

MISSOURI HIGHWAYS and TRANSPORTATION COMMISSION

JEFFERSON CITY, MISSOURI

**SUPPLEMENTAL PLANS TO
JULY 2025 MISSOURI STANDARD PLANS
FOR HIGHWAY CONSTRUCTION**

EFFECTIVE October 1, 2025

EFFECTIVE: 10/01/2025

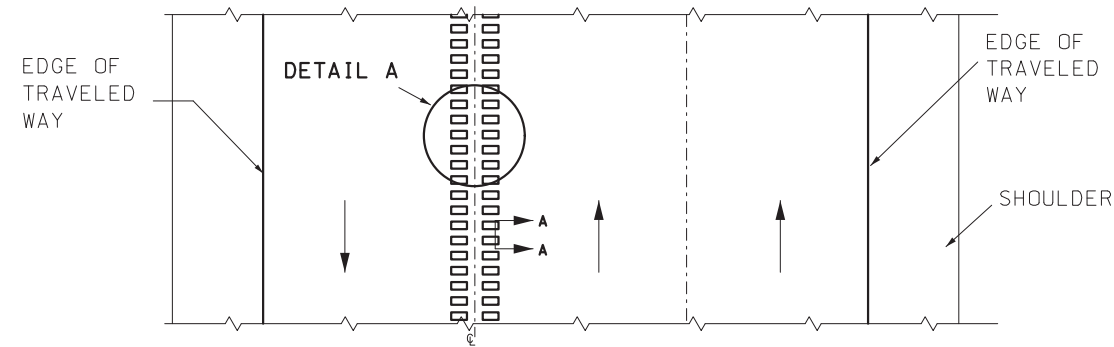
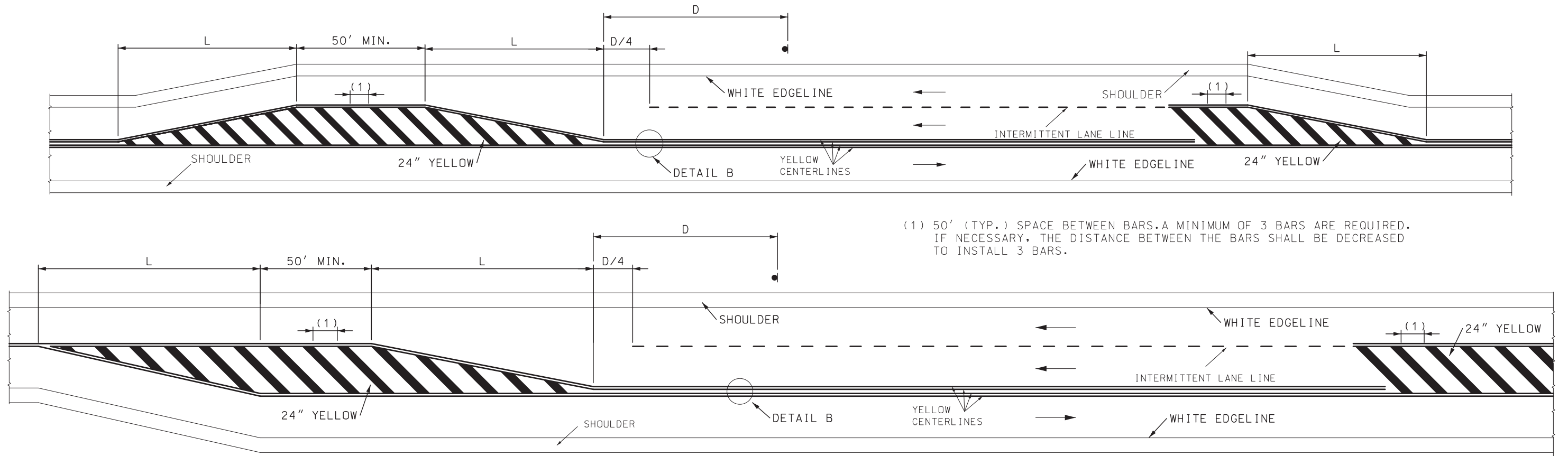
STANDARD NO.	DRAWING TITLE	NO. OF SHEETS	EFFECTIVE DATE
203.00E	EXCAVATION AND EMBANKMENT – TYPICAL DETAILS	1	08/01/1998
203.02F	UNDERGRADING – TYPICAL DETAILS	2	01/01/2004
203.10D	TABULATED EARTHWORK AND SECTION DATA	1	02/01/2009
203.20G	SUPERELEVATION, SPIRALS AND WIDENING (UNDIVIDED HIGHWAY)	4	07/01/2017
203.21K	SUPERELEVATION, SPIRALS AND WIDENING (DIVIDED HIGHWAY)	3	07/01/2017
203.22A	SUPERELEVATION, SPIRALS AND WIDENING	2	04/01/2024
203.35A	MAILBOX TURNOUTS	1	08/01/1981
203.40G	TYPICAL DETAILS ON AND OFF RAMP	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
203.61B	DRIVEWAY – TYPE I	1	07/01/2020
203.62E	DRIVEWAY – TYPE II	2	07/01/2020
203.63C	DRIVEWAY – TYPE III	2	07/01/2020
203.64E	DRIVEWAY – TYPE IV	2	07/01/2020
203.65B	DRIVEWAY – TYPE V	1	07/01/2020
204.00D	EMBANKMENT CONTROL – MEASURING DEVICES	1	04/01/1983
204.30	PORE PRESSURE MEASUREMENT DEVICES	1	03/01/1996
401.00C	TYPE A2 AND A3 SHOULDERS, SAFETY EDGE SM	3	07/01/2018
413.20	SCRUB SEAL BROOM CONFIGURATION	1	07/01/2004
502.05S	CONCRETE PAVEMENT AND BASE APPURTENANCES FOR 15 FT. JOINT SPACING	4	04/01/2023
502.10L	DOWEL SUPPORTING UNITS	2	07/01/2023
504.00L	CONCRETE APPROACH PAVEMENT	3	10/01/2022
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 HEADWALLS – ENERGY DISSIPATOR FOR 18" CONCRETE PIPE	1	07/01/2001
604.11E	PIPE CULVERT HEADWALLS – ENERGY DISSIPATOR FOR 24" CONCRETE PIPE	1	07/01/2001
604.12E	PIPE CULVERT HEADWALLS – ENERGY DISSIPATOR FOR 30" CONCRETE PIPE	1	07/01/2001
604.13E	PIPE CULVERT HEADWALLS – ENERGY DISSIPATOR FOR 36" CONCRETE PIPE	1	07/01/2001
604.14E	PIPE CULVERT HEADWALLS – ENERGY DISSIPATOR FOR 42" CONCRETE PIPE	1	07/01/2001
604.15E	PIPE CULVERT HEADWALLS - 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	07/01/2025
606.01F	MEDIAN PIER PROTECTION	9	04/01/2021
606.22V	BRIDGE ANCHOR SECTION - SAFETY BARRIER CURB ON BRIDGE	6	07/01/2025
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
606.41N	REPAIR ONLY: LOW-TENSION GUARD CABLE	7	07/01/2025
606.42	HIGH-TENSION GUARD CABLE	2	07/01/2024

[illegible]

EFFECTIVE: 10/01/2025

[illegible]

SHEET 2 OF 2



$L = S \times W$ WHEN POSTED SPEED 45 MPH OR GREATER OR $WS^2 / 60$ WHEN POSTED SPEED IS 40 MPH OR LESS. EXTEND DISTANCE (L) AS REQUIRED BY SIGHT DISTANCE CONDITIONS.

L = LENGTH OF TAPER IN FEET.

S = POSTED OR 85 PERCENTILE SPEED IN MPH.

W = OFFSET DISTANCE IN FEET.

D = WARNING SIGN SPACING MEASURED FROM BEGINNING OF THE TAPER TO WARNING SIGN "LANE ENDS MERGE RIGHT"

GENERAL NOTES:

INTERMITTENT LINES SHALL BE 10 FEET IN LENGTH SEPARATED BY 30 FOOT GAPS.

RIGHT SIDE EDGELINES SHALL BE SOLID WHITE. EDGELINES SHALL BE CONTINUOUS ACROSS DRIVEWAYS AND MINOR INTERSECTING ROADS.

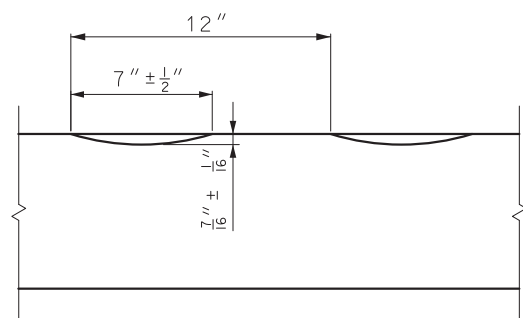
CENTERLINE RUMBLE STRIPS ON PASSING ROADWAYS SHALL FOLLOW PAVEMENT STRIPING THROUGH TRANSITIONS. SEE CONTRACT PLANS FOR STRIPING DETAILS.

RUMBLE STRIPS SHALL NOT BE PLACED ON BRIDGES.

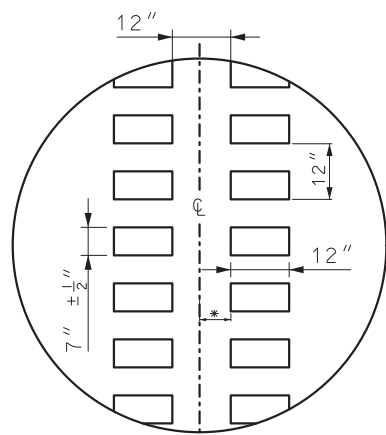
ALL RUMBLE STRIPS SHALL BE MILLED.

CENTERLINE RUMBLE STRIPS SHALL BE CONTINUOUS THROUGH CONNECTIONS OF SIDEROADS WITH NO LEFT TURN LANES.

DISCONTINUE CENTERLINE RUMBLE STRIPS THROUGH THE LIMITS OF ALL LEFT TURN LANES. INCLUDING ANY LANE TAPER SECTIONS.

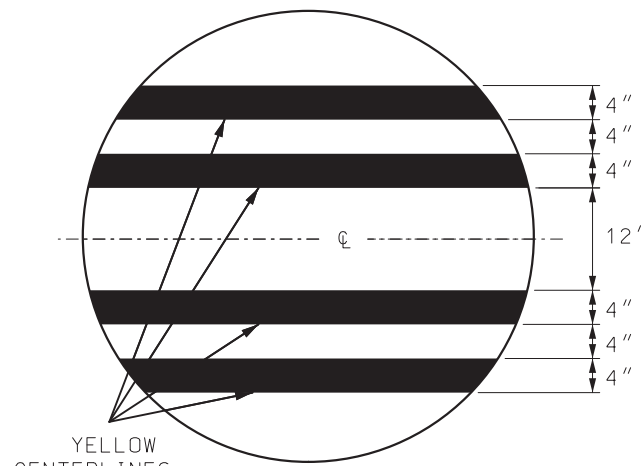


SECTION A-A




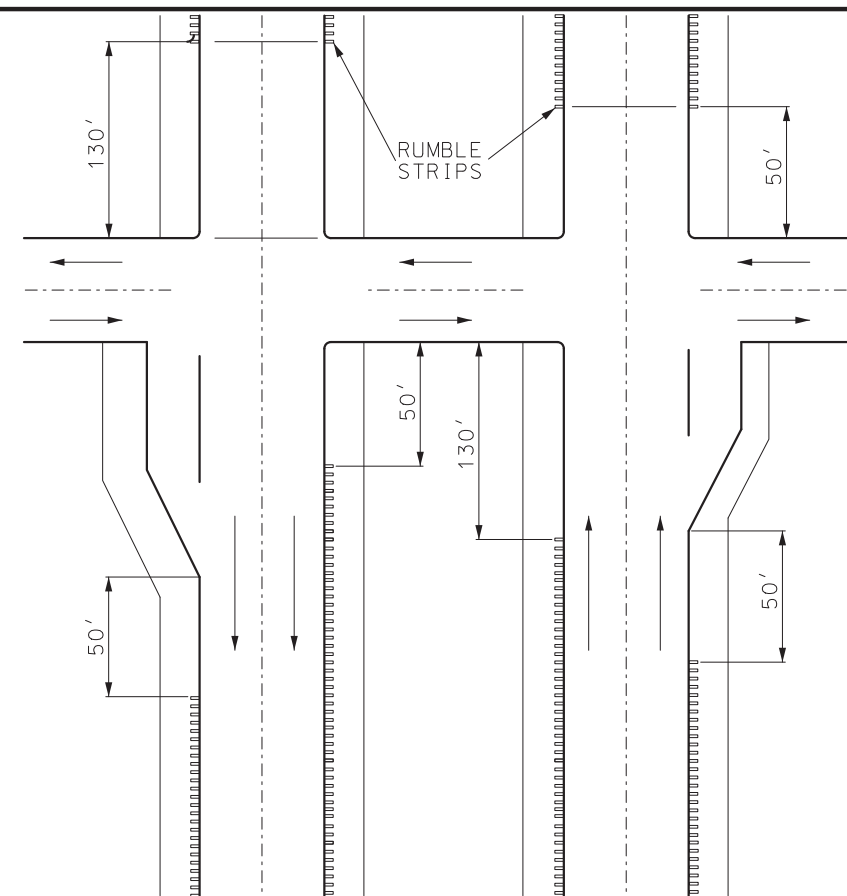
DETAIL A

* = LATERAL DEVIATION SHALL NOT EXCEED ONE INCH IN 100 FEET.

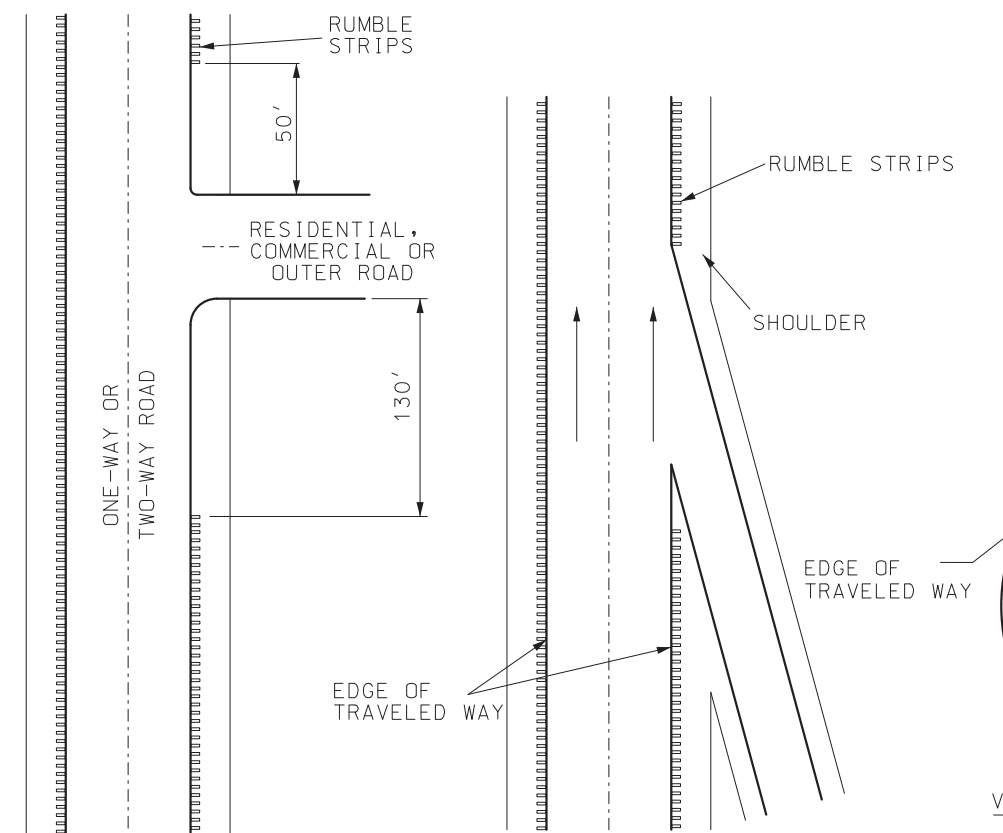


DETAIL B

 MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION 105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)		
PAVEMENT MARKING ALTERNATE PASSING LANE		
	DATE EFFECTIVE: 10/1/2025 DATE PREPARED: 7/2/2025	SHEET NO. 2 OF 6
620.00P		

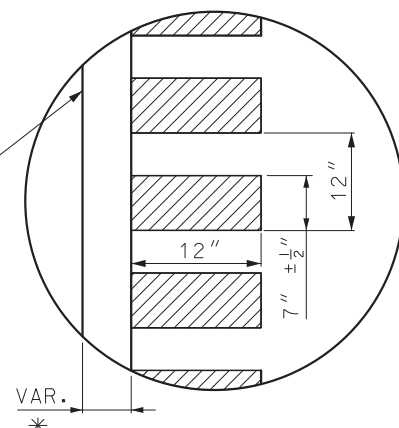


EXPRESSWAY DIVIDED

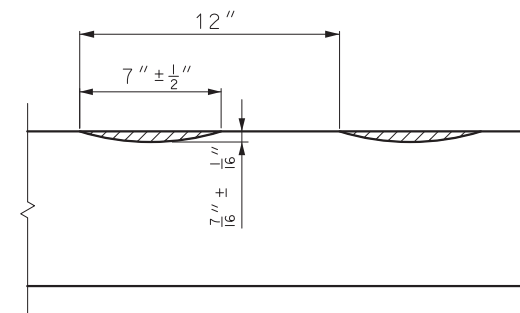


INTERSECTIONS
ACCELERATION OR DECELERATION LANE

RUMBLE STRIP LAYOUTS

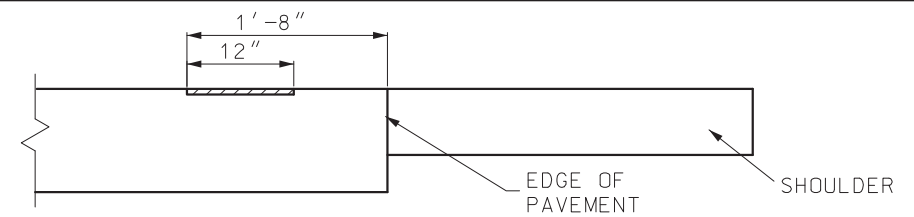


RUMBLE STRIP
PLAN VIEW

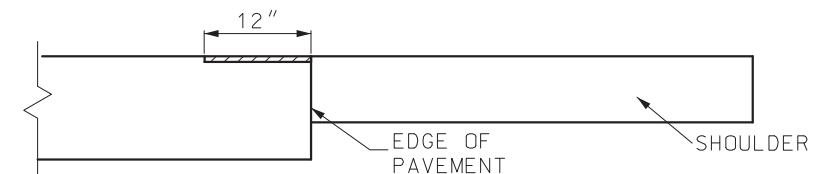


RUMBLE STRIP CROSS SECTION VIEW

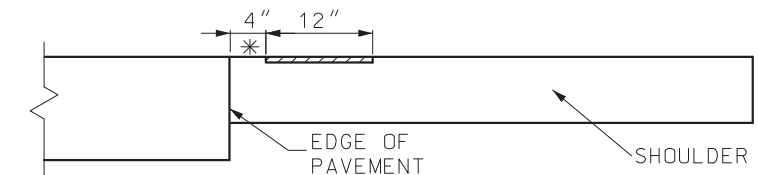
14' PAVEMENT
STRUCTURES,
ALL SHOULDER TYPES



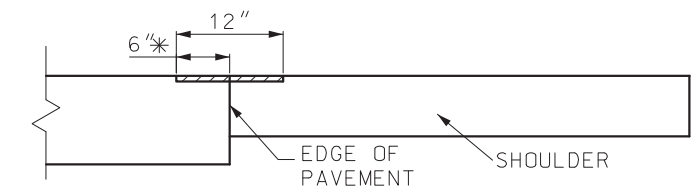
13' PAVEMENT
STRUCTURES,
ALL SHOULDER TYPES



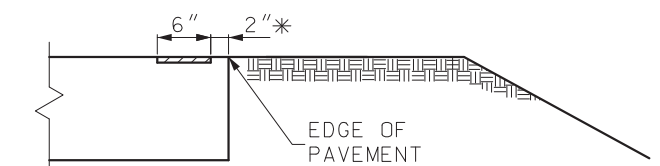
PAVEMENT
STRUCTURES $\leq 12'$
WITH A2 SHOULDER



PAVEMENT
STRUCTURES $\leq 12'$
WITH A3 SHOULDER




PAVEMENT
STRUCTURES $\leq 12'$
WITH EARTH OR
AGGREGATE SHOULDERS



* = LATERAL DEVIATION SHALL NOT
EXCEED ONE INCH IN 100 FEET.

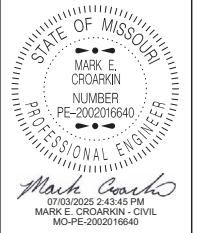
GENERAL NOTES:

- SEE STANDARD PLAN 620.00 FOR PAVEMENT MARKING.
- RUMBLE STRIPS SHALL NOT BE PLACED ON BRIDGES.
- ALL RUMBLE STRIPS SHALL BE MILLED.
- RUMBLE STRIPS SHALL NOT BE MILLED ONTO TRANSVERSE JOINTS.
- FOR CONCRETE PAVEMENT WITH 15' JOINT SPACING, AT LEAST TWELVE RUMBLE STRIPS SHALL BE MILLED PER PANEL.
- RUMBLE STRIPS SHALL BE OMITTED IF SHOULDERS ARE LESS THAN 2' WIDE.



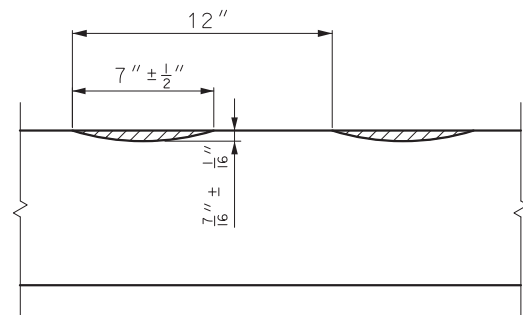
**MISSOURI HIGHWAYS AND TRANSPORTATION
COMMISSION**

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

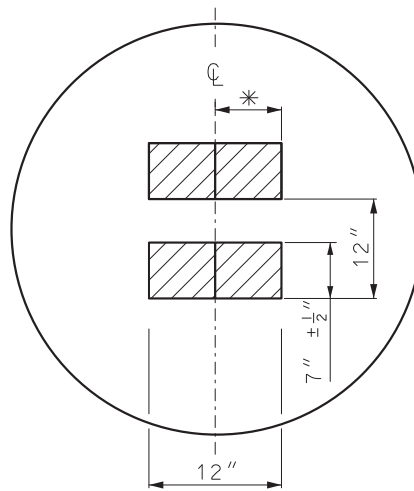


**RUMBLE STRIPS
SHOULDER**

DATE EFFECTIVE:	10/1/2025	626.00J	SHEET NO. 1 OF 2
DATE PREPARED:	7/2/2025		

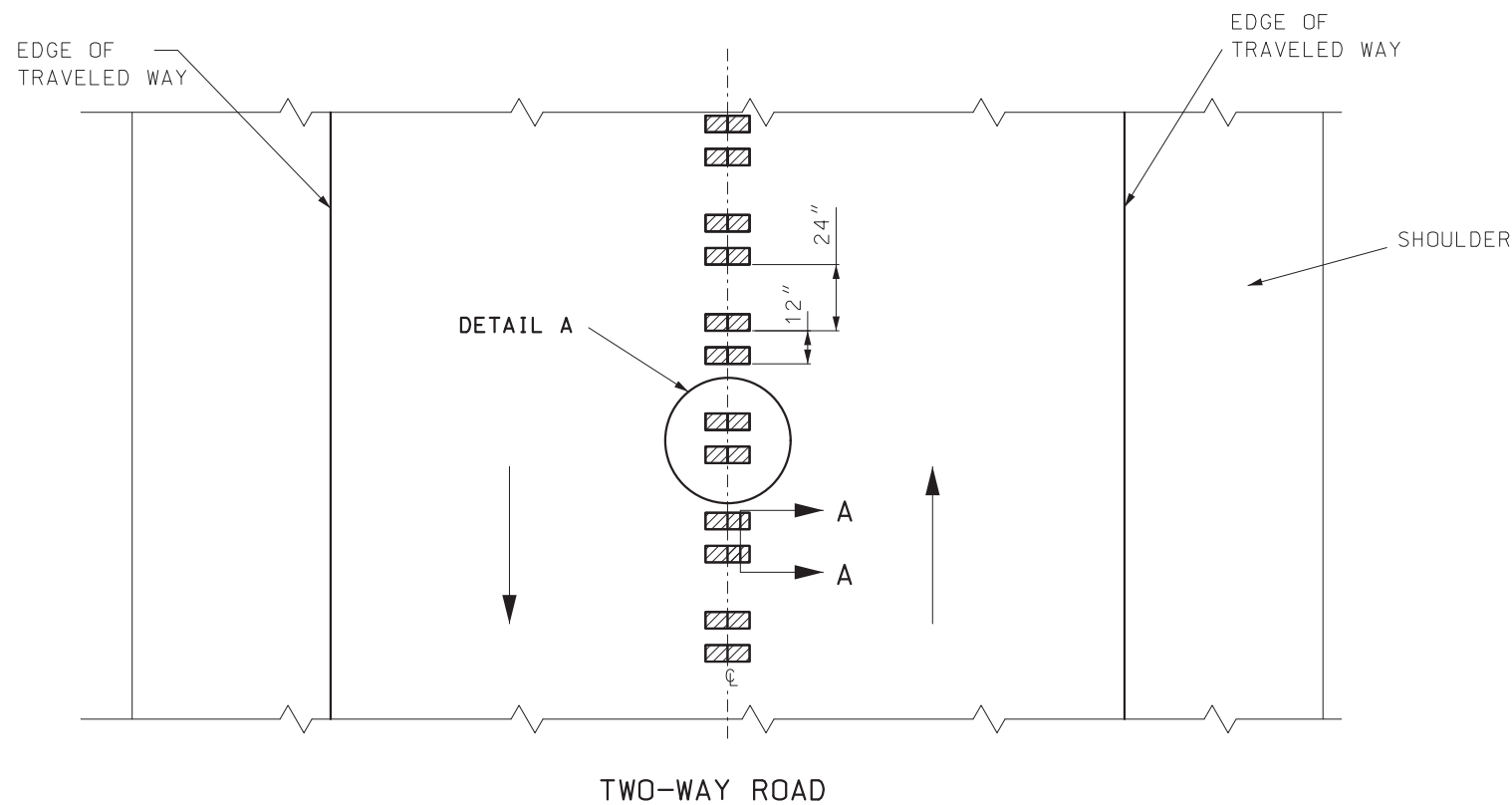


SECTION A-A



DETAIL A

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GENERAL NOTES:

SEE STANDARD PLAN 620.00 FOR PAVEMENT MARKING.

RUMBLE STRIPS SHALL NOT BE PLACED ON BRIDGES.

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DISCONTINUE CENTERLINE RUMBLE STRIPS THROUGH THE LIMITS OF ALL LEFT TURN LANES, INCLUDING ANY LANE TAPER SECTIONS.



MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION

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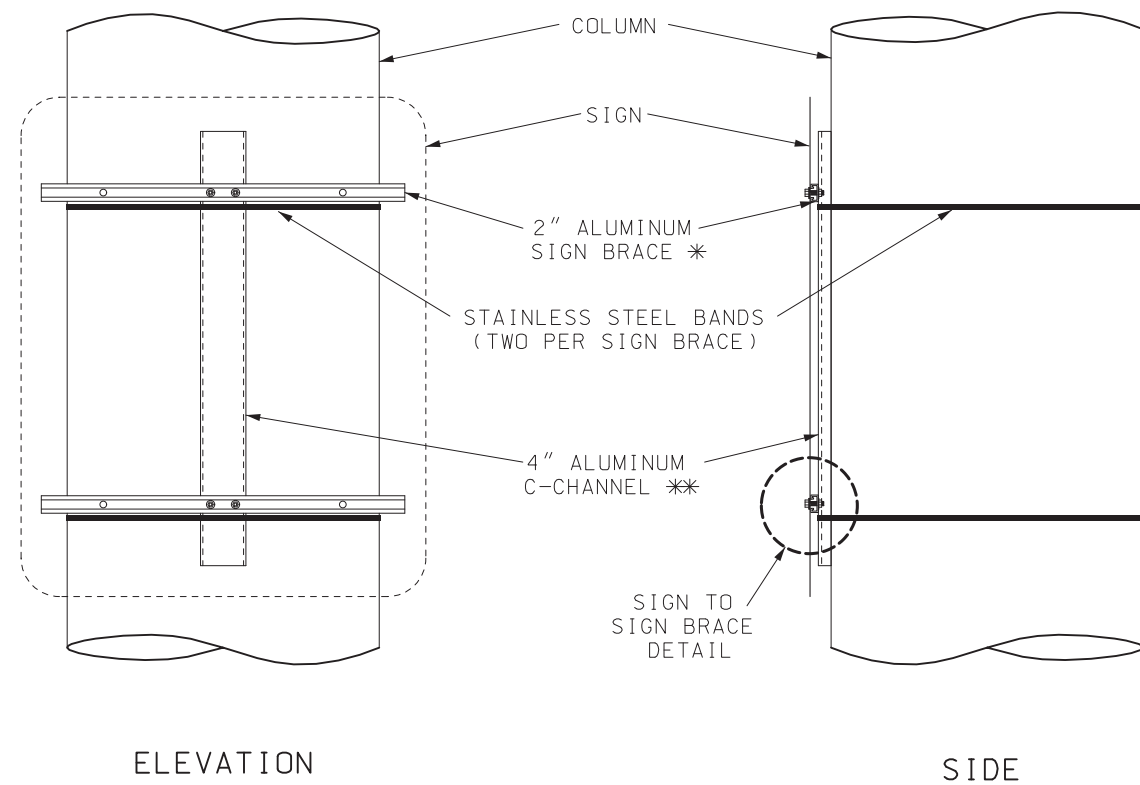


RUMBLE STRIPS
CENTERLINE

DATE EFFECTIVE: 10/1/2025
DATE PREPARED: 7/2/2025

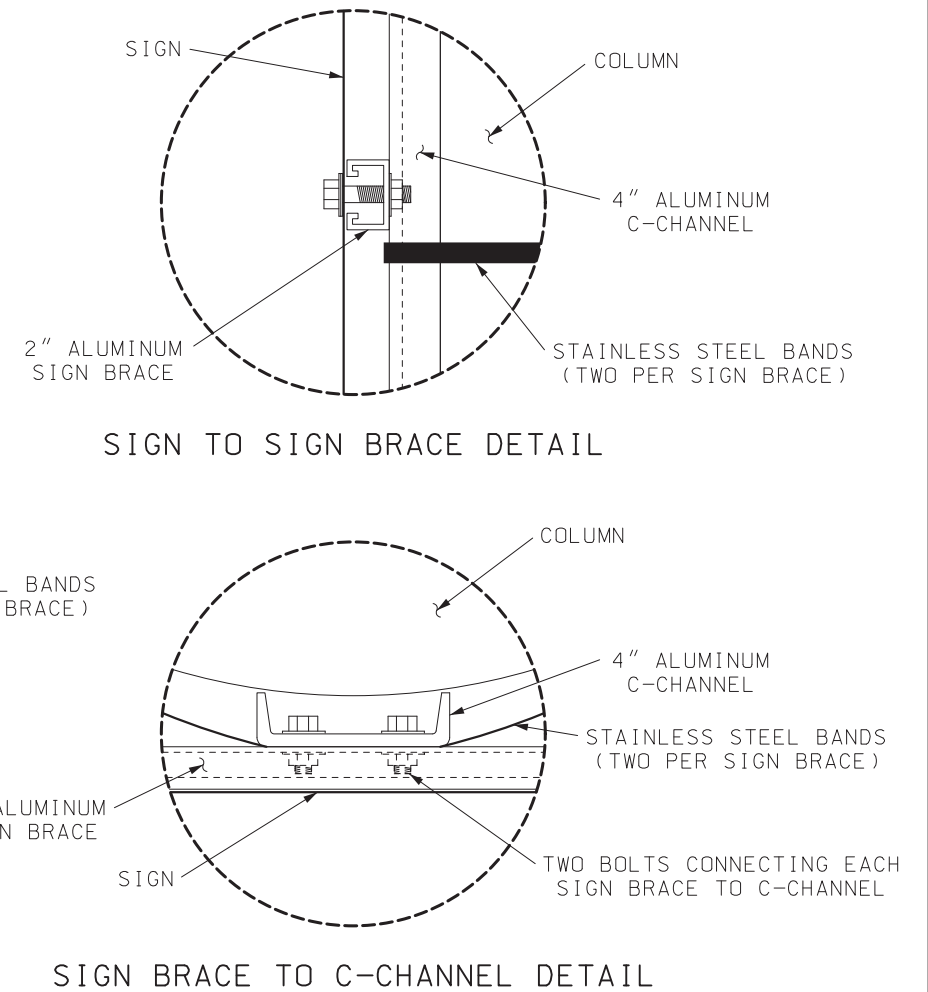
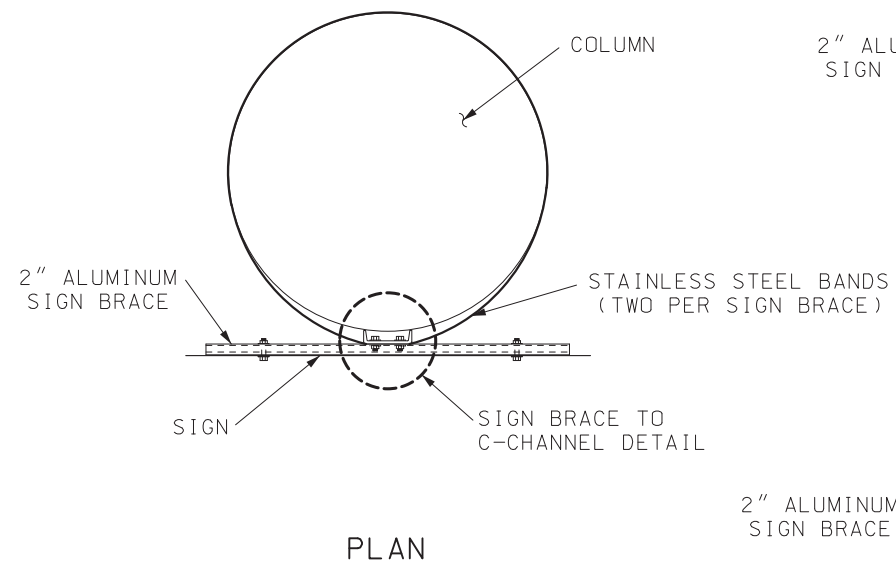
626.00J

SHEET NO.
2 OF 2

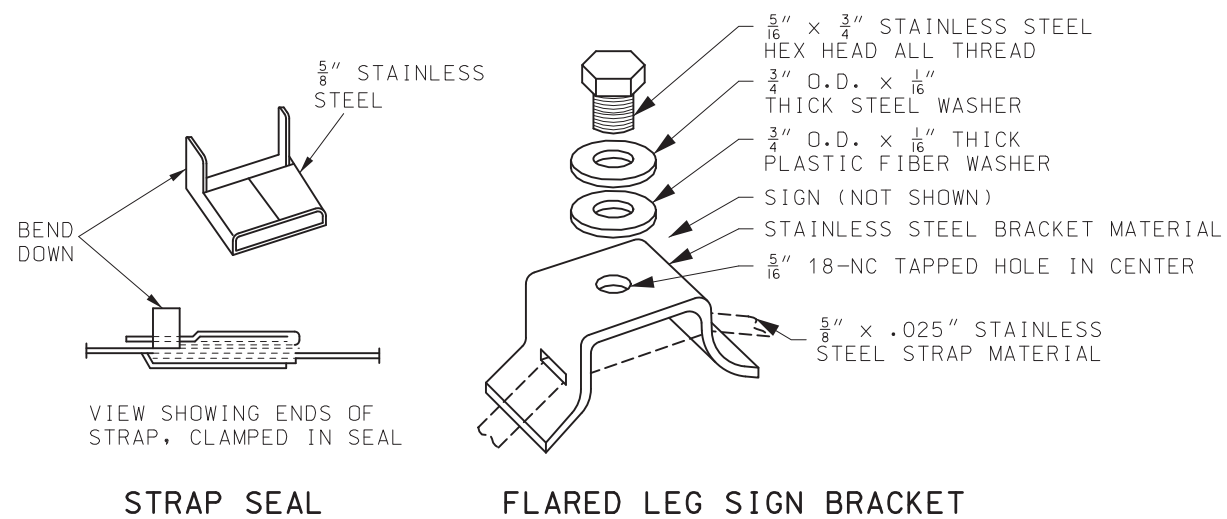


* MAY BE PERFORATED.
NUMBER OF SIGN BRACES DETERMINED BY
HOLE PUNCHING ON STD PLAN 903.02.

** STRUCTURAL 6061T6, MIN. 2.50 LBS/FT



SPECIAL MOUNTING FOR FLAT SHEET $\geq 36"$ WIDE ON ROUND STRUCTURES LOCATED ON FREEWAYS



MOUNTING DETAILS FOR FLAT SHEET ON ROUND STRUCTURES

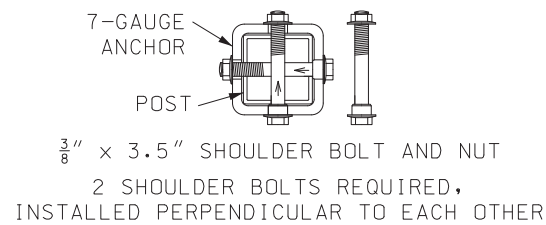
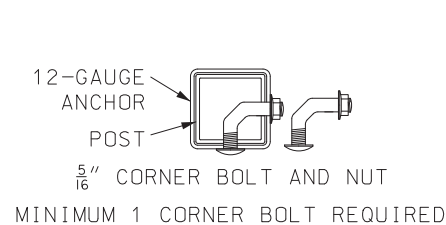
NOTES:

FOR GENERAL NOTES, SEE SHEET 1.

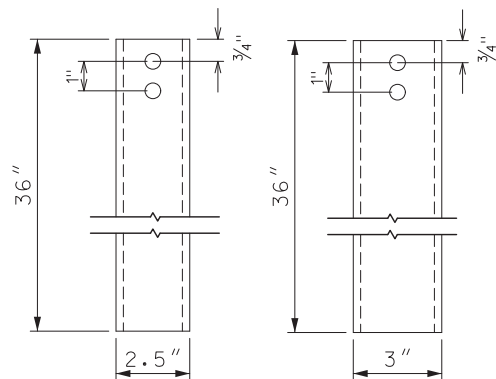
FOR MOUNTING HEIGHT AND OFFSET DETAILS,
SEE SHEET 11.

SPECIAL MOUNTING BASED ON SIGN WIDTH
IN CONJUNCTION WITH ROADWAY TYPE.

<p>MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION</p> <p>105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)</p>	
<p>JONATHAN A. NELSON - CIVIL MO-PE-2008019578</p>	<p>SIGN MOUNTING DETAILS ROUND STRUCTURES</p>
<p>DATE EFFECTIVE: 10/1/2025</p> <p>DATE PREPARED: 7/7/2025</p>	<p>903.03BU</p>
<p>SHEET NO. 7 OF 12</p>	



12-GAUGE ANCHOR
7-GAUGE ANCHOR
ANCHOR BOLT DETAIL



FOR 2" POST FOR 2.5" POST

BOLT HOLE DIAMETER - $1\frac{7}{32}$ "
2 PER SIDE ON ALL 4 SIDES

7-GAUGE ANCHOR
FABRICATION DETAIL

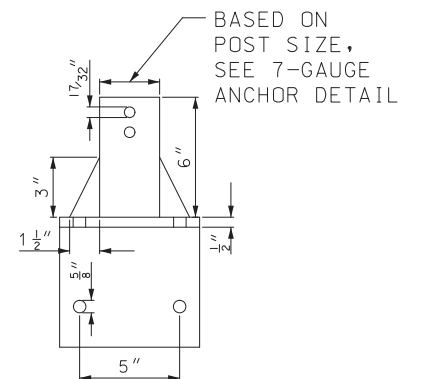
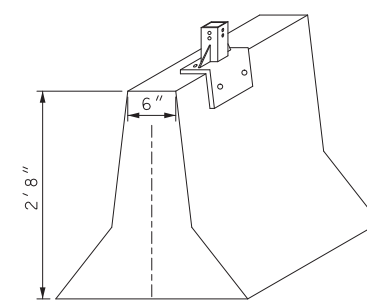
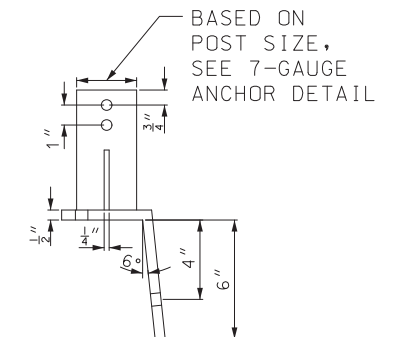
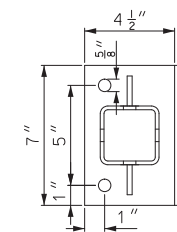
ANCHOR TUBE SHALL BE 7-GAUGE

$1\frac{1}{2}$ " X $4\frac{1}{2}$ " GALVANIZED MECHANICAL
FASTENERS SHALL BE USED TO ATTACH
ANCHOR TO BARRIER WALL

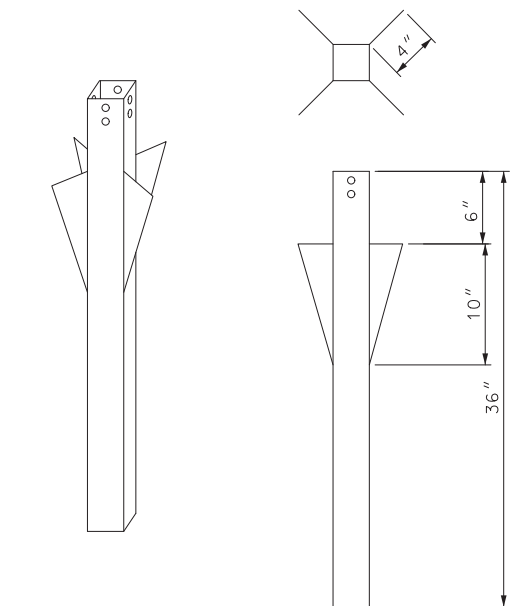
SHOULDER BOLTS SHALL BE USED
TO ATTACH PSST POST TO ANCHOR
(SEE ANCHOR BOLT DETAIL)

ANCHOR SHALL BE HOT DIPPED GALVANIZED
AFTER FABRICATION PER SECTION 1080

FURNISHING AND INSTALLATION
OF BARRIER WALL POST ANCHOR
FOR PSST SHALL BE PAID PER
EACH AS CONCRETE POST ANCHOR

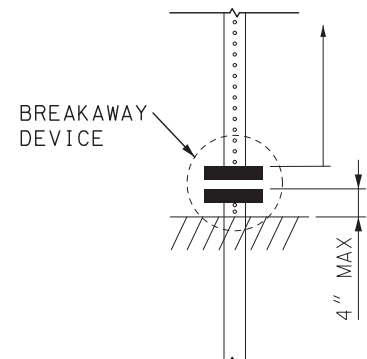


BARRIER WALL MOUNTING DETAIL



12-GAUGE (NOT SHOWN) OR 7-GAUGE

OMNIDIRECTIONAL/STABILIZED
DRIVEN ANCHOR DETAIL

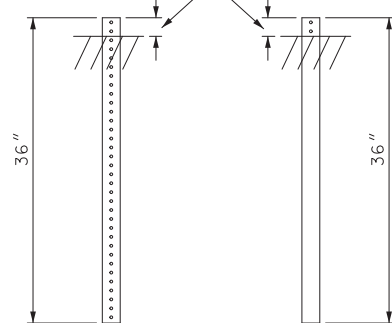


2.5" + 2.25" POST COMPRISED OF
2.5" PSST WITH 6-FT INSERT OF
2.25" PSST THAT RUNS UP FROM
THE BREAKAWAY DEVICE

THE BREAKAWAY DEVICE PORTION
FIXED TO THE GROUND ANCHOR
SHALL BE NO HIGHER THAN
4" ABOVE THE FINISHED GRADE

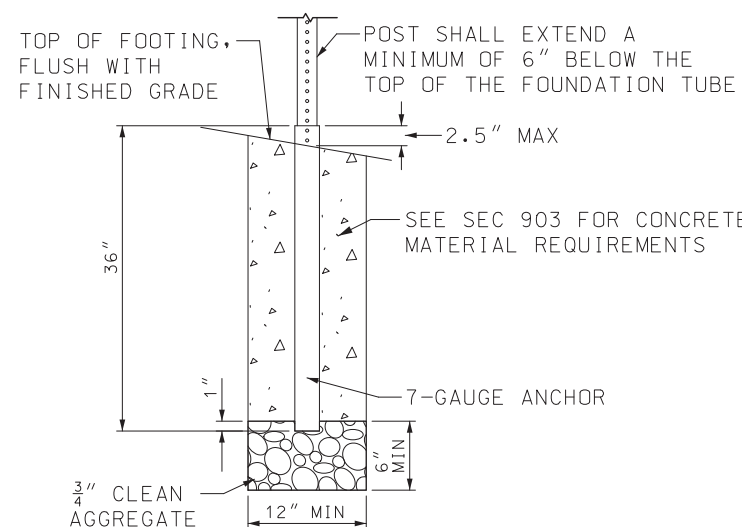
BREAKAWAY AND 2.5" + 2.25" POST DETAIL

THE ANCHOR SHOULD BE A MAXIMUM
OF 2.5" ABOVE THE GROUND LEVEL

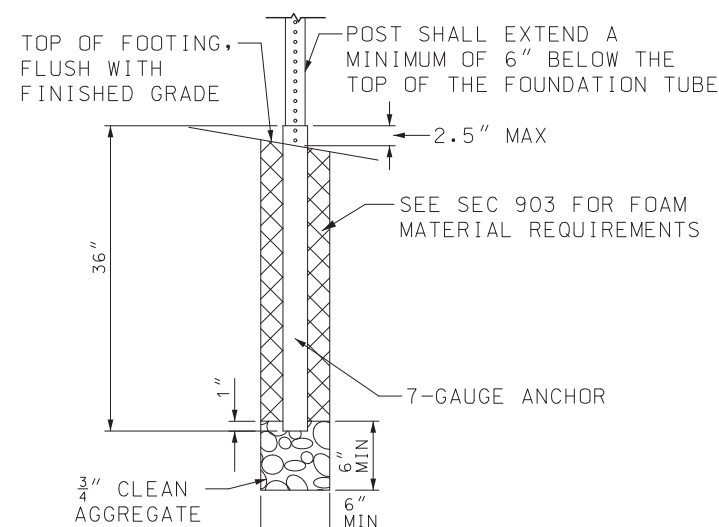


12-GAUGE 7-GAUGE

DRIVEN ANCHOR
INSTALLATION DETAIL



CONCRETE FOOTING DETAIL





POLYURETHANE FOAM FOOTING DETAIL

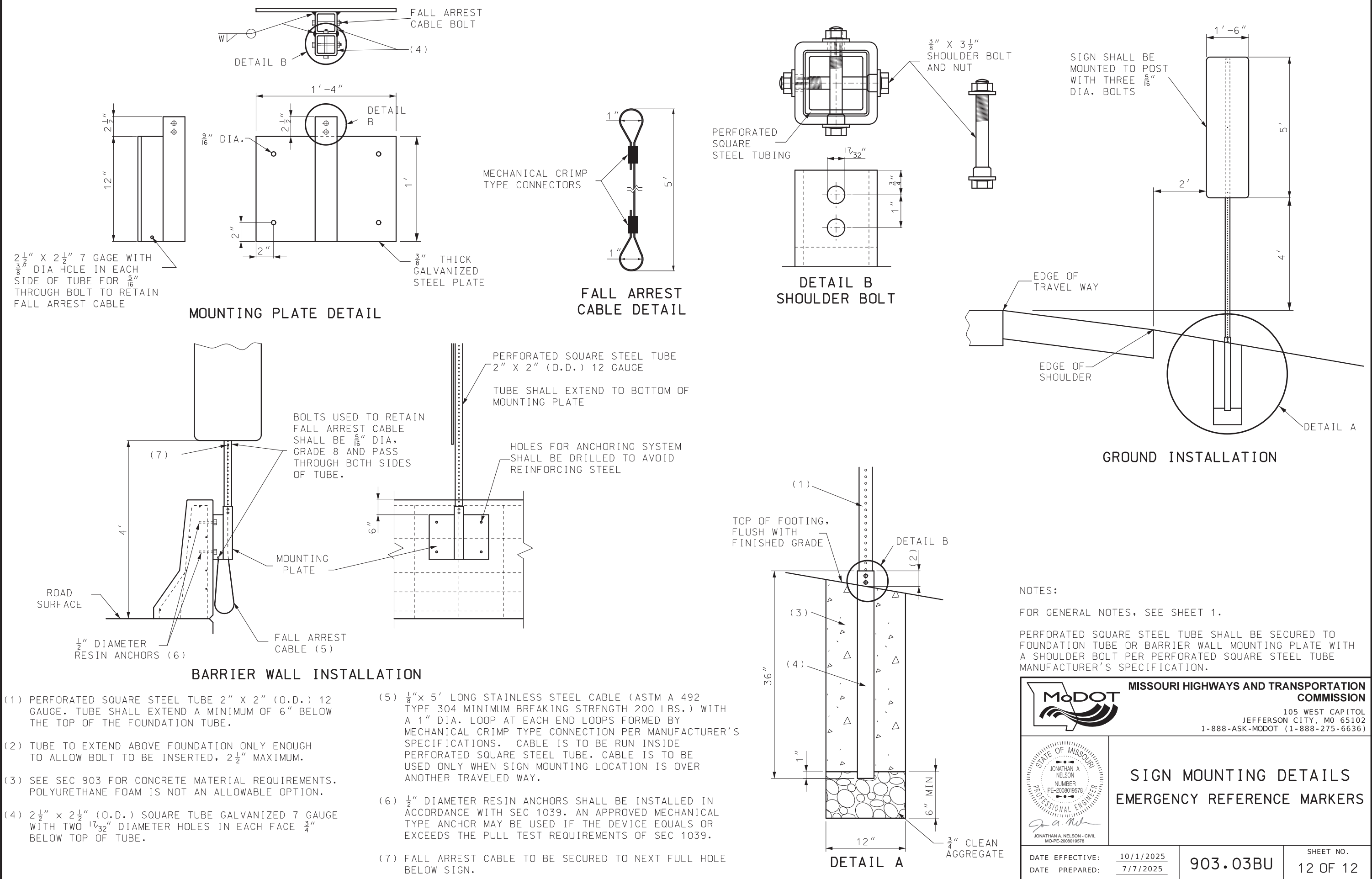
NOTES:


FOR GENERAL NOTES, SEE SHEET 1.

FOR MOUNTING HEIGHT AND OFFSET DETAILS,
SEE SHEET 11.

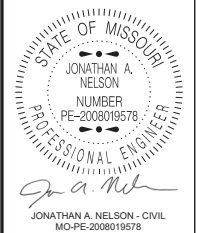
ALL BREAKAWAY DEVICES USED ON AN INSTALLATION
SHALL BE CERTIFIED NCHRP 350 COMPLIANT.

 MISSOURI HIGHWAYS AND TRANSPORTATION COMMISSION 105 WEST CAPITOL JEFFERSON CITY, MO 65102 1-888-ASK-MODOT (1-888-275-6636)		
 POST INSTALLATION DETAILS PERFORATED SQUARE STEEL TUBE (PSST)		
DATE EFFECTIVE: 10/1/2025 DATE PREPARED: 7/7/2025	903.03BU	SHEET NO. 8 OF 12





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



**SIGN MOUNTING DETAILS
EMERGENCY REFERENCE MARKERS**

DATE EFFECTIVE: 10/1/2025
DATE PREPARED: 7/7/2025

903.03BU

SHEET NO.
12 OF 12