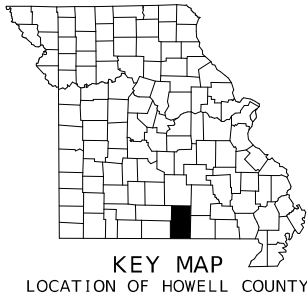


DESIGN DESIGNATION

A.A.D.T. - 2026 = 12,947
A.A.D.T. - 2046 = 15,590
D.H.V. = 8.06
T = 25.04%
V = 65 M.P.H.
D = 50%/50%

FUNCTIONAL CLASSIFICATION-FREEWAY

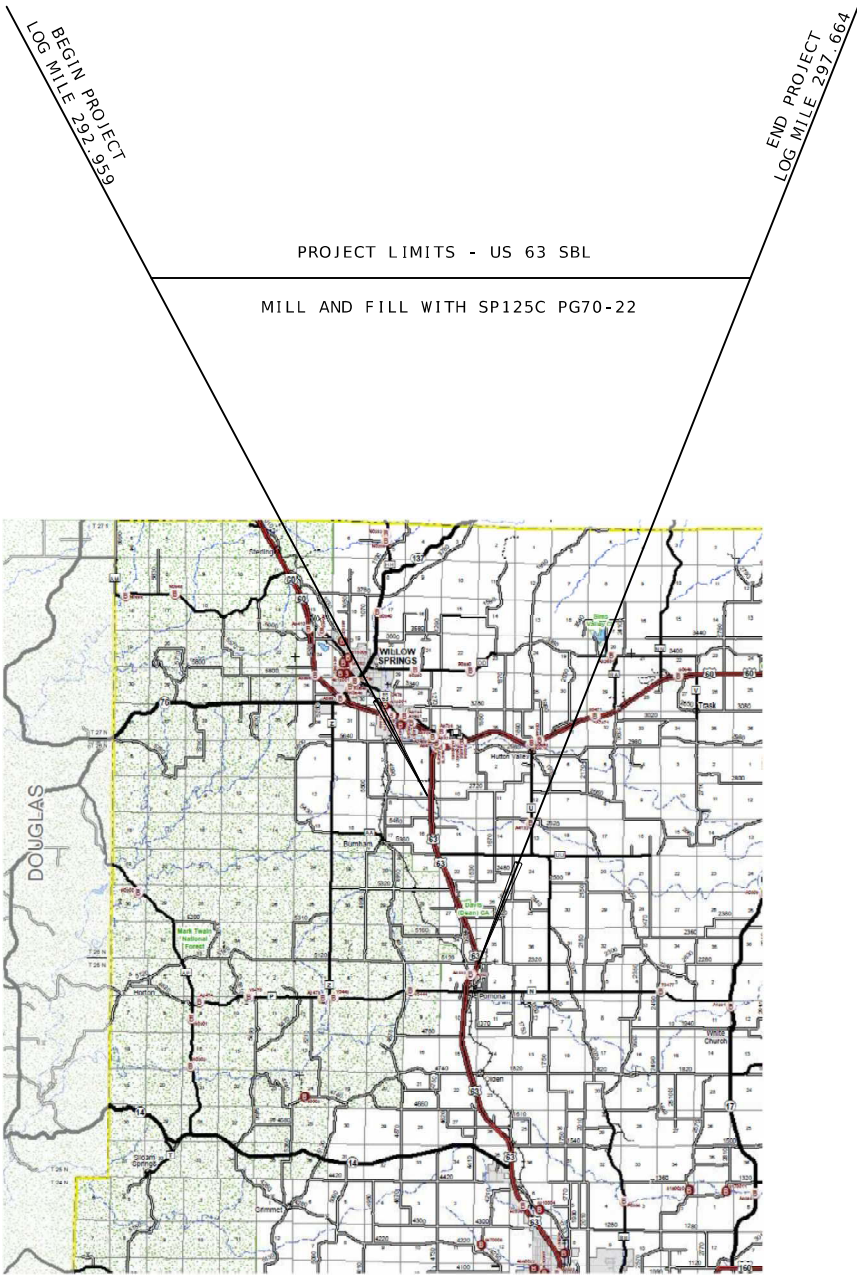
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION
PLANS FOR PROPOSED
STATE HIGHWAY
HOWELL COUNTY



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		
FIRE HYDRANT		
WATER VALVE		
WATER METER		
DROP INLET		
DITCH BLOCK		
GROUND MOUNTED SIGN		
LIGHT POLE		
H-FRAME POWER POLE		
TELEPHONE PEDESTAL		
FENCE		
CHAIN LINK		
WOVEN WIRE		
GATE POST		
BENCHMARK		

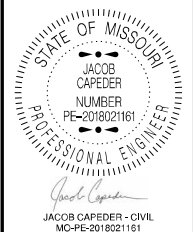
NOTE: DASHED OR OPEN SYMBOLS INDICATE EXISTING FEATURES



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) (01 SHEETS)--	2
QUANTITIES (QU) (03 SHEETS)-----	3
SPECIAL SHEETS (SS)-----	4
TRAFFIC CONTROL SHEETS (TC)-----	5-8
PAVEMENT MARKING (PM)-----	9



DATE PREPARED 8/11/2025	
ROUTE 63	STATE MO
DISTRICT SE	SHEET NO. 1
COUNTY HOWELL	
JOB NO. JSE0004	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

LENGTH OF PROJECT

BEGINNING OF PROJECT	LOG MILE	292.959
END OF PROJECT	LOG MILE	297.664

APPARENT LENGTH 24,842.40 FEET

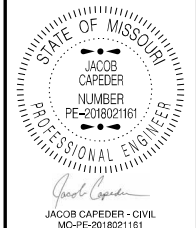
EQUATIONS AND EXCEPTIONS:

TOTAL CORRECTIONS	0.00 FEET
NET LENGTH OF PROJECT	28,842.40 FEET
STATE LENGTH	4.705 MILES

FOR INFORMATION ONLY
ESTIMATED DISTURBED ACRES 0 ACRES



ESTIMATE FACTORS FOR ASPHALTIC MIXTURES	
SP125C PG70-22	2.025 TONS/CY
BITUMINOUS FOG SEAL	0.15 GAL/SY
TACK COAT	0.10 GAL/SY
FOR INFORMATIONAL PURPOSES ONLY	



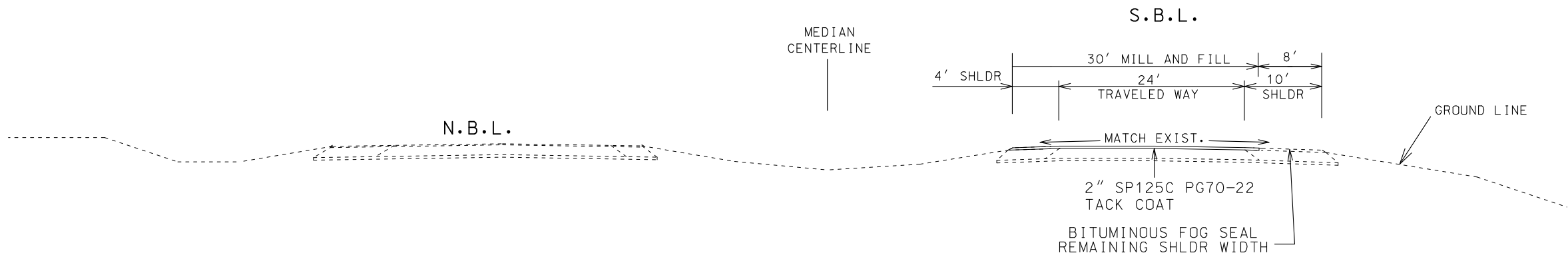
DATE PREPARED 8/11/2025	
ROUTE 63	STATE MO
DISTRICT SE	SHEET NO. 2
COUNTY HOWELL	
JOB NO. JSE0004	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

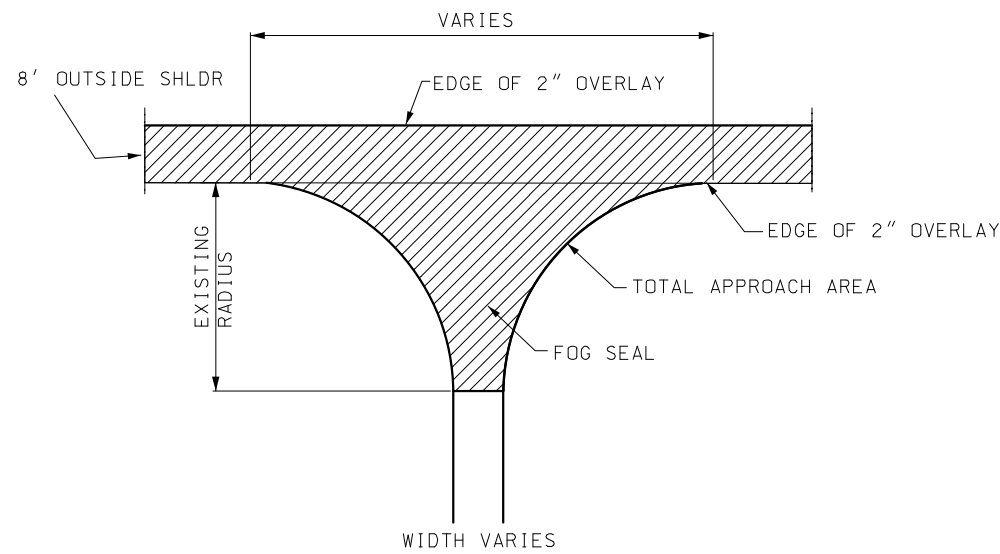
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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



TYPICAL SECTION - RTE. 63
LOG MI. 292.959 TO LOG MI. 297.664 - SBL



TYPICAL C.R. AND
PRIVATE ENTRANCES

- NOTES:
- COLDMILL TRAVELED WAY, INSIDE SHOULDER, AND 2' OF OUTSIDE SHOULDER. BITUMINOUS FOG SEAL IS TO BE PLACED ON THE REMAINING WIDTH OF EXISITING NON-COLDMILLED SHOULDER
 - 2" SP125C SHALL BE PLACED IN ONE LIFT
 - FOG SEAL APPLICATION RATE OF 0.15 GAL/SY.
 - MILLED AREAS MUST BE OVERLAYED THE SAME DAY.
 - NO TRAFFIC IS TO BE ON MILLED SURFACES ON ROUTE 63 EXCEPT AT ENTRANCES AS APPROVED BY ENGINEER

ASPHALT PAVEMENT										
LOG MILE	LOG MILE	LENGTH (FT)	ASPHALT TRAVELED WAY WIDTH (FT)	ASPHALT SHOULDER WIDTH (FT)	FOG SEAL WIDTH (FT)	OVERLAY DEPTH (IN)	SP125C 2" PG70-22 2.025 TONS/CY (TONS)	TACK COAT 0.10 GAL/SY (GAL)	FOG SEAL 0.15 GAL/SY (GAL)	REMARKS
292.959	293.040	428	24	6	8	2	160.50	142.67	57.07	RTE 63SB
293.040	293.130	476	24	2	8	2	154.70	137.52	63.47	RTE 63SB - MEDIAN OPENING AT CR 2720
293.130	293.160	159	24	6	8	2	59.63	53.00	21.20	RTE 63SB
293.160	293.240	423	24	2	8	2	137.48	122.20	56.40	RTE 63SB - MEDIAN OPENING AT CR 5500
293.240	293.740	2640	24	6	8	2	990.00	880.00	352.00	RTE 63SB
293.740	293.840	528	24	2	8	2	171.60	152.54	70.40	RTE 63SB - MEDIAN OPENING AT CR 5460
293.840	293.910	370	24	6	8	2	138.75	123.34	49.34	RTE 63SB
293.910	294.000	476	24	2	8	2	154.70	137.52	63.47	RTE 63SB - MEDIAN OPENING AT CR 2600
294.000	294.710	3749	24	6	8	2	1405.88	1249.67	499.87	RTE 63SB
294.710	294.950	1268	24	2	8	2	412.10	366.32	169.07	RTE 63SB - MEDIAN OPENING AT ROUTE UU
294.950	295.490	2852	24	6	8	2	1069.50	950.67	380.27	RTE 63SB
295.490	295.570	423	24	2	8	2	137.48	122.20	56.40	RTE 63SB - MEDIAN OPENING AT CR 1310
295.570	295.770	1056	24	6	8	2	396.00	352.00	140.80	RTE 63SB
295.770	295.850	423	24	2	8	2	137.48	122.20	56.40	RTE 63SB - MEDIAN OPENING AT CR 5320
295.850	296.570	3802	24	6	8	2	1425.75	1267.34	506.94	RTE 63SB
296.570	296.670	529	24	2	8	2	171.93	152.83	70.54	RTE 63SB - MEDIAN OPENING AT CR 5240
296.670	297.220	2905	24	6	8	2	1089.38	968.34	387.34	RTE 63SB
297.220	297.420	1056	24	2	8	2	343.20	305.07	140.80	RTE 63SB - MEDIAN OPENING @ 2 CROSSOVERS
297.420	297.530	581	24	6	8	2	217.88	193.67	77.47	RTE 63SB
297.530	297.664	708	24	2	8	2	230.10	204.54	94.40	RTE 63SB - MEDIAN OPENING @ CROSSOVER
293.066	293.078	65	-	-	20	-	-	-	21.67	ASPHALT APRON @ PRIVATE ENTRANCE
293.186	293.205	100	-	-	40	-	-	-	66.67	ASPHALT APRON @ PRIVATE ENTRANCE
293.246	293.260	75	-	-	35	-	-	-	43.75	ASPHALT APRON @ CR 5500
293.266	293.273	35	-	-	10	-	-	-	5.84	ASPHALT APRON @ PRIVATE ENTRANCE
293.826	293.848	115	-	-	40	-	-	-	76.67	ASPHALT APRON @ CR 5460
294.025	294.042	90	-	-	45	-	-	-	67.50	ASPHALT APRON @ PRIVATE ENTRANCE
294.204	294.211	35	-	-	15	-	-	-	8.75	ASPHALT APRON @ PRIVATE ENTRANCE
294.284	294.289	25	-	-	10	-	-	-	4.17	ASPHALT APRON @ PRIVATE ENTRANCE
294.625	294.629	20	-	-	10	-	-	-	3.34	ASPHALT APRON @ PRIVATE ENTRANCE
294.763	294.775	65	-	-	20	-	-	-	21.67	ASPHALT APRON @ PRIVATE ENTRANCE
294.804	294.816	65	-	-	20	-	-	-	21.67	ASPHALT APRON @ PRIVATE ENTRANCE
294.823	294.834	60	-	-	20	-	-	-	20.00	ASPHALT APRON @ CR 5360
294.943	294.958	80	-	-	15	-	-	-	20.00	ASPHALT APRON @ PRIVATE ENTRANCE
294.963	294.978	80	-	-	15	-	-	-	20.00	ASPHALT APRON @ PRIVATE ENTRANCE
295.143	295.152	50	-	-	20	-	-	-	16.67	ASPHALT APRON @ PRIVATE ROAD 5346
295.303	295.312	50	-	-	10	-	-	-	8.34	ASPHALT APRON @ PRIVATE ENTRANCE
295.423	295.431	40	-	-	14	-	-	-	9.34	ASPHALT APRON @ PRIVATE ENTRANCE
295.582	295.588	30	-	-	10	-	-	-	5.00	ASPHALT APRON @ PRIVATE ENTRANCE
295.842	295.858	85	-	-	40	-	-	-	56.67	ASPHALT APRON @ CR 5320
296.523	296.529	30	-	-	10	-	-	-	5.00	ASPHALT APRON @ PRIVATE ENTRANCE
296.583	296.590	35	-	-	15	-	-	-	8.75	ASPHALT APRON @ PRIVATE ENTRANCE
296.663	296.679	85	-	-	35	-	-	-	49.59	ASPHALT APRON @ CR 5240
296.682	296.691	50	-	-	15	-	-	-	12.50	ASPHALT APRON @ PRIVATE ENTRANCE
296.723	296.733	55	-	-	15	-	-	-	13.75	ASPHALT APRON @ PRIVATE ENTRANCE
296.803	296.821	95	-	-	20	-	-	-	31.67	ASPHALT APRON @ PRIVATE ENTRANCE
296.823	296.841	95	-	-	20	-	-	-	31.67	ASPHALT APRON @ PRIVATE ENTRANCE
296.984	296.992	40	-	-	15	-	-	-	10.00	ASPHALT APRON @ PRIVATE ENTRANCE
297.083	297.098	80	-	-	30	-	-	-	40.00	ASPHALT APRON @ PRIVATE ENTRANCE
297.143	297.157	75	-	-	15	-	-	-	18.75	ASPHALT APRON @ PRIVATE ENTRANCE
297.242	297.257	80	-	-	20	-	-	-	26.67	ASPHALT APRON @ PRIVATE ROAD 5140
297.403	297.418	80	-	-	15	-	-	-	20.00	ASPHALT APRON @ PRIVATE ROAD 5140
297.643	297.653	55	-	-	10	-	-	-	9.17	ASPHALT APRON @ PRIVATE ENTRANCE
						TOTALS	9004.04	8003.64	4088.89	
						USE	9004.1	8004	4089	
LOG MILES ARE APPROXIMATE.										

EDGE LINE RUMBLE STRIPS						
LOG MILE	LOG MILE	LENGTH (FT)	LOCATION	EXCEPTIONS		EDGE LINE RUMBLES (STA)
				INSIDE LINE (FT)	OUTSIDE LINE (FT)	
292.959	297.664	24843	LT/RT	8251	6108	353.3
					TOTAL	353.3
					USE	353.3
SEE STANDARD 626.00 FOR INSTALLATION DETAILS LOG MILES ARE APPROXIMATE						

MOBILIZATION
1 LUMP SUM

STATE OF MISSOURI

JACOB CAPEDEER

NUMBER
PE-2018021161

PROFESSIONAL ENGINEER

Jacob Capedeer

JACOB CAPEDEER - CIVIL

MO-PE-2018021161

DATE PREPARED
8/11/2025

ROUTE
63

DISTRICT
SE

STATE
MO

SHEET NO.
3

COUNTY
HOWELL

JOB NO.
JSE0004

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

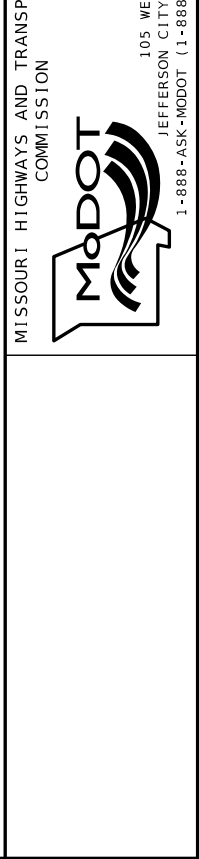
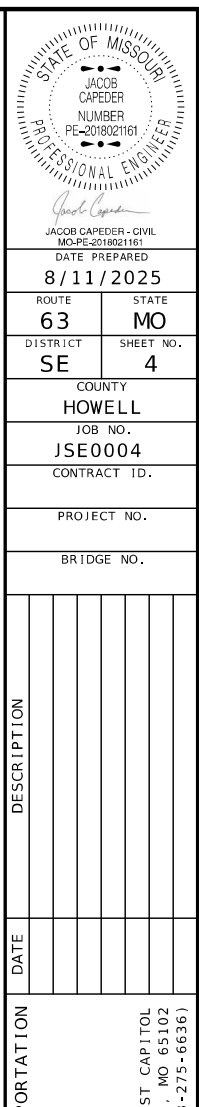
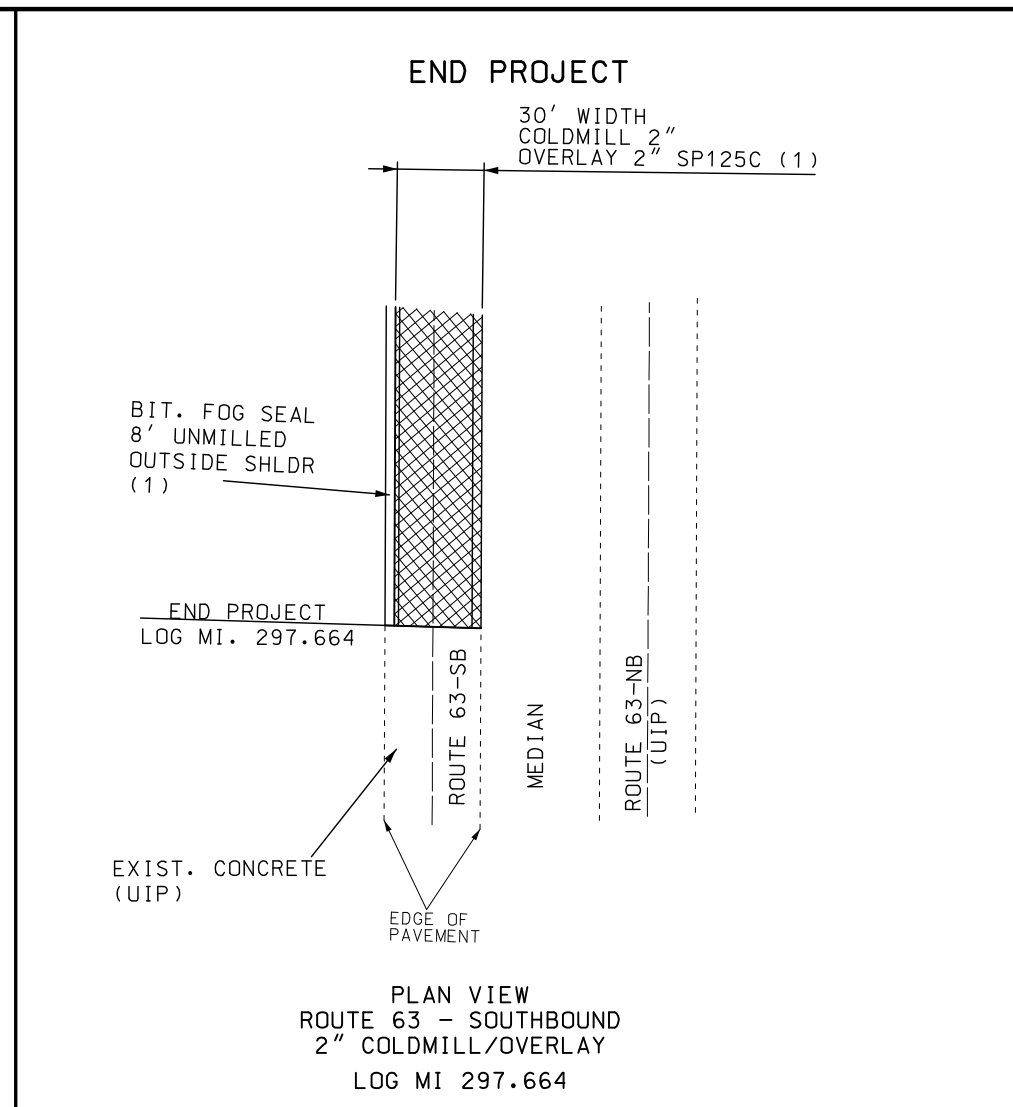
JEFFERSON CITY, MO 65102

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

LOG MILES ARE APPROXIMATELOG MILES ARE APPROXIMATE

SUMMARY OF QUANTITIES
SHEET 2 OF 3

SIGN	SIZE IN.	AREA SQ. FT.	QTY EACH	TOTAL AREA SQ. FT.	RELOC EACH	TOTAL RELOC SQ. FT.	SIGN NO.	DESCRIPTION	SIGN	SIZE IN.	AREA SQ. FT.	QTY EACH	TOTAL SQ. FT.	RELOC EACH	TOTAL RELOC SQ. FT.	SIGN NO.	DESCRIPTION	ITEM NUMBER	TOTAL QTY	EFFECTIVE: 07-01-2025
WARNING SIGNS									GUIDE SIGNS											DESCRIPTION
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)	E05-1	36X48	12.00						GORE EXIT	6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)	E05-2	48X36	12.00						EXIT OPEN	6122009		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)	E05-2a	48X36	12.00						EXIT CLOSED	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)	GO20-1	60X24	10.00	1	10.00				ROAD WORK NEXT XX MILES	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)	GO20-2	48X24	8.00	1	8.00				END ROAD WORK	6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)	GO20-4	36X18	4.50						PILOT CAR FOLLOW ME	6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)	GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)	GO20-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW	6122020		REPLACEMENT SAND BARREL
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	GO20-5aP	36X24	6.00	4	24.00				WORK ZONE (PLAQUE)	6122030		IMPACT ATTENUATOR (RELOCATION)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-8a	24X18	3.00						END DETOUR	6122040		WORK ZONE CRASH CUSHION (NARROW)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4-9L	48X36	12.00						DETOUR (LEFT)	6122041		WORK ZONE CRASH CUSHION (RELOCATION)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-9R	48X36	12.00						DETOUR (RIGHT)	6123001	1	TRUCK MOUNTED ATTENUATOR (TMA)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)	MO4-9P	48X12	4.00						STREET NAME (PLAQUE)	6161012		BUOYS (BOATS KEEP OUT)
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)	6161013		BUOYS (NO WAKE)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4-10L	48X18	6.00						DETOUR ARROW (RIGHT)	6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)	MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)	6161020		CHANNELIZER (DRUM-LIKE)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)	REGULATORY SIGNS									6161022		CHANNELIZER (CONE)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-1	48X48	13.25						STOP	6161025	100	CHANNELIZER (TRIM-LINE)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)	R1-2	48TRI.	6.93						YIELD	6161026		CHANNELIZER (VERTICAL PANEL)
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)	R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)	6161030	6	TYPE 3 MOVEABLE BARRICADE
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)	R1-3P	30X12	2.50						ALL WAY (PLAQUE)	6161033	15	DIRECTION INDICATOR BARRICADE
WO3-4	48X48	16.00						BE PREPARED TO STOP	R2-1	36X48	12.00	8	96.00				SPEED LIMIT XX	6161040	2	FLASHING ARROW PANEL
WO3-5	48X48	16.00						SPEED LIMIT AHEAD	R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)	6161047		TYPE 3 OBJECT MARKER
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)	R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)	6161055		SEQUENTIAL FLASHING WARNING LIGHT
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT												



Sign Spacing, Device Spacing
and Channelizing Taper Lengths

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

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES					
SPEED MPH	MINIMUM TAPER LENGTHS (L) FOR LANE WIDTHS (W)			MAXIMUM CHANNELIZER SPACING	
	10 FT	11 FT	12 FT	THROUGH TAPER	THROUGH WORK AREA
0-35	205	225	245	35	40
40-45	450	495	540	40	80
50-55	550	605	660	50	80
60-70	700	770	840	60	120

NOTES:

DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.

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

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

LONGITUDINAL BUFFER SPACE (B)	
SPEED MPH	BUFFER SPACE
0-35	250
40-45	360
50-55	495
60-70	730

TAPER LENGTH (L):

L = WS FOR 40 MPH OR MORE

L = $\frac{WS^2}{60}$ FOR 35 MPH OR LESS

FOR SHOULDER TAPER USE L/3

WHERE:

L = TAPER LENGTH IN FEET

W = LATERAL SHIFT IN FEET

S = POSTED SPEED IN MPH

TRAFFIC CONTROL DEVICES

GENERAL NOTES:

- SEE STANDARD PLAN 616.10 FOR DETAILS AND ITEMS NOT SHOWN
- EXISTING SIGNS SHALL BE COVERED DURING WORKING HOURS ONLY IF IN CONFLICT WITH TRAFFIC CONTROL PLANS.
- NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING OR REMOVING SIGNS.
- CONES ALLOWABLE FOR DAYTIME OPERATIONS ONLY.
- LOCATE FLASHING ARROW PANEL AT BEGINNING OF TAPER WHEN FEASIBLE, ARROW PANELS ARE ALWAYS LOCATED BEHIND CHANNELIZERS OR CONES.

TRAFFIC CONTROL LEGEND

• SIGN (SINGLE SIDED)

• SIGN (DOUBLE SIDED)

◁ FLAGGER

▲ DIRECTION INDICATOR BARRICADE

■ CHANNELIZER

E BARRICADE

CHANGEABLE MESSAGE BOARD

FLASHING ARROW PANEL

TMA (TRUCK MOUNTED ATTENUATOR) WITH FLASHING ARROW PANEL

STATE OF MISSOURI

JACOB CAPEDEER

NUMBER

PE-201802161

PROFESSIONAL ENGINEER

JACOB CAPEDEER - CIVIL

MO-PE-201802161

DATE PREPARED

8/11/2025

ROUTE

63

STATE

MO

DISTRICT

SE

SHEET NO.

5

COUNTY

HOWELL

JOB NO.

JSE0004

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

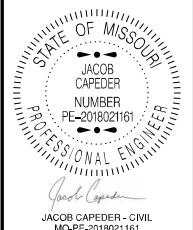
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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

NOT TO SCALE



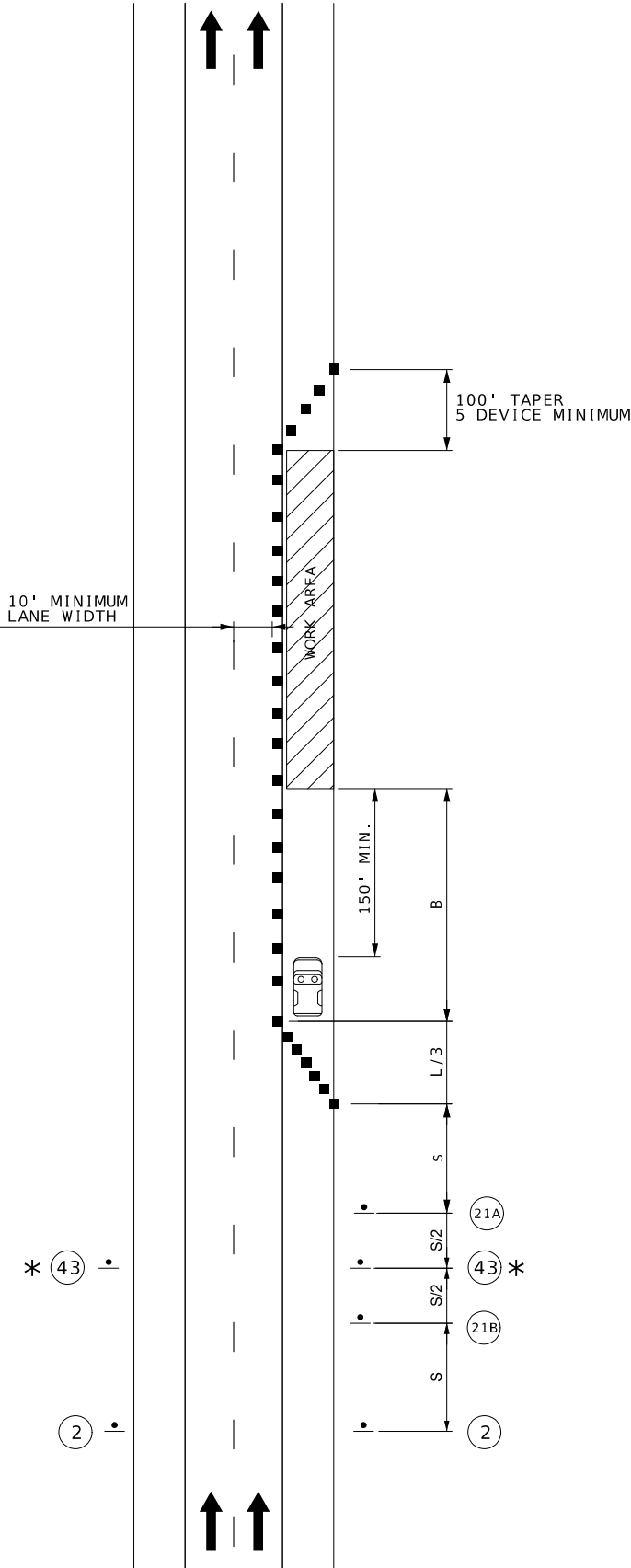
DATE PREPARED 8/11/2025	
ROUTE 63	STATE MO
DISTRICT SE	SHEET NO. 6
COUNTY HOWELL	
JOB NO. JSE0004	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DESCRIPTION	DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION



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



BRIDGE
OR
RAMP

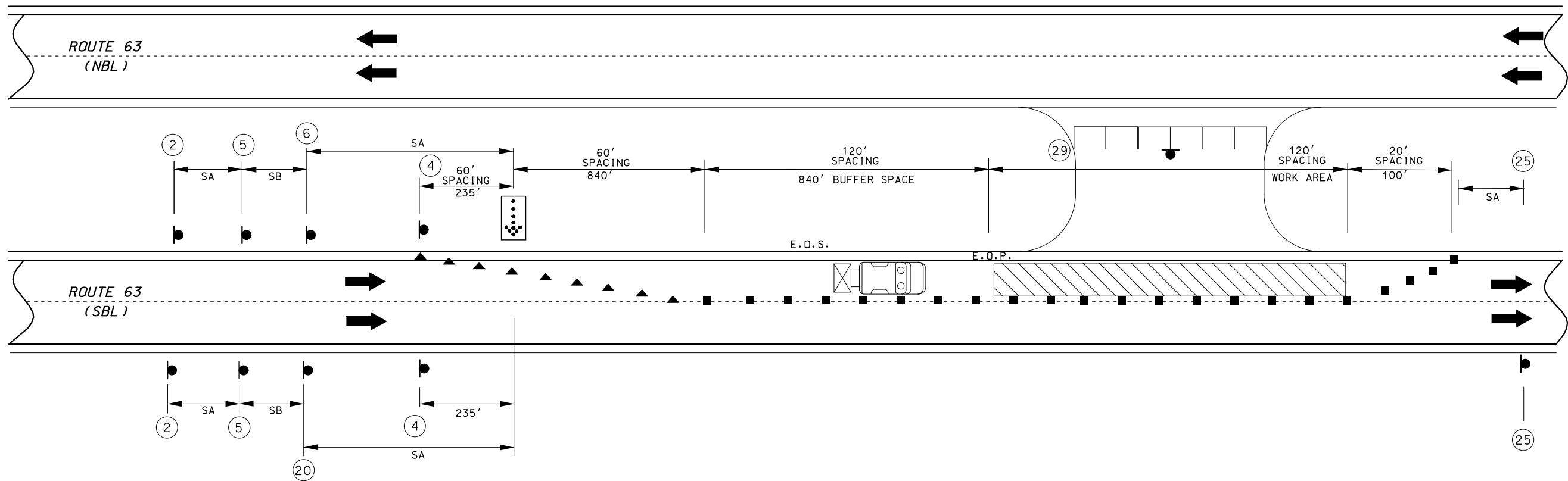
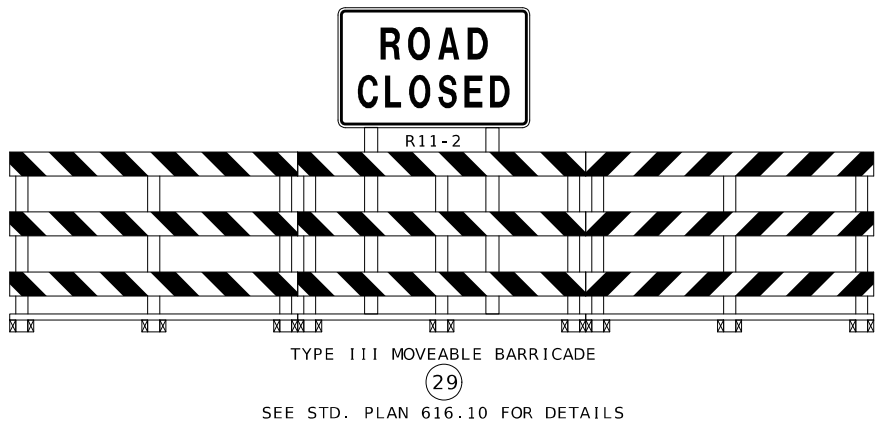
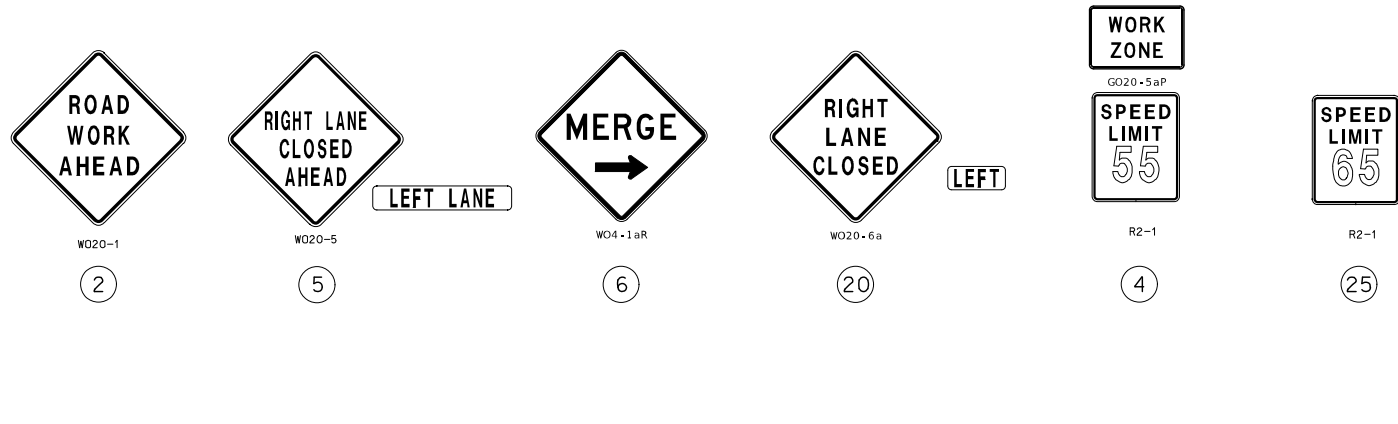


BRIDGE
OR
RAMP



PROTECTIVE VEHICLE
(TMA OPTIONAL)

SHOULDER WORK
(DIVIDED HIGHWAY)



TYPICAL LANE CLOSURE
DIVIDED HIGHWAY
ROUTE 63

SIGN SPACING FOR ADVANCE SIGN SERIES IN FEET (1) (2)		
SPEED (P) MPH	NON-DIVIDED HIGHWAYS (S)	DIVIDED HIGHWAYS (S)
0-35	200	200
40-45	350	500
50-55	500	1000
60-70	SA-1000, SB-1500, SC-2640	

NOTES:
1. SPACING MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS.

TRAFFIC CONTROL
SHEET 3 OF 4

DRAWING NOT TO SCALE. FOLLOW DIMENSIONS.

STATE OF MISSOURI

JACOB CAPEDER

NUMBER

PE-2018021161

PROFESSIONAL ENGINEER

JACOB CAPEDER - CIVIL

MO-PE-2018021161

DATE PREPARED

10/7/2025

ROUTE

63

STATE

MO

DISTRICT

SE

SHEET NO.

7

COUNTY

HOWELL

JOB NO.

JSE0004

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)

NOT TO SCALE

NOTES:

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

PROTECTIVE TRUCKS 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.

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.

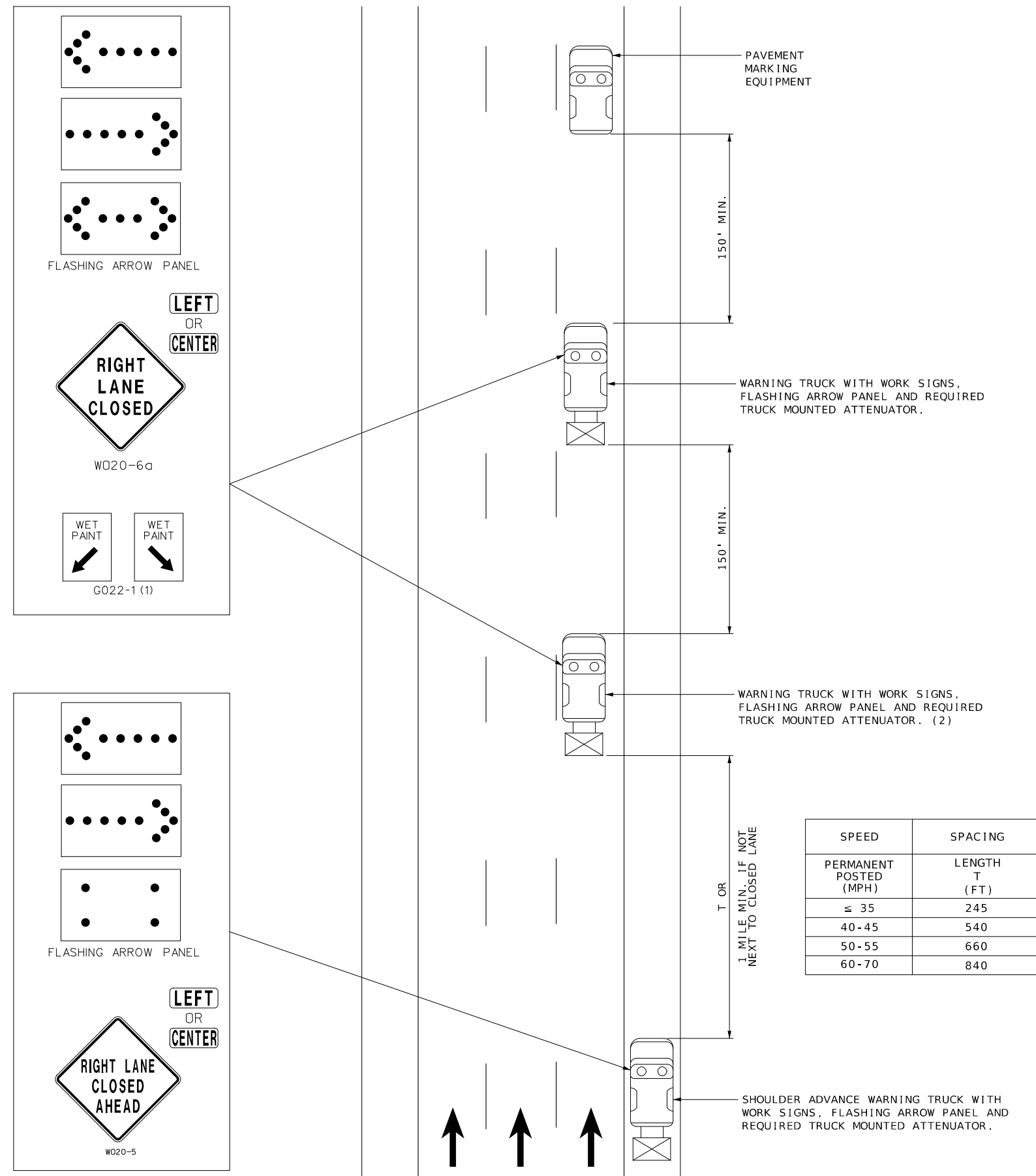
FLASHING ARROW PANELS SHALL BE INCIDENTAL TO TRUCK MOUNTED
ATTENUATORS, WHEREVER USED. NO ADDITIONAL PAYMENT WILL BE MADE.

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

A FLASHING ARROW BOARD SHALL BE USED WHEN A FREEWAY LANE IS CLOSED. WHEN MORE THAN ONE LANE CLOSED, A SEPARATE FLASHING ARROW BOARD SHALL BE USED FOR EACH CLOSED LANE.

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



SPEED	SPACING
PERMANENT POSTED (MPH)	LENGTH T (FT)
≤ 35	245
40-45	540
50-55	660
60-70	840

STRIPING ON MULTI-LANE HIGHWAY

TEMPORARY TRAFFIC CONTROL
SHEET 04 OF 04



Jacob Capeder
JACOB CAPEDE - CIVIL
MO-PE-2018021161
DATE PREPARED

8/11/2025

ROUTE	STATE
63	MO

DISTRICT	SHEET NO.
SE	8

COUNTY

HOWELL

JOB NO.
JSE0004

CONTRACT ID.

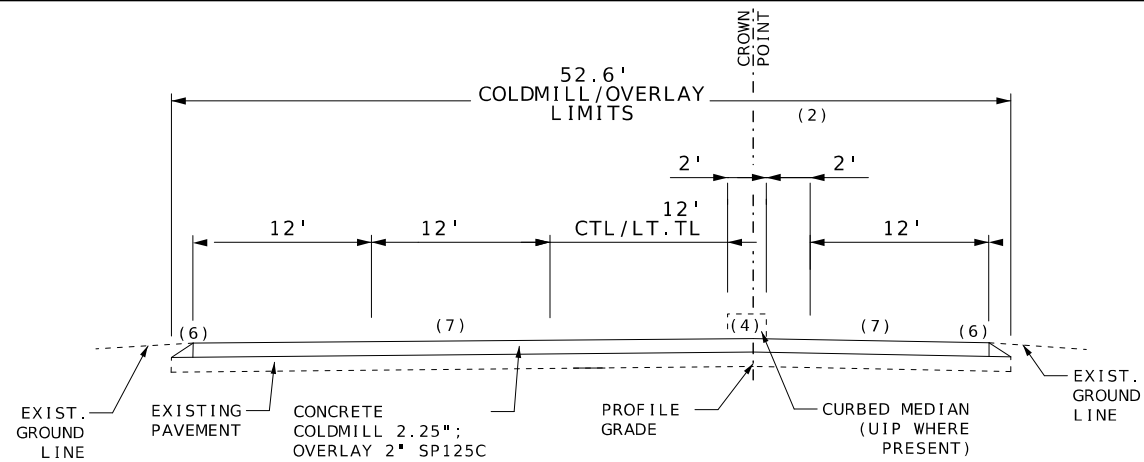
PROJECT NO.

BRIDGE NO.

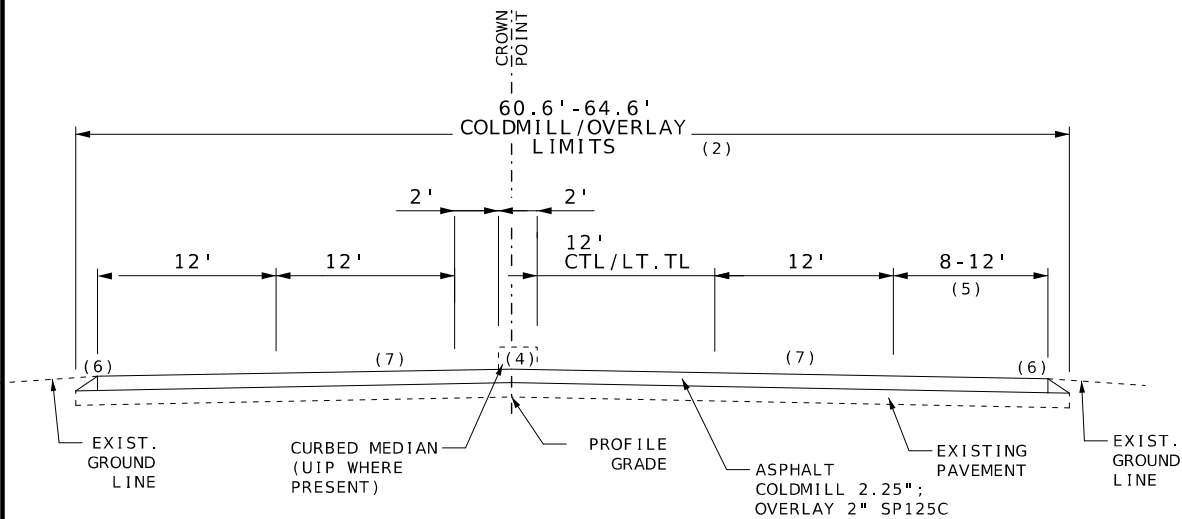
[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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



TYPICAL SECTION
ROUTE 160
LOG MI 231.473 TO LOG MI 231.513



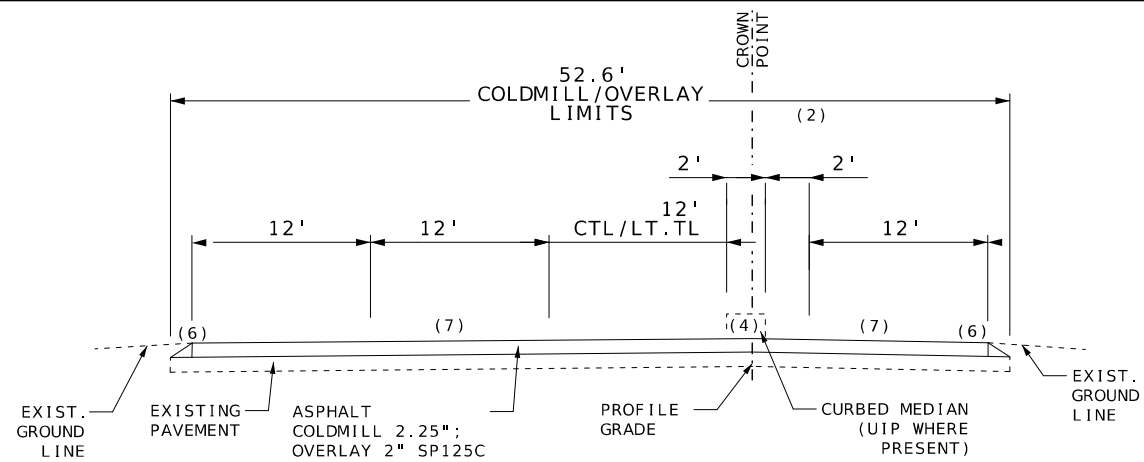
TYPICAL SECTION
ROUTE 160
LOG MI 231.524 TO LOG MI 231.554

ESTIMATE FACTORS		
ASPHALTIC CONCRETE MIX (SP125C, PG70-22)	2.025	TONS/YD3
TACK COAT, LOW TRACKING	0.10	GAL/YD2

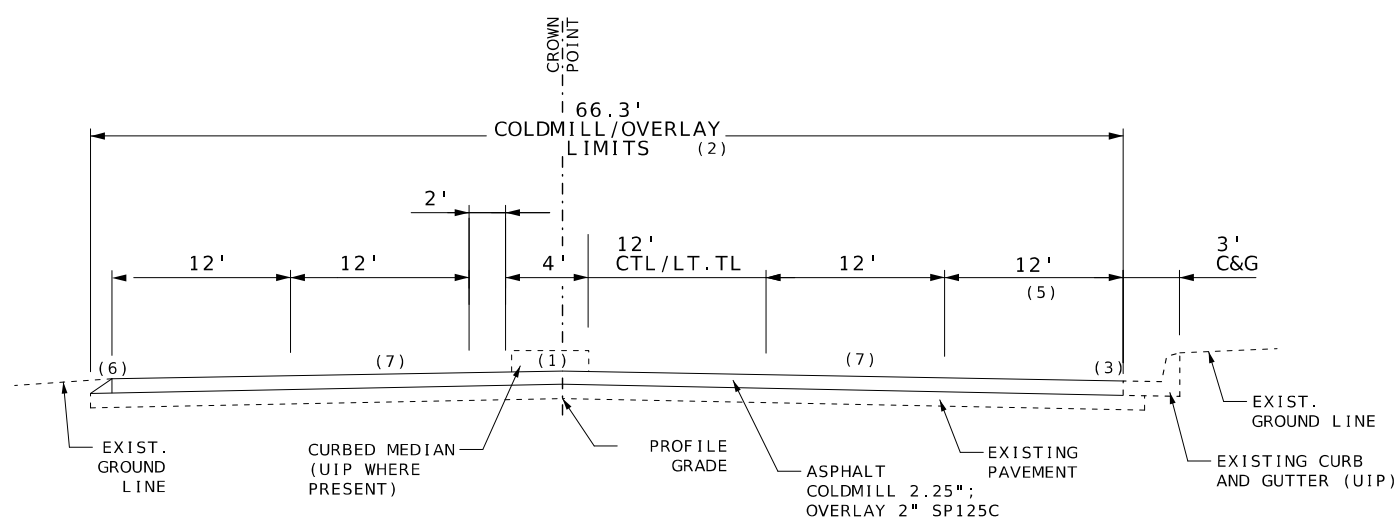
NOTES:

- (1) 4' CURBED MEDIAN, ADJACENT TO LEFT TURN LANES, TRANSITIONS RT. TO LT. AND VARIES IN WIDTH BETWEEN BACK TO BACK LEFT TURN LANES.
 - (2) COLDMILL/OVERLAY FROM EOP TO EOP WHERE CURBED MEDIAN IS NOT PRESENT.
 - (3) PROVIDE SMOOTH TRANSITION BETWEEN EXISTING CONCRETE CURB/GUTTER PROFILE AND NEW TRAVELED WAY ASPHALT.
 - (4) 2' CURBED MEDIAN, ADJACENT TO LEFT TURN LANES, TRANSITIONS RT. TO LT.
 - (5) TAPERS FROM 8' AT LM 231.524 TO 12' AT LM 231.554.
 - (6) REFER TO SHOULDER DETAIL ON TYPICAL SECTION SHEET 2 FOR ADDITIONAL DETAILS.
 - (7) MATCH EXISTING TRAVELED WAY CROSS SLOPE.
- PROVIDE SMOOTH TRANSITION BETWEEN EXISTING CONCRETE PAVEMENT AND NEW TRAVELED WAY ASPHALT.
 - COLDMILLED AREAS SHALL BE OVERLAYED THE SAME DAY.
 - NO TRAFFIC SHALL BE ALLOWED ON COLDMILLED TRAVELED WAY EXCEPT AT ENTRANCES AND MEDIAN OPENINGS AS APPROVED BY ENGINEER.

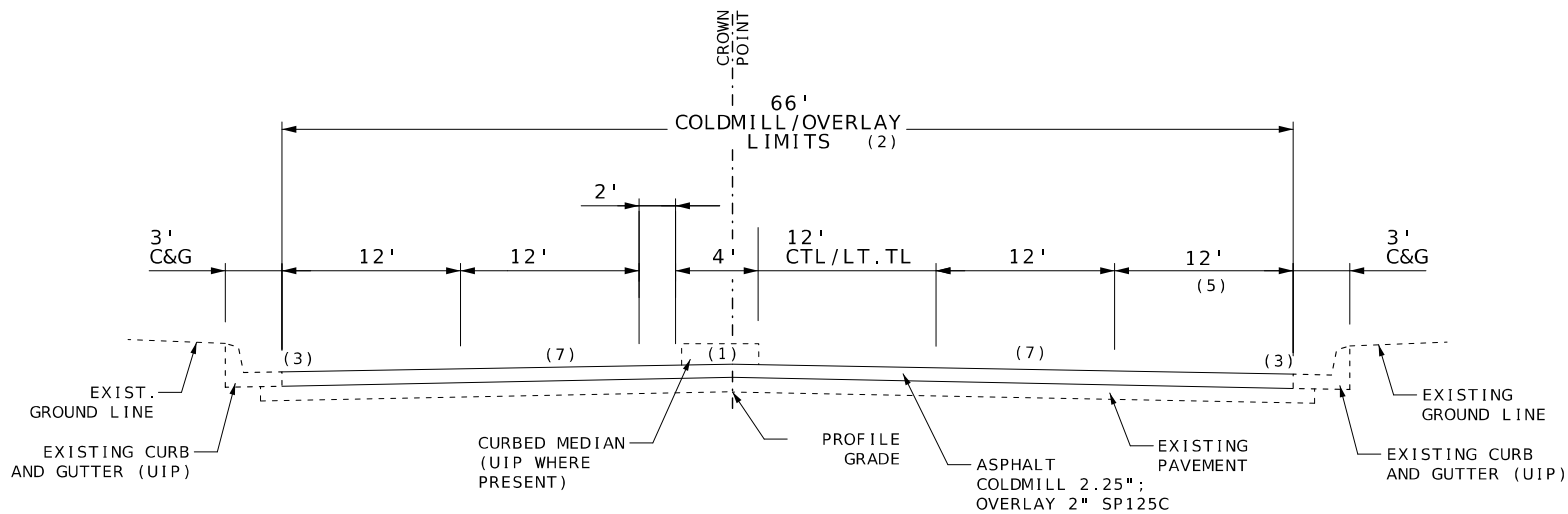
LOG MILE LOCATIONS ARE APPROXIMATE. ADJUST AS DIRECTED BY ENGINEER TO FIT FIELD CONDITIONS.



TYPICAL SECTION
ROUTE 160
LOG MI 231.513 TO LOG MI 231.524

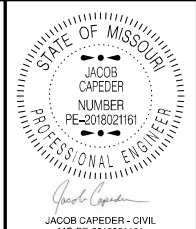


TYPICAL SECTION
ROUTE 160
LOG MI 231.554 TO LOG MI 231.566



TYPICAL SECTION
ROUTE 160
LOG MI 231.566 TO LOG MI 231.854

TYPICAL SECTION SHEET
SHEET 01 OF 02
DRAWING NOT TO SCALE

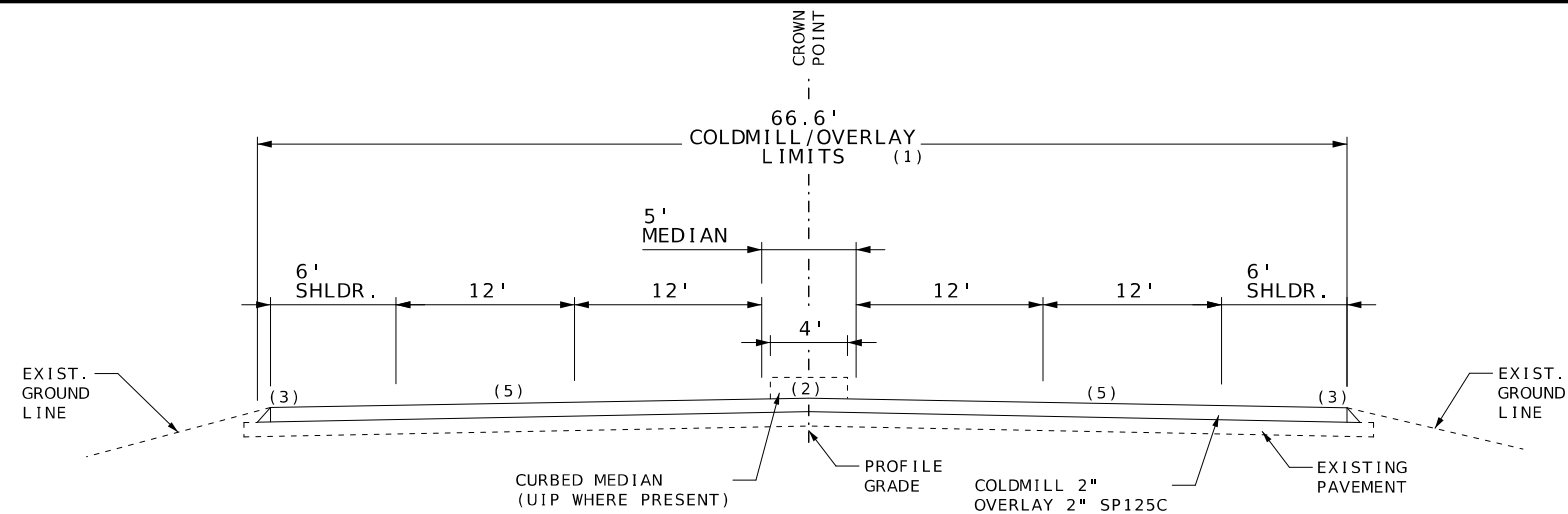


DATE PREPARED
8/11/2025
ROUTE 160
STATE MO
DISTRICT SE
SHEET NO. 2
COUNTY HOWELL
JOB NO. JSE0006
CONTRACT ID.

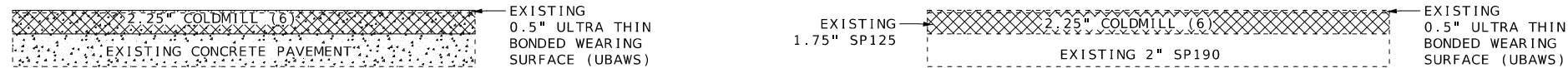
PROJECT NO.
BRIDGE NO.

DESCRIPTION	DATE

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

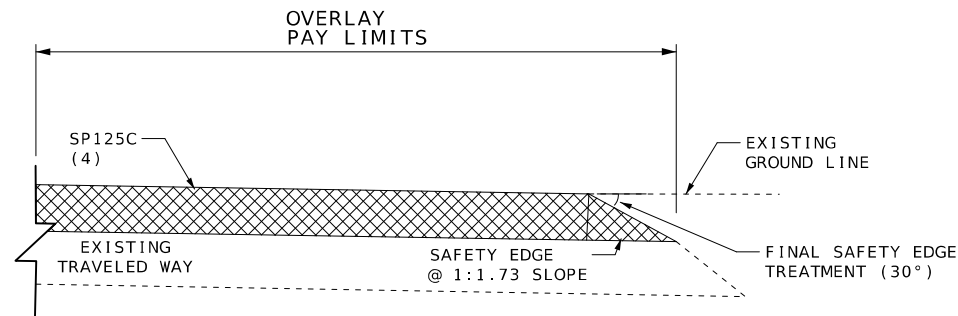


TYPICAL SECTION
ROUTE 63
LOG MI 310.279 TO LOG MI 310.340



TYPICAL SECTION
CONCRETE COLDMILL DETAIL
ROUTE 160
LOG MI 231.473 TO LOG MI 231.513

TYPICAL SECTION
ASPHALT COLDMILL DETAIL
ROUTE 160
LOG MI 231.513 TO LOG MI 231.854



TYPICAL SECTION
SHOULDER DETAIL
ROUTE 160
LOG MI 231.473 TO LOG MI 231.566
ROUTE 63
LOG MI 310.279 TO LOG MI 310.340

ESTIMATE FACTORS

ASPHALTIC CONCRETE MIX (SP125C, PG70-22)	2.025 TONS/YD3
TACK COAT, LOW TRACKING	0.10 GAL/YD2

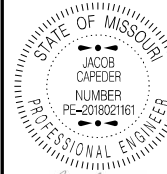
 COLDMILL AND OVERLAY
  CONCRETE

NOTES:

- (1) COLDMILL/OVERLAY FROM EOS TO EOS WHERE CURBED MEDIAN IS NOT PRESENT.
- (2) 4' CURBED MEDIAN AT LM 310.279 TO LM 310.289.
- (3) REFER TO "SHOULDER DETAIL" ON TYPICAL SECTION SHEET 2 FOR ADDITIONAL DETAILS.
- (4) REFER TO TYPICAL SECTION SHEETS 1 AND 2 FOR ADDITIONAL COLDMILL/OVERLAY DETAILS.
- (5) MATCH EXISTING TRAVELED WAY CROSS SLOPE,
- (6) 2.25" COLDMILL; 2" ASPHALT OVERLAY.

LOG MILE LOCATIONS ARE APPROXIMATE. ADJUST AS DIRECTED BY ENGINEER TO FIT FIELD CONDITIONS.

TYPICAL SECTION SHEET
SHEET 02 OF 02
DRAWING NOT TO SCALE



JACOB CAPEDER - CIVIL
MO-PE-2018021161

DATE PREPARED
8/11/2025

ROUTE 160	STATE MO
DISTRICT SE	SHEET NO. 2

COUNTY
HOWELL

JOB NO.
JSE0006

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)

PERMANENT PAVEMENT MARKING												
LOG MILE	LOG MILE	LENGTH (FT)	CLASS 2 HIGH BUILD WATERBORNE TYPE L BEADS 4" YELLOW (LF)	CLASS 2 HIGH BUILD WATERBORNE TYPE L BEADS 6" WHITE (LF)	PREFORMED THERMOPLASTIC PVMT MARKING 6" WHITE (LF)	PREFORMED THERMOPLASTIC PVMT MARKING 24" WHITE (LF)	PREFORMED THERMOPLASTIC PVMT MARKING LT/RT ARROW (EA)	PREFORMED THERMOPLASTIC PVMT MARKING COMBINATION STR/LT/RT ARROW (EA)	PREFORMED THERMOPLASTIC PVMT MARKING WORD "ONLY" (EA)	PAVEMENT MARKING REMOVAL (LF)	PVMT MARKING REMOVAL SYMBOLS (EA)	REMARKS
231.473	231.983	VARIES	4851	-	-	-	-	-	-	1256	-	RTE 160 - YELLOW, CL SOLID [MAINLINE]
231.473	231.983	2693	63	-	-	-	-	-	-	-	-	RTE 160 - YELLOW, CL INTERMITTENT [MAINLINE]
VARIES	-	-	752	-	-	-	-	-	-	644	-	RTE 160 - YELLOW, SOLID [SIGNALIZED SIDE ROADS]
231.473	231.983	2693	-	3279	-	-	-	-	-	2258	-	RTE 160 - WHITE, SOLID [MAINLINE]
VARIES	-	-	-	772	-	-	-	-	-	1175	-	RTE 160 - WHITE, SOLID [SIGNALIZED SIDE ROADS]
231.473	231.983	2693	-	885	-	-	-	-	-	404	-	RTE 160 - WHITE, INTERMITTENT [MAINLINE]
231.473	231.983	2878	-	-	-	-	18	-	-	-	7	RTE 160 - ARROW, LT TURN [MAINLINE]
VARIES	-	-	-	-	-	-	3	-	-	-	3	RTE 160 - ARROW, LT TURN [SIGNALIZED SIDE ROADS]
231.473	231.983	2693	-	-	-	-	2	-	-	-	-	RTE 160 - ARROW, RT TURN [MAINLINE]
VARIES	-	-	-	-	-	-	1	-	-	-	1	RTE 160 - ARROW, RT TURN [SIGNALIZED SIDE ROADS]
231.473	231.983	2693	-	-	-	-	-	2	-	-	2	RTE 160 - ARROW, MODIFIED [MAINLINE]
231.473	231.983	2693	-	-	-	264	-	-	-	504	-	RTE 160 - STOP BAR [MAINLINE]
VARIES	-	-	-	-	-	189	-	-	-	1488	-	RTE 160 - STOP BAR [SIGNALIZED SIDE ROADS]
231.473	231.983	2693	-	-	315	-	-	-	-	140	-	RTE 160 - CROSSWALK [MAINLINE]
VARIES	-	-	-	-	347	-	-	-	-	432	-	RTE 160 - CROSSWALK [SIGNALIZED SIDE ROADS]
231.473	231.983	2693	-	-	-	-	-	-	1	-	-	RTE 160 - WORD "ONLY"
231.473	231.983	2693	-	34	-	-	-	-	-	-	-	RTE 160/63 - WHITE, INTERMITTENT DOTTED
310.279	310.340	320	640	-	-	-	-	-	-	-	-	ROUTE 63 - YELLOW, SOLID
310.279	310.340	320	-	640	-	-	-	-	-	-	-	ROUTE 63 - WHITE, SOLID
310.279	310.340	320	-	160	-	-	-	-	-	-	-	ROUTE 63 - WHITE, INTERMITTENT
			TOTAL	6306	5770	662	453	24	2	8301	13	
			USE	6306	5770	662	453	24	1	8301	13	
LOG MILES ARE APPROXIMATE SEE PAVEMENT MARKING LOG JSP.												

COLDMILLING							
LOG MILE	LOG MILE	LOC	LENGTH (FT)	WIDTH (FT)	COLDMILLING CONCRETE (SY)	COLDMILLING 3" OR LESS (SY)	REMARKS
231.473	231.513	EB/WB/CTL	210	52	1213.34	-	RTE 160 - (3) 12' LANES, 12' CENTER/LT.TURN LANE (CTL/LT)
231.513	231.524	EB/WB/CTL	59	52	-	340.89	RTE 160 - (3) 12' LANES, 12' CTL/LT
231.513	231.554	EB/WB/CTL	217	VARIES	-	951.67	RTE 160 - (3) 12' LANES, (1) 8'-12' TRANSITION LANE, 12' CTL/LT
231.554	231.854	EB/WB/CTL	1586	66	-	11630.67	RTE 160 - (4) 12' LANES, 12' CTL/LT
231.473	231.854	CTL	1419	VARIES	-	(452.24)	RTE 160, EXCEPTIONS - LESS EXISTING RAISED MEDIANS
231.523	231.542	LT	VARIES	46	-	234.44	RTE 160 - ASPHALT PVT/COMM ENTRANCE @ O'REILLY/COLTONS
310.279	310.340	EB/WB	320	66	-	2346.67	ROUTE 63 - (4) 12' LN, (2) 8' SHLDR, 6' MEDIAN
310.279	310.289	MEDIAN	52	(4)	-	(94.23)	ROUTE 63, EXCEPTION - LESS EXISTING RAISED MEDIAN
-	310.279	RT	VARIES	83	-	687.78	ROUTE 63 - ASPHALT CITY/COUNTY ROAD @ LONDON LN
			TOTAL		1213.34	15645.65	
			USE		1214	15646	
LOG MILES ARE APPROXIMATE.							

MOBILIZATION
1 LUMP SUM

PAVEMENT AND TACK									
LOG MILE	LOG MILE	LOC	LENGTH (FT)	WIDTH (FT)	MEASURED AREA (SF)	THICK (IN)	ASPHALTIC CONCRETE SP125C, PG 70-22 (2.025 TONS/CY) (TONS)	TACK LOW TRACKING (0.10 GAL/SY) (GAL)	REMARKS
231.473	231.524	EB/WB/CTL	270	52	-	2.00	175.50	156.00	RTE 160 - (3) 12' LANES, 12' CENTER/LT.TURN LANE (CTL/LT)
231.524	231.554	EB/WB/CTL	159	VARIES	8,565	2.00	107.07	95.17	RTE 160 - (3) 12' LANES, (1) 8'-12' TRANSITION LANE, 12' CTL/LT
231.554	231.854	EB/WB/CTL	1,586	66	-	2.00	1,308.45	1,163.07	RTE 160 - (4) 12' LANES, 12' CTL/LT
231.473	231.854	CTL	1,419	VARIES	-	2.00	(50.88)	(45.24)	RTE 160, EXCEPTIONS - LESS EXISTING RAISED MEDIAN
231.473	231.554	LT/RT	-	-	-	-	5.65	-	SAFETY EDGE [2% OF MAINLINE TONNAGE] - RTE 160
231.523	231.542	LT	VARIES	46	2,110	2.00	26.38	23.45	RTE 160 - PVT/COMM ENTRANCE @ O'REILLY/COLTONS
310.279	310.340	EB/WB/MEDIAN	320	66	-	2.00	264.00	234.67	ROUTE 63 - (4) 12' LN, (2) 8' SHLDR, 6' MEDIAN
310.279	310.289	MEDIAN	52	(4)	-	2.00	(2.60)	(2.32)	ROUTE 63, EXCEPTION - LESS EXISTING RAISED MEDIAN
-	310.279	RT	VARIES	83	-	2.00	77.38	68.78	ROUTE 63 - CITY/COUNTY ROAD @ LONDON LN
310.279	310.340	LT/RT	-	-	-	-	5.28	-	SAFETY EDGE [2% OF MAINLINE TONNAGE] - RTE 63
						TOTAL	1916.2	1693.6	
						USE	1916.2	1694	
LOG MILES ARE APPROXIMATE.									

SUMMARY OF QUANTITIES
SHEET 1 OF 2

STATE OF MISSOURI

JACOB CAPEDEER

NUMBER PE-2018021161

PROFESSIONAL ENGINEER

Jacob Capedeer

JACOB CAPEDEER - CIVIL

MO-PE-2018021161

DATE PREPARED

8/11/2025

ROUTE 160

DISTRICT SE

STATE MO

SHEET NO. 3

COUNTY
HOWELL

JOB NO.
JSE0006

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)

MoDOT

SIGN	SIZE	AREA	QTY	TOTAL	QTY	TOTAL	SIGN	DESCRIPTION	SIGN	SIZE	AREA	QTY	TOTAL	QTY	TOTAL	SIGN	DESCRIPTION	ITEM	TOTAL	EFFECTIVE: 07-01-2025
IN.	SQ. FT.	EACH	SQ. FT.	EACH	SQ. FT.	NO.	IN.		SQ. FT.	EACH	SQ. FT.	EACH	SQ. FT.	NO.	NUMBER	QTY		DESCRIPTION		
WARNING SIGNS									GUIDE SIGNS									6122008		IMPACT ATTENUATOR 40 MPH (SAND BARRELS)
WO1-1L	48X48	16.00						TURN (SYMBOL LEFT)	E05-1	36X48	12.00						GORE EXIT	6122008		IMPACT ATTENUATOR 45 MPH (SAND BARRELS)
WO1-1R	48X48	16.00						TURN (SYMBOL RIGHT)	E05-2	48X36	12.00						EXIT OPEN	6122010		IMPACT ATTENUATOR 50 MPH (SAND BARRELS)
WO1-2L	48X48	16.00						CURVE (SYMBOL LEFT)	E05-2a	48X36	12.00						EXIT CLOSED	6122012		IMPACT ATTENUATOR 55 MPH (SAND BARRELS)
WO1-2R	48X48	16.00						CURVE (SYMBOL RIGHT)	GO20-1	60X24	10.00						ROAD WORK NEXT XX MILES	6122014		IMPACT ATTENUATOR 60 MPH (SAND BARRELS)
WO1-3L	48X48	16.00						REVERSE TURN (SYMBOL LEFT)	GO20-2	48X24	8.00						END ROAD WORK	6122017		IMPACT ATTENUATOR 65 MPH (SAND BARRELS)
WO1-3R	48X48	16.00						REVERSE TURN (SYMBOL RIGHT)	GO20-4	36X18	4.50						PILOT CAR FOLLOW ME	6122019		IMPACT ATTENUATOR 70 MPH (SAND BARRELS)
WO1-4L	48X48	16.00						REVERSE CURVE (SYMBOL LEFT)	GO20-4a	42X30	8.75						PILOT CAR IN USE WAIT & FOLLOW	6122020		REPLACEMENT SAND BARREL
WO1-4R	48X48	16.00						REVERSE CURVE (SYMBOL RIGHT)	GO20-4a	18X12	1.50						PILOT CAR IN USE WAIT & FOLLOW	6122030		IMPACT ATTENUATOR (RELOCATION)
WO1-4bL	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT)	GO20-5aP	36X24	6.00	2	12.00				WORK ZONE (PLAQUE)	6122040		WORK ZONE CRASH CUSHION (NARROW)
WO1-4bR	48X48	16.00						DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-8a	24X18	3.00						END DETOUR	6122041		WORK ZONE CRASH CUSHION (RELOCATION)
WO1-4cL	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT)	MO4-9L	48X36	12.00						DETOUR (LEFT)	6123001	1	TRUCK MOUNTED ATTENUATOR (TMA)
WO1-4cR	48X48	16.00						TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT)	MO4-9R	48X36	12.00						DETOUR (RIGHT)	6161012		BUOYS (BOATS KEEP OUT)
WO1-6	60X30	12.50						HORIZONTAL ARROW (SYMBOL)	MO4-9P	48X12	4.00						STREET NAME (PLAQUE)	6161013		BUOYS (NO WAKE)
WO1-6a	72X36	18.00						HORIZ. ARROW (SYMBOL ON PERMANENT BARRICADE)	MO4-10L	48X18	6.00						DETOUR ARROW (LEFT)	6161014		SPECIAL SIGN ASSEMBLY (BOATS KEEP OUT)
WO1-7	60X30	12.50						DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)	MO4-10R	48X18	6.00						DETOUR ARROW (RIGHT)	6161020		CHANNELIZER (DRUM-LIKE)
WO1-7a	72X36	18.00						DOUBLE HEAD HORIZ. ARROW (SYMBOL ON PERM. BARR.)	REGULATORY SIGNS									6161022		CHANNELIZER (CONE)
WO1-8	18X24	3.00						CHEVRON (SYMBOL)	R1-1	48X48	13.25						STOP	6161025	200	CHANNELIZER (TRIM-LINE)
WO1-8a	30X36	7.50						CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)	R1-2	48TRI.	6.93						YIELD	6161026		CHANNELIZER (VERTICAL PANEL)
WO3-1	48X48	16.00						STOP AHEAD (SYMBOL)	R1-2a	36X36	9.00						TO ONCOMING TRAFFIC (PLAQUE)	6161030	2	TYPE 3 MOVEABLE BARRICADE
WO3-2	48X48	16.00						YIELD AHEAD (SYMBOL)	R1-3P	30X12	2.50						ALL WAY (PLAQUE)	6161033	15	DIRECTION INDICATOR BARRICADE
WO3-3	48X48	16.00						SIGNAL AHEAD (SYMBOL)	R2-1	36X48	12.00	4	48.00				SPEED LIMIT XX	6161040	2	FLASHING ARROW PANEL
WO3-4	48X48	16.00						BE PREPARED TO STOP	R3-1	48X48	16.00						NO RIGHT TURN (SYMBOL)	6161047		TYPE 3 OBJECT MARKER
WO3-5	48X48	16.00						SPEED LIMIT AHEAD	R3-2	48X48	16.00						NO LEFT TURN (SYMBOL)	6161055		SEQUENTIAL FLASHING WARNING LIGHT
WO4-1L	48X48	16.00						MERGE (SYMBOL FROM LEFT)	R3-3	36X36	9.00						NO TURNS	6161070		TUBULAR MARKER
WO4-1R	48X48	16.00						MERGE (SYMBOL FROM RIGHT)	R3-4	48X48	16.00						NO U-TURN (SYMBOL)	6161095		RADAR SPEED ADVISORY SYSTEM
WO4-1aL	48X48	16.00	2	32.00				MERGE (LEFT)	R3-7L	30X30	6.25						LEFT LANE MUST TURN LEFT	6161096	4	CHANGEABLE MESSAGE SIGN, COMMISSION FURNISHED/RETAINED
WO4-1aR	48X48	16.00						MERGE (RIGHT)	R3-7R	30X30	6.25	2	12.50				RIGHT LANE MUST TURN RIGHT			
WO5-1	48X48	16.00	2	32.00				ROAD/BRIDGE/RAMP NARROWS	R4-1	36X48	12.00						DO NOT PASS			
WO5-3	48X48	16.00						ONE LANE BRIDGE	R4-2	36X48	12.00						PASS WITH CARE	6161098A		CHANGEABLE MESSAGE SIGN WITHOUT COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
WO5-5	48X48	16.00						NARROW LANES	R4-7a	36X48	12.00						KEEP RIGHT (HORIZONTAL ARROW)			
WO6-1	48X48	16.00						DIVIDED HIGHWAY (SYMBOL)	R4-8a	36X48	12.00						KEEP LEFT (HORIZONTAL ARROW)			
WO6-2	48X48	16.00						DIVIDED HIGHWAY END (SYMBOL)	R5-1	30X30	6.25						DO NOT ENTER	6161099		CHANGEABLE MESSAGE SIGN WITH COMM. INTERFACE, CONTRACTOR FURNISHED/RETAINED
WO6-3	48X48	16.00						TWO WAY TRAFFIC (SYMBOL)	R5-1a	36X24	6.00						WRONG WAY	6162000A		WORK ZONE TRAFFIC SIGNAL SYSTEM
WO7-3a	30X24	5.00						NEXT XX MILES (PLAQUE)	R6-1L	54X18	6.75						ONE WAY ARROW (LEFT)	6162002		TEMPORARY LONG-TERM RUMBLE STRIPS
WO8-1	48X48	16.00						BUMP	R6-1R	54X18	6.75						ONE WAY ARROW (RIGHT)	6173600D		TEMPORARY TRAFFIC BARRIER, CONTRACTOR FURNISHED/RETAINED
WO8-2	48X48	16.00						DIP	R6-2L	24X30	5.00						ONE WAY (LEFT)	6173700B		TEMP. TRAFFIC BARRIER ANCHORED, CONTRACTOR FURNISHED/RETAINED
WO8-3	48X48	16.00						PAVEMENT ENDS	R6-2R	24X30	5.00						ONE WAY (RIGHT)			
WO8-4	48X48	16.00						SOFT SHOULDER	R9-9	24X12	2.00						SIDEWALK CLOSED	6173706		TEMP. TRAFFIC BARRIER STIFFNESS TRANSITION, CONTRACTOR FURNISHED/RETAINED
WO8-5	48X48	16.00						SLIPPERY WHEN WET (SYMBOL)	R9-11L	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE			
WO8-6	48X48	16.00						TRUCK CROSSING	R9-11R	24X18	3.00						SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE			
WO8-6c	48X48	16.00						TRUCK ENTRANCE	R10-6	24X36	6.00						STOP HERE ON RED (45° ARROW)	6174000A		TEMP. TRAFFIC BARRIER HEIGHT TRANSITION, CONTRACTOR FURNISHED/RETAINED
WO8-7	36X36	9.00						LOOSE GRAVEL	R11-2	48X30	10.00						ROAD CLOSED	6175010A		RELOCATING TEMPORARY TRAFFIC BARRIER
WO8-7a	36X36	9.00						FRESH OIL / LOOSE GRAVEL	R11-3a	60X30	12.50						ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY	6175011B		RELOCATING TEMP. TRAFFIC BARRIER ANCHORED
WO8-9	48X48	16.00						LOW SHOULDER	R11-4	60X30	12.50						ROAD CLOSED	6175013		RELOCATING TEMP. TRAFFIC BARRIER STIFFNESS
WO8-11	48X48	16.00						UNEVEN LANES	CONST-3A	60X48	20.00						ROAD CLOSED TO THRU TRAFFIC	6175020A		RELOCATING TEMP. TRAFFIC BARRIER HEIGHT
WO8-12	48X48	16.00	4	64.00				NO CENTER LINE	CONST-3X	56X12	4.67						FINE SIGN	6208064A		TEMPORARY RAISED PAVEMENT MARKER
WO8-15	48X48	16.00						GROOVED PAVEMENT	MISCELLANEOUS SIGNS									616-10.05 CONSTRUCTION SIGNS 616-10.10 RELOCATED SIGNS		
WO8-15P	30X24	5.00						MOTORCYCLE (PLAQUE)	CONST-5	48X36	12.00						POINT OF PRESENCE			
WO8-17L	48X48	16.00						SHOULDER DROP-OFF (SYMBOL LEFT)	CONST-5	96X48	32.00						POINT OF PRESENCE			
WO8-17R	48X48	16.00						SHOULDER DROP-OFF (SYMBOL RIGHT)	CONST-8	48X36	12.00	2	24.00				WORK ZONE NO PHONE ZONE			
WO8-17P	30X24	5.00						SHOULDER DROP-OFF (PLAQUE)												
W10-1	42RND.	9.62						RAILROAD CROSSING												
WO12-1	24X24	4.00	2	8.00				DOUBLE DOWN ARROW (SYMBOL)												
WO12-2	48X48	16.00						LOW CLEARANCE (SYMBOL)												
WO12-2x	24X18	3.00						LOW CLEARANCE (PLAQUE)												
WO12-2a	84X24	14.00						OVERHEAD LOW CLEARANCE (FEET AND INCHES)												
WO12-4	120X60	50.00						LOW CLEARANCE XX FT XX IN XX MILES AHEAD												
WO12-5	120X60	50.00						WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD												
WO13-1	30X30	6.25						ADVISORY SPEED (PLAQUE)												
WO16-2	30X24	5.00						XXX FEET (PLAQUE)												
WO16-3	30X24	5.00						X MILE (PLAQUE)												
WO20-1	48X48	16.00	16	256.00				ROAD/BRIDGE/RAMP WORK AHEAD												
WO20-2	48X48	16.00						DETOUR AHEAD												
WO20-3	48X48	16.00						ROAD CLOSED AHEAD												
WO20-4	48X48	16.00	9	144.00				ONE LANE ROAD AHEAD												
WO20-5	48X48	16.00	3	48.00				RIGHT/CENTER/LEFT LANE CLOSED AHEAD												
WO20-5a	48X48	16.00						2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD												
WO20-6a	48X48	16.00	4	64.00				RIGHT/CENTER/LEFT LANE CLOSED												
WO20-7a	48X48	16.00	9	144.00				FLAGGER (SYMBOL)												
WO21-2	36X36	9.00						FRESH OIL												
WO21-5	48X48	16.00	2	32.00				SHOULDER WORK / SHOULDER WORK AHEAD												
WO22-1	48X48	16.00						BLASTING ZONE AHEAD												
WO22-2	42X36	10.50						TURN OFF 2-WAY RADIO AND PHONE												
WO22-3	42X36	10.50						END BLASTING ZONE												
GO22-1	21X15	2.19	2	4.38				WET PAINT (ARROW PIVOTS)												

STATE OF MISSOURI

JACOB CAPEDER

NUMBER

PE-2018021161

PROFESSIONAL ENGINEER

Jacob Capeder

JACOB CAPEDER - CIVIL

MO-PE-2018021161

DATE PREPARED

10/7/2025

ROUTE

160

STATE

MO

DISTRICT

SE

SHEET NO.

3

COUNTY

HOWELL

JOB NO.

JSE0006

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

MoDOT

105 WEST CAPITOL

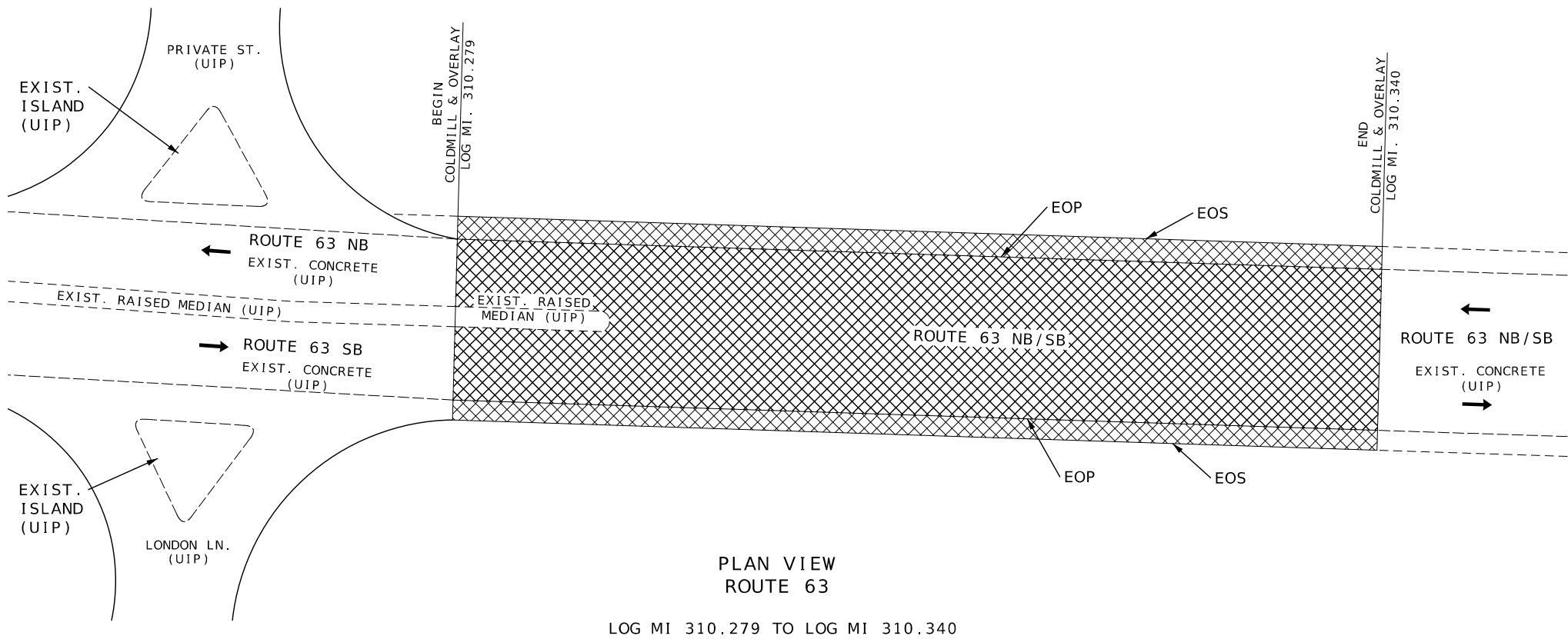
JEFFERSON CITY, MO 65102

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

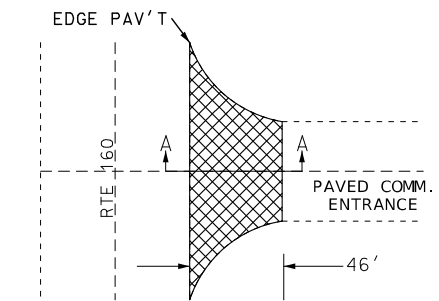
NOTES:
- REFER TO "TEMPORARY TRAFFIC CONTROL" SHEETS AND
STANDARD PLAN 61620 SHEETS

QUANTITIES SHEET
SHEET 2 OF 2

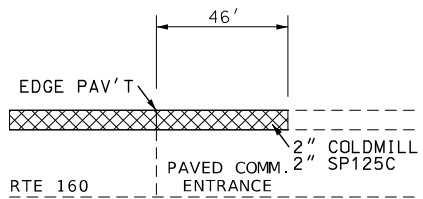
BEGIN & END PROJECT SEGMENT



ASPHALT COMMERCIAL ENTRANCE

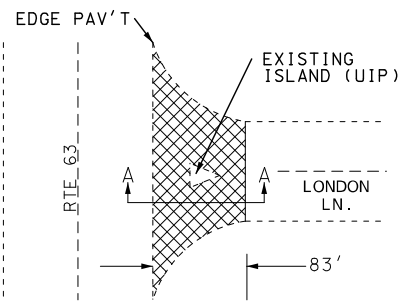


PLAN VIEW
ROUTE 160
LOG MI 231.523 TO LOG MI 231.542

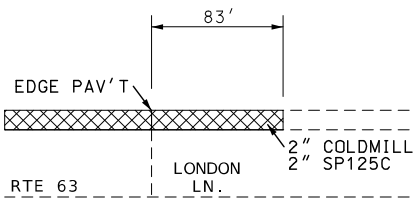


TYPICAL
SECTION A-A

ASPHALT CITY STREET

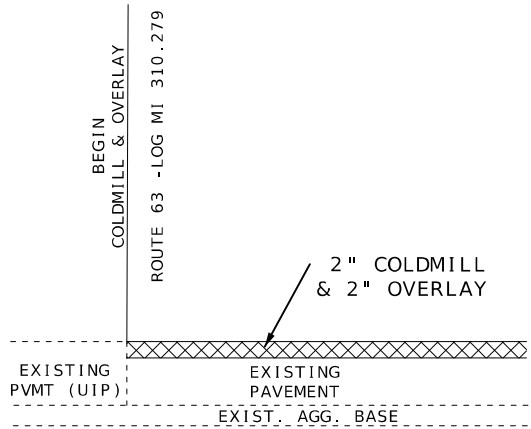


PLAN VIEW
ROUTE 63
LOG MI 310.279



TYPICAL
SECTION A-A

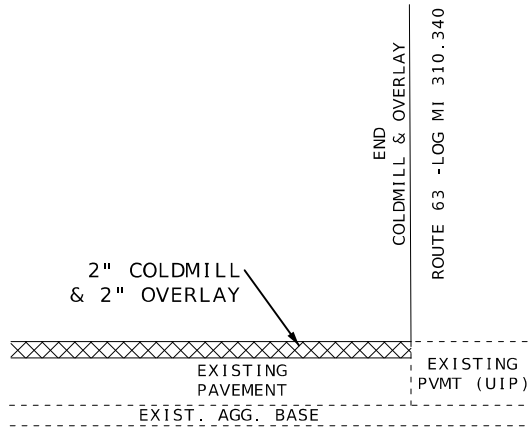
BEGIN PROJECT SEGMENTS



TYPICAL SECTION

ROUTE 63
LOG MI 310.279

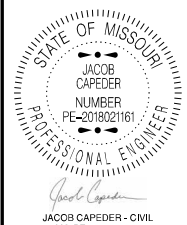
END PROJECT SEGMENTS



TYPICAL SECTION

ROUTE 63
LOG MI 310.340

SPECIAL SHEET
SHEET 2 OF 2
DRAWING NOT TO SCALE.



DATE PREPARED 8/11/2025	
ROUTE 160	STATE MO
DISTRICT SE	SHEET NO. 5
COUNTY HOWELL	
JOB NO. JSE0006	
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)

Sign Spacing, Device Spacing
and Channelizing Taper Lengths

SIGN SPACING (S) FOR ADVANCE SIGN SERIES (1) (2)		
SPEED MPH	UNDIVIDED HIGHWAYS	DIVIDED HIGHWAYS (3)
0-35	200	200
40-45	350	500
50-55	500	1000
60-70	1000	SA-1000 SB-1500 SC-2640

TAPER LENGTHS AND SPACING OF CHANNELIZING DEVICES (2)					
SPEED MPH	MINIMUM TAPER LENGTHS (L) FOR LANE WIDTHS (W)			MAXIMUM CHANNELIZER SPACING	
	10 FT	11 FT	12 FT	THROUGH TAPER	THROUGH WORK AREA
0-35	205	225	245	35 (4)	40 (4)
40-45	450	495	540	40 (4)	80 (4)
50-55	550	605	660	50 (5)	80 (5)
60-70	700	770	840	60 (5)	120 (5)

NOTES:

DIMENSIONS IN FEET UNLESS OTHERWISE NOTED.

- (1) SPACING BETWEEN SIGNS AND SPACING BETWEEN LAST SIGN AND FLAGGER, BEGINNING OF TAPER, OR SIGNED CONDITION
- (2) SPEED LIMIT IS BASED ON POSTED SPEED LIMIT. SPACINGS MAY BE ADJUSTED AS NECESSARY TO MEET FIELD CONDITIONS
- (3) FOR URBAN LOW SPEED, MINIMUM RECOMMENDED SPACING IN MUTCD IS 100 FT.
- (4) REDUCE SPACING 50% AT INTERSECTIONS
- (5) SPACING MAY BE REDUCED 50% AT INTERSECTIONS
 - REFER TO STANDARD PLAN SHEETS 61620 FOR ADDITIONAL TEMPORARY TRAFFIC CONTROL.

LONGITUDINAL BUFFER SPACE (B)	
SPEED MPH	BUFFER SPACE
0-35	250
40-45	360
50-55	495
60-70	730

TAPER LENGTH (L):

L = WS FOR 40 MPH OR MORE

L = $\frac{WS^2}{60}$ FOR 35 MPH OR LESS

FOR SHOULDER TAPER USE L/3

WHERE:

L = TAPER LENGTH IN FEET

W = LATERAL SHIFT IN FEET

S = POSTED SPEED IN MPH

TRAFFIC CONTROL DEVICES

GENERAL NOTES:

1. SEE STANDARD PLAN 616.10 FOR DETAILS AND ITEMS NOT SHOWN
2. EXISTING SIGNS SHALL BE COVERED DURING WORKING HOURS ONLY IF IN CONFLICT WITH TRAFFIC CONTROL PLANS.
3. NO DIRECT PAYMENT WILL BE MADE FOR RELOCATING, COVERING, UNCOVERING OR REMOVING SIGNS.
4. CONES ALLOWABLE FOR DAYTIME OPERATIONS ONLY.
6. LOCATE FLASHING ARROW PANEL AT BEGINNING OF TAPER WHEN FEASIBLE, ARROW PANELS ARE ALWAYS LOCATED BEHIND CHANNELIZERS OR CONES.

TRAFFIC CONTROL LEGEND

• SIGN (SINGLE SIDED)

• SIGN (DOUBLE SIDED)

◁ FLAGGER

▲ DIRECTION INDICATOR BARRICADE

■ CHANNELIZER

E BARRICADE

CHANGEABLE MESSAGE BOARD

FLASHING ARROW PANEL

TMA (TRUCK MOUNTED ATTENUATOR) WITH FLASHING ARROW PANEL

STATE OF MISSOURI

JACOB CAPEDE

NUMBER

PE-2018021161

PROFESSIONAL ENGINEER

JACOB CAPEDE - CIVIL

MO-PE-2018021161

DATE PREPARED

8/11/2025

ROUTE

160

DISTRICT

SE

STATE

MO

SHEET NO.

6

COUNTY

HOWELL

JOB NO.

JSE0006

CONTRACT ID.

PROJECT NO.

BRIDGE NO.

DESCRIPTION

DATE

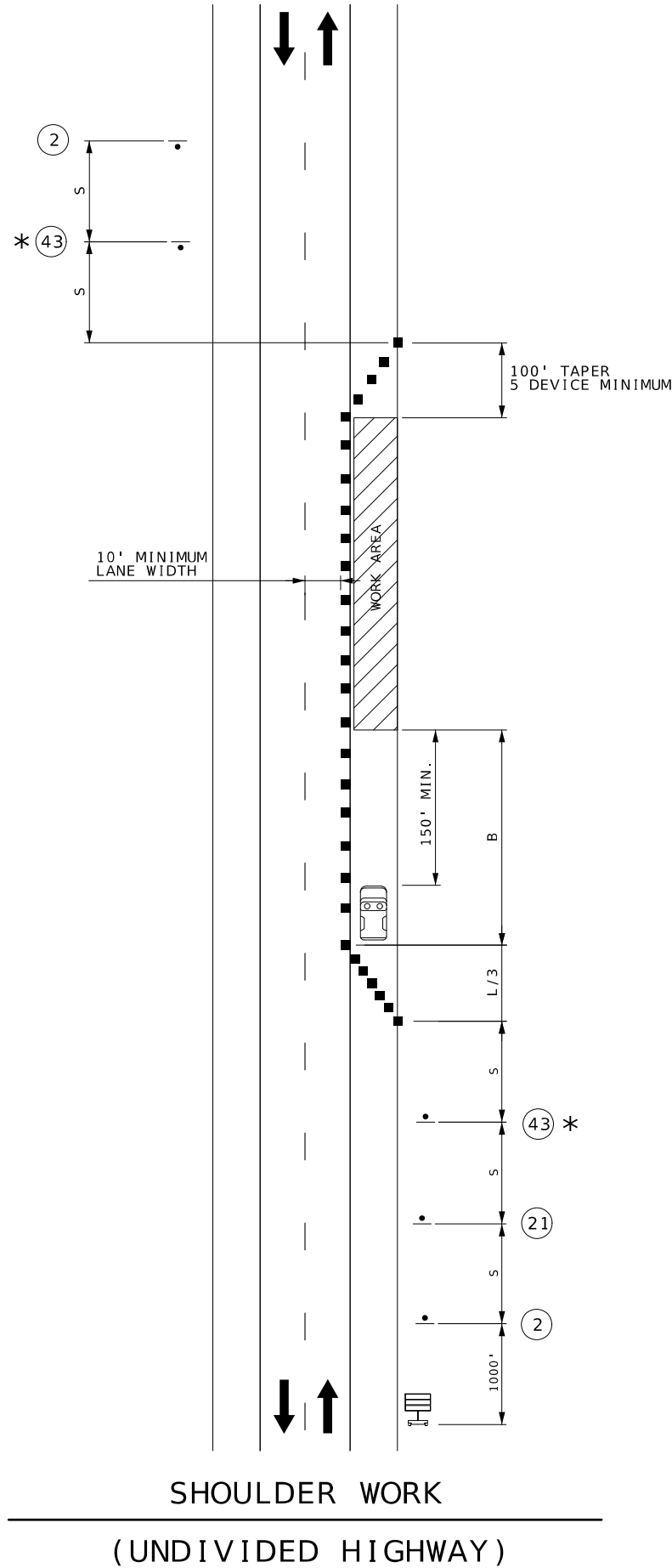
MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

105 WEST CAPITOL

JEFFERSON CITY, MO 65102

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

NOT TO SCALE



W020 - 1
2



W021 - 5
21

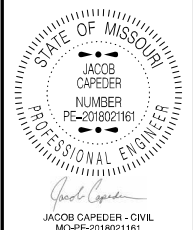


W05 - 1

43 * OMIT SIGN 43 FOR NO TRAVELWAY ENCROACHMENT.



PROTECTIVE VEHICLE
(TMA OPTIONAL)



DATE PREPARED 8/11/2025	
ROUTE 160	STATE MO
DISTRICT SE	SHEET NO. 7
COUNTY HOWELL	
JOB NO. JSE0006	
CONTRACT ID.	

PROJECT NO.
BRIDGE NO.

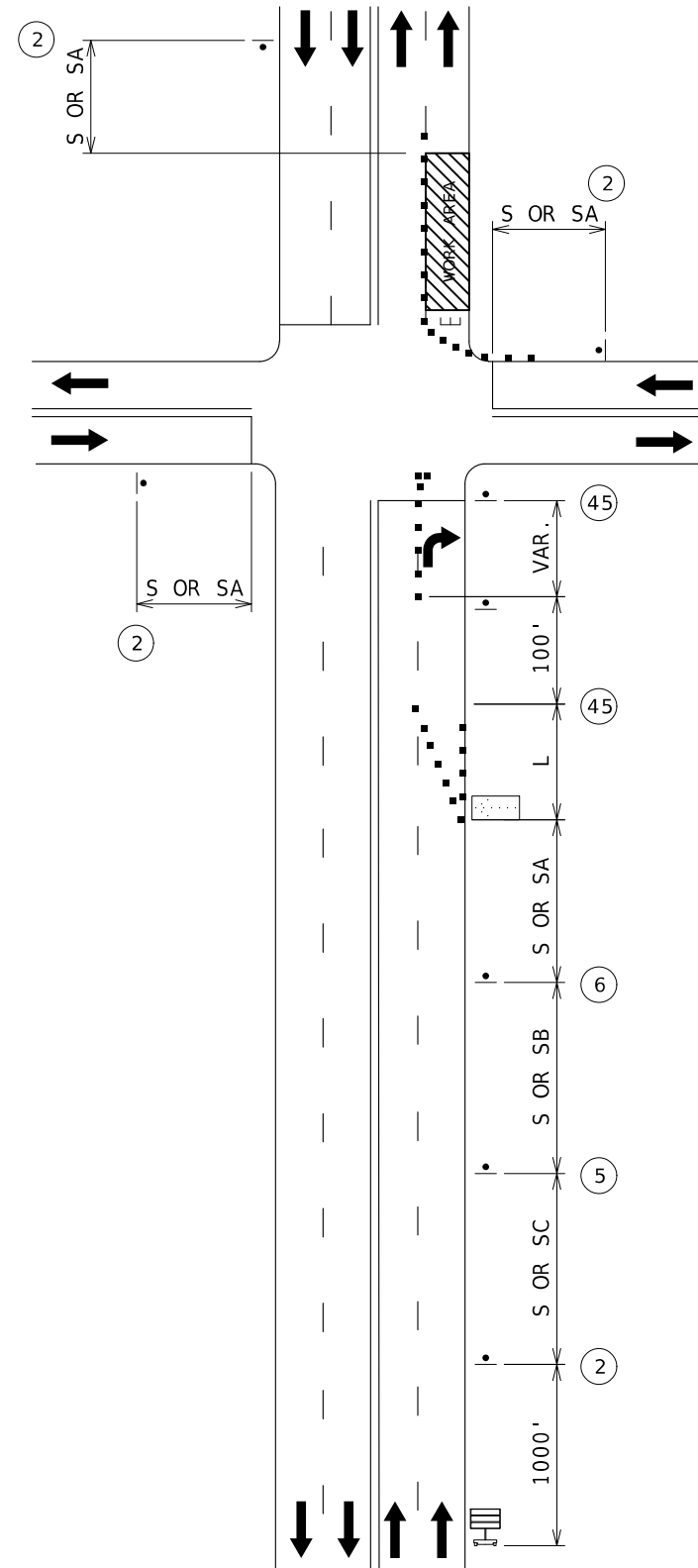
DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

SHOULDER WORK
(UNDIVIDED HIGHWAY)

NOT TO SCALE



RIGHT LANE CLOSURE ON FAR SIDE OF INTERSECTION



WO20-1



WO20-5

CENTER
OR
LEFT



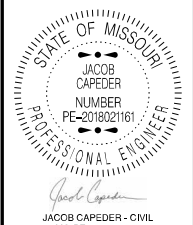
WO20-6a

CENTER
OR
LEFT



R3-7R

TEMPORARY TRAFFIC CONTROL
SHEET 4 OF 7



MO-PE-2018021161

DATE PREPARED

8/11/2025

ROUTE 160	STATE MO
--------------	-------------

DISTRICT	SHEET NO.
SE	9

COUNTY
LOWELL

HOWELL

JOB NO.
ISE0006

CONTRACT ID.

CONCLUSIONS

PROJECT NO.

© 2000 Blackwell Science Ltd, *Journal of Internal Medicine* 247: 399–406

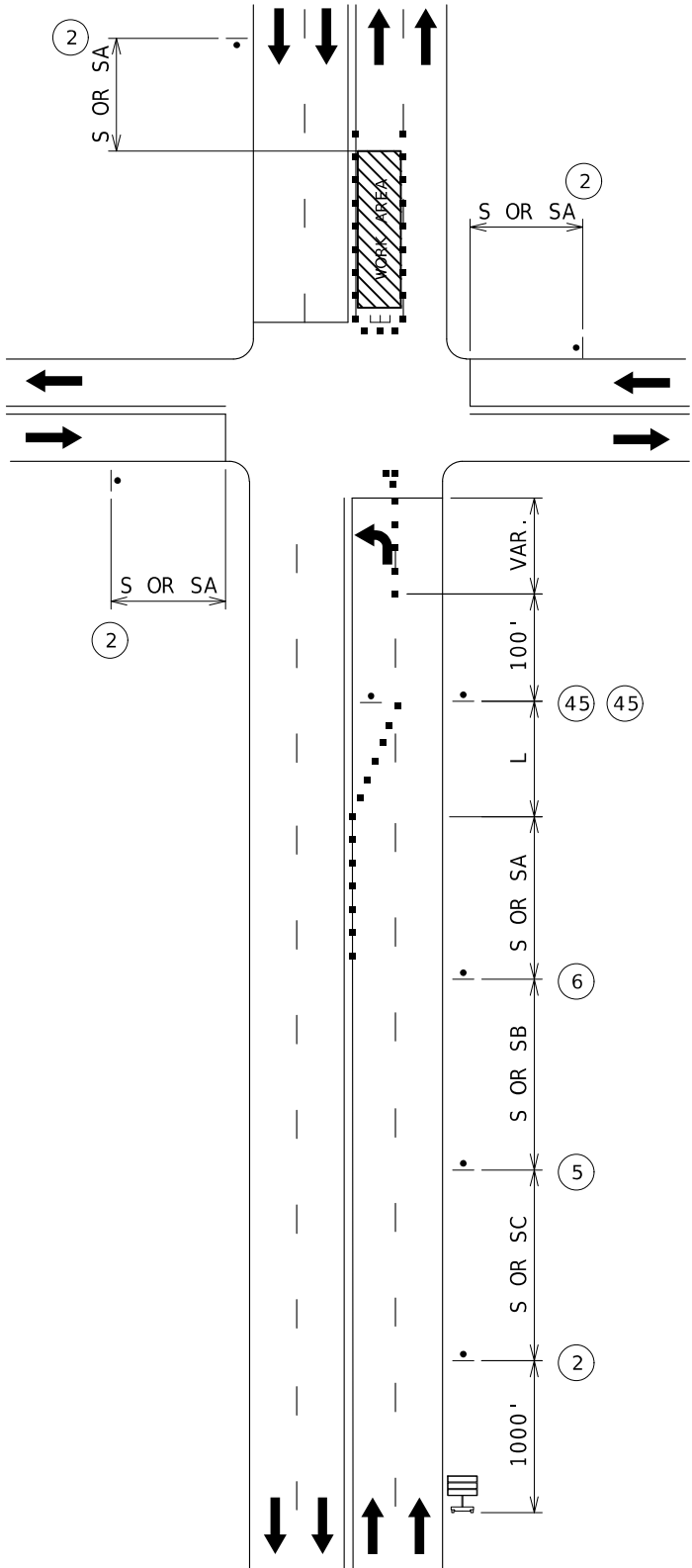
BRIDGE NO.

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

NOT TO SCALE



LEFT LANE CLOSURE ON
FAR SIDE OF INTERSECTION



WO20-1
2



WO20-5
5

CENTER
OR
LEFT

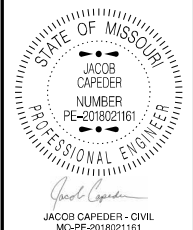


WO20-6a
6

CENTER
OR
LEFT



R3-7L
45



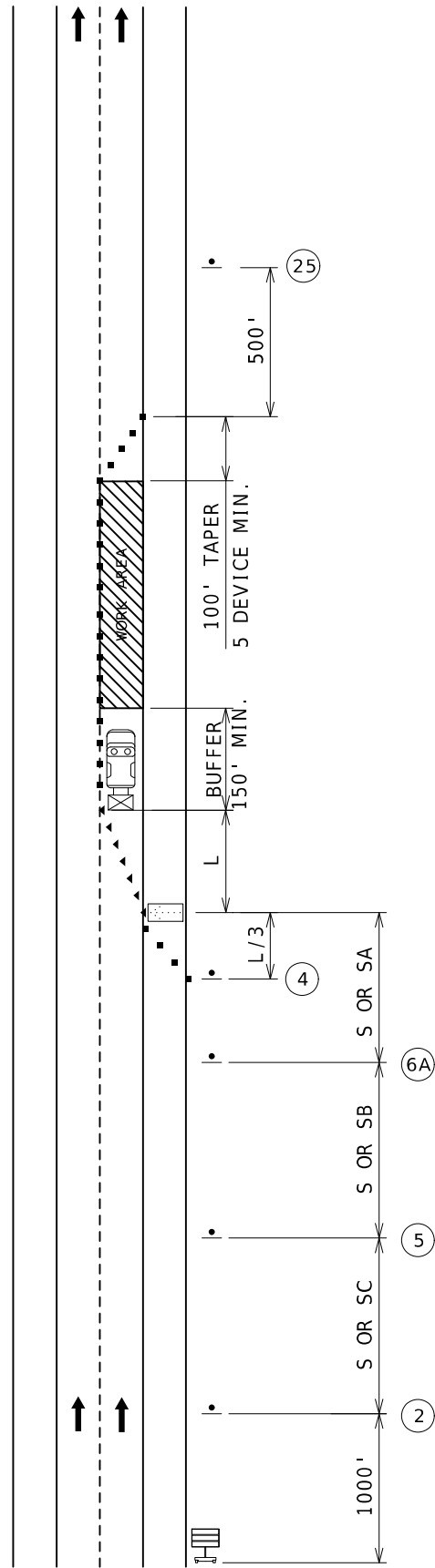
DATE PREPARED 8/11/2025	
ROUTE 160	STATE MO
DISTRICT SE	SHEET NO. 10
COUNTY HOWELL	
JOB NO. JSE0006	
CONTRACT ID.	
PROJECT NO.	
BRIDGE NO.	

DATE	DESCRIPTION

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION

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

MULTI-LANE HIGHWAY
SINGLE LANE CLOSURE



WO20-1
2



WO20-5
5

LEFT



WO20-6a
6

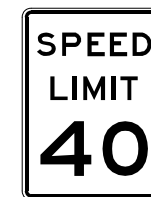
LEFT



WO4-1aL
6A



GO20-5aP



R2-1
4



R2-1
25

NOT TO SCALE

TEMPORARY TRAFFIC CONTROL
SHEET 6 OF 7

STATE OF MISSOURI

JACOB CAPEDE

NUMBER

PE-2018021161

PROFESSIONAL ENGINEER

JACOB CAPEDE - CIVIL

MO-PE-2018021161

DATE PREPARED

10/7/2025

ROUTE

160

DISTRICT

SE

STATE

MO

SHEET NO.

11

COUNTY

HOWELL

JOB NO.

JSE0006

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)

MoDOT

NOT TO SCALE

NOTES :

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

PROTECTIVE TRUCKS 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.

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.

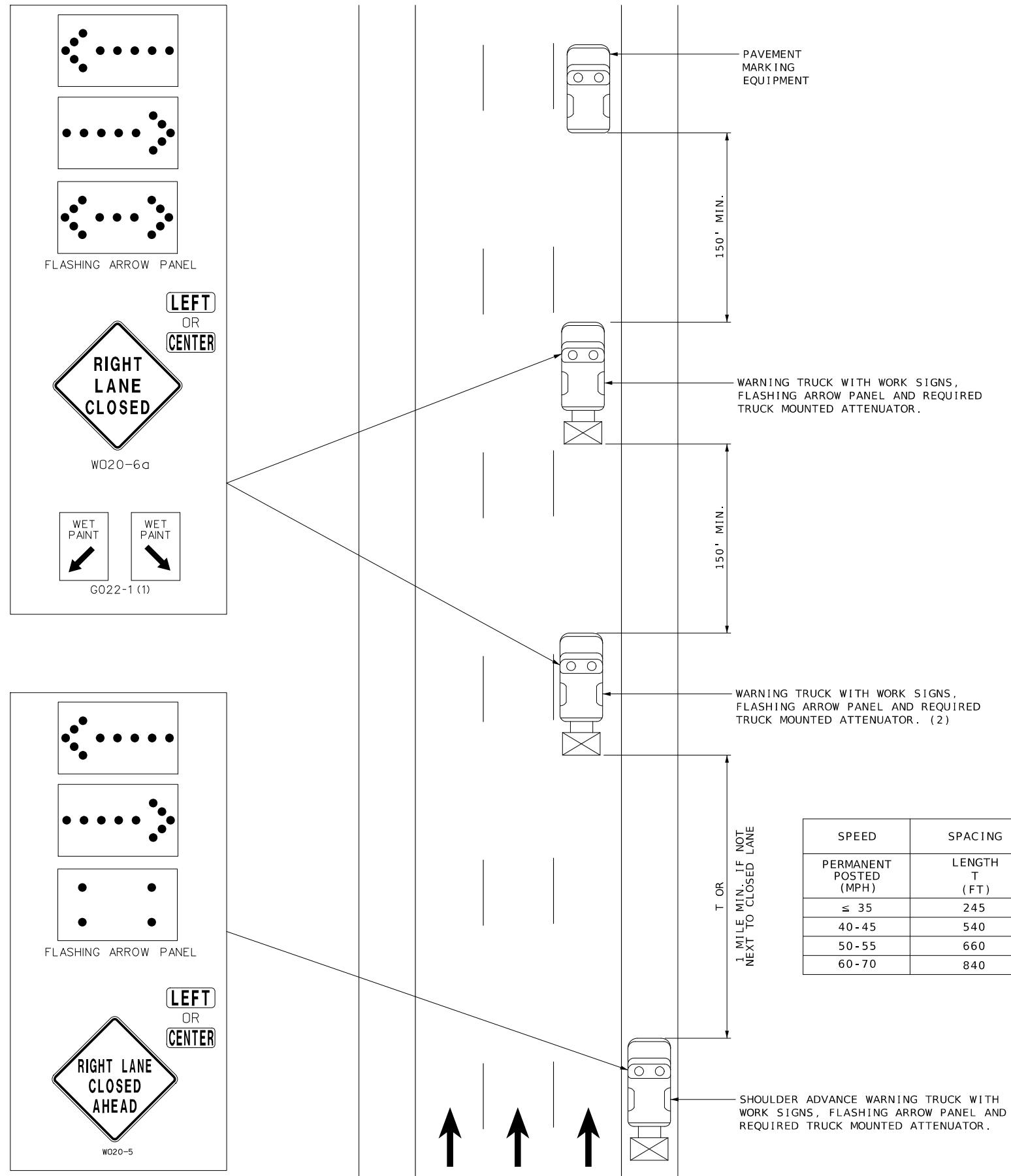
FLASHING ARROW PANELS SHALL BE INCIDENTAL TO TRUCK MOUNTED
ATTENUATORS, WHEREVER USED. NO ADDITIONAL PAYMENT WILL BE MADE.

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

A FLASHING ARROW BOARD SHALL BE USED WHEN A FREEWAY LANE IS CLOSED. WHEN MORE THAN ONE LANE CLOSED, A SEPARATE FLASHING ARROW BOARD SHALL BE USED FOR EACH CLOSED LANE.

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



SPEED	SPACING
PERMANENT POSTED (MPH)	LENGTH T (FT)
≤ 35	245
40-45	540
50-55	660
60-70	840

TEMPORARY TRAFFIC CONTROL
SHEET 7 OF 7



JACOB CAPEDE - CIVIL
MO-PE-2018021161
DATE PREPARED

8/11/2025

ROUTE 160	STATE MO
--------------	-------------

DISTRICT	SHEET NO.
SE	12

COUNTY
HOWELL

HOWELL

JOB NO.

JSE0006

CONTRACT ID.

PROJECT NO.

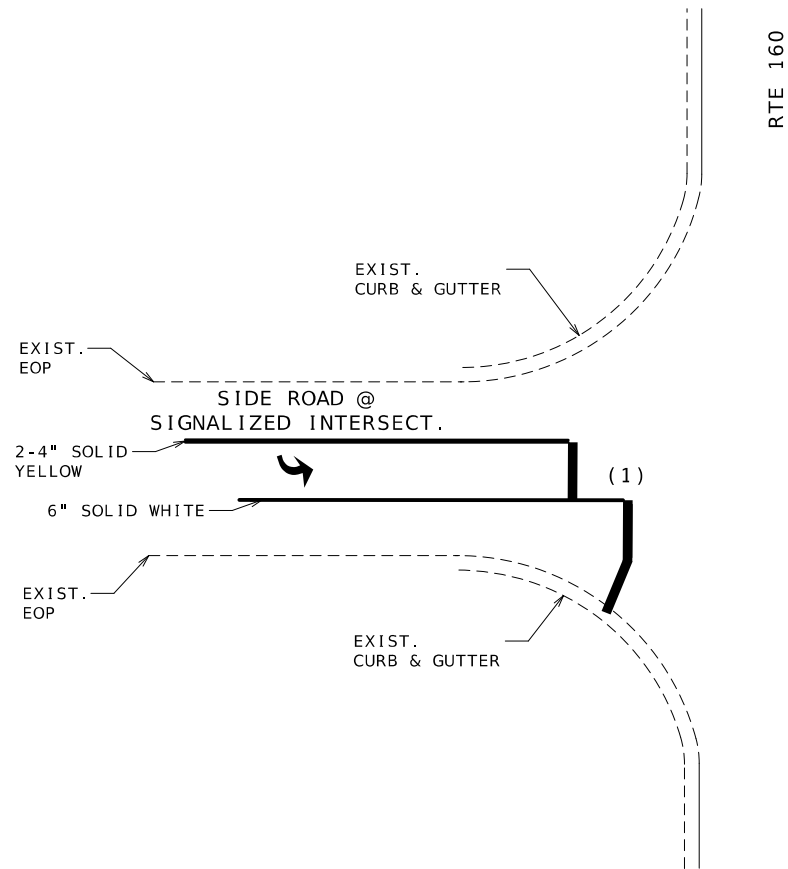
BRIDGE NO.

[illegible]

MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION



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



PLAN VIEW
TYPICAL SIDEROAD AT
SIGNALIZED INTERSECTION

ROUTE 160

LOG MILE 231.603 TO LOG MILE 231.623
LOG MILE 231.738 TO LOG MILE 231.745
LOG MILE 231.875 TO LOG MILE 231.900

STRIPING LEGEND

- 6" SOLID WHITE
- 4" SOLID YELLOW
- STOP BAR
- LEFT TURN ARROW

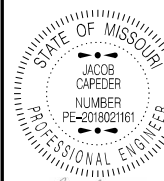
NOTES:

(1) REFER TO STANDARD PLAN 620.00 FOR STRIPING DETAIL
WHERE CROSSWALKS ARE PRESENT AT SIGNALIZED SIDE
ROAD INTERSECTIONS.

LOG MILES ARE APPROXIMATE. ADJUST AS DIRECTED BY ENGINEER TO FIT FIELD CONDITIONS.

PAVEMENT MARKING SHEET
SHEET 1 OF 1

NOT TO SCALE.



JACOB CAPEDER - CIVIL
MO-PE-2018021161

DATE PREPARED
8/11/2025

ROUTE 160	STATE MO
--------------	-------------

DISTRICT SE	SHEET NO. 13
----------------	-----------------

COUNTY
HOWELL

JOB NO.
JSE0006

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)