12	4			
M3-2	EAST		2	24 X 12	4			
M1-5	MO 744		7	30 X 24	35			
M1-1	I-44		3	24 X 24	12			
M1-4	US 160		6	30 X 24	30			
R1-2	YIELD		4	48 X 48	64			
M4-5	TO		3	24 X 12	6			
M6-3	STRAIGHT ARROW		4	21 X 15	8.75			
M6-1	TURN ARROW		3	21 X 15	6.56			
M6-4	DOUBLE ARROW		4	21 X 15	8.75			
M2-1	JUNCTION		1	21 X 15	2.2			
R2-1	SPEED LIMIT		1	36 X 48	12			
R1-1	STOP		1	36 X 36	9			
3	SS - WEST APPROACH		1	60 X 94				1
13	SS - NORTH APPROACH		1	48 X 94				1
17	TRAIL OF TEARS		1					1
27	SS - EAST APPROACH		1	48 X 94				1
30	KEARNEY ST		2	72 X 18				2
31	WEST BYPASS		2	84 X 18				2
28/32	HISTORIC 66		2					2
				TOTAL	264.5			10
				USE	265			10

✳ ORANGE, YELLOW & YELLOW/GREEN

SIGNING SHEET
SHEET 3 OF 9

D-30

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/6/2021

ROUTE	STATE
744/160	MO
DISTRICT	SHEET NO.
SW	48

COUNTY: GREENE

JOB NO. J8P3087D

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

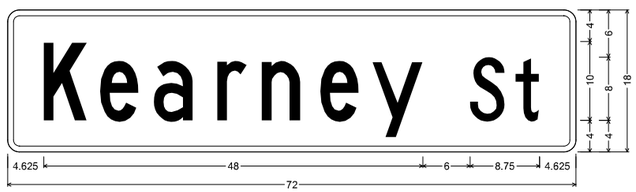
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

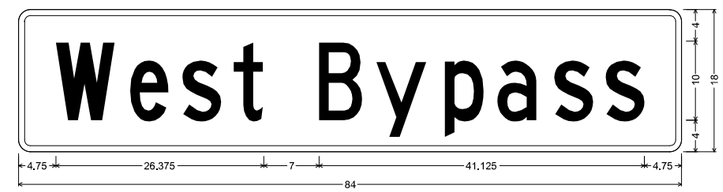
SIGNS TO BE MOUNTED ON SIGNAL MAST ARMS.
SEE SIGNAL SHEETS FOR DETAILS.



D3-1 SH-FLAT SHEET;
1.500" Radius, 0.750" Border, White on, Green;
"Kearney", C; "St", C;
Table of letter and object lefts

K	e	a	r	n	e	y	S	t
4.625	11.750	18.500	26.625	32.250	39.625	46.250	58.625	64.375

SIGN NO.	30	LOCATION	
STATION	966+59.07 RT	ON MAST ARM	
STATION	967+38.58 LT	ON MAST ARM	
ROADWAY	RTE. 744		



D3-1 SH-FLAT SHEET;
1.500" Radius, 0.750" Border, White on, Green;
"West Bypass", C;
Table of letter and object lefts

W	e	s	t	B	y	p	a	s	s
4.750	14.125	20.750	27.250	38.125	45.375	54.000	60.625	67.875	74.375

SIGN NO.	31	ROADWAY	LOCATION
STATION	983+96.56 RT	RTE. 160 N	ON MAST ARM
STATION	812+79.28	RTE. 160 S	ON MAST ARM

SIGNING SHEET
SHEET 4 OF 9

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

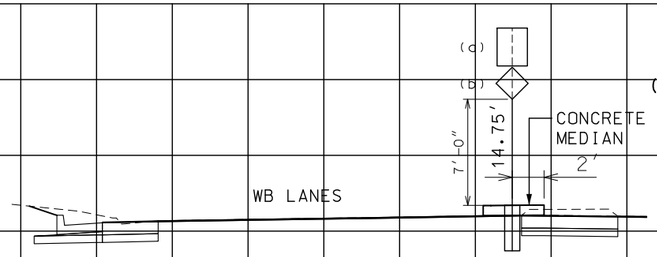
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	8/5/2021
ROUTE	744/160
STATE	MO
DISTRICT	SW
SHEET NO.	49
COUNTY	GREENE
JOB NO.	J8P3087D
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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



1

EB MO 744

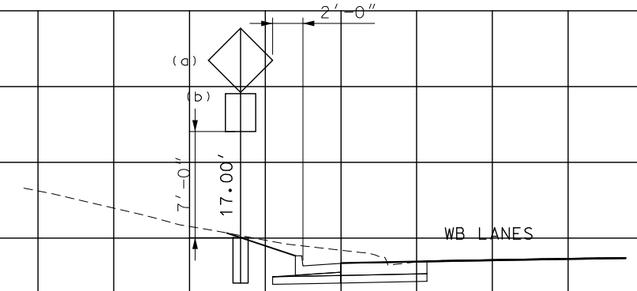
STA. 961+95.00
(IN RAISED MEDIAN)

(a) 24" x 30"
(b) 18" x 18"

1-2" 12 GA PSST

7 GA POST ANCHOR (2")

0.09 CY CONCRETE FOOTING



2

WB MO 744

STA. 962+75.00

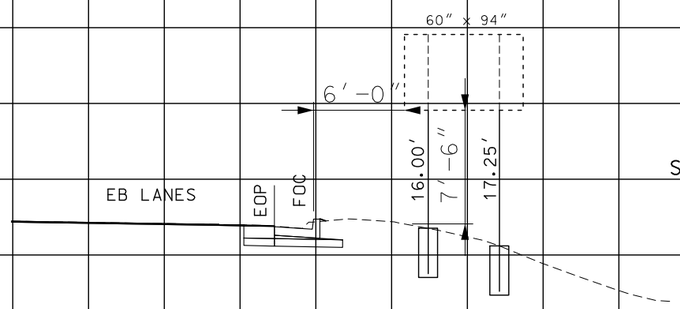
(a) 36" x 36"
(b) 24" x 30"

1-2.25" 12 GA PSST
1-2.5" 12 GA PSST

7 GA POST ANCHOR (2.5")

1 BREAKAWAY ASSEMBLY

0.09 CY CONCRETE FOOTING



3

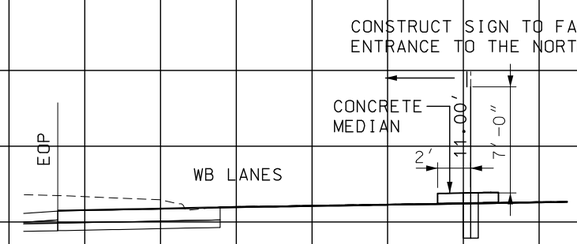
EB MO 744

STA. 963+25.00

REUSE EXIST. SIGN

2-#1 WF POSTS
W6 x 9

2 CONC. FOOTINGS
(0.16 CY EACH)



4

WB MO 744

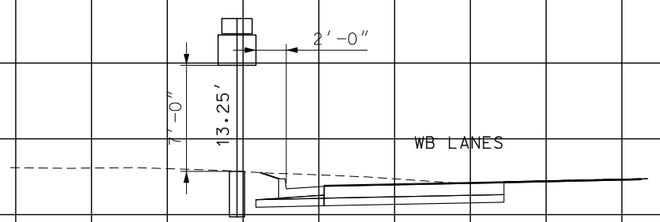
STA. 963+70.00
(IN RAISED MEDIAN FACING NORTH)

36" x 12"

1-2" 12 GA PSST

7 GA POST ANCHOR (2")

0.09 CY CONCRETE FOOTING



5

WB MO 744

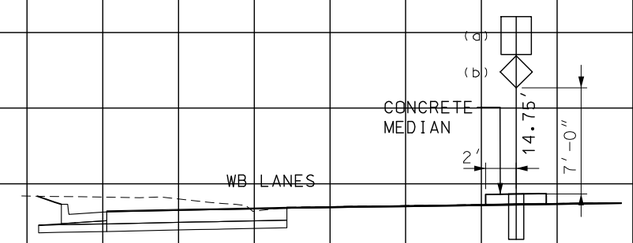
STA. 965+00.00

(a) 24" x 12"
(b) 30" x 24"

1-2" 12 GA PSST

7 GA POST ANCHOR (2")

0.09 CY CONCRETE FOOTING



6

WB MO 744

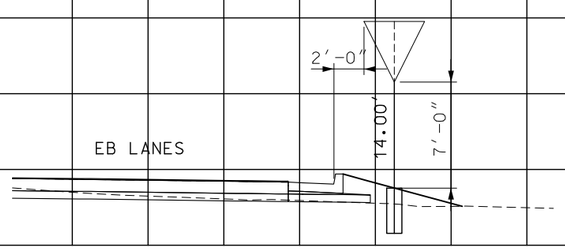
STA. 965+70.00
(IN RAISED MEDIAN)

(a) 24" x 30"
(b) 18" x 18"

1-2" 12 GA PSST

7 GA POST ANCHOR (2")

0.09 CY CONCRETE FOOTING



7

EB MO 744

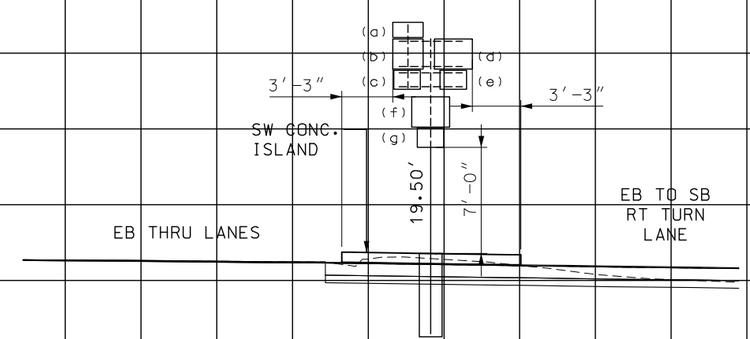
STA. 966+10.00

48" x 48"

1-2" 12 GA PSST

7 GA POST ANCHOR (2")

0.09 CY CONCRETE FOOTING



8

EB MO 744

STA. 966+25.00
(IN CONC. ISLAND)

ASSEMBLY
(a) 24" x 12"
(b) 24" x 24"
(c) 21" x 15"
(d) 30" x 24"
(e) 21" x 15"
(f) 30" x 24"
(g) 21" x 15"

1-4" PIPE POST

0.36 CY CONCRETE FOOTING

53.1 LBS. BACKING BARS

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/8/2021	
ROUTE 744/160	STATE MO
DISTRICT SW	SHEET NO. 50
COUNTY GREENE	
JOB NO. J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

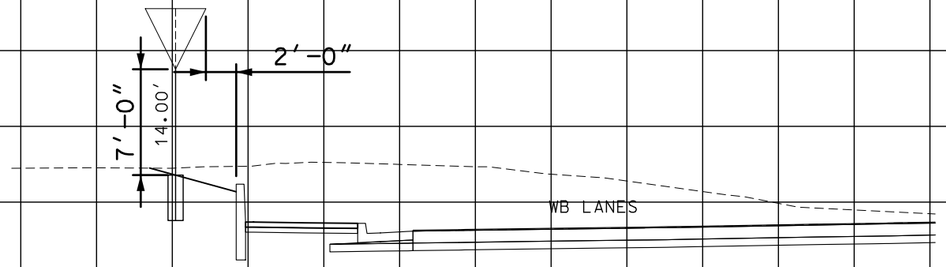
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

SIGNING SHEET
SHEET 5 OF 9



(22)

WB MO 744

STA. 967+80.00

48″ x 48″

1-2″ 12 GA PSST

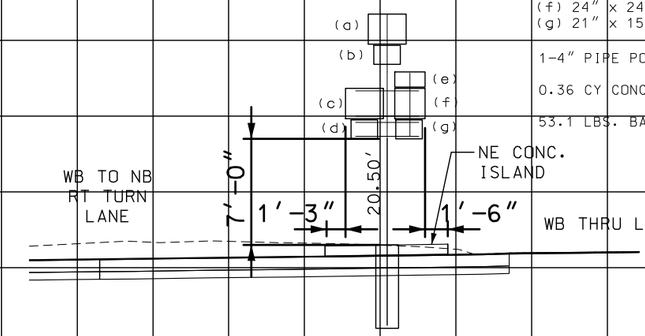
7 GA POST ANCHOR (2″)

0.09 CY CONCRETE FOOTING

(23)

WB MO 744

STA. 967+60.00
(IN CONC. ISLAND)



ASSEMBLY
(a) 30″ x 24″
(b) 21″ x 15″
(c) 30″ x 24″
(d) 21″ x 15″
(e) 24″ x 12″
(f) 24″ x 24″
(g) 21″ x 15″

1-4″ PIPE POST

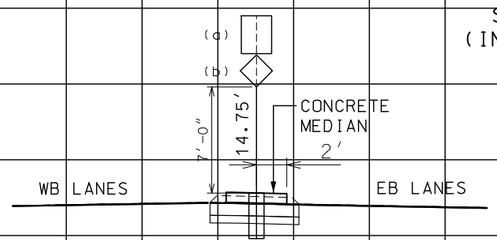
0.36 CY CONCRETE FOOTING

53.1 LBS. BACKING BARS

(24)

EB MO 744

STA. 968+21.00
(IN RAISED MEDIAN)



(a) 24″ x 30″
(b) 18″ x 18″

1-2″ 12 GA PSST

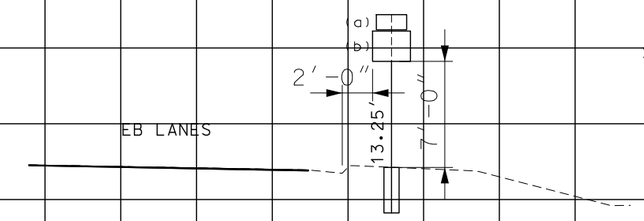
7 GA POST ANCHOR (2″)

0.09 CY CONCRETE FOOTING

(25)

EB MO 744

STA. 969+30.00



(a) 24″ x 12″
(b) 30″ x 24″

1-2″ 12 GA PSST

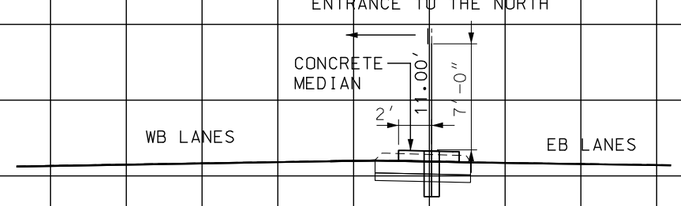
7 GA POST ANCHOR (2″)

0.09 CY CONCRETE FOOTING

(26)

WB MO 744

STA. 969+80.00
(IN RAISED MEDIAN
FACING NORTH)



36″ x 12″

1-2″ 12 GA PSST

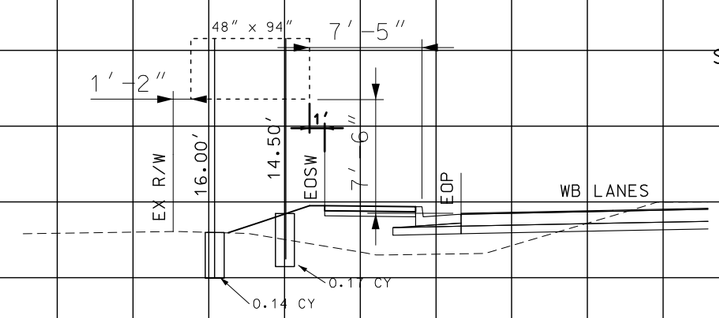
7 GA POST ANCHOR (2″)

0.09 CY CONCRETE FOOTING

(27)

WB MO 744

STA. 970+40.00



REUSE EXIST. SIGN

2-#1 WF POSTS
W6 x 9

2 CONC. FOOTINGS
(0.14 CY & 0.17 CY)

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	8/8/2021
ROUTE	744/160
STATE	MO
DISTRICT	SW
SHEET NO.	51
COUNTY	GREENE
JOB NO.	J8P3087D
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

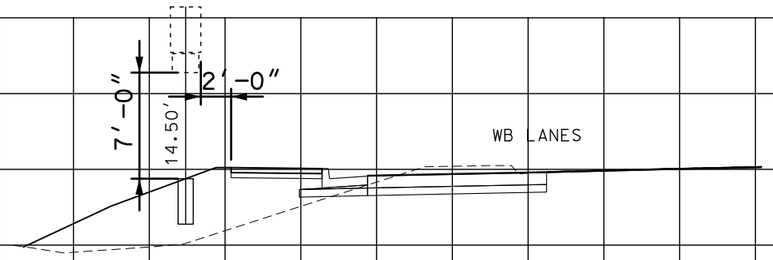
DATE

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SIGNING SHEET
SHEET 6 OF 9



(28)

WB MO 744

STA. 971+70.00

REUSE EXIST. SIGNS

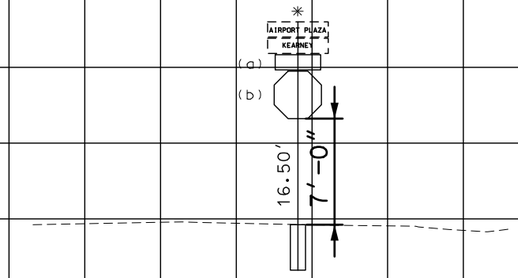
1-2" 12 GA PSST

7 GA POST ANCHOR (2")

0.09 CY CONCRETE FOOTING

✳ SIGNS SHOWN HORIZONTALLY FOR CLARITY.

✳✳ EXACT LOCATION MAY BE ADJUSTED WITH APPROVAL OF ENGINEER.



(29)

WB MO 744

✳✳ STA. 972+83.00
55.8' LT

REUSE EXIST. STREET NAME SIGNS.

(a) 36" x 12"
(b) 36" x 36"

1-2.25" 12 GA PSST
1-2.5" 12 GA PSST

7 GA POST ANCHOR (2.5")

1 BREAKAWAY ASSEMBLY

0.09 CY CONCRETE FOOTING

(9)

NB US 160 S

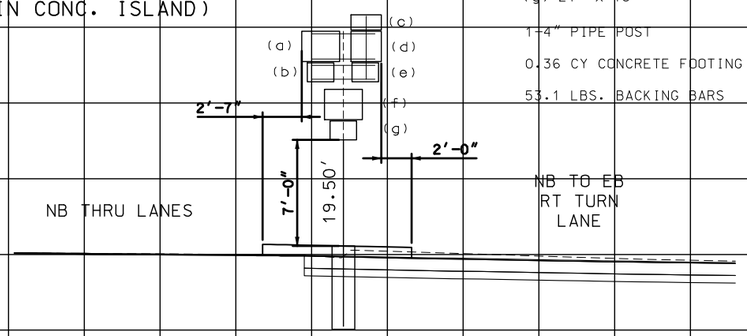
STA. 812+53.00
(IN CONC. ISLAND)

ASSEMBLY
(a) 30" x 24"
(b) 21" x 15"
(c) 24" x 12"
(d) 24" x 24"
(e) 21" x 15"
(f) 30" x 24"
(g) 21" x 15"

1-4" PIPE POST

0.36 CY CONCRETE FOOTING

53.1 LBS. BACKING BARS



(10)

NB US 160 S

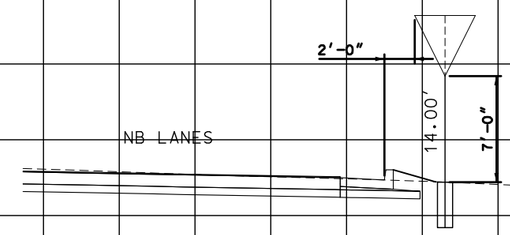
STA. 812+35.00
(IN CONC. ISLAND)

48" x 48"

1-2" 12 GA PSST

7 GA POST ANCHOR (2")

0.09 CY CONCRETE FOOTING



(11)

SB US 160 S

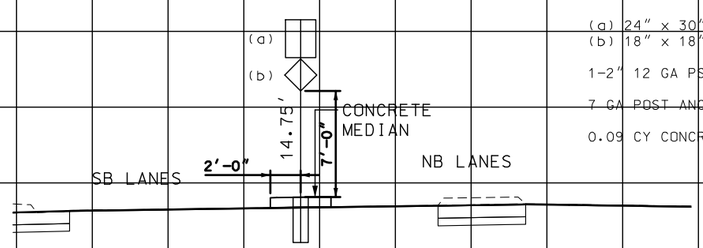
STA. 811+98.00
(IN RAISED MEDIAN)

(a) 24" x 30"
(b) 18" x 18"

1-2" 12 GA PSST

7 GA POST ANCHOR (2")

0.09 CY CONCRETE FOOTING



(12)

SB US 160 S

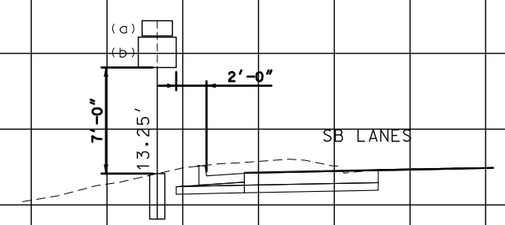
811+12.00

(a) 24" x 12"
(b) 30" x 24"

1-2" 12 GA PSST

7 GA POST ANCHOR (2")

0.09 CY CONCRETE FOOTING



STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/8/2021	
ROUTE	STATE
744/160	MO
DISTRICT	SHEET NO.
SW	52
COUNTY	
GREENE	
JOB NO.	
J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

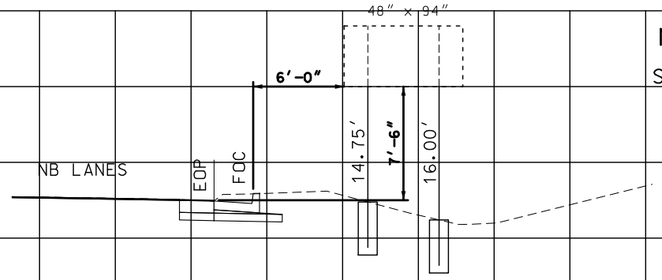
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SIGNING SHEET
SHEET 7 OF 9

13



NB US 160 S

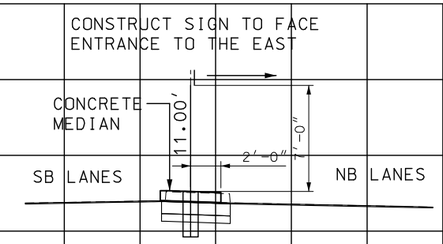
STA. 103+50.00

REUSE EXIST. SIGN

2-#1 WF POSTS
W6 x 9

2 CONC. FOOTINGS
(0.17 CY EACH)

14



NB US 160 S

STA. 102+90.00
(IN RAISED MEDIAN
FACING EAST)

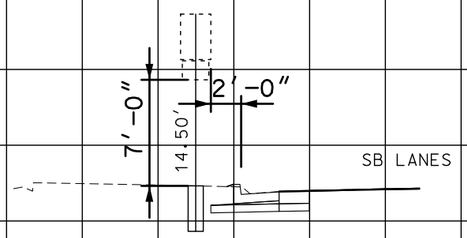
36" x 12"

1-2" 12 GA PSST

7 GA POST ANCHOR (2")

0.09 CY CONCRETE FOOTING

32



SB US 160 S

STA. 103+40.00

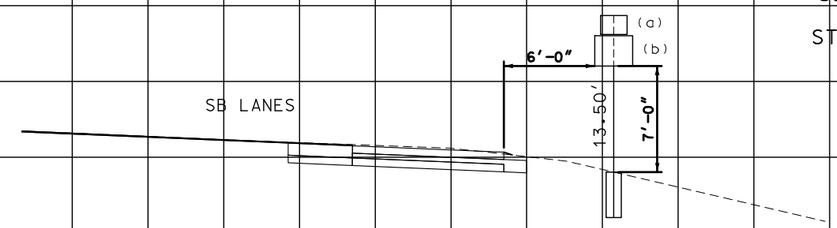
REUSE EXIST. SIGNS

1-2" 12 GA PSST

7 GA POST ANCHOR (2")

0.09 CY CONCRETE FOOTING

15



SB US 160 N

STA. 979+00.00

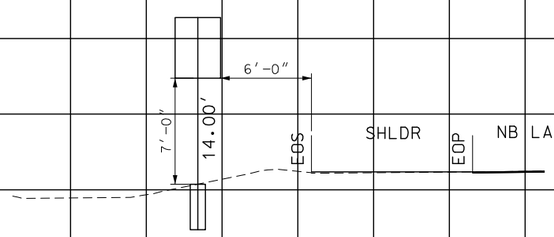
(a) 21" x 15"
(b) 30" x 24"

1-2" 12 GA PSST

7 GA POST ANCHOR (2")

0.09 CY CONCRETE FOOTING

16



NB US 160 N

STA. 980+70.00

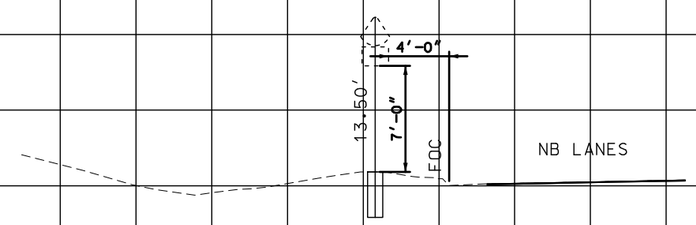
36" x 48"

1-2.5" 12 GA PSST

7 GA POST ANCHOR (2.5")

0.09 CY CONCRETE FOOTING

17



NB US 160 N

STA. 981+90.00

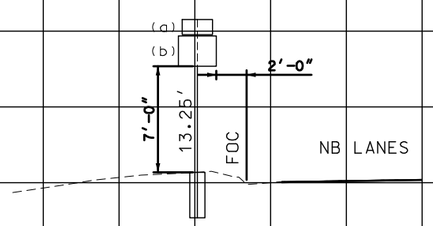
REUSE EXISTING SIGNS

1-2" 12 GA PSST

7 GA POST ANCHOR (2")

0.09 CY CONCRETE FOOTING

18



NB US 160 N

STA. 982+75.00

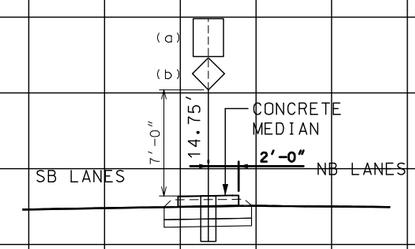
(a) 24" x 12"
(b) 30" x 24"

1-2" 12 GA PSST

7 GA POST ANCHOR (2")

0.09 CY CONCRETE FOOTING

19



NB US 160 N

STA. 983+20.00
(IN RAISED MEDIAN)

(a) 24" x 30"
(b) 18" x 18"

1-2" 12 GA PSST

7 GA POST ANCHOR (2")

0.09 CY CONCRETE FOOTING

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/8/2021	
ROUTE 744/160	STATE MO
DISTRICT SW	SHEET NO. 53
COUNTY GREENE	
JOB NO. J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

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

SIGNING SHEET
SHEET 8 OF 9

(20)

SB US 160 N

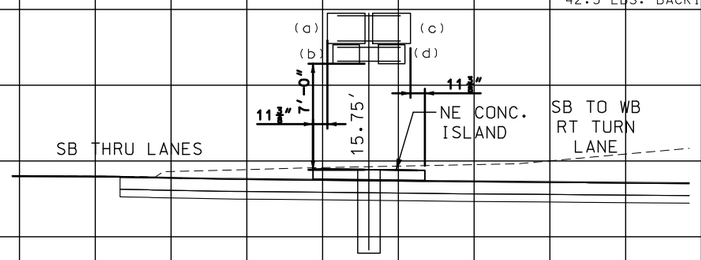
STA. 983+68.00
(IN CONC. ISLAND)

ASSEMBLY
(a) 30" x 24"
(b) 21" x 15"
(c) 30" x 24"
(d) 21" x 15"

1-4" PIPE POST

0.36 CY CONCRETE FOOTING

42.5 LBS. BACKING BARS



(21)

SB US 160 N

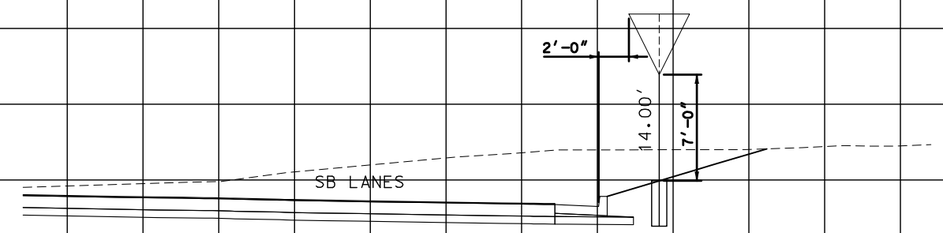
STA. 983+50.00

48" x 48"

1-2" 12 GA PSST

7 GA POST ANCHOR (2")

0.09 CY CONCRETE FOOTING



STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	8/8/2021
ROUTE	744/160
STATE	MO
DISTRICT	SW
SHEET NO.	54
COUNTY	GREENE
JOB NO.	J8P3087D
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

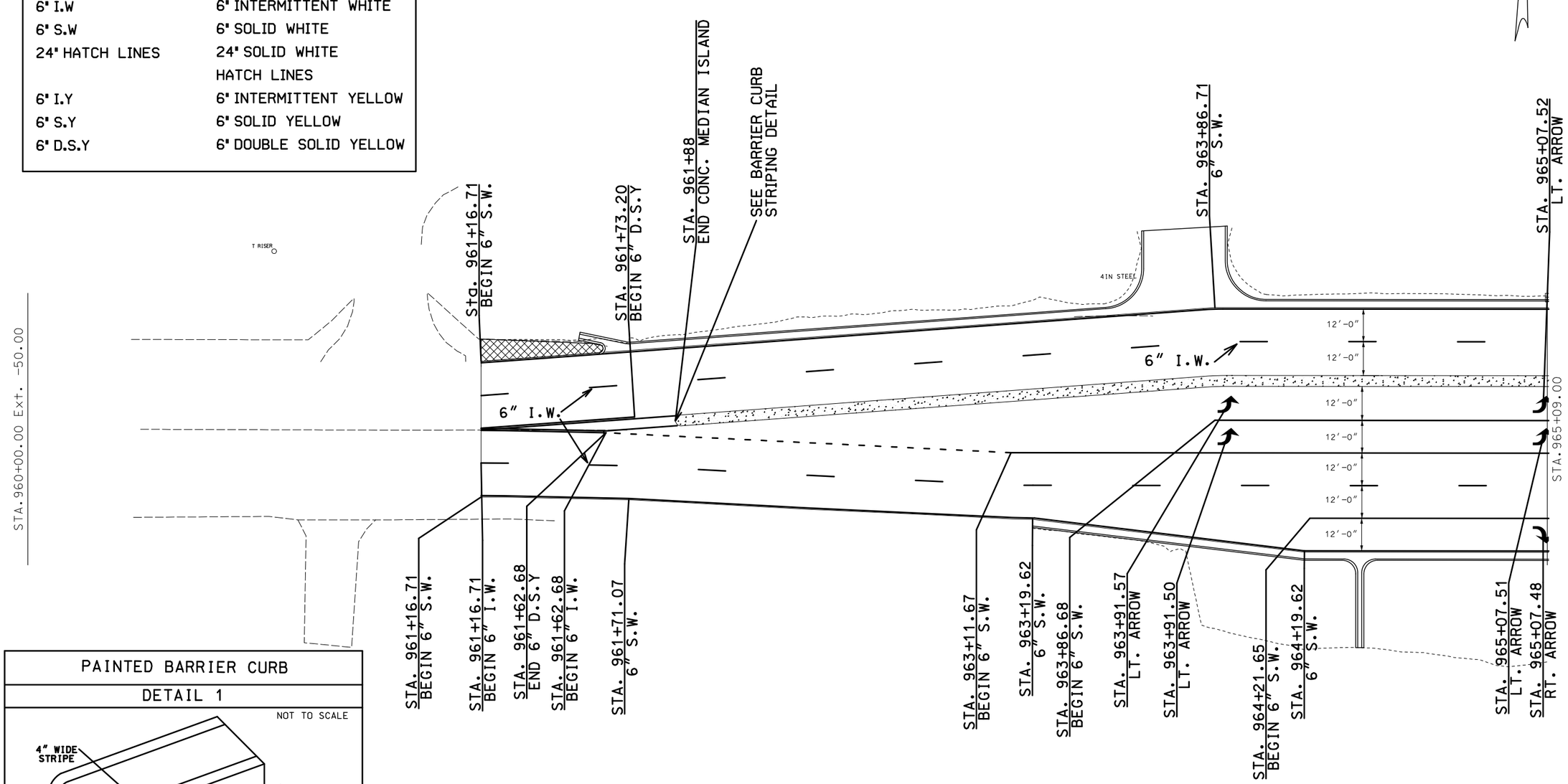
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SIGNING SHEET
SHEET 9 OF 9

STRIPING LEGEND

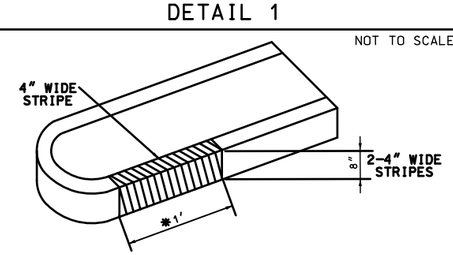
4" I.W	4" INTERMITTENT WHITE
4" S.W	4" SOLID WHITE
6" I.W	6" INTERMITTENT WHITE
6" S.W	6" SOLID WHITE
24" HATCH LINES	24" SOLID WHITE HATCH LINES
6" I.Y	6" INTERMITTENT YELLOW
6" S.Y	6" SOLID YELLOW
6" D.S.Y	6" DOUBLE SOLID YELLOW



PAINTED BARRIER CURB

DETAIL 1

NOT TO SCALE



NOTE:
* ONE LINEAR FOOT OF CURB INCLUDES 4" WIDE STRIPE ON TOP OF CURB (MEDIAN OR ISLAND) AND THE HEIGHT OF VERTICAL FACE OF CURB.

SCALE

0 20 40 60

PAVEMENT MARKING PLANS
SHEET 1 OF 5

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER

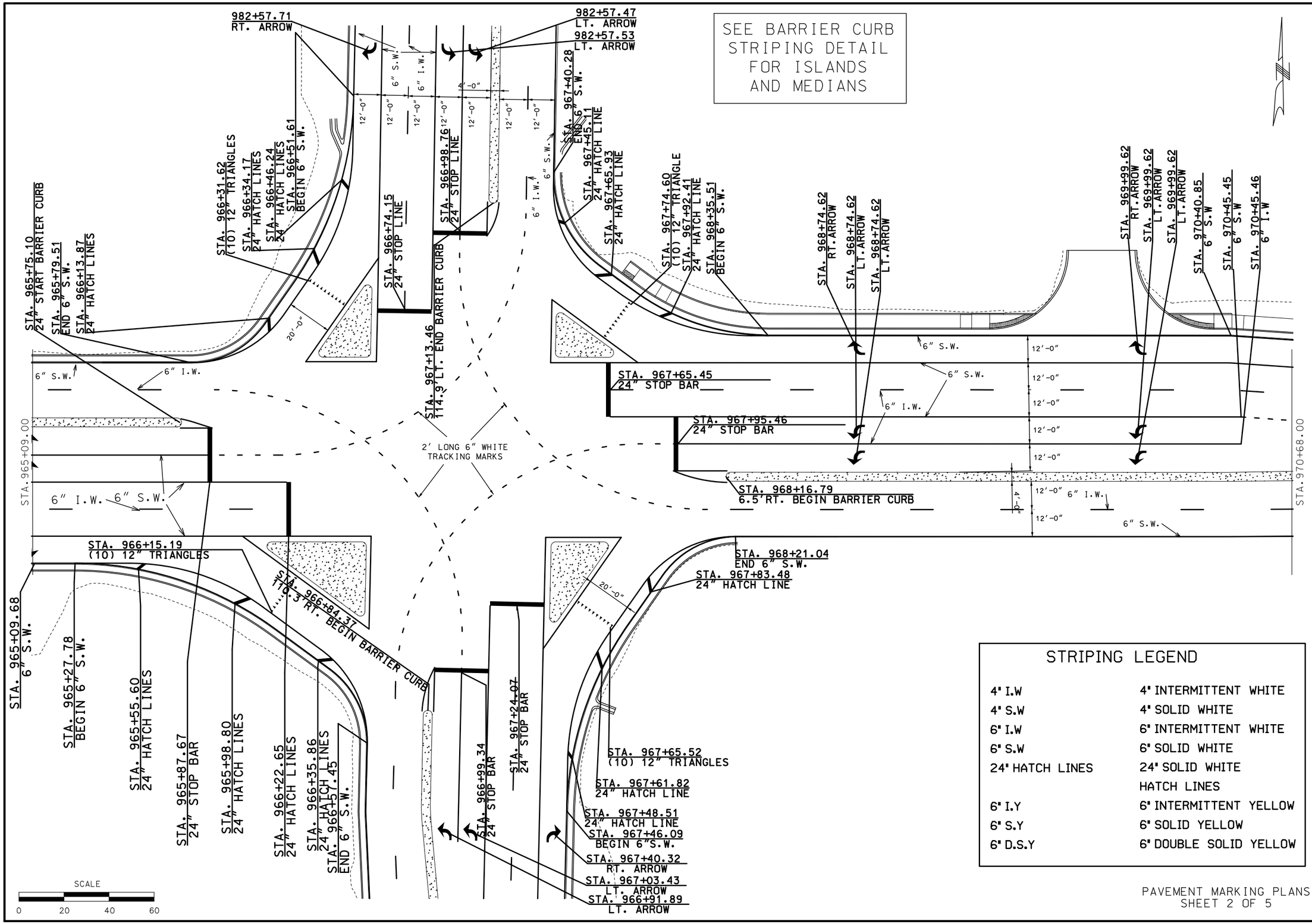
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	8/5/2021
ROUTE	744/160
STATE	MO
DISTRICT	SW
SHEET NO.	55
COUNTY	GREENE
JOB NO.	J8P3087D
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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



STRIPING LEGEND

4" I.W	4" INTERMITTENT WHITE
4" S.W	4" SOLID WHITE
6" I.W	6" INTERMITTENT WHITE
6" S.W	6" SOLID WHITE
24" HATCH LINES	24" SOLID WHITE HATCH LINES
6" I.Y	6" INTERMITTENT YELLOW
6" S.Y	6" SOLID YELLOW
6" D.S.Y	6" DOUBLE SOLID YELLOW

PAVEMENT MARKING PLANS
SHEET 2 OF 5

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	8/5/2021
ROUTE	744/160
STATE	MO
DISTRICT	SW
SHEET NO.	56
COUNTY	GREENE
JOB NO.	J8P3087D
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

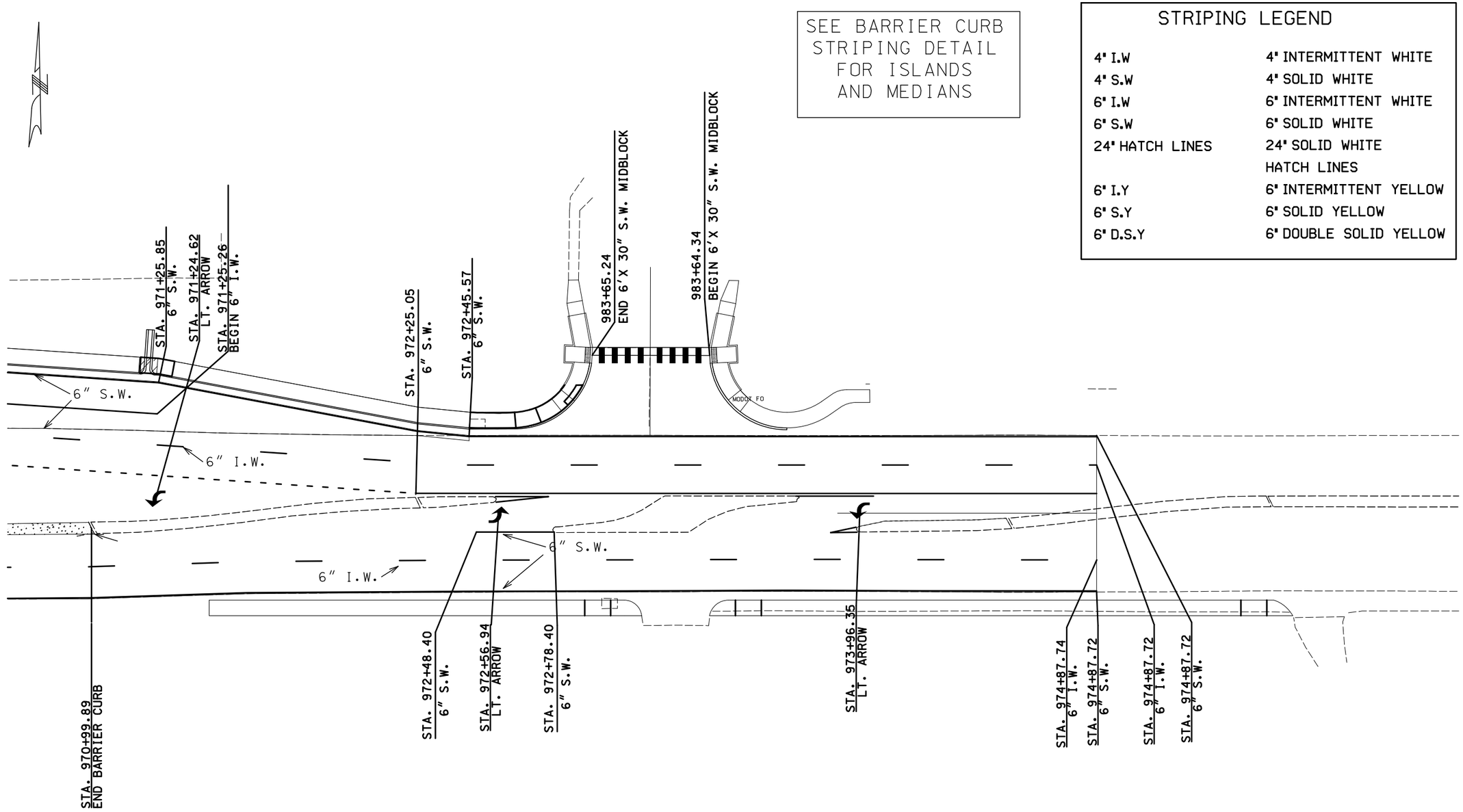
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

SEE BARRIER CURB STRIPING DETAIL FOR ISLANDS AND MEDIANS

STRIPING LEGEND

4" I.W	4" INTERMITTENT WHITE
4" S.W	4" SOLID WHITE
6" I.W	6" INTERMITTENT WHITE
6" S.W	6" SOLID WHITE
24" HATCH LINES	24" SOLID WHITE HATCH LINES
6" I.Y	6" INTERMITTENT YELLOW
6" S.Y	6" SOLID YELLOW
6" D.S.Y	6" DOUBLE SOLID YELLOW



SCALE

0 20 40 60

PAVEMENT MARKING PLANS
SHEET 3 OF 5

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/5/2021	
ROUTE 744/160	STATE MO
DISTRICT SW	SHEET NO. 57
COUNTY GREENE	
JOB NO. J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

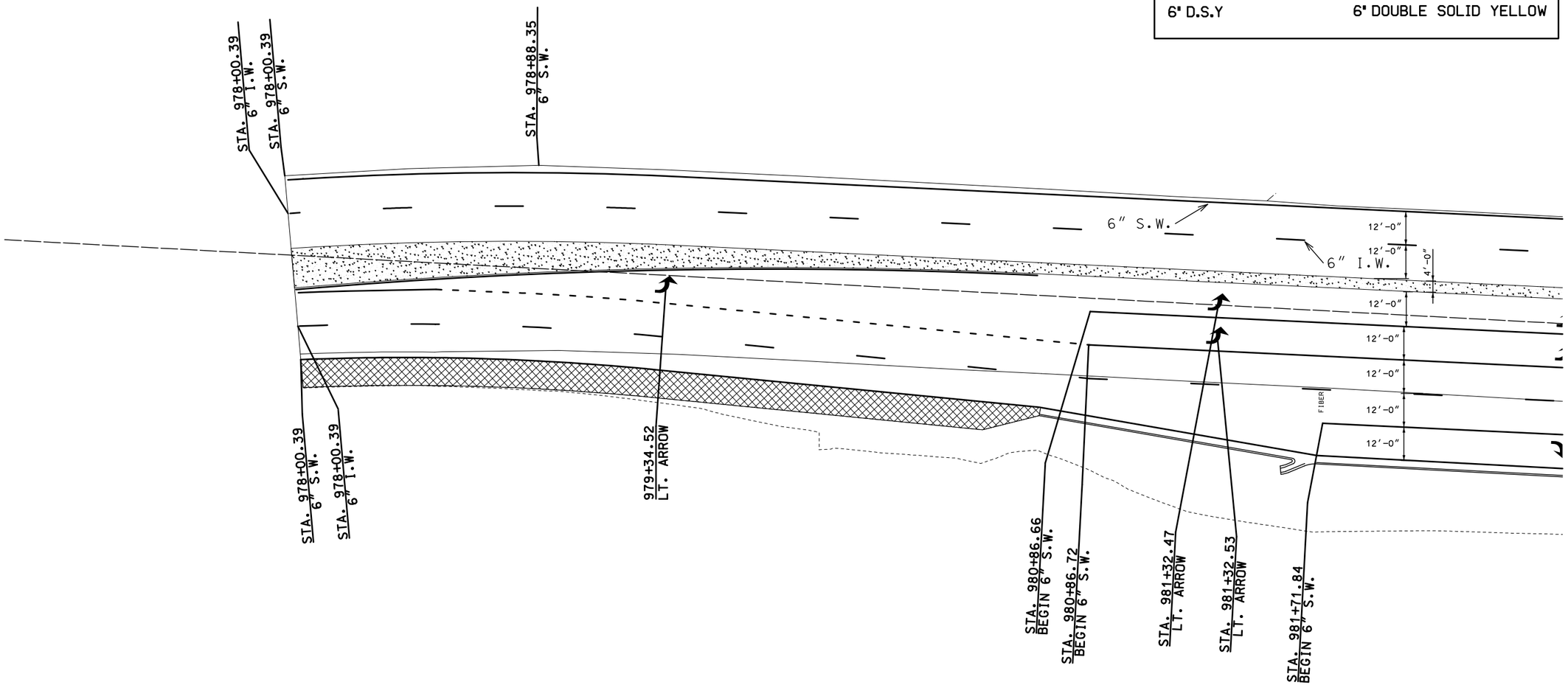
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SEE BARRIER CURB STRIPING DETAIL FOR ISLANDS AND MEDIANS

STRIPING LEGEND

4" I.W	4" INTERMITTENT WHITE
4" S.W	4" SOLID WHITE
6" I.W	6" INTERMITTENT WHITE
6" S.W	6" SOLID WHITE
24" HATCH LINES	24" SOLID WHITE HATCH LINES
6" I.Y	6" INTERMITTENT YELLOW
6" S.Y	6" SOLID YELLOW
6" D.S.Y	6" DOUBLE SOLID YELLOW



SCALE

0 20 40 60

PAVEMENT MARKING PLANS
SHEET 4 OF 5

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/5/2021	
ROUTE 744/160	STATE MO
DISTRICT SW	SHEET NO. 58
COUNTY GREENE	
JOB NO. J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

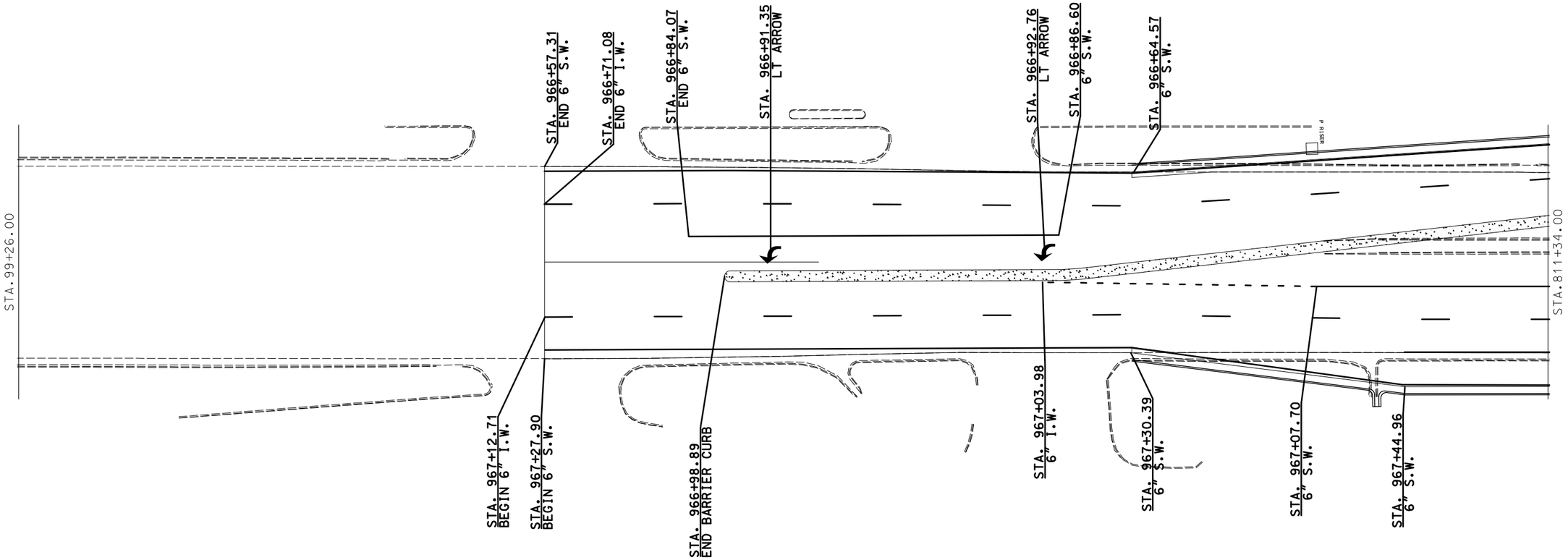
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

STRIPING LEGEND

4" I.W	4" INTERMITTENT WHITE
4" S.W	4" SOLID WHITE
6" I.W	6" INTERMITTENT WHITE
6" S.W	6" SOLID WHITE
24" HATCH LINES	24" SOLID WHITE HATCH LINES
6" I.Y	6" INTERMITTENT YELLOW
6" S.Y	6" SOLID YELLOW
6" D.S.Y	6" DOUBLE SOLID YELLOW

SEE BARRIER CURB STRIPING DETAIL FOR ISLANDS AND MEDIANS



SCALE

0 20 40 60

PAVEMENT MARKING PLANS
SHEET 5 OF 5

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

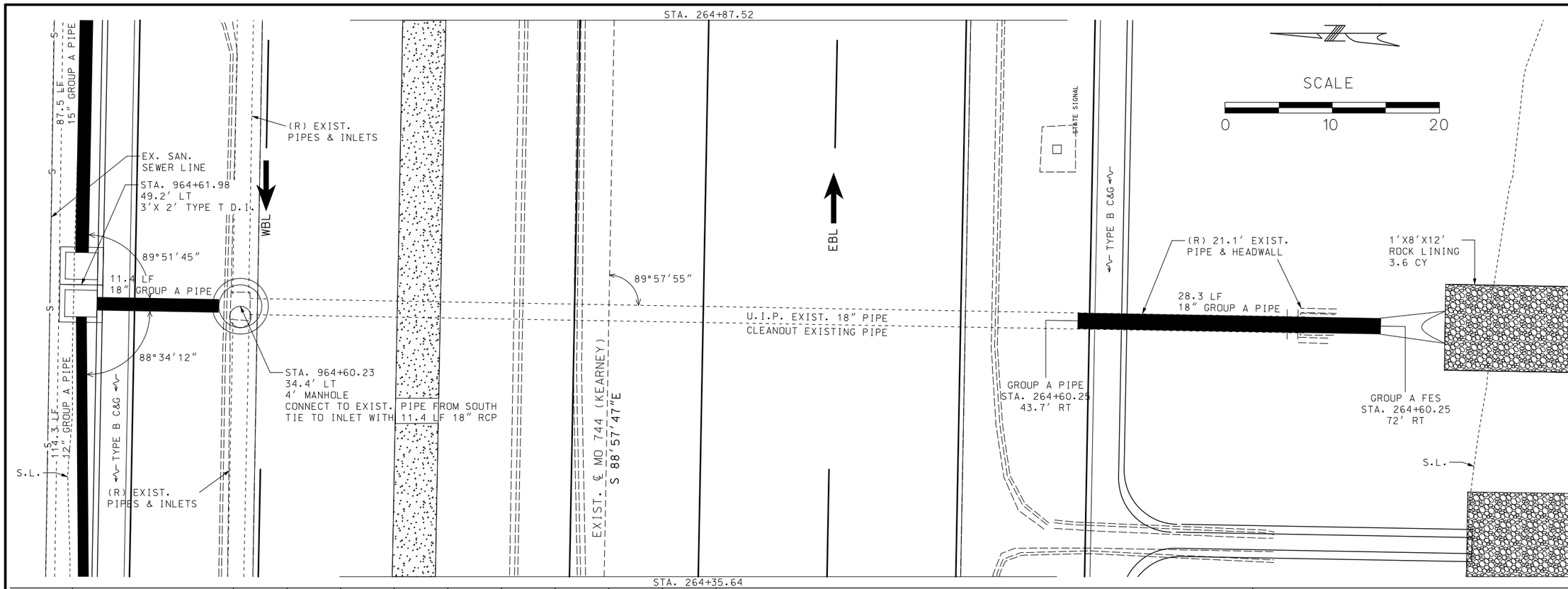
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	8/5/2021
ROUTE	744/160
STATE	MO
DISTRICT	SW
SHEET NO.	59
COUNTY	GREENE
JOB NO.	J8P3087D
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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



CLASS 3 EXCAVATION

TYPE T D.I. PRECAST 3'X2'
D = 5 LF
MH = TYPE 3 MANHOLE FRAME & COVER
1-12", 1-15", 1-18" PIPE OPENING REQD
CL 3 EXC = 11.8 CY

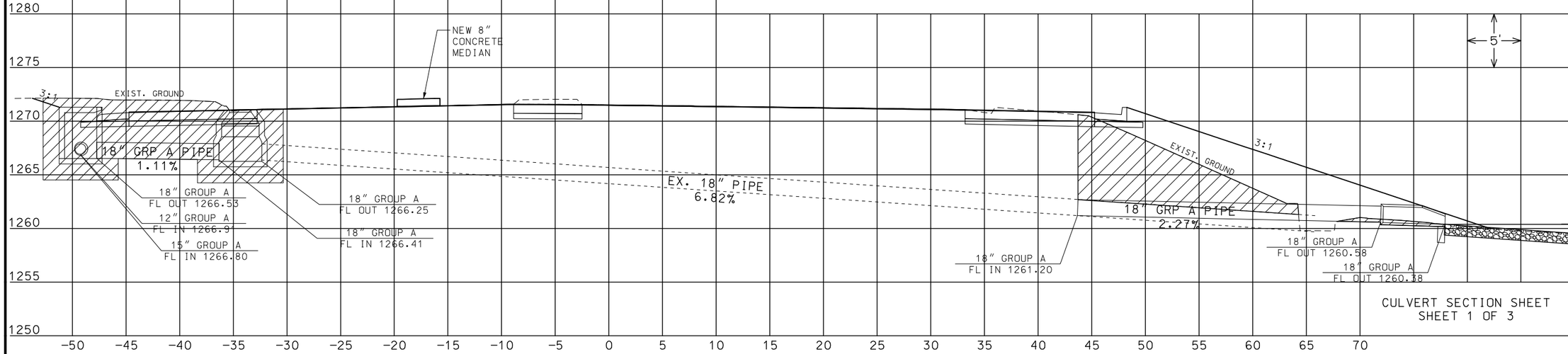
11.4'X18" GRP A PIPE
FROM D.I. STA. 964+61.98, 49.2' LT
TO M.H. STA.964+60.23, 34.4' LT
CL 3 EXC = 6.4 CY

4' MANHOLE
D = 5 LF
2-18" PIPE OPENING REQD
CL 3 EXC = 17.2 CY

28.3'X18" GRP A PIPE
FROM EX. 18" PIPE STA. 264+60.25, 43.7' RT
TO 18" FES STA. 264+60.25, 72.0' RT
1 PIPE COLLAR, TYPE A
CL 3 EXC = 15.7 CY

ROUTE 744 STA.264+60.25

00°02'05" SKEW R.A.
11.4"X18" GROUP A PIPE (EXTEND LT.)
32.1'X18" GROUP A PIPE (EXTEND RT.)
1 -18" GROUP A FES REQ'D
ROCK LINING = 4 CY
CL 3 EXC = 59.3 CY



CULVERT SECTION SHEET
SHEET 1 OF 3

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

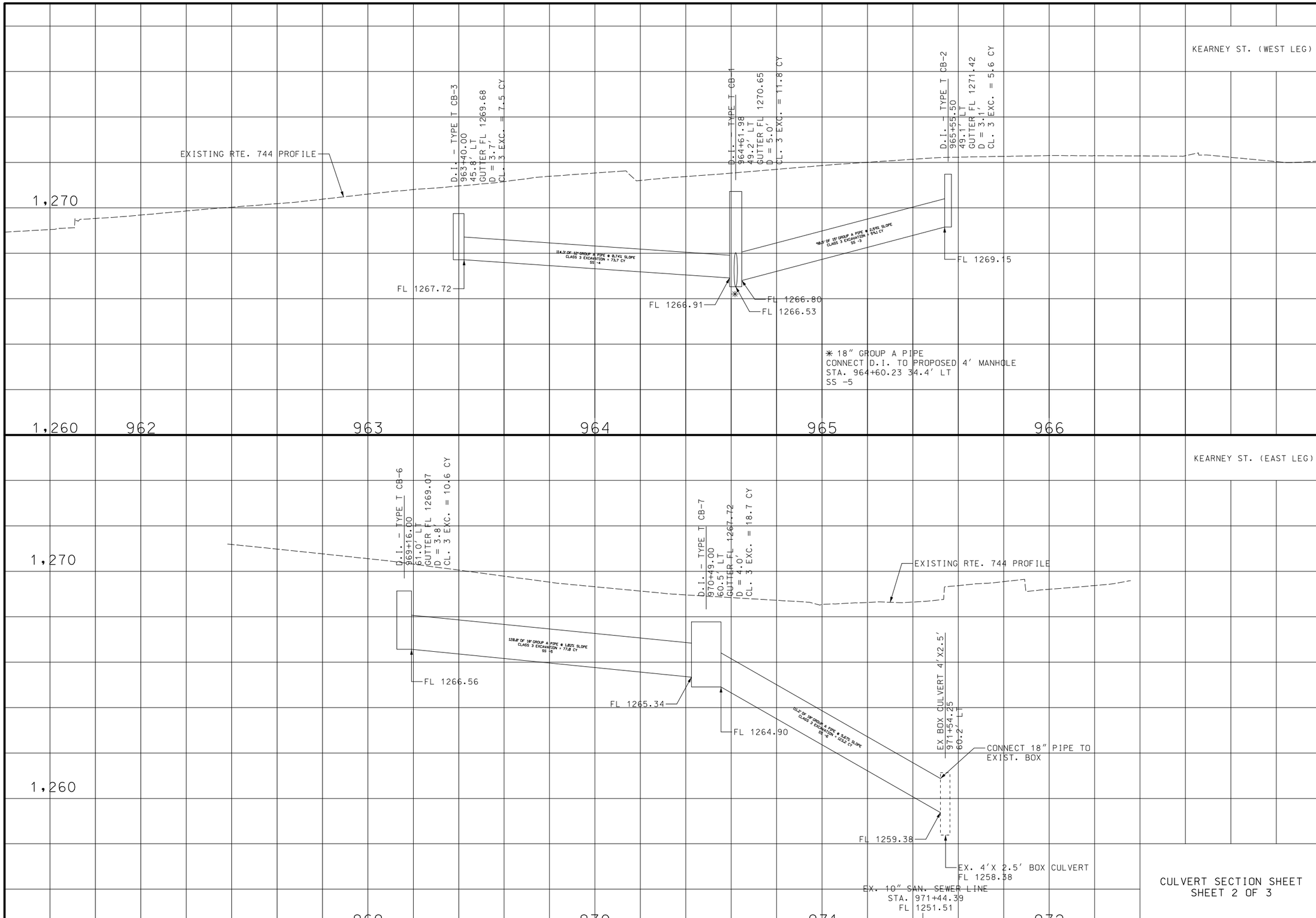
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/5/2021	
ROUTE	STATE
744/160	MO
DISTRICT	SHEET NO.
SW	60
COUNTY	
GREENE	
JOB NO.	
J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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



CULVERT SECTION SHEET
SHEET 2 OF 3

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

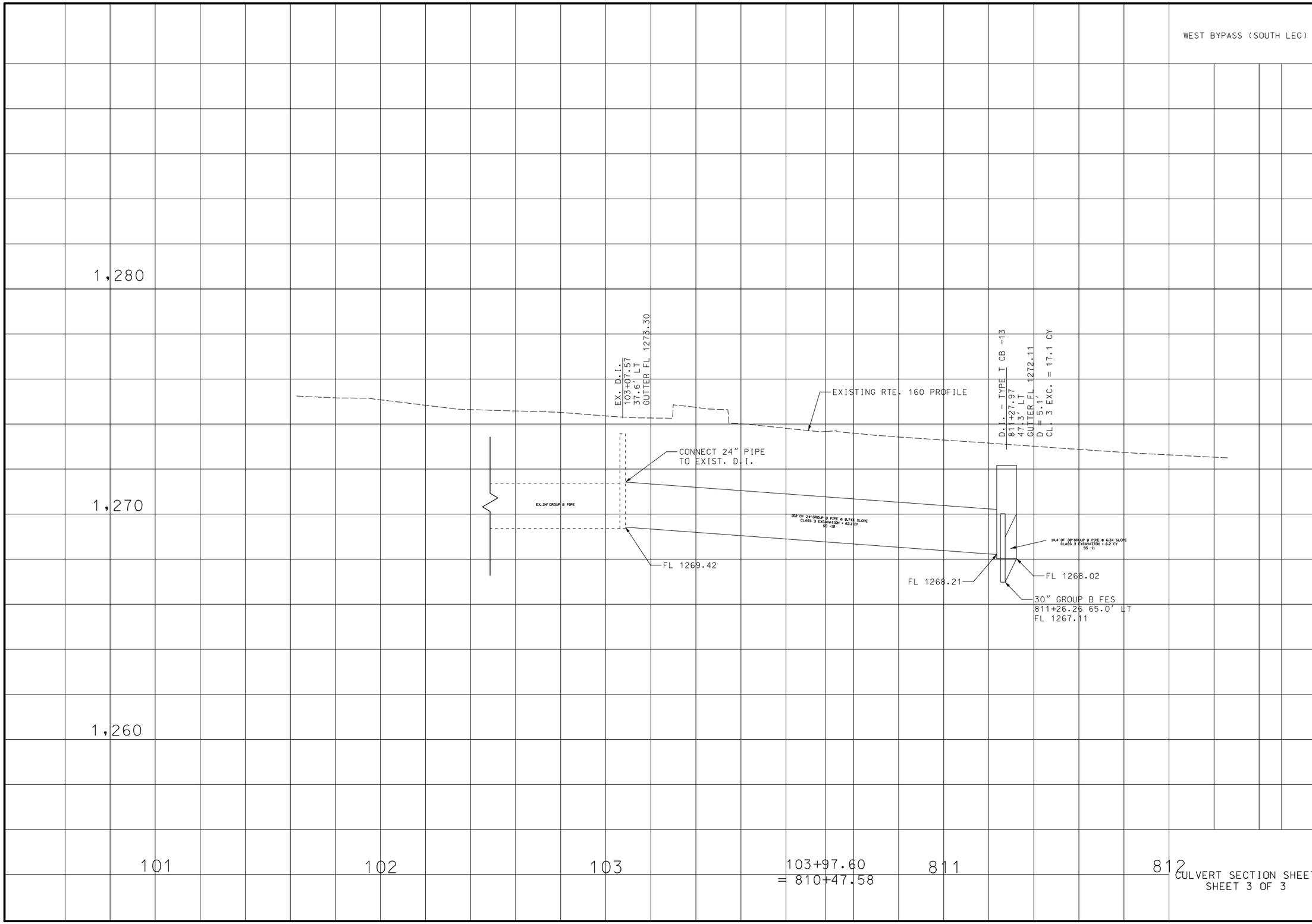
DATE PREPARED	
8/5/2021	
ROUTE	STATE
744/160	MO
DISTRICT	SHEET NO.
SW	61
COUNTY	
GREENE	
JOB NO.	
J8P3087D	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



CULVERT SECTION SHEET
SHEET 3 OF 3

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

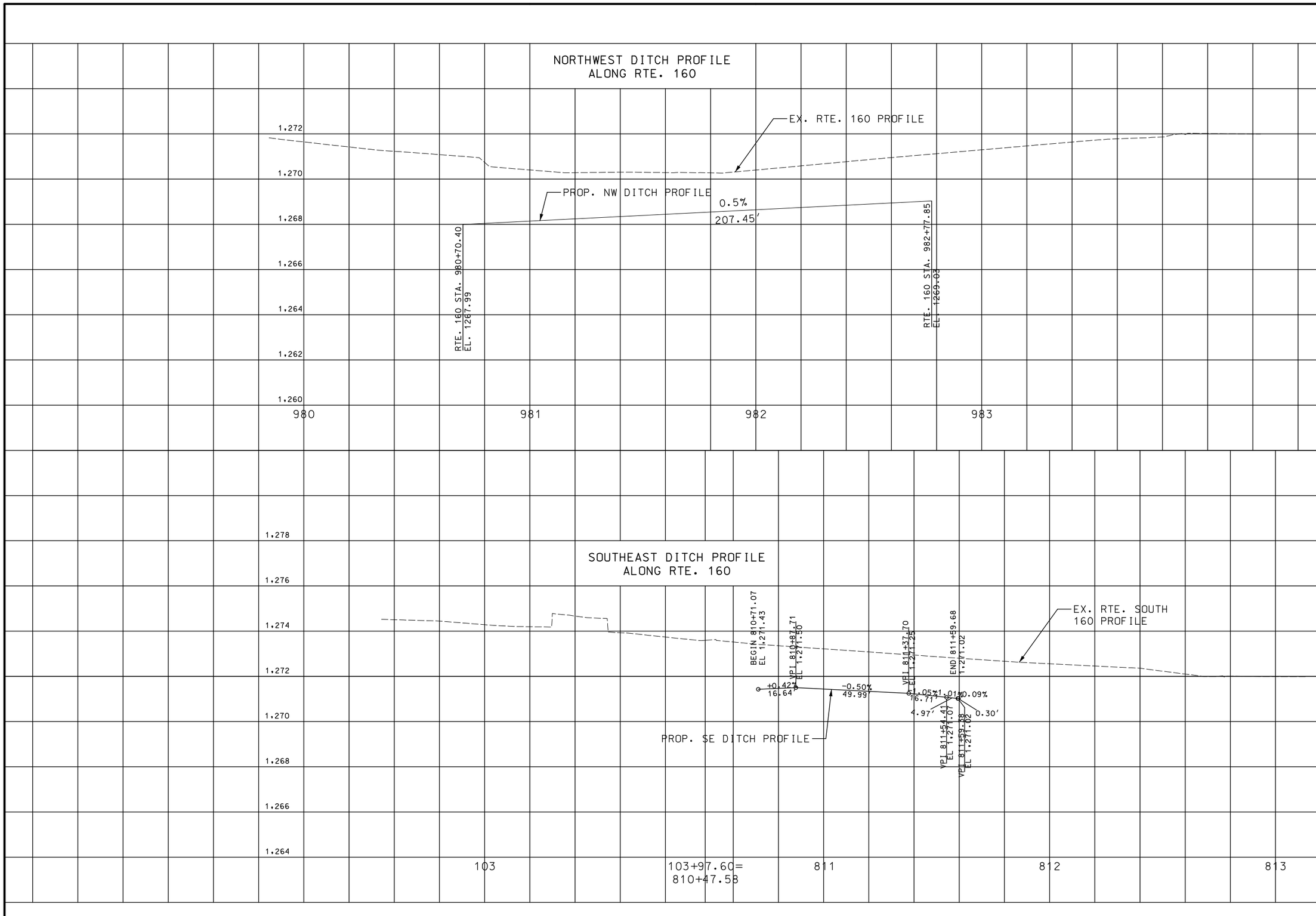
DATE PREPARED	8/5/2021
ROUTE	744/160
STATE	MO
DISTRICT	SW
SHEET NO.	62
COUNTY	GREENE
JOB NO.	J8P3087D
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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



STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	8/5/2021
ROUTE	744/160
STATE	MO
DISTRICT	SW
SHEET NO.	63
COUNTY	GREENE
JOB NO.	J8P3087D
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

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

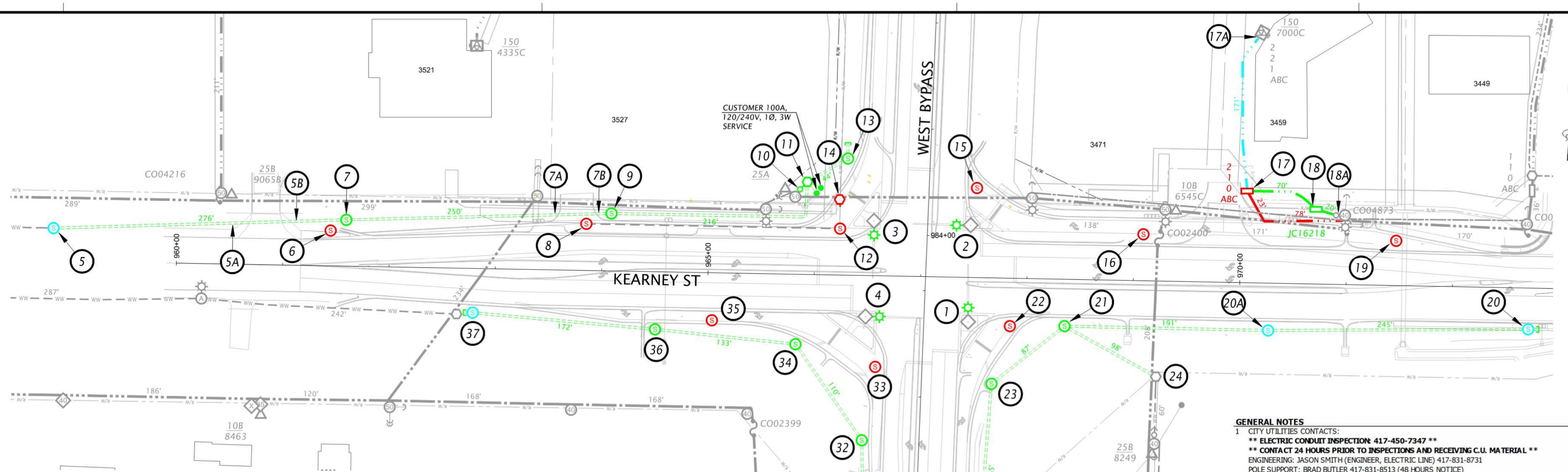
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

DITCH PROFILE SHEET
SHEET 1 OF 1

CONTRACTOR UNDERGROUND DISTRIBUTION CONSTRUCTION
E11 ~ 794846/891999 ~ UGD ~ 107000/108010

1	INSTALL:	1	EACH	LED-B3
	NOTE:	C.U. FURNISHED, CONTRACTOR INSTALLED STREETLIGHT		
2	INSTALL:	1	EACH	LED-B3
	NOTE:	C.U. FURNISHED, CONTRACTOR INSTALLED STREETLIGHT		
3	INSTALL:	1	EACH	LED-B3
	NOTE:	C.U. FURNISHED, CONTRACTOR INSTALLED STREETLIGHT		
4	INSTALL:	1	EACH	LED-B3
	NOTE:	C.U. FURNISHED, CONTRACTOR INSTALLED STREETLIGHT		
5	REMOVE:	1	EACH	STREETLIGHT FOUNDATION
	INSTALL:	1	EACH	CF24-120
		2	EACH	P224-90V
	NOTE:	INTERCEPT EXISTING CONDUIT		
5A	INSTALL:	1	EACH	2PVGV
5B	INSTALL:	1	EACH	2PVGV
6	REMOVE:	1	EACH	STREETLIGHT FOUNDATION
7	INSTALL:	1	EACH	CF24-120
		2	EACH	P224-90V
7A	INSTALL:	1	EACH	2PVGV
7B	INSTALL:	1	EACH	2PVGV
8	REMOVE:	1	EACH	STREETLIGHT FOUNDATION
9	INSTALL:	1	EACH	CF24-120
		2	EACH	P224-90V
10	INSTALL:	1	EACH	SR-2CP
11	INSTALL:	1	EACH	SP-SW
		3	EACH	P218-45V
	NOTE:	INSTALL SERVICE ELBOWS AS REQUIRED		
12	REMOVE:	1	EACH	STREETLIGHT FOUNDATION
13	INSTALL:	1	EACH	CF24-150
		2	EACH	P224-90V
		1	EACH	2P
	NOTE:	CAP AND FACE SPARE ELBOW NORTH		
14	REMOVE:	1	EACH	SP-2C
15	REMOVE:	1	EACH	STREETLIGHT FOUNDATION
16	REMOVE:	1	EACH	STREETLIGHT FOUNDATION
17	REMOVE:	1	EACH	JC3-2C
	NOTE:	COORDINATE WITH INSPECTOR PRIOR TO WORK		
18	INSTALL:	1	EACH	JC3-2C
		1	EACH	G424-90V
		3	EACH	G224-90V
	NOTE:	COORDINATE WITH INSPECTOR PRIOR TO WORK		
19	REMOVE:	1	EACH	STREETLIGHT FOUNDATION
20	REMOVE:	1	EACH	STREETLIGHT FOUNDATION
	INSTALL:	1	EACH	CF24-120
		2	EACH	P224-90V
		1	EACH	2P
	NOTE:	CAP AND FACE SPARE ELBOW EAST		
20A	REMOVE:	1	EACH	STREETLIGHT FOUNDATION
	INSTALL:	1	EACH	CF24-120
		2	EACH	P224-90V
21	INSTALL:	1	EACH	CF24-120
		3	EACH	P224-90V
22	REMOVE:	1	EACH	STREETLIGHT FOUNDATION
23	INSTALL:	1	EACH	CF24-150
		2	EACH	P224-90V
25	REMOVE:	1	EACH	STREETLIGHT FOUNDATION
26	REMOVE:	1	EACH	STREETLIGHT FOUNDATION
27	INSTALL:	1	EACH	CF24-120
		3	EACH	P224-90V
27A	INSTALL:	1	EACH	2PVGV
27B	INSTALL:	1	EACH	2PVGV
28A	INSTALL:	1	EACH	2PVGV
28B	INSTALL:	1	EACH	2PVGV
29A	INSTALL:	1	EACH	2PVGV
29B	INSTALL:	1	EACH	2PVGV
30	REMOVE:	1	EACH	SP-2C
31	INSTALL:	1	EACH	SP-SW
		3	EACH	P218-45V
32	INSTALL:	1	EACH	CF24-120
		2	EACH	P224-90V
33	REMOVE:	1	EACH	STREETLIGHT FOUNDATION
34	INSTALL:	1	EACH	CF24-150
		2	EACH	P224-90V
35	REMOVE:	1	EACH	STREETLIGHT FOUNDATION
36	INSTALL:	1	EACH	CF24-120
		2	EACH	P224-90V
37	REMOVE:	1	EACH	STREETLIGHT FOUNDATION
	INSTALL:	1	EACH	CF24-120
		2	EACH	P224-90V
		1	EACH	2P
	NOTE:	CAP AND FACE SPARE ELBOW WEST		



CONTRACTOR UNDERGROUND DISTRIBUTION CONSTRUCTION
E11 ~ 794846 ~ UGD ~ 107000

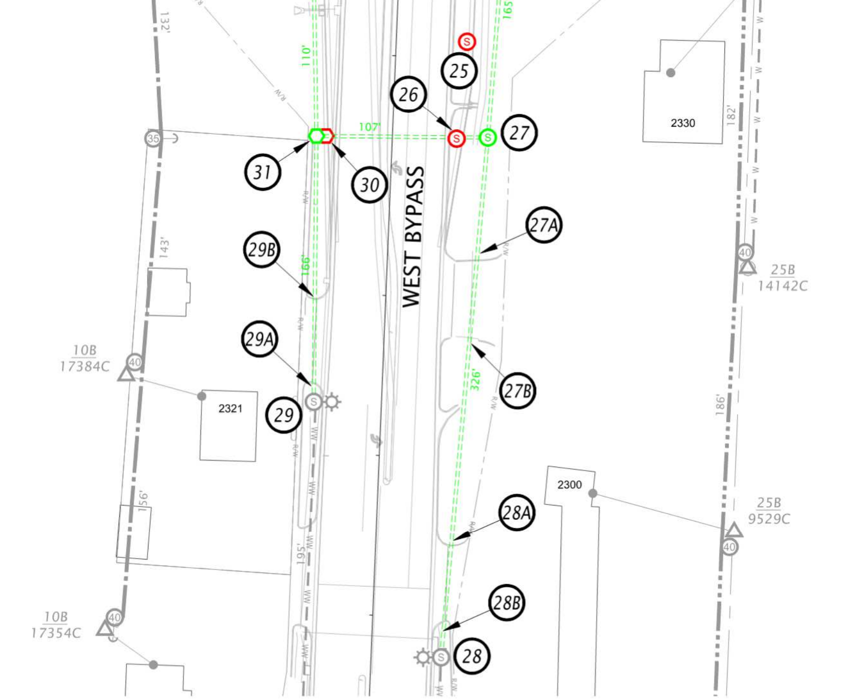
5-5A	INSTALL:	169	FEET	UT-S24
		169	FEET	PVC-2
5A-5B	INSTALL:	60	FEET	UT-R24
		60	FEET	GALV-2
5B-7	INSTALL:	47	FEET	UT-S24
		47	FEET	PVC-2
7-7A	INSTALL:	197	FEET	UT-S24
		197	FEET	PVC-2
7A-7B	INSTALL:	40	FEET	UT-R24
		40	FEET	GALV-2
7B-9	INSTALL:	13	FEET	UT-S24
		13	FEET	PVC-2
9-11	INSTALL:	216	FEET	UT-S24
		216	FEET	PVC-2
10-11	INSTALL:	7	FEET	UT-S24
		7	FEET	PVC-2
11-13	INSTALL:	44	FEET	UT-S24
		44	FEET	PVC-2
17-18	INSTALL:	67	FEET	UT-S36
		201	FEET	PVC-2
	NOTE:	COORDINATE WITH INSPECTOR PRIOR TO WORK DO NOT DIG WITHIN 5' OF EXISTING CABINET		
18-18A	INSTALL:	20	FEET	UT-S36
		20	FEET	PVC-4
	NOTE:	COORDINATE WITH INSPECTOR PRIOR TO WORK DO NOT DIG WITHIN 5' OF EXISTING RISER		
20-20A	INSTALL:	245	FEET	UT-S24
		245	FEET	PVC-2
20A-21	INSTALL:	191	FEET	UT-S24
		191	FEET	PVC-2
21-23	INSTALL:	87	FEET	UT-S24
		87	FEET	PVC-2
21-24	INSTALL:	93	FEET	UT-S24
		93	FEET	PVC-2
	NOTE:	DO NOT DIG WITHIN 5' OF EXISTING PEDESTAL		
23-27	INSTALL:	165	FEET	UT-S24
		165	FEET	PVC-2
27-27A	INSTALL:	75	FEET	UT-S24
		75	FEET	PVC-2
27A-27B	INSTALL:	54	FEET	UT-R24
		54	FEET	GALV-2
27B-28A	INSTALL:	124	FEET	UT-S24
		124	FEET	PVC-2
28A-28B	INSTALL:	54	FEET	UT-R24
		54	FEET	GALV-2
28B-28	INSTALL:	19	FEET	UT-S24
		19	FEET	PVC-2
	NOTE:	CONNECT TO EXISTING ELBOW AT WL 28		
27-31	INSTALL:	107	FEET	UT-R24
		107	FEET	PVC-2
29-29A	INSTALL:	8	FEET	UT-S24
		8	FEET	PVC-2
	NOTE:	CONNECT TO EXISTING ELBOW AT WL 29		
29A-29B	INSTALL:	60	FEET	UT-R24
		60	FEET	GALV-2
29B-31	INSTALL:	98	FEET	UT-S24
		98	FEET	PVC-2

CONTRACTOR UNDERGROUND DISTRIBUTION CONSTRUCTION
E11 ~ 794846/891999 ~ UGD ~ 107000/108010

31-32	INSTALL:	110	FEET	UT-S24
		110	FEET	PVC-2
32-34	INSTALL:	110	FEET	UT-S24
		110	FEET	PVC-2
34-36	INSTALL:	133	FEET	UT-S24
		133	FEET	PVC-2
36-37	INSTALL:	172	FEET	UT-S24
		172	FEET	PVC-2

CITY UTILITIES UNDERGROUND DISTRIBUTION CONSTRUCTION
E25 ~ 794847/892000 ~ UGD ~ 107000/108010

17	REMOVE:	1	EACH	JC3-2
		1	EACH	JC3-2C
		6	EACH	LBE-2
		3	EACH	IC-2
		3	EACH	FI-1
	INSTALL:	3	EACH	G236-90H
		60	FEET	PVC-2
	NOTE:	EXTEND AS REQUIRED TO CONNECT TO EXISTING CONDUITS		
17A	REMOVE:	3	EACH	LBE-2
	INSTALL:	3	EACH	LBE-2
18	INSTALL:	1	EACH	JC3-2
		6	EACH	LBE-2
		3	EACH	IC-2
		3	EACH	FI-1
24	INSTALL:	5	FEET	UT-S24
		5	FEET	PVC-2
		1	EACH	P224-90V
	NOTE:	STUB ELBOW NW		
17A-18A	REMOVE:	816	FEET	UG-2
17A-18	INSTALL:	723	FEET	UG-2
18-18A	INSTALL:	60	FEET	UG-2



GENERAL NOTES

1 CITY UTILITIES CONTACTS:
**** ELECTRIC CONDUIT INSPECTION: 417-450-7347 ****
**** CONTACT 24 HOURS PRIOR TO INSPECTIONS AND RECEIVING C.U. MATERIAL ****
ENGINEERING: JASON SMITH (ENGINEER, ELECTRIC LINE) 417-831-8731
POLE SUPPORT: BRAD BUTLER 417-831-8513 (48 HOURS NOTICE)

2 ALL CONTRACTOR WORK SHALL BE DONE IN COMPLIANCE WITH CU SPECIFICATIONS. CU ELECTRIC DISTRIBUTION CONSTRUCTION STANDARDS AND HOW-TO VIDEOS CAN BE FOUND AT https://www.cityutilities.net/business/construction/ OR SCAN QR CODE.

3 C.U. ELECTRIC SYMBOLS LEGEND CAN BE FOUND IN "GENERAL SPECIFICATIONS" SECTION OF C.U. ELECTRIC DISTRIBUTION CONSTRUCTION STANDARDS.

4 C.U. WILL FURNISH STREETLIGHTS (FOR SIGNAL POLES), E-LOC(S), RGS TO PVC ADAPTER(S), AND BELL END(S) FOR CONTRACTOR INSTALLATION. CONTRACTOR SHALL LOAD & TRANSPORT CITY UTILITIES MATERIAL FROM STOREROOM AT 742 N. BELCREST TO JOB SITE. FURNISHED MATERIAL FROM MATERIAL YARD IS TYPICALLY OPEN BETWEEN THE HOURS OF 9 AM AND 3 PM. CONTRACTOR SHALL FURNISH TRENCH BACKFILL MATERIAL. CONTRACTOR TO REFERENCE SIX DIGIT PROJECT NUMBERS "CONDUIT BY OTHERS" IN TITLE BLOCK AT PICKUP.

5 CONTRACTOR SHALL TRENCH AS INDICATED IN NOTES, AND/OR BORE STREETS, DRIVEWAYS, PARKING LOTS, ETC. AS REQ'D.

6 CONTRACTOR SHALL PRIMER ALL PVC-PVC CONNECTIONS PRIOR TO CEMENTING.

7 CONTRACTOR SHALL INSTALL A PULL STRING IN ALL CONDUITS TO ENSURE THE INTEGRITY OF THE CONDUIT SYSTEM.

8 IF C.U. ENCOUNTERS PROBLEMS WITH THESE FACILITIES DURING THE INITIAL INSTALLATION OF CABLES, ELBOWS, ETC., CONTRACTOR SHALL REPAIR/REPLACE CONDUIT SYSTEM, TRANSFORMER PAD, JUNCTION BOX, ETC. PER C.U. REQUIREMENTS.

9 CONTRACTOR SHALL CONTACT C.U. PRIOR TO BACKFILLING TRENCH. CONTRACTOR MAY BE REQUIRED TO EXPOSE CONDUIT INFRASTRUCTURE TO VERIFY SIZE, DEPTH, ETC. IF TRENCH IS BACKFILLED PRIOR TO INSPECTION.

10 HIGH DENSITY POLYETHYLENE CONDUIT (HDPE) SDR-11 AND FITTINGS MAY BE SUBSTITUTED FOR CONDUIT SPECIFIED IN NOTES (EXCLUDING RISERS). CONTRACTOR SHALL FURNISH ALL POLYETHYLENE CONDUIT MATERIAL AND C.U.-APPROVED FITTINGS. PIPE SHALL BE BLACK PIPE WITH RED STRIPE.

11 ALL STREETLIGHT ANCHOR BOLTS SHALL BE GALVANIZED. CONTRACTOR SHALL ENSURE THAT STREETLIGHT CONCRETE FOUNDATIONS HAVE SUFFICIENT ANCHOR BOLT LENGTH AND PROPER BOLT CIRCLE FOR POLE INSTALLATION. IF ANCHOR BOLT INSTALLATION OR CONCRETE BASE INSTALLATION IS FOUND UNACCEPTABLE BY C.U., CONTRACTOR SHALL REPAIR OR REPLACE FOUNDATION.

J8P3087D - CITY UTILITIES ELECTRIC QUANTITIES

DESCRIPTION OF BID ITEM*	UNIT	EST. QTY.
FURNISH/INSTALL 2" PVC RIGID CONDUIT (PVC-2)	FT	2524
FURNISH/INSTALL 2" GALVANIZED RIGID CONDUIT (GALV-2)	FT	375
INSTALL THREE PHASE JUNCTION CABINET AND SLEEVE (JC3-2C)	EA	1
INSTALL SECONDARY PEDESTAL W/TRAFFIC-RATED COVER (SP-SW)	EA	2
FURNISH/INSTALL SECONDARY RISER START (SR-2CP)	EA	1
DISPOSE/REMOVE STREETLIGHT FOUNDATION	EA	15
FURNISH/INSTALL STREETLIGHT CONCRETE FOUNDATION	EA	13

***SPECIAL NOTE**: CONDUIT ELBOW(S), CONDUIT COUPLINGS AND CONDUIT PLUGS ARE **NOT** INCLUDED IN THE ELECTRIC QUANTITIES BID ITEM ESTIMATE. THESE ITEMS SHALL BE CONSIDERED INCIDENTAL TO OTHER BID ITEMS. ADJUST CORRESPONDING BID PRICES FOR PEDESTAL(S), JUNCTION CABINET(S), CONDUIT OR ETC. AS NECESSARY TO COVER COST OF INCIDENTAL ITEMS.

EQUIPMENT INSTALLATION LOCATIONS

WORK LOCATION	ROUTE***	STATION	OFFSET	DESCRIPTION	GENERAL LOCATION	REMARK
5	KEARNEY	958+84.1	31.0' LT	STREETLIGHT FOUNDATION	WB KEARNEY	
7	KEARNEY	961+59.0	43.8' LT	STREETLIGHT FOUNDATION	WB KEARNEY	
9	KEARNEY	964+8.3	54.3' LT	STREETLIGHT FOUNDATION	WB KEARNEY	ENSURE NESC CLEARANCES FROM OVERHEAD ELECTRIC LINE
11	KEARNEY	965+91.9	87.4' LT	SECONDARY PEDESTAL (SP-SW)	WB KEARNEY	FLUSH WITH FINISHED GRADE
13	160	983+30.8	77.4' RT	STREETLIGHT FOUNDATION	SB WEST BYPASS(160)	
18	KEARNEY	970+70.7	70.5' LT	PRIMARY CABINET (JC3-2)	WB KEARNEY	
20	KEARNEY	972+72.1	38.8' RT	STREETLIGHT FOUNDATION	EB KEARNEY	
20A	KEARNEY	970+27.5	44.4' RT	STREETLIGHT FOUNDATION	EB KEARNEY	
21	KEARNEY	968+36.1	44.0' RT	STREETLIGHT FOUNDATION	EB KEARNEY	
23	KEARNEY	967+68.5	99.4' RT	STREETLIGHT FOUNDATION	NB WEST BYPASS(160)	
27	160_SOUTH	810+47.6	59.8 RT	STREETLIGHT FOUNDATION	NB WEST BYPASS(160)	
31	160_SOUTH	810+47.6	47.4 LT	SECONDARY PEDESTAL (SP-SW)	SB WEST BYPASS(160)	FLUSH WITH FINISHED GRADE
32	160	966+47.4	154.9' RT	STREETLIGHT FOUNDATION	SB WEST BYPASS(160)	
34	KEARNEY	965+83.4	65.7' RT	STREETLIGHT FOUNDATION	EB KEARNEY	
36	KEARNEY	964+51.1	54.1' RT	STREETLIGHT FOUNDATION	EB KEARNEY	
37	KEARNEY	962+79.5	41.5' RT	STREETLIGHT FOUNDATION	EB KEARNEY	

*** CHECK GENERAL LOCATION COLUMN TO ALIGN ANCHOR BOLT SQUARE WITH EDGE OF SHOULDER.

MISSOURI ONE CALL SYSTEM INC. 1-800-344-7483 STOP-CALL BEFORE YOU DIG!

EXISTING
INSTALL
REMOVE
REPLACE or TRANSFER
NOTE TO G.I.S. DEPT.

CITY UTILITIES ELECTRIC PLAN SHEET 1 OF 1

ELECTRIC LINE CONSTRUCTION		
1/4 SEC, SEC-TWN-RNG: SE, 5-29-22/SW, 4-29-22 NE, 8-29-22/NW, 9-29-22		☑ LOCATES REQD
CONSTRUCTION: ☐ OVERHEAD ☑ UNDERGROUND		☐ CUSTOMER TREE TRIM
MAXIMUM VOLTAGE: ☐ 0V ☐ 120V ☐ 240V ☐ 7.62kV ☑ 13.2kV ☐ 69kV ☐ 161kV ☐ 345kV		☐ CU TREE TRIM
SUB/FEEDER(S): JUN-5	HOT LINE TAG AVAILABLE: ☐	☐ CATV - WORK REQD
SUB/FEEDER(S): -	HOT LINE TAG AVAILABLE: ☐	☐ PHONE - WORK REQD
CREW LEADER:		☑ MoDOT PERMIT REQD
COMPLETION DATE:		☐ EASEMENT REQD

PROJECT NUMBERS			
WORK TYPE	OH	UG	PROJ
TRANSMISSION			
DISTRIBUTION		794847	ELOC04
		892000	ELOC04
CONDUIT (BY OTHERS)		794846	ELOC04
CONDUIT (BY OTHERS)		891999	ELOC04
OTHER			

City Utilities Connecting Our Community
301 E CENTRAL ST
SPRINGFIELD, MO 65802
417-863-9000

STATE OF MISSOURI
JASON D. SMITH
NUMBER PE-2005022158
08-05-21
PROFESSIONAL ENGINEER

ENGINEER: JASON SMITH	LICENSE NO.: PE-2005022158
DATE	8/5/2021
ROUTE 744/160	STATE MO
DISTRICT SW	SHEET NO. E1
COUNTY	GREENE
JOB NO.	J8P3087D
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)

J8P3087D KEARNEY/W BYPASS
STREETLIGHT
INFRASTRUCTURE PLAN

APPLICATION NO.: 211368	SCALE: 1" = 60'	PLOT DATE: 8-5-21
DRAWING NO.: 85613	MAP NO.: NW-E05	SHEET: 1 OF 1
DESIGNED BY: SMITH	REVIEWED/APPROVED BY: LINDSEY	

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

FINAL PLANS FOR PROPOSED

STATE HIGHWAY

GREENE COUNTY

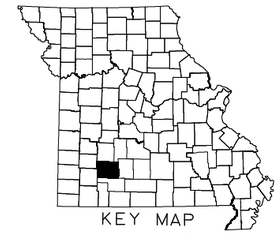
CITY OF SPRINGFIELD

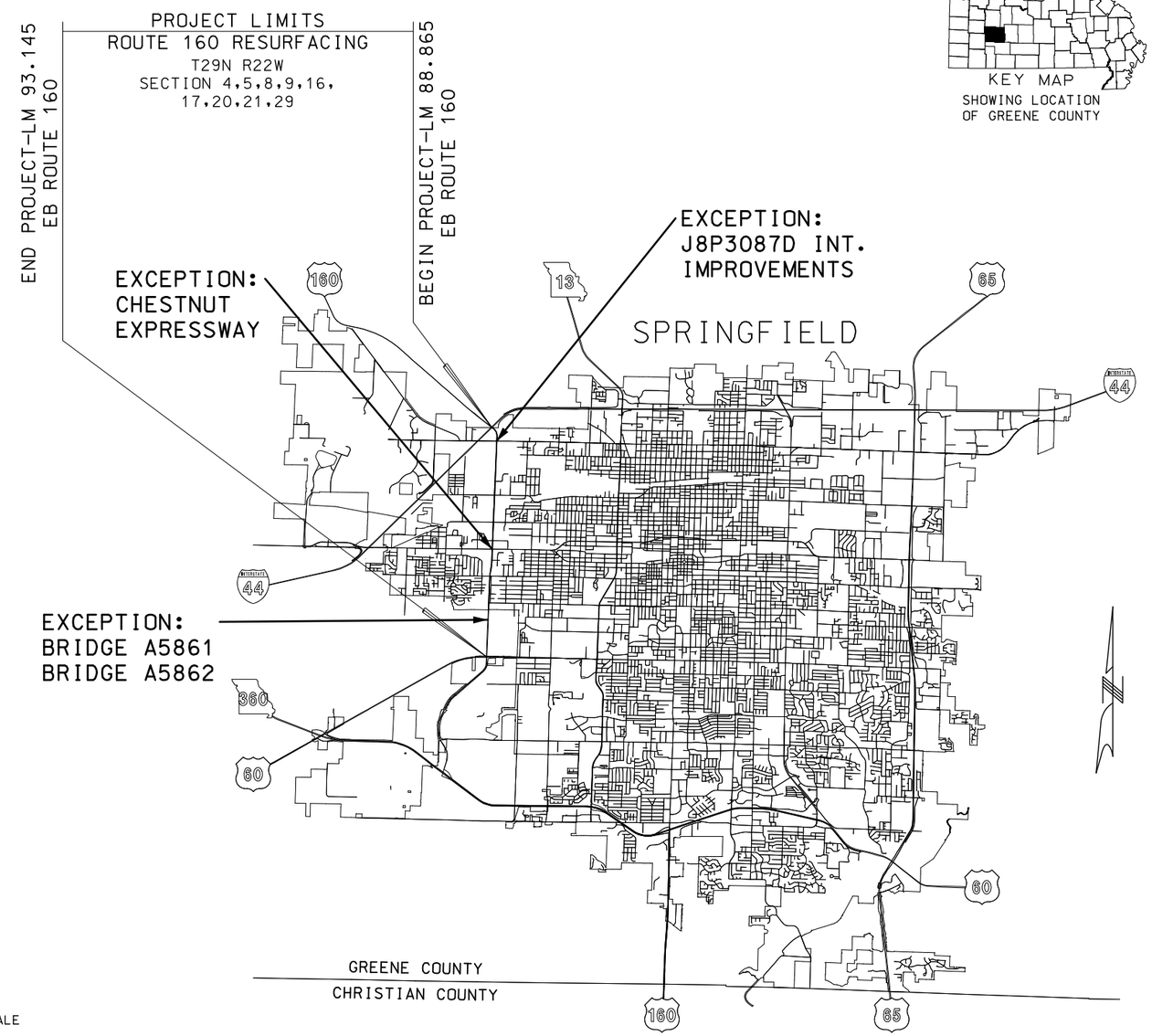
DESIGN DESIGNATION

A.A.D.T. - 2022 = 30847
A.A.D.T. - 2042 = 38560
D.H.V. = 8.39%
T = 7.96%
V = 45, 50 M.P.H.
D = EB 51% / WB 49%

FUNCTIONAL CLASSIFICATION - FREEWAY

NO NEW RIGHT OF WAY





NOT TO SCALE

THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. IT IS, THEREFORE, THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, LOCATION AND STATUS OF ANY FACILITY. SUCH VERIFICATION INCLUDES DIRECT CONTACT WITH THE LISTED UTILITIES.

CONVENTIONAL SYMBOLS

(USED IN PLANS)

	EXISTING	NEW
BUILDINGS AND STRUCTURES		
GUARD RAIL		
GUARD CABLE		
CONCRETE RIGHT-OF-WAY MARKER		
STEEL RIGHT-OF-WAY MARKER		
LOCATION SURVEY MARKER		
UTILITIES		
FIBER OPTICS	-FO-	~~FO~~
OVERHEAD CABLE TV	-OTV-	~~OTV~~
UNDERGROUND CABLE TV	-UTV-	~~UTV~~
OVERHEAD TELEPHONE	-OT-	~~OT~~
UNDERGROUND TELEPHONE	-UT-	~~UT~~
OVERHEAD POWER	-OE-	~~OE~~
UNDERGROUND POWER	-UE-	~~UE~~
SANITARY SEWER	-S-	~~S~~
STORM SEWER	-SS-	~~SS~~
GAS	-G-	~~G~~
WATER	-W-	~~W~~
MANHOLE	SAN	
FIRE HYDRANT	HYD	
WATER VALVE	WV	
WATER METER	WM	
DROP INLET	DI	
DITCH BLOCK		
GROUND MOUNTED SIGN	SIGN	
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL	PED	
FENCE		
CHAIN LINK	-V-	
WOVEN WIRE	-X-	
GATE POST		
BENCHMARK	BM	

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (2 SHEETS)	2
QUANTITIES (QU) (4 SHEETS)	3
TRAFFIC CONTROL SHEETS (TC)	4-6
SPECIAL SHEETS (SS)	7

LENGTH OF PROJECT

2020 ARAN LOG MILES

BEGINNING OF PROJECT	EB LM 88.865 WB LM 234.626	
END OF PROJECT	EB LM 93.145 WB LM 230.352	
APPARENT LENGTH	45165	FEET

EQUATIONS AND EXCEPTIONS:

J8P3087D INTERSECTION IMPROVEMENTS		
-EB LM 88.996 - 89.220	1183	FEET
-WB LM 234.279 - 234.503	1183	FEET
CHESTNUT EXPRESSWAY PAVEMENT		
-EB LM 91.128 - 91.143	79	FEET
-WB LM 232.354 - 232.369	79	FEET
BRIDGE A5862		
-EB LM 92.235 - 92.292	301	FEET
BRIDGE A5861		
-WB LM 231.204 - 231.261	301	FEET
TOTAL EXCEPTIONS	3126	FEET
NET LENGTH OF PROJECT	42039	FEET
STATE LENGTH	7.962	MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	0	ACRES

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/3/2021	
ROUTE: 160	STATE: MO
DISTRICT: SW	SHEET NO.: 1
COUNTY: GREENE	
JOB NO.: J8P3170	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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

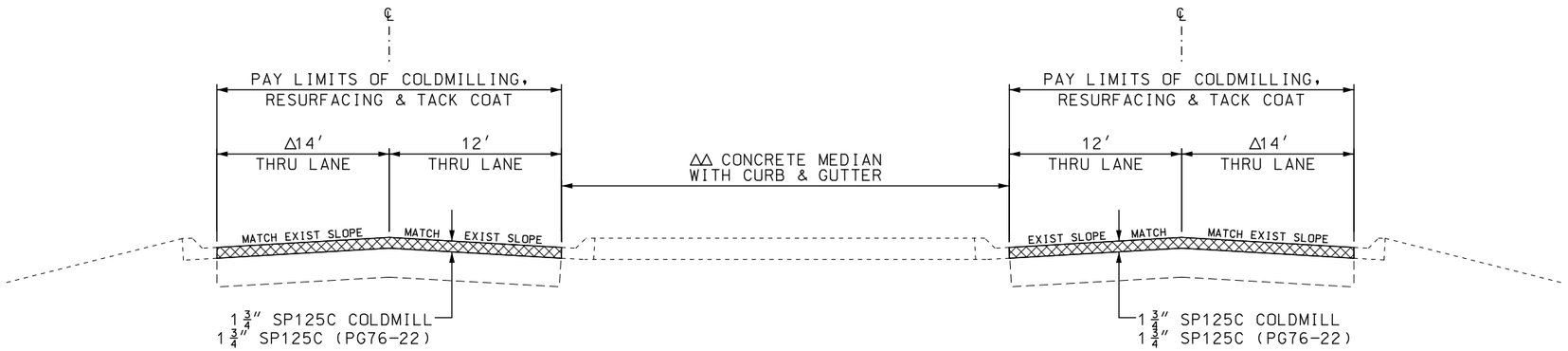
REVISED: 4-16-2020

NOTE: NO ADDITIONAL PAYMENT WILL BE MADE FOR ADDITIONAL COLDMILLING (UP TO 3") REQUIRED TO REMOVE ENTIRE TOP LIFT DUE TO DELAMINATION. THIS APPLIES TO ENTIRE PROJECT LIMITS.

SURFACE PLACEMENT - ONE PASS PER LANE

NO S.E. CORRECTION

ASPHALT FACTORS		
	COMBINED FACTOR	% AC
SP125C (PG76-22)	1.995 TONS/CY	5.2
TACK COAT		
MILLING		0.10 GAL/SY

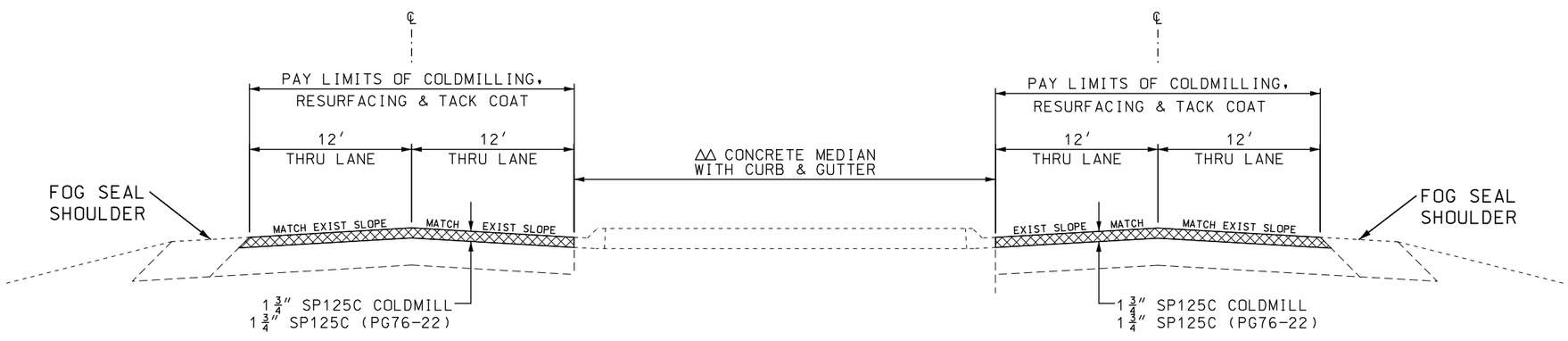


EB ROUTE 160

LOG MILE 89.220 TO LOG MILE 91.128

WB ROUTE 160

LOG MILE 232.369 TO LOG MILE 234.279



EB ROUTE 160

LOG MILE 91.143 TO LOG MILE 93.145

WB ROUTE 160

LOG MILE 230.352 TO LOG MILE 232.350

△ 14′ SHARED LANE FOR TRUCKS

△△ VARIABLE WIDTH 9.75″ RAISED MEDIAN STRIP TRANSITIONS FROM 14′ TO 4′ AT TURN LANES W/ CURB & GUTTER

TYPICAL SECTIONS
SHEET 1 OF 2

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

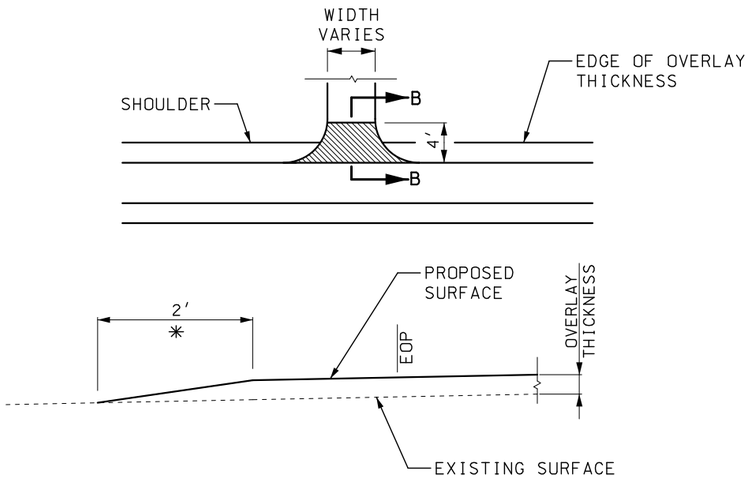
DATE PREPARED	8/3/2021
ROUTE	160
STATE	MO
DISTRICT	SW
SHEET NO.	2
COUNTY	GREENE
JOB NO.	J8P3170
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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

REVISED: 4-16-2020



ASPHALT & CONCRETE ENTRANCES

SECTION B-B

TYPICAL ENTRANCE - EXIST/NEW SHOULDER
(FIELD, PRIVATE OR COUNTY ROAD)
*TAPER AT 1:1 FOR FIELD ENTRANCE

NOTES: DO NOT BUILD 2' MODIFIED A3 SHOULDERS ACROSS CONCRETE OR ASPHALT ENTRANCES, STREETS OR ROADS.

4 TONS GRAVEL A OR CRUSHED STONE B CALCULATED PER ENTRANCE.

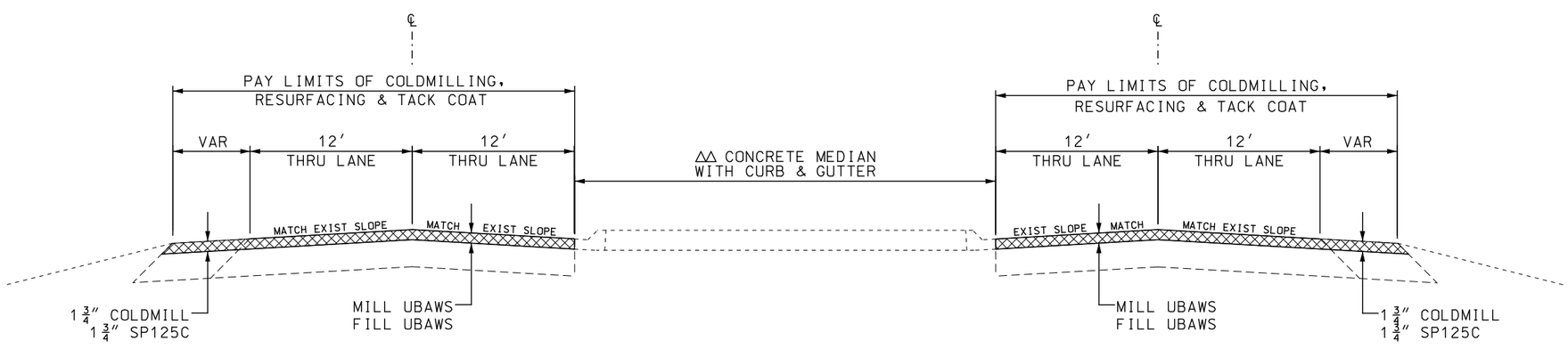
6 TONS CALCULATED PER COUNTY ROAD.

NOTE: NO ADDITIONAL PAYMENT WILL BE MADE FOR ADDITIONAL COLDMILLING (UP TO 3") REQUIRED TO REMOVE ENTIRE TOP LIFT DUE TO DELAMINATION. THIS APPLIES TO ENTIRE PROJECT LIMITS.

SURFACE PLACEMENT - ONE PASS PER LANE

NO S.E. CORRECTION

ASPHALT FACTORS		
	COMBINED FACTOR	% AC
SP125C (PG76-22)	1.995 TONS/CY	5.2
TACK COAT		
MILLING		0.10 GAL/SY



EB ROUTE 160

LOG MILE 88.865 TO LOG MILE 88.996

WB ROUTE 160

LOG MILE 234.505 TO LOG MILE 234.626

TYPICAL SECTIONS
SHEET 2 OF 2

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/3/2021	
ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	2
COUNTY	
GREENE	
JOB NO.	
J8P3170	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

US 160 EASTBOUND PAVEMENT RESURFACING

BEGIN LOG MILE	END LOG MILE	LENGTH (FT)	LT TURN LANE WIDTH (FT)	MAINLINE WIDTH (FT)	RT TURN LANE WIDTH (FT)	OT SHLDR WIDTH (FT)	COLD MILLING 3" THICK OR LESS (SQYD)	TACK 0.1 GAL/SY (GAL)	1.75"SP125C (PG76-22) 1.995 TONS/CY (TONS)	FOG SEAL SHLDR 0.1 GAL/SY** (GAL)	TYPE-C UBAWS (SY)	REMARKS
88.865	88.996	692		24		10	1845.33	185	24.50		1501.0	UBAWS MAINLINE & SP125C SHOULDER
88.996	89.220	1183										EXCEPT OUT INTERSECTION IMPROVEMENTS ON J8P3087D
89.220	91.128	10074		26			29102.67	2910	2822.35			MAINLINE RESURFACE
91.128	91.143	79										EXCEPT OUT CHESTNUT EXPRESSWAY
91.143	92.235	5766		24		10	15376.00	1538	1491.15	640.7		MAINLINE & SHOULDER RESURFACE
92.235	92.292	301										EXCEPT OUT BRIDGE A5862
92.292	93.145	4504		24		10	12010.67	1201	1164.78	500.4		MAINLINE & SHOULDER RESURFACE
US 160 EASTBOUND TURN LANE QUANTITIES												
88.870	88.920	264			12		352.00	35.2			352.0	I-44 RAMP TO US160 ACCEL LANE
88.920	88.939	100			VAR		7.41	0.7			7.4	I-44 RAMP TO US160 ACCEL LANE TAPER
89.408	89.424	84	VAR				6.22	0.6	0.60			BERRY TRACTOR DECEL LANE TAPER
89.424	89.485	322	12				429.33	42.9	41.64			BERRY TRACTOR DECEL LANE
89.523	89.551	148	VAR				10.96	1.1	1.06			CALHOUN TRUCKING DECEL LANE TAPER
89.551	89.618	354	12				472.00	47.2	45.77			CALHOUN TRUCKING DECEL LANE
89.660	89.683	121	VAR				8.96	0.9	0.87			TRANSPORT GRAPHICS DECEL LANE TAPER
89.683	89.741	306	12				408.00	40.8	39.57			TRANSPORT GRAPHICS DECEL LANE
89.780	89.805	132	VAR				9.78	1.0	0.95			COMMERCIAL ST DECEL LANE TAPER
89.805	89.865	317	12				422.67	42.3	40.99			COMMERCIAL ST DECEL LANE
89.909	89.934	132	VAR				9.78	1.0	0.95			BAYLESS SALVAGE DECEL LANE TAPER
89.934	89.995	322	12				429.33	42.9	41.64			BAYLESS SALVAGE DECEL LANE
90.032	90.060	148	VAR				10.96	1.1	1.06			EB DIVISION ST DECEL LANE TAPER
90.060	90.125	343	12				457.33	45.7	44.35			EB DIVISION ST DECEL LANE
90.055	90.076	111			VAR		8.22	0.8	0.80			WB DIVISION ST DECEL LANE TAPER
90.076	90.112	190			12		253.33	25.3	24.57			WB DIVISION ST DECEL LANE
90.126	90.145	100			VAR		7.41	0.7	0.72			EB DIVISION ST TO US160 ACCEL LANE
90.184	90.209	132	VAR				9.78	1.0	0.95			DEMORE ENT. DECEL LANE TAPER
90.209	90.263	285	12				380.00	38.0	36.85			DEMORE ENT. DECEL LANE
90.435	90.458	121	VAR				8.96	0.9	0.87			P&E ENT. DECEL LANE TAPER
90.458	90.517	312	12				416.00	41.6	40.34			P&E ENT. DECEL LANE
90.546	90.569	121	VAR				8.96	0.9	0.87			EB NICHOLS ST DECEL LANE TAPER
90.569	90.628	312	12				416.00	41.6	40.34			EB NICHOLS ST DECEL LANE
90.732	90.750	95	VAR				7.04	0.7	0.68			SAFETY-KLEEN DECEL LANE TAPER
90.750	90.811	322	12				429.33	42.9	41.64			SAFETY-KLEEN DECEL LANE
90.893	90.913	106	VAR				7.85	0.8	0.76			EB WADDILL ST DECEL LANE TAPER
90.913	90.975	327	12				436.00	43.6	42.28			EB WADDILL ST DECEL LANE
91.012	91.063	269	VAR				19.93	2.0	1.93			EB CHESTNUT EXPY DECEL LANE TAPER
91.063	91.137	391	24				1042.67	104.3	101.12			EB CHESTNUT EXPY DECEL LANES
91.073	91.083	53			VAR		3.93	0.4	0.38			WB CHESTNUT EXPY DECEL LANE TAPER
91.083	91.115	169			12		225.33	22.5	21.85			WB CHESTNUT EXPY DECEL LANE
91.139	91.158	100	VAR				7.41	0.7	0.72			EB CHESTNUT TO US160 ACCEL LANE
91.262	91.281	100	VAR				7.41	0.7	0.72			EB COLLEGE ST DECEL LANE TAPER
91.281	91.338	301	12				401.33	40.1	38.92			EB COLLEGE ST DECEL LANE
91.561	91.585	127	VAR				9.41	0.9	0.91			EB MOUNT VERNON ST DECEL LANE TAPER
91.585	91.637	275	12				366.67	36.7	35.56			EB MOUNT VERNON ST DECEL LANE
91.718	91.742	127			VAR		9.41	0.9	0.91			WB STATE ST DECEL LANE TAPER
91.742	91.779	195			12		260.00	26.0	25.21			WB STATE ST DECEL LANE
92.060	92.081	111	VAR				8.22	0.8	0.80			EB GRAND ST DECEL LANE TAPER
92.081	92.137	296	12				394.67	39.5	38.27			EB GRAND ST DECEL LANE
92.315	92.333	95	VAR				7.04	0.7	0.68			EB FR142 DECEL LANE TAPER
92.333	92.389	296	12				394.67	39.5	38.27			EB FR142 DECEL LANE
92.568	92.593	132	VAR				9.78	1.0	0.95			EB FR146 DECEL LANE TAPER
92.593	92.649	296	12				394.67	39.5	38.27			EB FR146 DECEL LANE
92.993	93.040	248	VAR				18.37	1.8	1.78			EB SUNSHINE ST DECEL LANE TAPER
93.040	93.132	486	24				1296.00	129.6	125.69			EB SUNSHINE ST DECEL LANES
93.040	93.069	153			VAR		11.33	1.1	1.10			WB SUNSHINE ST DECEL LANE TAPER
93.069	93.131	327			12		436.00	43.6	42.28			WB SUNSHINE ST DECEL LANE
88.865	93.145	22598							320.99			75 TONS/MILE FOR IRREGULARITIES
**APPLY SHOULDER FOG SEAL AT 0.2 GAL/SY DILLUTED TO 50%						SUBTOTAL	69082.53	6908.50	6831.2	1141.1	1860.40	
SEE WB PAVING FOR PROJECT PAVING TOTALS												

SUMMARY OF QUANTITIES
SHEET 1 OF 4

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/5/2021

ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	3

COUNTY
GREENE

JOB NO.
J8P3170

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

US 160 WESTBOUND PAVEMENT RESURFACING

BEGIN LOG MILE	END LOG MILE	LENGTH (FT)	LT TURN LANE WIDTH (FT)	MAINLINE WIDTH (FT)	RT TURN LANE WIDTH (FT)	OT SHLDR WIDTH (FT)	COLD MILLING 3" THICK OR LESS (SQYD)	TACK 0.1 GAL/SY (GAL)	1.75"SP125C (PG76-22) 1.995 TONS/CY (TONS)	FOG SEAL 0.1 GAL/SY** (GAL)	TYPE-C UBAWS (SY)	REMARKS
230.352	231.204	4499		24		10	11997.3	1200	1163.49	499.9		MAINLINE & SHOULDER RESURFACE
231.204	231.261	301										EXCEPT OUT BRIDGE A5681
231.261	232.350	5750		24		10	15333.3	1533	1487.01	638.9		MAINLINE & SHOULDER RESURFACE
232.354	232.369	79										EXCEPT OUT CHESTNUT EXPRESSWAY
232.369	234.279	10085		26			29134.4	2913	2825.43			MAINLINE RESURFACE
234.279	234.503	1183										EXCEPT OUT INTERSECTION IMPROVEMENTS ON J8P3087D
234.505	234.626	639		24		10	1704.0	170			2104.0	UBAWS MAINLINE & SHOULDER
US 160 WESTBOUND TURN LANE QUANTITIES												
230.356	230.385	153			12		204.0	20.4	19.78			SUNSHINE TO US160 ACCEL LANE
230.385	230.412	143			VAR		10.6	1.1	1.03			SUNSHINE TO US160 ACCEL LANE TAPER
230.789	230.804	79	VAR				5.9	0.6	0.57			WB FR146 DECEL LANE TAPER
230.804	230.840	190	12				253.3	25.3	24.56			WB FR146 DECEL LANE
231.041	231.063	116	VAR				8.6	0.9	0.83			WB FR142 DECEL LANE TAPER
231.063	231.099	190	12				253.3	25.3	24.56			WB FR142 DECEL LANE
231.793	231.816	121	VAR				9.0	0.9	0.87			WB MOUNT VERNON ST DECEL LANE TAPER
231.816	231.852	190	12				253.3	25.3	24.56			WB MOUNT VERNON ST DECEL LANE
232.112	232.129	90	VAR				6.7	0.7	0.65			EB COLLEGE ST DECEL LANE TAPER
232.129	232.186	301	12				401.3	40.1	38.92			EB COLLEGE ST DECEL LANE
232.242	232.259	90			VAR		6.7	0.7	0.65			EB CHESTNUT EXPY DECEL LANE TAPER
232.259	232.350	480			12		640.0	64.0	62.07			EB CHESTNUT EXPY DECEL LANE
232.255	232.303	253	VAR				37.5	3.8	3.64			WB CHESTNUT EXPY DECEL LANE TAPER
232.303	232.354	269	24				717.3	71.7	69.56			WB CHESTNUT EXPY DECEL LANE
232.382	232.400	95	VAR				7.0	0.7	0.68			WB CHESTNUT TO US160 ACCEL LANE
232.458	232.477	100	VAR				7.4	0.7	0.72			WB WADDILL ST DECEL LANE TAPER
232.477	232.513	190	12				253.3	25.3	24.56			WB WADDILL ST DECEL LANE
232.621	232.639	95	VAR				7.0	0.7	0.68			GRIMCO/SCOOTER SHOP DECEL LANE TAPER
232.639	232.677	201	12				268.0	26.8	25.99			GRIMCO/SCOOTER SHOP DECEL LANE
232.801	232.822	111	VAR				8.2	0.8	0.80			WB NICHOLS ST DECEL LANE TAPER
232.822	232.861	206	12				274.7	27.5	26.64			WB NICHOLS ST DECEL LANE
232.927	232.946	100	VAR				7.4	0.7	0.72			RENSCH PROPERTY US160 ENTRANCE DECEL LANE TAPER
232.946	232.971	132	12				176.0	17.6	17.07			RENSCH PROPERTY US160 ENTRANCE DECEL LANE
233.180	233.197	90	VAR				6.7	0.7	0.65			AMERICAN FLEET INC. DECEL LANE TAPER
233.197	233.226	153	12				204.0	20.4	19.78			AMERICAN FLEET INC. DECEL LANE
233.284	233.305	111	VAR				8.2	0.8	0.80			WB DIVISION ST DECEL LANE TAPER
233.305	233.370	343	12				457.3	45.7	44.35			WB DIVISION ST DECEL LANE
233.313	233.337	127			VAR		9.4	0.9	0.91			EB DIVISION ST DECEL LANE TAPER
233.337	233.369	169			12		225.3	22.5	21.85			EB DIVISION ST DECEL LANE
233.388	233.408	106	VAR				7.9	0.8	0.77			WB DIVISION ST TO US160 ACCEL LANE
233.435	233.456	111	VAR				8.2	0.8	0.80			GO CLASSIC DECEL LANE TAPER
233.456	233.494	201	12				268.0	26.8	25.99			GO CLASSIC DECEL LANE
233.560	233.580	106	VAR				7.9	0.8	0.77			PICK-AND-PULL DECEL LANE TAPER
233.580	233.625	238	12				317.3	31.7	30.77			PICK-AND-PULL DECEL LANE
233.687	233.710	121	VAR				9.0	0.9	0.87			WEST BYPASS LLC DECEL LANE TAPER
233.710	233.749	206	12				274.7	27.5	26.64			WEST BYPASS LLC DECEL LANE
233.813	233.830	90	VAR				6.7	0.7	0.65			WEST BYPASS LLC DECEL LANE TAPER
233.830	233.872	222	12				296.0	29.6	28.71			WEST BYPASS LLC DECEL LANE
233.946	233.966	106	VAR				7.9	0.8	0.77			WEST BYPASS LLC DECEL LANE TAPER
233.966	234.006	211	12				281.3	28.1	27.28			WEST BYPASS LLC DECEL LANE
234.212	234.236	127	VAR				9.4	0.9	0.91			SMITH COMMERCIAL ENT LP DECEL LANE TAPER
234.236	234.282	243	12				324.0	32.4	31.42			SMITH COMMERCIAL ENT LP DECEL LANE
234.518	234.546	148			VAR		11.0	1.1			11.0	US160 TO I44 DECEL LANE TAPER
234.546	234.626	422			12		562.7	56.3			562.7	US160 TO I44 DECEL LANE
230.352	234.626	22567							320.55			75 TONS/MILE FOR IRREGULARITIES
						WB SUBTOTAL	65288.4	6527.8	6431.3	1138.8	2677.7	
						EB SUBTOTAL	69082.5	6908.5	6831.20	1141.1	1860.4	
						TOTAL	134370.9	13436.3	13262.50	2279.9	4538.1	
** APPLY SHOULDER FOG SEAL AT 0.2 GAL/SY WITH 50% DILLUTION						USE	134371	13436	13262.5	2280	4538	

SUMMARY OF QUANTITIES
SHEET 2 OF 4

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/5/2021

ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	3

COUNTY
GREENE

JOB NO.
J8P3170

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

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

MGS GUARDRAIL

BEGIN LOG MILE	END LOG MILE	LOCATION	REMOVALS (FT)	SHAPING SLOPES CLASS III (STA)	MASH END TERMINAL (EA)	MGS END ANCHOR (EA)	BRIDGE APPROACH TRANSITION (EA)	MGS GUARDRAIL 8′ POSTS 6′3″ SPACING (LF)	REMARKS
EASTBOUND									
91.280	91.320	RT	211	2.1	1	1		162.5	SLOPE PROTECTION AFTER MCDONALD'S ENTRANCE
91.516	91.615	RT	523	5.2	1	1		475	SLOPE PROTECTION BEFORE MOUNT VERNON ST
92.135	92.231	RT	507	5.1	1		1	425	BEFORE BRIDGE A5861
92.266	92.287	RT	111	1.1	1		1	25	AFTER BRIDGE A5861
WESTBOUND									
231.169	231.219	RT	264	2.6	1		1	187.5	BEFORE BRIDGE A5862
231.258	231.360	RT	539	5.4	1		1	462.5	AFTER BRIDGE A5862
231.874	231.935	RT	322	3.2	1	1		275	SLOPE PROTECTION AFTER MOUNT VERNON ST
232.823	232.850	RT	143	1.4	1	1		87.5	DITCH PROTECTION BEFORE NICHOLS ST
		TOTAL	2,620	26.1	8	4	4	2,100.0	
		USE	SEE REMOVALS	26	8	4	4	2,100	

REMOVAL OF IMPROVEMENTS PAID AS LUMP SUM, BUT SHOWN IN LINEAR FEET FOR CLARITY
EROSION CONTROL AND SEEDING INCIDENTAL TO SHAPING SLOPES CLASS III

CONTRACTOR FURNISHED SURVEYING AND STAKING

1 LUMP SUM

MOBILIZATION

1 LUMP SUM

REMOVAL OF IMPROVEMENTS

REMARKS

2620 LF GUARDRAIL

1 LUMP SUM

PERMANENT AGGREGATE EDGE TREATMENT

BEGIN LOG MILE	END LOG MILE	LOCATION	PAVEMENT EDGE TREATMENT (LF)	MC-800 PRIME 0.1 GAL/SY (GAL)	REMARKS
88.865	88.996	EASTBOUND	691.7	15.0	TRIANGLE 2′ WIDE 4″ TALL
91.143	92.235	EASTBOUND	5765.8	128.0	TRIANGLE 2′ WIDE 4″ TALL
92.292	93.145	EASTBOUND	4503.8	100.0	TRIANGLE 2′ WIDE 4″ TALL
230.352	231.204	WESTBOUND	4498.6	100.0	TRIANGLE 2′ WIDE 4″ TALL
231.261	232.350	WESTBOUND	5749.9	128.0	TRIANGLE 2′ WIDE 4″ TALL
234.505	234.626	WESTBOUND	638.9	14.0	TRIANGLE 2′ WIDE 4″ TALL
		TOTAL	21848.7	485.0	
		USE	21849	485	

SEE PERMANENT AGGREGATE EDGE TREATMENT JSP
AGGREGATE ESTIMATED AT 1.84 TONS PER CUBIC YARD

RADAR DETECTION

LOG MILE	INTERSECTION (LUMP SUM)	REMARKS/LOCATION
EASTBOUND		
90.628	1	US160 @ NICHOLS STREET
91.128	1	US160 @ CHESTNUT EXPRESSWAY
91.633	1	US160 @ MOUNT VERNON STREET
93.143	1	US160 @ SUNSHINE STREET
TOTAL	4	

HIGH BUILD WATERBORNE PAVEMENT MARKING PAINT, TYPE L BEADS

BEGIN LOG MILE	END LOG MILE	LENGTH (FT)	6″ WHITE TYPE L (LF)	6″ YELLOW TYPE L (LF)	TYPE 2 LT/RT ARROW (EA)	12″ STOP BAR (LF)	REMARKS
88.865	88.996	692	865.0	692.0		24	EASTBOUND MAINLINE STRIPING
89.220	91.128	10074	2518.5	180.0		72	EASTBOUND MAINLINE STRIPING
91.143	93.145	10571	13213.8			48	EASTBOUND MAINLINE STRIPING
230.350	232.350	10560	13200.0			48	WESTBOUND MAINLINE STRIPING
232.369	234.279	10085	2521.3	180.0		48	WESTBOUND MAINLINE STRIPING
234.505	234.626	639	639.0	639.0		24	WESTBOUND MAINLINE STRIPING
VAR	VAR	6167	6167.0		51	84	EASTBOUND TURN LANES
VAR	VAR	4954	4954.0		47	60	WESTBOUND TURN LANES
		TOTAL	44078.6	1691.0	98	408	
		USE	44079	1691	98	408	

SUMMARY OF QUANTITIES
SHEET 3 OF 4

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/5/2021

ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	3

COUNTY: GREENE
JOB NO.: J8P3170
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

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

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

EFFECTIVE: 04-01-2021

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
WARNING SIGNS								
W01-1L	48X48	16.00						TURN (SYMBOL LEFT ARROW)
W01-1R	48X48	16.00						TURN (SYMBOL RIGHT ARROW)
W01-2L	48X48	16.00						CURVE (SYMBOL LEFT ARROW)
W01-2R	48X48	16.00						CURVE (SYMBOL RIGHT ARROW)
W01-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT ARROW)
W01-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
W01-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
W01-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
W01-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
W01-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
W01-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
W01-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
W01-8	18X24	3.00						CHEVRON (SYMBOL)
W01-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
W03-1	48X48	16.00						STOP AHEAD (SYMBOL)
W03-2	48X48	16.00						YIELD AHEAD (SYMBOL)
W03-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
W03-4	48X48	16.00	10	160.00				BE PREPARED TO STOP
W03-5	48X48	16.00						SPEED LIMIT AHEAD
W04-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
W04-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
W04-1aL	48X48	16.00						MERGE (ARROW SYMBOL)
W04-1aR	48X48	16.00						MERGE (ARROW SYMBOL)
W05-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS
W05-3	48X48	16.00						ONE LANE BRIDGE
W05-5	48X48	16.00						NARROW LANES
W06-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
W06-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
W06-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
W07-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
W08-1	48X48	16.00						BUMP
W08-2	48X48	16.00						DIP
W08-3	48X48	16.00						PAVEMENT ENDS
W08-4	48X48	16.00						SOFT SHOULDER
W08-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
W08-6	48X48	16.00						TRUCK CROSSING (WITH FLAGS)
W08-6c	48X48	16.00						TRUCK ENTRANCE
W08-7	36X36	9.00						LOOSE GRAVEL
W08-7a	36X36	9.00						FRESH OIL/LOOSE GRAVEL
W08-9	48X48	16.00						LOW SHOULDER
W08-11	48X48	16.00						UNEVEN LANES
W08-12	48X48	16.00						NO CENTER LINE
W08-15	48X48	16.00						GROOVED PAVEMENT
W08-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
W08-17	48X48	16.00						SHOULDER DROP-OFF (SYMBOL)
W08-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
W012-1	24X24	4.00	2	8.00				DOUBLE DOWN ARROW (SYMBOL)
W012-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
W012-2X	24X18	3.00						LOW CLEARANCE (PLAQUE)
W012-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
W012-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
W012-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
W013-1	30X30	6.25						ADVISORY SPEED (PLAQUE)
W016-2	30X24	5.00						XXX FEET (PLAQUE)
W016-3	30X24	5.00						X MILE (PLAQUE)
W020-1	48X48	16.00	28	448.00				ROAD/BRIDGE/RAMP WORK AHEAD
W020-2	48X48	16.00	10	160.00				DETOUR AHEAD
W020-3	48X48	16.00						ROAD CLOSED AHEAD
W020-4	48X48	16.00						ONE LANE ROAD AHEAD
W020-5	48X48	16.00	4	64.00				RIGHT/CENTER/LEFT LANE CLOSED AHEAD
W020-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
W020-6a	48X48	16.00	8	128.00				RIGHT/CENTER/LEFT LANE CLOSED
W020-7a	48X48	16.00						FLAGGER (SYMBOL, WITH FLAGS)
W021-2	36X36	9.00						FRESH OIL
W021-5	48X48	16.00						SHOULDER WORK AHEAD
W022-1	48X48	16.00						BLASTING ZONE AHEAD
W022-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
W022-3	42X36	10.50						END BLASTING ZONE
G022-1	21X15	2.19	2	4.38				WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00						GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
G020-1	60X24	10.00	4	40.00				ROAD WORK NEXT XX MILES
G020-2	48X24	8.00	2	16.00				END ROAD WORK
G020-4	36X18	4.50						PILOT CAR FOLLOW ME
G020-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW
G020-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW
G020-5aP	36X24	6.00						WORK ZONE (PLAQUE)
M04-8a	24X18	3.00						END DETOUR
M04-9L	48X36	12.00						DETOUR (LEFT ARROW)
M04-9R	48X36	12.00						DETOUR (RIGHT ARROW)
M04-9P	48X12	4.00						STREET NAME (PLAQUE)
M04-10L	48X18	6.00						DETOUR (ARROW LEFT)
M04-10R	48X18	6.00						DETOUR (ARROW RIGHT)
REGULATORY SIGNS								
R1-1	48X48	13.25						STOP
R1-2	48TRI.	6.93						YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00	2	24.00				SPEED LIMIT 50
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25	8	50.00				LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25						RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00						SIDEWALK CLOSED
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00						STOP HERE ON RED (45° ARROW)
R11-2	48X30	10.00						ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50						ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00						FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00						POINT OF PRESENCE
CONST-5	96X48	32.00	2	64.00				POINT OF PRESENCE
CONST-7	48X24	8.00						RATE OUR WORK ZONE
CONST-7	72X36	18.00	2	36.00				RATE OUR WORK ZONE
CONST-8	48X36	12.00	4	48.00				WORK ZONE NO PHONE ZONE

	TOTAL
616-10.05 CONSTRUCTION SIGNS	1251
616-10.10 RELOCATED SIGNS	0

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6123000A	2	TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)
6161008	4	ADVANCED WARNING RAIL SYSTEM
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161025	100	CHANNELIZER (TRIM LINE)
6161030	2	TYPE III MOVEABLE BARRICADE
6161033		DIRECTION INDICATOR BARRICADE
6161040	2	FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161051		WARNING LIGHT, TYPE A
6161052		WARNING LIGHT, TYPE B
6161053		WARNING LIGHT, TYPE C
6161055		SEQUENTIAL FLASHING WARNING LIGHT
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A		CHANGEABLE MESSAGE SIGN W/O COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6161099	2	CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
6162004		TEMPORARY SHORT-TERM RUMBLE STRIPS
6173600D		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED
6173602B		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED
6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

SUMMARY OF QUANTITIES
SHEET 4 OF 4

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/5/2021
ROUTE 160 | STATE MO
DISTRICT SW | SHEET NO. 3
COUNTY GREENE
JOB NO. J8P3170
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DESCRIPTION | DATE

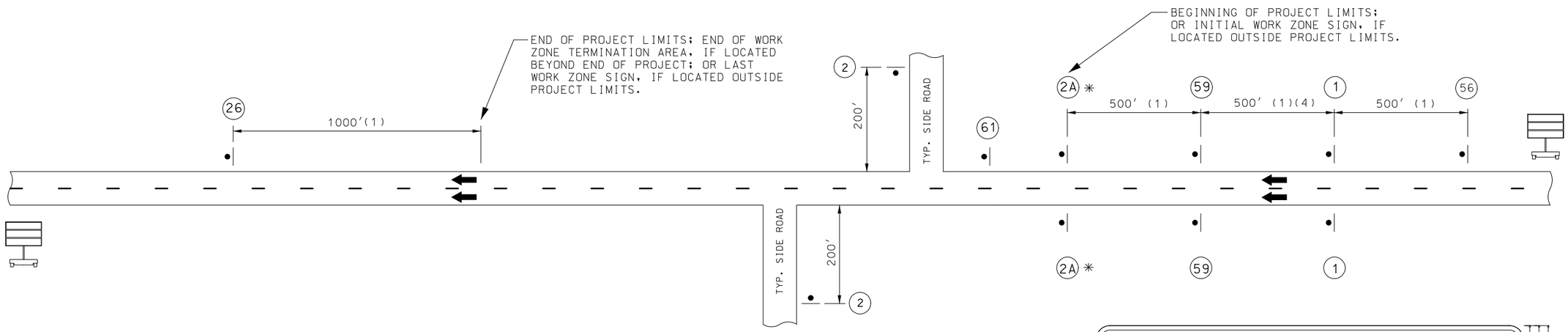
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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

REVISED: 6-4-2021

GENERAL NOTES:

1. ANY EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL SIGNING SHALL BE COMPLETELY COVERED OR REMOVED.
2. TEMPORARY SIGNING SHOWN IS FOR WORK ON ONE SIDE OF THE ROAD. FOR WORK ON THE OTHER SIDE, REVERSE ORDER OF THE SIGNS AND CHANNELIZERS.
3. SIGNING SHOWN SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
4. ALTERNATE TRAFFIC CONTROL MAY BE USED AS NEEDED AT THE APPROVAL OF THE ENGINEER.
5. REFER TO STANDARD DRAWING 616.10, 619.10, AND 620.10 FOR ADDITIONAL DETAILS AND 903.03 FOR SIGN AND SIGN MOUNTING REQUIREMENTS.
6. SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTERED WITHIN THE NEXT 1/2 MILE.
7. TEMPORARY SPEED LIMIT SIGNS SHALL BE COVERED OR REMOVED WHEN THE CONDITIONS REQUIRING REDUCED SPEEDS DO NOT EXIST.
8. NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, CONSTRUCTION SIGNS, OR FLASHING ARROW PANEL.
9. ALL SIGNS, EXCEPT "RATE OUR WORK ZONES" SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING PROPER TRAFFIC CONTROL SETUPS THROUGHOUT CONSTRUCTION AS DESCRIBED IN THESE PLANS OR AS APPROVED BY THE ENGINEER.
11. WHERE MINIMUM LANE WIDTHS CANNOT BE ACHIEVED ON THE SIDE STREETS, THE CONTRACTOR SHALL CLOSE HALF OF THE APPROACH AND POSITION A FLAGGER AT EACH END OF THE WORK AREA. LOCATION TO BE DETERMINED BY THE ENGINEER. ADVANCE FLAGGER SIGNING SHALL BE INSTALLED AS OUTLINED IN THE MUTCD.
12. THE CONTRACTOR SHALL MAINTAIN PUBLIC ACCESS TO ALL BUSINESSES AND STREETS. NO STREET OR ENTRANCE SHALL BE COMPLETELY BLOCKED.
13. SPACING & DISTANCES OF TRAFFIC CONTROL DEVICES ARE APPROXIMATE. THE EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD & APPROVED BY THE ENGINEER.
14. ADJUST ADVANCE WARNING SIGN SPACING TO AVOID SIGN PLACEMENT WITHIN THE LIMITS OF THE RAILROAD RIGHT OF WAY.
15. TRAFFIC CONTROL SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).



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

(2) SIGN CONST-7-72 IS PLACED 500 FEET BEFORE THE BEGINNING OF PROJECT LIMITS OR THE ROAD WORK AHEAD SIGN OR ROAD WORK NEXT 5 MILES SIGN OR WORK ZONE NO PONE ZONE SIGN, IF USED, WHEN THESE SIGNS ARE LOCATED OUTSIDE THE PROJECT LIMITS.

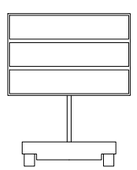
(3) CONST-5-96 SIGN IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS. IF A VISIBLE LOCATION WITHIN THE PROJECT IS NOT AVAILABLE, THE SIGN MAY BE PLACED 500 FEET BEFORE SIGN CONST-7-72.

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

(5) CMS PLACEMENT SHALL BE APPROVED BY THE ENGINEER.

TYPICAL BEGINNING AND END OF PROJECT

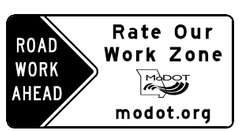
(DIVIDED HIGHWAY)



CMS (5)

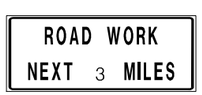
CONST-8-48 (4)

59



CONST-7-72 (2)

56

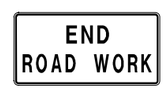


GO20-1

1

WO20-1

2A *



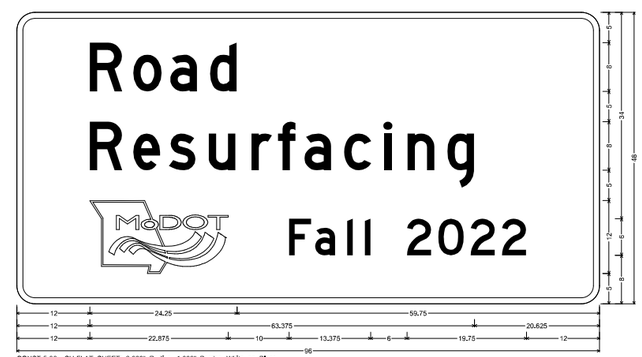
GO20-2

26

WO20-1

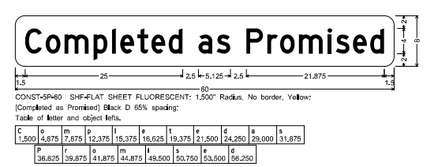
2

* SIGN 2A WITH AWRS MUST BE GROUND OR SKID MOUNTED.



CONST-5-96

61 (3)



NOT TO SCALE

TRAFFIC CONTROL SHEET 1 OF 3

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

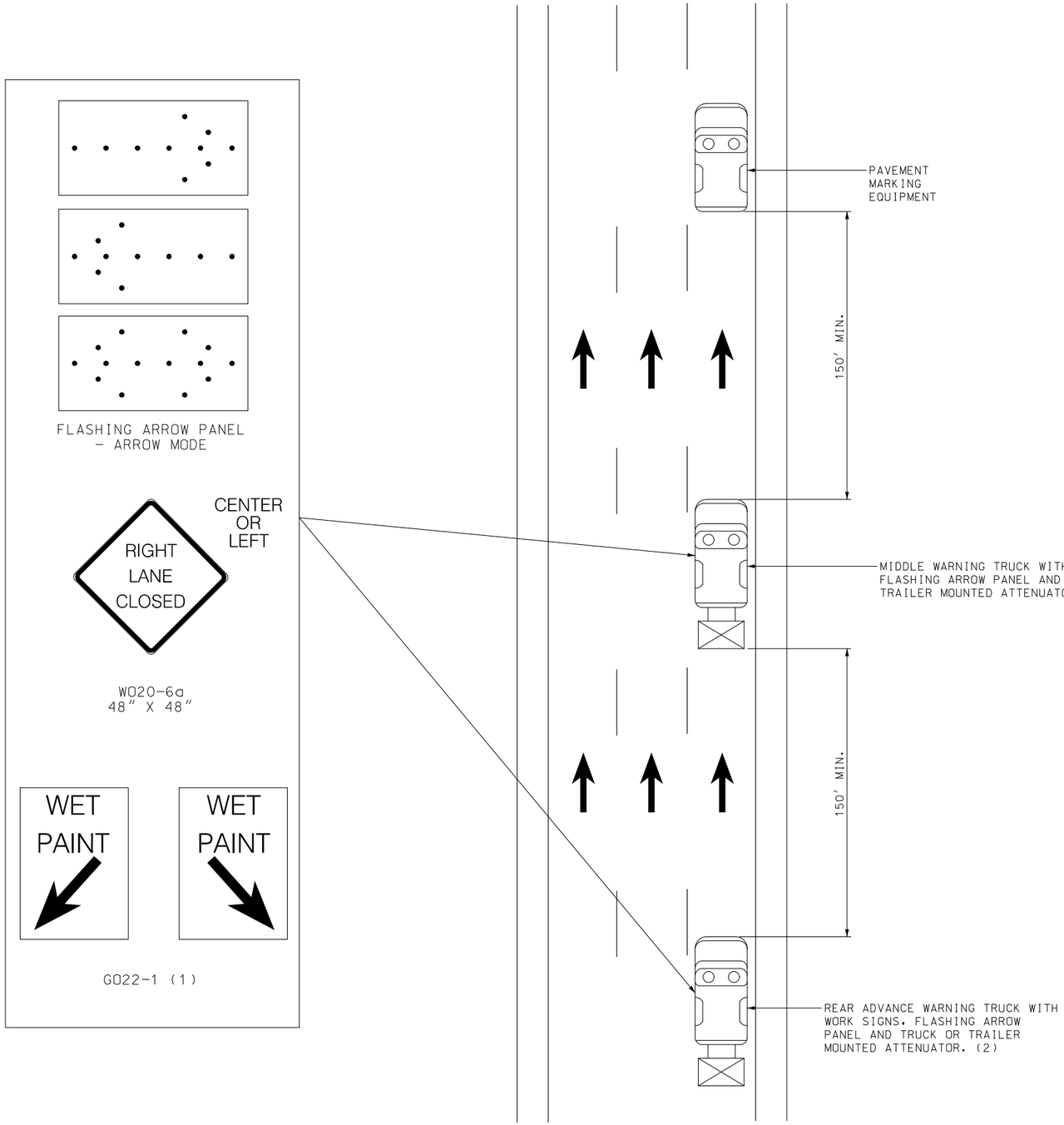
DATE PREPARED	
8/3/2021	
ROUTE 160	STATE MO
DISTRICT SW	SHEET NO. 4
COUNTY GREENE	
JOB NO. J8P3170	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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

REVISED: 4-16-2020



NOTES:
UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY PROVIDE ADDITIONAL PROTECTIVE TRUCKS EQUIPPED WITH PROPER WARNING DEVICES.

PROTECTIVE TRUCK AND WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

FLASHING ARROW PANELS AND SIGNS SHALL BE INCIDENTAL TO TRUCK MOUNTED ATTENUATORS, WHEREVER USED. NO ADDITIONAL PAYMENT SHALL BE MADE.

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

(2) REAR ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL, OR VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE, OR SPACING SHOWN.

FLASHING ARROW PANELS SHALL, AS A MINIMUM, BE TYPE B, WITH A SIZE OF 60 X 30 INCHES.

VEHICLE-MOUNTED SIGNS SHALL BE MOUNTED IN A MANNER SUCH THAT THEY ARE NOT OBSCURED BY EQUIPMENT OR SUPPLIES. SIGN LEGENDS ON VEHICLE-MOUNTED SIGNS SHALL BE COVERED OR TURNED FROM VIEW WHEN WORK IS NOT IN PROGRESS.

A FLASHING ARROW BOARD SHALL BE USED WHEN A FREEWAY LANE IS CLOSED. WHEN MORE THAN ONE LANE CLOSED, A SEPARATE FLASHING ARROW PANEL BOARD SHALL BE USED FOR EACH CLOSED LANE.

NOT TO SCALE

CENTERLINE AND/OR LANE LINE STRIPING ON MULTI-LANE UNDIVIDED HIGHWAYS

TRAFFIC CONTROL
SHEET 2 OF 3

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

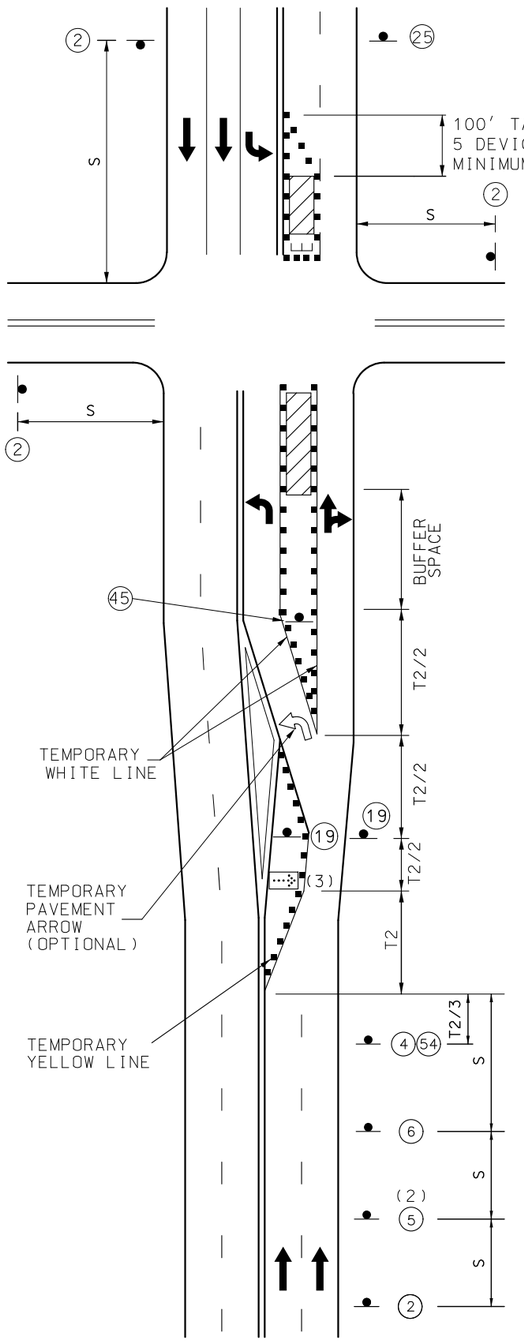
DATE PREPARED	8/3/2021
ROUTE	160
STATE	MO
DISTRICT	SW
SHEET NO.	5
COUNTY	GREENE
JOB NO.	J8P3170
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

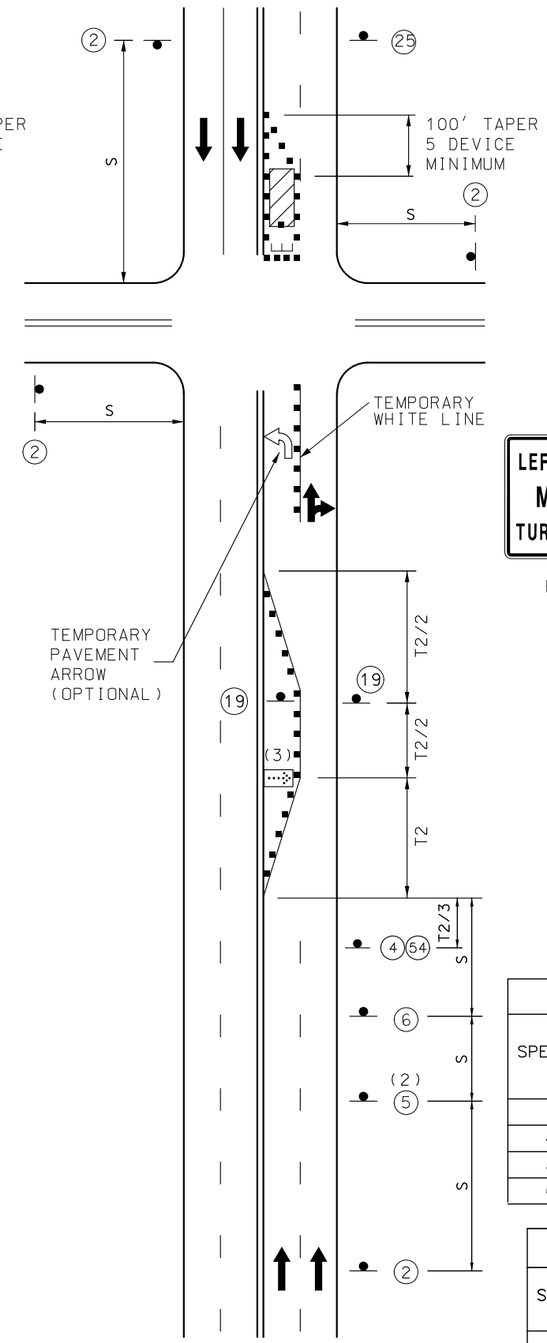
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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

REV.

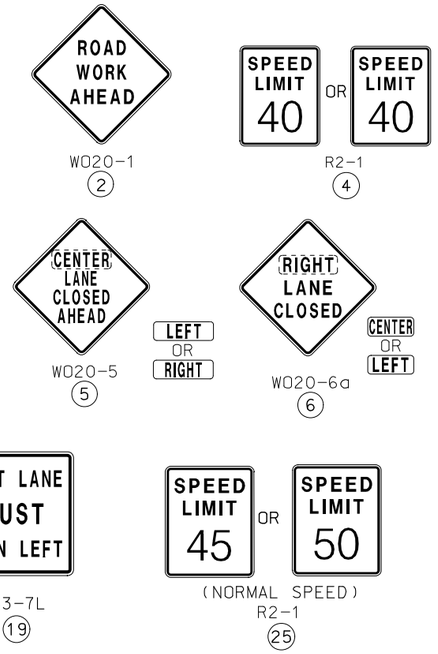


WORK ON NEAR OR FAR SIDE



WORK ON FAR SIDE ONLY

LEFT LANE CLOSURE AT INTERSECTION



NOTES:

REVISED: 5-19-2020

FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING, TIMING, INDICATIONS OR DETECTOR SETTINGS.

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

FOR SHORT TERM OPERATIONS, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, A 10' DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKING. ALL OTHER SPACINGS ARE ONE HALF OF THE SPACING SHOWN IN TABLE.

(1) CONES ALLOWABLE FOR DAYLIGHT OPERATIONS ONLY.

(2) SIGN 5 MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR THE FULL SIGN SERIES.

(3) THE FLASHING ARROW BOARD SHOULD BE LOCATED AT THE BEGINNING OF THE MERGING TAPER WHEN MEDIAN WIDTH ALLOWS ROOM.

LEGEND

- SIGN (SINGLE SIDED)
- SIGN (DOUBLE SIDED)
- FLAGGER
- CHANNELIZER(TRIM-LINE)
- FLASHING ARROW PANEL
- OPTIONAL - ATTENUATOR TRUCK WITH FLASHING ARROW PANEL IN CAUTION MODE W/ 150' ROLL AHEAD SPACE
- DIRECTIONAL BARRICADE
- TYPE 3 MOVEABLE BARRICADE

TAPER LENGTH AND SPACING

SPEED LIMIT[1], MPH	TAPER LENGTH[2], FT		CHANNELIZING SPACING[3], FT		BUFFER LENGTH, FT
	SHOULDER[4] (T1)	LANE[5] (T2)	TAPERS	BUFFER/ WORK AREA	
0-35	70	245	35[6]	40[6]	280
40-45	150	540	40[6]	80[6]	400
50-55	185	660	50[7]	80[7]	560
60-70	235	840	60[7]	120[7]	840

[1]POSTED SPEED LIMIT.
[2]TAPER LENGTHS MAY BE ADJUSTED.
[3]SPACING MAY BE ADJUSTED FOR FIELD CONDITIONS.
[4]BASED ON 10 FT SHOULDER WIDTH.
[5]BASED ON 12 FT LANE WIDTH.
[6]SPACING REDUCED TO ½ AT INTERSECTIONS.
[7]SPACING MAY BE REDUCED TO ½ AT INTERSECTIONS.

ADVANCE WARNING SIGN MINIMUM SPACING

SPEED LIMIT[1], MPH	SIGN SPACING[2], FT (S)	
	UNDIVIDED HIGHWAY	DIVIDED HIGHWAY
0-35	200[3]	200[3]
40-45	350	500
50-55	500	1000
60-70	1000	SA-1000 SB-1500 SC-2640

[1]POSTED SPEED LIMIT.
[2]SPACING MAY BE ADJUSTED FOR FIELD CONDITIONS.
[3]FOR URBAN LOW SPEED, MINIMUM RECOMMENDED SPACING IS 100 FT.

NOT TO SCALE

TRAFFIC CONTROL
SHEET 3 OF 3

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER

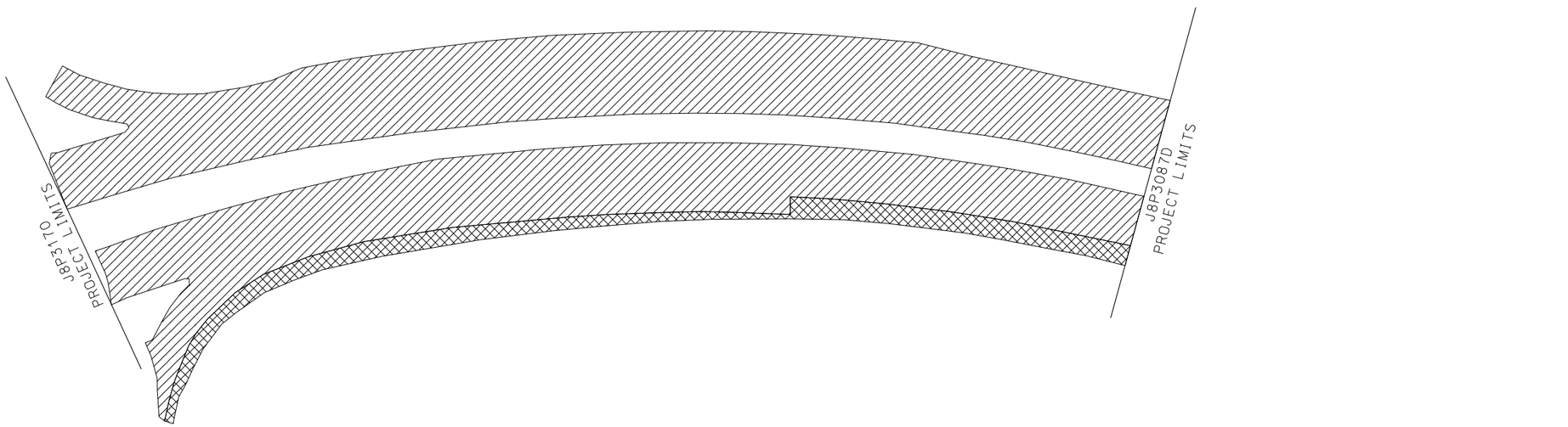
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/3/2021	
ROUTE 160	STATE MO
DISTRICT SW	SHEET NO. 6
COUNTY GREENE	
JOB NO. J8P3170	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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



- MILL & FILL UBAWS

- MILL & FILL 1.75" SP125C

SPECIAL SHEET
SHEET 1 OF 1

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/3/2021	
ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	7
COUNTY	
GREENE	
JOB NO.	
J8P3170	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

PLANS FOR PROPOSED STATE HIGHWAY

REVISED: 4-16-2020

GREENE COUNTY

DESIGN DESIGNATION

A.A.D.T. - 2022 = 9,277 (EB)
9,276 (WB)

T = 9.06%

V = 50 M.P.H.

FUNCTIONAL CLASSIFICATION- EXPRESSWAY

NO NEW R/W REQUIRED

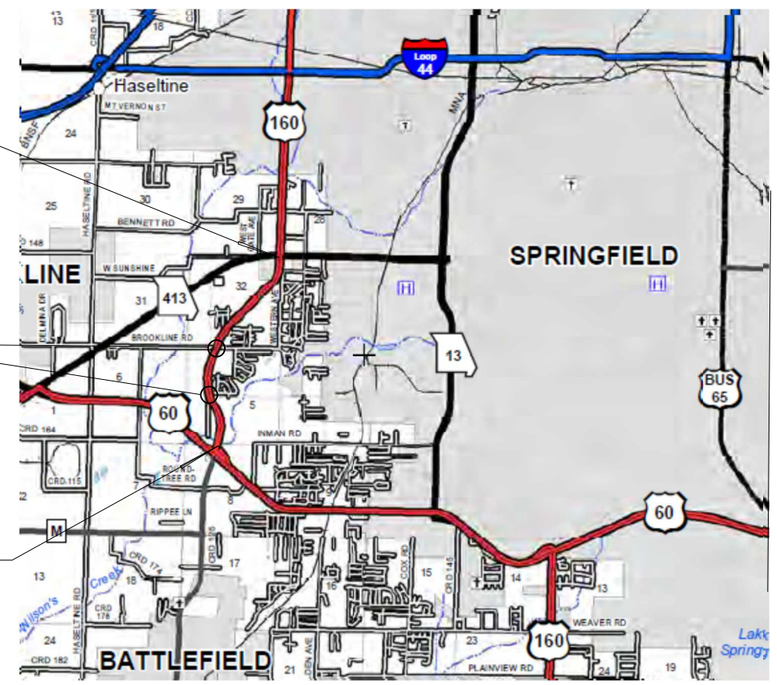
KEY MAP
SHOWING LOCATION OF GREENE COUNTY

1 3/4" SP125C MILL AND FILL & FOG SEAL SHOULDERS

BEGINNING OF PROJECT
EB LOG MILE 93.163

END OF PROJECT
EB LOG MILE 95.336

RADAR DETECTORS AT BATTLEFIELD RD. AND FARM ROAD 156



NOT TO SCALE

CONVENTIONAL SYMBOLS
(USED IN PLANS)

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

NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES

THE EXISTENCE AND APPROXIMATE LOCATION OF UTILITY FACILITIES KNOWN TO EXIST, AS SHOWN ON THE PLANS, ARE BASED ON THE BEST INFORMATION AVAILABLE TO THE COMMISSION AT THIS TIME. THIS INFORMATION IS PROVIDED BY THE COMMISSION "AS-IS" AND THE COMMISSION EXPRESSLY DISCLAIMS ANY REPRESENTATION OR WARRANTY AS TO THE COMPLETENESS, ACCURACY, OR SUITABILITY OF THE INFORMATION FOR ANY USE. RELIANCE UPON THIS INFORMATION IS DONE AT THE RISK AND PERIL OF THE USER, AND THE COMMISSION SHALL NOT BE LIABLE FOR ANY DAMAGES THAT MAY ARISE FROM ANY ERROR IN THE INFORMATION. IT IS, THEREFORE, THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE, LOCATION AND STATUS OF ANY FACILITY. SUCH VERIFICATION INCLUDES DIRECT CONTACT WITH THE LISTED UTILITIES.

INDEX OF SHEETS

DESCRIPTION	SHEET NUMBER
TITLE SHEET	1
TYPICAL SECTIONS (TS) (2 SHEETS)	2
QUANTITIES (QU) (3 SHEETS)	3
SPECIAL SHEETS (SS)	4-6
TRAFFIC CONTROL SHEETS (TC)	7-11

LENGTH OF PROJECT

LOG MILES FROM 2019 ARAN

BEGINNING OF PROJECT	LM 93.163	
END OF PROJECT	LM 95.336	
APPARENT LENGTH	11473	FEET
EQUATIONS AND EXCEPTIONS:	NONE	
TOTAL CORRECTIONS	0.000	FEET
NET LENGTH OF PROJECT	11473	FEET
STATE LENGTH	2.173	MILES
FOR INFORMATION ONLY ESTIMATED DISTURBED ACRES	0.0	ACRES

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER

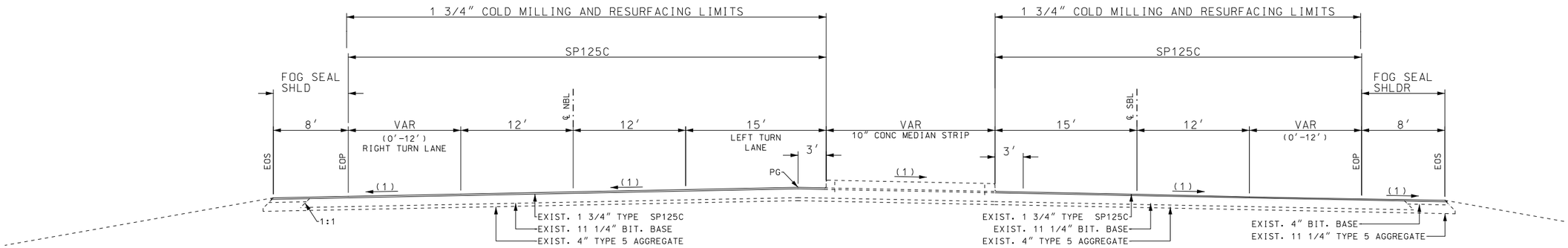
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

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

DATE PREPARED	8/5/2021
ROUTE	160
STATE	MO
DISTRICT	SW
SHEET NO.	1
COUNTY	GREENE
JOB NO.	J8S3168
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)

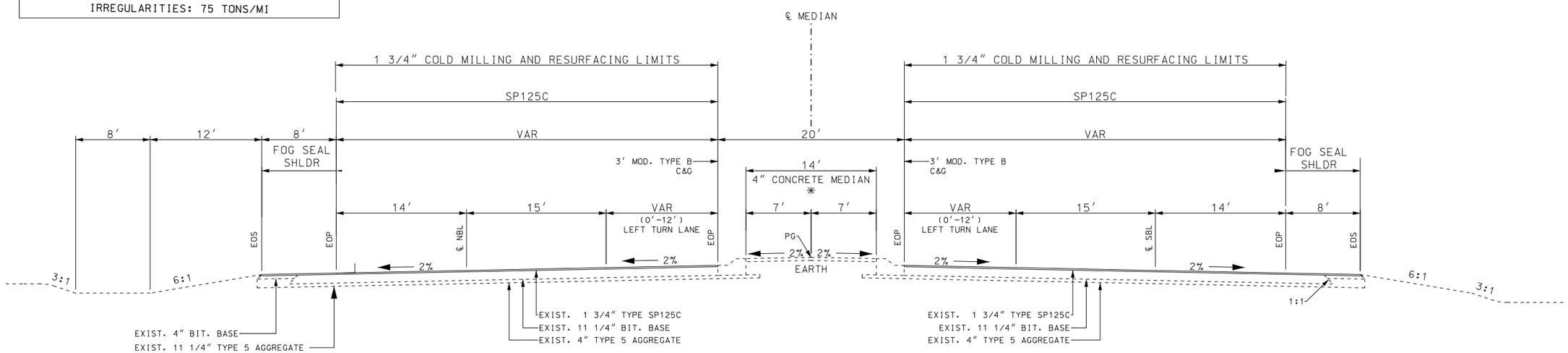


SECTION ON TANGENT
TYPICAL SECTION ROUTE 160

WESTBOUND LANES
LOG MILE 230.336 – LOG MILE 229.939

EASTBOUND LANES
LOG MILE 93.163 – LOG MILE 93.215

ESTIMATE FACTORS		
	ASPH. FACTOR	% AC
SP125C (PG 70-22)	1.975 TONS/C.Y.	4.8
FOG SEAL	0.2 GAL/SY	
TACK EST. @	0.10 GAL/SY	
IRREGULARITIES: 75 TONS/MI		



SECTION ON TANGENT
TYPICAL SECTION ROUTE 160

WESTBOUND LANES
LOG MILE 229.939 – LOG MILE 228.260

EASTBOUND LANES
LOG MILE 93.215 – LOG MILE 94.892

✳ VARIABLE WIDTH MEDIAN
EB LOG MILE 93.175 – 93.327
WB LOG MILE 229.930 – 229.778

NOT TO SCALE

ROUTE 160
TYPICAL SECTION
SHEET 1 OF 2

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/5/2021

ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	2

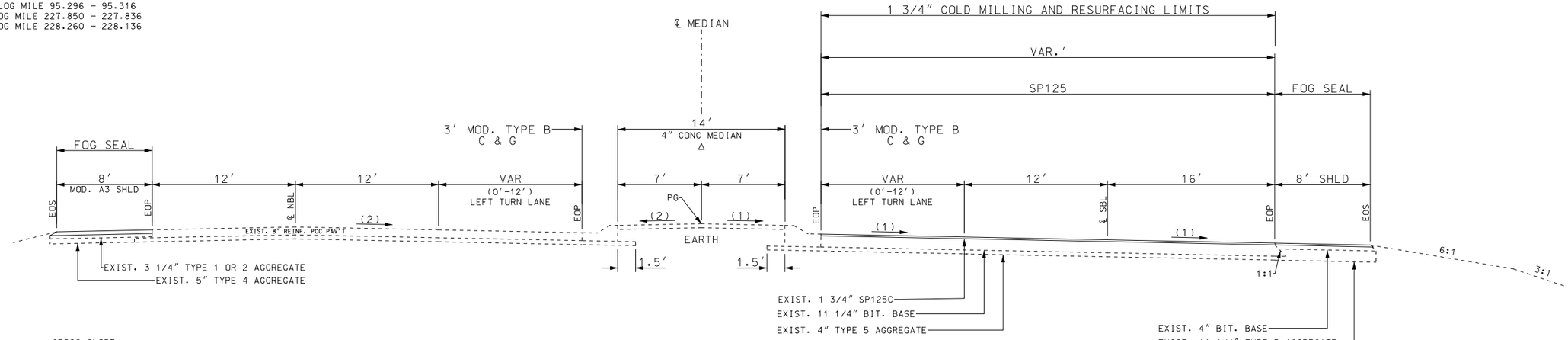
COUNTY: GREENE
JOB NO.: J8S3168
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

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

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

△ VARIABLE WIDTH MEDIAN
EB LOG MILE 94.890 - 95.009
EB LOG MILE 95.296 - 95.316
WB LOG MILE 227.850 - 227.836
WB LOG MILE 228.260 - 228.136



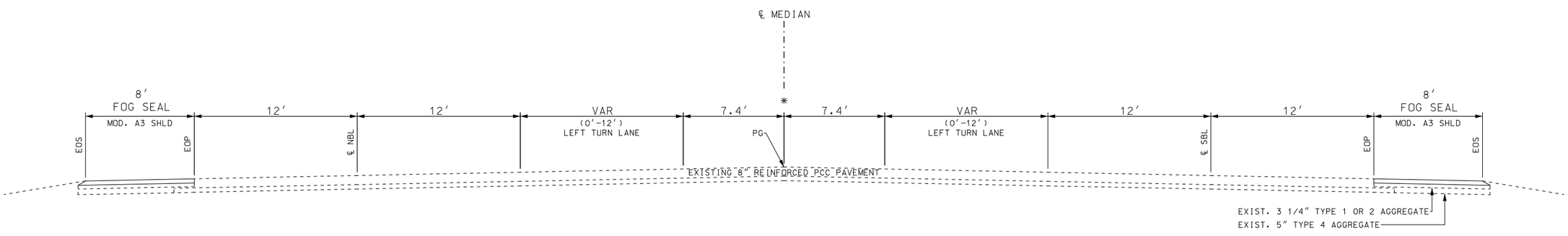
CROSS SLOPE
(1) 2.0%
(2) MATCH EXISTING

SECTION ON TANGENT
TYPICAL SECTION ROUTE 160

WESTBOUND LANES
LOG MILE 228.260 - LOG MILE 227.836

EASTBOUND LANES
LOG MILE 94.892 - LOG MILE 95.316

ESTIMATE FACTORS		
	ASPH. FACTOR	% AC
SP125C (PG 70-22)	1.975 TONS/C.Y.	4.8
FOG SEAL	0.2 GAL/SY	
TACK EST. @	0.10 GAL/SY	
IRREGULARITIES: 75 TONS/MI		



SECTION ON TANGENT
TYPICAL SECTION ROUTE 160

WESTBOUND LANES
LOG MILE 227.836 - LOG MILE 228.161

EASTBOUND LANES
LOG MILE 95.316 - LOG MILE 95.336

✳ 8" RAISED MEDIAN FROM
EB LOG MILE 95.310 - 95.338
WB LOG MILE 227.836 - 227.809

NOT TO SCALE

ROUTE 160
TYPICAL SECTION
SHEET 2 OF 2

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
8/5/2021

ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	2

COUNTY
GREENE

JOB NO.
J8S3168

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

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CONTRACTOR FURNISHED SURVEYING AND STAKING
1 LUMP SUM

PAVEMENT QUANTITIES

LOG MILE	LOG MILE	LENGTH (FT)	LOCATION	AVERAGE WIDTH ROADWAY (FT)	AVERAGE WIDTH SHLDR OUTSIDE (FT)	COLDMILLING LESS 3" THICK (SY)	1.75" SP125C (PG 70-22) ROADWAY (TONS)	FOG SEAL SHOULDER (GAL)	NON OR LOW TRACKING TACK .10 GAL/SY (GAL)	REMARKS
EASTBOUND PAVEMENT QUANTITIES										
93.163	93.203	211.2	EB US 160	VAR	8.00	1283.1	123.18	37.55	128.3	INTERSECTION OF EB US 160 & 413 (INCLUDES TURN LANE)
93.203	93.215	63.4	EB US 160	27.00	8.00	190.1	18.25	11.26	19.0	
93.215	94.341	5945.3	EB US 160	29.00	8.00	19157.0	1839.21	1056.94	1915.7	
94.341	94.420	417.1	EB US 160	VAR	8.00	2762.6	265.23	74.15	276.3	INTERSECTION OF EB US 160 & FARM ROAD 156 (ONLY EB HALF, INCLUDES APRON ON FR 156)
94.420	94.892	2492.2	EB US 160	29.00	8.00	8030.3	770.96	443.05	803.0	
94.892	94.976	443.5	EB US 160	VAR	8.00	1575.3	151.24	78.85	157.5	INTERSECTION OF W BATTLEFIELD ROAD & S. KAUFFMAN ROAD (ONLY EB HALF)
94.976	95.300	1710.7	EB US 160	28.00	8.00	5322.2	510.97	304.13	532.2	
95.300	95.336	190.1	EB US 160	VAR	8.00	452.0	43.40	33.79	45.2	END OF PROJECT, STOP AT EXISTING JOINT
93.146	95.336	11563.2	EB US 160	VAR	VAR		328.50	328.50		IRREGULARITIES (75 TONS/MILE)
WESTBOUND PAVEMENT QUANTITIES										
228.187	228.602	2191.20	WB US 160		8.00			389.55		EXEMPT OUT CONCRETE MAINLINE, FOG SEAL SHOULDERS
228.602	229.034	2280.96	WB US 160	29.00	8.00	7349.8	705.63	405.50	735.0	
228.970	229.034	337.92	WB US 161		8.00	300.4	28.84		30.0	NB SHOULDER FULL DEPTH PAVEMENT --MILL AND FILL --STRIPED AS TURN LANE
229.034	229.134	528.00	WB US 160	VAR	8.00	2679.6	257.26	93.87	268.0	INTERSECTION OF WB 160 & FARM ROAD 156 (ONLY WB HALF, INCLUDES APRON ON FR156)
229.134	230.294	6124.80	WB US 160	29.00	8.00	19735.5	1894.74	1088.85	1973.6	
230.294	230.336	221.76	WB US 160	VAR	8.00	2097.9	201.41	39.42	209.8	INTERSECTION OF WB US 160 & RTE 413
228.187	230.336	11346.72	WB US 160	VAR	VAR		322.35	322.35		IRREGULARITIES (75 TONS/MILE)
					TOTAL	70935.7	7461.17	4707.76	7093.6	
					USE	70936	7461.2	4708.0	7094	

SP125C (PG 70-22) ESTIMATED AT 1.975 TONS/CY
FOG SEAL ESTIMATED AT 0.2 GAL/SY

ANY AND ALL IRREGULARITIES MAY BE UNDERRUN
AND NO ADJUSTMENT TO ANY BID COST WILL BE MADE

RADAR DETECTION

LOG MILE	INTERSECTION (LUMP SUM)	REMARKS/LOCATION
EASTBOUND		
94.341	1	INTERSECTION AT FARM ROAD 156
94.892	1	INTERSECTION AT BATTLEFIELD RD.
TOTAL	2	

MOBILIZATION
1 LUMP SUM

SUMMARY OF QUANTITIES
SHEET 1 OF 3

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
9/22/2021

ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	3

COUNTY
GREENE

JOB NO.
J8S3168

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

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

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

PAVEMENT MARKING

			ACRYLIC WATERBORNE PAVEMENT MARKING PAINT-TYPE L BEADS			PREFORMED THERMOPLASTIC PAVEMENT MARKING				
BEGIN LOG MILE	END LOG MILE	LOC	LENGTH (FT)	4" YELLOW (LF)	6" WHITE (LF)	24" STOP BAR WHITE (LF)	12' PED WHITE CROSSING (LF)	LT. TURN ARROW (EA)	RT. TURN ARROW (EA)	REMARKS
EASTBOUND PAVEMENT MARKING										
93.146	93.155	RT	47.5		47.5					MARKING NEXT TO ISLAND
93.146	94.386	CL	6547.2							INT. WHITE
93.215	94.386	RT	6182.9		6182.9					EDGE LINE
94.346	94.384	LT	200.6							LEFT TURN LANE
94.397	94.405	RT	42.2		42.2					MARKING NEXT TO ISLAND
94.405	94.949	CL	2872.3							INT. WHITE
94.415	94.949	RT	2819.5		2819.5					EDGE LINE
94.911	94.949	LT	200.6							LEFT TURN LANE
94.969	95.310	CL	1800.5							INT. WHITE
94.969	95.310	RT	1800.5		1800.5					EDGE LINE
95.310	95.329	LT	100.3							LEFT TURN LANE
95.310	95.542	RT	1225.0		1225.0					EDGE LINE
95.310	95.542	CL	1225.0							INT. WHITE
95.364	95.542	RT	939.8	1879.7						DOUBLE YELLOW
94.336	94.384	LT						2.0		LEFT TURN LANE
94.384						12.0				STOP BARS
94.386						24.0				STOP BARS
94.917	94.949	LT						2.0		LEFT TURN LANE
94.948						12.0				STOP BARS
94.949						24.0				STOP BARS
94.950							145.0			CROSS WALK
WESTBOUND PAVEMENT MARKING										
228.187	228.190	RT	15.8		15.8					
228.217	228.260	RT	227.0		227.0					
228.217	228.260	CL	227.0							
228.260	228.737	CL	2518.6							
228.260	228.737	RT	2518.6		2518.6					
228.701	228.735	LT	179.5							
228.748	228.756	RT	42.2		42.2					
228.756	230.004	CL	6589.4							
228.763	230.021	RT	6642.2		6642.2					
229.959	230.004	LT	237.6							
229.959	230.002	RT	227.0							
228.174						12.0				STOP BARS
228.176						24.0				STOP BARS
228.191							80.0			CROSS WALK
228.675	228.737	LT/RT			200.0			2.0	2.0	LEFT AND RIGHT TURN LANE F.R. 156
228.735						12.0				STOP BARS
228.737						24.0				STOP BARS
229.939	230.021	LT						2.0		LEFT TURN LANE
229.939	230.021	RT							2.0	RIGHT TURN LANE
230.002						12.0				STOP BARS
230.004						24.0				STOP BARS
			TOTAL	1879.7	21763.5	180.0	225.0	8.0	4.0	
			USE	1880	21764	180	225	12		

NOTE: QUANTITIES SHOWN ARE APPROXIMATE. FINAL PAY QUANTITY SHALL BE BASED ON FINAL MEASUREMENT IN ACCORDANCE WITH PAVEMENT MARKING LOG JSP.

SUMMARY OF QUANTITIES
SHEET 2 OF 3

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED
9/22/2021

ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	3

COUNTY
GREENE

JOB NO.
J8S3168

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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

EFFECTIVE: 04-01-2021

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL AREA SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
WARNING SIGNS								
W01-1L	48X48	16.00						TURN (SYMBOL LEFT ARROW)
W01-1R	48X48	16.00						TURN (SYMBOL RIGHT ARROW)
W01-2L	48X48	16.00						CURVE (SYMBOL LEFT ARROW)
W01-2R	48X48	16.00						CURVE (SYMBOL RIGHT ARROW)
W01-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT ARROW)
W01-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT ARROW)
W01-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT ARROW)
W01-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
W01-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
W01-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LT ARROWS)
W01-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RT ARROWS)
W01-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)
W01-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)
W01-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)
W01-8	18X24	3.00						CHEVRON (SYMBOL)
W01-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
W03-1	48X48	16.00						STOP AHEAD (SYMBOL)
W03-2	48X48	16.00						YIELD AHEAD (SYMBOL)
W03-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)
W03-4	48X48	16.00						BE PREPARED TO STOP
W03-5	48X48	16.00	2	32.00				SPEED LIMIT AHEAD
W04-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)
W04-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)
W04-1aL	48X48	16.00	1	16.00				MERGE (ARROW SYMBOL)
W04-1aR	48X48	16.00	1	16.00				MERGE (ARROW SYMBOL)
W05-1	48X48	16.00						ROAD/BRIDGE/RAMP NARROWS
W05-3	48X48	16.00						ONE LANE BRIDGE
W05-5	48X48	16.00						NARROW LANES
W06-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)
W06-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)
W06-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)
W07-3a	30X24	5.00						NEXT XX MILES (PLAQUE)
W08-1	48X48	16.00						BUMP
W08-2	48X48	16.00						DIP
W08-3	48X48	16.00						PAVEMENT ENDS
W08-4	48X48	16.00						SOFT SHOULDER
W08-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)
W08-6	48X48	16.00						TRUCK CROSSING (WITH FLAGS)
W08-6c	48X48	16.00						TRUCK ENTRANCE
W08-7	36X36	9.00						LOOSE GRAVEL
W08-7a	36X36	9.00						FRESH OIL/LOOSE GRAVEL
W08-9	48X48	16.00						LOW SHOULDER
W08-11	48X48	16.00						UNEVEN LANES
W08-12	48X48	16.00						NO CENTER LINE
W08-15	48X48	16.00						GROOVED PAVEMENT
W08-15P	30X24	5.00						MOTORCYCLE (PLAQUE)
W08-17	48X48	16.00						SHOULDER DROP-OFF (SYMBOL)
W08-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)
W10-1	42RND.	9.62						RAILROAD CROSSING
W012-1	24X24	4.00	2	8.00				DOUBLE DOWN ARROW (SYMBOL)
W012-2	48X48	16.00						LOW CLEARANCE (SYMBOL)
W012-2X	24X18	3.00						LOW CLEARANCE (PLAQUE)
W012-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)
W012-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD
W012-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD
W013-1	30X30	6.25						ADVISORY SPEED (PLAQUE)
W016-2	30X24	5.00						XXX FEET (PLAQUE)
W016-3	30X24	5.00						X MILE (PLAQUE)
W020-1	48X48	16.00	23	368.00				ROAD/BRIDGE/RAMP WORK AHEAD
W020-2	48X48	16.00						DETOUR AHEAD
W020-3	48X48	16.00						ROAD CLOSED AHEAD
W020-4	48X48	16.00						ONE LANE ROAD AHEAD
W020-5	48X48	16.00	5	80.00				RIGHT/CENTER/LEFT LANE CLOSED AHEAD
W020-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD
W020-6a	48X48	16.00	6	96.00				RIGHT/CENTER/LEFT LANE CLOSED
W020-7a	48X48	16.00						FLAGGER (SYMBOL, WITH FLAGS)
W021-2	36X36	9.00						FRESH OIL
W021-5	48X48	16.00						SHOULDER WORK AHEAD
W022-1	48X48	16.00						BLASTING ZONE AHEAD
W022-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE
W022-3	42X36	10.50						END BLASTING ZONE
G022-1	21X15	2.19						WET PAINT (ARROW PIVOTS)

SIGN	SIZE IN.	AREA SQ.FT.	QTY EACH	TOTAL SQ.FT.	QTY RELOC EACH	TOTAL RELOC SQ.FT.	SIGN NUM.	DESCRIPTION
GUIDE SIGNS								
E05-1	36X48	12.00						GORE EXIT
E05-2	48X36	12.00						EXIT OPEN
E05-2a	48X36	12.00						EXIT CLOSED
G020-1	60X24	10.00	4	40.00				ROAD WORK NEXT XX MILES
G020-2	48X24	8.00	4	32.00				END ROAD WORK
G020-4	36X18	4.50						PILOT CAR FOLLOW ME
G020-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW
G020-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW
G020-5aP	36X24	6.00	5	30.00				WORK ZONE (PLAQUE)
M04-8a	24X18	3.00						END DETOUR
M04-9L	48X36	12.00						DETOUR (LEFT ARROW)
M04-9R	48X36	12.00						DETOUR (RIGHT ARROW)
M04-9P	48X12	4.00						STREET NAME (PLAQUE)
M04-10L	48X18	6.00						DETOUR (ARROW LEFT)
M04-10R	48X18	6.00						DETOUR (ARROW RIGHT)
REGULATORY SIGNS								
R1-1	48X48	13.25						STOP
R1-2	48TRI.	6.93						YIELD
R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)
R1-3P	30X12	2.50						ALL WAY (PLAQUE)
R2-1	36X48	12.00	10	120.00				SPEED LIMIT XX
R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00						NO TURNS
R3-4	48X48	16.00						NO U-TURN (SYMBOL)
R3-7L	30X30	6.25	4	25.00				LEFT LANE MUST TURN LEFT
R3-7R	30X30	6.25	4	25.00				RIGHT LANE MUST TURN RIGHT
R4-1	36X48	12.00						DO NOT PASS
R4-2	36X48	12.00						PASS WITH CARE
R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)
R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)
R5-1	30X30	6.25						DO NOT ENTER
R5-1a	36X24	6.00						WRONG WAY
R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00						ONE WAY (LEFT)
R6-2R	24X30	5.00						ONE WAY (RIGHT)
R9-9	24X12	2.00						SIDEWALK CLOSED
R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R10-6	24X36	6.00						STOP HERE ON RED (45° ARROW)
R11-2	48X30	10.00						ROAD CLOSED
R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50						ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00						FINE SIGN
CONST-3X	56X12	4.67						SPEEDING/PASSING (PLATE)
MISCELLANEOUS SIGNS								
CONST-5	48X36	12.00						POINT OF PRESENCE
CONST-5	96X48	32.00	1	32.00				POINT OF PRESENCE
CONST-7	48X24	8.00						RATE OUR WORK ZONE
CONST-7	72X36	18.00	2	36.00				RATE OUR WORK ZONE
CONST-8	48X36	12.00	4	48.00				WORK ZONE NO PHONE ZONE

	TOTAL
616-10.05 CONSTRUCTION SIGNS	1004
616-10.10 RELOCATED SIGNS	0

ITEM NUMBER	TOTAL QTY	DESCRIPTION
6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
6122020		REPLACEMENT SAND BARREL
6122030		IMPACT ATTENUATOR (RELOCATION)
6123000A	3	TRUCK OR TRAILER MOUNTED ATTENUATOR (TMA)
6161008		ADVANCED WARNING RAIL SYSTEM
6161012		BUOYS (BOATS KEEP OUT)
6161013		BUOYS (NO WAKE)
6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
6161025	150	CHANNELIZER (TRIM LINE)
6161030	2	TYPE III MOVEABLE BARRICADE
6161033		DIRECTION INDICATOR BARRICADE
6161040	3	FLASHING ARROW PANEL
6161047		TYPE III OBJECT MARKER
6161051		WARNING LIGHT, TYPE A
6161052		WARNING LIGHT, TYPE B
6161053		WARNING LIGHT, TYPE C
6161070		TUBULAR MARKER
6161095		RADAR SPEED ADVISORY SYSTEM
6161096		CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
6161098A		CHANGEABLE MESSAGE SIGN W/O COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6161099	2	CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
6162004	4	TEMPORARY SHORT-TERM RUMBLE STRIPS
6173600D		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/RETAINED
6173602B		TEMPORARY TRAFFIC BARRIER CONTRACTOR FURNISHED/COMMISSION RETAINED
6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION
6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
6176000B		TEMPORARY TRAFFIC BARRIER COMMISSION FURNISHED/RETAINED
6177000B		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION COMMISSION FURNISHED/RETAINED
6208064A		TEMPORARY RAISED PAVEMENT MARKER
9029400		TEMPORARY TRAFFIC SIGNALS
9029401		TEMPORARY TRAFFIC SIGNALS AND LIGHTING

NOTES: PLACE POP SIGN PAID FOR IN THIS PROJECT NORTH OF JRF. COORDINATE CMS SIGNS LOCATIONS J8P3087D AND J8P3170.

SUMMARY OF QUANTITIES
SHEET 3 OF 3

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 9/22/2021

ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	3

COUNTY: GREENE

JOB NO. J8S3168

CONTRACT ID.

PROJECT NO.

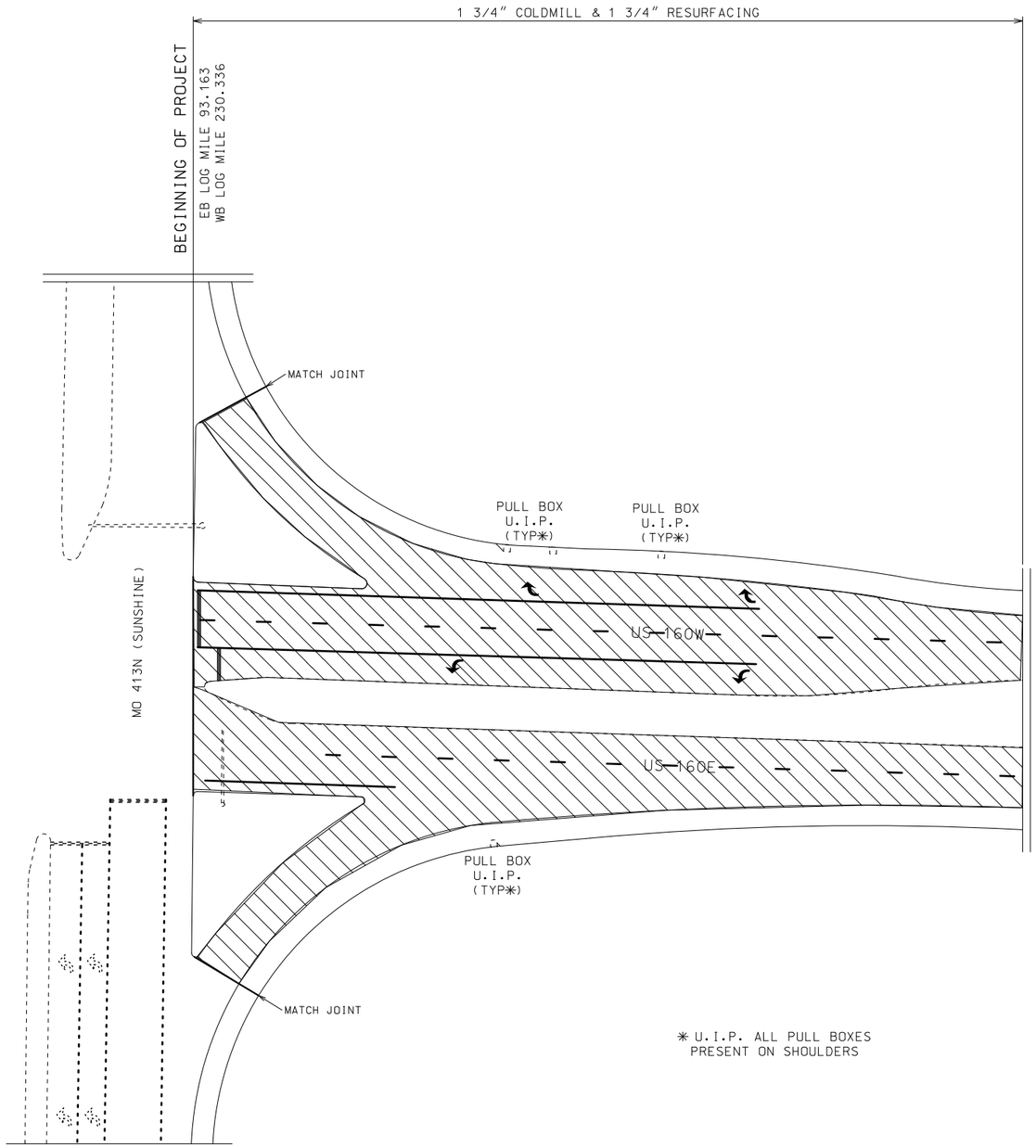
BRIDGE NO.

DATE	DESCRIPTION

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

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

BEGINNING OF PROJECT

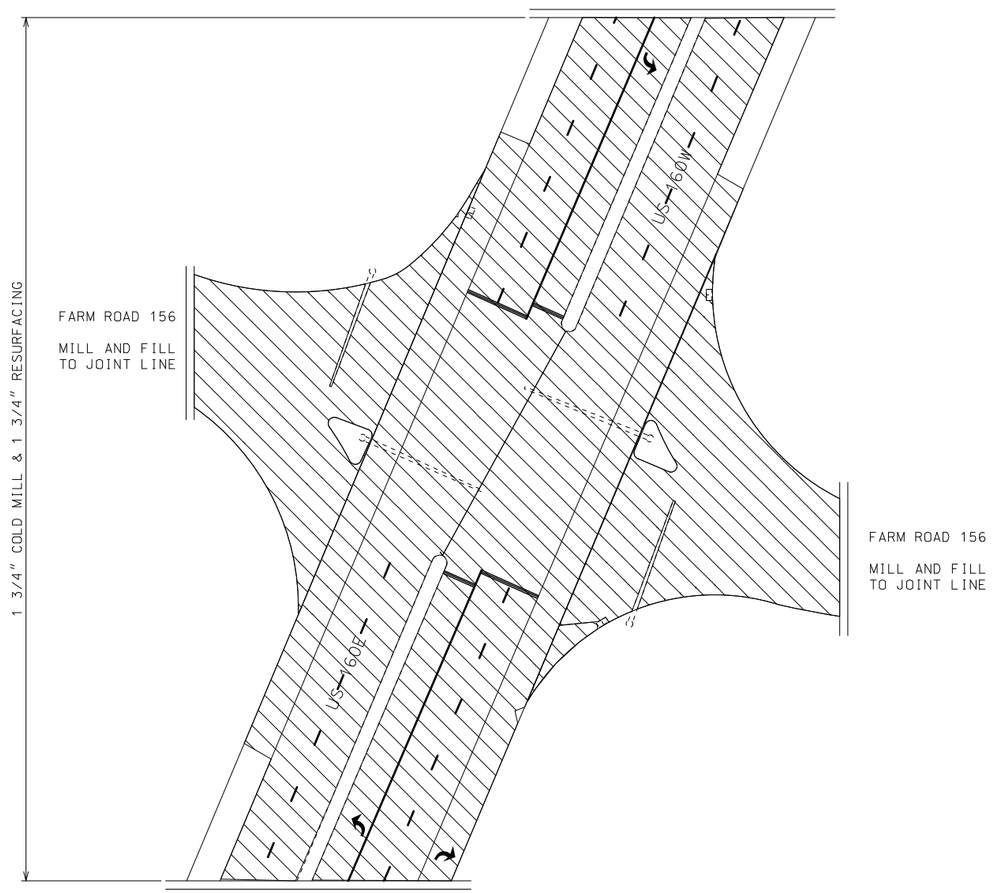


COLDMILL & 1.75" SP125C RESURFACE

NOTES: FOG SEAL SHOULDERS

NOT TO SCALE

INT. US 160 AND FARM ROAD 156



NOTE: INSTALL RADAR DETECTOR AT INTERSECTION

COLDMILL & 1.75" SP125C RESURFACE

NOTES: FOG SEAL SHOULDERS

NOT TO SCALE

SPECIAL SHEET
SHEET 1 OF 3

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	
8/5/2021	
ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	4
COUNTY	
GREENE	
JOB NO.	
J8S3168	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

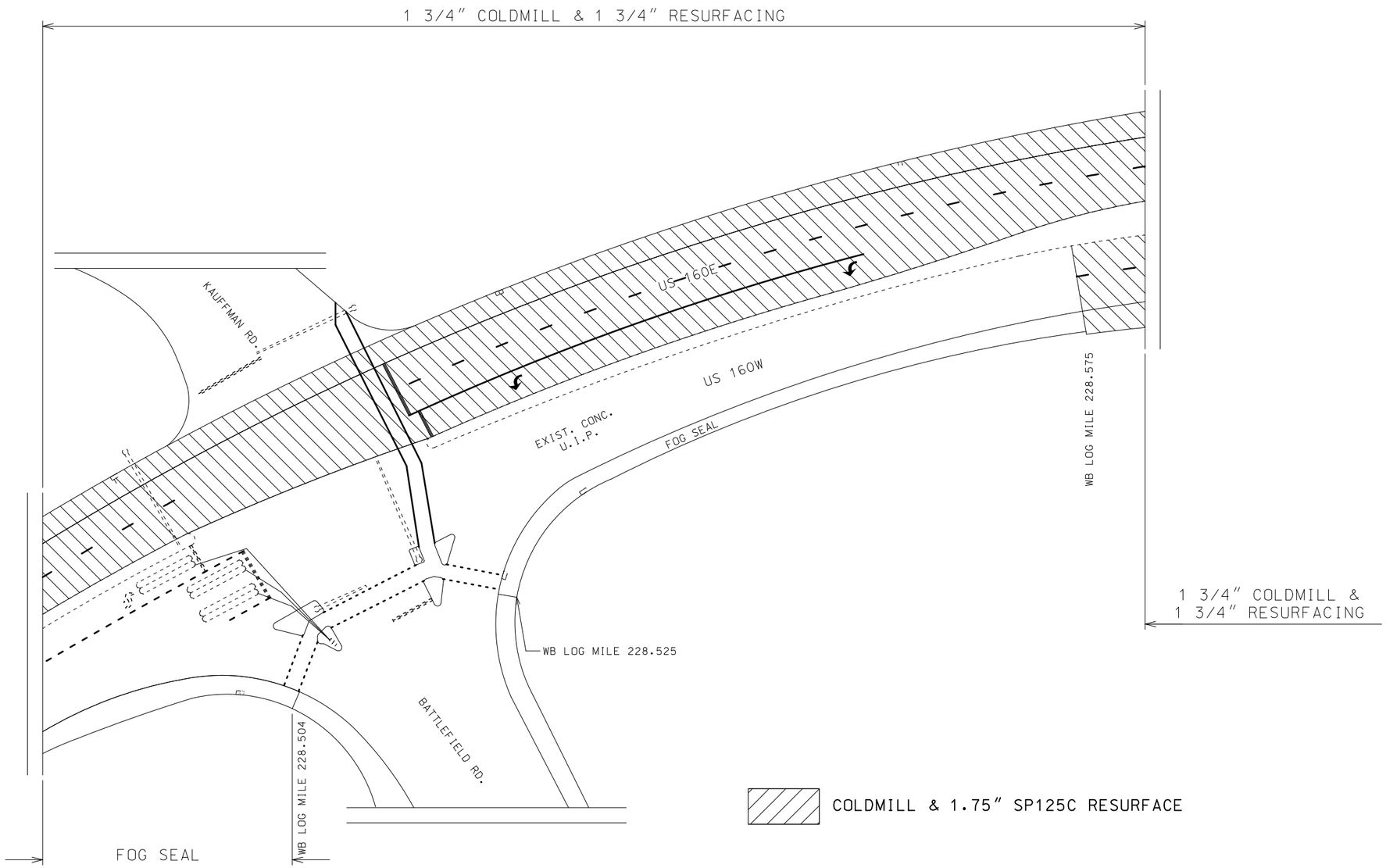
DATE	DESCRIPTION

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

INT. US 160 & BATTLEFIELD RD



NOTE: INSTALL RADAR DETECTORS AT INTERSECTION

NOT TO SCALE

SPECIAL SHEET
SHEET 2 OF 3

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	8/5/2021
ROUTE	160
STATE	MO
DISTRICT	SW
SHEET NO.	5
COUNTY	GREENE
JOB NO.	J8S3168
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

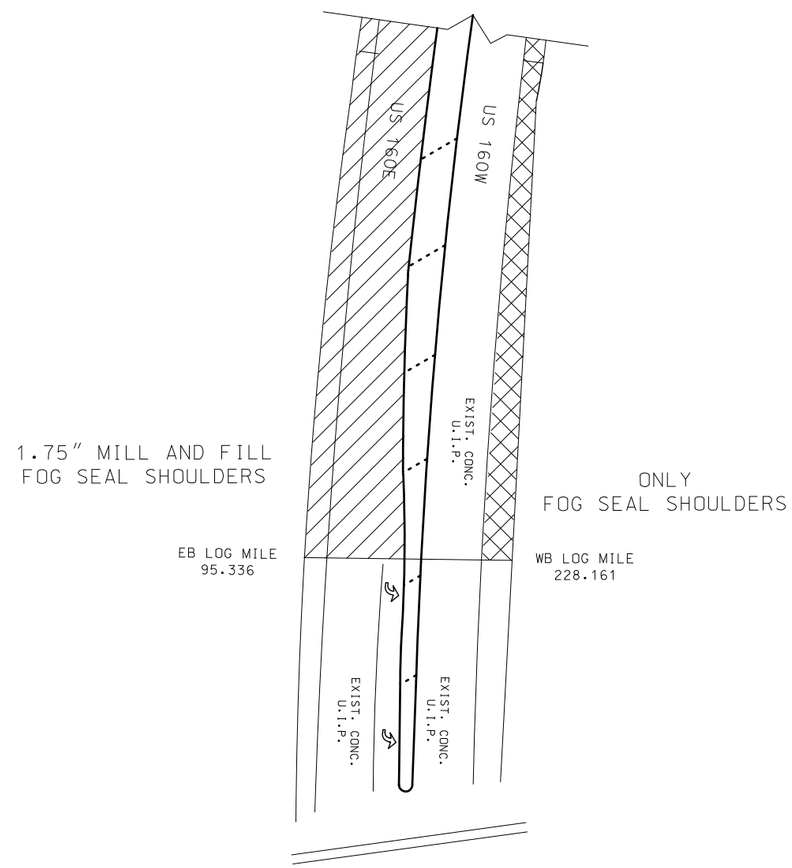
DATE	DESCRIPTION

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

END OF PROJECT



COLDMILL & 1.75" SP125C RESURFACE
FOG SEAL

FOG SEAL

NOT TO SCALE

SPECIAL SHEET
SHEET 3 OF 3

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

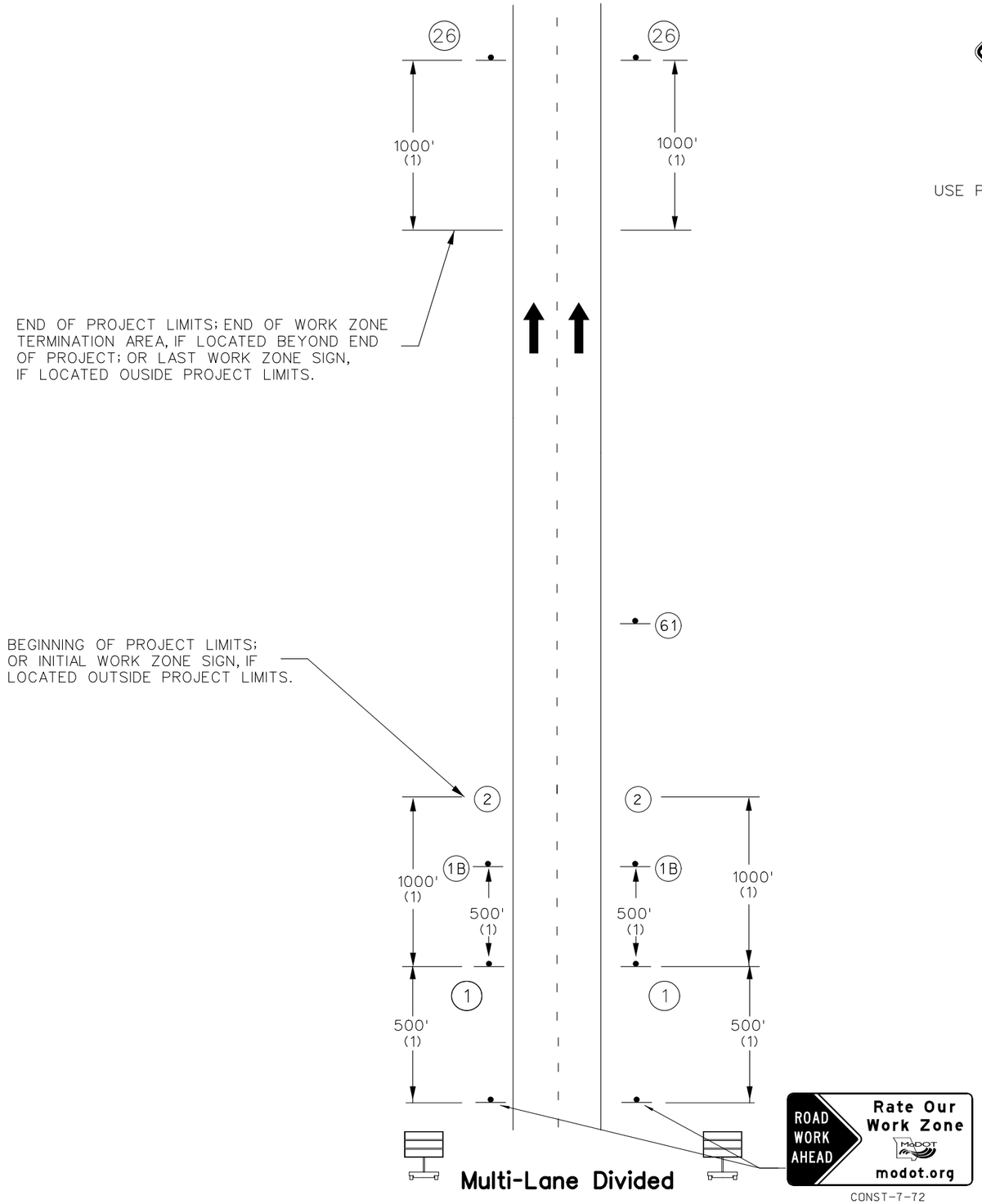
DATE PREPARED	8/5/2021
ROUTE	160
STATE	MO
DISTRICT	SW
SHEET NO.	6
COUNTY	GREENE
JOB NO.	J8S3168
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



Multi-Lane Divided

CONST-7-72

W08-11

36

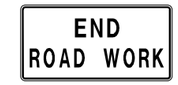
USE PER STANDARD PLANS 619.10

W08-12

35

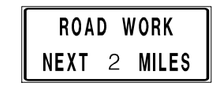
CONST-8-48

1B



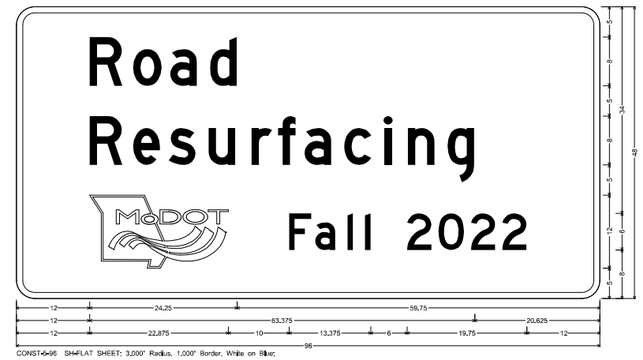
G020-2

26



G020-1

1



CONST-5-96

61

W020-1

2

BRIDGE OR RAMP

NOTES:

SIGN (1) IS ONLY REQUIRED ON PROJECTS OF 2 MILES OR GREATER IN LENGTH

SIGN (26) IS USED ON ALL PROJECTS WHERE SIGN (1) IS USED.

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

SIGN (35) AND TEMPORARY PAVEMENT MARKING INSTALLED WHERE CENTERLINE STRIPING HAS BEEN COVERED OR REMOVED. SIGNS ARE TO REMAIN IN PLACE UNTIL THE PERMANENT CENTERLING PAVEMENT MARKINGS ARE IN PLACE. SIGNS SHALL BE COVERED OR REMOVED WHEN PAVEMENT CENTERLINE MARKING HAS BEEN INSTALLED.

SIGN (35) IS PLACED AT APPROXIMATELY TWO-MILE INTERVALS AND AT STATE ROUTE JUNCTIONS. WHEN THE INSTALLATION AT A JUNCTION IS WITHIN ONE-EIGHTH MILE OF THE NORMAL MAINLINE SIGN (35), THE LATTER MAY BE ELIMINATED.

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

2. SIGN CONST-5-96 IS PLACED IN A VISIBLE AREA WITHIN THE PROJECT LIMITS PROVIDED ITS PLACEMENT DOES NOT DISRUPT A SEQUENCE OF SIGNS. IF A VISIBLE LOCATION WITHIN THE PROJECT IS NOT AVAILABLE, THE SIGN MAY BE PLACED 500 FEET BEFORE SIGN CONST-7-72.

TRAFFIC CONTROL
SHEET 1 OF 6

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	8/5/2021
ROUTE 160	STATE MO
DISTRICT SW	SHEET NO. 7
COUNTY	GREENE
JOB NO.	J8S3168
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION

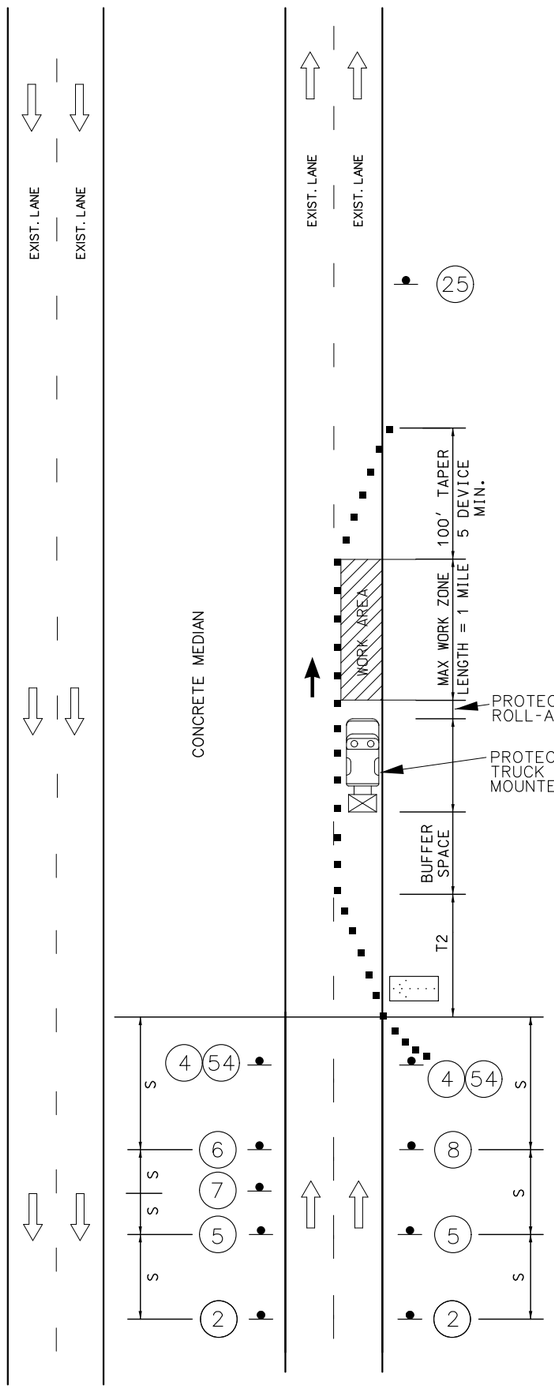
DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

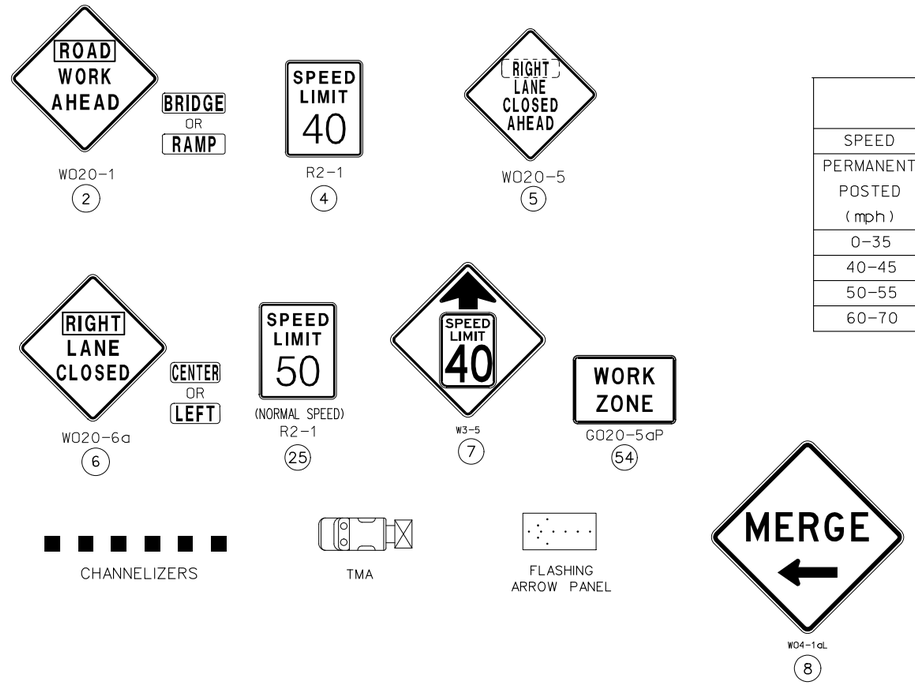
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

REV.



OUTSIDE LANE CLOSURE

NOT TO SCALE



TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES					
SPEED	TAPER LENGTH (FT)		OPTIONAL	CHANNELIZER SPACING (FT)	
PERMANENT POSTED (mph)	SHOULDER (T1)	LANE (T2)	BUFFER LENGTH (FT) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	70	245	280	35	40
40-45	150	540	400	40	80
50-55	185	660	560	50	80
60-70	235	840	840	60	120

SIGN SPACING FOR ADVANCE SIGN SERIES SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION. SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.	
SPEED	SIGN SPACING (FT)
PERMANENT POSTED (mph)	DIVIDED (S)
0-35	200
40-45	500
50-55	1000
60-70	SA-1000 SB-1500 SC-2640

SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.

LANE TAPER LENGTH BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.

NOTES:

SEE BEGINNING OF PROJECT SIGNING SHEET FOR ADDITIONAL SIGNS.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES, NO DIRECT PAY.

NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, CONSTRUCTION SIGNS, OR FLASHING ARROW PANEL.

FOR SHORT TERM OPERATIONS WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, DEVICE SPACING ARE ONE-HALF OF THE SPACING SHOWN IN THE TABLE.

SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTRED WITHIN THE NEXT 1/2 MILE.

ALL SIGNS, EXCEPT "RATE OUR WORK ZONE" AND "POINT OF PRESENCE", SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS.

WORK WILL REQUIRE LANE CLOSURES UNLESS OTHERWISE APPROVED BY THE ENGINEER.

LAYOUT IS TYPICAL FOR EITHER DIRECTION OF TRAFFIC.

SEE STANDARD DRAWING 616.10 FOR ADDITIONAL DETAILS.

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

TRAFFIC CONTROL
SHEET 2 OF 6

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/5/2021

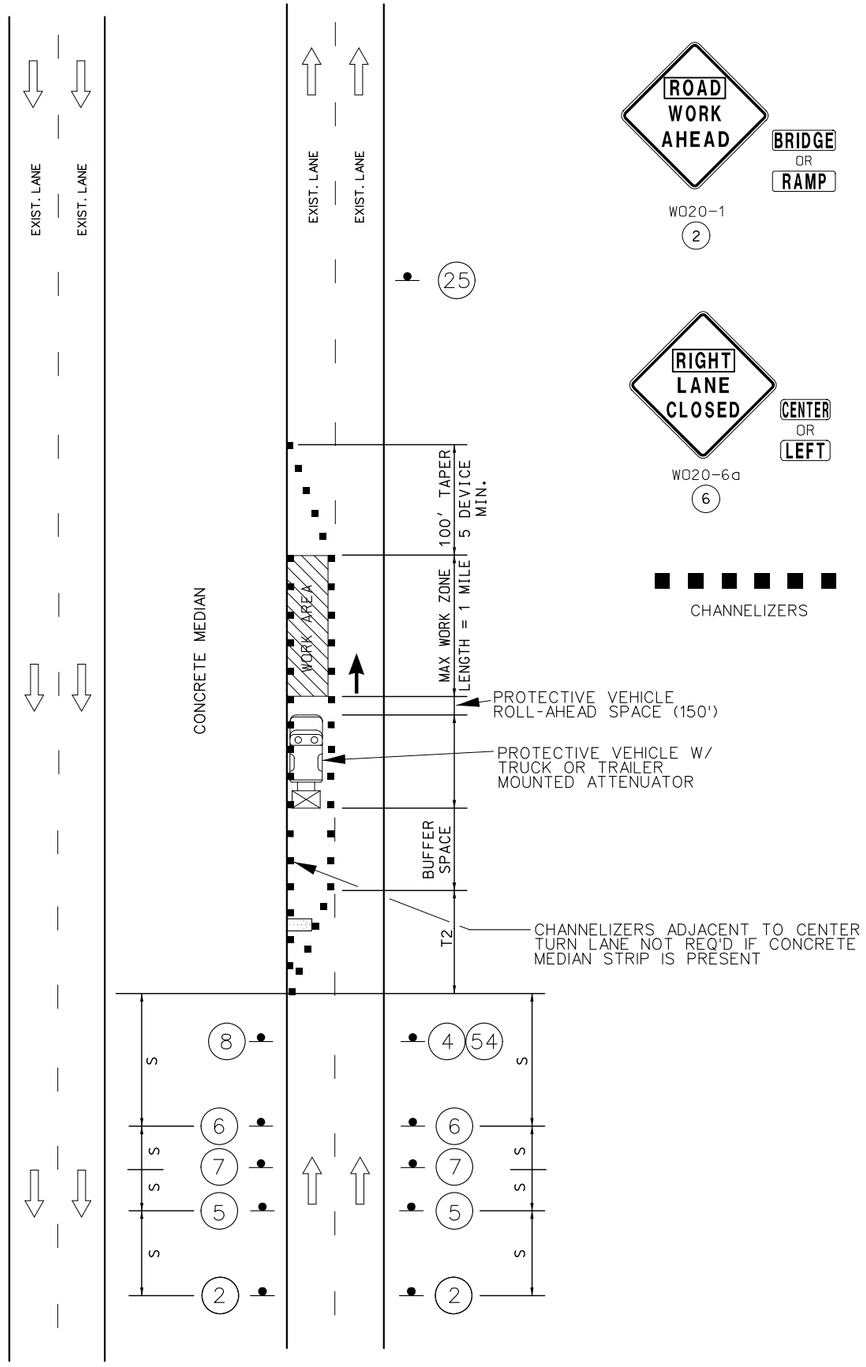
ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	8

COUNTY: GREENE
JOB NO.: J8S3168
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

DATE	DESCRIPTION

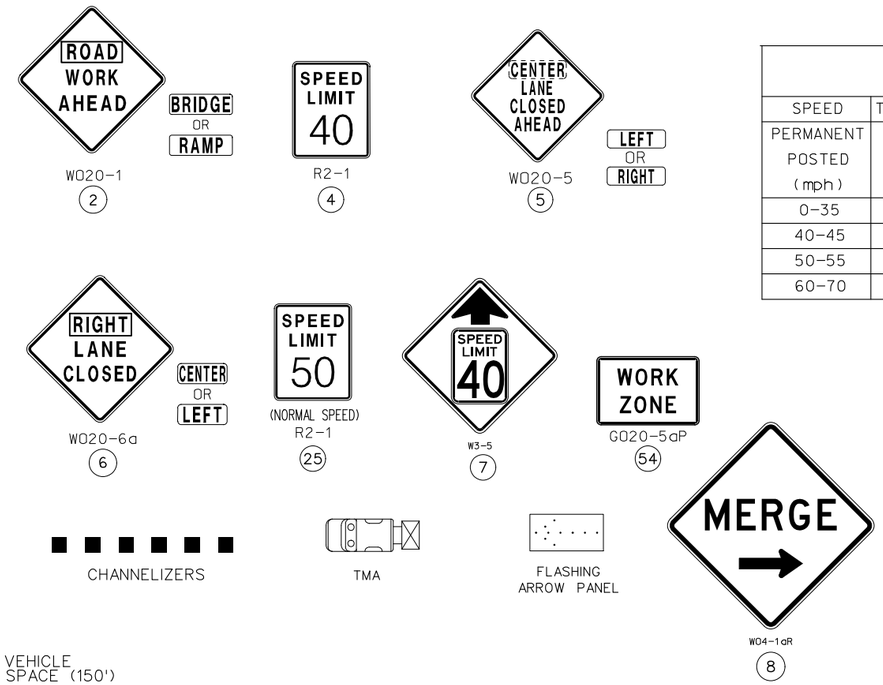
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
105 WEST CAPITOL
JEFFERSON CITY, MO 65102
1-888-ASK-MODOT (1-888-275-6636)

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



PASSING LANE CLOSURE

NOT TO SCALE



TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES					
SPEED	TAPER LENGTH (FT)		OPTIONAL	CHANNELIZER SPACING (FT)	
PERMANENT POSTED (mph)	SHOULDER (T1)	LANE (T2)	BUFFER LENGTH (FT) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	70	245	280	35	40
40-45	150	540	400	40	80
50-55	185	660	560	50	80
60-70	235	840	840	60	120

SIGN SPACING FOR ADVANCE SIGN SERIES

SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION.

SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

SPEED	SIGN SPACING (FT)
PERMANENT POSTED (mph)	DIVIDED (S)
0-35	200
40-45	500
50-55	1000
60-70	SA-1000 SB-1500 SC-2640

SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.

LANE TAPER LENGTH BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.

NOTES:

SEE BEGINNING OF PROJECT SIGNING SHEET FOR ADDITIONAL SIGNS.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES, NO DIRECT PAY.

NO DIRECT PAYMENT WILL BE MADE FOR THE RELOCATION OF CHANNELIZERS, CONSTRUCTION SIGNS, OR FLASHING ARROW PANEL.

FOR SHORT TERM OPERATIONS WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, DEVICE SPACING ARE ONE-HALF OF THE SPACING SHOWN IN THE TABLE.

SPEED LIMIT SIGNS INDICATING THE NORMAL SPEED LIMIT SHALL BE INSTALLED AT THE END OF THE WORK ZONE, PROVIDED NO FURTHER WORK ZONES WILL BE ENCOUNTRED WITHIN THE NEXT 1/2 MILE.

ALL SIGNS, EXCEPT "RATE OUR WORK ZONE" AND "POINT OF PRESENCE", SHALL BE PORTABLE MOUNT AND ARE TO BE MOVED AS WORK PROGRESSES, UNLESS OTHERWISE NOTED. ALL TRAFFIC CONTROL ITEMS SHALL BE REMOVED FROM THE ROADWAY DURING NON-WORKING HOURS.

WORK WILL REQUIRE LANE CLOSURES UNLESS OTHERWISE APPROVED BY THE ENGINEER.

LAYOUT IS TYPICAL FOR EITHER DIRECTION OF TRAFFIC.

SEE STANDARD DRAWING 616.10 FOR ADDITIONAL DETAILS.

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

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER

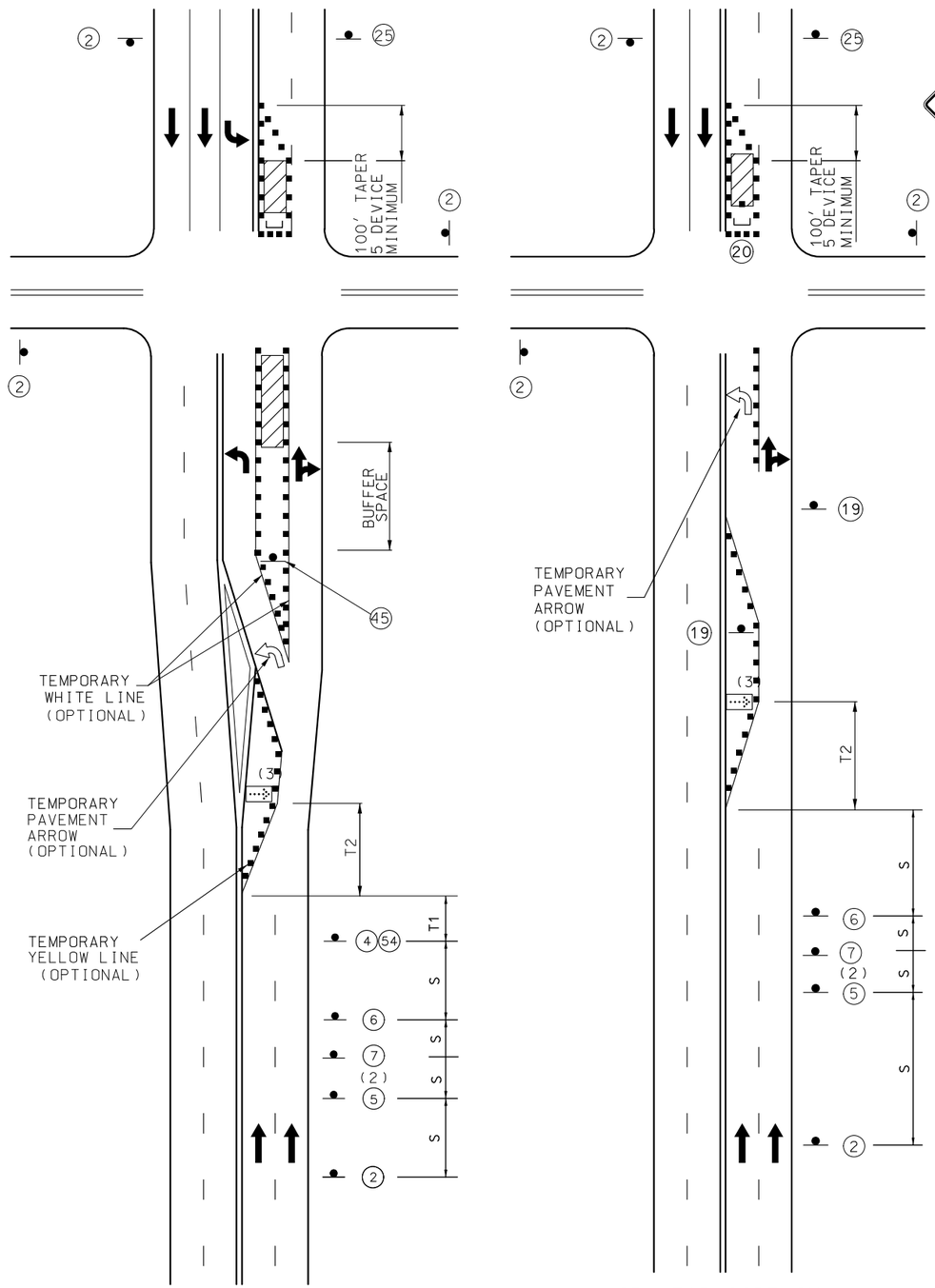
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	8/5/2021
ROUTE	160
STATE	MO
DISTRICT	SW
SHEET NO.	9
COUNTY	GREENE
JOB NO.	J8S3168
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

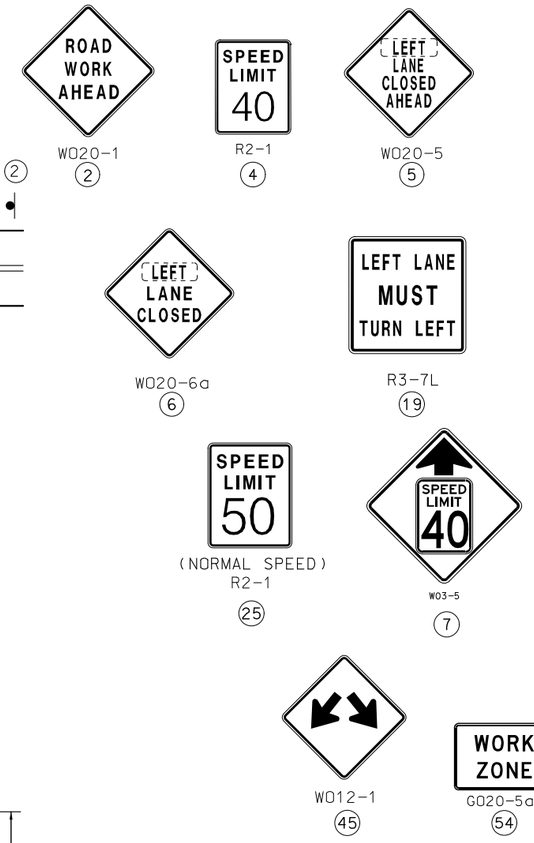
IF A SEAL IS PRESENT ON THIS SHEET IT HAS BEEN ELECTRONICALLY SEALED AND DATED.

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



WORK ON NEAR OR FAR SIDE

WORK FAR SIDE ONLY



NOTES:

FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING, TIMING, INDICATIONS OR DETECTOR SETTINGS.

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

FOR SHORT TERM OPERATIONS, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, A 10' DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKING. ALL OTHER SPACINGS ARE ONE HALF OF THE SPACING SHOWN IN TABLE.

(1) CONES ALLOWABLE FOR DAYLIGHT OPERATIONS ONLY.

(2) SIGN 5 MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR THE FULL SIGN SERIES.

(3) THE FLASHING ARROW BOARD SHOULD BE LOCATED AT THE BEGINNING OF THE MERGING TAPER WHEN MEDIAN WIDTH ALLOWS ROOM.

TYPE 3 MOVEABLE BARRICADE

CHANNELIZERS (1)

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES

SPEED	TAPER LENGTH (FT)		OPTIONAL	CHANNELIZER SPACING (FT)	
PERMANENT POSTED (mph)	SHOULDER (T1)	LANE (T2)	BUFFER LENGTH (FT) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	70	245	280	35	40
40-45	150	540	400	40	80
50-55	185	660	560	50	80
60-70	235	840	840	60	120

SIGN SPACING FOR ADVANCE SIGN SERIES

SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION.

SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

SPEED	SIGN SPACING (FT)
PERMANENT POSTED (mph)	DIVIDED (S)
0-35	200
40-45	500
50-55	1000
60-70	SA-1000 SB-1500 SC-2640

SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.

LANE TAPER LENGTH BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.

LEFT LANE CLOSURE AT INTERSECTION - NOT TO SCALE

TRAFFIC CONTROL
SHEET 4 OF 6

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER
THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/5/2021

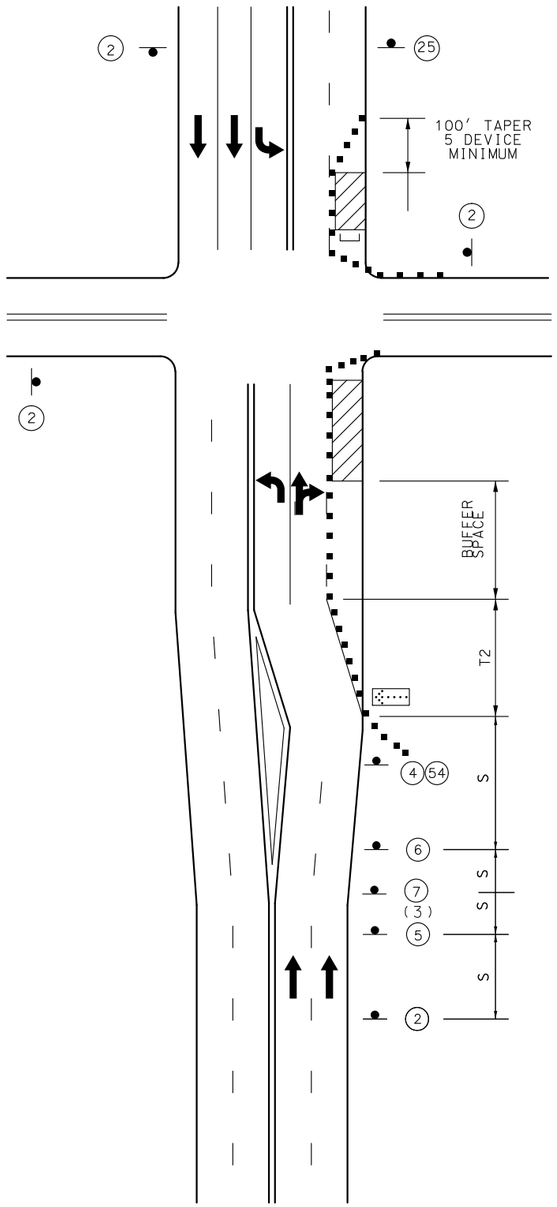
ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	10

COUNTY: GREENE
JOB NO.: J8S3168
CONTRACT ID.
PROJECT NO.
BRIDGE NO.

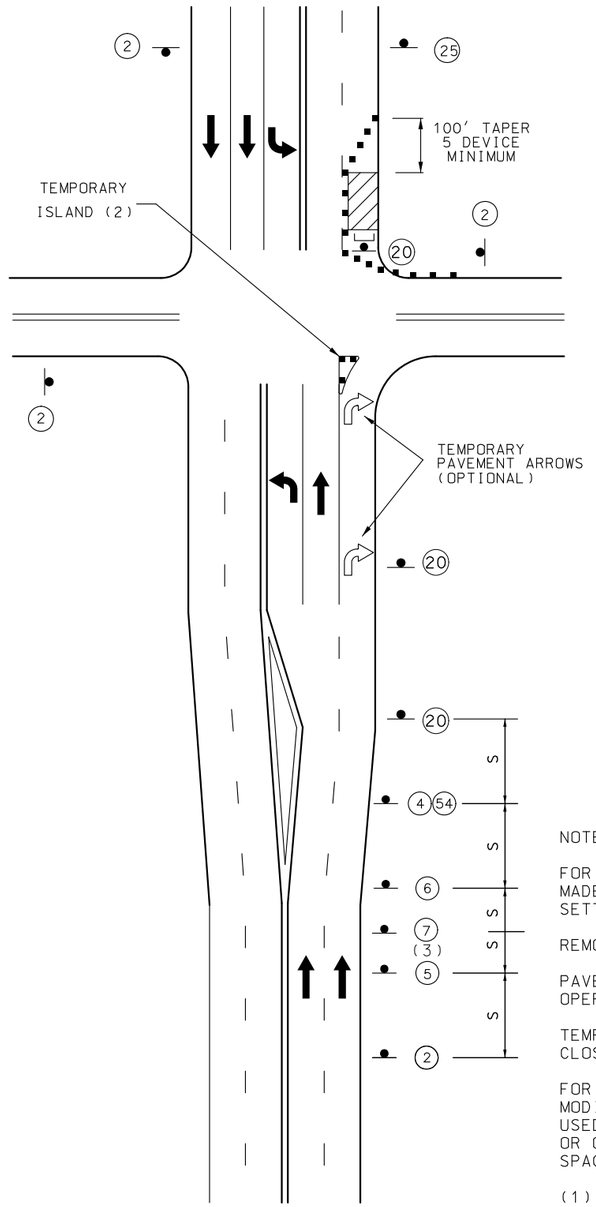
DATE	DESCRIPTION

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

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



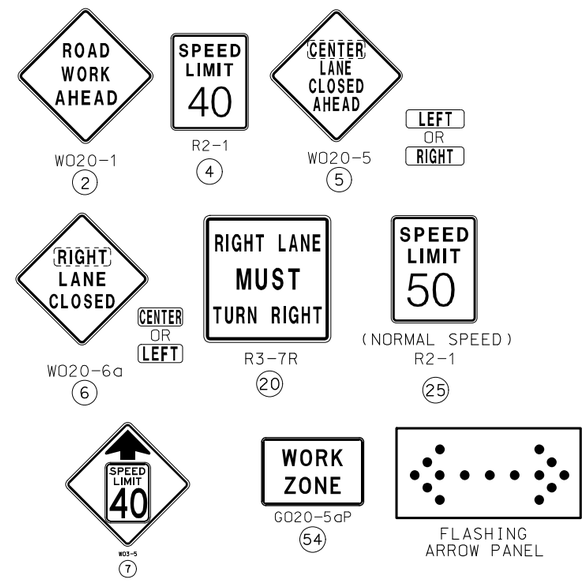
Work On Near Or Far Side



Work On Far Side Only (1)

RIGHT LANE CLOSURE AT INTERSECTION - NOT TO SCALE

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES					
SPEED	TAPER LENGTH (FT)		OPTIONAL	CHANNELIZER SPACING (FT)	
PERMANENT POSTED (mph)	SHOULDER (T1)	LANE (T2)	BUFFER LENGTH (FT) (B)	TAPERS	BUFFER/ WORK AREAS
0-35	70	245	280	35	40
40-45	150	540	400	40	80
50-55	185	660	560	50	80
60-70	235	840	840	60	120



SIGN SPACING FOR ADVANCE SIGN SERIES
SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION.
SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

SPEED	SIGN SPACING (FT)
PERMANENT POSTED (mph)	DIVIDED (S)
0-35	200
40-45	500
50-55	1000
60-70	SA-1000 SB-1500 SC-2640

SHOULDER TAPER LENGTH BASED ON 10 FT. (STANDARD SHOULDER WIDTH) OFFSET.

LANE TAPER LENGTH BASED ON 12 FT. (STANDARD LANE WIDTH) OFFSET.

CHANNELIZERS

TYPE 3 MOVEABLE BARRICADE

NOTES:

FOR SIGNALIZED INTERSECTIONS, ADJUSTMENTS MAY NEED TO BE MADE TO SIGNAL PHASING, TIMING, INDICATIONS OR DETECTOR SETTINGS.

REMOVE AND/OR MODIFY EXISTING PAVEMENT MARKING AS NEEDED.

PAVEMENT MARKING AND BARRICADES OPTIONAL FOR SHORT TERM OPERATIONS.

TEMPORARY PAVEMENT MARKING REQUIRED WITH LONG TERM LANE CLOSURES.

FOR SHORT TERM OPERATIONS, WHERE IT IS NOT FEASIBLE TO MODIFY PAVEMENT MARKING, A 10' [3 m] DEVICE SPACING IS USED WHERE TRAFFIC IS GUIDED ACROSS DOUBLE YELLOW LINES OR OTHER CONFLICTING PAVEMENT MARKING. ALL OTHER SPACINGS ARE ONE HALF OF THE SPACING SHOWN IN TABLE.

(1) THIS FIGURE ONLY APPLIES WHERE A SIGNIFICANT PERCENTAGE OF THE APPROACH VOLUME TURNS RIGHT.

(2) TEMPORARY ISLAND MAY BE USED TO EMPHASIZE THE MANDATORY RIGHT TURN MOVEMENT WHERE THERE IS A SUFFICIENT RIGHT TURN RADIUS.

(3) SIGN 5 MAY BE OMITTED IN LOW SPEED URBAN AREAS WHERE THERE IS NOT SUFFICIENT SPACE FOR THE FULL SIGN SERIES.

TRAFFIC CONTROL
SHEET 5 OF 6

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED 8/5/2021

ROUTE	STATE
160	MO
DISTRICT	SHEET NO.
SW	11

COUNTY: GREENE

JOB NO. J8S3168

CONTRACT ID.

PROJECT NO.

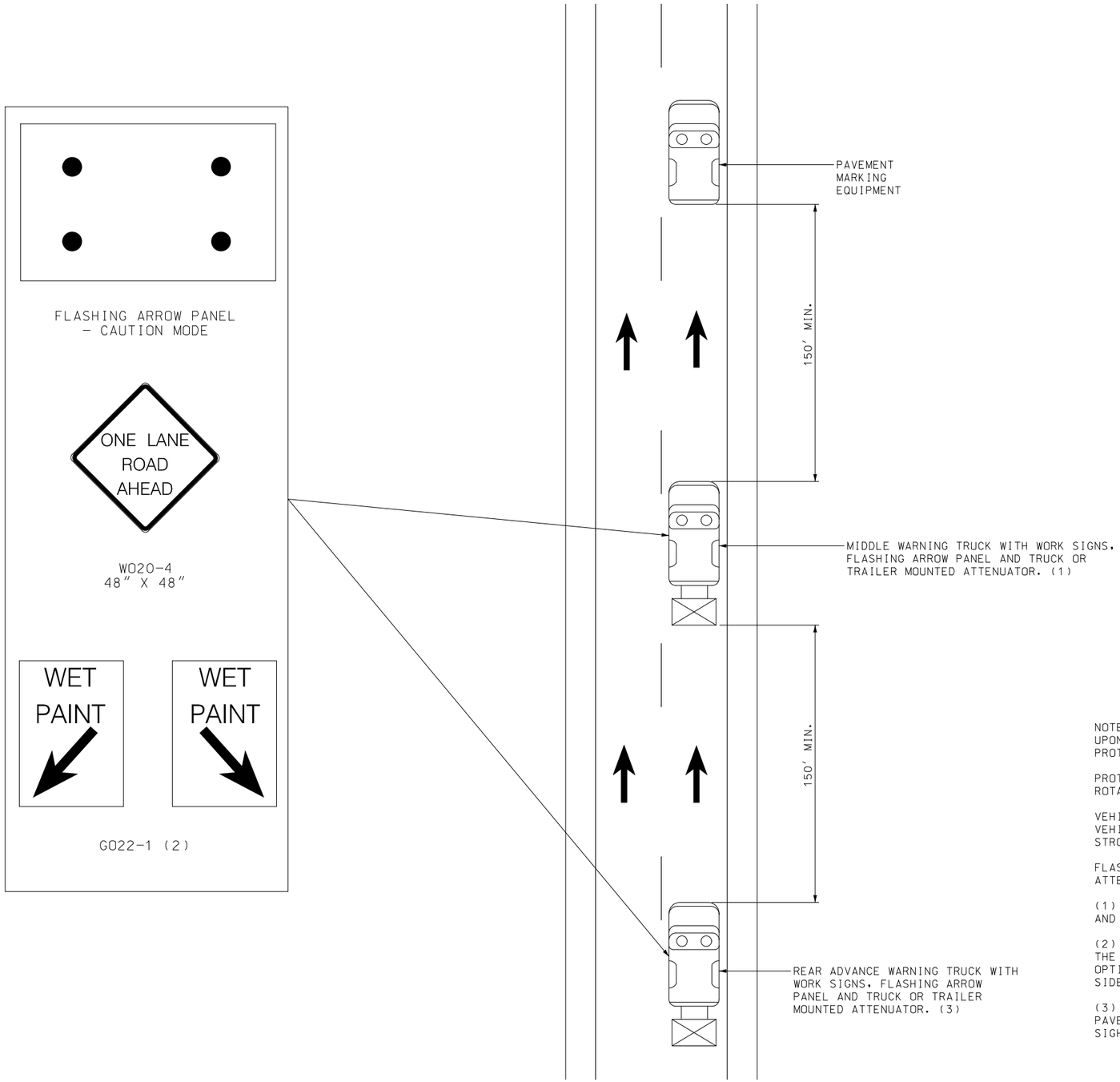
BRIDGE NO.

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

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



CENTERLINE/EDGELINE STRIPING

NOTES:
UPON APPROVAL OF THE ENGINEER, THE CONTRACTOR MAY PROVIDE ADDITIONAL PROTECTIVE TRUCKS EQUIPPED WITH PROPER WARNING DEVICES.

PROTECTIVE TRUCK AND WORK VEHICLES SHALL DISPLAY HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

VEHICLE HAZARD WARNING SIGNALS SHALL NOT BE USED INSTEAD OF THE VEHICLE'S HIGH-INTENSITY ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS.

FLASHING ARROW PANELS AND SIGNS SHALL BE INCIDENTAL TO TRUCK MOUNTED ATTENUATORS, WHEREVER USED. NO ADDITIONAL PAYMENT SHALL BE MADE.

(1) TRUCK IS OPTIONAL ON TWO-LANE UNDIVIDED HIGHWAYS IF SIGNING AND ARROW BOARD IS MOUNTED ON THE PAVEMENT MARKING EQUIPMENT.

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

(3) REAR ADVANCE WARNING TRUCK IS POSITIONED AT THE NO TRACK POINT OF THE PAVEMENT MARKING MATERIAL, OR VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE, OR SPACING SHOWN.

NOT TO SCALE

TRAFFIC CONTROL
SHEET 6 OF 6

STATE OF MISSOURI
JASON D. EVENDEN
NUMBER
PE-2013000559
PROFESSIONAL ENGINEER

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY.

DATE PREPARED	9/30/2021
ROUTE	160
STATE	MO
DISTRICT	SW
SHEET NO.	12
COUNTY	GREENE
JOB NO.	J8S3168
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

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

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

REV.