

MISSOURI HIGHWAYS and TRANSPORTATION COMMISSION

JEFFERSON CITY, MISSOURI

SUPPLEMENTAL PLANS TO JULY 2021 MISSOURI STANDARD PLANS FOR HIGHWAY CONSTRUCTION

EFFECTIVE April 1, 2022

EFFECTIVE: 04/01/2022

MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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STANDARD NO.	DRAWING TITLE	NO. OF SHEETS	EFFECTIVE DATE
203.00E	EXCAVATION AND EMBANKMENT - TYPICAL DETAILS	1	08/01/1998
203.02F	UNDERGRADING - TYPICAL DETAILS	2	01/01/2004
203.10D	TABULATED EARTHWORK AND SECTION DATA	1	02/01/2009
203.20G	SUPERELEVATION, SPIRALS AND WIDENING (UNDIVIDED HIGHWAY)	4	07/01/2017
203.21K	SUPERELEVATION, SPIRALS AND WIDENING (DIVIDED HIGHWAY)	3	07/01/2017
203.22	SUPERELEVATION, SPIRALS AND WIDENING	2	07/01/2017
203.35A	MAILBOX TURNOUTS	1	08/01/1981
203.40G	TYPICAL DETAILS ON AND OFF RAMPS	2	10/01/2007
203.41F	TYPICAL DETAILS ON AND OFF RAMPS (ROADWAY WITH 6:1 FORESLOPE)	2	01/01/1995
203.50N	TYPICAL MEDIAN OPENINGS (DIVIDED HIGHWAYS)	2	04/01/2016
203.61A	DRIVEWAY - TYPE I	1	07/01/2004
203.62D	DRIVEWAY - TYPE II	2	04/01/2017
203.63B	DRIVEWAY - TYPE III	2	04/01/2017
203.64D	DRIVEWAY - TYPE IV	2	04/01/2017
203.65A	DRIVEWAY - TYPE V	1	10/01/1998
204.00D	EMBANKMENT CONTROL - MEASURING DEVICES	1	04/01/1983
204.30	PORE PRESSURE MEASUREMENT DEVICES	1	03/01/1996
401.00B	TYPE A2 AND A3 SHOULDERS, SAFETY EDGE SM	3	04/01/2018
413.20	SCRUB SEAL BROOM CONFIGURATION	1	07/01/2004
502.05P	CONCRETE PAVEMENT AND BASE APPURTENANCES FOR 15 FT. JOINT SPACING	4	10/01/2020
502.10K	DOWEL SUPPORTING UNITS	2	06/01/2010
504.00K	CONCRETE APPROACH PAVEMENT *	3	10/01/2021
506.20	BIG BLOCK UNBONDED CONCRETE OVERLAY	1	07/01/2021
602.00D	RIGHT-OF-WAY AND DRAIN MARKERS	2	01/01/2003
604.05D	PIPE CULVERT HEADWALLS - TYPE S	2	08/01/2006
604.10E	PIPE CULVERT HEADWALL — ENERGY DISSIPATOR FOR 18" CONCRETE PIPE	1	07/01/2001
604.11E	PIPE CULVERT HEADWALL — ENERGY DISSIPATOR FOR 24" CONCRETE PIPE	1	07/01/2001
604.12E	PIPE CULVERT HEADWALL - ENERGY DISSIPATOR FOR 30" CONCRETE PIPE	1	07/01/2001
604.13E	PIPE CULVERT HEADWALL - ENERGY DISSIPATOR FOR 36" CONCRETE PIPE	1	07/01/2001
604.14E	PIPE CULVERT HEADWALL - ENERGY DISSIPATOR FOR 42" CONCRETE PIPE	1	07/01/2001
604.15E	PIPE CULVERT HEADWALL - ENERGY DISSIPATOR FOR 48" CONCRETE PIPE	1	07/01/2001
604.29C	DROP INLET - TYPE X	2	04/01/2018
604.30G	CONCRETE MANHOLES	2	02/01/2009
604.40G	PIPE COLLARS	2	07/01/2021
604.70	SLOTTED DRAIN	2	03/01/1994
605.10I	PAVEMENT UNDERDRAINAGE	4	06/01/2013
606.00AY	GUARDRAIL	7	01/01/2020
606.01F	MEDIAN PIER PROTECTION	9	04/01/2021
606.22U	BRIDGE ANCHOR SECTION - SAFETY BARRIER CURB ON BRIDGE	6	07/01/2016
606.23J	BRIDGE ANCHOR SECTION (THRIE BEAM RAIL ON BRIDGE)	5	07/01/2016
606.30L	GUARDRAIL - TERMINAL ANCHOR ENDS	7	04/01/2021
606.31B	CRASHWORTHY END TERMINALS - TYPE A - GRADING LIMITS	1	10/01/2019
606.40D	ONE-STRAND ACCESS RESTRAINT CABLE	2	07/01/2004
606.41M	THREE-STRAND GUARD CABLE	7	04/01/2021
606.50D	MIDWEST GUARDRAIL SYSTEM (MGS)	8	04/01/2021

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606.51	MIDWEST GUARDRAIL SYSTEM (MGS) - MEDIAN PIER PROTECTION	2	04/01/2021
606.60B	MIDWEST GUARDRAIL SYSTEM (MGS) - VERTICAL BARRIER TRNSITIONS	6	07/01/2021
606.70B	MIDWEST GUARDRAIL SYSTEM (MGS) - THRIE BEAM RAIL ON BRIDGE	5	04/01/2018
606.80C	MIDWEST GUARDRAIL SYSTEM (MGS) - TERMINAL ANCHOR ENDS	7	07/01/2021
606.81B	MASH - CRASHWORTHY END TERMINALS - TYPE A - GRADING LIMITS	1	10/01/2019
607.10V	CHAIN-LINK FENCE	1	02/01/2007
607.11H	CHAIN-LINK FENCE FOR RETAINING WALLS	1	06/01/2009
607.20G	WOVEN WIRE FENCE	2	07/01/2016
608.00J	PAVED APPROACHES	2	04/01/2020
608.10P	CONCRETE SIDEWALK	1	04/01/2015
608.20E	CONCRETE STAIRS	2	04/01/2015
608.30A	CONCRETE MEDIAN STRIP	1	10/01/2020
608.40A	HANDRA IL ING	4	01/01/2021
608.50	CURB RAMPS	4	04/01/2015
609.00P	CONCRETE CURB, CURB AND GUTTER AND GUTTER	2	04/01/2021
609.15D	PAVED DITCHES	1	07/01/2016
609.405	DRAIN BASIN, SHOULDER PAVING AND FILL SLOPES AT BRIDGE ENDS *	3	01/01/2022
609.60C	ROCK DITCH LINER	1	03/01/1993
609.70C	ROCK LINING FOR CULVERT OUTLET	1	10/01/1981
611.60R	CONCRETE SLOPE PROTECTION	1	07/01/2015
612.20E	SAND FILLED IMPACT ATTENUATORS	1	10/01/2018
613.00T	PAVEMENT REPAIR	4	01/01/2020
614.10U	GRATES AND BEARING PLATES *	1	10/01/2021
614.11D	CURVED VANE GRATE AND FRAME	1	01/01/2021
614.30E	MANHOLE FRAMES AND COVERS	2	03/01/1996
616.10AY	TEMPORARY TRAFFIC CONTROL DEVICES *	9	01/01/2022
616.20	TEMPORARY TRAFFIC CONTROL PLANS - TWO-LANE ROADWAYS	5	07/01/2021
617.10M	PERMANENT CONCRETE TRAFFIC BARRIER	11	10/01/2020
617.20F	TEMPORARY CONCRETE TRAFFIC BARRIER	8	01/01/2021
619.10J	PAVEMENT EDGE TREATMENT	1	10/01/2017
620,00N	PAVEMENT MARKING **	6	04/01/2022
620.10G	TEMPORARY PAVEMENT MARKING	5	07/01/2017
625.00	HOLE PATTERN FOR PAVEMENT SLAB STABILIZATION	1	10/01/1998
626.00H	RUMBLE STRIPS	2	04/01/2009
			1
		1	

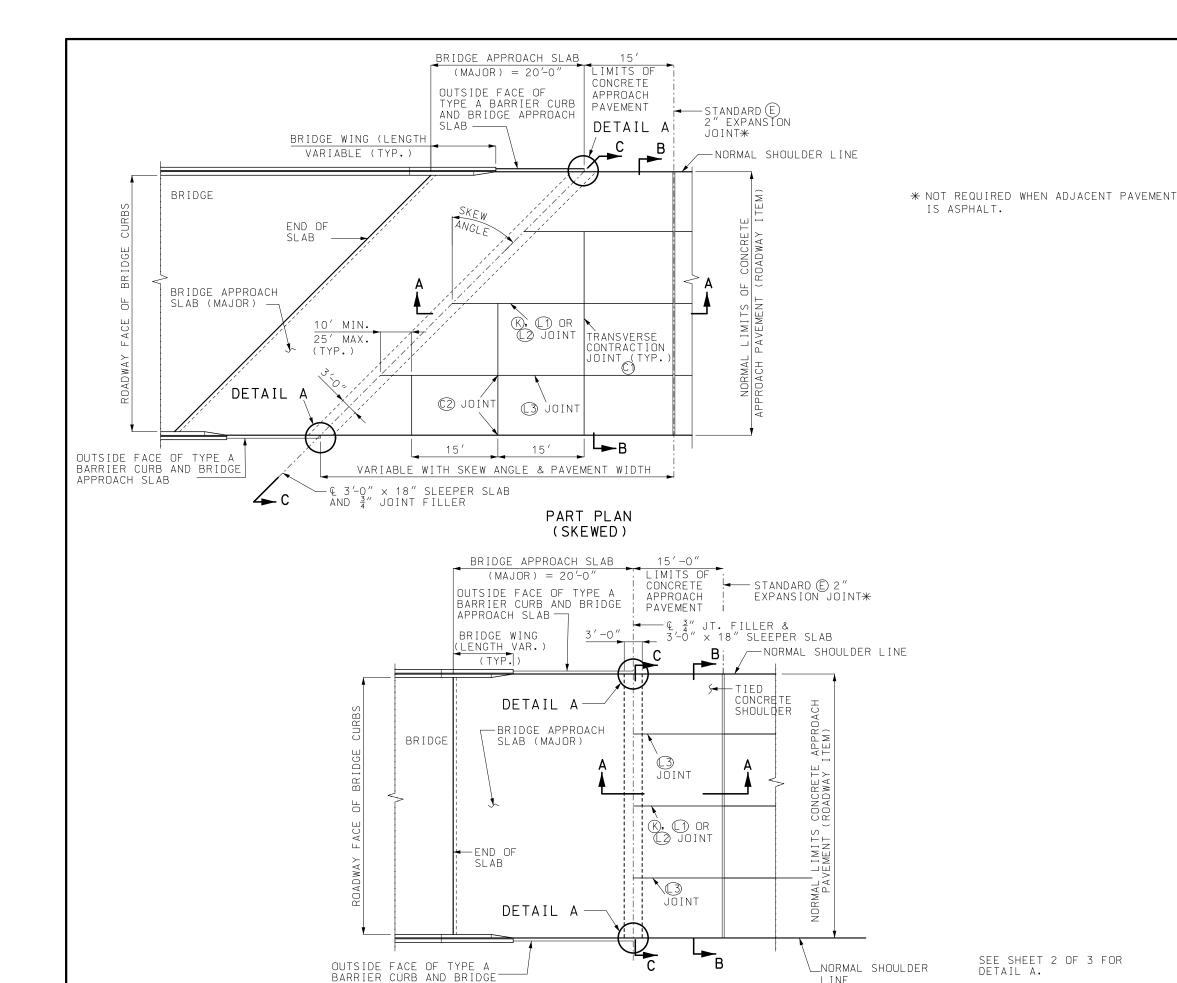
EFFECTIVE: 04/01/2022

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901.80D	HIGHWAY LIGHTING - POWER SUPPLY ASSEMBLY - SECONDARY SERVICE	2	04/01/2002
901.85B	HIGHWAY LIGHTING SYMBOLS	1	04/01/2018
902,00P	TRAFFIC SIGNALS	2	04/01/2018
902.05	TRAFFIC SIGNALS - ACCESSIBLE PEDESTRIAN SIGNALS	2	04/01/2021
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902.20G	TRAFFIC SIGNALS - CONCRETE PULL BOXES	3	04/01/2019
902.21C	TRAFFIC SIGNALS - TELEPHONE INTERCONNECT	1	03/01/1996
902.30P	TRAFFIC SIGNALS - POST BASES	2	10/01/2018
902.40R	TRAFFIC SIGNALS - TUBULAR STEEL POSTS	3	04/01/2018
902.50M	TRAFFIC SIGNALS - INDUCTION LOOP DETECTORS	2	04/01/2020
902.70Q	TRAFFIC SIGNALS - RIGID SPAN WIRE DETAILS *	3	01/01/2022
902.80L	TRAFFIC SIGNALS - TRAFFIC SIGNAL SYMBOLS	1	04/01/2020
903.01J	STANDARD ARROW DETAILS	2	10/01/2016
903.02AP	HIGHWAY SIGNING	8	10/01/2019
903.03BN	POST INSTALLATIONS AND SIGN MOUNTING DETAILS	16	01/01/2021
903.04F	HIGHWAY SIGNING - WEIGH STATION	1	02/01/2012
903.05K	HIGHWAY SIGNING - TUBULAR SUPPORT STEEL - TYPE S, ONE TUBE	2	01/01/2021
903.06K	HIGHWAY SIGNING - TUBULAR SUPPORT STEEL - TYPE S, TWO TUBE	2	01/01/2021
903.07K	HIGHWAY SIGNING - TUBULAR SUPPORT STEEL - TYPE C	2	01/01/2021
903.08J	HIGHWAY SIGNING - TUBULAR SUPPORT STEEL - TYPE B	2	01/01/2021
903.10BD	OVERHEAD SIGN TRUSSES - ALUMINUM	6	01/01/2021
903.12AA	OVERHEAD SIGN TRUSSES - BUTTERFLY AND CANTILEVER STRUCTURAL STEEL	7	01/01/2021
903.60AC	OVERHEAD SIGN TRUSSES - STRUCTURAL STEEL	5	01/01/2021
'		I	I



PART PLAN

(SQUARE)

APPROACH SLAB

LINE

GENERAL NOTES:

TYPE A CURB IS TO BE CONSTRUCTED WITH CONCRETE APPROACH PAVEMENT ONLY WHEN DRAIN BASINS ARE REQUIRED. TYPE A CURBS WILL BE CONSIDERED AS INCIDENTAL, AND WILL BE INCLUDED IN THE PAYMENT FOR CONCRETE APPROACH PAVEMENT.

FOR SHOULDER PAVING AND DRAIN BASINS AT BRIDGE ENDS, SEE STANDARD DRAWING NUMBER 609.40.

FOR TYPE A BARRIER CURBS, STANDARD 2" EXPANSION JOINTS, LONGITUDINAL JOINTS AND TONGUE AND GROOVE JOINTS, SEE STANDARD DRAWINGS NO. 502.00 AND 609.00.

FOR BRIDGE APPROACH SLAB, SLEEPER SLAB, AND JOINT FILLER DETAILS, SEE BRIDGE PLANS.

A PRE-FORMED FIBER EXPANSION JOINT MATERIAL SHALL BE PLACED WITH CONCRETE APPROACH PAVEMENT AND MEET THE REQUIREMENTS OF SECTION 1057 OF THE STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION.

COST OF FURNISHING AND PLACEMENT OF 4" TYPE 5 AGGREGATE BASE AND 3" JOINT FILLER IS INCLUDED IN CONTRACT UNIT BID PRICE FOR CONCRETE APPROACH PAVEMENT.



MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



CONCRETE APPROACH PAVEMENT

FOR TWO-LANE PAVEMENTS (MAJOR ROUTE)

DATE EFFECTIVE: 10/01/2021 DATE PREPARED:

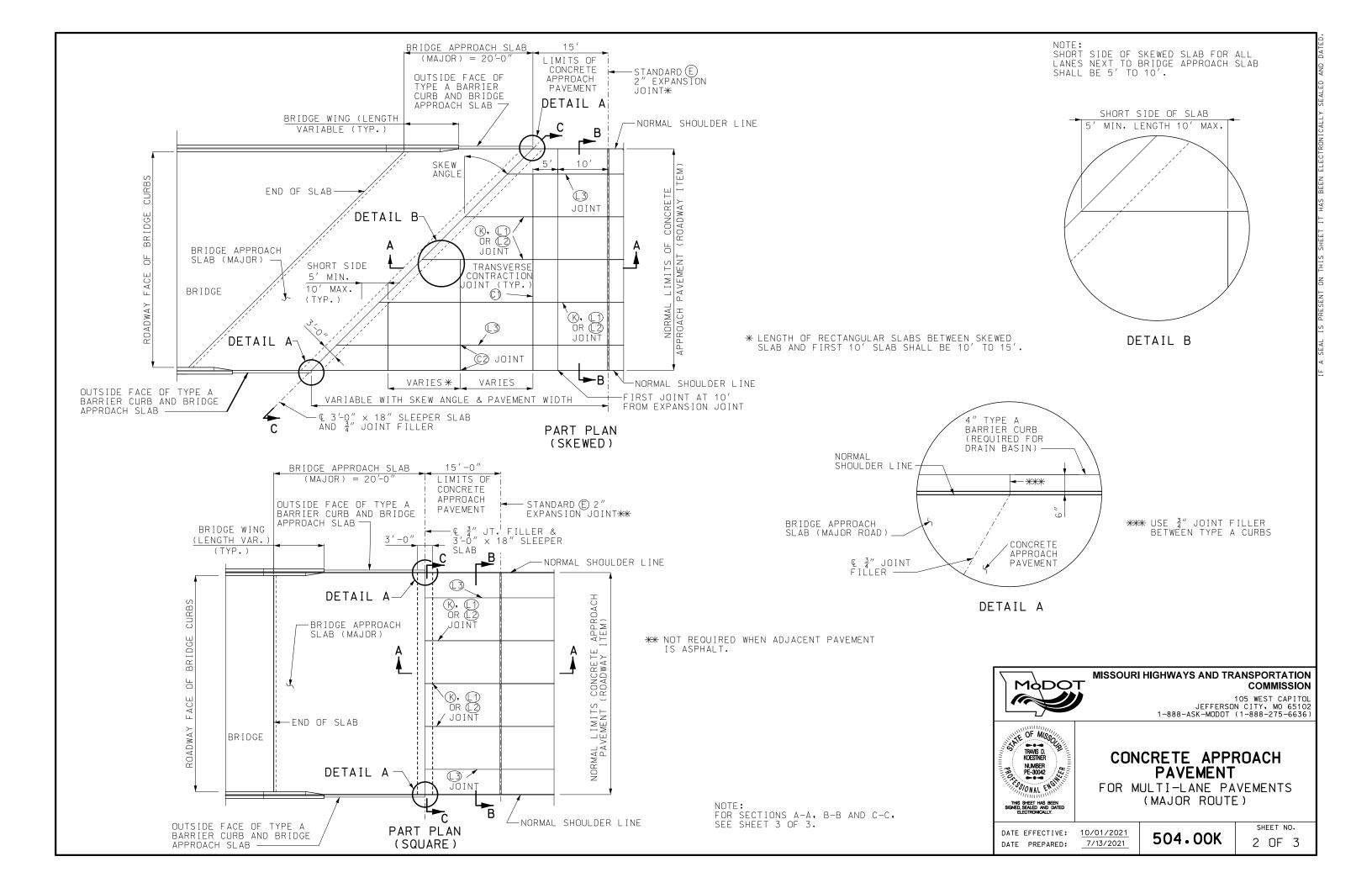
FOR SECTIONS A-A, B-B AND

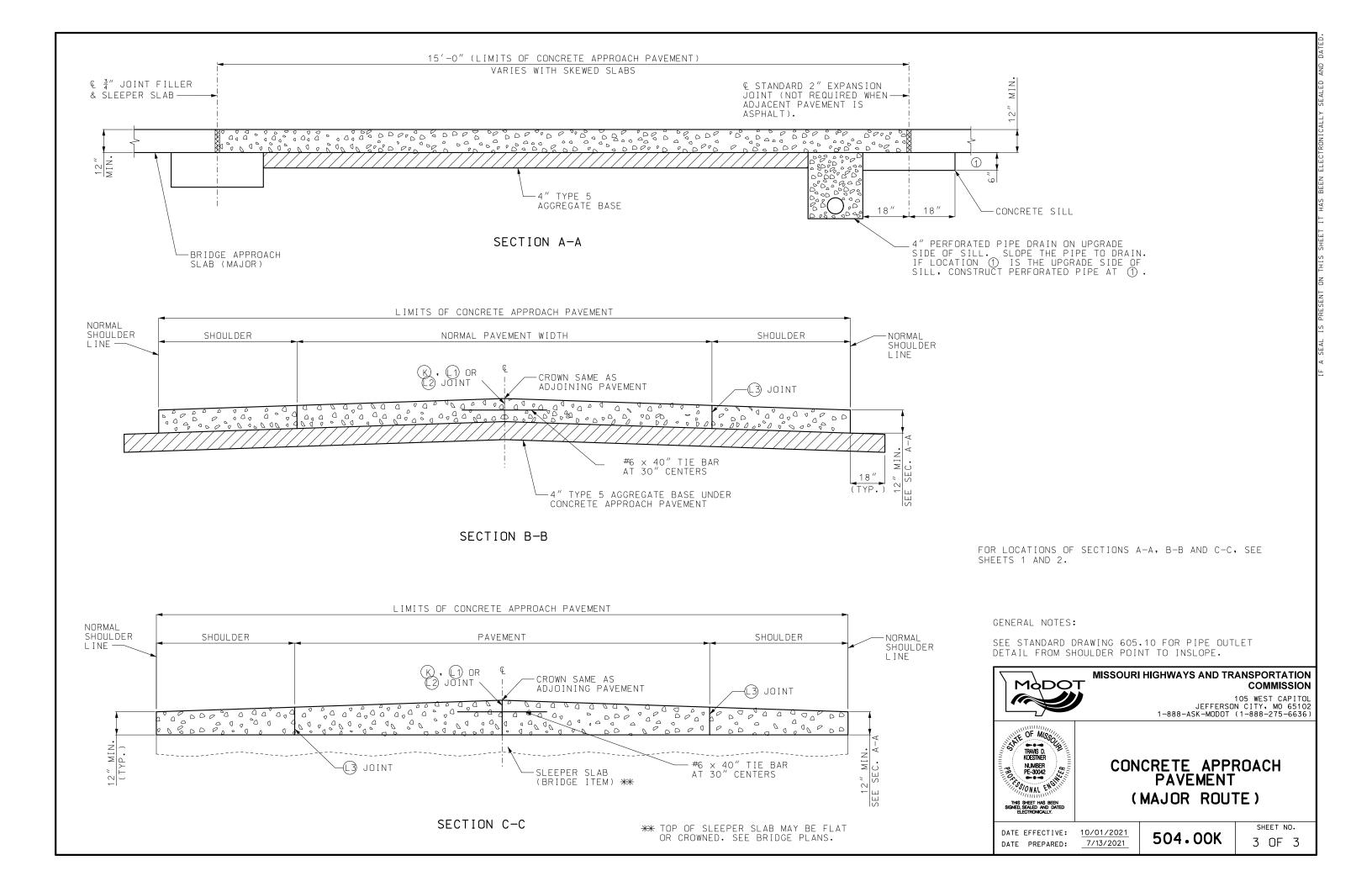
C-C, SEE SHEET 3 OF 3.

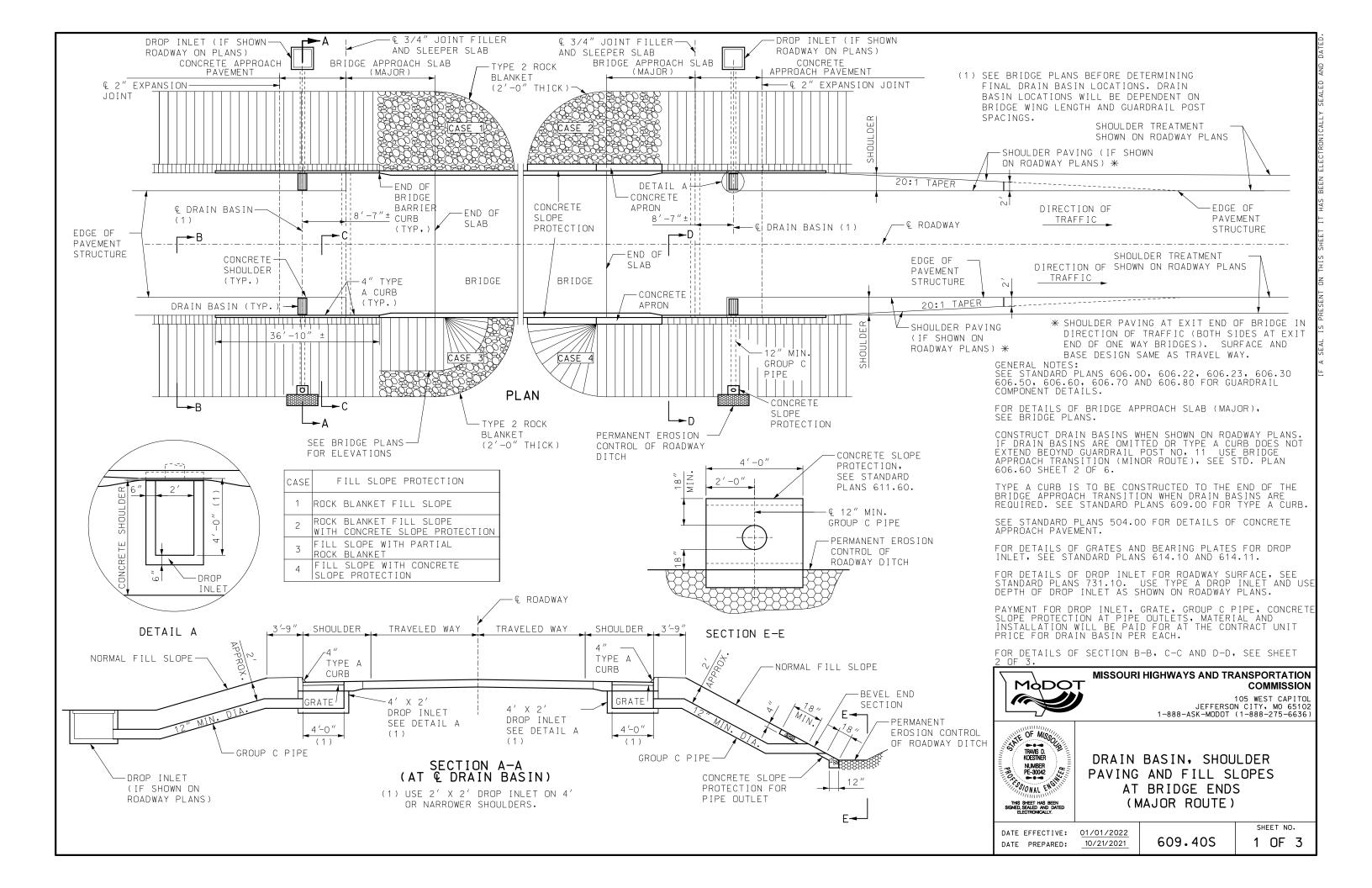
7/13/2021

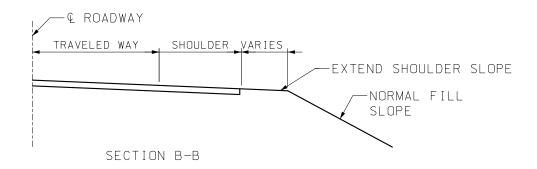
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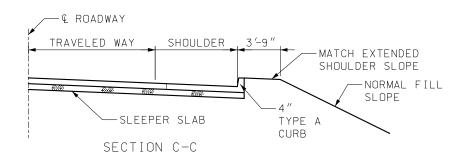
SHEET NO. 1 OF 3

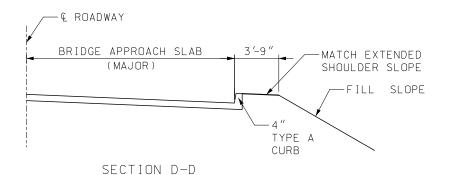




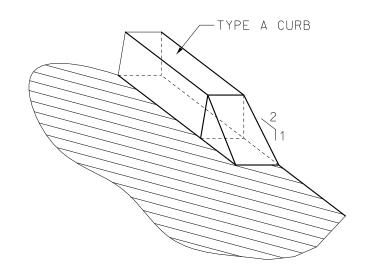








NOTE: FOR DETAILS NOT SHOWN, SEE OTHER SECTIONS.



TYPE A CURB TRANSITION DETAIL

GENERAL NOTE:

FOR LOCATION OF SEC. B-B, C-C AND D-D, SEE SHEET 1 OF 3.



MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



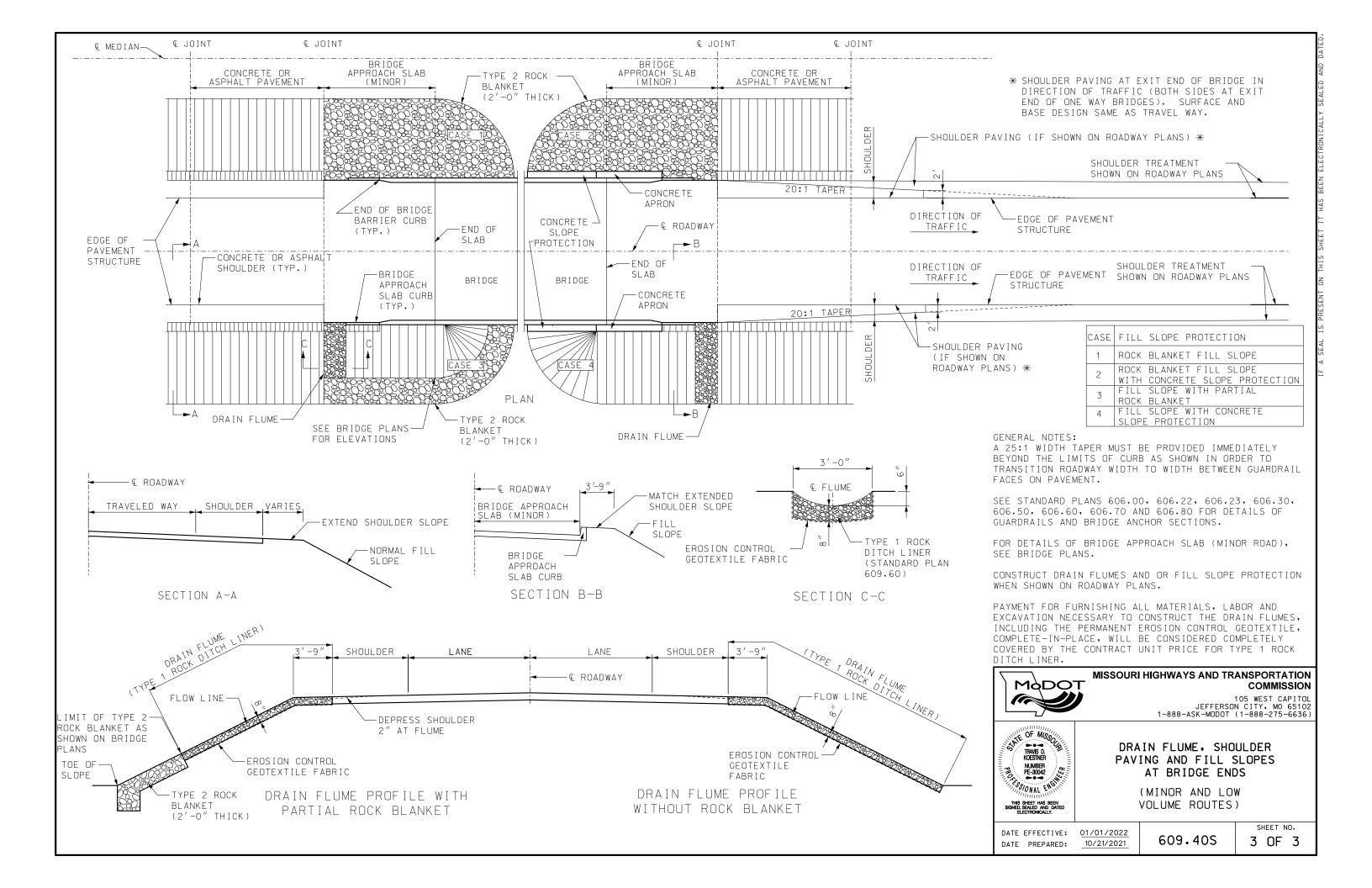
DRAIN BASIN, SHOULDER PAVING AND FILL SLOPE AT BRIDGE ENDS (MAJOR ROUTE)

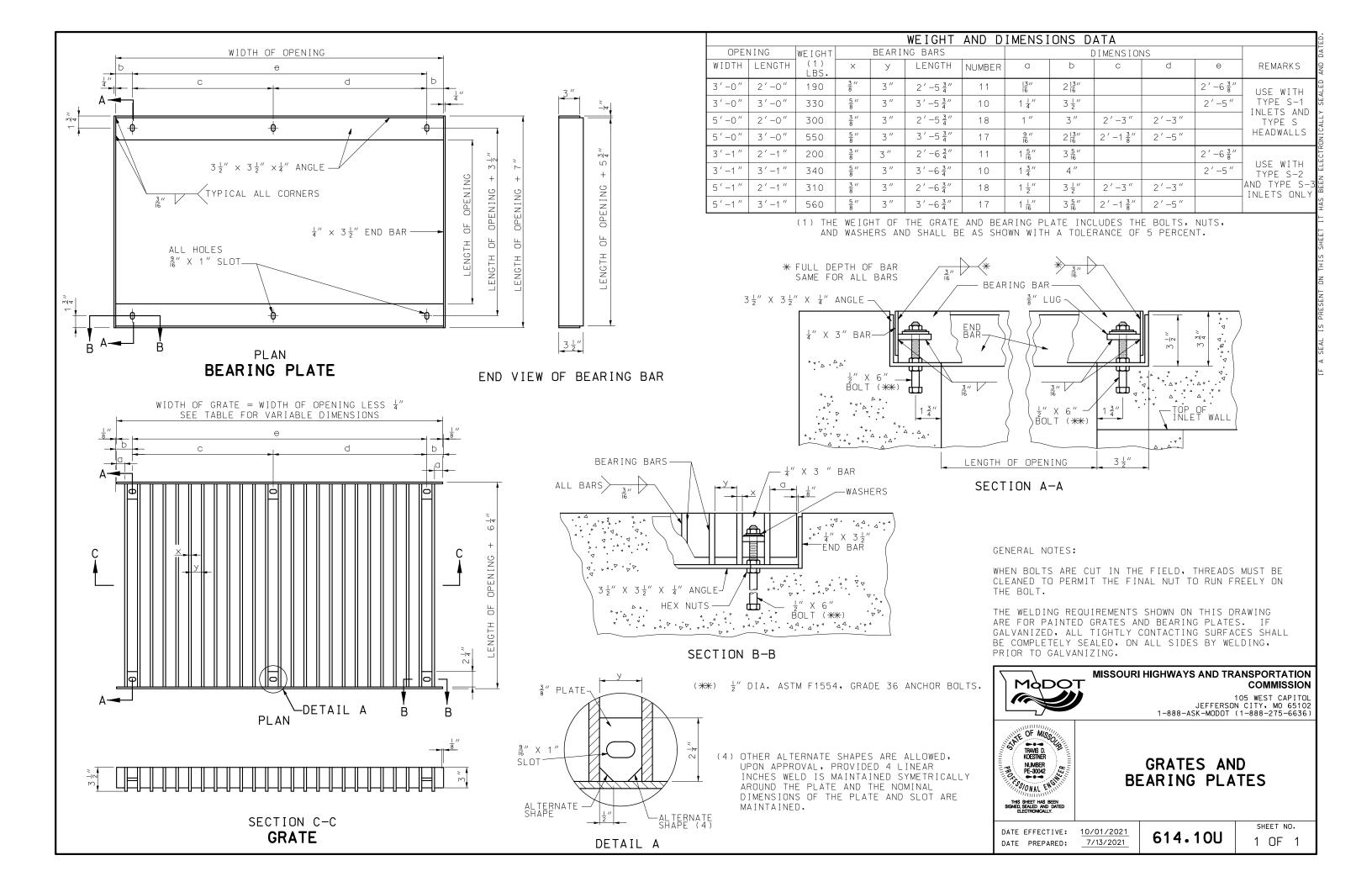
DATE EFFECTIVE: 10/01/2021 DATE PREPARED: 7/13/2021

609.405

SHEET NO.

2 OF 3





WARNING SIGNS							
SIGN	SIZE (IN.)	AREA	SHEETING	SYM. LEG. BRD.	BACK GROUND	DESIGNATION	DESCRIPTION
WO1-1L	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	TURN (SYMBOL LEFT ARROW)
WO1-1R	48X48	16.00	ASTM 9 OR 11	ВК	FL. OR	SHF	TURN (SYMBOL RIGHT ARROW)
WO1-2L	48X48	16.00	ASTM 9 OR 11	ВК	FL. OR	SHF	CURVE (SYMBOL LEFT ARROW)
WO1-2R	48X48	16.00	ASTM 9 OR 11	ВК	FL. OR	SHF	CURVE (SYMBOL RIGHT ARROW)
WO1-3L	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	REVERSE TURN (SYMBOL LEFT ARROW)
WO1-3R	48X48	16.00	ASTM 9 OR 11	ВК	FL. OR	SHF	REVERSE TURN (SYMBOL RIGHT ARROW)
WO1-4L	48X48	16.00	ASTM 9 OR 11	ВК	FL. OR	SHF	REVERSE CURVE (SYMBOL LEFT ARROW)
WO1-4R	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	REVERSE CURVE (SYMBOL RIGHT ARROW)
W01-4bL	48X48	16.00	ASTM 9 OR 11	BK	FL. OR		DOUBLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS) (2)
W01-4bR	48X48	16.00	ASTM 9 OR 11	BK	FL. OR		DOUBLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS) (2)
W01-4cL W01-4cR	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	TRIPLE ARROW REVERSE CURVE (SYMBOL LEFT ARROWS) (2) TRIPLE ARROW REVERSE CURVE (SYMBOL RIGHT ARROWS) (2)
W01-4CK	48X48 60X30	16.00	ASTM 9 OR 11 ASTM 9 OR 11	BK BK	FL. OR	SHF SHF	HORIZONTAL ARROW (SYMBOL)
W01-6a	72X36	18.00	ASTM 9 OR 11	BK	FL. OR	SHF	HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE) (1)
W01-7	60X30	12.50	ASTM 9 OR 11	BK	FL. OR		DOUBLE HEAD HORIZONTAL ARROW (SYMBOL)
W01-7a	72X36	18.00	ASTM 9 OR 11	BK	FL. OR		DOUBLE HEAD HORIZONTAL ARROW (SYMBOL ON PERMANENT BARRICADE)(1)
WO1-8	18X24	3.00	ASTM 9 OR 11	BK	FL. OR	SHF	CHEVRON (SYMBOL)
W01-8a	30X36	7.50	ASTM 9 OR 11	BK	FL. OR	SHF	CHEVRON (SYMBOL FOR DIVIDED HIGHWAYS)
WO3-1	48X48	16.00	ASTM 9 OR 11	BK	FL. OR		STOP AHEAD (SYMBOL)
WO3-2	48X48	16.00	ASTM 9 OR 11	ВК	FL. OR	SHF	YIELD AHEAD (SYMBOL)
WO3-3	48X48	16.00	ASTM 9 OR 11	ВК	FL. OR		SIGNAL AHEAD (SYMBOL)
WO3-4	48X48	16.00	ASTM 9 OR 11	ВК	FL. OR		BE PREPARED TO STOP
WO3-5	48X48	16.00	ASTM 9 OR 11	ВК	FL. OR		SPEED LIMIT AHEAD
WO4-1L	48X48	16.00	ASTM 9 OR 11	ВК	FL. OR		MERGE (SYMBOL FROM LEFT)
WO4-1R	48X48	16.00	ASTM 9 OR 11	BK	FL. OR		MERGE (SYMBOL FROM RIGHT)
W04-1a(L)	48X48	16.00	ASTM 9 OR 11	BK	FL. OR		MERGE (ARROW SYMBOL) (3)
W04-1a(R)	48X48	16.00	ASTM 9 OR 11	BK	FL. OR		MERGE (ARROW SYMBOL) (3)
W05-1	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	ROAD/BRIDGE/RAMP NARROWS (4)
W05-3 W05-5	48X48	16.00	ASTM 9 OR 11	BK	FL. OR		ONE LANE BRIDGE NARROW LANES (3)
W05-5	48X48 48X48	16.00	ASTM 9 OR 11 ASTM 9 OR 11	BK BK	FL. OR		DIVIDED HIGHWAY (SYMBOL)
W06-2	48X48	16.00	ASTM 9 OR 11	BK	FL. OR		DIVIDED HIGHWAY END (SYMBOL)
W06-3	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	TWO WAY TRAFFIC (SYMBOL)
W07-3a	30X24	5.00	ASTM 9 OR 11	BK	FL. OR	SHF	NEXT XX MILES (PLAQUE)
WO8-1	48X48	16.00	ASTM 9 OR 11	ВК	FL. OR	SHF	ВИМР
WO8-2	48X48	16.00	ASTM 9 OR 11	ВК	FL. OR	SHF	DIP
WO8-3	48X48	16.00	ASTM 9 OR 11	ВК	FL. OR	SHF	PAVEMENT ENDS
WO8-4	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	SOFT SHOULDER
WO8-5	48X48	16.00	ASTM 9 OR 11	ВК	FL. OR		SLIPPERY WHEN WET (SYMBOL)
WO8-6	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	TRUCK CROSSING WITH FLAGS
W08-6c	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	TRUCK ENTRANCE (3)
W08-7a	36X36	9.00	ASTM 9 OR 11	BK	FL. OR	SHF	FRESH OIL/LOOSE GRAVEL (3)
W08-9	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	LOW SHOULDER
W08-11 W08-12	48X48 48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF SHF	NO CENTER LINE
W08-12 W08-15	48X48	16.00	ASTM 9 OR 11 ASTM 9 OR 11	BK BK	FL. OR		GROOVED PAVEMENT
W08-15 W08-15p	30X24	5.00	ASTM 9 OR 11	BK	FL. OR	SHF	MOTORCYCLE (PLAQUE)
WO8-17(L)	48X48	16.00	ASTM 9 OR 11	BK	FL. OR		SHOULDER DROP-OFF (SYMBOL LEFT)
WO8-17(R)	48X48	16.00	ASTM 9 OR 11	BK	FL. OR		SHOULDER DROP OFF (SYMBOL RIGHT) (4)
W08-17p	30X24	5.00	ASTM 9 OR 11	BK	FL. OR		SHOULDER DROP-OFF (PLAQUE)
W10-1	42 RND.	9.62	ASTM 9 OR 11	ВК	FL. YL		RAILROAD CROSSING
WO12-1	24X24	4.00	ASTM 9 OR 11	ВК	FL. OR	SHF	DOUBLE DOWN ARROW (SYMBOL)
WO12-2	48X48	16.00	ASTM 9 OR 11	ВК	FL. OR	SHF	LOW CLEARANCE (SYMBOL)
W012-2×	24X18	3.00	ASTM 9 OR 11	ВК	FL. OR	SHF	LOW CLEARANCE (PLAQUE) (3)
W012-2a	84X24	14.00	ASTM 9 OR 11	ВК	FL. OR		OVERHEAD LOW CLEARANCE (FEET AND INCHES) (3)
WO12-4	120X60	50.00	ASTM 9 OR 11	BK	FL. OR	SHF	LOW CLEARANCE XX FT XX IN XX MILES AHEAD (3)
W012-5	120X60	50.00	ASTM 9 OR 11	BK	FL. OR	SHF	WIDTH RESTRICTION XX FT XX IN XX MILES AHEAD (3)
W013-1	30X30	6.25	ASTM 9 OR 11	BK	FL. OR	SHF	ADVISORY SPEED (PLAQUE)
W016-2	30X24	5.00	ASTM 9 OR 11	BK	FL. OR	SHF	XXX FEET (PLAQUE)
W016-3 W020-1	30X24	5.00	ASTM 9 OR 11	BK	FL, OR	SHF	X MILE (PLAQUE)
W020-1	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF SHF	ROAD/BRIDGE/RAMP WORK AHEAD (4) DETOUR AHEAD
W020-2 W020-3	48X48 48X48	16.00	ASTM 9 OR 11	BK	FL. OR		ROAD CLOSED AHEAD
W020-3	48X48 48X48	16.00	ASTM 9 OR 11 ASTM 9 OR 11	BK BK	FL. OR	SHF	ONE LANE ROAD AHEAD
W020-5	48X48	16.00	ASTM 9 OR 11	BK	FL. OR		RIGHT/CENTER/LEFT LANE CLOSED AHEAD (4)
	10/10	10.00	MOTIMI OUVIT	ווט	II L. OIV	5/11	(4)

- (1) SIGN DEPICTION, ARROW, BORDERS AND SPACING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF "STANDARD HIGHWAY SIGNS" BY THE U.S. DEPARTMENT OF TRANSPORTATION FHWA.
- (2) REFER TO THE LATEST EDITION OF MUTCD PART VI BY THE U.S. DEPARTMENT OF TRANSPORTATION FHWA FOR SIGN DEPICTION. ARROW, BORDERS AND SPACING SHALL CONFORM TO THE GUIDELINES SET FORTH IN THE LATEST EDITION OF "STANDARD HIGHWAY SIGNS" BY THE U.S. DEPARTMENT OF TRANSPORTATION FHWA.
- (3) ARROW, BORDERS AND SPACING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF "STANDARD HIGHWAY SIGNS" BY THE U.S. DEPARTMENT OF TRANSPORTATION FHWA.
- (4) USE OF A SUPPLEMENTAL PLATE FOR LINE 1 IS ACCEPTABLE.
- (5) PLAQUE AND APPLICABLE REGULATORY SIGN MAY BE MANUFACTURED AS ONE SIGN.
- (6) SHF REFER TO STD, 903,02 SHEET 1 OF 8

GENERAL NOTES:

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF "STANDARD HIGHWAY SIGNS" BY THE U.S. DEPARTMENT OF TRANSPORTATION - FHWA, UNLESS SPECIFIED OTHERWISE.

SIGN DIMENSIONS SHOWN ARE MINIMUM. NO ADDITIONAL PAYMENT WILL BE MADE IF CONTRACTORS USE LARGER SIGNS.

NO ADDITIONAL PAYMENT WILL BE MADE FOR PLATES.

ALL PLAQUES SHALL HAVE A BORDER. PLATES SHALL NOT HAVE A BORDER.



MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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



TEMPORARY TRAFFIC CONTROL DEVICES WARNING SIGNS

DATE EFFECTIVE: 10/01/2021 DATE PREPARED: 7/13/2021

616.10AY

SHEET NO. 6 OF 9

						WARNING SIGNS	S
	SIZE	AREA			OLOR		
SIGN			SHEETING	SYM. LEG.	BACK	DESIGNATION	DESCRIPTION
W000 5	(IN.)	(SQ. FT.)		BRD.	GROUND	CHE	
W020-5a	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	2 RIGHT/CENTER/LEFT LANES CLOSED AHEAD (4)
W020-6a	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF SHF	RIGHT/CENTER/LEFT LANE CLOSED (3)(4)
W020-7	48X48	16.00	ASTM 9 OR 11	BK	FL. OR		FLAGGER (SYMBOL) WITH FLAGS
W021-5 W021-5a	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF SHF	SHOULDER WORK/SHOULDER WORK AHEAD (3)
W021-50	48X48 48X48	16.00	ASTM 9 OR 11 ASTM 9 OR 11	BK BK	FL. OR	SHF	RIGHT SHOULDER CLOSED
W021-3D W022-1	48X48	16.00	ASTM 9 OR 11	BK	FL. OR	SHF	RIGHT SHOULDER CLOSED AHEAD BLASTING ZONE AHEAD
W022-2	48X48 42X36	10.50	ASTM 9 OR 11	BK	FL. OR	SHF	TURN OFF 2-WAY RADIO AND PHONE
W022-3	42X36	10.50	ASTM 9 OR 11	BK	FL. OR	SHF	END BLASTING ZONE
G022-1	15X21	2,19	ASTM 9 OR 11	BK	FL. OR	SHF	WET PAINT (ARROW PIVOTS) (3)
						GUIDE SIGNS	
E05-1	36X48	12.00	ASTM 9 OR 11	BK	FL. OR	SHF	GORE EXIT (3)
E05-2	48X36	12.00	ASTM 9 OR 11	BK	FL. OR	SHF	EXIT OPEN (3)
E05-2a	48X36	12.00	ASTM 9 OR 11	BK	FL. OR	SHF	EXIT CLOSED
G020-1	60X24	10.00	ASTM 9 OR 11	BK	FL, OR	SHF	ROAD WORK NEXT XX MILES
G020-2 G020-4	48X24	8.00	ASTM 9 OR 11	BK	FL. OR	SHF	PILOT CAR FOLLOW ME - REAR VEHICLE MOUNT SIGN
G020-4 G020-4a	36X18	4.50	ASTM 9 OR 11	BK	FL. OR	SHF	
G020-4a	42X30 18X12	8.75 1.50	ASTM 9 OR 11	BK BK	FL. OR	SHF SHF	PILOT CAR IN USE WAIT & FOLLOW - STATE ROUTE SIGN PILOT CAR IN USE WAIT & FOLLOW - NON-STATE ROUTE SIGN
G020-4a G020-5aP	36X24	6.00	ASTM 9 OR 11 ASTM 9 OR 11	BK	FL. OR	SHF	WORK ZONE (PLAQUE) (3) (5)
MO4-8a	24X18	3.00	ASTM 9 OR 11	BK	FL. OR	SHF	END DETOUR
MO4-9L	48X36	12.00	ASTM 9 OR 11	BK	FL. OR	SHF	DETOUR (LEFT ARROW)
MO4-9R	48X36	12.00	ASTM 9 OR 11	BK	FL. OR	SHF	DETOUR (RIGHT ARROW)
MO4-9P	48X12	4.00	ASTM 9 OR 11	BK	FL. OR	SHF	STREET NAME (PLAQUE)
MO4-10L	48X18	6.00	ASTM 9 OR 11	ВК	FL. OR	SHF	DETOUR (ARROW LEFT)
MO4-10R	48X18	6.00	ASTM 9 OR 11	BK	FL. OR	SHF	DETOUR (ARROW RIGHT)
						REGULATORY SIG	
R1-1	48X48	13,25	ASTM 4	WH	RD	SH	STOP
R1-2	48 TRI.	6.93	ASTM 4	RD	WH	SH	YIELD
R1-2a	36X36	9.00	ASTM 4	BK	WH	SH	TO ONCOMING TRAFFIC (PLAQUE)
R1-3p	30X12	2.50	ASTM 4	WH	RD	SH	ALL WAY (PLAQUE)
R2-1	36X48	12.00	ASTM 4	BK	WH	SH	SPEED LIMIT XX
R3-1	48X48	16.00	ASTM 4	BK/RD	WH	SH	NO RIGHT TURN (SYMBOL)
R3-2	48X48	16.00	ASTM 4	BK/RD	WH	SH	NO LEFT TURN (SYMBOL)
R3-3	36X36	9.00	ASTM 4	BK	WH	SH	NO TURNS
R3-4 R3-7L	48X48	16.00	ASTM 4	BK/RD	WH	SH	NO U-TURN (SYMBOL)
	30X30	6.25	ASTM 4	BK	WH	SH	LEFT LANE MUST TURN LEFT
R3-7R R4-1	30X30 36X48	6.25 12.00	ASTM 4 ASTM 4	BK BK	WH WH	SH SH	RIGHT LANE MUST TURN RIGHT DO NOT PASS
R4-1 R4-2	36X48	12.00	ASTM 4	BK	WH WH	SH	PASS WITH CARE
R4-7a	36X48	12.00	ASTM 4	BK	WH WH	SH	KEEP RIGHT (HORIZONTAL ARROW)
R4-8a	36X48	12.00	ASTM 4	BK	WH	SH	KEEP LEFT (HORIZONTAL ARROW)
R5-1	30X30	6.25	ASTM 4	RD	WH	SH	DO NOT ENTER
R5-1a	36X24	6.00	ASTM 4	WH	RD	SH	WRONG WAY
R6-1L	54X18	6.75	ASTM 4	ВК	WH	SH	ONE WAY ARROW (LEFT)
R6-1R	54X18	6.75	ASTM 4	ВК	WH	SH	ONE WAY ARROW (RIGHT)
R6-2L	24X30	5.00	ASTM 4	ВК	WH	SH	ONE WAY (LEFT)
R6-2R	24X30	5.00	ASTM 4	ВК	WH	SH	ONE WAY (RIGHT)
R9-9	24X12	2.00	ASTM 4	BK	WH	SH	SIDEWALK CLOSED
R9-11L	24X18	3.00	ASTM 4	ВК	WH	SH	SIDEWALK CLOSED AHEAD, (ARROW RIGHT) CROSS HERE
R9-11R	24X18	3.00	ASTM 4	ВК	WH	SH	SIDEWALK CLOSED AHEAD, (ARROW LEFT) CROSS HERE
R10-6	24X36	6.00	ASTM 4	ВК	WH	SH	STOP HERE ON RED (45° ARROW)
R11-2	48X30	10.00	ASTM 4	BK	WH	SH	ROAD CLOSED
R11-3a	60X30	12.50	ASTM 4	BK	WH	SH	ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY
R11-4	60X30	12.50	ASTM 4	BK	WH	SH	ROAD CLOSED TO THRU TRAFFIC
CONST-3A	60X48	20.00	ASTM 4	BK	WH/ FL. OR	SH	FINE SIGN (3)
CONST-3X	56X12	4.67	ASTM 4	BK	WH	SH	SPEEDING/PASSING (PLATE) (3)
CONST-5	48X36	12.00	ASTM 4	WH	BL MIS	SCELLANEOUS SI SH	IGNS POINT OF PRESENCE
CONST-5	96X48	32.00	ASTM 4	WH	BL	SH	POINT OF PRESENCE
CONST-7	72X36	18.00	ASTM 4	WH/BK	BL/FL.OR	SH	RATE OUR WORK ZONE
CONST-7	48X24	8.00	ASTM 4	WH/BK	BL/FL.OR	SH	RATE OUR WORK ZONE
CONST-8	48X36	12.00	ASTM 9 OR 11	BK	FL.OR	SHF	WORK ZONE NO PHONE ZONE
001101 0	10/10	12.00	ASIM S OIV II	וטו		ا ا ا	HOME ZONE NO THORE ZONE

- (1) SIGN DEPICTION, ARROW, BORDERS AND SPACING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF "STANDARD HIGHWAY SIGNS" BY THE U.S. DEPARTMENT OF TRANSPORTATION FHWA.
- (2) REFER TO THE LATEST EDITION OF MUTCD PART VI BY THE U.S. DEPARTMENT OF TRANSPORTATION FHWA FOR SIGN DEPICTION. ARROW, BORDERS AND SPACING SHALL CONFORM TO THE GUIDELINES SET FORTH IN THE LATEST EDITION OF "STANDARD HIGHWAY SIGNS" BY THE U.S. DEPARTMENT OF TRANSPORTATION FHWA.
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- (4) USE OF A SUPPLEMENTAL PLATE FOR LINE 1 IS ACCEPTABLE.
- (5) PLAQUE AND APPLICABLE REGULATORY SIGN MAY BE MANUFACTURED AS ONE SIGN.
- (6) SH REFER TO STD, 903,02 SHEET 1 OF 8
- (7) SHF REFER TO STD. 903.02 SHEET 1 OF 8

GENERAL NOTES:

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF "STANDARD HIGHWAY SIGNS" BY THE U.S. DEPARTMENT OF TRANSPORTATION - FHWA, UNLESS SPECIFIED OTHERWISE.

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MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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

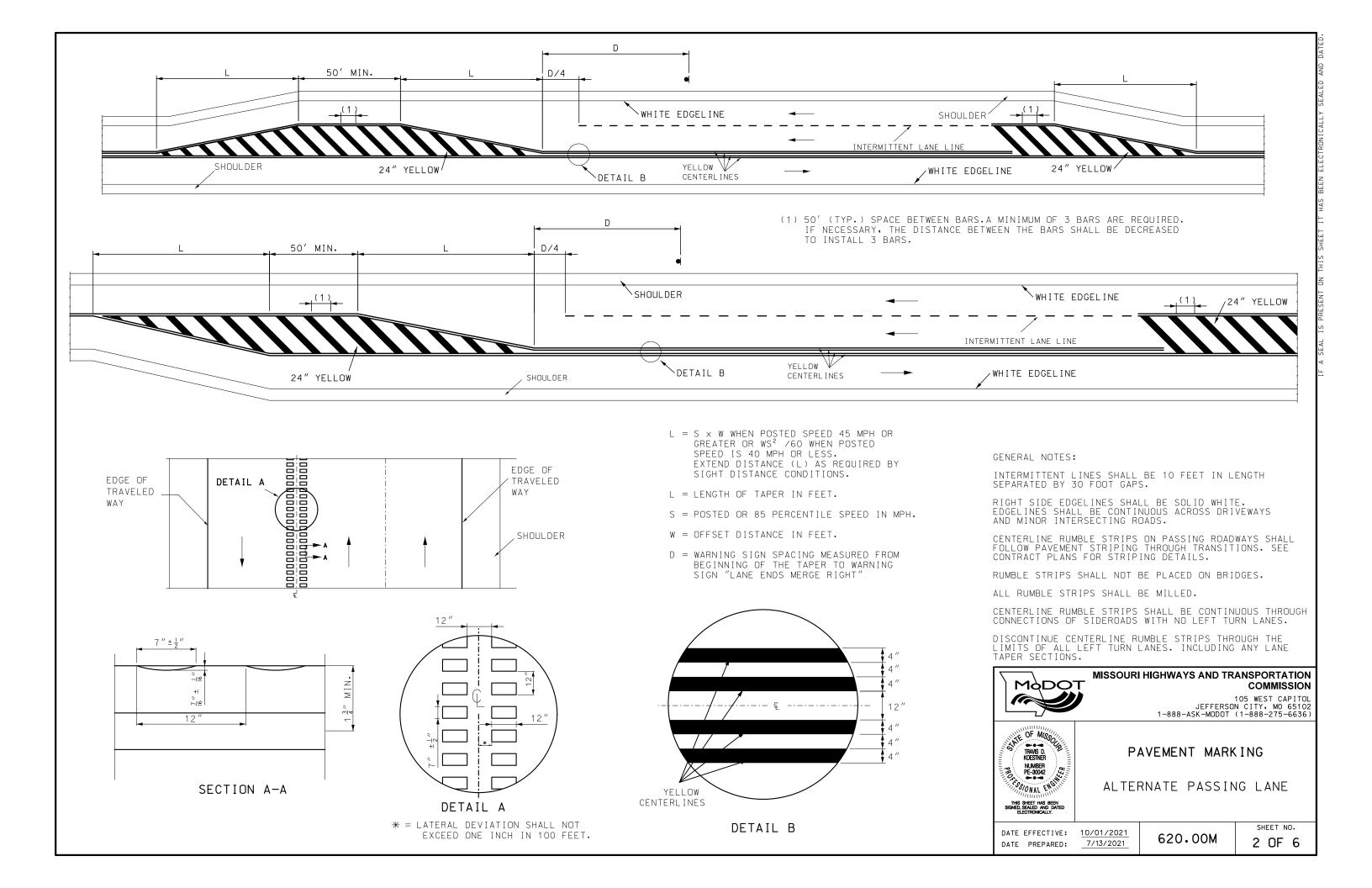


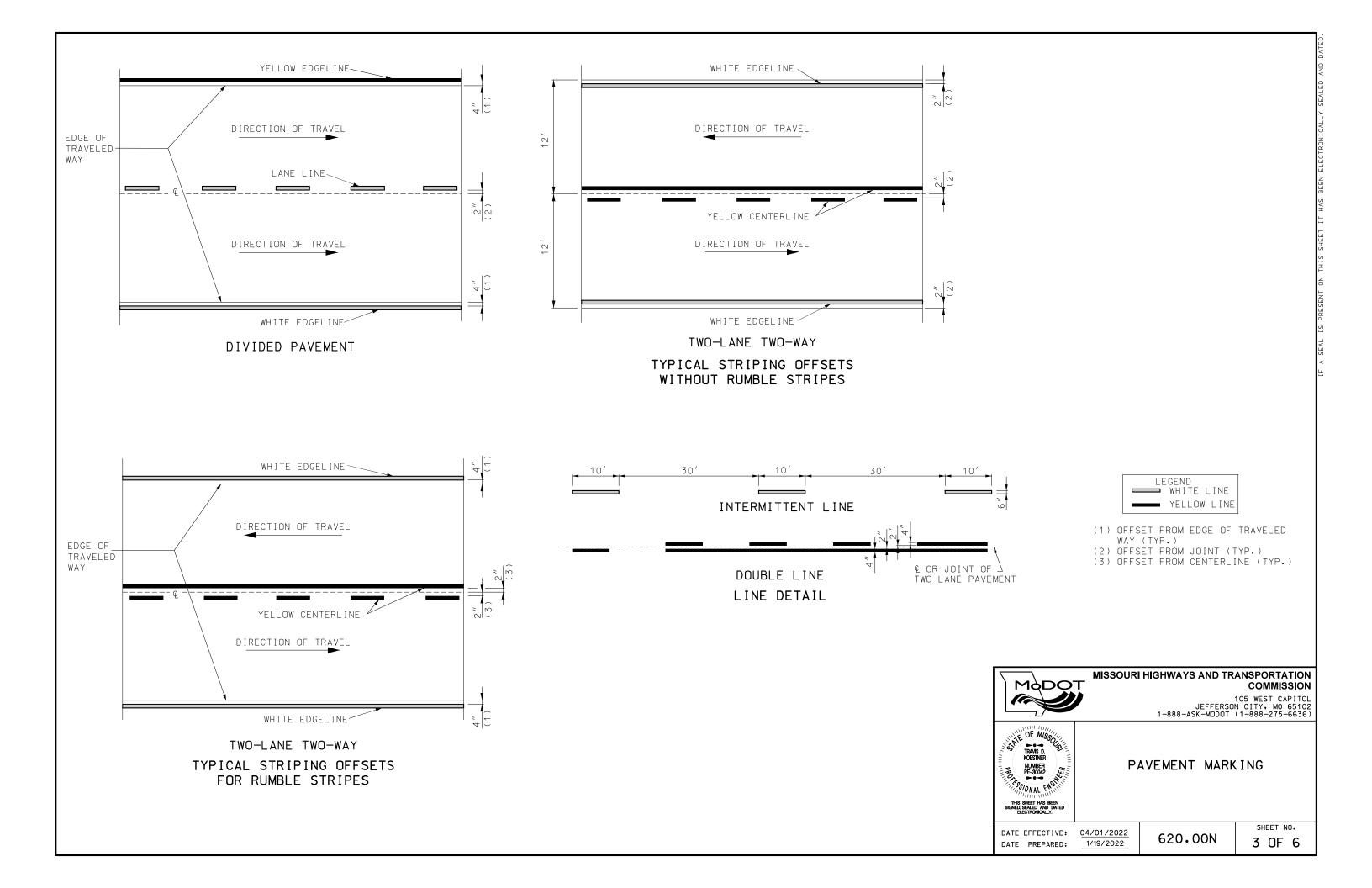
TEMPORARY TRAFFIC CONTROL DEVICES WARNING, GUIDE AND REGULATORY SIGNS

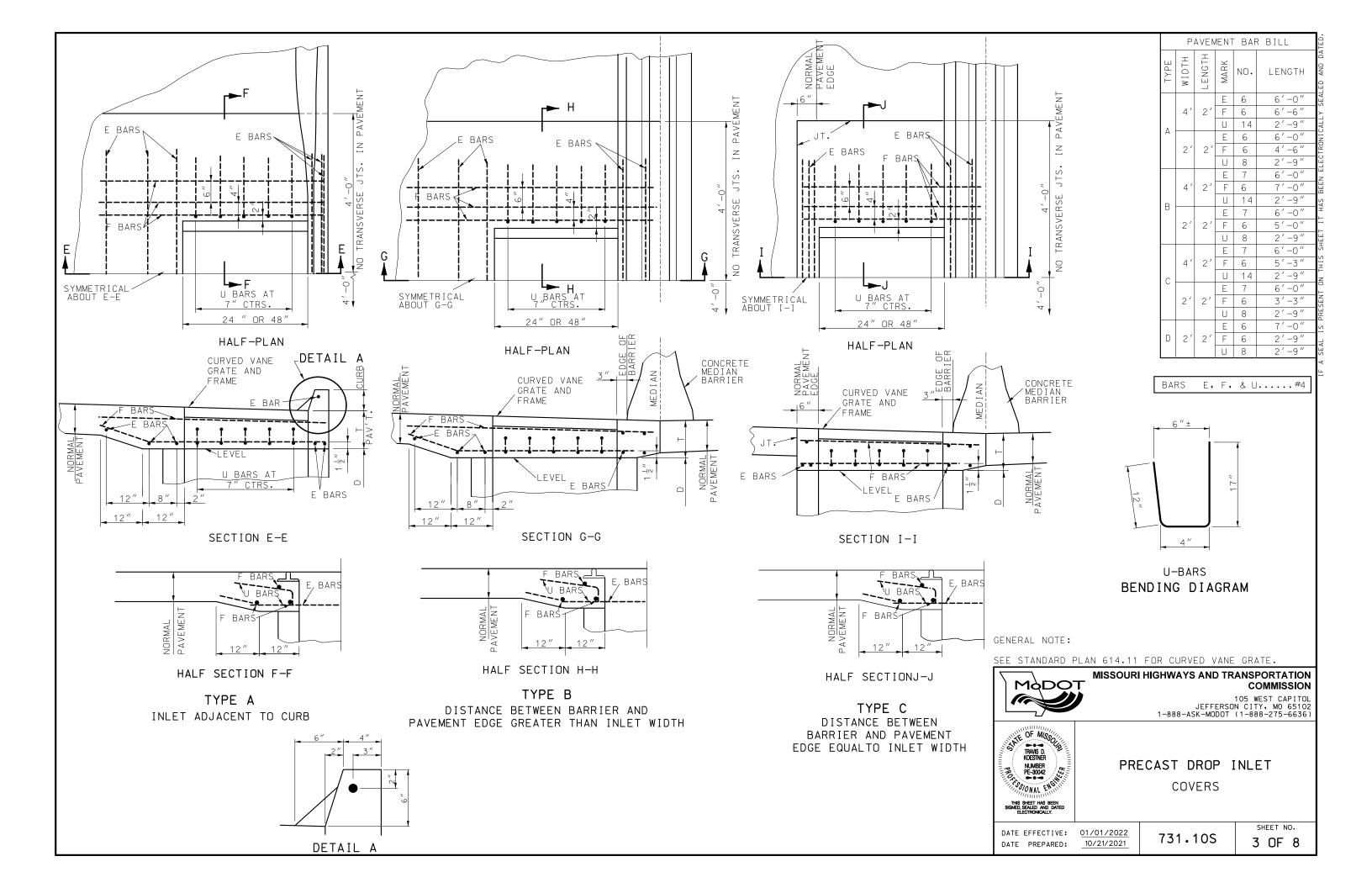
DATE EFFECTIVE: 01/01/2022 DATE PREPARED: 10/21/2021

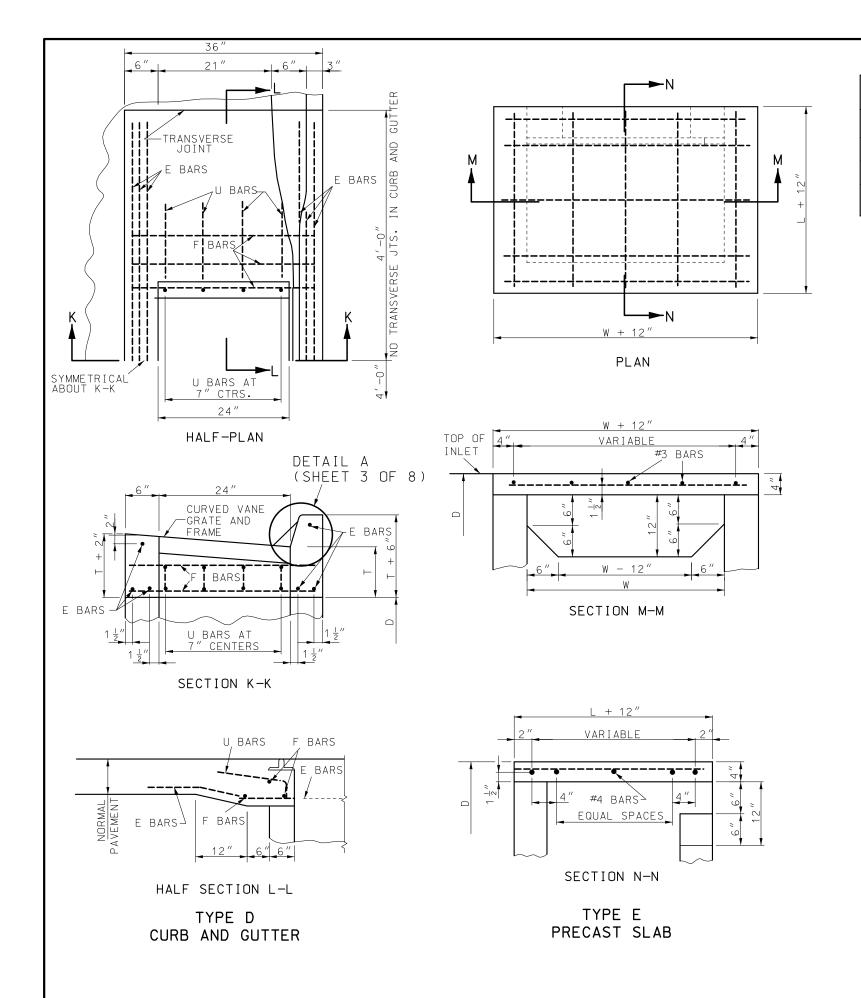
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SHEET NO. 7 OF 9









PAVEMENT THICKNESS	"T" DIMENSION
LESS THAN OR EQUAL TO 11"	11"
12"	12"
13″	13"
GREATER THAN OR EQUAL TO 14"	14"

	TYPE E COVER BAR BILL									
WIDTH	LENGTH	BAR SIZE	NO.	LENGTH						
3′	2' 3'	#3	5	2′-9″						
		#4	5	3′-9″						
3′		#3	5	3′-9″						
		#4	5	3′-9″						
5′	2'	#3	6	2′-9″						
		#4	6	5′-9″						
5′		#3	6	3′-9″						
		#4	7	5′-9″						
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GENERAL NOTES:

THE SIZE OF THE DROP INLET AND TYPE OF COVER WILL BE SHOWN ON THE PLANS.

THE CONFIGURATION DETAILS SHOWN ARE DESCRIPTIVE ONLY AND MAY BE VARIED TO CONFORM WITH ESTABLISHED MANUFACTURING PROCEDURES.

TOP OF DROP INLET WALL SHALL BE CONSTRUCTED TO THE ELEVATION OF BOTTOM OF SLAB AT THE EDGE OF PAVEMENT OR BOTTOM OF CURB AND GUTTER AT DROP INLET.

WHERE THE DROP INLET IS LOCATED IN AN UNPAVED AREA, THE TOP OF THE DROP INLET WALLS SHALL BE SET TO THE ELEVATION SHOWN ON THE PLANS.

ALL CONCRETE ABOVE THE TAR PAPER SEPARATION JOINT IS TO BE CONSTRUCTED DURING PAVING OPERATIONS OR CURB AND GUTTER CONSTRUCTION, AND WILL BE PAID FOR AS SQUARE YARDS OF CONCRETE PAVEMENT OR LINEAR FEET OF CURB AND GUTTER.

FORMED OR CUT-OUT OPENINGS SHALL BE PROVIDED WHERE PIPE INLETS AND OUTLETS ARE SHOWN ON THE PLANS.

REINFORCING BARS IN PAVEMENT SHALL BE EPOXY COATED AND SECURELY TIED TOGETHER AND FASTENED TO AVOID ANY POSSIBLE DISPLACEMENT DURING THE PLACING OF CONCRETE, REINFORCEMENT SHOWN IS IN ADDITION TO ANY REINFORCEMENT SHOWN FOR CONCRETE PAVEMENT OR CURB AND GUTTER.

JOINTS SHALL BE SEALED IN ACCORDANCE WITH SECTION 726.3.1 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR WILL BE PERMITTED TO CAST IN PLACE THE DROP INLETS CALLED FOR IN THE PLANS, TO THE DIMENSIONS REQUIRED FOR PRECAST DROP INLETS.

WELDED WIRE REINFORCEMENT MAY BE IN LIEU OF REINFORCING BARS, THE REINFORCEMENT SHALL NOT BE LESS THAN .23 SQUARE INCHES PER LINEAR FOOT BOTH HORIZONTALLY AND VERTICALLY.

NO DIRECT PAYMENT WILL BE MADE FOR REINFORCING STEEL.

NO DIRECT PAYMENT WILL BE MADE FOR CUTTING PIPE NOR FOR CUTTING OR BENDING REINFORCING STEEL.

THE TOP OF INLET PIPES SHALL NOT BE SET BELOW THE TOP OF THE OUTLET PIPE.

NO DIRECT PAYMENT WILL BE MADE FOR FORMING FOR CURVED VANE GRATES AND FRAMES.

THE REINFORCEMENT SHOWN IS THE MINIMUM REQUIRED. AT THE CONTRACTOR'S OPTION, ADDITIONAL REINFORCEMENT MAY BE USED.

REINFORCING STEEL EDGE DISTANCE WILL BE 1 $\frac{1}{2}^{\prime\prime}$ UNLESS OTHERWISE SPECIFIED.

NOT MORE THEN TWO LIFT HOLES OR LIFTING INSERTS MAY BE PROVIDED.

CLASS 3 EXCAVATION WILL BE PAID WITHIN VERTICAL PLANES 18" OUTSIDE OF THE OUTER WALLS OF THE BASE SECTION OF THE DROP INLETS, CLASS 3 EXCAVATION WILL NOT BE PAID FOR OUTSIDE THE FOOTING LIMITS.

