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WITH:

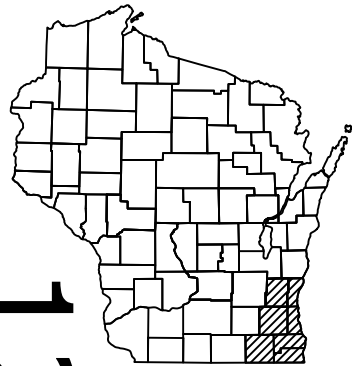
PROJECT ID:
1000-77-22

COUNTY:
REGION WIDE

MARCH 2022
ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right-of-Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 106



12

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

EPOXY PAVEMENT MARKING - 2022

PER STN ANNUAL PLAN

SE VAR HWY
REGION WIDE

STATE PROJECT NUMBER
1000-77-22

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1000-77-22		

WASHINGTON COUNTY

OZAUKEE COUNTY

WAUKESHA COUNTY

MILWAUKEE COUNTY

WALWORTH COUNTY

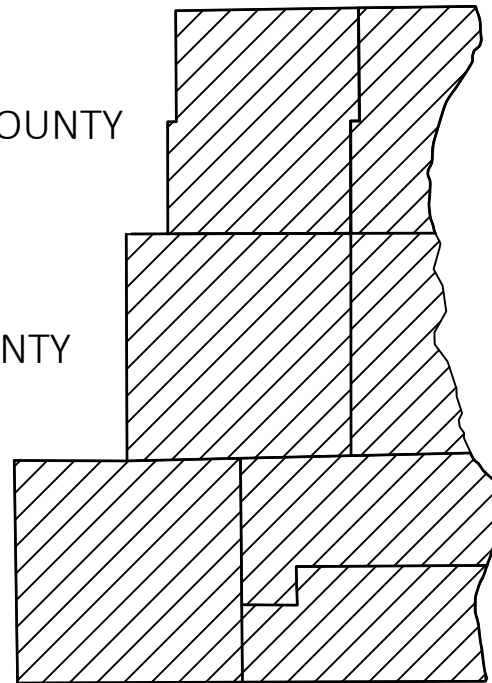
RACINE COUNTY

KENOSHA COUNTY

CONVENTIONAL SYMBOLS

PLAN	
CORPORATE LIMITS	
PROPERTY LINE	
LOT LINE	
LIMITED HIGHWAY EASEMENT	
EXISTING RIGHT OF WAY	
PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	
EXISTING CULVERT	
PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	
MARSH AREA	
WOODED OR SHRUB AREA	

PROFILE	
GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	



LAYOUT
SCALE PROJECT ID 1000-77-22

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	_____
Designer	DONALD STEEL
Project Manager	TOM HEYDEL
Regional Examiner	TOM HEYDEL
Regional Supervisor	DON BERGHAMMER

APPROVED FOR THE DEPARTMENT

DATE: 10/22/21 *Thomas A Heydel*
(Signature)

E

GENERAL NOTES:

1. THERE ARE NO UTILITY IMPACTS FOR THIS PROJECT
2. THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

CONTACTS:

DNR- SPILL HOTLINE (24HR)
 1-800-943-0003



EPOXY PAVEMENT MARKING 2022

2

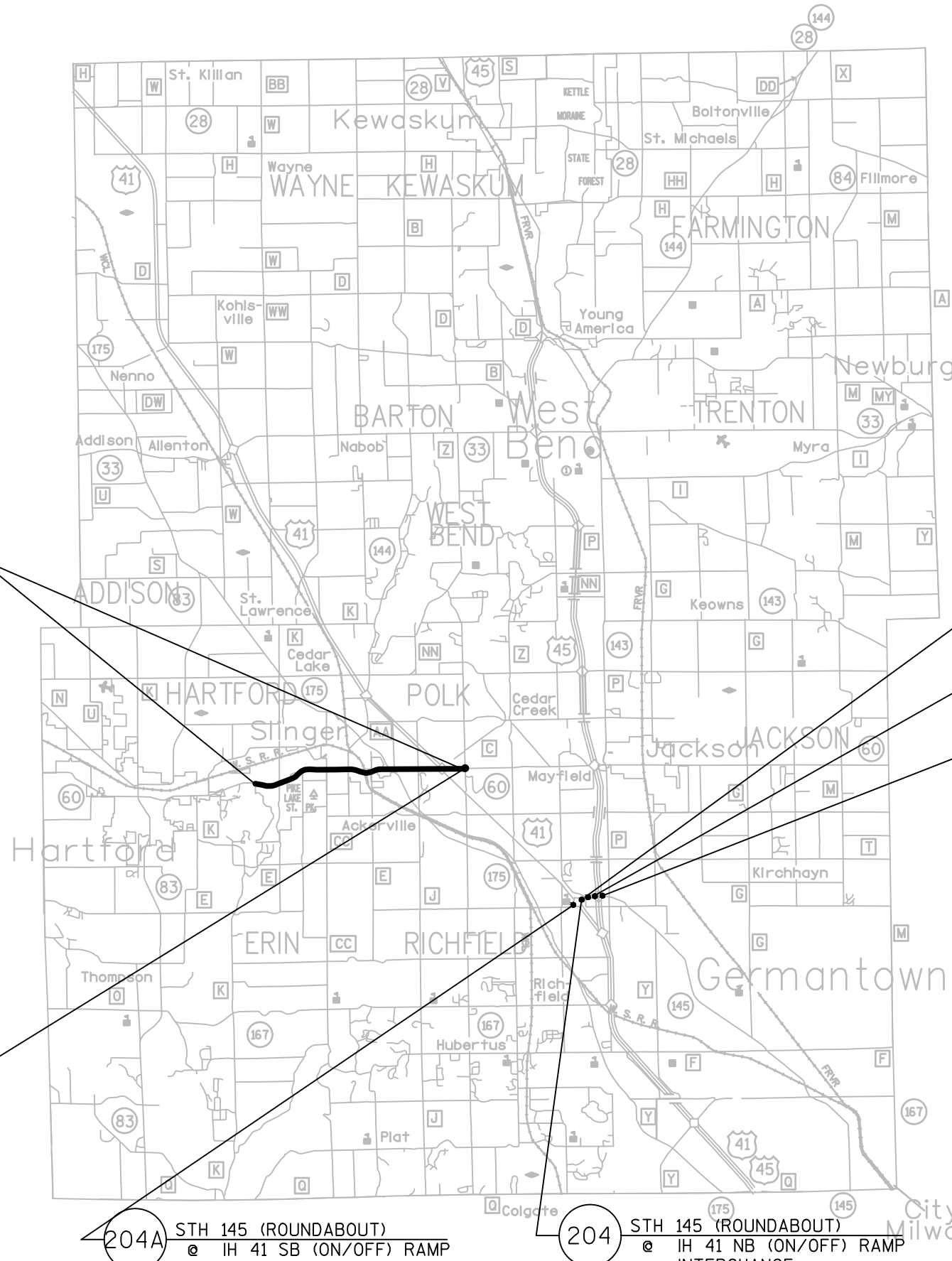
2



STH 60
CTH C TO HIGH RD
INTERSECTION

NOTE:
START W. OF
CTH C ROUNDABOUT

STH 60
STH 60 @ CTH C
(HILLSIDE RD)
(ROUNDABOUT)
INTERSECTION



203 STH 145 (ROUNDABOUT)
@ CABELA WAY INTERSECTION

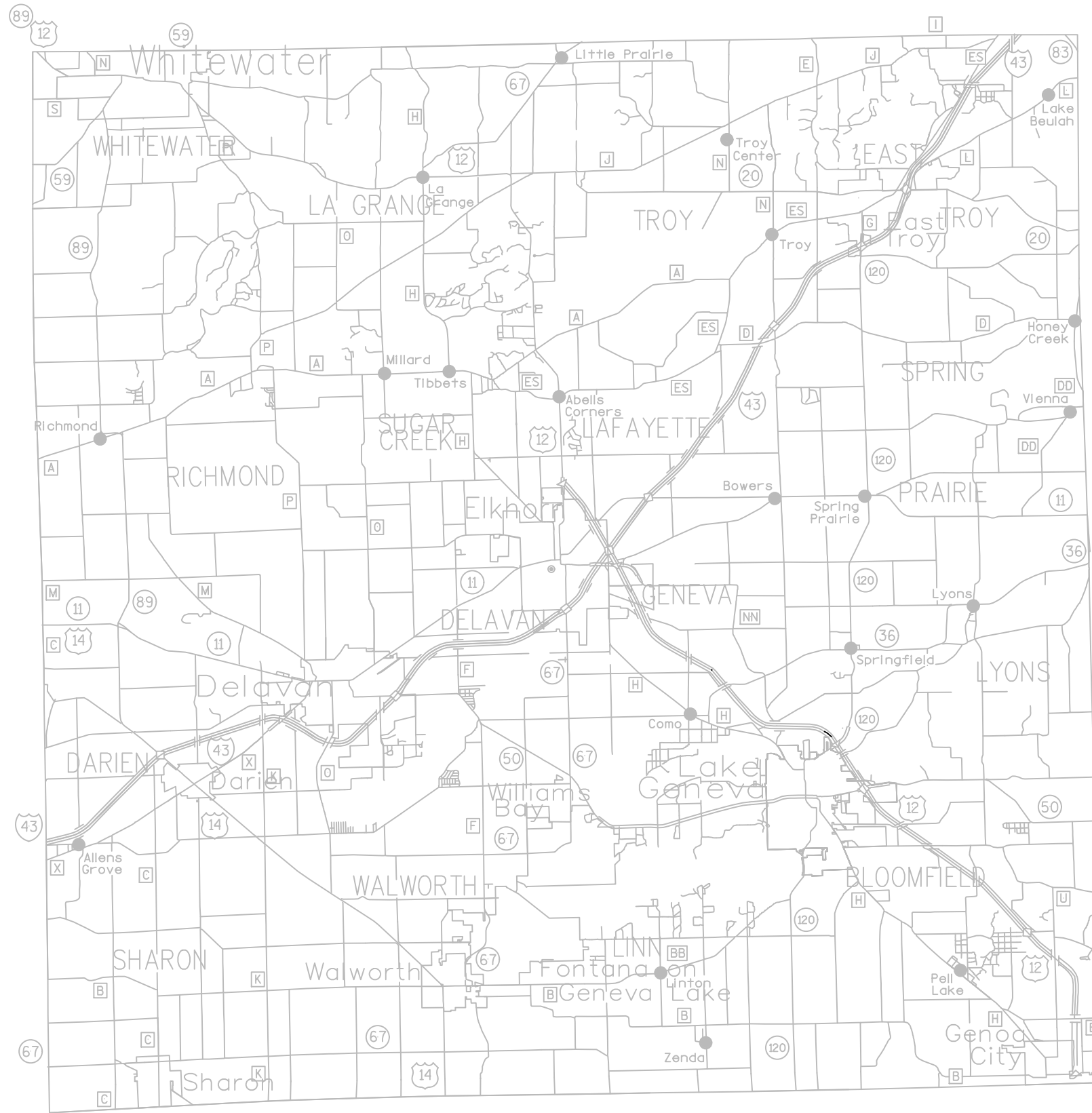
202 STH 145 (ROUNDABOUT)
@ USH 45 SB (ON/OFF) RAMP
INTERCHANGE

201 STH 145 (ROUNDABOUT)
@ USH 45 NB (ON/OFF) RAMP
INTERCHANGE

204A STH 145 (ROUNDABOUT)
@ IH 41 SB (ON/OFF) RAMP
INTERCHANGE

204 STH 145 (ROUNDABOUT)
@ IH 41 NB (ON/OFF) RAMP
INTERCHANGE

EPOXY PAVEMENT MARKING 2022

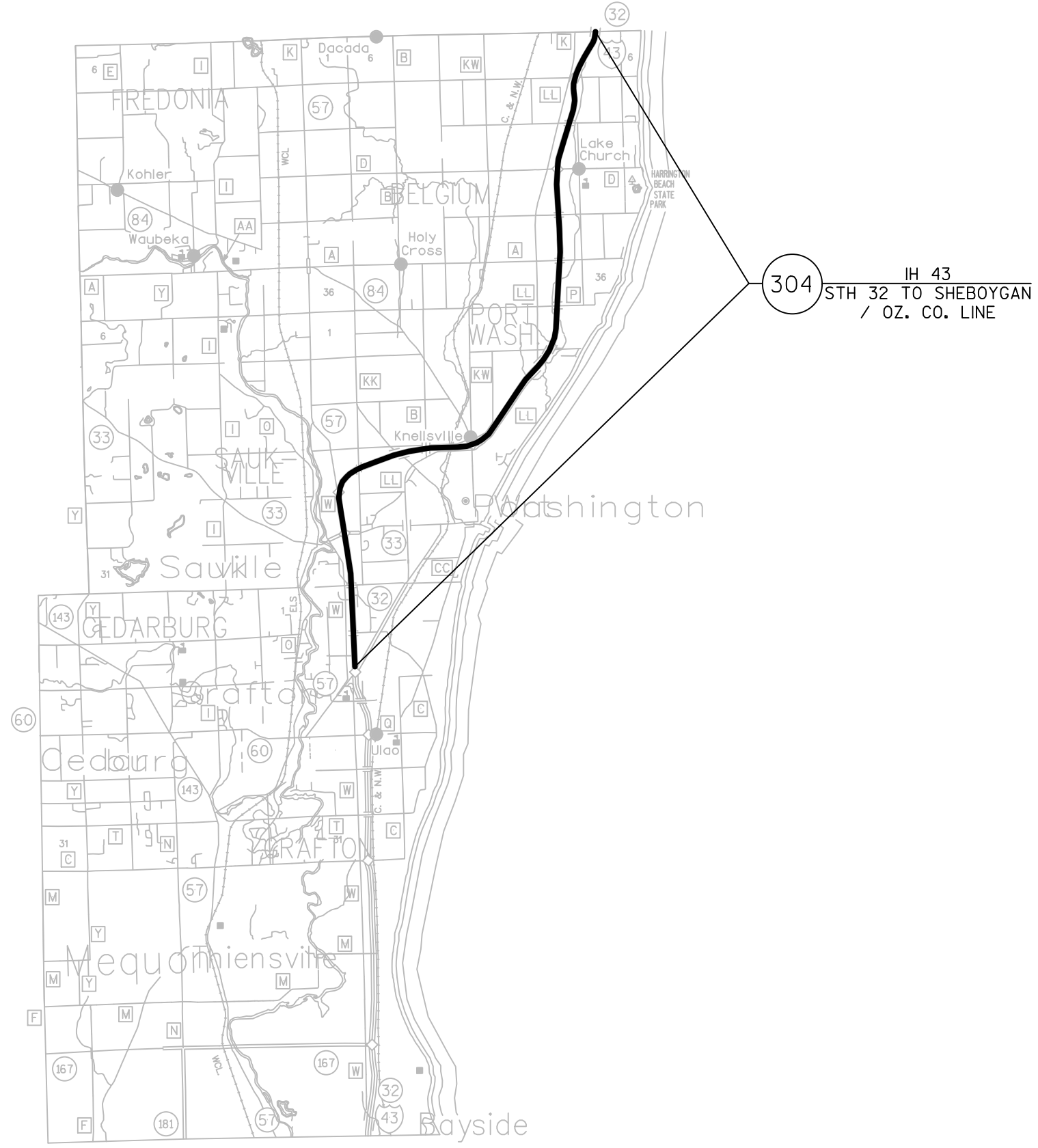


CURRENTLY:
 NO PAVEMENT MARKING
 HWY SECTIONS IN THIS
 COUNTY

EPOXY PAVEMENT MARKING 2022

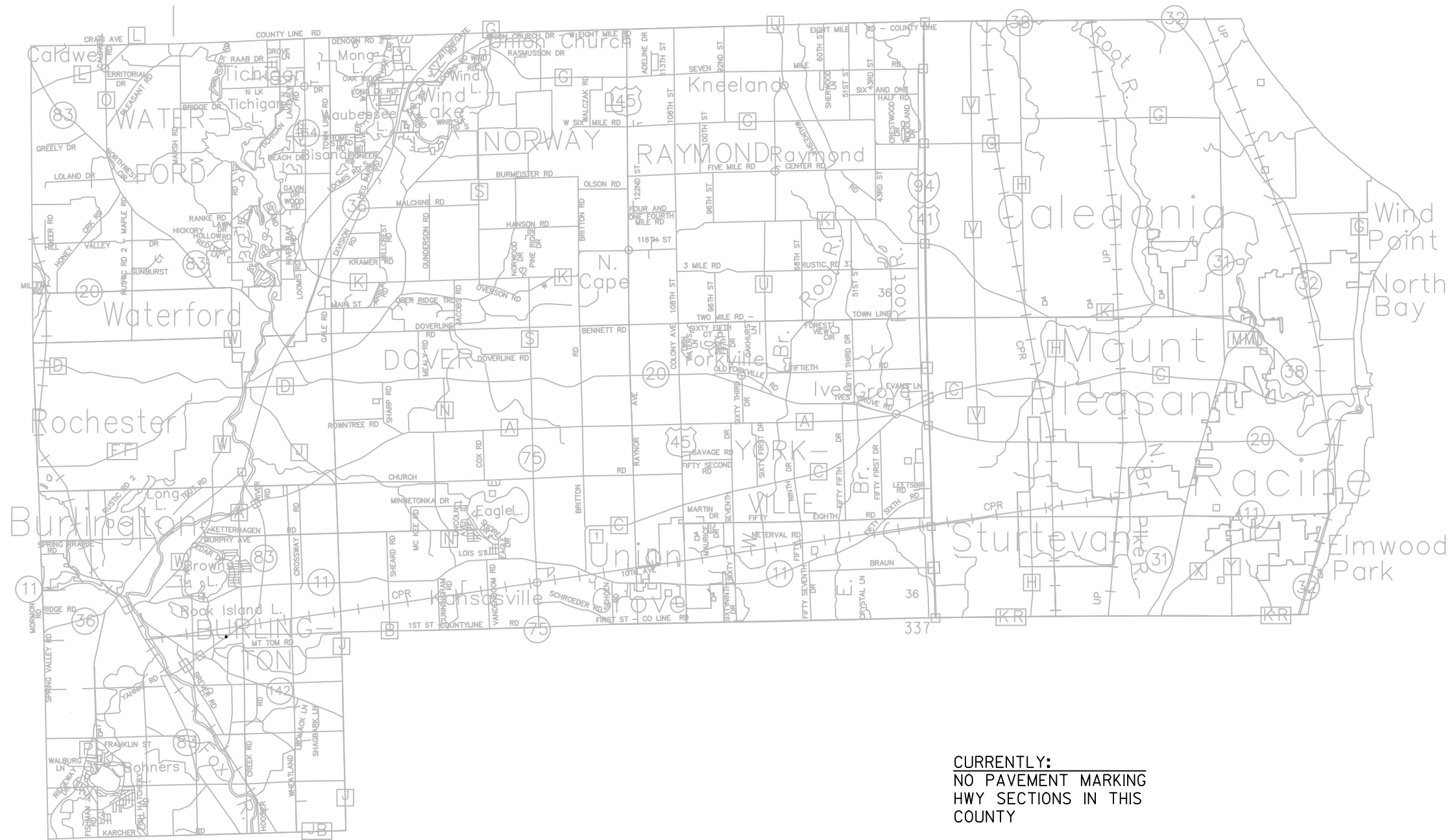
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2



PROJECT NO:1000-77-22	HWY:VARIOUS HWYS	COUNTY:OZAUKEE	OVERVIEW - OZAUKEE COUNTY	SHEET	E
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EPOXY PAVEMENT MARKING 2022

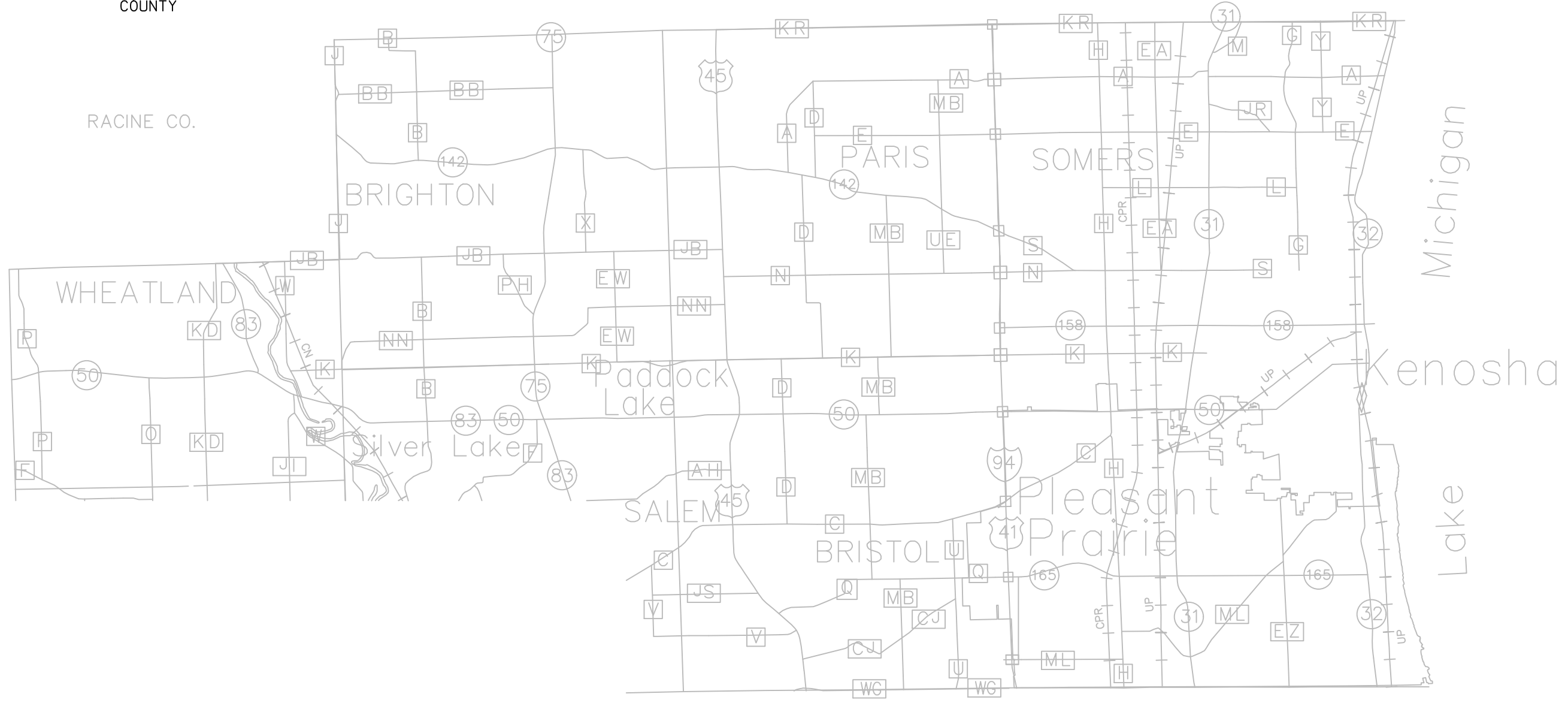


CURRENTLY:
NO PAVEMENT MARKING
HWY SECTIONS IN THIS
COUNTY

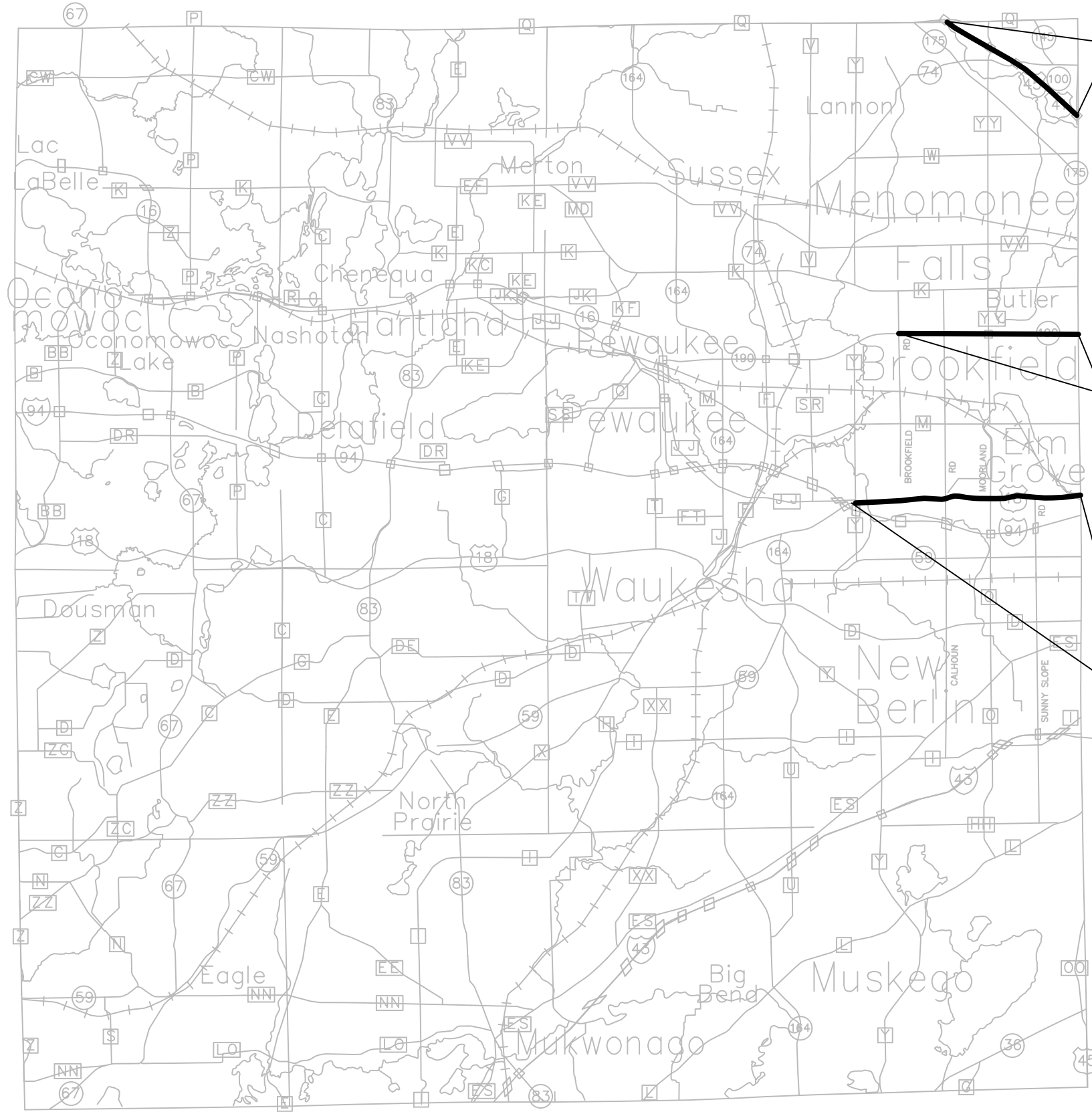
EPOXY PAVEMENT MARKING 2022



CURRENTLY:
NO PAVEMENT MARKING
HWY SECTIONS IN THIS
COUNTY



EPOXY PAVEMENT MARKING 2022



305 IH 41
 STH 145 INTERCHANGE
 TO
 CTH Q INTERCHANGE

104 STH 190
 BROOKFIELD RD
 TO
 124TH ST

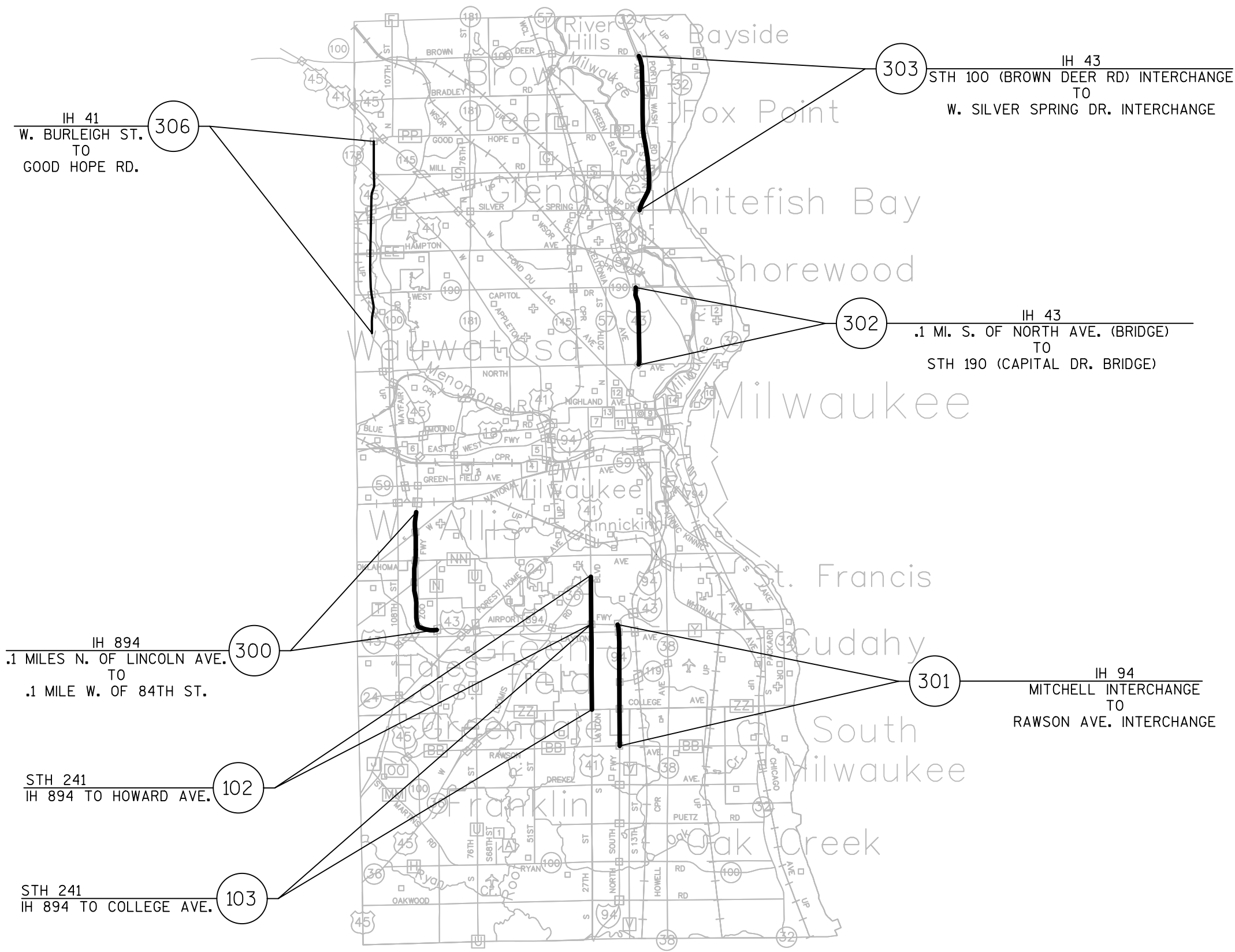
105 USH 18
 CTH Y (BARKER RD)
 TO
 124TH ST

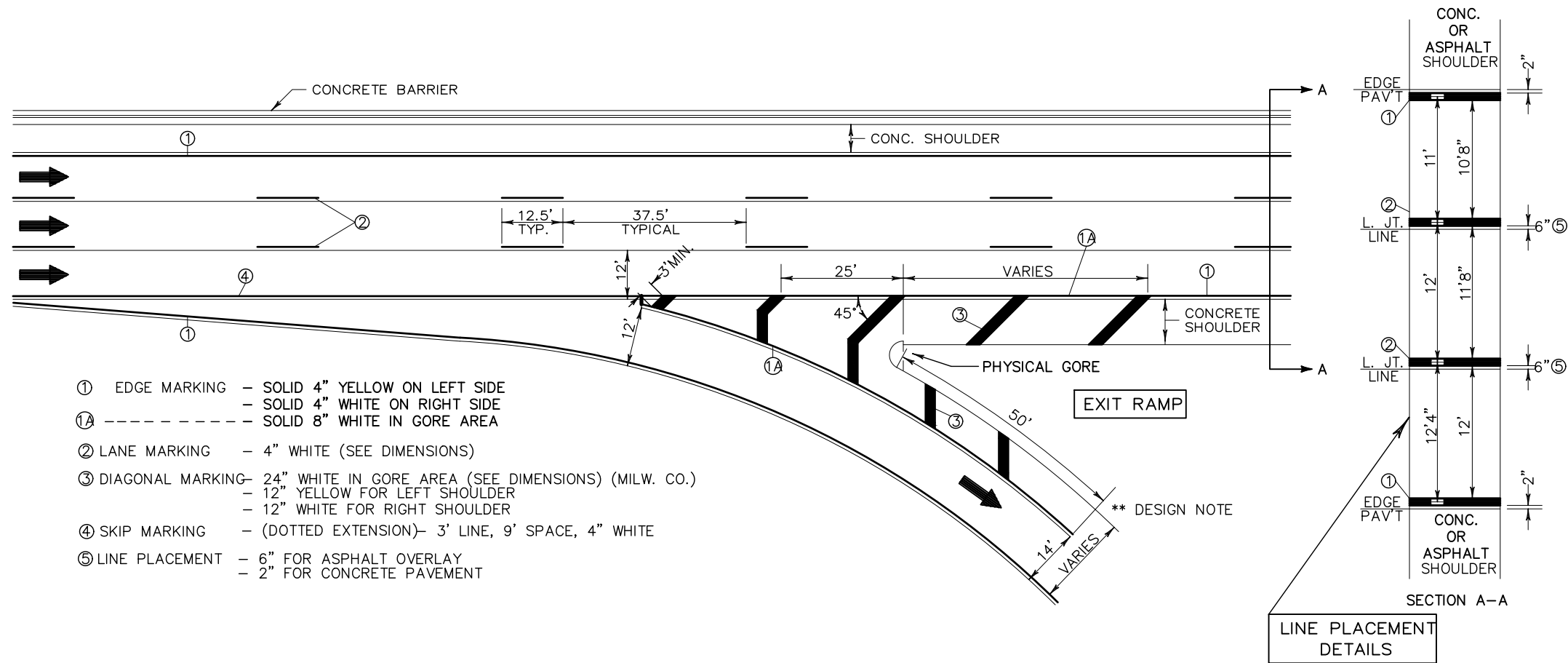


EPOXY PAVEMENT MARKING 2022

2

2

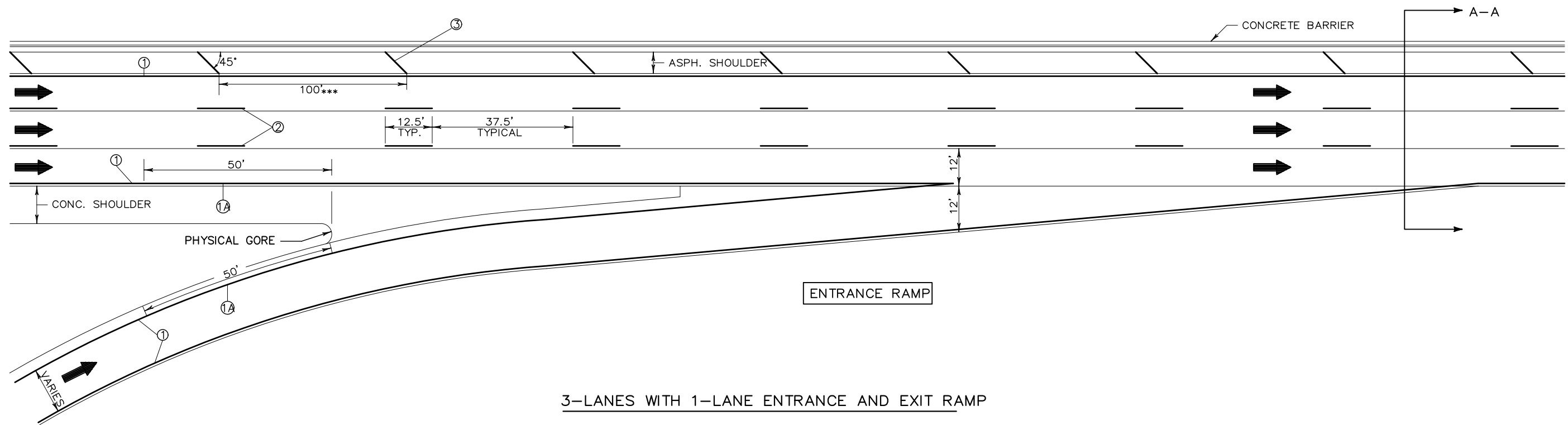
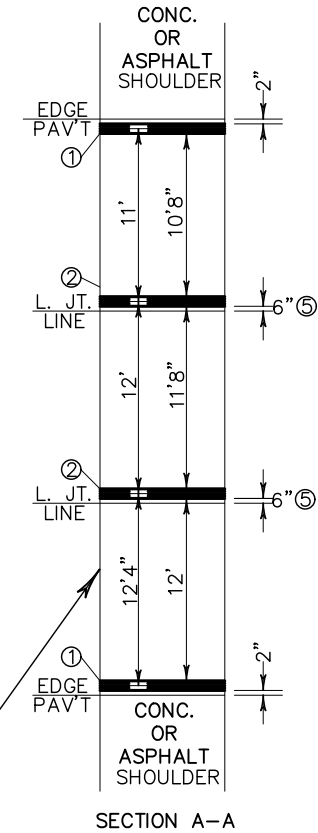




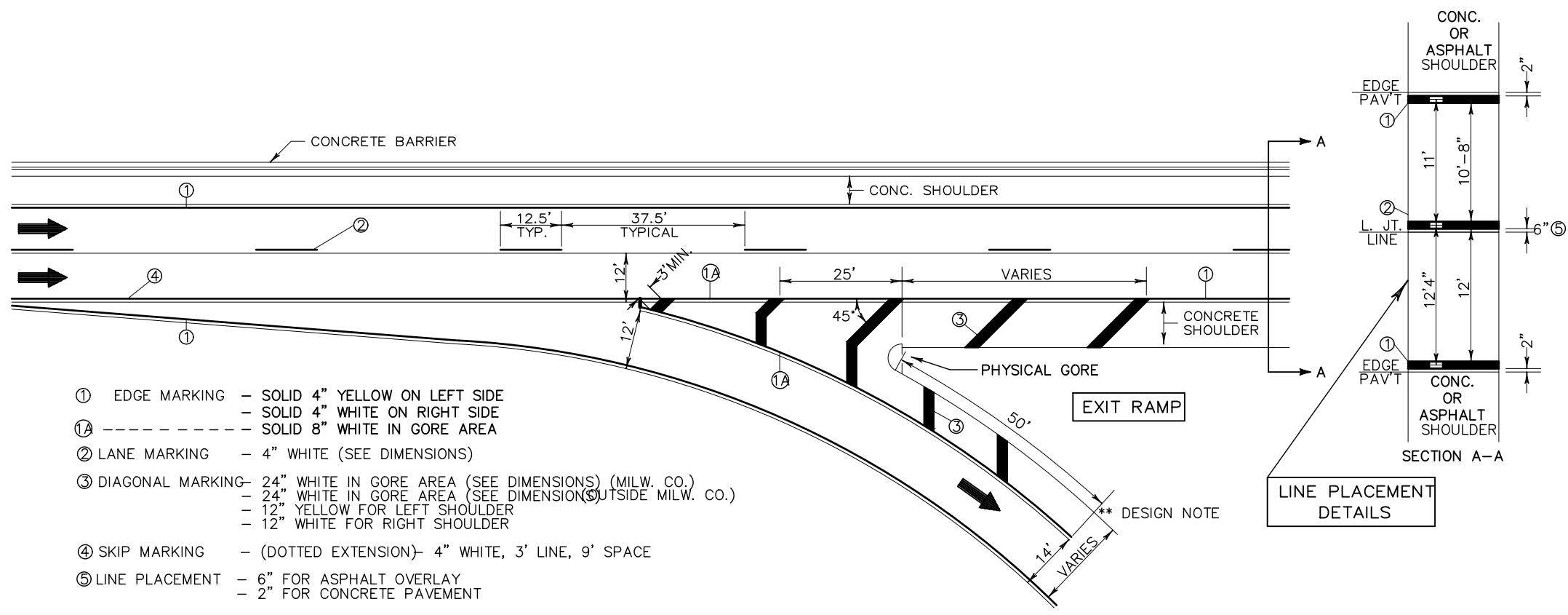
- ① EDGE MARKING - SOLID 4" YELLOW ON LEFT SIDE
- SOLID 4" WHITE ON RIGHT SIDE
- ①A ----- SOLID 8" WHITE IN GORE AREA
- ② LANE MARKING - 4" WHITE (SEE DIMENSIONS)
- ③ DIAGONAL MARKING- 24" WHITE IN GORE AREA (SEE DIMENSIONS) (MILW. CO.)
- 12" YELLOW FOR LEFT SHOULDER
- 12" WHITE FOR RIGHT SHOULDER
- ④ SKIP MARKING - (DOTTED EXTENSION)- 3' LINE, 9' SPACE, 4" WHITE
- ⑤ LINE PLACEMENT - 6" FOR ASPHALT OVERLAY
- 2" FOR CONCRETE PAVEMENT

NOTES:

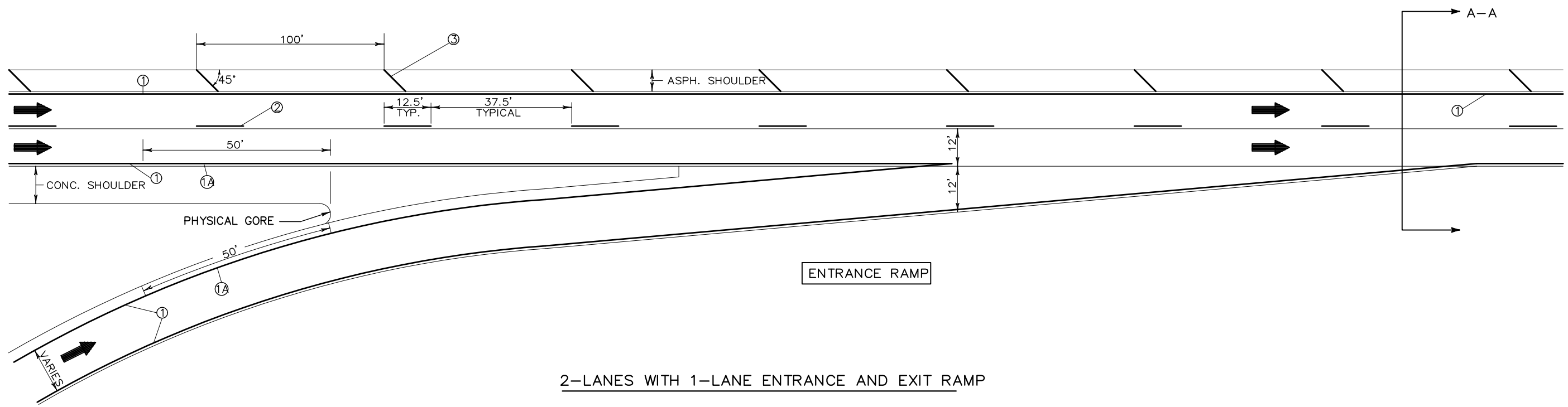
1. THE 12" WIDE DIAGONAL SHOULDER MARKING SHALL BE USED ONLY WHERE THE ASPHALTIC CONCRETE SHOULDER ABUTS ASPHALTIC CONC. PAV'T. IF THERE ARE CONTINUOUS RUMBLE STRIPS, DO NOT USE DIAGONAL SHOULDER MARKING.
2. WHERE THE DOTTED EXTENSION OF THE RIGHT EDGE LINE IS SHOWN ON THE PLAN, IT SHALL BE 4" WIDE, WITH A LINE SKIP PATTERN CONSISTING OF A 3' LONG LINE AND A 9' SKIP.
3. PAVEMENT LANE MARKINGS SHALL BE LOCATED 6" OFF THE LONGITUDINAL JOINT OF THE UNDERLYING CONC. PAVEMENT.
4. ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.
5. SPOTTING FOR PAVEMENT LANE MARKINGS AND EDGE LINES SHALL BE 4"x4" PIECES OF REFLECTORIZED PAV'T MARKING TAPE SPACED AT 50' INTERVALS, INCIDENTAL TO PAV'T MARKING.



3-LANES WITH 1-LANE ENTRANCE AND EXIT RAMP

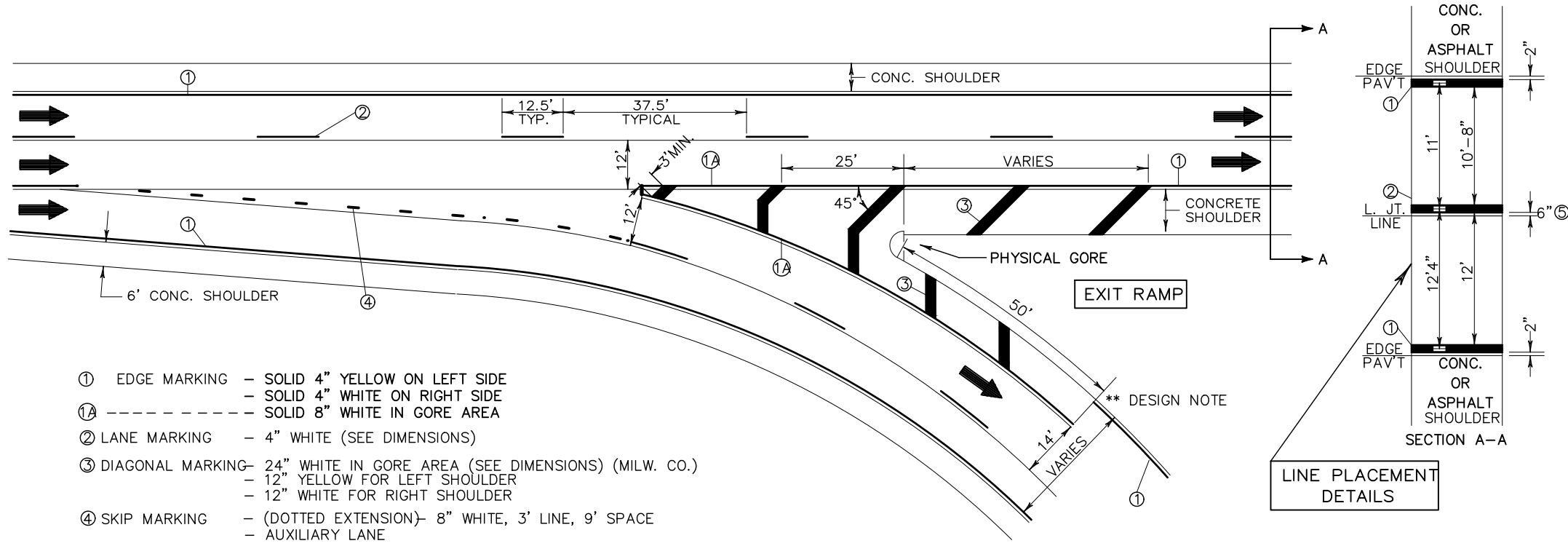


- NOTES:
1. THE 12" WIDE DIAGONAL SHOULDER MARKING SHALL BE USED ONLY WHERE THE ASPHALTIC CONCRETE SHOULDER ABUTS ASPHALTIC CONC. PAV'T. IF THERE ARE CONTINUOUS RUMBLE STRIPS, DO NOT USE DIAGONAL SHOULDER MARKING.
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2-LANES WITH 1-LANE ENTRANCE AND EXIT RAMP

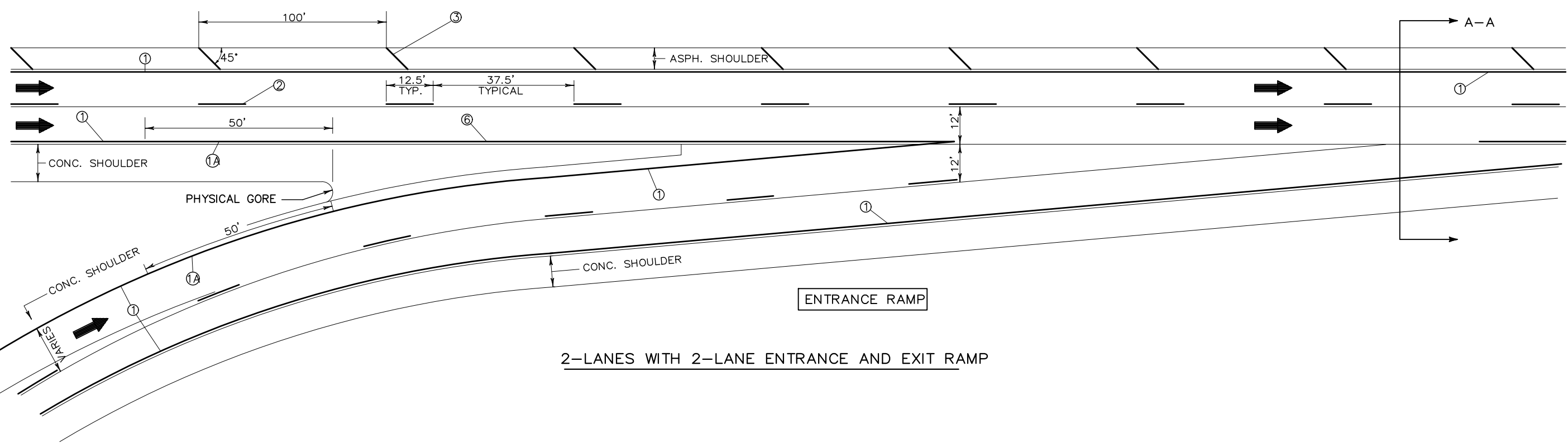
GORES, FREEWAYS, & EXPRESSWAYS (EPOXY)



- NOTES:
1. THE 12" WIDE DIAGONAL SHOULDER MARKING SHALL BE USED ONLY WHERE THE ASPHALTIC CONCRETE SHOULDER ABUTS ASPHALTIC CONC. PAV'T. IF THERE ARE CONTINUOUS RUMBLE STRIPS, DO NOT USE DIAGONAL SHOULDER MARKING.
 2. WHERE THE DOTTED EXTENSION OF THE RIGHT EDGE LINE IS SHOWN ON THE PLAN, IT SHALL BE 8" WIDE, WITH A LINE SKIP PATTERN CONSISTING OF A 3' LONG LINE AND A 9' SKIP.
 3. PAVEMENT LANE MARKINGS SHALL BE LOCATED 6" OFF THE LONGITUDINAL JOINT OF THE UNDERLYING CONC. PAVEMENT.
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- ① EDGE MARKING - SOLID 4" YELLOW ON LEFT SIDE
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- ② LANE MARKING - 4" WHITE (SEE DIMENSIONS)
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- 12" YELLOW FOR LEFT SHOULDER
- 12" WHITE FOR RIGHT SHOULDER
- ④ SKIP MARKING - (DOTTED EXTENSION)- 8" WHITE, 3' LINE, 9' SPACE
- AUXILIARY LANE
- ⑤ LINE PLACEMENT - 6" FOR ASPHALT OVERLAY
- 2" FOR CONCRETE PAVEMENT

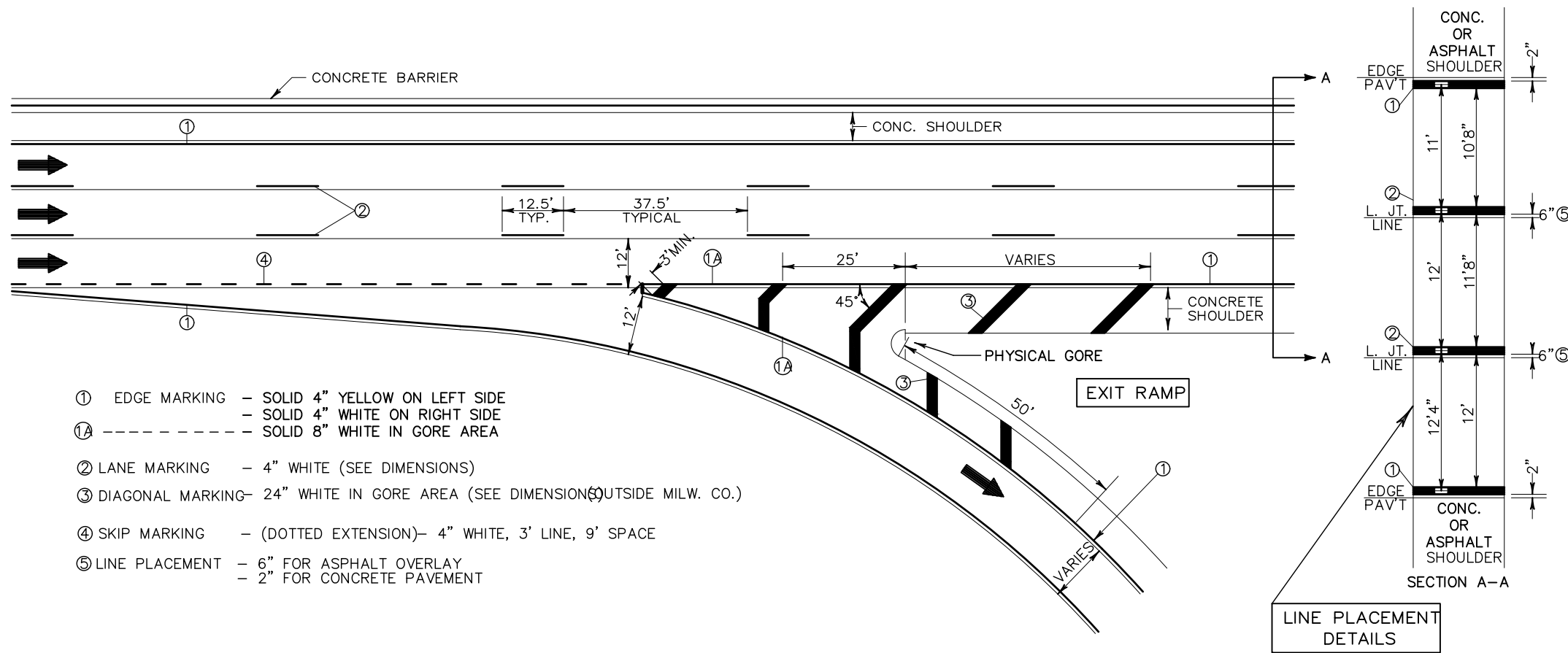
LINE PLACEMENT DETAILS



2-LANES WITH 2-LANE ENTRANCE AND EXIT RAMP

GORES, FREEWAYS, & EXPRESSWAYS (EPOXY)

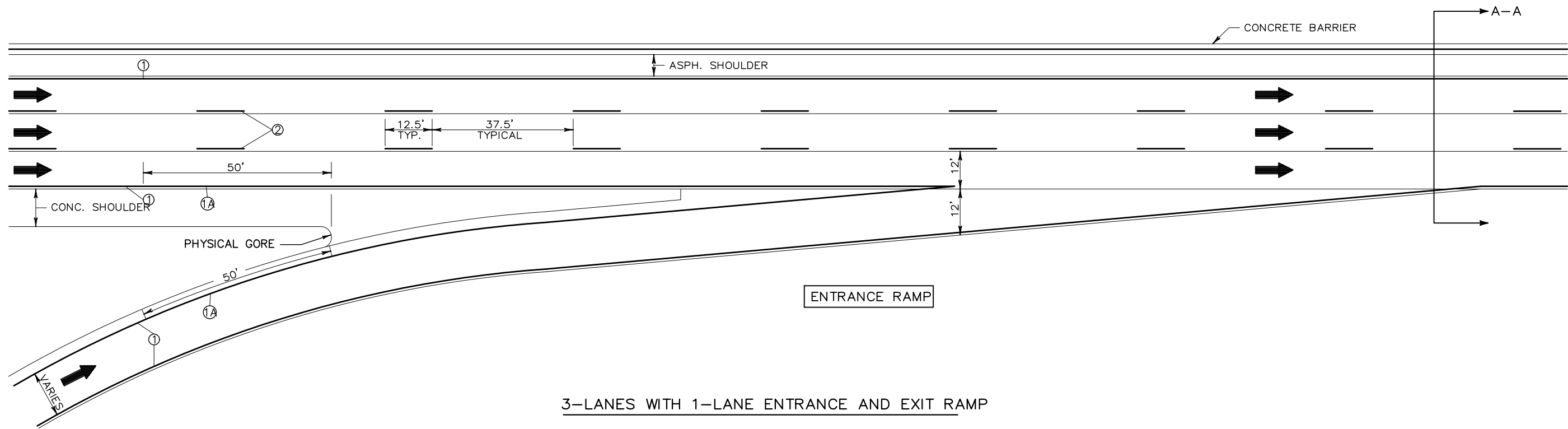
RACINE, KENOSHA, WALWORTH, WAUKESHA,
OZAUKEE & WASHINGTON
COUNTIES



NOTES:

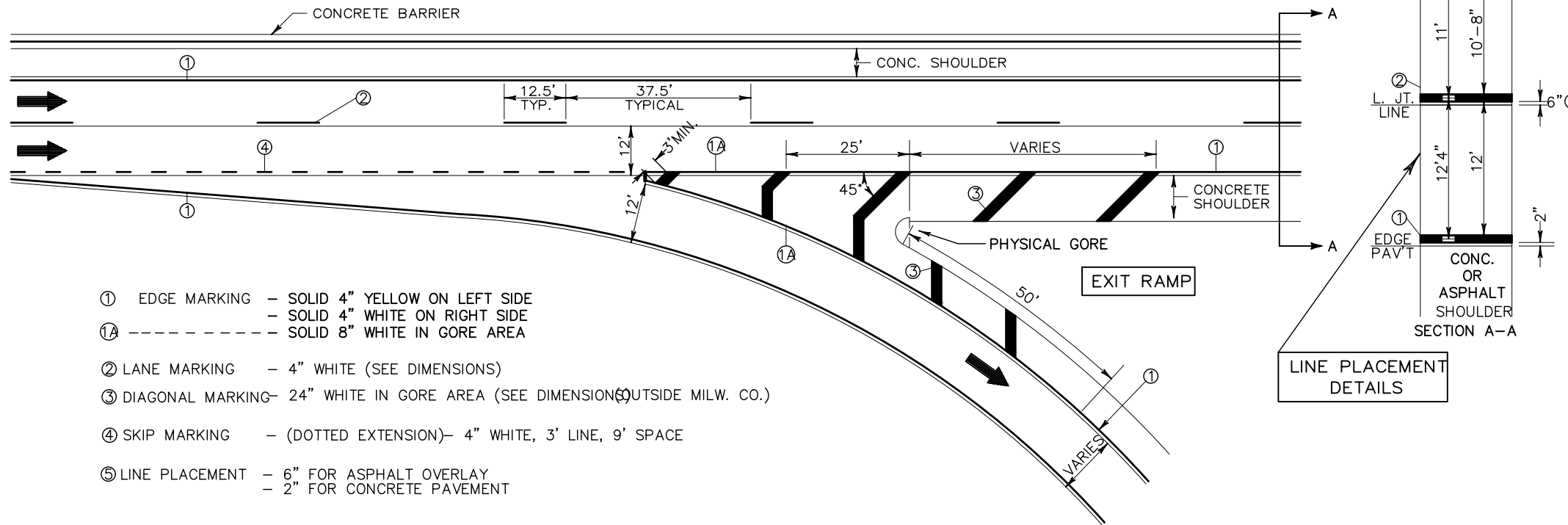
1. WHERE THE DOTTED EXTENSION OF THE RIGHT EDGE LINE IS SHOWN ON THE PLAN, IT SHALL BE 4" WIDE, WITH A LINE SKIP PATTERN CONSISTING OF A 3' LONG LINE AND A 9' SKIP.
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3. ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.
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- SOLID 4" WHITE ON RIGHT SIDE
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- ② LANE MARKING - 4" WHITE (SEE DIMENSIONS)
- ③ DIAGONAL MARKING- 24" WHITE IN GORE AREA (SEE DIMENSIONS) (OUTSIDE MILW. CO.)
- ④ SKIP MARKING - (DOTTED EXTENSION)- 4" WHITE, 3' LINE, 9' SPACE
- ⑤ LINE PLACEMENT - 6" FOR ASPHALT OVERLAY
- 2" FOR CONCRETE PAVEMENT

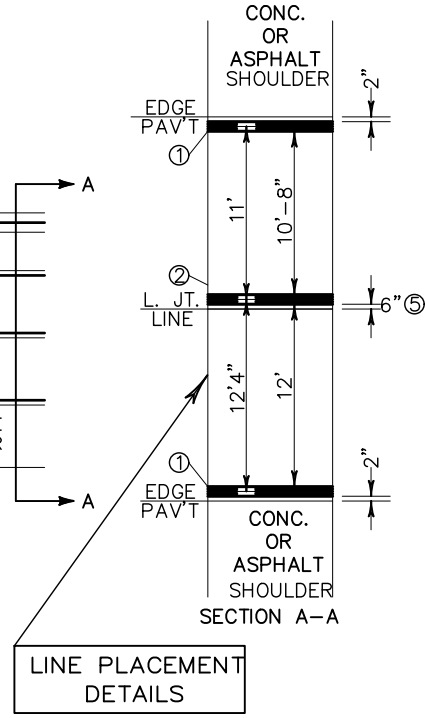


3-LANES WITH 1-LANE ENTRANCE AND EXIT RAMP

RACINE, KENOSHA, WALWORTH, WAUKESHA,
OZAUKEE & WASHINGTON
COUNTIES

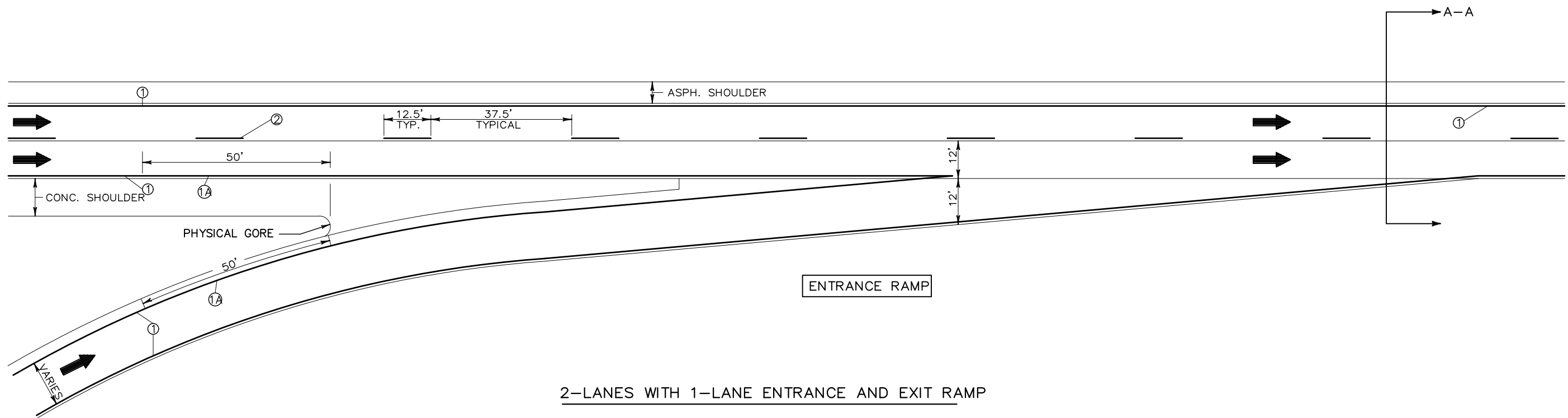


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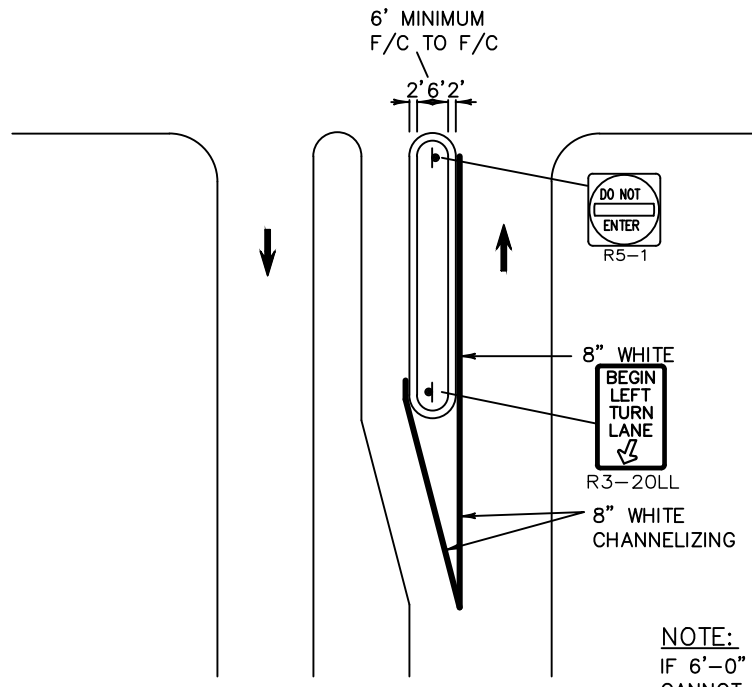


NOTES:

1. WHERE THE DOTTED EXTENSION OF THE RIGHT EDGE LINE IS SHOWN ON THE PLAN, IT SHALL BE 4" WIDE, WITH A LINE SKIP PATTERN CONSISTING OF A 3' LONG LINE AND A 9' SKIP.
2. PAVEMENT LANE MARKINGS SHALL BE LOCATED 6" OFF THE LONGITUDINAL JOINT OF THE UNDERLYING CONC. PAVEMENT.
3. ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.
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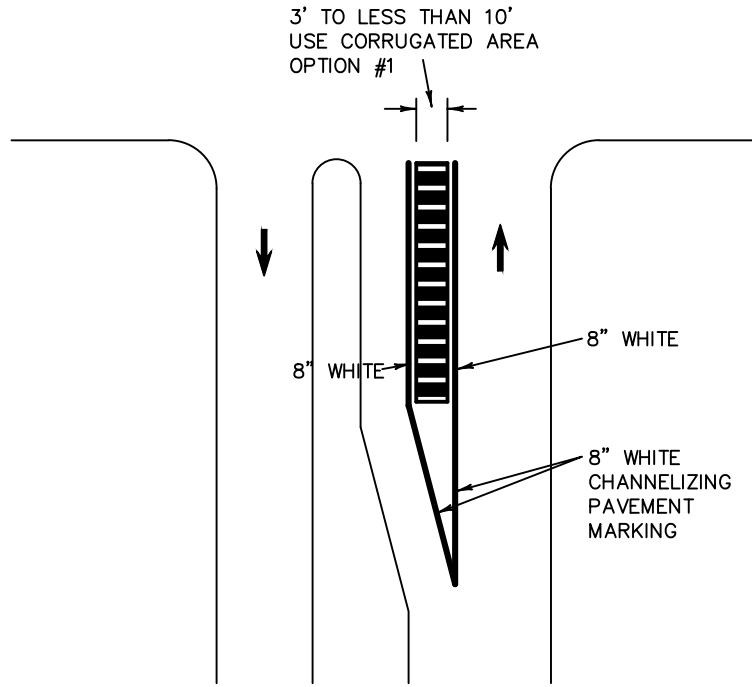


2-LANES WITH 1-LANE ENTRANCE AND EXIT RAMP

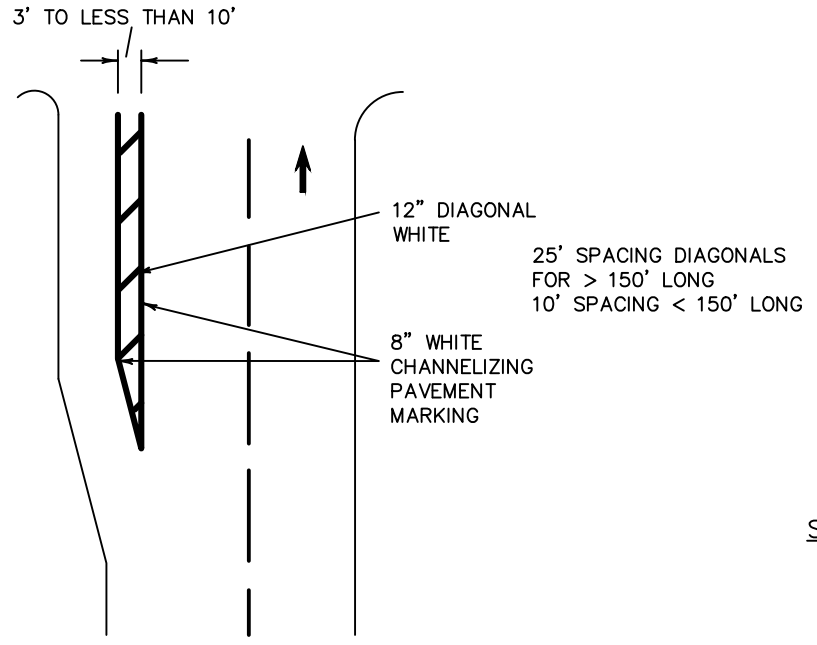


NOTE:
IF 6'-0" F/C-F/C
CANNOT BE PROVIDED
THAN USE CORRUGATED MEDIAN

① 10' OR GREATER
CURB & GUTTER LEFT TURN SLOT



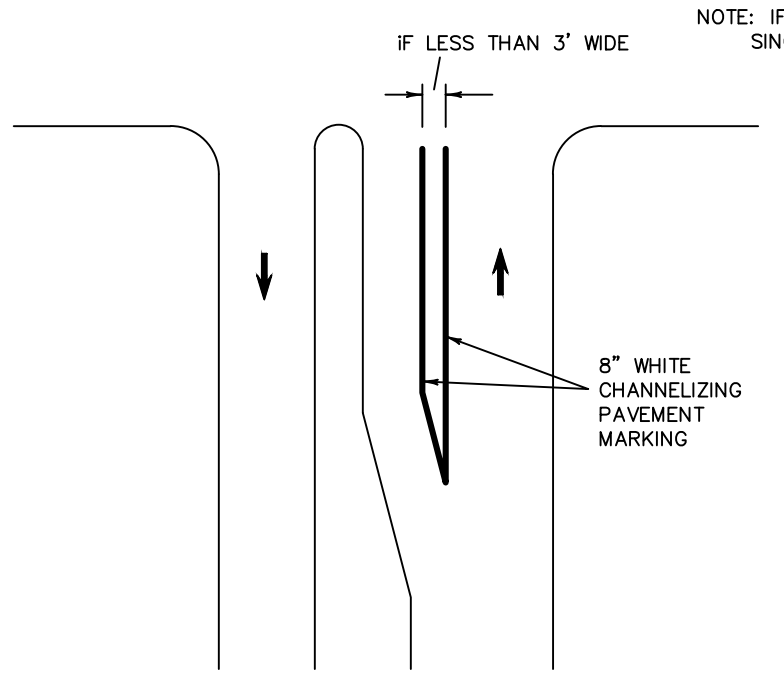
② 3' TO 10' OPTION #2



④ 3' TO 10' OPTION #1
PREFERRED OVER OTION #2

SLOTTED LEFT TURN LANE TREATMENT

- ① 10' OR GREATER
- ② 3' TO 10' OPTION #2
- ③ 3' TO 10' OPTION #1
- ④ LESS THAN 3'-0"

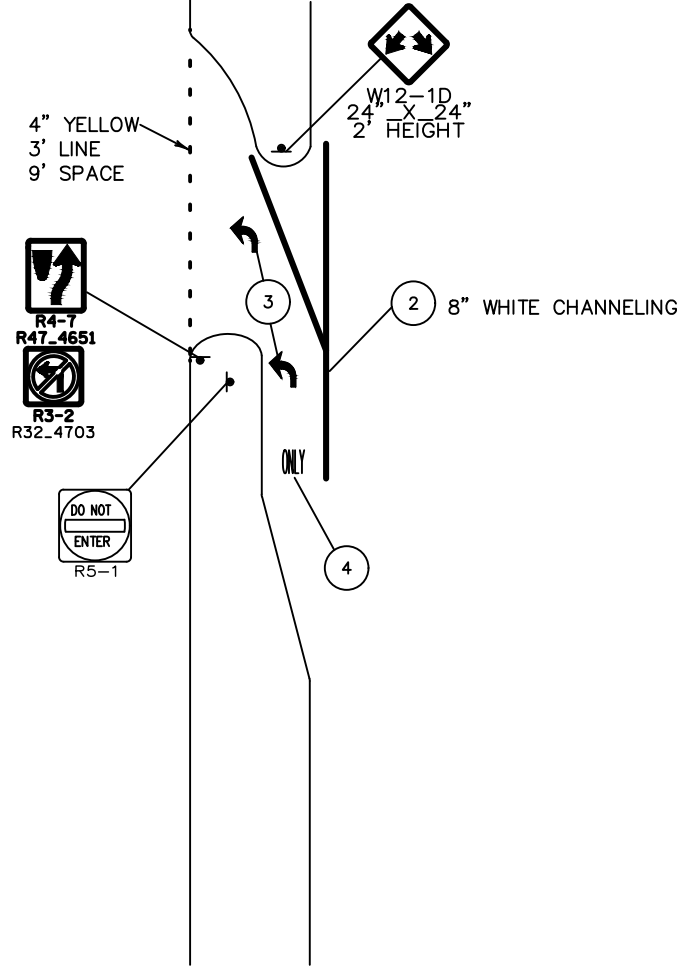
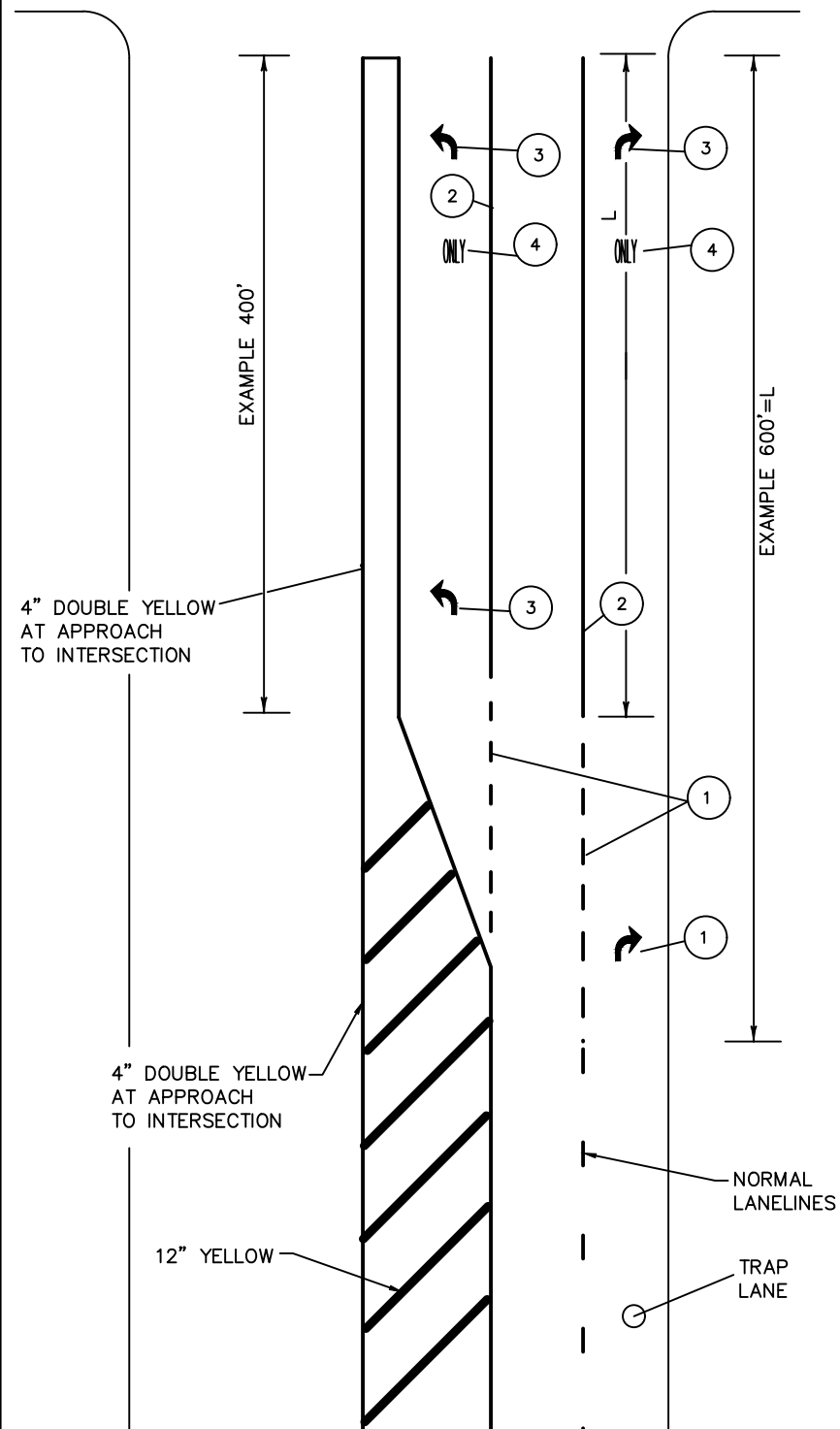


④ LESS THAN 3' WIDE

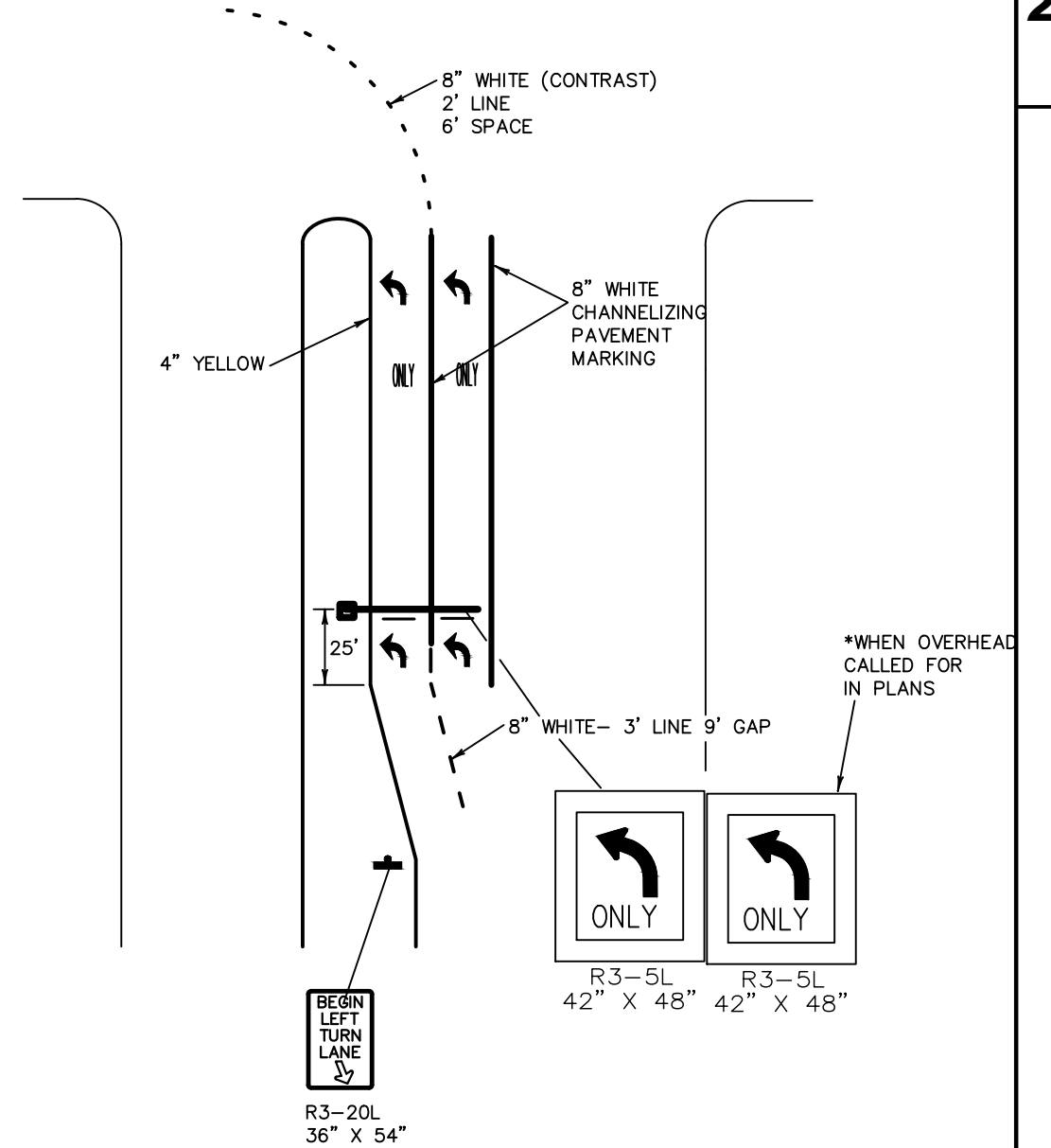
PAVEMENT MARKING

SHEET 1 OF 2

TWO SETS MAX. OF ARROWS/ONLYS



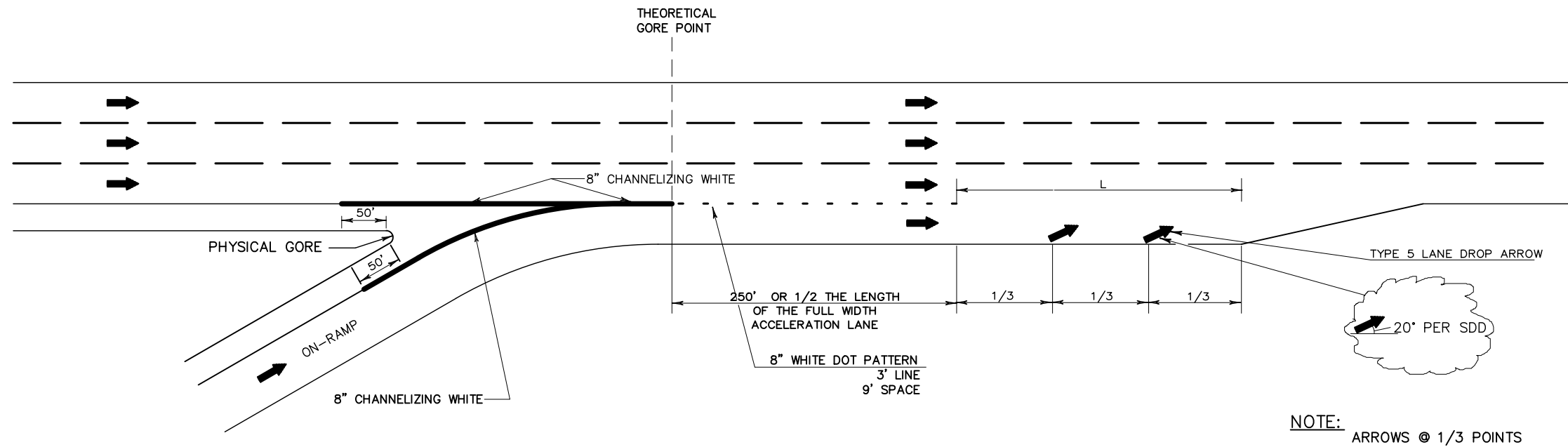
TWO SETS MAX. OF ARROWS/ONLYS



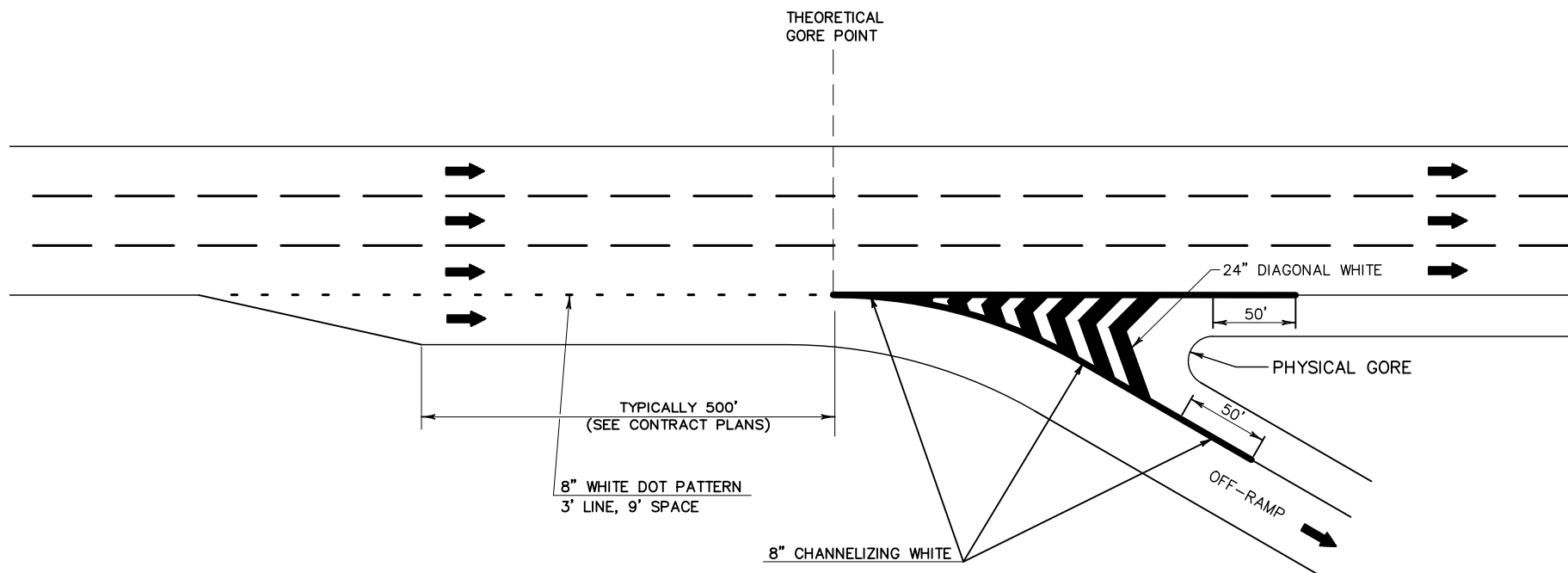
- ① 8" WHITE (3' LINE, 9' GAP)
- ① 8" SOLID WHITE
- ① ARROW TYPE 2
- ① WORD

*CONTACT TRAFFIC OPERATIONS TOM HEYDEL FOR SPEC OR WEBSITE
http://dotnet/dtid_bho/extranet/manuals/index.shtml
 traffic hot topics reference list/special provisions

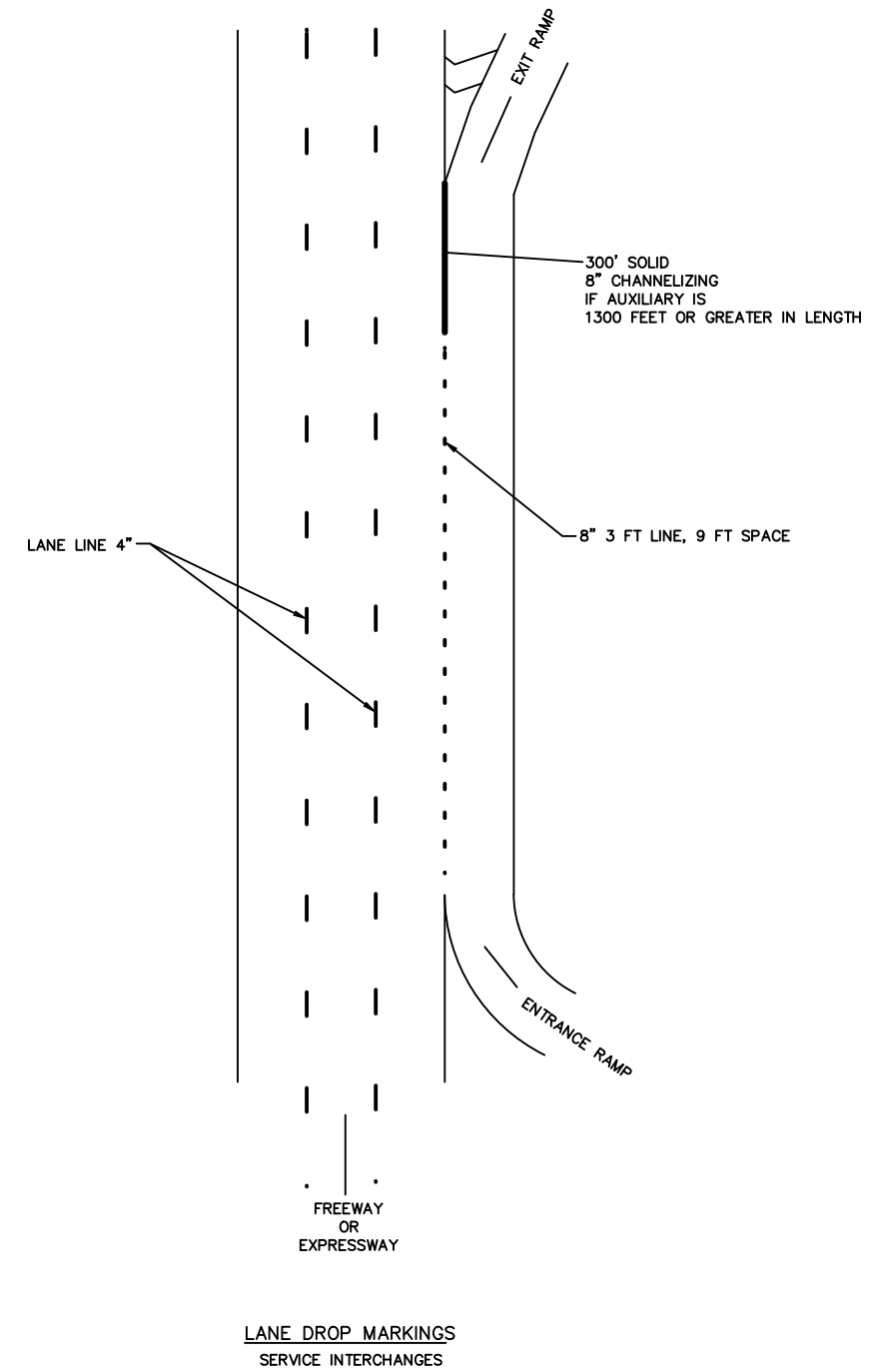
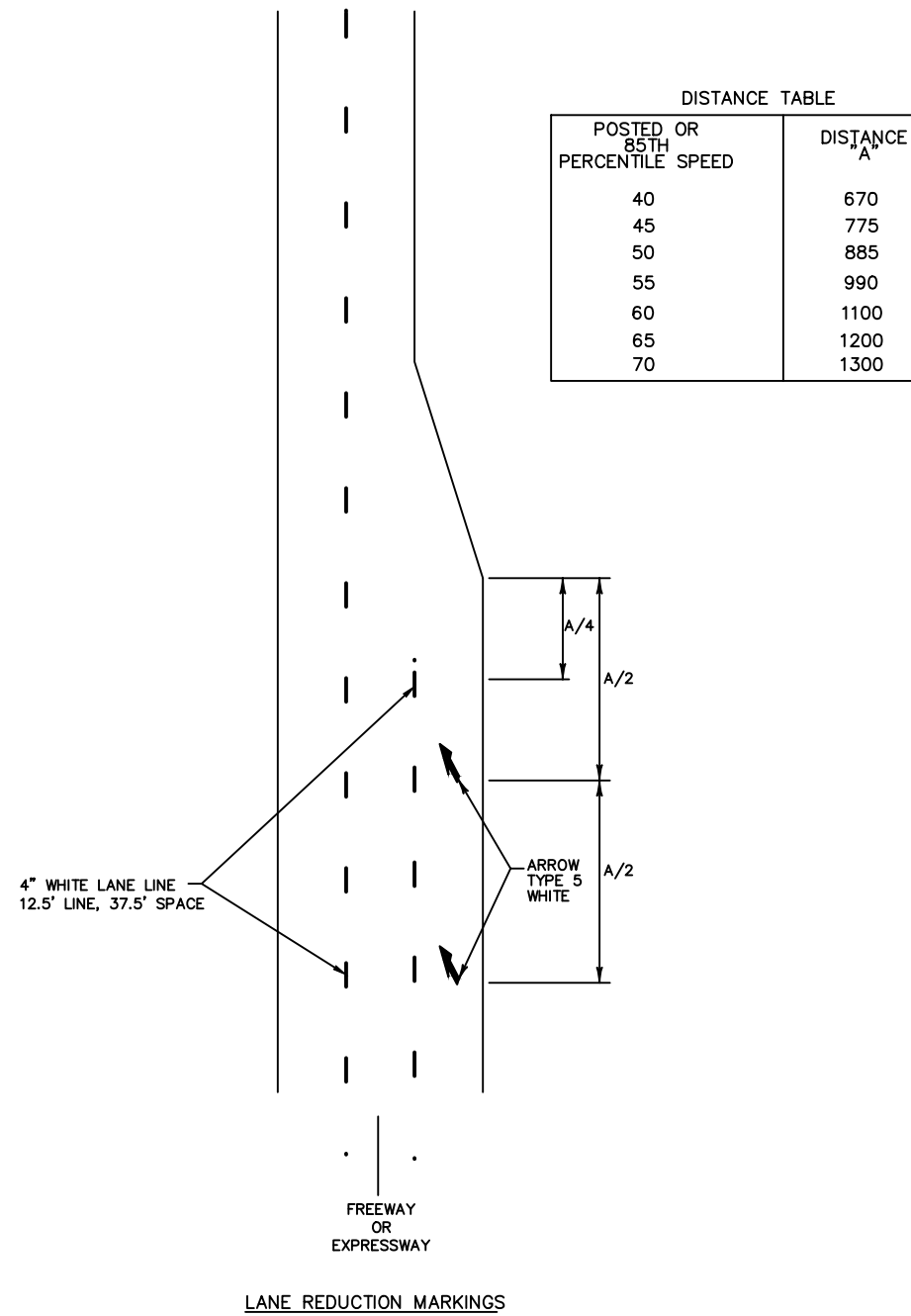
**SEE TEOPS 3-10-1 MATRIX OF MATERIALS FOR TYPE OF PAVEMENT MARKING PRODUCT TO USE
 CONTACT TOM HEYDEL

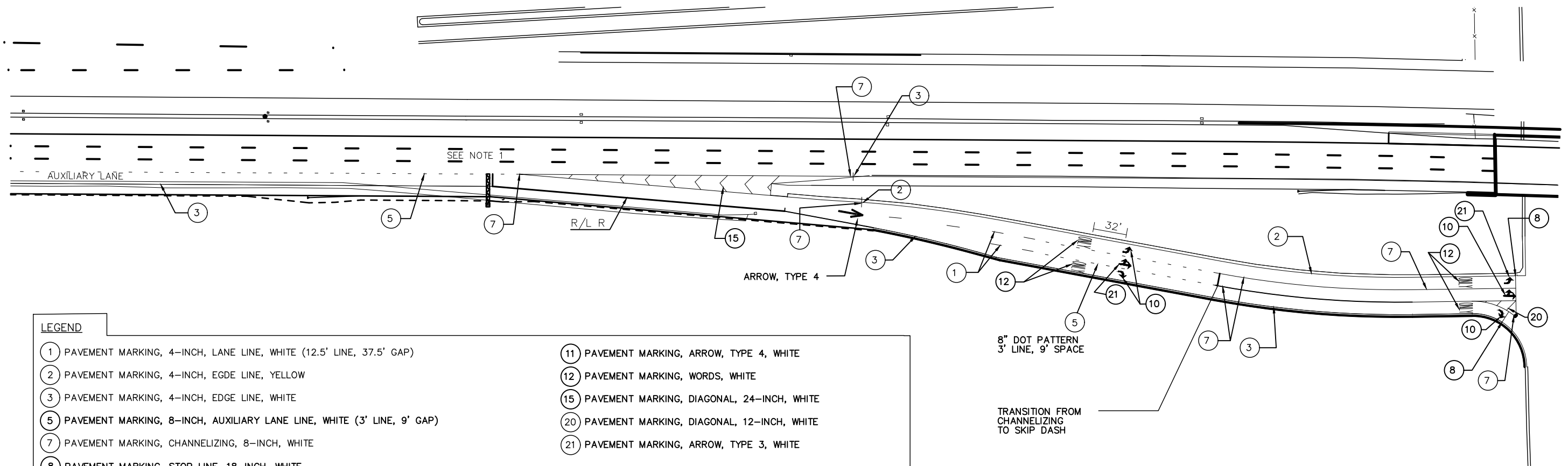


SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL ON-RAMP



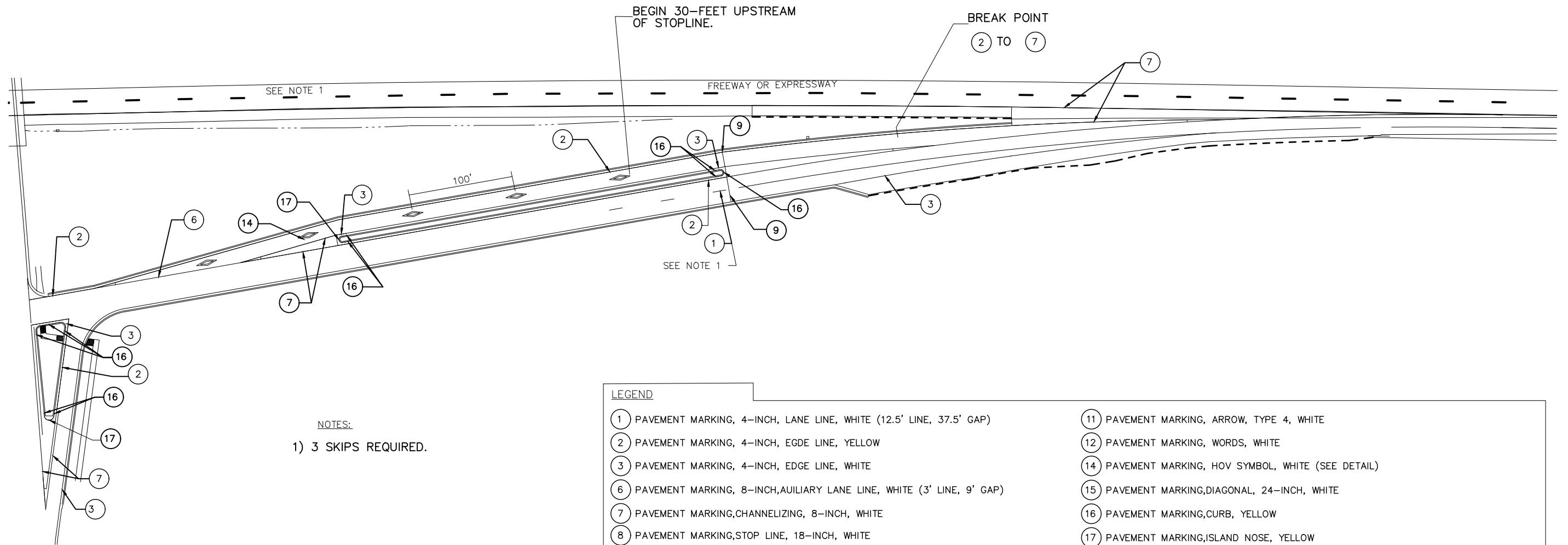
SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL OFF-RAMP





LEGEND	
1	PAVEMENT MARKING, 4-INCH, LANE LINE, WHITE (12.5' LINE, 37.5' GAP)
2	PAVEMENT MARKING, 4-INCH, EDGE LINE, YELLOW
3	PAVEMENT MARKING, 4-INCH, EDGE LINE, WHITE
5	PAVEMENT MARKING, 8-INCH, AUXILIARY LANE LINE, WHITE (3' LINE, 9' GAP)
7	PAVEMENT MARKING, CHANNELIZING, 8-INCH, WHITE
8	PAVEMENT MARKING, STOP LINE, 18-INCH, WHITE
10	PAVEMENT MARKING, ARROW, TYPE 2, WHITE
11	PAVEMENT MARKING, ARROW, TYPE 4, WHITE
12	PAVEMENT MARKING, WORDS, WHITE
15	PAVEMENT MARKING, DIAGONAL, 24-INCH, WHITE
20	PAVEMENT MARKING, DIAGONAL, 12-INCH, WHITE
21	PAVEMENT MARKING, ARROW, TYPE 3, WHITE

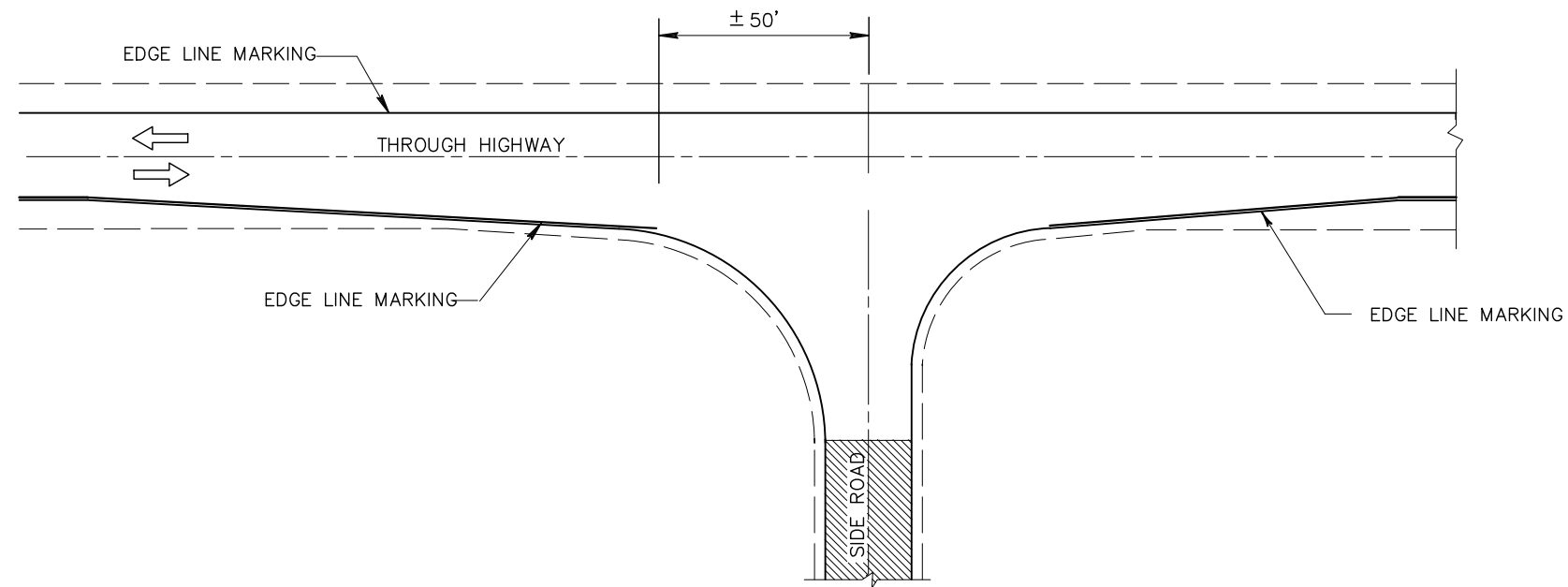
TYPICAL OFF-RAMP PAVEMENT MARKING WITH MULTIPLE LANES



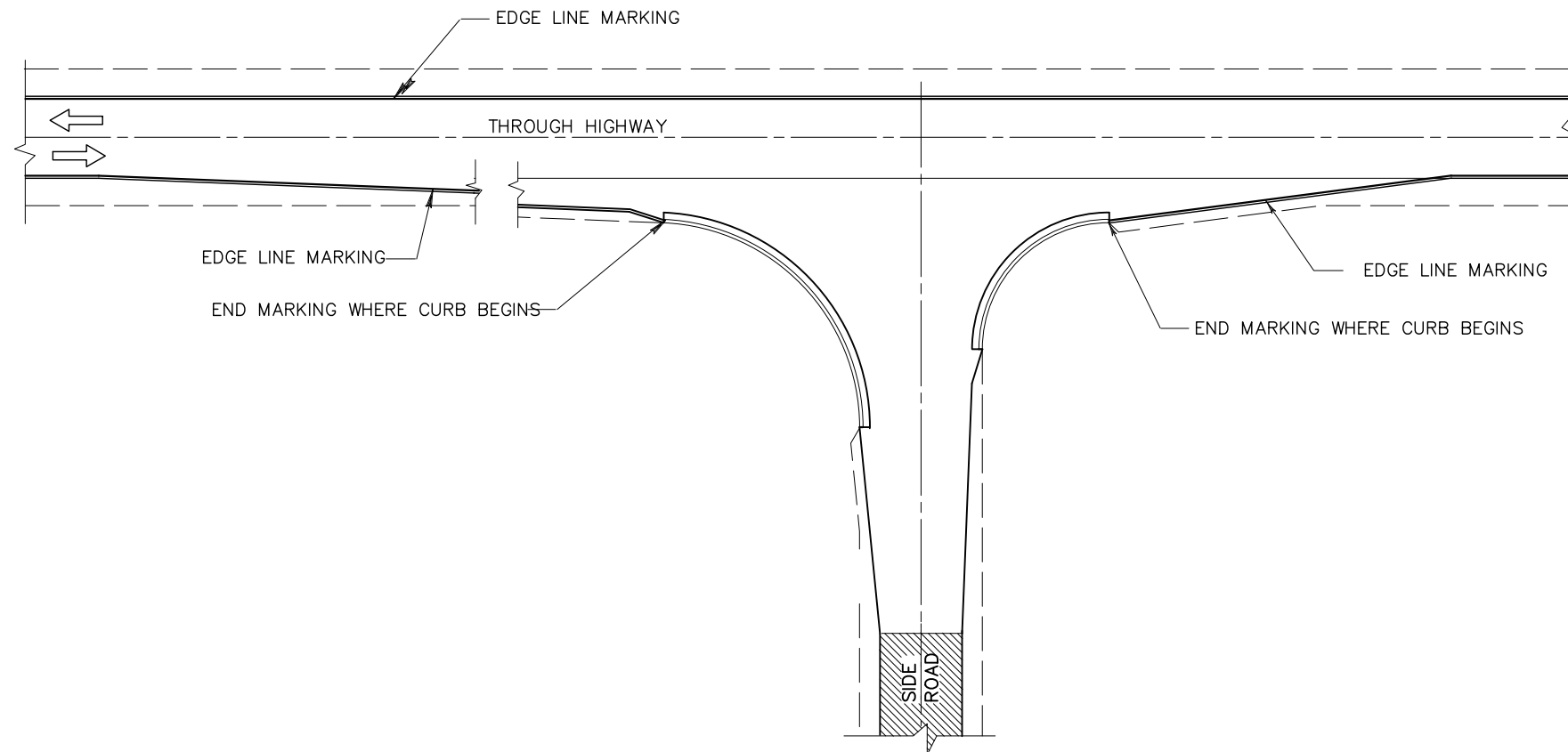
NOTES:
1) 3 SKIPS REQUIRED.

LEGEND	
①	PAVEMENT MARKING, 4-INCH, LANE LINE, WHITE (12.5' LINE, 37.5' GAP)
②	PAVEMENT MARKING, 4-INCH, EGDE LINE, YELLOW
③	PAVEMENT MARKING, 4-INCH, EDGE LINE, WHITE
④	PAVEMENT MARKING, 8-INCH, AULIARY LANE LINE, WHITE (3' LINE, 9' GAP)
⑤	PAVEMENT MARKING, CHANNELIZING, 8-INCH, WHITE
⑥	PAVEMENT MARKING, STOP LINE, 18-INCH, WHITE
⑦	PAVEMENT MARKING, STOP LINE, 18-INCH, WHITE
⑧	PAVEMENT MARKING, ARROW, TYPE 2, WHITE
⑨	PAVEMENT MARKING, ARROW, TYPE 4, WHITE
⑩	PAVEMENT MARKING, WORDS, WHITE
⑪	PAVEMENT MARKING, HOV SYMBOL, WHITE (SEE DETAIL)
⑫	PAVEMENT MARKING, DIAGONAL, 24-INCH, WHITE
⑬	PAVEMENT MARKING, CURB, YELLOW
⑭	PAVEMENT MARKING, ISLAND NOSE, YELLOW

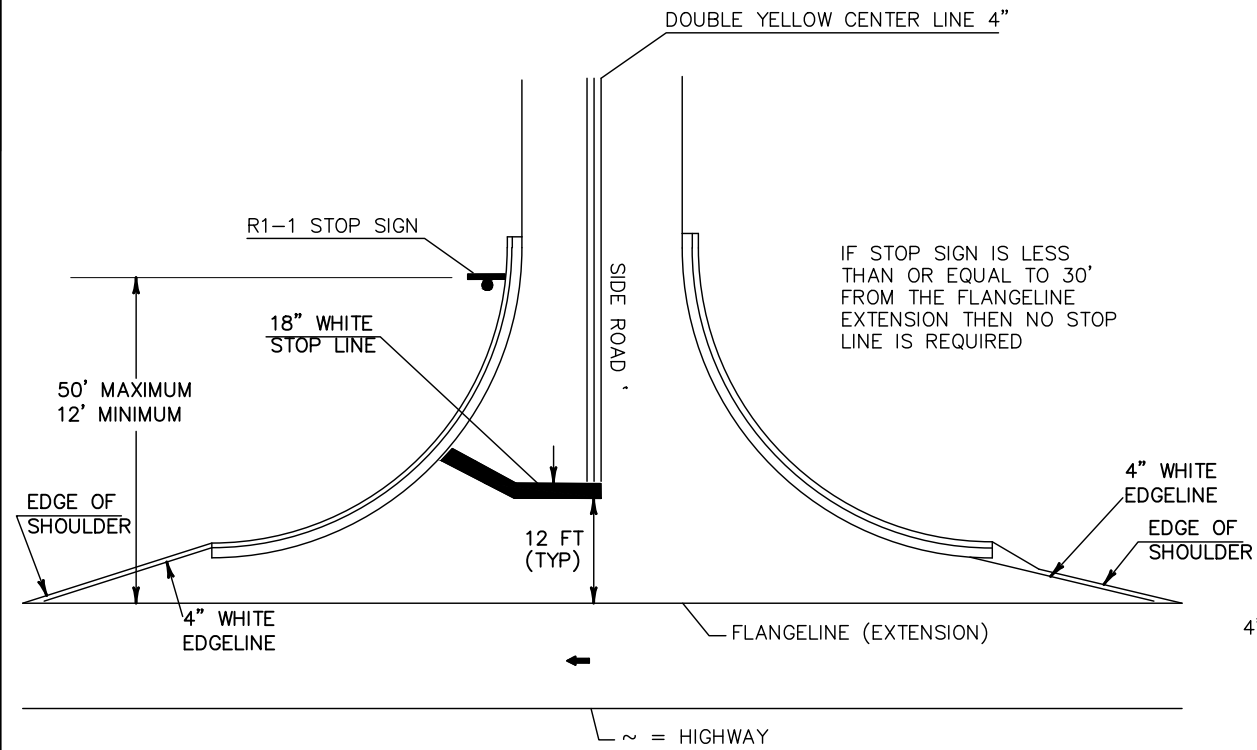
TYPICAL RAMP METER AND HOV LANE MARKING



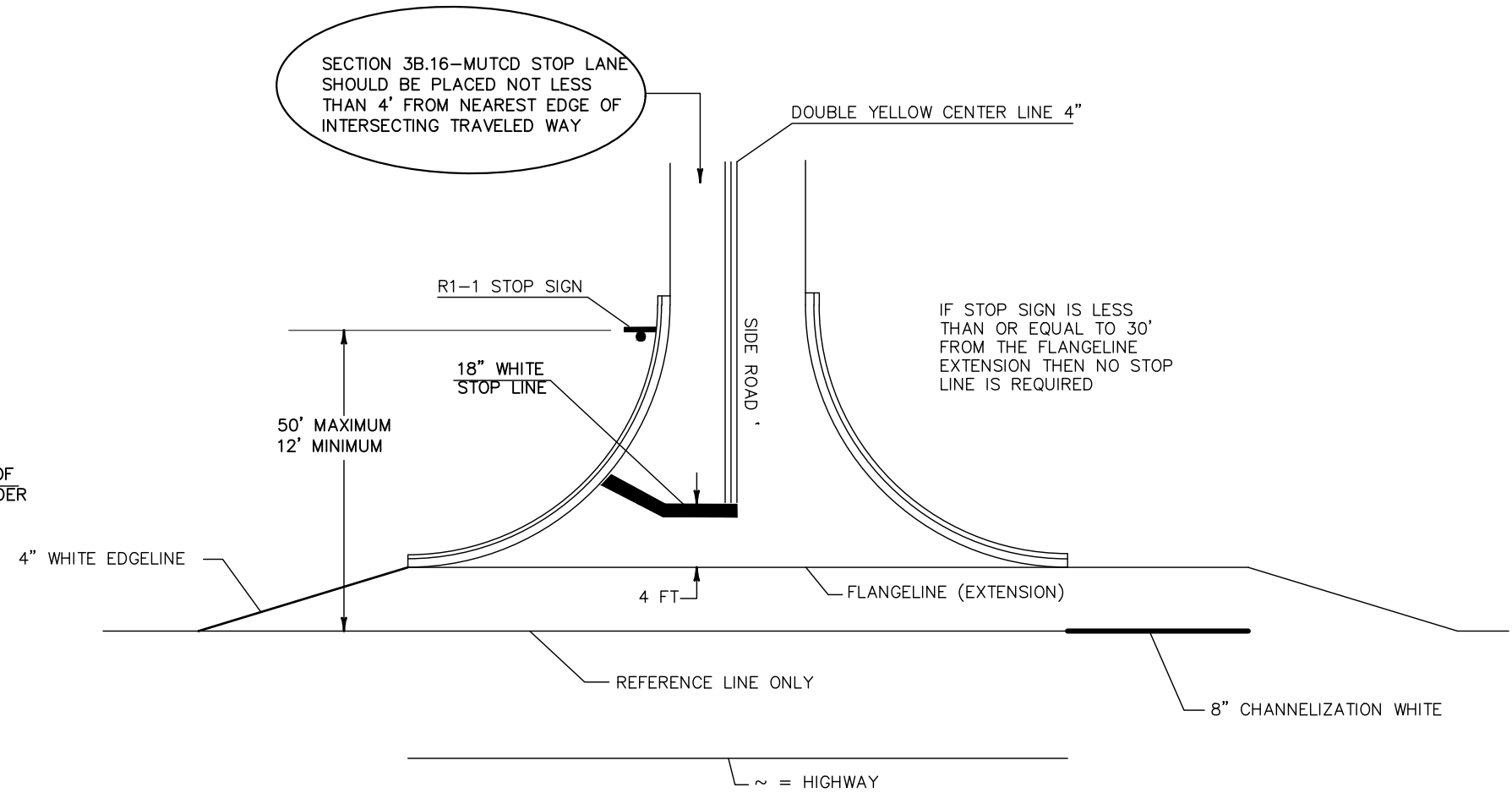
MINOR INTERSECTION WITHOUT CURBS
(TYPICAL MARKING)



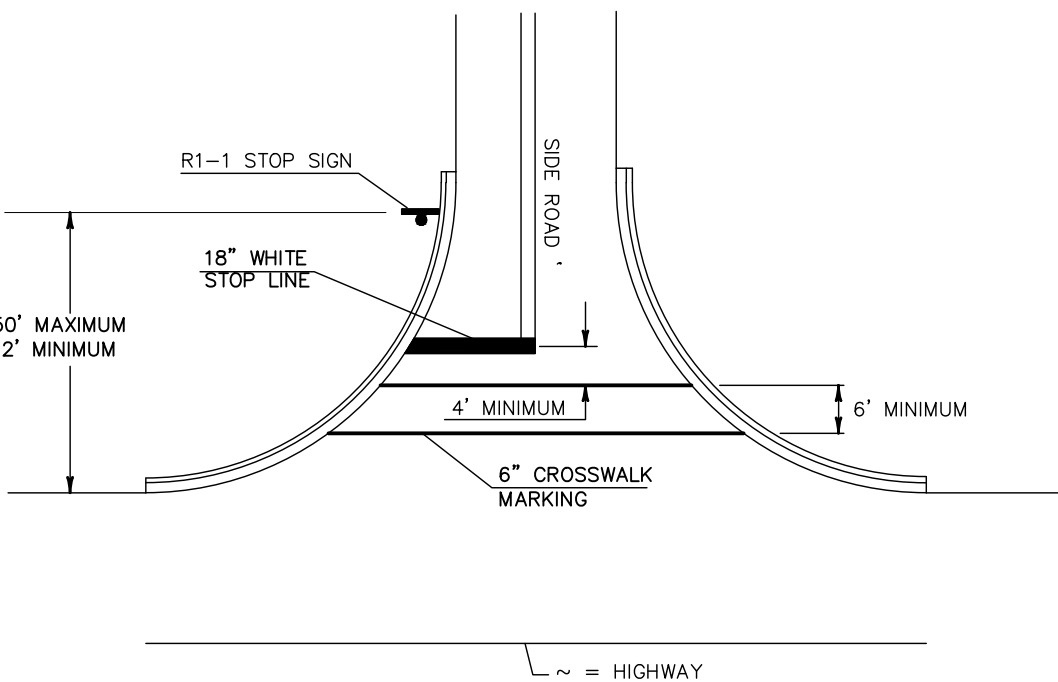
MINOR INTERSECTION WITH CURBS
(TYPICAL MARKING)



TYPICAL PAVEMENT MARKING FOR SIDEROADS



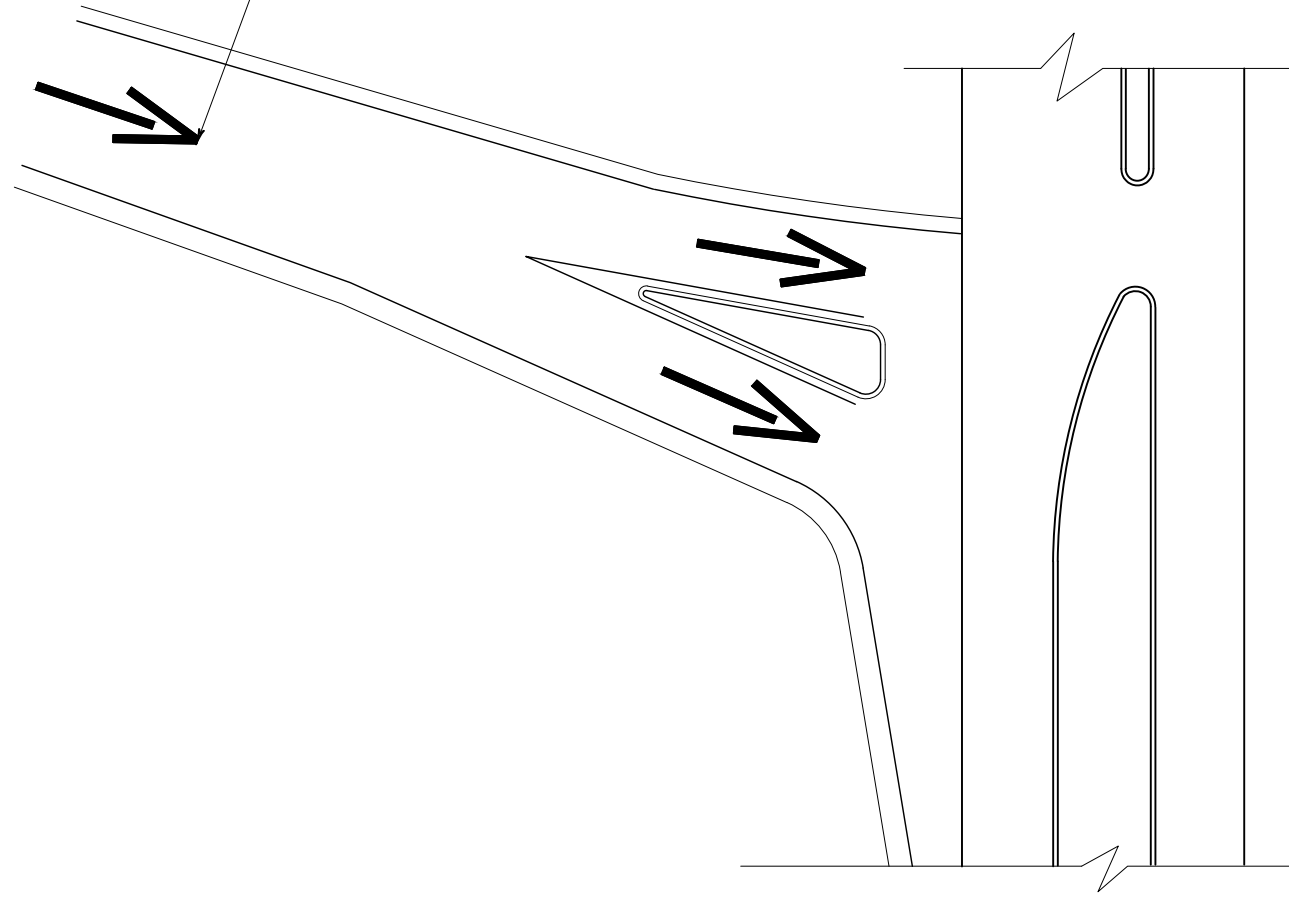
TYPICAL PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING

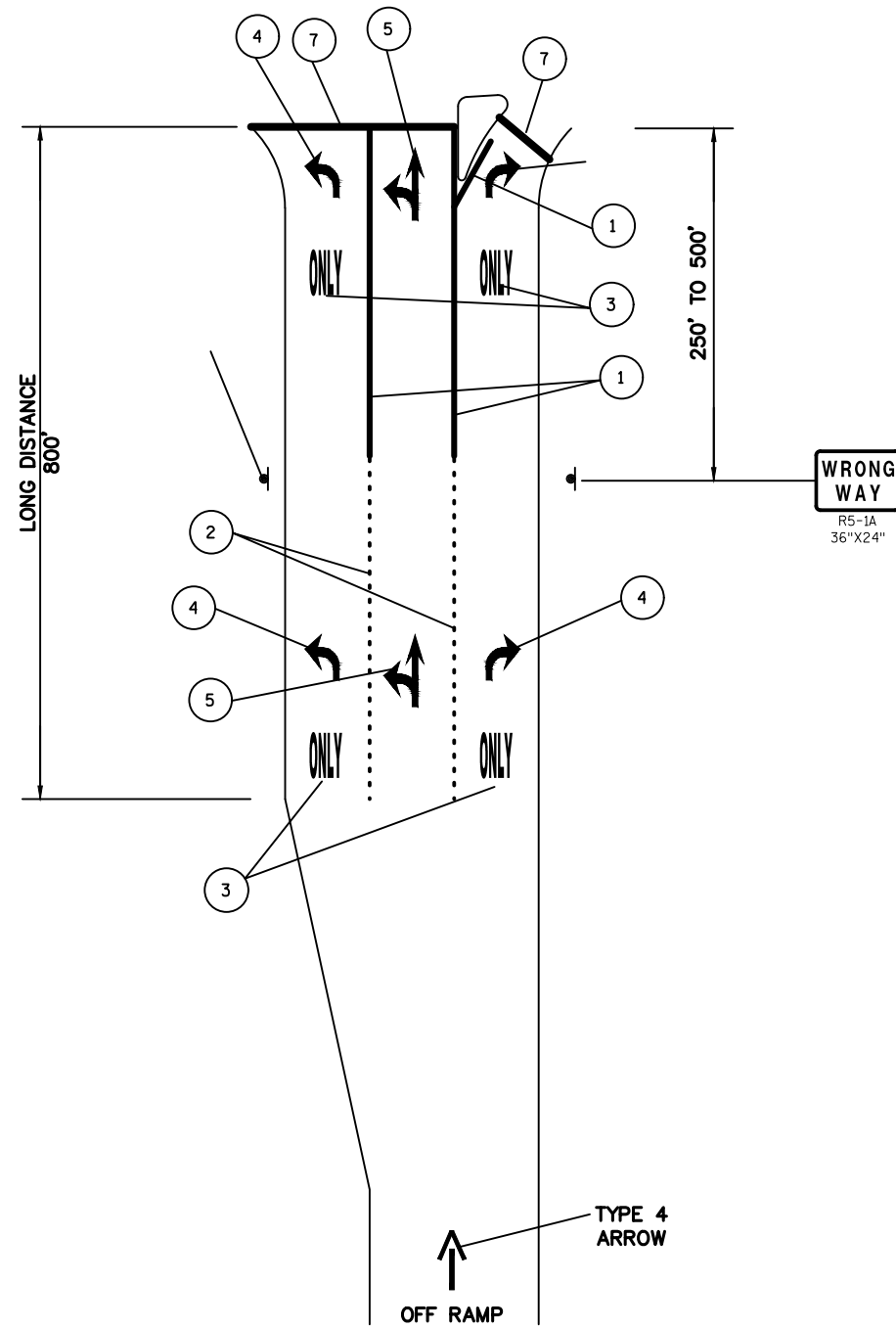
- NOTES:
 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
- STOP LINES REQUIRED WHERE:
- CROSSWALK MARKINGS EXIST OR BEING PROVIDED
 - LARGE RADII
 - OFFSET LEFT TURNS WHERE STOP BAR FOR LEFT TURN IS SET BACK FROM THRU MOVEMENT.

POSITION TIP OF TYPE 4 ARROW
 WHERE ONLY ONE LANE OR AT WRONG WAY SIGN LOCATION
 DEPENDING ON IF ONE LANE OR MULTIPLE LANES
 (SEE SDD FOR ARROW CONFIGURATION)

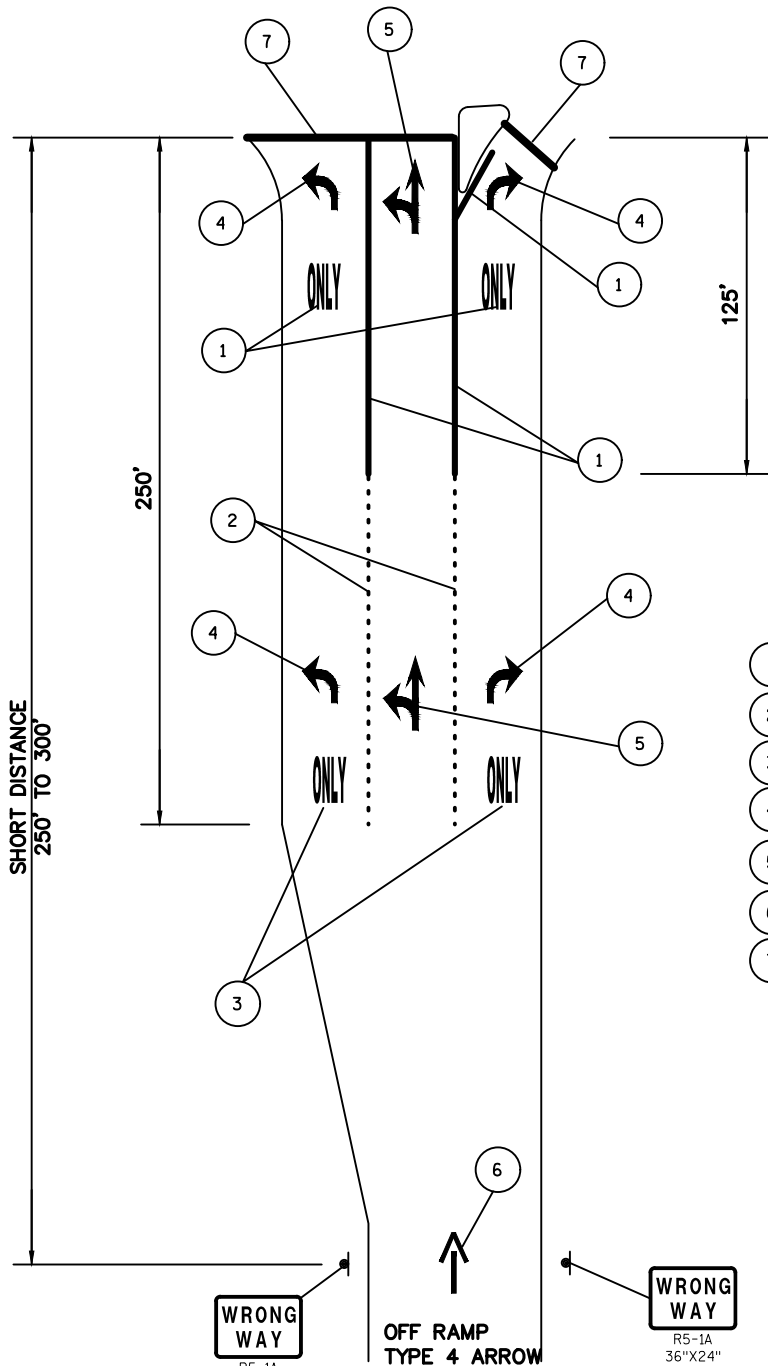


EXIT RAMP
 PLAN VIEW

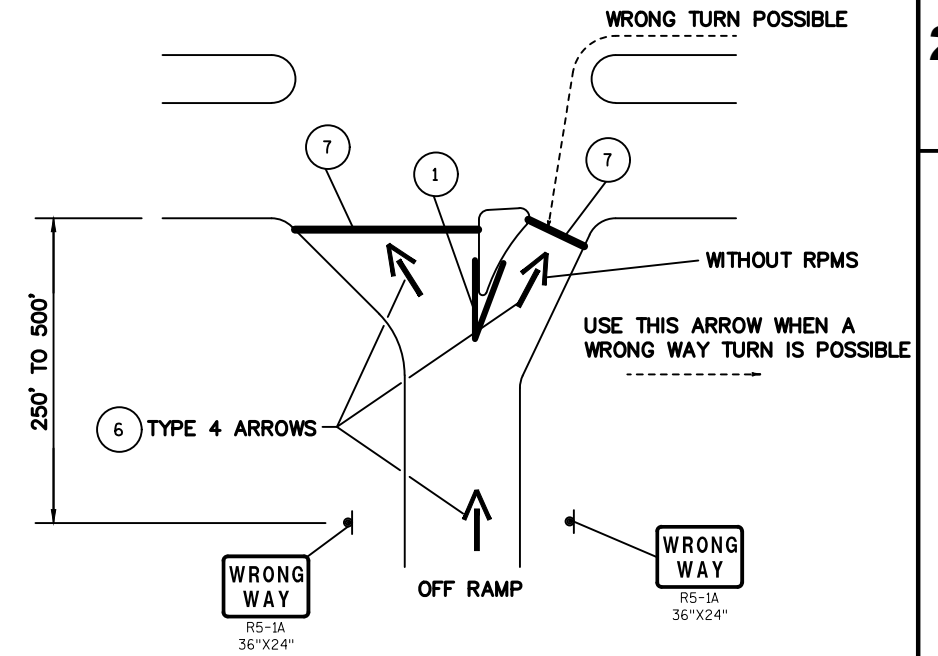
(RAMPS & ARROWS)



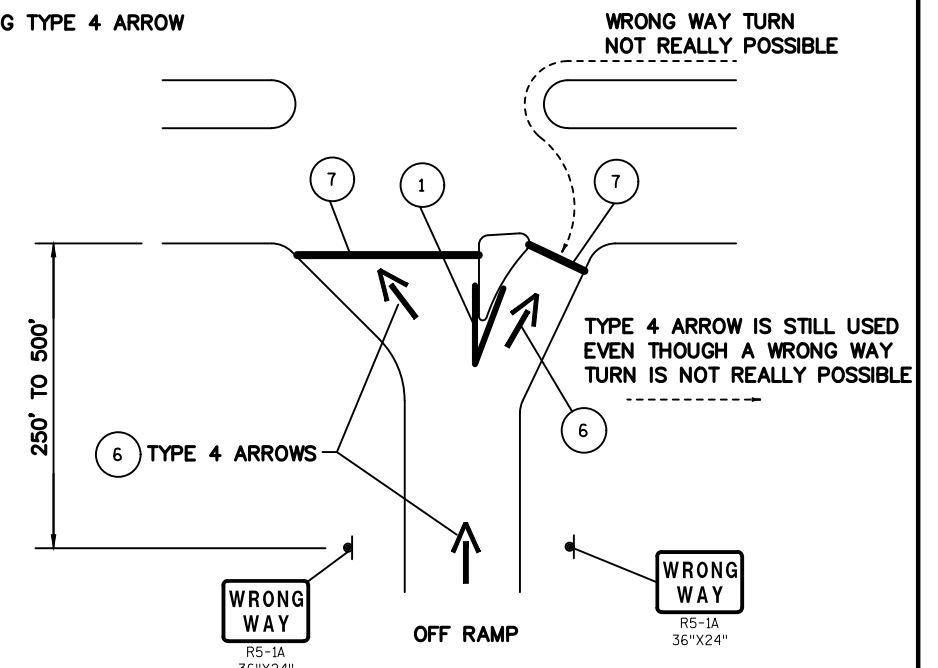
**EXIT RAMP
LONG TURN LANES**



**EXIT RAMP
250' OR SHORTER TURN LANES**

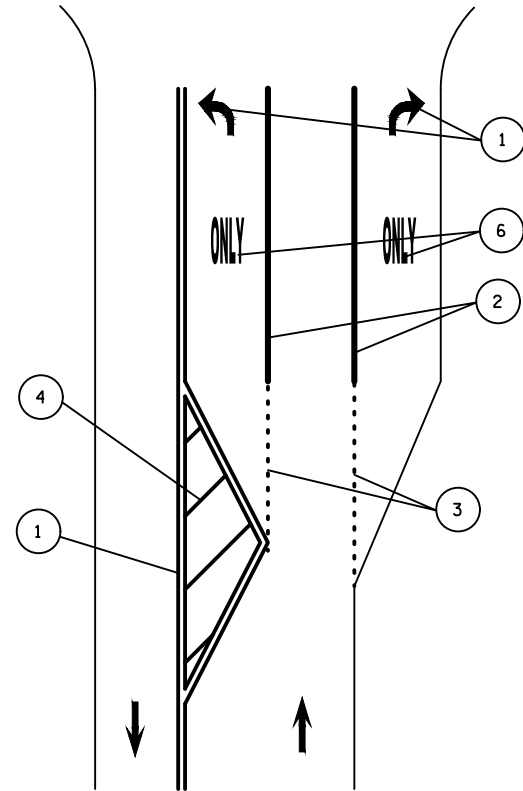


**EXIT RAMP
(SIMPLE)**



**EXIT RAMP
(SIMPLE)**

- LEGEND**
- 1 PAVEMENT MARKING 8" CHANNELIZING WHITE
 - 2 PAVEMENT MARKING 8" WHITE (3' LINE, 9' SPACE)
 - 3 PAVEMENT MARKING WORDS
 - 4 PAVEMENT MARKING TYPE 2 ARROW
 - 5 PAVEMENT MARKING TYPE 3 ARROW
 - 6 PAVEMENT MARKING TYPE 4 ARROW
 - 7 18" STOP BAR

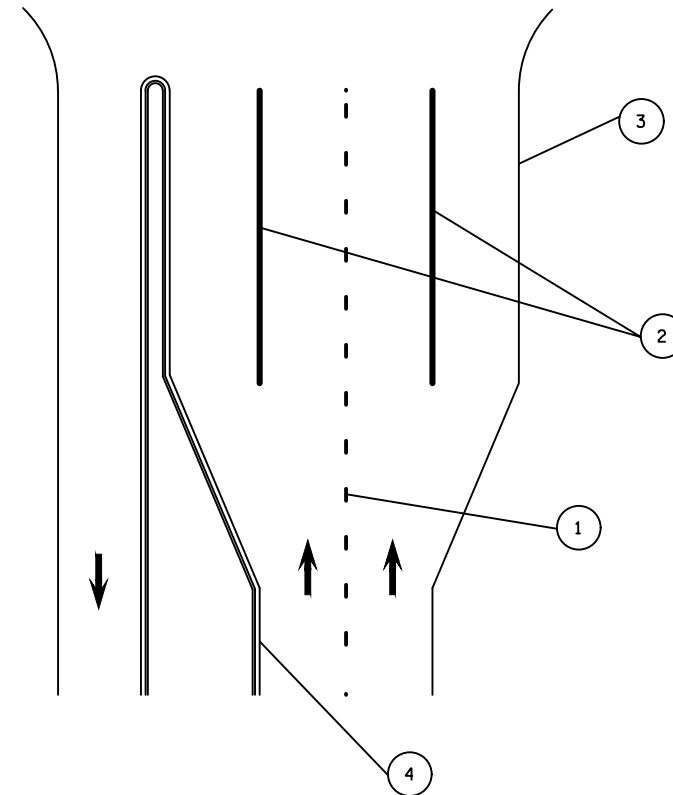


NOTE: IF SIGNALIZED
ADD STOP BAR

**TYPICAL ARROW/ONLY LANE USE MARKINGS
FOR PAINTED CENTERLINE APPLICATION**

LEGEND

- 1 PAVEMENT MARKING 4" DOUBLE YELLOW
- 2 PAVEMENT MARKING 8" CHANNELIZING WHITE
- 3 PAVEMENT MARKING 8" WHITE (3' LINE, 9' SPACE)
- 4 PAVEMENT MARKING 12" DIAGONAL YELLOW
- 5 PAVEMENT MARKING TYPE 2 ARROW
- 6 PAVEMENT MARKING WORDS

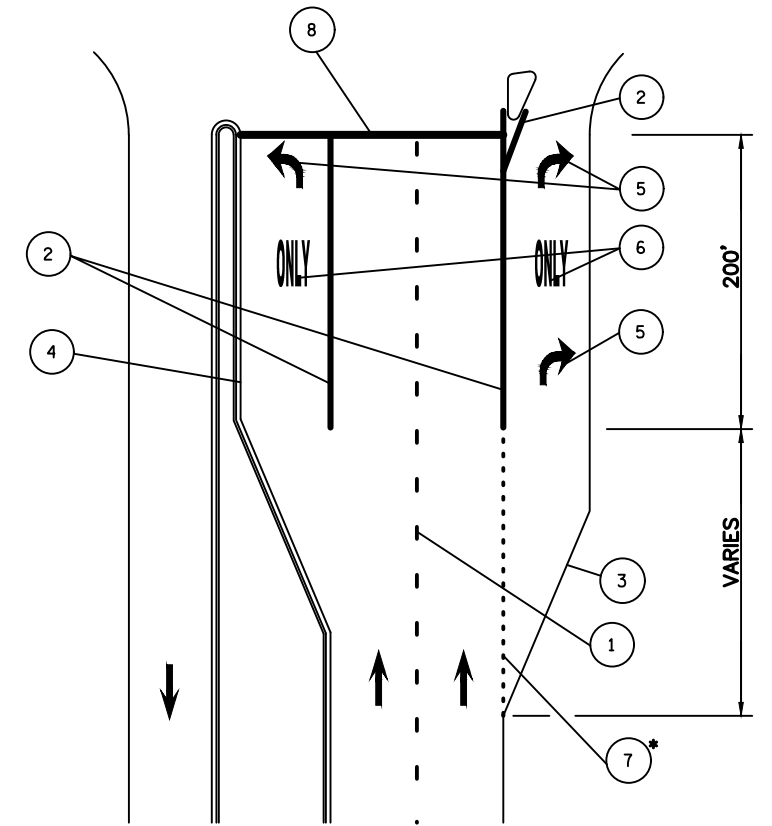


NOTE: IF OUTSIDE SHOULDER
IS NOT CURB & GUTTER THEN
ALWAYS USE EDGELINE
REGARDLESS OF SPEED LIMIT

**TYPICAL NO ARROW/ONLY TURN LANES
CURB & GUTTER MEDIAN
UNSIGNALIZED SIDEROAD**

LEGEND

- 1 PAVEMENT MARKING 4" LANE LINE WHITE (12.5' LINE, 37.5' SPACE)
- 2 PAVEMENT MARKING 8" CHANNELIZING WHITE
- 3 PAVEMENT MARKING 4" WHITE EDGELINE 45 MPH & GREATER
- 4 PAVEMENT MARKING 4" YELLOW EDGELINE 45 MPH & GREATER



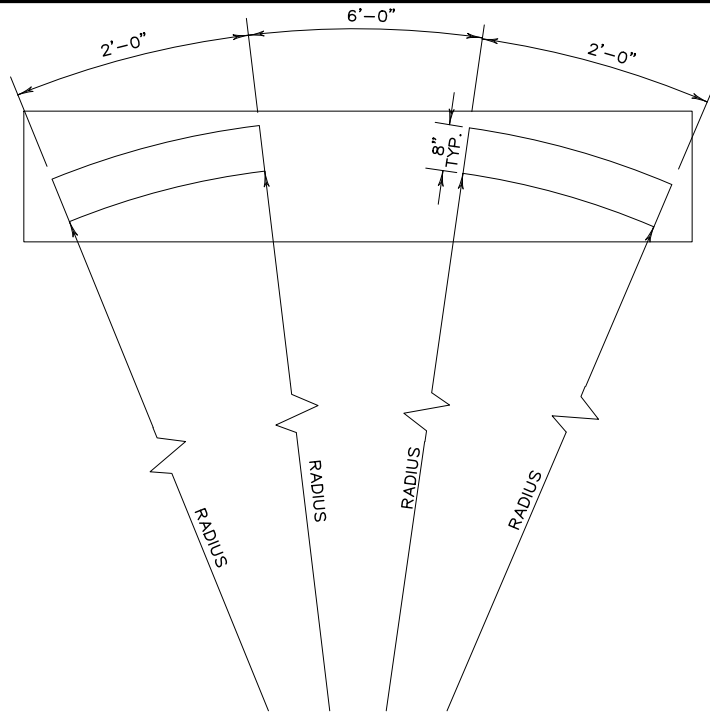
NOTE: SIGNALIZED INTERSECTION

**TYPICAL MARKING AT
SIGNALIZED INTERSECTION
CURB & GUTTER MEDIAN**

LEGEND

- 1 PAVEMENT MARKING 4" LANE LINE WHITE (12.5' LINE, 37.5' SPACE)
- 2 PAVEMENT MARKING 8" CHANNELIZING WHITE
- 3 PAVEMENT MARKING 4" WHITE EDGELINE 45 MPH & GREATER
- 4 PAVEMENT MARKING 4" YELLOW EDGELINE 45 MPH & GREATER
- 5 PAVEMENT MARKING TYPE 2 ARROW
- 6 PAVEMENT MARKING WORDS
- 7 PAVEMENT MARKING 8" WHITE (3' LINE, 9' SPACE)
- 8 PAVEMENT MARKING 18" STOP LINE

* 7 DOT PATTERN NOT NEEDED
IF CURB & GUTTER UNLESS
ON CURVE

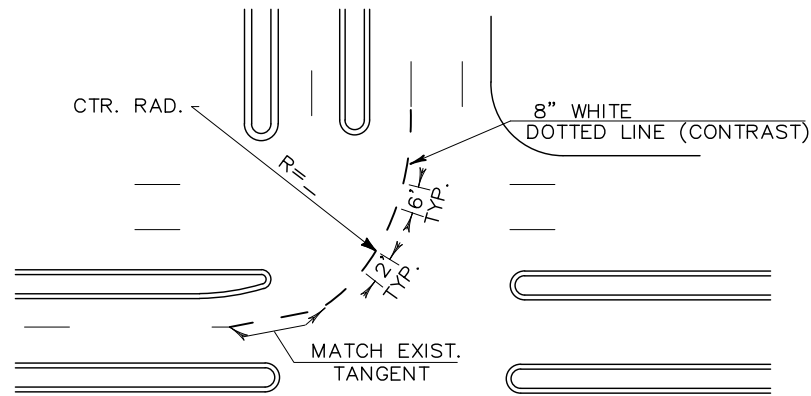


DOTTED TEMPLATE

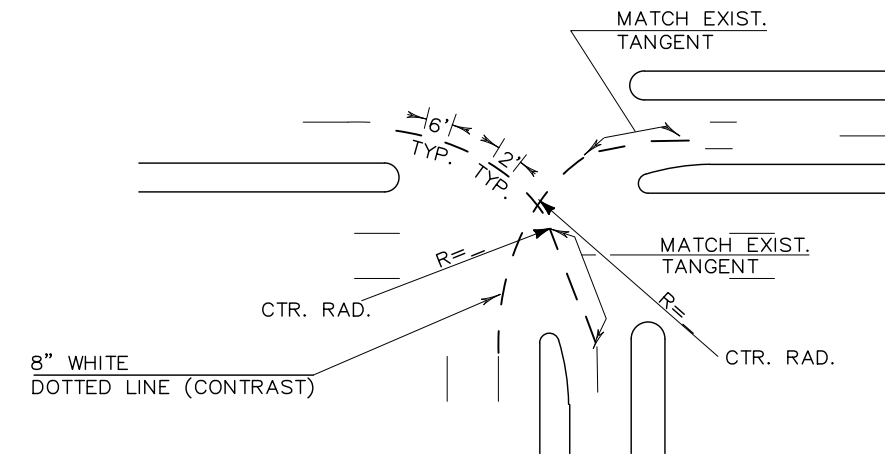
NOTE: CONTRACTOR TO BUILD TEMPLATE BASED ON RADIUS SHOWN. TEMPLATES ARE TO BE CONSTRUCTED OF PLYWOOD, PLASTIC, OR SUITABLE MATERIAL APPROVED BY THE ENGINEER IN THE FIELD.

DESIGNER NOTE: ESTABLISH RADIUS FOR DUAL LEFT MARKING PROVIDE R=VALUE IN SPECIFIC CASE

INTERSECTING HIGHWAYS
(DOTTED PATTERN)
DOUBLE LEFT-TURNING MOVEMENTS



INTERSECTING HIGHWAYS
(DOTTED PATTERN)
DOUBLE LEFT-TURNING MOVEMENTS

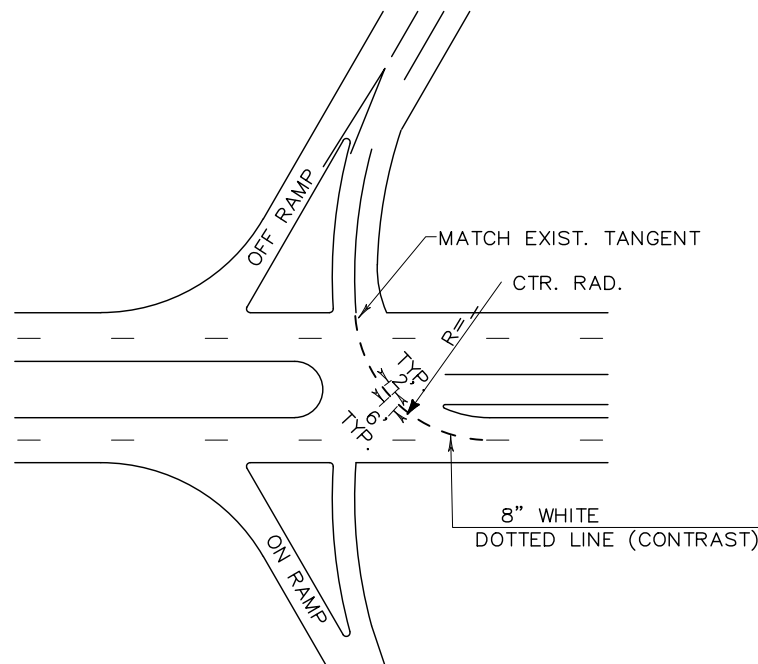


GENERAL NOTES

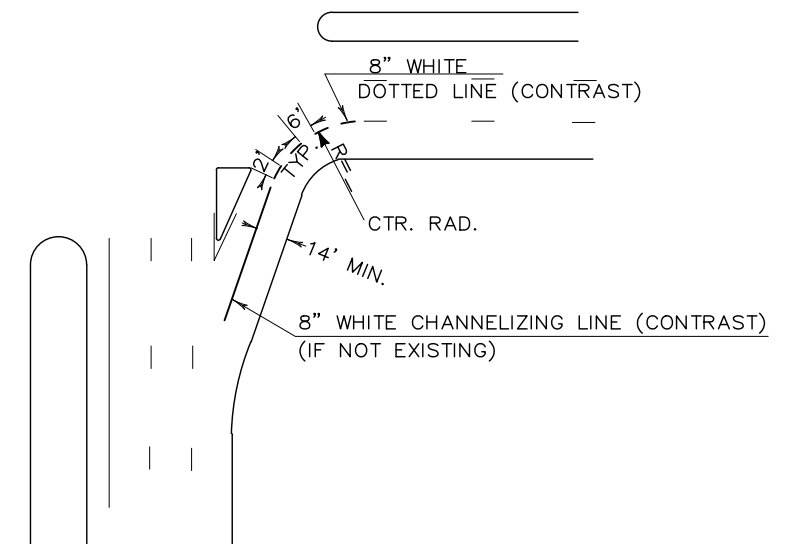
1. DOTTED PAVEMENT MARKING PATTERNS SHALL BE INSTALLED WITH A 2-FOOT SEGMENT AND A 6-FOOT GAP.
2. EXISTING MARKINGS THRU INTERSECTIONS DO NOT ALWAYS HAVE THE 2-FOOT X 6-FOOT CYCLE. IF THE EXISTING MARKINGS ARE OF THE 5-FOOT CYCLE, THEY WILL BE BRUSH PLASTED AND PAVEMENT MARKED WITH A 380 WR TAPE GROOVED IN.

IF THE EXISTING MARKINGS ARE NOT OF THE 2-FOOT CYCLE, THE CONTRACTOR WILL LAY OUT THE NEW MARKINGS, PREPARE THE EXISTING PAVMENT BY BRUSH PLASTING, AND A 380 WR TAPE PAVEMENT MARK THE NEW CYCLE.
3. IF THE DOTTED PAVEMENT MARKINGS ARE NON-EXISTING, THE CONTRACTOR SHALL LAY OUT THE RADIUS, AS BEING USED BY THE PRESENT TRAFFIC, WITH THE MINIMUM LANE WIDTHS AS SHOWN ON THE PLANS.
4. THE CONTRACTOR SHALL CONSTRUCT AND USE ONE OF THE TWO DOTTED TEMPLATES WHICH MOST CLOSELY MATCH THE FIELD CONDITIONS.
5. THE CONTRACTOR SHALL PROTECT THE TAPE LINES UNTIL DRY, BY THE USE OF TRAFFIC CONTROLS AND TRAFFIC CONES AS SHOWN ON THE TRAFFIC CONTROL PLANS.

FREEWAY EXIT RAMP
(DOTTED PATTERN)
DOUBLE LEFT-TURNING MOVEMENTS



INTERSECTIONS & EXIT RAMP
(DOTTED PATTERN)
DOUBLE RIGHT-TURNING MOVEMENTS

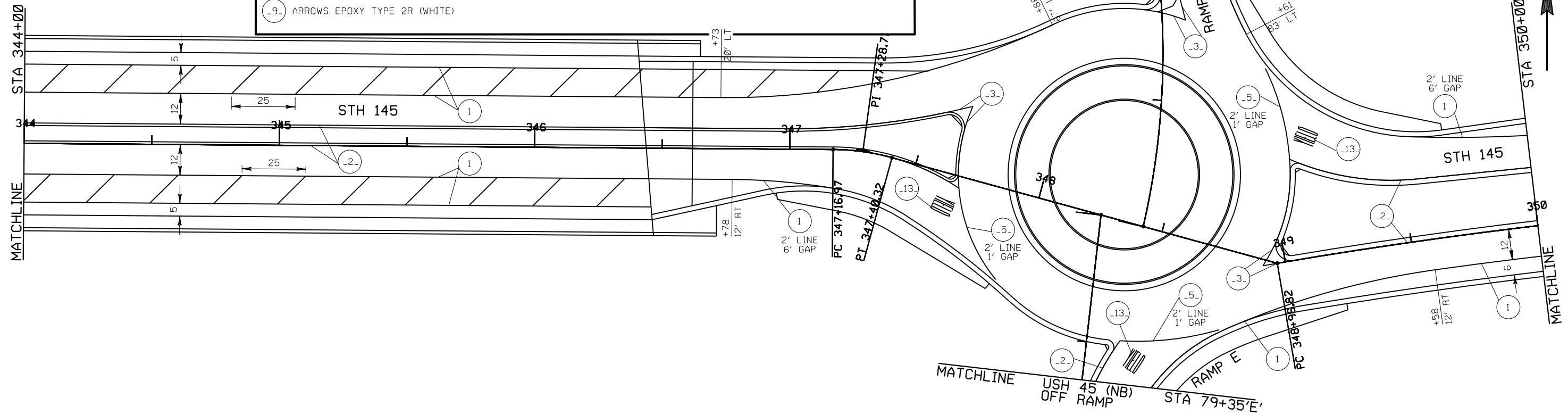


STANDARD DETAIL DRAWINGS
15C 12-6 TRAFFIC CONTROL FOR LANE CLOSURES
(SUITABLE FOR MOVING OPERATIONS)

INFORMATION ONLY ITEM #201

PAVEMENT MARKING LEGEND

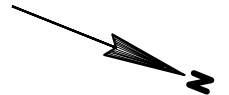
- | | | |
|--|-------------------------------------|-------------------------|
| 1 EPOXY 4-INCH (WHITE) | .10 ARROWS EPOXY TYPE 2 (WHITE) | .22 TYPE 4 ARROW EPOXY |
| -.2 EPOXY 4-INCH (YELLOW) | .11 ARROWS EPOXY TYPE 3R (WHITE) | .23 ARROW EPOXY TYPE 6R |
| -.3 EPOXY 8-INCH (WHITE) | .12 ARROWS EPOXY TYPE 3 (WHITE) | |
| -.4 EPOXY 4-INCH (YELLOW) | .13 WORDS EPOXY (WHITE) | |
| -.5 MARKING DOTTED EXTENSION EPOXY 18-INCH (WHITE) | .16 STOP LINE EPOXY 18-INCH (WHITE) | |
| -.8 ARROWS EPOXY TYPE 1 (WHITE) | | |
| -.9 ARROWS EPOXY TYPE 2R (WHITE) | | |



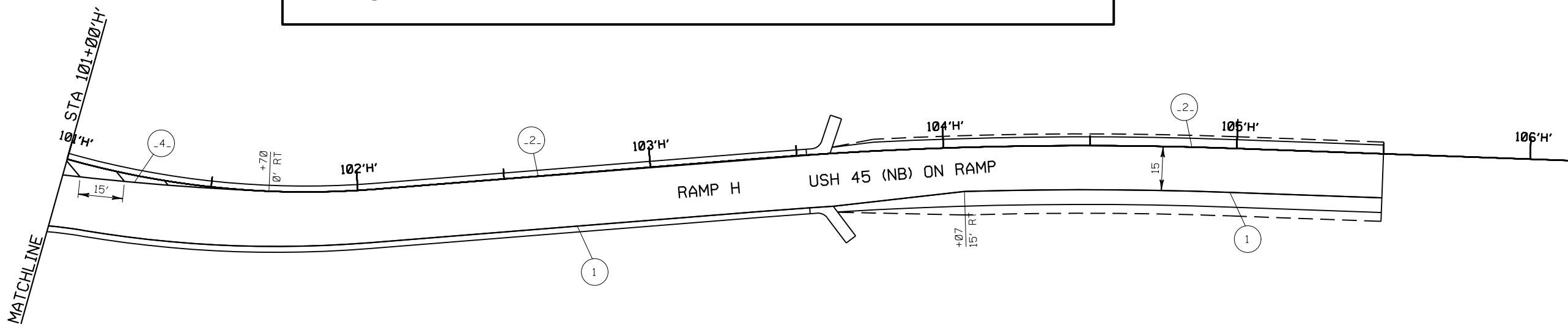
- NOTES:
- "PAINT ONLY" WHITE PORTION OF CONTRAST (LONG LINE AND OR SPECIAL MARKINGS) WHERE APPLICABLE.

INFORMATION ONLY

ITEM #201



PAVEMENT MARKING LEGEND		
1	EPOXY 4-INCH (WHITE)	-10-
-2-	EPOXY 4-INCH (YELLOW)	11
-3-	EPOXY 8-INCH (WHITE)	-12-
-4-	EPOXY 4-INCH (YELLOW)	-13-
-5-	MARKING DOTTED EXTENSION EPOXY 18-INCH (WHITE)	-16-
-8-	ARROWS EPOXY TYPE 1 (WHITE)	-17-
-9-	ARROWS EPOXY TYPE 2R (WHITE)	-22-
-10-	ARROWS EPOXY TYPE 2 (WHITE)	23
11	ARROWS EPOXY TYPE 3R (WHITE)	-23-
-12-	ARROWS EPOXY TYPE 3 (WHITE)	
-13-	WORDS EPOXY (WHITE)	
-16-	STOP LINE EPOXY 18-INCH (WHITE)	
-17-	ISLAND NOSE EPOXY (YELLOW)	
-22-	TYPE 4 ARROW EPOXY	
23	ARROW EPOXY TYPE 6R	



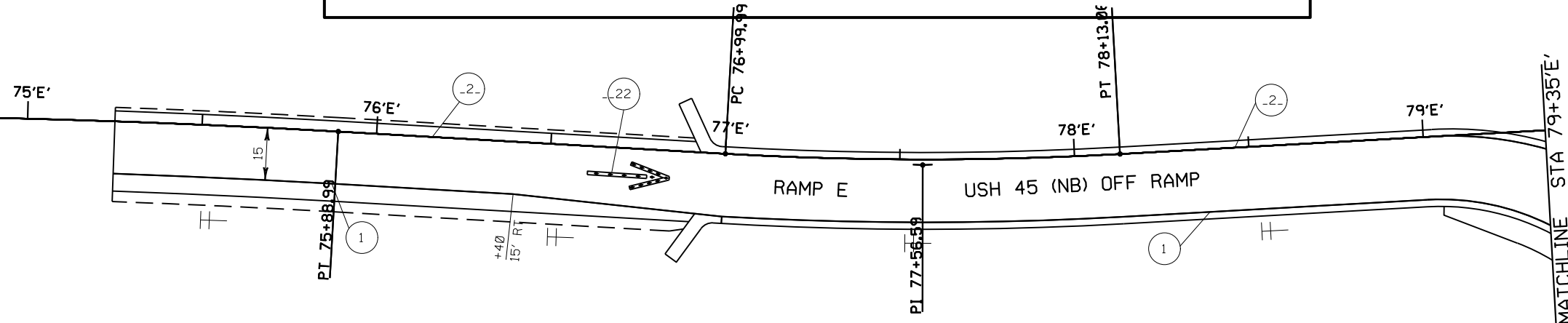
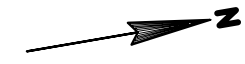
NOTES:
 1. "PAINT ONLY" WHITE PORTION OF CONTRAST (LONG LINE AND OR SPECIAL MARKINGS) WHERE APPLICABLE.

SCALE, FEET

SHEET 2 OF 6

INFORMATION ONLY ITEM #201

PAVEMENT MARKING LEGEND					
1	EPOXY 4-INCH (WHITE)	.10	ARROWS EPOXY TYPE 2 (WHITE)	.22	TYPE 4 ARROW EPOXY
.2	EPOXY 4-INCH (YELLOW)	.11	ARROWS EPOXY TYPE 3R (WHITE)	.23	ARROW EPOXY TYPE 6R
.3	EPOXY 8-INCH (WHITE)	.12	ARROWS EPOXY TYPE 3 (WHITE)		
.4	EPOXY 4-INCH (YELLOW)	.13	WORDS EPOXY (WHITE)		
.5	MARKING DOTTED EXTENSION EPOXY 18-INCH (WHITE)	.16	STOP LINE EPOXY 18-INCH (WHITE)		
.8	ARROWS EPOXY TYPE 1 (WHITE)	.17	ISLAND NOSE EPOXY (YELLOW)		
.9	ARROWS EPOXY TYPE 2R (WHITE)				



NOTES:
1. "PAINT ONLY" WHITE PORTION OF CONTRAST (LONG LINE AND OR SPECIAL MARKINGS) WHERE APPLICABLE.

SCALE, FEET 0 20 40

SHEET 3 OF 6

LEGEND

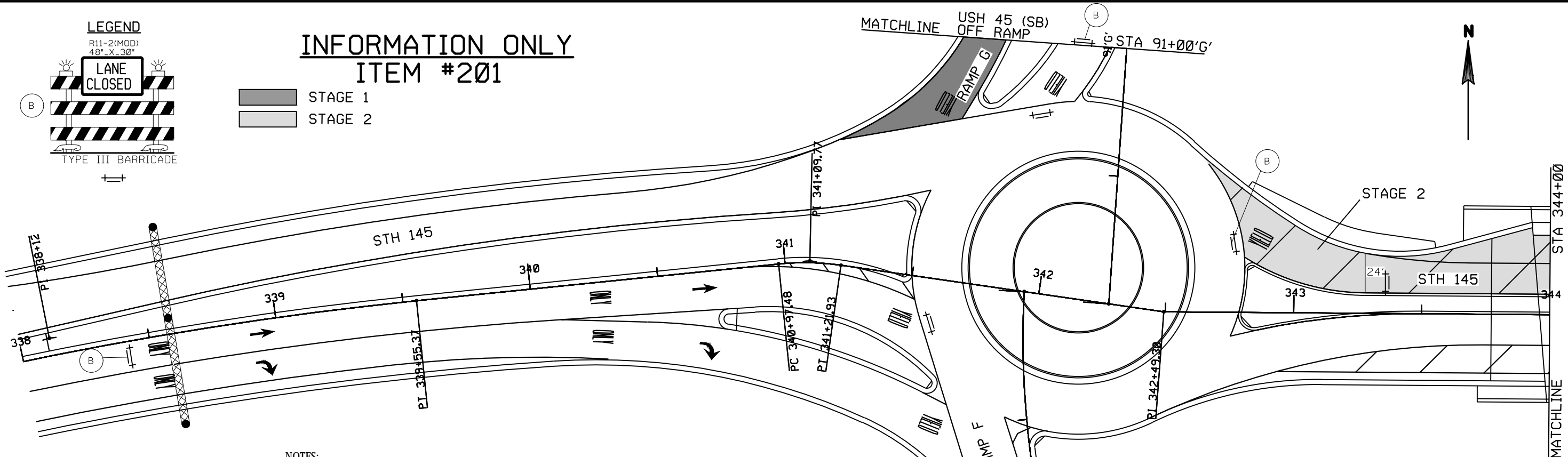
R11-2(MOD)
48" X 30"



TYPE III BARRICADE

INFORMATION ONLY
ITEM #201

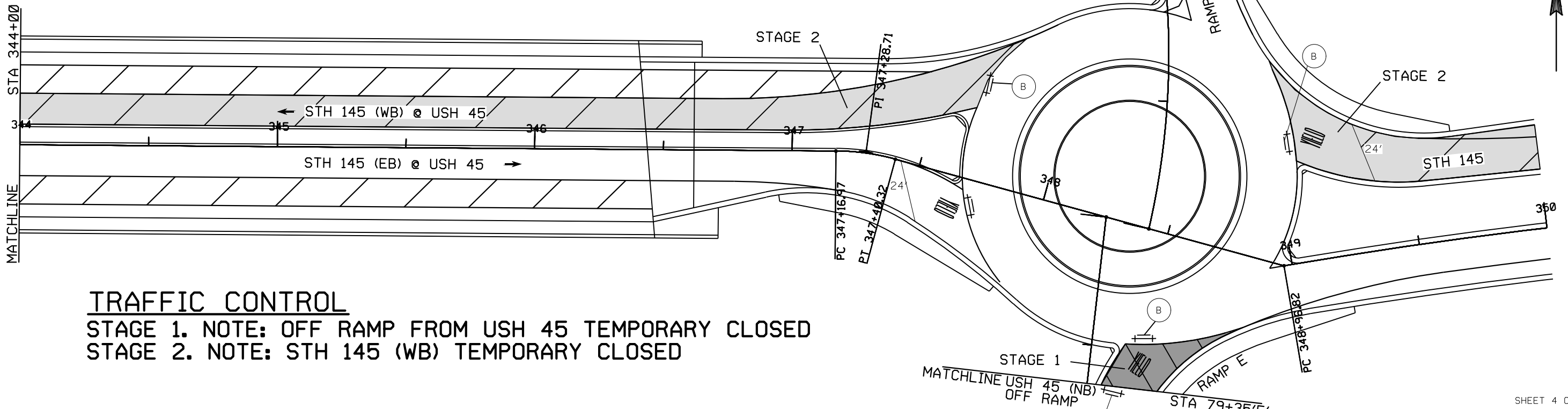
STAGE 1
STAGE 2



NOTES:

- 3. ALL WORK ZONE TRAFFIC CONTROL OPERATION FOR ALL ROUNDABOUTS USING TYPE III BARRICADE TO CLOSE A LANE OR ROADWAY SHALL BE AIDED WITH:
28 INCH CONES, SIZE FOR CONVENTIONAL ROADWAYS
OR
36 INCH CONES, FOR HIGHWAY AND FREEWAY LOCATIONS

CONTRACTORS WILL DETERMINE (IN THE FIELD) THE ADEQUATE NUMBER OF CONES (28' MINIMAL HEIGHT) TO PROVIDE A SAFE ENVIROMENT FOR WORKERS AND ROADWAY DRIVERS.



TRAFFIC CONTROL

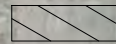


STAGE 1. NOTE: OFF RAMP FROM USH 45 TEMPORARY CLOSED
STAGE 2. NOTE: STH 145 (WB) TEMPORARY CLOSED

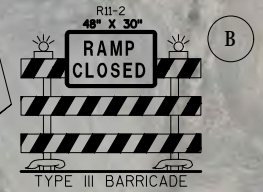


TEMPORARY TRAFFIC CONTROL
 ITEM #201
 STH 145 @ USH 45 (OFF RAMP)
 WASHINGTON CO.

STH 145

USH 45

-  WORK ZONE STAGE 1
-  CONES
-  TYPE III BARRICADES WITH SIGN



NOTES:
 3. ALL WORK ZONE TRAFFIC CONTROL OPERATION FOR ALL ROUNDABOUTS USING TYPE III BARRICADE TO CLOSE A LANE OR ROADWAY SHALL BE AIDED WITH:
 28 INCH CONES, SIZE FOR CONVENTIONAL ROADWAYS
 OR
 36 INCH CONES, FOR HIGHWAY AND FREEWAY LOCATIONS
 CONTRACTORS WILL DETERMINE (IN THE FIELD) THE ADEQUATE NUMBER OF CONES (28' MINIMAL HEIGHT) TO PROVIDE A SAFE ENVIROMENT FOR WORKERS AND ROADWAY DRIVERS.

25' TYP

DETOUR FOR TRAFFIC CONTROL
 ITEM #201 (STAGE 2 OF 2)
 STH 145 @ USH 45
 WASHINGTON CO.



LEGEND

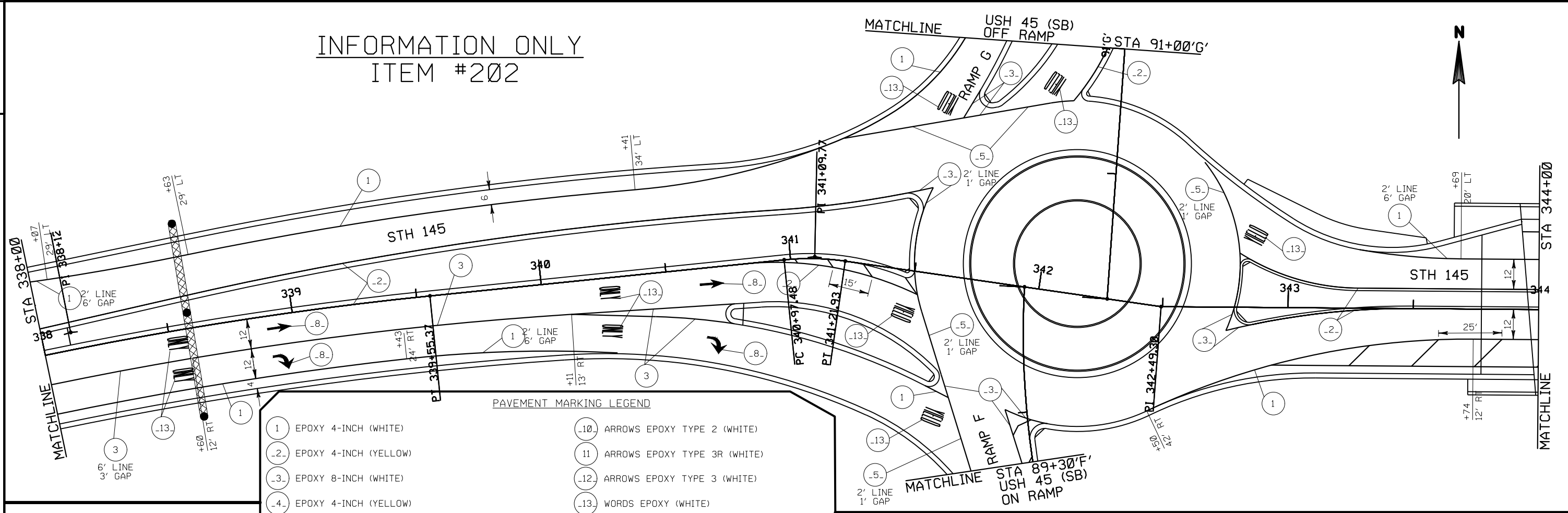
- WORK ZONE
- BARRICADES TYPE II WITHOUT, WITH SIGN (8' EQUIVALENT)
- POLE MOUNTED SIGN
- DIRECTION OF TRAFFIC

SIGN LEGEND

- ① DETOUR M4-9L 30'x24'
- ② DETOUR M4-9R 30'x24'
- ④ DETOUR M4-9L 30'x24' (MOD)
- A ROAD CLOSED AHEAD W20-34
- B RAMP CLOSED R11-2 48' x 30' TYPE III BARRICADE

NOTES:
 3. ALL WORK ZONE TRAFFIC CONTROL OPERATION FOR ALL ROUNDABOUTS USING TYPE III BARRICADE TO CLOSE A LANE OR ROADWAY SHALL BE AIDED WITH:
 28 INCH CONES, SIZE FOR CONVENTIONAL ROADWAYS
 OR
 36 INCH CONES, FOR HIGHWAY AND FREEWAY LOCATIONS
 CONTRACTORS WILL DETERMINE (IN THE FIELD) THE ADEQUATE NUMBER OF CONES (28' MINIMAL HEIGHT) TO PROVIDE A SAFE ENVIROMENT FOR WORKERS AND ROADWAY DRIVERS.

INFORMATION ONLY ITEM #202

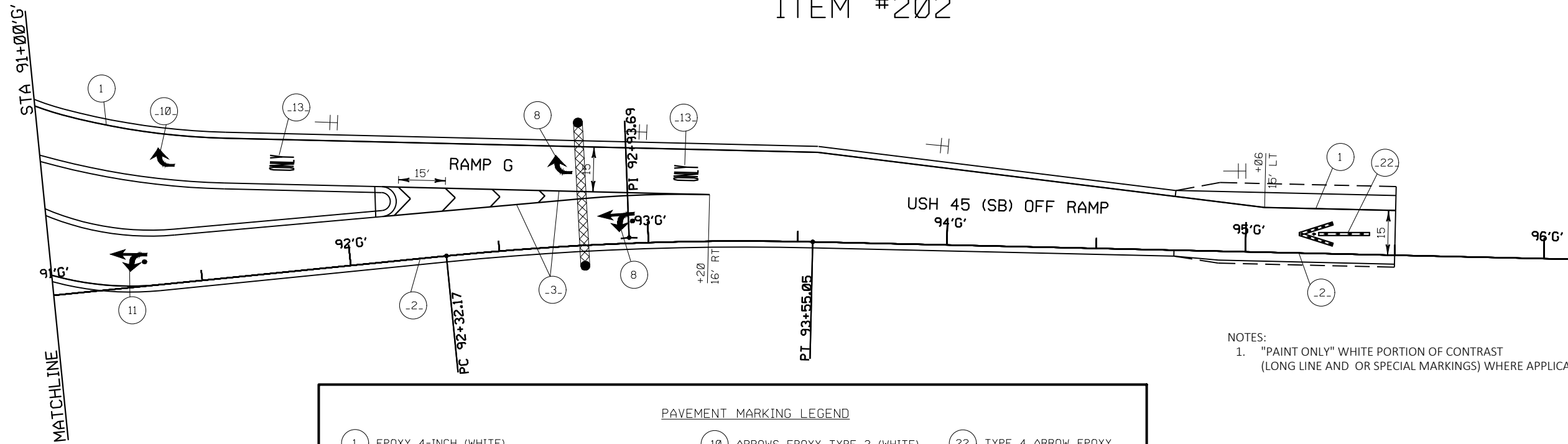


PAVEMENT MARKING LEGEND

① EPOXY 4-INCH (WHITE)	⑩ ARROWS EPOXY TYPE 2 (WHITE)
② EPOXY 4-INCH (YELLOW)	⑪ ARROWS EPOXY TYPE 3R (WHITE)
③ EPOXY 8-INCH (WHITE)	⑫ ARROWS EPOXY TYPE 3 (WHITE)
④ EPOXY 4-INCH (YELLOW)	⑬ WORDS EPOXY (WHITE)
⑤ MARKING DOTTED EXTENSION EPOXY 18-INCH (WHITE)	⑭ STOP LINE EPOXY 18-INCH (WHITE)
⑧ ARROWS EPOXY TYPE 1 (WHITE)	⑲ TYPE 4 ARROW EPOXY
⑨ ARROWS EPOXY TYPE 2R (WHITE)	⑳ ARROW EPOXY TYPE 6R

NOTES:
1. "PAINT ONLY" WHITE PORTION OF CONTRAST (LONG LINE AND OR SPECIAL MARKINGS) WHERE APPLICABLE.

INFORMATION ONLY ITEM #202



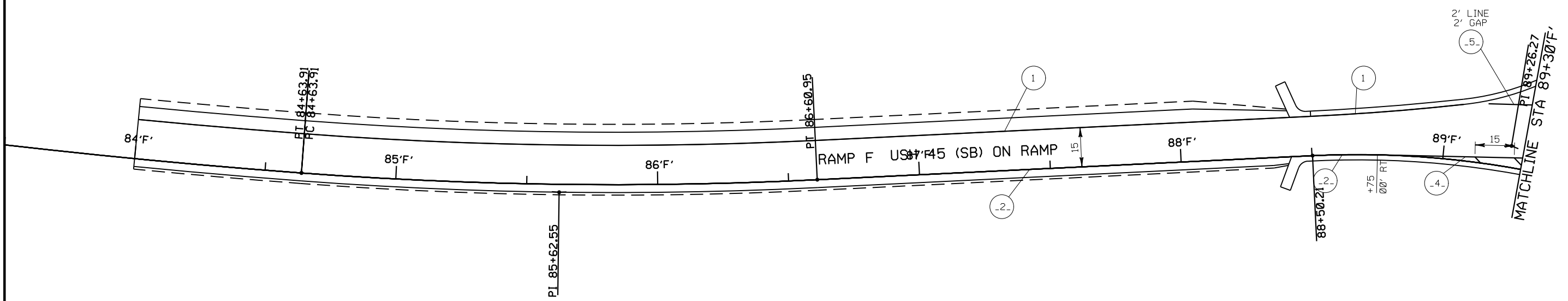
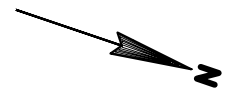
PAVEMENT MARKING LEGEND

1 EPOXY 4-INCH (WHITE)	-10 ARROWS EPOXY TYPE 2 (WHITE)	-22 TYPE 4 ARROW EPOXY
-2 EPOXY 4-INCH (YELLOW)	11 ARROWS EPOXY TYPE 3R (WHITE)	-23 ARROW EPOXY TYPE 6R
-3 EPOXY 8-INCH (WHITE)	-12 ARROWS EPOXY TYPE 3 (WHITE)	
-4 EPOXY 4-INCH (YELLOW)	-13 WORDS EPOXY (WHITE)	
-5 MAKRING DOTTED EXTENSION EPOXY 18-INCH (WHITE)	-16 STOP LINE EPOXY 18-INCH (WHITE)	
-8 ARROWS EPOXY TYPE 1 (WHITE)		
-9 ARROWS EPOXY TYPE 2R (WHITE)		

INFORMATION ONLY ITEM #202

PAVEMENT MARKING LEGEND

① EPOXY 4-INCH (WHITE)	⑩ ARROWS EPOXY TYPE 2 (WHITE)	⑳ TYPE 4 ARROW EPOXY
② EPOXY 4-INCH (YELLOW)	⑪ ARROWS EPOXY TYPE 3R (WHITE)	㉑ ARROW EPOXY TYPE 6R
③ EPOXY 8-INCH (WHITE)	⑫ ARROWS EPOXY TYPE 3 (WHITE)	
④ EPOXY 4-INCH (YELLOW)	⑬ WORDS EPOXY (WHITE)	
⑤ MARKING DOTTED EXTENSION EPOXY 18-INCH (WHITE)	⑭ STOP LINE EPOXY 18-INCH (WHITE)	
⑧ ARROWS EPOXY TYPE 1 (WHITE)		
⑨ ARROWS EPOXY TYPE 2R (WHITE)		



NOTES:
 1. "PAINT ONLY" WHITE PORTION OF CONTRAST (LONG LINE AND OR SPECIAL MARKINGS) WHERE APPLICABLE.

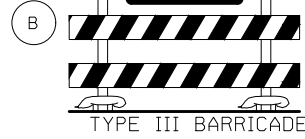
SCALE, FEET

SHEET 3 OF 5

LEGEND

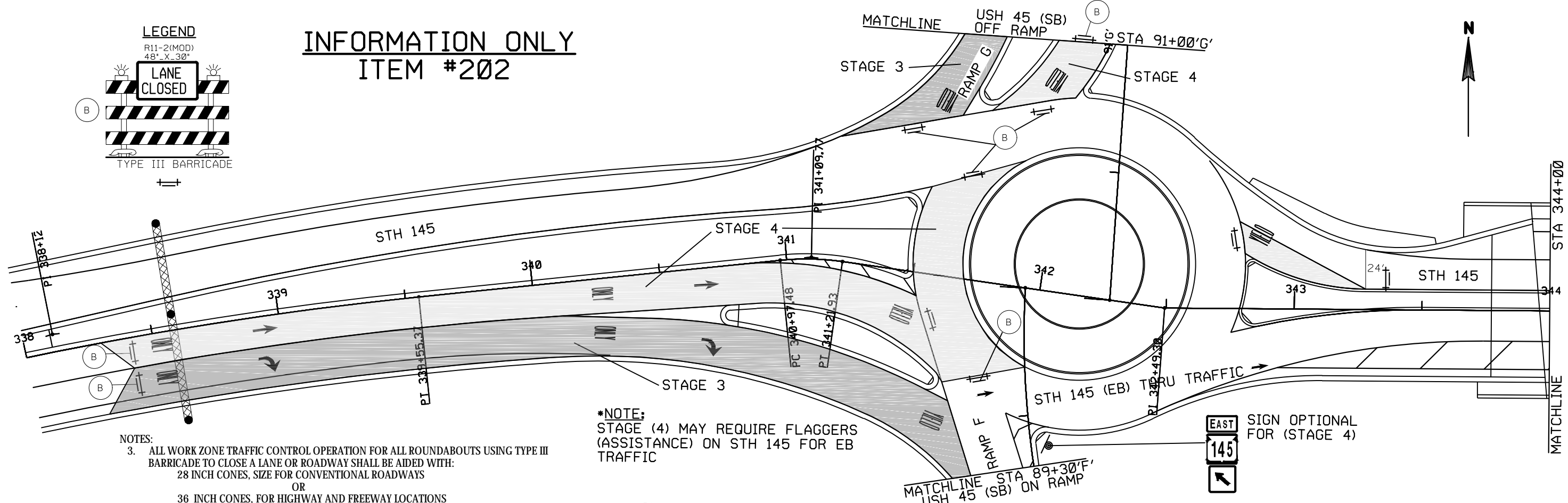
R11-2(MOD)
48" X 30"

LANE
CLOSED



TYPE III BARRICADE

INFORMATION ONLY
ITEM #202



NOTES:

- 3. ALL WORK ZONE TRAFFIC CONTROL OPERATION FOR ALL ROUNDABOUTS USING TYPE III BARRICADE TO CLOSE A LANE OR ROADWAY SHALL BE AIDED WITH:
28 INCH CONES, SIZE FOR CONVENTIONAL ROADWAYS
OR
36 INCH CONES, FOR HIGHWAY AND FREEWAY LOCATIONS

*NOTE:
STAGE (4) MAY REQUIRE FLAGGERS
(ASSISTANCE) ON STH 145 FOR EB
TRAFFIC

* OPTIONAL

CONTRACTORS WILL DETERMINE (IN THE FIELD) THE ADEQUATE NUMBER OF CONES (28' MINIMAL HEIGHT) TO PROVIDE A SAFE ENVIROMENT FOR WORKERS AND ROADWAY DRIVERS.

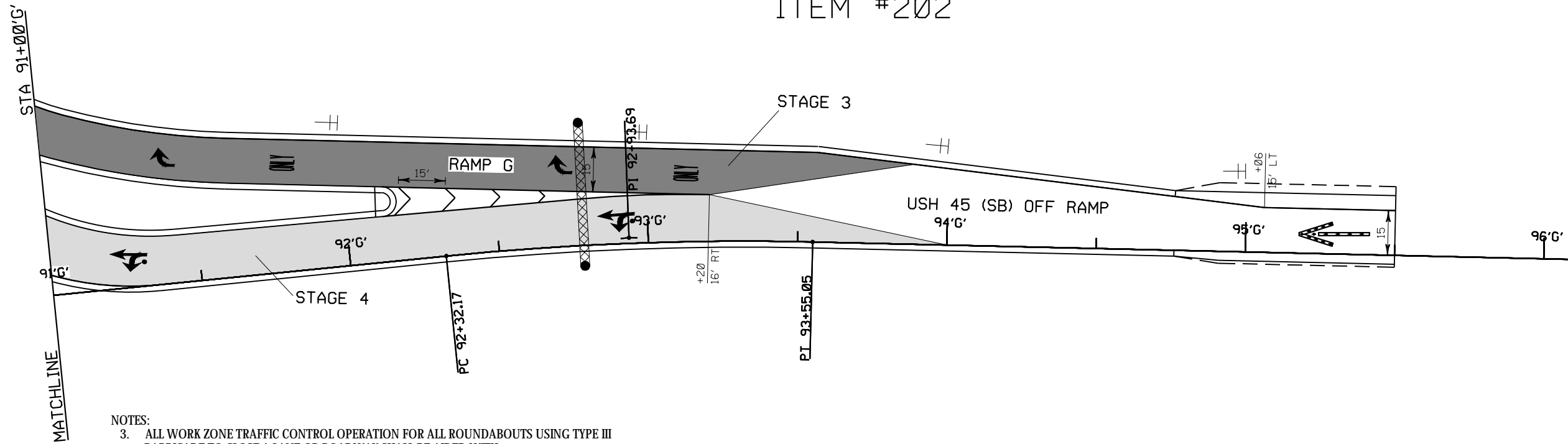
TRAFFIC CONTROL

STAGE 1. NOTE: ALL RAMPS ARE OPEN TO USH 45

STAGE 3. ON RAMP F & OFF RAMP G CLOSED

STAGE 4. EB STH 145 & OFF RAMP G SB CLOSED

INFORMATION ONLY ITEM #202

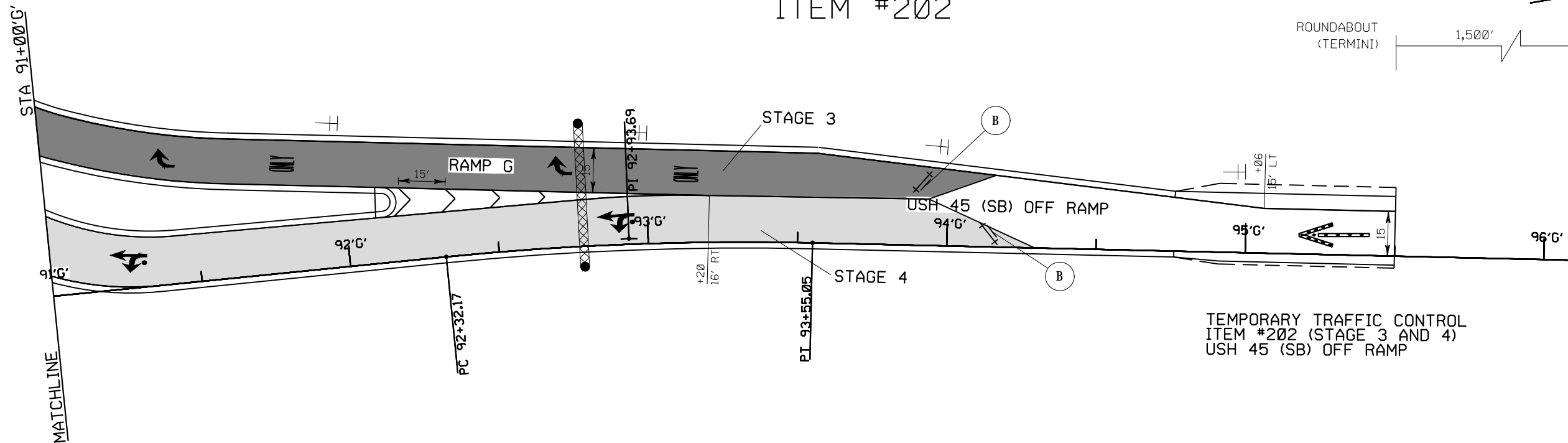


NOTES:

- 3. ALL WORK ZONE TRAFFIC CONTROL OPERATION FOR ALL ROUNDABOUTS USING TYPE III BARRICADE TO CLOSE A LANE OR ROADWAY SHALL BE AIDED WITH:
28 INCH CONES, SIZE FOR CONVENTIONAL ROADWAYS
OR
36 INCH CONES, FOR HIGHWAY AND FREEWAY LOCATIONS

CONTRACTORS WILL DETERMINE (IN THE FIELD) THE ADEQUATE NUMBER OF CONES (28' MINIMAL HEIGHT) TO PROVIDE A SAFE ENVIROMENT FOR WORKERS AND ROADWAY DRIVERS.

INFORMATION ONLY ITEM #202



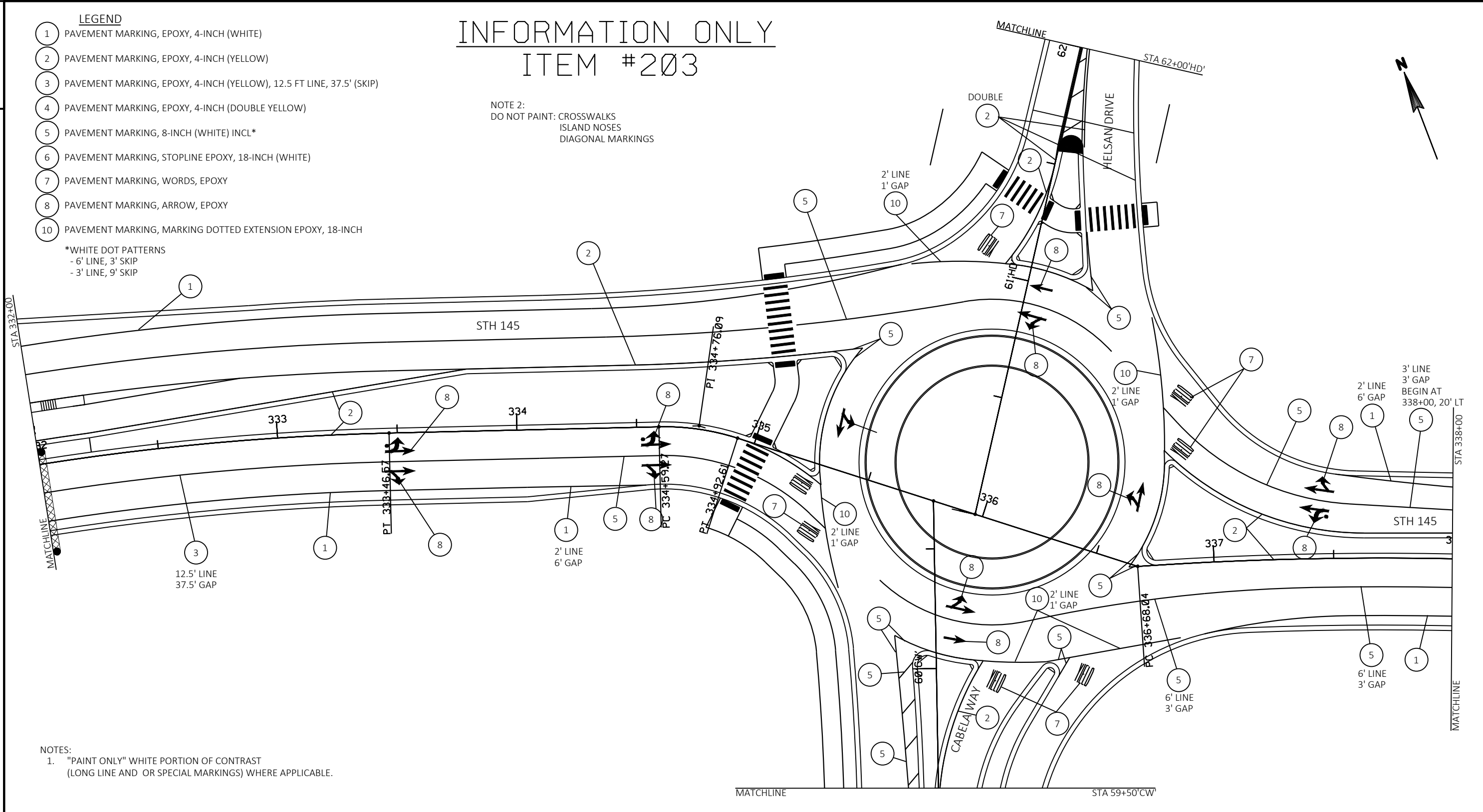
TEMPORARY TRAFFIC CONTROL
ITEM #202 (STAGE 3 AND 4)
USH 45 (SB) OFF RAMP

INFORMATION ONLY ITEM #203

- LEGEND**
- 1 PAVEMENT MARKING, EPOXY, 4-INCH (WHITE)
 - 2 PAVEMENT MARKING, EPOXY, 4-INCH (YELLOW)
 - 3 PAVEMENT MARKING, EPOXY, 4-INCH (YELLOW), 12.5 FT LINE, 37.5' (SKIP)
 - 4 PAVEMENT MARKING, EPOXY, 4-INCH (DOUBLE YELLOW)
 - 5 PAVEMENT MARKING, 8-INCH (WHITE) INCL*
 - 6 PAVEMENT MARKING, STOPLINE EPOXY, 18-INCH (WHITE)
 - 7 PAVEMENT MARKING, WORDS, EPOXY
 - 8 PAVEMENT MARKING, ARROW, EPOXY
 - 10 PAVEMENT MARKING, MARKING DOTTED EXTENSION EPOXY, 18-INCH

*WHITE DOT PATTERNS
 - 6' LINE, 3' SKIP
 - 3' LINE, 9' SKIP

NOTE 2:
 DO NOT PAINT: CROSSWALKS
 ISLAND NOSES
 DIAGONAL MARKINGS



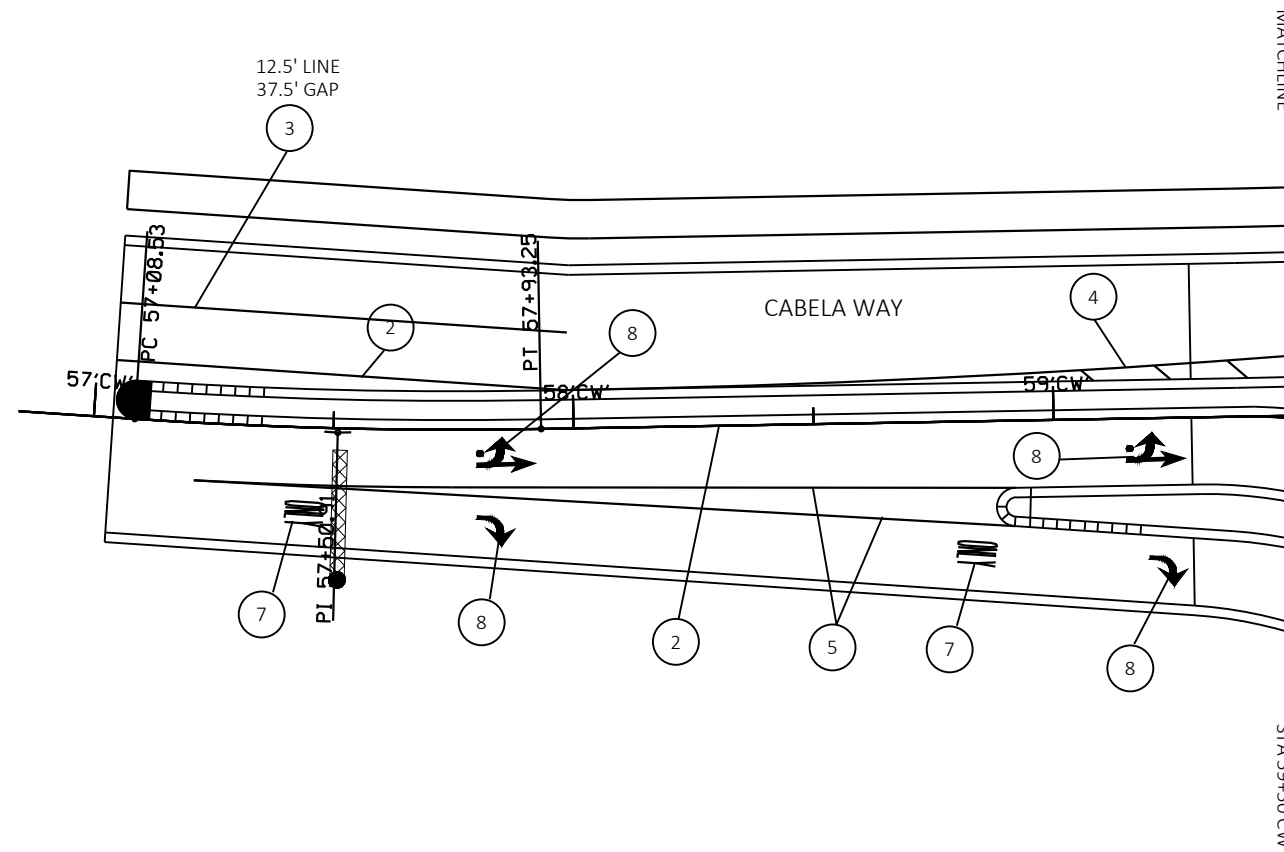
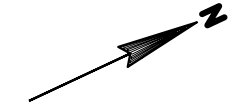
NOTES:
 1. "PAINT ONLY" WHITE PORTION OF CONTRAST (LONG LINE AND OR SPECIAL MARKINGS) WHERE APPLICABLE.

INFORMATION ONLY ITEM #203

- LEGEND**
- 1 PAVEMENT MARKING, EPOXY, 4-INCH (WHITE)
 - 2 PAVEMENT MARKING, EPOXY, 4-INCH (YELLOW)
 - 3 PAVEMENT MARKING, EPOXY, 4-INCH (YELLOW), 12.5 FT LINE, 37.5' (SKIP)
 - 4 PAVEMENT MARKING, EPOXY, 4-INCH (DOUBLE YELLOW)
 - 5 PAVEMENT MARKING, 8-INCH (WHITE) INCL*
 - 6 PAVEMENT MARKING, STOPLINE EPOXY, 18-INCH (WHITE)
 - 7 PAVEMENT MARKING, WORDS, EPOXY
 - 8 PAVEMENT MARKING, ARROW, EPOXY
 - 10 PAVEMENT MARKING, MARKING DOTTED EXTENSION EPOXY, 18-INCH

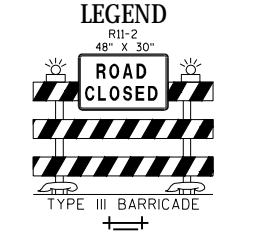
*WHITE DOT PATTERNS
 - 6' LINE, 3' SKIP
 - 3' LINE, 9' SKIP

NOTE 2:
 DO NOT PAINT: CROSSWALKS
 ISLAND NOSES
 DIAGONAL MARKINGS



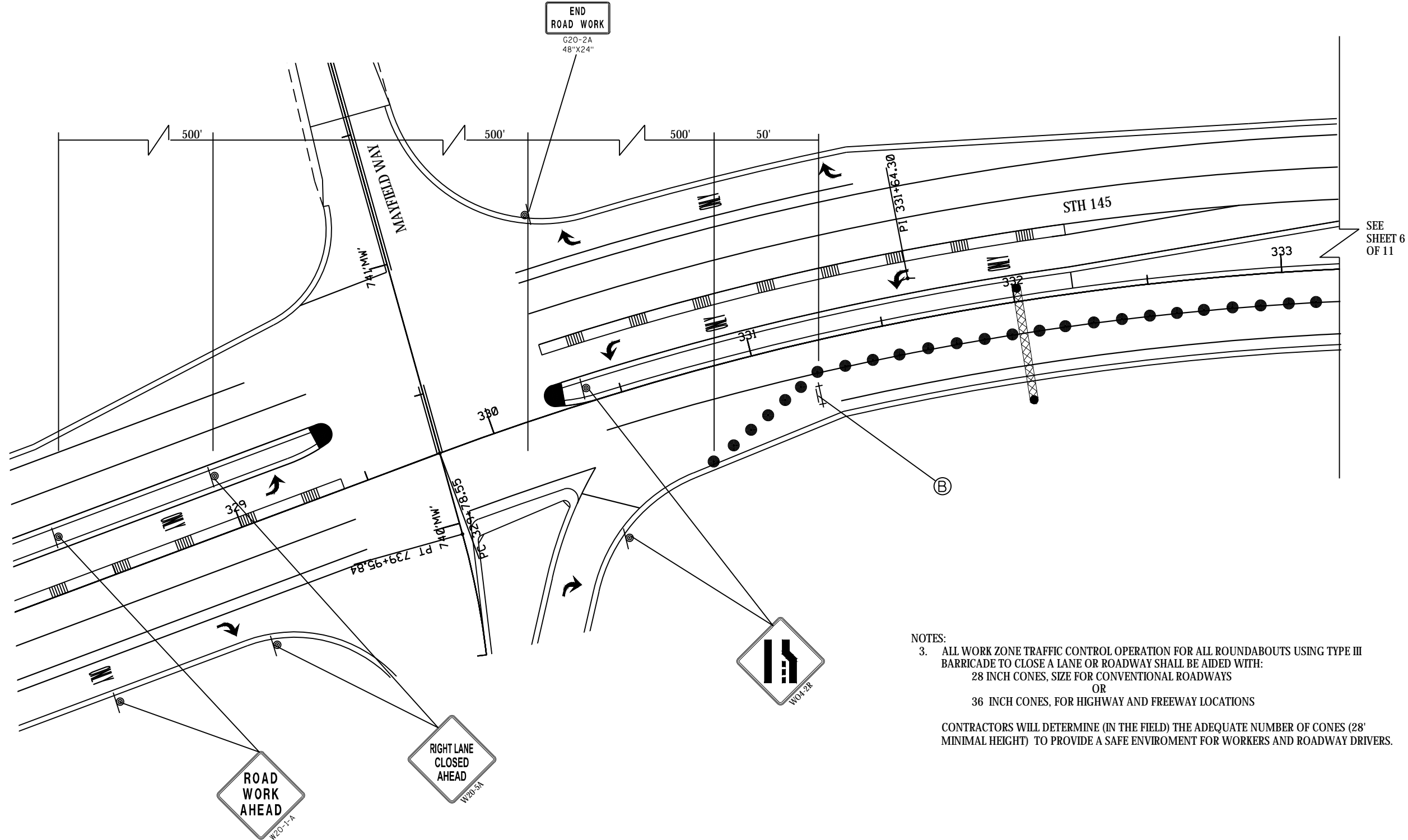
NOTES:
 1. "PAINT ONLY" WHITE PORTION OF CONTRAST
 (LONG LINE AND OR SPECIAL MARKINGS) WHERE APPLICABLE.

TRAFFIC CONTROL STAGE 5 CLOSURE



INFORMATION ONLY ITEM #203

NOTE 2:
DO NOT PAINT: CROSSWALKS



SECTION DETAIL:
 STAGE 5 LEFT LANE CLOSE
 STAGE 6 RIGHT LANE CLOSE

LEGEND

- 28" CONSTRUCTION CONES (MAX 10' DISTANCE)
- ⓑ LANE CLOSED, TYPE III BARRICADE

NOTE: 48" X 48" FOR DIAMOND WARNING SIGNS

NOTES:

3. ALL WORK ZONE TRAFFIC CONTROL OPERATION FOR ALL ROUNDABOUTS USING TYPE III BARRICADE TO CLOSE A LANE OR ROADWAY SHALL BE AIDED WITH:
 28 INCH CONES, SIZE FOR CONVENTIONAL ROADWAYS
 OR
 36 INCH CONES, FOR HIGHWAY AND FREEWAY LOCATIONS

CONTRACTORS WILL DETERMINE (IN THE FIELD) THE ADEQUATE NUMBER OF CONES (28' MINIMAL HEIGHT) TO PROVIDE A SAFE ENVIROMENT FOR WORKERS AND ROADWAY DRIVERS.

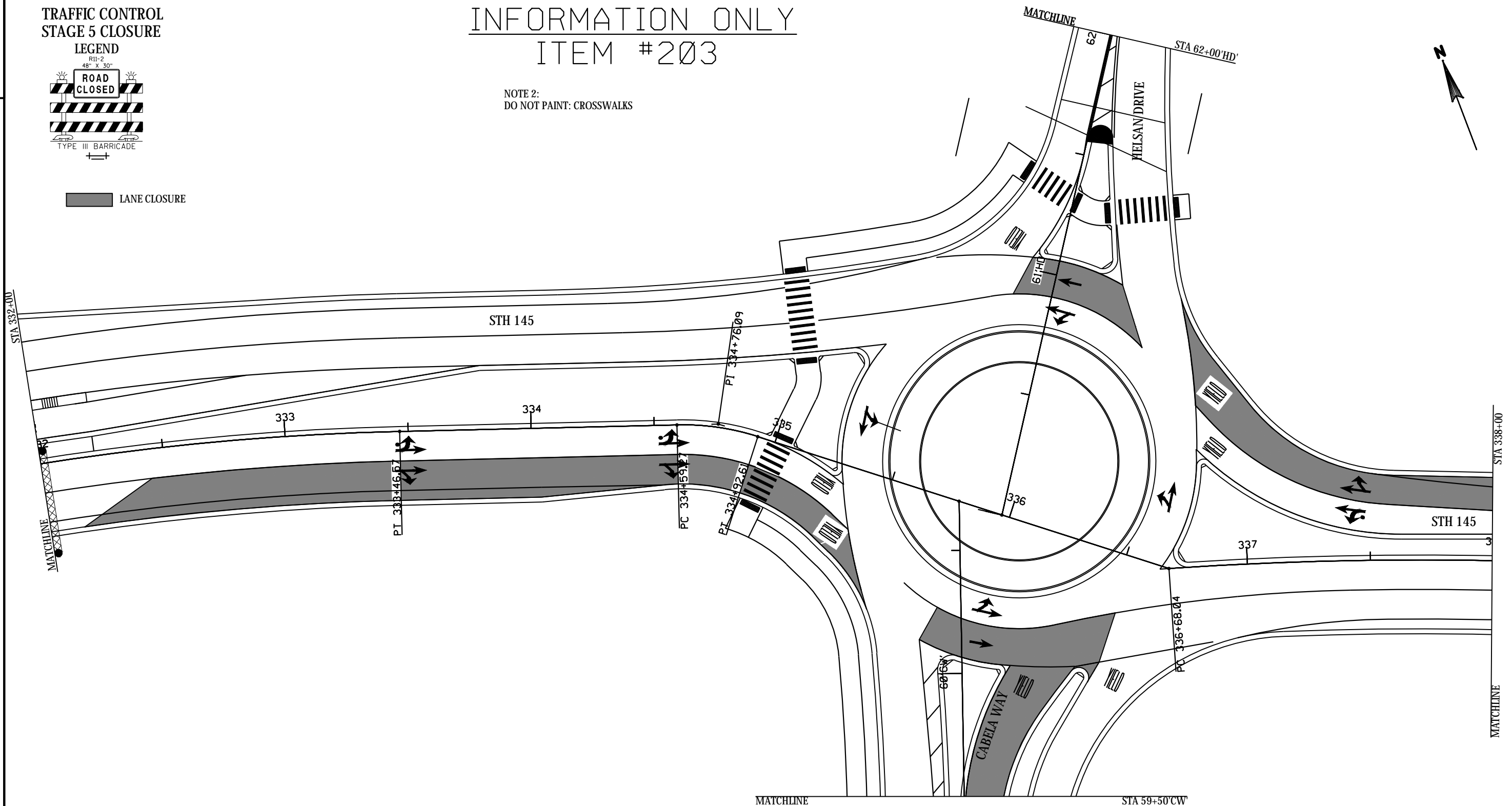
SEE SHEET 6 OF 11

TRAFFIC CONTROL STAGE 5 CLOSURE

INFORMATION ONLY ITEM #203



NOTE 2:
DO NOT PAINT: CROSSWALKS

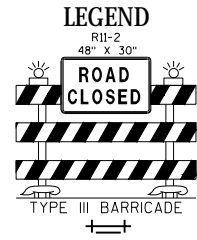


NOTE:
3. ALL WORK ZONE TRAFFIC CONTROL OPERATION FOR ALL ROUNDABOUTS USING TYPE III BARRICADE TO CLOSE A LANE OR ROADWAY SHALL BE AIDED WITH:
28 INCH CONES, SIZE FOR CONVENTIONAL ROADWAYS
OR
36 INCH CONES, FOR HIGHWAY AND FREEWAY LOCATIONS

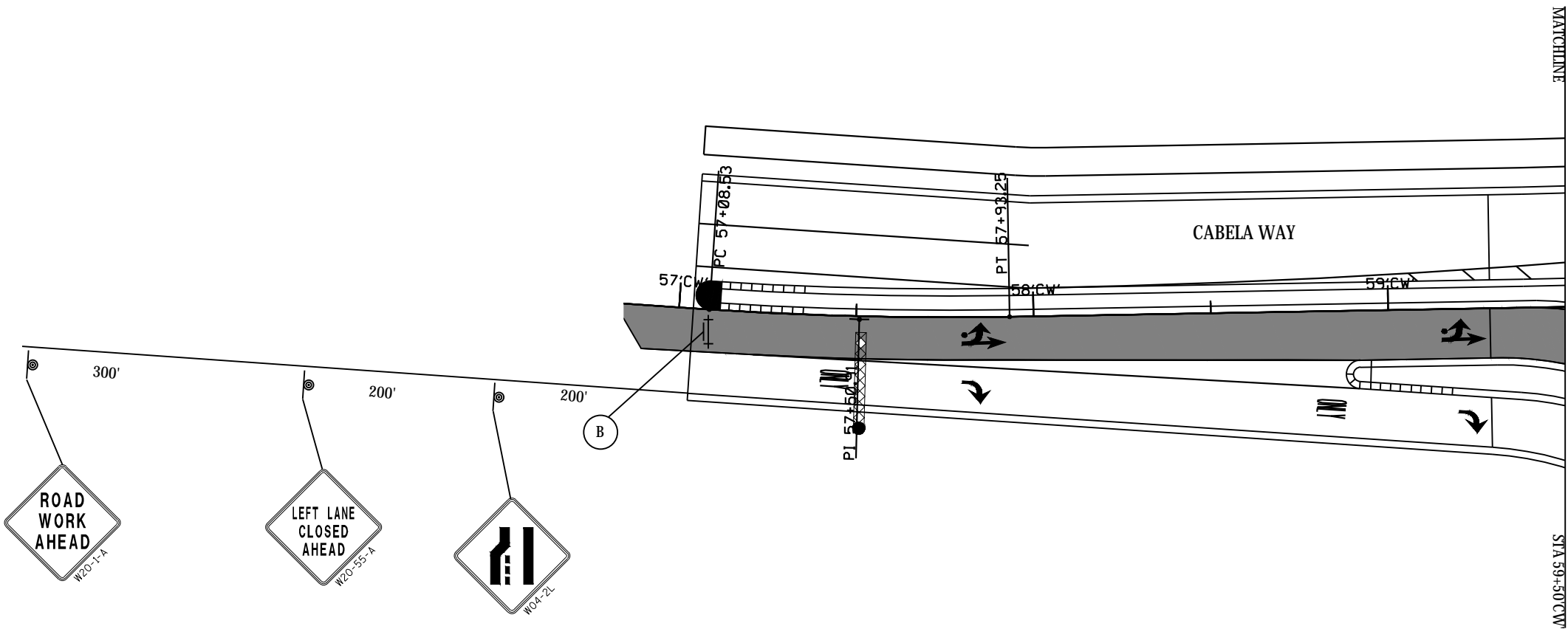
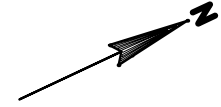
CONTRACTORS WILL DETERMINE (IN THE FIELD) THE ADEQUATE NUMBER OF CONES (28' MINIMAL HEIGHT) TO PROVIDE A SAFE ENVIRONMENT FOR WORKERS AND ROADWAY DRIVERS.

TRAFFIC CONTROL
STAGE 5 CLOSURE

INFORMATION ONLY
ITEM #203



LANE CLOSURE



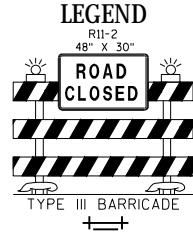
NOTES:

- 3. ALL WORK ZONE TRAFFIC CONTROL OPERATION FOR ALL ROUNDABOUTS USING TYPE III BARRICADE TO CLOSE A LANE OR ROADWAY SHALL BE AIDED WITH:
28 INCH CONES, SIZE FOR CONVENTIONAL ROADWAYS
OR
36 INCH CONES, FOR HIGHWAY AND FREEWAY LOCATIONS

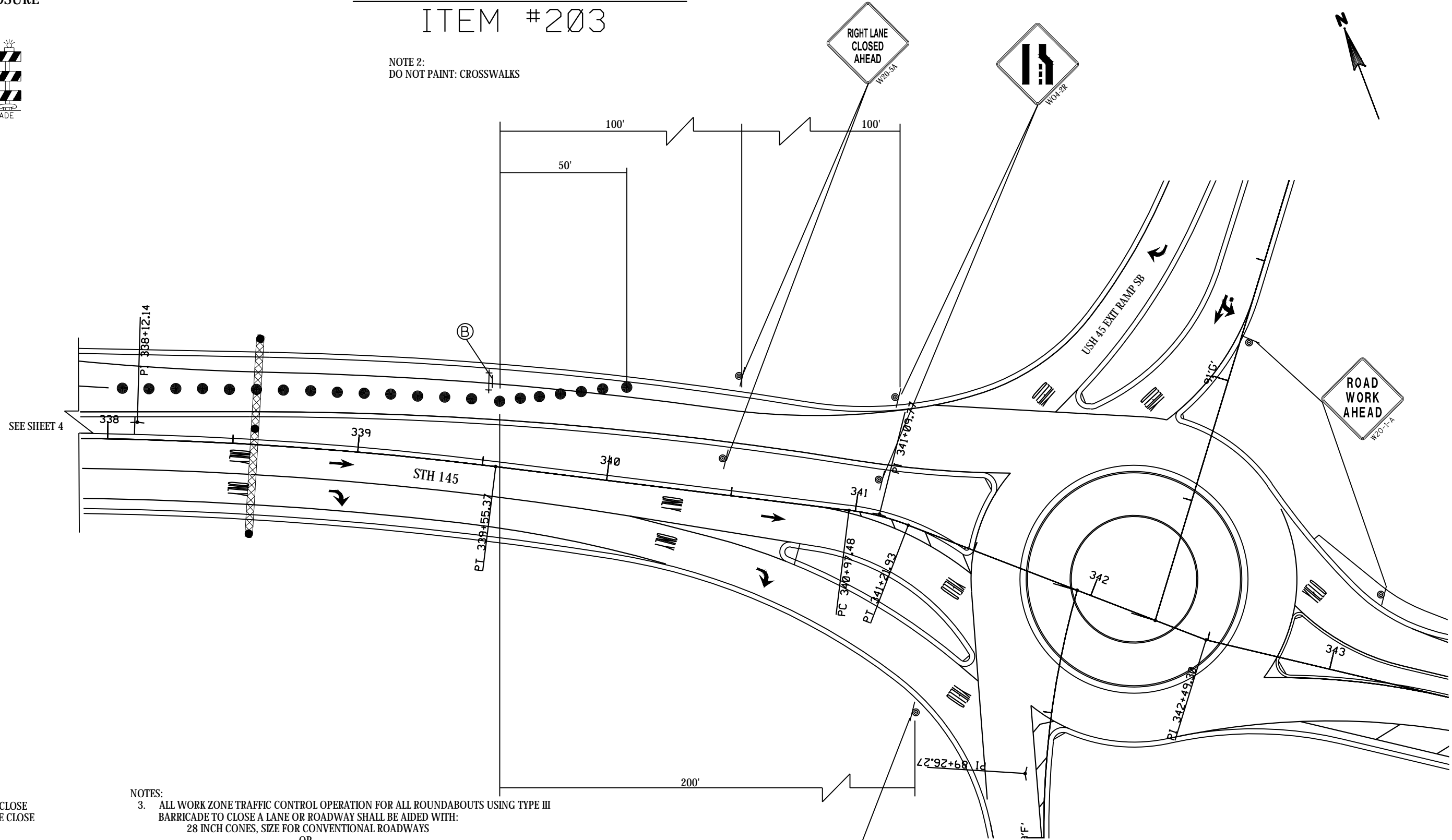
CONTRACTORS WILL DETERMINE (IN THE FIELD) THE ADEQUATE NUMBER OF CONES (28' MINIMAL HEIGHT) TO PROVIDE A SAFE ENVIROMENT FOR WORKERS AND ROADWAY DRIVERS.

TRAFFIC CONTROL STAGE 5 CLOSURE

INFORMATION ONLY ITEM #203



NOTE 2:
DO NOT PAINT: CROSSWALKS



SECTION DETAIL:
 STAGE 5 LEFT LANE CLOSE
 STAGE 6 RIGHT LANE CLOSE

- LEGEND**
- 28" CONSTRUCTION CONES (MAX 10' DISTANCE)
 - Ⓟ LANE CLOSED, TYPE III BARRICADE

NOTE: 48"X48" FOR DIAMOND WARNING SIGNS

NOTES:

3. ALL WORK ZONE TRAFFIC CONTROL OPERATION FOR ALL ROUNDABOUTS USING TYPE III BARRICADE TO CLOSE A LANE OR ROADWAY SHALL BE AIDED WITH:
 28 INCH CONES, SIZE FOR CONVENTIONAL ROADWAYS
 OR
 36 INCH CONES, FOR HIGHWAY AND FREEWAY LOCATIONS

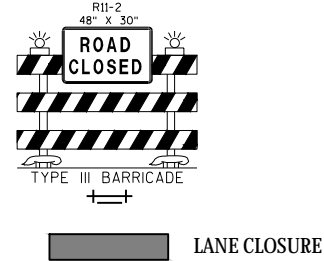
CONTRACTORS WILL DETERMINE (IN THE FIELD) THE ADEQUATE NUMBER OF CONES (28" MINIMAL HEIGHT) TO PROVIDE A SAFE ENVIROMENT FOR WORKERS AND ROADWAY DRIVERS.



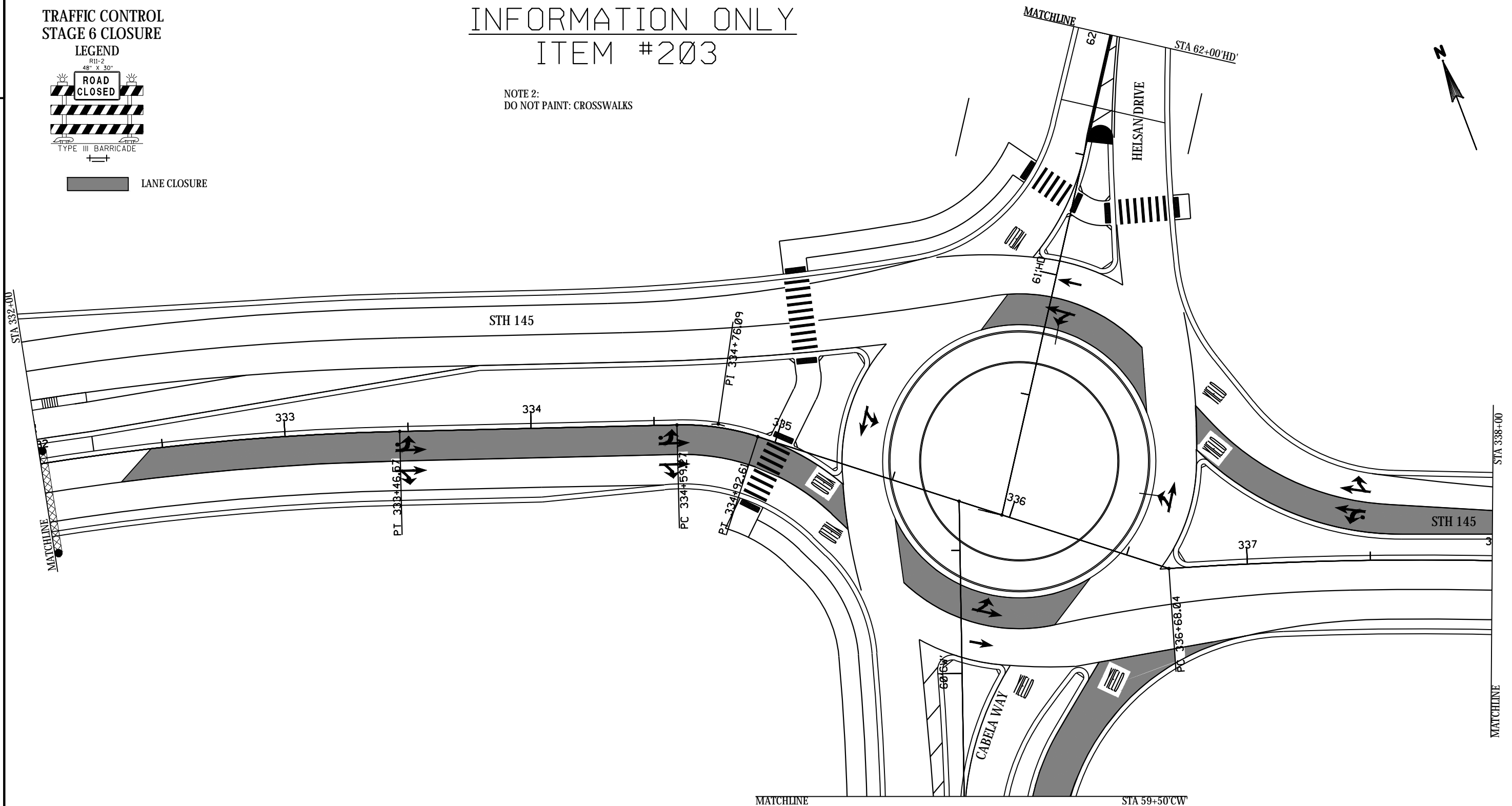
TRAFFIC CONTROL STAGE 6 CLOSURE

INFORMATION ONLY ITEM #203

LEGEND



NOTE 2:
DO NOT PAINT: CROSSWALKS

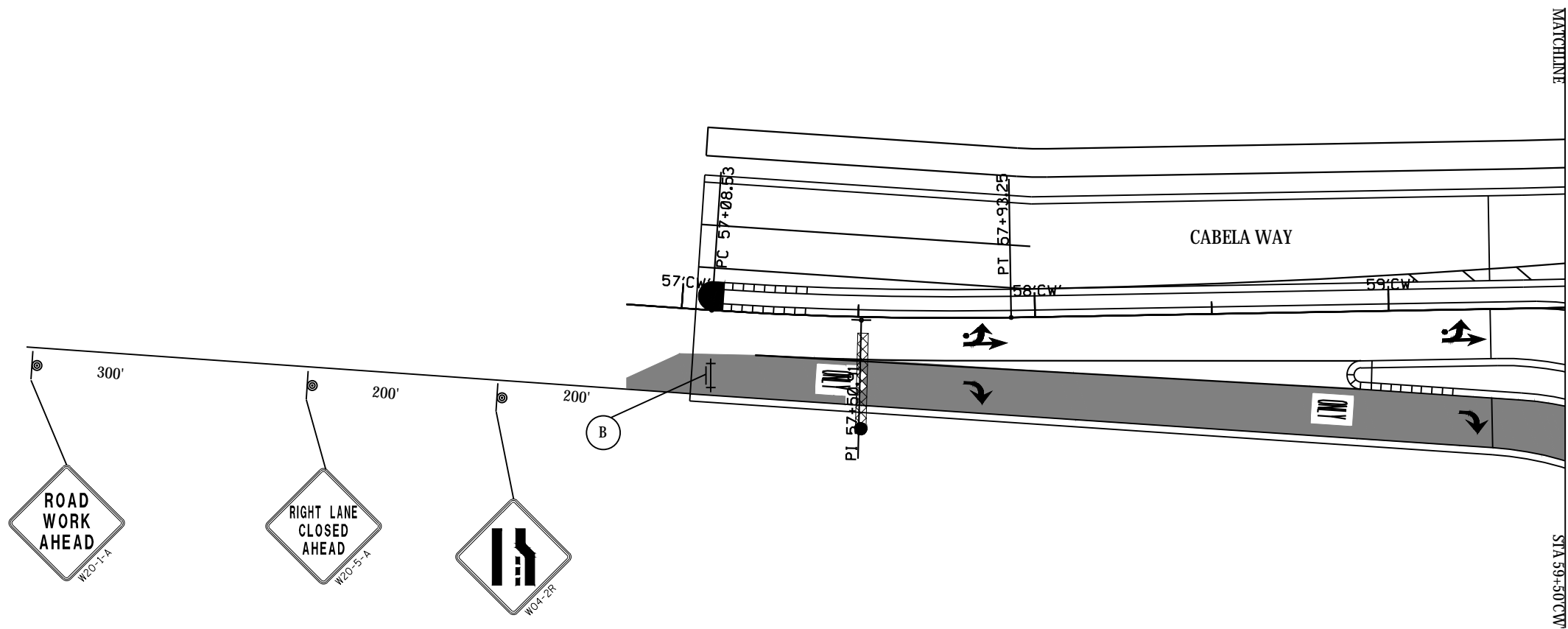
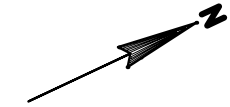


NOTE:
 3. ALL WORK ZONE TRAFFIC CONTROL OPERATION FOR ALL ROUNDABOUTS USING TYPE III BARRICADE TO CLOSE A LANE OR ROADWAY SHALL BE AIDED WITH:
 28 INCH CONES, SIZE FOR CONVENTIONAL ROADWAYS
 OR
 36 INCH CONES, FOR HIGHWAY AND FREEWAY LOCATIONS

CONTRACTORS WILL DETERMINE (IN THE FIELD) THE ADEQUATE NUMBER OF CONES (28' MINIMAL HEIGHT) TO PROVIDE A SAFE ENVIRONMENT FOR WORKERS AND ROADWAY DRIVERS.

TRAFFIC CONTROL
STAGE 6 CLOSURE

INFORMATION ONLY
ITEM #203



NOTES:

- 3. ALL WORK ZONE TRAFFIC CONTROL OPERATION FOR ALL ROUNDABOUTS USING TYPE III BARRICADE TO CLOSE A LANE OR ROADWAY SHALL BE AIDED WITH:
28 INCH CONES, SIZE FOR CONVENTIONAL ROADWAYS
OR
36 INCH CONES, FOR HIGHWAY AND FREEWAY LOCATIONS

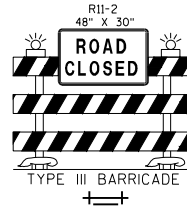
CONTRACTORS WILL DETERMINE (IN THE FIELD) THE ADEQUATE NUMBER OF CONES (28' MINIMAL HEIGHT) TO PROVIDE A SAFE ENVIROMENT FOR WORKERS AND ROADWAY DRIVERS.

TRAFFIC CONTROL
STAGE 6 CLOSURE

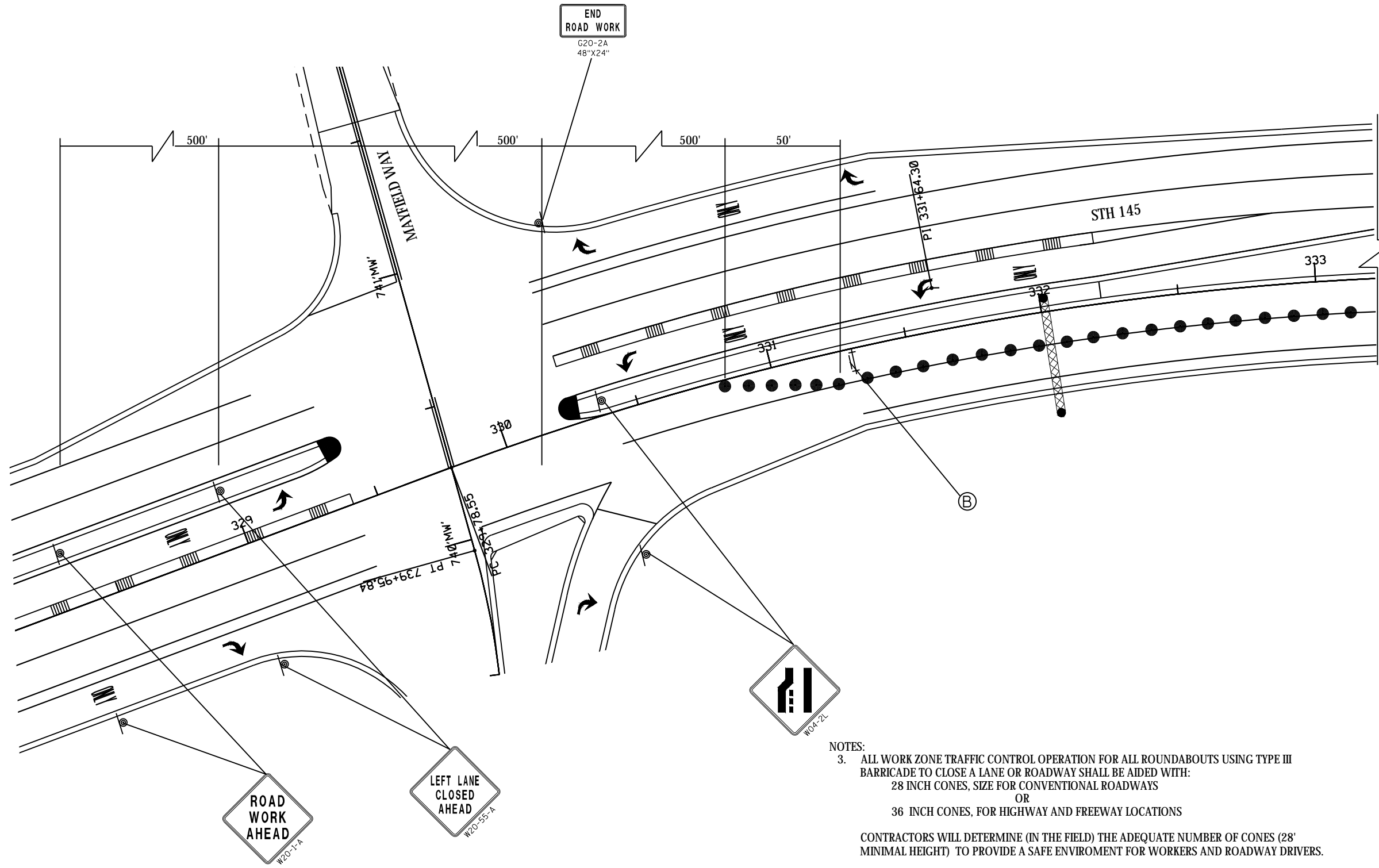
INFORMATION ONLY
ITEM #203



LEGEND



NOTE 2:
DO NOT PAINT: CROSSWALKS



SEE SHEET
10 OF 11

SECTION DETAIL:
STAGE 5 LEFT LANE CLOSE
STAGE 6 RIGHT LANE CLOSE

- LEGEND
- 28" CONSTRUCTION CONES (MAX 10' DISTANCE)
 - ⓑ LANE CLOSED, TYPE III BARRICADE

NOTE: 48" X 48" FOR DIAMOND WARNING SIGNS

NOTES:

3. ALL WORK ZONE TRAFFIC CONTROL OPERATION FOR ALL ROUNDABOUTS USING TYPE III BARRICADE TO CLOSE A LANE OR ROADWAY SHALL BE AIDED WITH:
28 INCH CONES, SIZE FOR CONVENTIONAL ROADWAYS
OR
36 INCH CONES, FOR HIGHWAY AND FREEWAY LOCATIONS

CONTRACTORS WILL DETERMINE (IN THE FIELD) THE ADEQUATE NUMBER OF CONES (28' MINIMAL HEIGHT) TO PROVIDE A SAFE ENVIROMENT FOR WORKERS AND ROADWAY DRIVERS.

TRAFFIC CONTROL STAGE 7 CLOSURE

INFORMATION ONLY ITEM #203

LEGEND

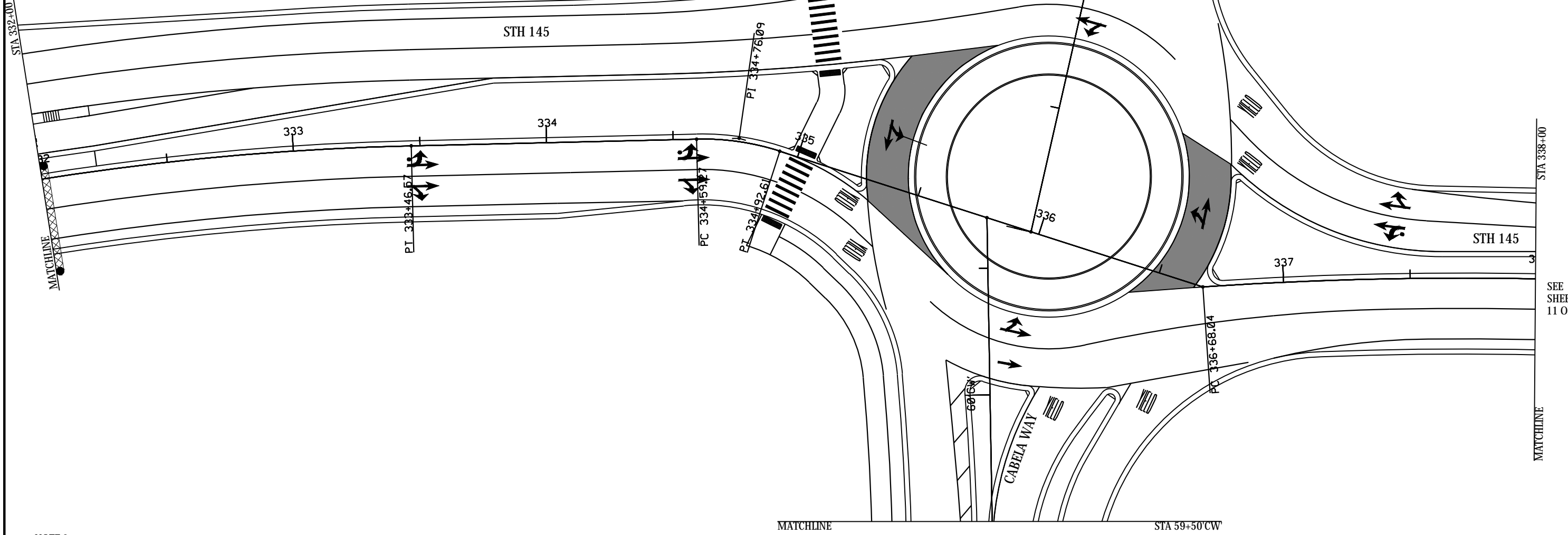
R11-2
48" X 30"



TYPE III BARRICADE

LANE CLOSURE

NOTE 2:
DO NOT PAINT: CROSSWALKS

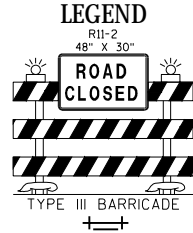


NOTE 3:
 ALL WORK ZONE TRAFFIC CONTROL OPERATION FOR ALL ROUNDABOUTS USING TYPE III BARRICADE TO CLOSE A LANE OR ROADWAY SHALL BE AIDED WITH:
 28 INCH CONES, SIZE FOR CONVENTIONAL ROADWAYS
 OR
 36 INCH CONES, FOR HIGHWAY AND FREEWAY LOCATIONS
 CONTRACTORS WILL DETERMINE (IN THE FIELD) THE ADEQUATE NUMBER OF CONES (28' MINIMAL HEIGHT) TO PROVIDE A SAFE ENVIRONMENT FOR WORKERS AND ROADWAY DRIVERS.

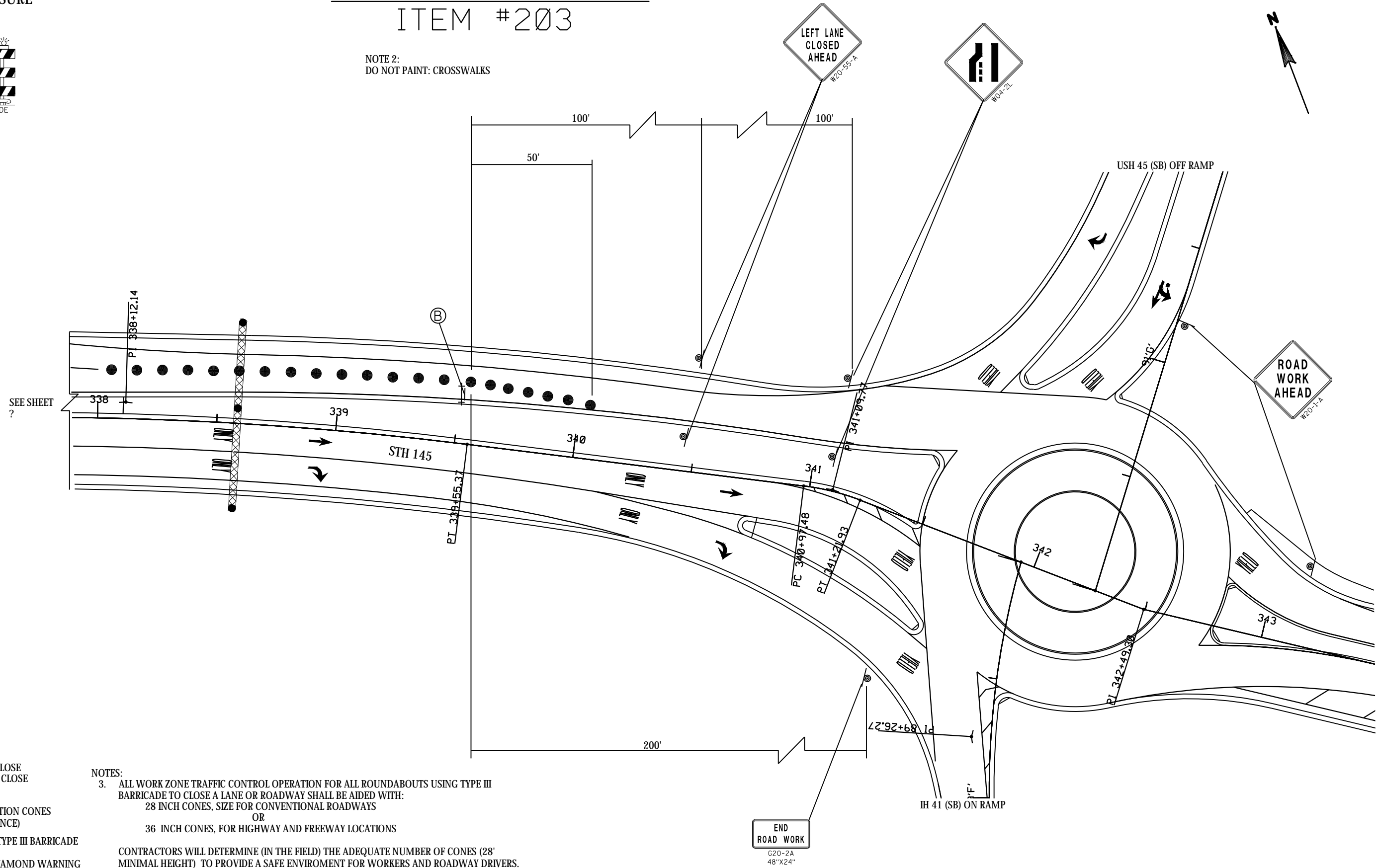
SEE SHEET 11 OF 11

TRAFFIC CONTROL STAGE 5 CLOSURE

INFORMATION ONLY ITEM #203



NOTE 2:
DO NOT PAINT: CROSSWALKS



SECTION DETAIL:
STAGE 5 LEFT LANE CLOSE
STAGE 6 RIGHT LANE CLOSE

- LEGEND**
- 28" CONSTRUCTION CONES (MAX 10' DISTANCE)
 - Ⓟ LANE CLOSED, TYPE III BARRICADE

NOTE: 48"X48" FOR DIAMOND WARNING SIGNS

- NOTES:
3. ALL WORK ZONE TRAFFIC CONTROL OPERATION FOR ALL ROUNDABOUTS USING TYPE III BARRICADE TO CLOSE A LANE OR ROADWAY SHALL BE AIDED WITH:
28 INCH CONES, SIZE FOR CONVENTIONAL ROADWAYS
OR
36 INCH CONES, FOR HIGHWAY AND FREEWAY LOCATIONS

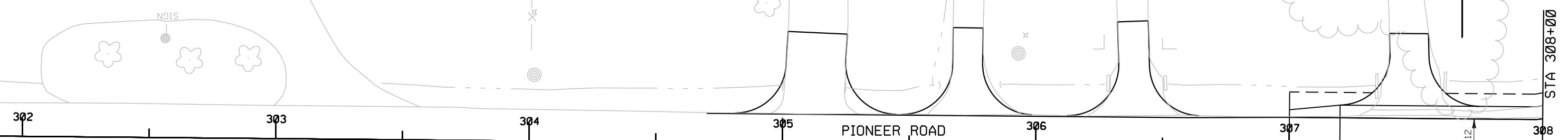
CONTRACTORS WILL DETERMINE (IN THE FIELD) THE ADEQUATE NUMBER OF CONES (28' MINIMAL HEIGHT) TO PROVIDE A SAFE ENVIROMENT FOR WORKERS AND ROADWAY DRIVERS.

2

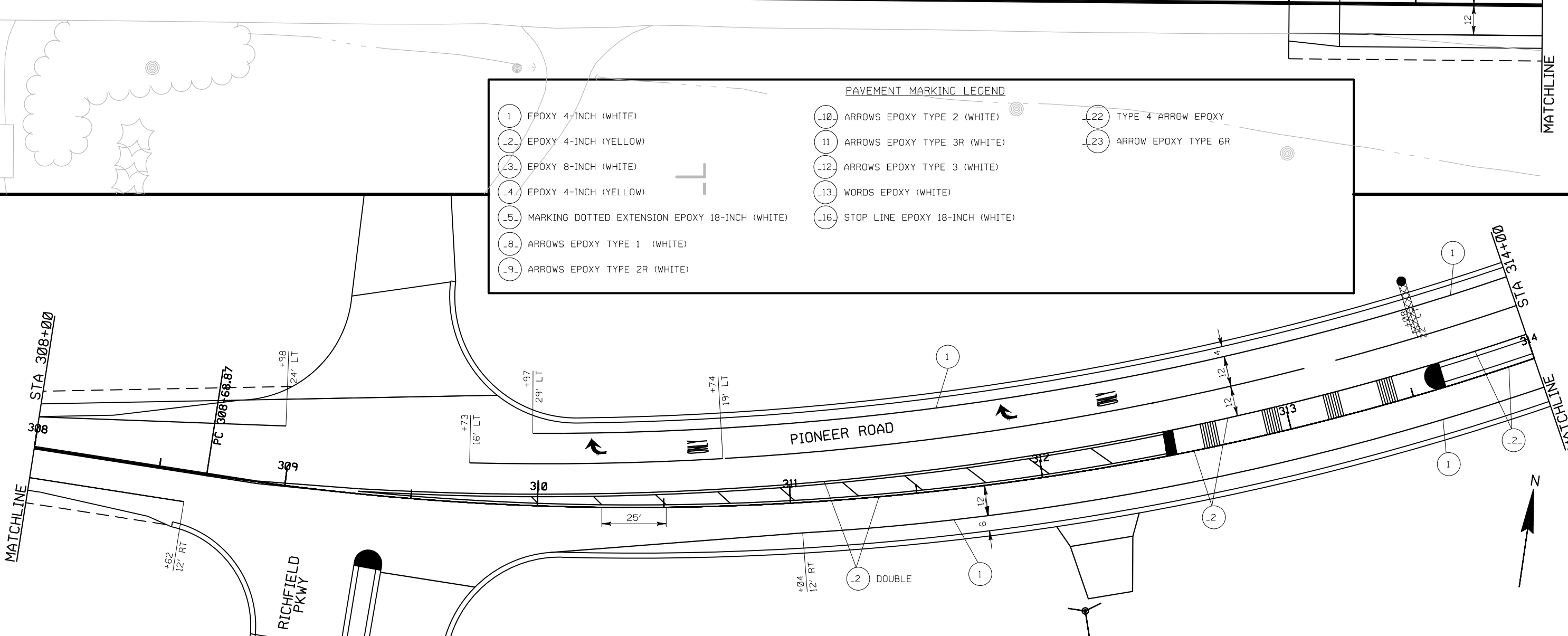
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INFORMATION ONLY ITEM #204 & 204a

NOTES:
1. "PAINT ONLY" WHITE PORTION OF CONTRAST
(LONG LINE AND OR SPECIAL MARKINGS) WHERE APPLICABLE.

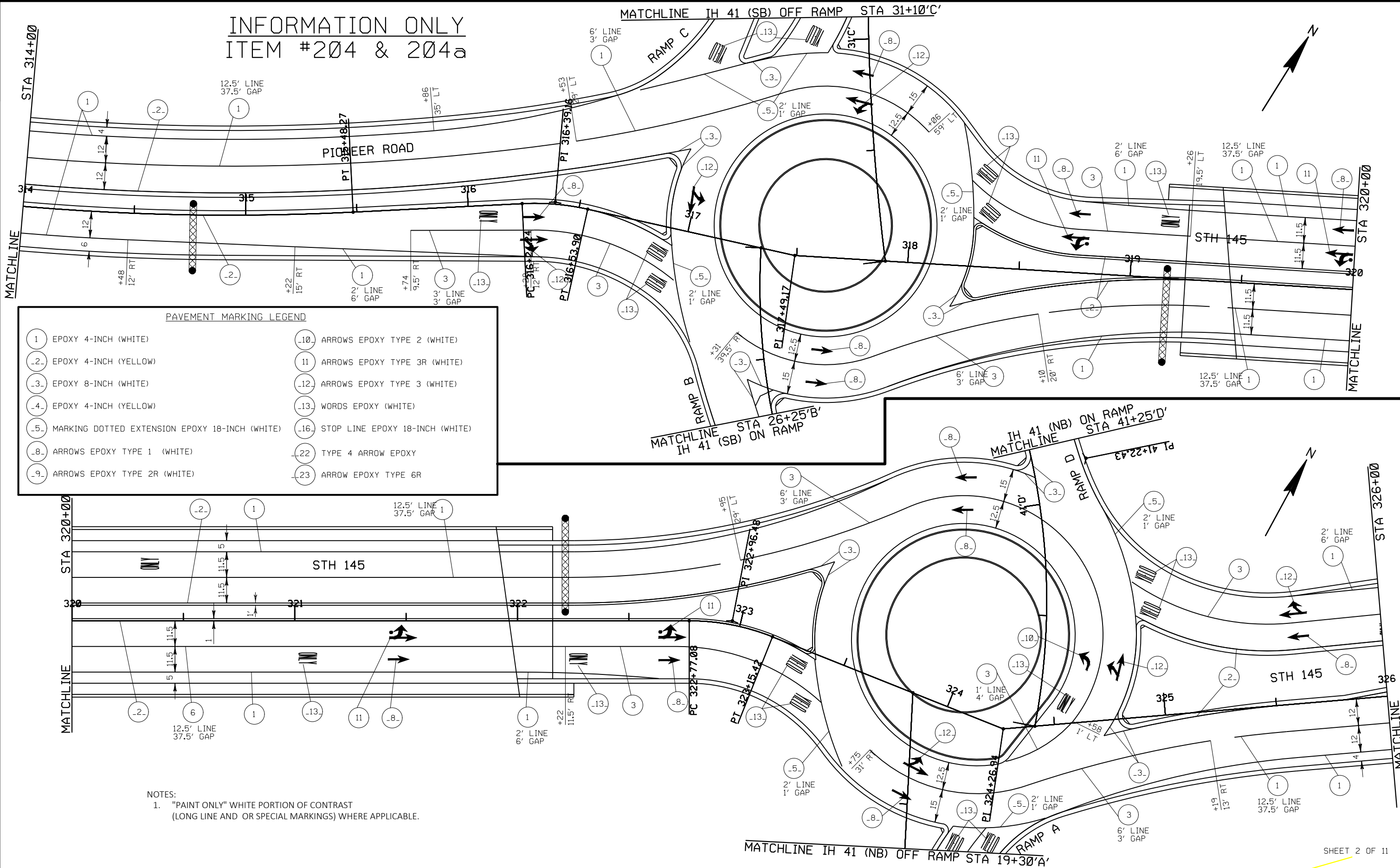


PAVEMENT MARKING LEGEND					
1	EPOXY 4-INCH (WHITE)	.10	ARROWS EPOXY TYPE 2 (WHITE)	.22	TYPE 4 ARROW EPOXY
.2	EPOXY 4-INCH (YELLOW)	.11	ARROWS EPOXY TYPE 3R (WHITE)	.23	ARROW EPOXY TYPE 6R
.3	EPOXY 8-INCH (WHITE)	.12	ARROWS EPOXY TYPE 3 (WHITE)		
.4	EPOXY 4-INCH (YELLOW)	.13	WORDS EPOXY (WHITE)		
.5	MARKING DOTTED EXTENSION EPOXY 18-INCH (WHITE)	.16	STOP LINE EPOXY 18-INCH (WHITE)		
.8	ARROWS EPOXY TYPE 1 (WHITE)				
.9	ARROWS EPOXY TYPE 2R (WHITE)				



NOTE: IF PAVEMENT MARKING SHOWN WITHOUT A () # LABEL THEN DO NOT DO THAT MARKING.

INFORMATION ONLY
ITEM #204 & 204a

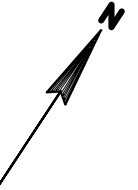


PAVEMENT MARKING LEGEND

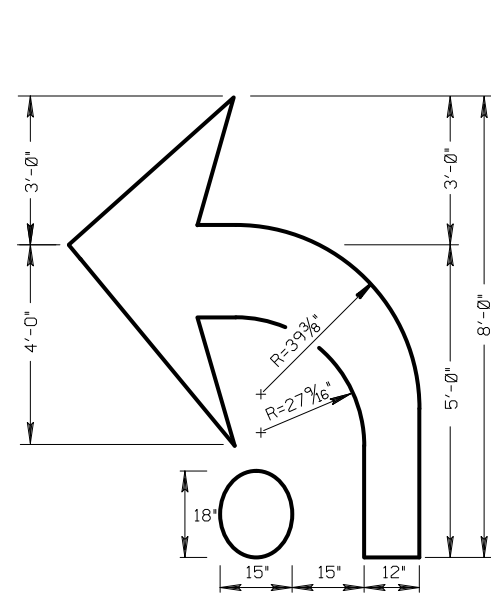
- | | |
|--|-----------------------------------|
| ① EPOXY 4-INCH (WHITE) | ⑩ ARROWS EPOXY TYPE 2 (WHITE) |
| ② EPOXY 4-INCH (YELLOW) | ⑪ ARROWS EPOXY TYPE 3R (WHITE) |
| ③ EPOXY 8-INCH (WHITE) | ⑫ ARROWS EPOXY TYPE 3 (WHITE) |
| ④ EPOXY 4-INCH (YELLOW) | ⑬ WORDS EPOXY (WHITE) |
| ⑤ MARKING DOTTED EXTENSION EPOXY 18-INCH (WHITE) | ⑭ STOP LINE EPOXY 18-INCH (WHITE) |
| ⑧ ARROWS EPOXY TYPE 1 (WHITE) | ⑲ TYPE 4 ARROW EPOXY |
| ⑨ ARROWS EPOXY TYPE 2R (WHITE) | ⑳ ARROW EPOXY TYPE 6R |

NOTES:
1. "PAINT ONLY" WHITE PORTION OF CONTRAST (LONG LINE AND OR SPECIAL MARKINGS) WHERE APPLICABLE.

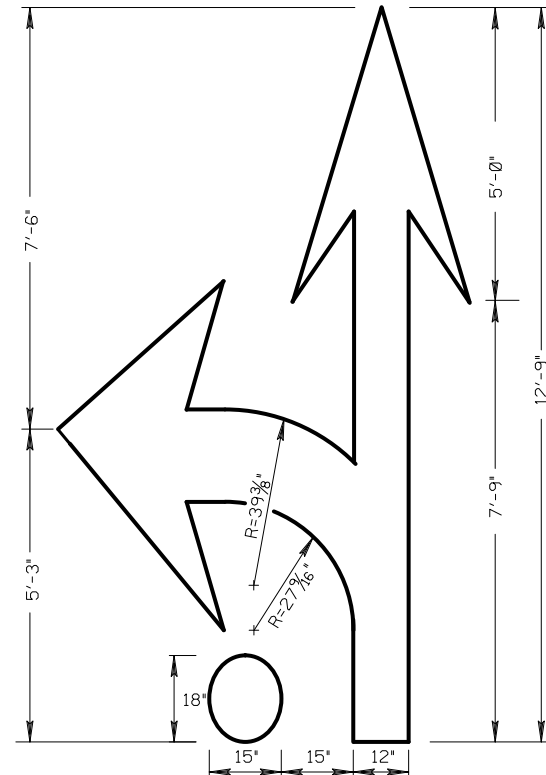
INFORMATION ONLY ITEM #204 & 204a



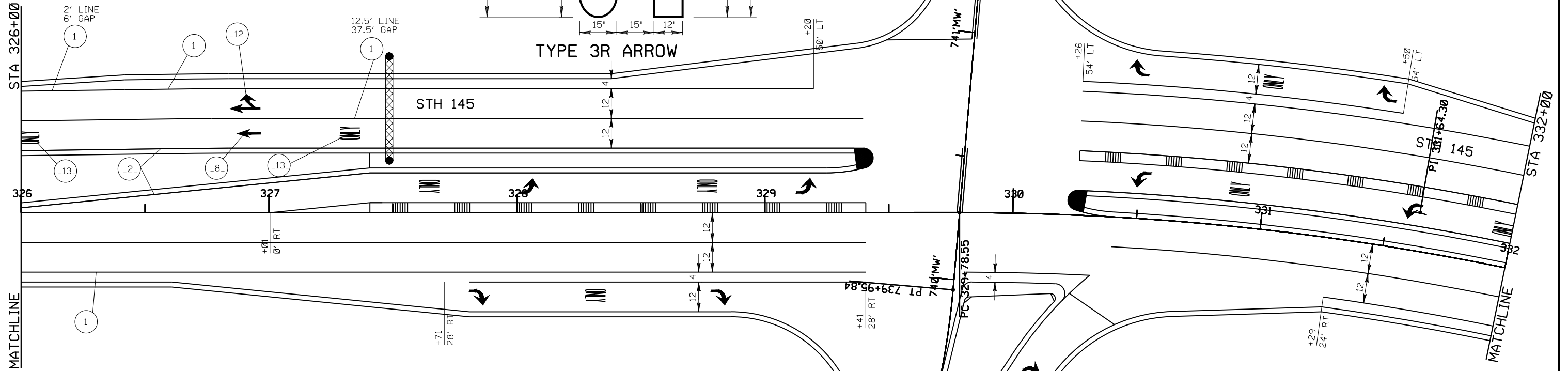
NOTES:
1. "PAINT ONLY" WHITE PORTION OF CONTRAST
(LONG LINE AND OR SPECIAL MARKINGS) WHERE APPLICABLE.



TYPE 2R ARROW



TYPE 3R ARROW



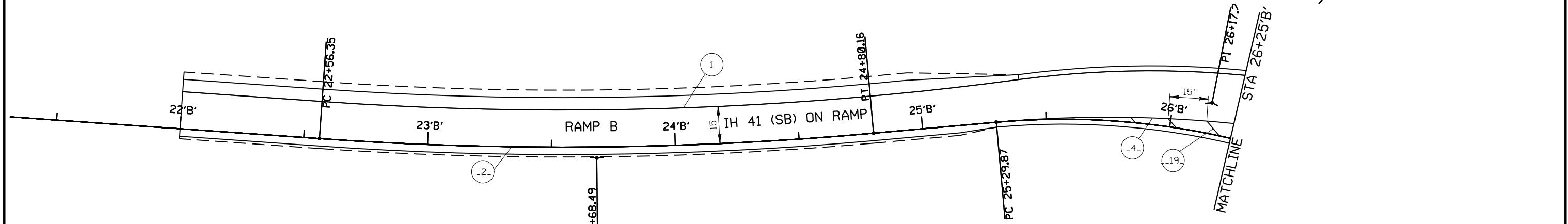
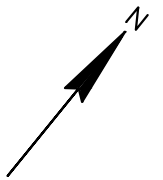
PAVEMENT MARKING LEGEND

- | | | |
|--|-----------------------------------|-----------------------|
| ① EPOXY 4-INCH (WHITE) | ⑩ ARROWS EPOXY TYPE 2 (WHITE) | ⑳ TYPE 4 ARROW EPOXY |
| ② EPOXY 4-INCH (YELLOW) | ⑪ ARROWS EPOXY TYPE 3R (WHITE) | ㉑ ARROW EPOXY TYPE 6R |
| ③ EPOXY 8-INCH (WHITE) | ⑫ ARROWS EPOXY TYPE 3 (WHITE) | |
| ④ EPOXY 4-INCH (YELLOW) | ⑬ WORDS EPOXY (WHITE) | |
| ⑤ MARKING DOTTED EXTENSION EPOXY 18-INCH (WHITE) | ⑭ STOP LINE EPOXY 18-INCH (WHITE) | |
| ⑧ ARROWS EPOXY TYPE 1 (WHITE) | | |
| ⑨ ARROWS EPOXY TYPE 2R (WHITE) | | |

INFORMATION ONLY
ITEM #204 & 204a

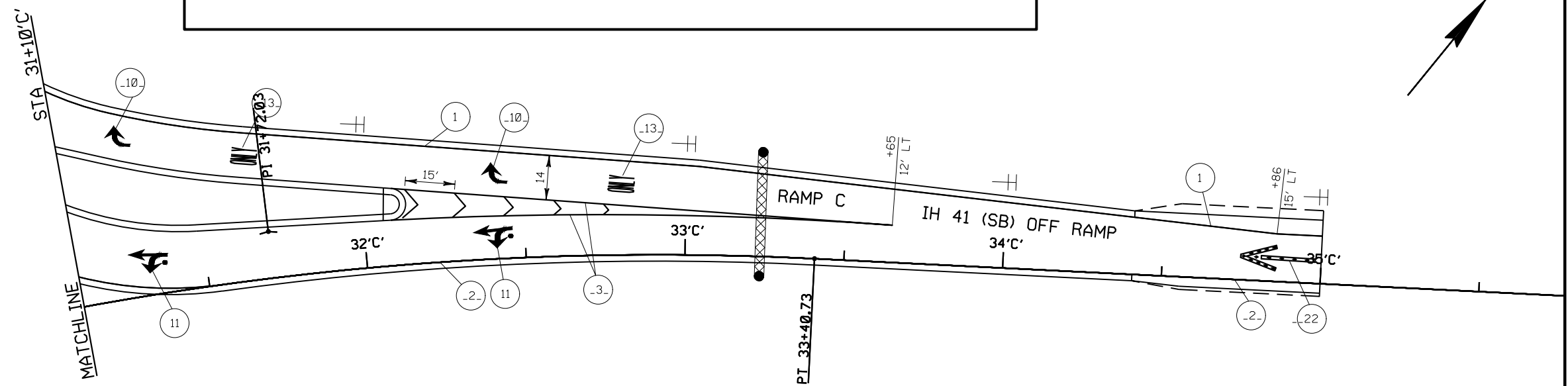
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2



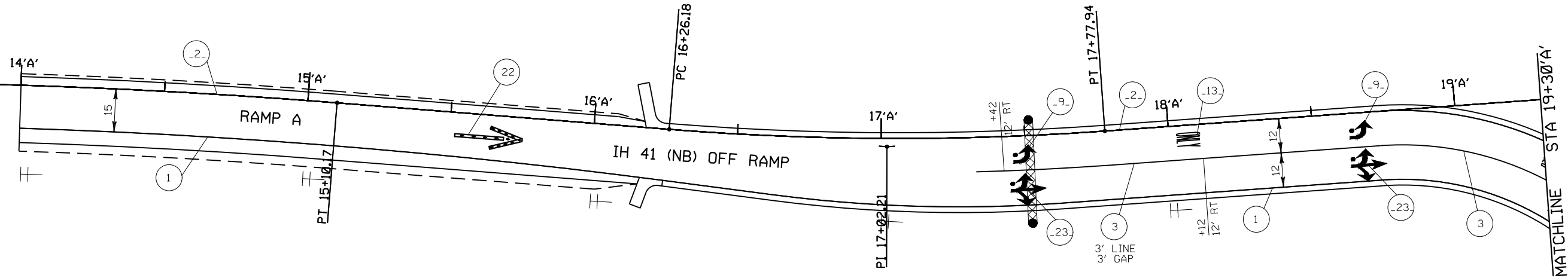
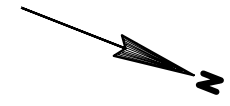
PAVEMENT MARKING LEGEND

(1) EPOXY 4-INCH (WHITE)	(.10) ARROWS EPOXY TYPE 2 (WHITE)
(.2) EPOXY 4-INCH (YELLOW)	(11) ARROWS EPOXY TYPE 3R (WHITE)
(.3) EPOXY 8-INCH (WHITE)	(.12) ARROWS EPOXY TYPE 3 (WHITE)
(.4) EPOXY 4-INCH (YELLOW)	(.13) WORDS EPOXY (WHITE)
(.5) MARKING DOTTED EXTENSION EPOXY 18-INCH (WHITE)	(.16) STOP LINE EPOXY 18-INCH (WHITE)
(.8) ARROWS EPOXY TYPE 1 (WHITE)	(.22) TYPE 4 ARROW EPOXY
(.9) ARROWS EPOXY TYPE 2R (WHITE)	(.23) ARROW EPOXY TYPE 6R



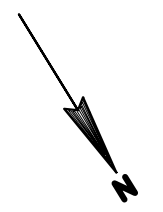
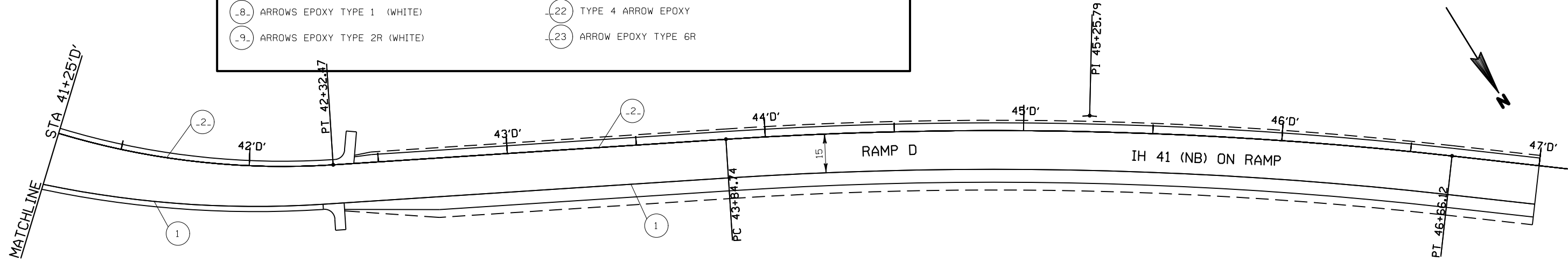
NOTES:
1. "PAINT ONLY" WHITE PORTION OF CONTRAST (LONG LINE AND OR SPECIAL MARKINGS) WHERE APPLICABLE.

INFORMATION ONLY ITEM #204 & 204a



PAVEMENT MARKING LEGEND

1 EPOXY 4-INCH (WHITE)	.10 ARROWS EPOXY TYPE 2 (WHITE)
.2 EPOXY 4-INCH (YELLOW)	11 ARROWS EPOXY TYPE 3R (WHITE)
.3 EPOXY 8-INCH (WHITE)	.12 ARROWS EPOXY TYPE 3 (WHITE)
.4 EPOXY 4-INCH (YELLOW)	.13 WORDS EPOXY (WHITE)
.5 MARKING DOTTED EXTENSION EPOXY 18-INCH (WHITE)	.16 STOP LINE EPOXY 18-INCH (WHITE)
.8 ARROWS EPOXY TYPE 1 (WHITE)	.22 TYPE 4 ARROW EPOXY
.9 ARROWS EPOXY TYPE 2R (WHITE)	.23 ARROW EPOXY TYPE 6R



NOTES:
1. "PAINT ONLY" WHITE PORTION OF CONTRAST
(LONG LINE AND OR SPECIAL MARKINGS) WHERE APPLICABLE.

2

TRAFFIC CONTROL STAGE A CLOSURE

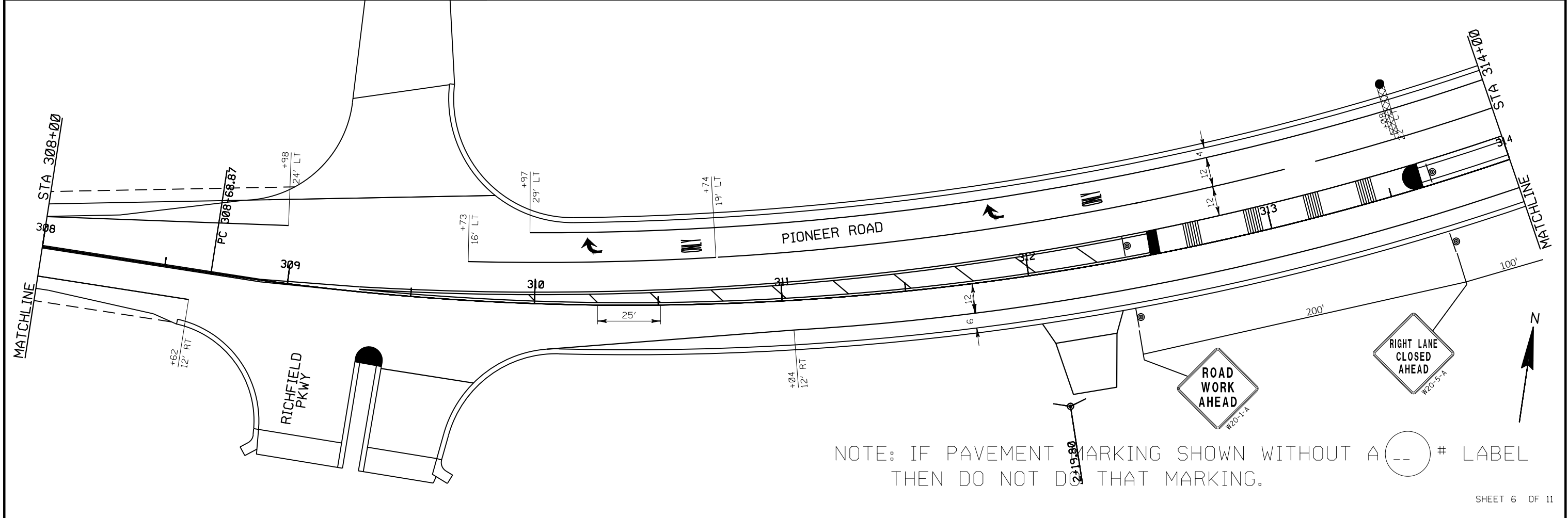
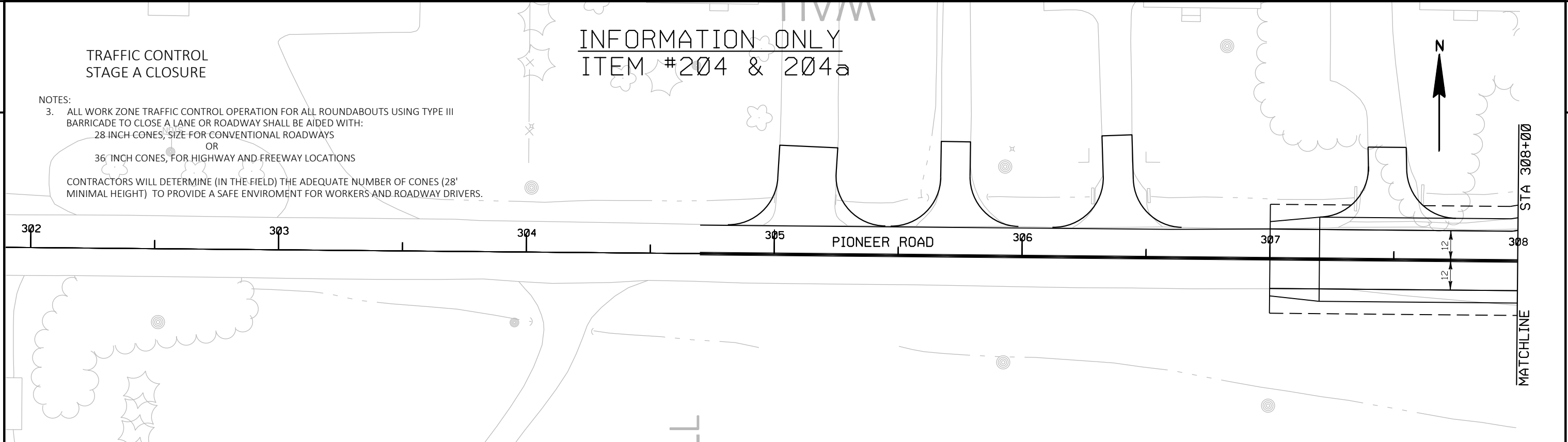
NOTES:

- 3. ALL WORK ZONE TRAFFIC CONTROL OPERATION FOR ALL ROUNDABOUTS USING TYPE III BARRICADE TO CLOSE A LANE OR ROADWAY SHALL BE AIDED WITH:
28-INCH CONES, SIZE FOR CONVENTIONAL ROADWAYS
OR
36-INCH CONES, FOR HIGHWAY AND FREEWAY LOCATIONS

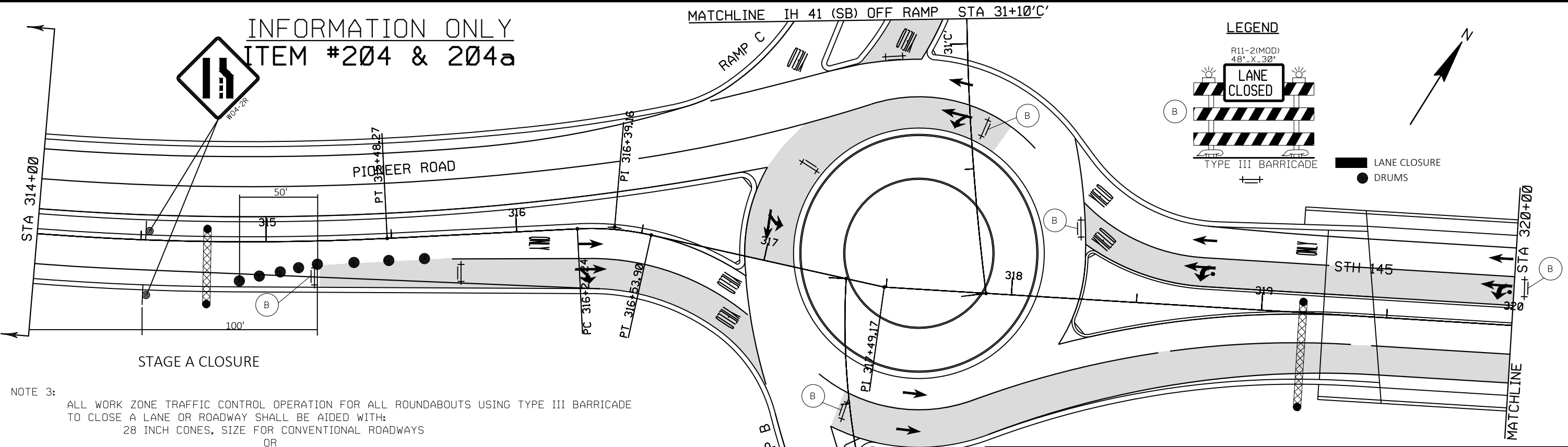
CONTRACTORS WILL DETERMINE (IN THE FIELD) THE ADEQUATE NUMBER OF CONES (28' MINIMAL HEIGHT) TO PROVIDE A SAFE ENVIROMENT FOR WORKERS AND ROADWAY DRIVERS.

INFORMATION ONLY ITEM #204 & 204a

2



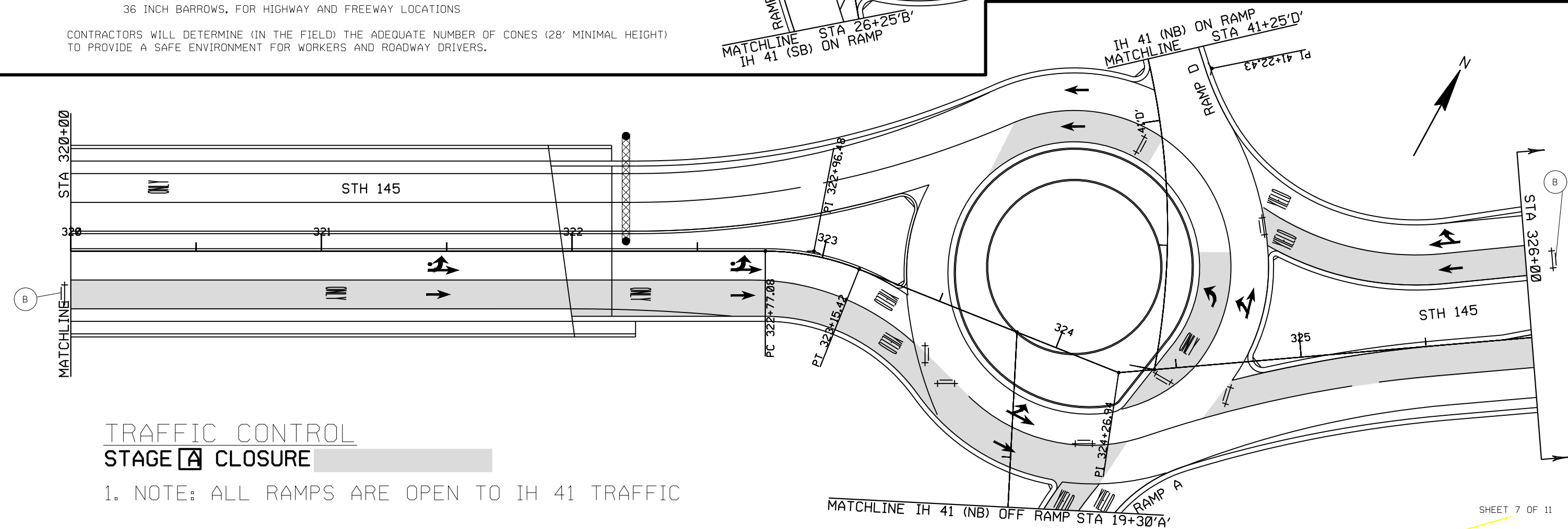
INFORMATION ONLY
ITEM #204 & 204a



STAGE A CLOSURE

NOTE 3:
ALL WORK ZONE TRAFFIC CONTROL OPERATION FOR ALL ROUNDABOUTS USING TYPE III BARRICADE TO CLOSE A LANE OR ROADWAY SHALL BE AIDED WITH:
28 INCH CONES, SIZE FOR CONVENTIONAL ROADWAYS
OR
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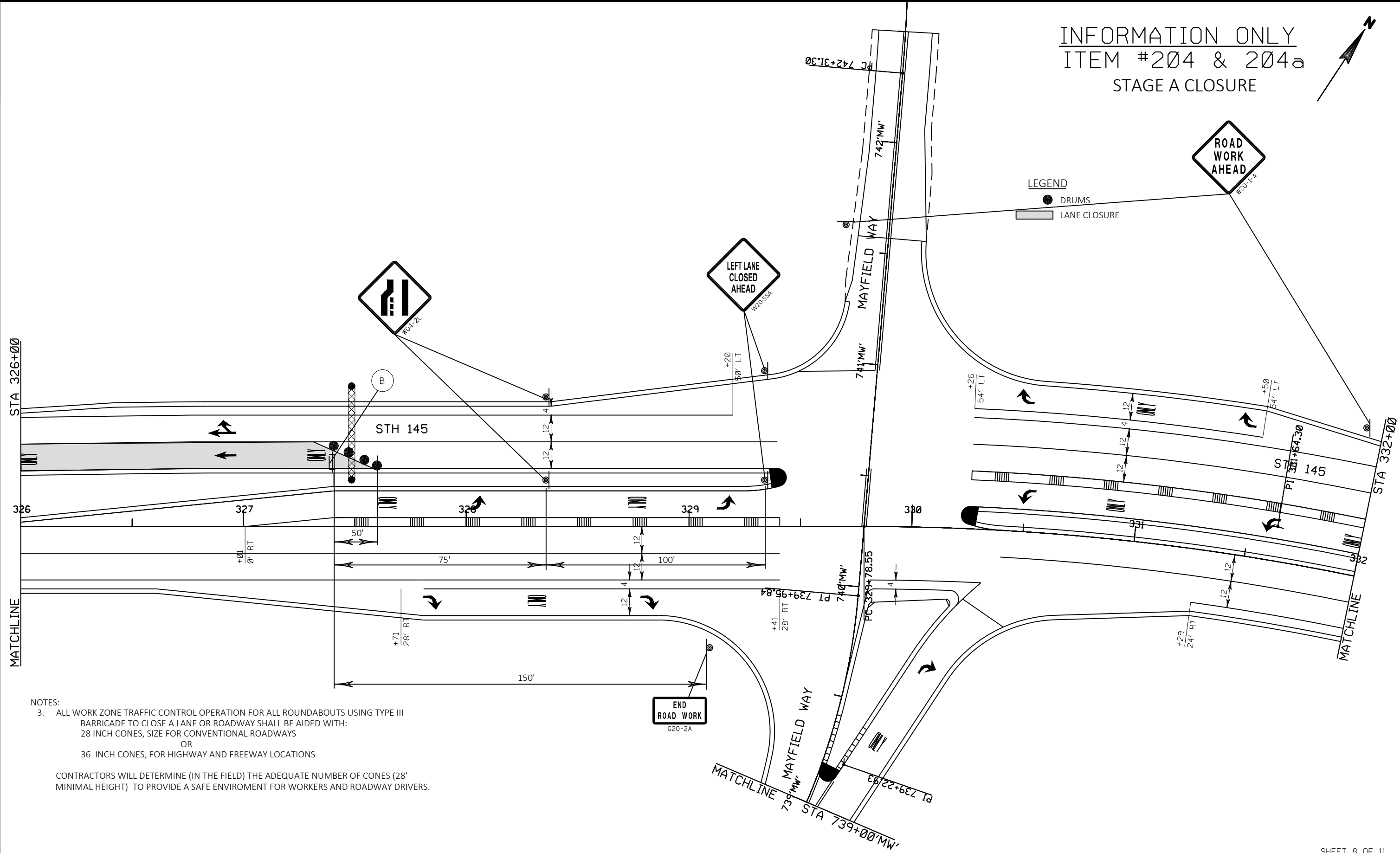
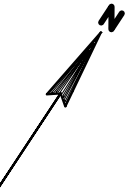
CONTRACTORS WILL DETERMINE (IN THE FIELD) THE ADEQUATE NUMBER OF CONES (28' MINIMAL HEIGHT) TO PROVIDE A SAFE ENVIRONMENT FOR WORKERS AND ROADWAY DRIVERS.



TRAFFIC CONTROL
STAGE A CLOSURE

1. NOTE: ALL RAMPS ARE OPEN TO IH 41 TRAFFIC

INFORMATION ONLY
ITEM #204 & 204a
STAGE A CLOSURE



NOTES:
 3. ALL WORK ZONE TRAFFIC CONTROL OPERATION FOR ALL ROUNDABOUTS USING TYPE III BARRICADE TO CLOSE A LANE OR ROADWAY SHALL BE AIDED WITH:
 28 INCH CONES, SIZE FOR CONVENTIONAL ROADWAYS
 OR
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 CONTRACTORS WILL DETERMINE (IN THE FIELD) THE ADEQUATE NUMBER OF CONES (28' MINIMAL HEIGHT) TO PROVIDE A SAFE ENVIROMENT FOR WORKERS AND ROADWAY DRIVERS.

END ROAD WORK
G20-2A

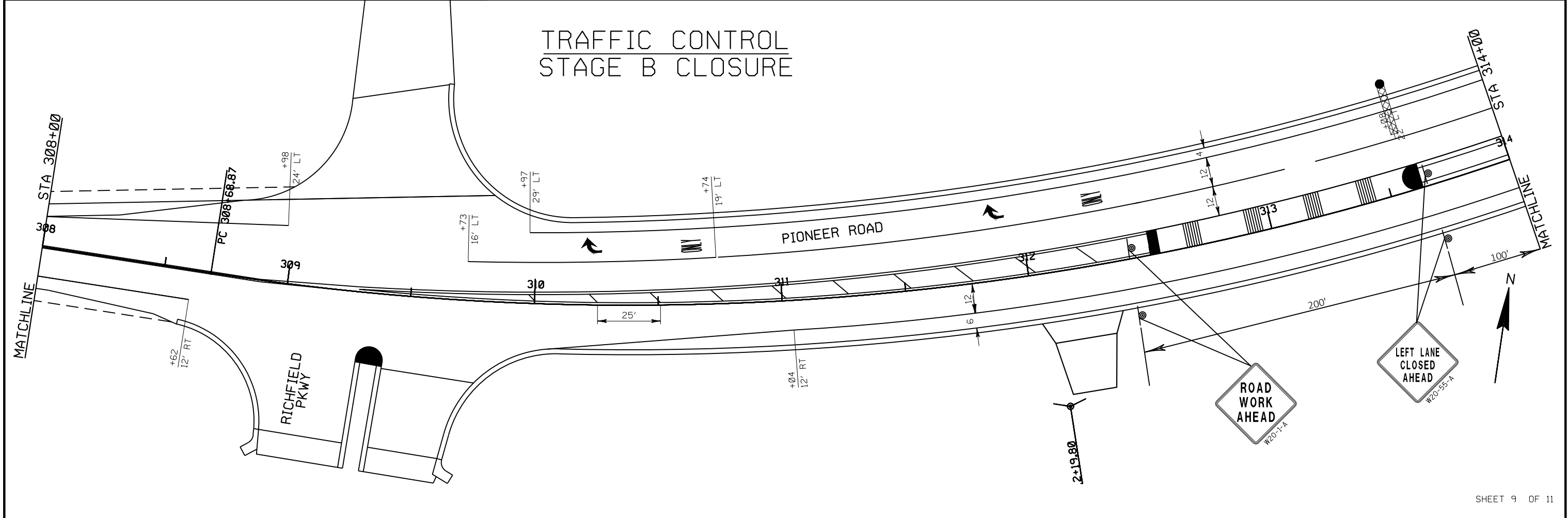
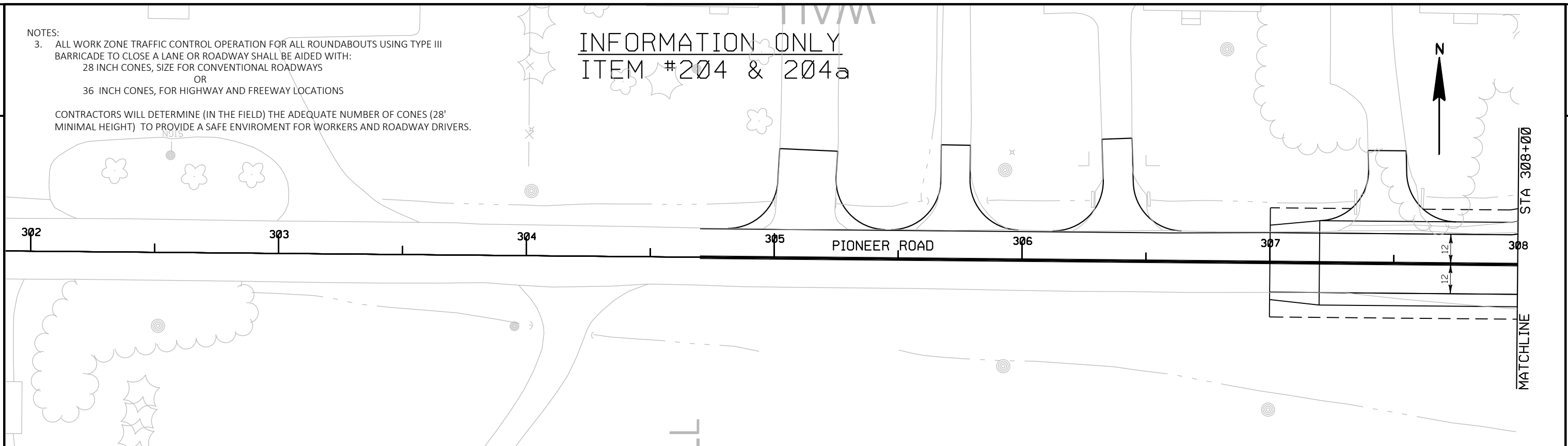
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NOTES:

- 3. ALL WORK ZONE TRAFFIC CONTROL OPERATION FOR ALL ROUNDABOUTS USING TYPE III BARRICADE TO CLOSE A LANE OR ROADWAY SHALL BE AIDED WITH:
28 INCH CONES, SIZE FOR CONVENTIONAL ROADWAYS
OR
36 INCH CONES, FOR HIGHWAY AND FREEWAY LOCATIONS
- CONTRACTORS WILL DETERMINE (IN THE FIELD) THE ADEQUATE NUMBER OF CONES (28' MINIMAL HEIGHT) TO PROVIDE A SAFE ENVIROMENT FOR WORKERS AND ROADWAY DRIVERS.

INFORMATION ONLY
ITEM #204 & 204a

2



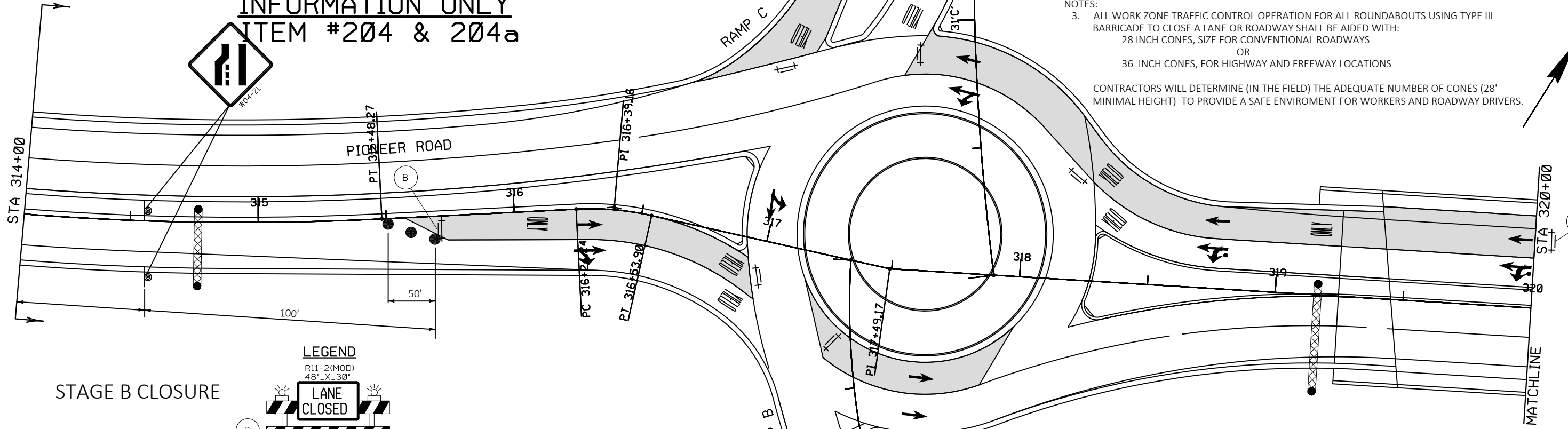
PROJECT NO: 1000-77-22	HWY: STH 145	COUNTY: WASHINGTON	TEMPORARY TRAFFIC CONTROL - STH 145	SHEET	E
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INFORMATION ONLY ITEM #204 & 204a

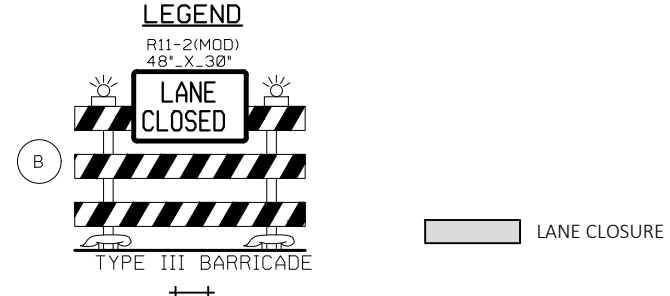


MATCHLINE IH 41 (SB) OFF RAMP STA 31+10'C'

NOTES:
 3. ALL WORK ZONE TRAFFIC CONTROL OPERATION FOR ALL ROUNDABOUTS USING TYPE III BARRICADE TO CLOSE A LANE OR ROADWAY SHALL BE AIDED WITH:
 28 INCH CONES, SIZE FOR CONVENTIONAL ROADWAYS
 OR
 36 INCH CONES, FOR HIGHWAY AND FREEWAY LOCATIONS
 CONTRACTORS WILL DETERMINE (IN THE FIELD) THE ADEQUATE NUMBER OF CONES (28' MINIMAL HEIGHT) TO PROVIDE A SAFE ENVIROMENT FOR WORKERS AND ROADWAY DRIVERS.

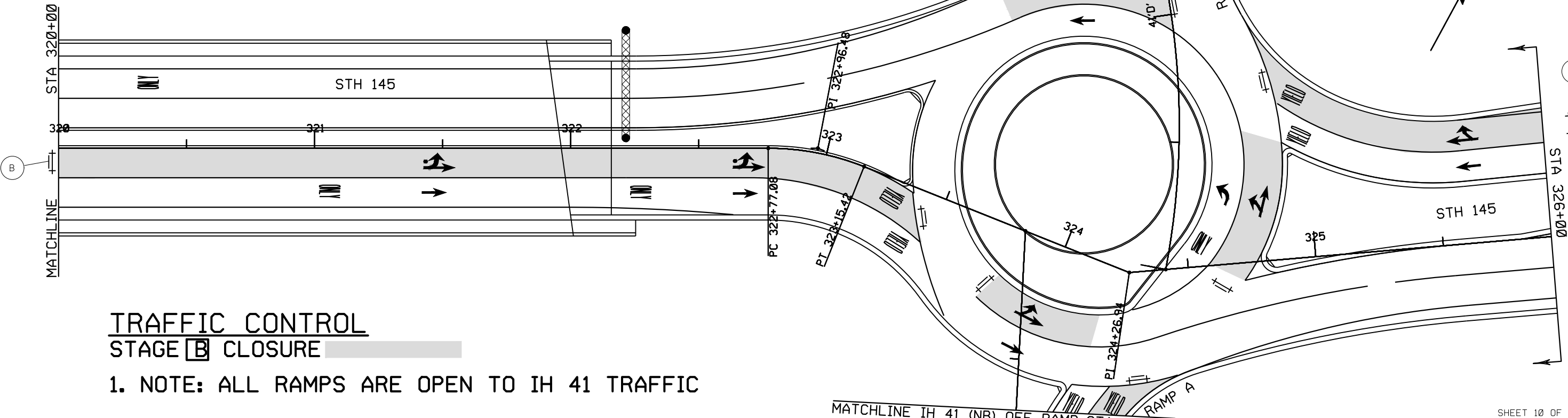


STAGE B CLOSURE



MATCHLINE STA 26+25'B' IH 41 (SB) ON RAMP

MATCHLINE STA 41+25'D' IH 41 (NB) ON RAMP



TRAFFIC CONTROL STAGE B CLOSURE

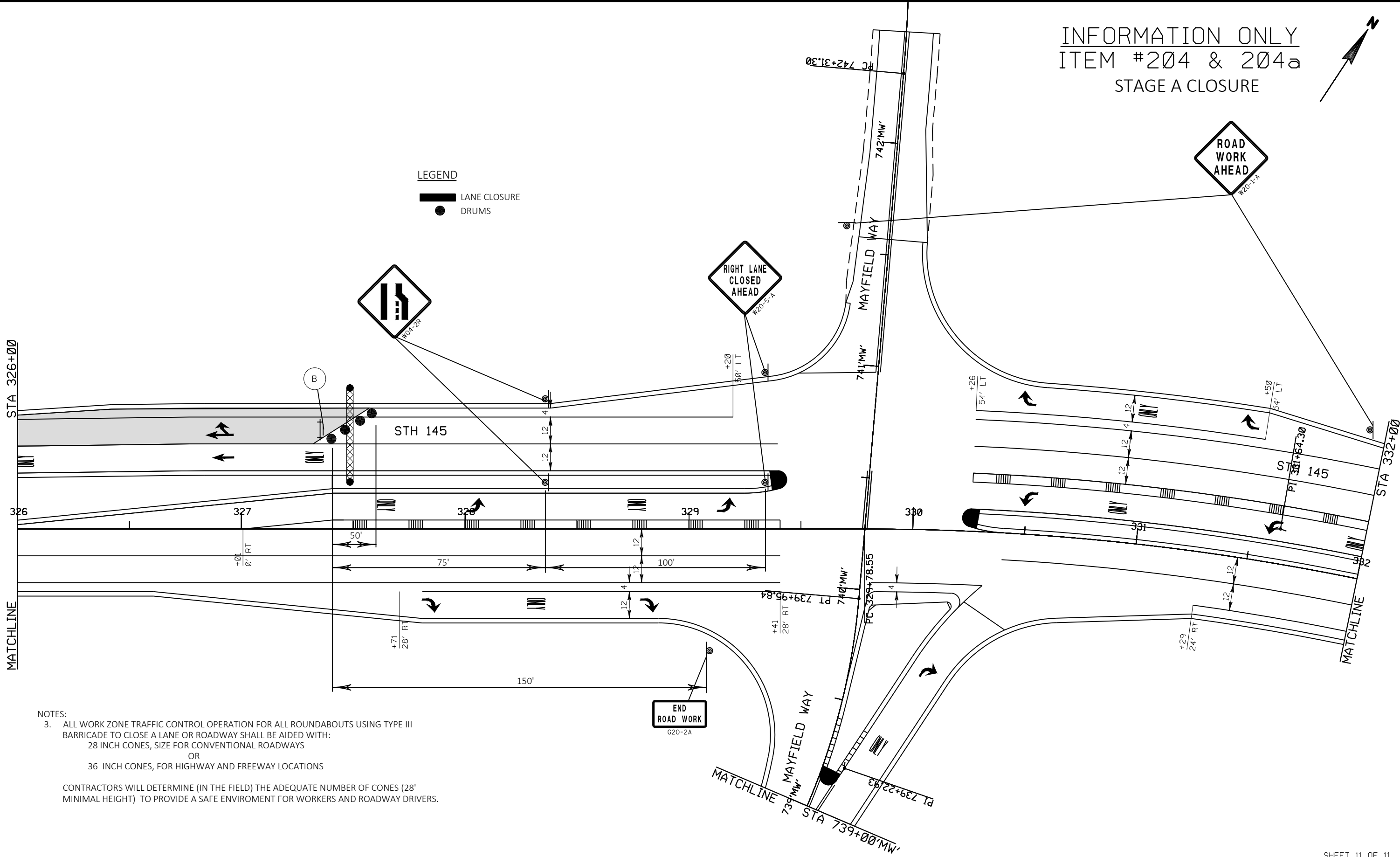
1. NOTE: ALL RAMPS ARE OPEN TO IH 41 TRAFFIC

INFORMATION ONLY
ITEM #204 & 204a
STAGE A CLOSURE



LEGEND

-  LANE CLOSURE
-  DRUMS



NOTES:

3. ALL WORK ZONE TRAFFIC CONTROL OPERATION FOR ALL ROUNDABOUTS USING TYPE III BARRICADE TO CLOSE A LANE OR ROADWAY SHALL BE AIDED WITH:
28 INCH CONES, SIZE FOR CONVENTIONAL ROADWAYS
OR
36 INCH CONES, FOR HIGHWAY AND FREEWAY LOCATIONS

CONTRACTORS WILL DETERMINE (IN THE FIELD) THE ADEQUATE NUMBER OF CONES (28' MINIMAL HEIGHT) TO PROVIDE A SAFE ENVIROMENT FOR WORKERS AND ROADWAY DRIVERS.

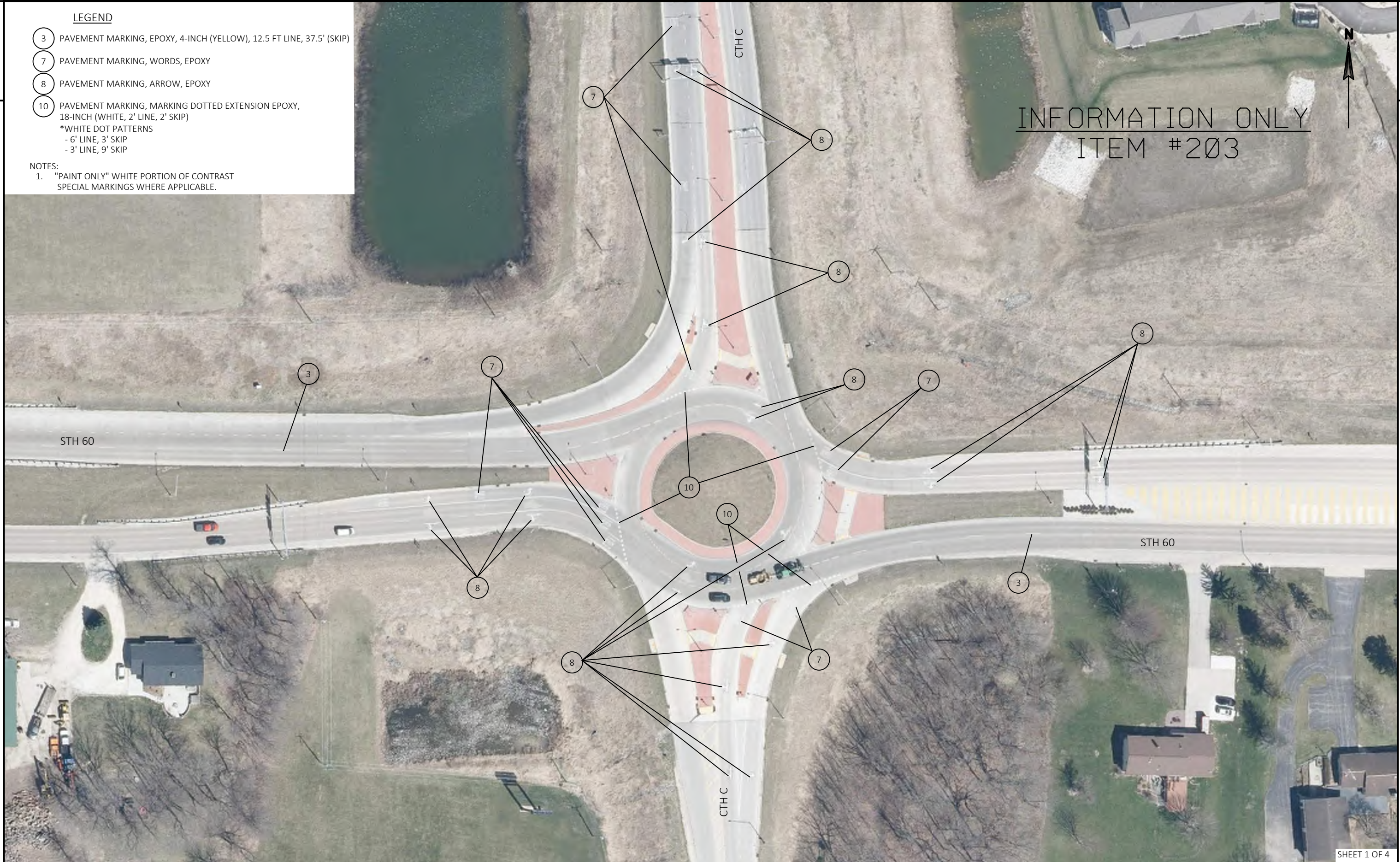
INFORMATION ONLY
ITEM #203



LEGEND

- 3 PAVEMENT MARKING, EPOXY, 4-INCH (YELLOW), 12.5 FT LINE, 37.5' (SKIP)
- 7 PAVEMENT MARKING, WORDS, EPOXY
- 8 PAVEMENT MARKING, ARROW, EPOXY
- 10 PAVEMENT MARKING, MARKING DOTTED EXTENSION EPOXY, 18-INCH (WHITE, 2' LINE, 2' SKIP)
- *WHITE DOT PATTERNS
 - 6' LINE, 3' SKIP
 - 3' LINE, 9' SKIP

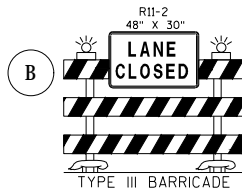
NOTES:
1. "PAINT ONLY" WHITE PORTION OF CONTRAST SPECIAL MARKINGS WHERE APPLICABLE.



LEGEND

- 3 PAVEMENT MARKING, EPOXY, 4-INCH (YELLOW), 12.5 FT LINE, 37.5' (SKIP)
- 7 PAVEMENT MARKING, WORDS, EPOXY
- 8 PAVEMENT MARKING, ARROW, EPOXY
- 10 PAVEMENT MARKING, YIELD LINE, 18-INCH (WHITE, 2' LINE, 2' SKIP)

*WHITE DOT PATTERNS
 - 6' LINE, 3' SKIP
 - 3' LINE, 9' SKIP



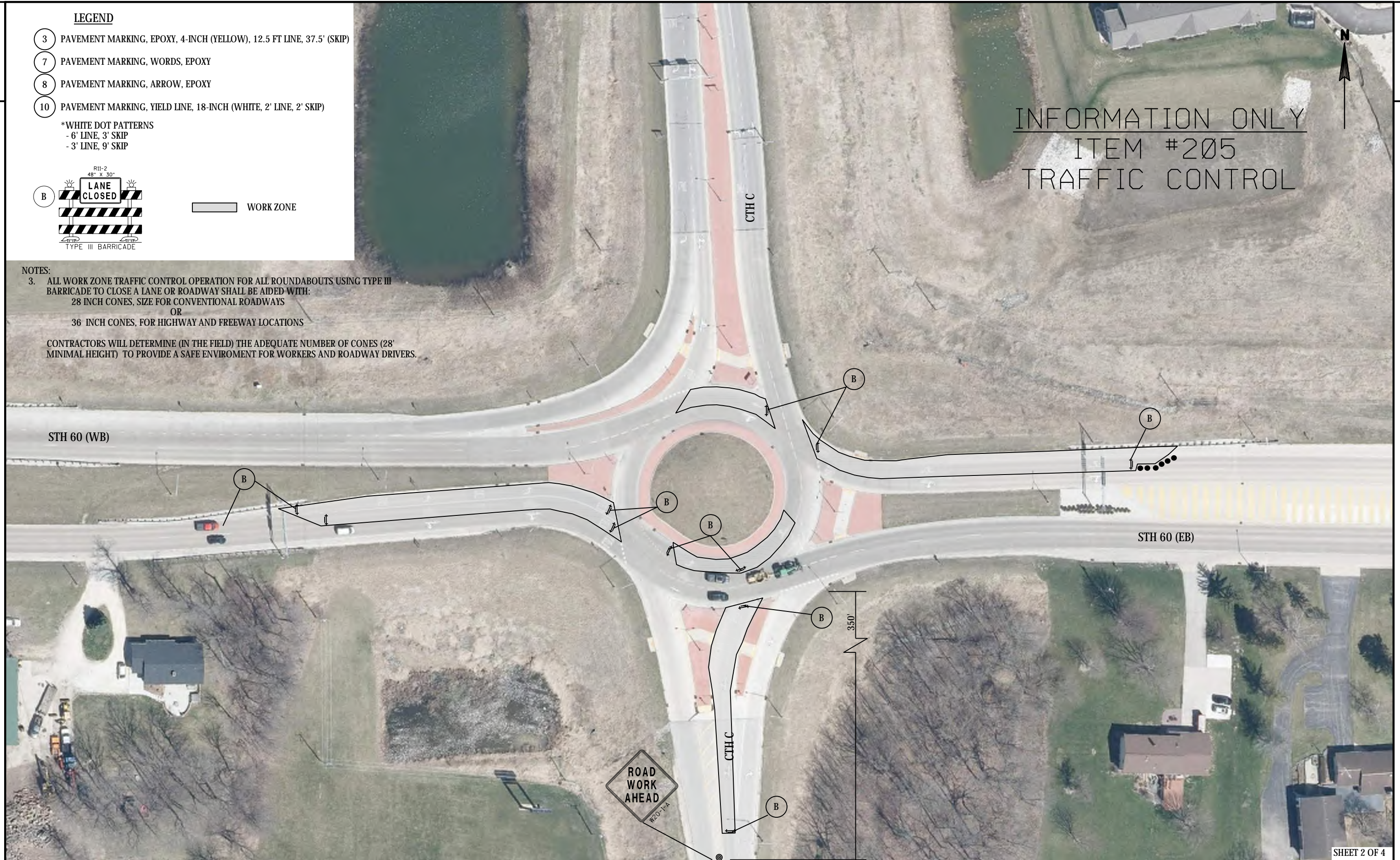
WORK ZONE

NOTES:

- 3. ALL WORK ZONE TRAFFIC CONTROL OPERATION FOR ALL ROUNDABOUTS USING TYPE III BARRICADE TO CLOSE A LANE OR ROADWAY SHALL BE AIDED WITH:
 28 INCH CONES, SIZE FOR CONVENTIONAL ROADWAYS
 OR
 36 INCH CONES, FOR HIGHWAY AND FREEWAY LOCATIONS

CONTRACTORS WILL DETERMINE (IN THE FIELD) THE ADEQUATE NUMBER OF CONES (28' MINIMAL HEIGHT) TO PROVIDE A SAFE ENVIROMENT FOR WORKERS AND ROADWAY DRIVERS.

INFORMATION ONLY
 ITEM #205
 TRAFFIC CONTROL



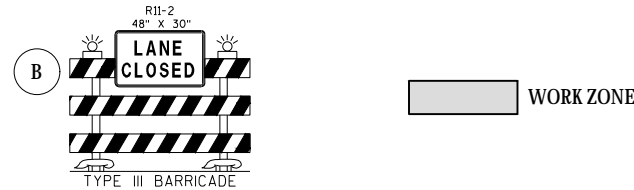
INFORMATION ONLY
ITEM #205
TRAFFIC CONTROL



LEGEND

- 3 PAVEMENT MARKING, EPOXY, 4-INCH (YELLOW), 12.5 FT LINE, 37.5' (SKIP)
- 7 PAVEMENT MARKING, WORDS, EPOXY
- 8 PAVEMENT MARKING, ARROW, EPOXY
- 10 PAVEMENT MARKING, YIELD LINE, 18-INCH (WHITE), 2' LINE, 2' SKIP

*WHITE DOT PATTERNS
 - 6' LINE, 3' SKIP
 - 3' LINE, 9' SKIP



NOTES:

- 3. ALL WORK ZONE TRAFFIC CONTROL OPERATION FOR ALL ROUNDABOUTS USING TYPE III BARRICADE TO CLOSE A LANE OR ROADWAY SHALL BE AIDED WITH:
 28 INCH CONES, SIZE FOR CONVENTIONAL ROADWAYS
 OR
 36 INCH CONES, FOR HIGHWAY AND FREEWAY LOCATIONS

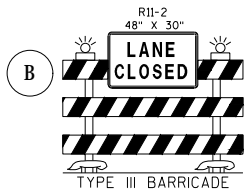
CONTRACTORS WILL DETERMINE (IN THE FIELD) THE ADEQUATE NUMBER OF CONES (28' MINIMAL HEIGHT) TO PROVIDE A SAFE ENVIROMENT FOR WORKERS AND ROADWAY DRIVERS.



LEGEND

WORK ZONE A

WORK ZONE B



NOTES:

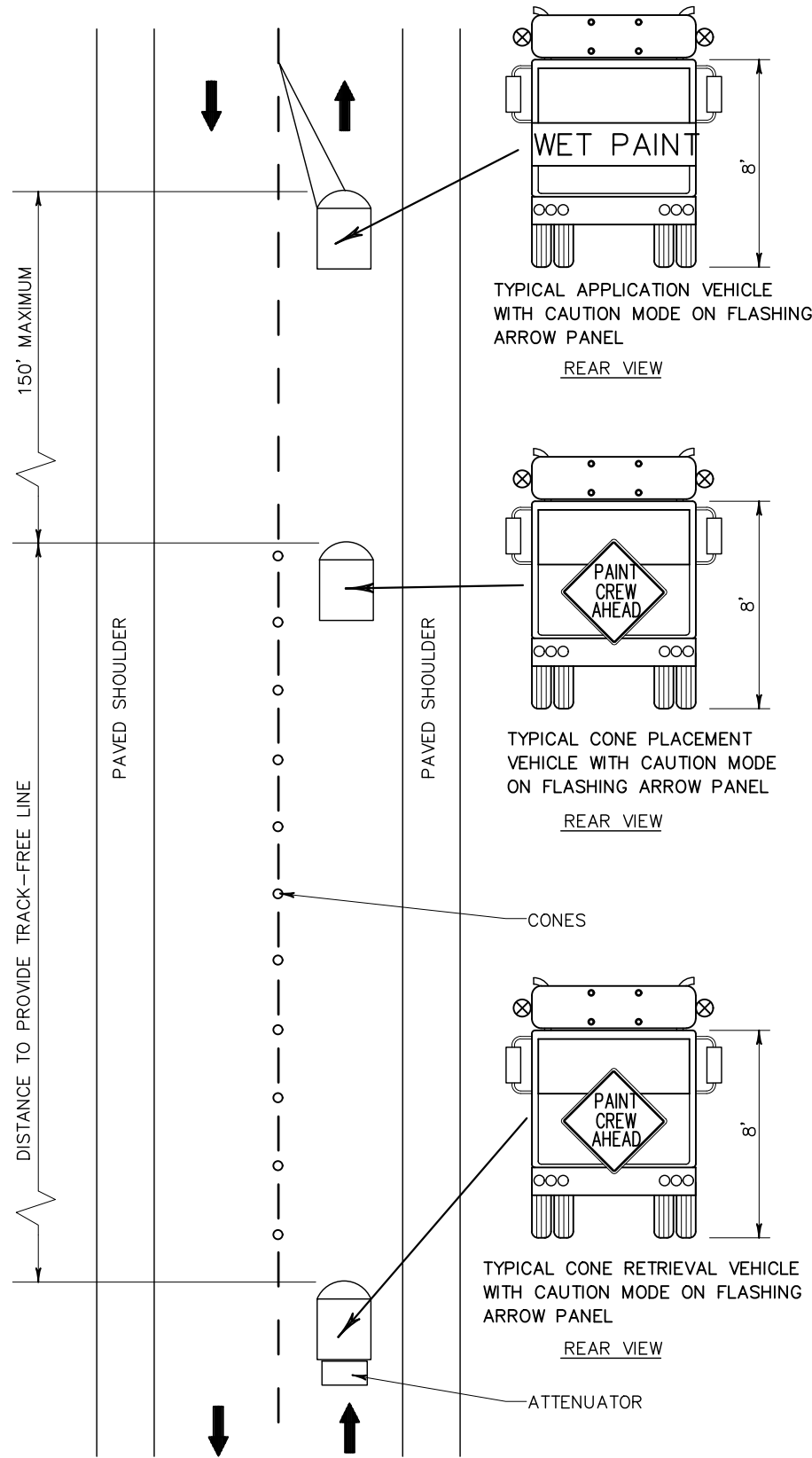
- 3. ALL WORK ZONE TRAFFIC CONTROL OPERATION FOR ALL ROUNDABOUTS USING TYPE III BARRICADE TO CLOSE A LANE OR ROADWAY SHALL BE AIDED WITH:
28 INCH CONES, SIZE FOR CONVENTIONAL ROADWAYS
OR
36 INCH CONES, FOR HIGHWAY AND FREEWAY LOCATIONS

CONTRACTORS WILL DETERMINE (IN THE FIELD) THE ADEQUATE NUMBER OF CONES (28' MINIMAL HEIGHT) TO PROVIDE A SAFE ENVIROMENT FOR WORKERS AND ROADWAY DRIVERS.

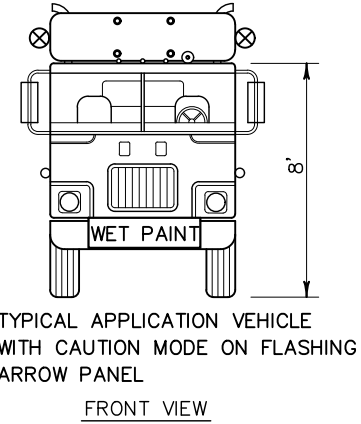


INFORMATION ONLY
ITEM #205
TRAFFIC CONTROL

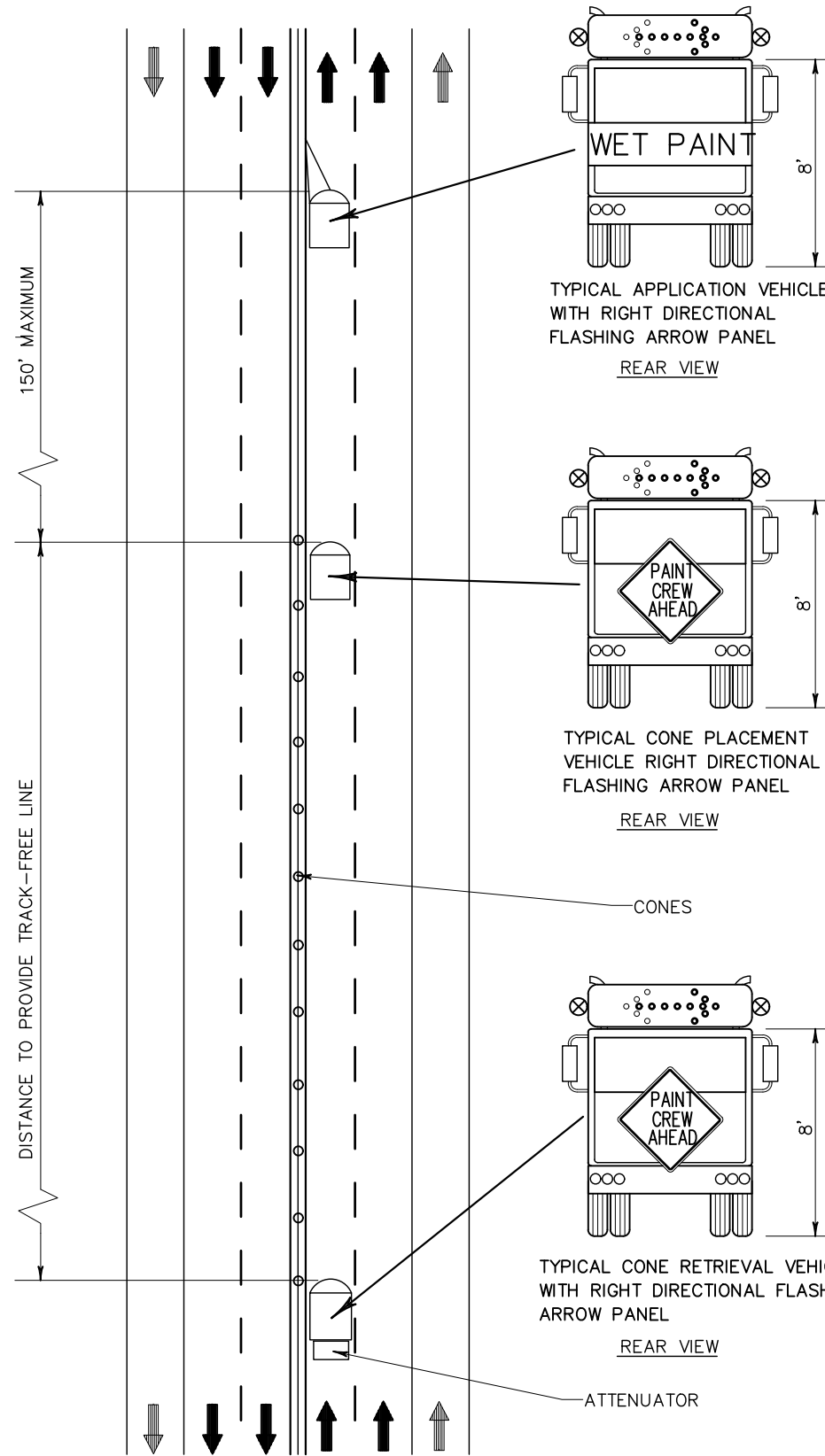
PROJECT NO: 1000-77-22	HWY: STH 145	COUNTY: WASHINGTON	TEMPORARY TRAFFIC CONTROL-STH 60	SHEET	E
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1. ALL VEHICLES SHALL BE EQUIPPED WITH ROTATING YELLOW BEACONS OR STROBE LIGHTS MOUNTED SUCH THAT AT LEAST ONE CAN BE SEEN FROM ANY APPROACH ANGLE.
2. THE APPLICATION VEHICLE SHALL BE EQUIPPED WITH FRONT AND REAR FACING TYPE A OR B FLASHING ARROW PANELS OPERATING IN CAUTION MODE. ALL SUBSEQUENT VEHICLES SHALL BE EQUIPPED WITH A REAR FACING TYPE A OR B FLASHING ARROW PANEL.
3. THE APPLICATION VEHICLE SHALL BE EQUIPPED WITH "WET PAINT" SIGNS FRONT AND REAR.
4. THE CONE PLACEMENT VEHICLE AND CONE RETRIEVAL VEHICLE SHALL BE EQUIPPED WITH A "PAINT CREW AHEAD" SIGN AND A REAR FACING FLASHING ARROW PANEL OPERATING IN CAUTION MODE.



2-LANE 2-WAY ROADWAY CENTERLINE



1. ALL VEHICLES SHALL BE EQUIPPED WITH ROTATING YELLOW BEACONS OR STROBE LIGHTS MOUNTED SUCH THAT AT LEAST ONE CAN BE SEEN FROM ANY APPROACH ANGLE.
2. ALL VEHICLES SHALL BE EQUIPPED WITH A TYPE A OR B FLASHING ARROW PANEL.
3. THE APPLICATION VEHICLE SHALL BE EQUIPPED WITH "WET PAINT" SIGNS FRONT AND REAR AND A RIGHT DIRECTIONAL FLASHING ARROW PANEL FACING THE REAR.
4. THE CONE PLACEMENT VEHICLE AND CONE RETRIEVAL VEHICLE SHALL BE EQUIPPED WITH A "PAINT CREW AHEAD" SIGN AND A REAR FACING RIGHT DIRECTIONAL FLASHING ARROW PANEL.

4 OR 6 LANE 2-WAY ROADWAY CENTERLINE

Estimate Of Quantities

1000-77-22

Line	Item	Item Description	Unit	Total	Qty
0002	619.1000	Mobilization	EACH	1.000	1.000
0004	646.1020	Marking Line Epoxy 4-Inch	LF	1,285,626.000	1,285,626.000
0006	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	10.000	10.000
0008	646.1545	Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	LF	10.000	10.000
0010	646.3020	Marking Line Epoxy 8-Inch	LF	108,253.000	108,253.000
0012	646.3040	Marking Line Grooved Wet Ref Epoxy 8-Inch	LF	225.000	225.000
0014	646.3545	Marking Line Grooved Wet Ref Contrast Epoxy 8-Inch	LF	100.000	100.000
0016	646.5020	Marking Arrow Epoxy	EACH	399.000	399.000
0018	646.5120	Marking Word Epoxy	EACH	250.000	250.000
0020	646.5220	Marking Symbol Epoxy	EACH	36.000	36.000
0022	646.5420	Marking Aerial Enforcement Bar Epoxy	EACH	160.000	160.000
0024	646.6120	Marking Stop Line Epoxy 18-Inch	LF	7,788.000	7,788.000
0026	646.6220	Marking Yield Line Epoxy 18-Inch	EACH	72.000	72.000
0028	646.6320	Marking Dotted Extension Epoxy 18-Inch	LF	2,225.000	2,225.000
0030	646.7120	Marking Diagonal Epoxy 12-Inch	LF	20.000	20.000
0032	646.7220	Marking Chevron Epoxy 24-Inch	LF	230.000	230.000
0034	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	12,774.000	12,774.000
0036	646.7520	Marking Crosswalk Epoxy Block Style 24-Inch	LF	5.000	5.000
0038	646.8120	Marking Curb Epoxy	LF	1.000	1.000
0040	646.8220	Marking Island Nose Epoxy	EACH	1.000	1.000
0042	646.9000	Marking Removal Line 4-Inch	LF	135.000	135.000
0044	646.9100	Marking Removal Line 8-Inch	LF	100.000	100.000
0046	646.9200	Marking Removal Line Wide	LF	100.000	100.000
0048	646.9300	Marking Removal Special Marking	EACH	5.000	5.000
0050	SPV.0060	Special 01. Traffic Control	EACH	1.000	1.000
0052	SPV.0090	Special 01. Pavement Marking Epoxy Contrast 4-inch	LF	10.000	10.000
0054	SPV.0090	Special 02. Pavement Marking Epoxy Contrast 8-inch	LF	10.000	10.000
0056	SPV.0090	Special 03. Marking Removal Line Grooved Tape 8"	LF	10.000	10.000
0058	SPV.0090	Special 04. Marking Removal Line Thermoplastic 18"	LF	10.000	10.000
0060	SPV.0090	Special 05. Marking Removal Line Contrast Tape 8"	LF	10.000	10.000
0062	SPV.0090	Special 06. Marking Removal Line Grooved Tape 4"	LF	10.000	10.000

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Epoxy Pavement Marking - 2022 Var. Hwy (1000-77-22) SE Region Wide			646.1020 MARKING LINE EPOXY MAIN LINE Lane line, Edge line, Mini Skips 4-IN L.F.	SPV.0090.01 Pav. Marking Epoxy Contrast (white) 4-IN L.F.	646.1040 Marking Line Grooved Wet Contrast (white) 4-IN L.F.	646.1545 Marking Line Grooved Wet Ref Contrast Epoxy 4-IN L.F.	646.9000 Marking Removal line 4-IN L.F.	SPV.0090.05 Marking Remv line Grooved Tape 4-IN L.F.	646.7420 Marking Cross Walk Epoxy Transverse Line 6-IN L.F.	646.3020 MARKING LINE EPDXY Gore, Channelizing 8-IN L.F.	SPV.0090.02 Pav. Marking Epoxy Contrast (white) 8-IN L.F.	646.3040 Marking Line Grooved Wet Contrast (white) 8-IN L.F.	646.3545 Marking Line Grooved Wet Ref Contrast Epoxy 8-IN L.F.	646.9100 Marking Removal line 8-IN L.F.	646.7120 Marking Diagonal Epoxy 12-IN L.F.	646.9200 Marking Removal line Wide -- L.F.	646.7220 Marking CHEVRONS Epoxy 24-IN L.F.	646.6220 Marking Yield line Epoxy 18-IN L.F.	646.6120 Marking Stop Line Epoxy 18-IN L.F.
FINAL SUMMARY:			MILE (S)																
MULTI-LANE	{ITEM 101 - 105}	18.11	380450	0	0	0	0	0	10790	53492	0	0	0	0	0	0	0	24	5748
ROUNDABOUTS	{ITEMS 200 - 205}	1.2	26732	0	0	0	0	0	1820	0	0	0	0	0	0	0	0	0	0
HIGHWAYS (Interstates)	{ITEMS 300 - 306}	38.13	769444	0	0	0	0	1784	49541	0	0	0	0	0	0	0	0	0	1540
UNDISTRIBUTED QUANTITIES (VARIOUS LOCATIONS TO BE DETERMINED)	{ITEM 400 - 429}	3	109000	10	10	10	135	10	200	3400	10	225	100	100	20	100	230	48	500
LAW ENFORCEMENT (SPEED BAR) VARIOUS LOCATIONS TO BE DETERMINED	{ITEM 430 - 437}	0.8																	
Totals		61.24	1285626	10	10	10	135	10	12774	108253	10	225	100	100	20	100	230	72	7788

Epoxy Pavement Marking - 2022 Var. Hwy (1000-77-22) SE Region Wide			646.6320 Marking Dotted Extnsn Epoxy 18-IN EA.	646.5420 Marking Aerial Enforcement Bar Epoxy L.F.	646.7520 Marking Crosswalk Epoxy Ladder Pattern 24-IN L.F.	646.5020 Marking Arrow Epoxy EA.	646.5220 Marking Symbols Epoxy EA.	646.5120 Marking Word Epoxy EA.	646.9300 Marking Removal Special Marking EA.	646.8120 Marking Curb Epoxy L.F.	646.8220 Marking Island Nose Epoxy EA.	SPV.0090.03 Marking Remv line Grooved Tape 8-IN L.F.	SPV.0090.04 Marking Remv line Thermoplastic 18-IN L.F.	SPV.0090.05 Marking Remv line Contrast tape 8-IN L.F.
FINAL SUMMARY:			MILE (S)											
MULTI-LANE	{ITEM 101 - 105}	18.11	0	0	0	89	0	81	0	0	0	0	0	0
ROUNDABOUTS	{ITEMS 200 - 205}	1.2	725	0	0	83	0	55	0	0	0	0	0	0
HIGHWAYS (Interstates)	{ITEMS 300 - 306}	38.13	0	0	0	143	16	62	0	0	0	0	0	0
UNDISTRIBUTED QUANTITIES (VARIOUS LOCATIONS TO BE DETERMINED)	{ITEM 400 - 429}	3	1500	20	5	84	20	52	5	1	1	10	10	10
LAW ENFORCEMENT (SPEED BAR) VARIOUS LOCATIONS TO BE DETERMINED	{ITEM 430 - 437}	0.8		140										
Totals		61.24	2225	160	5	399	36	250	5	1	1	10	10	10

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Epoxy Pavement Marking - 2022 Var. Hwy (1000-77-22) SE Region Wide					646.1020 MARKING LINE EPOXY MAIN LINE Lane Line, Edge Line, Mini Skips 4-IN L.F.	SPV.0090.01 Pav. Marking Epoxy Contrast (white) 4-IN L.F.	646.1040 Marking Line Grooved/Wet Contrast (white) 4-IN L.F.	646.1545 Marking Line Grooved/Wet Ref Contrast Epoxy 4-IN L.F.	646.9000 Marking Removal 4-IN L.F.	646.7420 Marking Cross Walk Epoxy Transverse Line 6-IN L.F.	646.3020 MARKING LINE EPOXY Gore, Channelizing 8-IN L.F.	SPV.0090.02 Pav. Marking Epoxy Contrast (white) 8-IN L.F.	646.3040 Marking Line Grooved/Wet Contrast (white) 8-IN L.F.	646.3545 Marking Line Grooved/Wet Ref Contrast Epoxy 8-IN L.F.	646.9100 Marking Removal 8-IN L.F.	646.7120 Marking Diagonal Epoxy 12-IN L.F.	646.9200 Marking Removal line Wide -- L.F.	646.7220 Marking CHEVRONS Epoxy 24-IN L.F.	646.6220 Marking Yield Line Epoxy 18-IN L.F.	646.6120 Marking Stop Line Epoxy 18-IN L.F.	646.6320 Marking Dotted Extension Epoxy 18-IN EA	646.5420 Marking Aerial Enforcement Bar Epoxy L.F.	646.7520 Marking Crosswalk Epoxy Ladder Pattern 24-IN L.F.	646.5020 Marking Arrow Epoxy EA	646.5220 Marking Symbols Epoxy EA	646.5120 Marking Word Epoxy EA	646.9300 Marking Removal Special Marking EA	646.8120 Marking Curb Epoxy L.F.	646.8220 Marking Island Nose Epoxy EA	646.5320 Marking Railroad Crossings Epoxy EA		
Item#	County	HWY	Miles	LOCATION	SUMMARY:																											
101	WASHINGTON	SRH 60	5.5	CHIC to High Rd intersection		137940	0	0	0	0	9255	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
102	MILWAUKEE	SRH 241	1	IR 894 TO HOWARD AVE		5280	0	0	0	3660	2199	0	0	0	0	0	0	0	0	603	0	0	0	8	0	1	0	0	0	0	0	
103	MILWAUKEE	SRH 241	2.16	IR 894 TO COLLEGE AVE		5702	0	0	0	4158	5997	0	0	0	0	0	0	24	1092	0	0	0	24	0	23	0	0	0	0	0		
104	WAUKESHA	SRH 190	4.25	124TH ST TO BROOKFIELD RD		94748	0	0	0	4972	20050	0	0	0	0	0	0	0	1272	0	0	0	57	0	57	0	0	0	0	0		
105	WAUKESHA	USH 18	5.2	Baker Rd to 124th St		137280	0	0	0	0	15991	0	0	0	0	0	0	0	2784	0	0	0	0	0	0	0	0	0	0	0		
					MILES(S) Total	380450	0	0	0	0	18790	53492	0	0	0	0	0	0	24	5748	0	0	0	89	0	81	0	0	0	0		

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Epoxy Pavement Marking - 2022 Var. Hwy (1000-77-22) SE Region Wide				INFORMATION ONLY		646.1020 MARKING LINE EPOXY MAIN LINE Lane line, Edge line, Mini Skips 4-IN L.F.	646.3020 MARKING LINE EPOXY Gore, Channelizing 8-IN L.F.	646.6320 Marking Dotted Extnsn Epoxy 18-IN EA.	646.5020 Marking Arrow Epoxy EA.	646.5220 Marking Symbols Epoxy EA.	646.5120 Marking Word Epoxy EA.
ROUNDBABOUT SUMMARY				ROUNDBABOUT LOCATION	REMARKS / COMMENTS						
Item #	County	HWY	Miles								
201	WASHINGTON	STH 145	0.2	STH 145 @ USH 45 NB (ON & OFF) RAMP		5600	200	75	1	0	3
202	WASHINGTON	STH 145	0.2	STH 145 @ USH 45 SB (ON & OFF) RAMP		5422	510	100	9	0	9
203	WASHINGTON	STH 145	0.2	STH 145 @ Cabela WAY/HELSAN DR		3580	450	110	17	0	9
204	WASHINGTON	STH 145	0.2	STH 145 @ IH 41 NB (ON & OFF) RAMP		6072	300	120	19	0	12
204a	WASHINGTON	STH 145	0.2	STH 145 @ IH 41 SB (ON & OFF) RAMP		6058	360	120	16	0	10
205	WASHINGTON	STH 60	0.2	STH 60 @ CTH C (HILLSIDE RD)		0	0	200	21	0	12
			1.2		Totals	26732	1820	725	83	0	55

Epoxy Pavement Marking - 2022 Var. Hwy (1000-77-22) SE Region Wide				INFORMATION ONLY		646.1020 MARKING LINE EPOXY MAIN LINE Lane line, Edge line, Mini Skips 4-IN L.F.	646.7420 Marking Cross Walk Epoxy Transverse Line 6-IN L.F.	646.3020 MARKING LINE EPOXY Gore, Channelizing 8-IN L.F.	646.6120 Marking Stop Line Epoxy 18-IN L.F.	646.5020 Marking Arrow Epoxy EA.	646.5220 Marking Symbols Epoxy EA.	646.5120 Marking Word Epoxy EA.
SUMMARY				LOCATION	REMARKS / COMMENTS							
Item #	County	HWY	Miles									
300	Milw	IH 894	3.7	.10 Miles N. of Lincoln Ave to .10 Miles W. of 84th St.		129598	464	3133	364	25	4	6
301	Milwaukee	IH 94	3	Mitchell Inter.(Layton Ave Inter.) To Rawson Ave Inter.		137424	792	7260	576	57	0	36
302	MILWAUKEE	IH 43	2.4	.1 Mi. S. of W. North Ave (bridge) to STH 190 (Capital Dr. Bridge)		95879	0	14400	0	0	0	0
303	MILWAUKEE	IH 43	3.1	STH 100 (Brown Deer Rd) Inter. To W. Silver Spring Dr. Inter.		104168	0	8400	0	0	0	0
304	OZAUKEE	IH 43	17.6	STH 32 (SOUTHERN INTER.) TO SHEBOYGAN/OZ. CO.LINE		49121	480	1853	288	25	0	0
305	WAUKESHA	IH 41	3.27	2500' N OF STH 145 (BRIDGE) TO CTH Q INTER		101942	48	4895	312	36	12	20
306	MILWAUKEE	IH 41	5.06	W Burleigh St to 500' N OF W GOOD HOPE(BRIDGE) Inter.		151312	0	9600	0	0	0	0
0	0	0	0	0		0	0	0	0	0	0	0
			38.13		Totals	769444	1784	49541	1540	143	16	62

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Epoxy Pavement Marking - 2022 Var. Hwy (1000-77-22) SE Region Wide					INFORMATION ONLY	646.1020 MARKING LINE EPOXY MAIN LINE	SPV.0090.01 Pav. Mking Epoxy	646.1040 Marking Line Grooved Wet	646.1545 Marking Line Grooved Wet Ref	646.9000 Marking Removal	SPV.0090.06 Marking Remv line	646.7420 Marking Cross Walk Epoxy	646.3920 MARKING LINE EPOXY	SPV.0090.02 Pav. Mking Epoxy	646.3040 Marking Line Grooved Wet	646.3545 Marking Line Grooved Wet Ref	646.9100 Marking Removal	646.7120 Marking Diagonal	646.9200 Marking Removal	646.7220 Marking CHEVRONS	646.6220 Marking Yield line	646.6120 Marking Stop Line
UNDISTRIBUTED QUANTITIES						lane line, Edge line, Mini Skips	Contrast (white)	Contrast (white)	Contrast Epoxy	line	Grooved Tape	Transverse Line	Gore, Channelizing	Contrast (white)	Contrast (white)	Contrast Epoxy	line	Epoxy	line Wide	Epoxy	Epoxy	Epoxy
SUMMARY						4-IN	4-IN	4-IN	4-IN	4-IN	4-IN	6-IN	8-IN	8-IN	8-IN	8-IN	8-IN	12-IN		24-IN	18-IN	18-IN
Item #	County	HWY	Miles	LOCATION	REMARKS / COMMENTS	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.
(ITEM 400-429)	VARIOUS	VARIOUS	3	THROUGHOUT SE REGION (STATE WIDE)	TO BE DETERMINED	109000	10	10	10	135	10	200	3400	10	225	100	100	20	100	230	48	500
(ITEM 400-429)	VARIOUS	VARIOUS	3	THROUGHOUT SE REGION (STATE WIDE)	Totals	109000	10	10	10	135	10	200	3400	10	225	100	100	20	100	230	48	500

Epoxy Pavement Marking - 2022 Var. Hwy (1000-77-22) SE Region Wide					INFORMATION ONLY	646.6320 Marking Dotted Extnsn	646.5420 Marking Aerial	646.7520 Mking Crosswalk Epoxy Ladder	646.5020 Marking Arrow					646.5220 Marking Symbols	646.5120 Marking Word	646.9300 Marking Removal	646.8120 Marking Curb	646.8220 Marking Island Nose	SPV.0090.03 Marking Remv line	SPV.0090.04 Marking Remv line	SPV.0090.05 Marking Remv line	
UNDISTRIBUTED QUANTITIES						Epoxy	Enforcement	Pattern	Epoxy					Epoxy	Epoxy	Special	Epoxy	Epoxy	Grooved Tape	Thermoplastic	Contrast tape	
SUMMARY						18-IN	Bar Epoxy	24-IN	TYPE 1	TYPE 2	TYPE 3	TYPE 4	TYPE 5	TYPE 2R	TYPE 3R	TYPE 7R			8-IN	18-IN	8-IN	
Item #	County	HWY	Miles	LOCATION	REMARKS / COMMENTS	EA.	L.F.	L.F.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	L.F.	EA.	L.F.	L.F.	
(ITEM 400-429)	VARIOUS	VARIOUS	3	THROUGHOUT SE REGION (STATE WIDE)	TO BE DETERMINED	1500	20	5	2	41	26	5	6	1	1	2	20	52	5	1	1	10
(ITEM 400-429)	VARIOUS	VARIOUS	3	THROUGHOUT SE REGION (STATE WIDE)	Totals	1500	20	5				84				20	52	5	1	1	10	10

Epoxy Pavement Marking - 2022
 Var. Hwy (1000-77-22)
 SE Region Wide

INFORMATION ONLY

646.1020
 MARKING LINE EPOXY
 MAIN LINE
 Lane line, Edge line, Mini Skips
 4-IN
 L.F.

646.3020
 MARKING LINE
 EPOXY
 Gore, Channelizing
 8-IN
 L.F.

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SUMMARY				LOCATION	REMARKS / COMMENTS	646.1020 MARKING LINE EPOXY MAIN LINE		646.3020 MARKING LINE EPOXY	
Item #	County	HWY	Miles			Lane line, Edge line, Mini Skips 4-IN L.F.	Gore, Channelizing 8-IN L.F.		
101	WASHINGTON	STH 60	5.5	CTH C to High Rd Intersection	Begin markings west of CTH C (roundabout) Note; NO SPECIAL MARKINGS IN THIS SECTION PAINT: EDGE LINE & LANE LINES SKIPS, DOT PATTERNS MARKINGS and Center Line (TWLTL'S) MARKINGS PAINT: LONG LINE (4" & 8") MARKING ONLY	137940			
				USH 41 Interchange (Bridge crossing) Entrance to NB on ramp Entrance to SB on ramp		400			
				Lovers Ln (Signal intersection)		590			
				Enterprise Dr Median turns (DRWY)		900			
				Lous Way (T intersection)		720			
				Median (left/right arrows)		125			
				STH 175 (Signal intersection)		1550			
				Industrial Dr (t intersection)		150			
				Slinger Rd Median turns (DRWY)		275			
				Wheel Estate					
				Parkway Dr (T intersection)		75			
				Kettle Moraine Dr S (Signal intersection)		450			
				Charofais Dr (T intersection)		100			
				Kettle View Ct Median turns (DRWY)		120			
				Powder Hill Rd (T Intersection)		100			
				Kettle Moraine Rd (signal intersection) Median turns (DRWY)		3000			
				Franklin Dr		250			
				S Ten Ln		150			
				Otto Dr Median turns (DRWY)		200			
				Wayside Dr					
				High Rd				100	
101	WASHINGTON	STH 60	5.5	CTH C to High Rd Intersection	Totals	137940		9255	

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Epoxy Pavement Marking - 2022 Var. Hwy (1000-77-22) SE Region Wide				INFORMATION ONLY		646.1020 MARKING LINE EPOXY MAIN LINE Lane line, Edge line, Mini Skips 4-IN L.F.	646.7420 Marking Cross Walk Epoxy Transverse Line 6-IN L.F.	646.3020 MARKING LINE EPOXY Gore, Channelizing 8-IN L.F.	646.6120 Marking Stop Line Epoxy 18-IN L.F.	646.5020 Marking Arrow Epoxy TYPE 1 TYPE 2 TYPE 3 EA. EA. EA.			646.5120 Marking Word Epoxy EA.
Item #	County	HWY	Miles	LOCATION	REMARKS / COMMENTS								
102	MILWAUKEE	STH 241	1	IH 894 TO HOWARD AVE MAIN LINE:	PAIN: LANE LINE & 8" CHAN. (SKIPS AND DOT PATTERNS) MARKINGS WHERE APPLICABLE (NO EXISTING EDGE LINE MARKINGS)	5280		800					
				IH 894 (INTERCHANGE) BRIDGE(MAIN LINE) CROSSINGS	NB & SB (ON & OFF RAMPS) ENTRANCE/EXITS DUAL RIGHT TURN (TURKEY TRACK) DUAL LEFT TURN (TURKEY TRACK) NOTE: SIDE RD APPROACHES (NON-SIGNALIZED) PAINT , STOP BAR(S) ONLY IF THEY EXIST.		240	108	252				
				W BOTTSFORD AVE				225	12	2	1		
				W WHITAKER AVE					12				
				W COLDSRING RD / W BOLIVAR AVE			700		144				
				W PLAINFIELD AVE									
				W HOWARD AVE	PAIN: ALL 4 APPROACHES TO HOWARD AVE INTERSECTION (SPECIAL AND LONG LINE MARKINGS, WHERE APPLICABLE)		720	1000	180	6			
				SIDE ROAD APPROACH	PAIN: ONLY CROSSWALK & STOP BAR(S)						0	8	0
102	MILWAUKEE	STH 241	1	IH 894 TO HOWARD AVE	Totals	5280	1660	2199	600	8	0	1	

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Epoxy Pavement Marking - 2022 Var. Hwy (1000-77-22) SE Region Wide				INFORMATION ONLY		646.1020 MARKING LINE EPOXY MAIN LINE Lane line, Edge line, Mini Skips 4-IN L.F.	646.7420 Marking Cross Walk Epoxy Transverse Line 6-IN L.F.	646.3020 MARKING LINE EPOXY Gore, Channelizing 8-IN L.F.	646.6220 Marking Yield line Epoxy 18-IN L.F.	646.6120 Marking Stop Line Epoxy 18-IN L.F.	646.5020 Marking Arrow Epoxy TYPE 1 EA.	TYPE 2 EA.	646.5120 Marking Word Epoxy E 3 EA.
Item #	County	HWY	Miles	LOCATION	REMARKS / COMMENTS								
103	MILWAUKEE	STH 241	2.16	IH 894 TO COLLEGE AVE	PAINT: LANE LINE & 8" CHAN. (SKIPS AND DOT PATTERNS) MARKINGS WHERE APPLICABLE (NO EXISTING EDGE LINE MARKINGS)	5702		200					
				IH 894 (INTERCHANGE)	START MARKINGS (SOUTH OF BRIDGE)								
				W LAYTON AVE (SIGNAL INTERSECTION)	PAINT EXISTING: DUAL LEFT TURN (TURKEY TRACKS) (3 TOTAL) IN INTERSECTION		636	810		192		8	8
				W BARNARD AVE	NOTE: SIDE RD APPROACHES (NON-SIGNALIZED) PAINT, STOP BAR(S) ONLY IF THEY EXIST.					12			
				W CARPENTER AVE						12			
				W HOLMES AVE						12			
				W EDGERTON AVE (SIGNAL INTERSECTION)			288	360		144			
				W ABBOTT AVE			160	200		24			
				W UPHAM AVE			72	250		12		2	1
				W CLAYTON CREST AVE				150		12			
				W MALLORY AVE			56	150		12			
				W GRANGE AVE (SIGNAL INTERSECTION)			680	340		168			
				W PARNELL AVE (SIGNAL INTERSECTION)			570	140		120			
				W GOLDCREST AVE				200		12		1	1
				W RAMSEY AVE (SIGNAL INTERSECTION)			520	300		120			
				S HONEY CREEK DR			220	175		12		1	1
				W KIMBERLY AVE				175		12		1	1
				W MANGOLD AVE				175		12		1	1
				W COLLEGE AVE (SIGNAL INTERSECTION)	DUAL LEFT TURN (TURKEY TRACK) (total of 3, turkey track through intersection)		956	2075	24	204		10	10
												0	24
103	MILWAUKEE	STH 241	2.16	IH 894 TO COLLEGE AVE	Totals	5702	4158	5997	24	1092		24	23

Epoxy Pavement Marking - 2022
 Var. Hwy (1000-77-22)
 SE Region Wide

INFORMATION ONLY

646.1020 MARKING LINE EPOXY MAIN LINE Lane line, Edge line, Mini Skips 4-IN L.F.	646.7420 Marking Cross Walk Epoxy Transverse Line 6-IN L.F.	646.3020 MARKING LINE EPOXY Gore, Channelizing 8-IN L.F.	646.6120 Marking Stop Line Epoxy 18-IN L.F.	646.5020 Marking Arrow Epoxy TYPE 1 EA.	646.5120 Marking Word Epoxy TYPE 2 EA.
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SUMMARY				LOCATION	REMARKS / COMMENTS									
Item #	County	HWY	Miles			646.1020	646.7420	646.3020	646.6120	646.5020	646.5120			
104	WAUKESHA	STH 190	4.25	124TH ST TO BROOKFIELD RD MAIN LINE	NOTE: SIDE RD APPROACHES (NON-SIGNALIZED) PAINT, STOP BAR(S) ONLY IF THEY EXIST.	94248		2500						
				N 124TH ST (SIGNAL INTERSECTION)	PAINT: EDGE LINE, SKIPS, DOT PATTERNS 8" CHANNELIZING MRKNGS WHERE APPLICABLE DO NOT PAINT LANE LINE		920	3557	252	7	7			
				N 128TH ST (SIGNAL INTERSECTION)	PAINT: DUAL LEFT TURN (TURKEY TRACK) (total of 3 set, turkey track through intersection)		300	1200	112	4	4			
				N 133RD ST N 135TH ST N 138TH ST LILLY RD (SIGNAL INTERSECTION)				200 200 400						
							700	2000	180	4	4			
				N 144TH ST N 145TH ST CLARE BRIDGE LN PILGRIM RD (BRIDGE) EB & WB (ON / OFF) ENTRANCE & EXIT RAMP				120 100 400						
								620	24					
				BROOK LN N 162ND ST BRADEE RD N 165TH ST / FOUNTAIN PLAZE DR N 169TH ST N CALHOUN RD (SIGNAL INTERSECTION)				440 600 100	12					
					PAINT: DUAL LEFT TURN (TURKEY TRACK) (total of 4 set, turkey track through intersection)		1040	3100	224	14	14			
								150						
				BEAUFORT DR (SIGNAL INTERSECTION) STONEWOOD CT IMPERIAL DR (SIGNAL INTERSECTION) MOUNTAIN DR. COUNTY LANE RD N BROOKFIELD RD (SIGNAL INTERSECTION)			320	910	48	8	8			
							760	784	168	8	8			
								370	24					
					NOTE: START (& END) PAINTING 800' E. OF BROOKFIELD RD PAINT: DUAL LEFT TURN (TURKEY TRACK) (total of 1 set, turkey track through intersection)		932	950	192	10	10			
										0	57			
104	WAUKESHA	STH 190	4.25	124TH ST TO BROOKFIELD RD	Totals	94248	4972	20050	1272	57	57			

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Epoxy Pavement Marking - 2022
Var. Hwy (1000-77-22)
SE Region Wide

INFORMATION ONLY

646.1020 MARKING LINE EPOXY MAIN LINE Lane line, Edge line, Mini Skips 4-1/2" L.F.	646.8020 MARKING LINE EPOXY Gore, Channelizing 8-1/2" L.F.	646.6120 Marking Stop Line Epoxy 18-1/4" L.F.
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SUMMARY				LOCATION		REMARKS / COMMENTS			
Item #	County	Hwy	Miles	Barker Rd to 124th St MAIN LINE			646.1020	646.8020	
105	WAUKESHA	USH 18	5.2				84480		
				NOTE: FROM CTH Y TO MOORLAND		8" CHANN. TAPE -DO NOT PAINT 8" CHANN. EPOXY - PAINT PAINT: E.L. & L.L. EPOXY MRKNGS		2000	
				MOORLAND TO 124TH ST		PAINT ALL 8" CHANN. (EPOXY OR TAPE) WHITE PORTION OF ANY MARKINGS PAINT: (WHITE PORTION) OF E.L. & L.L. EPOXY MRKNGS			
				Note: NO SPECIAL MARKINGS TO BE PAINTED EXCEPT FOR STOP BAR (LINE) AT SIGNALIZES INTERSECTION(S)					
				From Moorland Rd to N Eastmoor Ave (USH18- Main line)		EB (RT turn lane) and WB (RT turn lane) -Paint Existing: 8" Chan. (skips and or Dot Patterns) Markings (est.4000')		4000	
				ALL SIGNALIZED INTERSECTION		DO SPECIAL MARKINGS ON MAIN LINE & TURKEY TRACKS IF APPLICABLE			
				CTH Y (N BARKER RD)(SIGNALIZED INTERSECTION)		PAINT: DUAL LEFT TURN (TURKEY TRACK) (total of 4 set, turkey track through intersection)		298	
				MARCUS DR			160		
				JENNIFER DR (SIGNALIZED INTERSECTION)				60	
				ELIZABETH CT				132	
				N JANACEK RD				144	
				REGENCY CT					
				N BROOKFIELD RD				168	
				FISERV DR				132	
				N CORPORATE DR / WOELFEL RD (SIGNALIZED INTERSECTION)		PAINT: DUAL LEFT TURN (TURKEY TRACK) (total of 1 set, turkey track through intersection)		336	
				MAJOR SIGNALIZED INTERSECTION / TO DRIVEWAY(S)		PAINT: DUAL LEFT TURN (TURKEY TRACK) (total of 2 set, turkey track through intersection)		200	
				N CALHOUN DR (SIGNALIZED INTERSECTION)		PAINT: DUAL LEFT TURN (TURKEY TRACK) (total of 2 set, turkey track through intersection) PAINT: TRIPLE LEFT TURN (TURKEY TRACK) (total of 4 set, turkey track through intersection)		168	
				REINDERS DR				108	
				THOMAS LN (SIGNALIZED INTERSECTION)				216	
				RUF RD					
				N EXECUTIVE DR (SIGNALIZED INTERSECTION)		PAINT: DUAL LEFT TURN (TURKEY TRACK) (total of 2 set, turkey track through intersection)		228	
				CTH O (N MOORLAND RD) (SIGNALIZED INTERSECTION)		PAINT: DUAL LEFT TURN (TURKEY TRACK) (total of 3 set, turkey track through intersection)		312	
				from Moorland Rd to N Eastmoor Ave (USH18- Main line)		Paint Existing 8" CHANNELIZING MARKINGS FROM MOORLAND TO 124TH ST		3500	
				NOTE: PAINT ALL LONG LINE (4"x8", E.L.,L.L. SKIPS AND DOT PATTERNS) MARKINGS		EB (RT turn lane) and WB (RT turn lane) -Paint Existing: 8" Chan. (skips and or Dot Patterns) Markings (est.4000')		52800	
				TERRACE DR					
				N PROSPECT DR					
				N LEANORE LN					
				N LYNNWOOD LN					
				N ROSEDALE DR					
				N ELMRIDGE AVE					
				N PARK BLVD					
				N BEAUMONT AVE					
				VERNON PL					
				N EASTMOOR AVE					
				N SUNNYSLOPE RD (SIGNALIZED INTERSECTION)			1000	204	
				MEADOW LN					
				BISHOPS WAY					
				PARK CIR					
				ELM GROVE RD			1045	192	
				N COLUMBIA BLVD					
				MAJOR SIGNALIZED INTERSECTION / TO DRIVEWAY(S)		PAINT: DUAL LEFT TURN (TURKEY TRACK) (total of 1, turkey track through intersection)		400	156
				124TH STR				311	48
105	WAUKESHA	USH 18	5.2	Barker Rd to 124th St		TOTAL =	137280	15991	2784

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Epoxy Pavement Marking - 2022 Var. Hwy (1000-77-22) SE Region Wide				INFORMATION ONLY		646.1020 MARKING LINE EPOXY MAIN LINE Lane line, Edge line, Mini Skips 4-IN L.F.	646.3020 MARKING LINE EPOXY Gore, Channelizing 8-IN L.F.	646.6320 Marking Dotted Extnsn Epoxy 18-IN EA.	646.5020 Marking Arrow Epoxy TYPE 4 EA.	646.5120 Marking Word Epoxy EA.
Item #	County	HWY	Miles	ROUNDABOUT LOCATIONS	REMARKS / COMMENTS					
201	WASHINGTON	STH 145	0.2	STH 145 @ USH 45 NB (ON & OFF) RAMP	NOTE 1: PAINT ONLY THE WHITE PORTION OF ANY CONTRAST (SPECIAL OR LONG LINE) MARKINGS. DO NOT PAINT: DIAGONALS, CURBS, ISLAND NOSE AND CROSSWALKS REFRESH ALL OTHER (SPECIAL & LONG LINE) MARKINGS' APPROACHES WITHIN A 125' MIN. RADIUS FROM THE CENTER OF THE ROUNDABOUT PAINT (300' EAST / 250' WEST) ON MAIN LINE RAMP'S REFRESH: ALL (4" & 8") MARKINGS ON EACH (ON/OFF) RAMP'S, WHERE APPLICABLE	2200 3400	200	75	1	2
Totals						5600	200	75	1	0
201	WASHINGTON	STH 145	0.2	STH 145 @ USH 45 NB (ON & OFF) RAMP					1	0

Epoxy Pavement Marking - 2022 Var. Hwy (1000-77-22) SE Region Wide				INFORMATION ONLY		646.1020 MARKING LINE EPOXY MAIN LINE Lane line, Edge line, Mini Skips 4-IN L.F.	646.3020 MARKING LINE EPOXY Gore, Channelizing 8-IN L.F.	646.6320 Marking Dotted Extnsn Epoxy 18-IN EA.	646.5020 Marking Arrow Epoxy TYPE 1 EA.	646.5120 Marking Word Epoxy EA.
Item #	County	HWY	Miles	ROUNDABOUT LOCATION	REMARKS / COMMENTS					
202	WASHINGTON	STH 145	0.2	STH 145 @ USH 45 SB (ON & OFF) RAMP	NOTE 1: PAINT ONLY THE WHITE PORTION OF ANY CONTRAST (SPECIAL OR LONG LINE) MARKINGS. DO NOT PAINT: DIAGONALS, CURBS, ISLAND NOSE AND CROSSWALKS REFRESH ALL OTHER (SPECIAL & LONG LINE) MARKINGS' APPROACHES WITHIN A 125' MIN. RADIUS FROM THE CENTER OF THE ROUNDABOUT PAINT (250' EAST / 225' WEST) ON MAIN LINE RAMP'S REFRESH: ALL (4" & 8") MARKINGS ON EACH (ON/OFF) RAMP'S, WHERE APPLICABLE	1900 3522	250	100	2	7
Totals						5422	510	100	2	9
202	WASHINGTON	STH 145	0.2	STH 145 @ USH 45 SB (ON & OFF) RAMP					4	2

Epoxy Pavement Marking - 2022 Var. Hwy (1000-77-22) SE Region Wide				INFORMATION ONLY		646.1020 MARKING LINE EPOXY MAIN LINE Lane line, Edge line, Mini Skips 4-IN L.F.	646.3020 MARKING LINE EPOXY Gore, Channelizing 8-IN L.F.	646.6320 Marking Dotted Extnsn Epoxy 18-IN EA.	646.5020 Marking Arrow Epoxy TYPE 1 EA.					646.5120 Marking Word Epoxy EA.
Item #	County	HWY	Miles	ROUNDABOUT LOCATION	REMARKS / COMMENTS				TYPE 1	TYPE 2	TYPE 3	TYPE 4	TYPE 3R	EA.
203	WASHINGTON	STH 145	0.2	STH 145 @ Cabela WAY/HELSAN DR	NOTE 1: PAINT ONLY THE WHITE PORTION OF ANY CONTRAST (SPECIAL OR LONG LINE) MARKINGS. DO NOT PAINT: DIAGONALS, CURBS, ISLAND NOSE AND CROSSWALKS REFRESH ALL OTHER (SPECIAL & LONG LINE) MARKINGS' APPROACHES WITHIN A 125' MIN. RADIUS FROM THE CENTER OF THE ROUNDABOUT PAINT (225' EAST / 190' WEST) ON MAIN LINE REFRESH: ALL (4" & 8") MARKINGS ON CABELA WAY AND HELSAN DR., WHERE APPLICABLE PAINT: CABELA (500' SB), HELSAN (138' NB)	1660 1920	150	110	2	7	3	4	5	4
Totals						3580	450	110	2	2	7	1	5	9
203	WASHINGTON	STH 145	0.2	STH 145 @ Cabela WAY/HELSAN DR										

SHEET: 10 OF 18

PROJECT NO: 1000-77-22	HWY: VARIOUS	COUNTY: VARIOUS	MISCELLANEOUS QUANTITIES	SHEET: E
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Epoxy Pavement Marking - 2022 Var. Hwy (1000-77-22) SE Region Wide					INFORMATION ONLY		646.1020 MARKING LINE EPOXY MAIN LINE Lane line, Edge line, Mini Skips 4-IN L.F.	646.3020 MARKING LINE EPOXY Gore, Channelizing 8-IN L.F.	646.6320 Marking Dotted Extnsn Epoxy 18-IN EA.	646.5020 Marking Arrow Epoxy TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 3R TYPE 7R EA. EA. EA. EA. EA. EA. EA.					646.5120 Marking Word Epoxy EA.
Item #	County	HWY	Miles	LOCATION	REMARKS / COMMENTS										
204	WASHINGTON	STH 145	0.2	STH 145 @ IH 41 NB (ON & OFF) RAMP	NOTE 1: PAINT ONLY THE WHITE PORTION OF ANY CONTRAST (SPECIAL OR LONG LINE) MARKINGS. DO NOT PAINT: DIAGONALS, CURBS, ISLAND NOSE AND CROSSWALKS										
				STH 145 (MAIN LINE)	REFRESH ALL OTHER (SPECIAL & LONG LINE) MARKINGS' APPROACHES WITHIN A 125' MIN. RADIUS FROM THE CENTER OF THE ROUNDABOUT PAINT (343' EAST / 250' WEST) ON MAIN LINE		150	120	7	1	4		2		9
				RAMPS	REFRESH: ALL (4" & 8") MARKINGS ON EACH (ON/OFF) RAMPS, WHERE APPLICABLE		2372 3700						1	2	2
204	WASHINGTON	STH 145	0.2	STH 145 @ IH 41 NB (ON & OFF) RAMP	Totals		6072	300	120	7	1	4	1	4	2

Epoxy Pavement Marking - 2022 Var. Hwy (1000-77-2022) SE Region Wide					INFORMATION ONLY		646.1020 MARKING LINE EPOXY MAIN LINE Lane line, Edge line, Mini Skips 4-IN L.F.	646.3020 MARKING LINE EPOXY Gore, Channelizing 8-IN L.F.	646.6320 Marking Dotted Extnsn Epoxy 18-IN EA.	646.5020 Marking Arrow Epoxy TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 3R EA. EA. EA. EA. EA.					646.5120 Marking Word Epoxy EA.
Item #	County	HWY	Miles	ROUNDABOUT LOCATION	REMARKS / COMMENTS										
204a	WASHINGTON	STH 145	0.2	STH 145 @ IH 41 SB (ON & OFF) RAMP	NOTE 1: PAINT ONLY THE WHITE PORTION OF ANY CONTRAST (SPECIAL OR LONG LINE) MARKINGS. DO NOT PAINT: DIAGONALS, CURBS, ISLAND NOSE AND CROSSWALKS										
				STH 145 (MAIN LINE)	REFRESH ALL OTHER (SPECIAL & LONG LINE) MARKINGS' APPROACHES WITHIN A 125' MIN. RADIUS FROM THE CENTER OF THE ROUNDABOUT PAINT (250' EAST / 384' WEST) ON MAIN LINE		200	120	6		3			2	6
				RAMPS	REFRESH: ALL (4" & 8") MARKINGS ON EACH (ON/OFF) RAMPS, WHERE APPLICABLE		2536 3522			2			1	2	4
204a	WASHINGTON	STH 145	0.2	STH 145 @ IH 41 SB (ON & OFF) RAMP	Totals		6058	360	120	6	2	3	1	4	10

Epoxy Pavement Marking - 2022 Var. Hwy (1000-77-22) SE Region Wide					INFORMATION ONLY		646.1020 MARKING LINE EPOXY MAIN LINE Lane line, Edge line, Mini Skips 4-IN L.F.	646.6320 Marking Dotted Extnsn Epoxy 18-IN EA.	646.5020 Marking Arrow Epoxy TYPE 1 TYPE 2 TYPE 3 TYPE 3R TYPE 7R EA. EA. EA. EA. EA.					646.5120 Marking Word Epoxy EA.	
Item #	County	HWY	Miles	ROUNDABOUT LOCATION	REMARKS / COMMENTS										
205	WASHINGTON	STH 60	0.2	STH 60 @ CTH C (HILLSIDE RD)	NOTE 1: PAINT ONLY THE WHITE PORTION OF ANY CONTRAST (SPECIAL) MARKINGS. DO NOT PAINT: DIAGONALS, CURBS, ISLAND NOSE AND CROSSWALKS DO NOT PAINT: LONG LINE, (4" / 8") MARKINGS										
				STH 145 (MAIN LINE)	REFRESH ALL OTHERS SPECIAL MARKINGS' WITHIN OR APPROACHING THE ROUNDABOUT			200		2		5		6	8
205	WASHINGTON	STH 60	0.2	STH 60 @ CTH C (HILLSIDE RD)	Totals		0	200		2		5		6	8

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Epoxy Pavement Marking - 2022 Var. Hwy (1000-77-22) SE Region Wide				INFORMATION ONLY			646.1020 MARKING LINE EPOXY MAIN LINE Lane line, Edge line, Mini Skips 4-IN L.F.	646.7420 Marking Cross Walk Epoxy Transverse Line 6-IN L.F.	646.3020 MARKING LINE EPOXY Gore, Channelizing 8-IN L.F.	646.6120 Marking Stop Line Epoxy 18-IN L.F.	646.5020 Marking Arrow Epoxy TYPE 2 EA. TYPE 3 EA. TYPE 4 EA. TYPE 5 EA.				646.5220 Marking Symbols Epoxy EA.	646.5120 Marking Word Epoxy EA.
Item #	County	HWY	Miles	LOCATION	REMARKS / COMMENTS											
300	Milw	IH 894	3.7	.10 Miles N. of Lincoln Ave to .10 Miles W. of 84th St.	PAINTING 4" EDGE LANE MARKINGS, dot patterns, skips ADD OR REFRESH 2 EXISTING (TYPE 5) ARROWS REFRESH 8" AUXILIARY LANE MARKINGS (3'GAP/ 9'SPACE)	97680										
				LINCOLN AVE INTER.	REFRESH (UPPER TERMINI) EXISTING SPEC. MRKNGS, EL. STOP BARS, CROSSWORK, 8" CHAN.... WHERE APPLICABLE REFRESH OR ADD TYPE 4 ARROW	3468										
				ON / OFF RAMP(S)	REFRESH (EL. & LL.) MARKINGS REFRESH ARROWS & ONLY(S) AND 8" CHAN. MRKNGS	1500		1500	36	4		2				
				CROSS ROAD BETW. RAMPS												
				W NATIONAL INTER.	REFRESH (UPPER TERMINI) EXISTING SPEC. MRKNGS, EL. STOP BARS, CROSSWORK, 8" CHAN.... WHERE APPLICABLE REFRESH OR ADD TYPE 4 ARROW	8800										
				ON / OFF RAMP(S)	REFRESH (EL. & LL.) MARKINGS REFRESH ARROWS & ONLY(S) AND 8" CHAN. MRKNGS dual left turn (turkey tracks) 8"	2800		200		1248	136	3		4		
				OFF RAMP(S) - 1 NB AND 2 SB TYPE 4 ARROW (S) CROSS ROAD BETW. RAMPS												
				W OKLANDMA AVE INTER.	REFRESH (UPPER TERMINI) EXISTING SPEC. MRKNGS, EL. STOP BARS, CROSSWORK, 8" CHAN.... WHERE APPLICABLE REFRESH OR ADD TYPE 4 ARROW	2400										
				ON / OFF RAMP(S)	REFRESH (EL. & LL.) MARKINGS REFRESH ARROWS & ONLY(S) AND 8" CHAN. MRKNGS dual left turn (turkey tracks) 8"	2800		120		325	72	3		1		
				CROSS ROAD BETW. RAMPS												
				W BELOIT RD (CTHT) INTER.	REFRESH (UPPER TERMINI) EXISTING SPEC. MRKNGS, EL. STOP BARS, CROSSWORK, 8" CHAN.... WHERE APPLICABLE REFRESH 1 AND ADD 2 TYPE 4 ARROW TOTAL OF 3 ON NB OFF RAMP	8650										
				ON / OFF RAMP(S)	REFRESH (EL. & LL.) MARKINGS REFRESH ARROWS & ONLY(S) AND 8" CHAN. MRKNGS			144		120	2	2	2		4	
				SB OFF RAMP- REFRESH ALL EXISTING SPEC. MARKINGS INCL. TYPE 4 ARROW CROSS ROAD BETW. RAMPS CROSS ROAD (RIGHT & LEFT) ENTRANCE(S) TO RAMP												
				INTERCHANGE N-E RAMP (MAIN LINE)	REFRESH SOLID LANE LINE & EDGE LINE MARKINGS (HIGH FRICTION AREA)	1500										
				INTERCHANGE E-N RAMP (MAIN LINE)	REFRESH LANE LINE & EDGE LINE MARKINGS (HIGH FRICTION AREA)											
				1. MILE W OF 84TH ST. INTERCHANGE (END OF PROJ. MARKINGS)	PAINTING 4" EDGE LINE TO PROJ. END (EAST & WEST BEGIN)											
300	Milw	IH 894	3.7	.10 Miles N. of Lincoln Ave to .10 Miles W. of 84th St.	Totals	129598	464	3133	364	12	2	9	2	4	6	

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Epoxy Pavement Marking - 2022 Var. Hwy (1000-77-22) SE Region Wide				INFORMATION ONLY		646.1020 MARKING LINE EPOXY MAIN LINE Lane line, Edge line, Mini Skips 4-IN L.F.	646.7420 Marking Cross Walk Epoxy Transverse Line 6-IN L.F.	646.3020 MARKING LINE EPOXY Gore, Channelizing 8-IN L.F.	646.6120 Marking Stop Line Epoxy 18-IN L.F.	646.5020 Marking Arrow Epoxy TYPE 1 TYPE 2 TYPE 3 TYPE 4 EA EA EA EA				646.5120 Marking Word Epoxy EA
Item #	County	HWY	Miles	LOCATION	REMARKS / COMMENTS									
301	Milwaukee	IH 94	3	Mitchell Inter.(Layton Ave Inter.) To Rawson Ave Inter. (.25 MI. N OF LAYTON BRIDGE) MAIN LINE	PAINT EDGE LINE ONLY	79200								
				(.25 MI. N OF LAYTON BRIDGE) COLLECTIVE / (N & S)- DISTRIBUTION ROADWAYS(2.4 miles)	PAINT EDGE LINE / MINI SKIPS / DOT PATTERNS	25344								
				LAYTON AVE(CTH Y) INTER.										
				ON / OFF RAMP(S) ADD YEILD LINE AT NB OFF RAMP NB & SB OFF RAMP(S)	REFRESH (UPPER TERMINI) EXISTING SPEC.MRKNGS, EL. STOP BARS, CROSSWORK, 8" CHAN... WHERE APPLICABLE REFRESH OR ADD TYPE 4 ARROW	8400		264	2800	156	8	4	2	8
				CROSS ROAD BETW. RAMPS	REFRESH (EL. & LL.) MARKINGS REFRESH ARROWS & ONLY(S) AND 8" CHAN. MRKNGS, WHERE APPLICABLE	3200								
				W COLLEGE AVE INTER.										
				ON / OFF RAMP(S) NB & SB OFF RAMP(S)	REFRESH (UPPER TERMINI) EXISTING SPEC.MRKNGS, EL. STOP BARS, CROSSWORK, 8" CHAN... WHERE APPLICABLE REFRESH OR ADD TYPE 4 ARROW	6880		528	2400	204	12	5	2	12
				CROSS ROAD BETW. RAMPS	REFRESH (EL. & LL.) MARKINGS REFRESH ARROWS & ONLY(S) AND 8" CHAN. MRKNGS, WHERE APPLICABLE dual left turn (turkey tracks) 8"	2800								
									30					
				W RAWSON AVE INTER.										
				ON / OFF RAMP(S) NB OFF RAMP(ONLY)	REFRESH (UPPER TERMINI) EXISTING SPEC.MRKNGS, EL. STOP BARS, CROSSWORK, 8" CHAN... WHERE APPLICABLE REFRESH OR ADD TYPE 4 ARROW	8400			2000	216	2	16	4	16
				CROSS ROAD BETW. RAMPS	REFRESH (EL. & LL.) MARKINGS REFRESH ARROWS & ONLY(S) AND 8" CHAN. MRKNGS, WHERE APPLICABLE dual left turn (turkey tracks) 8"	3200							2	
										30				
301	Milwaukee	IH 94	3	Mitchell Inter.(Layton Ave Inter.) To Rawson Ave Inter.	Totals	137424	792	7260	576	2	36	13	6	36

SHEET:13 OF 18

PROJECT NO:1000-77-22	HWY:VARIOUS	COUNTY:VARIOUS	MISCELLANEOUS QUANTITIES	SHEET:	E
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Epoxy Pavement Marking - 2022 Var. Hwy (1000-77-22) SE Region Wide					INFORMATION ONLY		646.1020 MARKING LINE EPOXY MAIN LINE Lane line, Edge line, Mini Skips 4-IN L.F.	646.3020 MARKING LINE EPOXY Gore, Channelling 8-IN L.F.
SUMMARY			Miles	LOCATION	REMARKS / COMMENTS			
Item #	County	HWY				646.1020	646.3020	
302	MILWAUKEE	IH 43	2.4	.1 Mi. S. of W. North Ave (bridge) to STH 190 (Capital Dr. Bridge) (.1 MI. N OF NORTH AVE BRIDGE) MAIN LINE	PAINT; 4" EDGE LINE, LANE LINE AND 8" CHAN. SKIP (3' LINE, 9' GAP) MARKS... ETC (NO SPEC. MARKINGS) 8" MAIN LINE-- GORES	71280	14400	
				NORTH AVE INTER. SB & NB (ON / OFF RAMPS)	4" EDGE LINE & LANE LINE MARKINGS SKIPS AND DOT PATTERNS WHERE APPLICABLE ON RAMPS	7259		
				W LOCUST ST SB & NB (ON / OFF RAMPS)	4" EDGE LINE & LANE LINE MARKINGS SKIPS AND DOT PATTERNS WHERE APPLICABLE ON RAMPS NO SPEC. MARKINGS	8157		
				W KEEFE AVE NB, OFF RAMP	PAINT; 4" EL., LL. & 8" CHAN. WHERE APPLICABLE NO SPEC. MARKINGS	1600		
				SB (8TH ST), ON RAMP	PAINT; 4" EL., LL. & 8" CHAN. WHERE APPLICABLE NO SPEC. MARKINGS	1536		
				W ATKINSON AVE NB (7TH ST), ON RAMP	PAINT; 4" EL., LL. & 8" CHAN. WHERE APPLICABLE NO SPEC. MARKINGS	1200		
				SB (8TH ST), OFF RAMP	PAINT; 4" EL., LL. & 8" CHAN. WHERE APPLICABLE NO SPEC. MARKINGS	1547		
				STH 190 (Capital Dr. Bridge) SB (9TH ST), ON RAMP		1700		
				NB, OFF RAMP (TO STH 190)	PAINT; 4" EL., LL. & 8" CHAN. WHERE APPLICABLE NO SPEC. MARKINGS	1600		
302	MILWAUKEE	IH 43	2.4	.1 Mi. S. of W. North Ave (bridge) to STH 190 (Capital Dr. Bridge)	Totals	95879	14400	

Epoxy Pavement Marking - 2022
 Var. Hwy (1000-77-22)
 SE Region Wide

INFORMATION ONLY

646.1020
 MARKING LINE EPOXY
 MAIN LINE
 Lane line, Edge line, Mini Skips
 4-IN
 L.F.

646.3020
 MARKING LINE EPOXY
 Gore, Channelizing
 8-IN
 L.F.

3

SUMMARY				Miles	LOCATION	REMARKS / COMMENTS	INFORMATION ONLY	
Item #	County	HWY					646.1020 MARKING LINE EPOXY MAIN LINE Lane line, Edge line, Mini Skips 4-IN L.F.	646.3020 MARKING LINE EPOXY Gore, Channelizing 8-IN L.F.
303	MILWAUKEE	IH 43		3.1	STH 100 (Brown Deer Rd) Inter. To W. Silver Spring Dr. Inter. (BEGIN 1500' N. OF STH 100 BRIDGE) MAIN LINE	PAINT: EDGE LINE, LANE LINE, EXISTING (MINI SKIPS / DOT PATTERNS-3'LINE/9'SPCE) MARKINGS 8" MAIN LINE-- GORES	75240	8400
					STH 100 (BROWN DEER RD) INTER. NB AND SB (ON / OFF) RAMP(S) CROSS ROAD BETW. RAMPS	REFRESH 4" EL., LL. & 8" CHAN. WHERE APPLICABLE NO SPEC. MARKINGS NO WORK	10400	
					GOOD HOPE RD, INTER. NB AND SB (ON / OFF) RAMP(S) CROSS ROAD BETW. RAMPS	REFRESH 4" EL., LL. & 8" CHAN. WHERE APPLICABLE NO SPEC. MARKINGS NO WORK	5671	
					W. SILVER SPRING DR INTER. NB AND SB (ON / OFF) RAMP(S) +NB (SECONDARY) RAMPS CROSS ROAD BETW. RAMPS	REFRESH 4" EL., LL. & 8" CHAN. WHERE APPLICABLE NO SPEC. MARKINGS REFRESH 4" EL., LL. & 8" CHAN. WHERE APPLICABLE NO SPEC. MARKINGS NO WORK	12857	
303	MILWAUKEE	IH 43		3.1	STH 100 (Brown Deer Rd) Inter. To W. Silver Spring Dr. Inter.	Totals	104168	8400

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Epoxy Pavement Marking - 2022 Var. Hwy (1000-77-22) SE Region Wide				INFORMATION ONLY		646.1020 MARKING LINE EPOXY MAIN LINE Lane line, Edge line, Mini Skips 4-IN L.F.	646.7420 Marking Cross Walk Epoxy Transverse Line 6-IN L.F.	646.3020 MARKING LINE EPOXY Gore, Channellizing 8-IN L.F.	646.6120 Marking Stop Line Epoxy 18-IN L.F.	646.5020 Marking Arrow Epoxy TYPE 2 EA. TYPE 3 EA. TYPE 4 EA. TYPE 5 EA.				646.5120 Marking Word Epoxy EA.	
Item #	County	HWY	Miles	LOCATION	REMARKS / COMMENTS										
304	OZAUKEE	IH 43	17.6	STH 32 (SOUTHERN INTER.) TO SHEBOYGAN/OZ. CO. LINE START AT STH 32 BRIDGE (SOUTHERN INTER.) MAIN LINE STH 32 / CTH V INTERCHANGE (COMPLETED 2021 PROJ)	START MARKING SB AT BRIDGE END MARKING: NB @ BRIDGE PAINT: 4" EDGE LINE, PAINT EXISTING: SKIPS AND OR DOT PATTERNS DO NOT PAINT LANE LINE ADDING TYPE 5 ARROW (ON MAIN LINE)	23232									1
				STH 33 INTER. (E. GREEN BAY AVE) NB & SB (ON / OFF) RAMP(S) REFRESH 1 AND ADD 2 TYPE 4 ARROW TOTAL OF 3 ON NB OFF RAMP SB OFF RAMP ADD YIELD LINE SB OFF RAMP(S) CROSS ROAD BETW. RAMPS CROSS ROAD (RIGHT & LEFT) ENTRANCE(S) TO RAMP	REFRESH (UPPER TERMINI) EXISTING SPEC.MRKNGS, EL. STOP BARS, CROSSWORK, 8" CHAN... WHERE APPLICABLE REFRESH OR ADD TYPE 4 ARROW REFRESH (EL. & LL.) MARKINGS REFRESH ARROWS & ONLY(S) AND 8" CHAN. MRKNGS, WHERE APPLICABLE DUAL LEFT TURN (TURKEY TRACK)	8245	480	1100	228	8	4	2			7
				STH 57 (NB & SB) RAMPS MAIN LINE (NB RAMP) MARKINGS TO STH 57 ENDS AT GORE SPLIT 4" EDGE LINE CONTINUE TO OZ. CO. LINE MAIN LINE (SB RAMP) MARKINGS FROM STH 57 BEGIN AT GORE SPLIT	PAINT EXISTING: SKIPS AND OR DOT PATTERNS (3"LINE,9"GAP)MARKS PAINT EXISTING: SKIPS AND OR DOT PATTERNS (3"LINE,9"GAP)MARKS	800				3					2
				STH 32 (W Wisc. St) / CTH H INTER. NB & SB (ON / OFF) RAMP(S) REFRESH 1 AND ADD 2 TYPE 4 ARROW TOTAL OF 3 ON NB OFF RAMP OFF RAMP(S) CROSS ROAD BETW. RAMPS CROSS ROAD (RIGHT & LEFT) ENTRANCE(S) TO RAMP	REFRESH (UPPER TERMINI) EXISTING SPEC.MRKNGS, EL. STOP BARS, CROSSWORK, 8" CHAN... WHERE APPLICABLE REFRESH OR ADD TYPE 4 ARROW REFRESH (EL. & LL.) MARKINGS REFRESH ARROWS & ONLY(S) AND 8" CHAN. MRKNGS, WHERE APPLICABLE	10944		720	60						6
				CTH D INTER. NB & SB - ON/OFF RAMP(S) OFF RAMP(S)	NO EXISTING CROSS RD MARKINGS (DO NOT PAINT) REFRESH (EL.) MARKINGS REFRESH EXISTING ARROWS & ONLY(S) AND 8" CHAN. MRKNGS, WHERE APPLICABLE REFRESH OR ADD TYPE 4 ARROW NOTE: ITEMS NOT SHOWN OR ACCOUNTED FOR SHALL BE TAKEN OUT OF UNDISTRIBUTED QUANTITIES	4700									1
304	OZAUKEE	IH 43	17.6	STH 32 (SOUTHERN INTER.) TO SHEBOYGAN/OZ. CO. LINE	Totals	49121	480	1853	288	11	4	9	1		9

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Epoxy Pavement Marking - 2022 Var. Hwy (1000-77-22) SE Region Wide				INFORMATION ONLY		646.1020 MARKING LINE EPOXY MAIN LINE Lane line, Edge line, Mini Skips 4-IN L.F.	646.7420 Marking Cross Walk Epoxy Transverse Line 6-IN L.F.	646.3020 MARKING LINE EPOXY Gore, Channelizing 8-IN L.F.	646.6120 Marking Stop Line Epoxy 18-IN L.F.	646.5020 Marking Arrow Epoxy TYPE 1 EA. TYPE 2 EA. TYPE 3 EA. TYPE 4 EA.				646.5220 Marking Symbols Epoxy EA.	646.5120 Marking Word Epoxy EA.
Item #	County	HWY	Miles	LOCATION	REMARKS / COMMENTS										
305	WAUKESHA	IH 41	3.27	2500' N OF STH 145 (BRIDGE) TO CTH Q INTER	MAIN LINE (NOTE: LANE LINE IS TAPE)										
				CTH Q INTER. (COUNTY LINE RD)											
				NB (ON / OFF RAMP(S))	REFRESH (UPPER TERMINI) EXISTING SPEC.MRKNGS, EL. STOP BARS, CROSSWORK, 8" CHAN... WHERE APPLICABLE REFRESH OR ADD TYPE 4 ARROW Dual Left turn (turkey track)	3832	48	750	36	4	2	1			4
				SB (ON / OFF RAMP(S))	DONE 2021 PROJ. (NO WORK)										
				CROSS ROAD BETW. RAMP(S)	REFRESH (LL) MARKINGS REFRESH ARROWS & ONLY(S) AND 8" CHAN. MRKNGS, WHERE APPLICABLE	750		500	96	4					4
				PILGRIM RD (INTER.)											
				NB (1 ON RAMP and 2 OFF RAMP(S))	REFRESH (UPPER TERMINI) EXISTING SPEC.MRKNGS, EL. STOP BARS, CROSSWORK, 8" CHAN... WHERE APPLICABLE DO NOT ADD (TYPE 4 ARROW)	5682								2	
				SB (ON / OFF RAMP(S))	REFRESH (UPPER TERMINI) EXISTING SPEC.MRKNGS, EL. STOP BARS, CROSSWORK, 8" CHAN... WHERE APPLICABLE REFRESH OR ADD TYPE 4 ARROW	3895		750	72	1	5			6	3
				CROSS ROAD BETW. RAMP(S)	2 SET (SB- ON/ OFF) - REFRESH Dual Left turn (turkey track) AT SIGNAL. REFRESH (LL) MARKINGS (paint over tape) REFRESH ARROWS & ONLY(S) AND 8" CHAN. MRKNGS, WHERE APPLICABLE Dual Left turn (turkey track)	900		850	72		9				5
				MAIN ST (INTER)											
				NB (1 ON RAMP and 2 OFF RAMP(S))	REFRESH (UPPER TERMINI) EXISTING SPEC.MRKNGS, EL. STOP BARS, CROSSWORK, 8" CHAN... WHERE APPLICABLE	7229									
				SB (ON / OFF RAMP(S))	REFRESH (UPPER TERMINI) EXISTING SPEC.MRKNGS, EL. STOP BARS, CROSSWORK, 8" CHAN... WHERE APPLICABLE REFRESH OR ADD TYPE 4 ARROW Dual Left turn (turkey track)	5214		600	36		1			6	1
				CROSS ROAD BETW. RAMP(S)	REFRESH (EL & LL) MARKINGS (paint over tape) REFRESH ARROWS & ONLY(S) AND 8" CHAN. MRKNGS, WHERE APPLICABLE Dual Left turn (turkey track)	3780					6				3
				STH 145 (Bridge) INTER.											
				MAIN LINE SB (END PAINTING, 2500' before BRIDGE) NB BEGIN PAINTING, 2500' after BRIDGE											
				NB & SB RAMP(S)	DO NOT PAINT (NO WORK)										
305	WAUKESHA	IH 41	3.27	2500' N OF STH 145 (BRIDGE) TO CTH Q INTER	Totals	101942	48	4895	312	1	29	2	4	12	20

Epoxy Pavement Marking - 2022
 Var. Hwy (1000-77-22)
 SE Region Wide

INFORMATION ONLY

646.1020
 MARKING LINE EPOXY
 MAIN LINE
 Lane line, Edge line, Mini Skips
 4-IN
 L.F.

646.3020
 MARKING LINE EPOXY
 Gore, Channelizing
 8-IN
 L.F.

SUMMARY				LOCATION	REMARKS / COMMENTS		
Item #	County	HWY	Miles			646.1020 MARKING LINE EPOXY MAIN LINE Lane line, Edge line, Mini Skips 4-IN L.F.	646.3020 MARKING LINE EPOXY Gore, Channelizing 8-IN L.F.
306	MILWAUKEE	IH 41	5.06	W Burleigh St to 500' N OF W GOOD HOPE(BRIDGE) Inter. MAIN LINE (NOTE: LANE LINE is TAPE)	PAINT: 4" EDGE LINE, PAINT EXISTING: SKIPS AND OR DOT PATTERNS (3'LINE,9'GAP)MARKS DO NOT PAINT LANE LINE(S) (DO NOT PAINT SPEC. MARKINGS)	108867	
				W Burleigh Interchange NB &SB (ON / OFF RAMPS) CROSS ROAD BETW. RAMPS	PAINT: 4" EDGE LINE, 8" CHAN. ONLY NO WORK (DO NOT PAINT SPEC. MARKINGS)	6824	3000
				STH 190 (W CAPITAL DR) INTER. NB &SB (ON / OFF RAMPS) CROSS ROAD BETW. RAMPS	PAINT: 4" EDGE LINE, 8" CHAN. ONLY NO WORK (DO NOT PAINT SPEC. MARKINGS)	5621	2400
				W HAMPTON AVE INTER. NB &SB (ON / OFF RAMPS) CROSS ROAD BETW. RAMPS	PAINT: 4" EDGE LINE, 8" CHAN. ONLY NO WORK (DO NOT PAINT SPEC. MARKINGS)	7680	1000
				W SILVER SPRING DR. INTER. NB &SB (ON / OFF RAMPS) CROSS ROAD BETW. RAMPS	PAINT: 4" EDGE LINE, 8" CHAN. ONLY NO WORK (DO NOT PAINT SPEC. MARKINGS)	8620	2100
				NB & SB OFF RAMP(S) TO STH 175 / W APPLETON AVE	PAINT: 4" EDGE LINE, ONLY (DO NOT PAINT SPEC. MARKINGS)	5200	
				W GOOD HOPE RD INTER. BRIDGE NB &SB (ON / OFF RAMPS) CROSS ROAD BETW. RAMPS	PAINT: 4" EDGE LINE, 8" CHAN. ONLY NO WORK (DO NOT PAINT SPEC. MARKINGS)	8500	1100
306	MILWAUKEE	IH 41	5.06	W Burleigh St to 500' N OF W GOOD HOPE(BRIDGE) Inter.	Totals	151312	9600

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Epoxy Pavement Marking - 2022 Var. Hwy (1000-77-22) SE Region Wide				INFORMATION ONLY		646.1020 MARKING LINE EPOXY MAIN LINE Lane line, Edge line, Mini Skips 4-IN L.F.	646.7420 Marking Cross Walk Epoxy Transverse Line 6-IN L.F.	646.3020 MARKING LINE EPOXY Gore, Channelizing 8-IN L.F.	646.6120 Marking Stop Line Epoxy 18-IN L.F.	646.5020 Marking Arrow Epoxy				646.5220 Marking Symbols Epoxy EA.	646.5120 Marking Word Epoxy EA.
Item #	County	HWY	Miles	LOCATION	REMARKS / COMMENTS					TYPE 1 EA.	TYPE 2 EA.	TYPE 3 EA.	TYPE 4 EA.		
305	WAUKESHA	IH 41	3.27	2500' N OF STH 145 (BRIDGE) TO CTH Q INTER	MAIN LINE (NOTE: LANE LINE IS TAPE)										
				CTH Q INTER. (COUNTY LINE RD)											
				NB (ON / OFF RAMP(S))	REFRESH (UPPER TERMINI) EXISTING SPEC.MRKNGS, EL. STOP BARS, CROSSWORK, 8" CHAN... WHERE APPLICABLE REFRESH OR ADD TYPE 4 ARROW Dual Left turn (turkey track)	3832	48	750	36	4	2		1		4
				SB (ON / OFF RAMP(S))	DONE 2021 PROJ. (NO WORK)										
				CROSS ROAD BETW. RAMPS	REFRESH (LL) MARKINGS REFRESH ARROWS & ONLY(S) AND 8" CHAN. MRKNGS, WHERE APPLICABLE	750		500	96	4					4
				PILGRIM RD (INTER.)											
				NB (1 ON RAMP and 2 OFF RAMP(S))	REFRESH (UPPER TERMINI) EXISTING SPEC.MRKNGS, EL. STOP BARS, CROSSWORK, 8" CHAN... WHERE APPLICABLE DO NOT ADD (TYPE 4 ARROW)	5682								2	
				SB (ON / OFF RAMP(S))	REFRESH (UPPER TERMINI) EXISTING SPEC.MRKNGS, EL. STOP BARS, CROSSWORK, 8" CHAN... WHERE APPLICABLE REFRESH OR ADD TYPE 4 ARROW	3895		750	72	1	5		1	6	3
				CROSS ROAD BETW. RAMPS	2 SET(SB- ON/ OFF) - REFRESH Dual left turn (turkey track) AT SIGNAL REFRESH (LL) MARKINGS (paint over tape) REFRESH ARROWS & ONLY(S) AND 8" CHAN. MRKNGS, WHERE APPLICABLE Dual Left turn (turkey track)	900		850	72		9				5
				MAIN ST (INTER)											
				NB (1 ON RAMP and 2 OFF RAMP(S))	REFRESH (UPPER TERMINI) EXISTING SPEC.MRKNGS, EL. STOP BARS, CROSSWORK, 8" CHAN... WHERE APPLICABLE	7229									
				SB (ON / OFF RAMP(S))	REFRESH (UPPER TERMINI) EXISTING SPEC.MRKNGS, EL. STOP BARS, CROSSWORK, 8" CHAN... WHERE APPLICABLE REFRESH OR ADD TYPE 4 ARROW Dual Left turn (turkey track)	5214		600	36		1			6	1
				CROSS ROAD BETW. RAMPS	REFRESH (EL & LL) MARKINGS (paint over tape) REFRESH ARROWS & ONLY(S) AND 8" CHAN. MRKNGS, WHERE APPLICABLE Dual Left turn (turkey track)	9780		1328			6				3
				STH 145 (Bridge) INTER.											
				MAIN LINE SB (END PAINTING, 2500' before BRIDGE) NB BEGIN PAINTING, 2500' after BRIDGE											
				NB & SB RAMPS	DO NOT PAINT (NO WORK)										
305	WAUKESHA	IH 41	3.27	2500' N OF STH 145 (BRIDGE) TO CTH Q INTER	Totals	101942	48	4895	312	1	29	2	4	12	20

Epoxy Pavement Marking - 2022
 Var. Hwy (1000-77-22)
 SE Region Wide

INFORMATION ONLY

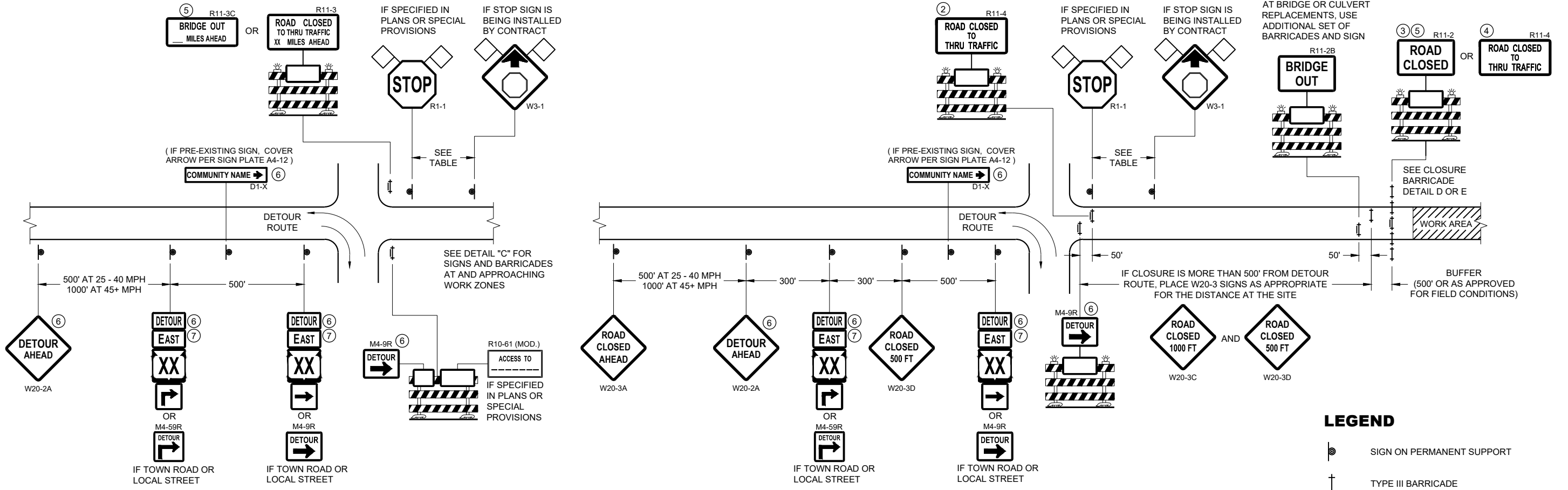
646.1020
 MARKING LINE EPOXY
 MAIN LINE
 Lane line, Edge line, Mini Skips
 4-IN
 L.F.

646.3020
 MARKING LINE
 EPOXY
 Gore, Channelizing
 8-IN
 L.F.

SUMMARY				LOCATION	REMARKS / COMMENTS		
Item #	County	HWY	Miles			646.1020	646.3020
306	MILWAUKEE	IH 41	5.06	W Burleigh St to 500' N OF W GOOD HOPE(BRIDGE) Inter. MAIN LINE (NOTE: LANE LINE is TAPE)	PAINT: 4" EDGE LINE, PAINT EXISTING: SKIPS AND OR DOT PATTERNS (3'LINE,9'GAP)MARKS DO NOT PAINT LANE LINE(S) (DO NOT PAINT SPEC. MARKINGS)	108867	
				W Burleigh Interchange NB &SB (ON / OFF RAMPS) CROSS ROAD BETW. RAMPS	PAINT: 4" EDGE LINE, 8" CHAN. ONLY NO WORK (DO NOT PAINT SPEC. MARKINGS)	6824	3000
				STH 190 (W CAPITAL DR) INTER. NB &SB (ON / OFF RAMPS) CROSS ROAD BETW. RAMPS	PAINT: 4" EDGE LINE, 8" CHAN. ONLY NO WORK (DO NOT PAINT SPEC. MARKINGS)	5621	2400
				W HAMPTON AVE INTER. NB &SB (ON / OFF RAMPS) CROSS ROAD BETW. RAMPS	PAINT: 4" EDGE LINE, 8" CHAN. ONLY NO WORK (DO NOT PAINT SPEC. MARKINGS)	7680	1000
				W SILVER SPRING DR. INTER. NB &SB (ON / OFF RAMPS) CROSS ROAD BETW. RAMPS	PAINT: 4" EDGE LINE, 8" CHAN. ONLY NO WORK (DO NOT PAINT SPEC. MARKINGS)	8620	2100
				NB & SB OFF RAMP(S) TO STH 175 / W APPLETON AVE	PAINT: 4" EDGE LINE, ONLY (DO NOT PAINT SPEC. MARKINGS)	5200	
				W GOOD HOPE RD INTER. BRIDGE NB &SB (ON / OFF RAMPS) CROSS ROAD BETW. RAMPS	PAINT: 4" EDGE LINE, 8" CHAN. ONLY NO WORK (DO NOT PAINT SPEC. MARKINGS)	8500	1100
306	MILWAUKEE	IH 41	5.06	W Burleigh St to 500' N OF W GOOD HOPE(BRIDGE) Inter.	Totals	151312	9600

Standard Detail Drawing List

15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C07-15A	PAVEMENT MARKING SYMBOLS
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C07-15D	ROUNDBABOUT ARROWS
15C08-20C	PAVEMENT MARKING (TURN LANES)
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C14-04	AERIAL ENFORCEMENT BARS PAVEMENT MARKING DETAILS
15C19-06A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-06B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C19-06C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C31-04B	PAVEMENT MARKING MAJOR SPLIT FREEWAY TO FREEWAY
15D12-09D	TRAFFIC CONTROL, LANE CLOSURE, BASIC TRAFFIC QUEUE WARNING SYSTEM
15D16-04	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D20-05A	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D22-04	TRAFFIC CONTROL, TWO LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D37-03	TRAFFIC CONTROL, 2-LANE ROUNDBABOUT



**DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR**

WORK ZONE GREATER THAN OR EQUAL TO 1/2 MILE FROM
DETOUR ROUTE (1000 FEET IF URBAN)

**DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR**

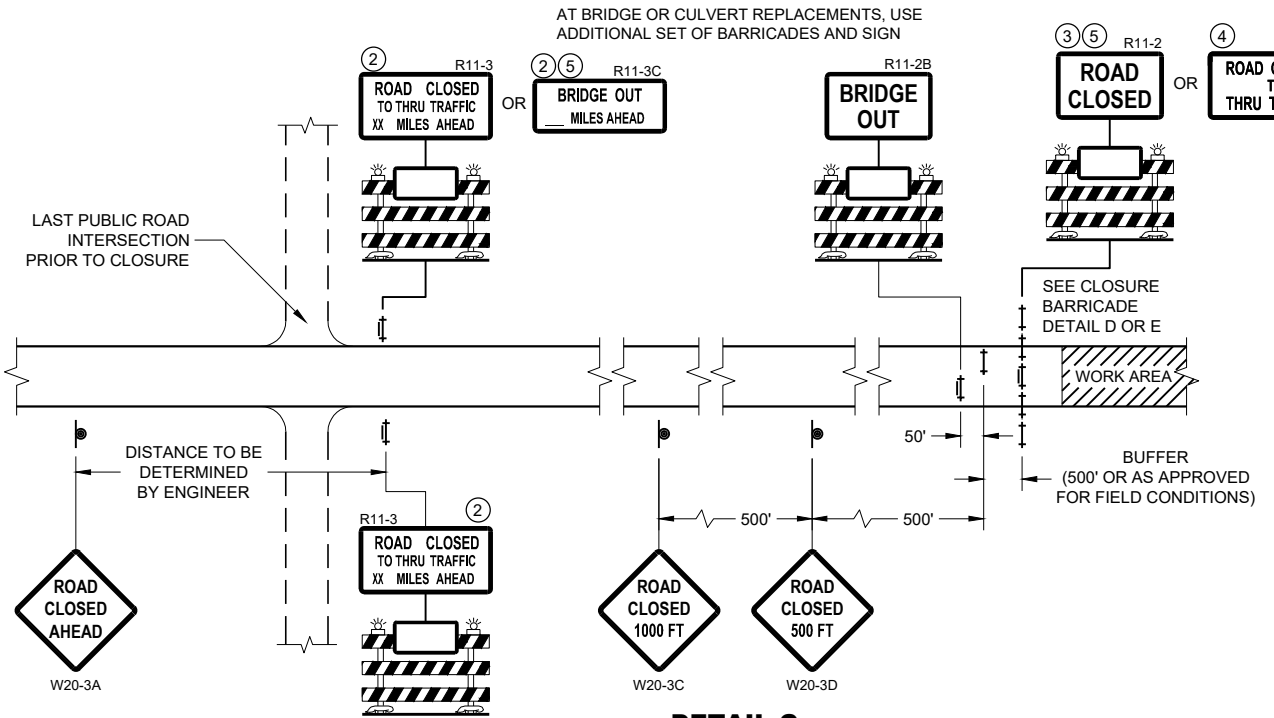
WORK ZONE LESS THAN 1/2 MILE FROM
DETOUR ROUTE (1000 FEET IF URBAN)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

- M4 - 8
- M3 - X
- M1 - 4
- M1 - 6
- M1 - 5A
- M05 - 1
- M06 - 1



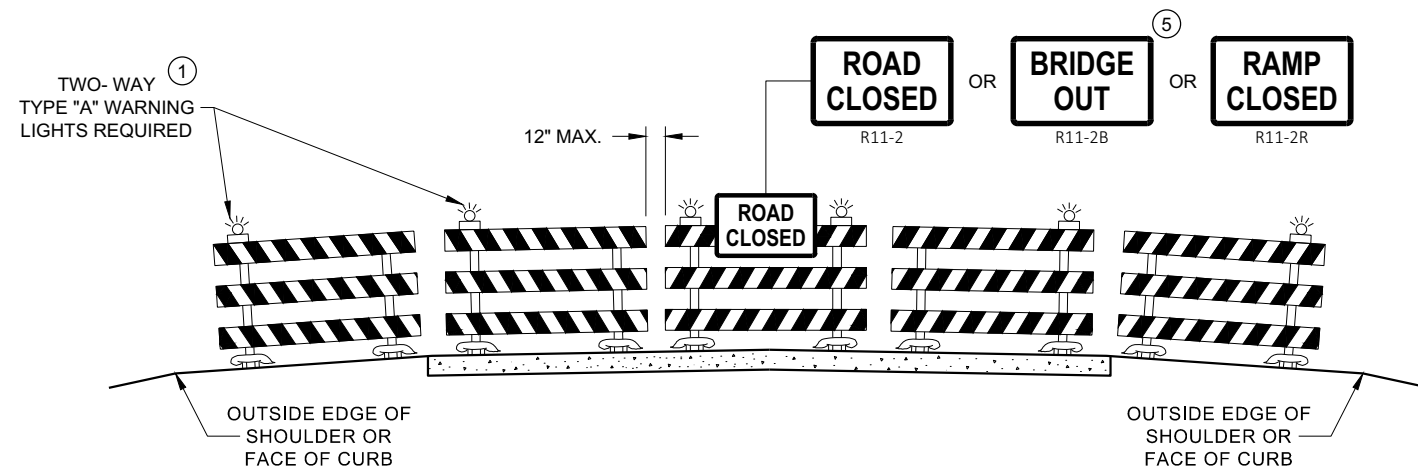
**DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR**

SEE SDD 15C2-SHEET "b"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

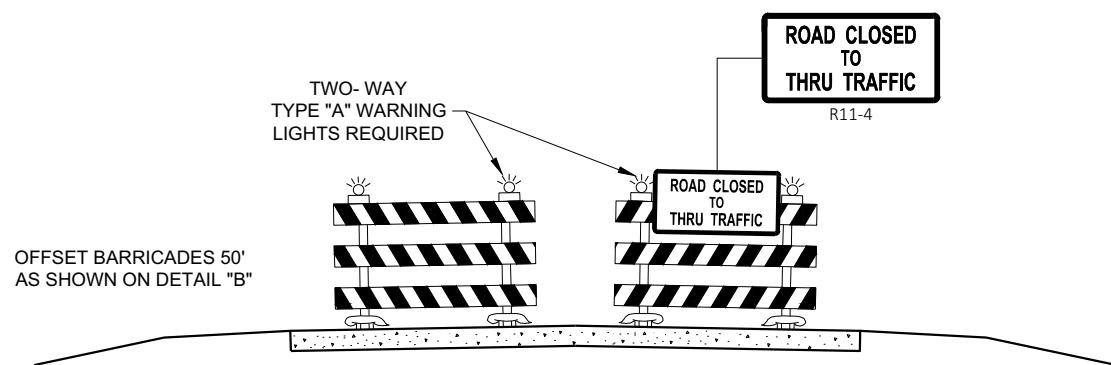
**BARRICADES AND SIGNS
FOR MAINLINE CLOSURES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 /S/ Andrew Heidtke
DATE DATE WORK ZONE ENGINEER
FHWA



**DETAIL D
ROAD CLOSURE BARRICADE DETAIL
APPROACH VIEW**



**DETAIL E
LANE CLOSURE BARRICADE DETAIL
APPROACH VIEW**

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

"WO" AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60" X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

- ① TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING).
- ② THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- ③ FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- ④ FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- ⑤ FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- ⑥ INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- ⑦ "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

**BARRICADES AND SIGNS
FOR
VARIOUS CLOSURES**

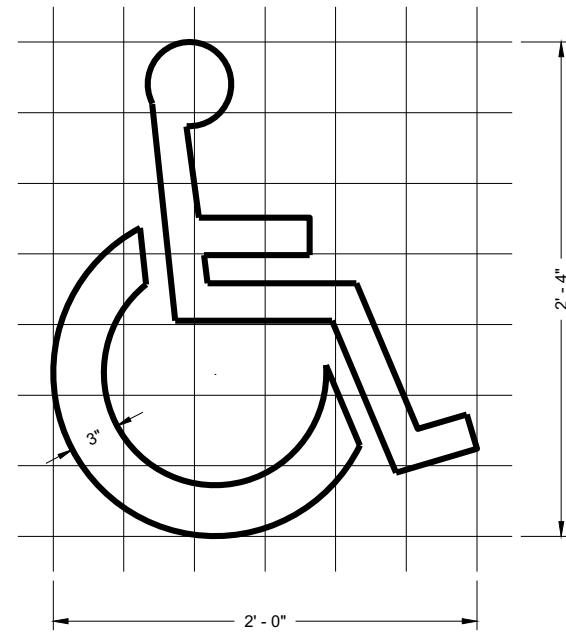
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February 2020 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

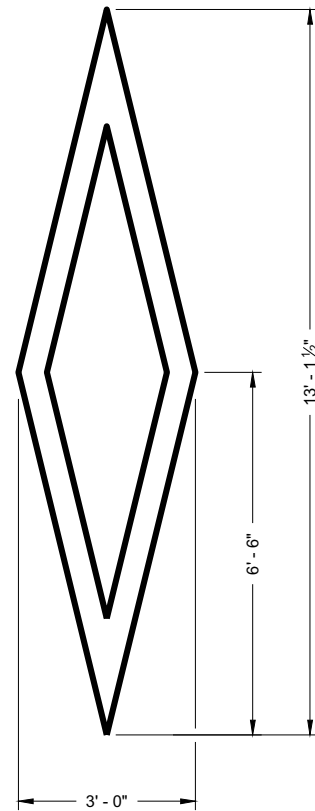
FHWA

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



HANDICAP SYMBOL



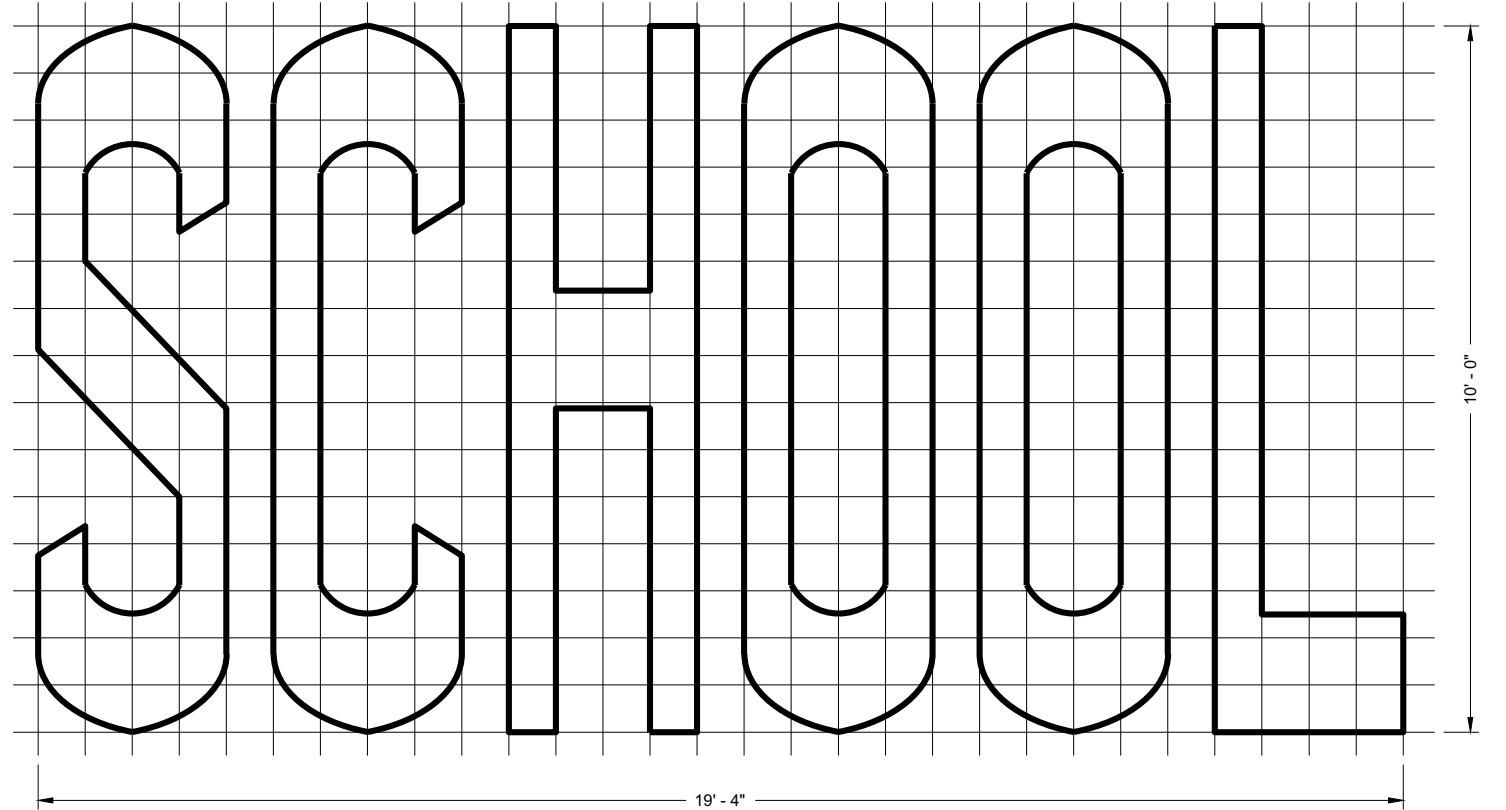
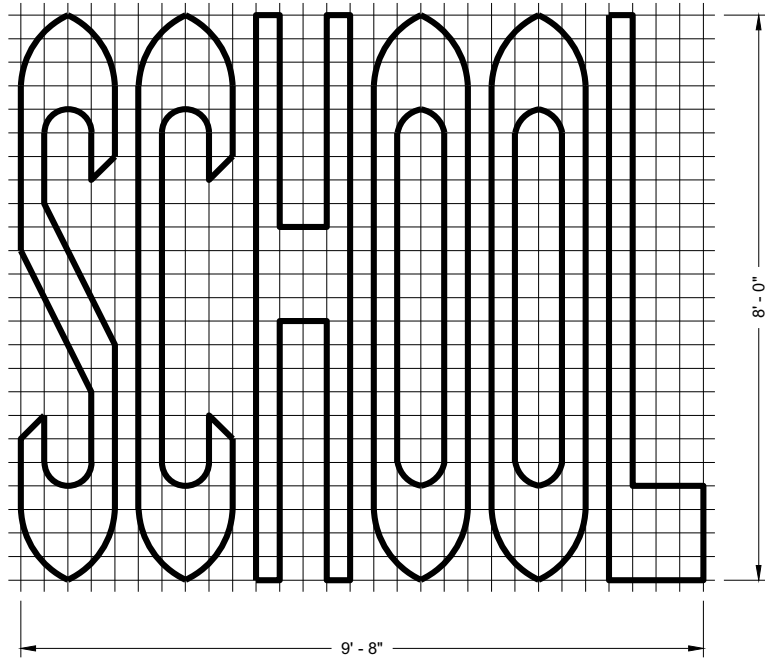
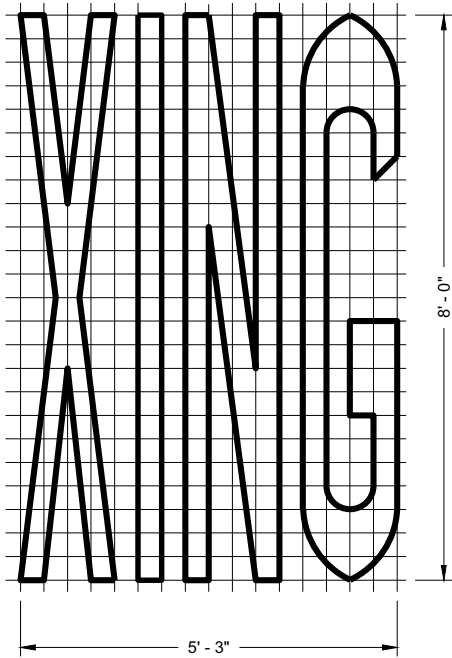
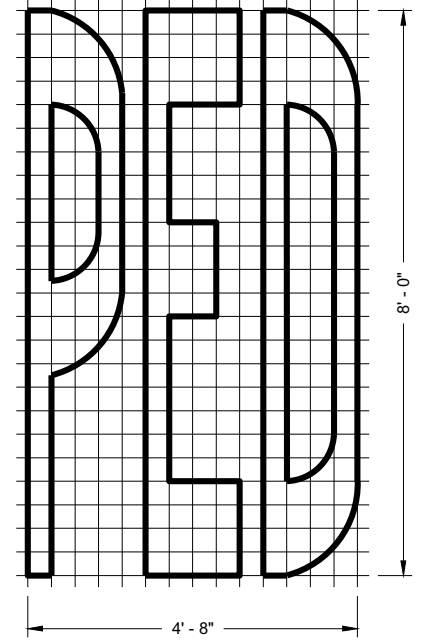
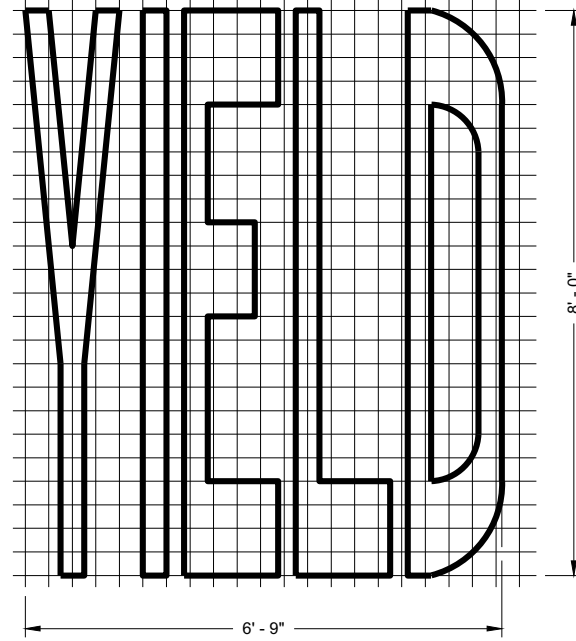
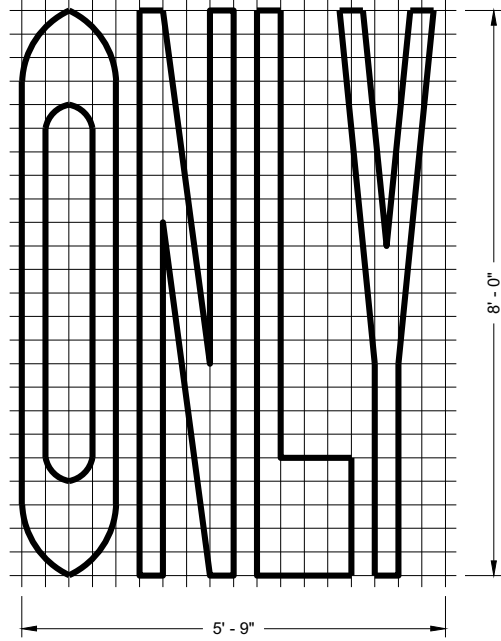
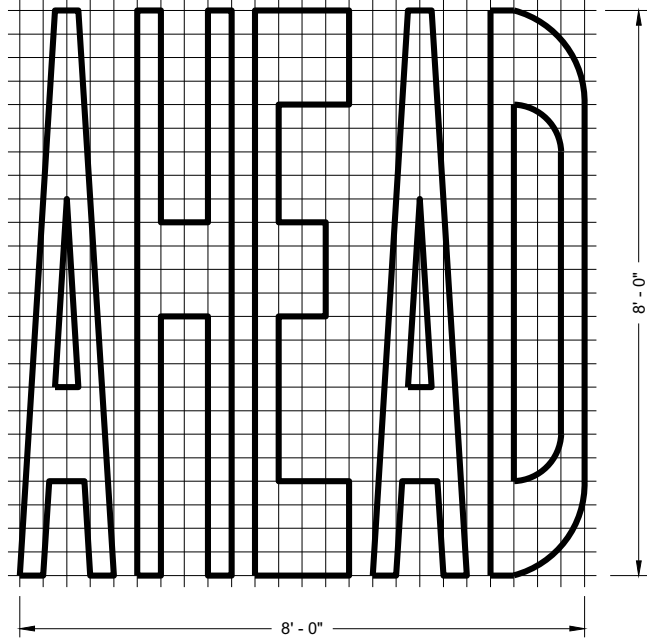
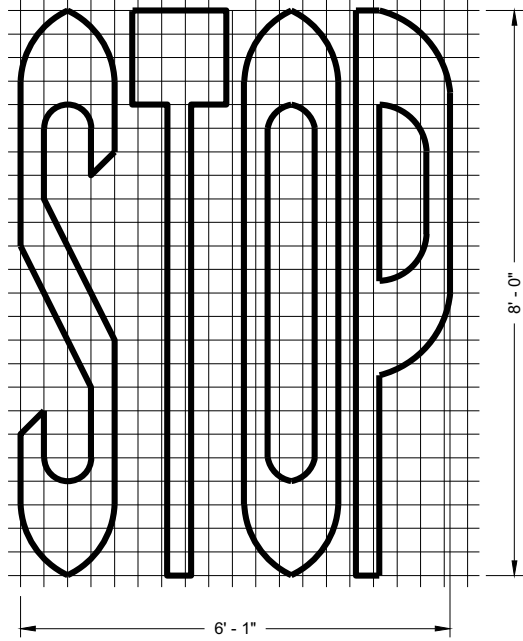
PREFERENTIAL LANE SYMBOL

PAVEMENT MARKING SYMBOLS

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SINGLE LANE

TWO - LANE

GENERAL NOTES

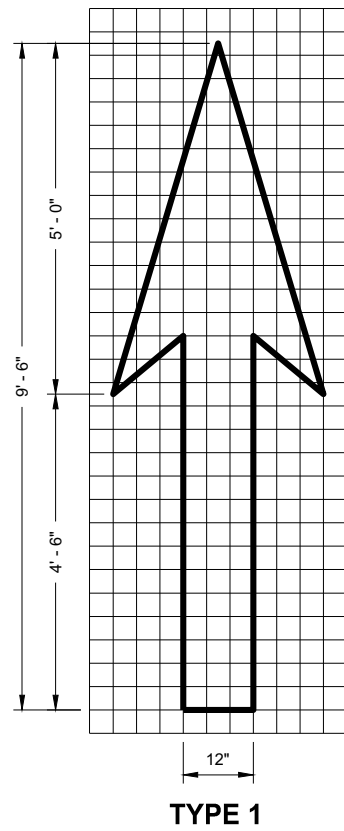
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PAVEMENT MARKING WORDS

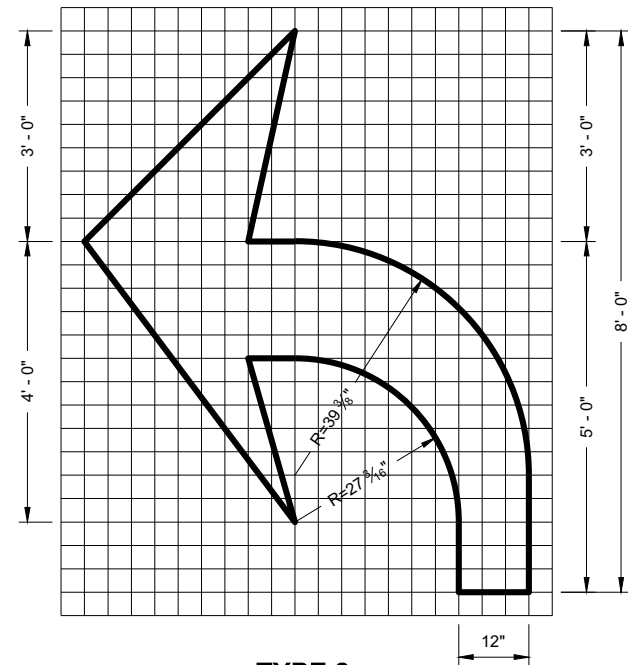
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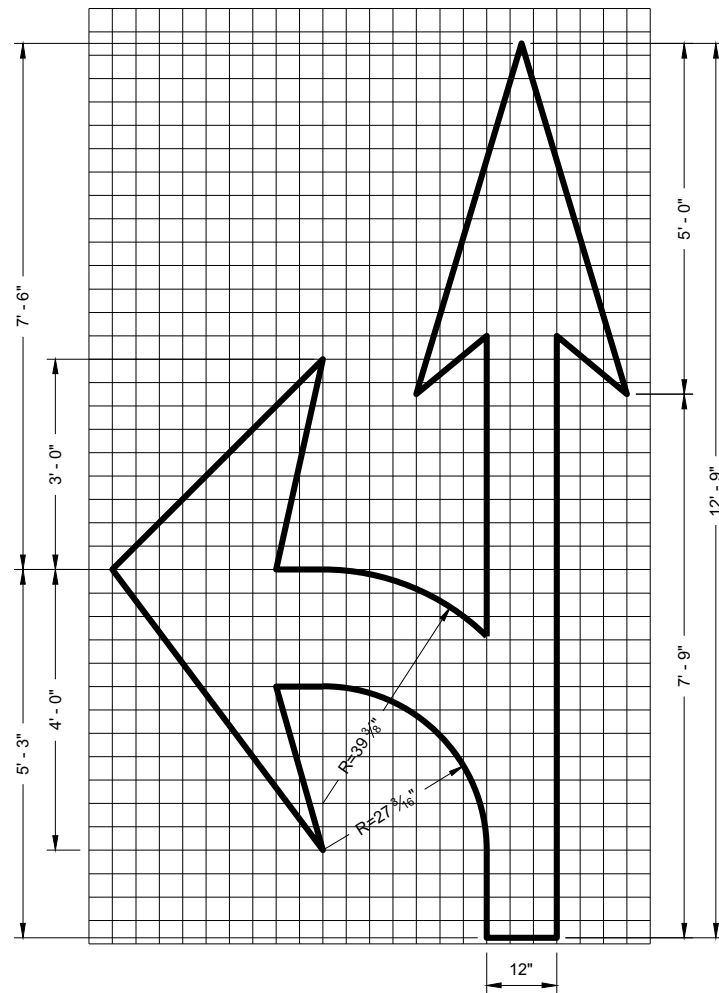
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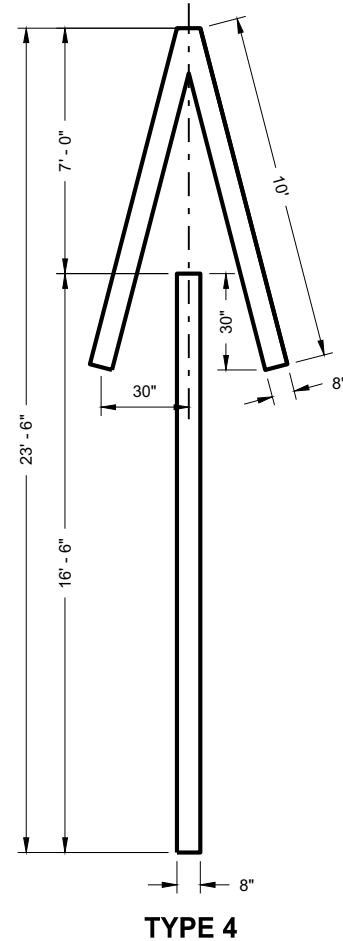
TYPE 1



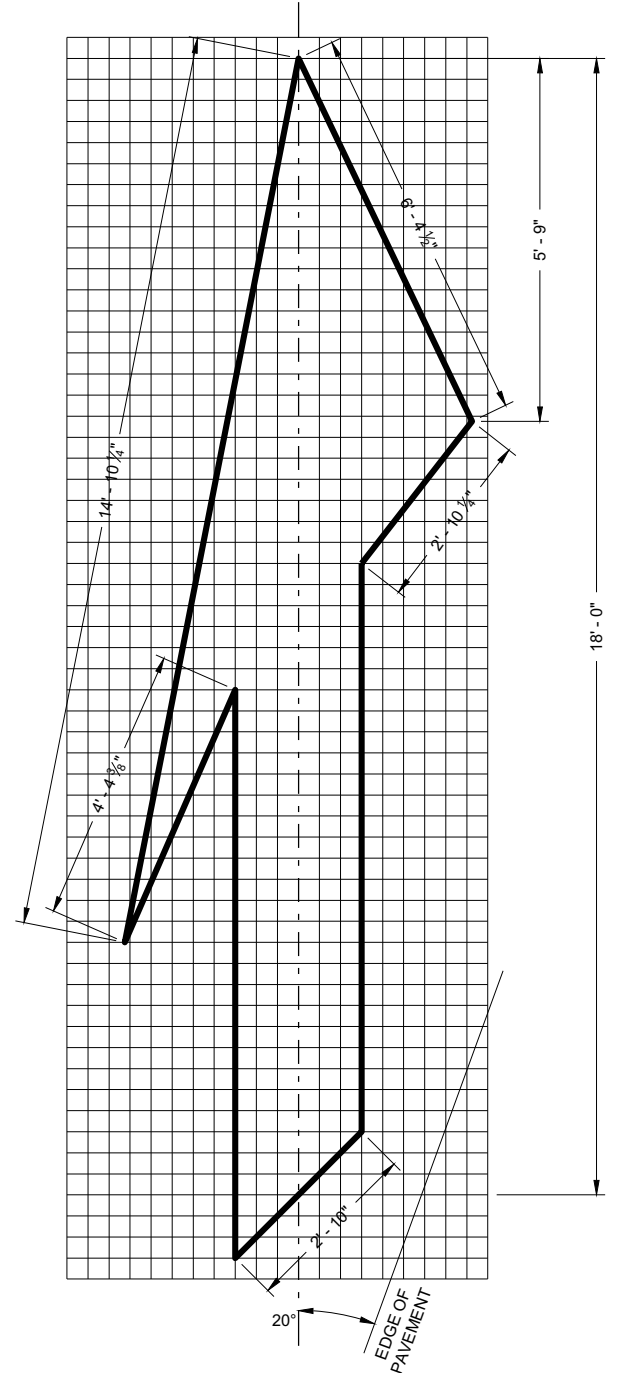
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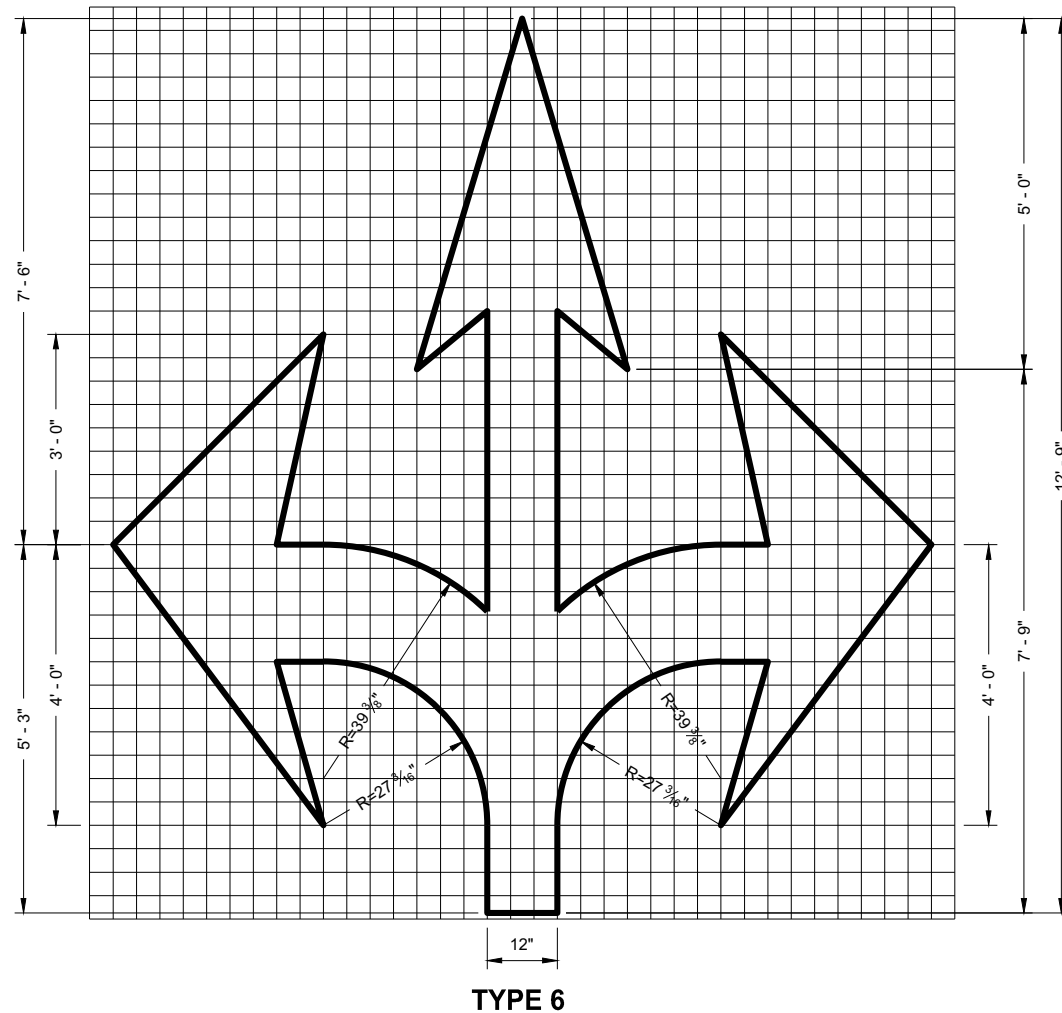
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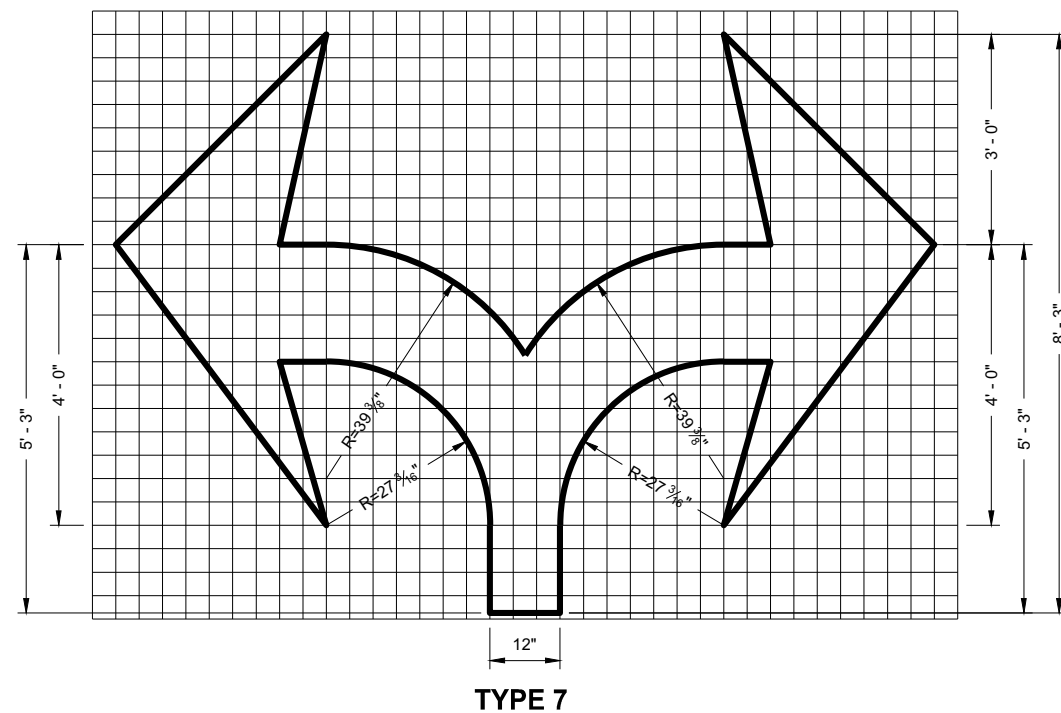
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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November 2019

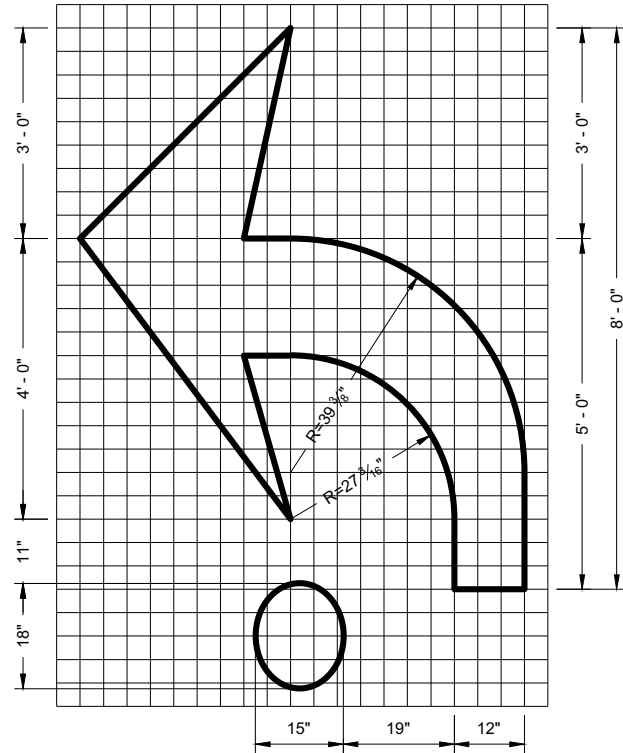
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FHWA

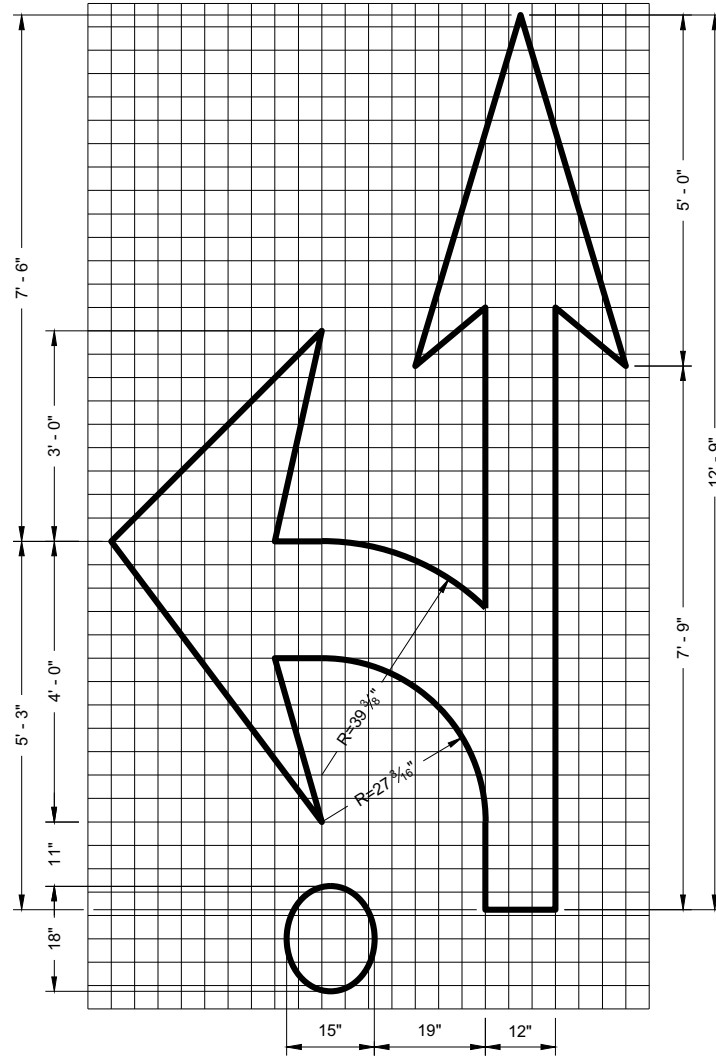
/s/ Matthew Rauch
STATE SIGNING AND MARKING
ENGINEER

GENERAL NOTES

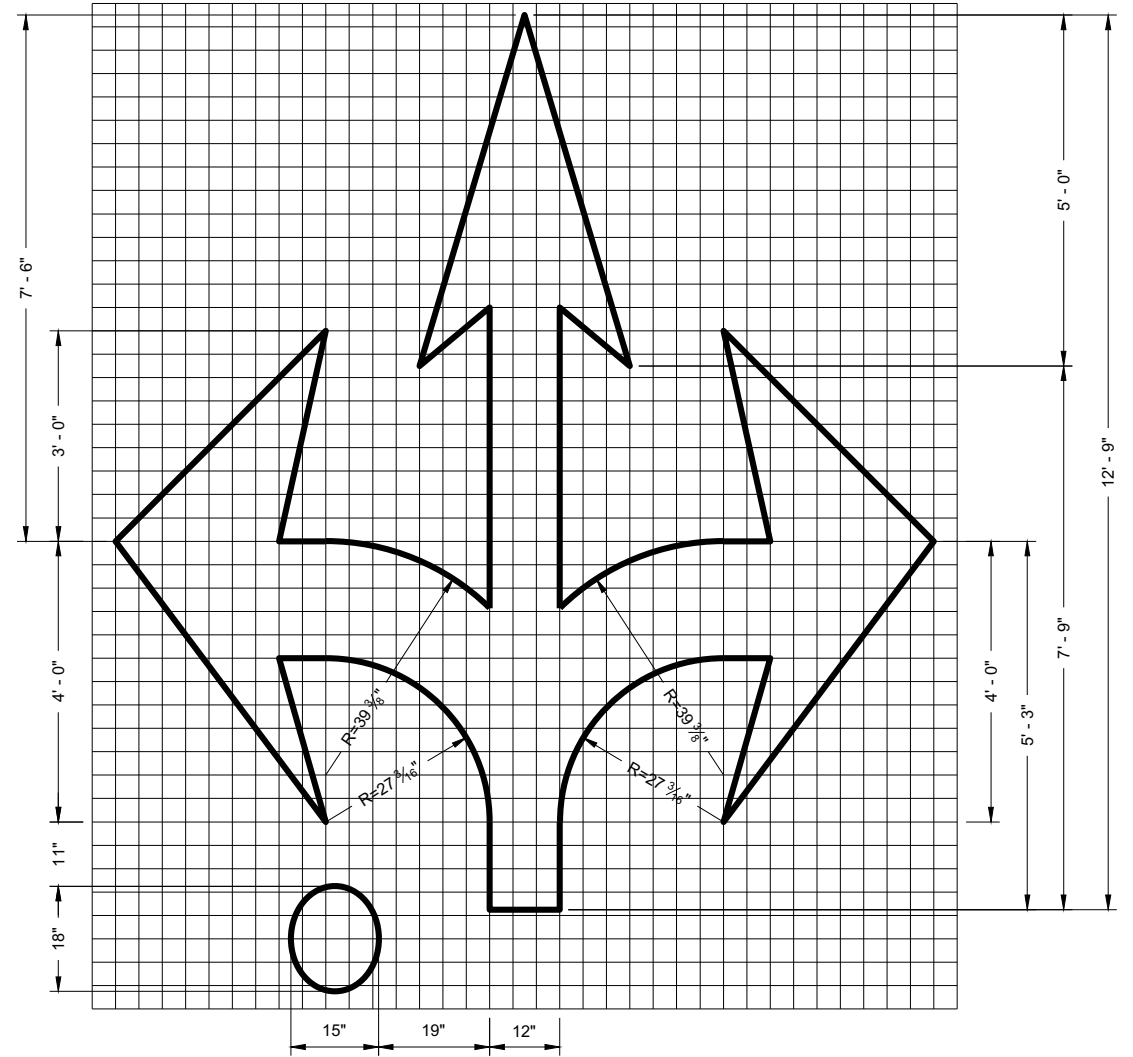
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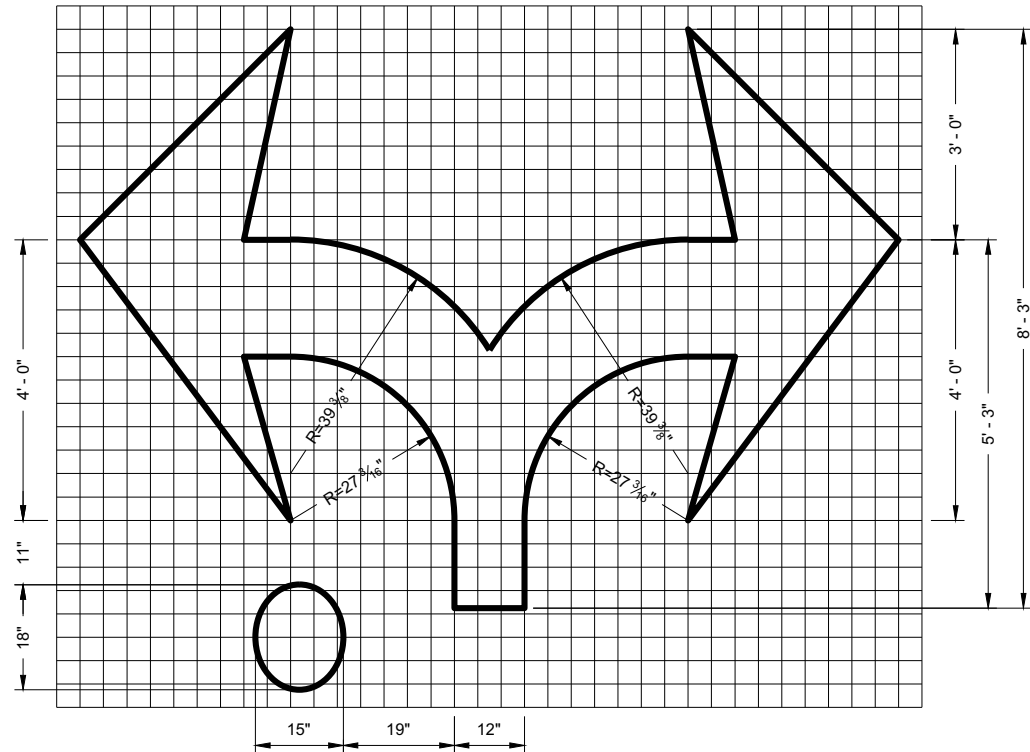
TYPE 2R



TYPE 3R



TYPE 6R



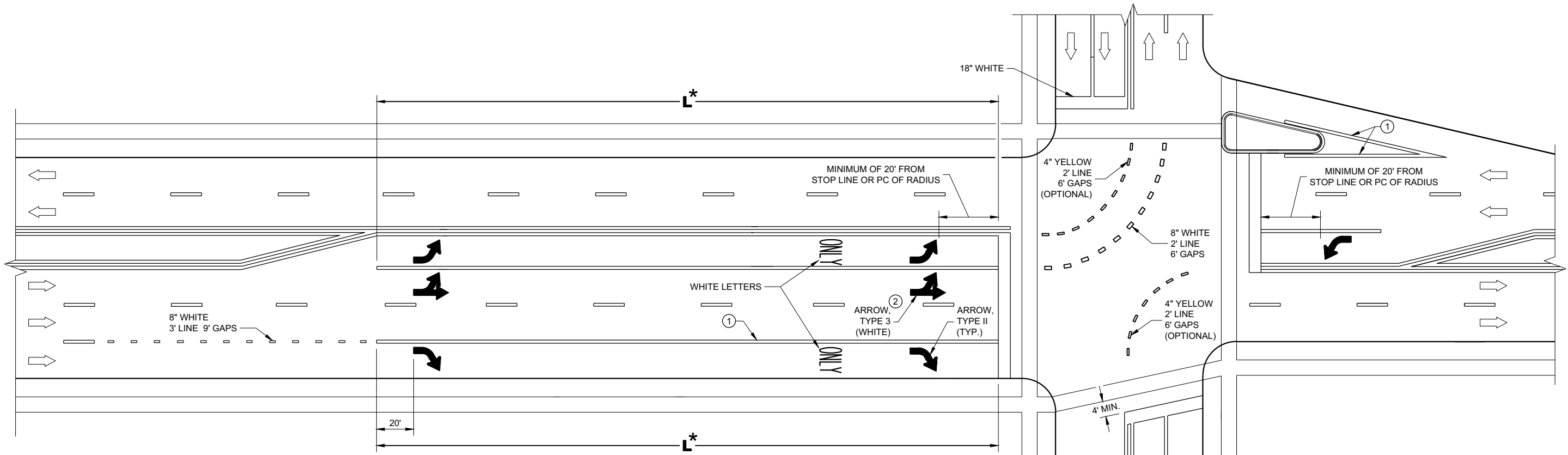
TYPE 7R

**ROUNDBOUT
MARKING ARROWS**

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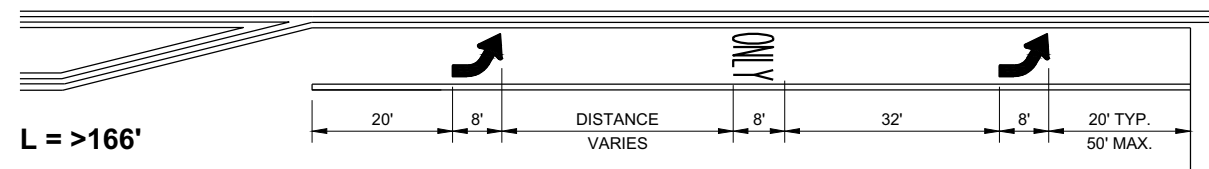
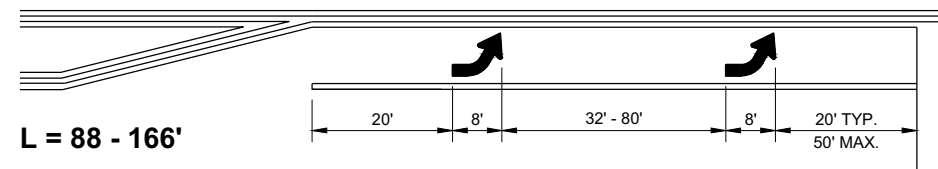
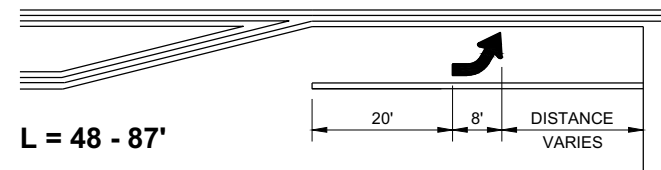
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TURN LANE OPTIONS

LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



*(SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

GENERAL NOTES

- ① 8" WHITE
- ② QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.






➡ DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LEGEND

-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TEMPORARY PORTABLE RUMBLE STRIP ARRAY
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

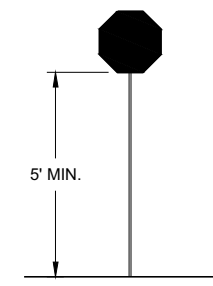
WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGING

- FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.
- ① FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
 - ② SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.
- WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

- UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.
- ③ EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.
- ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST.
- INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.
- PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.
- DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.



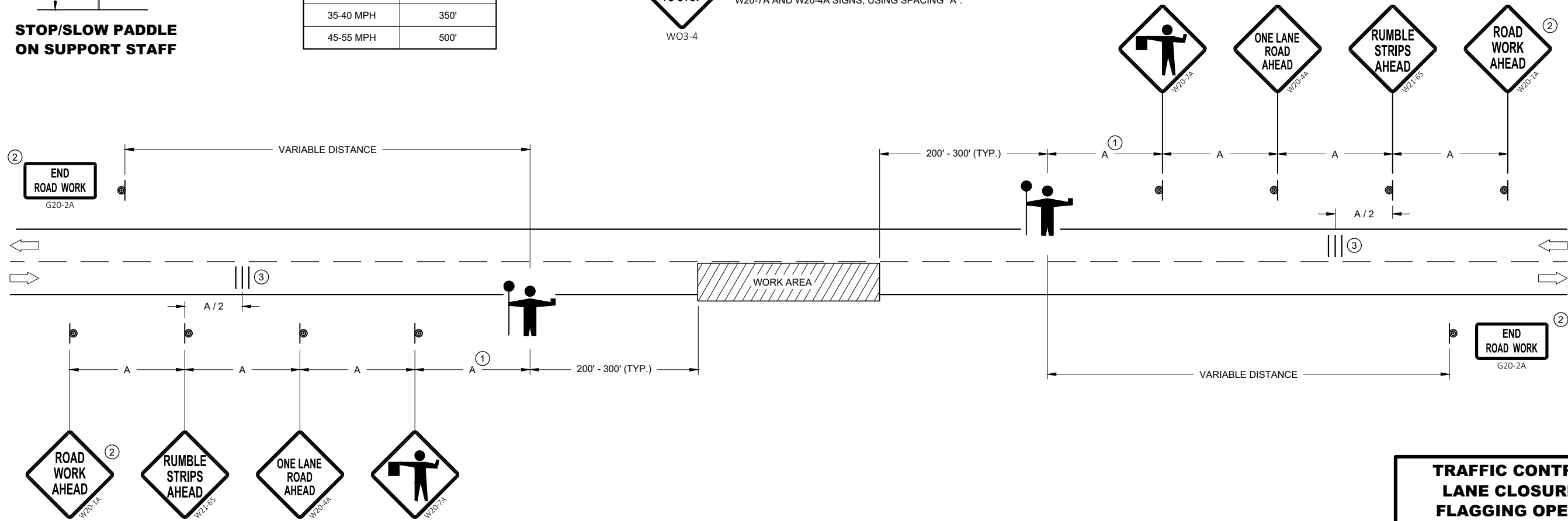
STOP/SLOW PADDLE ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



USE OF W03-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

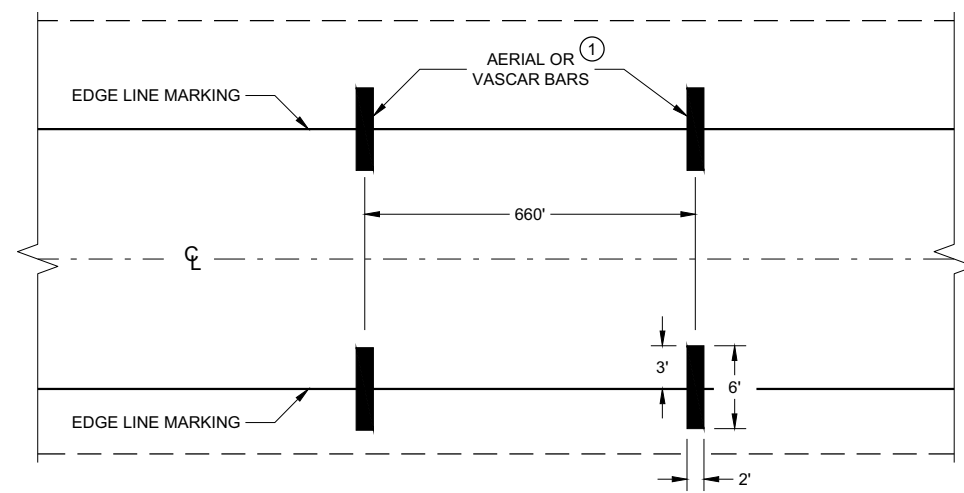
APPROVED
DATE May 2019 /S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

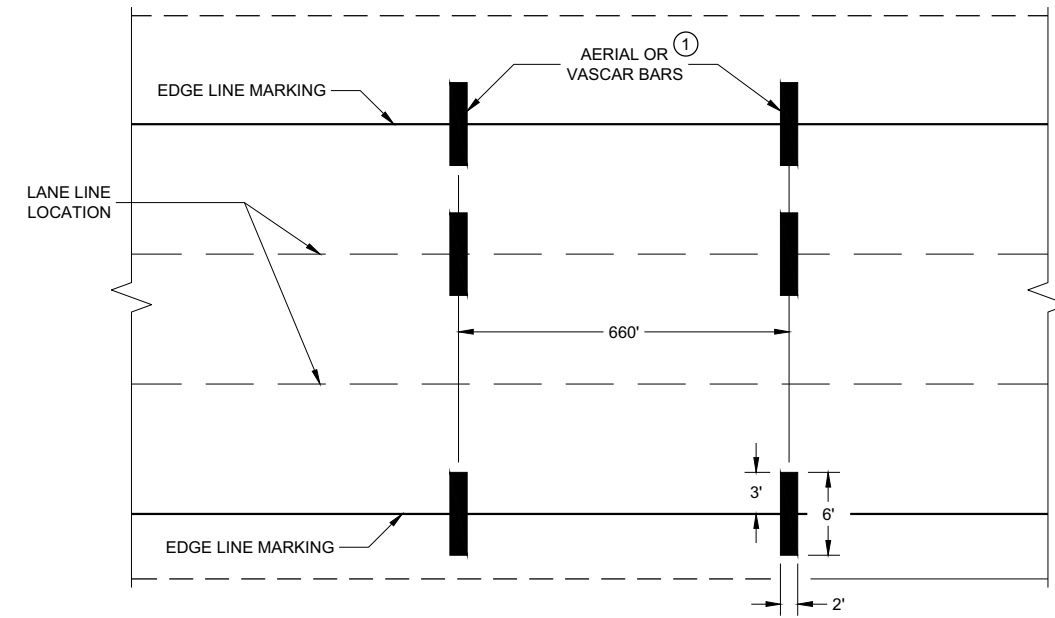
GENERAL NOTES

① PLACE TWO TO FIVE AERIAL OR VASCAR BARS AT 660 FOOT SPACING.

A CAR CAN BE PROVIDED BY THE WISCONSIN STATE PATROL FOR TRAFFIC CONTROL.



TYPICAL FOR TWO WAY OR ONE WAY TRAFFIC



TYPICAL FOR MULTILANE TRAFFIC

SPEED ENFORCEMENT ZONE WITH AERIAL OR VASCAR BARS

6

6

SDD 15C14 - 04

SDD 15C14 - 04





**AERIAL ENFORCEMENT BARS
PAVEMENT MARKING DETAILS**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MARKING
ENGINEER

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LEGEND

- V1 LEAD VEHICLE
- V2 MARKING VEHICLE
- V3 SHADOW VEHICLE
-  TRUCK MOUNTED ATTENUATOR (TMA)
-  SIGN ON TEMPORARY SUPPORT
-  DIRECTION OF TRAFFIC
-  FLASHING ARROW PANEL (CAUTION)

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

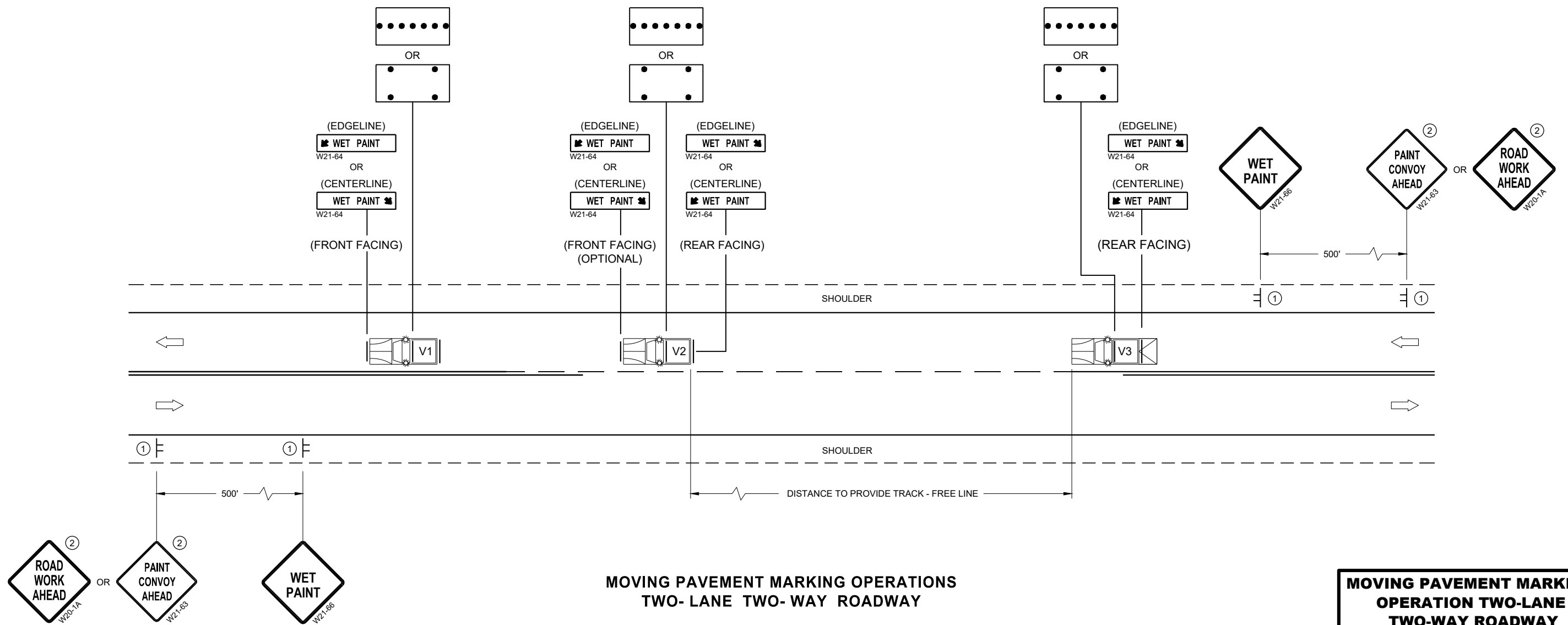
CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM OF 28" FOR WET PAVEMENT MARKING .

- ① SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.
- ② IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.

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



**MOVING PAVEMENT MARKING OPERATIONS
TWO-LANE TWO-WAY ROADWAY**

SDD 15C19 - 06a

SDD 15C19 - 06a

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2019 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	

LEGEND

- V1 LEAD VEHICLE
- V2 MARKING VEHICLE
- V3 SHADOW VEHICLE
-  TRUCK MOUNTED ATTENUATOR (TMA)
-  SIGN ON TEMPORARY SUPPORT
-  DIRECTION OF TRAFFIC
-  FLASHING ARROW PANEL (MERGE)
-  FLASHING ARROW PANEL (CAUTION)

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

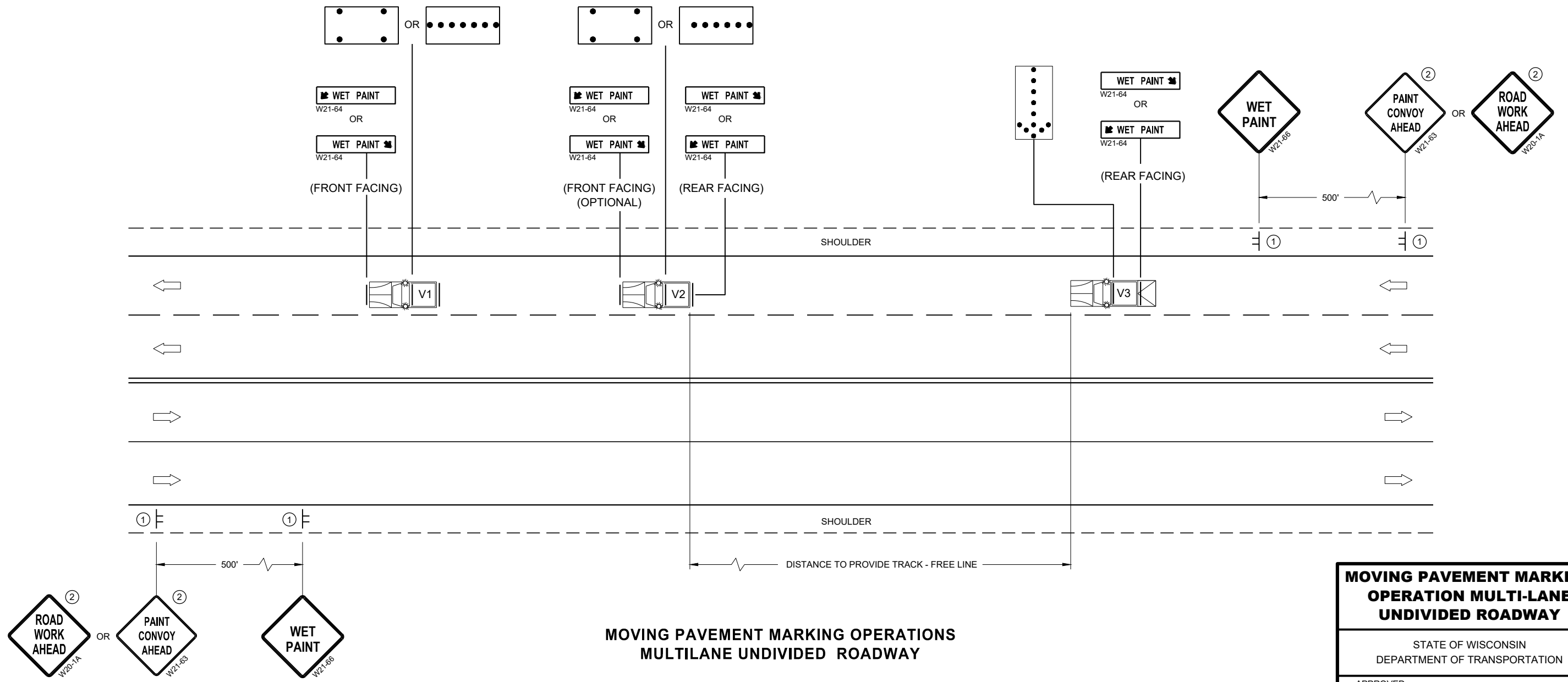
CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLES AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL HAVE A MINIMUM HEIGHT OF 28" FOR WET PAVEMENT MARKINGS.

- ① SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.
- ② IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.

6

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



**MOVING PAVEMENT MARKING OPERATIONS
MULTILANE UNDIVIDED ROADWAY**

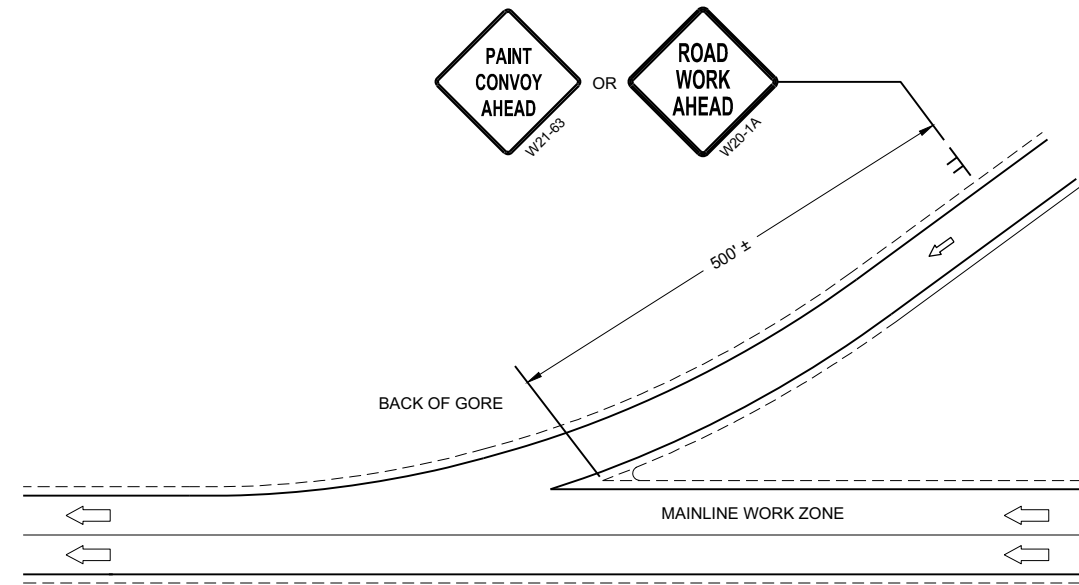
MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2019 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	

SDD 15C19 - 06b

SDD 15C19 - 06b

LEGEND

- V1 MARKING VEHICLE
- V2 SHADOW VEHICLE
- V3 TRAIL VEHICLE
-  TRUCK MOUNTED ATTENUATOR (TMA)
-  SIGN ON TEMPORARY SUPPORT
-  DIRECTION OF TRAFFIC
-  FLASHING ARROW PANEL (MERGE)
-  FLASHING ARROW PANEL (CAUTION)



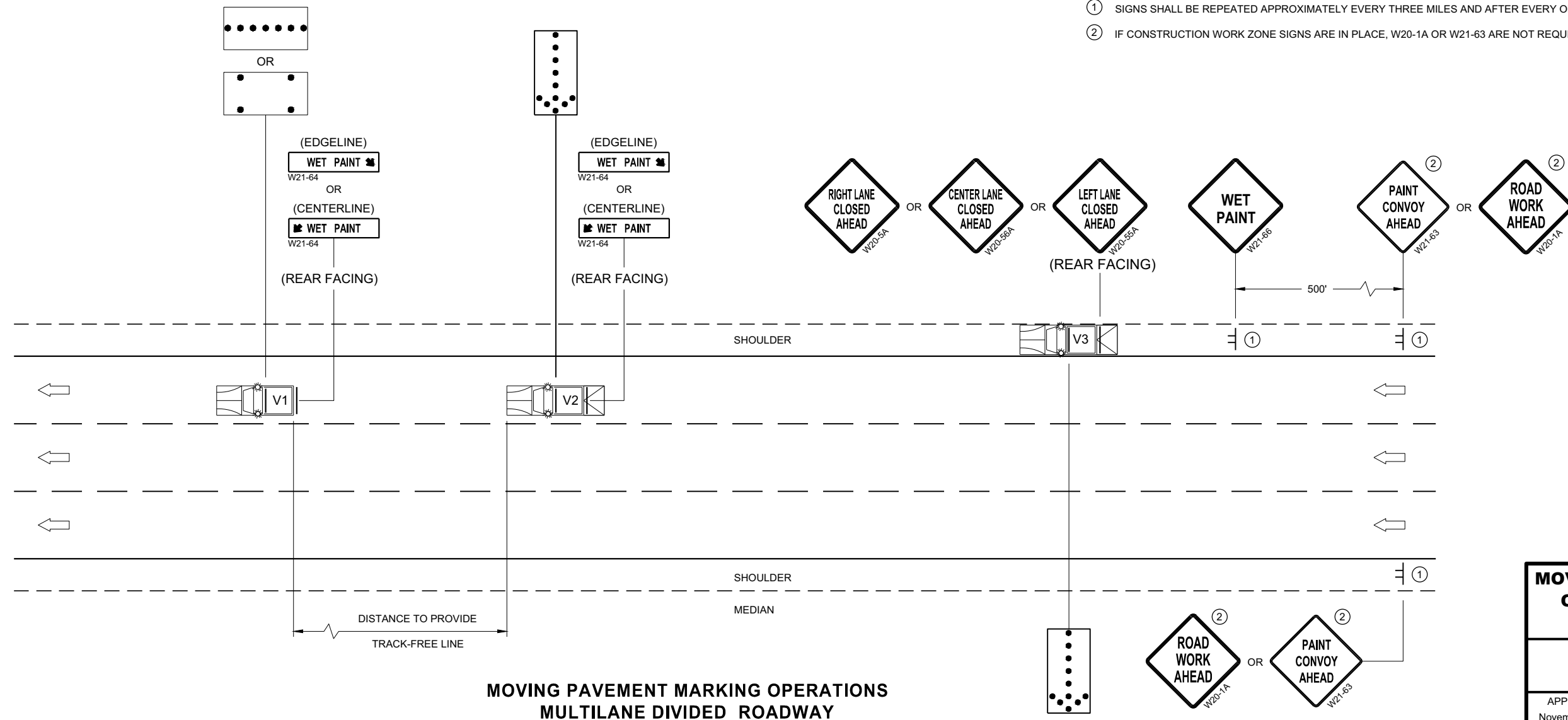
GENERAL NOTES

- ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.
- ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.
- ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.
- DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.
- WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.
- WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.
- USE AN ATTENUATOR ON THE REAR MOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.
- IF THE SHOULDER IS TOO NARROW TO ACCOMMODATE THE LAST TRAILING VEHICLE, THE VEHICLE SHOULD STRADDLE THE EDGE LINE.
- WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC
- CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.
- CONES SHALL BE A MINIMUM HEIGHT OF 18" FOR WET PAVEMENT MARKINGS

- ① SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES AND AFTER EVERY ON RAMP.
- ② IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.

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SDD 15C19 - 06C

SDD 15C19 - 06C



**MOVING PAVEMENT MARKING OPERATIONS
MULTILANE DIVIDED ROADWAY**

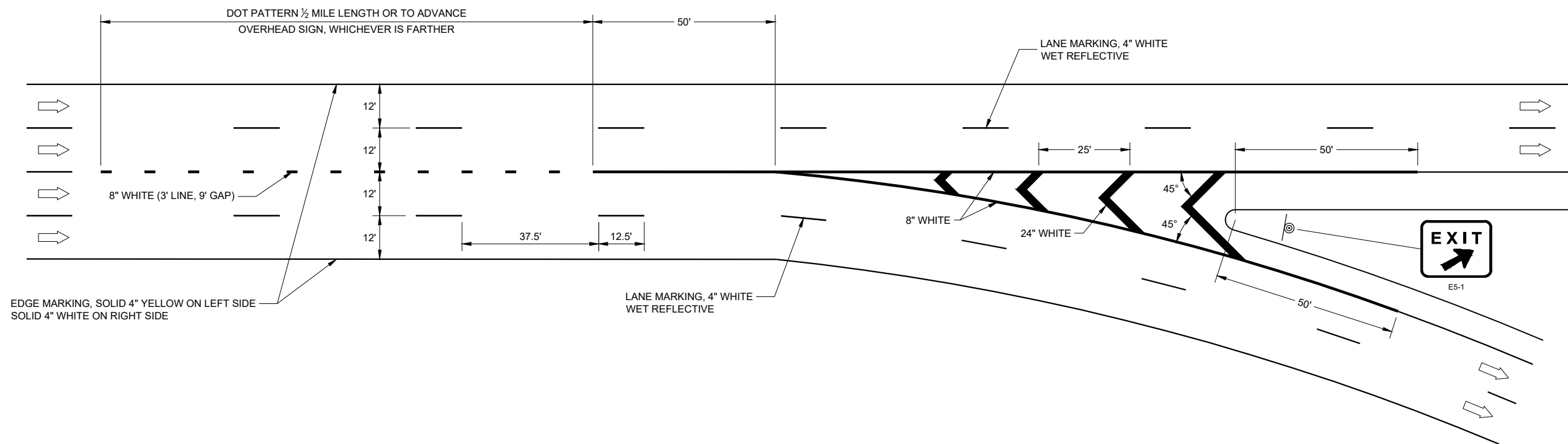
MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2019 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	

GENERAL NOTES

PLACE GROOVE 3 INCHES LEFT OF JOINT.

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  DIRECTION OF TRAVEL



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





SDD 15C31 - 04b

SDD 15C31 - 04b

**PAVEMENT MARKING,
MAJOR SPLIT
FREEWAY TO FREEWAY**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  TYPE "A" WARNING LIGHT (FLASHING)
-  REMOVING PAVEMENT MARKINGS
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLASHING ARROW BOARD
-  PORTABLE TRAFFIC SENSOR (PTS)
-  FLASHING BEACON SIGN

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS, INCLUDING FBS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

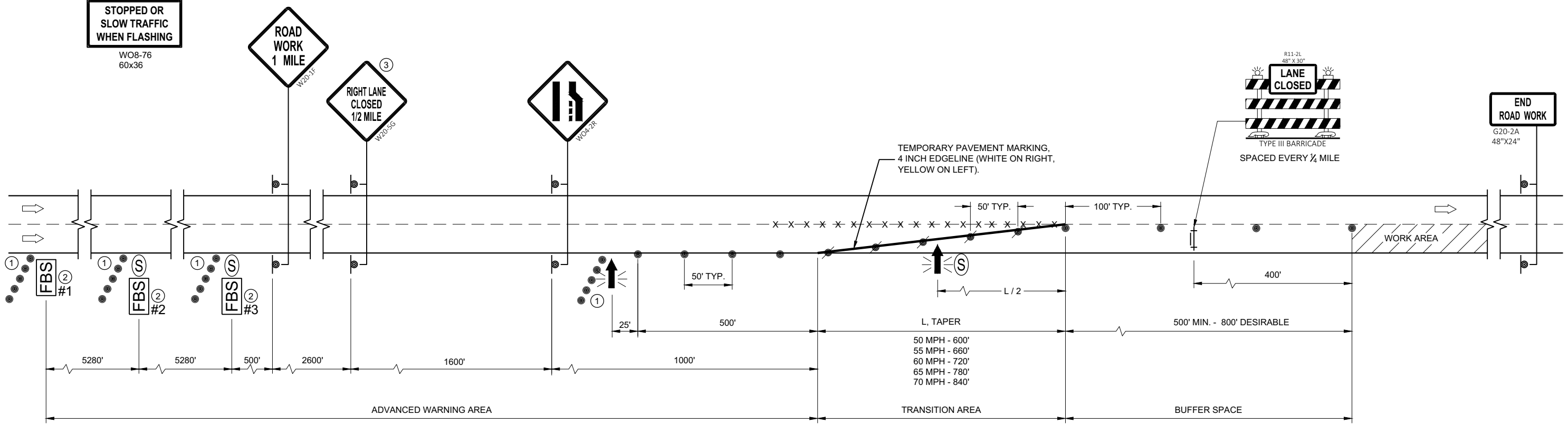
CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

PORTABLE TRAFFIC SENSOR (PTS) MAY BE MOUNTED ON THE FBS, ARROW BOARD OR OTHER TRAILER DEVICES.

- ① 5 DRUMS SPACED AT 10 FOOT INTERVALS AS NEEDED.
- ② IF THERE ARE MORE THAN TWO LANES OR IF SPECIFIED IN THE PLANS, PLACE FBS ON BOTH SIDES OF THE ROADWAY.
- ③ IF THERE IS AN APPROVED TEMPORARY SPEED DECLARATION, ADD WO-3-5 SIGNS 400 FEET AFTER THE W20-5G SIGNS AND ADD R2-1 SIGNS (48"x60") 700 FEET AFTER THE WO3-5 SIGNS. A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. PLACE A SPEED LIMIT SIGN A MINIMUM OF EVERY 3 MILES. INCLUDE A "RESUME SPEED LIMIT" SIGN 200 FEET MINIMUM (800 FEET DESIRABLE) BEYOND THE G30-3A "END ROAD WORK" SIGN.

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SDD 15D12 - 09d

SDD 15D12 - 09d

TRAFFIC CONTROL, LANE CLOSURE, BASIC TRAFFIC QUEUE WARNING SYSTEM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA

LEGEND

- † TYPE III BARRICADE
- †† TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- ⦿ SIGN ON PERMANENT SUPPORT
- ⚡ TYPE "A" WARNING LIGHT (FLASHING)
- ➔ DIRECTION OF TRAFFIC

GENERAL NOTES

THIS RAMP CLOSURE DETAIL IS TYPICAL FOR CLOSING A RIGHT SIDE EXIT RAMP. FOR A LEFT SIDE EXIT RAMP, REVERSE THE TRAFFIC CONTROL.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

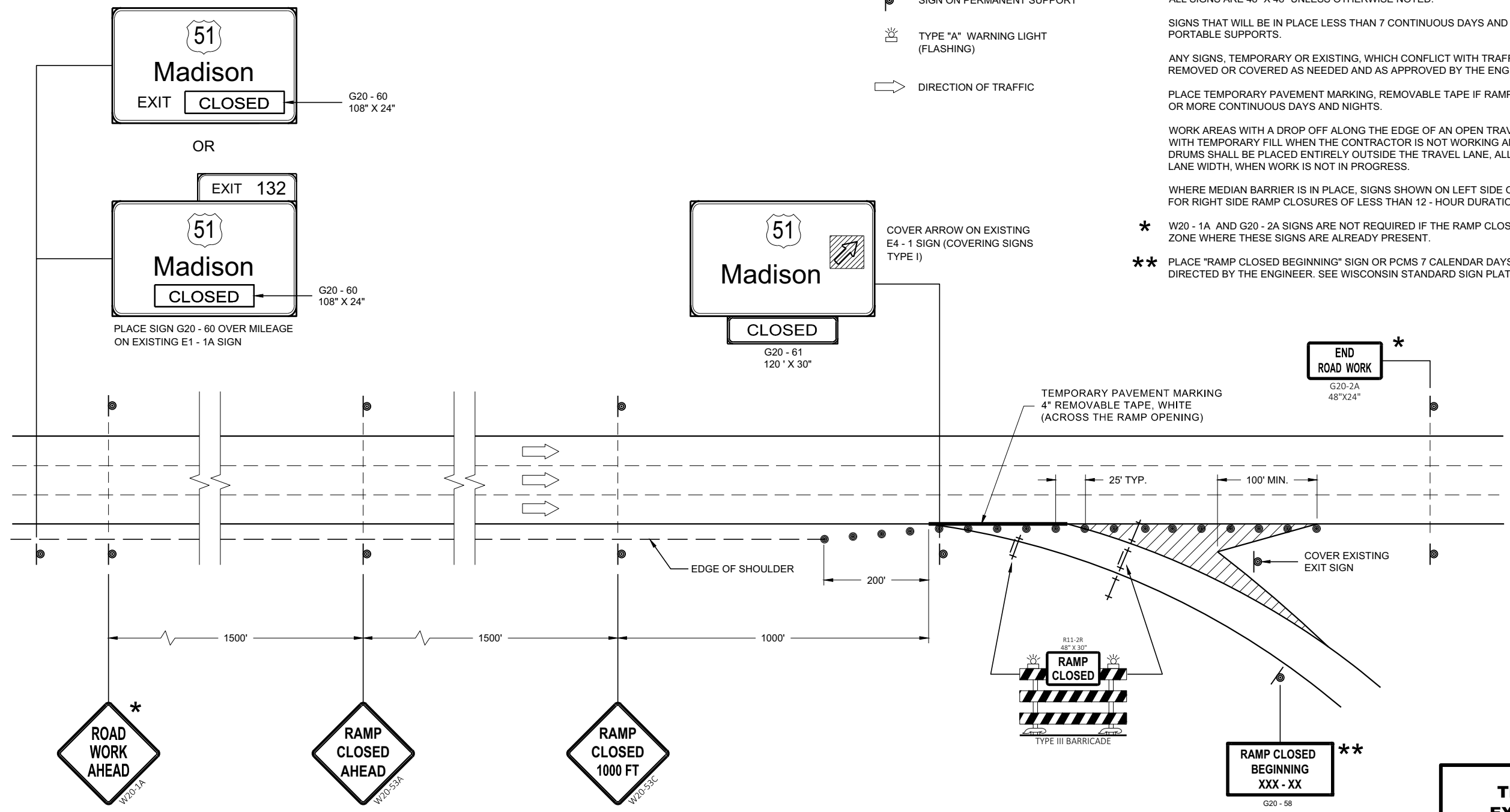
PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF RAMP CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WORK AREAS WITH A DROP OFF ALONG THE EDGE OF AN OPEN TRAVEL LANE SHALL BE LEVELED WITH TEMPORARY FILL WHEN THE CONTRACTOR IS NOT WORKING ADJACENT TO THE TRAVEL LANE. DRUMS SHALL BE PLACED ENTIRELY OUTSIDE THE TRAVEL LANE, ALLOWING THE FULL UNOBSTRUCTED LANE WIDTH, WHEN WORK IS NOT IN PROGRESS.

WHERE MEDIAN BARRIER IS IN PLACE, SIGNS SHOWN ON LEFT SIDE OF ROADWAY MAY BE OMITTED FOR RIGHT SIDE RAMP CLOSURES OF LESS THAN 12 - HOUR DURATION.

* W20 - 1A AND G20 - 2A SIGNS ARE NOT REQUIRED IF THE RAMP CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

** PLACE "RAMP CLOSED BEGINNING" SIGN OR PCMS 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR SIGN LAYOUT.



RAMP CLOSED BEGINNING **
G20 - 58
OR
PCMS MESSAGING

FRAME 1	FRAME 2
RAMP TO CLOSE	XXXDAY XX XX XX










**TRAFFIC CONTROL,
EXIT RAMP CLOSURE**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018 DATE /S/ Andrew Heidtke
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  TYPE "A" WARNING LIGHT (FLASHING)
-  FLASHING ARROW BOARD
-  DIRECTION OF TRAFFIC
-  REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
-  WORK AREA

GENERAL NOTES

FOR WORK ON ROADWAYS WITH SPEEDS GREATER THAN 45MPH, USE SDD 15D12.

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

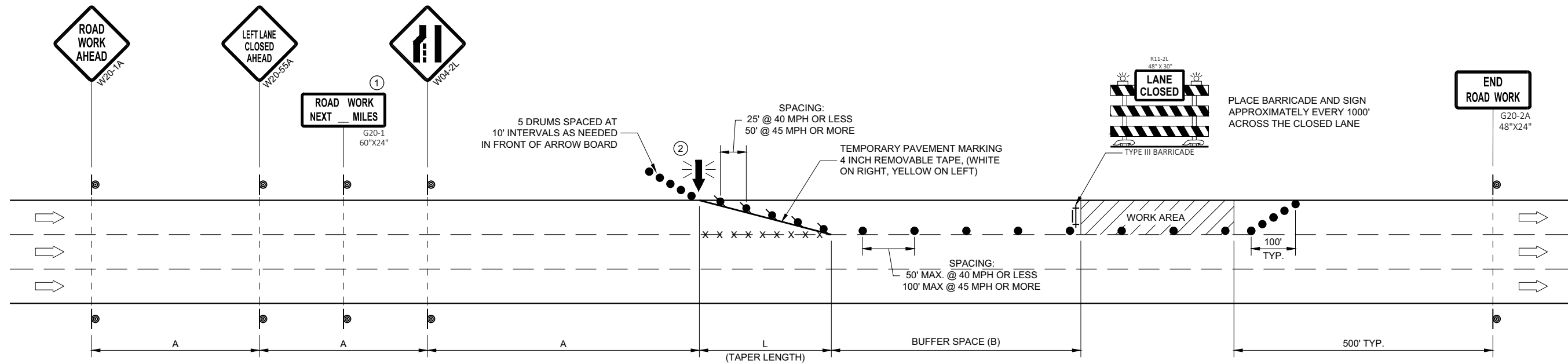
CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

- ① OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- ② WHERE THE SHOULDER OR TERRACE HAS INSUFFICIENT SPACE TO PLACE THE ARROW BOARD AS SHOWN, PLACE THE ARROW BOARD AT THE END OF THE TAPER.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'












TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020 /S/ Andrew Heidtke
DATE STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

FHWA

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  SIGN ON TEMPORARY SUPPORT
-  TRAFFIC CONTROL DRUM
-  TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
-  TYPE III BARRICADE
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  TYPE "A" WARNING LIGHT (FLASHING)
-  FLASHING ARROW BOARD
-  DIRECTION OF TRAFFIC
-  REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
-  WORK AREA

GENERAL NOTES

FOR WORK ON ROADWAYS WITH SPEEDS GREATER THAN 45 MPH, USE SDD 15D14.

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE RIGHT TWO LANES. FOR CLOSING LEFT TWO LANES, REVERSE THE TRAFFIC CONTROL.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

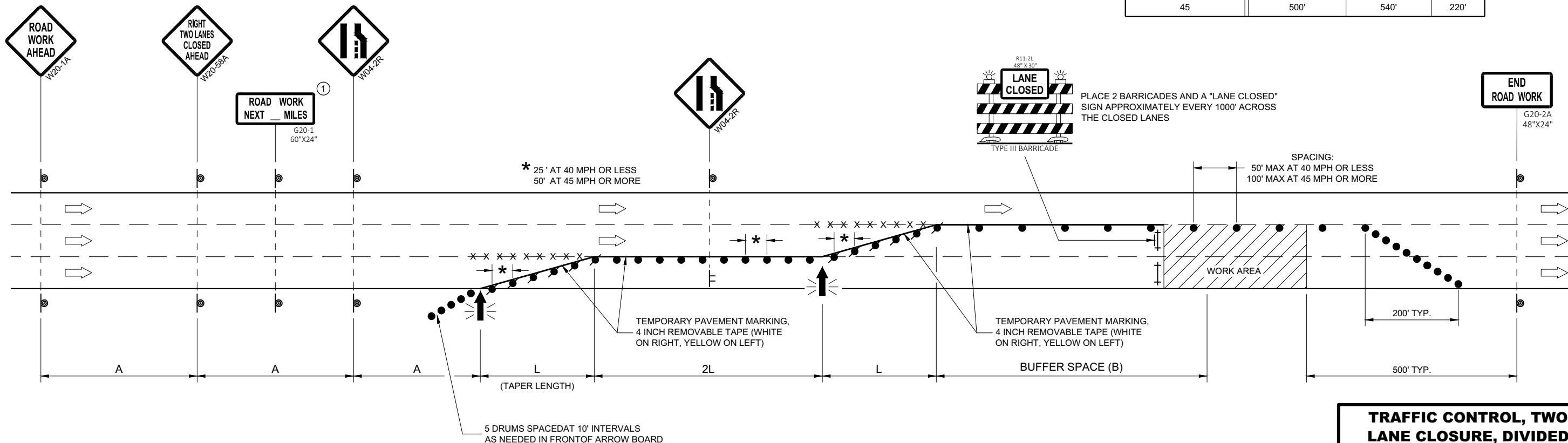
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

① OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
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

TRAFFIC CONTROL, TWO LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020 /S/ Andrew Heidtke
DATE STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

FHWA

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES

ALL SIGNS ARE 48"X48" BLACK ON ORANGE UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

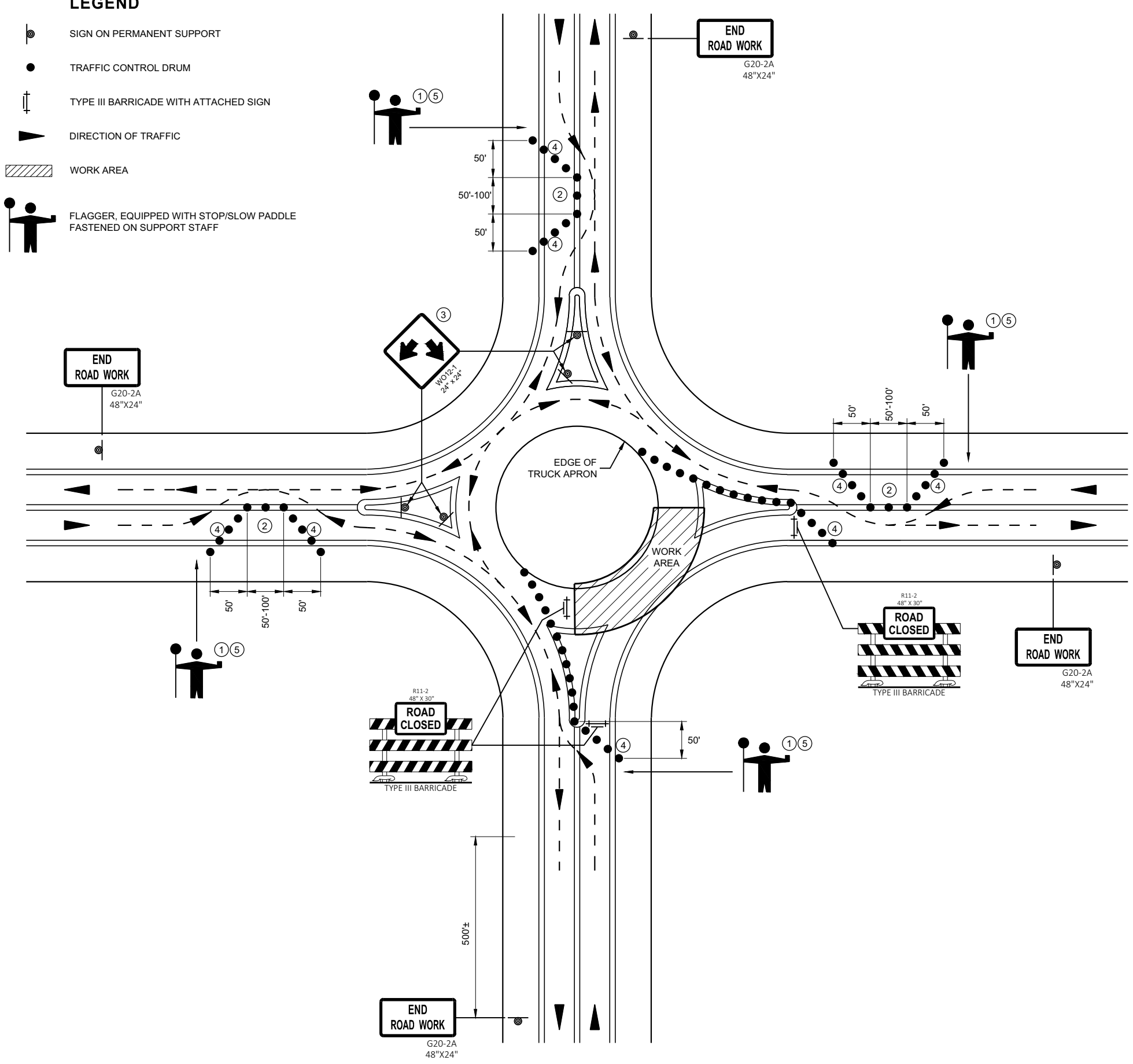
THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ONLY ONE QUADRANT OF TRAFFIC SHALL BE RELEASED AT A TIME.

FLAGGERS SHALL CONTROL TRAFFIC ON ALL APPROACHES OF THE ONE-LANE ROUNDABOUT. ONE FLAGGER SHALL BE DESIGNATED LEAD FLAGGER.

NIGHT TIME WORK REQUIRES ADDITIONAL LIGHTING AT FLAGGER STATION(S).

- ① FLAGGERS SHALL BE IN DIRECT RADIO CONTACT AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.
- ② ADJUST CHANNELIZING DEVICES TO ACCOMMODATE FOR TURNING RADIUS OF LARGE VEHICLES AS DIRECTED BY THE ENGINEER.
- ③ GUIDE SIGN WITH ROAD NAMES MAY BE USED IN LIEU OF THE DOUBLE ARROW (WO12-1) SIGN.
- ④ THE TWO-WAY TAPER SHOULD BE 50 FEET USING 5 EQUALLY SPACED DRUMS.
- ⑤ FOLLOW SDD 15C12 FOR FLAGGING AND ADVANCE WARNING.



RECOMMENDED REDUCED DRUM SPACING WITHIN ROUNDABOUT

MPH	DRUM SPACING (FT)
0-40	25
45-55	50

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SDD 15D37 - 03

SDD 15D37 - 03

TRAFFIC CONTROL, FLAGGING OPERATION, ROUNDABOUT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020 DATE /S/ Andrew Heidtke
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

FHWA

Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

<http://www.dot.wisconsin.gov>