

## Proposed Revisions to the MDT Detailed Drawings June 2025 Edition

Detailed Drawing No.	Detailed Drawing Title	Remarks
403-00	CRACK SEALING	New drawing.
607-01	MODIFIED FARM FENCE	New drawing, replaces WILDLIFE FRIENDLY FENCE.
618-21	DIVIDED FOUR-LANE WORK AREAS	Drawing No. change only (formerly 618-24).
618-22	DIVIDED FOUR-LANE EQUIPMENT ENTRANCE	Drawing No. change only (formerly 618-27).
618-23	DIVIDED FOUR-LANE MEDIAN CROSSING	Drawing No. change only (formerly 618-28).
618-24	DIVIDED FOUR-LANE SINGLE LANE CLOSURE LANE SHIFT	Drawing No. change only (formerly 618-33).
618-25	DIVIDED FOUR-LANE LANE SHIFT	New drawing.
618-26	DIVIDED FOUR-LANE SHOULDER MESSAGE SIGN	New drawing.
618-27	TEMPORARY FOUR-LANE TO TWO-LANE MEDIAN CROSSOVER	Drawing No. change only (formerly 618-30).
618-28	TEMPORARY TWO-LANE TO FOUR-LANE MEDIAN CROSSOVER	Drawing No. change only (formerly 618-32).
618-29	TEMPORARY ENTRANCE RAMP MEDIAN CROSSOVER	Drawing No. change (formerly 618-21). Ramp warning sign series revised to add R2-15, R2-1, W3-2, & R1-2. Channelizing Device spacing reduced in merge area.
618-30	TEMPORARY EXIT RAMP MEDIAN CROSSOVER	Drawing No. change only (formerly 618-22).
618-31	DIVIDED FOUR-LANE RAMP MERGE	New drawing.
618-32	DIVIDED FOUR-LANE EXIT RAMP CLOSURE	New drawing.
618-40	SHORT DURATION OR SHORT-TERM STATIONARY CREW SIGNING	Drawing No. change only (formerly 618-34).
619-10	SHEET ALUMINUM OVERLAY	Revised to remove references to plywood sheeting.
619-34	DELINEATOR DETAILS	Revised delineator legend to show Type I and Type II.
619-46	AUTHORIZED VEHICLE CROSSOVER DESIGNATOR	New drawing.

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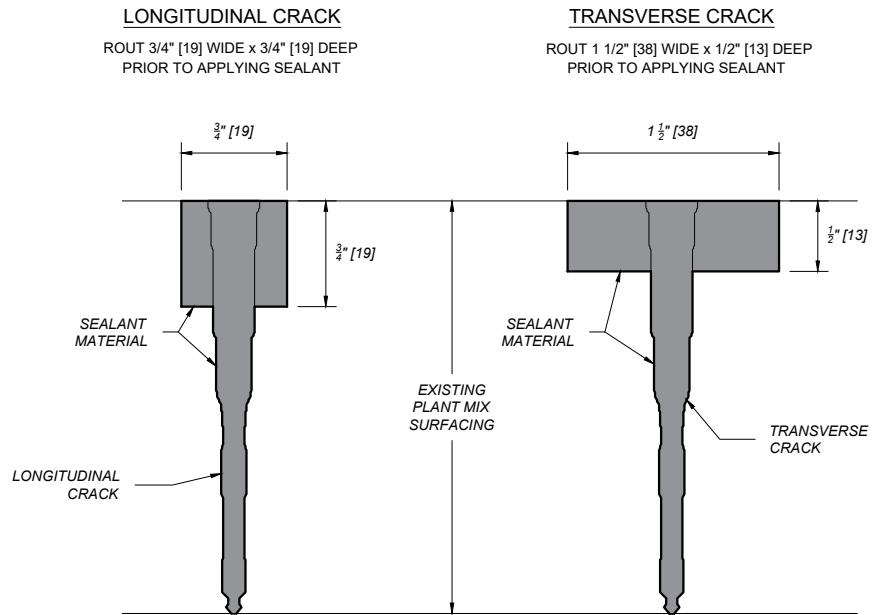
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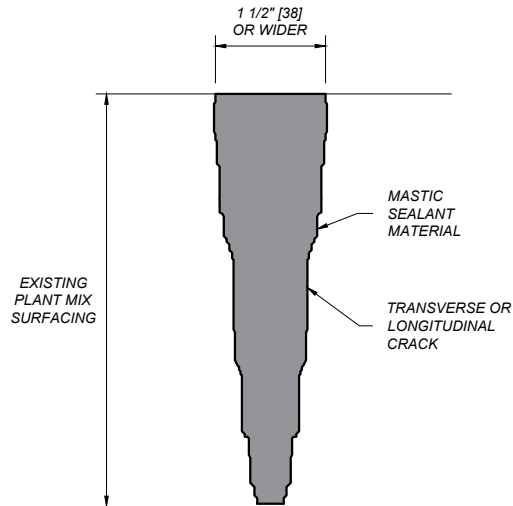
**SECTION 623: MAILBOXES**

**CRACKS 1/8" [3] TO 1 1/2" [38] WIDE**




**CRACKS 1 1/2" [38] OR WIDER**

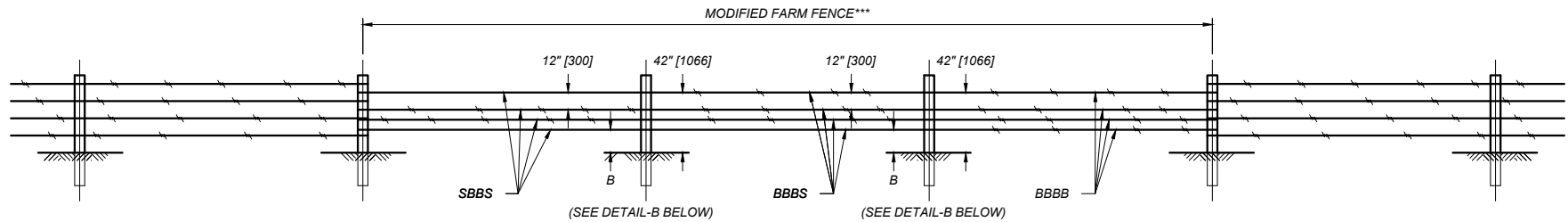
MASTIC REQUIRED  
LEAVE EXISTING CRACK SEAL IN PLACE



UNITS SHOWN IN BRACKETS [ ] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.

--REVISED--

<b>DETAILED DRAWINGS</b>	
REFERENCE STANDARD SPEC. SECTION 403, 707	DWG. NO. 403-00
<b>CRACK SEALING</b>	
EFFECTIVE: JUN 26, 2025	
 <b>MONTANA</b> Department of Transportation	
3/19/2025 10:10 AM	STDDRD403000.DWG



DETAIL-A\*\*\*

WIRE SPACING DETAIL***					
MODIFIED FARM FENCE TYPE 1 & 4		MODIFIED FARM FENCE TYPE 2 & 5		MODIFIED FARM FENCE TYPE 3 & 6	
42" [1066] FENCE HEIGHT		42" [1066] FENCE HEIGHT		42" [1066] FENCE HEIGHT	
TYPE 1: MFF4-SBBS-18	TYPE 4: MFF4-SBBS-16	TYPE 2: MFF4-3BS-18	TYPE 5: MFF4-3BS-16	TYPE 3: MFF4-4B-18	TYPE 6: MFF4-4B-16

◦ DENOTES STAPLE AND/OR TIE LOCATIONS

DETAIL-B\*\*\*

WIRE SPACING***						
TYPE	1	2	3	4	5	6
A*	6" [150]	6" [150]	6" [150]	7" [180]	7" [180]	7" [180]
B**	18" [450]	18" [450]	18" [450]	16" [400]	16" [400]	16" [400]

\* SPACING DISTANCE BETWEEN MIDDLE WIRES  
 \*\* DESIGNATES THE HEIGHT OF THE BOTTOM WIRE OFF THE GROUND  
 \*\*\* COORDINATE ANY LANDOWNER REQUESTED MODIFICATIONS WITH THE MDT DISTRICT BIOLOGIST

NOTES:

- ① WOOD OR METAL POSTS MAY BE USED.
- ② SEE DTL. DWG. NO. 607-05, 607-10, AND 607-15 FOR ADDITIONAL FENCING DETAILS.

UNITS SHOWN IN BRACKETS [ ] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.

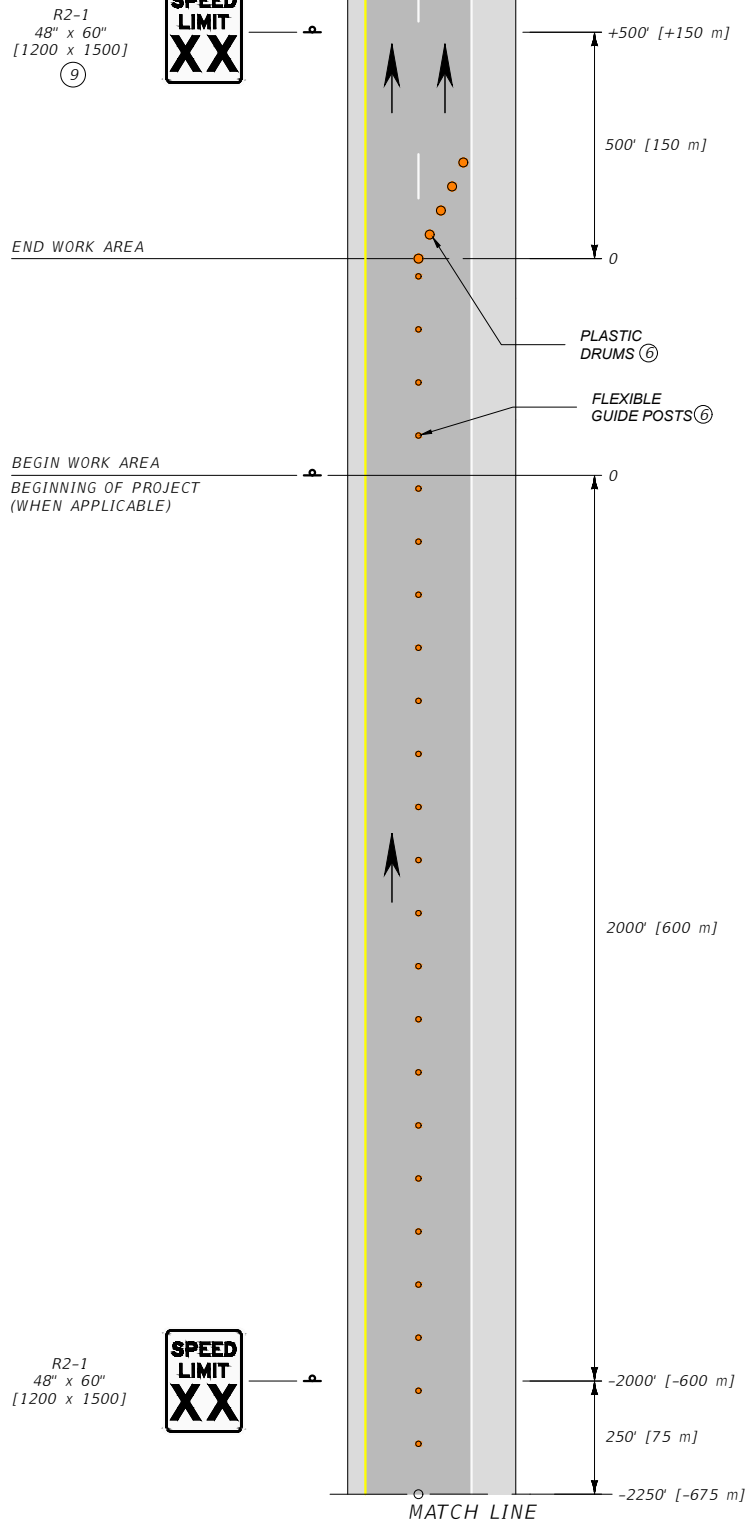
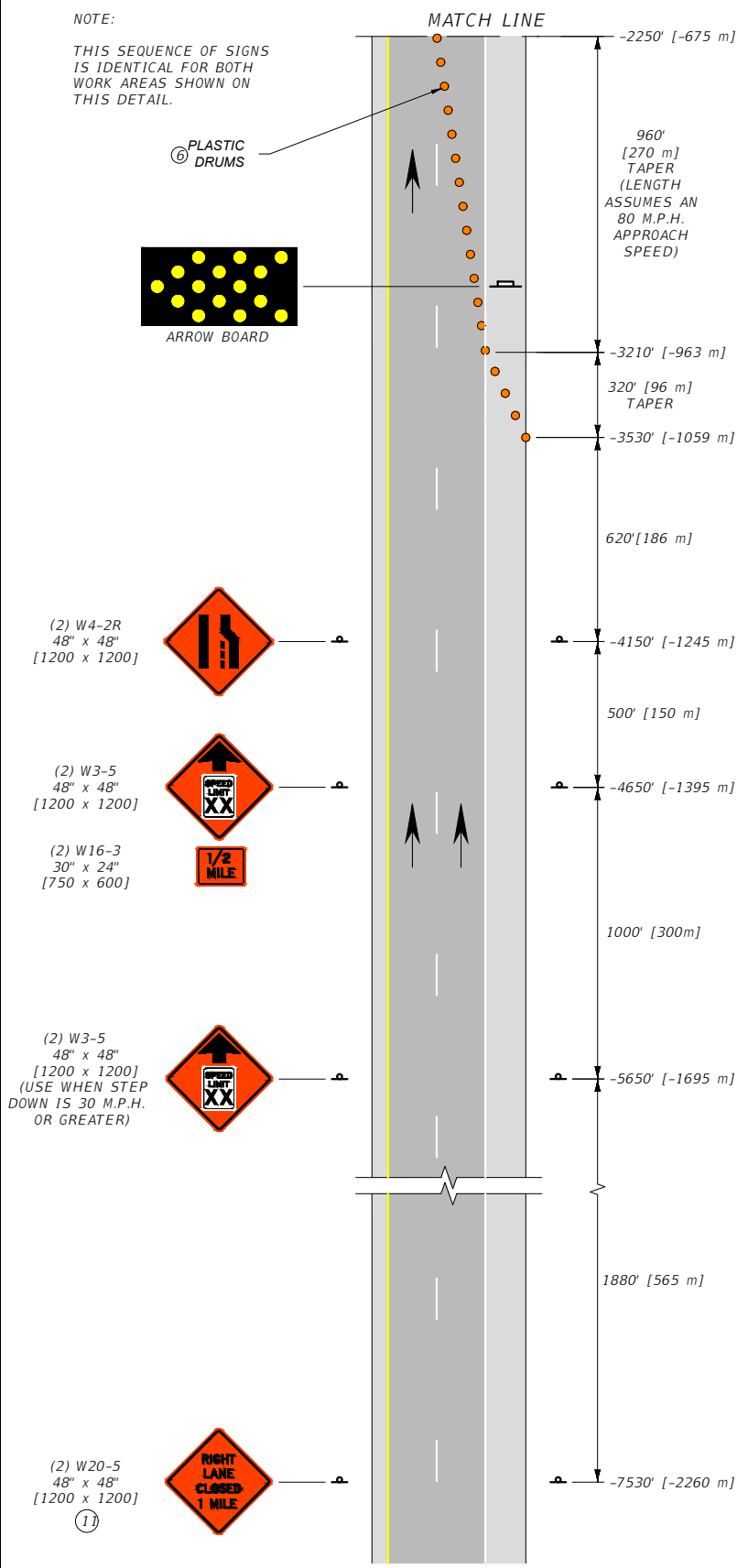
--REVISED--

<b>DETAILED DRAWINGS</b>	
REFERENCE STANDARD SPEC. SECTION 607	DWG. NO. 607-01
<b>MODIFIED FARM FENCE</b>	
EFFECTIVE: JUN 26, 2025	
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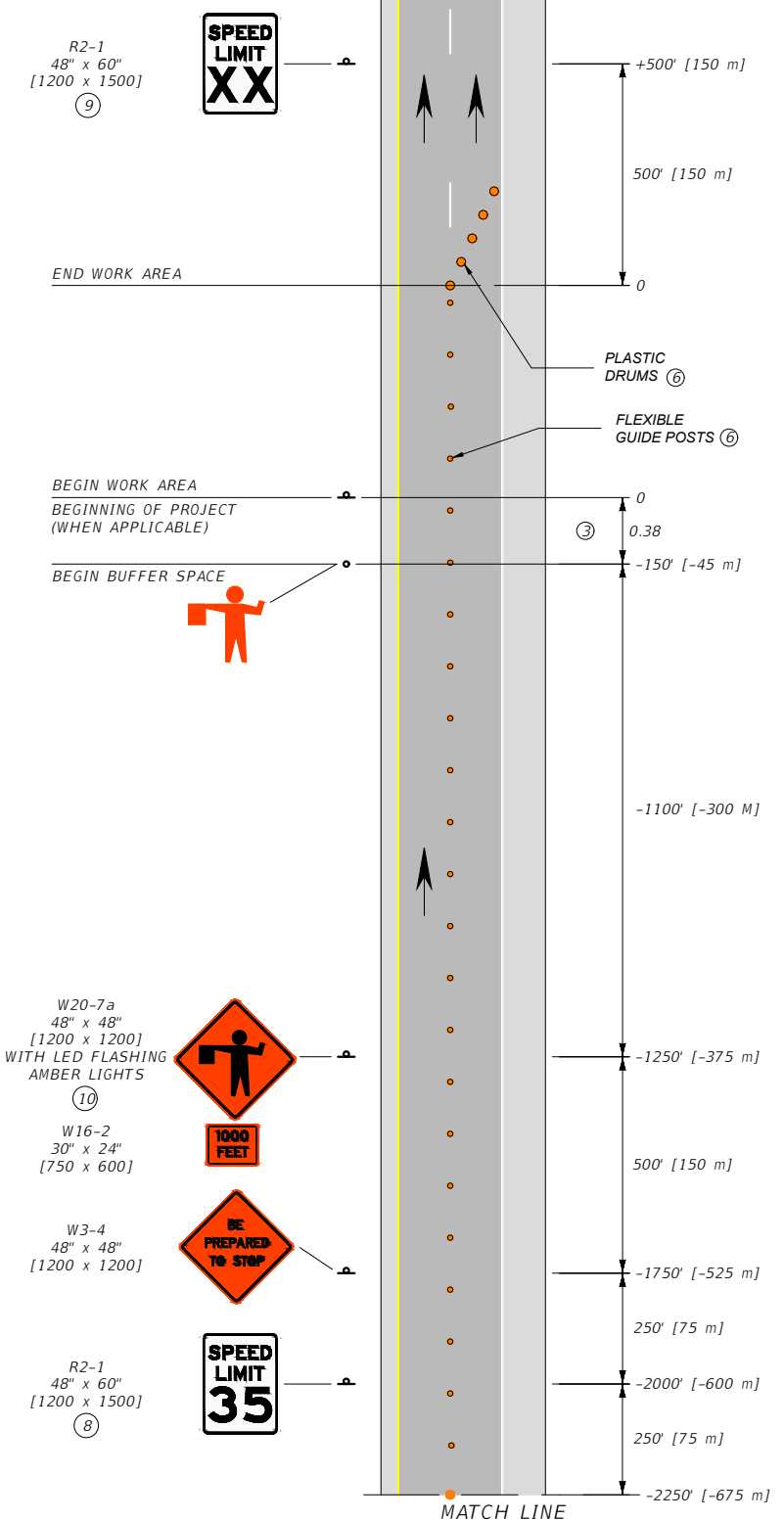


NOTE:

THIS SEQUENCE OF SIGNS IS IDENTICAL FOR BOTH WORK AREAS SHOWN ON THIS DETAIL.



WORK AREA WITH NO FLAGGER



WORK AREA WITH FLAGGER

NOTES:

- THESE SIGN LAYOUTS ALSO USED IN CONJUNCTION WITH THE PERMANENT LAYOUT ILLUSTRATED ON DTL DWG. 618-20 FOR WORK AREAS LOCATED AT THE BEGIN AND END OF THE WORK ZONES.
  - INCLUDE REGULATORY SIGNING ONLY IF THERE IS REASON TO RESTRICT SPEED WITHIN THE WORK ZONE. MODIFY REGULATORY SIGNS TO MATCH ADJACENT REGULATIONS.
  - THE BUFFER SPACE MAY BE INCREASED FOR DOWNGRADES AND OTHER CONDITIONS THAT AFFECT STOPPING DISTANCE.
  - XX = SPEED DETERMINED BY THE PROJECT MANAGER.
  - PROVIDE A SECOND FLAGGER WHEN REQUIRED BY STANDARD SPECIFICATIONS, SECTION 618.
  - SPACE FLEXIBLE GUIDE POSTS ON TANGENTS AT INTERVALS IN FEET [METERS] OF NO MORE THAN TWO [0.6] TIMES THE SPEED LIMIT IN M.P.H. SPACE PLASTIC DRUMS IN ALL TAPER SECTIONS AT INTERVALS IN FEET [METERS] OF NO MORE THAN ONE [0.3] TIMES THE SPEED LIMIT IN M.P.H. FOR SPEED LIMITS LESS THAN 35 M.P.H., SPACE CHANNELIZING DEVICES AS DIRECTED BY THE PROJECT MANAGER.
  - WHEN PORTABLE SIGNS ARE USED, PLACE AS DIRECTED BY THE PROJECT MANAGER.
  - IF FLAGGER IS MORE THAN ONE MILE [1.6 km] FROM THE LANE CLOSURE, INCLUDE W3-5 SIGNS, AS REQUIRED.
  - POST THE SPEED LIMIT APPROPRIATE FOR ALL VEHICLES FOR THE REMAINDER OF THE WORK ZONE BEFORE RESUMING TO NORMAL POSTED SPEED LIMITS AT THE END OF THE WORK ZONE.
  - AMBER LED FLASHERS MUST MEET STANDARD SPECIFICATION 715 AND DTL DWG. 618-01 REQUIREMENTS.
  - POST THE W20-5 AFTER THE W20-1 OR G20-1 AND THE R2-15 IF THE MERGING TAPER OCCURS AT PROJECT BEGINNING.
- \* DENOTES SIGNS UNIQUE TO MONTANA.

UNITS SHOWN IN BRACKETS [ ] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.

**DETAILED DRAWINGS**

REFERENCE STANDARD SPEC. SECTION 618, 715

DWG. NO. 618-21

**DIVIDED FOUR-LANE WORK AREAS**

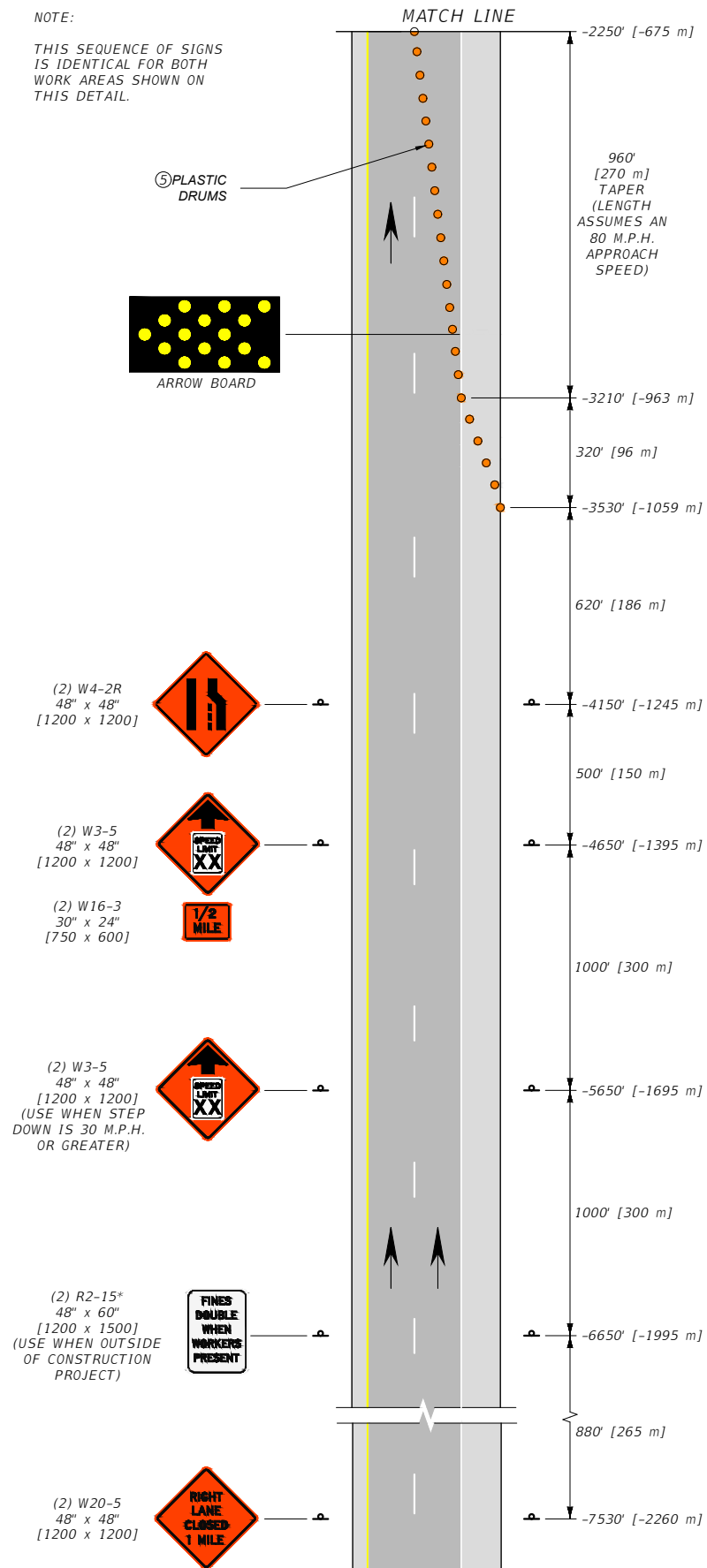
EFFECTIVE JAN 23, 2020

--REVISED--  
JUN 27, 2024  
JUN 26, 2025



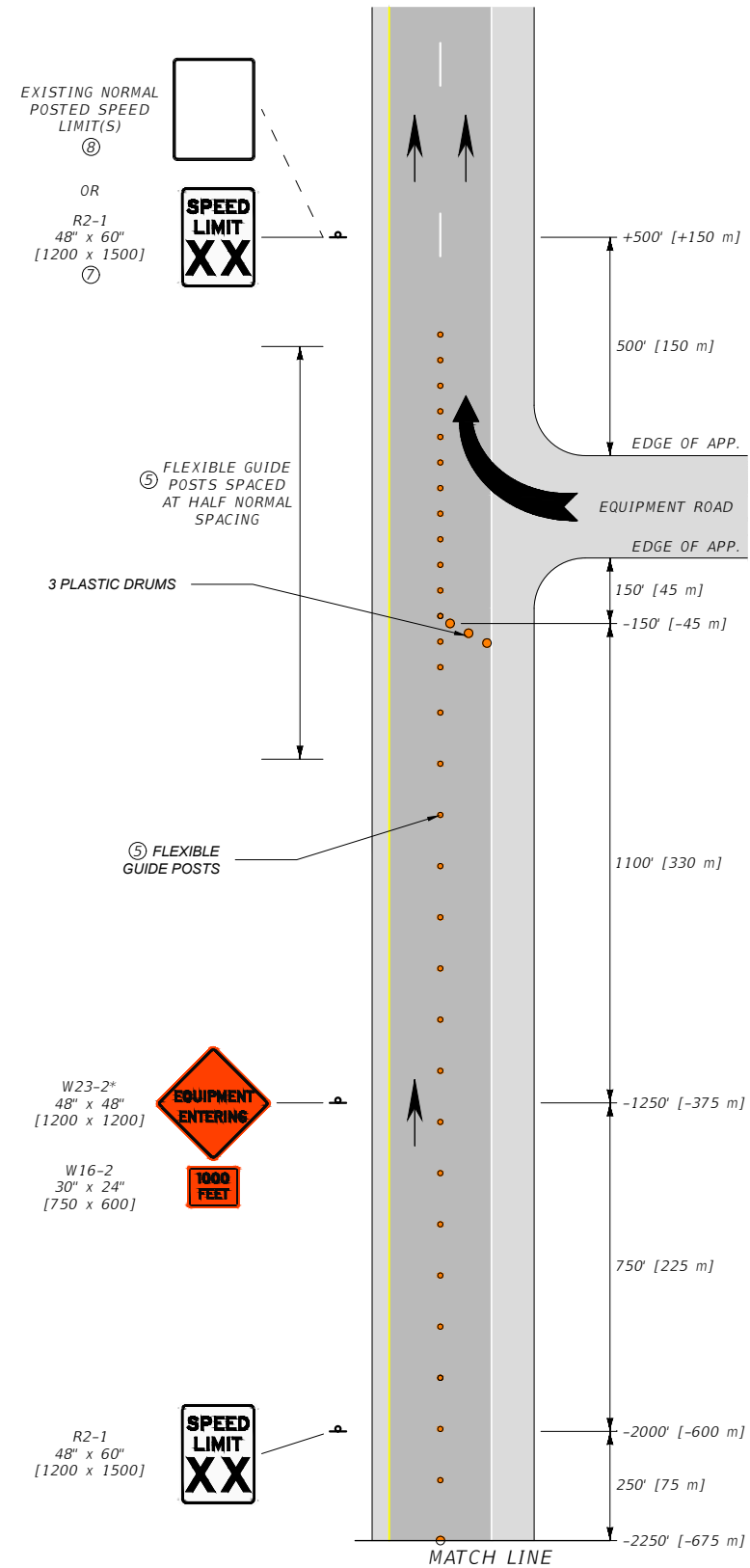
NOTE:

THIS SEQUENCE OF SIGNS IS IDENTICAL FOR BOTH WORK AREAS SHOWN ON THIS DETAIL.



EXISTING NORMAL POSTED SPEED LIMIT(S)

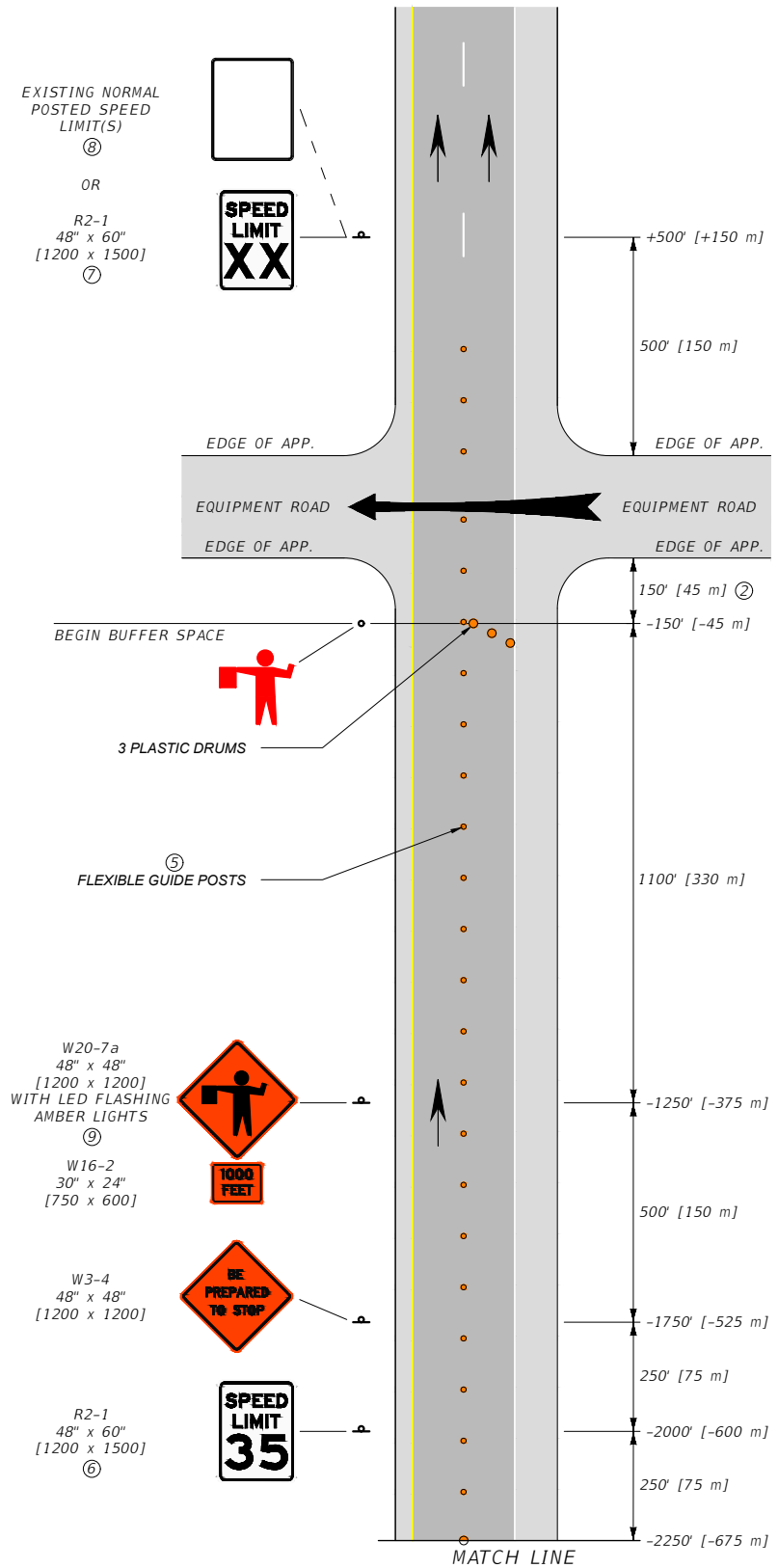
OR R2-1 48" x 60" [1200 x 1500]



EQUIPMENT ENTRANCE WITH NO FLAGGER

EXISTING NORMAL POSTED SPEED LIMIT(S)

OR R2-1 48" x 60" [1200 x 1500]



EQUIPMENT ENTRANCE WITH FLAGGER

NOTES:

- ① INCLUDE SPEED LIMIT SIGNING ONLY IF SPEED MUST BE RESTRICTED WITHIN THE WORK ZONE. REMOVE OR COVER REGULATORY SIGNS TO MATCH ADJACENT REGULATIONS.
  - ② THE BUFFER SPACE MAY BE INCREASED FOR DOWNGRADES AND OTHER CONDITIONS AFFECTING STOPPING DISTANCE.
  - ③ XX = SPEED DETERMINED BY THE PROJECT MANAGER.
  - ④ WHEN THIS OCCURS OUTSIDE A CONSTRUCTION PROJECT, INCLUDE THE W20-1 AND R2-15\* SIGNS.
  - ⑤ SPACE FLEXIBLE GUIDE POSTS ON TANGENTS AT INTERVALS IN FEET [METERS] OF NO MORE THAN TWO [0.6] TIMES THE SPEED LIMIT IN M.P.H. SPACE PLASTIC DRUMS IN ALL TAPER SECTIONS AT INTERVALS IN FEET [METERS] OF NO MORE THAN ONE [0.3] TIMES THE SPEED LIMIT IN M.P.H. FOR SPEED LIMITS LESS THAN 35 M.P.H., SPACE CHANNELIZING DEVICES AS DIRECTED BY THE PROJECT MANAGER.
  - ⑥ IF FLAGGER IS MORE THAN ONE MILE [1.6 km] FROM THE LANE CLOSURE, INCLUDE W3-5 SIGNS, AS REQUIRED.
  - ⑦ POST THE SPEED LIMIT APPROPRIATE FOR ALL VEHICLES FOR THE REMAINDER OF THE WORK ZONE BEFORE RESUMING TO NORMAL POSTED SPEED LIMITS AT THE END OF THE WORK ZONE.
  - ⑧ WHEN OUTSIDE OF A CONSTRUCTION PROJECT, POST THE SPEED LIMIT CONSISTING OF ONE LIMIT WHEN THE NORMAL POSTED SPEED LIMIT FOR ALL VEHICLES IS THE SAME. WHEN CAR AND TRUCK SPEED LIMITS DIFFER, POST BOTH LIMITS ON A SINGLE SIGN.
  - ⑨ AMBER LED FLASHERS MUST MEET STANDARD SPECIFICATION SECTION 715 AND DTL. DWG. 618-01.
  - ⑩ POST THE W20-5 AFTER THE W20-1 OR THE G20-1 AND THE R2-15 IF THE MERGING TAPER OCCURS AT PROJECT BEGINNING.
- \* DENOTES SIGNS UNIQUE TO MONTANA.

UNITS SHOWN IN BRACKETS [ ] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.

DETAILED DRAWINGS	
REFERENCE STANDARD SPEC. SECTION 618, 715	DWG. NO. 618-22

**DIVIDED FOUR-LANE EQUIPMENT ENTRANCE**

EFFECTIVE JAN 23, 2020

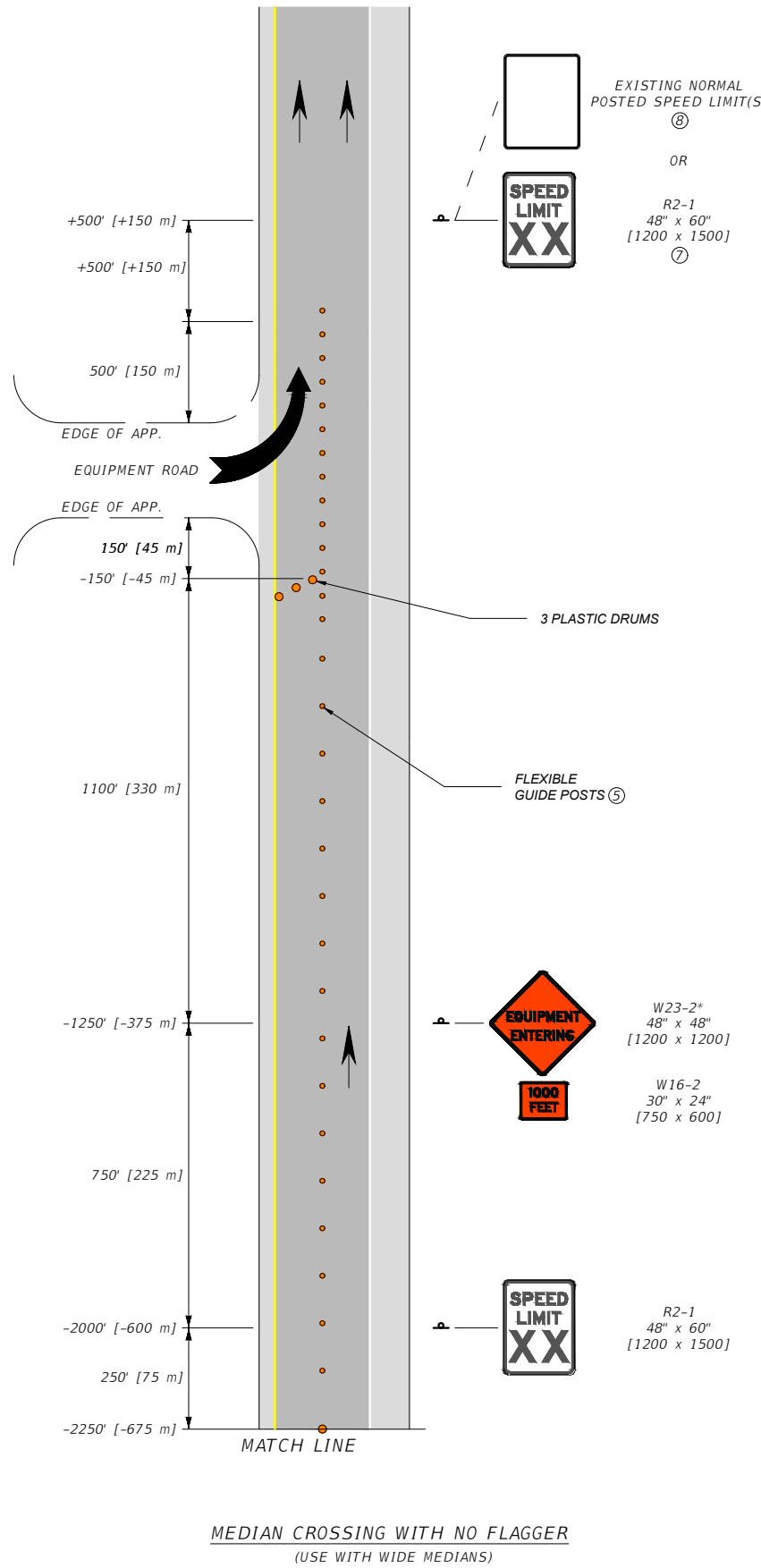
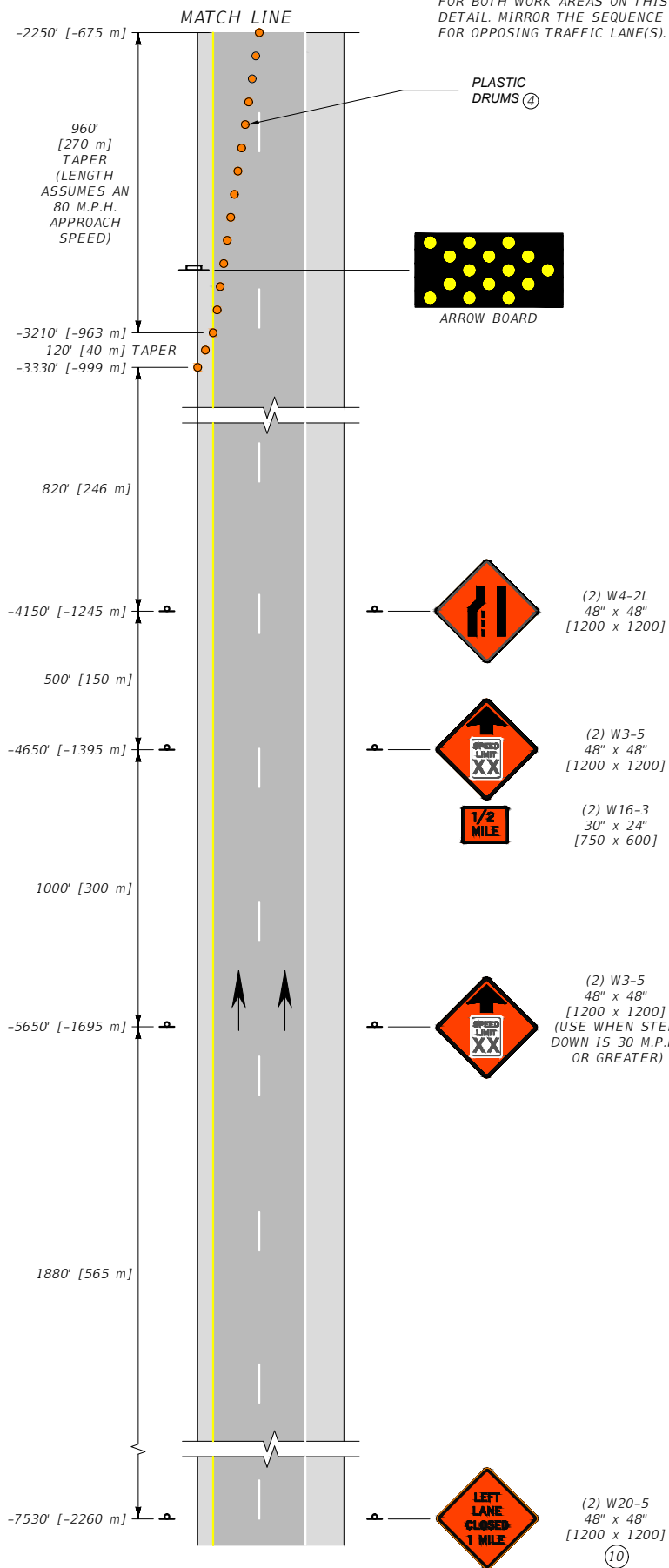
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**MONTANA**  
 Department of Transportation

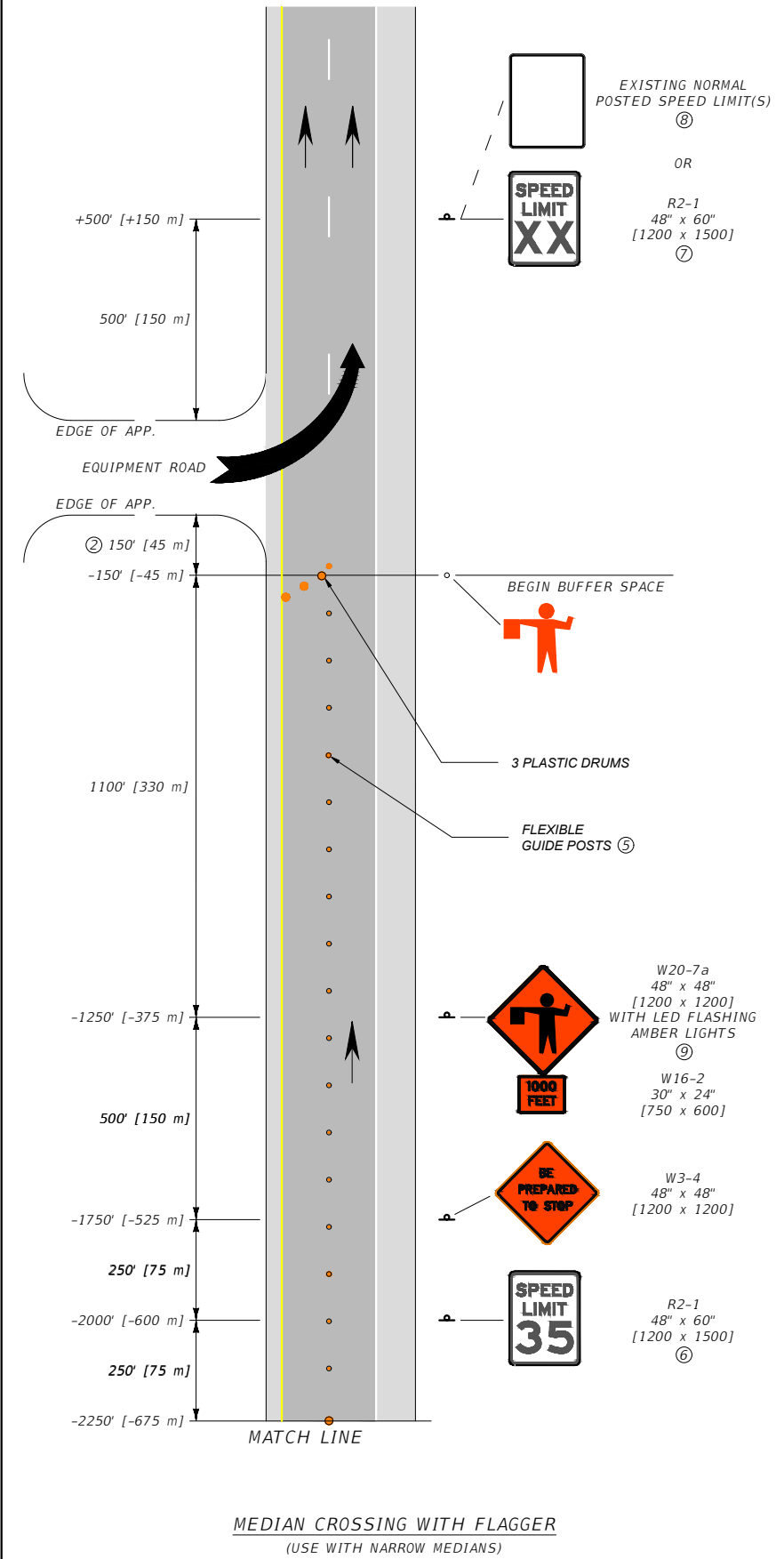
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 JUN 27, 2024  
 JUN 26, 2025

NOTE:

THIS SIGN SEQUENCE IS IDENTICAL FOR BOTH WORK AREAS ON THIS DETAIL. MIRROR THE SEQUENCE FOR OPPOSING TRAFFIC LANE(S).



MEDIAN CROSSING WITH NO FLAGGER  
(USE WITH WIDE MEDIANS)



MEDIAN CROSSING WITH FLAGGER  
(USE WITH NARROW MEDIANS)

- NOTES:
- INCLUDE SPEED LIMIT SIGNING ONLY IF SPEED MUST BE RESTRICTED WITHIN THE WORK ZONE. REMOVE OR COVER REGULATORY SIGNS TO MATCH ADJACENT REGULATIONS.
  - THE BUFFER SPACE MAY BE INCREASED FOR DOWNGRADES AND OTHER CONDITIONS AFFECTING STOPPING DISTANCE.
  - XX = SPEED DETERMINED BY PROJECT MANAGER.
  - WHEN TAPER SECTIONS OCCUR OUTSIDE OF A CONSTRUCTION PROJECT, INCLUDE THE W20-1 AND R2-15\* SIGNS.
  - SPACE FLEXIBLE GUIDE POSTS ON TANGENTS AT INTERVALS IN FEET [METERS] OF NO MORE THAN TWO [0.6] TIMES THE SPEED LIMIT IN M.P.H. SPACE PLASTIC DRUMS IN ALL TAPER SECTIONS AT INTERVALS IN FEET [METERS] OF NO MORE THAN ONE [0.3] TIMES THE SPEED LIMIT IN M.P.H. FOR SPEED LIMITS LESS THAN 35 M.P.H., SPACE CHANNELIZING DEVICES AS DIRECTED BY THE PROJECT MANAGER.
  - IF FLAGGER IS MORE THAN ONE MILE [1.6 km] FROM THE LANE CLOSURE, INCLUDE W3-5 SIGNS, AS REQUIRED.
  - POST THE SPEED LIMIT APPROPRIATE FOR ALL VEHICLES FOR THE REMAINDER OF THE WORK ZONE BEFORE RESUMING TO NORMALSTED POSTED SPEED LIMITS AT THE END OF WORK ZONE.
  - WHEN OUTSIDE OF A CONSTRUCTION PROJECT, POST THE SPEED LIMIT CONSISTING OF ONE LIMIT WHEN THE NORMAL POSTED SPEED LIMIT FOR ALL VEHICLES IS THE SAME. WHEN CAR AND TRUCK SPEED LIMITS DIFFER, POST BOTH LIMITS ON A SINGLE SIGN.
  - AMBER LED FLASHERS MUST MEET STANDARD SPECIFICATION SECTION 715 AND DTL. DWG. 618-01 REQUIREMENTS.
  - POST THE W20-5 AFTER THE W20-1 OR G20-1 AND THE R2-15 IF THE MERGING TAPER OCCURS AT PROJECT BEGINNING.
- \* DENOTES SIGNS UNIQUE TO MONTANA.

UNITS SHOWN IN BRACKETS [ ] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.

**DETAILED DRAWINGS**  
REFERENCE STANDARD SPEC. SECTION 618, 715  
DWG. NO. 618-23

**DIVIDED FOUR-LANE MEDIAN CROSSING**  
EFFECTIVE JAN 23, 2020

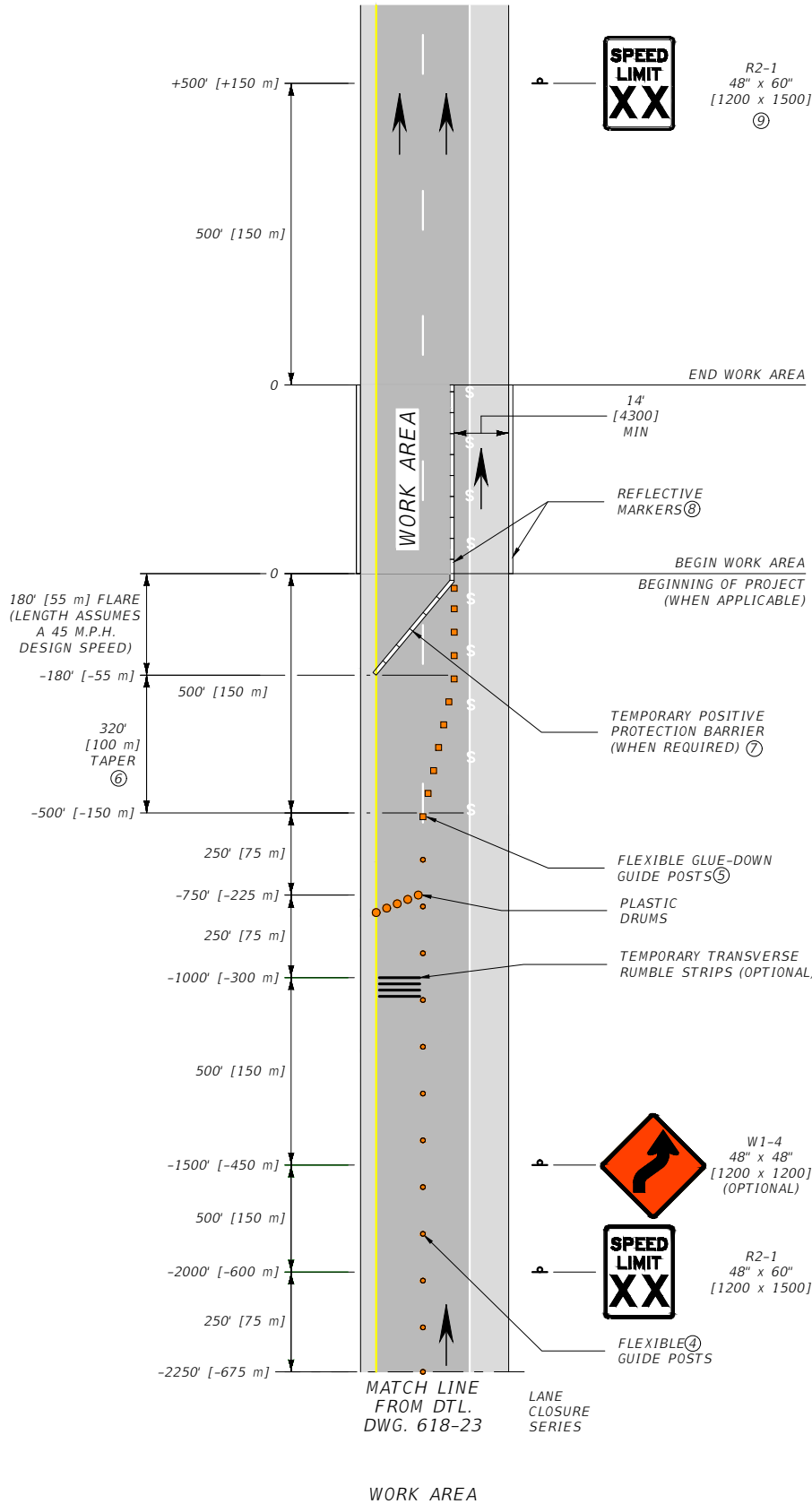
--REVISED--  
JUN 27, 2024  
JUN 26, 2025



NOTES:

- ① USE THESE SIGN LAYOUTS WITH THE LAYOUT ILLUSTRATED ON DTL. DWG. 618-23.
- ② INCLUDE REGULATORY SIGNING ONLY AS REQUIRED. REMOVE OR COVER REGULATORY SIGNS TO MATCH ADJACENT REGULATIONS.
- ③ XX = SPEED DETERMINED BY THE PROJECT MANAGER.
- ④ SPACE CHANNELIZING DEVICES ON TANGENTS AT INTERVALS IN FEET [METERS] OF NO MORE THAN TWO [0.6] TIMES THE SPEED LIMIT IN M.P.H. AND ON ALL TAPER SECTIONS AT INTERVALS IN FEET [METERS] OF NO MORE THAN ONE [0.3] TIMES THE SPEED LIMIT IN M.P.H. FOR SPEED LIMITS LESS THAN 35 M.P.H., SPACE CHANNELIZING DEVICES AS DIRECTED BY THE PROJECT MANAGER.
- ⑤ SPACE FLEXIBLE GLUE-DOWN GUIDE POSTS USED FOR LANE SHIFT TAPER AT INTERVALS IN FEET [METERS] OF M.P.H.
- ⑥ THE LANE SHIFT TAPER LENGTH ASSUMES AN 8' [2400] LANE SHIFT OFFSET AND AN 80 M.P.H. APPROACH SPEED. CONTACT THE PROJECT MANAGER IF CONDITIONS VARY.
- ⑦ TEMPORARY POSITIVE PROTECTION BARRIER CAN TERMINATE AT THE CENTER OF THE CLOSED LANE FOR ACCESS PURPOSES IF AN APPROVED TEMPORARY IMPACT ATTENUATOR IS USED.
- ⑧ PLACE REFLECTIVE MARKERS ALONG THE TOP OF TEMPORARY BARRIER AND ENSURE EXISTING BARRIER REFLECTORS ARE INTACT.
- ⑨ POST THE SPEED LIMIT APPROPRIATE FOR ALL VEHICLES FOR THE REMAINDER OF THE WORK ZONE BEFORE RESUMING TO NORMAL POSTED SPEED LIMITS AT THE END OF THE WORK ZONE.
- ⑩ OBLITERATE CONFLICTING PAVEMENT MARKINGS BEGINNING AT THE SHIFTING TAPER AND CONTINUING THROUGH THE WORK AREA.

\* DENOTES SIGNS UNIQUE TO MONTANA.



LEGEND	
	OBLITERATE CONFLICTING PAVEMENT MARKINGS ⑩
	PLASTIC DRUMS (SEE NOTES FOR SPACING)
	FLEXIBLE GLUE-DOWN GUIDE POSTS (SEE NOTES FOR SPACING)
	FLEXIBLE GUIDE POSTS

UNITS SHOWN IN BRACKETS [ ] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.

<b>DETAILED DRAWINGS</b>	
REFERENCE STANDARD SPEC. SECTION 618	DWG. NO. 618-24
<b>DIVIDED FOUR-LANE SINGLE LANE CLOSURE LANE SHIFT</b>	
EFFECTIVE JAN 23, 2020	

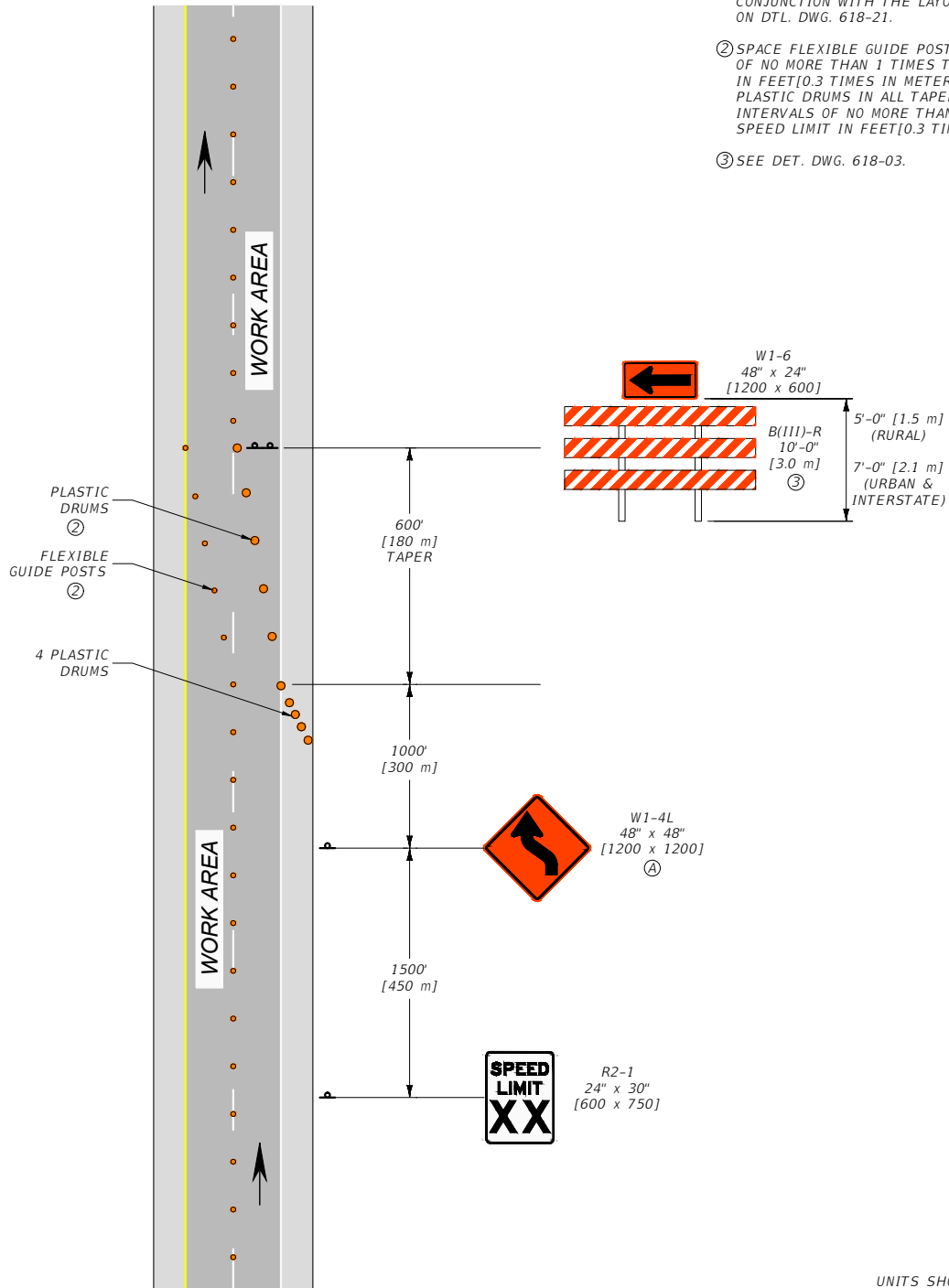
--REVISED--  
 JUN 27, 2024  
 JUN 26, 2025

NOTES:

① THESE SIGN LAYOUTS TO BE USED IN CONJUNCTION WITH THE LAYOUT ILLUSTRATED ON DTL. DWG. 618-21.

② SPACE FLEXIBLE GUIDE POSTS AT INTERVALS OF NO MORE THAN 1 TIMES THE SPEED LIMIT IN FEET (0.3 TIMES IN METERS). SPACE PLASTIC DRUMS IN ALL TAPER SECTIONS AT INTERVALS OF NO MORE THAN 1 TIMES THE SPEED LIMIT IN FEET (0.3 TIMES IN METERS).

③ SEE DET. DWG. 618-03.




UNITS SHOWN IN BRACKETS [ ] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.

**LEGEND**

- - FLEXIBLE GUIDE POSTS
- - PLASTIC DRUMS

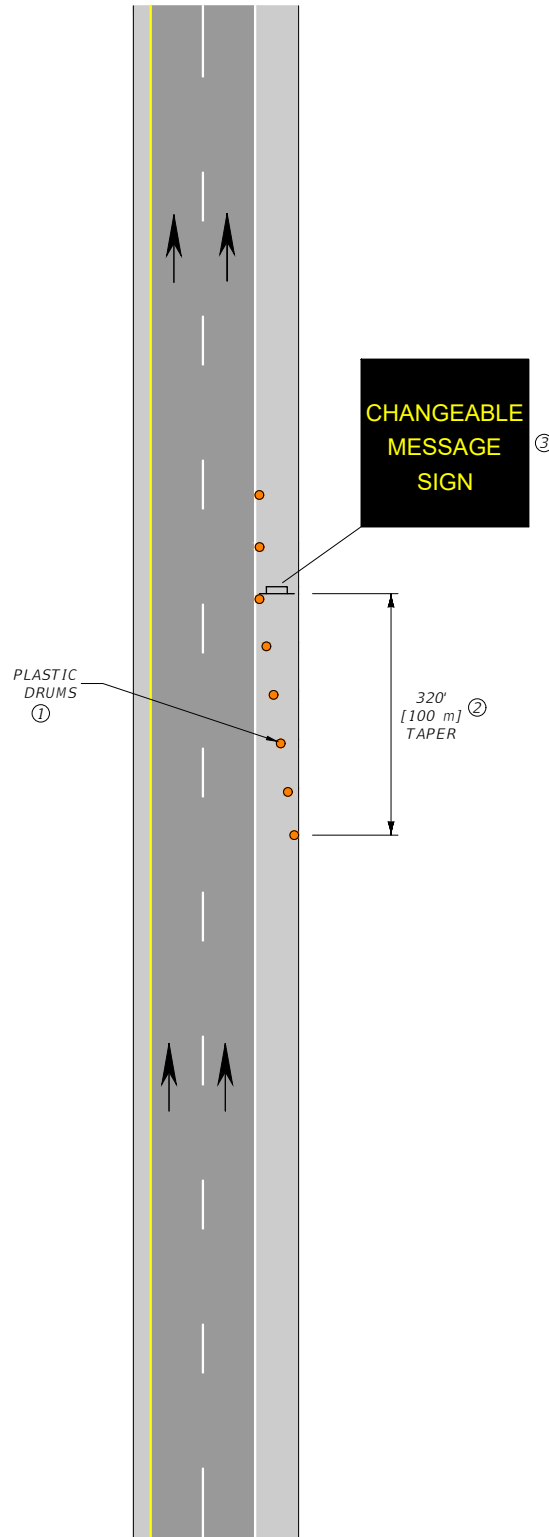
XX - SPEED DETERMINED BY THE PROJECT MANAGER.

<b>DETAILED DRAWINGS</b>	
REFERENCE STANDARD SPEC. SECTION 618	DWG. NO. 618-25
<b>DIVIDED FOUR-LANE LANE SHIFT</b>	
EFFECTIVE JUN 26, 2025	
	
3/19/2025 11:53 AM STDDR618025 - COLOR TEST.DWG	

--REVISED--

NOTES:

- ① SPACE PLASTIC DRUMS AT INTERVALS OF NO MORE THAN 1 TIMES THE SPEED LIMIT IN FEET [0.3 TIMES IN METERS].
- ② DEVICE SPACINGS ARE MAXIMUMS AND CAN BE REDUCED BUT THE TAPER DISTANCE IS A MINIMUM AND CAN BE INCREASED IF CONDITIONS WARRANT.
- ③ CHANGEABLE MESSAGE SIGN MUST BE CAPABLE OF PROVIDING 2 PHASES WITH 3 LINES AND 8 CHARACTERS PER LINE. CHARACTERS MUST BE A MINIMUM OF 18 INCH [450] IN HEIGHT. TWO LANE ROADS WITH SPEEDS LESS THAN 50 M.P.H. REQUIRE A MINIMUM OF 10 INCH [250] CHARACTER HEIGHT.



UNITS SHOWN IN BRACKETS [ ] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.

**DETAILED DRAWINGS**

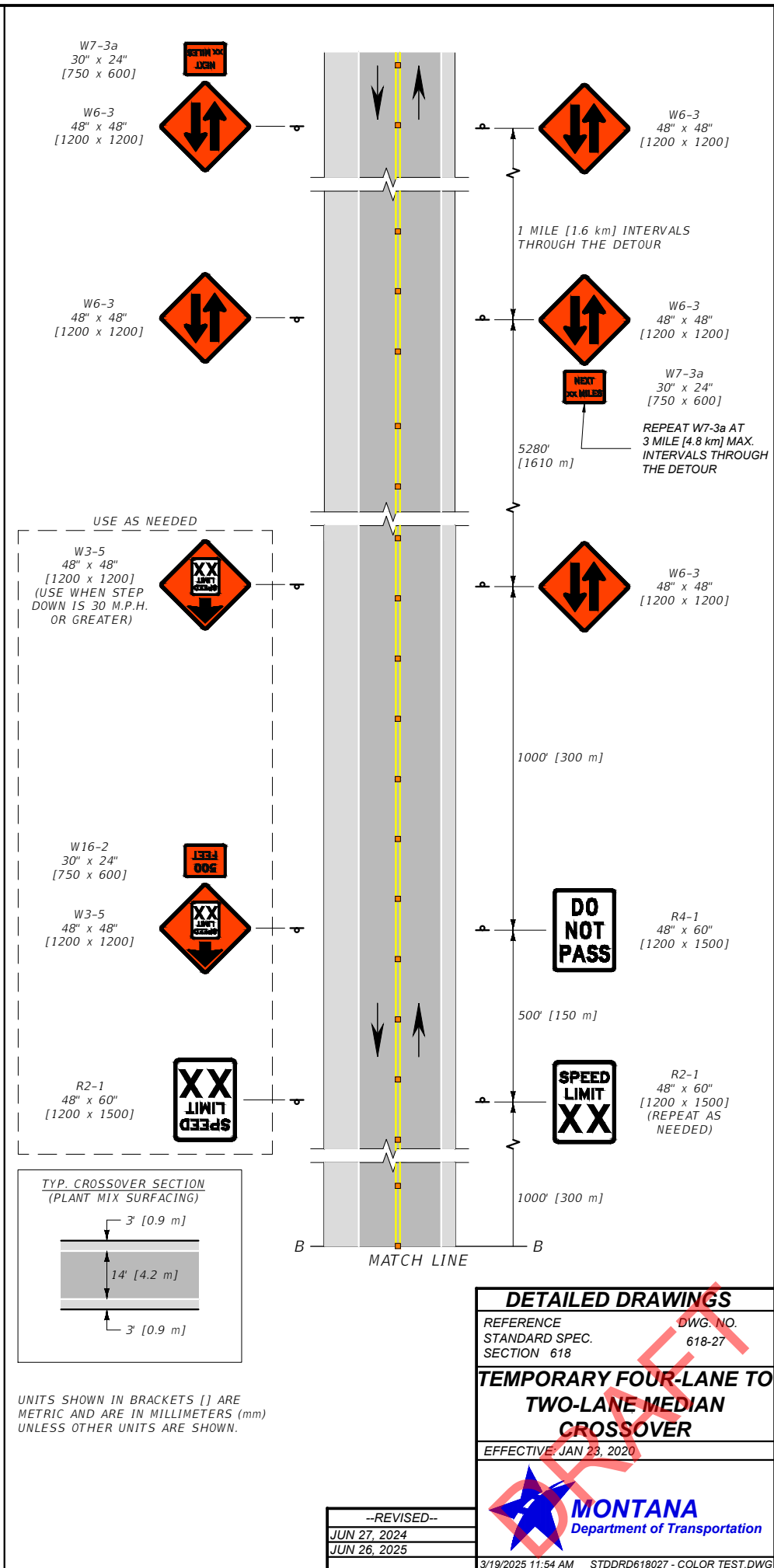
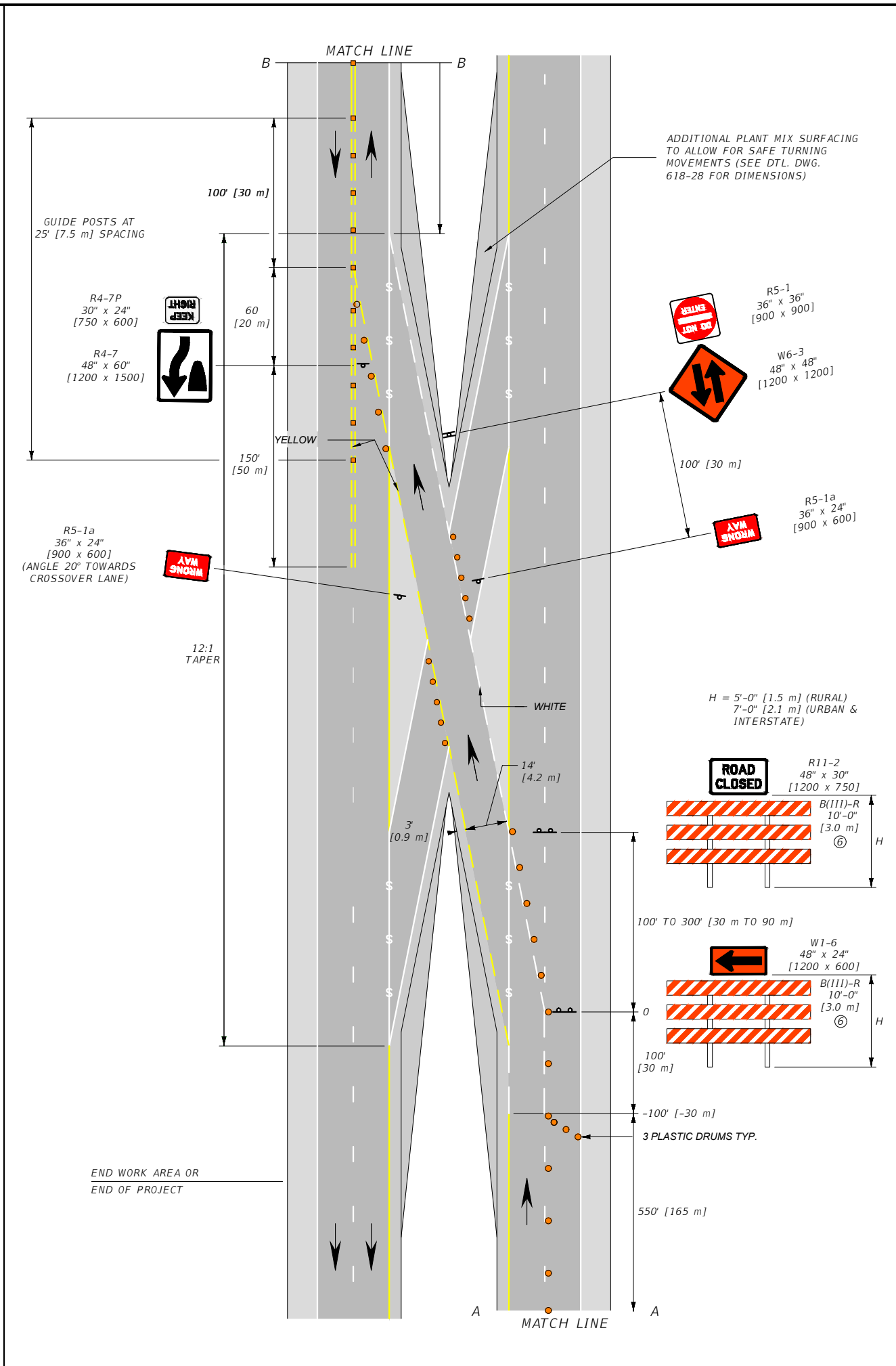
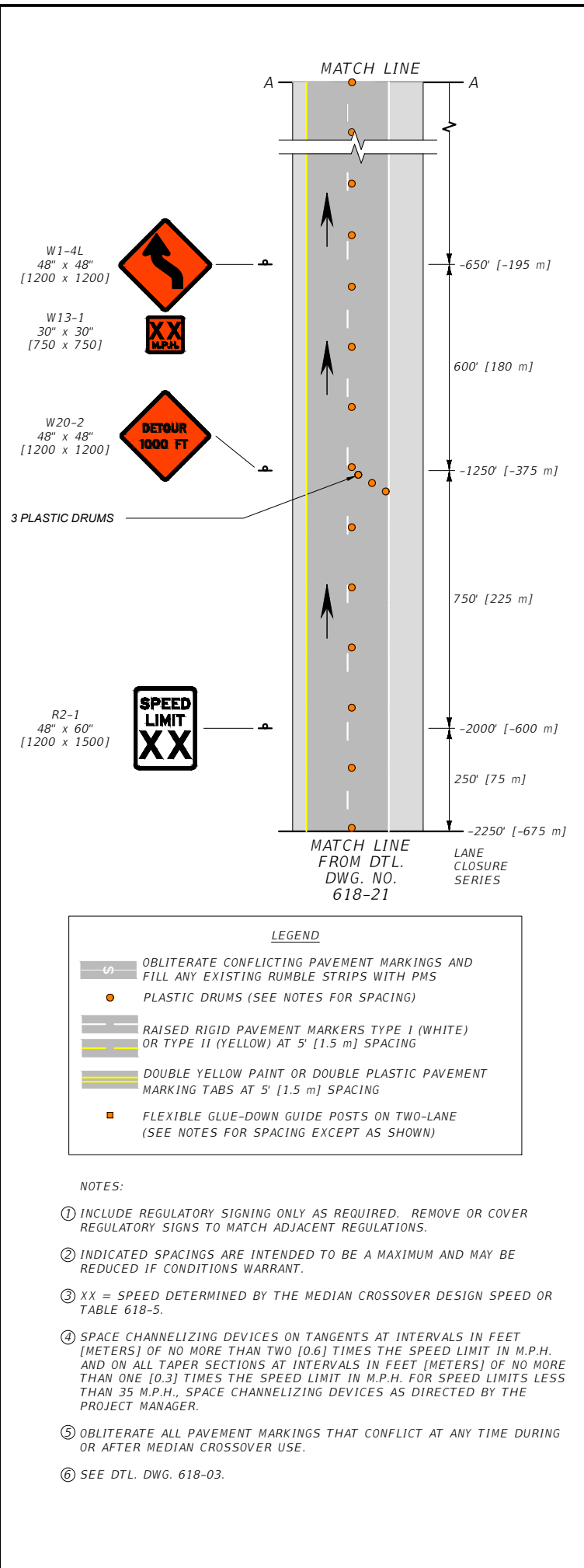
REFERENCE	DWG. NO.
STANDARD SPEC.	618-26
SECTION 618	

**DIVIDED FOUR-LANE SHOULDER MESSAGE SIGN**

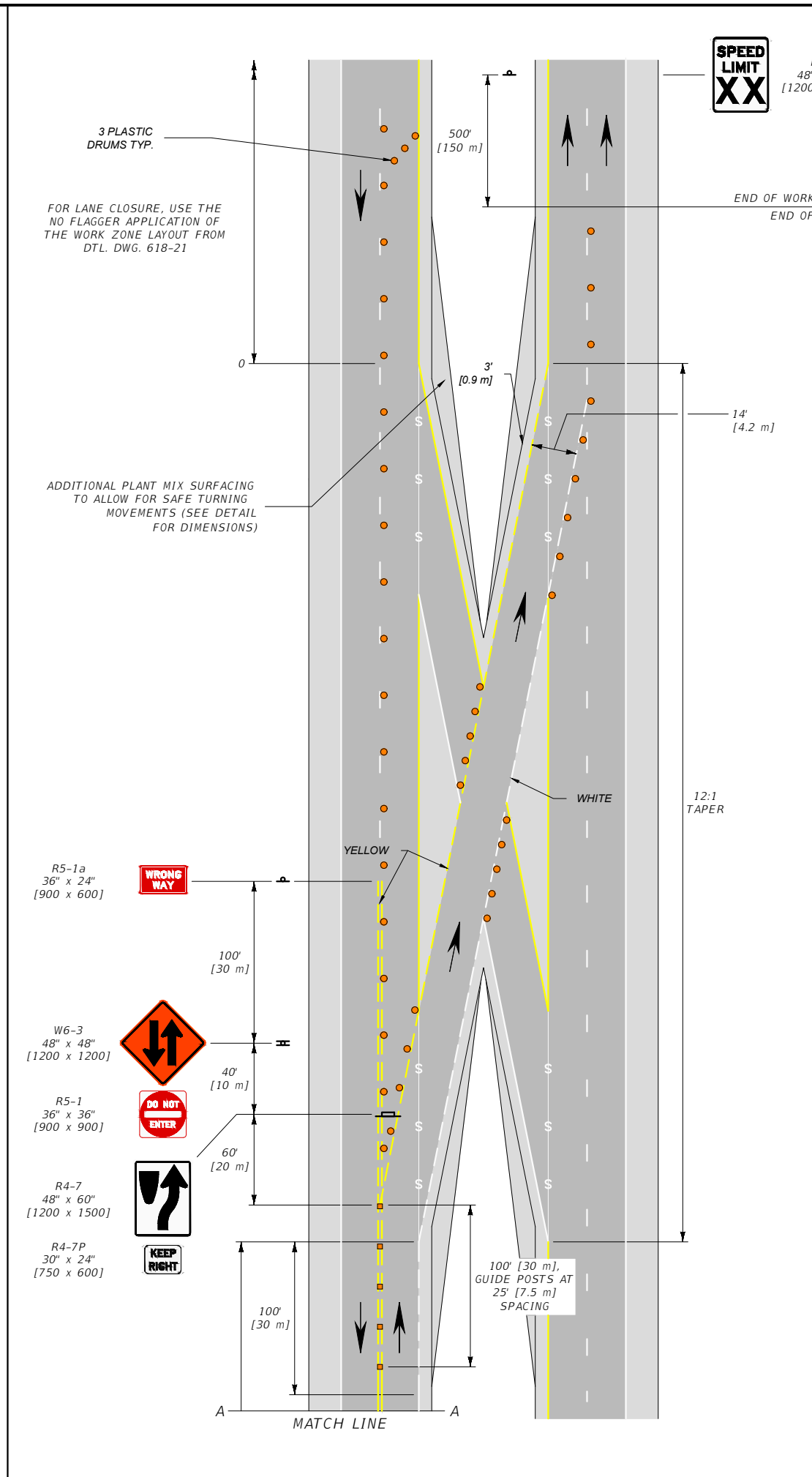
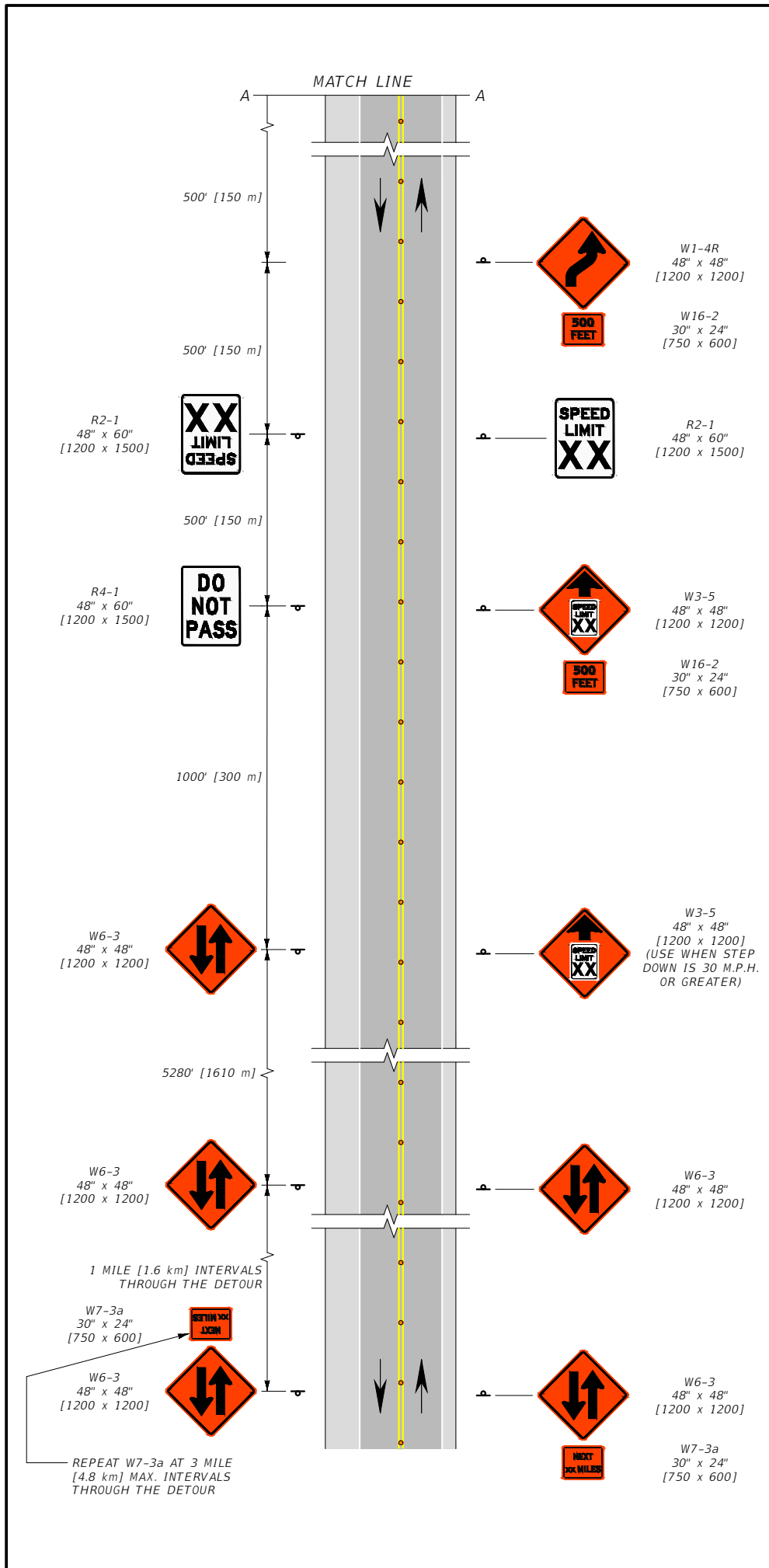
EFFECTIVE: JUN 26, 2024



--REVISED--







R2-1 48" x 60" [1200 x 1500] OR EXISTING NORMAL POSTED SPEED LIMIT(S)

3 PLASTIC DRUMS TYP.

500' [150 m]

END OF WORK AREA OR END OF PROJECT

3' [0.9 m]

14' [4.2 m]

ADDITIONAL PLANT MIX SURFACING TO ALLOW FOR SAFE TURNING MOVEMENTS (SEE DETAIL FOR DIMENSIONS)

WHITE

12:1 TAPER

100' [30 m]

40' [10 m]

60' [20 m]

100' [30 m]

100' [30 m], GUIDE POSTS AT 25' [7.5 m] SPACING

4' [1.2 m]

12' [3.6 m]

12' [3.6 m]

10' [3.0 m]

150' [45 m] TYP.

6.2' [1.9 m] MIN.

ADDITIONAL PLANT MIX SURFACING FOR SAFE TURNING MOVEMENTS

150' [45 m] TYP.

**ADDITIONAL SURFACING DETAIL**

**LEGEND**

- OBLITERATE CONFLICTING PAVEMENT MARKINGS AND FILL ANY EXISTING RUMBLE STRIPS WITH PMS
- PLASTIC DRUMS (SEE NOTES FOR SPACING)
- TEMPORARY STRIPING IN ACCORDANCE WITH SECTION 620 OR RAISED RIGID PAVEMENT MARKERS
- DOUBLE YELLOW PAINT OR DOUBLE PLASTIC PAVEMENT MARKING TABS AT 5' [1.5 m] SPACING
- FLEXIBLE GLUE-DOWN GUIDE POSTS ON TWO-LANE (SEE NOTES FOR SPACING EXCEPT AS SHOWN)

**NOTES:**

- ① INCLUDE REGULATORY SIGNING ONLY AS REQUIRED. REMOVE OR COVER REGULATORY SIGNS TO MATCH ADJACENT REGULATIONS.
- ② "WORK ZONE" IS THE AREA WITHIN THE CONSTRUCTION PROJECT WHERE WORK IS TAKING PLACE.
- ③ XX = SPEED DETERMINED BY THE MEDIAN CROSSOVER DESIGN SPEED OR TABLE 618-5.
- ④ SEE DTL. DWG. 618-27 FOR TYPICAL CROSSOVER SECTION DIMENSIONS.
- ⑤ INDICATED SPACINGS ARE MAXIMUMS, BUT MAY BE REDUCED IF CONDITIONS WARRANT.
- ⑥ SPACE CHANNELIZING DEVICES ON TANGENTS AT INTERVALS IN FEET [METERS] OF NO MORE THAN TWO [0.6] TIMES THE SPEED LIMIT IN M.P.H. AND ON ALL TAPER SECTIONS AT INTERVALS IN FEET [METERS] OF NO MORE THAN ONE [0.3] TIMES THE SPEED LIMIT IN M.P.H. FOR SPEED LIMITS LESS THAN 35 M.P.H., SPACE CHANNELIZING DEVICES AS DIRECTED BY THE PROJECT MANAGER.
- ⑦ OBLITERATE ALL PAVEMENT MARKINGS THAT CONFLICT AT ANY TIME DURING OR AFTER MEDIAN CROSSOVER USE.
- ⑧ POST THE SPEED LIMIT APPROPRIATE FOR ALL VEHICLES FOR THE REMAINDER OF THE CONSTRUCTION PROJECT BEFORE RESUMING TO NORMAL POSTED SPEED LIMITS AT THE END OF THE CONSTRUCTION PROJECT.
- ⑨ WHEN AT THE END OF A CONSTRUCTION PROJECT, POST THE SPEED LIMIT CONSISTING OF ONE LIMIT WHEN THE NORMAL POSTED SPEED LIMIT FOR ALL VEHICLES IS THE SAME. WHEN CAR AND TRUCK SPEED LIMITS DIFFER, POST BOTH LIMITS ON A SINGLE SIGN.

**DETAILED DRAWINGS**

REFERENCE STANDARD SPEC. SECTION 618 DWG. NO. 618-28

**TEMPORARY TWO-LANE TO FOUR-LANE MEDIAN CROSSOVER**

EFFECTIVE JAN 23, 2020

UNITS SHOWN IN BRACKETS [ ] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.

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**MONTANA**  
Department of Transportation

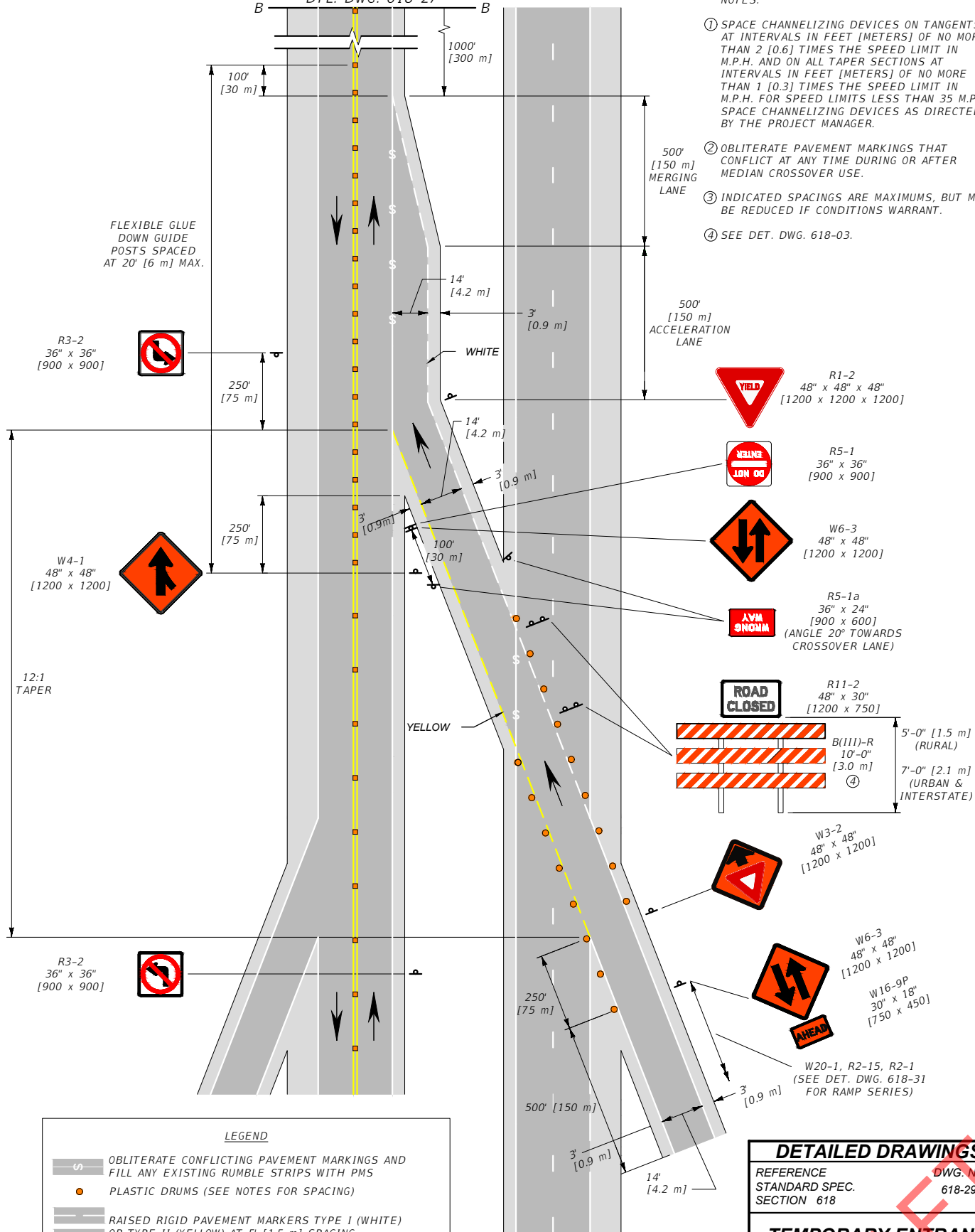
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MATCH LINE FROM  
DTL. DWG. 618-27

NOTES:

- ① SPACE CHANNELIZING DEVICES ON TANGENTS AT INTERVALS IN FEET [METERS] OF NO MORE THAN 2 [0.6] TIMES THE SPEED LIMIT IN M.P.H. AND ON ALL TAPER SECTIONS AT INTERVALS IN FEET [METERS] OF NO MORE THAN 1 [0.3] TIMES THE SPEED LIMIT IN M.P.H. FOR SPEED LIMITS LESS THAN 35 M.P.H. SPACE CHANNELIZING DEVICES AS DIRECTED BY THE PROJECT MANAGER.
- ② OBLITERATE PAVEMENT MARKINGS THAT CONFLICT AT ANY TIME DURING OR AFTER MERGING LANE USE.
- ③ INDICATED SPACINGS ARE MAXIMUMS, BUT MAY BE REDUCED IF CONDITIONS WARRANT.
- ④ SEE DET. DWG. 618-03.



FLEXIBLE GLUE  
DOWN GUIDE  
POSTS SPACED  
AT 20' [6 m] MAX.

R3-2  
36" x 36"  
[900 x 900]

W4-1  
48" x 48"  
[1200 x 1200]

12:1  
TAPER

R3-2  
36" x 36"  
[900 x 900]

R1-2  
48" x 48" x 48"  
[1200 x 1200 x 1200]

R5-1  
36" x 36"  
[900 x 900]

W6-3  
48" x 48"  
[1200 x 1200]

R5-1a  
36" x 24"  
[900 x 600]  
(ANGLE 20° TOWARDS  
CROSSOVER LANE)

R11-2  
48" x 30"  
[1200 x 750]

B(III)-R  
10'-0"  
[3.0 m]

5'-0" [1.5 m] (RURAL)  
7'-0" [2.1 m] (URBAN & INTERSTATE)

W3-2  
48" x 48"  
[1200 x 1200]

W6-3  
48" x 48"  
[1200 x 1200]

W16-9P  
30" x 18"  
[750 x 450]

W20-1, R2-15, R2-1  
(SEE DET. DWG. 618-31  
FOR RAMP SERIES)

**LEGEND**

	OBLITERATE CONFLICTING PAVEMENT MARKINGS AND FILL ANY EXISTING RUMBLE STRIPS WITH PMS
	PLASTIC DRUMS (SEE NOTES FOR SPACING)
	RAISED RIGID PAVEMENT MARKERS TYPE I (WHITE) OR TYPE II (YELLOW) AT 5' [1.5 m] SPACING
	DOUBLE YELLOW PAINT OR DOUBLE PLASTIC PAVEMENT MARKING TABS AT 5' [1.5 m] SPACING
	FLEXIBLE GLUE-DOWN GUIDE POSTS ON TWO-LANE (SEE NOTES FOR SPACING EXCEPT AS SHOWN)

UNITS SHOWN IN BRACKETS [ ] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.






**DETAILED DRAWINGS**

REFERENCE STANDARD SPEC. SECTION 618	DWG. NO. 618-29
<b>TEMPORARY ENTRANCE RAMP MEDIAN CROSSOVER</b>	
EFFECTIVE JAN 23, 2020	

--REVISED--  
JUN 27, 2024  
JUN 26, 2025

**MONTANA**  
Department of Transportation

**LEGEND**

-  OBLITERATE CONFLICTING PAVEMENT MARKINGS AND FILL ANY EXISTING RUMBLE STRIPS WITH PMS
-  PLASTIC DRUMS (SEE NOTES FOR SPACING)
-  RAISED RIGID PAVEMENT MARKERS TYPE I (WHITE) OR TYPE II (YELLOW) AT 5' [1.5 m] SPACING
-  DOUBLE YELLOW PAINT OR DOUBLE PLASTIC PAVEMENT MARKING TABS AT 5' [1.5 m] SPACING
-  FLEXIBLE GLUE-DOWN GUIDE POSTS ON TWO-LANE (SEE NOTES FOR SPACING EXCEPT AS SHOWN)

E5-1  
60" x 48"  
[1500 x 1200]



R3-2  
36" x 36"  
[900 x 900]



FLEXIBLE GLUE  
DOWN GUIDE  
POSTS SPACED  
AT HALF NORMAL  
SPACING

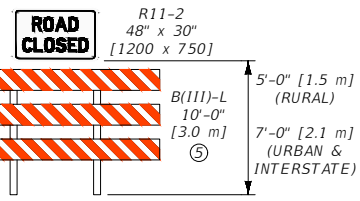
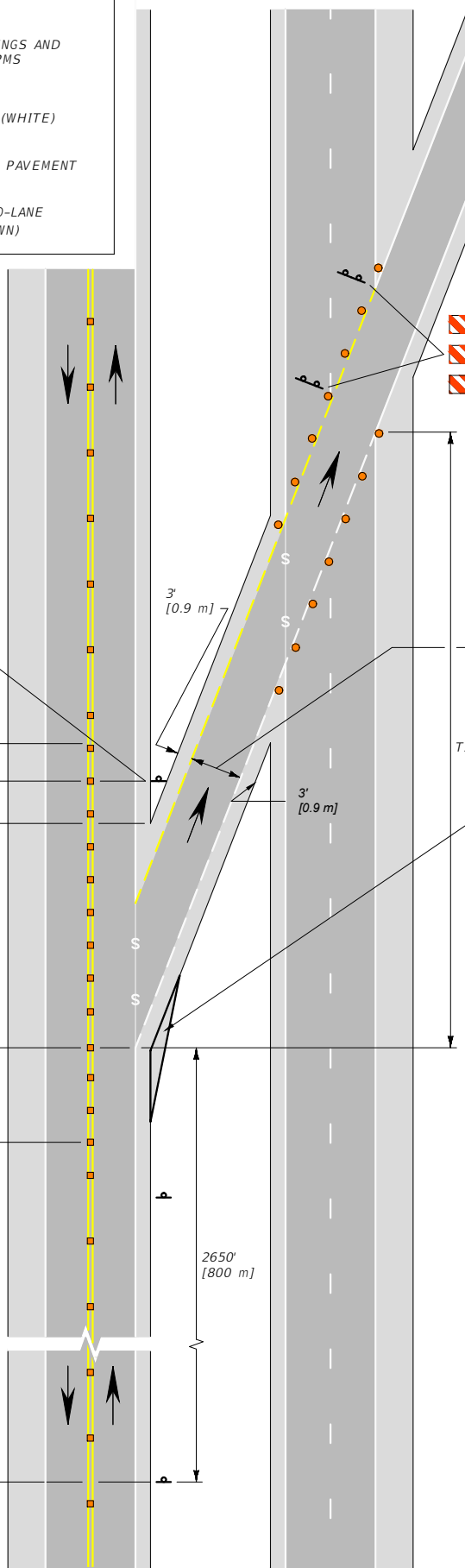
W6-3  
48" x 48"  
[1200 x 1200]



E7-1  
72" x 36"  
[1800 x 900]



UNITS SHOWN IN BRACKETS [ ] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.



ADDITIONAL PLANT MIX SURFACING TO ALLOW FOR SAFE TURNING MOVEMENTS (SEE DTL. DWG. 618-28 FOR DIMENSIONS)

**NOTES:**

- ① SPACE CHANNELIZING DEVICES ON TANGENTS AT INTERVALS IN FEET [METERS] OF NO MORE THAN 2 [0.6] TIMES THE SPEED LIMIT IN M.P.H. AND ON ALL TAPER SECTIONS AT INTERVALS IN FEET [METERS] OF NO MORE THAN 1 [0.3] TIMES THE SPEED LIMIT IN M.P.H. FOR SPEED LIMITS LESS THAN 35 M.P.H. SPACE CHANNELIZING DEVICES AS DIRECTED BY THE PROJECT MANAGER.
- ② OBLITERATE ALL PAVEMENT MARKINGS THAT CONFLICT AT ANY TIME DURING OR AFTER MEDIAN CROSSOVER USE.
- ③ INDICATED SPACINGS ARE MAXIMUMS, BUT MAY BE REDUCED IF CONDITIONS WARRANT.
- ④ PROVIDE ADDITIONAL SIGNING FOR EXIT DESTINATION WHEN EXIT DELINEATION IS NOT VISIBLE.
- ⑤ SEE DET. DWG. 618-03.

**DETAILED DRAWINGS**

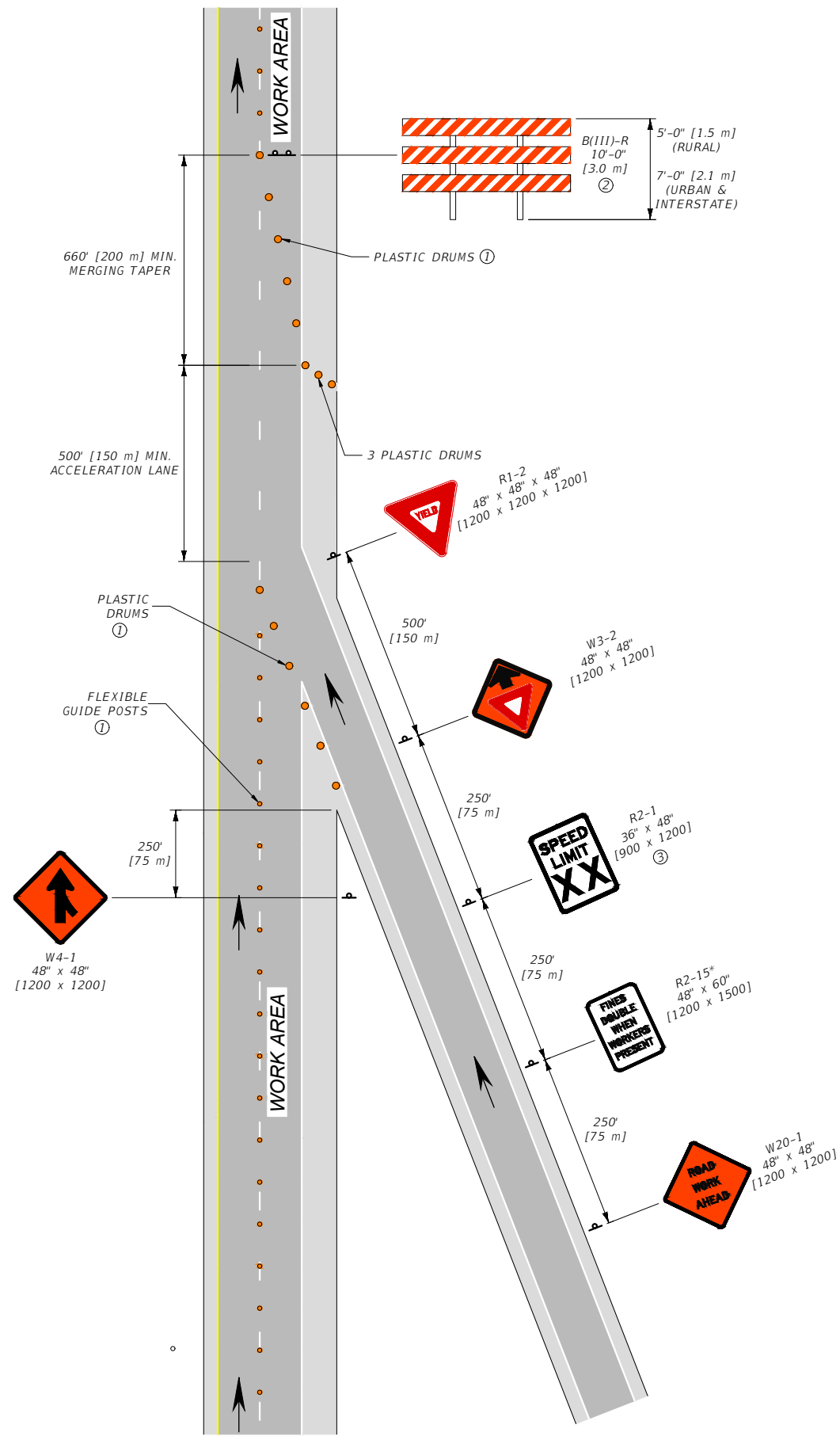
REFERENCE STANDARD SPEC. SECTION 618	DWG. NO. 618-30
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**TEMPORARY EXIT RAMP  
MEDIAN CROSSOVER**

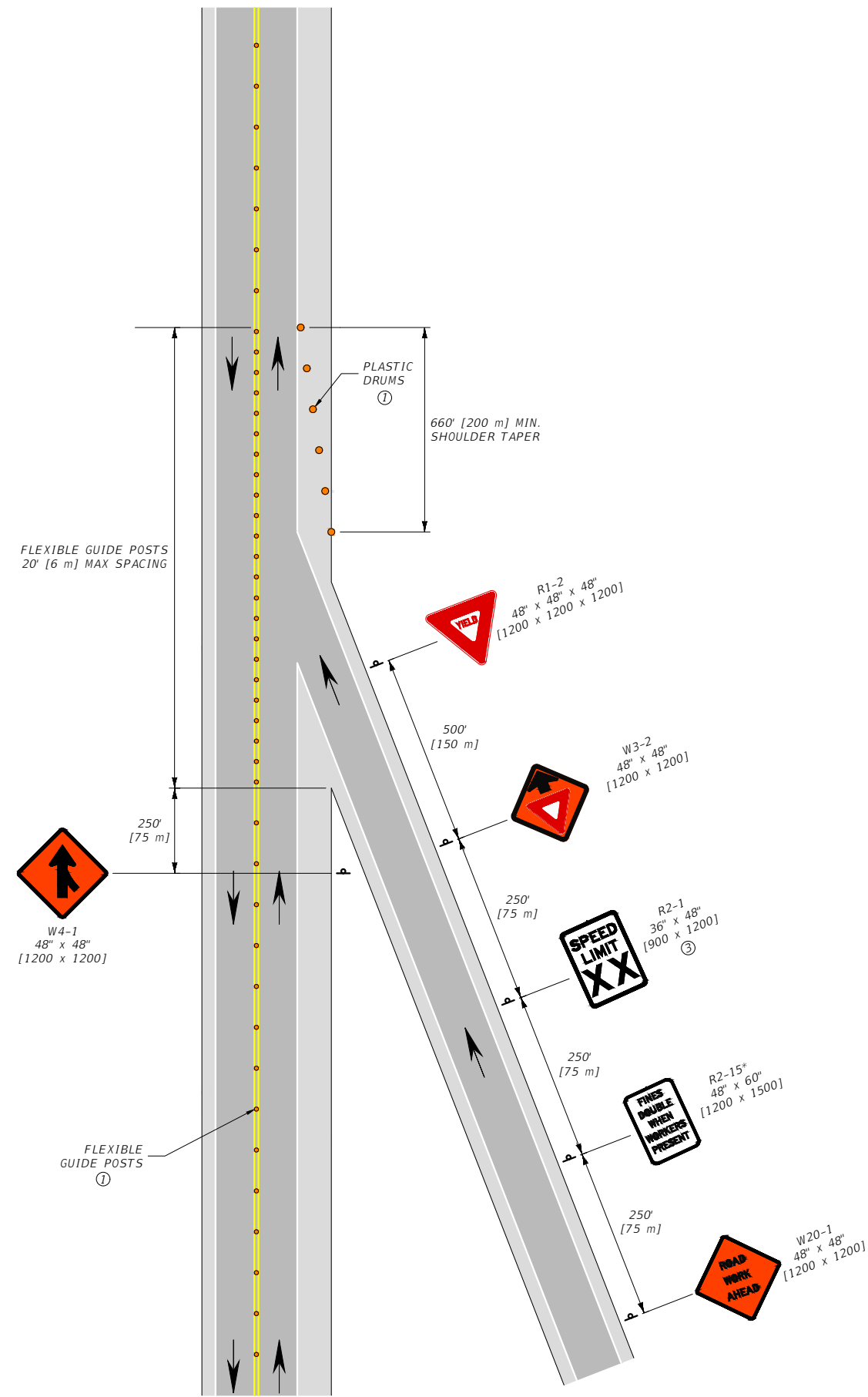
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--REVISED--  
JUN 27, 2024  
JUN 26, 2025



RAMP MERGE WARNING - RIGHT LANE CLOSED



RAMP MERGE WARNING - LEFT LANE CLOSED

- NOTES:
- ① SPACE FLEXIBLE GUIDE POSTS ON TANGENTS AT INTERVALS IN FEET [METERS] OF NO MORE THAN 2 [0.6] TIMES THE SPEED LIMIT IN M.P.H. SPACE PLASTIC DRUMS IN ALL TAPER SECTIONS AT INTERVALS IN FEET [METERS] OF NO MORE THAN 1 [0.3] TIMES THE SPEED LIMIT IN M.P.H. FOR SPEED LIMITS LESS THAN 35 M.P.H. SPACE CHANNELIZING DEVICES AS DIRECTED BY THE PROJECT MANAGER.
  - ② SEE DET. DWG. 618-03.
  - ③ XX = MAINLINE SPEED LIMIT.

UNITS SHOWN IN BRACKETS [ ] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.

DETAILED DRAWINGS	
REFERENCE STANDARD SPEC. SECTION 618, 715	DWG. NO. 618-31

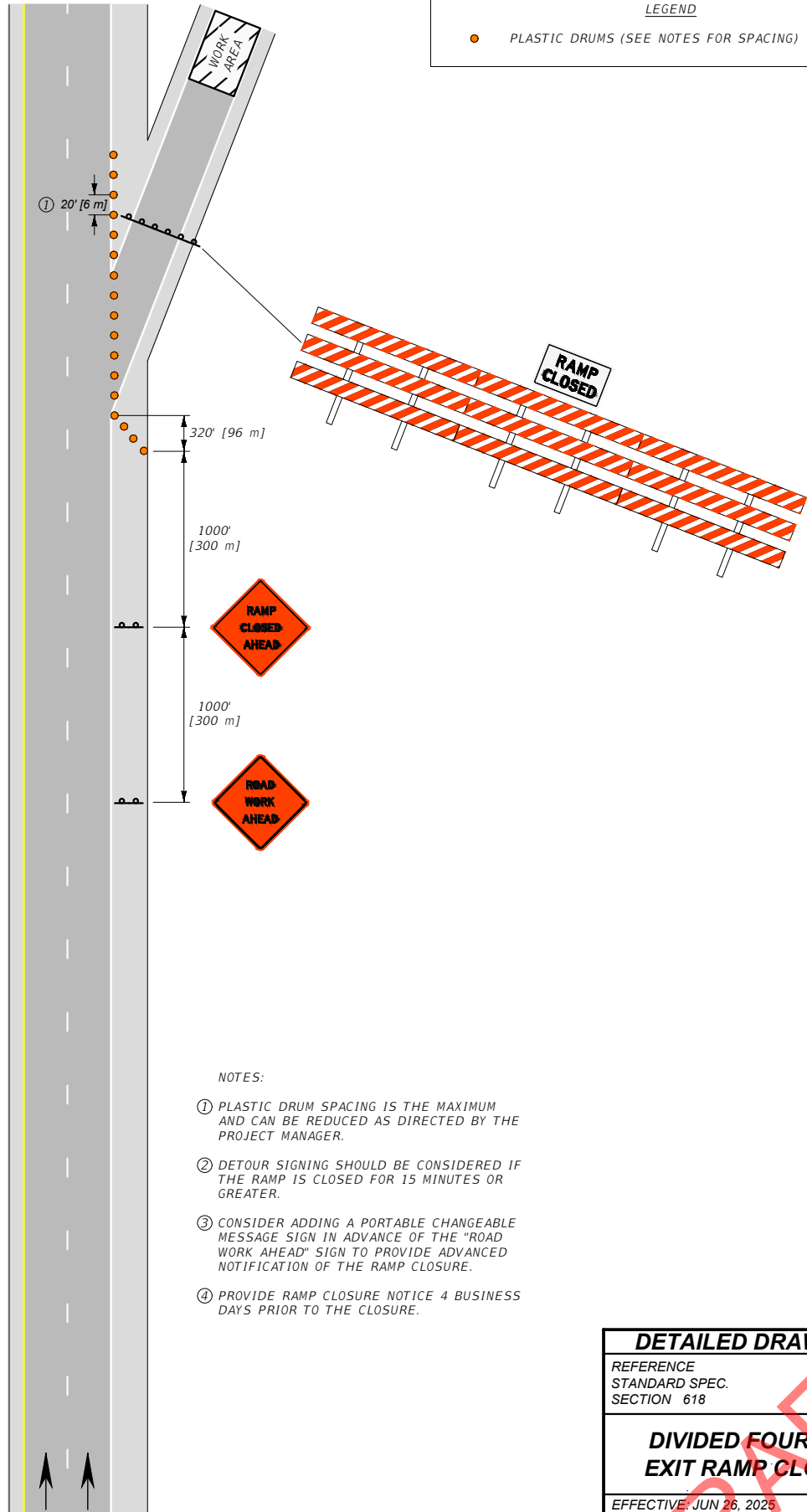
**DIVIDED FOUR-LANE RAMP MERGE**  
EFFECTIVE JUN 26, 2025



--REVISED--

LEGEND

● PLASTIC DRUMS (SEE NOTES FOR SPACING)



NOTES:

- ① PLASTIC DRUM SPACING IS THE MAXIMUM AND CAN BE REDUCED AS DIRECTED BY THE PROJECT MANAGER.
- ② DETOUR SIGNING SHOULD BE CONSIDERED IF THE RAMP IS CLOSED FOR 15 MINUTES OR GREATER.
- ③ CONSIDER ADDING A PORTABLE CHANGEABLE MESSAGE SIGN IN ADVANCE OF THE "ROAD WORK AHEAD" SIGN TO PROVIDE ADVANCED NOTIFICATION OF THE RAMP CLOSURE.
- ④ PROVIDE RAMP CLOSURE NOTICE 4 BUSINESS DAYS PRIOR TO THE CLOSURE.

UNITS SHOWN IN BRACKETS [ ] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.

**DETAILED DRAWINGS**

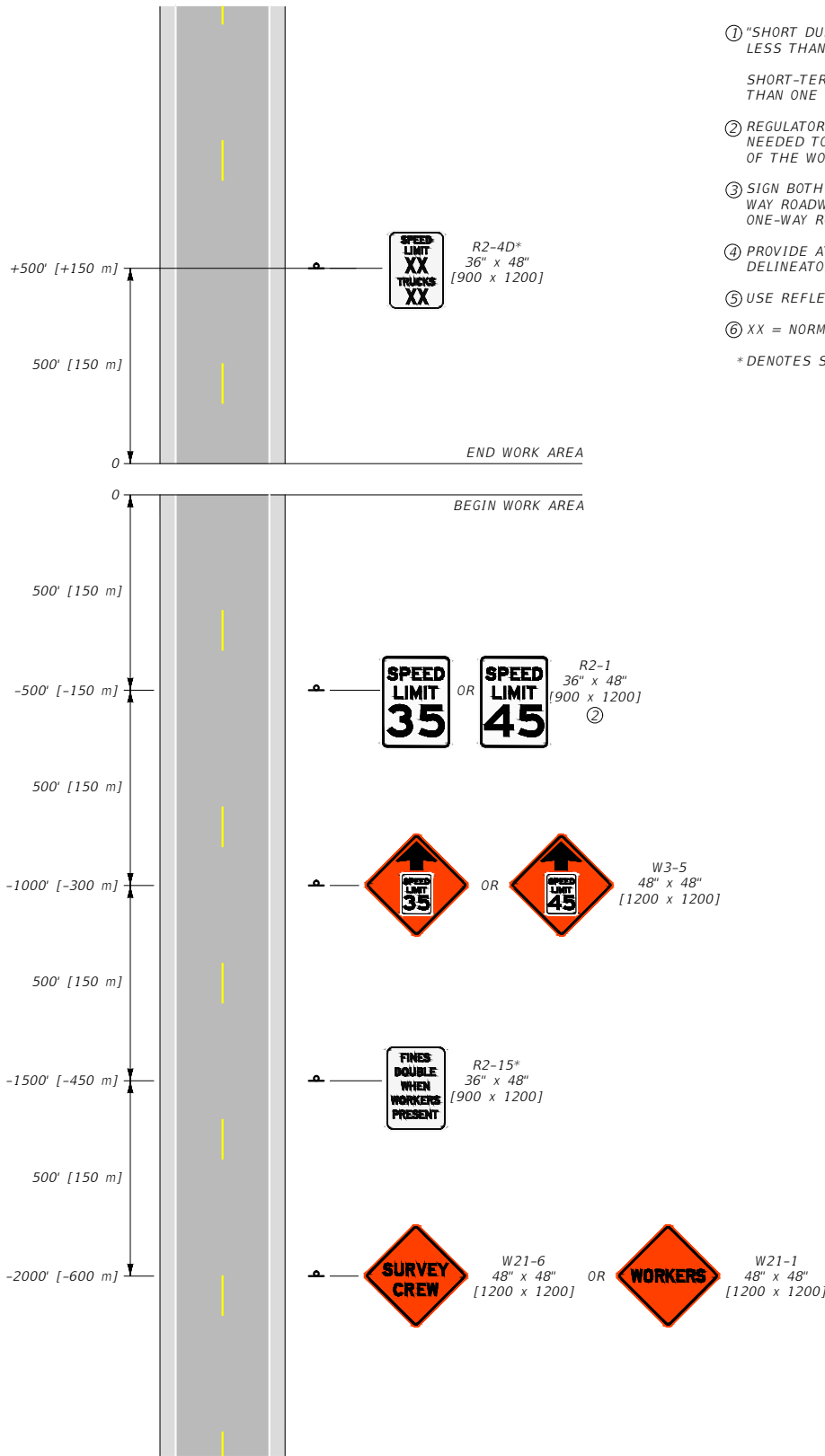
REFERENCE STANDARD SPEC. SECTION 618	DWG. NO. 618-32
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**DIVIDED FOUR-LANE EXIT RAMP CLOSURE**

EFFECTIVE: JUN 26, 2025




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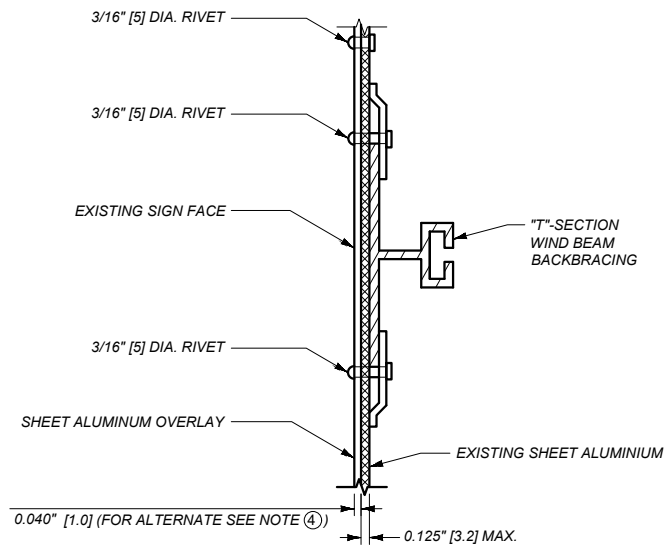
NOTES:

- ① "SHORT DURATION ACTIVITIES" ARE THOSE LASTING LESS THAN AN HOUR.  
SHORT-TERM ACTIVITIES ARE THOSE LASTING LONGER THAN ONE HOUR BUT ENDING WITHIN A FULL SHIFT.
  - ② REGULATORY SPEED SIGNS MUST MOVE AS NEEDED TO REMAIN WITHIN 500 FEET [150 m] OF THE WORK AREA.
  - ③ SIGN BOTH TRAVEL DIRECTIONS ON TWO-LANE, TWO-WAY ROADWAYS OR BOTH SHOULDERS ON TWO-LANE, ONE-WAY ROADWAYS.
  - ④ PROVIDE AT LEAST THE DISTANCE SHOWN FOR DELINEATOR MOUNTED SIGNS.
  - ⑤ USE REFLECTIVE DEVICES.
  - ⑥ XX = NORMAL POSTED SPEED LIMIT(S).
- \* DENOTES SIGNS UNIQUE TO MONTANA.

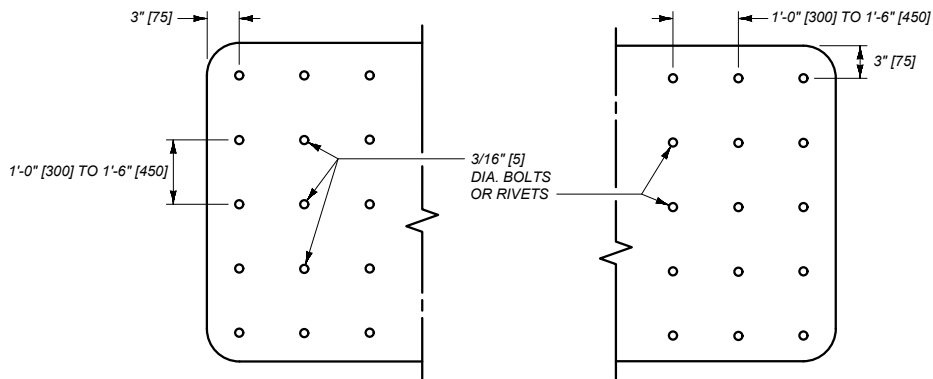
UNITS SHOWN IN BRACKETS [ ] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.

<b>DETAILED DRAWINGS</b>	
REFERENCE STANDARD SPEC. SECTION 618	DWG. NO. 618-40
<b>SHORT DURATION OR SHORT-TERM STATIONARY CREW SIGNING</b>	
EFFECTIVE JAN 23, 2020	
	

--REVISED--  
 JUN 27, 2024  
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**EXISTING ALUMINUM SIGNS**



**FASTENER PATTERN**


**NOTES:**

- ① REMOVE ALL RAISED LETTERS, NUMERALS, SYMBOLS, BORDERS AND PREVIOUS SIGN OVERLAYS TO BE REPLACED, AND CLEAN SIGN FACE TO A SMOOTH SURFACE BEFORE OVERLAYING.
- ② ALL LETTERS, NUMERALS, SYMBOLS AND BORDERS ARE TYPE "C" CUTOUT UNLESS OTHERWISE SPECIFIED, AND APPLIED TO THE BACKGROUND SHEETING PRIOR TO FIELD APPLICATION OF THE SIGN.
- ③ THE SIZE OF ALL GUIDE SIGN OVERLAYS AND LEGENDS MUST BE VERIFIED BY THE PROJECT MANAGER PRIOR TO FABRICATION.
- ④ AN ADHESIVE-BACKED SHEETING MAY BE USED AS AN ALTERNATIVE ON SIGN WIDTHS OF 6'-0" [1800] OR LESS IF IT IS PREFABRICATED TO A MINIMUM THICKNESS OF 0.005" [0.13] AND CONSTRUCTED OF PREAPPLIED REFLECTIVE SHEETING ON ADHESIVE-BACKED ALUMINUM. APPLY ADHESIVE-BACKED OVERLAY SHEETING WHEN AIR AND SURFACE TEMPERATURES ARE ABOVE 50°F (10°C). DO NOT USE THIS TYPE OF OVERLAY MATERIAL ON OVERHEAD SIGNS.
- ⑤ PROVIDE A MINIMUM REFLECTIVE SHEETING INTENSITY OF TYPE 4, MEETING THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, UNLESS SPECIFIED OTHERWISE.
- ⑥ APPLY ALL MATERIALS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS AND RECOMMENDATIONS.

- ⑦ USE ALUMINUM ALLOY TYPE 6061-T6 OR AA5052-H38. CONVERSION COAT ALL ALUMINUM WITH A PROCESS SUCH AS ALODINE 1200 (OR EQUAL), AND RINSE AND DRY THOROUGHLY. PROTECT IT FROM SOIL BY ACCEPTABLE METHODS.
- ⑧ SIGN OVERLAYS MAY REQUIRE REMOVAL OF THE SIGN FROM THE POSTS TO AVOID PROJECTING BOLT HEADS. DO NOT LEAVE WARNING AND REGULATORY SIGNS TO BE OVERLAYED UNDISPLAYED FOR MORE THAN ONE (1) HOUR DURING DAYLIGHT. DO NOT LEAVE GUIDE SIGNS UNDISPLAYED FOR MORE THAN TEN (10) HOURS DURING DAYLIGHT. INSURE SIGNS TO BE OVERLAYED ARE OPERATIONAL PRIOR TO DARKNESS.
- ⑨ OVERLAY SIGNS SMALLER THAN 4'-0" x 6'-0" [1200 x 1800] WITH ONE PANEL OF MATERIAL. FOR SEAMS IN LARGE OVERLAYS, USE RIVETS OR BOLTS SPACED AS SHOWN ON THIS DRAWING AND PLACE PARALLEL TO AND NO MORE THAN 3" [75] Laterally FROM THE SEAM.
- ⑩ USE HARDWARE MEETING THE REQUIREMENTS OF SECTION 704.

UNITS SHOWN IN BRACKETS [ ] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.

--REVISED--  
 JUN 27, 2024  
 JUN 26, 2025

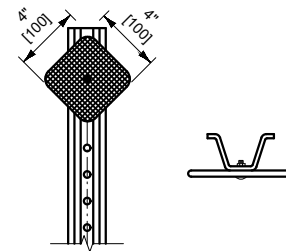
<b>DETAILED DRAWINGS</b>	
REFERENCE STANDARD SPEC. SECTION 619, 704	DWG. NO. 619-10
<b>SHEET ALUMINUM OVERLAY</b>	
EFFECTIVE JAN 23, 2020	
 <b>MONTANA</b> Department of Transportation	
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**DESIGN A USAGE:**

USE FOR CONTINUOUS DELINEATION AND RT. SHOULDER OF ALL ROUTES.

**DESIGN H USAGE:**

USE ON LT. SHOULDER OF INTERSTATE ROUTES.



DESIGN A (WHITE)  
DESIGN H (YELLOW)

**DESIGN B USAGE:**

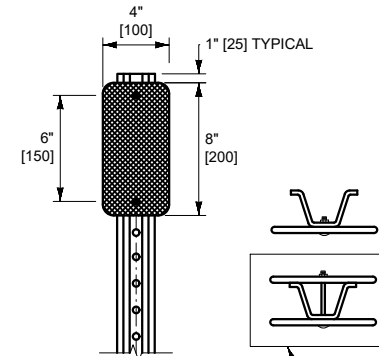
USE ON LT. SHOULDER OF INTERSTATE RAMPS AND AUTHORIZED VEHICLE ONLY CROSSOVERS.

**DESIGN G USAGE:**

USE ON RT. SHOULDER OF INTERSTATE RAMPS.

**DESIGN J USAGE:**

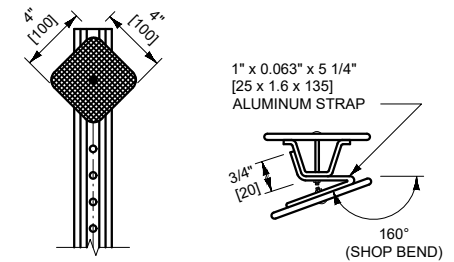
USE FOR TRUCK ESCAPE RAMPS AND INTERCHANGE OFF RAMPS FROM MID-POINT TO GORE LT & RT FOR WRONG WAY TRAVELERS.



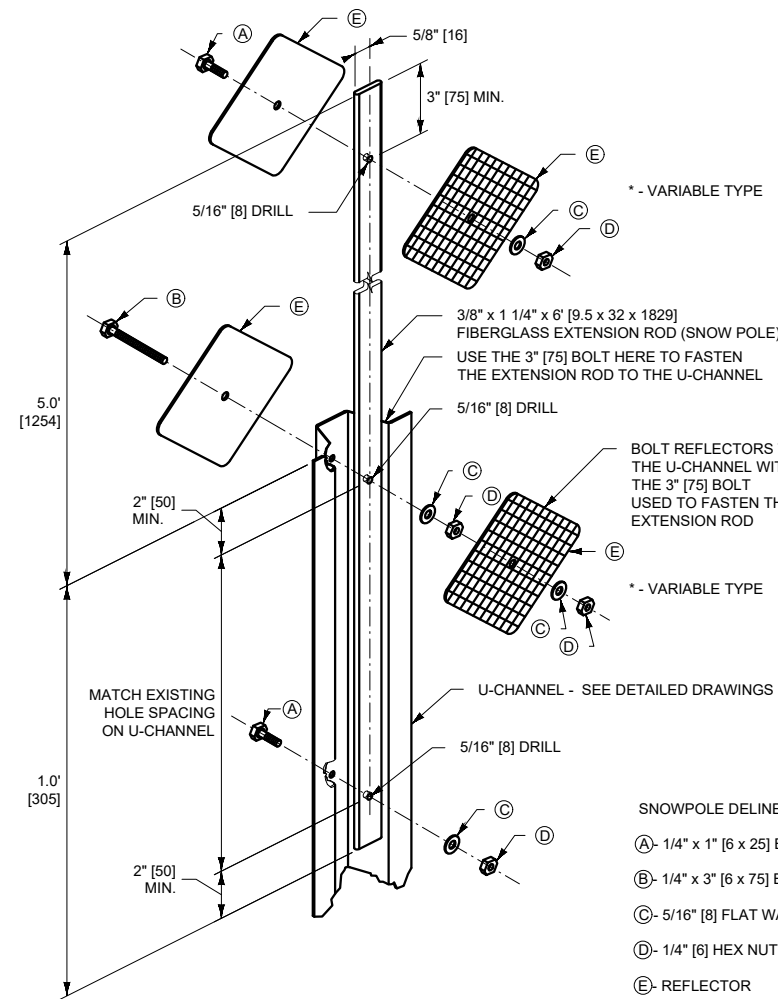
DESIGN B (YELLOW)  
DESIGN G (WHITE)  
DESIGN J (RED)

**DESIGN C USAGE:**

USE FOR CURVES WITH RADII 573' [170 m] OR LESS, BOTH OUTSIDE AND INSIDE OF CURVE.



DESIGN C (WHITE)



SNOWPOLE DELINEATOR DETAIL

\* - VARIABLE TYPE

\* - VARIABLE TYPE

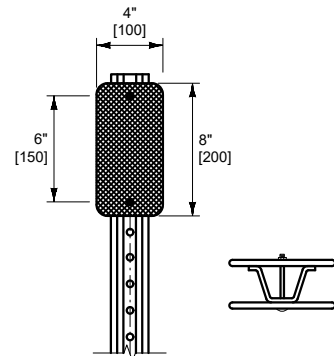
**SNOWPOLE DELINEATOR NOTES:**

- (A)- 1/4" x 1" [6 x 25] BOLT
- (B)- 1/4" x 3" [6 x 75] BOLT
- (C)- 5/16" [8] FLAT WASHER
- (D)- 1/4" [6] HEX NUT
- (E)- REFLECTOR

\* = MATCH SNOWPOLE DELINEATOR WITH ROADWAY DELINEATOR.

**DESIGN D USAGE:**

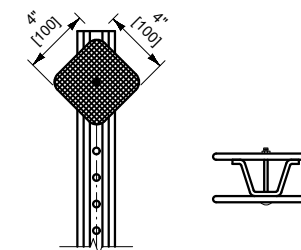
NON-INTERSTATE ROUTES:  
USE AT APPROACHES WITH STOP OR YIELD SIGNS.  
INTERSTATE ROUTES:  
USE AT INTERSECTION OF RAMPS AND CROSSROAD.



DESIGN D (YELLOW)

**DESIGN F USAGE:**

USE FOR CURVES WITH RADII GREATER THAN 573' [170 m]; 1433' [450 m] TO 765' [231 m] RADIUS: OUTSIDE ONLY, 764' [230 m] TO 573' [171 m] RADIUS: OUTSIDE AND INSIDE OF CURVE.



DESIGN F (WHITE)

**NOTES:**

- ① SOME TYPICAL USES ARE SHOWN FOR EACH DESIGN. REFER TO THE MUTCD FOR SPECIFIC GUIDANCE.
- ② USE HARDWARE MEETING THE REQUIREMENTS OF SECTION 704.

DELINEATOR LEGEND	
TYPE I	
DESIGN "A"	—
DESIGN "B"	—
DESIGN "D"	—
DESIGN "F"	—
DESIGN "G"	— <
DESIGN "H"	— >
DESIGN "J"	— x
DESIGN "GJ"	x— <
DESIGN "BJ"	x—
TYPE II	
DESIGN "C"	— <

UNITS SHOWN IN BRACKETS [ ] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.

**DETAILED DRAWINGS**

REFERENCE STANDARD SPEC. SECTION 619, 704  
DWG. NO. 619-34

**DELINEATOR DETAILS**

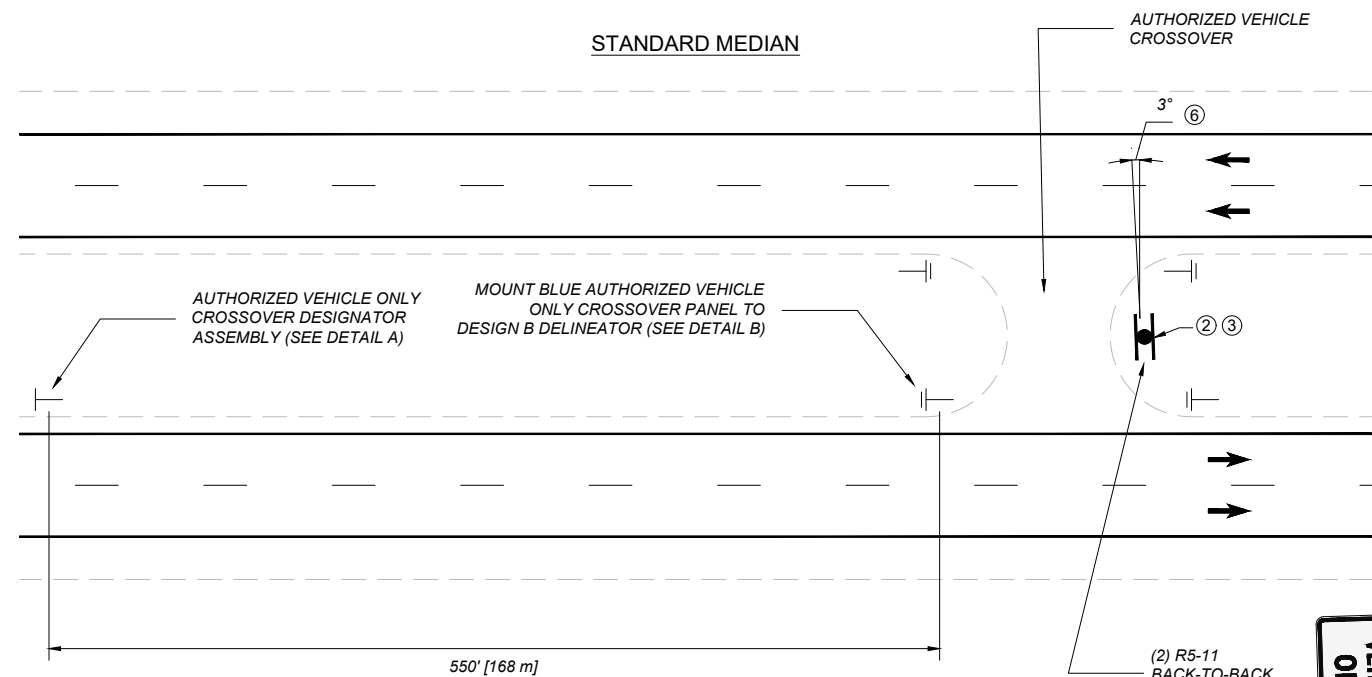
EFFECTIVE JAN 23, 2020



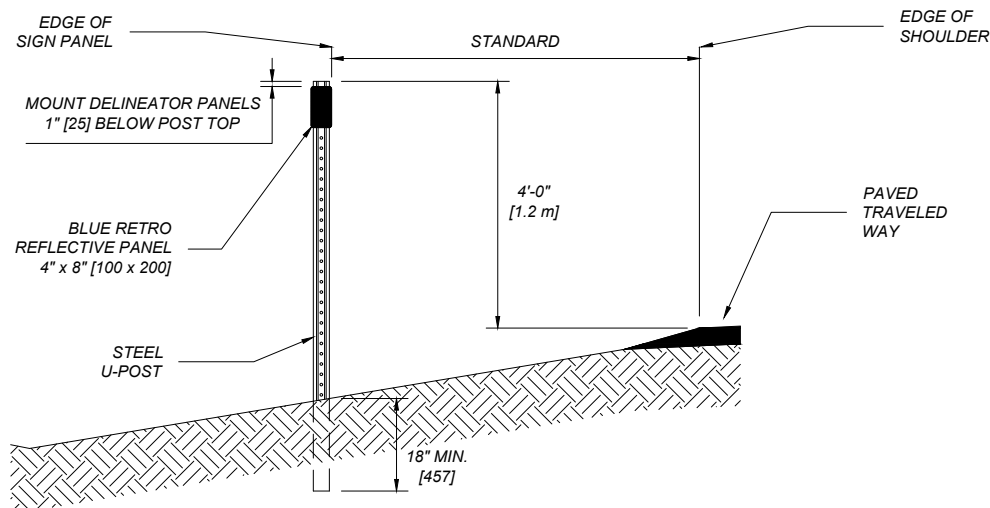
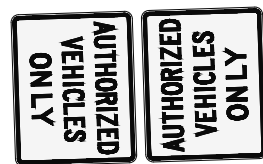
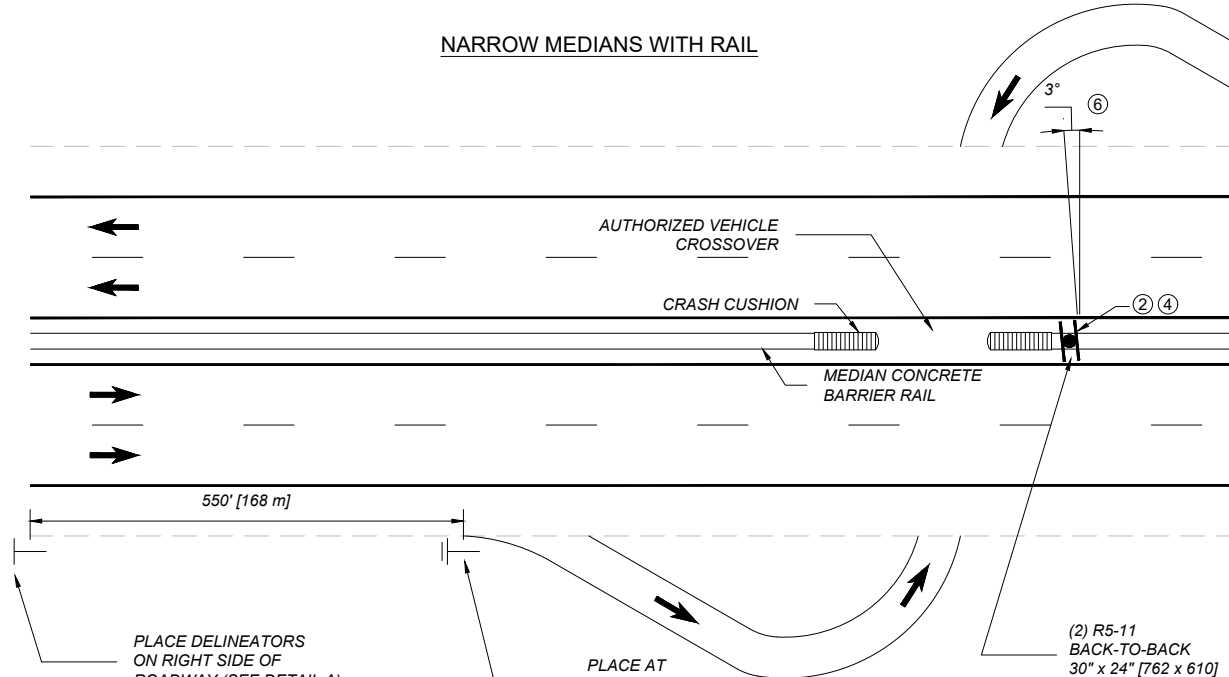
—REVISED—  
JUN 26, 2025



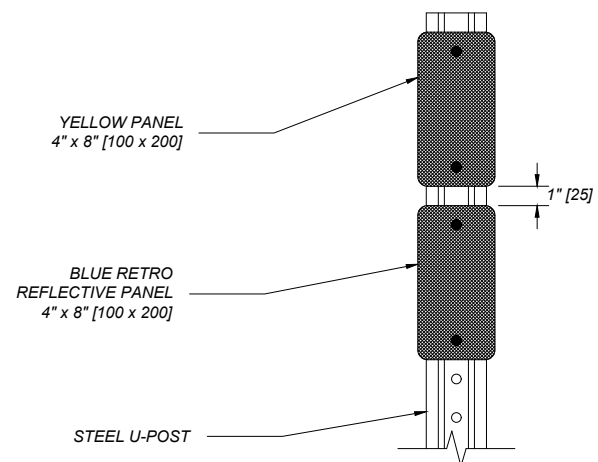
**STANDARD MEDIAN**



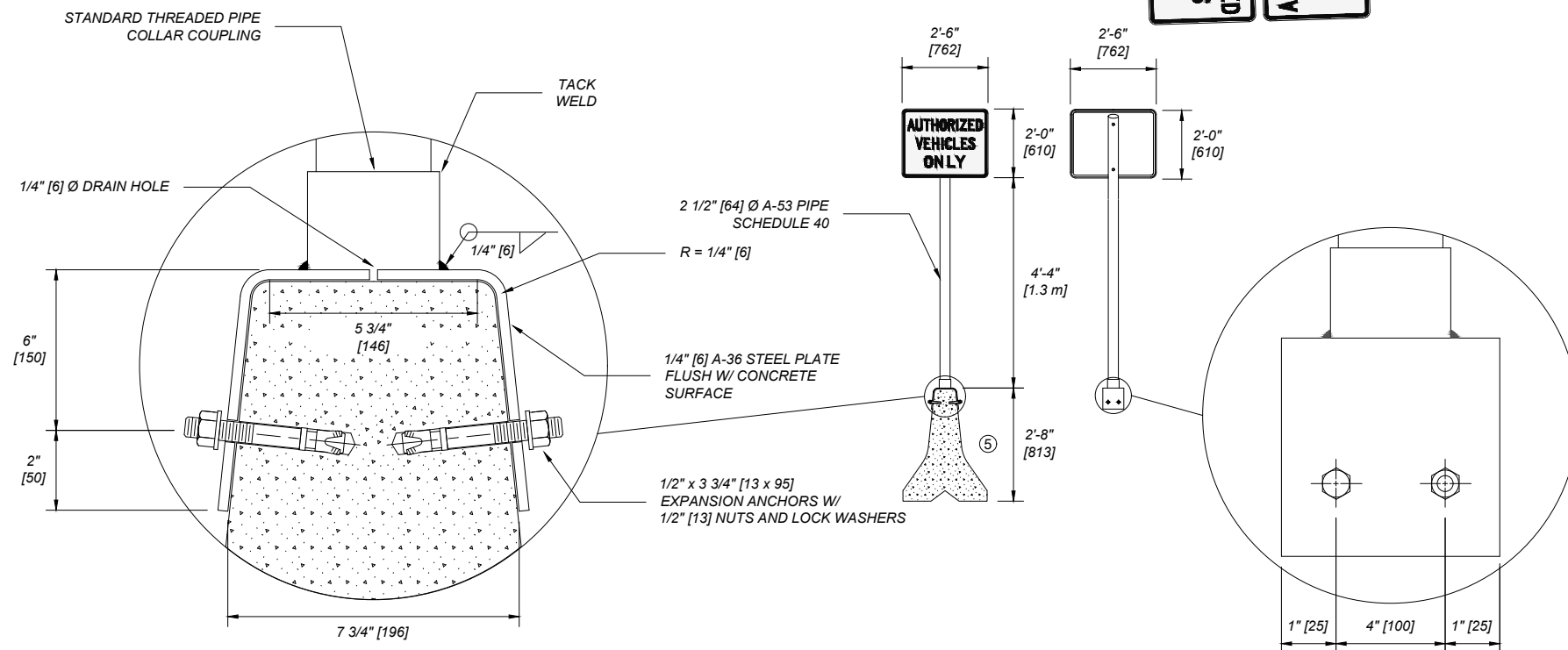
**NARROW MEDIANS WITH RAIL**



① **DETAIL A**



① **DETAIL B**



**NOTES:**

- ① APPLY THIS DETAIL TO BOTH SIDES OF THE INTERSTATE ON EACH APPROACH TO AUTHORIZED VEHICLE CROSSOVERS.
- ② FOR MEDIAN WIDTHS OF 76' [23 m] OR LESS, MOUNT THE R5-11 SIGNS BACK-TO-BACK. INSTALL AT THE CENTERLINE OF THE MEDIAN AND ON THE SIDE OF THE U-TURN AWAY FROM THE NEAREST INTERCHANGE.
- ③ FOR MEDIAN WIDTHS GREATER THAN 76' [23 m], INSTALL THE R5-11 SIGNS SEPARATELY ON BOTH SIDES OF THE U-TURN AT CLEARANCES SPECIFIED IN THE SIGN LOCATION AND SPECIFICATIONS.
- ④ FOR OPENINGS THROUGH MEDIAN GUARD RAILS, INSTALL THE SIGN POST IN LINE WITH THE GUARD RAIL POSTS.
- ⑤ AUTHORIZED VEHICLES SIGN MUST BE INSTALLED ON STANDARD HEIGHT BARRIER. TRUCK HEIGHT BARRIER RAIL WILL IMPEDE SIGHT DISTANCE.
- ⑥ AUTHORIZED VEHICLE SIGN MUST BE INSTALLED WITH A 3° SKEW. FOLLOW MANUFACTURER'S INSTALLATIONS INSTRUCTIONS.

UNITS SHOWN IN BRACKETS [ ] ARE METRIC AND ARE IN MILLIMETERS (mm) UNLESS OTHER UNITS ARE SHOWN.

--REVISED--

**DETAILED DRAWINGS**

REFERENCE STANDARD SPEC. SECTION 619, 704  
 DWG. NO. 619-46

**AUTHORIZED VEHICLE CROSSOVER DESIGNATOR**

EFFECTIVE JUN 26, 2025

3/19/2025 12:25 PM

