

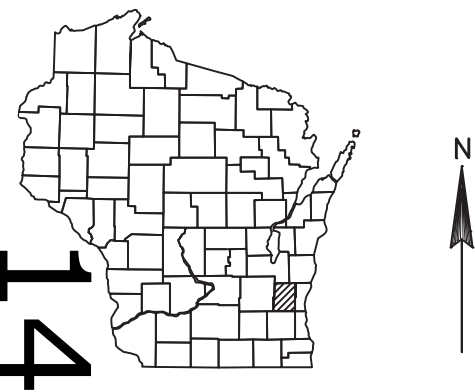
WKE
PROJECT ID: 2300-01-72
WITH:
COUNTY: WASHINGTON

DEC 2015

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 = 12



DESIGN DESIGNATION

A.A.D.T.	2016	=	4300
A.A.D.T.	2036	=	5100
D.H.V.	2036	=	513
D.D.		=	59/41
T.		=	8.1%
DESIGN SPEED		=	45 MPH
ESALS		=	

CONVENTIONAL SYMBOLS	
PLAN	PROFILE
CORPORATE LIMITS	GRADE LINE
PROPERTY LINE	ORIGINAL GROUND
LOT LINE	MARSH OR ROCK PROFILE (To be noted as such)
LIMITED HIGHWAY EASEMENT	SPECIAL DITCH
EXISTING RIGHT OF WAY	GRADE ELEVATION
PROPOSED OR NEW R/W LINE	CULVERT (Profile View)
SLOPE INTERCEPT	UTILITIES
REFERENCE LINE	ELECTRIC
EXISTING CULVERT	FIBER OPTIC
PROPOSED CULVERT (Box or Pipe)	GAS
COMBUSTIBLE FLUIDS	SANITARY SEWER
	STORM SEWER
	TELEPHONE
MARSH AREA	WATER
	UTILITY PEDESTAL
	POWER POLE
WOODED OR SHRUB AREA	TELEPHONE POLE

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STH 167

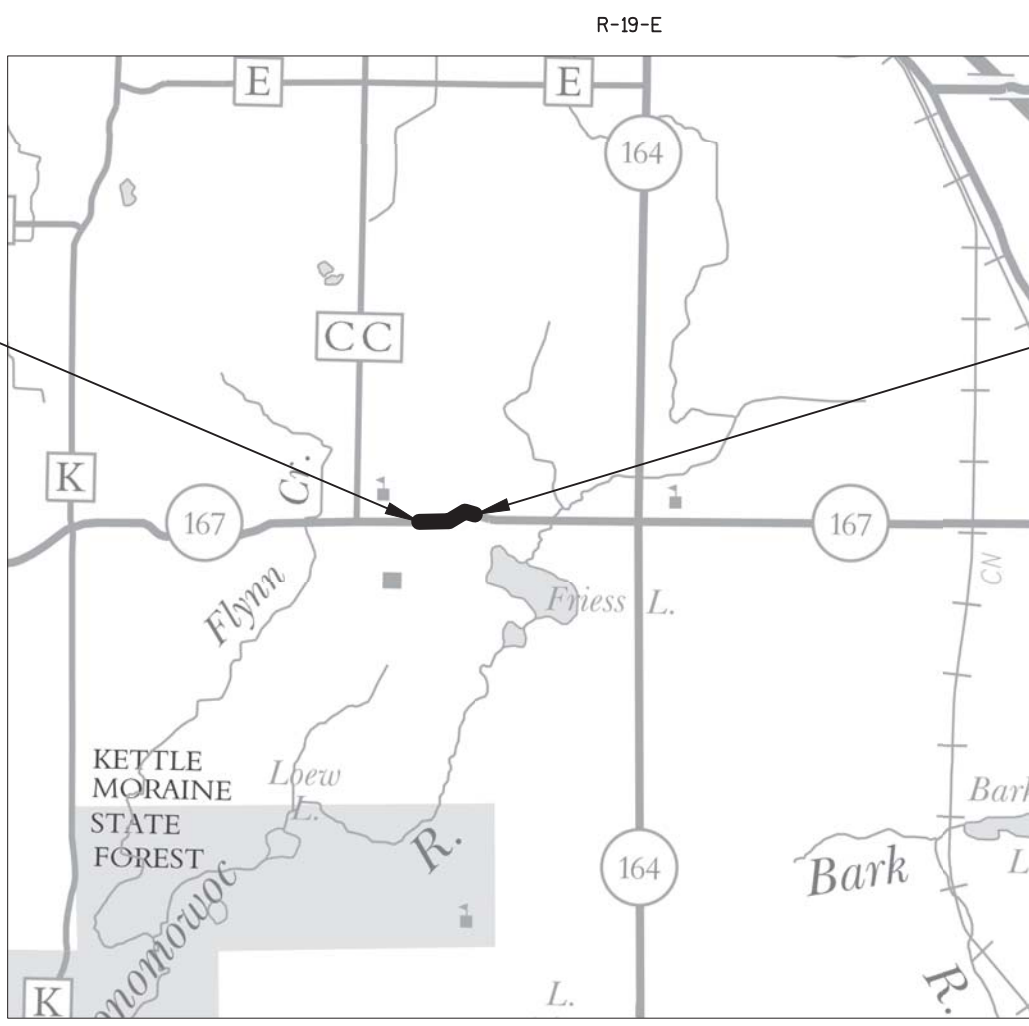
FRIESS LAKE RD - 0.55 MILES EAST OF FRIESS LAKE

STH 167

WASHINGTON COUNTY

STATE PROJECT NUMBER
2300-01-72

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
2300-01-72	WISC 2015642	1



LAYOUT

SCALE 0 2 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.228

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, WASHINGTON COUNTY, NAD83 (2007), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 NAVD88 (2007)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
PREPARED BY	
Surveyor	WISDOT
Designer	JACOB ROSBECK
Project Manager	TRACI GENGLER
Regional Examiner	
Regional Supervisor	BENEDICT ERUCHALU
C.O. Examiner	
APPROVED FOR THE DEPARTMENT	
DATE: 7/30/15	
	(Signature)

GENERAL NOTES

TRAFFIC CONTROL LOCATIONS AS SHOWN IN THE PLAN ARE SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE CONTRACTOR WILL MAINTAIN ACCESS TO ALL DRIVEWAYS BUSINESSES AT ALL TIMES.

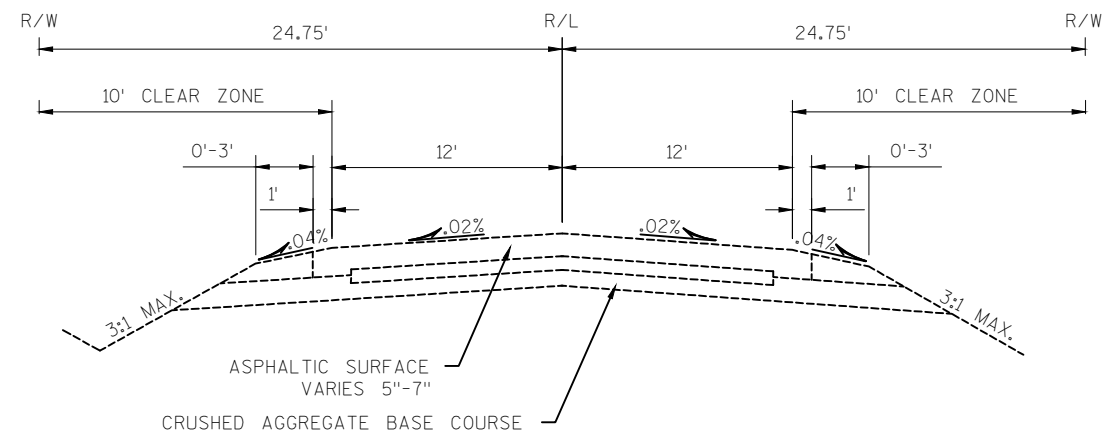
WI DNR LIAISON
KRISTINA BETZOLD
2300 N. MARTIN LUTHER KING DRIVE
MILWAUKEE, WI 53212
PHONE: (414) 263-8517
FAX: (414) 263-8483

WISDOT PROJECT MANAGER
TRACI GENGLER
141 NW BARSTOW STREET
P.O. BOX 798
WAUKESHA, WI 53187-0798
(262) 548-8727

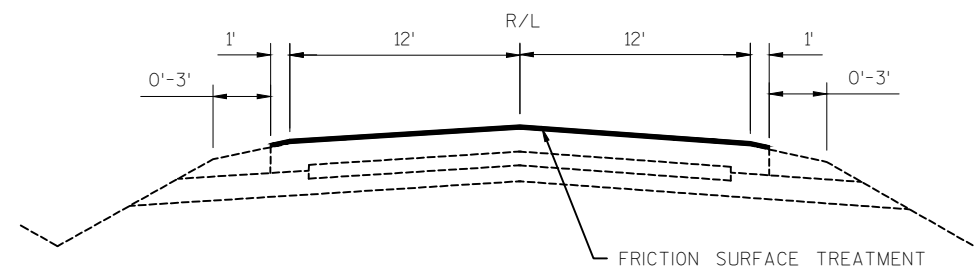
WASHINGTON COUNTY HIGHWAY
TOM WONDRA
900 LANG STREET
WEST BEND, WI 53090
(262) 335-4435

VILLAGE OF RICHFIELD
MIKE GAUTHIER
4128 HUBERTUS ROAD
HUBERTUS, WI 53033
(262) 628-2260

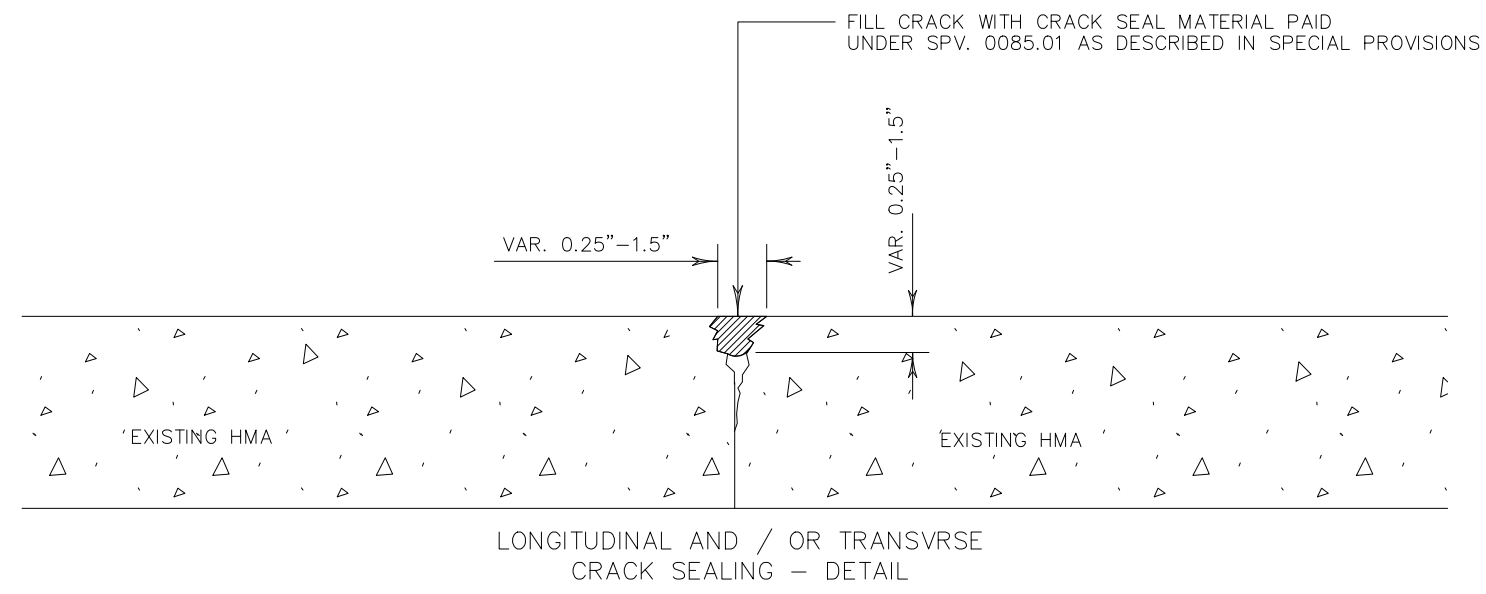




EXISTING TYPICAL SECTION
STH 167
STA. 424+00 - STA. 436+00



FINISHED TYPICAL SECTION
STH 167
STA. 424+00 - STA. 436+00



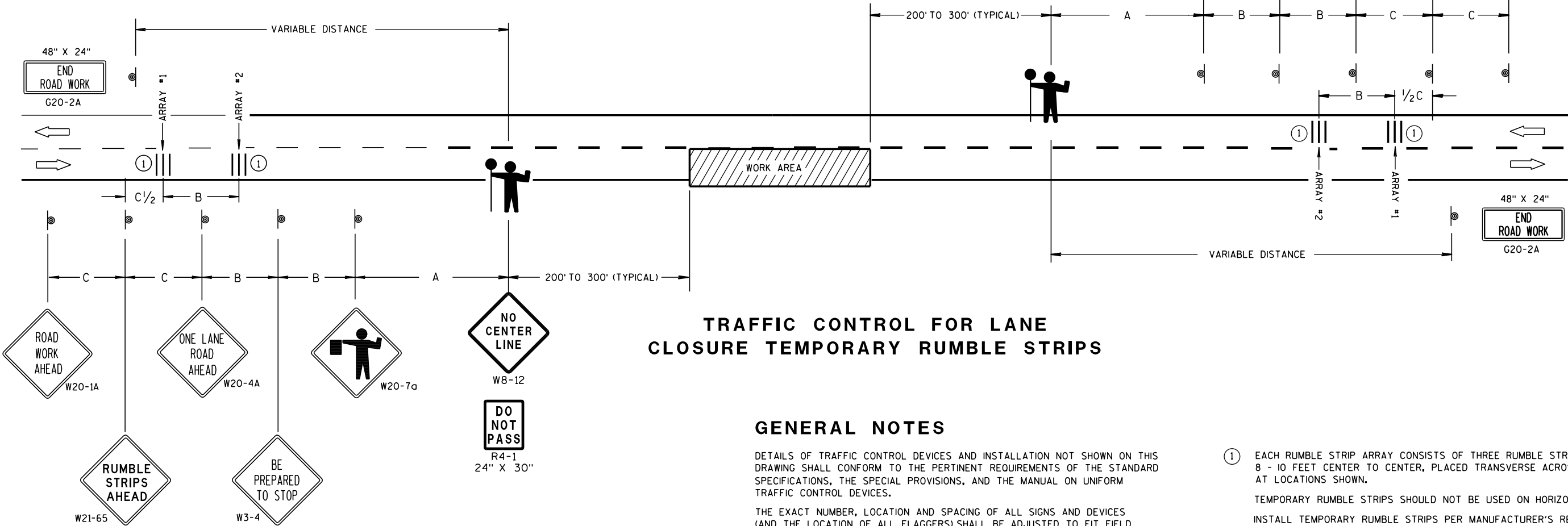
LEGEND

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

SPEED LIMIT (MPH)	ADT	SIGN SPACING A,B,C	TAPER LENGTH (FT)	BUFFER ZONE (FT)	DEVICE SPACING (FT)	WORK ZONE LENGTH
35 OR LESS	LESS THAN 2,500	200'	50'	200'	40'	2.5 MI.
	2,500 - 5,000	200'	50'	200'	40'	2.0 MI.
	GREATER THAN 5,000	200'	50'	200'	40'	1.5 MI.
40-45	LESS THAN 2,500	350'	100'	200'	80'	2.5 MI.
	2,500 - 5,000	350'	100'	200'	80'	2.0 MI.
	GREATER THAN 5,000	700'	100'	300'	80'	1.5 MI.
50 OR GREATER	LESS THAN 2,500	500'	100'	300'	100'	2.5 MI.
	2,500 - 5,000	500'	100'	300'	100'	2.0 MI.
	GREATER THAN 5,000	1000'	100'	300'	100'	1.5 MI.



USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



TRAFFIC CONTROL FOR LANE CLOSURE TEMPORARY RUMBLE STRIPS

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.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE 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.

① EACH RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED 8 - 10 FEET CENTER TO CENTER, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

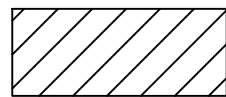
TEMPORARY RUMBLE STRIPS SHOULD NOT BE USED ON HORIZONTAL CURVES.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

IF TRAFFIC IS OBSERVED TO BE QUEUEING OR IS EXPECTED TO QUEUE BEYOND "RUMBLE ARRAY #1" THE W21-65 SIGN AND RUMBLE STRIP ARRAY #1 MAY BE RELOCATED UPSTREAM OF THE W20-1 SIGN AS NECESSARY TO PROVIDE NEEDED WARNING.

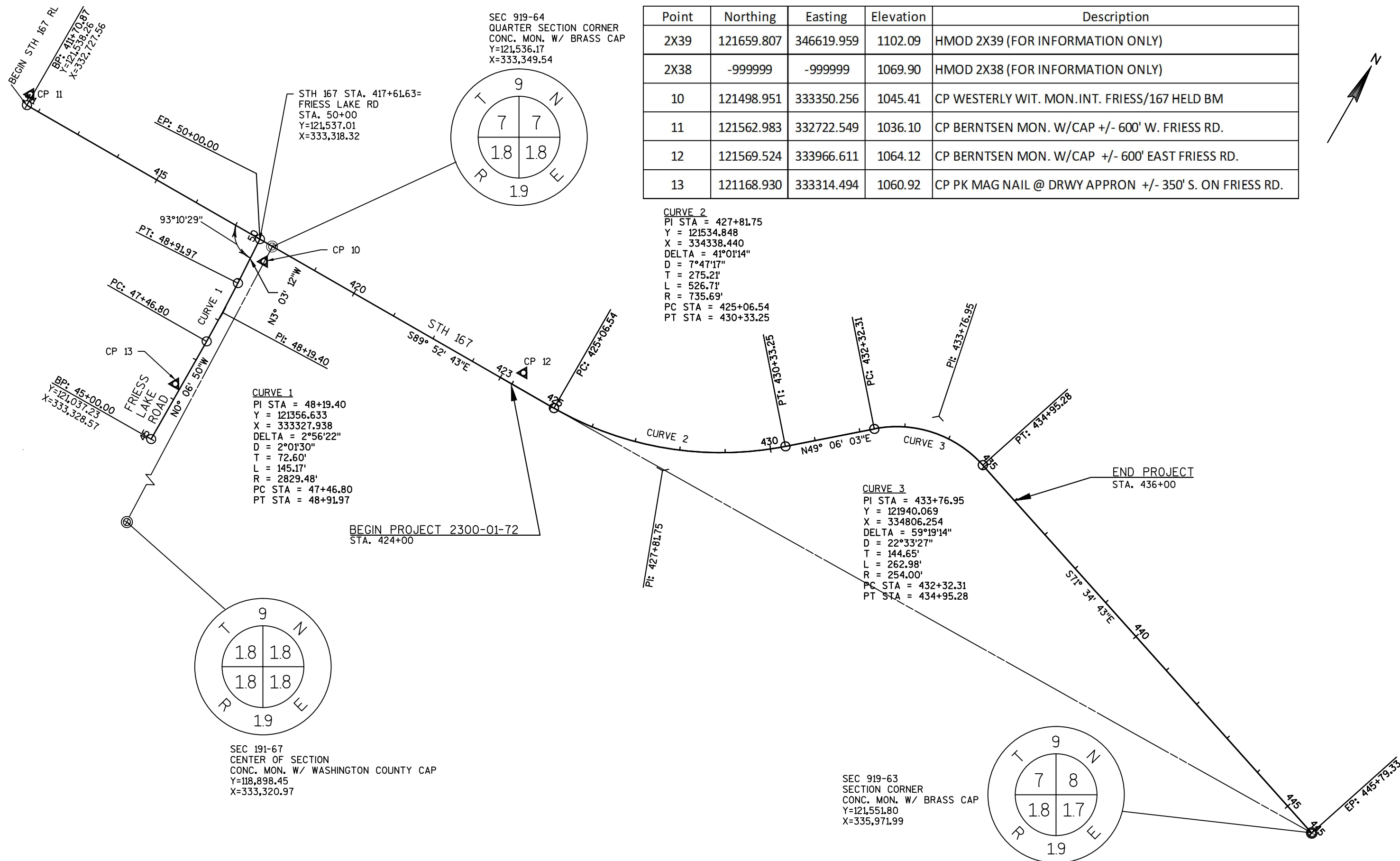
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

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 RUMBLE STRIPS AND COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.



FRICTION SURFACE TREATMENT





DATE 28SEP15		E S T I M A T E O F Q U A N T I T I E S			
LINE					2300-01-72
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	619.1000	Mobilization	EACH	1.000	1.000
0020	628.1104	Erosion Bales	EACH	10.000	10.000
0030	628.1905	Mobilizations Erosion Control	EACH	1.000	1.000
0040	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000
0050	628.7570	Rock Bags	EACH	10.000	10.000
0060	643.0100	Traffic Control (project) 01. 2300-01-72	EACH	1.000	1.000
0070	643.0300	Traffic Control Drums	DAY	170.000	170.000
0080	643.0900	Traffic Control Signs	DAY	115.000	115.000
0090	646.0106	Pavement Marking Epoxy 4-Inch	LF	2,400.000	2,400.000
0100	646.0406	Pavement Marking Same Day Epoxy 4-Inch	LF	2,400.000	2,400.000
0110	646.0600	Removing Pavement Markings	LF	4,800.000	4,800.000
0120	SPV.0060	Special 01. Temporary Portable Rumble Strips	EACH	4.000	4.000
0130	SPV.0085	Special 01. - Crack Sealing	LB	1,100.000	1,100.000
0140	SPV.0180	Special 01. - Resin Binder High Friction Surface Treatment	SY	3,900.000	3,900.000

	628.1104	628.7570
	EROSION BALES	ROCK BAGS
LOCATION	EACH	EACH
UNDISTRIBUTED	10	10

	TRAFFIC CONTROL	
	643.0300	643.0900
	DRUMS	SIGNS
LOCATION	DAY	DAY
STH 167	170	115

	646.0600
	REMOVING PAVEMENT MARKING
LOCATION	LF
STH 167	4800

	646.0406
	PAVEMENT MARKING SAME DAY EPOXY 4-INCH YELLOW
LOCATION	LF
STH 167	2400

	646.0106
	PAVEMENT MARKING EPOXY 4-INCH WHITE
LOCATION	LF
STH 167	2400

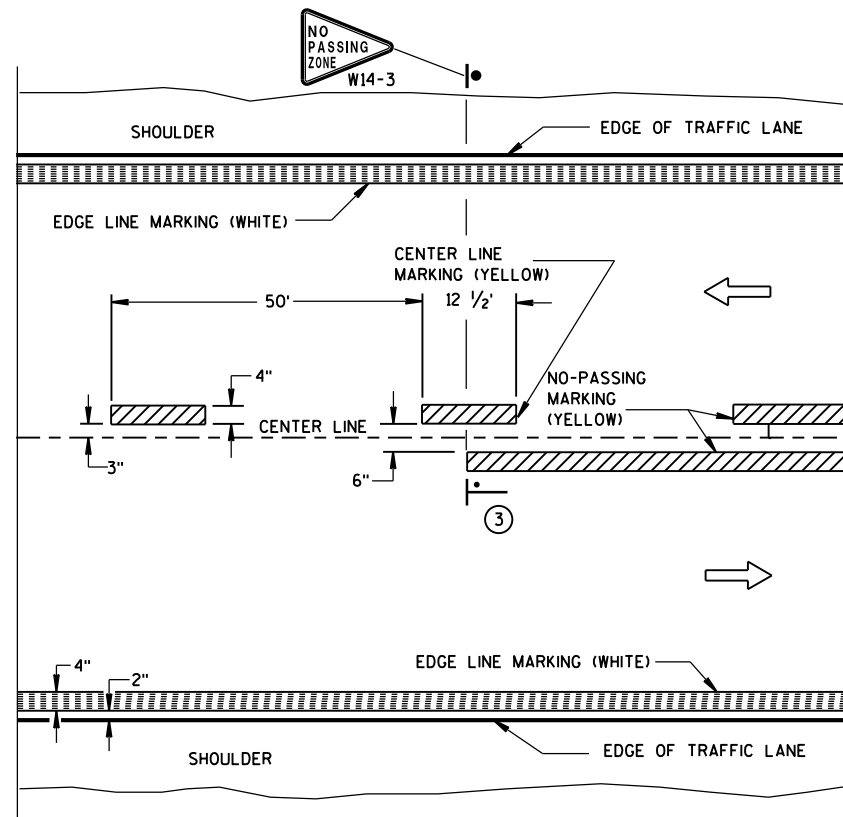
	SPV.0085.01
	CRACK SEALING
LOCATION	LB
STH 167	1100

	SPV.0060.01
	TEMPORARY PORTABLE RUMBLE STRIPS
LOCATION	EACH
STH 167	4

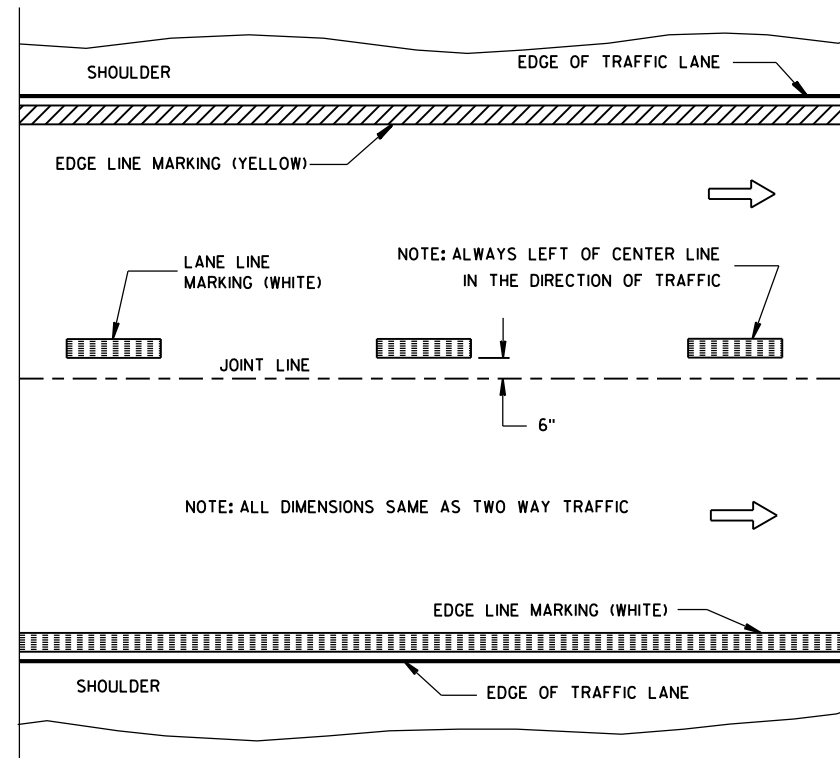
	SPV.0180.01
	RESIN BINDER HIGH FRICTION SURFACE TREATMENT
LOCATION	SY
STH 167	3900

Standard Detail Drawing List

15C08-16A PAVEMENT MARKING (MAINLINE)

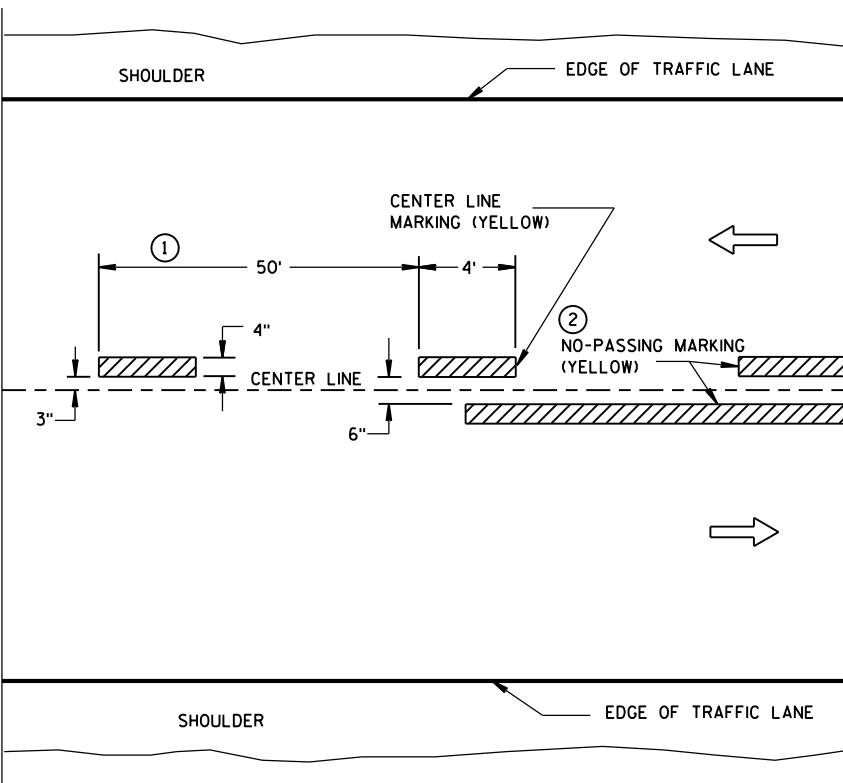


TWO WAY TRAFFIC

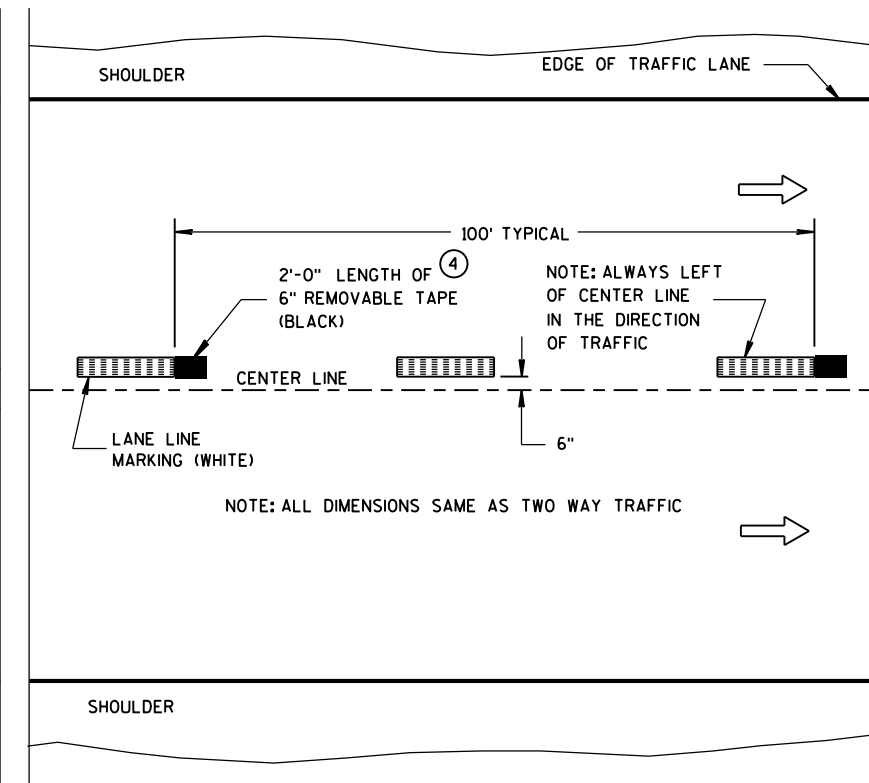


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING
(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

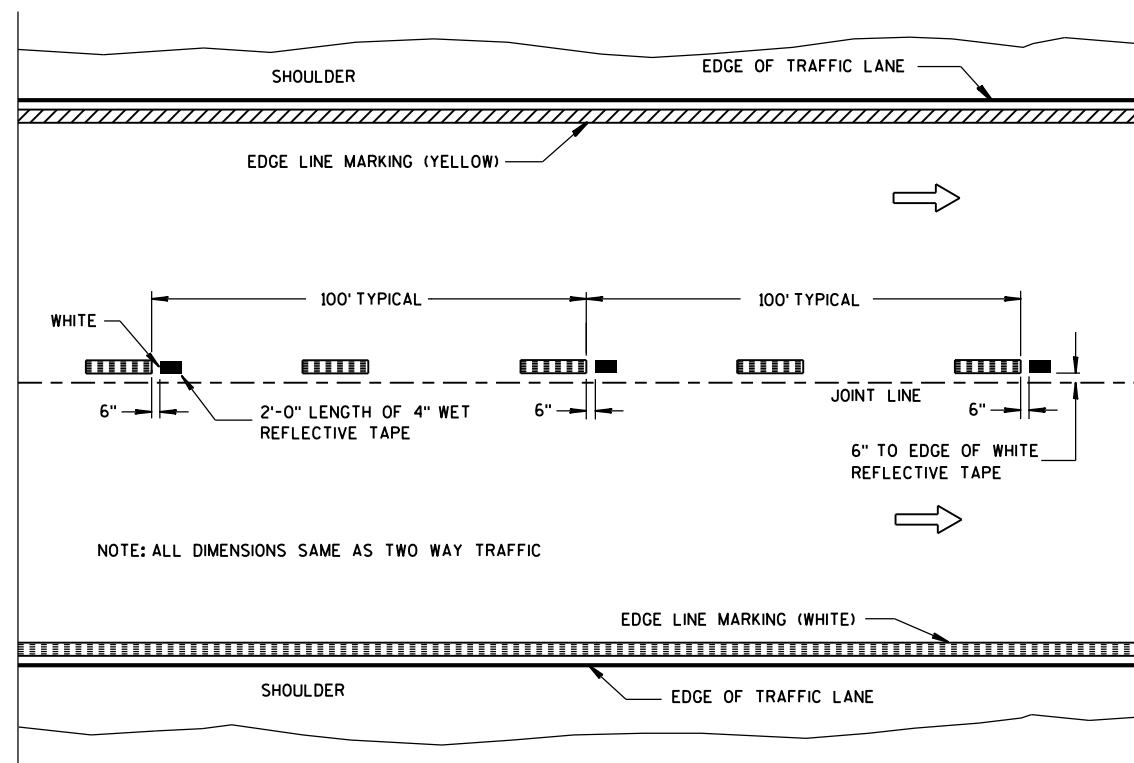
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

- ① HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
- ② NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
- ③ NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
- ④ CONCRETE ONLY.

NOTE

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

LEGEND

- "T" MARKING
- POST MOUNTED SIGN

PAVEMENT MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5-13-2013
DATE
FHWA

/S/ Travis Feltes
STATE TRAFFIC ENGINEER



Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

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