RHI

MARCH 2019

PROJECT ID: 9180-23-71/9180-23-72

WITH: N/A

COUNTY: SHAWANO

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details (INCL. EROSION CONTROL)
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 = 364

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
9180-23-71	WISC 2019179	1
9180-23-72	WISC 2019180	1

C SHAWANO, S MAIN & E GREEN BAY STR

CTH B - ZINGLER & CTH HHH - CTH BE

STH 22

SHAWANO COUNTY

STATE PROJECT NUMBER
9180-23-71

C SHAWANO, GREEN BAY STREET

MAIN STREET TO CTH HHH

STH 22

SHAWANO COUNTY

STATE PROJECT NUMBER
9180-23-72

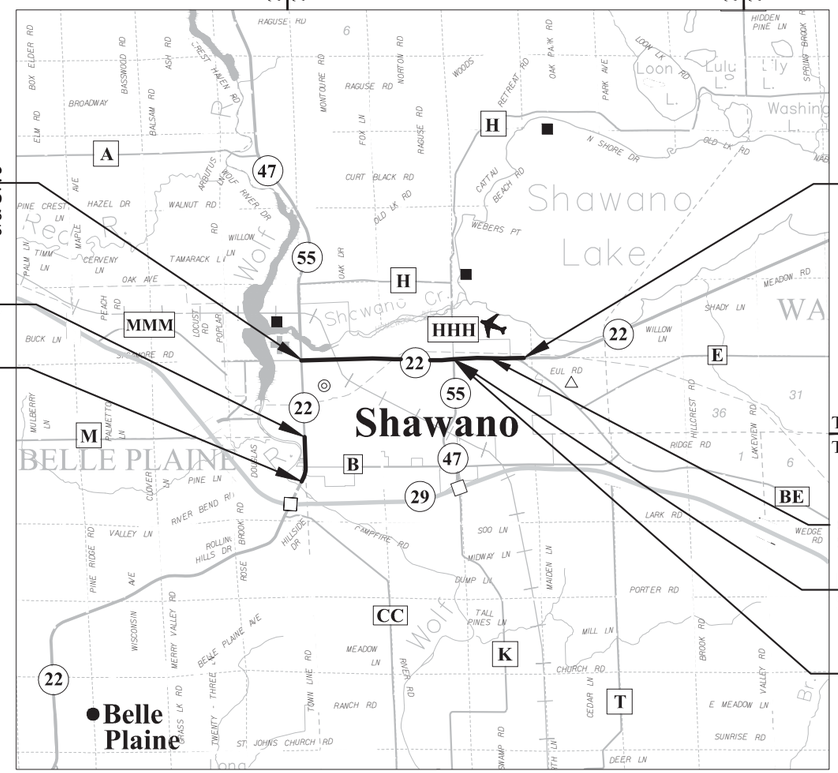


52

N

DESIGN DESIGNATION

A.A.D.T.	2019	=	7,500 - 12,900
A.A.D.T.	2039	=	9,900 - 16,100
D.H.V.		=	1,130 - 1,840
D.D.		=	59/41
T.		=	5.5%
DESIGN SPEED		=	25 MPH - 45 MPH
ESALS		=	N/A



LAYOUT
SCALE 0 2 MILES

LENGTH OF CENTERLINE PROJECT ID 9180-23-71 = 1.365 MI
LENGTH OF CENTERLINE PROJECT ID 9180-23-72 = 2.171 MI
TOTAL NET LENGTH OF CENTERLINE = 3.536 MI

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), SHAWANO COUNTY NAD 83, (2011) ADJUSTMENT.

ALL ELEVATIONS ON THIS PROJECT ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88), (2012) ADJUSTMENT.

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 (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE
- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES
- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

emcs inc
500 North 17th Avenue
Wausau, WI 54401
715.845.1081 Fax 715.845.1099

WISCONSIN STEPHANIE G. CHRISTENSEN E-35608 WAUSAU, WI PROFESSIONAL ENGINEER

8/29/18 (Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	EMCS, INC.
Designer	EMCS, INC.
Project Manager	DANIEL ERVA
Regional Examiner	CHERYL SIMON
Regional Supervisor	JED PETERS

APPROVED FOR THE DEPARTMENT

DATE: 8/30/18 (Signature)

E

GENERAL NOTES

NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

STH 22, STH 47, STH 55, AND BUSINESS 29 RUN CONCURRENTLY BETWEEN MAIN STREET AND CTH HHH. FOR THE PURPOSES OF THIS PLAN, STH 22/STH 47/STH 55/BUSINESS 29 WILL BE REFERRED TO AS STH 22.

AS-BUILTS USED FOR PLAN DEVELOPMENT

PROJECT NO: NRH345B, CONSTRUCTION YEAR: 1935
PROJECT NO: UO9-1(11), CONSTRUCTION YEAR: 1948
PROJECT NO: F09-1(6), CONSTRUCTION YEAR: 1953
PROJECT NO: F3561(5), CONSTRUCTION YEAR: 1953
PROJECT NO: F3561(4), CONSTRUCTION YEAR: 1954
PROJECT NO: T3561(1), CONSTRUCTION YEAR: 1954
PROJECT NO: 6997-5-02, CONSTRUCTION YEAR: 1972
PROJECT NO: 1059-3-71, CONSTRUCTION YEAR: 1977
PROJECT NO: 6997-5-05, CONSTRUCTION YEAR: 1977
PROJECT NO: 1059-2-71, CONSTRUCTION YEAR: 1979
PROJECT NO: 1059-13-71, CONSTRUCTION YEAR: 1991
PROJECT NO: 6251-07-71, CONSTRUCTION YEAR: 1995
PROJECT NO: 6251-04-71, CONSTRUCTION YEAR: 1996
PROJECT NO: 6251-07-72, CONSTRUCTION YEAR: 1999
PROJECT NO: 9180-12-71, CONSTRUCTION YEAR: 1999
PROJECT NO: 9180-14-71, CONSTRUCTION YEAR: 2000
PORJECT NO: 9180-17-70, CONSTRUCTION YEAR: 2013

ORDER OF SECTION 2 SHEETS

PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PAVING DETAILS
EROSION CONTROL
PERMANENT SIGNING & MARKING
TRAFFIC CONTROL STAGING
TRAFFIC CONTROL DETOUR

UTILITIES

COMMUNICATIONS

CHARTER COMMUNICATIONS
RUDI RUDIGER
5024 HEFFRON ST
STEVENS POINT, WI 54481
PHONE: (715) 204-5339
RUDI.RUDIGER@CHARTER.COM

FRONTIER COMMUNICATIONS OF WISCONSIN LLC
JAMES A JASKOLSKI
26 W 12TH ST
CLINTONVILLE, WI 54929
PHONE: (715) 823-1227
JAMES.JASKOLSKI@FTR.COM

NET LEC LLC
DENNIS LAFAVE
1700 INDUSTRIAL DR
GREEN BAY, WI 54302
MOBILE: (920) 619-9774
DLAFAVE@MI-TECH.US

NSIGHT TELESERVICES
RANDY HEIMKE
5475 GLENDALE AVE
GREEN BAY, WI 54313
PHONE: (920) 865-3162
MOBILE: (920) 373-2277
RANDY.HEIMKE@NSIGHT.COM

SHAWANO MUNICIPAL UTILITIES
ROBERT KOEPP
122 N SAWYER ST
P.O. BOX 436
SHAWANO, WI 54166
PHONE: (715) 701-8983
MOBILE: (715) 853-9314
RKOEPP@CITYOFSHAWANO.COM

WINDSTREAM NTI
DENNIS RUESS
1858 WRIGHT ST
MADISON, WI 53704
PHONE: (608) 512-5587
DENNIS.RUESS@WINDSTREAM.COM

ELECTRIC

SHAWANO MUNICIPAL UTILITIES
ROBERT KOEPP
122 N SAWYER ST
P.O. BOX 436
SHAWANO, WI 54166
PHONE: (715) 701-8983
MOBILE: (715) 853-9314
RKOEPP@CITYOFSHAWANO.COM

WE ENERGIES
ZACH DUGA
800 S LYNNDALE DR
APPLETON, WI 54914
PHONE: (920) 380-3458
MOBILE: (920) 450-9314
ZACHARY.DUGA@WE-ENERGIES.COM

GAS

SEND ALL WE ENERGIES CORRESPONDENCE TO:
NICOLE SMULLEN
333 W EVERETT ST
A299
MILWUAKEE, WI 53203
(414) 221-5617
NICOLE.SMULLEN@WECENERGYGROUP.COM

CONSTRUCTION FIELD CONTACT:
WE ENERGIES
HEATHER DEUTH
800 S LYNNDALE DR
APPLETON, WI 54915
PHONE: (920) 242-5633
HEATHER.DEUTH@DAARCORP.COM

SEWER

CITY OF SHAWANO
SCOTT KROENING
2905 E RICHMOND ST
SHAWANO, WI 54166
PHONE: (715) 526-3512
MOBILE: (715) 853-6238
SKROENING@CITYOFSHAWANO.COM

SHAWANO LAKE SANITARY DISTRICT
RON BYSTOL
P.O. BOX452
SHAWANO, WI 54166
PHONE: (715) 524-2176
MOBILE: (715) 853-2676
SHAWLS@GRANITEWAVE.COM

WATER

CITY OF SHAWANO
SCOTT KROENING
2905 E RICHMOND ST
SHAWANO, WI 54166
PHONE: (715) 526-3512
MOBILE: (715) 853-6238
SKROENING@CITYOFSHAWANO.COM

SHAWANO LAKE SANITARY DISTRICT
RON BYSTOL
P.O. BOX452
SHAWANO, WI 54166
PHONE: (715) 524-2176
MOBILE: (715) 853-2676
SHAWLS@GRANITEWAVE.COM

DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

OTHER CONTACTS

DNR LIAISON

JIM DOPERALSKI
2984 SHAWANO AVE
GREEN BAY, WI 54313
(920) 412-0165
JAMES.DOPERALSKI@WISCONSIN.GOV

US ARMY CORPS OF ENGINEERS

RYAN HUBER
211 N BROADWAY, SUITE 221
GREEN BAY, WI 54303
(651) 290-5859

WISCONSIN CENTRAL LTC (CN)

WISCONSIN CENTRAL LTD (CN)
1625 DEPOT STREET
STEVENS POINT, WI 54481
ATTN: JACQUELINE MACEWICZ
(715) 345-2503
JACKIE.MACEWICZ@CN.CA

CALL BEFORE YOU DIG
CN IS NOT PART OF DIGGERS HOTLINE
CONTACT MARY ELLEN CARMODY
(734) 783-4533

2

TOWN OF BELLE PLAINE

1075 1080 1085 1090 1095 1100 1105 1110 1115 1120

WOLF RIVER

BEGIN PROJECT
ID 9180-23-71
STA 1089+67

REMOVING ASPHALTIC SURFACE MILLING
AND HMA PAVEMENT OVERLAY

CITY OF SHAWANO

WILLOW LN

CTH B

STH 22

PEARL AVE

SUNSET AVE

E ZINGLER AVE

END CONSTRUCTION
ID 9180-23-71
STA 1121+37

W STEVENS AVE

E STEVENS AVE

W LIEG AVE

E LIEG AVE

TOWN OF WAUKECHON

CR FOR CURB RAMP AND SIDEWALK REPAIR AREAS AT THE INTERSECTIONS, SEE PAVING DETAILS

N

BEGIN PROJECT
ID 9180-23-72
STA 1+85

CITY OF SHAWANO

REMOVING ASPHALTIC SURFACE MILLING
AND HMA PAVEMENT OVERLAY

CONSTRUCT SIDEWALK
STA 35+94 - STA 40+15

STH 47/55

N SAWYER ST

N ANDREW ST

N LINCOLN ST

N UNION ST

N HAMLIN ST

WCL RAILROAD

N ELLIS ST

N FAIRVIEW AVE

GREEN BAY CT

ARLINGTON ST

W GREEN BAY ST

5+00 10+00 15+00 20+00 25+00 30+00 35+00 40+00 45+00 50+00

STH 22

S SAWYER ST

S ANDREW ST

S LINCOLN ST

S UNION ST

S HAMLIN ST

S FAIRVIEW AVE

CONSTRUCT SIDEWALK
STA 17+00 - STA 17+90

RECONSTRUCT
RAILROAD CROSSING
STA 22+10 - STA 26+40

REMOVING ASPHALTIC SURFACE MILLING
AND HMA PAVEMENT OVERLAY

CONSTRUCT SIDEWALK
STA 48+78 - STA 50+24

SEE
NEXT
SHEET

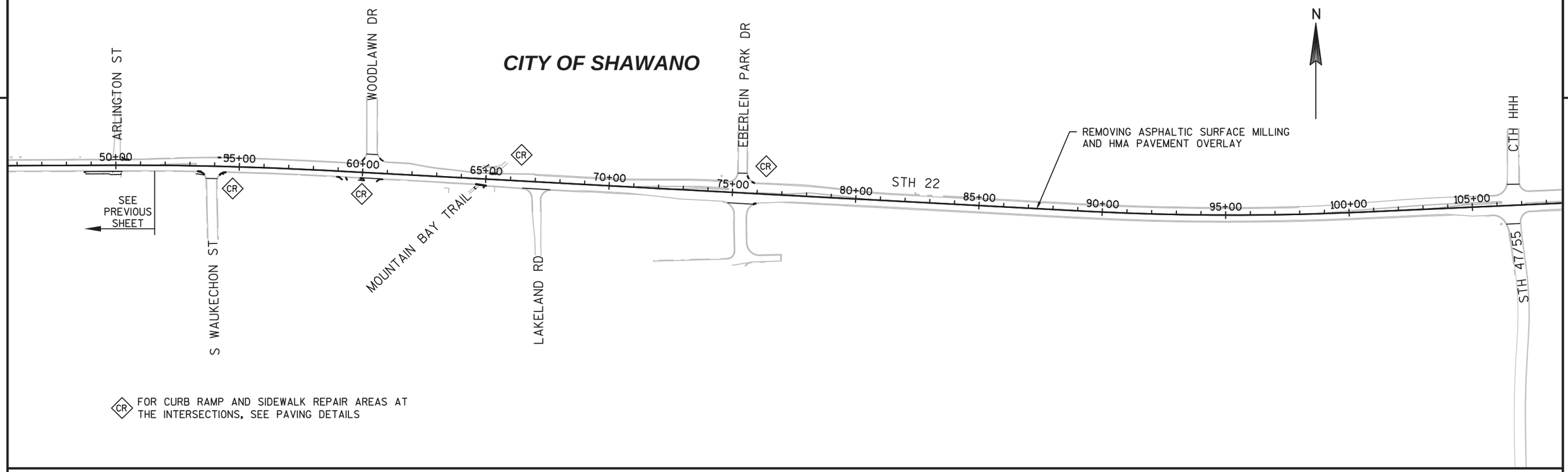
STH 22

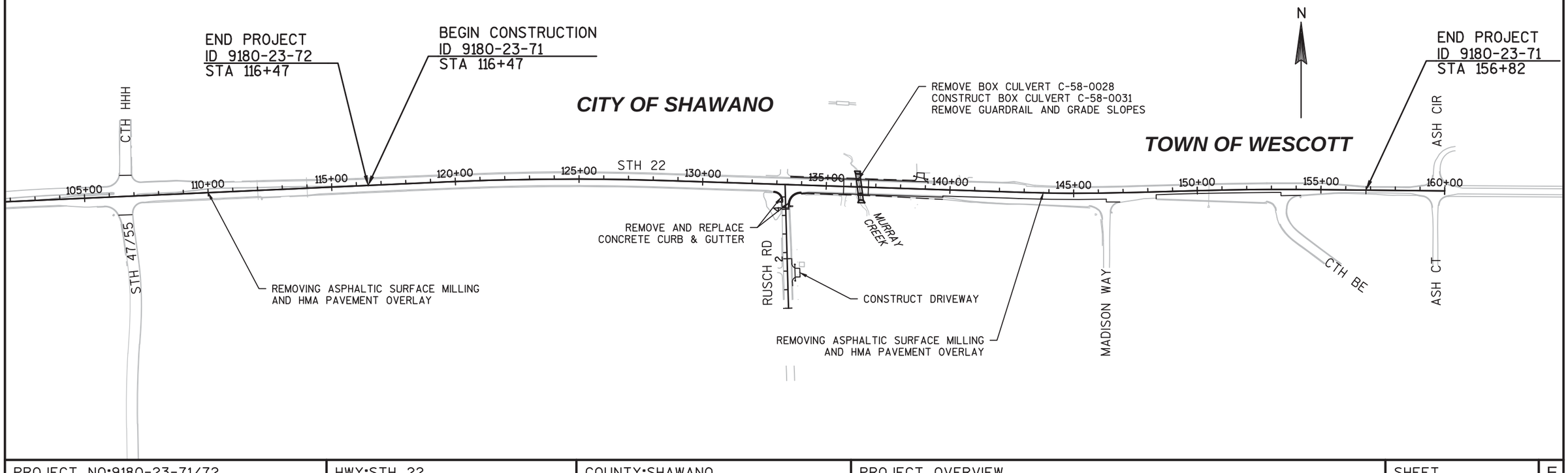
W DIVISION ST

E DIVISION ST

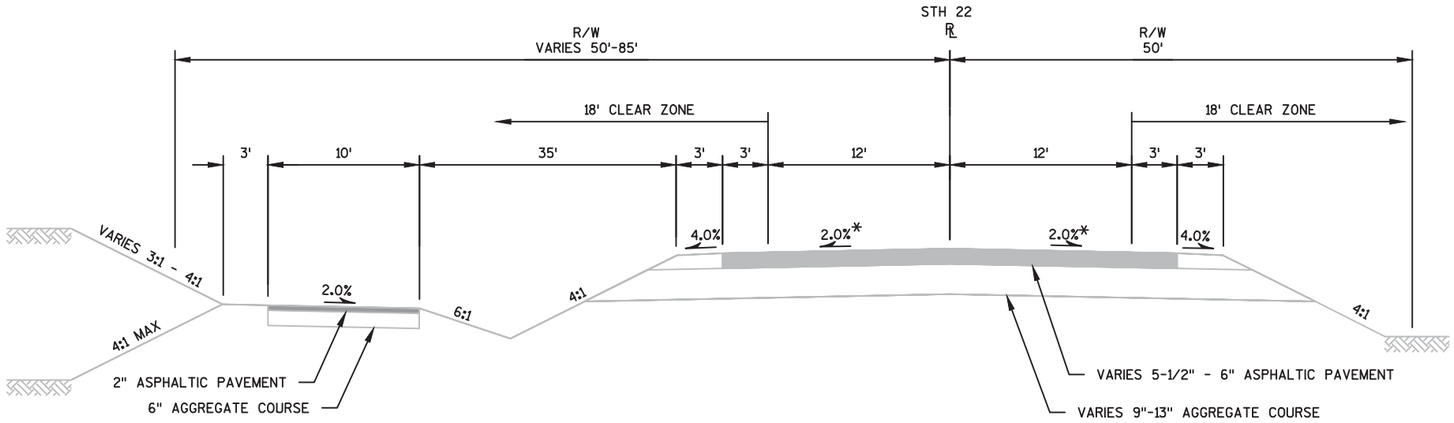
PROJECT NO:9180-23-71/72	HWY:STH 22	COUNTY:SHAWANO	PROJECT OVERVIEW	SHEET 3	E

2

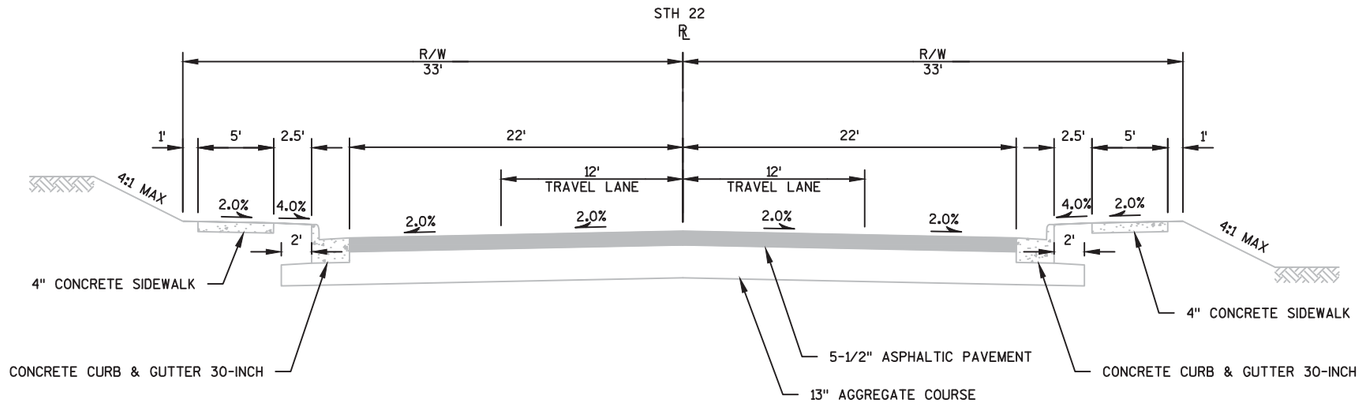




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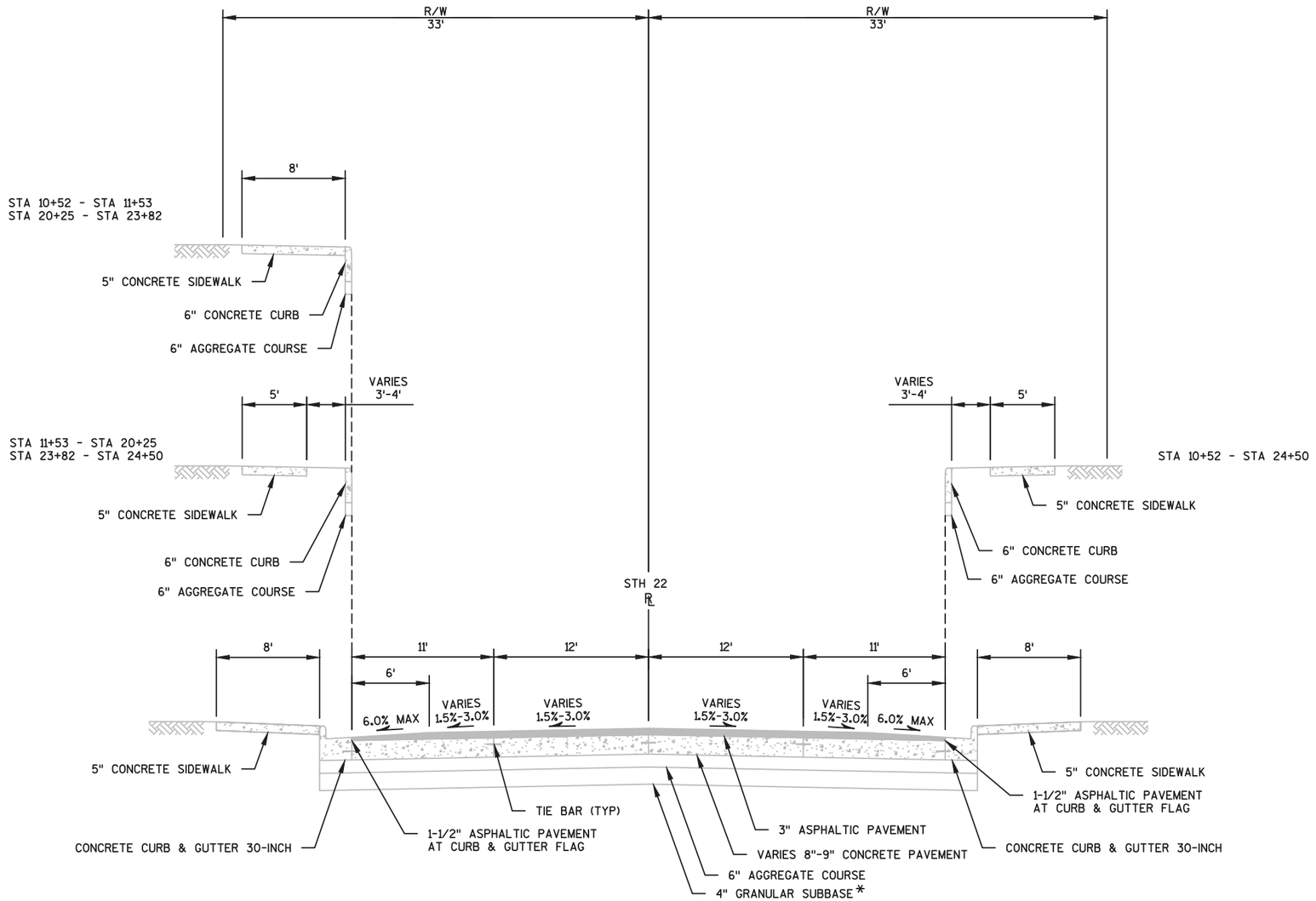
TYPICAL EXISTING SECTION
STH 22
STA 1089+67 - STA 1100+00



TYPICAL EXISTING SECTION
STH 22
STA 1100+00 - STA 1121+37

NOTE
*CROSS SLOPE VARIES DUE TO SUPER ELEVATION (SEE SECTION 5 PLAN SHEETS FOR ADDITIONAL INFORMATION)

PROJECT NO: 9180-23-71/72	HWY: STH 22	COUNTY: SHAWANO	TYPICAL SECTIONS	SHEET 5	E



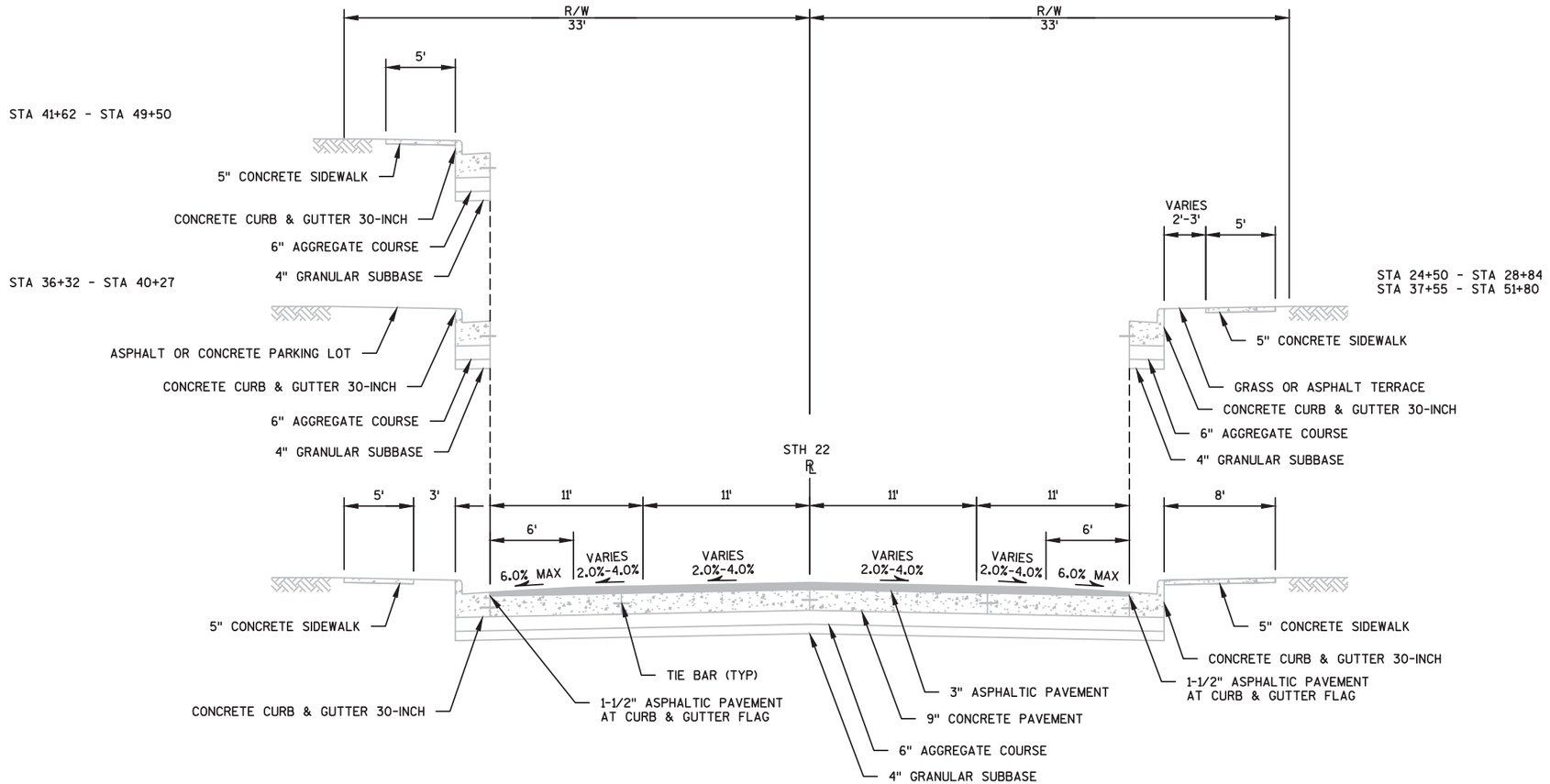
NOTE

* THE 4" GRANULAR SUBBASE IS NOT PRESENT BETWEEN STA 10+00 - STA 24+50

TYPICAL EXISTING SECTION
STH 22
STA 1+85 - STA 24+50

PROJECT NO: 9180-23-71/72	HWY: STH 22	COUNTY: SHAWANO	TYPICAL SECTIONS	SHEET 6	E

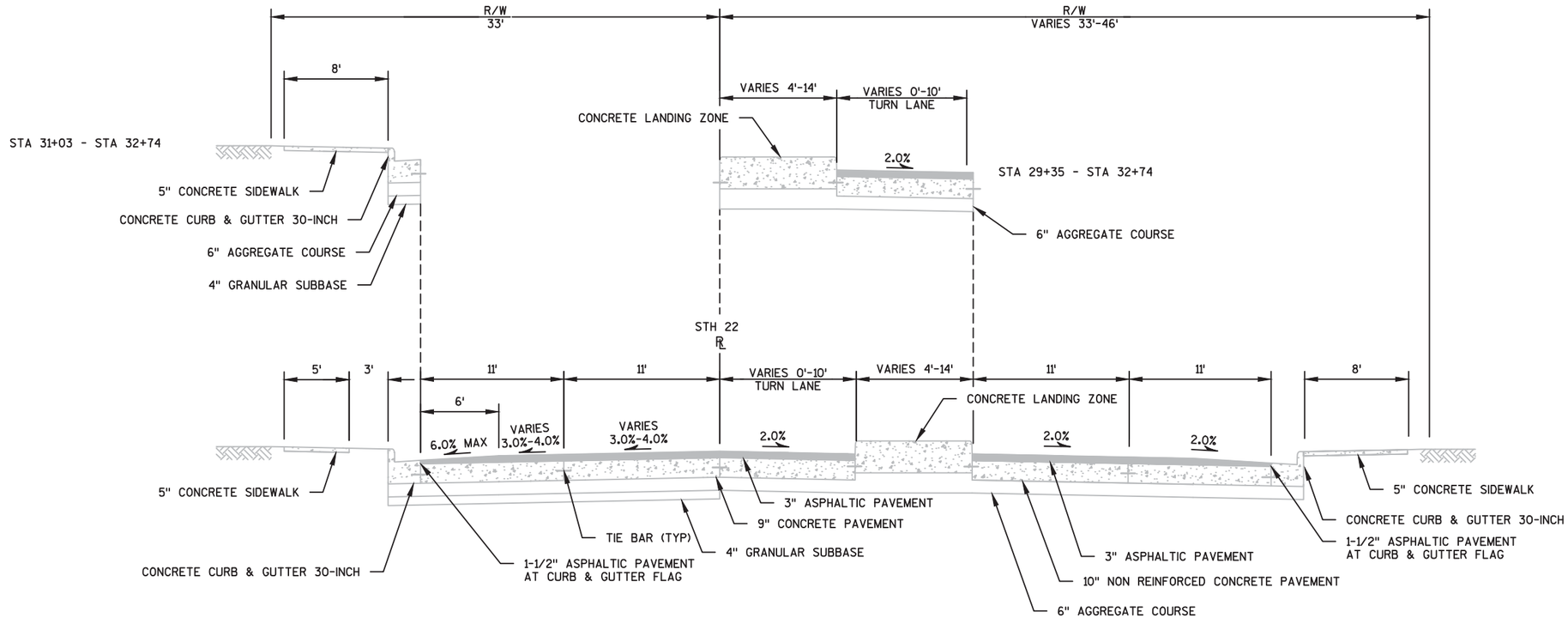
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TYPICAL EXISTING SECTION
STH 22
STA 24+50 - STA 29+35
STA 36+32 - STA 51+80

PROJECT NO: 9180-23-71/72	HWY: STH 22	COUNTY: SHAWANO	TYPICAL SECTIONS	SHEET 7	E

2

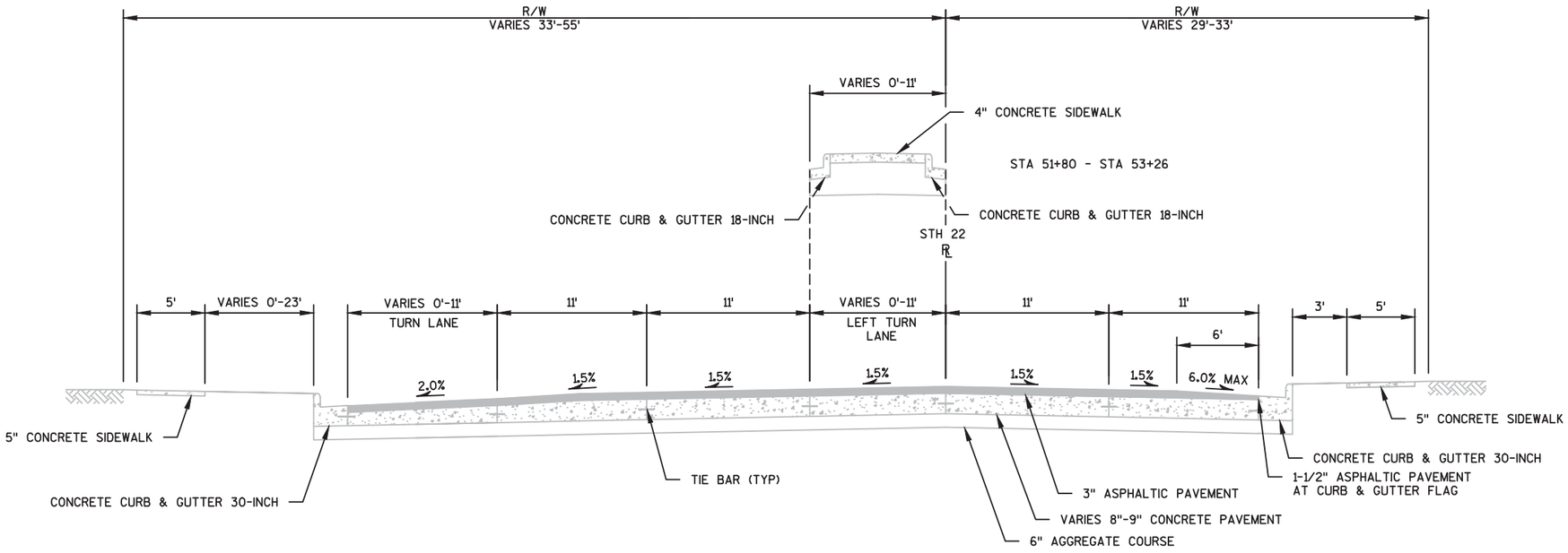


TYPICAL EXISTING SECTION
STH 22

STA 29+35 - STA 36+32
(FAIRVIEW AVE INTERSECTION)

PROJECT NO: 9180-23-71/72	HWY: STH 22	COUNTY: SHAWANO	TYPICAL SECTIONS	SHEET 8	E

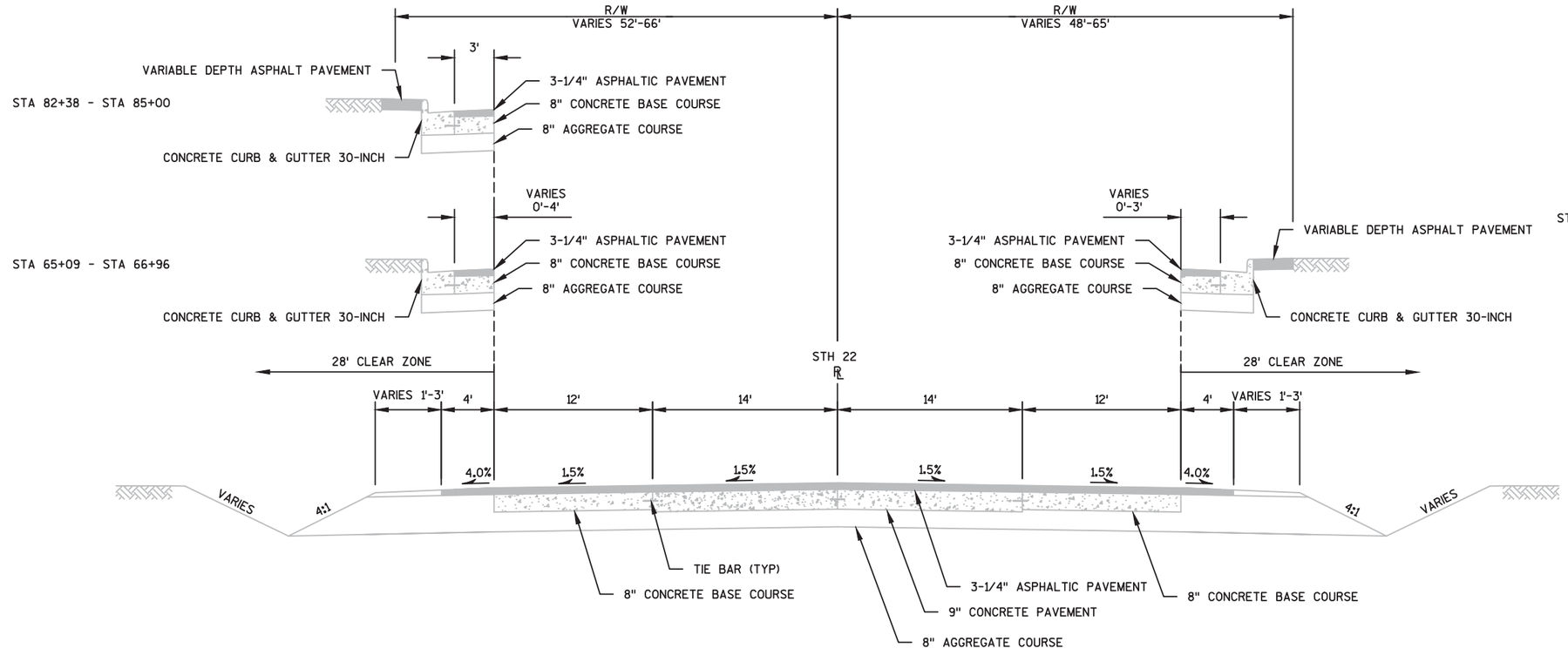
2



TYPICAL EXISTING SECTION
STH 22
STA 51+80 - STA 65+09
(WAUKECHON ST AND WOODLAWN DR INTERSECTIONS)

PROJECT NO: 9180-23-71/72	HWY: STH 22	COUNTY: SHAWANO	TYPICAL SECTIONS	SHEET 9	E

2

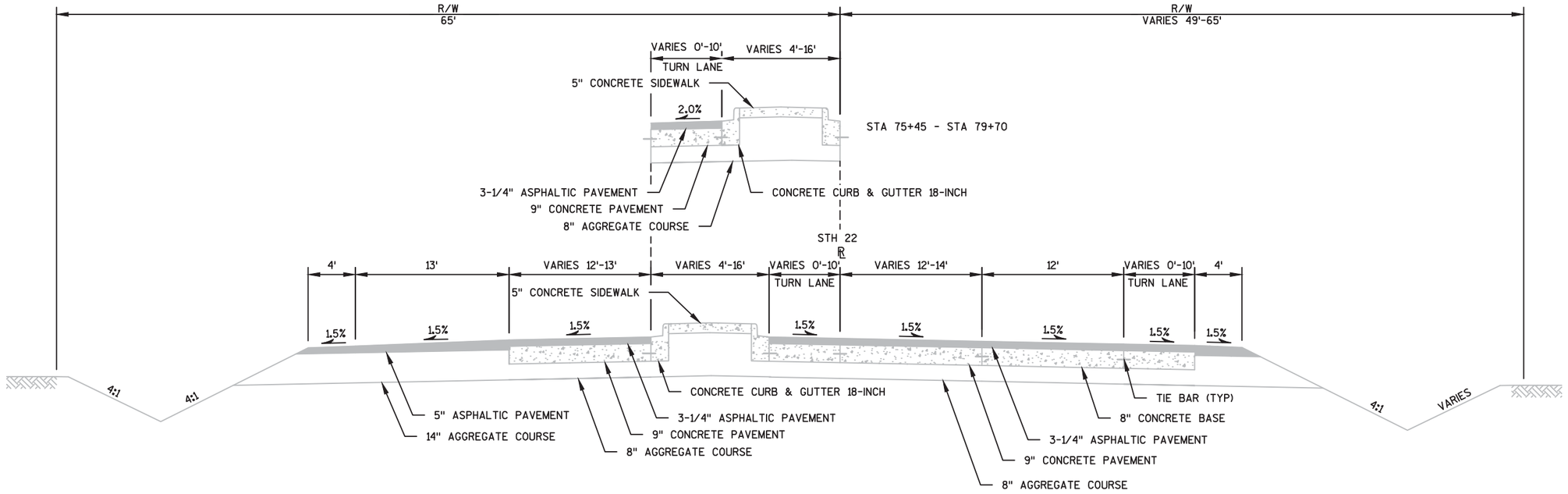


TYPICAL EXISTING SECTION

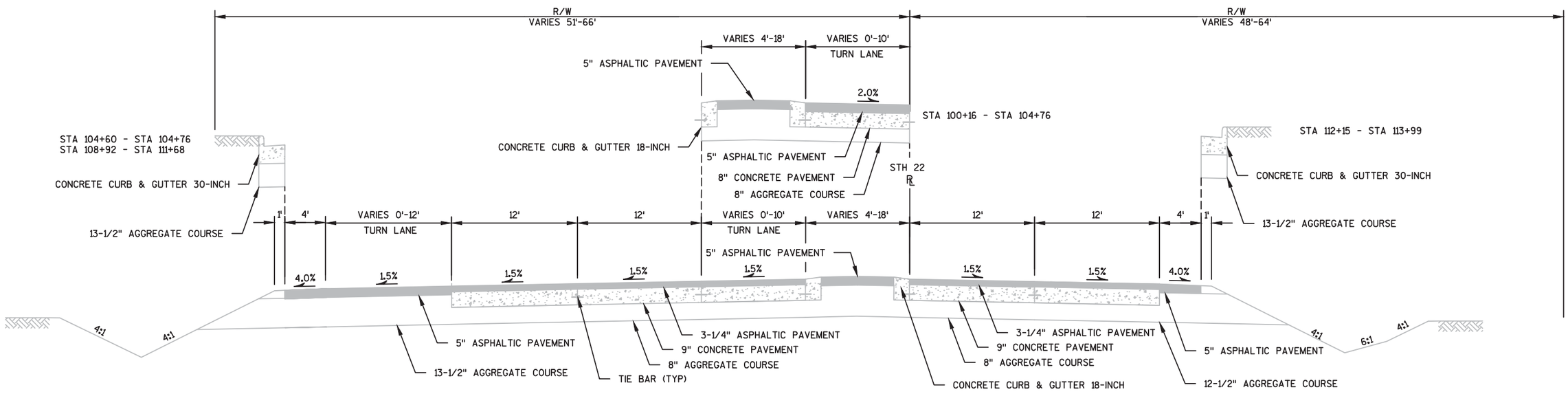
STH 22

STA 65+09 - STA 71+76
STA 79+70 - STA 100+16
STA 114+05 - STA 143+10

PROJECT NO: 9180-23-71/72	HWY: STH 22	COUNTY: SHAWANO	TYPICAL SECTIONS	SHEET 10	E

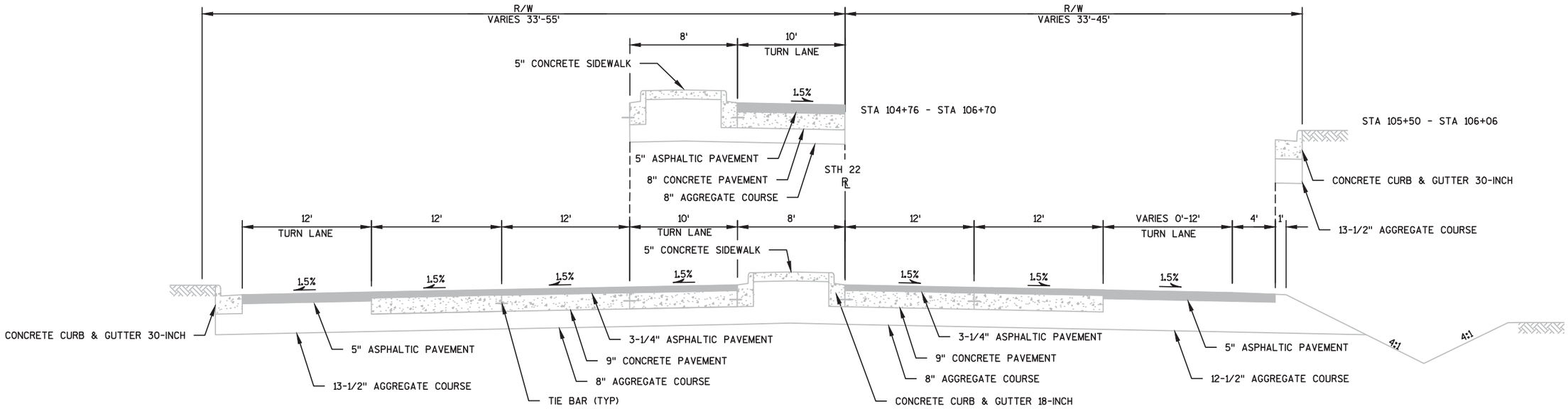


TYPICAL EXISTING SECTION
STH 22
STA 71+76 - STA 79+70
(EBERLEIN PARK DR INTERSECTION)

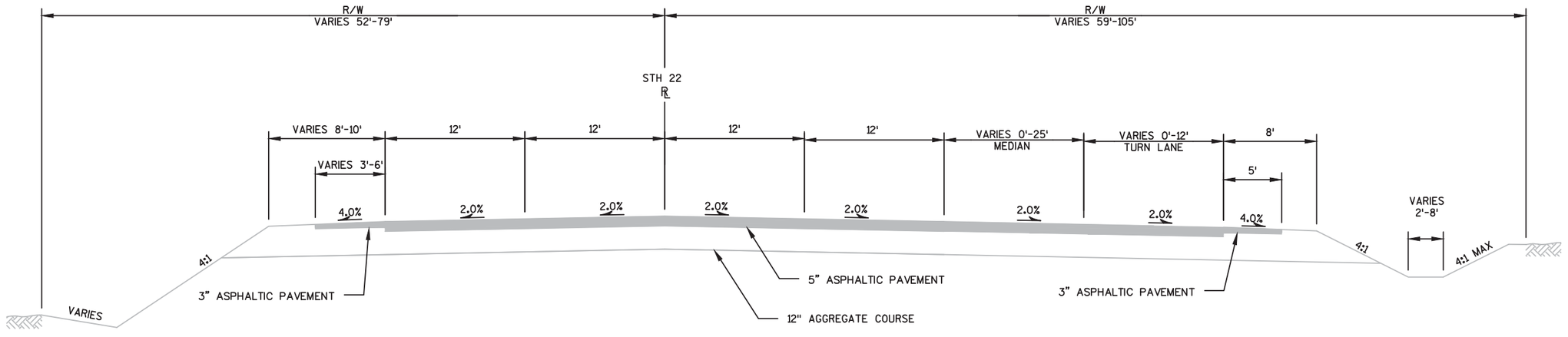


TYPICAL EXISTING SECTION
STH 22
STA 100+16 - STA 104+76
STA 108+92 - STA 114+05
(STH 47/STH 55/CTH HHH INTERSECTION)

PROJECT NO: 9180-23-71/72	HWY: STH 22	COUNTY: SHAWANO	TYPICAL SECTIONS	SHEET 11	E

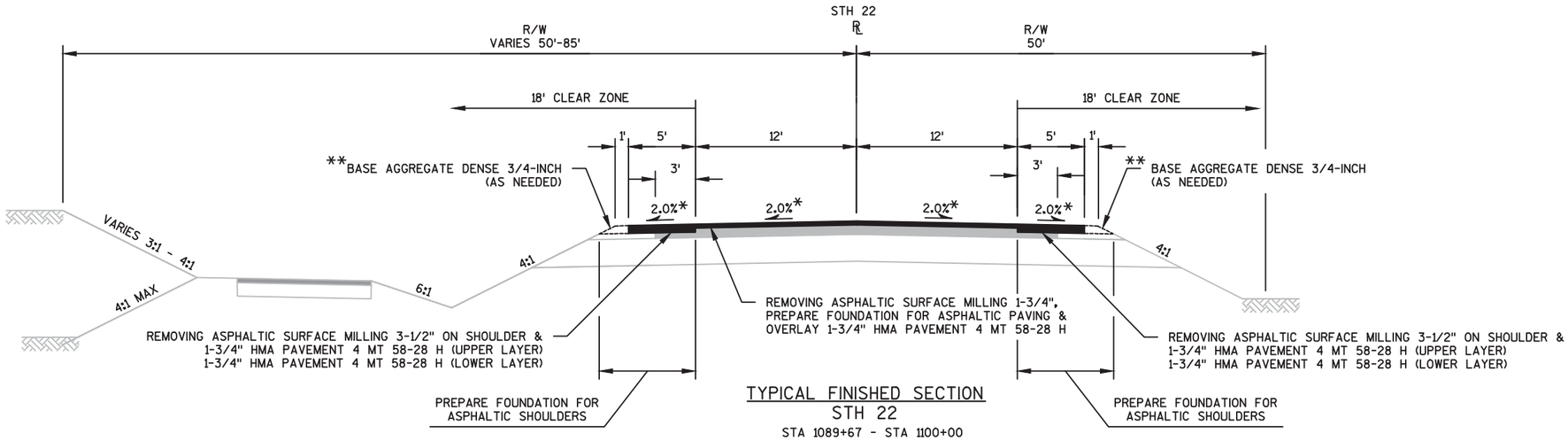


TYPICAL EXISTING SECTION
STH 22
STA STA 104+76 - STA 108+92

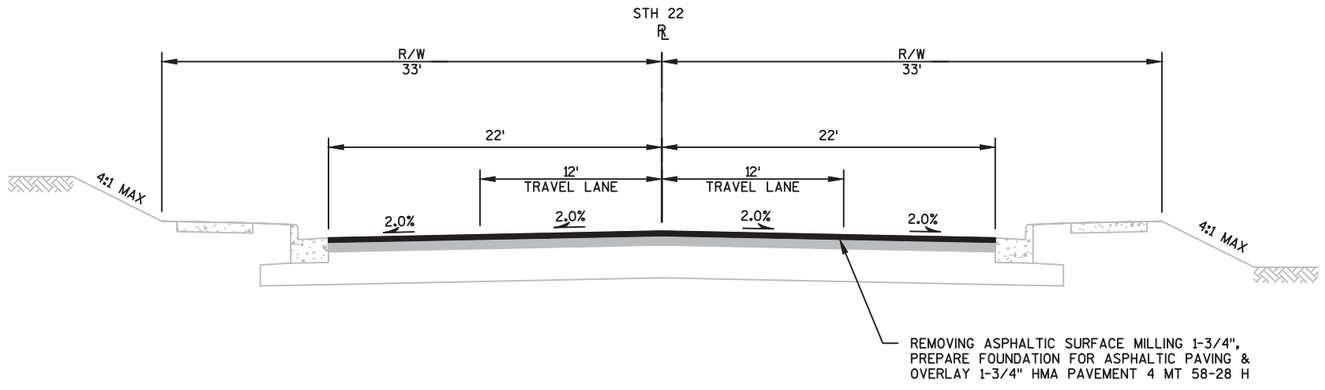


TYPICAL EXISTING SECTION
STH 22
STA 143+10 -STA 156+82

PROJECT NO: 9180-23-71/72	HWY: STH 22	COUNTY: SHAWANO	TYPICAL SECTIONS	SHEET 12	E



TYPICAL FINISHED SECTION
STH 22
STA 1089+67 - STA 1100+00

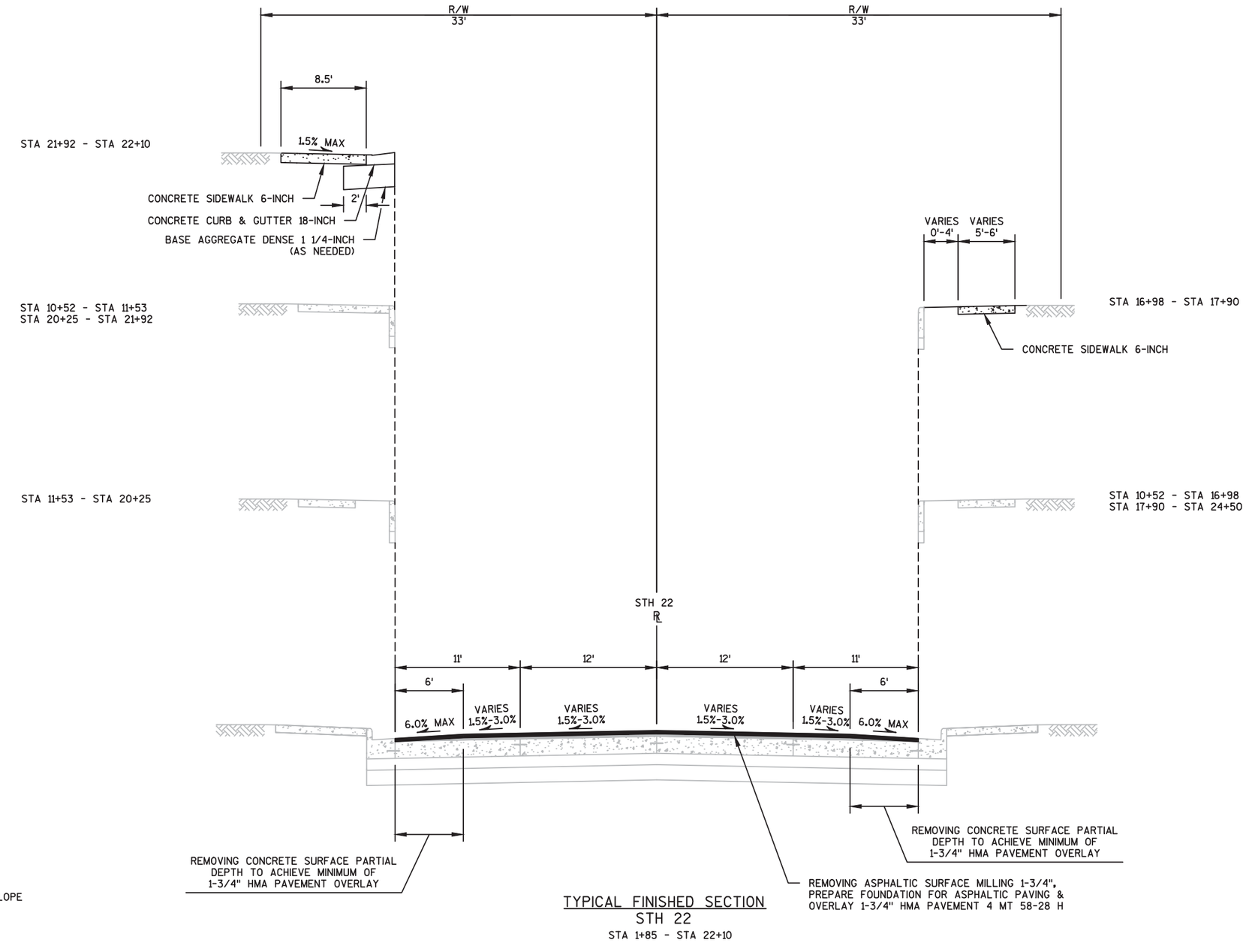


TYPICAL FINISHED SECTION
STH 22
STA 1100+00 - STA 1121+37

NOTES
*CROSS SLOPE VARIES DUE TO SUPER ELEVATION (SEE SECTION 5 PLAN SHEETS FOR ADDITIONAL INFORMATION).

**AFTER COMPLETION OF PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS, AND CONSTRUCTION OF ASPHALTIC PAVEMENT ON THE SHOULDERS; PLACE BASE AGGREGATE DENSE 3/4-INCH TO BRING SHOULDER UP TO PAVEMENT SURFACE.

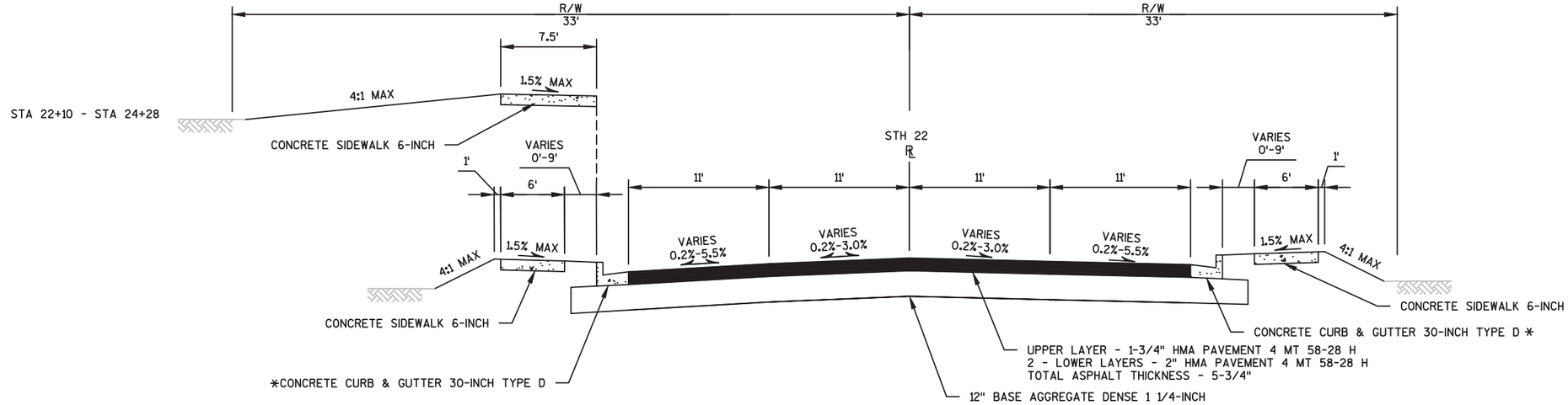
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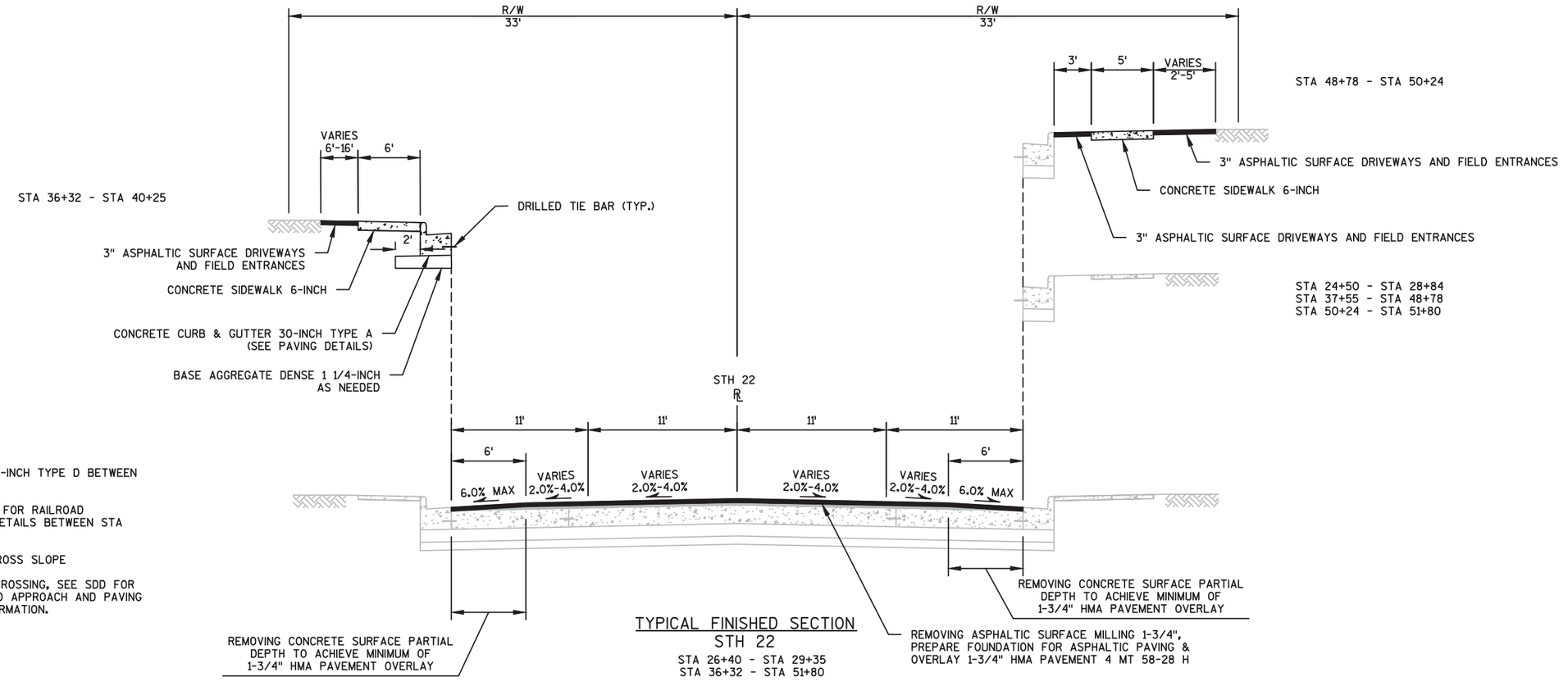
NOTE
MATCH EXISTING PAVEMENT CROSS SLOPE

TYPICAL FINISHED SECTION
STH 22
STA 1+85 - STA 22+10

PROJECT NO: 9180-23-71/72	HWY: STH 22	COUNTY: SHAWANO	TYPICAL SECTIONS	SHEET 14	E



TYPICAL FINISHED SECTION
STH 22
STA 22+10 - STA 26+40
(RAILROAD CROSSING APPROACHES)



TYPICAL FINISHED SECTION
STH 22
STA 26+40 - STA 29+35
STA 36+32 - STA 51+80

NOTES
*CONCRETE CURB & GUTTER 18-INCH TYPE D BETWEEN STA 22+10 - STA 22+42

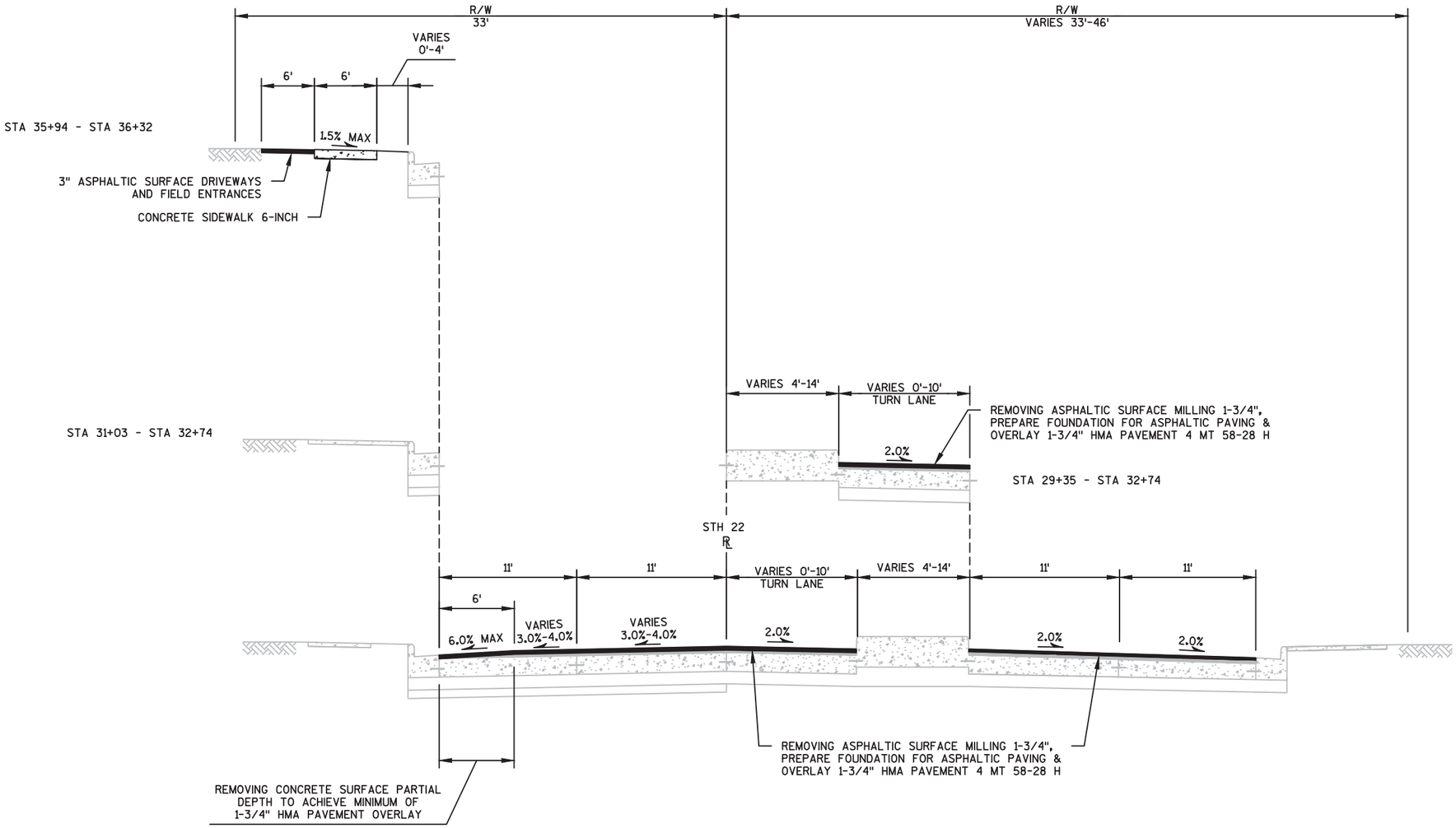
SEE SDD "PAVEMENT DETAILS FOR RAILROAD APPROACH" FOR ADDITIONAL DETAILS BETWEEN STA 22+10 - STA 26+40

MATCH EXISTING PAVEMENT CROSS SLOPE

DIRECTLY AT THE RAILROAD CROSSING, SEE SDD FOR PAVING DETAILS FOR RAILROAD APPROACH AND PAVING DETAILS FOR ADDITIONAL INFORMATION.

PROJECT NO: 9180-23-71/72	HWY: STH 22	COUNTY: SHAWANO	TYPICAL SECTIONS	SHEET 15	E

2

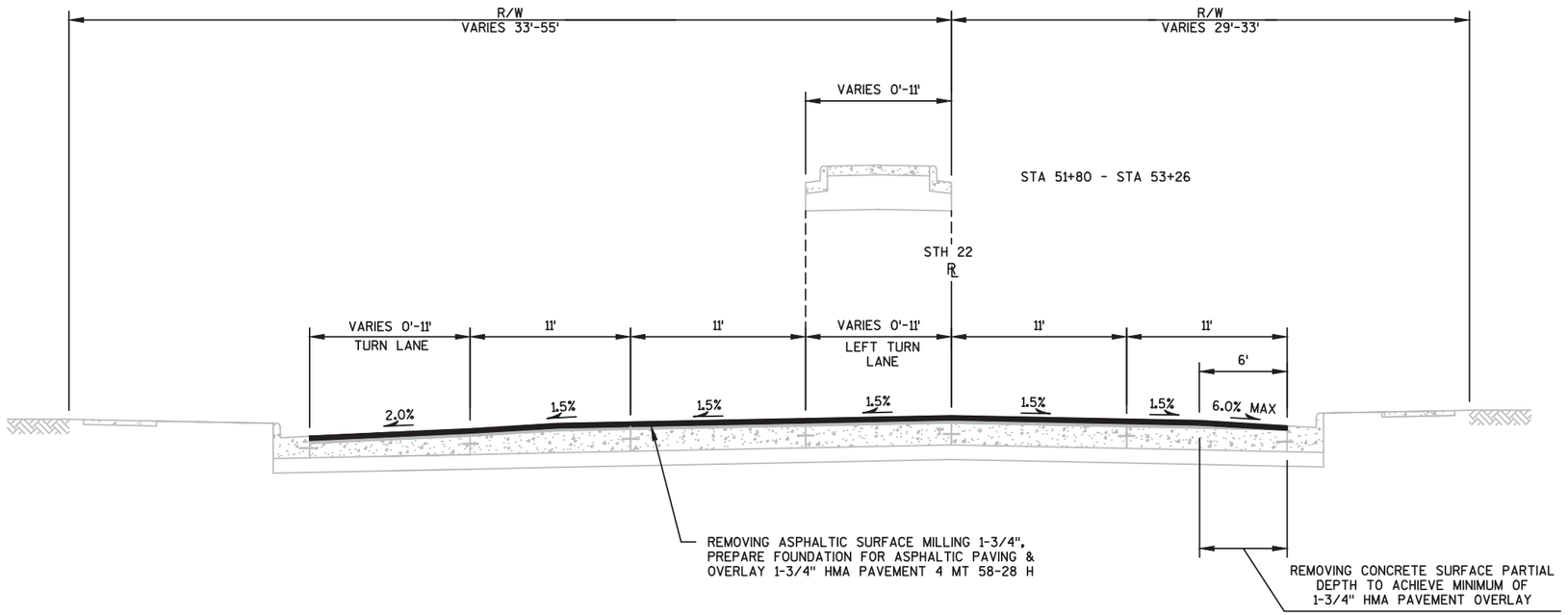


TYPICAL EXISTING SECTION
STH 22

STA 29+35 - STA 36+32
(FAIRVIEW AVE INTERSECTION)

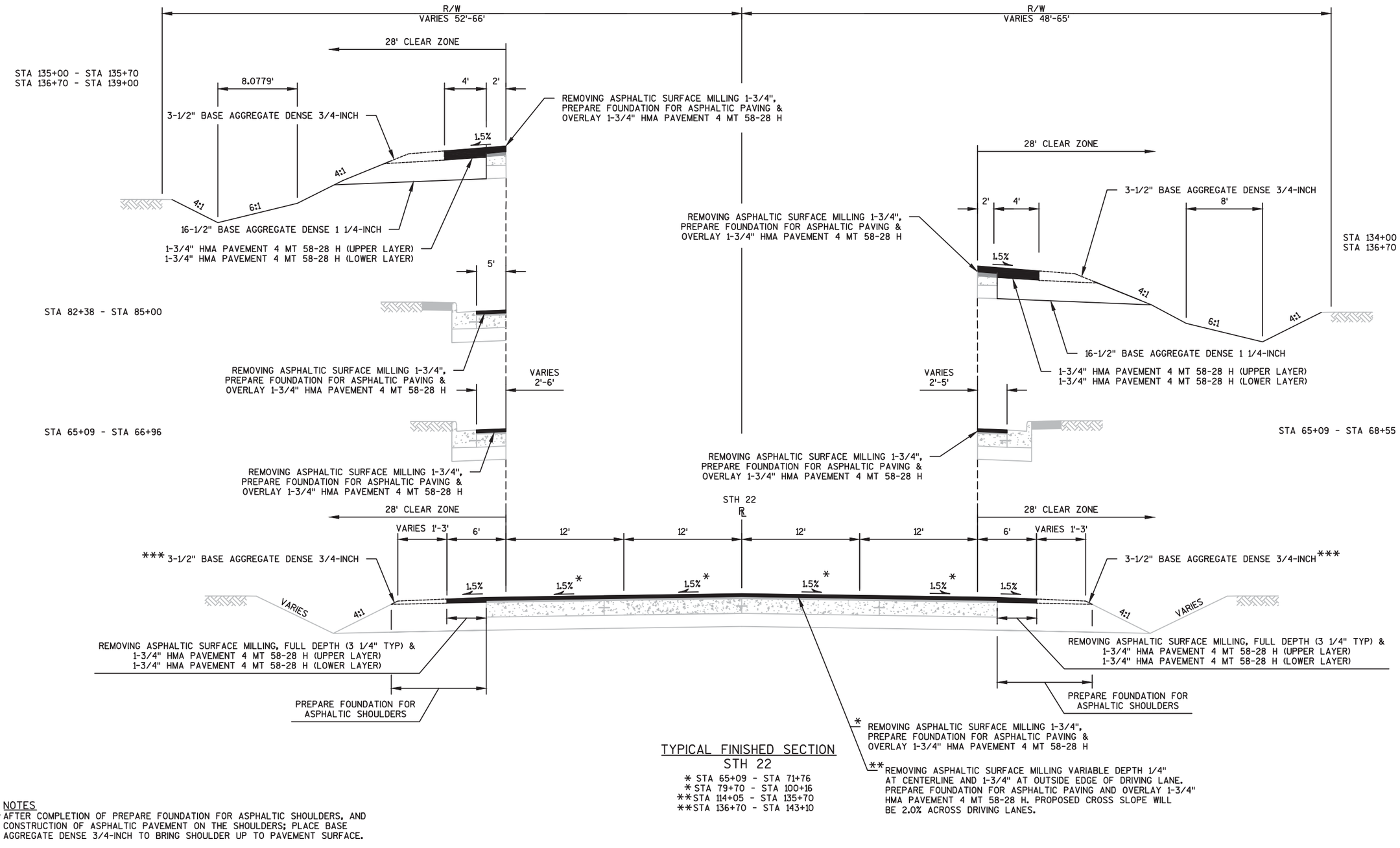
NOTE
MATCH EXISTING PAVEMENT CROSS SLOPE

2



TYPICAL FINISHED SECTION
STH 22
STA 51+80 - STA 65+09
(WAUKECHON ST AND WOODLAWN DR INTERSECTIONS)

2



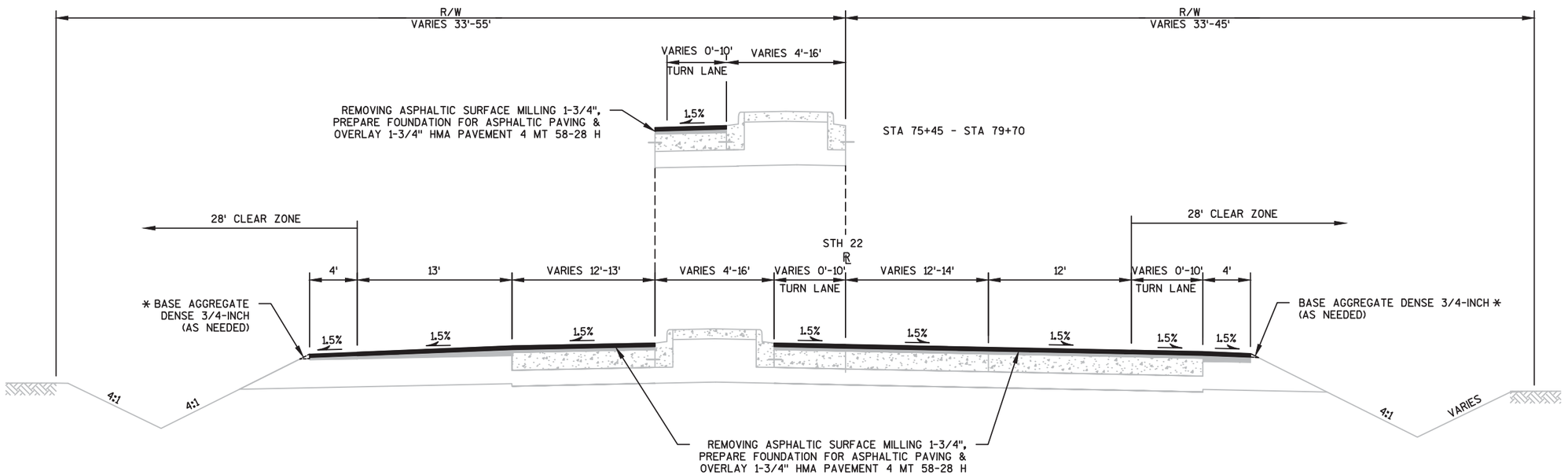
TYPICAL FINISHED SECTION
STH 22

* STA 65+09 - STA 71+76
* STA 79+70 - STA 100+16
** STA 114+05 - STA 135+70
** STA 136+70 - STA 143+10

NOTES
*** AFTER COMPLETION OF PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS, AND CONSTRUCTION OF ASPHALTIC PAVEMENT ON THE SHOULDERS; PLACE BASE AGGREGATE DENSE 3/4-INCH TO BRING SHOULDER UP TO PAVEMENT SURFACE.

PROJECT NO: 9180-23-71/72	HWY: STH 22	COUNTY: SHAWANO	TYPICAL SECTIONS	SHEET 18	E

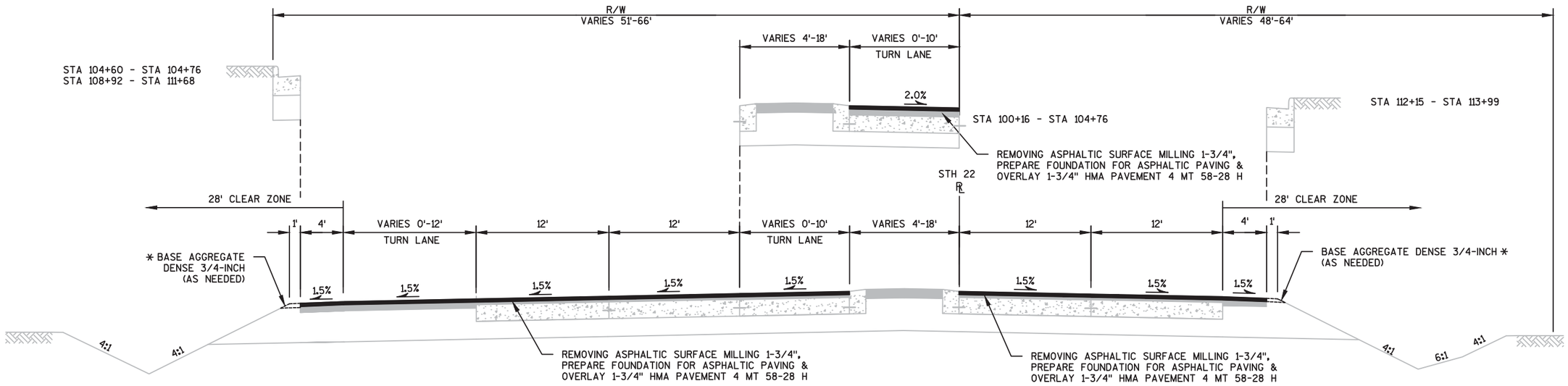
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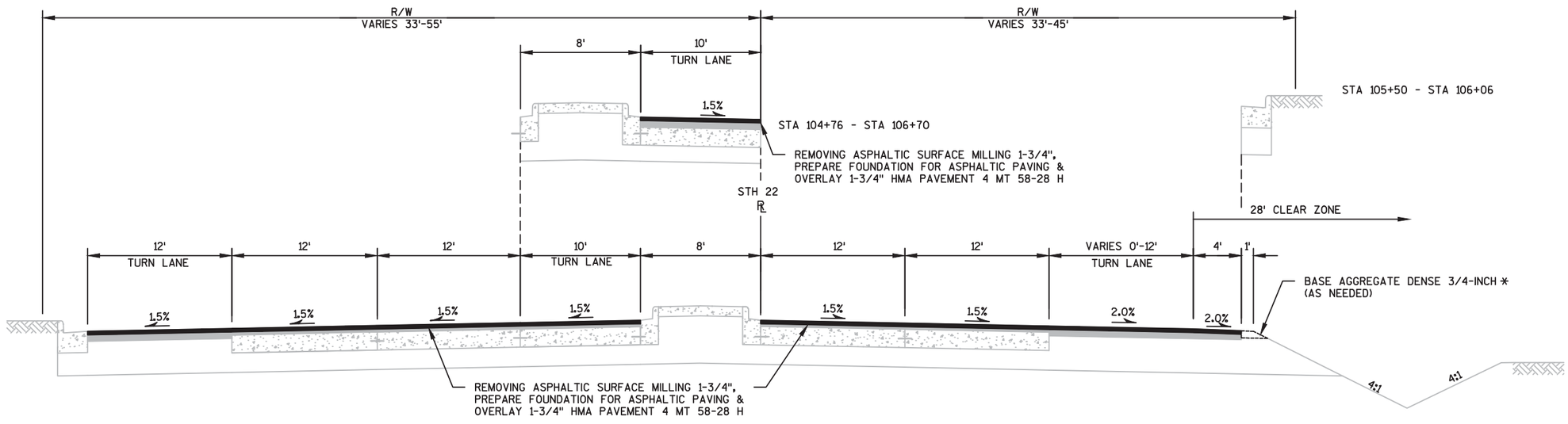
TYPICAL FINISHED SECTION
STH 22
STA 71+76 - STA 79+70
(EBERLEIN PARK DR INTERSECTION)

NOTES
* AFTER COMPLETION OF THE SHAPING SHOULDERS AND CONSTRUCTION OF ASPHALTIC PAVEMENT ON THE SHOULDERS; PLACE BASE AGGREGATE DENSE 3/4-INCH TO BRING SHOULDER UP TO PAVEMENT SURFACE.

2



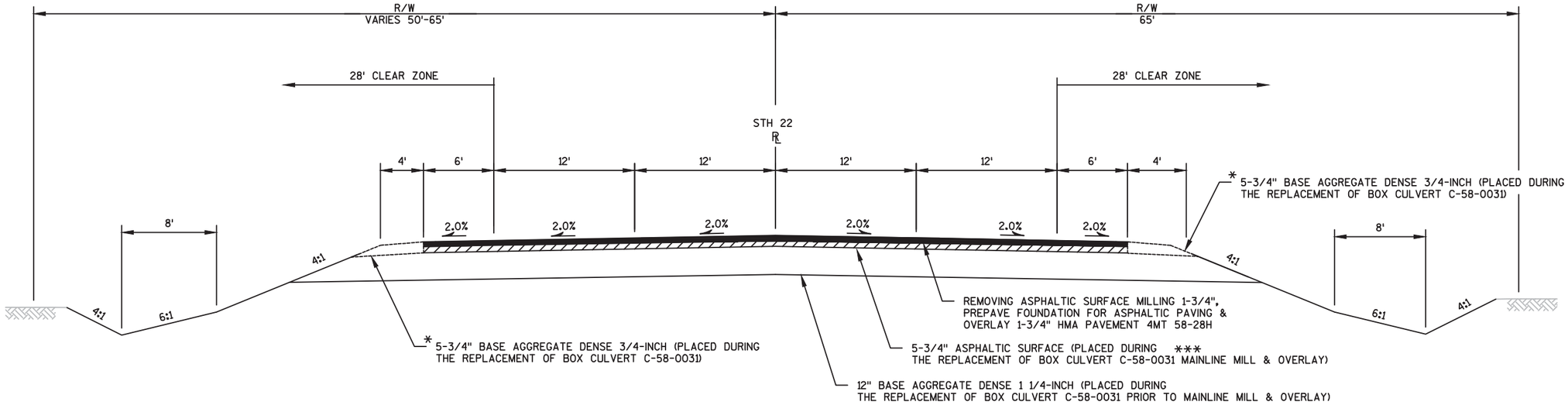
TYPICAL FINISHED SECTION
STH 22
STA 100+16 - STA 104+76
STA 108+92 - STA 114+05
(STH 47/STH 55/CTH HHH INTERSECTION)



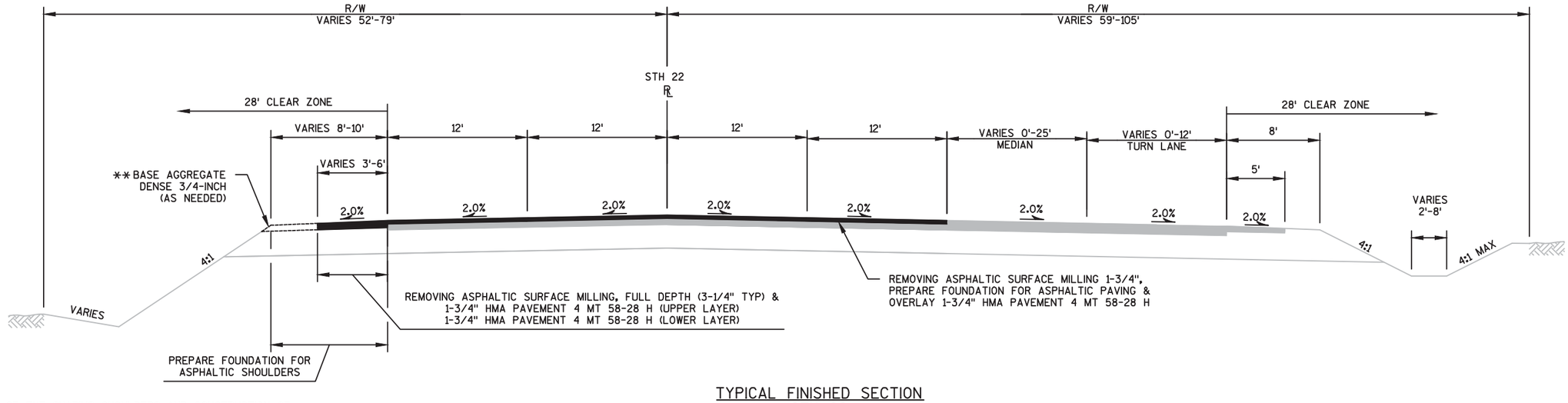
NOTE
* AFTER COMPLETION OF THE SHAPING SHOULDERS AND CONSTRUCTION OF ASPHALTIC PAVEMENT ON THE SHOULDERS; PLACE BASE AGGREGATE DENSE 3/4-INCH TO BRING SHOULDER UP TO PAVEMENT SURFACE.

TYPICAL FINISHED SECTION
STH 22
STA STA 104+76 - STA 108+92

PROJECT NO: 9180-23-71/72	HWY: STH 22	COUNTY: SHAWANO	TYPICAL SECTIONS	SHEET 20	E



TYPICAL FINISHED SECTION
STH 22
STA 135+70 - STA 136+70



TYPICAL FINISHED SECTION
STH 22
STA 143+10 -STA 156+82

NOTES

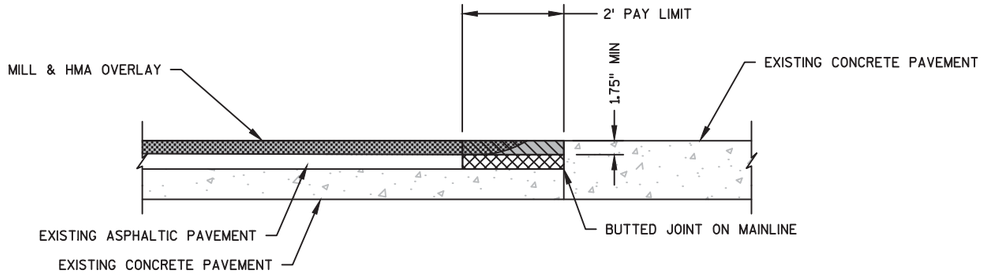
* AFTER COMPLETION OF THE SHAPING SHOULDERS AND CONSTRUCTION OF ASPHALTIC PAVEMENT ON THE SHOULDERS; PLACE BASE AGGREGATE DENSE 3/4-INCH TO BRING SHOULDER UP TO PAVEMENT SURFACE.

** AFTER COMPLETION OF PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS, AND CONSTRUCTION OF ASPHALTIC PAVEMENT ON THE SHOULDERS; PLACE BASE AGGREGATE DENSE 3/4-INCH TO BRING SHOULDER UP TO PAVEMENT SURFACE.

*** PLACE ASPHALTIC SURFACE FULL DEPTH OVER BOX CULVERT C-58-31 FOR A TOTAL ASPHALT THICKNESS OF 5-3/4" PRIOR TO THE MAINLINE MILL & OVERLAY
UPPER LAYER - 1-3/4" ASPHALTIC SURFACE
2 - LOWER LAYERS - 2" ASPHALTIC SURFACE

PROJECT NO: 9180-23-71/72	HWY: STH 22	COUNTY: SHAWANO	TYPICAL SECTIONS	SHEET 21	E

2



ASPHALTIC WEDGING
(FULL DEPTH REMOVAL OPTIONAL)

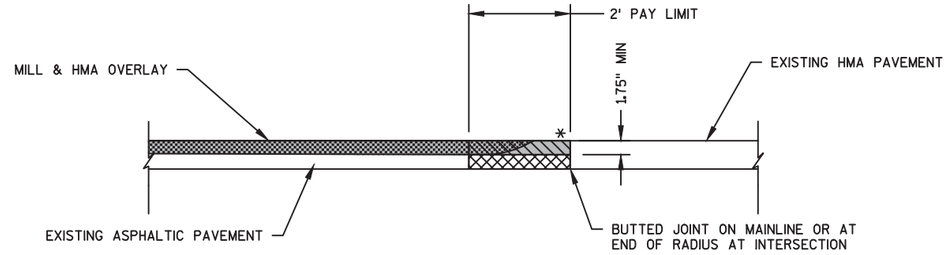
REMOVING ASPHALTIC SURFACE BUTT JOINTS
DO NOT REMOVE MATERIAL UNDER THIS ITEM UNTIL 24 HOURS BEFORE PAVING

REMOVING ASPHALTIC SURFACE MILLING

HMA OVERLAY

ASPHALTIC SURFACE BUTT JOINT DETAIL

BEGIN PROJECT 9180-23-72 (STA 1+85)



ASPHALTIC WEDGING
(FULL DEPTH REMOVAL OPTIONAL)

REMOVING ASPHALTIC SURFACE BUTT JOINTS
DO NOT REMOVE MATERIAL UNDER THIS ITEM UNTIL 24 HOURS BEFORE PAVING

REMOVING ASPHALTIC SURFACE MILLING

HMA OVERLAY

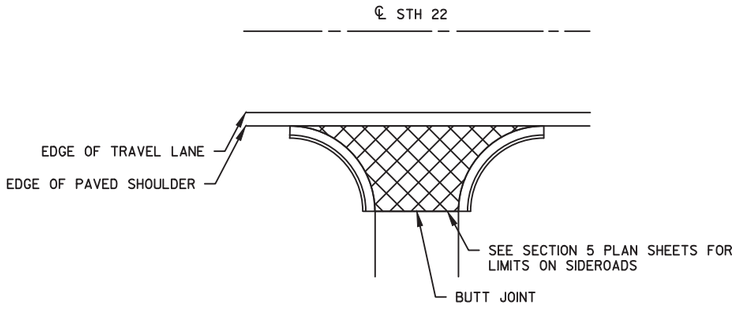
* FULL DEPTH SAWCUT REQD

ASPHALTIC SURFACE BUTT JOINT DETAIL

BEGIN PROJECT 9180-23-71 (STA 1089+67)
END CONSTRUCTION PROJECT 9180-23-71 (STA 1121+37)
END PROJECT 9180-23-71 (STA 156+82)
STH 22/CTH B
STH 22/WILLOW LN
STH 22/PEARL LN
STH 22/SUNSET AVE
STH 22/E. ZINGLER AVE
STH 22/ANDREWS ST

STH 22/LINCOLN ST
STH 22/HAMLIN ST
STH 22/S FAIRVIEW AVE
STH 22/GREEN BAY CT
STH 22/S WAUKECHON ST
STH 22/WOODLAWN DR
STH 22/STH 47/STH 55/CTH HHH
STH 22/RUSCH RD

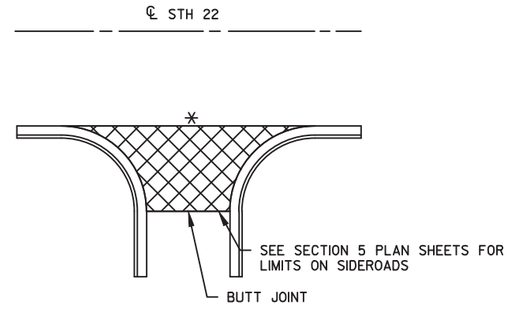
2



1.75" MILL & 1.75" HMA PAVEMENT OVERLAY

PLAN VIEW OF MILL & OVERLAY AT RURAL INTERSECTIONS DETAIL

STH 22/EBERLEIN PARK DR
STH 22/STH 47/STH 55/CTH HHH
STH 22/RUSCH RD
STH 22/MADISON WAY
STH 22/CTH BE



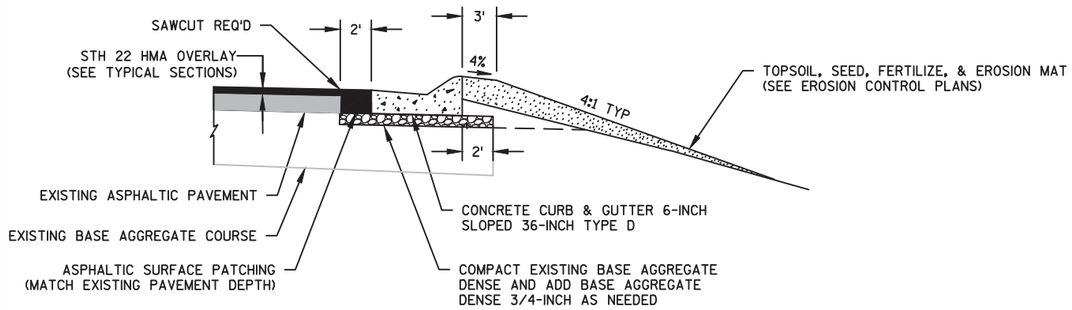
1.75" MILL & 1.75" HMA PAVEMENT OVERLAY

PLAN VIEW OF MILL & OVERLAY AT URBAN INTERSECTIONS DETAIL

STH 22/CTH B
STH 22/WILLOW LN
STH 22/PEARL LN
STH 22/SUNSET AVE
STH 22/E. ZINGLER AVE
STH 22/ANDREWS ST
STH 22/LINCOLN ST
STH 22/HAMLIN ST
STH 22/S. FAIRVIEW AVE
STH 22/GREEN BAY CT
STH 22/S. WAUKECHON ST
STH 22/WOODLAWN DR

NOTE
* MATCH EXISTING CONCRETE AT THE EDGE OF THROUGH LANE AT THE SAWYER ST, UNION ST, ELLIS ST, N. FAIRVIEW AVE, ARLINGTON ST, AND LAKELAND RD INTERSECTIONS. NO SIDE ROAD PAVING OR BUTT JOINT REQUIRED.

PROJECT NO:9180-23-71/72	HWY:STH 22	COUNTY:SHAWANO	CONSTRUCTION DETAILS	SHEET 22	E

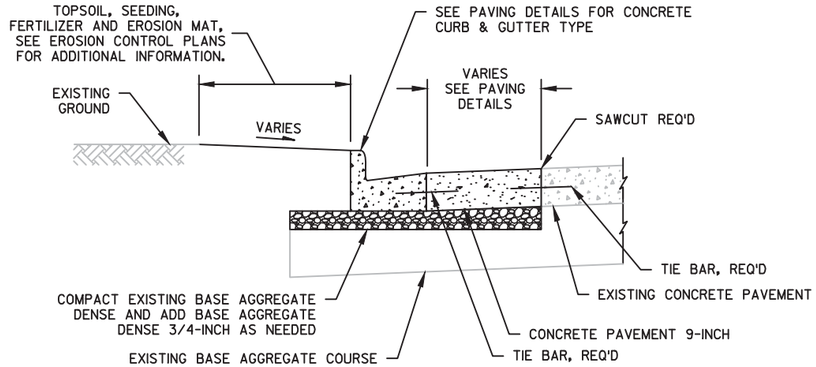


DETAIL OF CURB & GUTTER INSTALLATION

AT INTERSECTION RADII
RUSCH RD

NOTE

COMPLETE CURB & GUTTER REPLACEMENT AND ASPHALTIC SURFACE PATCHING
PRIOR TO MILL AND OVERLAY OF STH 22



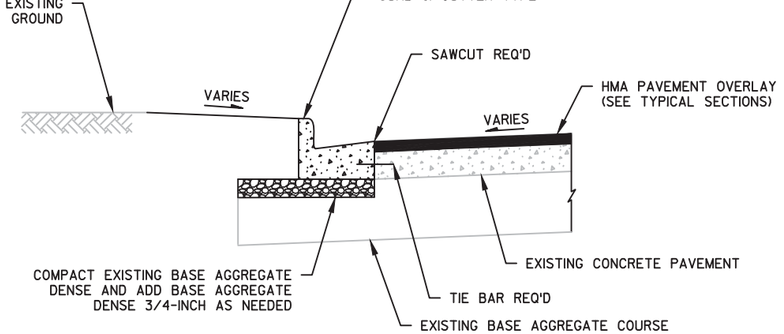
DETAIL OF CURB & GUTTER REPLACEMENT
ADJACENT TO EXISTING CONCRETE PAVEMENT

SPOT CURB RAMP UPGRADES ON SIDE ROADS
MAIN ST - EBERLEIN PARK DR

NOTES

COMPLETE CURB & GUTTER REPLACEMENTS PRIOR TO MILL AND OVERLAY OF STH 22

FOR DETAILS NOT SHOWN, SEE SDD "CONCRETE CURB, CONCRETE CURB & GUTTER" AND
"CONCRETE CURB TIES AND CURB & GUTTER APPLICATIONS"



DETAIL OF CURB & GUTTER REPLACEMENT
ADJACENT TO CONCRETE OVERLAID WITH ASPHALTIC PAVEMENT

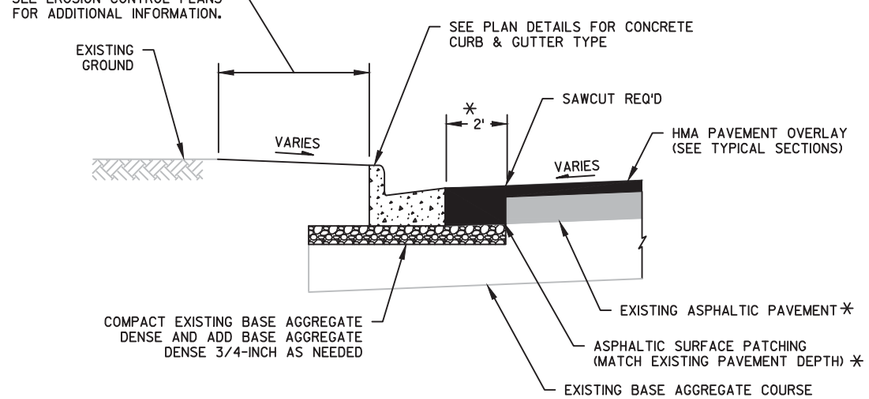
SPOT CURB RAMP UPGRADES AND DRIVEWAY UPGRADES
MAIN ST - EBERLEIN PARK DR

NOTES

COMPLETE CURB & GUTTER REPLACEMENTS PRIOR TO MILL AND OVERLAY OF STH 22

FOR DETAILS NOT SHOWN, SEE SDD "CONCRETE CURB, CONCRETE CURB & GUTTER" AND
"CONCRETE CURB TIES AND CURB & GUTTER APPLICATIONS"

* STA 17+54 TO STA 17+87 PLACE CONCRETE CURB TYPE A



DETAIL OF CURB & GUTTER REPLACEMENT
ADJACENT TO ASPHALTIC PAVEMENT OR ADJUSTING INLET LOCATIONS

SPOT CURB RAMP UPGRADES
STH 22 (CTH B - ZINGLER AVE)
SIDE ROADS (MAIN ST - EBERLEIN PARK DR)

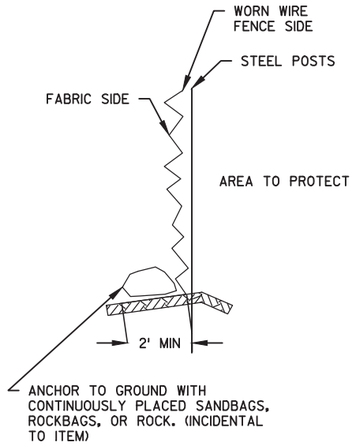
NOTES

COMPLETE CURB & GUTTER REPLACEMENTS PRIOR TO MILL AND OVERLAY OF STH 22

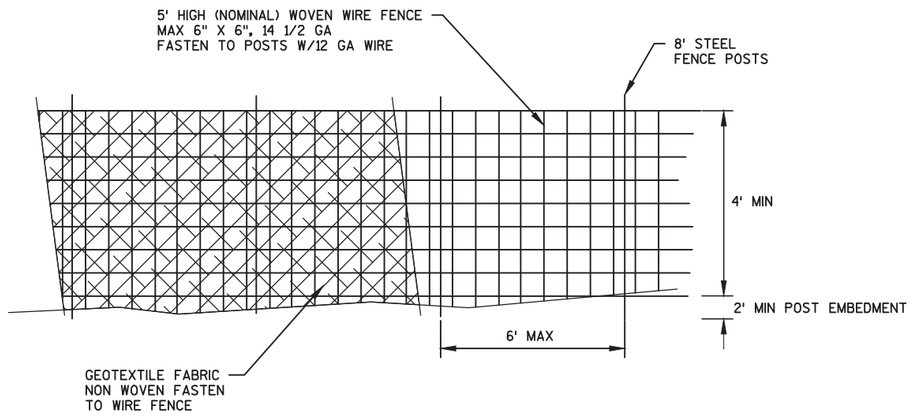
FOR DETAILS NOT SHOWN, SEE SDD "CONCRETE CURB, CONCRETE CURB & GUTTER" AND
"CONCRETE CURB TIES AND CURB & GUTTER APPLICATIONS"

* IN LOCATIONS WHERE ADJUSTING INLET COVERS IS REQUIRED, THE ASPHALTIC SURFACE
PATCH IS 4'. BETWEEN MAIN ST AND EBERLIEN PARK DR THE EXISTING PAVEMENT
STRUCTURE IS APPROXIMATELY 1.5" ASPHALTIC PAVEMENT OVER 9" CONCRETE PAVEMENT

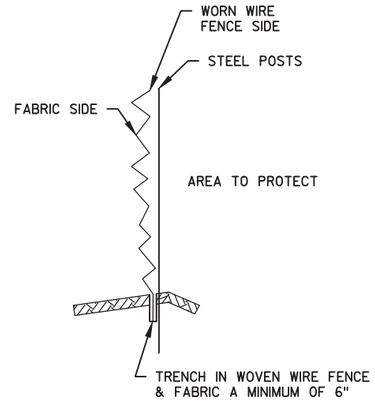
NOTE
THE FABRIC TO WOVEN WIRE FENCE EVERY 2-FEET ADJUST
POST EMBEDMENT AND/OR SPACING BASED ON EXISTING SOILS



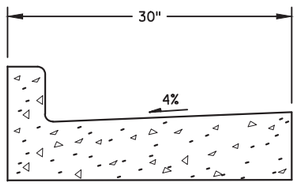
ANCHORED INSTALLATION FOR WET CONDITION



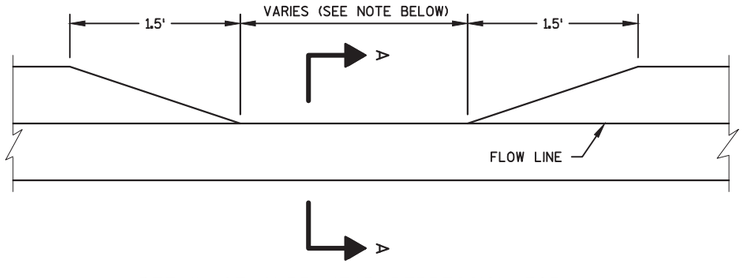
HEAVY DUTY SILT FENCE



ANCHORED INSTALLATION FOR DRY CONDITION

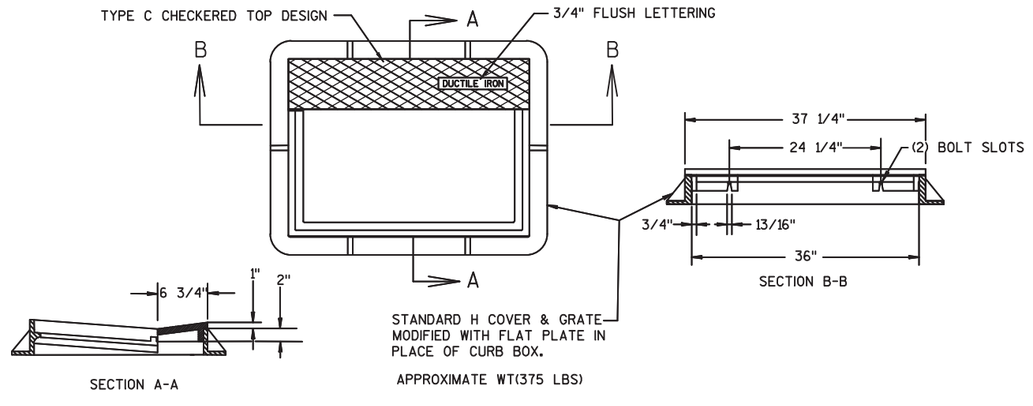


SECTION A-A

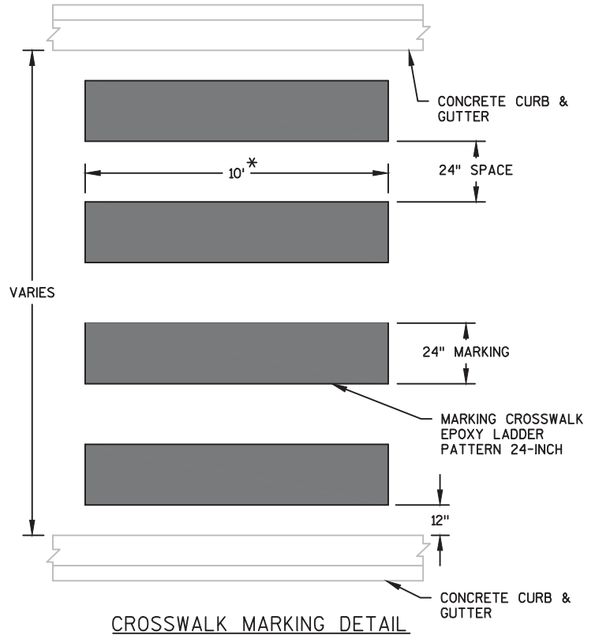


DETAIL OF CURB HEAD DEPRESSION FOR
PEDESTRIAN ACCESS OR DRAINAGE
STA 64+94 RT
STA 75+92 RT

NOTES
CURB OPENING AT STA 64+94 RT IS 2'
CURB OPENING AT STA 75+92 RT IS 5' MIN



INLET COVER TYPE HD
(WITH MOUNTABLE CURB PLATE)
FOR PLACEMENT IN DRIVEWAYS
OR AREAS WITH NO CURB HEAD
STA 4+91 RT
STA 50+47 LT



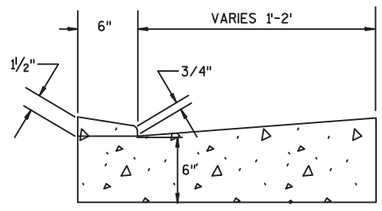
CROSSWALK MARKING DETAIL

STA 64+75 - STA 65+25, LT & RT (MOUNTAIN BAY TRAIL)
STA 1100+58, LT & RT (CTH B)

NOTES
PLACE MARKING LINES TO AVOID WHEEL PATHS

* CROSSWALK WALK WIDTH AT CTH B IS 6'

CROSSWALK IS ANGLED AT THE MOUNTAIN BAY TRAIL



CONCRETE CURB & GUTTER AND CONCRETE CURB WITH NO CURB HEAD / DRIVEWAY CURB HEAD DETAIL

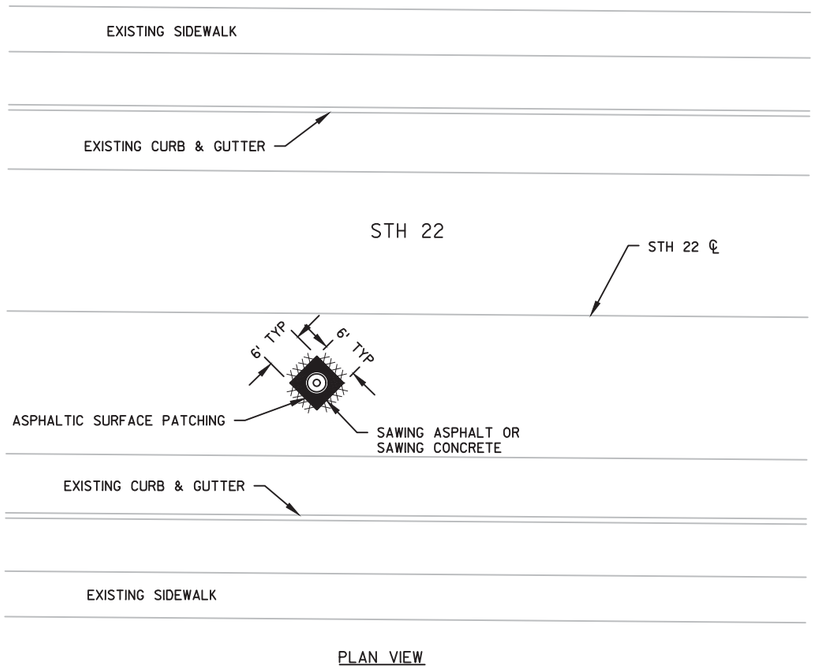
CONCRETE CURB & GUTTER FOR DRIVEWAYS TO BE PAID FOR AS CONCRETE CURB & GUTTER 18-INCH TYPE A, CONCRETE CURB & GUTTER 18-INCH TYPE D, CONCRETE CURB & GUTTER 30-INCH TYPE A, CONCRETE CURB & GUTTER 30-INCH TYPE D, CONCRETE CURB & GUTTER HES 30-INCH TYPE D OR CONCRETE CURB (FOR DETAILS NOT SHOWN, SEE "SDD CONCRETE CURB, CONCRETE CURB & GUTTER" AND "CONCRETE CURB TIES AND CURB & GUTTER APPLICATIONS")

RUNOFF COEFFICIENT TABLE

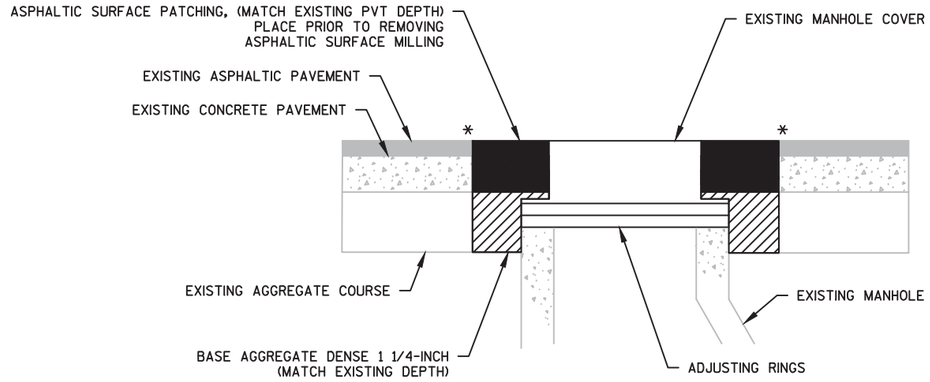
	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP-TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE-TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA = 23.2 ACRES (9180-23-71), 22.5 ACRES (9180-23-72)
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 1.5 ACRES (9180-23-71), 1.2 ACRES (9180-23-72)

2

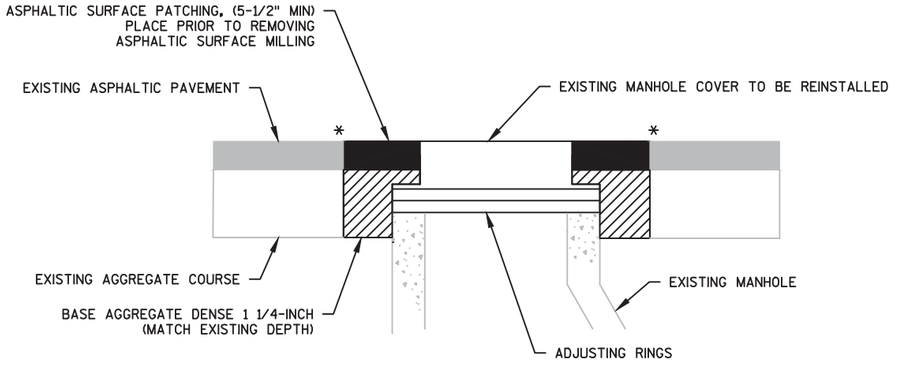


PLAN VIEW



ADJUSTING MANHOLE COVERS AND ADJUSTING SANITARY SEWER MANHOLE COVERS IN CONCRETE PAVEMENT OVERLAID WITH ASPHALT

STA 1+85 - STA 143+50



ADJUSTING MANHOLE COVERS AND ADJUSTING SANITARY SEWER MANHOLE COVERS IN ASPHALTIC PAVEMENT

STA 1089+67 - STA 1121+37

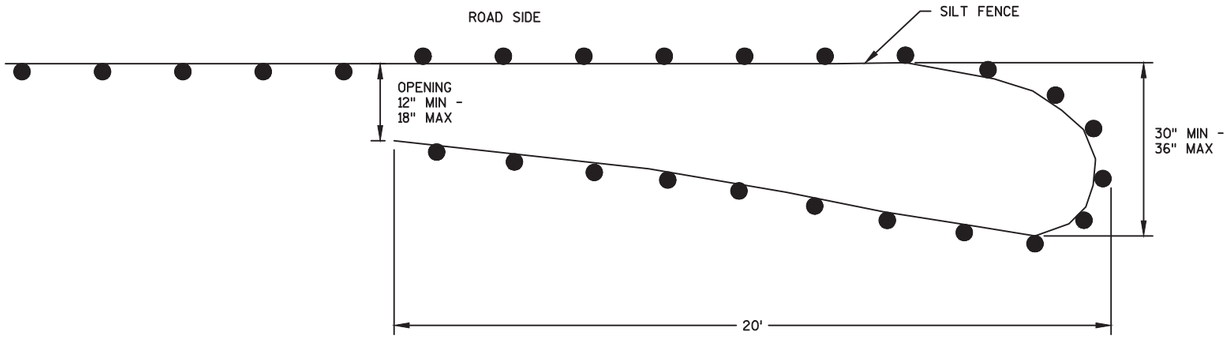
ADJUSTING MANHOLE COVERS AND ADJUSTING SANITARY SEWER MANHOLE COVERS DETAIL

STORM SEWER AND SANITARY SEWER MANHOLES

LEGEND

* SAWCUT REQ'D

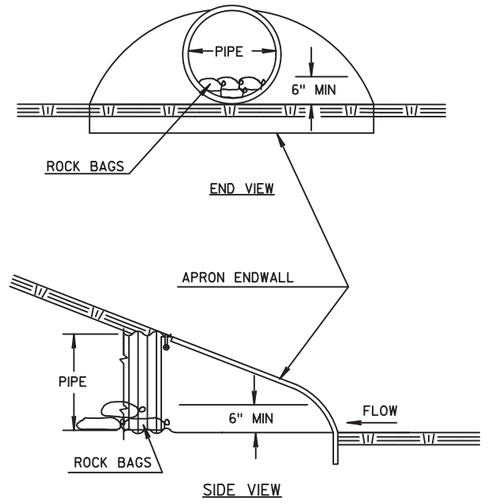
PROJECT NO:9180-23-71/72	HWY:STH 22	COUNTY:SHAWANO	CONSTRUCTION DETAILS	SHEET 26	E



NOTES
SILT FENCE POSTS FOR THE SMALL ANIMAL TURN-AROUND SHOULD BE ON THE OUTSIDE OF THE TURN-AROUND. AND TRENCHED IN ACCORDING TO SILT FENCE REQUIREMENTS.

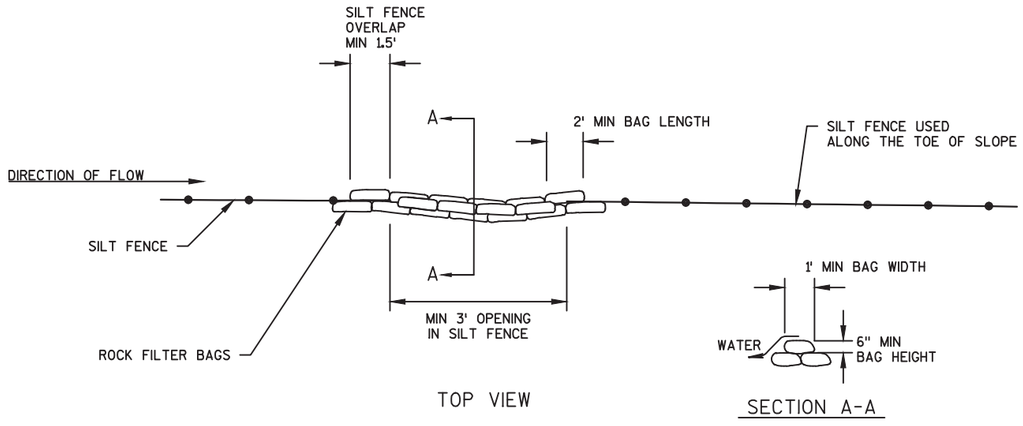
SEE EROSION CONTROL PLANS FOR ADDITIONAL INFORMATION.

TEMPORARY SMALL ANIMAL TURN-AROUND



CULVERT PIPE CHECKS DETAIL

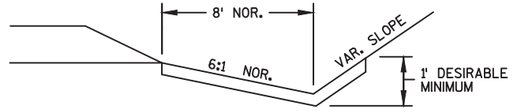
INSTALL ON INLET END
EACH ROCK BAG PAID AS CULVERT PIPE CHECKS



ROCK BAGS USED FOR SILT FENCE RELIEF

PAID AS ROCK BAGS

NOTE
SEE EROSION CONTROL PLANS
FOR ADDITIONAL INFORMATION.



EROSION MAT DETAIL FOR DITCHES

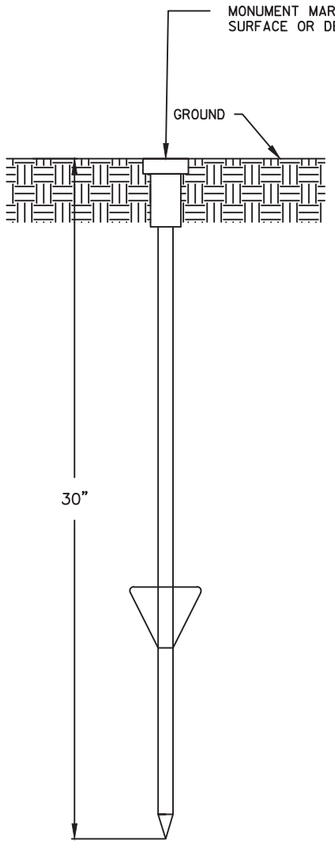
PROJECT NO:9180-23-71/72	HWY:STH 22	COUNTY:SHAWANO	CONSTRUCTION DETAILS	SHEET 27	E

2



WIS DOT MONUMENT CAP MARKER LOGO (SSDR130)

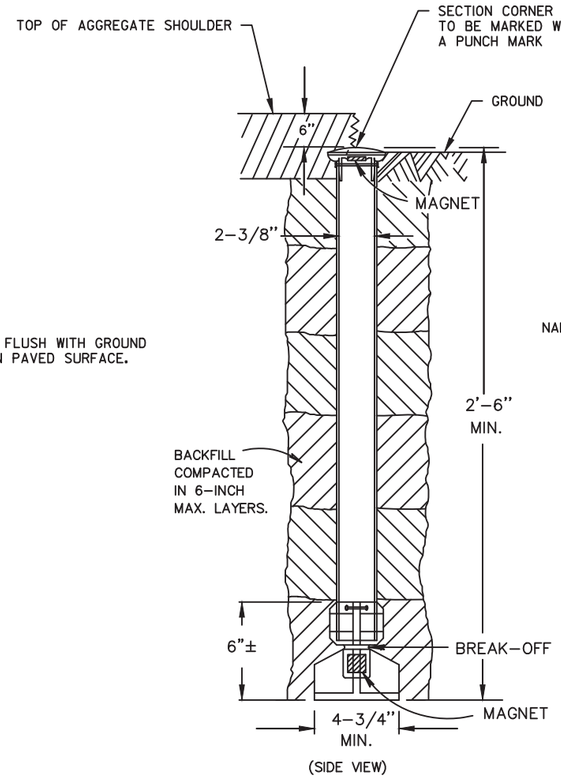
CONTRACTOR TO ORDER LANDMARK REFERENCE MONUMENTS WITH THE ABOVE STAMPING



(FRONT VIEW)

BERNSTEN DRIVABLE MONUMENT SSDR130

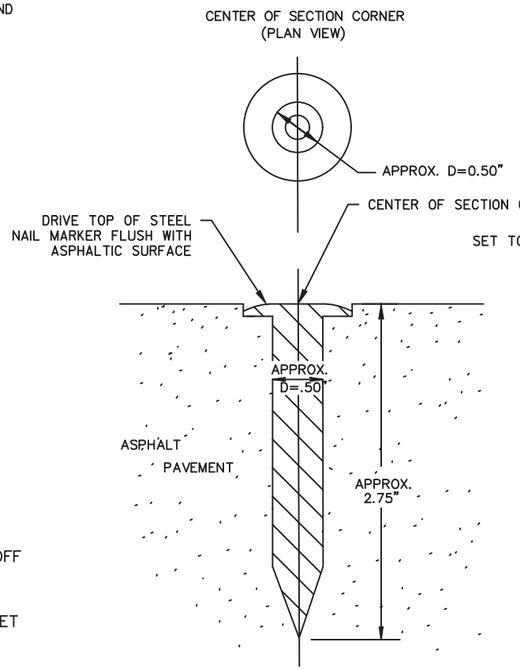
LANDMARK REFERENCE MONUMENT (TIES ONLY)



(SIDE VIEW)

OUTSIDE OF PAVEMENT

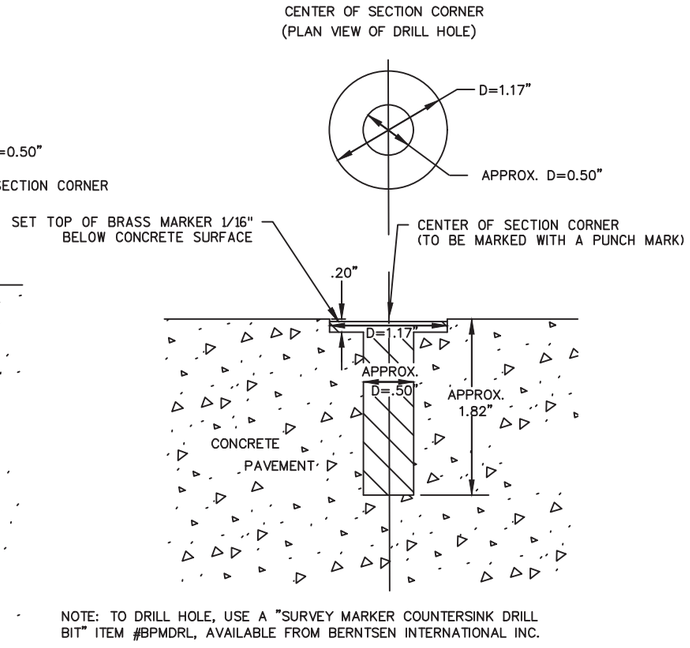
BERNTSEN A1BR30 ALUMINUM BREAK-OFF MONUMENT



(SIDE VIEW)

IN ASPHALTIC PAVEMENT

BERNTSEN SNM1 STEEL NAIL MARKER



NOTE: TO DRILL HOLE, USE A "SURVEY MARKER COUNTERSINK DRILL BIT" ITEM #BPMDRL, AVAILABLE FROM BERNTSEN INTERNATIONAL INC.

(SIDE VIEW OF DRILL HOLE)

IN CONCRETE PAVEMENT

BERNTSEN BP – 1 BRASS MARKER WITH ANCHOR PLUG

SECTION CORNER MONUMENTS

GENERAL NOTES

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

LOCATE LANDMARK REFERENCE MONUMENTS OUTSIDE THE CONSTRUCTION LIMITS AND WITHIN WISDOT RIGHT OF WAY. LOCATION TO BE APPROVED BY THE ENGINEER.

CONTRACTOR WILL SUPPLY ALL REQUIRED SURVEY MONUMENTS.

SECTION CORNER MONUMENT AND LANDMARK REFERENCE MONUMENT DETAIL

2

NOTES

TEMPORARY CHANNEL AND TEMPORARY CULVERT PIPES MUST BE CAPABLE OF CARRYING THE Q5 FLOW, WITH A FREEBOARD OF 0.5-FEET DURING THE CONSTRUCTION PERIOD AND MAINTAIN A SUITABLE DEPTH AND VELOCITY TO ALLOW THE PASSAGE OF MIGRATING FISH AND AQUATIC SPECIES. FISH THAT BECOME STRANDED IN DEWATERED AREAS OR TEMPORARY CHANNELS SHOULD BE CAPTURED AND RETURNED TO THE ACTIVE CHANNEL IMMEDIATELY.

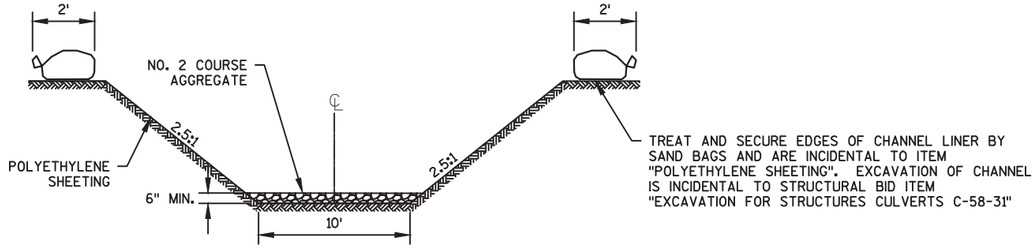
WORK FOR THE TEMPORARY BYPASS CHANNEL AND ANY TEMPORARY SANDBAGS USED AT THE BOX CULVERT OR OTHER DIVERSION TECHNIQUES IMPLEMENTED WILL BE PAID UNDER THE FOLLOWING BID ITEMS:
- ROADWAY BID ITEMS: "BACKFILL COURSE AGGREGATE SIZE NO. 2" AND "POLYETHYLENE SHEETING"
- STRUCTURE BID ITEMS: EXCAVATION OF BYPASS CHANNEL PAID UNDER "EXCAVATION FOR STRUCTURES CULVERTS C-58-31". BACKFILL OF BYPASS CHANNEL IS PAID UNDER STRUCTURAL BID ITEM "REMOVING OLD STRUCTURE WITH MINIMAL DEBRIS STATION 136+25.00". BACKFILL NEXT TO THE NEW CULVERT IS PAID UNDER "BACKFILL STRUCTURE TYPE B", SEE STRUCTURE PLANS FOR ADDITIONAL DETAILS.

THE TOP OF SANDBAGS IS SHOWN AT ELEVATION 809.5(±) WHICH IS THE STREAM ELEVATION RESULTING FROM A 5-YEAR RAINFALL EVENT PLUS 0.5'. IT IS ASSUMED THE WORK ZONE WILL BE INUNDATED FOR RAINFALL EVENTS EXCEEDING 5 YEARS. CONTRACTOR MAY TO CHOOSE TO SET THE TOP OF SANDBAGS AT AN ELEVATION GREATER THAN 809.5(±) DEPENDING ON THEIR BEST PRACTICES AND AT THE DIRECTION OF THE ENGINEER.

SUBMIT A WATER DIVERSION PLAN TO THE ENGINEER IF CONTRACTOR CHOOSES A DIFFERENT METHOD THAN WHAT IS SHOWN IN THE SCHEMATIC.

C-58-31
Q5 = 115 CFS
Q5 ELEVATION 809(±)

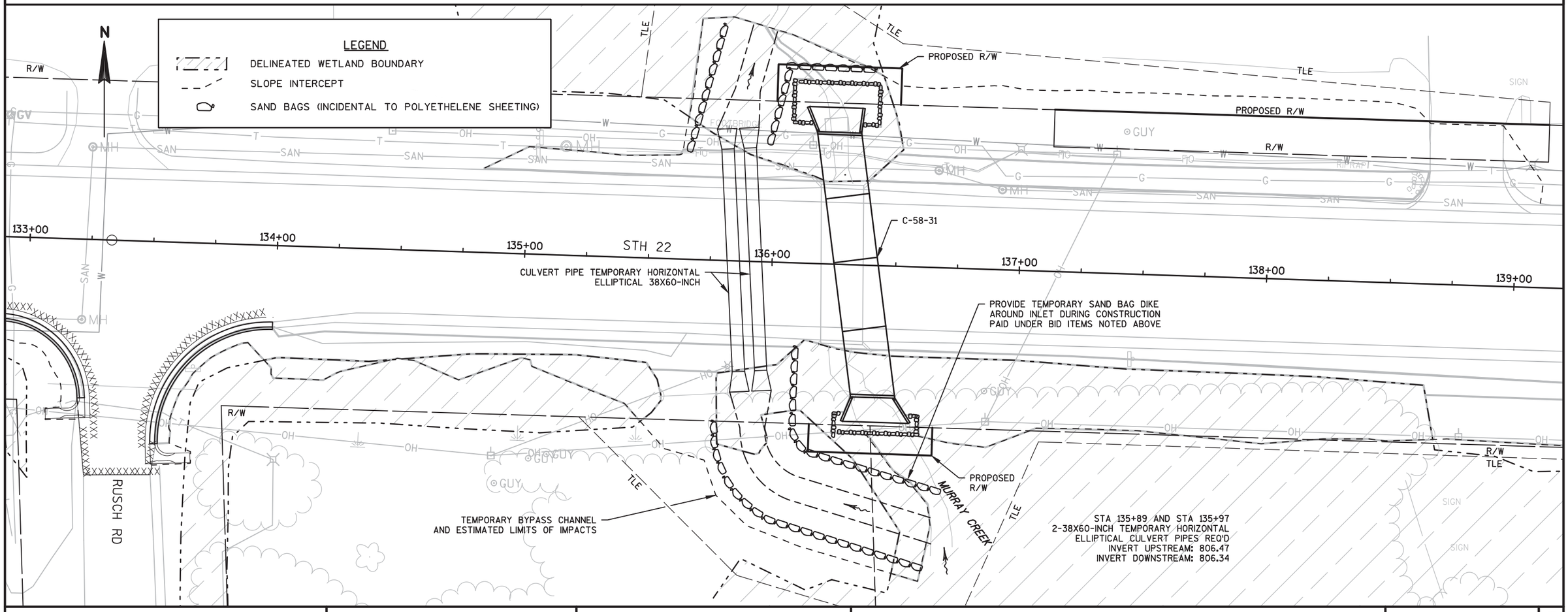
USE AVAILABLE EROSION CONTROL ITEMS IN THE CONTRACT TO IMPLEMENT ANY ADDITIONAL EROSION CONTROL ITEMS NECESSARY TO STABILIZE THE SITE DURING CONSTRUCTION OF THE BOX CULVERT.



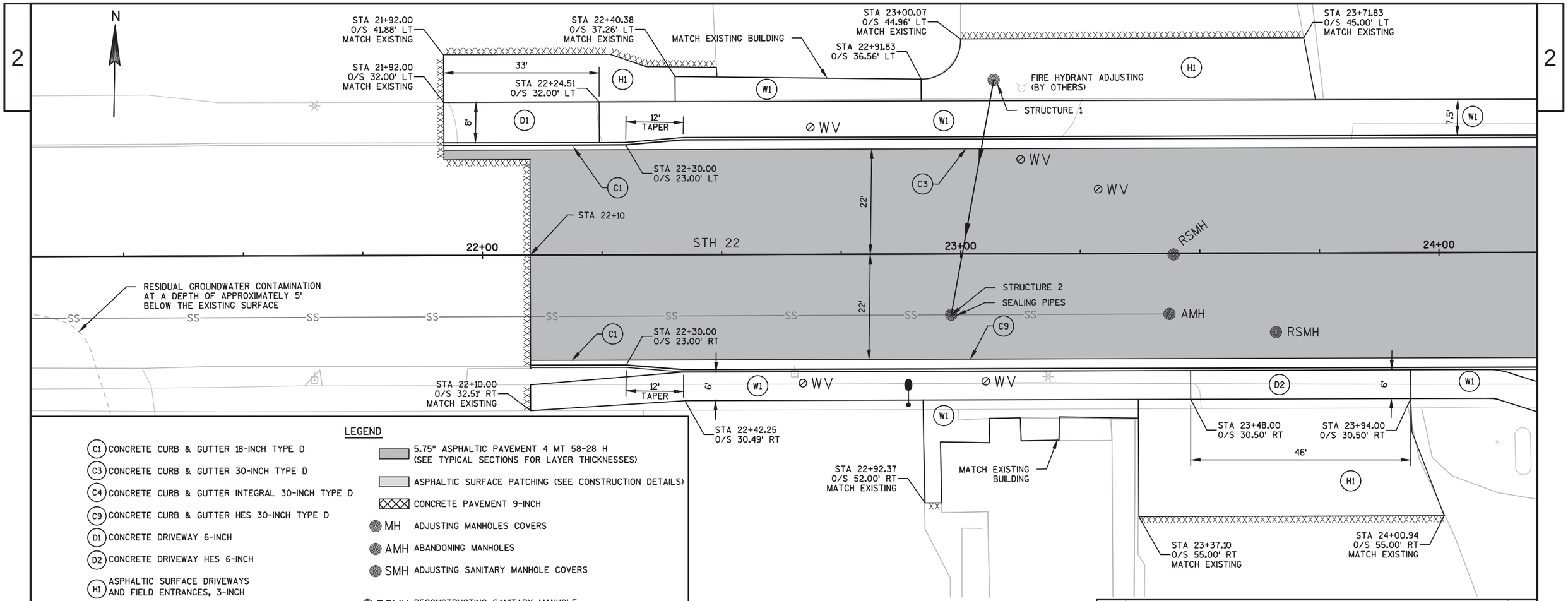
TYPICAL SECTION OF TEMPORARY BYPASS CHANNEL

USE CLASS IV CULVERT PIPE FOR TEMPORARY PIPE DUE TO MINIMAL COVER DEPTH.

USE TWO 38X60-INCH HORIZONTAL ELLIPTICAL REINFORCED CONCRETE CULVERT PIPES. IN LIEU OF TWO 38X60-INCH HORIZONTAL ELLIPTICAL REINFORCED CONCRETE CULVERT PIPES, TWO 64X43-INCH CORRUGATED STEEL PIPE ARCH CULVERT PIPES OR A COMBINATION OF CULVERT PIPES WITH AN OPENING AREA OF A MINIMUM OF 24.82 SQUARE FEET MAY BE USED. PAID FOR AS CULVERT PIPE TEMPORARY HORIZONTAL ELLIPTICAL 38X60-INCH.



PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	CONSTRUCTION DETAILS	SHEET 29	E



LEGEND

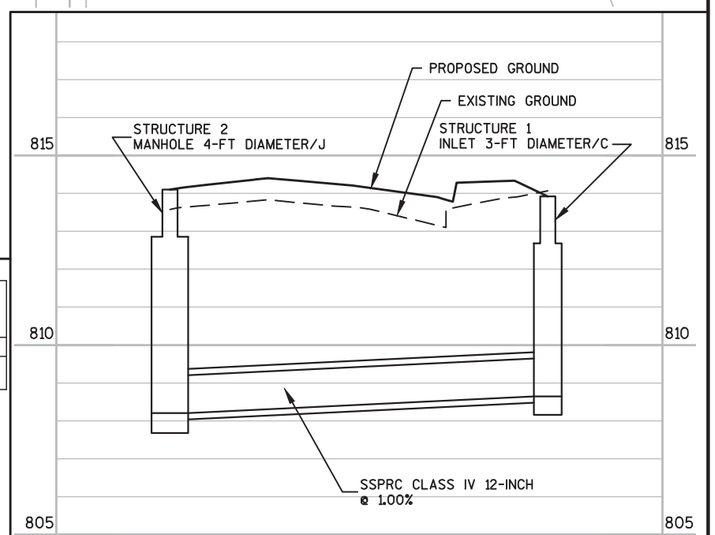
- C1 CONCRETE CURB & GUTTER 18-INCH TYPE D
- C3 CONCRETE CURB & GUTTER 30-INCH TYPE D
- C4 CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE D
- C9 CONCRETE CURB & GUTTER HES 30-INCH TYPE D
- D1 CONCRETE DRIVEWAY 6-INCH
- D2 CONCRETE DRIVEWAY HES 6-INCH
- H1 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- W1 CONCRETE SIDEWALK 6-INCH

RR CROSSING SIGNAL AND GATE ARM (INSTALLED BY OTHERS)

XXXXXX SAWING

ADJUSTING LIGHT POLE (BY OTHERS)

- 5.75" ASPHALTIC PAVEMENT 4 MT 58-28 H (SEE TYPICAL SECTIONS FOR LAYER THICKNESSES)
- ASPHALTIC SURFACE PATCHING (SEE CONSTRUCTION DETAILS)
- CONCRETE PAVEMENT 9-INCH
- MH ADJUSTING MANHOLES COVERS
- AMH ABANDONING MANHOLES
- SMH ADJUSTING SANITARY MANHOLE COVERS
- RSMH RECONSTRUCTING SANITARY MANHOLE
- ADJUSTING INLET COVERS
- ⊘WV ADJUSTING WATER VALVE BOXES
- CURB RAMP DETECTABLE WARNING FIELD (NATURAL PATINA)
- CURB RAMP DETECTABLE WARNING FIELD RADIAL (NATURAL PATINA)



STORM SEWER SCHEDULE

STRUCT NO.	STATION	(1) OFFSET	C-C (FT)	TO STRUCTURE	INLET OR MANHOLE TYPE / COVER	(2) RIM/ GRATE ELEV.	(3) T.O.S. ELEV.	(4) DEPTH (FT)	DISCHARGE PIPE CLASS	SIZE (IN)	INLET ELEV.	DISCHARGE ELEV.	(5) LENGTH (FT)	(6) SLOPE (%)	REMARKS
1	23+07	36.30' LT	49.9	2	INLET 3-FT DIAMETER / C	813.92	812.67	4.01	IV	12	808.66	808.18	48	1.00	
2	22+98	12.70' RT	--	--	MANHOLE 4-FT DIAMETER / J	814.10	812.85	4.67	--	12	808.18	--	--	--	MATCH EXISTING STORM SEWER PIPE INVERT.

(1) STRUCTURE OFFSET IS TO CENTER OF STRUCTURE.
(2) RIM ELEVATION FOR MANHOLES AND INLETS ARE TO CENTER OF CASTING.
(3) TOP OF STRUCTURE ELEVATION (T.O.S.) IS DETERMINED BY SUBTRACTING CASTING HEIGHT AND 6-INCHES, FOR ADJUSTMENT, FROM RIM ELEVATION. TYPE J MANHOLE CASTINGS AND TYPE C INLET CASTINGS ARE 9-INCHES IN HEIGHT.
(4) DEPTH OF STRUCTURE MEASURED BY SUBTRACTING DISCHARGE ELEVATION FROM T.O.S.
(5) PIPE LENGTH IS MEASURED FROM INSIDE WALL OF STRUCTURE TO INSIDE WALL OF STRUCTURE, USED FOR SLOPE CALCULATION ONLY.
(6) PIPE SLOPE IS CALCULATED USING PIPE LENGTH BETWEEN THE INSIDE WALL OF STRUCTURE TO THE INSIDE WALL OF STRUCTURE.

2

STA 24+19.81
0/S 62.00' LT

FINISH AREA
AROUND SIGNAL
WITH BAD 3/4-INCH

STA 24+32.51
0/S 37.63' LT

STA 24+40.46
0/S 40.64' LT

R30'

STA 24+90.81
0/S 60.50' LT

STA 24+83.91
0/S 38.00' LT
MATCH EXISTING

MATCH EXISTING SIGN BASE

STA 26+61.40
0/S 38.00' LT
MATCH EXISTING

N ELLIS ST

STA 24+28.66
0/S 22' LT

STA 24+62.25
0/S 24.50' LT

STA 24+56.25
0/S 22' LT

STA 25+24.00
0/S 30.50' LT

STA 25+31.00
0/S 30.50' LT

STA 25+70.00
0/S 30.50' LT

STA 26+40

PLACE DETECTABLE WARNING FIELDS IN
A LOCATION TO AVOID THE WATER VALVE

24+00 25+00 STH 22 26+00 27+00

STA 24+43.31
0/S 18.55' RT

STA 24+46.32
0/S 22' RT

STA 24+73.87
0/S 22' RT

STA 25+39.25
0/S 30.50' RT

STA 26+15.04
0/S 30.50' RT

STA 26+39.95
0/S 32.64' RT
MATCH EXISTING

STA 26+40.00
0/S 40.00' RT
MATCH EXISTING

STA 25+43.57
0/S 40.00' RT
MATCH EXISTING

STA 24+09.97
0/S 40.50' RT

STA 24+61.25
0/S 38.31' RT

STA 24+78.67
0/S 39.50' RT

STA 24+69.20
0/S 35.31' RT

WCL RAILROAD

RESIDUAL GROUNDWATER CONTAMINATION AT A DEPTH OF
APPROXIMATELY 5' TO 8' BELOW THE EXISTING SURFACE

N

LEGEND

- C1 CONCRETE CURB & GUTTER 18-INCH TYPE D
- C3 CONCRETE CURB & GUTTER 30-INCH TYPE D
- C4 CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE D
- C9 CONCRETE CURB & GUTTER HES 30-INCH TYPE D
- D1 CONCRETE DRIVEWAY 6-INCH
- D2 CONCRETE DRIVEWAY HES 6-INCH
- H1 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- W1 CONCRETE SIDEWALK 6-INCH
- RR CROSSING SIGNAL AND GATE ARM (INSTALLED BY OTHERS)
- XXXXXX SAWING
- ADJUSTING LIGHT POLE (BY OTHERS)
- 5.75" ASPHALTIC PAVEMENT 4 MT 58-28 H (SEE TYPICAL SECTIONS FOR LAYER THICKNESSES)
- ASPHALTIC SURFACE PATCHING (SEE CONSTRUCTION DETAILS)
- CONCRETE PAVEMENT 9-INCH
- MH ADJUSTING MANHOLES COVERS
- AMH ABANDONING MANHOLES
- SMH ADJUSTING SANITARY MANHOLE COVERS
- RSMH RECONSTRUCTING SANITARY MANHOLE
- ADJUSTING INLET COVERS
- WV ADJUSTING WATER VALVE BOXES
- CURB RAMP DETECTABLE WARNING FIELD (NATURAL PATINA)
- CURB RAMP DETECTABLE WARNING FIELD RADIAL (NATURAL PATINA)

PROJECT NO:9180-23-72	HWY:STH 22	COUNTY:SHAWANO	PAVING DETAILS - RAILROAD CROSSING	SHEET 31	E

2

N

WCL RAILROAD

N ELLIS ST

RESIDUAL GROUNDWATER CONTAMINATION AT A DEPTH OF APPROXIMATELY 5' BELOW THE EXISTING SURFACE

RESIDUAL GROUNDWATER CONTAMINATION AT A DEPTH OF APPROXIMATELY 5' TO 8' BELOW THE EXISTING SURFACE

STH 22

22+00 STA 22+10 23+00 24+00 25+00 26+00 STA 26+40 27+00

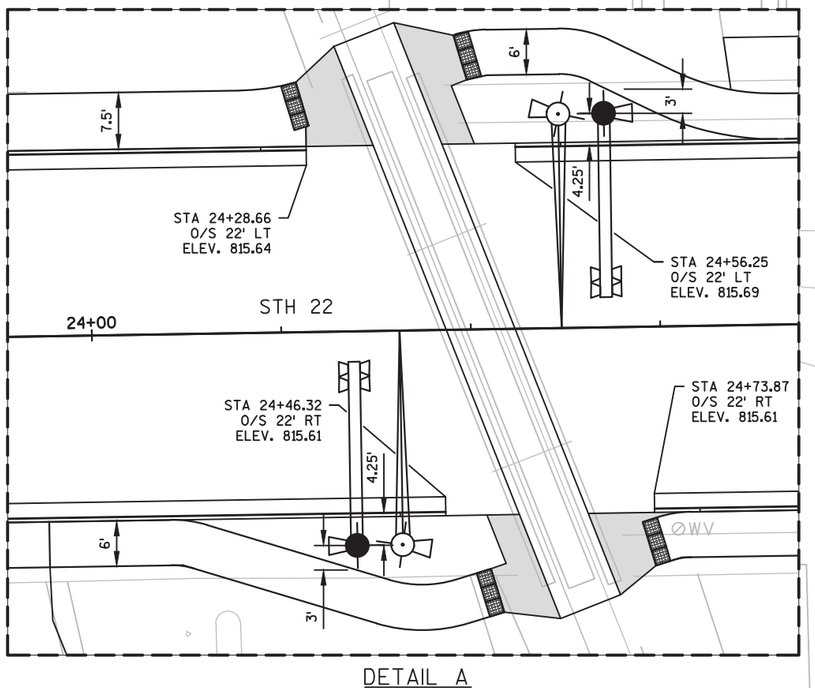
813.06 813.12 813.29 813.53 813.84 814.21 814.58 814.94 815.60 815.32 815.65 815.40 815.08 814.76 814.44 814.15 813.88 813.77

813.05 813.12 813.29 813.53 813.84 814.21 814.58 814.94 815.30 815.57 815.61 815.40 815.08 814.77 814.48 814.20 813.96 813.84

7.5' 22' 6' 5' 9'

SEE DETAIL "A" FOR SIDEWALK DETAILS

NOTE
PAVING GRADES SHOWN EVERY 25' UNLESS OTHERWISE NOTED



DETAIL A

PROJECT NO:9180-23-72	HWY:STH 22	COUNTY:SHAWANO	PAVING DETAILS - RR CROSSING OVERVIEW	SHEET 32	E

2

N

RESIDUAL GROUNDWATER AND SOIL CONTAMINATION AT A DEPTH OF APPROXIMATELY 6' TO 8' BELOW THE EXISTING SURFACE

MATCH EXISTING LIGHT POLE

GREEN BAY CT

STA 35+99.95
O/S 36.50' LT
MATCH EXISTING

STA 36+15.09
O/S 50.50' LT
MATCH EXISTING

STA 37+18.00
O/S 46.50' LT
MATCH EXISTING

STA 37+18.00
O/S 36.43' LT
MATCH EXISTING

STA 37+21.00
O/S 37.00' LT
ELEV. 813.27

STA 38+36.26
O/S 37.00' LT
ELEV. 813.64

STA 39+38.00
O/S 46.50' LT
MATCH EXISTING

STA 39+38.00
O/S 36.71' LT
MATCH EXISTING

STA 40+15.82
O/S 42.38' LT
MATCH EXISTING

STA 40+11.53
O/S 36.50' LT
MATCH EXISTING

STA 35+94.77
O/S 28.04' LT
MATCH EXISTING

R20'

5'

9"

22'

+68

+57

36'

+99

77'

+97

36'

REMOVING CONCRETE BASES

35+00 36+00 37+00 STH 22 38+00 39+00 40+00 41+00

SIGN

LEGEND

- ASPHALTIC SURFACE PATCHING (SEE CONSTRUCTION DETAIL)
- CONCRETE PAVEMENT 9-INCH
- ADJUSTING INLET COVERS
- C1 CONCRETE CURB & GUTTER 18-INCH TYPE A
- C2 CONCRETE CURB & GUTTER 18-INCH TYPE D
- C3 CONCRETE CURB & GUTTER 30-INCH TYPE A
- C4 CONCRETE CURB & GUTTER 30-INCH TYPE D
- C5 CONCRETE CURB & GUTTER INTERGRAL 30-INCH TYPE D
- C6 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- C7 CONCRETE CURB PEDESTRIAN
- D1 CONCRETE DRIVEWAY 6-INCH
- D2 CONCRETE DRIVEWAY HES 6-INCH
- H1 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- W1 CONCRETE SIDEWALK 6-INCH
- Y1 MILL AND OVERLAY 1.75-INCH, HMA PAVEMENT 4 MT 58-28 H
- CURB RAMP DETECTABLE WARNING FIELD (NATURAL PATINA)
- CURB RAMP DETECTABLE WARNING FIELD RADIAL (NATURAL PATINA)
- XXXXX SAWING

NOTES
SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION AT THE CURB RAMP LOCATIONS.

SEE SECTION 5 PLAN SHEETS FOR LOCATIONS OF ADJUSTING MANHOLES, ADJUSTING SANITARY MANHOLES, AND ADJUSTING WATER VALVE BOXES.

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	PAVING DETAILS - SIDEWALK IMPROVEMENTS	SHEET 33	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\021202-PD.DWG
LAYOUT NAME - ****
PLOT DATE : 10/11/2018 1:52 PM PLOT BY : DREW NELSON PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

CANOPY

POST

POST POST POST

POST

SIGN

SIGN

SIGN

POST

POST

WM

ARLINGTON ST

STATUE

W1

C4

GV GV GV GV

WV WV WV WV

MH MH MH MH

46+00 47+00 48+00 49+00 STH 22 50+00 51+00 52+00

MATCH EXISTING LIGHT POLE

3"

H1 Y1 D2

5"

+84

STA 48+78.56
O/S 32.76' RT
MATCH EXISTING

STA 48+78.56
O/S 34.76' RT
MATCH EXISTING

STA 49+71.52
O/S 34.49' RT
MATCH EXISTING

STA 49+78.73
O/S 37.47' RT
MATCH EXISTING

STA 50+23.97
O/S 32.31' RT
MATCH EXISTING

STA 50+20.95
O/S 37.35' RT
MATCH EXISTING

37'

W1 H1

SIGN MH

SIGN

W

LEGEND

- ASPHALTIC SURFACE PATCHING (SEE CONSTRUCTION DETAIL)
- CONCRETE PAVEMENT 9-INCH
- ADJUSTING INLET COVERS
- (C1) CONCRETE CURB & GUTTER 18-INCH TYPE A
- (C2) CONCRETE CURB & GUTTER 18-INCH TYPE D
- (C3) CONCRETE CURB & GUTTER 30-INCH TYPE A
- (C4) CONCRETE CURB & GUTTER 30-INCH TYPE D
- (C5) CONCRETE CURB & GUTTER INTERGRAL 30-INCH TYPE D
- (C6) CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (C7) CONCRETE CURB PEDESTRIAN
- (D1) CONCRETE DRIVEWAY 6-INCH
- (D2) CONCRETE DRIVEWAY HES 6-INCH
- (H1) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (W1) CONCRETE SIDEWALK 6-INCH
- (Y1) MILL AND OVERLAY 1.75-INCH, HMA PAVEMENT 4 MT 58-28 H
- CURB RAMP DETECTABLE WARNING FIELD (NATURAL PATINA)
- CURB RAMP DETECTABLE WARNING FIELD RADIAL (NATURAL PATINA)
- XXXXX SAWING

NOTES
SEE CURB RAMP DETAILS FOR ADDITIONAL INFORMATION AT THE CURB RAMP LOCATIONS.

SEE SECTION 5 PLAN SHEETS FOR LOCATIONS OF ADJUSTING MANHOLES, ADJUSTING SANITARY MANHOLES, AND ADJUSTING WATER VALVE BOXES.

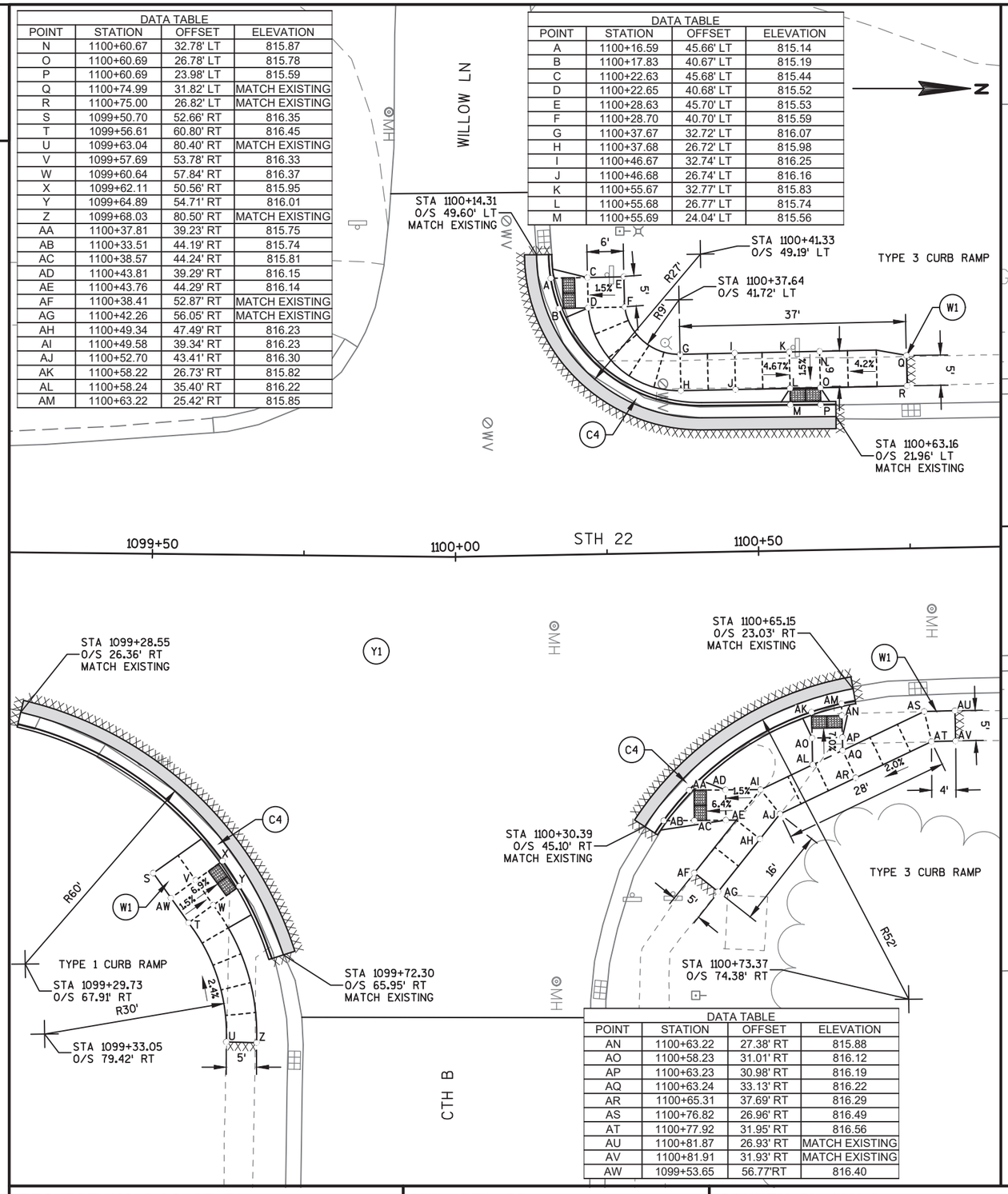
PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	PAVING DETAILS - SIDEWALK IMPROVEMENTS	SHEET 34	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\021202-PD.DWG
LAYOUT NAME - ****

PLOT DATE : 10/11/2018 1:52 PM PLOT BY : DREW NELSON PLOT NAME : PLOT SCALE : **********

WISDOT/CADDS SHEET 42

DATA TABLE			
POINT	STATION	OFFSET	ELEVATION
N	1100+60.67	32.78' LT	815.87
O	1100+60.69	26.78' LT	815.78
P	1100+60.69	23.98' LT	815.59
Q	1100+74.99	31.82' LT	MATCH EXISTING
R	1100+75.00	26.82' LT	MATCH EXISTING
S	1099+50.70	52.66' RT	816.35
T	1099+56.61	60.80' RT	816.45
U	1099+63.04	80.40' RT	MATCH EXISTING
V	1099+57.69	53.78' RT	816.33
W	1099+60.64	57.84' RT	816.37
X	1099+62.11	50.56' RT	815.95
Y	1099+64.89	54.71' RT	816.01
Z	1099+68.03	80.50' RT	MATCH EXISTING
AA	1100+37.81	39.23' RT	815.75
AB	1100+33.51	44.19' RT	815.74
AC	1100+38.57	44.24' RT	815.81
AD	1100+43.81	39.29' RT	816.15
AE	1100+43.76	44.29' RT	816.14
AF	1100+38.41	52.87' RT	MATCH EXISTING
AG	1100+42.26	56.05' RT	MATCH EXISTING
AH	1100+49.34	47.49' RT	816.23
AI	1100+49.58	39.34' RT	816.23
AJ	1100+52.70	43.41' RT	816.30
AK	1100+58.22	26.73' RT	815.82
AL	1100+58.24	35.40' RT	816.22
AM	1100+63.22	25.42' RT	815.85

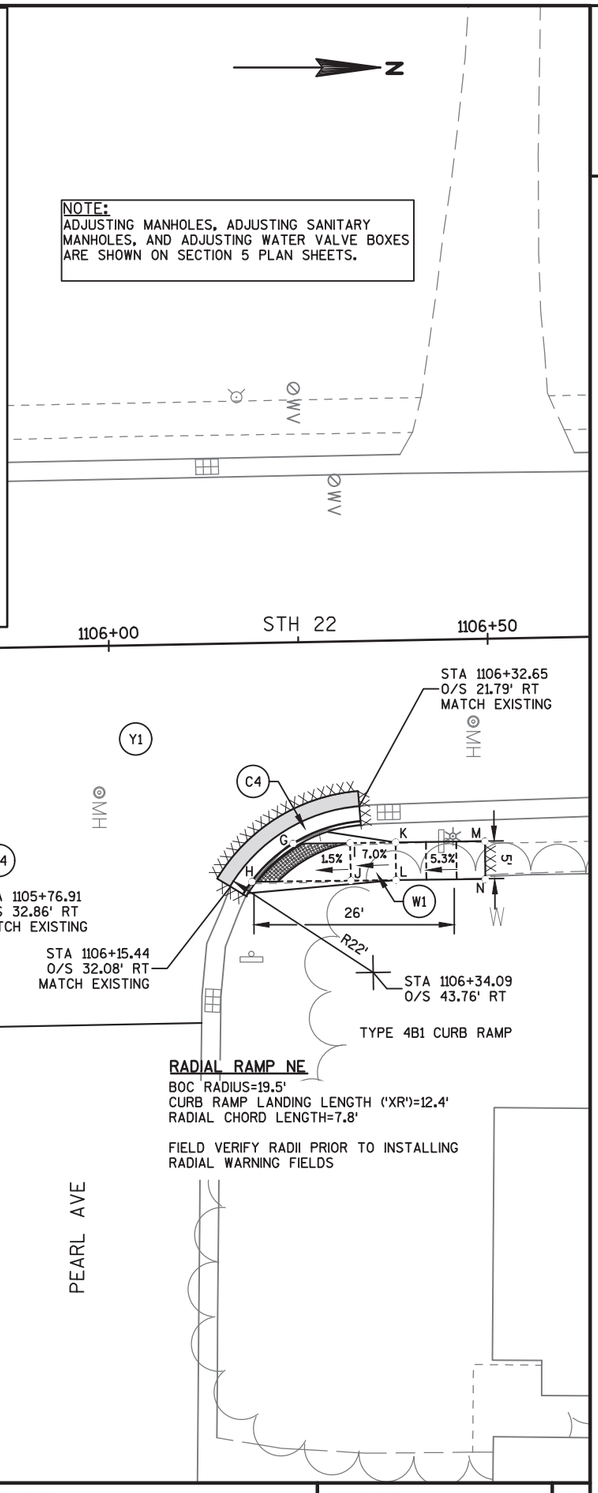


DATA TABLE			
POINT	STATION	OFFSET	ELEVATION
A	1100+16.59	45.66' LT	815.14
B	1100+17.83	40.67' LT	815.19
C	1100+22.63	45.68' LT	815.44
D	1100+22.65	40.68' LT	815.52
E	1100+28.63	45.70' LT	815.53
F	1100+28.70	40.70' LT	815.59
G	1100+37.67	32.72' LT	816.07
H	1100+37.68	26.72' LT	815.98
I	1100+46.67	32.74' LT	816.25
J	1100+46.68	26.74' LT	816.16
K	1100+55.67	32.77' LT	815.83
L	1100+55.68	26.77' LT	815.74
M	1100+55.69	24.04' LT	815.56

LEGEND

- ASPHALTIC SURFACE PATCHING (SEE CONSTRUCTION DETAIL)
- CONCRETE PAVEMENT 9-INCH
- ADJUSTING INLET COVERS
- (C1) CONCRETE CURB & GUTTER 18-INCH TYPE A
- (C2) CONCRETE CURB & GUTTER 18-INCH TYPE D
- (C3) CONCRETE CURB & GUTTER 30-INCH TYPE A
- (C4) CONCRETE CURB & GUTTER 30-INCH TYPE D
- (C5) CONCRETE CURB & GUTTER INTERGRAL 30-INCH TYPE D
- (C6) CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (C7) CONCRETE CURB PEDESTRIAN
- (C8) CONCRETE CURB TYPE A
- (D1) CONCRETE DRIVEWAY 6-INCH
- (H1) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (W1) CONCRETE SIDEWALK 6-INCH
- (Y1) MILL AND OVERLAY 1.75-INCH, HMA PAVEMENT 4 MT 58-28 H
- CURB RAMP DETECTABLE WARNING FIELD (NATURAL PATINA)
- CURB RAMP DETECTABLE WARNING FIELD RADIAL (NATURAL PATINA)
- XXXXX SAWING

NOTE:
ADJUSTING MANHOLES, ADJUSTING SANITARY MANHOLES, AND ADJUSTING WATER VALVE BOXES ARE SHOWN ON SECTION 5 PLAN SHEETS.



DATA TABLE			
POINT	STATION	OFFSET	ELEVATION
AN	1100+63.22	27.38' RT	815.88
AO	1100+58.23	31.01' RT	816.12
AP	1100+63.23	30.98' RT	816.19
AQ	1100+63.24	33.13' RT	816.22
AR	1100+65.31	37.69' RT	816.29
AS	1100+76.82	26.96' RT	816.49
AT	1100+77.92	31.95' RT	816.56
AU	1100+81.87	26.93' RT	MATCH EXISTING
AV	1100+81.91	31.93' RT	MATCH EXISTING
AW	1099+53.65	56.77'RT	816.40

RADIAL RAMP SE
BOC RADIUS=18.5'
CURB RAMP LANDING LENGTH ('XR')=12.3'
RADIAL CHORD LENGTH=7.8'

FIELD VERIFY RADII PRIOR TO INSTALLING RADIAL WARNING FIELDS

DATA TABLE			
POINT	STATION	OFFSET	ELEVATION
A	1105+50.97	26.90' RT	MATCH EXISTING
B	1105+50.94	31.77' RT	MATCH EXISTING
C	1105+60.97	26.73' RT	822.50
D	1105+60.97	31.73' RT	822.58
E	1105+68.15	26.74' RT	822.40
F	1105+73.78	31.73' RT	822.54
G	1106+23.84	26.57' RT	822.84
H	1106+18.30	31.48' RT	822.76
I	1106+31.35	26.62' RT	822.90
J	1106+31.36	31.58' RT	822.96
K	1106+37.35	26.65' RT	823.31
L	1106+37.32	31.62' RT	823.38
M	1106+49.15	26.74' RT	MATCH EXISTING
N	1106+49.11	31.73 RT	MATCH EXISTING

RADIAL RAMP NE
BOC RADIUS=19.5'
CURB RAMP LANDING LENGTH ('XR')=12.4'
RADIAL CHORD LENGTH=7.8'

FIELD VERIFY RADII PRIOR TO INSTALLING RADIAL WARNING FIELDS

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	PAVING DETAILS - CURB RAMP IMPROVEMENTS	SHEET 35	E

2

N

NOTES:
TAPER CONCRETE CURB & GUTTER BETWEEN STA. 1119+28.17 LT AND STA. 1119+48.60 LT FROM 30" WIDE TO 18" WIDE TO MATCH THE EXISTING CONDITIONS.

ADJUSTING MANHOLES, ADJUSTING SANITARY MANHOLES, AND ADJUSTING WATER VALVE BOXES ARE SHOWN ON SECTION 5 PLAN SHEETS.

SUNSET AVE

DATA TABLE			
POINT	STATION	OFFSET	ELEVATION
A	1119+20.17	33.51' LT	MATCH EXISTING
B	1119+20.21	28.53' LT	MATCH EXISTING
C	1119+26.35	33.49' LT	817.21
D	1119+26.39	28.47' LT	817.14
E	1119+32.35	33.45' LT	816.91
F	1119+32.39	28.44' LT	816.85
G	1119+45.75	33.41' LT	816.71
H	1119+40.02	28.44' LT	816.74
I	1119+79.17	32.45' LT	816.44
J	1119+86.08	27.56' LT	816.37
K	1119+95.44	32.71' LT	816.58
L	1119+95.52	27.71' LT	816.51
M	1120+01.44	32.80' LT	816.88
N	1120+01.52	27.80' LT	816.81
O	1120+06.89	32.73' LT	MATCH EXISTING
P	1120+06.96	28.18' LT	MATCH EXISTING

TYPE 4B1 CURB RAMP

STA 1119+28.90
O/S 45.69' LT

R22'

26'

A C E
B D F G H

2.1% 5.0% 1.5%

5'

W1 C4

STA 1119+28.17
O/S 23.68' LT
MATCH EXISTING

STA 1119+48.60
O/S 35.88' LT
MATCH EXISTING

STA 1119+77.30
O/S 33.00' LT
MATCH EXISTING

TYPE 4B1 CURB RAMP

STA 1119+96.28
O/S 49.28' LT

R25'

28'

I K M O
J L N P

1.5% 4.8% 2.0%

5'

C2 W1

STA 1119+92.38
O/S 24.57' LT
MATCH EXISTING

1119+00 1119+50 STH 22 1120+00

Y1

HWY

W

W

RADIAL RAMP SW
BOC RADIUS=19.5'
CURB RAMP LANDING LENGTH ('XR')=12.7'
RADIAL CHORD LENGTH=8.1'

FIELD VERIFY RADII PRIOR TO INSTALLING RADIAL WARNING FIELDS

RADIAL RAMP NW
BOC RADIUS=23.5'
CURB RAMP LANDING LENGTH ('XR')=15.6'
RADIAL CHORD LENGTH=9.1'

FIELD VERIFY RADII PRIOR TO INSTALLING RADIAL WARNING FIELDS

LEGEND

- ASPHALTIC SURFACE PATCHING (SEE CONSTRUCTION DETAIL)
- CONCRETE PAVEMENT 9-INCH
- ADJUSTING INLET COVERS
- C1 CONCRETE CURB & GUTTER 18-INCH TYPE A
- C2 CONCRETE CURB & GUTTER 18-INCH TYPE D
- C3 CONCRETE CURB & GUTTER 30-INCH TYPE A
- C4 CONCRETE CURB & GUTTER 30-INCH TYPE D
- C5 CONCRETE CURB & GUTTER INTERGRAL 30-INCH TYPE D
- C6 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- C7 CONCRETE CURB PEDESTRIAN
- C8 CONCRETE CURB TYPE A
- D1 CONCRETE DRIVEWAY 6-INCH
- H1 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- W1 CONCRETE SIDEWALK 6-INCH
- Y1 MILL AND OVERLAY 1.75-INCH, HMA PAVEMENT 4 MT 58-28 H
- CURB RAMP DETECTABLE WARNING FIELD (NATURAL PATINA)
- CURB RAMP DETECTABLE WARNING FIELD RADIAL (NATURAL PATINA)
- XXXXX SAWING

N

2

Y1

1120+50 STH 22 1121+00 1121+50

HWY

STA 1120+68.97
O/S 21.56' RT
MATCH EXISTING

W1 C4

STA 1120+80.07
O/S 32.42' RT
MATCH EXISTING

A C E G
B D F H

5.3% 6.0% 1.5%

5'

H1

R26'

26'

STA 1120+57.16
O/S 44.72' RT

TYPE 4B1 CURB RAMP

STA 1121+28.49
O/S 20.24' RT
MATCH EXISTING

11'

C4

STA 1121+16.65
O/S 31.29' RT
MATCH EXISTING

W1

I K M P
J L N Q

5.0% 2.7%

5'

8' R21'

C7

STA 1121+35.42
O/S 39.54' RT

TYPE 1 CURB RAMP

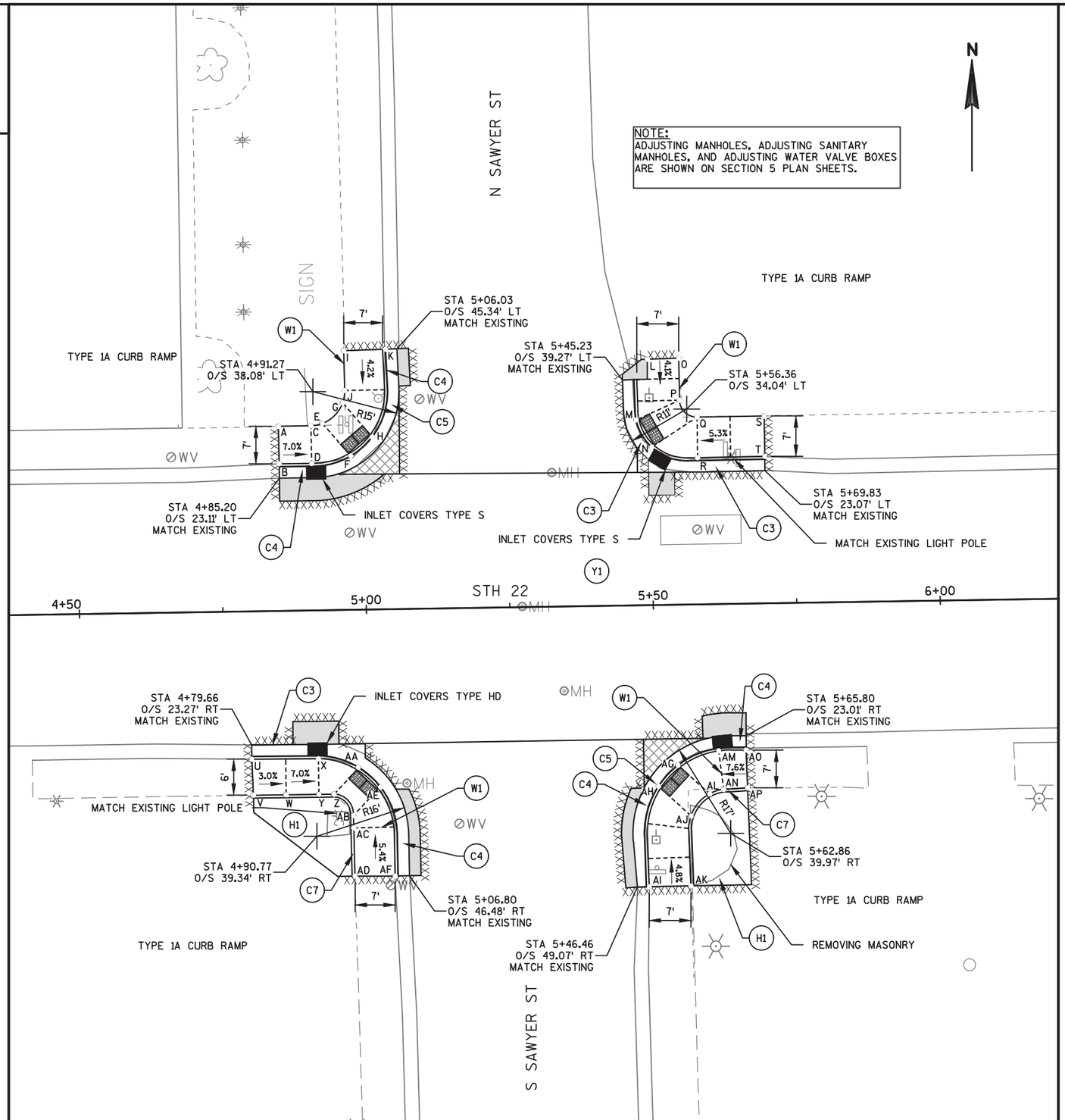
E ZINGLER AVE

RADIAL RAMP SE
BOC RADIUS=23.5'
CURB RAMP LANDING LENGTH ('XR')=15.1'
RADIAL CHORD LENGTH=7.2'

FIELD VERIFY RADII PRIOR TO INSTALLING RADIAL WARNING FIELDS

DATA TABLE			
POINT	STATION	OFFSET	ELEVATION
A	1120+52.37	25.57' RT	MATCH EXISTING
B	1120+52.31	30.57' RT	MATCH EXISTING
C	1120+61.09	25.67' RT	816.18
D	1120+61.03	30.67' RT	816.26
E	1120+67.09	25.74' RT	815.83
F	1120+67.03	30.74' RT	815.84
G	1120+71.92	25.80' RT	815.76
H	1120+76.75	30.84' RT	815.70
I	1121+25.22	24.10' RT	815.02
J	1121+21.28	27.60' RT	815.13
K	1121+22.97	33.54' RT	815.25
L	1121+22.94	38.19' RT	MATCH EXISTING
M	1121+29.34	25.23' RT	815.12
N	1121+28.00	30.23' RT	815.16
O	1121+27.94	38.23' RT	MATCH EXISTING
P	1121+38.53	25.22' RT	MATCH EXISTING
Q	1121+38.54	30.22' RT	MATCH EXISTING

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	PAVING DETAILS - CURB RAMP IMPROVEMENTS	SHEET 36	E



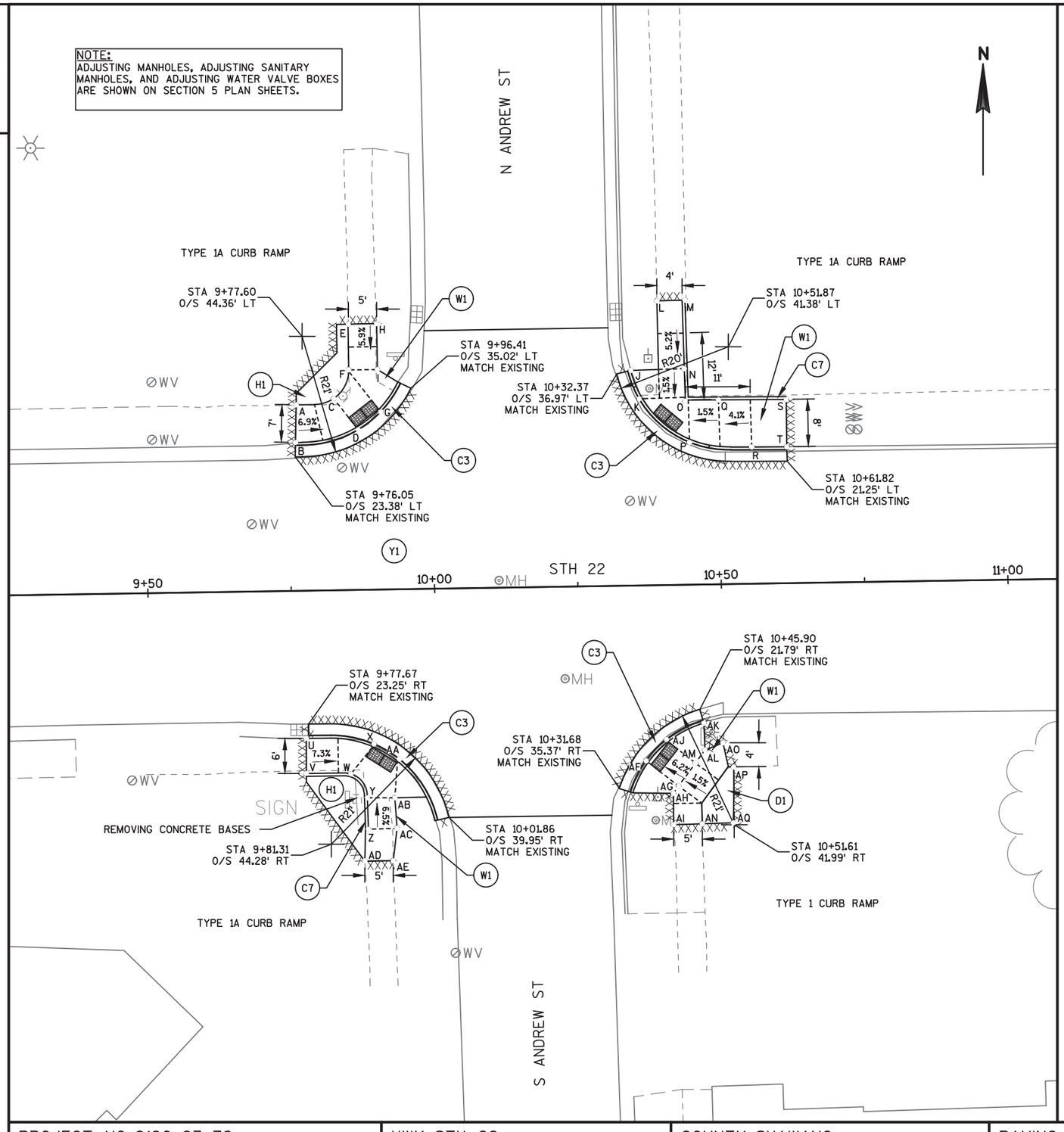
LEGEND

- ASPHALTIC SURFACE PATCHING (SEE CONSTRUCTION DETAIL)
- CONCRETE PAVEMENT 9-INCH
- ADJUSTING INLET COVERS
- C1 CONCRETE CURB & GUTTER 18-INCH TYPE A
- C2 CONCRETE CURB & GUTTER 18-INCH TYPE D
- C3 CONCRETE CURB & GUTTER 30-INCH TYPE A
- C4 CONCRETE CURB & GUTTER 30-INCH TYPE D
- C5 CONCRETE CURB & GUTTER INTERGRAL 30-INCH TYPE D
- C6 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- C7 CONCRETE CURB PEDESTRIAN
- C8 CONCRETE CURB TYPE A
- D1 CONCRETE DRIVEWAY 6-INCH
- H1 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- W1 CONCRETE SIDEWALK 6-INCH
- Y1 MILL AND OVERLAY 1.75-INCH, HMA PAVEMENT 4 MT 58-28 H
- CURB RAMP DETECTABLE WARNING FIELD (NATURAL PATINA)
- CURB RAMP DETECTABLE WARNING FIELD RADIAL (NATURAL PATINA)
- XXXXX SAWING

DATA TABLE			
POINT	STATION	OFFSET	ELEVATION
A	4+85.17	32.14' LT	MATCH EXISTING
B	4+85.18	25.63' LT	MATCH EXISTING
C	4+90.83	32.19' LT	815.30
D	4+90.88	25.59' LT	815.25
E	4+92.83	32.55' LT	815.16
F	4+97.69	26.78' LT	815.05
G	4+96.42	36.05' LT	815.11
H	5+01.49	30.03' LT	814.99
I	4+96.77	45.13' LT	MATCH EXISTING
J	4+96.80	38.20' LT	815.20
K	5+04.04	45.27' LT	MATCH EXISTING
L	5+49.64	42.80' LT	MATCH EXISTING
M	5+47.53	32.27' LT	815.03
N	5+50.16	27.52' LT	815.00
O	5+55.09	42.92' LT	MATCH EXISTING
P	5+55.14	35.60' LT	815.15
Q	5+58.13	32.62' LT	815.11
R	5+58.12	25.55' LT	815.10
S	5+69.84	32.60' LT	MATCH EXISTING
T	5+69.82	25.57' LT	MATCH EXISTING
U	4+79.64	25.75' RT	MATCH EXISTING
V	4+79.83	32.02' RT	MATCH EXISTING
W	4+85.52	32.04' RT	815.70
X	4+91.24	25.85' RT	815.23
Y	4+91.22	32.07' RT	815.30
Z	4+93.88	32.08' RT	815.13

DATA TABLE			
POINT	STATION	OFFSET	ELEVATION
AA	4+98.18	27.47' RT	815.03
AB	4+97.18	35.85' RT	815.17
AC	4+97.20	38.01' RT	815.28
AD	4+97.31	46.38' RT	MATCH EXISTING
AE	5+01.99	30.98' RT	815.07
AF	5+04.30	46.49' RT	MATCH EXISTING
AG	5+53.87	27.97' RT	814.97
AH	5+50.43	31.59' RT	815.00
AI	5+48.54	49.06' RT	MATCH EXISTING
AJ	5+56.05	36.85' RT	815.12
AK	5+55.79	49.00' RT	MATCH EXISTING
AL	5+59.31	33.07' RT	815.09
AM	5+60.98	25.58' RT	815.18
AN	5+61.77	32.31' RT	815.28
AO	5+65.76	25.51' RT	MATCH EXISTING
AP	5+65.93	32.09' RT	MATCH EXISTING

NOTE:
ADJUSTING MANHOLES, ADJUSTING SANITARY MANHOLES, AND ADJUSTING WATER VALVE BOXES ARE SHOWN ON SECTION 5 PLAN SHEETS.



LEGEND

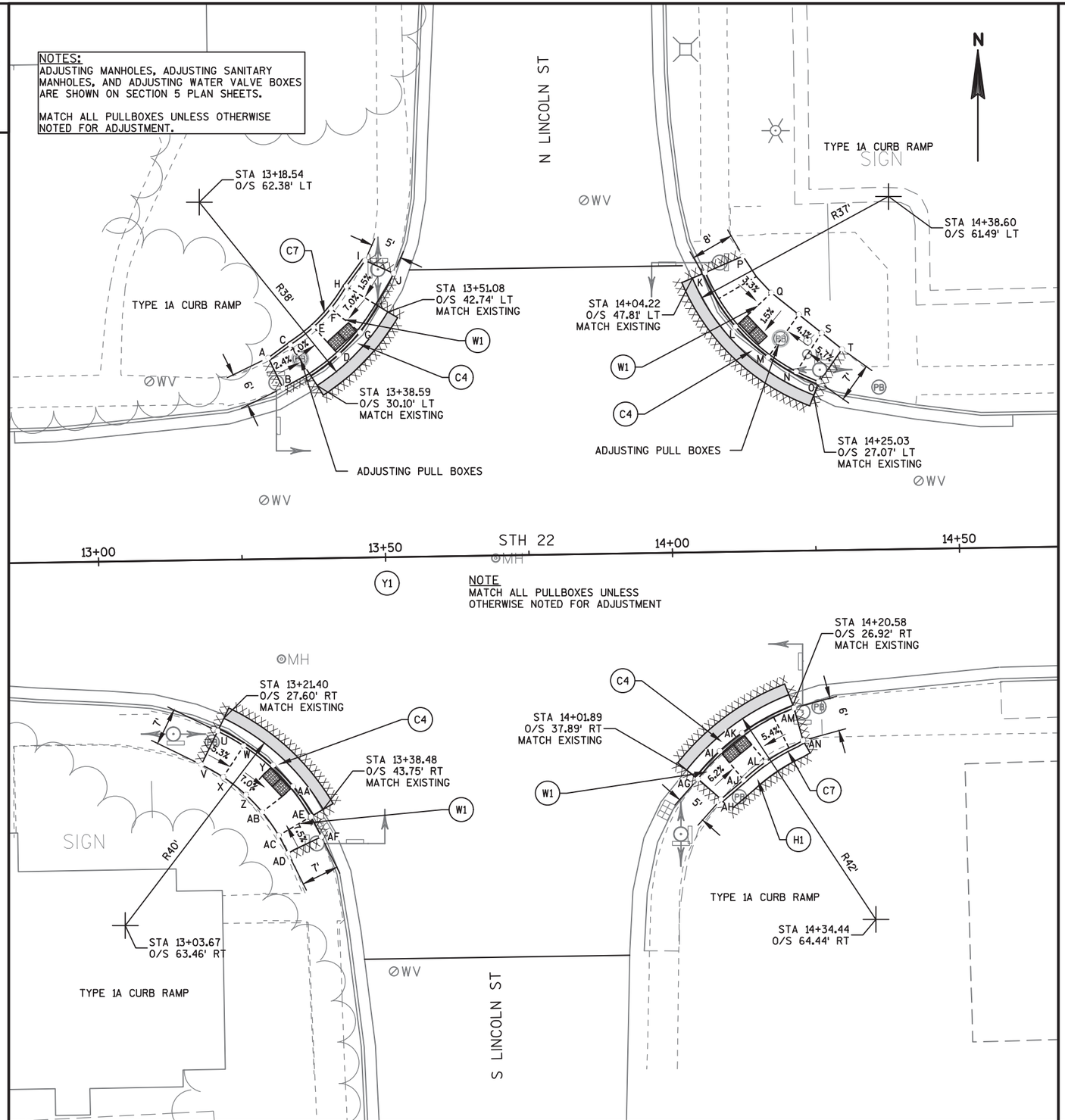
- ASPHALTIC SURFACE PATCHING (SEE CONSTRUCTION DETAIL)
- CONCRETE PAVEMENT 9-INCH
- ADJUSTING INLET COVERS
- C1 CONCRETE CURB & GUTTER 18-INCH TYPE A
- C2 CONCRETE CURB & GUTTER 18-INCH TYPE D
- C3 CONCRETE CURB & GUTTER 30-INCH TYPE A
- C4 CONCRETE CURB & GUTTER 30-INCH TYPE D
- C5 CONCRETE CURB & GUTTER INTERGRAL 30-INCH TYPE D
- C6 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- C7 CONCRETE CURB PEDESTRIAN
- C8 CONCRETE CURB TYPE A
- D1 CONCRETE DRIVEWAY 6-INCH
- H1 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- W1 CONCRETE SIDEWALK 6-INCH
- Y1 MILL AND OVERLAY 1.75-INCH, HMA PAVEMENT 4 MT 58-28 H
- CURB RAMP DETECTABLE WARNING FIELD (NATURAL PATINA)
- CURB RAMP DETECTABLE WARNING FIELD RADIAL (NATURAL PATINA)
- XXXXX SAWING

DATA TABLE			
POINT	STATION	OFFSET	ELEVATION
A	9+76.37	32.43' LT	MATCH EXISTING
B	9+76.14	25.88' LT	MATCH EXISTING
C	9+82.93	33.41' LT	814.19
D	9+87.12	27.92' LT	814.09
E	9+85.67	46.36' LT	MATCH EXISTING
F	9+85.62	38.41' LT	814.20
G	9+91.08	30.97' LT	814.07
H	9+90.61	46.37' LT	MATCH EXISTING
I	9+90.62	38.37' LT	814.13
J	10+34.80	37.52' LT	814.54
K	10+36.19	32.55' LT	814.15
L	10+39.54	49.60' LT	MATCH EXISTING
M	10+44.43	49.62' LT	MATCH EXISTING
N	10+44.14	37.68' LT	814.31
O	10+44.23	32.01' LT	814.24
P	10+44.86	24.81' LT	814.13
Q	10+50.01	32.15' LT	814.31
R	10+55.69	23.83' LT	814.57
S	10+61.82	32.03' LT	MATCH EXISTING
T	10+61.79	23.75' LT	MATCH EXISTING
U	9+77.22	25.74' RT	MATCH EXISTING
V	9+77.13	31.88' RT	MATCH EXISTING
W	9+84.90	32.08' RT	814.09
X	9+89.00	26.91' RT	814.01
Y	9+87.69	36.28' RT	814.16
Z	9+87.79	41.77' RT	814.52

DATA TABLE			
POINT	STATION	OFFSET	ELEVATION
AA	9+93.40	29.62' RT	814.04
AB	9+92.49	36.36' RT	814.14
AC	9+92.79	41.67' RT	814.48
AD	9+87.09	47.25' RT	MATCH EXISTING
AE	9+92.05	47.33' RT	MATCH EXISTING
AF	10+36.41	30.60' RT	814.10
AG	10+42.01	35.10' RT	814.55
AH	10+41.06	36.35' RT	814.50
AI	10+41.04	41.81' RT	MATCH EXISTING
AJ	10+40.02	26.94' RT	814.12
AK	10+46.58	24.19' RT	814.47
AL	10+46.70	28.87' RT	814.59
AM	10+44.99	31.14' RT	814.57
AN	10+46.04	41.75' RT	MATCH EXISTING
AO	10+49.86	27.67' RT	MATCH EXISTING
AP	10+51.67	31.92' RT	MATCH EXISTING
AQ	10+51.45	41.66' RT	814.61

NOTES:
ADJUSTING MANHOLES, ADJUSTING SANITARY MANHOLES, AND ADJUSTING WATER VALVE BOXES ARE SHOWN ON SECTION 5 PLAN SHEETS.

MATCH ALL PULLBOXES UNLESS OTHERWISE NOTED FOR ADJUSTMENT.



LEGEND

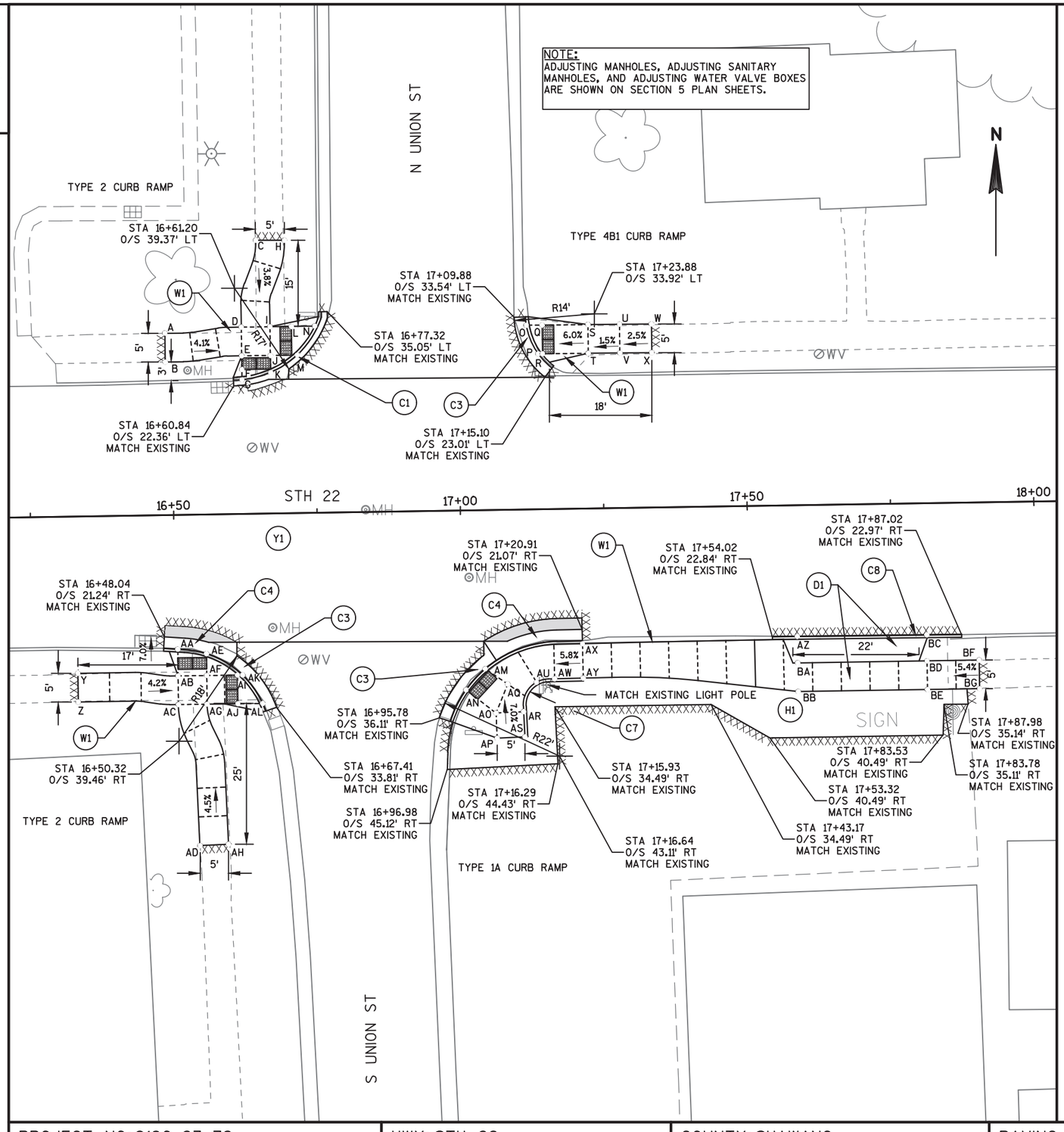
- ASPHALTIC SURFACE PATCHING (SEE CONSTRUCTION DETAIL)
- CONCRETE PAVEMENT 9-INCH
- ADJUSTING INLET COVERS
- C1 CONCRETE CURB & GUTTER 18-INCH TYPE A
- C2 CONCRETE CURB & GUTTER 18-INCH TYPE D
- C3 CONCRETE CURB & GUTTER 30-INCH TYPE A
- C4 CONCRETE CURB & GUTTER 30-INCH TYPE D
- C5 CONCRETE CURB & GUTTER INTERGRAL 30-INCH TYPE D
- C6 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- C7 CONCRETE CURB PEDESTRIAN
- C8 CONCRETE CURB TYPE A
- D1 CONCRETE DRIVEWAY 6-INCH
- H1 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- W1 CONCRETE SIDEWALK 6-INCH
- Y1 MILL AND OVERLAY 1.75-INCH, HMA PAVEMENT 4 MT 58-28 H
- CURB RAMP DETECTABLE WARNING FIELD (NATURAL PATINA)
- CURB RAMP DETECTABLE WARNING FIELD RADIAL (NATURAL PATINA)
- XXXXX SAWING

DATA TABLE

POINT	STATION	OFFSET	ELEVATION
A	13+30.12	35.08' LT	MATCH EXISTING
B	13+32.60	29.77' LT	MATCH EXISTING
C	13+34.02	37.26' LT	814.00
D	13+42.41	35.43' LT	813.56
E	13+38.10	40.30' LT	813.65
F	13+41.19	43.48' LT	813.64
G	13+46.14	39.27' LT	813.55
H	13+43.91	47.31' LT	813.96
I	13+47.25	51.74' LT	MATCH EXISTING
J	13+52.20	49.46' LT	MATCH EXISTING
K	14+06.45	48.74' LT	MATCH EXISTING
L	14+11.59	39.23' LT	813.85
M	14+17.18	33.81' LT	813.82
N	14+22.06	31.22' LT	813.90
O	14+25.95	29.40' LT	MATCH EXISTING
P	14+13.10	51.49' LT	MATCH EXISTING
Q	14+17.94	45.04' LT	813.98
R	14+22.66	41.21' LT	813.95
S	14+26.58	37.90' LT	814.02
T	14+30.09	35.02' LT	MATCH EXISTING
U	13+20.31	29.82' RT	MATCH EXISTING
V	13+17.36	35.64' RT	MATCH EXISTING
W	13+24.79	32.47' RT	814.01
X	13+21.13	37.84' RT	814.11
Y	13+29.86	35.92' RT	813.66
Z	13+25.04	41.00' RT	813.76

DATA TABLE

POINT	STATION	OFFSET	ELEVATION
AA	13+33.29	39.65' RT	813.62
AB	13+27.83	44.04' RT	813.72
AC	13+30.65	48.19' RT	814.07
AD	13+32.19	51.37' RT	MATCH EXISTING
AE	13+36.30	44.98' RT	813.97
AF	13+38.07	48.53' RT	MATCH EXISTING
AG	14+03.83	39.48' RT	MATCH EXISTING
AH	14+07.79	43.07' RT	MATCH EXISTING
AI	14+07.72	34.67' RT	813.78
AJ	14+11.76	39.79' RT	813.88
AK	14+11.64	31.57' RT	813.82
AL	14+15.68	36.68' RT	813.92
AM	14+20.75	27.39' RT	MATCH EXISTING
AN	14+22.22	33.07' RT	MATCH EXISTING



LEGEND

- ASPHALTIC SURFACE PATCHING (SEE CONSTRUCTION DETAIL)
- CONCRETE PAVEMENT 9-INCH
- ADJUSTING INLET COVERS
- C1 CONCRETE CURB & GUTTER 18-INCH TYPE A
- C2 CONCRETE CURB & GUTTER 18-INCH TYPE D
- C3 CONCRETE CURB & GUTTER 30-INCH TYPE A
- C4 CONCRETE CURB & GUTTER 30-INCH TYPE D
- C5 CONCRETE CURB & GUTTER INTERGRAL 30-INCH TYPE D
- C6 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- C7 CONCRETE CURB PEDESTRIAN
- C8 CONCRETE CURB TYPE A
- D1 CONCRETE DRIVEWAY 6-INCH
- H1 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- W1 CONCRETE SIDEWALK 6-INCH
- Y1 MILL AND OVERLAY 1.75-INCH, HMA PAVEMENT 4 MT 58-28 H
- CURB RAMP DETECTABLE WARNING FIELD (NATURAL PATINA)
- CURB RAMP DETECTABLE WARNING FIELD RADIAL (NATURAL PATINA)
- XXXXX SAWING

DATA TABLE			
POINT	STATION	OFFSET	ELEVATION
A	16+48.97	31.74' LT	MATCH EXISTING
B	16+48.96	26.71' LT	MATCH EXISTING
C	16+65.06	47.68' LT	MATCH EXISTING
D	16+62.30	32.58' LT	813.16
E	16+62.30	27.58' LT	813.09
F	16+62.29	25.18' LT	812.93
G	16+62.29	23.40' LT	812.91
H	16+70.05	47.60' LT	MATCH EXISTING
I	16+67.30	32.57' LT	813.14
J	16+67.31	27.56' LT	813.07
K	16+67.29	24.57' LT	812.98
L	16+71.05	32.57' LT	813.12
M	16+72.00	27.56' LT	813.04
N	16+75.13	32.56' LT	813.08
O	17+12.01	32.13' LT	813.08
P	17+13.99	27.12' LT	813.06
Q	17+14.76	32.11' LT	813.12
R	17+14.75	27.11' LT	813.07
S	17+22.76	32.07' LT	813.60
T	17+22.73	27.07' LT	813.55
U	17+28.26	32.04' LT	813.68
V	17+28.27	27.04' LT	813.61
W	17+33.83	32.01' LT	MATCH EXISTING
X	17+33.80	27.01' LT	MATCH EXISTING
Y	16+32.86	27.33' RT	MATCH EXISTING
Z	16+32.85	32.33' RT	MATCH EXISTING

DATA TABLE			
POINT	STATION	OFFSET	ELEVATION
AA	16+50.35	23.42' RT	812.99
AB	16+50.33	28.07' RT	813.22
AC	16+50.33	33.07' RT	813.29
AD	16+53.72	57.72' RT	MATCH EXISTING
AE	16+55.35	24.27' RT	812.95
AF	16+55.33	28.08' RT	813.15
AG	16+55.32	33.08' RT	813.22
AH	16+58.67	57.57' RT	MATCH EXISTING
AI	16+60.70	28.09' RT	813.01
AJ	16+60.69	33.09' RT	813.08
AK	16+61.58	28.09' RT	813.00
AL	16+65.00	33.10' RT	813.05
AM	17+03.92	27.67' RT	812.91
AN	17+00.51	31.28' RT	812.98
AO	17+05.67	35.42' RT	813.15
AP	17+05.81	39.81' RT	MATCH EXISTING
AQ	17+07.77	30.40' RT	813.08
AR	17+10.48	35.25' RT	813.18
AS	17+10.64	39.64' RT	MATCH EXISTING
AU	17+12.81	30.16' RT	813.12
AW	17+15.97	29.61' RT	813.19
AX	17+20.93	23.57' RT	MATCH EXISTING
AY	17+20.97	29.57' RT	813.48
AZ	17+58.40	22.87' RT	812.96

DATA TABLE			
POINT	STATION	OFFSET	ELEVATION
F	16+62.29	25.18' LT	812.93
G	16+62.29	23.40' LT	812.91
H	16+70.05	47.60' LT	813.67
I	16+67.30	32.57' LT	813.14
J	16+67.31	27.56' LT	813.07
K	16+67.29	24.57' LT	812.98
L	16+71.05	32.57' LT	813.12

LEGEND

- ASPHALTIC SURFACE PATCHING (SEE CONSTRUCTION DETAIL)
- CONCRETE PAVEMENT 9-INCH
- ADJUSTING INLET COVERS
- (C1) CONCRETE CURB & GUTTER 18-INCH TYPE A
- (C2) CONCRETE CURB & GUTTER 18-INCH TYPE D
- (C3) CONCRETE CURB & GUTTER 30-INCH TYPE A
- (C4) CONCRETE CURB & GUTTER 30-INCH TYPE D
- (C5) CONCRETE CURB & GUTTER INTERGRAL 30-INCH TYPE D
- (C6) CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (C7) CONCRETE CURB PEDESTRIAN
- (C8) CONCRETE CURB TYPE A
- (D1) CONCRETE DRIVEWAY 6-INCH
- (H1) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (W1) CONCRETE SIDEWALK 6-INCH
- (Y1) MILL AND OVERLAY 1.75-INCH, HMA PAVEMENT 4 MT 58-28 H
- CURB RAMP DETECTABLE WARNING FIELD (NATURAL PATINA)
- CURB RAMP DETECTABLE WARNING FIELD RADIAL (NATURAL PATINA)
- XXXXX SAWING

NOTE:
ADJUSTING MANHOLES, ADJUSTING SANITARY MANHOLES, AND ADJUSTING WATER VALVE BOXES ARE SHOWN ON SECTION 5 PLAN SHEETS.

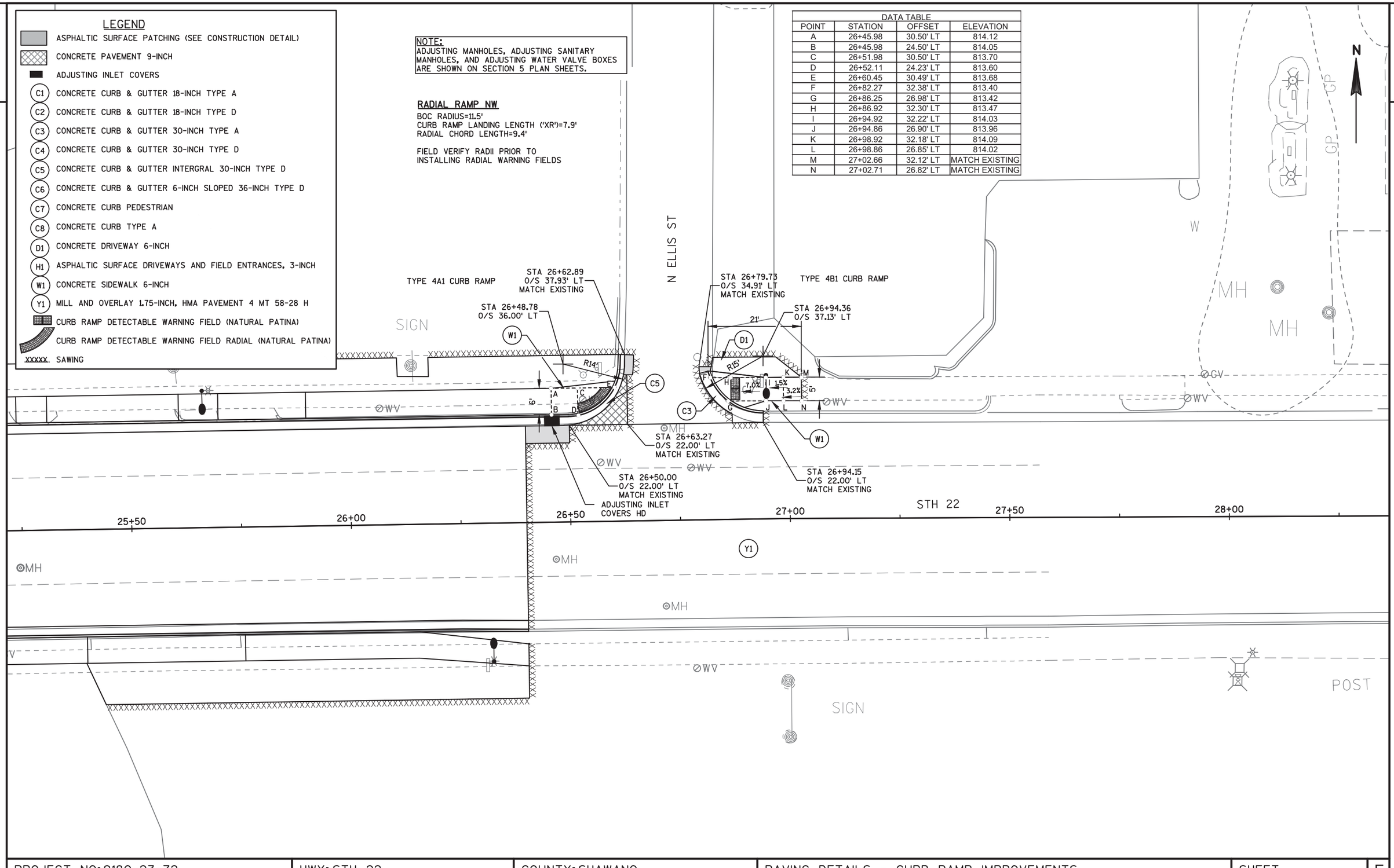
RADIAL RAMP NW

BOC RADIUS=11.5'
CURB RAMP LANDING LENGTH ('XR')=7.9'
RADIAL CHORD LENGTH=9.4'

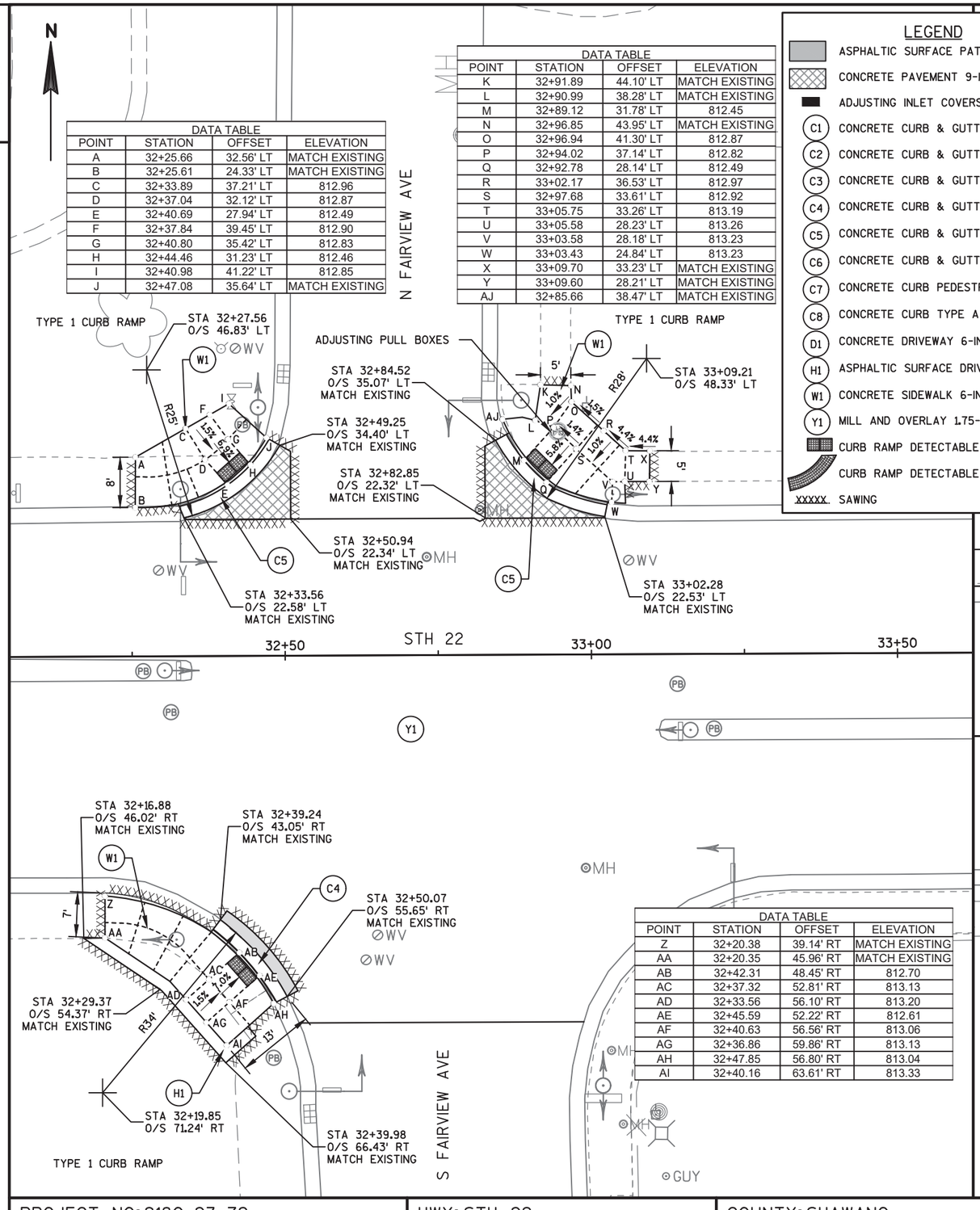
FIELD VERIFY RADII PRIOR TO INSTALLING RADIAL WARNING FIELDS

DATA TABLE

POINT	STATION	OFFSET	ELEVATION
A	26+45.98	30.50' LT	814.12
B	26+45.98	24.50' LT	814.05
C	26+51.98	30.50' LT	813.70
D	26+52.11	24.23' LT	813.60
E	26+60.45	30.49' LT	813.68
F	26+82.27	32.38' LT	813.40
G	26+86.25	26.98' LT	813.42
H	26+86.92	32.30' LT	813.47
I	26+94.92	32.22' LT	814.03
J	26+94.86	26.90' LT	813.96
K	26+98.92	32.18' LT	814.09
L	26+98.86	26.85' LT	814.02
M	27+02.66	32.12' LT	MATCH EXISTING
N	27+02.71	26.82' LT	MATCH EXISTING



PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	PAVING DETAILS - CURB RAMP IMPROVEMENTS	SHEET 41	E



DATA TABLE			
POINT	STATION	OFFSET	ELEVATION
A	32+25.66	32.56' LT	MATCH EXISTING
B	32+25.61	24.33' LT	MATCH EXISTING
C	32+33.89	37.21' LT	812.96
D	32+37.04	32.12' LT	812.87
E	32+40.69	27.94' LT	812.49
F	32+37.84	39.45' LT	812.90
G	32+40.80	35.42' LT	812.83
H	32+44.46	31.23' LT	812.46
I	32+40.98	41.22' LT	812.85
J	32+47.08	35.64' LT	MATCH EXISTING

DATA TABLE			
POINT	STATION	OFFSET	ELEVATION
K	32+91.89	44.10' LT	MATCH EXISTING
L	32+90.99	38.28' LT	MATCH EXISTING
M	32+89.12	31.78' LT	812.45
N	32+96.85	43.95' LT	MATCH EXISTING
O	32+96.94	41.30' LT	812.87
P	32+94.02	37.14' LT	812.82
Q	32+92.78	28.14' LT	812.49
R	33+02.17	36.53' LT	812.97
S	32+97.68	33.61' LT	812.92
T	33+05.75	33.26' LT	813.19
U	33+05.58	28.23' LT	813.26
V	33+03.58	28.18' LT	813.23
W	33+03.43	24.84' LT	813.23
X	33+09.70	33.23' LT	MATCH EXISTING
Y	33+09.60	28.21' LT	MATCH EXISTING
AJ	32+85.66	38.47' LT	MATCH EXISTING

DATA TABLE			
POINT	STATION	OFFSET	ELEVATION
Z	32+20.38	39.14' RT	MATCH EXISTING
AA	32+20.35	45.96' RT	MATCH EXISTING
AB	32+42.31	48.45' RT	812.70
AC	32+37.32	52.81' RT	813.13
AD	32+33.56	56.10' RT	813.20
AE	32+45.59	52.22' RT	812.61
AF	32+40.63	56.56' RT	813.06
AG	32+36.86	59.86' RT	813.13
AH	32+47.85	56.80' RT	813.04
AI	32+40.16	63.61' RT	813.33

DATA TABLE			
POINT	STATION	OFFSET	ELEVATION
A	40+12.20	31.60' LT	813.72
B	40+14.49	26.16' LT	MATCH EXISTING
C	40+15.65	33.83' LT	813.45
D	40+19.81	28.84' LT	813.36
E	40+18.43	36.77' LT	813.48
F	40+23.30	32.53' LT	813.38
G	40+20.01	39.97' LT	813.72
H	40+25.72	38.12' LT	MATCH EXISTING
I	40+68.64	47.82' LT	MATCH EXISTING
J	40+69.14	40.27' LT	MATCH EXISTING
K	40+72.00	32.57' LT	813.30
L	40+75.79	28.55' LT	813.33
M	40+82.82	25.37' LT	MATCH EXISTING
N	40+74.03	47.84' LT	MATCH EXISTING
O	40+74.24	45.26' LT	813.97
P	40+77.60	38.05' LT	813.42
Q	40+80.95	35.13' LT	813.45
R	40+88.64	32.77' LT	813.81
S	40+88.57	27.78' LT	MATCH EXISTING
T	40+92.19	32.73' LT	MATCH EXISTING
U	40+92.14	27.73' LT	MATCH EXISTING

LEGEND

- ASPHALTIC SURFACE PATCHING (SEE CONSTRUCTION DETAIL)
- CONCRETE PAVEMENT 9-INCH
- ADJUSTING INLET COVERS
- C1 CONCRETE CURB & GUTTER 18-INCH TYPE A
- C2 CONCRETE CURB & GUTTER 18-INCH TYPE D
- C3 CONCRETE CURB & GUTTER 30-INCH TYPE A
- C4 CONCRETE CURB & GUTTER 30-INCH TYPE D
- C5 CONCRETE CURB & GUTTER INTERGRAL 30-INCH TYPE D
- C6 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- C7 CONCRETE CURB PEDESTRIAN
- C8 CONCRETE CURB TYPE A
- D1 CONCRETE DRIVEWAY 6-INCH
- H1 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- W1 CONCRETE SIDEWALK 6-INCH
- Y1 MILL AND OVERLAY 1.75-INCH, HMA PAVEMENT 4 MT 58-28 H
- CURB RAMP DETECTABLE WARNING FIELD (NATURAL PATINA)
- CURB RAMP DETECTABLE WARNING FIELD RADIAL (NATURAL PATINA)
- XXXXX SAWING

NOTES
SEE SIDEWALK IMPROVEMENT PAVING DETAILS FOR ADDITIONAL SIDEWALK INFORMATION.

ADJUSTING MANHOLES, ADJUSTING SANITARY MANHOLES, AND ADJUSTING WATER VALVE BOXES ARE SHOWN ON SECTION 5 PLAN SHEETS.

MATCH ALL PULLBOXES UNLESS OTHERWISE NOTED FOR ADJUSTMENT

PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	PAVING DETAILS - CURB RAMP IMPROVEMENTS	SHEET 42	E

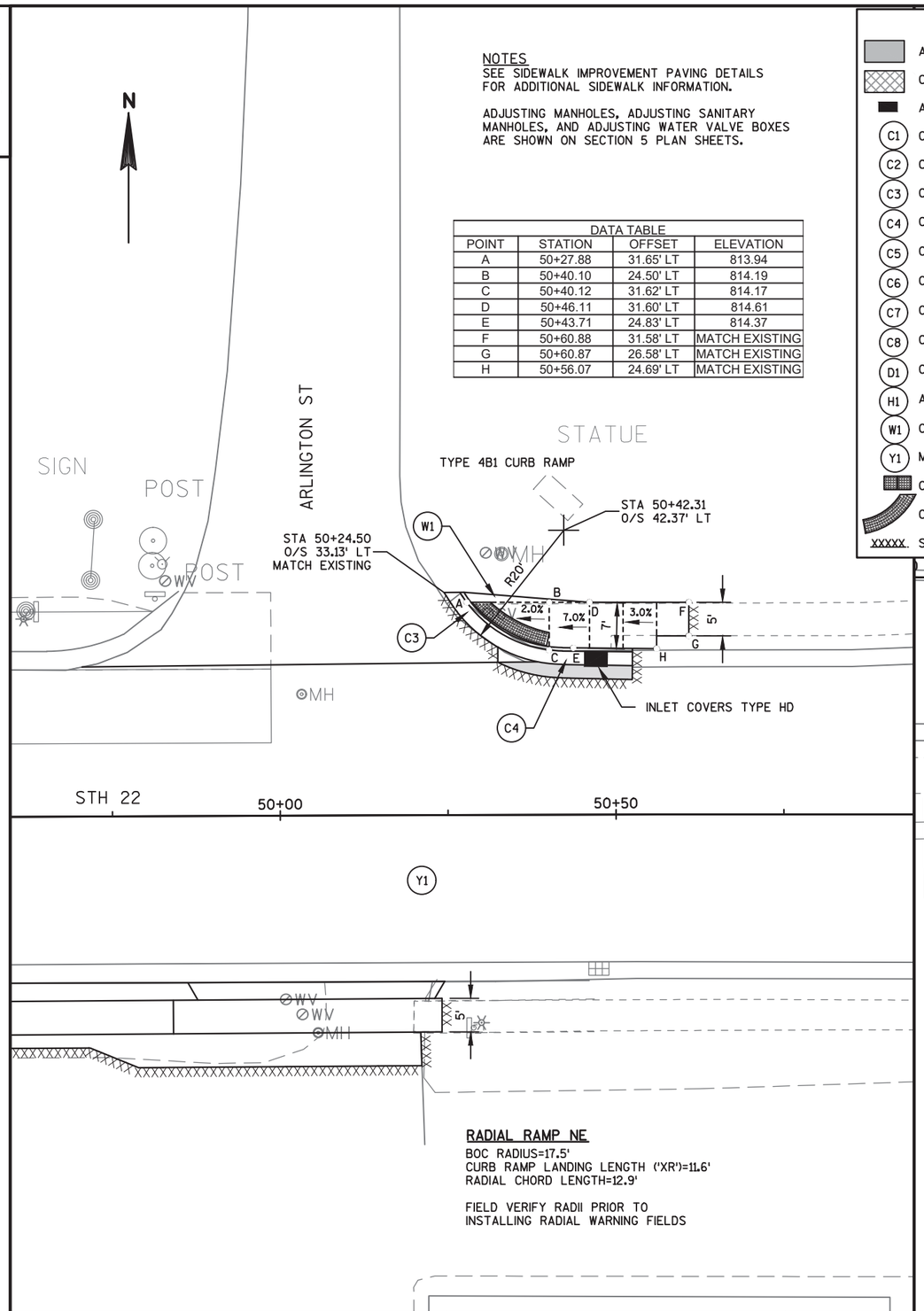
NOTES
SEE SIDEWALK IMPROVEMENT PAVING DETAILS FOR ADDITIONAL SIDEWALK INFORMATION.

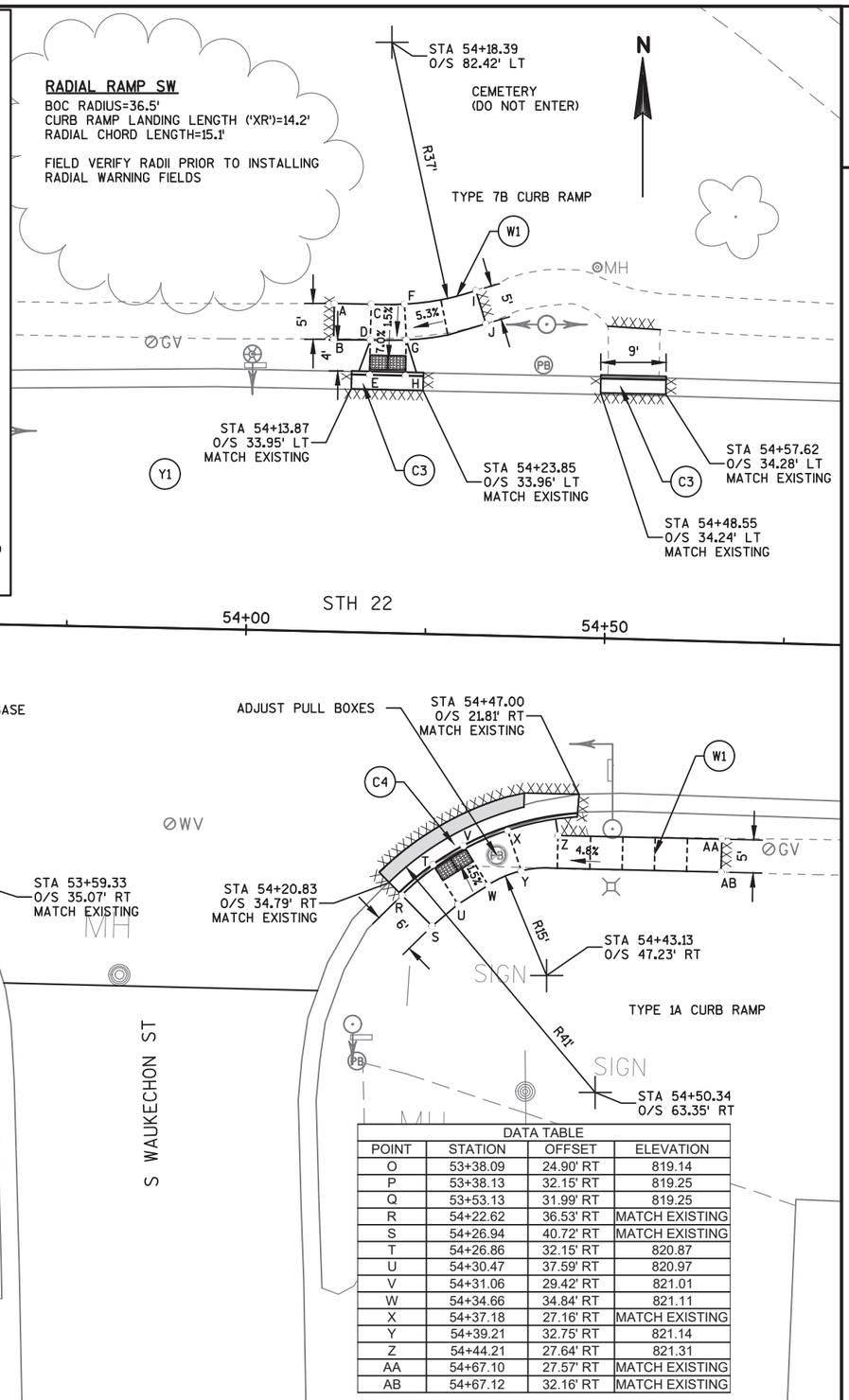
ADJUSTING MANHOLES, ADJUSTING SANITARY MANHOLES, AND ADJUSTING WATER VALVE BOXES ARE SHOWN ON SECTION 5 PLAN SHEETS.

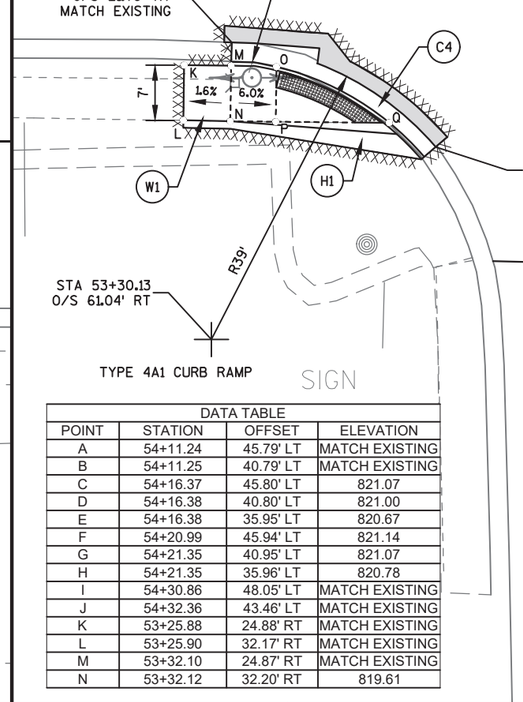
DATA TABLE			
POINT	STATION	OFFSET	ELEVATION
A	50+27.88	31.65' LT	813.94
B	50+40.10	24.50' LT	814.19
C	50+40.12	31.62' LT	814.17
D	50+46.11	31.60' LT	814.61
E	50+43.71	24.83' LT	814.37
F	50+60.88	31.58' LT	MATCH EXISTING
G	50+60.87	26.58' LT	MATCH EXISTING
H	50+56.07	24.69' LT	MATCH EXISTING

LEGEND

- ASPHALTIC SURFACE PATCHING (SEE CONSTRUCTION DETAIL)
- CONCRETE PAVEMENT 9-INCH
- ADJUSTING INLET COVERS
- C1 CONCRETE CURB & GUTTER 18-INCH TYPE A
- C2 CONCRETE CURB & GUTTER 18-INCH TYPE D
- C3 CONCRETE CURB & GUTTER 30-INCH TYPE A
- C4 CONCRETE CURB & GUTTER 30-INCH TYPE D
- C5 CONCRETE CURB & GUTTER INTERGRAL 30-INCH TYPE D
- C6 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- C7 CONCRETE CURB PEDESTRIAN
- C8 CONCRETE CURB TYPE A
- D1 CONCRETE DRIVEWAY 6-INCH
- H1 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- W1 CONCRETE SIDEWALK 6-INCH
- Y1 MILL AND OVERLAY 1.75-INCH, HMA PAVEMENT 4 MT 58-28 H
- CURB RAMP DETECTABLE WARNING FIELD (NATURAL PATINA)
- CURB RAMP DETECTABLE WARNING FIELD RADIAL (NATURAL PATINA)
- XXXXX SAWING







DATA TABLE			
POINT	STATION	OFFSET	ELEVATION
A	54+11.24	45.79' LT	MATCH EXISTING
B	54+11.25	40.79' LT	MATCH EXISTING
C	54+16.37	45.80' LT	821.07
D	54+16.38	40.80' LT	821.00
E	54+16.38	35.95' LT	820.67
F	54+20.99	45.94' LT	821.14
G	54+21.35	40.95' LT	821.07
H	54+21.35	35.96' LT	820.78
I	54+30.86	48.05' LT	MATCH EXISTING
J	54+32.36	43.46' LT	MATCH EXISTING
K	53+25.88	24.88' RT	MATCH EXISTING
L	53+25.90	32.17' RT	MATCH EXISTING
M	53+32.10	24.87' RT	MATCH EXISTING
N	53+32.12	32.20' RT	819.61

DATA TABLE			
POINT	STATION	OFFSET	ELEVATION
O	53+38.09	24.90' RT	819.14
P	53+38.13	32.15' RT	819.25
Q	53+53.13	31.99' RT	819.25
R	54+22.62	36.53' RT	MATCH EXISTING
S	54+26.94	40.72' RT	MATCH EXISTING
T	54+26.86	32.15' RT	820.87
U	54+30.47	37.59' RT	820.97
V	54+31.06	29.42' RT	821.01
W	54+34.66	34.84' RT	821.11
X	54+37.18	27.16' RT	MATCH EXISTING
Y	54+39.21	32.75' RT	821.14
Z	54+44.21	27.64' RT	821.31
AA	54+67.10	27.57' RT	MATCH EXISTING
AB	54+67.12	32.16' RT	MATCH EXISTING

PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	PAVING DETAILS - CURB RAMP IMPROVEMENTS	SHEET 43	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\021203-PD.DWG
LAYOUT NAME - ****
PLOT DATE : 10/11/2018 1:56 PM PLOT BY : DREW NELSON PLOT NAME : PLOT SCALE : 1 IN:20 FT

LEGEND

- ASPHALTIC SURFACE PATCHING (SEE CONSTRUCTION DETAIL)
- CONCRETE PAVEMENT 9-INCH
- ADJUSTING INLET COVERS
- (C1) CONCRETE CURB & GUTTER 18-INCH TYPE A
- (C2) CONCRETE CURB & GUTTER 18-INCH TYPE D
- (C3) CONCRETE CURB & GUTTER 30-INCH TYPE A
- (C4) CONCRETE CURB & GUTTER 30-INCH TYPE D
- (C5) CONCRETE CURB & GUTTER INTERGRAL 30-INCH TYPE D
- (C6) CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- (C7) CONCRETE CURB PEDESTRIAN
- (C8) CONCRETE CURB TYPE A
- (D1) CONCRETE DRIVEWAY 6-INCH
- (H1) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- (W1) CONCRETE SIDEWALK 6-INCH
- (Y1) MILL AND OVERLAY 1.75-INCH, HMA PAVEMENT 4 MT 58-28 H
- CURB RAMP DETECTABLE WARNING FIELD (NATURAL PATINA)
- CURB RAMP DETECTABLE WARNING FIELD RADIAL (NATURAL PATINA)
- XXXXX SAWING

DATA TABLE			
POINT	STATION	OFFSET	ELEVATION
A	59+77.50	49.97' LT	MATCH EXISTING
B	59+79.96	45.59' LT	MATCH EXISTING
C	59+91.31	57.76' LT	822.46
D	59+95.37	54.30' LT	822.38
E	60+00.22	50.44' LT	822.03
F	59+94.36	61.51' LT	822.39
G	59+98.52	58.19' LT	822.31
H	60+03.36	54.33' LT	821.93
I	59+97.51	65.39' LT	822.44
J	60+05.60	58.89' LT	MATCH EXISTING

DATA TABLE			
POINT	STATION	OFFSET	ELEVATION
K	60+73.19	66.94' LT	821.05
L	60+67.89	60.42' LT	MATCH EXISTING
M	60+77.26	64.04' LT	821.10
N	60+74.10	60.15' LT	821.03
O	60+71.26	56.66' LT	820.88
P	60+80.87	61.46' LT	821.08
Q	60+78.00	57.36' LT	821.01
R	60+75.41	53.68' LT	820.85
S	60+90.37	57.53' LT	MATCH EXISTING
T	60+90.36	52.53' LT	MATCH EXISTING

WOODLAWN DR

GUY

N

NOTE:
ADJUSTING MANHOLES, ADJUSTING SANITARY MANHOLES, AND ADJUSTING WATER VALVE BOXES ARE SHOWN ON SECTION 5 PLAN SHEETS.

STA 59+68.41
O/S 79.38' LT
MATCH EXISTING

STA 60+06.95
O/S 58.14' LT
MATCH EXISTING

STA 60+66.81
O/S 59.38' LT
MATCH EXISTING

STA 60+98.40
O/S 90.02' LT
MATCH EXISTING

TYPE 1 CURB RAMP

TYPE 1 CURB RAMP

STA 59+97.23
O/S 46.12' LT
MATCH EXISTING

STA 60+79.43
O/S 50.31' LT
MATCH EXISTING

RADIAL RAMP SW

BOC RADIUS=26.5'
CURB RAMP LANDING LENGTH ('XR')=13.8'
RADIAL CHORD LENGTH=8.6'

FIELD VERIFY RADII PRIOR TO INSTALLING
RADIAL WARNING FIELDS

59+00 59+50 60+00 STH 22 60+50 61+00 61+50

STA 58+96.93
O/S 22.11' RT
MATCH EXISTING

STA 58+96.86
O/S 51.11' RT
MATCH EXISTING

TYPE 4B1 CURB RAMP

DATA TABLE			
POINT	STATION	OFFSET	ELEVATION
U	58+91.58	27.275' RT	MATCH EXISTING
V	58+91.43	32.01' RT	MATCH EXISTING
W	58+95.92	27.15' RT	824.80
X	58+95.76	32.14' RT	824.87
Y	59+01.76	27.33' RT	824.46
Z	59+01.75	32.33' RT	824.46
AA	59+09.65	27.34' RT	824.44
AB	59+16.26	32.34' RT	824.33

STA 59+08.98
O/S 22.14' RT
MATCH EXISTING

TYPE 4B1 CURB RAMP

STA 59+91.25
O/S 22.11' RT
MATCH EXISTING

ADJUSTING PULL BOXES

STA 60+05.63
O/S 22.21' RT
MATCH EXISTING

STA 59+97.14
O/S 33.99' RT
MATCH EXISTING

STA 60+09.21
O/S 33.31' RT
MATCH EXISTING

TYPE 1 (MOD) CURB RAMP

DATA TABLE			
POINT	STATION	OFFSET	ELEVATION
AC	59+35.26	26.92' RT	824.25
AD	59+38.42	31.91' RT	824.29
AE	59+48.69	26.86' RT	MATCH EXISTING
AF	59+48.71	31.86' RT	MATCH EXISTING
AG	59+84.93	26.91' RT	MATCH EXISTING
AH	59+84.95	31.91' RT	MATCH EXISTING
AI	59+96.24	26.85' RT	822.70
AJ	59+96.23	31.85' RT	822.76
AK	60+05.43	28.20' RT	822.73
AL	60+00.86	33.54' RT	822.83

STA 60+57.77
O/S 33.06' RT
MATCH EXISTING

STA 60+82.20
O/S 22.29' RT
MATCH EXISTING

STA 60+82.02
O/S 52.38' RT
MATCH EXISTING

TYPE 2 CURB RAMP/
TYPE 4B1 CURB RAMP

RADIAL RAMP SE

BOC RADIUS=28.5'
CURB RAMP LANDING LENGTH ('XR')=13.1'
RADIAL CHORD LENGTH=8.2'

FIELD VERIFY RADII PRIOR TO INSTALLING
RADIAL WARNING FIELDS

DATA TABLE			
POINT	STATION	OFFSET	ELEVATION
AM	60+67.06	27.53' RT	821.52
AN	60+60.87	32.54' RT	821.67
AO	60+74.70	24.53' RT	821.43
AP	60+74.70	27.53' RT	821.57
AQ	60+74.70	32.53' RT	821.69
AR	60+79.70	24.29' RT	821.35
AS	60+79.70	27.52' RT	821.57
AT	60+79.70	32.52' RT	821.64
AU	60+86.09	28.02' RT	MATCH EXISTING
AV	60+86.10	32.02' RT	MATCH EXISTING

PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	PAVING DETAILS - CURB RAMP IMPROVEMENTS	SHEET 44	E

LEGEND

- ASPHALTIC SURFACE PATCHING (SEE CONSTRUCTION DETAIL)
- CONCRETE PAVEMENT 9-INCH
- ADJUSTING INLET COVERS
- C1 CONCRETE CURB & GUTTER 18-INCH TYPE A
- C2 CONCRETE CURB & GUTTER 18-INCH TYPE D
- C3 CONCRETE CURB & GUTTER 30-INCH TYPE A
- C4 CONCRETE CURB & GUTTER 30-INCH TYPE D
- C5 CONCRETE CURB & GUTTER INTERGRAL 30-INCH TYPE D
- C6 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- C7 CONCRETE CURB PEDESTRIAN
- C8 CONCRETE CURB TYPE A
- D1 CONCRETE DRIVEWAY 6-INCH
- H1 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- W1 CONCRETE SIDEWALK 6-INCH
- Y1 MILL AND OVERLAY 1.75-INCH, HMA PAVEMENT 4 MT 58-28 H
- CURB RAMP DETECTABLE WARNING FIELD (NATURAL PATINA)
- CURB RAMP DETECTABLE WARNING FIELD RADIAL (NATURAL PATINA)
- XXXXX SAWING

NOTES:
ADJUSTING MANHOLES, ADJUSTING SANITARY MANHOLES, AND ADJUSTING WATER VALVE BOXES ARE SHOWN ON SECTION 5 PLAN SHEETS.

SEE SECTION 5 PLAN FOR CULVERT INFORMATION.

DATA TABLE			
POINT	STATION	OFFSET	ELEVATION
A	64+65.72	52.58' LT	MATCH EXISTING
B	64+65.71	47.58' LT	MATCH EXISTING
C	64+90.72	52.49' LT	817.68
D	64+90.71	47.49' LT	817.60
E	64+95.72	52.47' LT	817.68
F	64+95.71	47.47' LT	817.60
G	65+00.72	52.45' LT	817.68
H	65+00.71	47.45' LT	817.60
I	65+45.75	52.29' LT	816.58
J	65+45.73	47.29' LT	816.65
K	65+34.81	37.92' LT	816.84
L	65+19.47	24.77' LT	816.93
M	65+51.54	52.27' LT	816.52
N	65+58.05	44.67' LT	816.49
O	65+46.63	34.89' LT	816.66
P	65+35.21	25.09' LT	816.83

86'
0.82%
5'
1.8%
2.1%
10'
0.45%
1.2%
26'
TYPE 4B1 CURB RAMP
STA 65+14.93
O/S 22.68' LT
MATCH EXISTING
STA 65+41.07
O/S 23.21' LT
MATCH EXISTING
STA 64+60.13
O/S 22.46' RT
MATCH EXISTING
STA 65+02.92
O/S 26.43' RT
MATCH EXISTING
1.0%
1.3%
23'
8'
STA 64+53.99
O/S 36.65' RT
MATCH EXISTING
STA 64+59.52
O/S 42.71' RT
MATCH EXISTING
TYPE 4B1 CURB RAMP
CURB CUT FOR DRAINAGE,
(SEE CONSTRUCTION DETAILS)

DATA TABLE			
POINT	STATION	OFFSET	ELEVATION
Q	64+44.14	27.91' RT	MATCH EXISTING
R	64+43.25	32.91' RT	MATCH EXISTING
S	64+59.16	28.32' RT	816.96
T	64+57.69	33.28' RT	817.04
U	64+66.69	25.07' RT	816.88
V	64+63.21	39.34' RT	816.98
W	64+77.75	26.10' RT	816.80

63+50 64+00 64+50 STH 22 65+00 65+50 66+00

GUY POST GUY POST GUY GUY GUY GV WALLS SIGN SIGN SIGN CANOPY MOUNTAIN BAY TRAIL

PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	PAVING DETAILS - CURB RAMP IMPROVEMENTS	SHEET 45	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\021203-PD.DWG
LAYOUT NAME - ****
PLOT DATE : 10/11/2018 1:56 PM PLOT BY : DREW NELSON PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 42

DATA TABLE			
POINT	STATION	OFFSET	ELEVATION
A	75+61.56	75.60' LT	MATCH EXISTING
B	75+66.55	75.84' LT	MATCH EXISTING
C	75+80.94	54.84' LT	815.35
D	75+80.45	49.84' LT	815.28
E	75+80.45	46.48' LT	815.07
F	75+85.45	54.59' LT	815.28
G	75+85.45	49.59' LT	815.21
H	75+85.45	44.35' LT	815.06

NOTES
MATCH ALL PULLBOXES UNLESS OTHERWISE NOTED FOR ADJUSTMENT

ADJUSTING MANHOLES, ADJUSTING SANITARY MANHOLES, AND ADJUSTING WATER VALVE BOXES ARE SHOWN ON SECTION 5 PLAN SHEETS.

EBERLEIN PARK DR

STA 75+58.15
O/S 69.70' LT
MATCH EXISTING

STA 76+00.16
O/S 85.82' LT

STA 75+63.40
O/S 59.87' LT
MATCH EXISTING

STA 75+77.33
O/S 47.04' LT
MATCH EXISTING

STA 75+87.49
O/S 42.64' LT
MATCH EXISTING

TYPE 4B1 CURB RAMP

R45'

R45'

12'

0.87%

2.8%

10'

5'

5'

FLAG

MH

WV

W

GV

75+00

STH 22

75+50

76+00

133+00

133+50

134+00

Y1

STA 132+89.14
O/S 31.00' RT
ELEV. 811.8

STA 132+89.15
O/S 66.00' RT

R35'

STA 133+24.08
O/S 64.01' RT
ELEV. 811.50

STA 133+51.13
O/S 81.73' RT
ELEV. 811.57

STA 133+99.06
O/S 31.00' RT
ELEV. 811.81

STA 133+99.06
O/S 79.00' RT

R48'

ASPHALTIC FLUME

RUSCH RD

C6

C6

C4

STA 75+87.64
O/S 43.26' RT
MATCH EXISTING

STA 75+96.87
O/S 39.42' RT
MATCH EXISTING

10'

CURB CUT FOR FUTURE CURB RAMP
(SEE CONSTRUCTION DETAILS)

R50'

STA 76+11.39
O/S 87.26' RT
MATCH EXISTING

SIGN

LEGEND

- ASPHALTIC SURFACE PATCHING (SEE CONSTRUCTION DETAIL)
- CONCRETE PAVEMENT 9-INCH
- ADJUSTING INLET COVERS
- C1 CONCRETE CURB & GUTTER 18-INCH TYPE A
- C2 CONCRETE CURB & GUTTER 18-INCH TYPE D
- C3 CONCRETE CURB & GUTTER 30-INCH TYPE A
- C4 CONCRETE CURB & GUTTER 30-INCH TYPE D
- C5 CONCRETE CURB & GUTTER INTERGRAL 30-INCH TYPE D
- C6 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D
- C7 CONCRETE CURB PEDESTRIAN
- C8 CONCRETE CURB TYPE A
- D1 CONCRETE DRIVEWAY 6-INCH
- H1 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 3-INCH
- W1 CONCRETE SIDEWALK 6-INCH
- Y1 MILL AND OVERLAY 1.75-INCH, HMA PAVEMENT 4 MT 58-28 H
- CURB RAMP DETECTABLE WARNING FIELD (NATURAL PATINA)
- CURB RAMP DETECTABLE WARNING FIELD RADIAL (NATURAL PATINA)
- XXXXX SAWING

PROJECT NO: 9180-23-71/72	HWY: STH 22	COUNTY: SHAWANO	PAVING DETAILS - CURB RAMP IMPROVEMENTS	SHEET 46	E

LEGEND

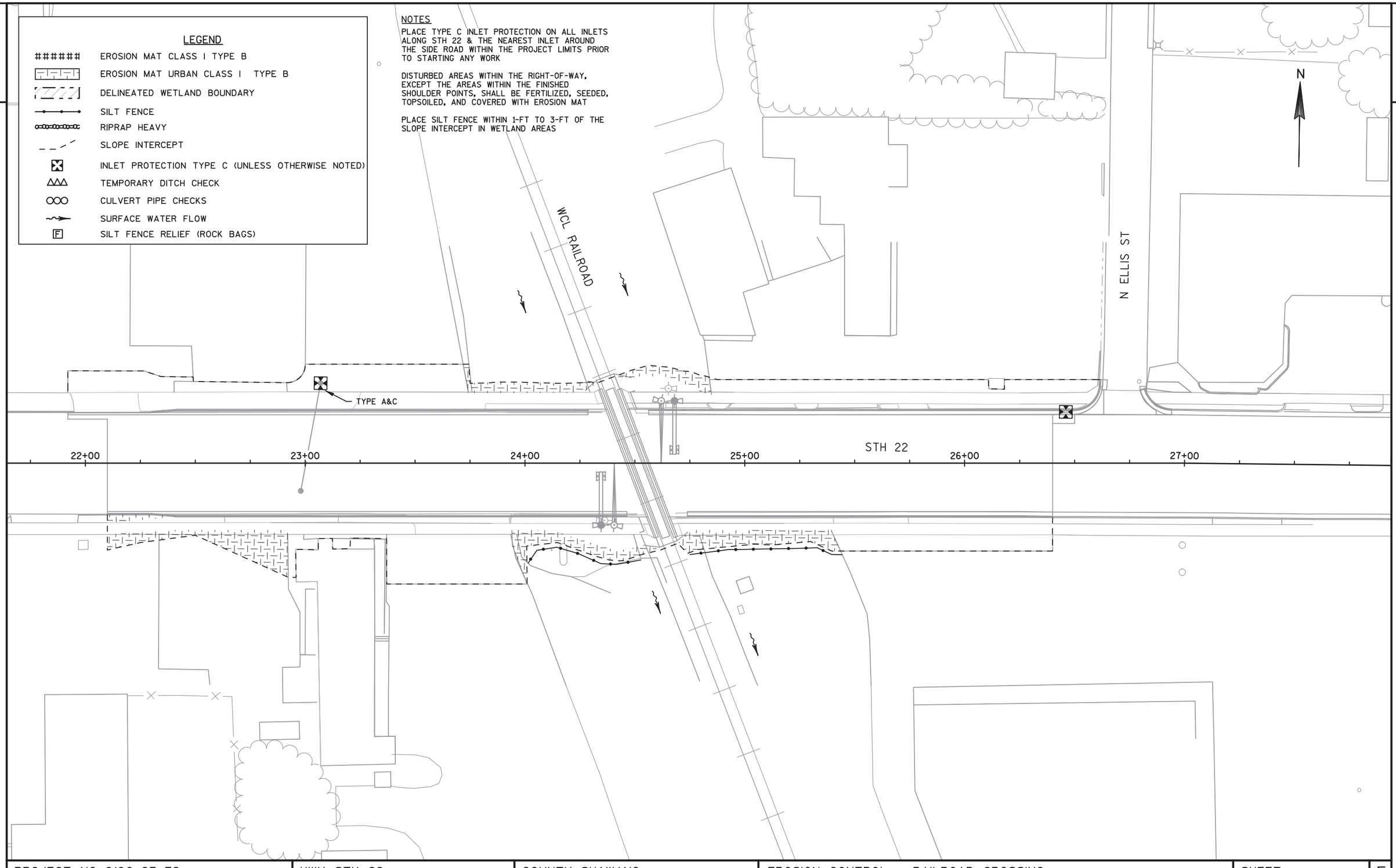
- EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- DELINEATED WETLAND BOUNDARY
- SILT FENCE
- RIPRAP HEAVY
- SLOPE INTERCEPT
- INLET PROTECTION TYPE C (UNLESS OTHERWISE NOTED)
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- SILT FENCE RELIEF (ROCK BAGS)

NOTES

PLACE TYPE C INLET PROTECTION ON ALL INLETS ALONG STH 22 & THE NEAREST INLET AROUND THE SIDE ROAD WITHIN THE PROJECT LIMITS PRIOR TO STARTING ANY WORK

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED, TOPSOILED, AND COVERED WITH EROSION MAT

PLACE SILT FENCE WITHIN 1-FT TO 3-FT OF THE SLOPE INTERCEPT IN WETLAND AREAS



PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	EROSION CONTROL - RAILROAD CROSSING	SHEET 47	E

LEGEND

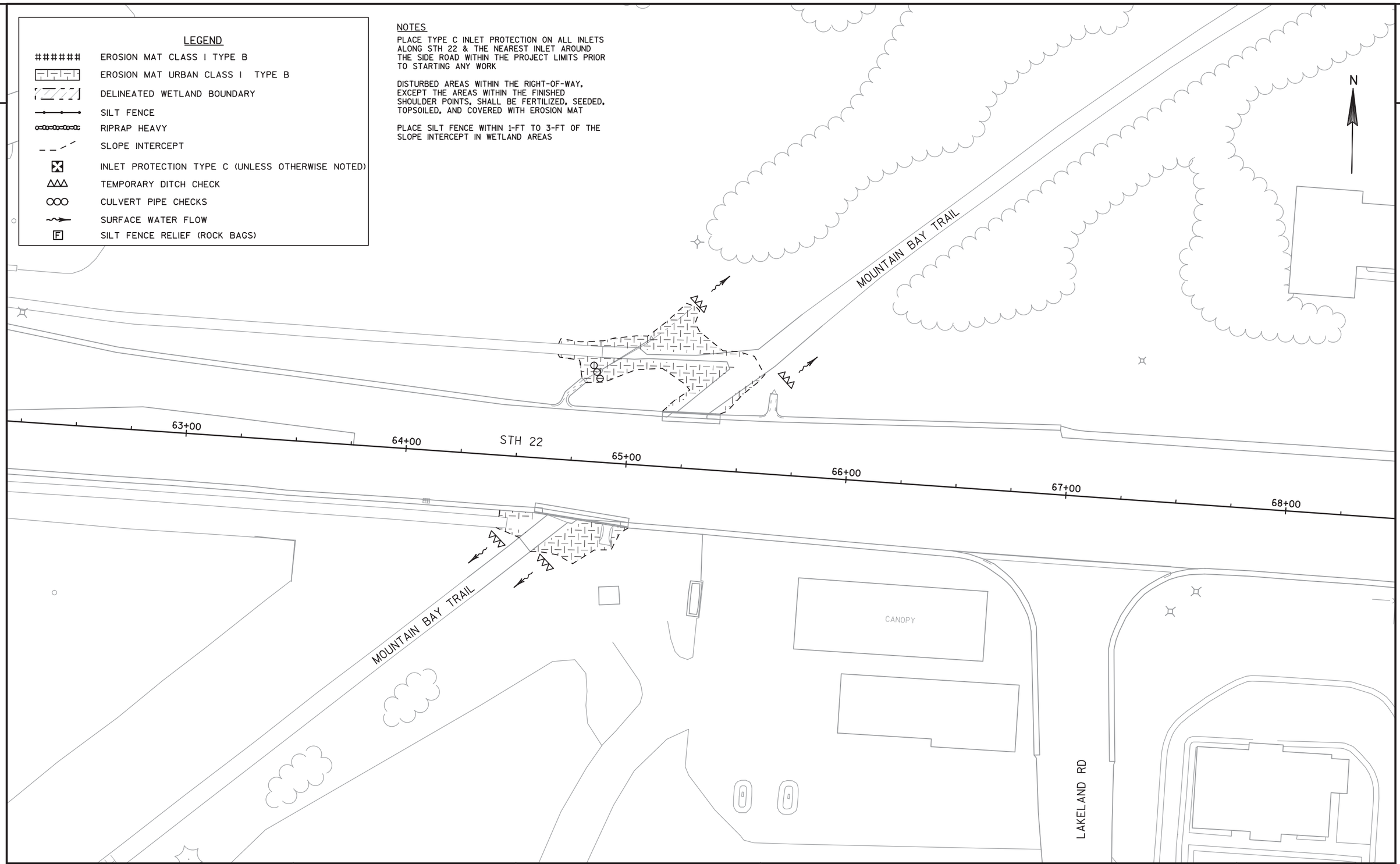
- ###### EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- DELINEATED WETLAND BOUNDARY
- SILT FENCE
- RIPRAP HEAVY
- SLOPE INTERCEPT
- INLET PROTECTION TYPE C (UNLESS OTHERWISE NOTED)
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- F SILT FENCE RELIEF (ROCK BAGS)

NOTES

PLACE TYPE C INLET PROTECTION ON ALL INLETS ALONG STH 22 & THE NEAREST INLET AROUND THE SIDE ROAD WITHIN THE PROJECT LIMITS PRIOR TO STARTING ANY WORK

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED, TOPSOILED, AND COVERED WITH EROSION MAT

PLACE SILT FENCE WITHIN 1-FT TO 3-FT OF THE SLOPE INTERCEPT IN WETLAND AREAS



PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	EROSION CONTROL - TRAIL CROSSING	SHEET 48	E

2

LEGEND

- ###### EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- DELINEATED WETLAND BOUNDARY
- SILT FENCE
- RIPRAP HEAVY
- SLOPE INTERCEPT
- INLET PROTECTION TYPE C (UNLESS OTHERWISE NOTED)
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- F SILT FENCE RELIEF (ROCK BAGS)

ADJUST SILT FENCE ACCORDINGLY TO INCORPORATE THE TEMPORARY DIVERSION CHANNEL DURING STAGING AND AS DIRECTED BY THE FIELD ENGINEER (SEE CONSTRUCTION DETAILS FOR TEMPORARY DIVERSION CHANNEL)

MURRAY CREEK

RIPRAP HEAVY AND GEOTEXTILE TYPE HR (SEE STRUCTURE PLANS)

TEMPORARY SMALL ANIMAL TURN-AROUND (TYP) (SEE CONSTRUCTION DETAIL)

C-58-0031

133+00 134+00 135+00 136+00 137+00 138+00 139+00

STH 22

4+00

RUSCH RD

RIPRAP HEAVY AND GEOTEXTILE TYPE HR (SEE STRUCTURE PLANS)

ADJUST SILT FENCE ACCORDINGLY TO INCORPORATE THE TEMPORARY DIVERSION CHANNEL DURING STAGING AND AS DIRECTED BY THE FIELD ENGINEER (SEE CONSTRUCTION DETAILS FOR TEMPORARY DIVERSION CHANNEL)

NOTES

PLACE TYPE C INLET PROTECTION ON ALL INLETS ALONG STH 22 & THE NEAREST INLET AROUND THE SIDE ROAD WITHIN THE PROJECT LIMITS PRIOR TO STARTING ANY WORK

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED, TOPSOILED, AND COVERED WITH EROSION MAT

PLACE SILT FENCE WITHIN 1-FT TO 3-FT OF THE SLOPE INTERCEPT IN WETLAND AREAS

* PLACE EROSION MAT CLASS 1 TYPE B, EROSION MAT URBAN CLASS 1 TYPE B AND SILT FENCE TO END OF GRADING AT STA 139+75 RT

PERMITTED WETLAND IMPACTS ARE LOCATED BETWEEN THE DELINEATED WETLAND BOUNDARY AND THE SLOPE INTERCEPT

PLACE SEEDING, WET MEADOW AND SHALLOW MARSH MIX IN AREAS AS SHOWN ON THE TYPICAL SECTION ON THE NEXT PAGE.

N

2

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	EROSION CONTROL - C-58-0031	SHEET 49	E

2

LEGEND

- ###### EROSION MAT CLASS I TYPE B
- EROSION MAT URBAN CLASS I TYPE B
- DELINEATED WETLAND BOUNDARY
- SILT FENCE
- RIPRAP HEAVY
- SLOPE INTERCEPT
- INLET PROTECTION TYPE C (UNLESS OTHERWISE NOTED)
- TEMPORARY DITCH CHECK
- CULVERT PIPE CHECKS
- SURFACE WATER FLOW
- F SILT FENCE RELIEF (ROCK BAGS)

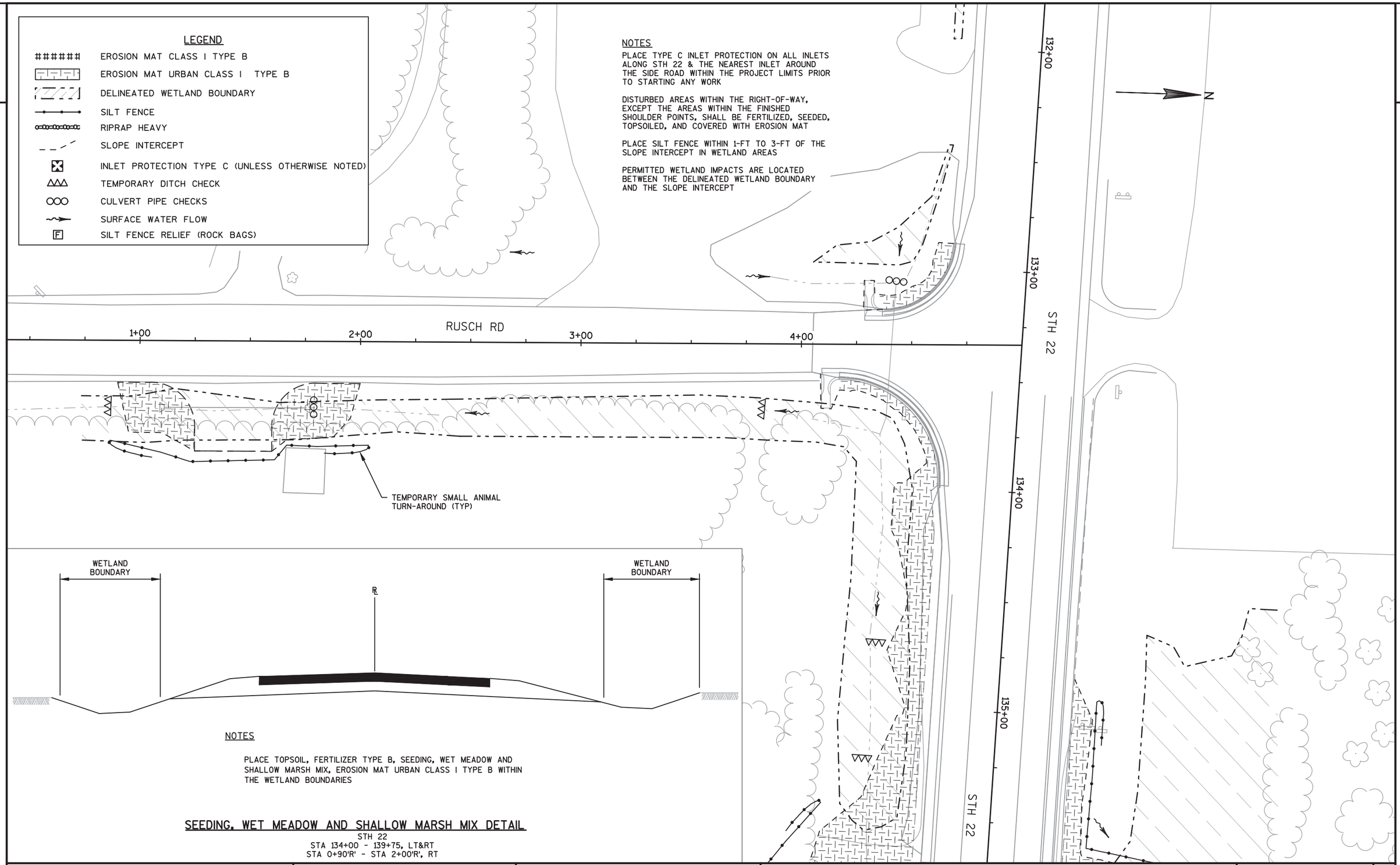
NOTES

PLACE TYPE C INLET PROTECTION ON ALL INLETS ALONG STH 22 & THE NEAREST INLET AROUND THE SIDE ROAD WITHIN THE PROJECT LIMITS PRIOR TO STARTING ANY WORK

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED, TOPSOILED, AND COVERED WITH EROSION MAT

PLACE SILT FENCE WITHIN 1-FT TO 3-FT OF THE SLOPE INTERCEPT IN WETLAND AREAS

PERMITTED WETLAND IMPACTS ARE LOCATED BETWEEN THE DELINEATED WETLAND BOUNDARY AND THE SLOPE INTERCEPT



NOTES

PLACE TOPSOIL, FERTILIZER TYPE B, SEEDING, WET MEADOW AND SHALLOW MARSH MIX, EROSION MAT URBAN CLASS I TYPE B WITHIN THE WETLAND BOUNDARIES

SEEDING, WET MEADOW AND SHALLOW MARSH MIX DETAIL

STH 22
STA 134+00 - 139+75, LT&RT
STA 0+90'R' - STA 2+00'R', RT

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	EROSION CONTROL	SHEET 50	E

2

2

N

MWE4
EPOXY

MSDY4
EPOXY

1089+00

1090+00

STH 22

+67

1091+00

1092+00

1093+00

1094+00

1095+00

12'

12'

MWE4
EPOXY

JCT
COUNTY
B

TO REMAIN

SPEED
LIMIT
35

TO REMAIN

LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- (X) SIGN - REMOVE AND REPLACE
- (X) SIGN - PLACE NEW
- X SIGN - REMOVE
- (X) SIGN - MOVE

- ARRW MARKING ARROW (WHITE)
- CMY MARKING CORRUGATED MEDIAN (YELLOW)
- CBY MARKING CURB (YELLOW)
- CWLPW MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)
- CWTW MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)
- EPOXY EPOXY

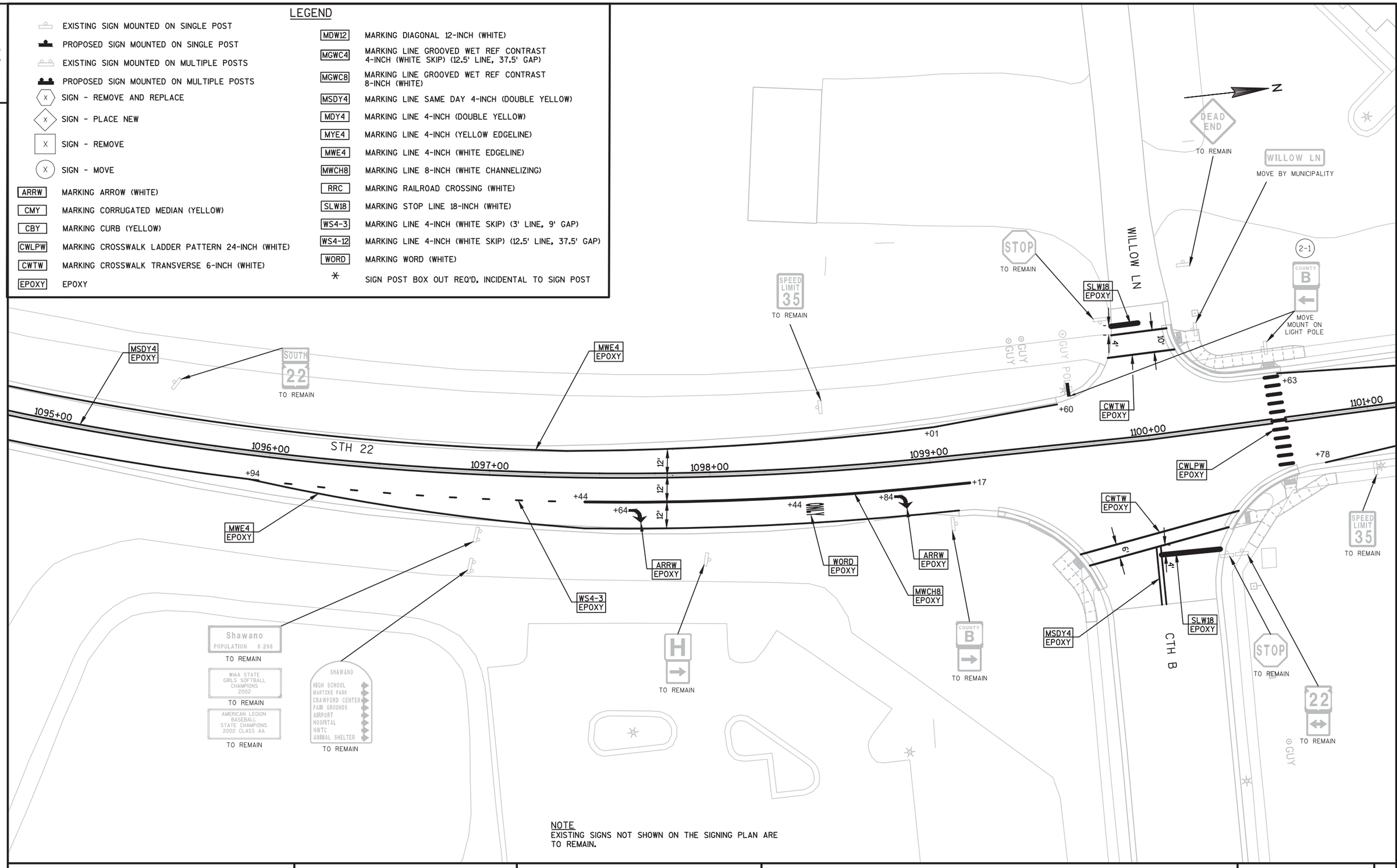
- MDW12 MARKING DIAGONAL 12-INCH (WHITE)
- MGWC4 MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
- MGWC8 MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
- MSDY4 MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
- MDY4 MARKING LINE 4-INCH (DOUBLE YELLOW)
- MYE4 MARKING LINE 4-INCH (YELLOW EDGELINE)
- MWE4 MARKING LINE 4-INCH (WHITE EDGELINE)
- MWCH8 MARKING LINE 8-INCH (WHITE CHANNELIZING)
- RRC MARKING RAILROAD CROSSING (WHITE)
- SLW18 MARKING STOP LINE 18-INCH (WHITE)
- WS4-3 MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
- WS4-12 MARKING LINE 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
- WORD MARKING WORD (WHITE)
- * SIGN POST BOX OUT REQ'D, INCIDENTAL TO SIGN POST

NOTE
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.

PROJECT NO:9180-23-71	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET 51	E

LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- (X) SIGN - REMOVE AND REPLACE
- (X) SIGN - PLACE NEW
- [X] SIGN - REMOVE
- (X) SIGN - MOVE
- ARRW — MARKING ARROW (WHITE)
- CMY — MARKING CORRUGATED MEDIAN (YELLOW)
- CBY — MARKING CURB (YELLOW)
- CWLPW — MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)
- CWTW — MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)
- EPOXY — EPOXY
- MDW12 — MARKING DIAGONAL 12-INCH (WHITE)
- MGWC4 — MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
- MGWC8 — MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
- MSDY4 — MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
- MDY4 — MARKING LINE 4-INCH (DOUBLE YELLOW)
- MYE4 — MARKING LINE 4-INCH (YELLOW EDGELINE)
- MWE4 — MARKING LINE 4-INCH (WHITE EDGELINE)
- MWCH8 — MARKING LINE 8-INCH (WHITE CHANNELIZING)
- RRC — MARKING RAILROAD CROSSING (WHITE)
- SLW18 — MARKING STOP LINE 18-INCH (WHITE)
- WS4-3 — MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
- WS4-12 — MARKING LINE 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
- WORD — MARKING WORD (WHITE)
- * — SIGN POST BOX OUT REQ'D, INCIDENTAL TO SIGN POST



NOTE
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.

PROJECT NO:9180-23-71	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\023201-PS.DWG
LAYOUT NAME - 0501(3)-PP
PLOT DATE : 10/15/2018 1:19 PM PLOT BY : SCOTT KAISER PLOT NAME : PLOT SCALE : 1 IN:40 FT

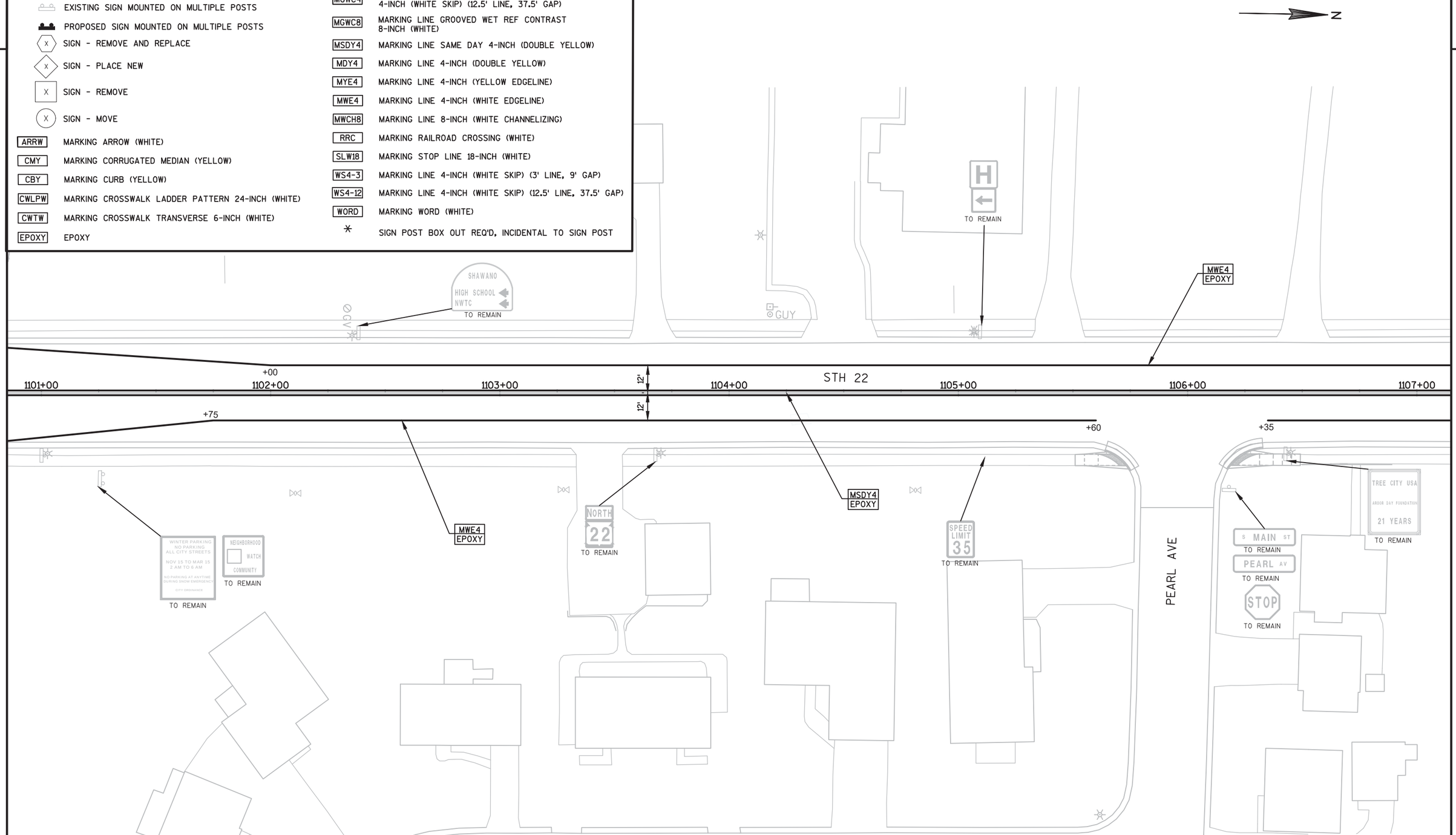
LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- (X) SIGN - REMOVE AND REPLACE
- (X) SIGN - PLACE NEW
- [X] SIGN - REMOVE
- (X) SIGN - MOVE

ARRW	MARKING ARROW (WHITE)
CMY	MARKING CORRUGATED MEDIAN (YELLOW)
CBY	MARKING CURB (YELLOW)
CWLPW	MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)
CWTW	MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)
EPOXY	EPOXY

MDW12	MARKING DIAGONAL 12-INCH (WHITE)
MGWC4	MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
MGWC8	MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
MSDY4	MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
MDY4	MARKING LINE 4-INCH (DOUBLE YELLOW)
MYE4	MARKING LINE 4-INCH (YELLOW EDGELINE)
MWE4	MARKING LINE 4-INCH (WHITE EDGELINE)
MWCH8	MARKING LINE 8-INCH (WHITE CHANNELIZING)
RRC	MARKING RAILROAD CROSSING (WHITE)
SLW18	MARKING STOP LINE 18-INCH (WHITE)
WS4-3	MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
WS4-12	MARKING LINE 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
WORD	MARKING WORD (WHITE)
*	SIGN POST BOX OUT REQ'D, INCIDENTAL TO SIGN POST

NOTE
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.



PROJECT NO:9180-23-71	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET 53	E

2

N

JCT
COUNTY
B
TO REMAIN

MWE4
EPOXY

SPEED
LIMIT
30
TO REMAIN

1107+00 1108+00 1109+00 1110+00 1111+00 1112+00 1113+00

STH 22

12'
12'

MSDY4
EPOXY

MWE4
EPOXY

SPEED
LIMIT
30
TO REMAIN

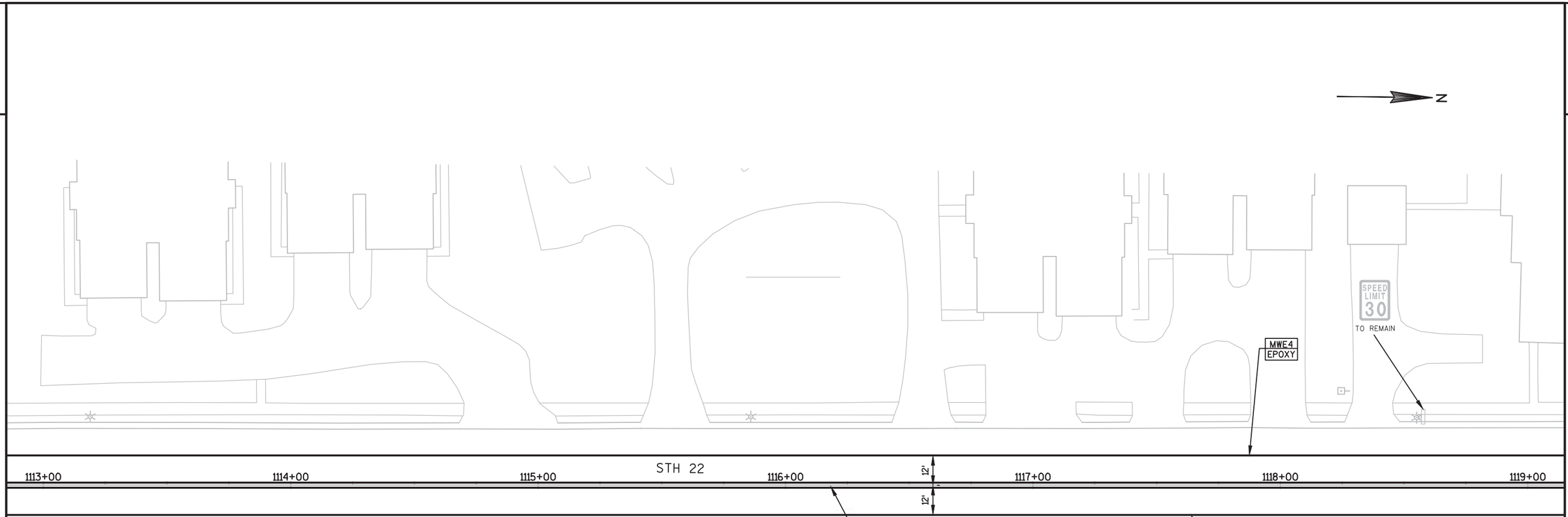
LEGEND

	EXISTING SIGN MOUNTED ON SINGLE POST
	PROPOSED SIGN MOUNTED ON SINGLE POST
	EXISTING SIGN MOUNTED ON MULTIPLE POSTS
	PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
X	SIGN - REMOVE AND REPLACE
X	SIGN - PLACE NEW
X	SIGN - REMOVE
X	SIGN - MOVE
ARRW	MARKING ARROW (WHITE)
CMY	MARKING CORRUGATED MEDIAN (YELLOW)
CBY	MARKING CURB (YELLOW)
CWLPW	MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)
CWTW	MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)
EPOXY	EPOXY
MDW12	MARKING DIAGONAL 12-INCH (WHITE)
MGWC4	MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
MGWC8	MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
MSDY4	MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
MDY4	MARKING LINE 4-INCH (DOUBLE YELLOW)
MYE4	MARKING LINE 4-INCH (YELLOW EDGELINE)
MWE4	MARKING LINE 4-INCH (WHITE EDGELINE)
MWCH8	MARKING LINE 8-INCH (WHITE CHANNELIZING)
RRC	MARKING RAILROAD CROSSING (WHITE)
SLW18	MARKING STOP LINE 18-INCH (WHITE)
WS4-3	MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
WS4-12	MARKING LINE 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
WORD	MARKING WORD (WHITE)
*	SIGN POST BOX OUT REQ'D, INCIDENTAL TO SIGN POST

NOTE
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.

PROJECT NO:9180-23-71	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET 54	E

2



LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- (X) SIGN - REMOVE AND REPLACE
- (X) SIGN - PLACE NEW
- [X] SIGN - REMOVE
- (X) SIGN - MOVE
- [ARRW] MARKING ARROW (WHITE)
- [CMY] MARKING CORRUGATED MEDIAN (YELLOW)
- [CBY] MARKING CURB (YELLOW)
- [CWLPW] MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)
- [CWTW] MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)
- [EPOXY] EPOXY
- [MDW12] MARKING DIAGONAL 12-INCH (WHITE)
- [MGWC4] MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
- [MGWC8] MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
- [MSDY4] MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
- [MDY4] MARKING LINE 4-INCH (DOUBLE YELLOW)
- [MYE4] MARKING LINE 4-INCH (YELLOW EDGELINE)
- [MWE4] MARKING LINE 4-INCH (WHITE EDGELINE)
- [MWCH8] MARKING LINE 8-INCH (WHITE CHANNELIZING)
- [RRC] MARKING RAILROAD CROSSING (WHITE)
- [SLW18] MARKING STOP LINE 18-INCH (WHITE)
- [WS4-3] MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
- [WS4-12] MARKING LINE 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
- [WORD] MARKING WORD (WHITE)
- * SIGN POST BOX OUT REQ'D, INCIDENTAL TO SIGN POST

NOTE
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.

PROJECT NO:9180-23-71	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET 55	E

2

N

SUNSET AVE

S MAIN ST
TO REMAIN

SUNSET AV
TO REMAIN

STOP
TO REMAIN

MWE4
EPOXY

ZION LUTHERAN
TO REMAIN

SHAWANO
GRADE SCHOOL
MIDDLE SCHOOL
KUCKUK PARK
TO REMAIN

SPEED LIMIT 30
TO REMAIN

+25 +00 +37

1119+00 1120+00 1121+00 STH 22 1122+00

12'

12'

+60

MSDY4
EPOXY

MWE4
EPOXY

CBY
EPOXY

E ZINGLER AVE

S MAIN ST
REMOVE BY MUNICIPALITY

E ZINGLER AV
REMOVE BY MUNICIPALITY

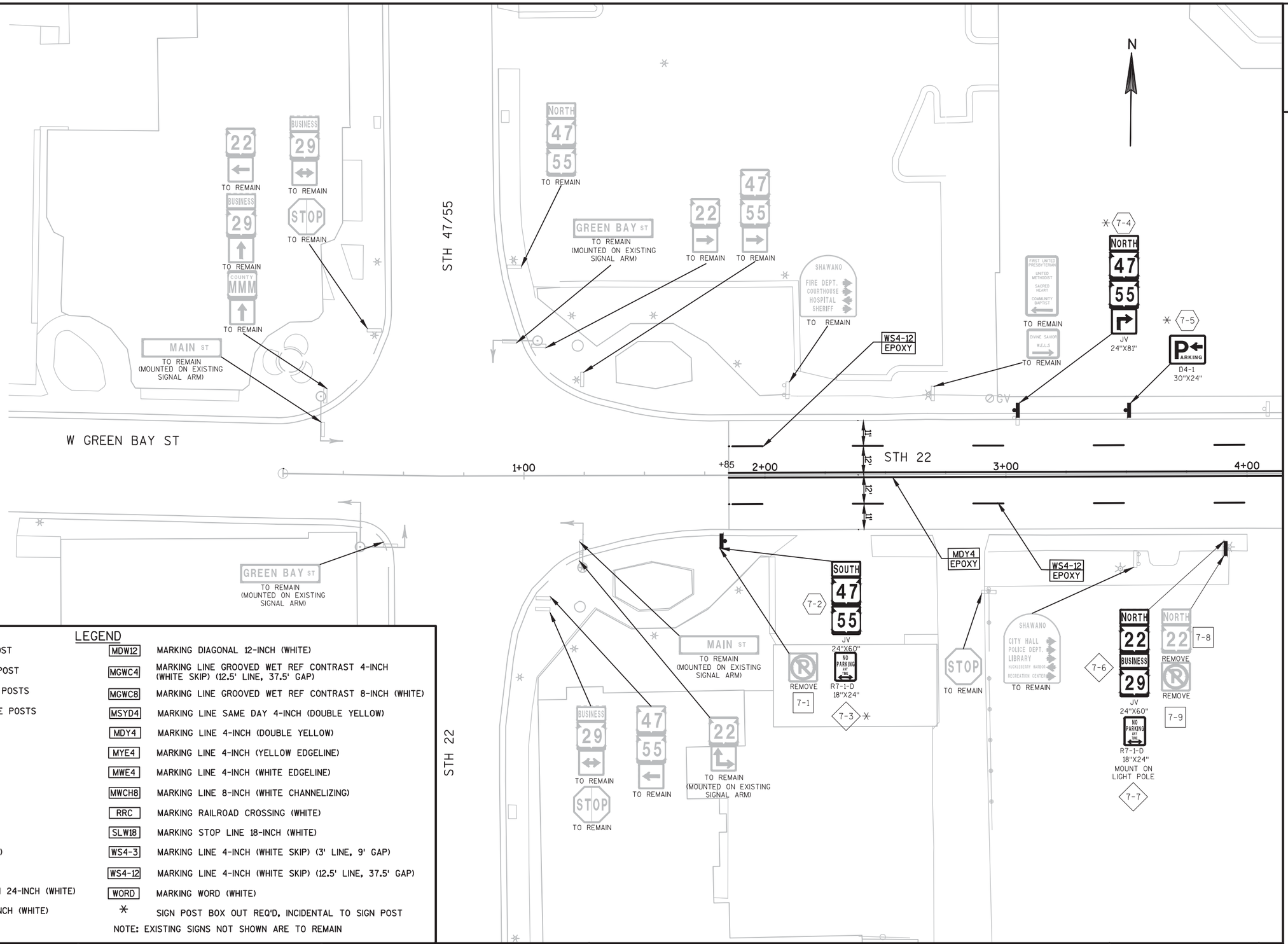
STOP
MOVE
6-1

SPEED LIMIT 30
TO REMAIN

NOTE
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.

LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- (X) SIGN - REMOVE AND REPLACE
- (X) SIGN - PLACE NEW
- [X] SIGN - REMOVE
- (X) SIGN - MOVE
- [ARRW] MARKING ARROW (WHITE)
- [CMY] MARKING CORRUGATED MEDIAN (YELLOW)
- [CBY] MARKING CURB (YELLOW)
- [CWLPW] MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)
- [CWTW] MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)
- [EPOXY] EPOXY
- [MDW12] MARKING DIAGONAL 12-INCH (WHITE)
- [MGWC4] MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
- [MGWC8] MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
- [MSDY4] MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
- [MDY4] MARKING LINE 4-INCH (DOUBLE YELLOW)
- [MYE4] MARKING LINE 4-INCH (YELLOW EDGELINE)
- [MWE4] MARKING LINE 4-INCH (WHITE EDGELINE)
- [MWCH8] MARKING LINE 8-INCH (WHITE CHANNELIZING)
- [RRC] MARKING RAILROAD CROSSING (WHITE)
- [SLW18] MARKING STOP LINE 18-INCH (WHITE)
- [WS4-3] MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
- [WS4-12] MARKING LINE 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
- [WORD] MARKING WORD (WHITE)
- * SIGN POST BOX OUT REQ'D, INCIDENTAL TO SIGN POST



NOTE
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.

LEGEND

EXISTING SIGN MOUNTED ON SINGLE POST	MDW12 — MARKING DIAGONAL 12-INCH (WHITE)
PROPOSED SIGN MOUNTED ON SINGLE POST	MGWC4 — MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
EXISTING SIGN MOUNTED ON MULTIPLE POSTS	MGWC8 — MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
PROPOSED SIGN MOUNTED ON MULTIPLE POSTS	MSYD4 — MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
X — SIGN - REMOVE AND REPLACE	MDY4 — MARKING LINE 4-INCH (DOUBLE YELLOW)
X — SIGN - PLACE NEW	MYE4 — MARKING LINE 4-INCH (YELLOW EDGELINE)
X — SIGN - REMOVE	MWE4 — MARKING LINE 4-INCH (WHITE EDGELINE)
	MWCH8 — MARKING LINE 8-INCH (WHITE CHANNELIZING)
X — SIGN - MOVE	RRC — MARKING RAILROAD CROSSING (WHITE)
ARRW — MARKING ARROW (WHITE)	SLW18 — MARKING STOP LINE 18-INCH (WHITE)
CMY — MARKING CORRUGATED MEDIAN (YELLOW)	WS4-3 — MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
CBY — MARKING CURB (YELLOW)	WS4-12 — MARKING LINE 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
CWLPW — MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)	WORD — MARKING WORD (WHITE)
CWTW — MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)	✳ — SIGN POST BOX OUT REQ'D, INCIDENTAL TO SIGN POST
EPOXY — EPOXY	NOTE: EXISTING SIGNS NOT SHOWN ARE TO REMAIN

PROJECT NO:9180-23-72	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET 57	E

2

N

N SAWYER ST
(ONE WAY)

N ANDREW ST

8-1
SOUTH
22
J2-1
24"X57"

8-2
ONE WAY
R6-2-R
24"X30"

8-3
ONE WAY
R6-2-L
24"X30"

CBY
EPOXY

SHAWANO
CITY HALL
POLICE DEPT.
LIBRARY
RECREATION CENTER
HUCKLEBERRY HARBOR
TO REMAIN

PEACE UNITED CHURCH OF CHRIST
TO REMAIN

PEACE UNITED CHURCH OF CHRIST
TO REMAIN

MDY4
EPOXY

8-8
SPEED LIMIT
25
R2-1
24"X30"

WS4-12
EPOXY

8-9
REMOVE

8-10
NO PARKING ANY TIME
R7-1-D
18"X24"
MOUNT ON LIGHT POLE

8-11
STOP
R1-1
30"X30"

STH 22

4+00
+94
5+00
+57
6+00
7+00
8+00
9+00
+89
10+00

11'
12'
12'
11'

⊘GV

SPEED LIMIT
25
R2-1
24"X30"
8-4

CBY
EPOXY

S SAWYER ST
REMOVE BY MUNICIPALITY

E GREEN BAY ST
REMOVE BY MUNICIPALITY

STOP
R1-1
30"X30"
8-5

S SAWYER ST

REMOVE
8-6

NO PARKING ANY TIME
R7-1-D
18"X24"
MOUNT ON LIGHT POLE
8-7

WS4-12
EPOXY

NOTE
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.

LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- (X) SIGN - REMOVE AND REPLACE
- (X) SIGN - PLACE NEW
- [X] SIGN - REMOVE
- (X) SIGN - MOVE
- ARRW MARKING ARROW (WHITE)
- CMY MARKING CORRUGATED MEDIAN (YELLOW)
- CBY MARKING CURB (YELLOW)
- CWLPW MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)
- CWTW MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)
- EPOXY EPOXY
- MDW12 MARKING DIAGONAL 12-INCH (WHITE)
- MGWC4 MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
- MGWC8 MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
- MSYD4 MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
- MDY4 MARKING LINE 4-INCH (DOUBLE YELLOW)
- MYE4 MARKING LINE 4-INCH (YELLOW EDGELINE)
- MWE4 MARKING LINE 4-INCH (WHITE EDGELINE)
- MWCH8 MARKING LINE 8-INCH (WHITE CHANNELIZING)
- RRC MARKING RAILROAD CROSSING (WHITE)
- SLW18 MARKING STOP LINE 18-INCH (WHITE)
- WS4-3 MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
- WS4-12 MARKING LINE 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
- WORD MARKING WORD (WHITE)
- ✳ SIGN POST BOX OUT REQ'D, INCIDENTAL TO SIGN POST

NOTE: EXISTING SIGNS NOT SHOWN ARE TO REMAIN

PROJECT NO:9180-23-72	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET 58	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\023208-PS.DWG
LAYOUT NAME - 050209-PN
PLOT DATE : 10/15/2018 1:22 PM PLOT BY : SCOTT KAISER PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

EXISTING SIGN MOUNTED ON SINGLE POST	MDW12 — MARKING DIAGONAL 12-INCH (WHITE)
PROPOSED SIGN MOUNTED ON SINGLE POST	MGWC4 — MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
EXISTING SIGN MOUNTED ON MULTIPLE POSTS	MGWC8 — MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
PROPOSED SIGN MOUNTED ON MULTIPLE POSTS	MSYD4 — MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
X — SIGN - REMOVE AND REPLACE	MDY4 — MARKING LINE 4-INCH (DOUBLE YELLOW)
X — SIGN - PLACE NEW	MYE4 — MARKING LINE 4-INCH (YELLOW EDGELINE)
X — SIGN - REMOVE	MWE4 — MARKING LINE 4-INCH (WHITE EDGELINE)
	MWCH8 — MARKING LINE 8-INCH (WHITE CHANNELIZING)
X — SIGN - MOVE	RRC — MARKING RAILROAD CROSSING (WHITE)
ARRW — MARKING ARROW (WHITE)	SLW18 — MARKING STOP LINE 18-INCH (WHITE)
CMY — MARKING CORRUGATED MEDIAN (YELLOW)	WS4-3 — MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
CBY — MARKING CURB (YELLOW)	WS4-12 — MARKING LINE 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
CWLPW — MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)	WORD — MARKING WORD (WHITE)
CWTW — MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)	✳ — SIGN POST BOX OUT REQ'D, INCIDENTAL TO SIGN POST
EPOXY — EPOXY	NOTE: EXISTING SIGNS NOT SHOWN ARE TO REMAIN

N

N ANDREW ST

N LINCOLN ST

S ANDREW ST

S LINCOLN ST

STH 22

10+00 11+00 12+00 13+00 14+00 15+00 16+00

+39 +31 +20

9-1 STOP R1-1 30"X30"

9-2 SPEED LIMIT 25 R2-1 24"X30" MOUNT ON LIGHT POLE

9-3 BUSINESS 22 29 47 55 REMOVE

9-4 REMOVE

9-5 NO PARKING ANY TIME R7-1-D 18"X24"

9-6 NORTH 47 55 JV 24"X60"

9-7 BUSINESS 22 29 47 55 REMOVE

9-8 SOUTH 22 BUSINESS 29 JV 24"X72"

9-9 STOP R1-1F 30"X30" MOUNT ON SIGNAL POLE

9-10 STOP R1-1F 30"X30" MOUNT ON SIGNAL POLE

9-11 R

9-12 SPEED LIMIT 25 R2-1 24"X30"

9-13 NO PARKING ANY TIME R7-1-D 18"X24"

9-14 STOP R1-1F 30"X30" MOUNT ON SIGNAL POLE

9-15 STOP R1-1F 30"X30" MOUNT ON SIGNAL POLE

S ANDREW ST — REMOVE BY MUNICIPALITY

E GREEN BAY ST — REMOVE BY MUNICIPALITY

LINCOLN ST — TO REMAIN (MOUNTED ON EXISTING SIGNAL ARM)

E GREEN BAY ST — TO REMAIN (MOUNTED ON EXISTING SIGNAL ARM)

LINCOLN ST — TO REMAIN (MOUNTED ON EXISTING SIGNAL ARM)

E GREEN BAY ST — TO REMAIN (MOUNTED ON EXISTING SIGNAL ARM)

TO REMAIN

REMOVE BY MUNICIPALITY

REMOVE

NOTE
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.

PROJECT NO:9180-23-72	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET 59	E

LEGEND

EXISTING SIGN MOUNTED ON SINGLE POST	MDW12 — MARKING DIAGONAL 12-INCH (WHITE)
PROPOSED SIGN MOUNTED ON SINGLE POST	MGWC4 — MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
EXISTING SIGN MOUNTED ON MULTIPLE POSTS	MGWC8 — MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
PROPOSED SIGN MOUNTED ON MULTIPLE POSTS	MSYD4 — MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
SIGN - REMOVE AND REPLACE	MDY4 — MARKING LINE 4-INCH (DOUBLE YELLOW)
SIGN - PLACE NEW	MYE4 — MARKING LINE 4-INCH (YELLOW EDGELINE)
SIGN - REMOVE	MWE4 — MARKING LINE 4-INCH (WHITE EDGELINE)
SIGN - MOVE	MWCH8 — MARKING LINE 8-INCH (WHITE CHANNELIZING)
ARRW — MARKING ARROW (WHITE)	RRC — MARKING RAILROAD CROSSING (WHITE)
CMY — MARKING CORRUGATED MEDIAN (YELLOW)	SLW18 — MARKING STOP LINE 18-INCH (WHITE)
CBY — MARKING CURB (YELLOW)	WS4-3 — MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
CWLPW — MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)	WS4-12 — MARKING LINE 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
CWTW — MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)	WORD — MARKING WORD (WHITE)
EPOXY — EPOXY	✳ — SIGN POST BOX OUT REQ'D, INCIDENTAL TO SIGN POST

NOTE: EXISTING SIGNS NOT SHOWN ARE TO REMAIN

NOTE
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.

N

N HAMLIN ST

N UNION ST

STH 22

16+00 +56 17+00 +16 18+00 19+00 +70 20+00 +28 21+00 22+00

11' 12' 12' 11'

10-1 STOP R1-1 30"X30"

10-8 REMOVE

10-9 NO PARKING ANY TIME R7-1-D 18"X24" MOUNT ON LIGHT POLE

N HAMLIN ST REMOVE BY MUNICIPALITY

E GREEN BAY ST REMOVE BY MUNICIPALITY

STOP R1-1 30"X30" 10-12

WS4-12 EPOXY

MDY4 EPOXY

10-17 47 55 REMOVE

10-18 REMOVE

NO PARKING ANY TIME R7-1-D 18"X24" MOUNT ON LIGHT POLE 10-19

MDY4 EPOXY

MDY4 EPOXY

WS4-12 EPOXY

S UNION ST

S UNION ST REMOVE BY MUNICIPALITY

E GREEN BAY ST REMOVE BY MUNICIPALITY

STOP R1-1 30"X30" ✳ 10-2

10-3 REMOVE

NO PARKING ANY TIME R7-1-D 18"X24" MOUNT ON LIGHT POLE 10-4

10-6 NORTH 22 BUSINESS 29 JV 24"X72"

SPEED LIMIT 25 R2-1 24"X30" 10-5

BUSINESS 22 29 47 55 REMOVE 10-7

SPEED LIMIT 25 R2-1 24"X30" 10-10

SOUTH 47 55 JV 24"X60" 10-11

S HAMLIN ST

10-14 REMOVE

NO PARKING ANY TIME R7-1-D 18"X24" MOUNT ON LIGHT POLE 10-15

R R REMOVE 10-16

S HAMLIN ST REMOVE BY MUNICIPALITY

E GREEN BAY ST REMOVE BY MUNICIPALITY

STOP R1-1 30"X30" 10-13

PROJECT NO:9180-23-72	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET 60	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\023208-PS.DWG
LAYOUT NAME - 050211-PN

PLOT DATE : 10/15/2018 1:22 PM PLOT BY : SCOTT KAISER PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

WCL RAILROAD

N ELLIS ST

N ELLIS ST
REMOVE BY MUNICIPALITY

E GREEN BAY ST
REMOVE BY MUNICIPALITY

STH 22

22+00 +75 23+00 24+00 +24 25+00 +79 26+00 +28 +50 27+00 +94 28+00

WS4-12 EPOXY

RRC EPOXY

MDY4 EPOXY

RAILROAD CROSSING
TO BE INSTALLED BY WCL RAILROAD

STOP 11-5
R1-1
30"X30"

11-4
W10-1
36"X36"

11-6
SPEED LIMIT 25
R2-1
24"X30"
MOUNT ON LIGHT POLE

SPEED LIMIT 25
11-7
R2-1
24"X30"
MOUNT ON LIGHT POLE

W10-1
36"X36"
11-1

NO PARKING ANY TIME
R7-1-D
18"X24"
MOUNT ON LIGHT POLE
11-2

11-3
REMOVE

RAILROAD CROSSING
TO BE INSTALLED BY WCL RAILROAD

GV

MH

N

NOTES
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.

STREET LIGHTING POLE ADJUSTED OR RELOCATED BY OTHERS.

LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- X SIGN - REMOVE AND REPLACE
- X SIGN - PLACE NEW
- X SIGN - REMOVE
- X SIGN - MOVE

ARRW	MARKING ARROW (WHITE)
CMY	MARKING CORRUGATED MEDIAN (YELLOW)
CBY	MARKING CURB (YELLOW)
CWLPW	MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)
CWTW	MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)
EPOXY	EPOXY
MDW12	MARKING DIAGONAL 12-INCH (WHITE)
MGWC4	MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
MGWC8	MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
MSYD4	MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
MDY4	MARKING LINE 4-INCH (DOUBLE YELLOW)
MYE4	MARKING LINE 4-INCH (YELLOW EDGELINE)
MWE4	MARKING LINE 4-INCH (WHITE EDGELINE)
MWCH8	MARKING LINE 8-INCH (WHITE CHANNELIZING)
RRC	MARKING RAILROAD CROSSING (WHITE)
SLW18	MARKING STOP LINE 18-INCH (WHITE)
WS4-3	MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
WS4-12	MARKING LINE 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
WORD	MARKING WORD (WHITE)
*	SIGN POST BOX OUT REQ'D, INCIDENTAL TO SIGN POST

NOTE: EXISTING SIGNS NOT SHOWN ARE TO REMAIN

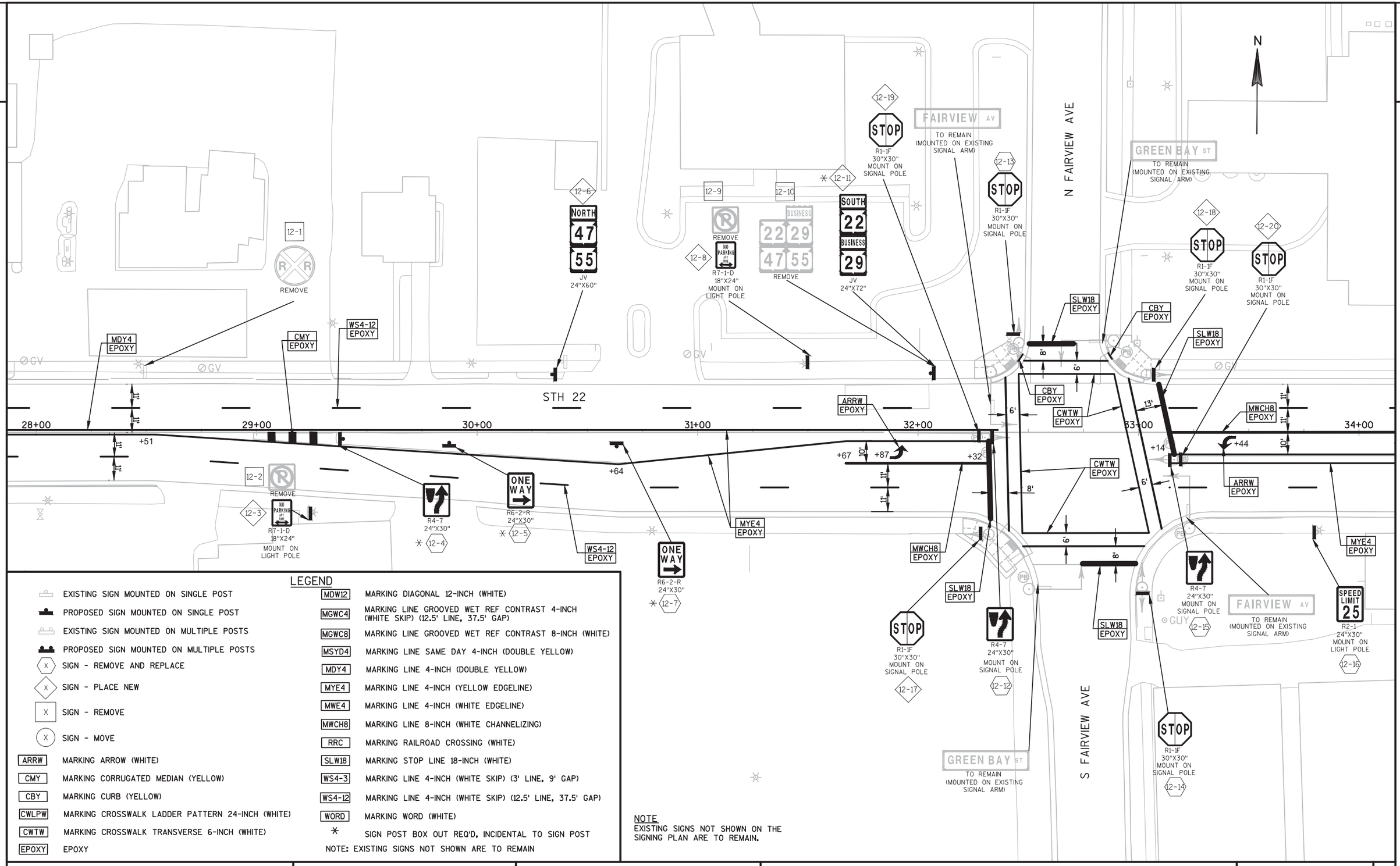
PROJECT NO:9180-23-72	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET 61	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\023208-PS.DWG
LAYOUT NAME - 050212-PN

PLOT DATE : 10/15/2018 1:22 PM PLOT BY : SCOTT KAISER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



LEGEND

EXISTING SIGN MOUNTED ON SINGLE POST	MDW12 — MARKING DIAGONAL 12-INCH (WHITE)
PROPOSED SIGN MOUNTED ON SINGLE POST	MGWC4 — MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
EXISTING SIGN MOUNTED ON MULTIPLE POSTS	MGWC8 — MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
PROPOSED SIGN MOUNTED ON MULTIPLE POSTS	MSYD4 — MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
X — SIGN - REMOVE AND REPLACE	MDY4 — MARKING LINE 4-INCH (DOUBLE YELLOW)
X — SIGN - PLACE NEW	MYE4 — MARKING LINE 4-INCH (YELLOW EDGELINE)
X — SIGN - REMOVE	MWE4 — MARKING LINE 4-INCH (WHITE EDGELINE)
X — SIGN - MOVE	MWCH8 — MARKING LINE 8-INCH (WHITE CHANNELIZING)
ARRW — MARKING ARROW (WHITE)	RRC — MARKING RAILROAD CROSSING (WHITE)
CMY — MARKING CORRUGATED MEDIAN (YELLOW)	SLW18 — MARKING STOP LINE 18-INCH (WHITE)
CBY — MARKING CURB (YELLOW)	WS4-3 — MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
CWLPW — MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)	WS4-12 — MARKING LINE 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
CWTW — MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)	WORD — MARKING WORD (WHITE)
EPOXY — EPOXY	* — SIGN POST BOX OUT REQ'D, INCIDENTAL TO SIGN POST
	NOTE: EXISTING SIGNS NOT SHOWN ARE TO REMAIN

NOTE
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.

PROJECT NO:9180-23-72	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET 62	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\023208-PS.DWG
LAYOUT NAME - 050213-PN
PLOT DATE : 10/15/2018 1:22 PM PLOT BY : SCOTT KAISER PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

STH 22

34+00 +44 35+00 +48 36+00 37+00 38+00 39+00 40+00

+24 +44 +45

ARRW EPOXY

MWCH8 EPOXY

MYE4 EPOXY

MYE4 EPOXY

CMY EPOXY

MDY4 EPOXY

WS4-12 EPOXY

WS4-12 EPOXY

13-1 NO PARKING ANY TIME R7-1-D 18"X24" MOUNT ON LIGHT POLE

13-2 REMOVE

13-3 ONE WAY R6-2-R 24"X30"

13-4 ONE WAY REMOVE

13-5 47 55 REMOVE

13-6 NORTH 22 BUSINESS 29 JV 24"X72" MOUNT ON LIGHT POLE

13-7 R4-7 24"X30"

13-8 SOUTH 47 55 JV 24"X60" MOUNT ON LIGHT POLE

13-9 SPEED LIMIT 25 R2-1 24"X30" MOUNT ON LIGHT POLE

13-10 NO PARKING ANY TIME R7-1-D 18"X24" MOUNT ON LIGHT POLE

13-11 REMOVE

13-12 REMOVE

13-13 NO PARKING ANY TIME R7-1-D 18"X24" MOUNT ON LIGHT POLE

13-14 SPEED LIMIT 25 R2-1 24"X30" MOUNT ON LIGHT POLE

NOTE
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.

LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- (X) SIGN - REMOVE AND REPLACE
- (X) SIGN - PLACE NEW
- [X] SIGN - REMOVE
- (X) SIGN - MOVE
- [ARRW] MARKING ARROW (WHITE)
- [CMY] MARKING CORRUGATED MEDIAN (YELLOW)
- [CBY] MARKING CURB (YELLOW)
- [CWLPW] MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)
- [CWTW] MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)
- [EPOXY] EPOXY

- [MDW12] MARKING DIAGONAL 12-INCH (WHITE)
- [MGWC4] MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
- [MGWC8] MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
- [MSYD4] MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
- [MDY4] MARKING LINE 4-INCH (DOUBLE YELLOW)
- [MYE4] MARKING LINE 4-INCH (YELLOW EDGELINE)
- [MWE4] MARKING LINE 4-INCH (WHITE EDGELINE)
- [MWCH8] MARKING LINE 8-INCH (WHITE CHANNELIZING)
- [RRC] MARKING RAILROAD CROSSING (WHITE)
- [SLW18] MARKING STOP LINE 18-INCH (WHITE)
- [WS4-3] MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
- [WS4-12] MARKING LINE 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
- [WORD] MARKING WORD (WHITE)
- * SIGN POST BOX OUT REQ'D, INCIDENTAL TO SIGN POST

NOTE: EXISTING SIGNS NOT SHOWN ARE TO REMAIN

PROJECT NO:9180-23-72	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET 63	E

2

N

GREEN BAY CT

GREENBAY CT
REMOVE BY MUNICIPALITY

E GREEN BAY ST
REMOVE BY MUNICIPALITY

STOP 14-1
R1-1
30"X30"

⊘GV
⊘GV
⊘GV

WS4-12
EPOXY

⊘GV

14-3
SPEED LIMIT 25
R2-1
24"X30"
MOUNT ON
LIGHT POLE

14-4
REMOVE
14-5
NO PARKING
R7-1-D
18"X24"
MOUNT ON
LIGHT POLE

STH 22

40+00 +29 +65 41+00 42+00 43+00 44+00 45+00

MDY4
EPOXY

WS4-12
EPOXY

NO PARKING
R7-1-D
18"X24"
MOUNT ON
LIGHT POLE
14-2

MDY4
EPOXY

⊘GV

LEGEND

	EXISTING SIGN MOUNTED ON SINGLE POST	MDW12	MARKING DIAGONAL 12-INCH (WHITE)
	PROPOSED SIGN MOUNTED ON SINGLE POST	MGWC4	MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
	EXISTING SIGN MOUNTED ON MULTIPLE POSTS	MGWC8	MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
	PROPOSED SIGN MOUNTED ON MULTIPLE POSTS	MSYD4	MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
X	SIGN - REMOVE AND REPLACE	MDY4	MARKING LINE 4-INCH (DOUBLE YELLOW)
X	SIGN - PLACE NEW	MYE4	MARKING LINE 4-INCH (YELLOW EDGELINE)
X	SIGN - REMOVE	MWE4	MARKING LINE 4-INCH (WHITE EDGELINE)
		MWCH8	MARKING LINE 8-INCH (WHITE CHANNELIZING)
X	SIGN - MOVE	RRC	MARKING RAILROAD CROSSING (WHITE)
ARRW	MARKING ARROW (WHITE)	SLW18	MARKING STOP LINE 18-INCH (WHITE)
CMY	MARKING CORRUGATED MEDIAN (YELLOW)	WS4-3	MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
CBY	MARKING CURB (YELLOW)	WS4-12	MARKING LINE 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
CWLPW	MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)	WORD	MARKING WORD (WHITE)
CWTW	MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)	✳	SIGN POST BOX OUT REQ'D, INCIDENTAL TO SIGN POST
EPOXY	EPOXY	NOTE: EXISTING SIGNS NOT SHOWN ARE TO REMAIN	

NOTE
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.

PROJECT NO:9180-23-72	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET 64	E

2

LEGEND

EXISTING SIGN MOUNTED ON SINGLE POST	MDW12 — MARKING DIAGONAL 12-INCH (WHITE)
PROPOSED SIGN MOUNTED ON SINGLE POST	MGWC4 — MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
EXISTING SIGN MOUNTED ON MULTIPLE POSTS	MGWC8 — MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
PROPOSED SIGN MOUNTED ON MULTIPLE POSTS	MSYD4 — MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
(X) SIGN - REMOVE AND REPLACE	MDY4 — MARKING LINE 4-INCH (DOUBLE YELLOW)
◇X SIGN - PLACE NEW	MYE4 — MARKING LINE 4-INCH (YELLOW EDGELINE)
[X] SIGN - REMOVE	MWE4 — MARKING LINE 4-INCH (WHITE EDGELINE)
	MWCH8 — MARKING LINE 8-INCH (WHITE CHANNELIZING)
(X) SIGN - MOVE	RRC — MARKING RAILROAD CROSSING (WHITE)
ARRW — MARKING ARROW (WHITE)	SLW18 — MARKING STOP LINE 18-INCH (WHITE)
CMY — MARKING CORRUGATED MEDIAN (YELLOW)	WS4-3 — MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
CBY — MARKING CURB (YELLOW)	WS4-12 — MARKING LINE 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
CWLPW — MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)	WORD — MARKING WORD (WHITE)
CWTW — MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)	✳ SIGN POST BOX OUT REQ'D, INCIDENTAL TO SIGN POST
EPOXY — EPOXY	NOTE: EXISTING SIGNS NOT SHOWN ARE TO REMAIN

NOTE
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.

N

ARLINGTON ST

STH 22

46+00 47+00 48+00 49+00 +80 50+00 +30 51+00 52+00

15-2 SPEED LIMIT 25 — R2-1 30"X36" MOUNT ON LIGHT POLE

ARLINGTON ST — REMOVE BY MUNICIPALITY

E GREEN BAY ST — REMOVE BY MUNICIPALITY

15-3 STOP — R1-1 30"X30"

15-6 NORTH 47 55 — JV 24"X60" MOUNT ON LIGHT POLE

47 55 15-7 — REMOVE

WS4-12 EPOXY

MYE4 EPOXY

MDY4 EPOXY

WS4-12 EPOXY

MYE4 EPOXY

SPEED LIMIT 25 — R2-1 24"X30" MOUNT ON LIGHT POLE

15-1

UNITED METHODIST CHURCH — TO REMAIN

15-4 — REMOVE

15-5 NO PARKING ANY TIME — R7-1-D 18"X24" MOUNT ON LIGHT POLE

R4-7 24"X30"

15-8

PROJECT NO:9180-23-72	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET 65	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\023208-PS.DWG
LAYOUT NAME - 050216-PN

PLOT DATE : 10/15/2018 1:23 PM PLOT BY : SCOTT KAISER PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

STH 22

S WAUKECHON ST

E GREEN BAY ST

S WAUKECHON ST

S WAUKECHON ST

UNITED METHODIST CHURCH

52+00 53+00 54+00 55+00 56+00 57+00 58+00

+26 +36 +63 +03 +26 +46 +46

16-1 NO LEFT TURN REMOVE

16-2 R6-2-R 24"X30" ONE WAY

16-3 NO LEFT TURN REMOVE

16-4 R6-2-R 24"X30" ONE WAY

16-5 JV 24"X72" MOUNT ON LIGHT POLE

16-6 22 BUSINESS 29 REMOVE

16-7 R4-7 24"X30"

16-8 R1-1F 30"X30" MOUNT ON SIGNAL POLE

16-9 R2-1 24"X30" SPEED LIMIT 25 MOUNT ON LIGHT POLE

16-10 REMOVE

16-11 R3-8-RR 54"X30"

16-12 R1-1F 30"X30" MOUNT ON SIGNAL POLE

16-13 R1-1F 30"X30" MOUNT ON SIGNAL POLE

STOP TO REMAIN

S WAUKECHON ST TO REMAIN (MOUNTED ON EXISTING SIGNAL ARM)

E GREEN BAY ST TO REMAIN (MOUNTED ON EXISTING SIGNAL ARM)

S WAUKECHON ST TO REMAIN (MOUNTED ON EXISTING SIGNAL ARM)

UNITED METHODIST CHURCH TO REMAIN

WS4-12 EPOXY

MYE4 EPOXY

MWCH8 EPOXY

SLW18 EPOXY

ARRW EPOXY

WORD EPOXY

MDY4 EPOXY

11' 11' 11' 11' 11'

ØGV

PB

S WAUKECHON ST

NOTE
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.

LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- (X) SIGN - REMOVE AND REPLACE
- ◇X◇ SIGN - PLACE NEW
- [X] SIGN - REMOVE
- (X) SIGN - MOVE
- [ARRW] MARKING ARROW (WHITE)
- [CMY] MARKING CORRUGATED MEDIAN (YELLOW)
- [CBY] MARKING CURB (YELLOW)
- [CWLPW] MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)
- [CWTW] MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)
- [EPOXY] EPOXY
- [MDW12] MARKING DIAGONAL 12-INCH (WHITE)
- [MGWC4] MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
- [MGWC8] MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
- [MSYD4] MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
- [MDY4] MARKING LINE 4-INCH (DOUBLE YELLOW)
- [MYE4] MARKING LINE 4-INCH (YELLOW EDGELINE)
- [MWE4] MARKING LINE 4-INCH (WHITE EDGELINE)
- [MWCH8] MARKING LINE 8-INCH (WHITE CHANNELIZING)
- [RRC] MARKING RAILROAD CROSSING (WHITE)
- [SLW18] MARKING STOP LINE 18-INCH (WHITE)
- [WS4-3] MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
- [WS4-12] MARKING LINE 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
- [WORD] MARKING WORD (WHITE)
- ✳ SIGN POST BOX OUT REQ'D, INCIDENTAL TO SIGN POST

NOTE: EXISTING SIGNS NOT SHOWN ARE TO REMAIN

PROJECT NO:9180-23-72	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET 66	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\023208-PS.DWG
LAYOUT NAME - 050217-PN

PLOT DATE : 10/15/2018 1:23 PM PLOT BY : SCOTT KAISER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

WOODLAWN DR

17-1 STOP
R1-1F
30"X30"
MOUNT ON
SIGNAL POLE

E GREEN BAY ST
TO REMAIN
(MOUNTED ON EXISTING
SIGNAL POLE)

17-9 STOP
R1-1F
30"X30"
MOUNT ON
SIGNAL POLE

HARDEES
LEFT
AT SIGNAL
TO REMAIN

WOODLAWN DR
TO REMAIN
(MOUNTED ON EXISTING
SIGNAL ARM)

MCDONALD'S
LEFT
AT SIGNAL
TO REMAIN

17-6 R
REMOVE

17-7 NO PARKING ANY TIME
R7-1-D
18"X24"
MOUNT ON
LIGHT POLE

GUY

MWCH8 EPOXY
CBY EPOXY
MDY4 EPOXY
SLW18 EPOXY
ARRW EPOXY
WS4-12 EPOXY
MYE4 EPOXY
CMY EPOXY

STH 22

58+00 59+00 60+00 61+00 62+00 64+00

+60 +80 +95 +67 +90 +18 +70 +81

STOP
R1-1F
30"X30"
MOUNT ON
SIGNAL POLE
17-8

STOP
R1-1F
30"X30"
MOUNT ON
SIGNAL POLE
17-2

E GREEN BAY ST
TO REMAIN
(MOUNTED ON EXISTING
SIGNAL POLE)

WOODLAWN DR
TO REMAIN
(MOUNTED ON EXISTING
SIGNAL ARM)

17-4
W11-2 (MOD)
30"X30"
AHEAD
S16-9P
24"X12"
17-3

SPEED LIMIT 25
R2-1
24"X30"
MOUNT ON
LIGHT POLE
17-5

MOUNTAIN BAY TRAIL

LEGEND

EXISTING SIGN MOUNTED ON SINGLE POST	MDW12 — MARKING DIAGONAL 12-INCH (WHITE)
PROPOSED SIGN MOUNTED ON SINGLE POST	MGWC4 — MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
EXISTING SIGN MOUNTED ON MULTIPLE POSTS	MGWC8 — MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
PROPOSED SIGN MOUNTED ON MULTIPLE POSTS	MSYD4 — MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
X — SIGN - REMOVE AND REPLACE	MDY4 — MARKING LINE 4-INCH (DOUBLE YELLOW)
X — SIGN - PLACE NEW	MYE4 — MARKING LINE 4-INCH (YELLOW EDGELINE)
X — SIGN - REMOVE	MWE4 — MARKING LINE 4-INCH (WHITE EDGELINE)
	MWCH8 — MARKING LINE 8-INCH (WHITE CHANNELIZING)
X — SIGN - MOVE	RRC — MARKING RAILROAD CROSSING (WHITE)
ARRW — MARKING ARROW (WHITE)	SLW18 — MARKING STOP LINE 18-INCH (WHITE)
CMY — MARKING CORRUGATED MEDIAN (YELLOW)	WS4-3 — MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
CBY — MARKING CURB (YELLOW)	WS4-12 — MARKING LINE 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
CWLPW — MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)	WORD — MARKING WORD (WHITE)
CWTW — MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)	* — SIGN POST BOX OUT REQ'D, INCIDENTAL TO SIGN POST
EPOXY — EPOXY	NOTE: EXISTING SIGNS NOT SHOWN ARE TO REMAIN

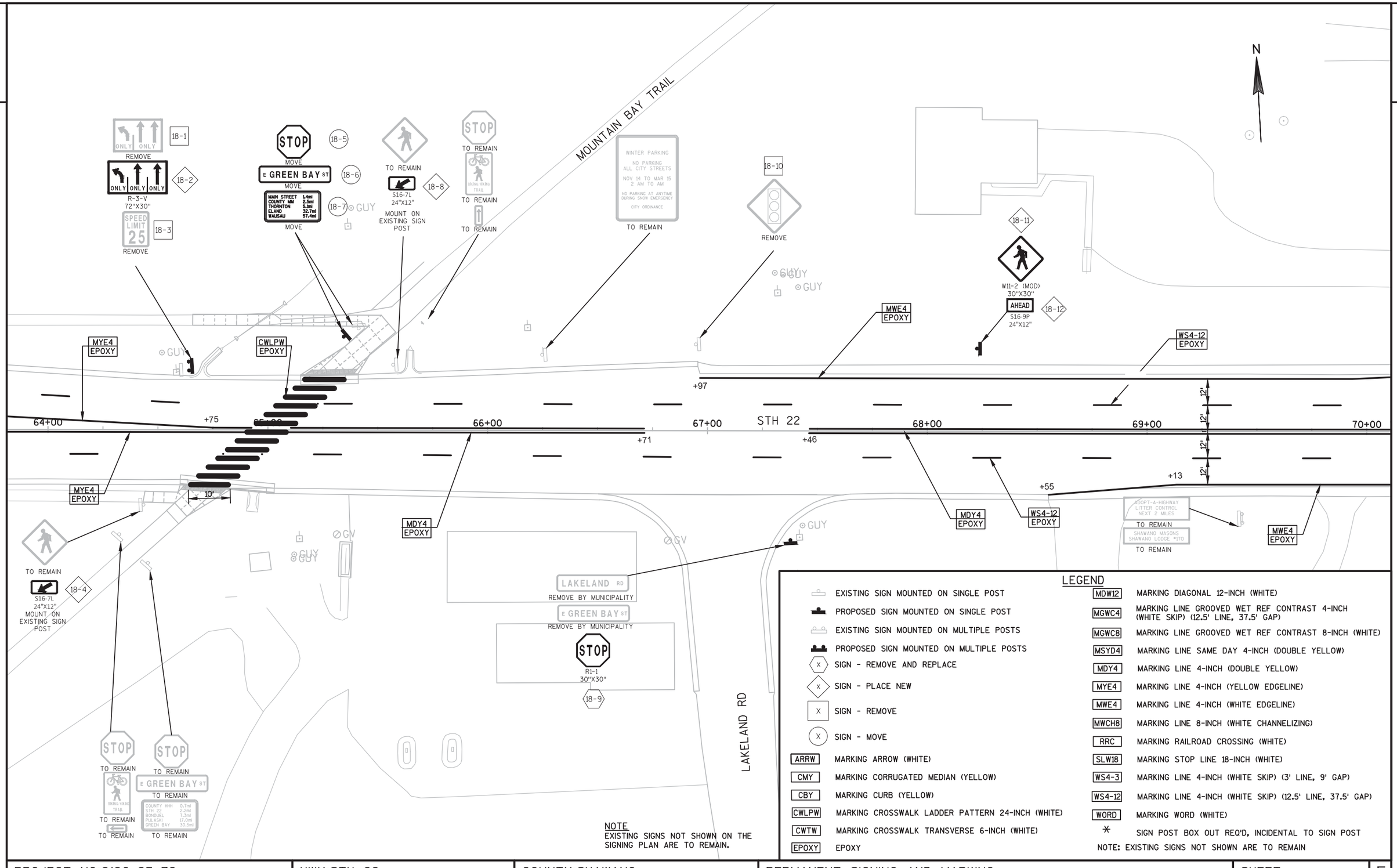
NOTES
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.

PLACE STOP BAR ACCORDING TO SDD "STOP LINE AND CROSSWALK PAVEMENT MARKING" TO ACCOMMODATE A POTENTIAL FUTURE PAINTED CROSSWALK BY OTHERS.

PROJECT NO:9180-23-72	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET 67	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\023208-PS.DWG
LAYOUT NAME - 050218-PN
PLOT DATE : 10/15/2018 1:23 PM PLOT BY : SCOTT KAISER PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



NOTE
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.

LEGEND

	EXISTING SIGN MOUNTED ON SINGLE POST
	PROPOSED SIGN MOUNTED ON SINGLE POST
	EXISTING SIGN MOUNTED ON MULTIPLE POSTS
	PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
X	SIGN - REMOVE AND REPLACE
X	SIGN - PLACE NEW
X	SIGN - REMOVE
X	SIGN - MOVE
ARRW	MARKING ARROW (WHITE)
CMY	MARKING CORRUGATED MEDIAN (YELLOW)
CBY	MARKING CURB (YELLOW)
CWLPW	MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)
CWTW	MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)
EPOXY	EPOXY

MDW12	MARKING DIAGONAL 12-INCH (WHITE)
MGWC4	MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
MGWC8	MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
MSYD4	MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
MDY4	MARKING LINE 4-INCH (DOUBLE YELLOW)
MYE4	MARKING LINE 4-INCH (YELLOW EDGELINE)
MWE4	MARKING LINE 4-INCH (WHITE EDGELINE)
MWCH8	MARKING LINE 8-INCH (WHITE CHANNELIZING)
RRC	MARKING RAILROAD CROSSING (WHITE)
SLW18	MARKING STOP LINE 18-INCH (WHITE)
WS4-3	MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
WS4-12	MARKING LINE 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
WORD	MARKING WORD (WHITE)
*	SIGN POST BOX OUT REQ'D, INCIDENTAL TO SIGN POST

NOTE: EXISTING SIGNS NOT SHOWN ARE TO REMAIN

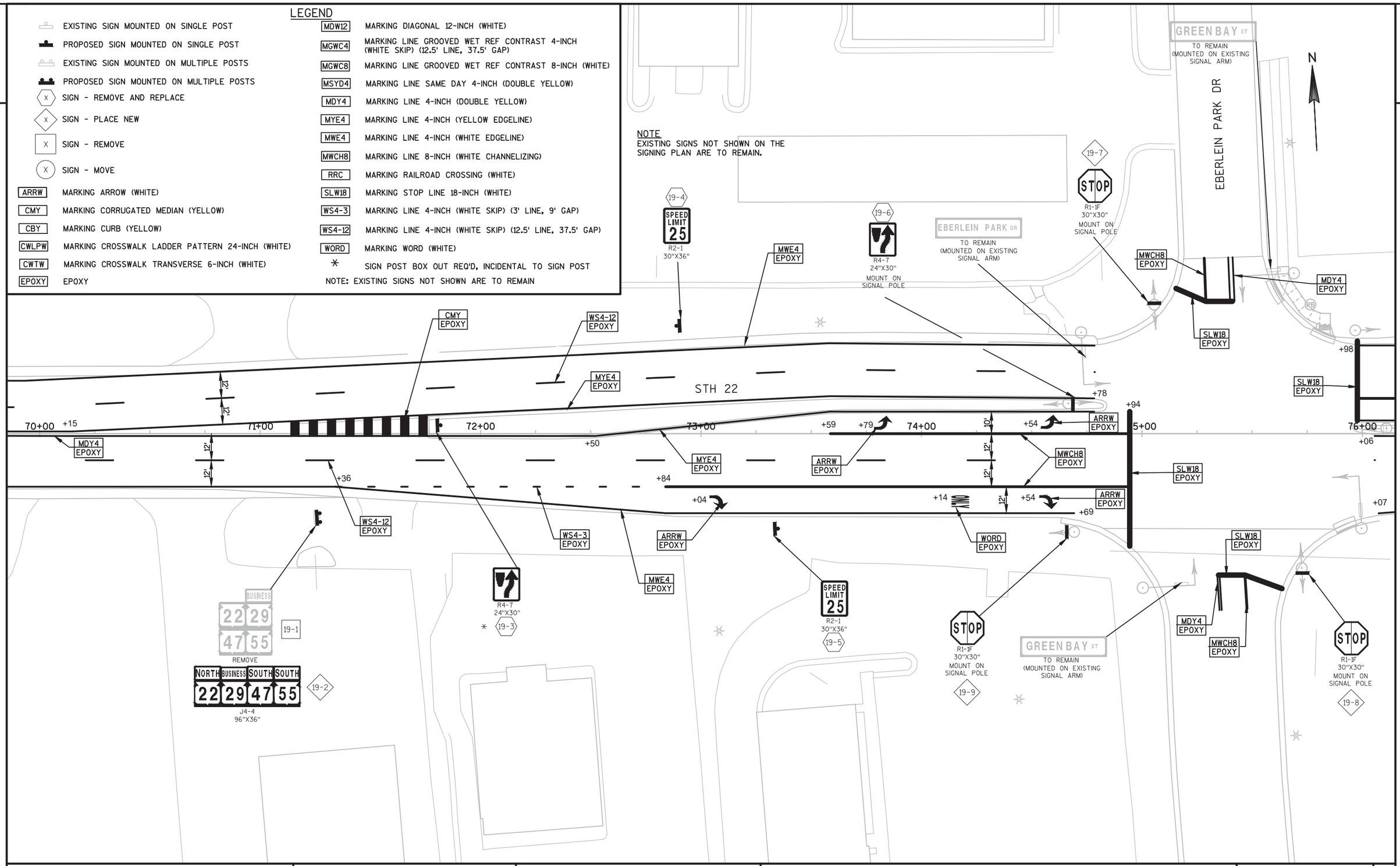
PROJECT NO:9180-23-72	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET 68	E

2

LEGEND

	EXISTING SIGN MOUNTED ON SINGLE POST	MDW12	MARKING DIAGONAL 12-INCH (WHITE)
	PROPOSED SIGN MOUNTED ON SINGLE POST	MGWC4	MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
	EXISTING SIGN MOUNTED ON MULTIPLE POSTS	MGWC8	MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
	PROPOSED SIGN MOUNTED ON MULTIPLE POSTS	MSYD4	MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
X	SIGN - REMOVE AND REPLACE	MDY4	MARKING LINE 4-INCH (DOUBLE YELLOW)
X	SIGN - PLACE NEW	MYE4	MARKING LINE 4-INCH (YELLOW EDGELINE)
X	SIGN - REMOVE	MWE4	MARKING LINE 4-INCH (WHITE EDGELINE)
		MWCH8	MARKING LINE 8-INCH (WHITE CHANNELIZING)
X	SIGN - MOVE	RRC	MARKING RAILROAD CROSSING (WHITE)
ARRW	MARKING ARROW (WHITE)	SLW18	MARKING STOP LINE 18-INCH (WHITE)
CMY	MARKING CORRUGATED MEDIAN (YELLOW)	WS4-3	MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
CBY	MARKING CURB (YELLOW)	WS4-12	MARKING LINE 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
CWLPW	MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)	WORD	MARKING WORD (WHITE)
CWTW	MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)	*	SIGN POST BOX OUT REQ'D, INCIDENTAL TO SIGN POST
EPOXY	EPOXY		NOTE: EXISTING SIGNS NOT SHOWN ARE TO REMAIN

NOTE
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.



PROJECT NO:9180-23-72	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET 69	E

2

N

20-8

STOP

R1-1F
30"X30"
MOUNT ON
SIGNAL POLE

WS4-12
EPOXY

STOP
TO REMAIN

MYE4
EPOXY

MWE4
EPOXY

20-5

SPEED LIMIT 25

W3-5
36"X36"

+98

SLW18
EPOXY

ARRW
EPOXY

12'

12'

10'

MWCH8
EPOXY

+26

+82

+02

+13

STH 22

+03

12'

12'

12'

12'

MDY4
EPOXY

76+00

77+00

78+00

79+00

80+00

81+00

82+00

+06

+93

ARRW
EPOXY

MYE4
EPOXY

+58

+07

EBERLEIN PARK DR

TO REMAIN
(MOUNTED ON EXISTING
SIGNAL ARM)

R4-7
24"X30"
MOUNT ON
SIGNAL POLE

20-1

$500 FINE
FOR THROWING
LITTER OR TRASH
ON HIGHWAYS
KEEP WISCONSIN CLEAN

REMOVE

20-2

SPEED LIMIT 40

R2-1
30"X36"

20-3

R4-7
24"X30"

20-4

CMY
EPOXY

MWE4
EPOXY

WS4-12
EPOXY

STOP
SCHOOL BUS
FLASHING
RED LIGHTS

REMOVE

20-6

S3-1
36"X36"

20-7

LEGEND

EXISTING SIGN MOUNTED ON SINGLE POST	MDW12 — MARKING DIAGONAL 12-INCH (WHITE)
PROPOSED SIGN MOUNTED ON SINGLE POST	MGWC4 — MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
EXISTING SIGN MOUNTED ON MULTIPLE POSTS	MGWC8 — MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
PROPOSED SIGN MOUNTED ON MULTIPLE POSTS	MSYD4 — MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
X — SIGN - REMOVE AND REPLACE	MDY4 — MARKING LINE 4-INCH (DOUBLE YELLOW)
X — SIGN - PLACE NEW	MYE4 — MARKING LINE 4-INCH (YELLOW EDGELINE)
X — SIGN - REMOVE	MWE4 — MARKING LINE 4-INCH (WHITE EDGELINE)
	MWCH8 — MARKING LINE 8-INCH (WHITE CHANNELIZING)
X — SIGN - MOVE	RRC — MARKING RAILROAD CROSSING (WHITE)
ARRW — MARKING ARROW (WHITE)	SLW18 — MARKING STOP LINE 18-INCH (WHITE)
CMY — MARKING CORRUGATED MEDIAN (YELLOW)	WS4-3 — MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
CBY — MARKING CURB (YELLOW)	WS4-12 — MARKING LINE 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
CWLPW — MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)	WORD — MARKING WORD (WHITE)
CWTW — MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)	✳ — SIGN POST BOX OUT REQ'D, INCIDENTAL TO SIGN POST
EPOXY — EPOXY	NOTE: EXISTING SIGNS NOT SHOWN ARE TO REMAIN

NOTE
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.

PROJECT NO:9180-23-72	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET 70	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\023208-PS.DWG
LAYOUT NAME - 050221-PN

PLOT DATE : 10/15/2018 1:23 PM PLOT BY : SCOTT KAISER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

21-1
SPEED LIMIT 40
R2-1
30"X36"

MWE4
EPOXY

WS4-12
EPOXY

12'
12'
12'

STH 22

82+00 83+00 84+00 85+00 86+00 87+00 88+00

MDY4
EPOXY

WS4-12
EPOXY

MWE4
EPOXY

SPEED LIMIT 40
REMOVE
21-2

LEGEND

	EXISTING SIGN MOUNTED ON SINGLE POST	MDW12	MARKING DIAGONAL 12-INCH (WHITE)
	PROPOSED SIGN MOUNTED ON SINGLE POST	MGWC4	MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
	EXISTING SIGN MOUNTED ON MULTIPLE POSTS	MGWC8	MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
	PROPOSED SIGN MOUNTED ON MULTIPLE POSTS	MSYD4	MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
X	SIGN - REMOVE AND REPLACE	MDY4	MARKING LINE 4-INCH (DOUBLE YELLOW)
X	SIGN - PLACE NEW	MYE4	MARKING LINE 4-INCH (YELLOW EDGELINE)
X	SIGN - REMOVE	MWE4	MARKING LINE 4-INCH (WHITE EDGELINE)
		MWCH8	MARKING LINE 8-INCH (WHITE CHANNELIZING)
X	SIGN - MOVE	RRC	MARKING RAILROAD CROSSING (WHITE)
ARRW	MARKING ARROW (WHITE)	SLW18	MARKING STOP LINE 18-INCH (WHITE)
CMY	MARKING CORRUGATED MEDIAN (YELLOW)	WS4-3	MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
CBY	MARKING CURB (YELLOW)	WS4-12	MARKING LINE 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
CWLPW	MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)	WORD	MARKING WORD (WHITE)
CWTW	MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)	*	SIGN POST BOX OUT REQ'D, INCIDENTAL TO SIGN POST
EPOXY	EPOXY	NOTE: EXISTING SIGNS NOT SHOWN ARE TO REMAIN	

NOTE
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.

PROJECT NO:9180-23-72	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET 71	E

2

2

N

MWE4
EPOXY

WS4-12
EPOXY

12'
12'
12'

STH 22

88+00 89+00 90+00 91+00 92+00 93+00 94+00

WS4-12
EPOXY

MDY4
EPOXY

MWE4
EPOXY

STOP
TO REMAIN

JCT
COUNTY
HHH
J1-1
24"X39"
22-1

LEGEND

	EXISTING SIGN MOUNTED ON SINGLE POST	MDW12	MARKING DIAGONAL 12-INCH (WHITE)
	PROPOSED SIGN MOUNTED ON SINGLE POST	MGWC4	MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
	EXISTING SIGN MOUNTED ON MULTIPLE POSTS	MGWC8	MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
	PROPOSED SIGN MOUNTED ON MULTIPLE POSTS	MSYD4	MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
X	SIGN - REMOVE AND REPLACE	MDY4	MARKING LINE 4-INCH (DOUBLE YELLOW)
X	SIGN - PLACE NEW	MYE4	MARKING LINE 4-INCH (YELLOW EDGELINE)
X	SIGN - REMOVE	MWE4	MARKING LINE 4-INCH (WHITE EDGELINE)
		MWCH8	MARKING LINE 8-INCH (WHITE CHANNELIZING)
X	SIGN - MOVE	RRC	MARKING RAILROAD CROSSING (WHITE)
ARRW	MARKING ARROW (WHITE)	SLW18	MARKING STOP LINE 18-INCH (WHITE)
CMY	MARKING CORRUGATED MEDIAN (YELLOW)	WS4-3	MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
CBY	MARKING CURB (YELLOW)	WS4-12	MARKING LINE 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
CWLPW	MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)	WORD	MARKING WORD (WHITE)
CWTW	MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)	*	SIGN POST BOX OUT REQ'D, INCIDENTAL TO SIGN POST
EPOXY	EPOXY	NOTE: EXISTING SIGNS NOT SHOWN ARE TO REMAIN	

NOTE
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.

PROJECT NO:9180-23-72	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET 72	E

LEGEND

	EXISTING SIGN MOUNTED ON SINGLE POST	MDW12	MARKING DIAGONAL 12-INCH (WHITE)
	PROPOSED SIGN MOUNTED ON SINGLE POST	MGWC4	MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
	EXISTING SIGN MOUNTED ON MULTIPLE POSTS	MGWC8	MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
	PROPOSED SIGN MOUNTED ON MULTIPLE POSTS	MSYD4	MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
X	SIGN - REMOVE AND REPLACE	MDY4	MARKING LINE 4-INCH (DOUBLE YELLOW)
X	SIGN - PLACE NEW	MYE4	MARKING LINE 4-INCH (YELLOW EDGELINE)
X	SIGN - REMOVE	MWE4	MARKING LINE 4-INCH (WHITE EDGELINE)
		MWCH8	MARKING LINE 8-INCH (WHITE CHANNELIZING)
X	SIGN - MOVE	RRC	MARKING RAILROAD CROSSING (WHITE)
ARRW	MARKING ARROW (WHITE)	SLW18	MARKING STOP LINE 18-INCH (WHITE)
CMY	MARKING CORRUGATED MEDIAN (YELLOW)	WS4-3	MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
CBY	MARKING CURB (YELLOW)	WS4-12	MARKING LINE 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
CWLPW	MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)	WORD	MARKING WORD (WHITE)
CWTW	MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)	✳	SIGN POST BOX OUT REQ'D, INCIDENTAL TO SIGN POST
EPOXY	EPOXY	NOTE: EXISTING SIGNS NOT SHOWN ARE TO REMAIN	

NOTE
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.

N

23-2
SPEED LIMIT 40
R2-1
30"X36"

WS4-12 EPOXY
MWE4 EPOXY
MDY4 EPOXY
MYE4 EPOXY

STH 22

94+00 95+00 96+00 97+00 98+00 +10 +31 99+00

12' 12' 12' 12'

MYE4 EPOXY
CMY EPOXY
MWE4 EPOXY
WS4-12 EPOXY

SPEED LIMIT 40
R2-1
30"X36"
23-1

STOP
TO REMAIN

NORTH 22 | BUSINESS 29 | SOUTH 47 | SOUTH 55
J2-4
96"X57"
23-3

PROJECT NO:9180-23-72	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET 73	E

2

LEGEND

	EXISTING SIGN MOUNTED ON SINGLE POST	MDW12	MARKING DIAGONAL 12-INCH (WHITE)
	PROPOSED SIGN MOUNTED ON SINGLE POST	MGWC4	MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
	EXISTING SIGN MOUNTED ON MULTIPLE POSTS	MGWC8	MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
	PROPOSED SIGN MOUNTED ON MULTIPLE POSTS	MSYD4	MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
X	SIGN - REMOVE AND REPLACE	MDY4	MARKING LINE 4-INCH (DOUBLE YELLOW)
X	SIGN - PLACE NEW	MYE4	MARKING LINE 4-INCH (YELLOW EDGELINE)
X	SIGN - REMOVE	MWE4	MARKING LINE 4-INCH (WHITE EDGELINE)
		MWCH8	MARKING LINE 8-INCH (WHITE CHANNELIZING)
X	SIGN - MOVE	RRC	MARKING RAILROAD CROSSING (WHITE)
ARRW	MARKING ARROW (WHITE)	SLW18	MARKING STOP LINE 18-INCH (WHITE)
CMY	MARKING CORRUGATED MEDIAN (YELLOW)	WS4-3	MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
CBY	MARKING CURB (YELLOW)	WS4-12	MARKING LINE 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
CWLPW	MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)	WORD	MARKING WORD (WHITE)
CWTW	MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)	*	SIGN POST BOX OUT REQ'D, INCIDENTAL TO SIGN POST
EPOXY	EPOXY		NOTE: EXISTING SIGNS NOT SHOWN ARE TO REMAIN

NOTE
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.

N

24-1
BUSINESS 22 29 47 55
REMOVE

24-2
SOUTH BUSINESS NORTH NORTH 22 29 47 55
J4-4
96"X36"

24-7
STOP
R1-1F
36"X36"
MOUNT ON SIGNAL POLE

AIRPORT DR
TO REMAIN
(MOUNTED ON EXISTING SIGNAL ARM)

STH 22

MWE4 EPOXY
CMY EPOXY
MYE4 EPOXY
WS4-12 EPOXY
ARRW EPOXY
MWCH8 EPOXY
WS4-3 EPOXY
SLW18 EPOXY

101+00 102+00 103+00 104+00 105+00 106+00
+18 +05 +95 +03 +23 +66 +86 +89 +06

12' 12' 10'

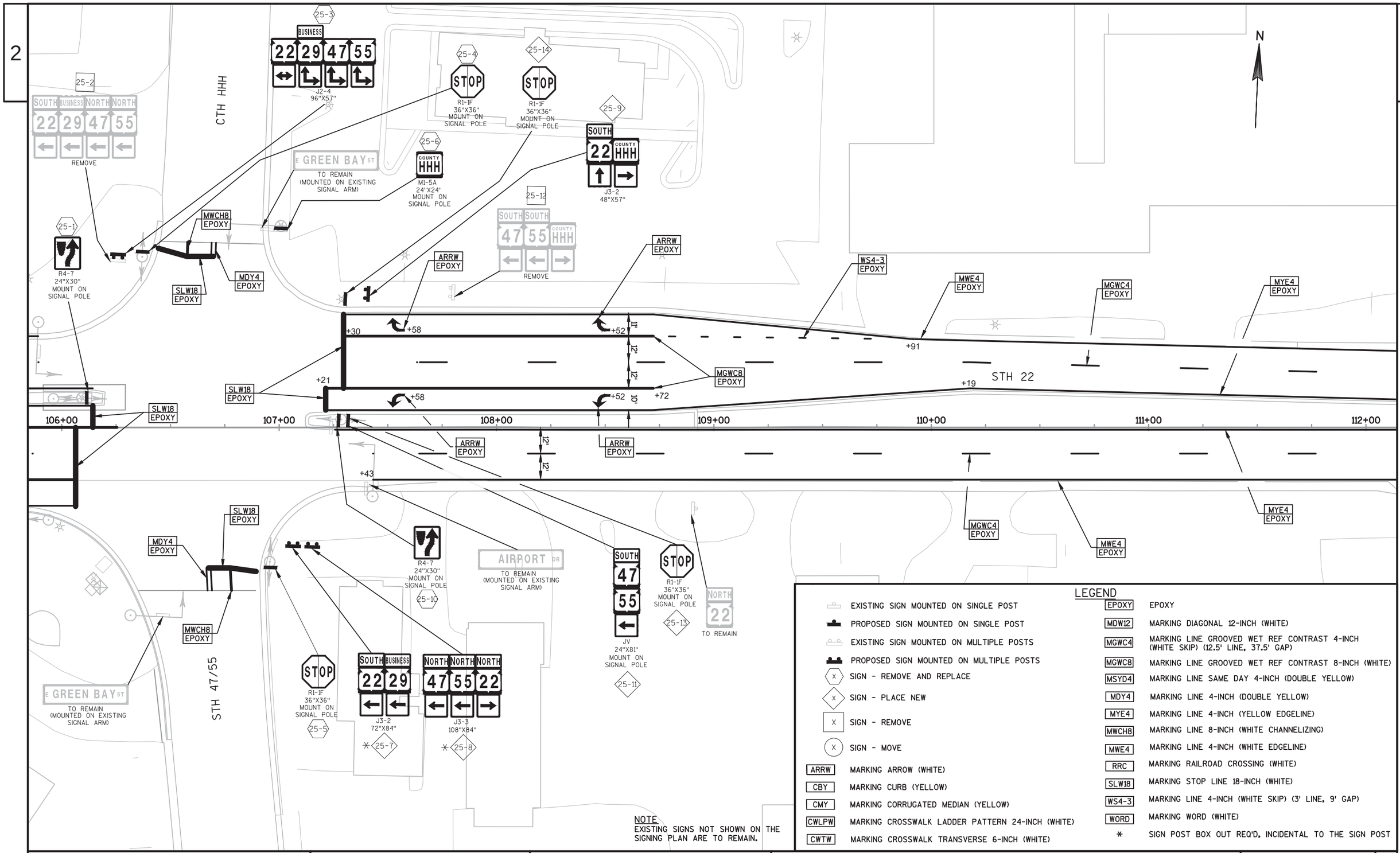
COUNTY HHH
J3-1
24"X57"
MOUNT ON SIGNAL POLE
24-5

NORTH BUSINESS SOUTH SOUTH 22 29 47 55
J3-4
96"X57"
24-3

NORTH BUSINESS SOUTH SOUTH COUNTY HHH 29 47 55
REMOVE
24-4

STOP
R1-1F
36"X36"
MOUNT ON SIGNAL POLE
24-6

PROJECT NO:9180-23-72	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET 74	E



NOTE
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.

LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- (X) SIGN - REMOVE AND REPLACE
- (X) SIGN - PLACE NEW
- X SIGN - REMOVE
- (X) SIGN - MOVE
- ARRW MARKING ARROW (WHITE)
- CBY MARKING CURB (YELLOW)
- CMY MARKING CORRUGATED MEDIAN (YELLOW)
- CWLPW MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)
- CWTW MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)
- EPOXY EPOXY
- MDW12 MARKING DIAGONAL 12-INCH (WHITE)
- MGWC4 MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
- MGWC8 MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
- MSYD4 MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
- MDY4 MARKING LINE 4-INCH (DOUBLE YELLOW)
- MYE4 MARKING LINE 4-INCH (YELLOW EDGELINE)
- MWCH8 MARKING LINE 8-INCH (WHITE CHANNELIZING)
- MWE4 MARKING LINE 4-INCH (WHITE EDGELINE)
- RRC MARKING RAILROAD CROSSING (WHITE)
- SLW18 MARKING STOP LINE 18-INCH (WHITE)
- WS4-3 MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
- WORD MARKING WORD (WHITE)
- * SIGN POST BOX OUT REQ'D, INCIDENTAL TO THE SIGN POST

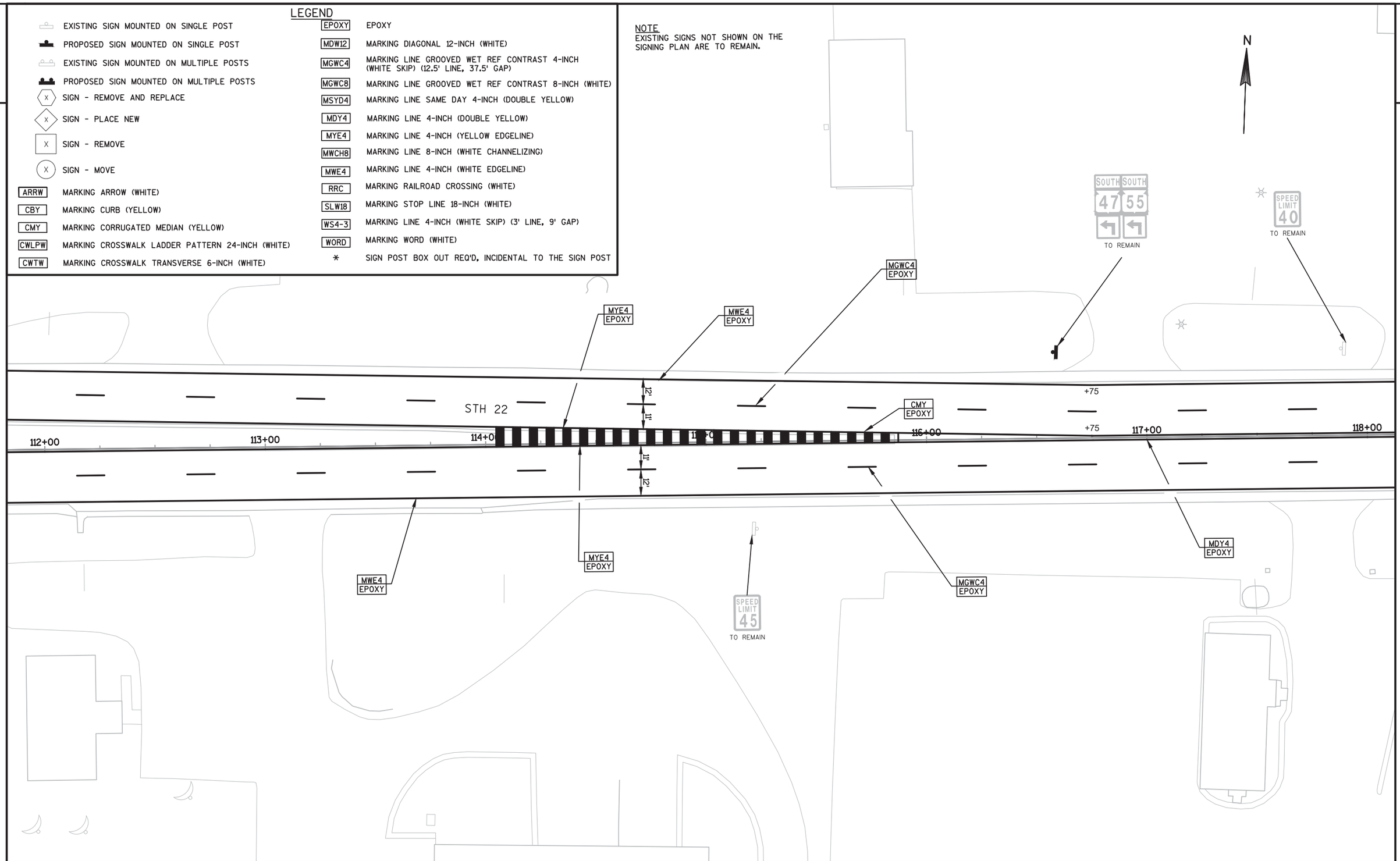
PROJECT NO:9180-23-72	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET 75	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\023226-PS.DWG
LAYOUT NAME - 050226-PN
PLOT DATE : 8/29/2018 6:10 PM PLOT BY : SCOTT KAISER PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

LEGEND

	EXISTING SIGN MOUNTED ON SINGLE POST	EPOXY	EPOXY
	PROPOSED SIGN MOUNTED ON SINGLE POST	MDW12	MARKING DIAGONAL 12-INCH (WHITE)
	EXISTING SIGN MOUNTED ON MULTIPLE POSTS	MGWC4	MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
	PROPOSED SIGN MOUNTED ON MULTIPLE POSTS	MGWC8	MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
X	SIGN - REMOVE AND REPLACE	MSYD4	MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
X	SIGN - PLACE NEW	MDY4	MARKING LINE 4-INCH (DOUBLE YELLOW)
X	SIGN - REMOVE	MYE4	MARKING LINE 4-INCH (YELLOW EDGELINE)
		MWCH8	MARKING LINE 8-INCH (WHITE CHANNELIZING)
X	SIGN - MOVE	MWE4	MARKING LINE 4-INCH (WHITE EDGELINE)
ARRW	MARKING ARROW (WHITE)	RRC	MARKING RAILROAD CROSSING (WHITE)
CBY	MARKING CURB (YELLOW)	SLW18	MARKING STOP LINE 18-INCH (WHITE)
CMY	MARKING CORRUGATED MEDIAN (YELLOW)	WS4-3	MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
CWLPW	MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)	WORD	MARKING WORD (WHITE)
CWTW	MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)	*	SIGN POST BOX OUT REQ'D, INCIDENTAL TO THE SIGN POST

NOTE
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.



PROJECT NO:9180-23-71/72	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET 76 E

2

2

N

JCT JCT JCT
47 55 COUNTY HHH
TO REMAIN

MGWC4
EPOXY

MWE4
EPOXY

12'
12'
12'
12'

118+00 119+00 120+00 121+00 122+00 123+00 124+00

STH 22

MDY4
EPOXY

MGWC4
EPOXY

MWE4
EPOXY

LEGEND

EXISTING SIGN MOUNTED ON SINGLE POST	EPOXY — EPOXY
PROPOSED SIGN MOUNTED ON SINGLE POST	MDW12 — MARKING DIAGONAL 12-INCH (WHITE)
EXISTING SIGN MOUNTED ON MULTIPLE POSTS	MGWC4 — MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
PROPOSED SIGN MOUNTED ON MULTIPLE POSTS	MGWC8 — MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
X — SIGN - REMOVE AND REPLACE	MSYD4 — MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
X — SIGN - PLACE NEW	MDY4 — MARKING LINE 4-INCH (DOUBLE YELLOW)
X — SIGN - REMOVE	MYE4 — MARKING LINE 4-INCH (YELLOW EDGELINE)
	MWCH8 — MARKING LINE 8-INCH (WHITE CHANNELIZING)
X — SIGN - MOVE	MWE4 — MARKING LINE 4-INCH (WHITE EDGELINE)
ARRW — MARKING ARROW (WHITE)	RRC — MARKING RAILROAD CROSSING (WHITE)
CBY — MARKING CURB (YELLOW)	SLW18 — MARKING STOP LINE 18-INCH (WHITE)
CMY — MARKING CORRUGATED MEDIAN (YELLOW)	WS4-3 — MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
CWLPW — MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)	WORD — MARKING WORD (WHITE)
CWTW — MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)	* — SIGN POST BOX OUT REQ'D, INCIDENTAL TO THE SIGN POST

NOTE
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.

PROJECT NO:9180-23-71	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET 77	E

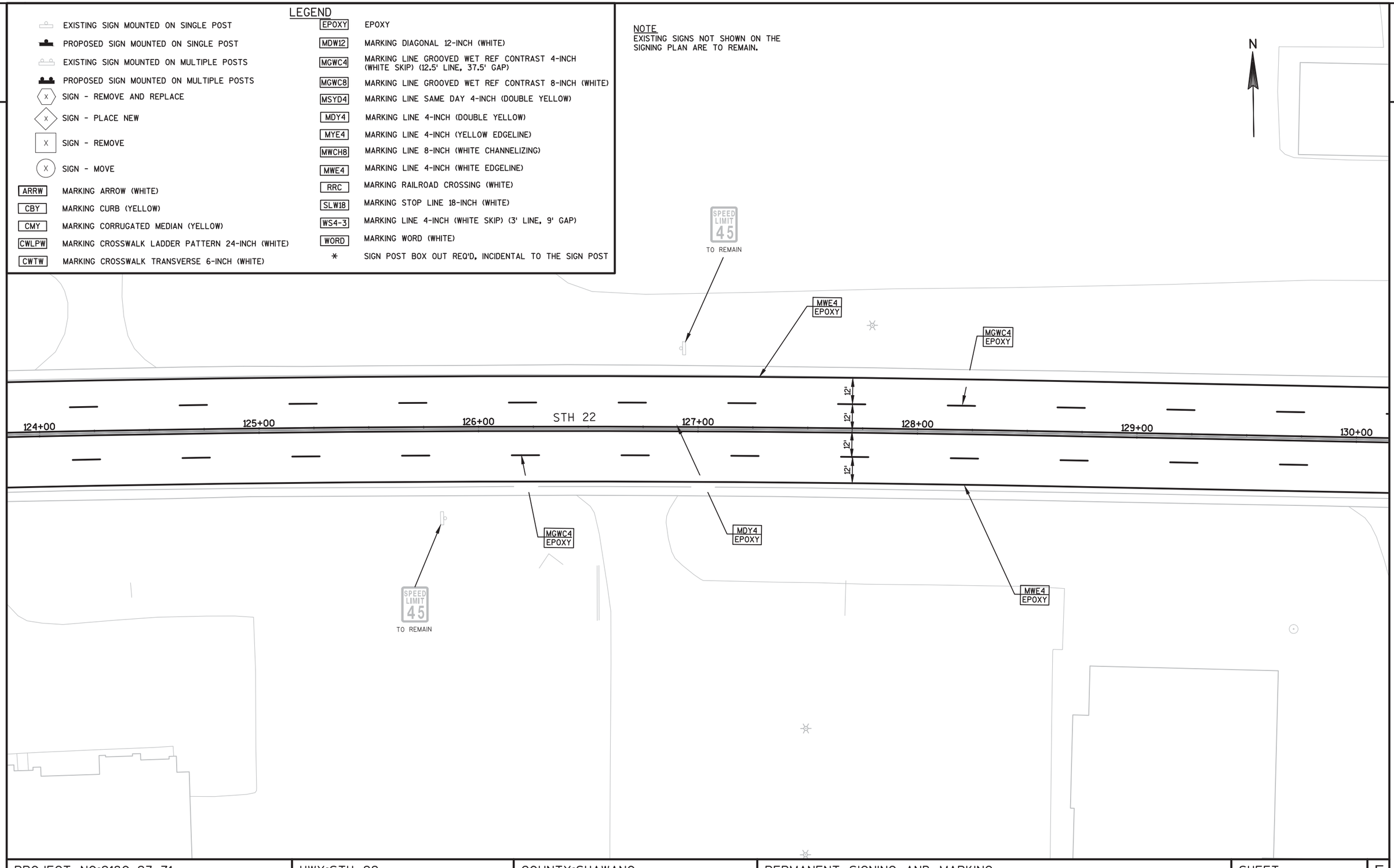
FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\023226-PS.DWG
LAYOUT NAME - 050228-PN
PLOT DATE : 8/29/2018 6:11 PM PLOT BY : SCOTT KAISER PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

	EXISTING SIGN MOUNTED ON SINGLE POST	EPOXY	EPOXY
	PROPOSED SIGN MOUNTED ON SINGLE POST	MDW12	MARKING DIAGONAL 12-INCH (WHITE)
	EXISTING SIGN MOUNTED ON MULTIPLE POSTS	MGWC4	MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
	PROPOSED SIGN MOUNTED ON MULTIPLE POSTS	MGWC8	MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
X	SIGN - REMOVE AND REPLACE	MSYD4	MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
X	SIGN - PLACE NEW	MDY4	MARKING LINE 4-INCH (DOUBLE YELLOW)
X	SIGN - REMOVE	MYE4	MARKING LINE 4-INCH (YELLOW EDGELINE)
		MWCH8	MARKING LINE 8-INCH (WHITE CHANNELIZING)
X	SIGN - MOVE	MWE4	MARKING LINE 4-INCH (WHITE EDGELINE)
ARRW	MARKING ARROW (WHITE)	RRC	MARKING RAILROAD CROSSING (WHITE)
CBY	MARKING CURB (YELLOW)	SLW18	MARKING STOP LINE 18-INCH (WHITE)
CMY	MARKING CORRUGATED MEDIAN (YELLOW)	WS4-3	MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
CWLPW	MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)	WORD	MARKING WORD (WHITE)
CWTW	MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)	*	SIGN POST BOX OUT REQ'D, INCIDENTAL TO THE SIGN POST

NOTE
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.



2

PROJECT NO:9180-23-71	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET 78	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\023226-PS.DWG
LAYOUT NAME - 050229-PN
PLOT DATE : 8/29/2018 6:11 PM PLOT BY : SCOTT KAISER PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

ADOPT-A-HIGHWAY LITTER CONTROL NEXT 2 MILES
TO REMAIN

SHAWANO MASONS SHAWANO LODGE #170
TO REMAIN

TO REMAIN

NEIGHBORHOOD WATCH COMMUNITY
TO REMAIN

TREE CITY USA
TO REMAIN

Shawano
POPULATION 9,305
TO REMAIN

MWE4 EPOXY

MGWC4 EPOXY

STH 22

12'
12'
12'

130+00 131+00 132+00 133+00 134+00 135+00 136+00

+09 +79

+02 +77 +99 +59

MWE4 EPOXY

MDY4 EPOXY

WS4-3 EPOXY

MGWC4 EPOXY

MWE4 EPOXY

MDY4 EPOXY

RUSCH RD

RUSCH RD
REMOVE BY MUNICIPALITY

E GREENBAY ST
REMOVE BY MUNICIPALITY

STOP
MOVE
29-1

LEGEND

- EXISTING SIGN MOUNTED ON SINGLE POST
- PROPOSED SIGN MOUNTED ON SINGLE POST
- EXISTING SIGN MOUNTED ON MULTIPLE POSTS
- PROPOSED SIGN MOUNTED ON MULTIPLE POSTS
- (X) SIGN - REMOVE AND REPLACE
- (X) SIGN - PLACE NEW
- [X] SIGN - REMOVE
- (X) SIGN - MOVE

- ARRW MARKING ARROW (WHITE)
- CBY MARKING CURB (YELLOW)
- CMY MARKING CORRUGATED MEDIAN (YELLOW)
- CWLPW MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)
- CWTW MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)

- EPOXY EPOXY
- MDW12 MARKING DIAGONAL 12-INCH (WHITE)
- MGWC4 MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
- MGWC8 MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
- MSYD4 MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
- MDY4 MARKING LINE 4-INCH (DOUBLE YELLOW)
- MYE4 MARKING LINE 4-INCH (YELLOW EDGELINE)
- MWCH8 MARKING LINE 8-INCH (WHITE CHANNELIZING)
- MWE4 MARKING LINE 4-INCH (WHITE EDGELINE)
- RRC MARKING RAILROAD CROSSING (WHITE)
- SLW18 MARKING STOP LINE 18-INCH (WHITE)
- WS4-3 MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
- WORD MARKING WORD (WHITE)
- * SIGN POST BOX OUT REQ'D, INCIDENTAL TO THE SIGN POST

NOTE
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.

PROJECT NO:9180-23-71	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET 79	E

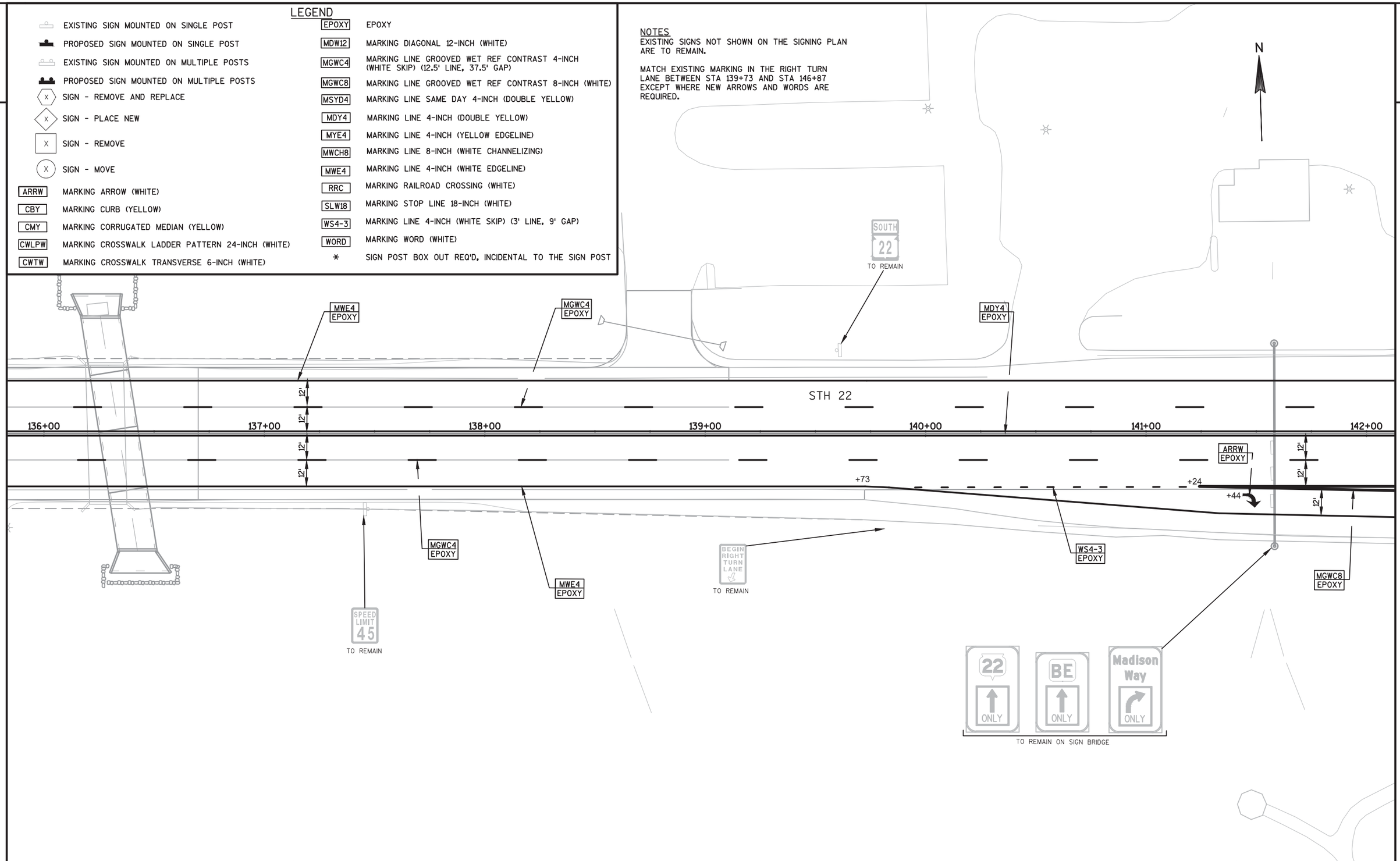
2

LEGEND

	EXISTING SIGN MOUNTED ON SINGLE POST	EPOXY	EPOXY
	PROPOSED SIGN MOUNTED ON SINGLE POST	MDW12	MARKING DIAGONAL 12-INCH (WHITE)
	EXISTING SIGN MOUNTED ON MULTIPLE POSTS	MGWC4	MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
	PROPOSED SIGN MOUNTED ON MULTIPLE POSTS	MGWC8	MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
X	SIGN - REMOVE AND REPLACE	MSYD4	MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
X	SIGN - PLACE NEW	MDY4	MARKING LINE 4-INCH (DOUBLE YELLOW)
X	SIGN - REMOVE	MYE4	MARKING LINE 4-INCH (YELLOW EDGELINE)
X	SIGN - MOVE	MWCH8	MARKING LINE 8-INCH (WHITE CHANNELIZING)
		MWE4	MARKING LINE 4-INCH (WHITE EDGELINE)
ARRW	MARKING ARROW (WHITE)	RRC	MARKING RAILROAD CROSSING (WHITE)
CBY	MARKING CURB (YELLOW)	SLW18	MARKING STOP LINE 18-INCH (WHITE)
CMY	MARKING CORRUGATED MEDIAN (YELLOW)	WS4-3	MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
CWLPW	MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)	WORD	MARKING WORD (WHITE)
CWTW	MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)	*	SIGN POST BOX OUT REQ'D, INCIDENTAL TO THE SIGN POST

NOTES
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.

MATCH EXISTING MARKING IN THE RIGHT TURN LANE BETWEEN STA 139+73 AND STA 146+87 EXCEPT WHERE NEW ARROWS AND WORDS ARE REQUIRED.



2

PROJECT NO:9180-23-71	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET 80	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\023226-PS.DWG
LAYOUT NAME - 050231-PN
PLOT DATE : 8/29/2018 6:11 PM PLOT BY : SCOTT KAISER PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

TO REMAIN

TO REMAIN

TO REMAIN

TO REMAIN

MGWC4 EPOXY

MWE4 EPOXY

MDY4 EPOXY

MDY4 EPOXY

STH 22

142+00

143+00

144+00

145+00

146+00

+09

+75

147+00

148+00

12'

12'

12'

12'

MGWC8 EPOXY

MGWC4 EPOXY

25'TYP

45°

+09

+84

SLW18 EPOXY

+87

MWE4 EPOXY

+00

+40

+64

MGWC8 EPOXY

MWE4 EPOXY

WORD EPOXY

ARROW EPOXY

MDW12 EPOXY

MADISON WAY

MADISON WAY

TO REMAIN

E GREENBAY ST

TO REMAIN

STOP

TO REMAIN

LEGEND

EXISTING SIGN MOUNTED ON SINGLE POST	EPOXY — EPOXY
PROPOSED SIGN MOUNTED ON SINGLE POST	MDW12 — MARKING DIAGONAL 12-INCH (WHITE)
EXISTING SIGN MOUNTED ON MULTIPLE POSTS	MGWC4 — MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
PROPOSED SIGN MOUNTED ON MULTIPLE POSTS	MGWC8 — MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
X — SIGN - REMOVE AND REPLACE	MSYD4 — MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
X — SIGN - PLACE NEW	MDY4 — MARKING LINE 4-INCH (DOUBLE YELLOW)
X — SIGN - REMOVE	MYE4 — MARKING LINE 4-INCH (YELLOW EDGELINE)
X — SIGN - MOVE	MWCH8 — MARKING LINE 8-INCH (WHITE CHANNELIZING)
ARRW — MARKING ARROW (WHITE)	MWE4 — MARKING LINE 4-INCH (WHITE EDGELINE)
CBY — MARKING CURB (YELLOW)	RRC — MARKING RAILROAD CROSSING (WHITE)
CMY — MARKING CORRUGATED MEDIAN (YELLOW)	SLW18 — MARKING STOP LINE 18-INCH (WHITE)
CWLPW — MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)	WS4-3 — MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
CWTW — MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)	WORD — MARKING WORD (WHITE)
	* — SIGN POST BOX OUT REQ'D, INCIDENTAL TO THE SIGN POST

NOTES

EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.

MATCH EXISTING MARKING IN THE RIGHT TURN LANE BETWEEN STA 139+73 AND STA 146+87 EXCEPT WHERE NEW ARROWS AND WORDS ARE REQUIRED.

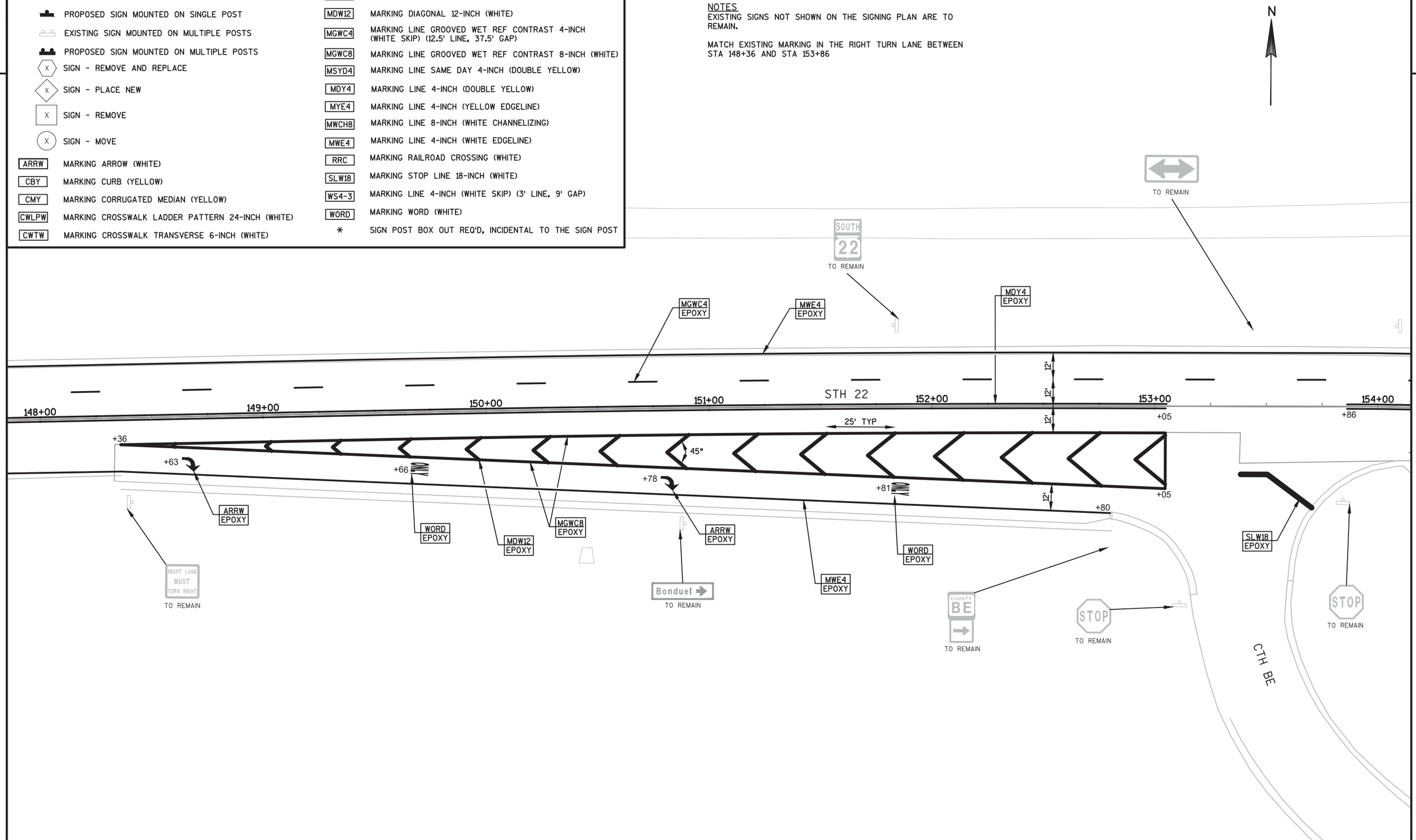
PROJECT NO:9180-23-71	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET 81	E

LEGEND

	EXISTING SIGN MOUNTED ON SINGLE POST	EPOXY	EPOXY
	PROPOSED SIGN MOUNTED ON SINGLE POST	MDW12	MARKING DIAGONAL 12-INCH (WHITE)
	EXISTING SIGN MOUNTED ON MULTIPLE POSTS	MGWC4	MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
	PROPOSED SIGN MOUNTED ON MULTIPLE POSTS	MGWC8	MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
X	SIGN - REMOVE AND REPLACE	MSYD4	MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
X	SIGN - PLACE NEW	MDY4	MARKING LINE 4-INCH (DOUBLE YELLOW)
X	SIGN - REMOVE	MYE4	MARKING LINE 4-INCH (YELLOW EDGELINE)
		MWCH8	MARKING LINE 8-INCH (WHITE CHANNELIZING)
X	SIGN - MOVE	MWE4	MARKING LINE 4-INCH (WHITE EDGELINE)
ARRW	MARKING ARROW (WHITE)	RRC	MARKING RAILROAD CROSSING (WHITE)
CBY	MARKING CURB (YELLOW)	SLW18	MARKING STOP LINE 18-INCH (WHITE)
CMY	MARKING CORRUGATED MEDIAN (YELLOW)	WS4-3	MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
CWLPW	MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)	WORD	MARKING WORD (WHITE)
CWTW	MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)	*	SIGN POST BOX OUT REQ'D, INCIDENTAL TO THE SIGN POST

NOTES
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.

MATCH EXISTING MARKING IN THE RIGHT TURN LANE BETWEEN STA 148+36 AND STA 153+86



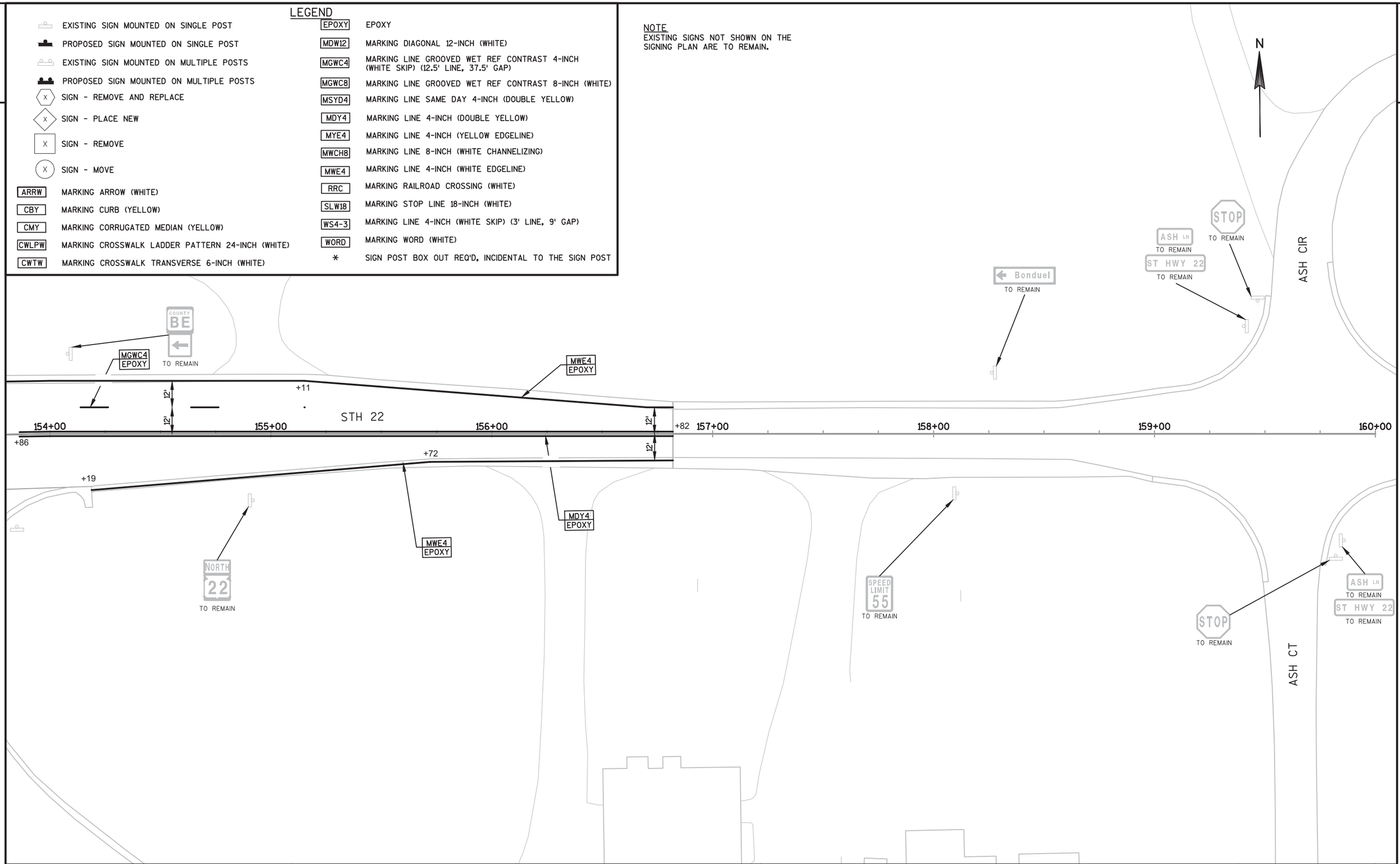
PROJECT NO:9180-23-71	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET 82	E

2

LEGEND

	EXISTING SIGN MOUNTED ON SINGLE POST	EPOXY	EPOXY
	PROPOSED SIGN MOUNTED ON SINGLE POST	MDW12	MARKING DIAGONAL 12-INCH (WHITE)
	EXISTING SIGN MOUNTED ON MULTIPLE POSTS	MGWC4	MARKING LINE GROOVED WET REF CONTRAST 4-INCH (WHITE SKIP) (12.5' LINE, 37.5' GAP)
	PROPOSED SIGN MOUNTED ON MULTIPLE POSTS	MGWC8	MARKING LINE GROOVED WET REF CONTRAST 8-INCH (WHITE)
X	SIGN - REMOVE AND REPLACE	MSYD4	MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)
X	SIGN - PLACE NEW	MDY4	MARKING LINE 4-INCH (DOUBLE YELLOW)
X	SIGN - REMOVE	MYE4	MARKING LINE 4-INCH (YELLOW EDGELINE)
		MWCH8	MARKING LINE 8-INCH (WHITE CHANNELIZING)
X	SIGN - MOVE	MWE4	MARKING LINE 4-INCH (WHITE EDGELINE)
ARRW	MARKING ARROW (WHITE)	RRC	MARKING RAILROAD CROSSING (WHITE)
CBY	MARKING CURB (YELLOW)	SLW18	MARKING STOP LINE 18-INCH (WHITE)
CMY	MARKING CORRUGATED MEDIAN (YELLOW)	WS4-3	MARKING LINE 4-INCH (WHITE SKIP) (3' LINE, 9' GAP)
CWLPW	MARKING CROSSWALK LADDER PATTERN 24-INCH (WHITE)	WORD	MARKING WORD (WHITE)
CWTW	MARKING CROSSWALK TRANSVERSE 6-INCH (WHITE)	*	SIGN POST BOX OUT REQ'D, INCIDENTAL TO THE SIGN POST

NOTE
EXISTING SIGNS NOT SHOWN ON THE SIGNING PLAN ARE TO REMAIN.



PROJECT NO:9180-23-71	HWY:STH 22	COUNTY:SHAWANO	PERMANENT SIGNING AND MARKING	SHEET 83	E

TRAFFIC CONTROL GENERAL NOTES

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

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

3. ALL TYPE III BARRICADES SHALL BE EQUIPPED WITH TYPE "A" (LOW INTENSITY FLASHING LIGHTS) PER SDD'S.

4. PLACE LOW SHOULDER AND UNEVEN LANES SIGNS DURING THE MILLING AND PAVING OPERATION. SEE SDD "TRAFFIC CONTROL FOR DROP-OFF SIGNING" FOR ADDITIONAL INFORMATION.

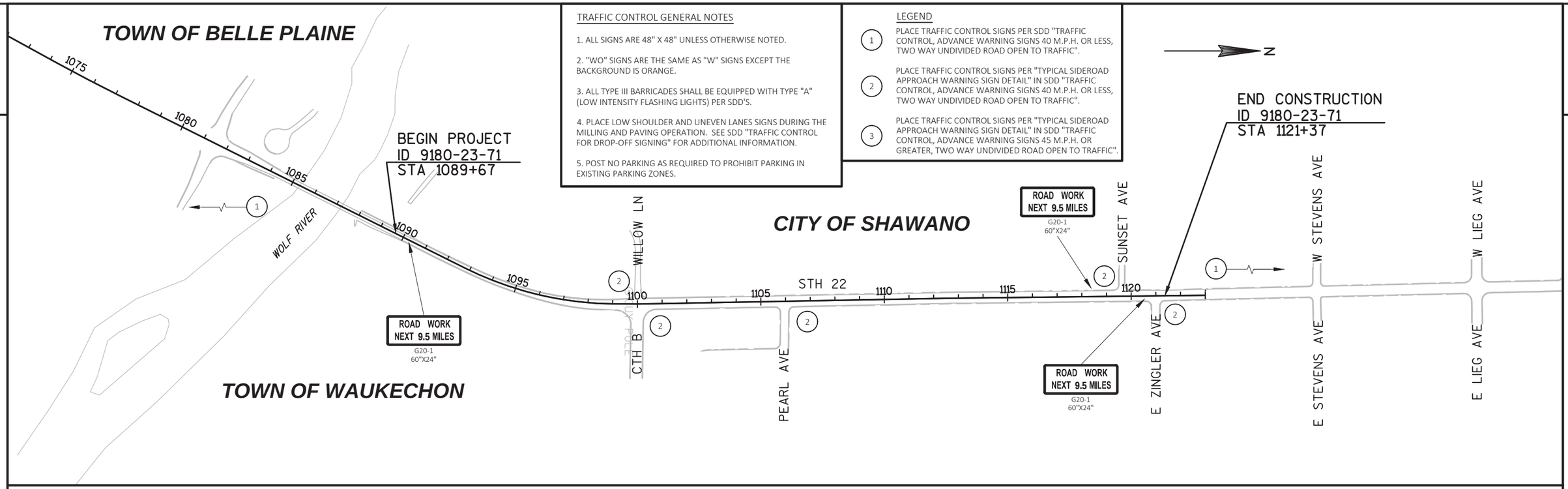
5. POST NO PARKING AS REQUIRED TO PROHIBIT PARKING IN EXISTING PARKING ZONES.

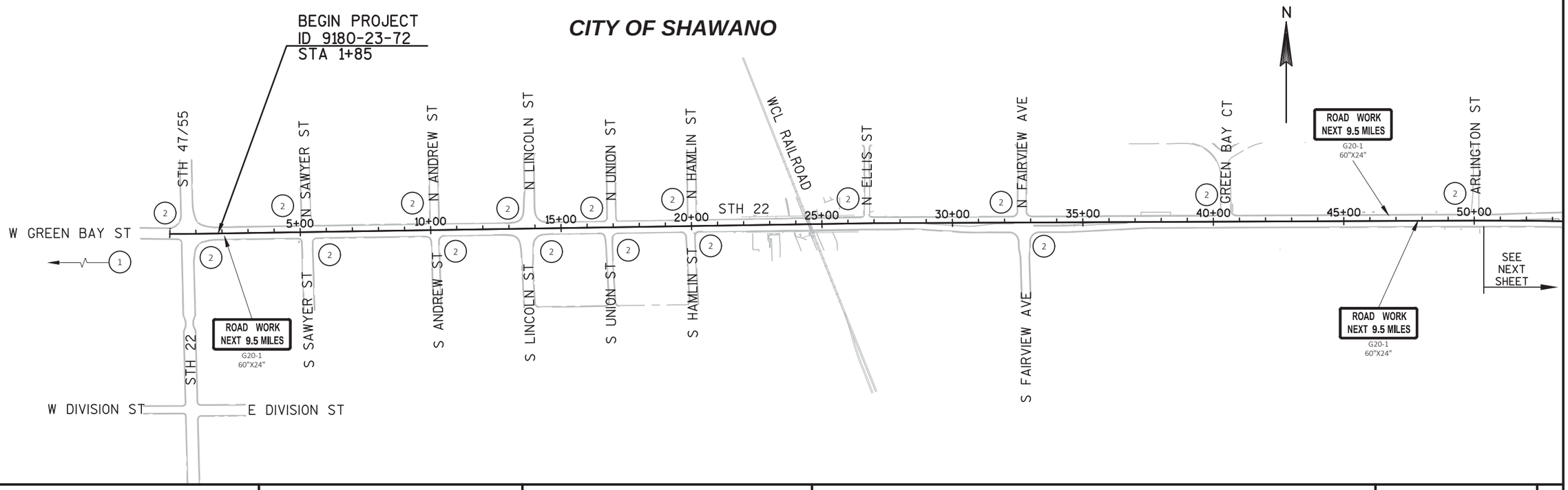
LEGEND

(1) PLACE TRAFFIC CONTROL SIGNS PER SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC".

(2) PLACE TRAFFIC CONTROL SIGNS PER "TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL" IN SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC".

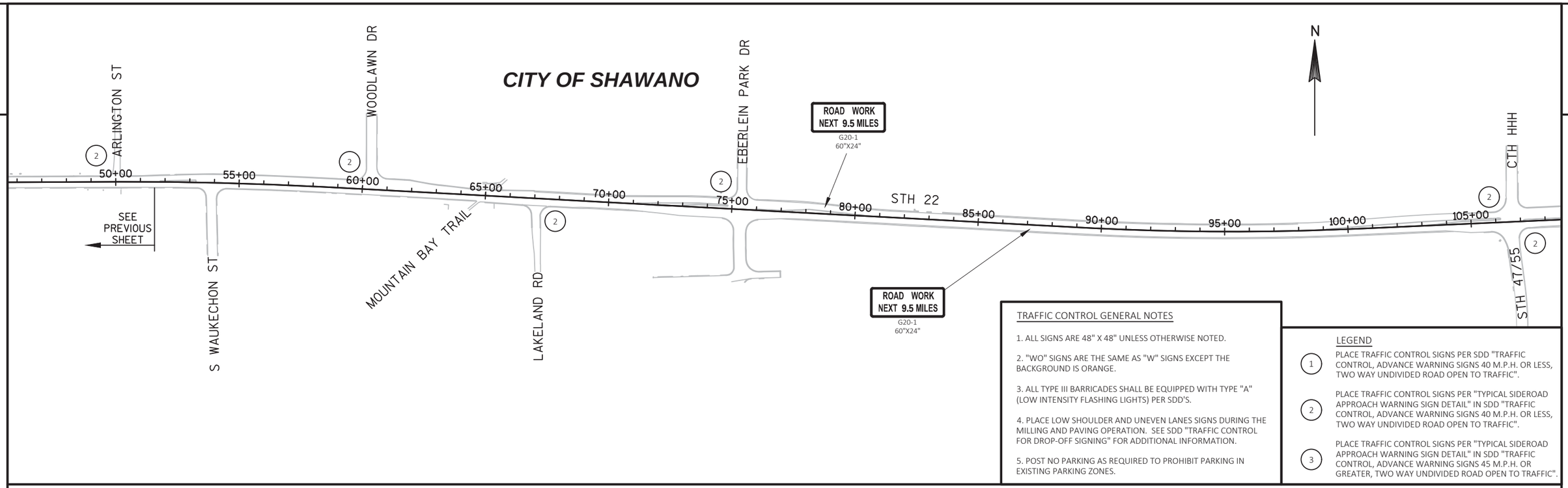
(3) PLACE TRAFFIC CONTROL SIGNS PER "TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL" IN SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC".





PROJECT NO:9180-23-71/72	HWY:STH 22	COUNTY:SHAWANO	TRAFFIC CONTROL - OVERVIEW	SHEET 84	E

2



TRAFFIC CONTROL GENERAL NOTES

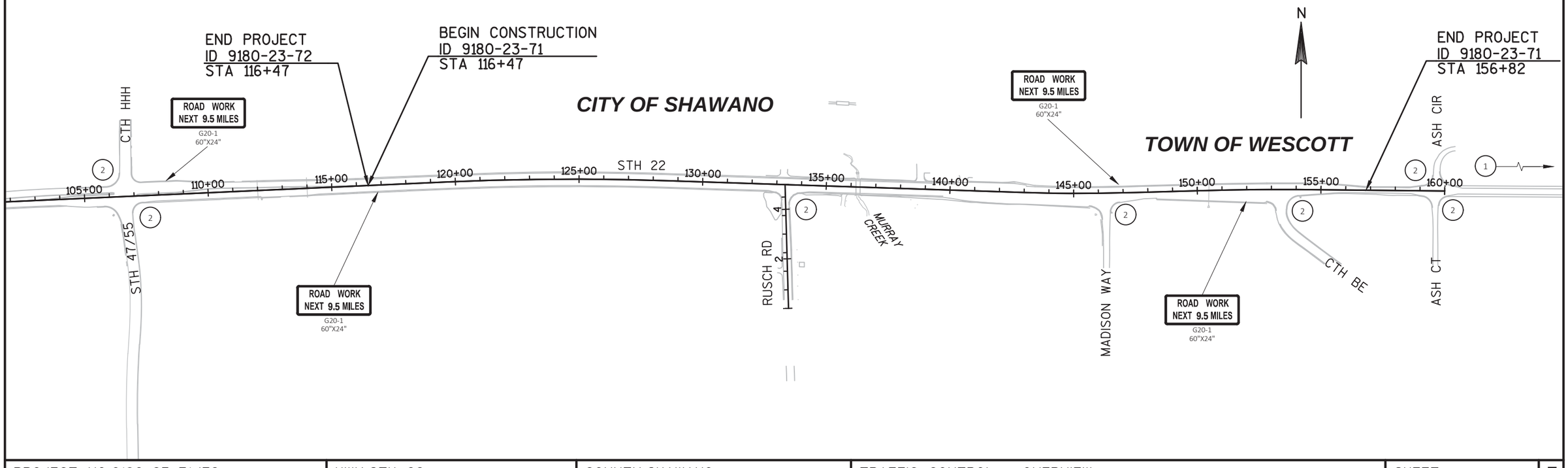
1. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
3. ALL TYPE III BARRICADES SHALL BE EQUIPPED WITH TYPE "A" (LOW INTENSITY FLASHING LIGHTS) PER SDD'S.
4. PLACE LOW SHOULDER AND UNEVEN LANES SIGNS DURING THE MILLING AND PAVING OPERATION. SEE SDD "TRAFFIC CONTROL FOR DROP-OFF SIGNING" FOR ADDITIONAL INFORMATION.
5. POST NO PARKING AS REQUIRED TO PROHIBIT PARKING IN EXISTING PARKING ZONES.

LEGEND

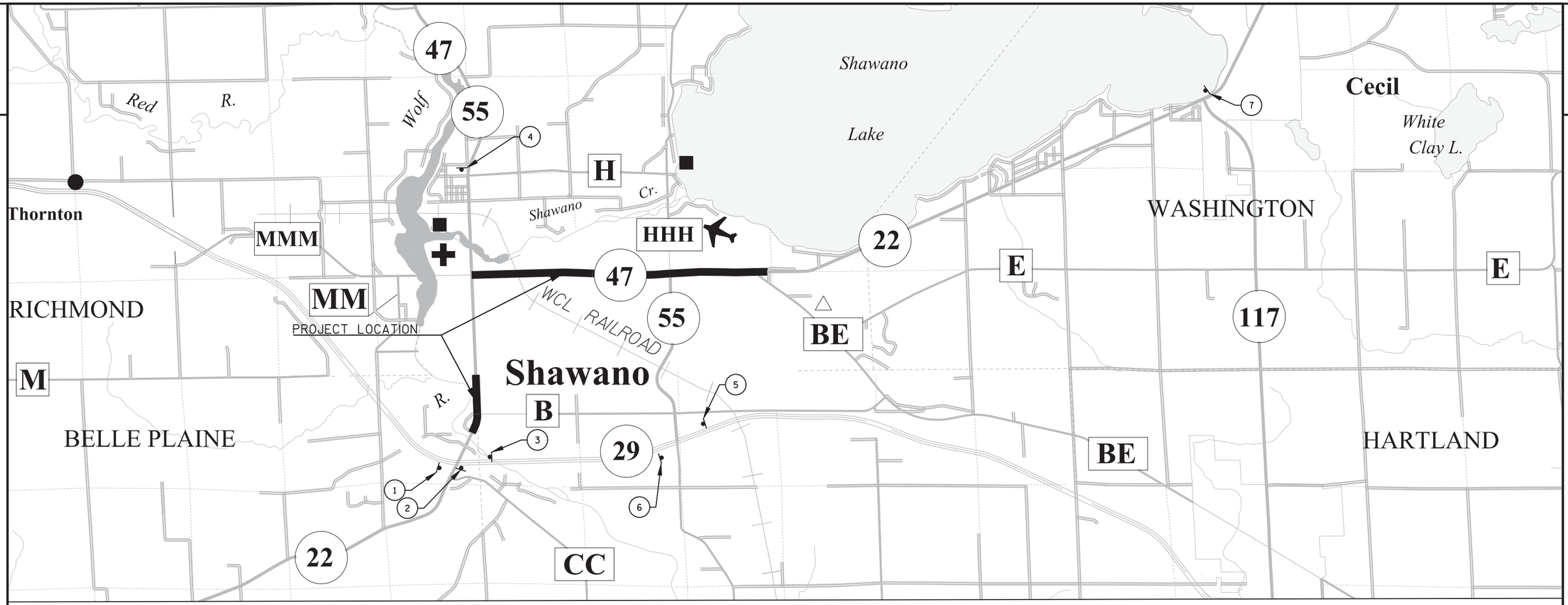
(1) PLACE TRAFFIC CONTROL SIGNS PER SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC".

(2) PLACE TRAFFIC CONTROL SIGNS PER "TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL" IN SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC".

(3) PLACE TRAFFIC CONTROL SIGNS PER "TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL" IN SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC".



PROJECT NO:9180-23-71/72	HWY:STH 22	COUNTY:SHAWANO	TRAFFIC CONTROL - OVERVIEW	SHEET 85	E



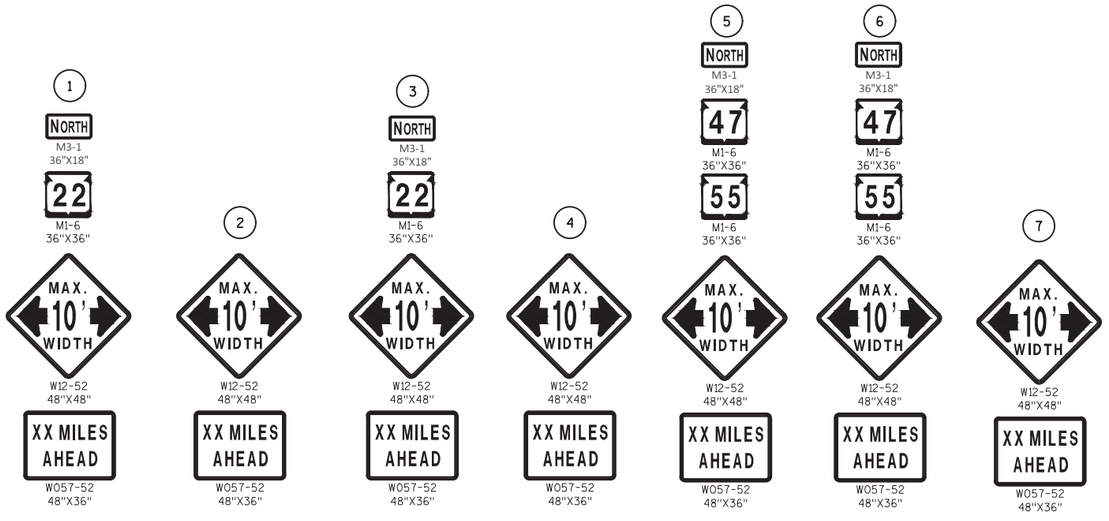
N

NOTES

POST THE WIDTH RESTRICTION ADVANCED WARNING SIGNS AT THE LOCATIONS PROVIDED

ALL TRAFFIC CONTROL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED

1	STH 29/STH 22 INTERSECTION - 2 ¼ MILES AHEAD
2	STH 22/STH 29 INTERSECTION - 2 MILES AHEAD
3	STH 29/STH 22 INTERSECTION - 2 ¼ MILES AHEAD
4	STH 47/55/CTH H INTERSECTION - 1 MILE AHEAD
5	STH 29/STH 47/55 INTERSECTION - 2 MILES AHEAD
6	STH 29/STH 47/55 INTERSECTION - 2 MILES AHEAD
7	STH 22/STH 117 - 4 ¾ MILES AHEAD



PROJECT NO: 9180-23-71/72	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - WIDTH RESTRICTION SIGNING	SHEET 86 E

PROJECT ID 9180-23-71 CURB RAMP STAGING

RAMP CLOSED/SIDEWALK REPAIR	ROUTE(S) OPEN TO CROSS STH 22	NOTES
NW CORNER CTH B / WILLOW LN	NE, SE AND SW CORNER CTH B / WILLOW LN	MAINTAIN PEDESTRIAN TRAFFIC WITH THE USE OF TEMPORARY CURB RAMPS
NE CORNER CTH B / WILLOW LN	SE, SW AND NW CORNER CTH B / WILLOW LN	MAINTAIN PEDESTRIAN TRAFFIC WITH THE USE OF TEMPORARY CURB RAMPS
SE CORNER CTH B / WILLOW LN	NE CORNER CTH B / WILLOW LN, EAST HALF OF LINCOLN ST	MAINTAIN PEDESTRIAN TRAFFIC ON THE SIDEWALK NORTH OF CTH B
NE CORNER PEARL AVE	NORTH HALF OF CTH B / WILLOW LN, SW CORNER SUNSET AVE	MAINTAIN PEDESTRIAN TRAFFIC WITH THE USE OF A TEMPORARY CURB RAMP ACROSS FROM SUNSET AVE
SE CORNER PEARL AVE	NORTH HALF OF CTH B / WILLOW LN, SW CORNER SUNSET AVE	MAINTAIN PEDESTRIAN TRAFFIC WITH THE USE OF A TEMPORARY CURB RAMP ACROSS FROM SUNSET AVE
NW CORNER SUNSET AVE	NORTH HALF OF CTH B / WILLOW LN, SE CORNER ZINGLER AVE	MAINTAIN PEDESTRIAN TRAFFIC WITH THE USE OF A TEMPORARY CURB RAMP ACROSS FROM ZINGLER AVE
SW CORNER SUNSET AVE	NORTH HALF OF CTH B / WILLOW LN, SE CORNER ZINGLER AVE	MAINTAIN PEDESTRIAN TRAFFIC WITH THE USE OF A TEMPORARY CURB RAMP ACROSS FROM ZINGLER AVE
NE CORNER ZINGLER AVE	SW CORNER SUNSET AVE , SOUTH HALF OF STEVENS AVE	MAINTAIN PEDESTRIAN TRAFFIC WITH THE USE OF A TEMPORARY CURB RAMP ACROSS FROM SUNSET AVE
SE CORNER ZINGLER AVE	SW CORNER SUNSET AVE , SOUTH HALF OF STEVENS AVE	MAINTAIN PEDESTRIAN TRAFFIC WITH THE USE OF A TEMPORARY CURB RAMP ACROSS FROM SUNSET AVE

PROJECT ID 9180-23-72 CURB RAMP STAGING

RAMP CLOSED/SIDEWALK REPAIR	ROUTE(S) OPEN TO CROSS STH 22	NOTES
NW CORNER SAWYER ST	EAST HALF OF MAIN ST, WEST HALF OF ANDREW ST	MAINTAIN PEDESTRIAN TRAFFIC ON THE SOUTH SIDE OF STH 22 TO CROSS SAWYER ST
NE CORNER SAWYER ST	EAST HALF OF MAIN ST, WEST HALF OF ANDREW ST	MAINTAIN PEDESTRIAN TRAFFIC ON THE SOUTH SIDE OF STH 22 TO CROSS SAWYER ST
SW CORNER SAWYER ST	EAST HALF OF MAIN ST, WEST HALF OF ANDREW ST	MAINTAIN PEDESTRIAN TRAFFIC ON THE NORTH SIDE OF STH 22 TO CROSS SAWYER ST
SE CORNER SAWYER ST	EAST HALF OF MAIN ST, WEST HALF OF ANDREW ST	MAINTAIN PEDESTRIAN TRAFFIC ON THE NORTH SIDE OF STH 22 TO CROSS SAWYER ST
NW CORNER ANDREW ST	EAST HALF OF SAWYER ST, WEST HALF OF LINCOLN ST	MAINTAIN PEDESTRIAN TRAFFIC ON THE SOUTH SIDE OF STH 22 TO CROSS ANDREW ST
NE CORNER ANDREW ST	EAST HALF OF SAWYER ST, WEST HALF OF LINCOLN ST	MAINTAIN PEDESTRIAN TRAFFIC ON THE SOUTH SIDE OF STH 22 TO CROSS ANDREW ST
SW CORNER ANDREW ST	EAST HALF OF SAWYER ST, WEST HALF OF LINCOLN ST	MAINTAIN PEDESTRIAN TRAFFIC ON THE NORTH SIDE OF STH 22 TO CROSS ANDREW ST
SE CORNER ANDREW ST	EAST HALF OF SAWYER ST, WEST HALF OF LINCOLN ST	MAINTAIN PEDESTRIAN TRAFFIC ON THE NORTH SIDE OF STH 22 TO CROSS ANDREW ST
NW CORNER LINCOLN ST	EAST HALF OF ANDREW ST, WEST HALF OF UNION ST	MAINTAIN PEDESTRIAN TRAFFIC ON THE SOUTH SIDE OF STH 22 TO CROSS LINCOLN ST
NE CORNER LINCOLN ST	EAST HALF OF ANDREW ST, WEST HALF OF UNION ST	MAINTAIN PEDESTRIAN TRAFFIC ON THE SOUTH SIDE OF STH 22 TO CROSS LINCOLN ST
SW CORNER LINCOLN ST	EAST HALF OF ANDREW ST, WEST HALF OF UNION ST	MAINTAIN PEDESTRIAN TRAFFIC ON THE NORTH SIDE OF STH 22 TO CROSS LINCOLN ST
SE CORNER LINCOLN ST	EAST HALF OF ANDREW ST, WEST HALF OF UNION ST	MAINTAIN PEDESTRIAN TRAFFIC ON THE NORTH SIDE OF STH 22 TO CROSS LINCOLN ST
NW CORNER UNION ST	EAST HALF OF LINCOLN ST, HAMLIN ST	MAINTAIN PEDESTRIAN TRAFFIC ON THE SOUTH SIDE OF STH 22 TO CROSS UNION ST
NE CORNER UNION ST	EAST HALF OF LINCOLN ST, HAMLIN ST	MAINTAIN PEDESTRIAN TRAFFIC ON THE SOUTH SIDE OF STH 22 TO CROSS UNION ST
SW CORNER UNION ST	EAST HALF OF LINCOLN ST, HAMLIN ST	MAINTAIN PEDESTRIAN TRAFFIC ON THE NORTH SIDE OF STH 22 TO CROSS UNION ST
SE CORNER UNION ST	EAST HALF OF LINCOLN ST, HAMLIN ST	MAINTAIN PEDESTRIAN TRAFFIC ON THE NORTH SIDE OF STH 22 TO CROSS UNION ST
NORTH RR CROSSING	HAMLIN ST, EAST HALF OF FAIRVIEW AVE	MAINTAIN PEDESTRIAN TRAFFIC ON 5TH ST TO CROSS THE RAILROAD
SOUTH RR CROSSING	HAMLIN ST, EAST HALF OF FAIRVIEW AVE	MAINTAIN PEDESTRIAN TRAFFIC ON 5TH ST TO CROSS THE RAILROAD
NW CORNER ELLIS ST	HAMLIN ST, EAST HALF OF FAIRVIEW AVE	MAINTAIN PEDESTRIAN TRAFFIC ON THE SOUTH SIDE OF STH 22
NE CORNER ELLIS ST	HAMLIN ST, EAST HALF OF FAIRVIEW AVE	MAINTAIN PEDESTRIAN TRAFFIC ON THE SOUTH SIDE OF STH 22
NW CORNER FAIRVIEW AVE	HAMLIN ST, EAST HALF OF FAIRVIEW AVE, NORTH HALF OF ELLIS ST	MAINTAIN PEDESTRIAN TRAFFIC ON THE SOUTH SIDE OF STH 22 TO CROSS FAIRVIEW AVE
NE CORNER FAIRVIEW AVE	EAST HALF OF FAIRVIEW AVE, EAST HALF OF WAUKECHON ST	MAINTAIN PEDESTRIAN TRAFFIC ON THE SOUTH SIDE OF STH 22 TO CROSS FAIRVIEW AVE
SW CORNER FAIRVIEW AVE	HAMLIN ST, EAST HALF OF FAIRVIEW AVE, NORTH HALF OF ELLIS ST	MAINTAIN PEDESTRIAN TRAFFIC ON THE NORTH SIDE OF STH 22 TO CROSS FAIRVIEW AVE
NW CORNER GREEN BAY CT AND SIDEWALK EXTENSION	EAST HALF OF FAIRVIEW AVE, EAST HALF OF WAUKECHON ST	MAINTAIN PEDESTRIAN TRAFFIC ON THE SOUTH SIDE OF STH 22
NE CORNER GREEN BAY CT	EAST HALF OF FAIRVIEW AVE, EAST HALF OF WAUKECHON ST	MAINTAIN PEDESTRIAN TRAFFIC ON THE SOUTH SIDE OF STH 22
NE CORNER ARLINGTON ST	EAST HALF OF FAIRVIEW AVE, EAST HALF OF WAUKECHON ST	MAINTAIN PEDESTRIAN TRAFFIC ON THE SOUTH SIDE OF STH 22
SIDEWALK EXTENSION SOUTH OF ARLINGTON ST	EAST HALF OF FAIRVIEW AVE, EAST HALF OF WAUKECHON ST, NORTH HALF OF GREEN BAY CT, NORTH HALF OF ARLINGTON ST	MAINTAIN PEDESTRIAN TRAFFIC ON THE NORTH SIDE OF STH 22
NE CORNER WAUKECHON ST	EAST HALF OF FAIRVIEW AVE, WEST HALF OF WOODLAWN DR	MAINTAIN PEDESTRIAN TRAFFIC ON THE SOUTH SIDE OF STH 22 TO CROSS WAUKECHON ST, MAINTAIN EXISTING CURB RAMP UNTIL THE PROPOSED CURB RAMP IS COMPLETE
SW CORNER WAUKECHON ST	EAST HALF OF FAIRVIEW AVE, WEST HALF OF WOODLAWN DR	MAINTAIN PEDESTRIAN TRAFFIC ON THE SOUTH SIDE OF STH 22
SE CORNER WAUKECHON ST	EAST HALF OF FAIRVIEW AVE, WEST HALF OF WOODLAWN DR	MAINTAIN PEDESTRIAN TRAFFIC ON THE SOUTH SIDE OF STH 22
NW CORNER WOODLAWN DR	EAST HALF OF WAUKECHON ST, EAST HALF OF WOODLAWN DR	MAINTAIN PEDESTRIAN TRAFFIC ON THE SOUTH SIDE OF STH 22 TO CROSS THE MCDONALD'S DRIVEWAYS
NE CORNER WOODLAWN DR	WEST HALF OF WAUKECHON ST, MOUNTAIN BAY TRAIL	MAINTAIN PEDESTRIAN TRAFFIC ON THE SOUTH SIDE OF STH 22 TO CROSS THE MCDONALD'S DRIVEWAYS
SW CORNER WOODLAWN DR	EAST HALF OF WAUKECHON ST, EAST HALF OF WOODLAWN DR	MAINTAIN PEDESTRIAN TRAFFIC ON THE NORTH SIDE OF STH 22 TO CROSS WOODLAWN DR
SE CORNER WOODLAWN DR	WEST HALF OF WAUKECHON ST, MOUNTAIN BAY TRAIL	MAINTAIN PEDESTRIAN TRAFFIC ON THE NORTH SIDE OF STH 22 TO CROSS WOODLAWN DR
SW MCDONALD'S DRIVEWAY	WEST HALF OF WAUKECHON ST, WEST HALF OF WOODLAWN DR	MAINTAIN PEDESTRIAN TRAFFIC ON THE NORTH SIDE OF STH 22
SE MCDONALD'S DRIVEWAY	WEST HALF OF WAUKECHON ST, WEST HALF OF WOODLAWN DR	MAINTAIN PEDESTRIAN TRAFFIC ON THE NORTH SIDE OF STH 22
N MOUNTAIN BAY TRAIL	EAST HALF OF WOODLAWN DR, SOUTH HALF OF THE MOUNTAIN BAY TRAIL CROSSING	CONSTRUCT THE MOUNTAIN BAY TRAIL CROSSING HALF AT A TIME TO MAINTAIN PEDESTRIAN TRAFFIC
S MOUNTAIN BAY TRAIL	EAST HALF OF WOODLAWN DR, NORTH HALF OF THE MOUNTAIN BAY TRAIL CROSSING	CONSTRUCT THE MOUNTAIN BAY TRAIL CROSSING HALF AT A TIME TO MAINTAIN PEDESTRIAN TRAFFIC
NE CORNER EBERLEIN PARK RD	--	MAINTAIN PEDESTRIAN TRAFFIC WITH THE USE OF TEMPORARY CURB RAMPS

NOTES

SEE SDD "TRAFFIC CONTROL, TEMPORARY PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION.

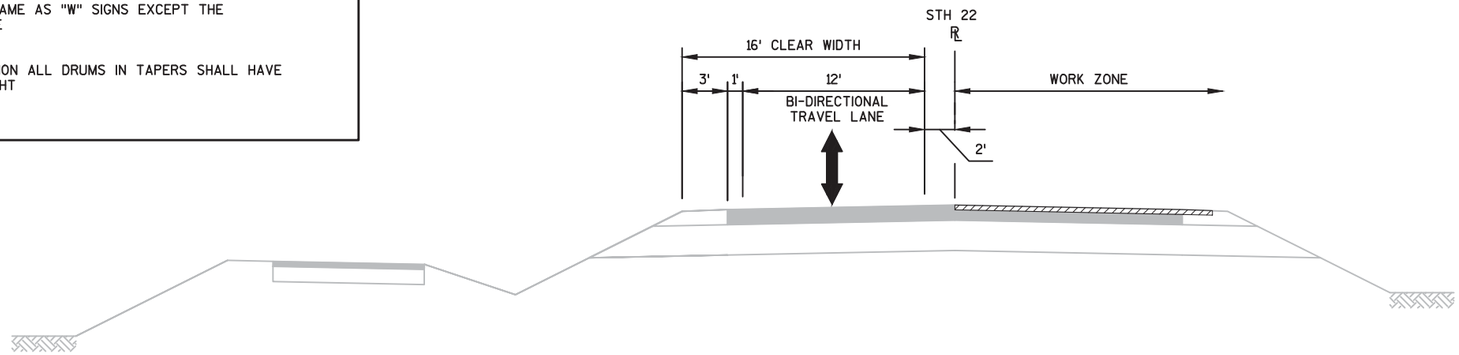
SEE THE MISCELLANEOUS QUANTITIES FOR ADDITIONAL INFORMATION REGARDING THE TEMPORARY PEDESTRIAN ACCOMMODATION ITEMS THAT ARE TO BE USED.

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TRAFFIC CONTROL GENERAL NOTES

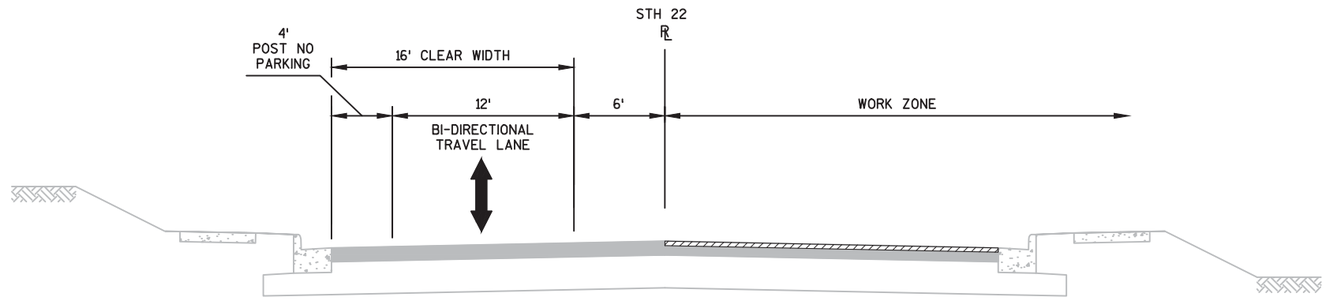
1. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED
2. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE
3. FOR NIGHTTIME OPERATION ALL DRUMS IN TAPERS SHALL HAVE A TYPE C WARNING LIGHT



TRAFFIC CONTROL TYPICAL SECTION STAGE MS1A & MS1B
STH 22 (MAIN STREET)
STA 1089+67 - STA 1100+00

MIRROR TRAFFIC CONTROL FOR STAGE MS1B WORK

PROPOSED WORK
MILL AND HMA OVERLAY



LEGEND
- WORK TO BE COMPLETED DURING STAGE
- WORK COMPLETED IN PREVIOUS STAGES

NOTES
TRAFFIC WILL BE MAINTAINED WITH THE USE OF FLAGGERS DURING WORKING HOURS, REOPEN LANES DURING NON-WORKING HOURS

SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION"

CURB RAMP AND SIDEWALK REPLACEMENTS MAY BE COMPLETED WITH SHOULDERS CLOSURES SEE SDD "WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY" FOR ADDITIONAL INFORMATION

MAINTAIN PEDESTRIAN TRAFFIC AT ALL TIMES, SEE THE "TRAFFIC CONTROL CURB RAMP STAGING ROUTES TABLE" AND SDD "TRAFFIC CONTROL. PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION

COMPLETE CURB RAMP AND SIDEWALK REPLACEMENTS PRIOR TO THE MILLING AND OVERLAY OPERATIONS

TRAFFIC CONTROL TYPICAL SECTION STAGE MS1A & MS2B
STH 22 (MAIN STREET)
STA 1100+00 - STA 1121+37

MIRROR TRAFFIC CONTROL FOR STAGE MS1B WORK

PROPOSED WORK
MILL AND HMA OVERLAY
CURB RAMP, SIDEWALK AND
CURB & GUTTER REPLACEMENTS

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STH 22 WOLF RIVER TO ZINGLER AVE (MS)	SHEET 88	E

2

LEGEND

WORK TO BE COMPLETED DURING STAGE

WORK COMPLETED IN PREVIOUS STAGES

STAGE GB1 NOTES

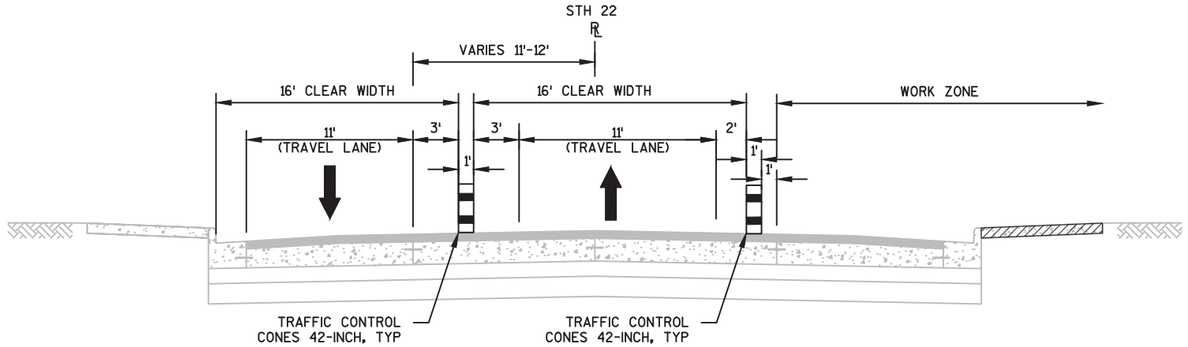
TRAFFIC WILL BE MAINTAINED WITH THE USE OF LANE CLOSURES AND FLAGGERS LOCATED AT INTERSECTIONS

SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY" AND SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATIONS"

MAINTAIN PEDESTRIAN TRAFFIC AT ALL TIMES, SEE THE "TRAFFIC CONTROL CURB RAMP STAGING ROUTES TABLE" AND SDD "TRAFFIC CONTROL. PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION

COMPLETE CURB RAMP AND SIDEWALK REPLACEMENTS PRIOR TO THE MILLING AND OVERLAY OPERATIONS

DURING NON-WORKING HOURS MOVE THE SHIFTED TRAVEL LANE BACK TO THE NORMAL TRAVEL LANE LOCATION AND MAINTAIN ONE TRAVEL LANE IN EACH DIRECTION



TRAFFIC CONTROL TYPICAL SECTION STAGE GB1A & GB1B
STH 22 (GREEN BAY STREET)
STA 1+85 - STA 29+35
STA 36+32 - STA 51+80

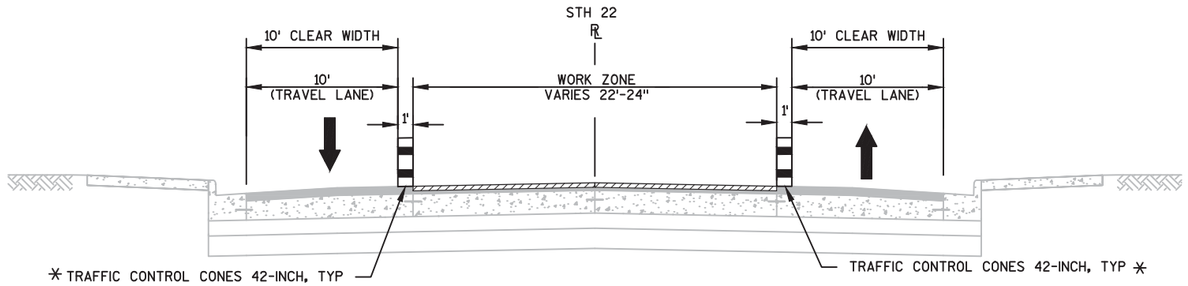
MIRROR TRAFFIC CONTROL FOR STAGE GB1B WORK

PROPOSED WORK
CURB RAMP, SIDEWALK AND CURB & GUTTER REPLACEMENTS

STAGE GB2 NOTES

TRAFFIC WILL BE MAINTAINED WITH THE USE OF LANE CLOSURES AND FLAGGERS LOCATED AT INTERSECTIONS

SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY" AND SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATIONS"



TRAFFIC CONTROL TYPICAL SECTION STAGE GB2
STH 22 (GREEN BAY STREET)
STA 1+85 - STA 29+35
STA 36+32 - STA 51+80

PROPOSED WORK
MILL AND HMA OVERLAY

STAGE GB3 & GB4 NOTES

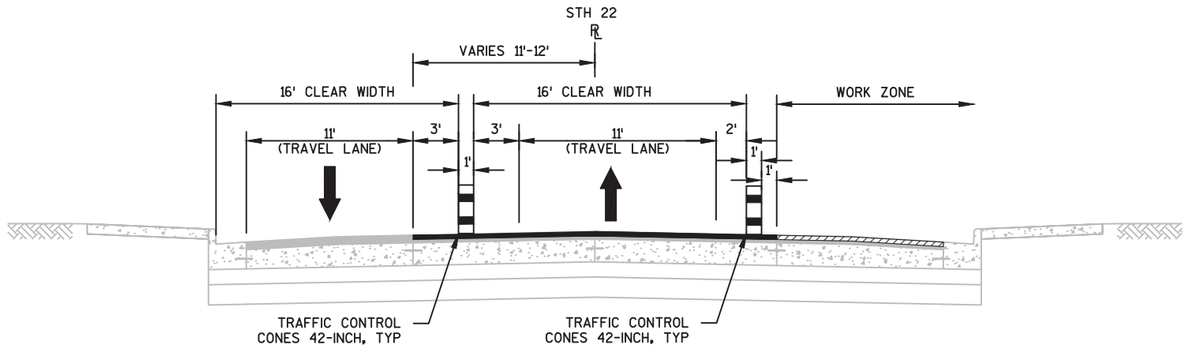
TRAFFIC WILL BE MAINTAINED WITH THE USE OF LANE CLOSURES AND FLAGGERS LOCATED AT INTERSECTIONS

SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY" AND SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATIONS"

FULL RECONSTRUCTION WORK FROM STA 22+10 - STA 26+40 AT RAILROAD TO BE COMPLETED UNDER DETOUR

⚹ TRAFFIC CONTROL CONES 42-INCH SHALL BE SHIFTED INTO THE WORK ZONE AREA WHEN WORK OPERATIONS ARE NOT PRESENT TO INCREASE THE TRAVEL LANE WIDTH

DURING NON-WORKING HOURS MOVE THE SHIFTED TRAVEL LANE BACK TO THE NORMAL TRAVEL LANE LOCATION AND MAINTAIN ONE TRAVEL LANE IN EACH DIRECTION



TRAFFIC CONTROL TYPICAL SECTION STAGE GB3 & GB4
STH 22 (GREEN BAY STREET)
STA 1+85 - STA 29+35
STA 36+32 - STA 51+80

MIRROR TRAFFIC CONTROL FOR STAGE GB4 WORK

PROPOSED WORK
MILL AND HMA OVERLAY

PROJECT NO: 9180-23-71/72	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STH 22 S MAIN ST TO WAUKECHON ST (GB)	SHEET 89	E

2

LEGEND

WORK TO BE COMPLETED DURING STAGE

WORK COMPLETED IN PREVIOUS STAGES

STAGING NOTES

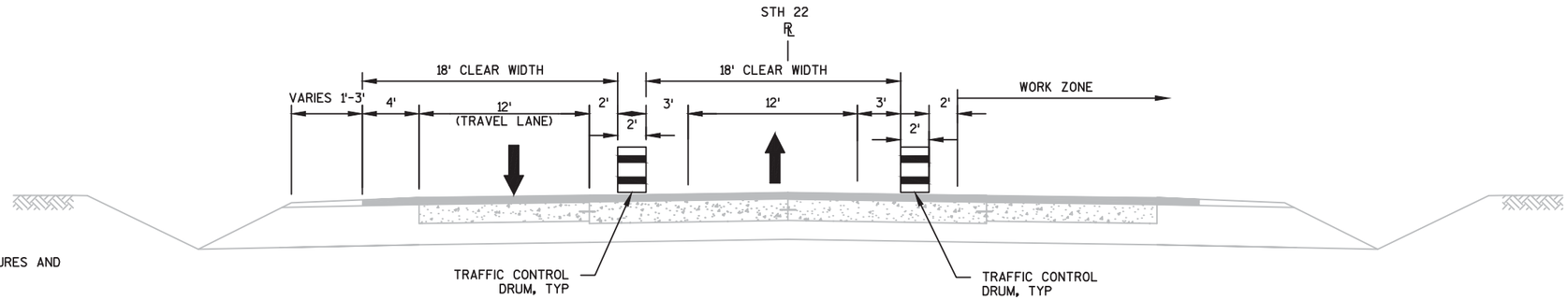
TRAFFIC WILL BE MAINTAINED WITH THE USE OF LANE CLOSURES AND FLAGGERS LOCATED AT INTERSECTIONS

SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY" AND SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATIONS"

MAINTAIN PEDESTRIAN TRAFFIC AT ALL TIMES, SEE THE "TRAFFIC CONTROL CURB RAMP STAGING ROUTES TABLE" AND SDD "TRAFFIC CONTROL. PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION

COMPLETE CURB RAMP AND SIDEWALK REPLACEMENTS PRIOR TO THE MILLING AND OVERLAY OPERATIONS

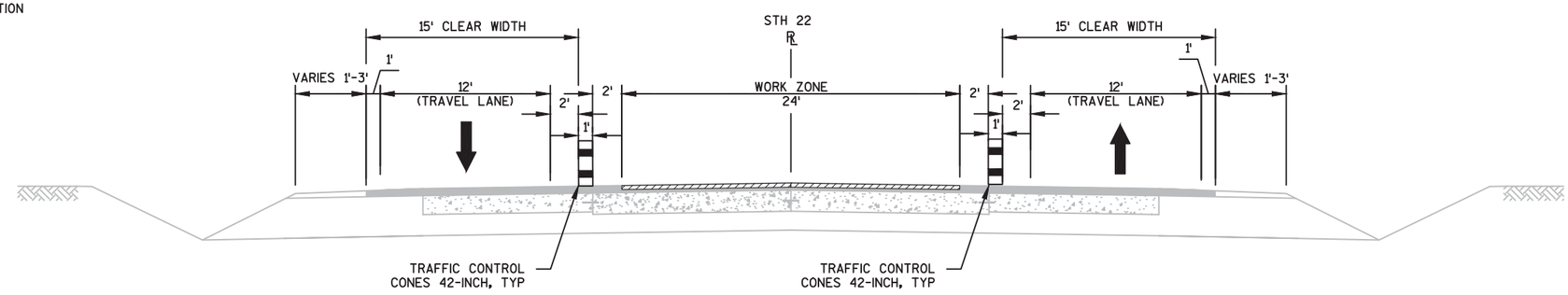
DURING NON-WORKING HOURS IN STAGES GB1A, GB1B, GB3 AND GB4, MOVE THE SHIFTED TRAVEL LANE BACK TO THE NORMAL TRAVEL LANE LOCATION AND MAINTAIN ONE TRAVEL LANE IN EACH DIRECTION



TRAFFIC CONTROL TYPICAL SECTION STAGE GB1A & GB1B
STH 22 (GREEN BAY STREET)
STA 65+09 - STA 71+76
STA 79+70 - STA 100+16
STA 114+05 - STA 139+72

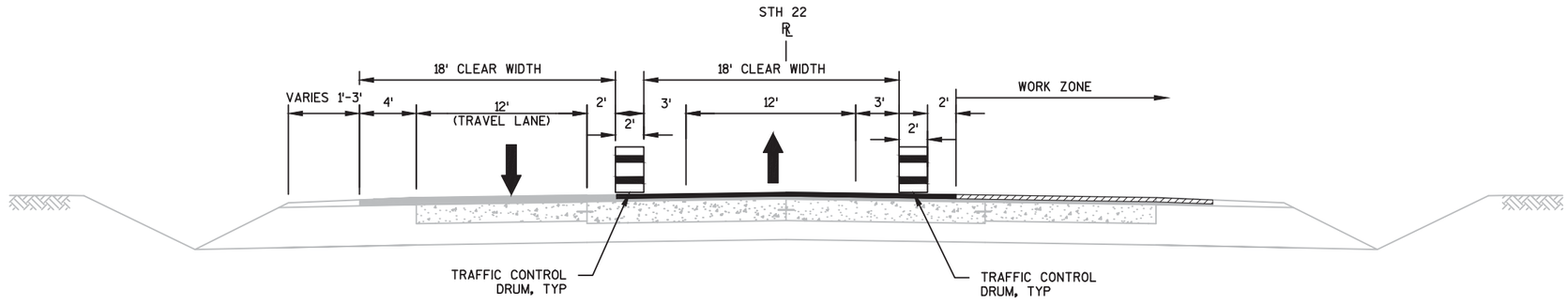
MIRROR TRAFFIC CONTROL FOR STAGE GB1B WORK

PROPOSED WORK
CURB RAMP, SIDEWALK AND CURB & GUTTER REPLACEMENTS



TRAFFIC CONTROL TYPICAL SECTION STAGE GB2
STH 22 (GREEN BAY STREET)
STA 65+09 - STA 71+76
STA 79+70 - STA 100+16
STA 114+05 - STA 139+72

PROPOSED WORK
MILL AND HMA OVERLAY

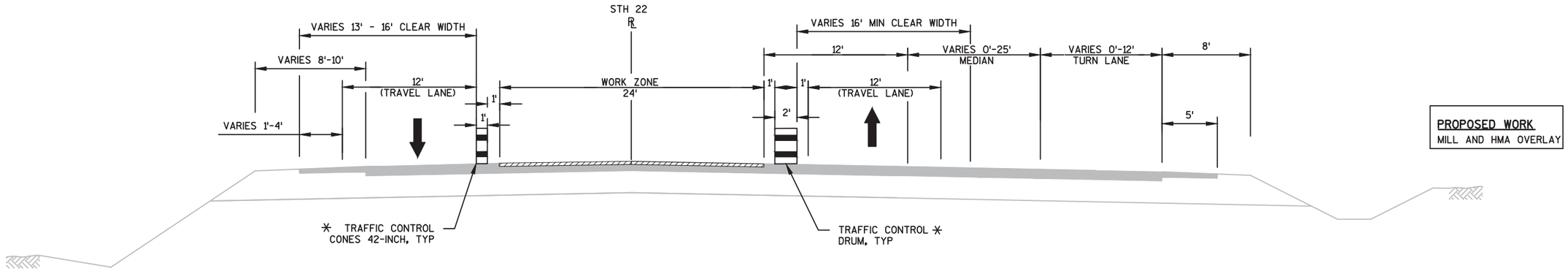


TRAFFIC CONTROL TYPICAL SECTION STAGE GB3 & GB4
STH 22 (GREEN BAY STREET)
STA 65+09 - STA 71+76
STA 79+70 - STA 100+16
STA 114+05 - STA 139+72

MIRROR TRAFFIC CONTROL FOR STAGE GB4 WORK

PROPOSED WORK
MILL AND HMA OVERLAY

PROJECT NO: 9180-23-71/72	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STH 22 WAUKECHON ST TO RUSCH RD (GB)	SHEET 90 E



LEGEND

WORK TO BE COMPLETED DURING STAGE

WORK COMPLETED IN PREVIOUS STAGES

STAGING NOTES

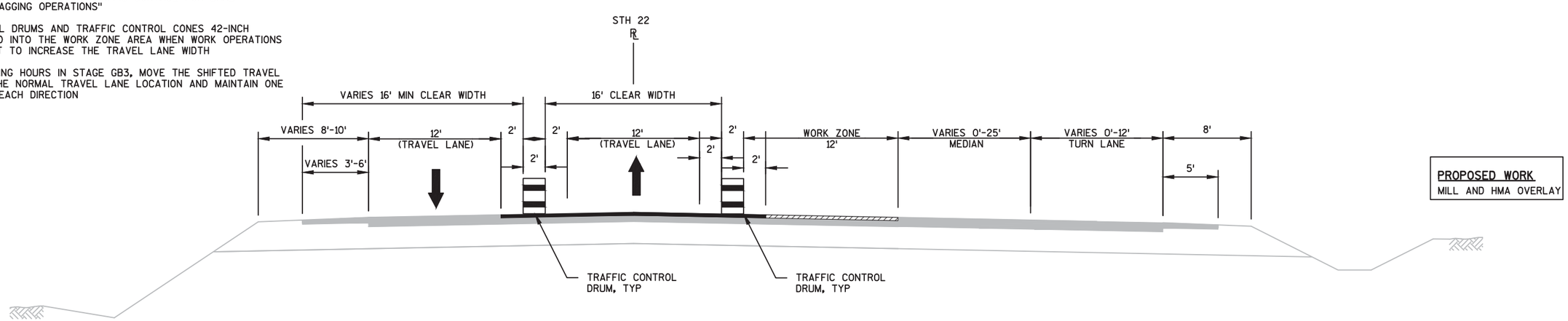
TRAFFIC WILL BE MAINTAINED WITH THE USE OF LANE CLOSURES AND FLAGGERS LOCATED AT INTERSECTIONS

SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY" AND SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATIONS"

✳ TRAFFIC CONTROL DRUMS AND TRAFFIC CONTROL CONES 42-INCH SHALL BE SHIFTED INTO THE WORK ZONE AREA WHEN WORK OPERATIONS ARE NOT PRESENT TO INCREASE THE TRAVEL LANE WIDTH

DURING NON-WORKING HOURS IN STAGE GB3, MOVE THE SHIFTED TRAVEL LANE BACK TO THE NORMAL TRAVEL LANE LOCATION AND MAINTAIN ONE TRAVEL LANE IN EACH DIRECTION

TRAFFIC CONTROL TYPICAL SECTION STAGE GB2
STH 22 (GREEN BAY STREET)
STA 139+72 -STA 156+82



TRAFFIC CONTROL TYPICAL SECTION STAGE GB3
STH 22 (GREEN BAY STREET)
STA 139+72 -STA 156+82

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STH 22 RUSCH RD TO END OF PROJECT (GB)	SHEET 91	E

2

LEGEND

WORK TO BE COMPLETED DURING STAGE

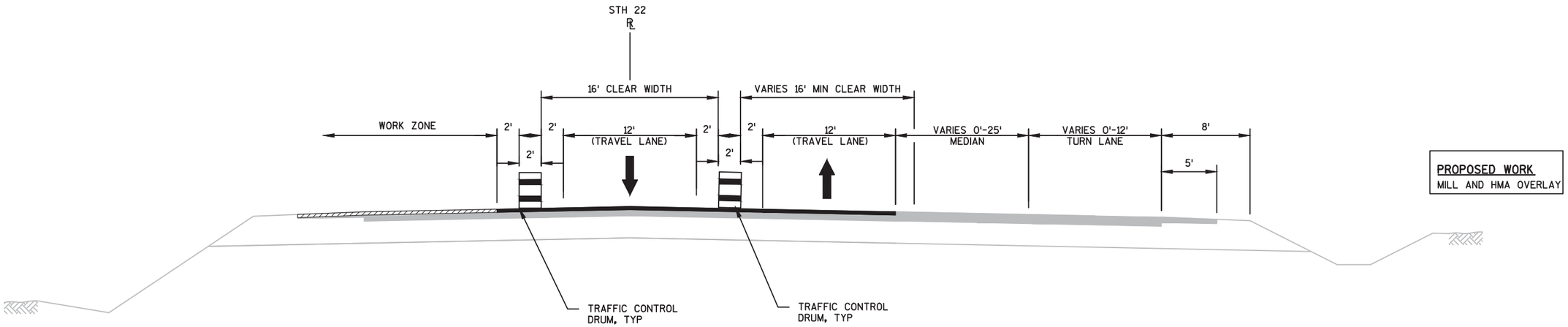
WORK COMPLETED IN PREVIOUS STAGES

STAGING NOTES

TRAFFIC WILL BE MAINTAINED WITH THE USE OF LANE CLOSURES AND FLAGGERS LOCATED AT INTERSECTIONS

SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY" AND SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATIONS"

DURING NON-WORKING HOURS IN STAGE GB4, MOVE THE SHIFTED TRAVEL LANE BACK TO THE NORMAL TRAVEL LANE LOCATION AND MAINTAIN ONE TRAVEL LANE IN EACH DIRECTION



PROPOSED WORK

MILL AND HMA OVERLAY

TRAFFIC CONTROL TYPICAL SECTION STAGE GB4

STH 22 (GREEN BAY STREET)

STA 139+72 -STA 156+82

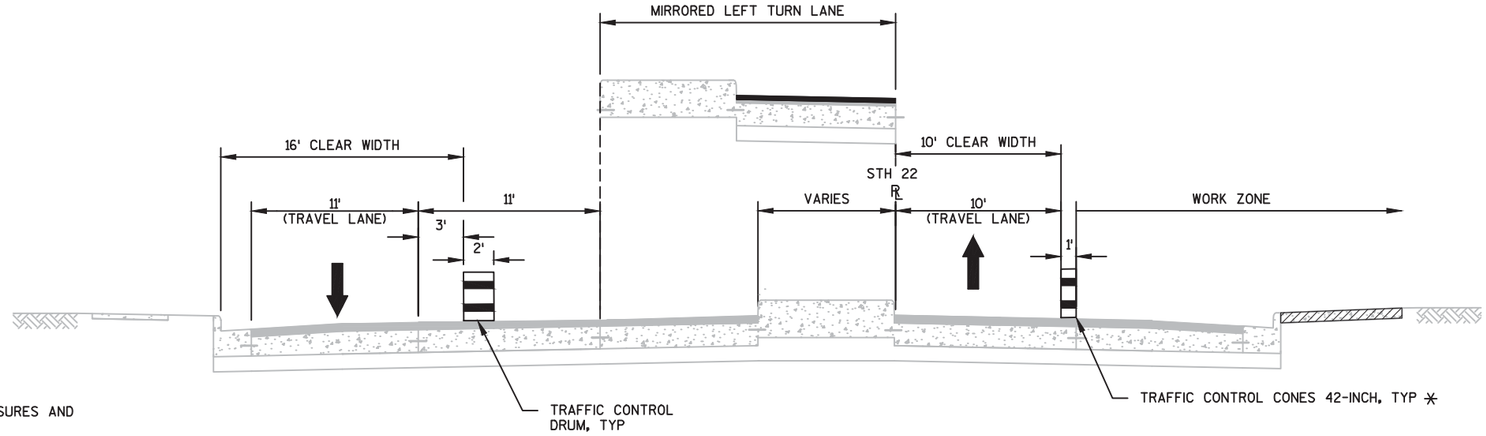
PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STH 22 RUSCH RD TO END OF PROJECT (GB)	SHEET 92	E

2

LEGEND

WORK TO BE COMPLETED DURING STAGE

WORK COMPLETED IN PREVIOUS STAGES



PROPOSED WORK

CURB RAMP, SIDEWALK AND CURB & GUTTER REPLACEMENTS

STAGING NOTES

TRAFFIC WILL BE MAINTAINED WITH THE USE OF LANE CLOSURES AND FLAGGERS LOCATED AT INTERSECTIONS

SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY" AND SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATIONS"

⚹ TRAFFIC CONTROL CONES 42-INCH SHALL BE SHIFTED INTO THE WORK ZONE AREA WHEN WORK OPERATIONS ARE NOT PRESENT TO INCREASE THE TRAVEL LANE WIDTH

MAINTAIN LEFT TURN LANES AT ALL TIMES EXCEPT DURING MILLING AND OVERLAY OPERATIONS

MAINTAIN PEDESTRIAN TRAFFIC AT ALL TIMES, SEE THE "TRAFFIC CONTROL CURB RAMP STAGING ROUTES TABLE" AND SDD "TRAFFIC CONTROL. PEDESTRIAN ACCOMMODATION" FOR ADDITIONAL INFORMATION

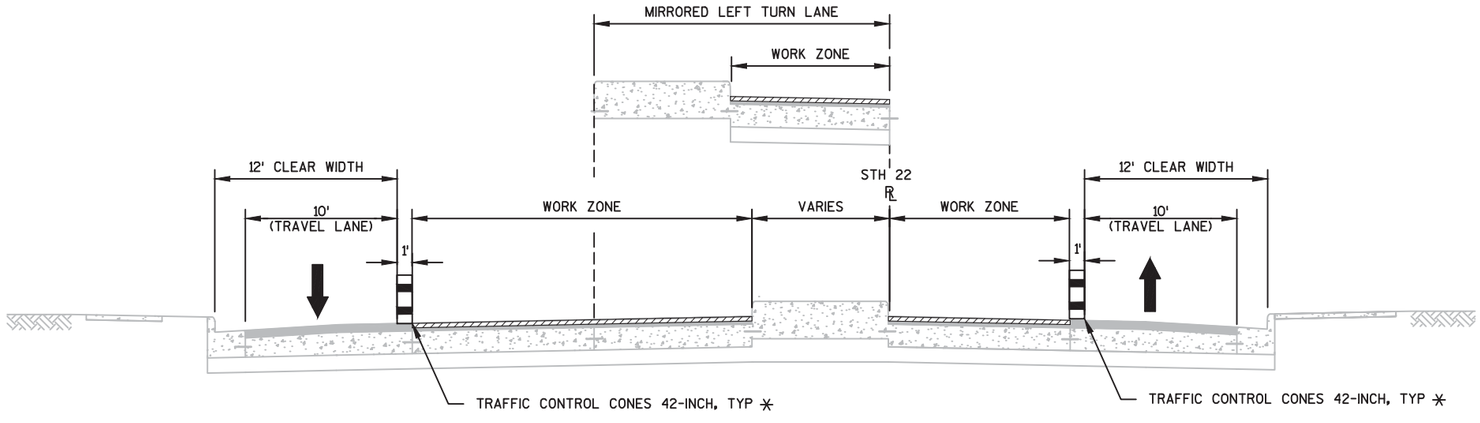
COMPLETE CURB RAMP AND SIDEWALK REPLACEMENTS PRIOR TO THE MILLING AND OVERLAY OPERATIONS

TRAFFIC CONTROL TYPICAL SECTION STAGE GB1A GB1B

STH 22 (GREEN BAY STREET)

STA 29+35 - STA 36+32
(FAIRVIEW AVE INTERSECTION)
STA 51+80 - STA 65+09
(WAUKECHON ST AND WOODLAWN DR INTERSECTION)
STA 71+76 STA 79+70
(EBERLEIN PARK DR INTERSECTION)
STA 100+16 - STA 114+05
(STH 47/STH 55 INTERSECTION/CTH HHH)

MIRROR TRAFFIC CONTROL FOR STAGE GB1B WORK



PROPOSED WORK

MILL AND HMA OVERLAY

TRAFFIC CONTROL TYPICAL SECTION STAGE GB2

STH 22 (GREEN BAY STREET)

STA 29+35 - STA 36+32
(FAIRVIEW AVE INTERSECTION)
STA 51+80 - STA 65+09
(WAUKECHON ST AND WOODLAWN DR INTERSECTION)
STA 71+76 STA 79+70
(EBERLEIN PARK DR INTERSECTION)
STA 100+16 - STA 114+05
(STH 47/STH 55 INTERSECTION/CTH HHH)

2

2

LEGEND

WORK TO BE COMPLETED DURING STAGE

WORK COMPLETED IN PREVIOUS STAGES

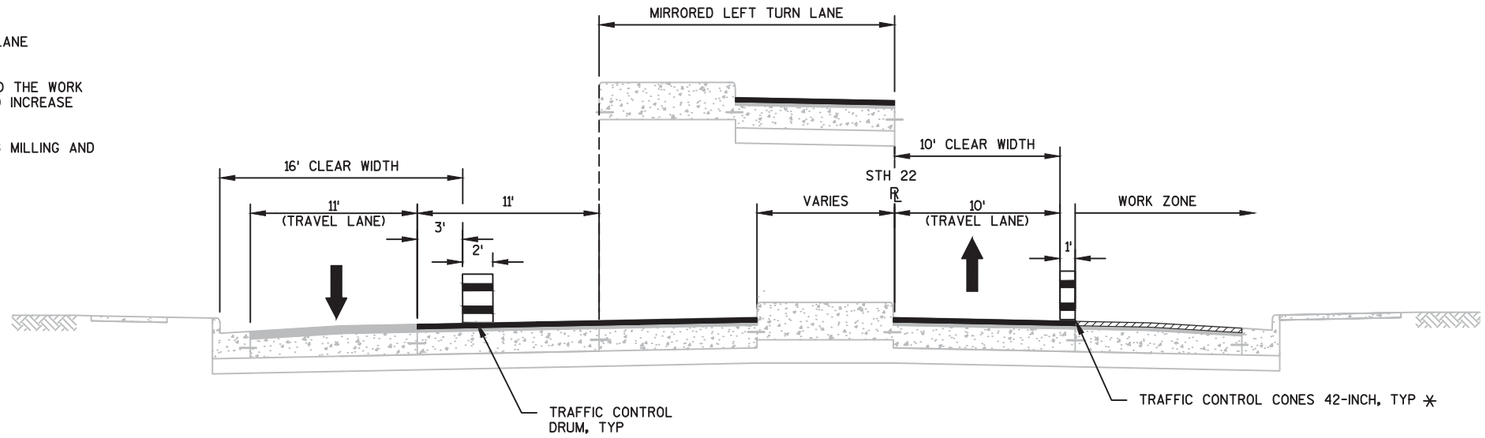
STAGING NOTES

TRAFFIC WILL BE MAINTAINED WITH THE USE OF LANE CLOSURES AND FLAGGERS LOCATED AT INTERSECTIONS

SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY" AND SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATIONS"

⚹ TRAFFIC CONTROL CONES 42-INCH SHALL BE SHIFTED INTO THE WORK ZONE AREA WHEN WORK OPERATIONS ARE NOT PRESENT TO INCREASE THE TRAVEL LANE WIDTH

MAINTAIN LEFT TURN LANES AT ALL TIMES EXCEPT DURING MILLING AND OVERLAY OPERATIONS



PROPOSED WORK
MILL AND HMA OVERLAY

TRAFFIC CONTROL TYPICAL SECTION STAGE GB3 & GB4
STH 22 (GREEN BAY STREET)

STA 29+35 - STA 36+32
(FAIRVIEW AVE INTERSECTION)
STA 51+80 - STA 65+09
(WAUKECHON ST AND WOODLAWN DR INTERSECTION)
STA 71+76 STA 79+70
(EBERLEIN PARK DR INTERSECTION)
STA 100+16 - STA 114+05
(STH 47/STH 55 INTERSECTION/CTH HHH)

MIRROR TRAFFIC CONTROL FOR STAGE GB4 WORK

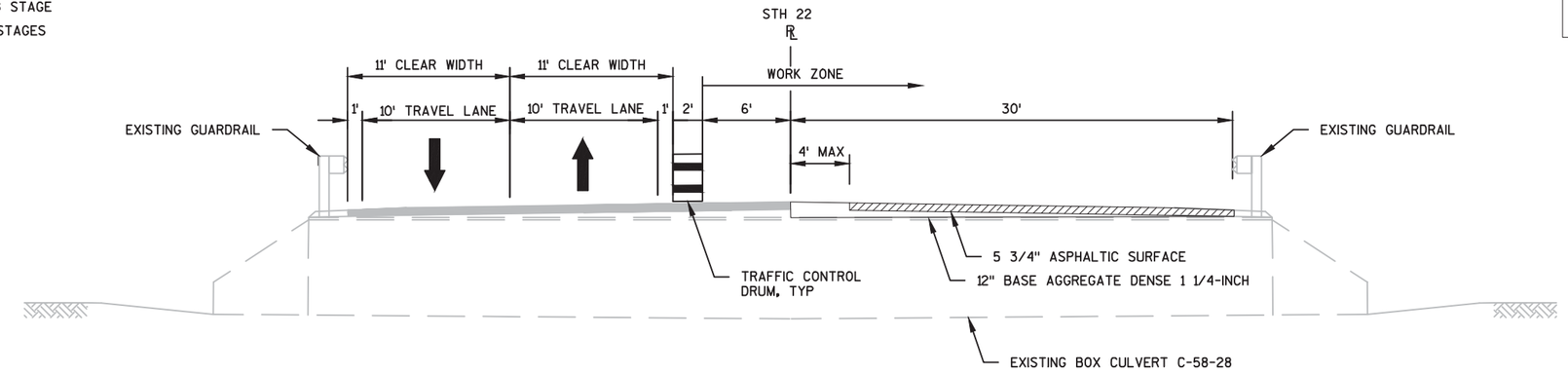
PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STH 22 DIVIDED INTERSECTIONS (GB)	SHEET 94	E

LEGEND

WORK TO BE COMPLETED DURING STAGE

WORK COMPLETED IN PREVIOUS STAGES

PROPOSED WORK
INSTALL RT HALF OF TEMPORARY CULVERT PIPE AND TEMPORARY DIVERSION CHANNEL. REINSTALL ALL GUARDRAIL THAT WAS DISTURBED DURING THE TEMPORARY CULVERT REPLACEMENT. REPAVE WITH ASPHALTIC SURFACE FROM STA 135+70 TO STA 136+20 PRIOR TO OPENING TRAFFIC.



TRAFFIC CONTROL TYPICAL SECTION STAGE MC1
STH 22 C-58-31 MURRAY CREEK BOX CULVERT REPLACEMENT
STA 133+50 - STA 139+20

MURRAY CREEK BOX CULVERT STAGING NOTES

TRAFFIC WILL BE MAINTAINED WITH THE USE OF LANE CLOSURES AND WILL BE SHIFTED ON TO THE PAVED SHOULDER

SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY"

DURING SHOULDER AND DITCH RESTORATION, THE SHOULDER WILL BE CLOSED DURING NON WORKING HOURS. SEE SDD "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY"

COMPLETE ALL BOX CULVERT WORK PRIOR TO THE HMA OVERLAY

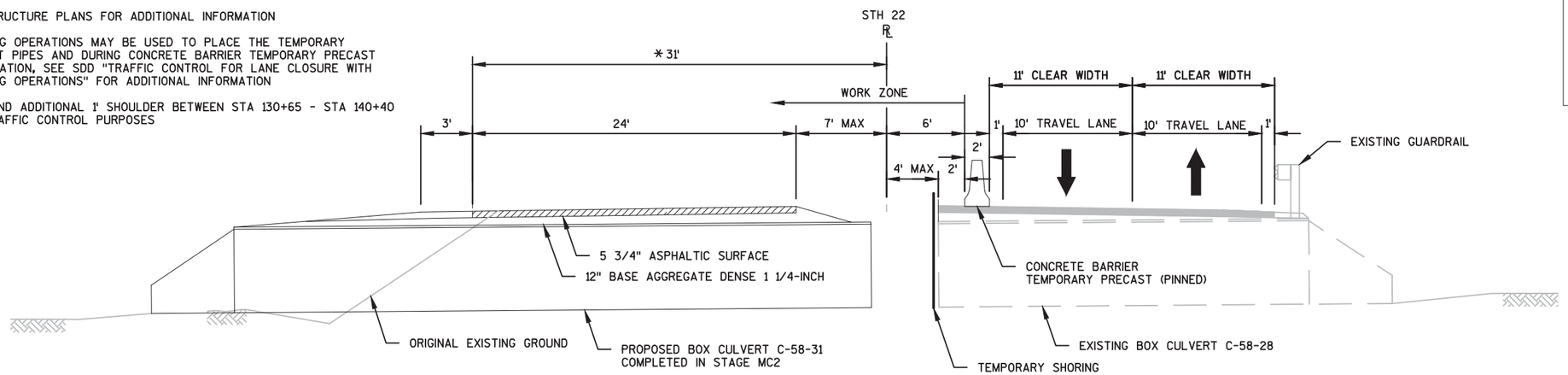
SEE STRUCTURE PLANS FOR ADDITIONAL INFORMATION

FLAGGING OPERATIONS MAY BE USED TO PLACE THE TEMPORARY CULVERT PIPES AND DURING CONCRETE BARRIER TEMPORARY PRECAST INSTALLATION, SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATIONS" FOR ADDITIONAL INFORMATION

*PAVE AND ADDITIONAL 1' SHOULDER BETWEEN STA 130+65 - STA 140+40 FOR TRAFFIC CONTROL PURPOSES

PROPOSED WORK
INSTALL LT HALF OF THE TEMPORARY CULVERT PIPE AND COMPLETE THE TEMPORARY DIVERSION CHANNEL.

REMOVE LT HALF OF BOX CULVERT C-58-28 AND CONSTRUCT LT HALF OF BOX CULVERT C-58-31. REPAVE WITH ASPHALTIC SURFACE FROM STA 135+70 TO STA 136+70 PRIOR TO OPENING TO TRAFFIC.



TRAFFIC CONTROL TYPICAL SECTION STAGE MC2
STH 22 C-58-31 MURRAY CREEK BOX CULVERT REPLACEMENT
STA 131+60 - STA 140+90

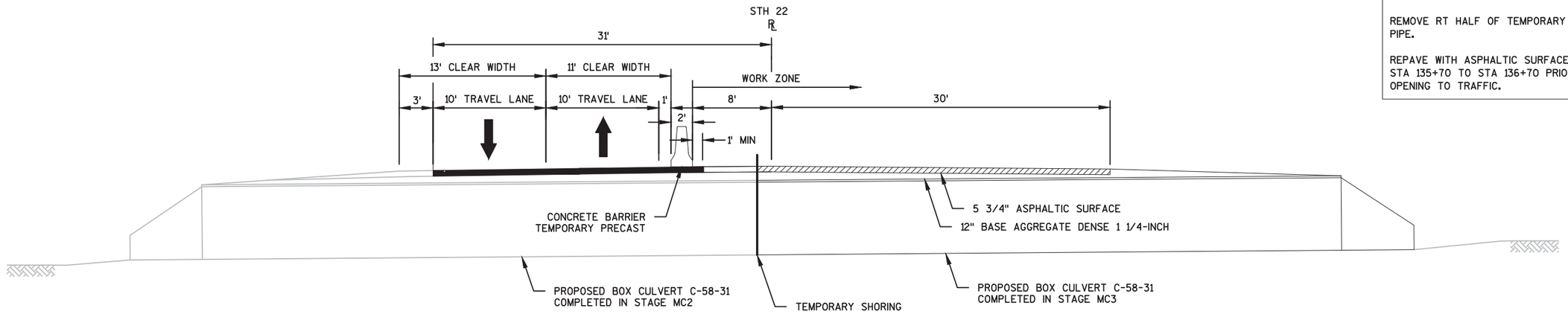
2

PROPOSED WORK

REMOVE RT HALF OF BOX CULVERT C-58-28, CONSTRUCT RT HALF OF BOX CULVERT C-58-31.

REMOVE RT HALF OF TEMPORARY CULVERT PIPE.

REPAVE WITH ASPHALTIC SURFACE FROM STA 135+70 TO STA 136+70 PRIOR TO OPENING TO TRAFFIC.



TRAFFIC CONTROL TYPICAL SECTION STAGE MC3
STH 22 C-58-31 MURRAY CREEK BOX CULVERT REPLACEMENT
STA 131+60 - STA 140+90

MURRAY CREEK BOX CULVERT STAGING NOTES

TRAFFIC WILL BE MAINTAINED WITH THE USE OF LANE CLOSURES AND WILL BE SHIFTED ON TO THE PAVED SHOULDER

SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY"

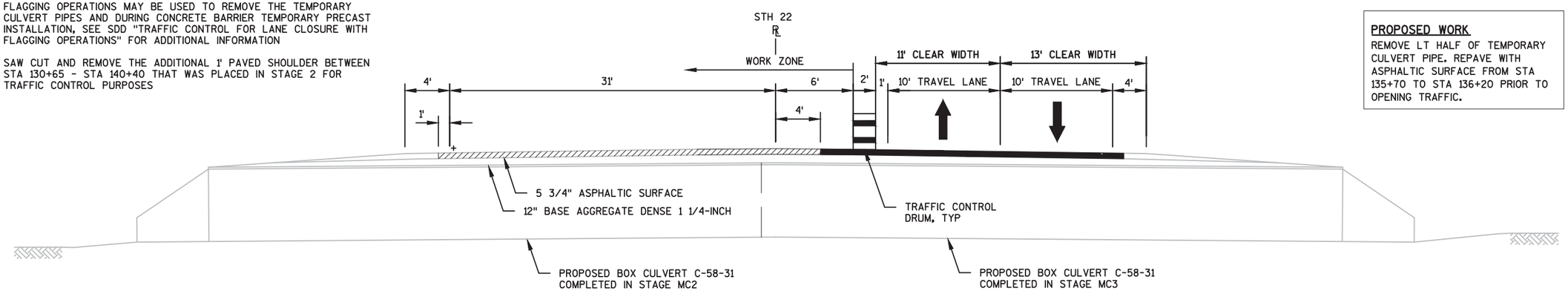
DURING SHOULDER AND DITCH RESTORATION, THE SHOULDER WILL BE CLOSED DURING NON WORKING HOURS. SEE SDD "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY"

COMPLETE ALL BOX CULVERT WORK PRIOR TO THE HMA OVERLAY

SEE STRUCTURE PLANS FOR ADDITIONAL INFORMATION

FLAGGING OPERATIONS MAY BE USED TO REMOVE THE TEMPORARY CULVERT PIPES AND DURING CONCRETE BARRIER TEMPORARY PRECAST INSTALLATION, SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATIONS" FOR ADDITIONAL INFORMATION

SAW CUT AND REMOVE THE ADDITIONAL 1' PAVED SHOULDER BETWEEN STA 130+65 - STA 140+40 THAT WAS PLACED IN STAGE 2 FOR TRAFFIC CONTROL PURPOSES



PROPOSED WORK

REMOVE LT HALF OF TEMPORARY CULVERT PIPE. REPAVE WITH ASPHALTIC SURFACE FROM STA 135+70 TO STA 136+20 PRIOR TO OPENING TRAFFIC.

TRAFFIC CONTROL TYPICAL SECTION STAGE MC4
STH 22 C-58-31 MURRAY CREEK BOX CULVERT REPLACEMENT
STA 131+60 - STA 140+90

NOTES

TEMPORARY MARKING, TRAFFIC CONTROL SIGNS, TRAFFIC CONTROL DRUMS AND ARROW BOARDS ARE SHOWN ON THE PLANS, SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY" FOR ADDITIONAL INFORMATION

TRAFFIC WILL BE MAINTAINED WITH THE USE OF LANE CLOSURES AND WILL BE SHIFTED ON TO THE PAVED SHOULDER

DURING SHOULDER AND DITCH RESTORATION, THE SHOULDER WILL BE CLOSED DURING NON WORKING HOURS. SEE SDD "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY"

COMPLETE ALL BOX CULVERT WORK PRIOR TO THE HMA OVERLAY

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- xxxx MR4 — MARKING REMOVAL LINE 4-INCH
- xxxx MR8 — MARKING REMOVAL LINE 8-INCH
- TY — TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- TW — TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- FLASHING ARROW BOARD

N

STH 22

115+00 116+00 117+00 118+00 119+00 120+00 121+00

50' TYP

xxxx xxxx xxxx

2

2

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- xxxx. MR4 — MARKING REMOVAL LINE 4-INCH
- xxxx. MR8 — MARKING REMOVAL LINE 8-INCH
- TY — TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- TW — TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- FLASHING ARROW BOARD

N

STH 22

121+00 122+00 123+00 124+00 +75 125+00 126+00 127+00

50' TYP

+95

+50

MR4

10' TYP.

175' TAPER

ONE WAY
R6-2-R
24"X30"

TY

TW

540' TAPER

180' LANE TAPER

855' SHIFTING TAPER

LANE CLOSED
R11-2L
48"X30"

SIGN POST FLAG W

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE MC1 - MURRAY CREEK BOX CULVERT	SHEET 98	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\025101-TC - S1.DWG
LAYOUT NAME - 050229-PN

PLOT DATE : 10/11/2018 2:03 PM PLOT BY : DREW NELSON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- xxxx MR4 — MARKING REMOVAL LINE 4-INCH
- xxxx MR8 — MARKING REMOVAL LINE 8-INCH
- TY — TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- TW — TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- FLASHING ARROW BOARD

N

TY
50' TYP
127+00
128+00
129+00
+25
130+00
+60
10'
131+00
+43
+95
132+00
133+00
TW
MR4
STH 22
855' SHIFTING TAPER
10' TYP.
GUY
GV
SIGN
MH
WV
POST
SEPC
FLAG
R3-1
24"X24"

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE MC1 - MURRAY CREEK BOX CULVERT	SHEET 99	E

2

NOTES
SEE TEMPORARY DIVERSION DETAIL FOR ADDITIONAL INFORMATION.

* PLACE AT THE INTERSECTION OF RUSCH RD AND RICHMOND ST

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- xxxx MR4 — MARKING REMOVAL LINE 4-INCH
- xxxx MR8 — MARKING REMOVAL LINE 8-INCH
- TY — TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- TW — TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- FLASHING ARROW BOARD

PROPOSED WORK
INSTALL RT HALF OF TEMPORARY CULVERT PIPE AND TEMPORARY DIVERSION CHANNEL. REINSTALL ALL GUARDRAIL THAT WAS DISTURBED DURING THE TEMPORARY CULVERT REPLACEMENT. REPAVE WITH ASPHALTIC SURFACE PRIOR TO OPENING TRAFFIC.

N

R3-2
24"X24"

220' BUFFER SPACE

220' BUFFER SPACE

50' TYP

855' SHIFTING TAPER

133+00 134+00 135+00 136+00 137+00 138+00 139+00

+30 +20

10' 10' 9'

STH 22

RUSCH RD

BRIDGE OUT
R11-2-B
48"X30"

BRIDGE OUT
R11-2-B
48"X30"

REPLACING GUARDRAIL RAIL AND HARDWARE

ROAD CLOSED
R11-2
48"X30"

500'

ROAD CLOSED 500 FT
W20-3-D

*

ROAD CLOSED AHEAD
W20-3-A

MURRAY CREEK

GV MH GUY POST SIGN FOOTBRIDGE

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE MC1 - MURRAY CREEK BOX CULVERT	SHEET 100	E

2

2

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- xxxx MR4 — MARKING REMOVAL LINE 4-INCH
- xxxx MR8 — MARKING REMOVAL LINE 8-INCH
- TY — TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- TW — TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- FLASHING ARROW BOARD

N

220' BUFFER SPACE

50' TYP

855' SHIFTING TAPER

MR4

TY

MR4

TW

+20

+71

10'

10'

139+00

140+00

141+00

142+00

143+00

+20

144+00

145+00

MR4

MR4

STH 22

TRAFFIC CONTROL COVERING SIGNS TYPE II

50' TYP

TW

SIGN

GUY

POST

WV

WV

WV

GUY

SIGN

SIGN

SIGN

CANOPY

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE MC1 - MURRAY CREEK BOX CULVERT	SHEET 101	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\025101-TC - S1.DWG
LAYOUT NAME - 050232-PN

PLOT DATE : 10/11/2018 2:03 PM PLOT BY : DREW NELSON PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

NOTE
* PLACE AT THE INTERSECTION OF MADISON WAY AND HUNTER ST

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- xxxx. (MR4) MARKING REMOVAL LINE 4-INCH
- xxxx. (MR8) MARKING REMOVAL LINE 8-INCH
- (TY) TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- (TW) TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- FLASHING ARROW BOARD

N

SIGN
POST
MH
R3-2
24"X24"
855' SHIFTING TAPER
TW
MR4
TY
+83
+75
148+00
145+00
146+00
147+00
149+00
150+00
151+00
STH 22
50' TYP
12'
10'
+72
+33
REM
ROAD CLOSED
R11-2
48"X30"
COUNTY BE
J13-1
24"X45"
R3-1
24"X24"
500'
ROAD CLOSED 500 FT
W20-3-D
*
ROAD CLOSED AHEAD
W20-3-A
MADISON WAY

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE MC1 - MURRAY CREEK BOX CULVERT	SHEET 102	E

2

2

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- xxxx. (MR4) MARKING REMOVAL LINE 4-INCH
- xxxx. (MR8) MARKING REMOVAL LINE 8-INCH
- (TY) TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- (TW) TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- FLASHING ARROW BOARD

N

LANE CLOSED
R11-2L
48"X30"

50' TYP

151+00 152+00 153+00 154+00 155+00 156+00 157+00

STH 22

12'
12'

CTH BE

POST
POST
SIGN

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE MC1 - MURRAY CREEK BOX CULVERT	SHEET 103	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\025101-TC - S1.DWG
LAYOUT NAME - 050233-PN

PLOT DATE : 10/11/2018 2:04 PM PLOT BY : DREW NELSON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- xxxx. (MR4) MARKING REMOVAL LINE 4-INCH
- xxxx. (MR8) MARKING REMOVAL LINE 8-INCH
- (TY) TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- (TW) TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- FLASHING ARROW BOARD

N

ASH CIR

POST

MH

157+00

158+00

STH 22

159+00

160+00

SIGN

SIGN

POST

ASH CT

END
ROAD WORK
G20-2A
48"X24"

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE MC1 - MURRAY CREEK BOX CULVERT	SHEET 104	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\025101-TC - S1.DWG
LAYOUT NAME - 050233-PN

PLOT DATE : 10/11/2018 2:04 PM PLOT BY : DREW NELSON PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

NOTES

TEMPORARY MARKING, TRAFFIC CONTROL SIGNS, TRAFFIC CONTROL DRUMS AND ARROW BOARDS ARE SHOWN ON THE PLANS, SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY" FOR ADDITIONAL INFORMATION

TRAFFIC WILL BE MAINTAINED WITH THE USE OF LANE CLOSURES AND WILL BE SHIFTED ON TO THE PAVED SHOULDER

DURING SHOULDER AND DITCH RESTORATION, THE SHOULDER WILL BE CLOSED DURING NON WORKING HOURS. SEE SDD "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY"

COMPLETE ALL BOX CULVERT WORK PRIOR TO THE HMA OVERLAY

REMOVE CONFLICTING TEMPORARY MARKING COMPLETED IN PREVIOUS STAGE

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- xxxx. (MR4) MARKING REMOVAL LINE 4-INCH
- xxxx. (MR8) MARKING REMOVAL LINE 8-INCH
- (TY) TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- (TW) TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- ASPHALTIC SURFACE PLACED IN PREVIOUS STAGE
- TEMPORARY SHORING
- FLASHING ARROW BOARD

N

2

1400' SHIFTING TAPER

MR4

TW

+61

+50

TY

50' TYP

+09

116+00

115+00

STH 22

117+00

+75

118+00

119+00

120+00

121+00

50' TYP

TY

630' TAPER

ONE WAY
R6-2-R
24"X30"

ONE WAY
R6-2-R
24"X30"

ROAD WORK AHEAD
W20-1-A

LEFT LANE CLOSED 1500 FT
W20-5SB

W04-2L

1000'

1000'

500'

SIGN

POST

FLAG

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE MC2 - MURRAY CREEK BOX CULVERT	SHEET 105	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\025201-TC - S2.DWG
LAYOUT NAME - 050228-PN

PLOT DATE : 10/11/2018 2:06 PM PLOT BY : DREW NELSON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- xxxx. (MR4) MARKING REMOVAL LINE 4-INCH
- xxxx. (MR8) MARKING REMOVAL LINE 8-INCH
- (TY) TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- (TW) TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- ASPHALTIC SURFACE PLACED IN PREVIOUS STAGE
- TEMPORARY SHORING
- FLASHING ARROW BOARD

N

1400' SHIFTING TAPER

STH 22

MR4

TW

10' TYP

10'

12'

121+00

122+00

123+00

+05

124+00

125+00

126+00

127+00

50' TYP

50' TYP

630' TAPER

TY

ONE WAY
R6-2-R
24"X30"

ONE WAY
R6-2-R
24"X30"

ONE WAY
R6-2-R
24"X30"

POST

SIGN

SIGN

SIGN

SIGN

W

W

W

W

W

FLAG

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE MC2 - MURRAY CREEK BOX CULVERT	SHEET 106	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\025201-TC - S2.DWG
LAYOUT NAME - 050229-PN

PLOT DATE : 10/11/2018 2:06 PM PLOT BY : DREW NELSON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- xxxx MR4 — MARKING REMOVAL LINE 4-INCH
- xxxx MR8 — MARKING REMOVAL LINE 8-INCH
- TY — TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- TW — TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- ASPHALTIC SURFACE PLACED IN PREVIOUS STAGE
- TEMPORARY SHORING
- FLASHING ARROW BOARD

N

1400' SHIFTING TAPER

220' BUFFER SPACE

50' TYP

10' TYP

STH 22

127+00 128+00 129+00 130+00 131+00 132+00 133+00

+25

TW TY MR4 MR4

xxxx xxxx xxxx

2

NOTES

** SEE SDD "CONCRETE BARRIER TEMPORARY PRECAST" FOR ADDITIONAL INFORMATION

SEE STRUCTURAL PLANS FOR ADDITIONAL INFORMATION

SEE TEMPORARY DIVERSION DETAIL FOR ADDITIONAL INFORMATION

PROPOSED WORK

INSTALL LT HALF OF THE TEMPORARY CULVERT PIPE AND COMPLETE THE TEMPORARY BYPASS.

REMOVE LT HALF OF BOX CULVERT C-58-28 AND CONSTRUCT LT HALF OF BOX CULVERT C-58-31. REPAVE WITH ASPHALTIC SURFACE PRIOR TO OPENING TO TRAFFIC.

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- xxxx. MR4 — MARKING REMOVAL LINE 4-INCH
- xxxx. MR8 — MARKING REMOVAL LINE 8-INCH
- TY — TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- TW — TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- ASPHALTIC SURFACE PLACED IN PREVIOUS STAGE
- TEMPORARY SHORING
- FLASHING ARROW BOARD

N

**END SECTION REQUIRED

220' BUFFER SPACE

133+00

TW

9'

+85

8:1 TAPER

134+00

135+00

STA 135+70

136+00

STA 136+70

137+00

+50

138+00

8:1 TAPER

+65

220' BUFFER SPACE

139+00

MR4

50' TYP

+03

STH 22

10'

TY

TW

WO5-52L
12"X36"

MURRAY CREEK

WO5-52R
12"X36"

MR4

RUSCH RD

GV

MH

GUY

FOOTBRIDGE

POST

SIGN

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE MC2 - MURRAY CREEK BOX CULVERT	SHEET 108	E

2

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- xxxx (MR4) MARKING REMOVAL LINE 4-INCH
- xxxx (MR8) MARKING REMOVAL LINE 8-INCH
- (TY) TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- (TW) TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- ASPHALTIC SURFACE PLACED IN PREVIOUS STAGE
- TEMPORARY SHORING
- FLASHING ARROW BOARD

N

10' TYP

220' BUFFER SPACE

855' SHIFTING TAPER

50' TYP

139+00 140+00 141+00 142+00 143+00 144+00 145+00

STH 22

MR4 MR4 TW TY MR8

TRAFFIC CONTROL COVERING TYPE II SIGNS
(REMAIN COVERED FROM PREVIOUS STAGE)

Madison Way ONLY

UNCOVER EXISTING SIGN FROM PREVIOUS STAGE

SIGN SIGN SIGN

GUY GUY POST WV WV WV MH CANOPY

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE MC2 - MURRAY CREEK BOX CULVERT	SHEET 109	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\025201-TC - S2.DWG
LAYOUT NAME - 050232-PN

PLOT DATE : 10/11/2018 2:07 PM PLOT BY : DREW NELSON PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- xxxx. (MR4) MARKING REMOVAL LINE 4-INCH
- xxxx. (MR8) MARKING REMOVAL LINE 8-INCH
- (TY) TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- (TW) TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- ASPHALTIC SURFACE PLACED IN PREVIOUS STAGE
- TEMPORARY SHORING
- FLASHING ARROW BOARD

N

SIGN

POST

W

WO1-6
48"X24"

855' SHIFTING TAPER

90' LANE TAPER

50' TYP

10' TYP

STH 22

145+00

146+00

147+00

148+00

149+00

150+00

151+00

+28

+45

TW

MR4

TY

COUNTY
BE
J13-1
24"X45"

MADISON WAY

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE MC2 - MURRAY CREEK BOX CULVERT	SHEET 110	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\025201-TC - S2.DWG
LAYOUT NAME - 050233-PN

PLOT DATE : 10/11/2018 2:07 PM PLOT BY : DREW NELSON PLOT NAME : PLOT SCALE : 1 IN:40 FT

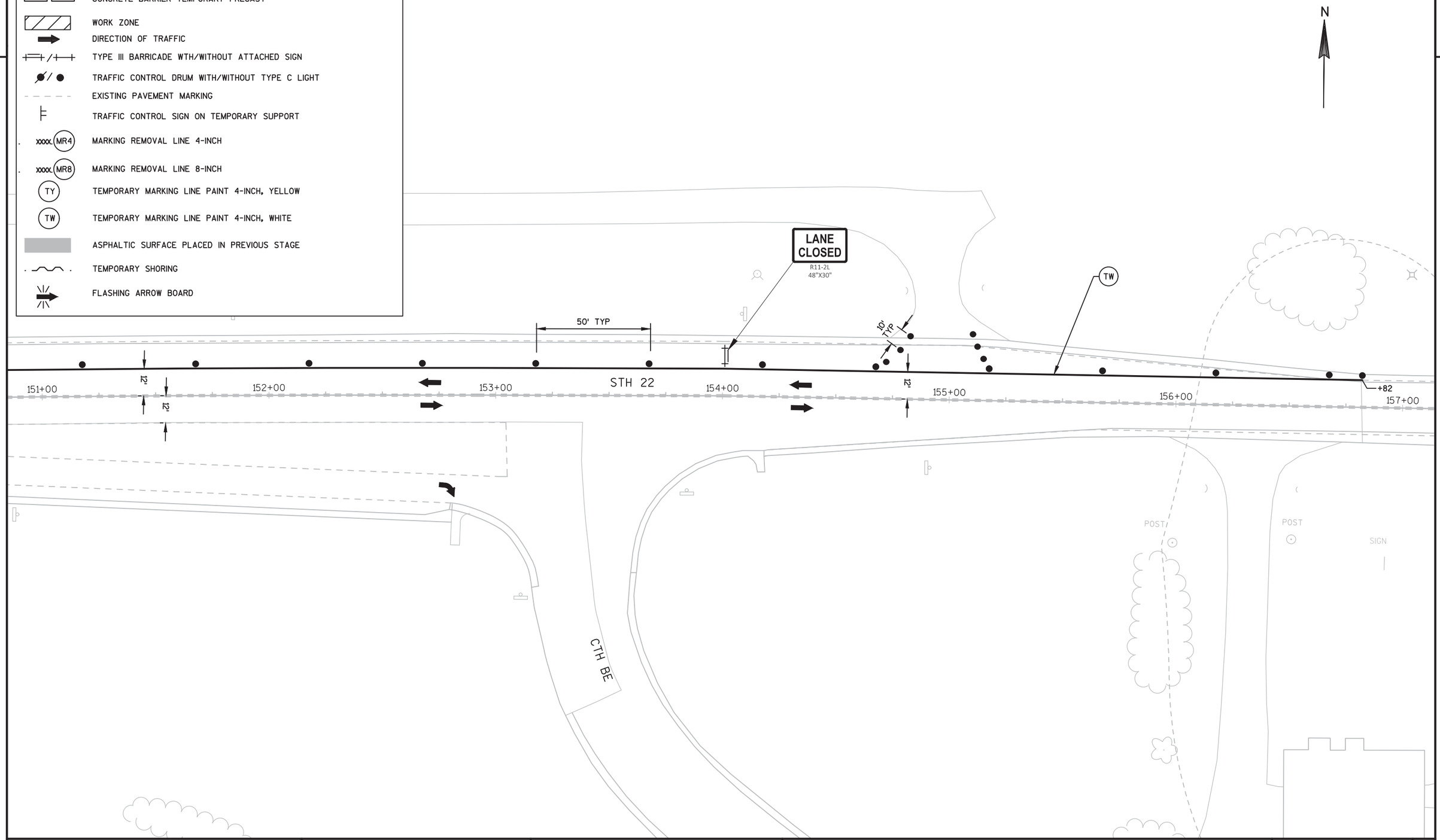
WISDOT/CADDS SHEET 42

2

2

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- xxxx (MR4) MARKING REMOVAL LINE 4-INCH
- xxxx (MR8) MARKING REMOVAL LINE 8-INCH
- (TY) TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- (TW) TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- ASPHALTIC SURFACE PLACED IN PREVIOUS STAGE
- TEMPORARY SHORING
- FLASHING ARROW BOARD



PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE MC2 - MURRAY CREEK BOX CULVERT	SHEET 111	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\025201-TC - S2.DWG
LAYOUT NAME - 050233-PN

PLOT DATE : 10/11/2018 2:07 PM PLOT BY : DREW NELSON PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- xxxx. MR4 — MARKING REMOVAL LINE 4-INCH
- xxxx. MR8 — MARKING REMOVAL LINE 8-INCH
- TY — TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- TW — TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- ASPHALTIC SURFACE PLACED IN PREVIOUS STAGE
- TEMPORARY SHORING
- FLASHING ARROW BOARD

N

POST

ASH CIR

POST

MH

157+00

158+00

STH 22

159+00

160+00

SIGN

SIGN

POST

ASH CT

END
ROAD WORK
C20-2A
48"X24"

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE MC2 - MURRAY CREEK BOX CULVERT	SHEET 112	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\025201-TC - S2.DWG
LAYOUT NAME - 050233-PN

PLOT DATE : 10/11/2018 2:07 PM PLOT BY : DREW NELSON PLOT NAME : PLOT SCALE : 1 IN:40 FT

NOTES

TEMPORARY MARKING, TRAFFIC CONTROL SIGNS, TRAFFIC CONTROL DRUMS AND ARROW BOARDS ARE SHOWN ON THE PLANS, SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY" FOR ADDITIONAL INFORMATION

TRAFFIC WILL BE MAINTAINED WITH THE USE OF LANE CLOSURES AND WILL BE SHIFTED ON TO THE PAVED SHOULDER

DURING SHOULDER AND DITCH RESTORATION, THE SHOULDER WILL BE CLOSED DURING NON WORKING HOURS. SEE SDD "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY"

COMPLETE ALL BOX CULVERT WORK PRIOR TO THE HMA OVERLAY

REMOVE CONFLICTING TEMPORARY MARKING COMPLETED IN PREVIOUS STAGE

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- xxxx. MR4 — MARKING REMOVAL LINE 4-INCH
- xxxx. MR8 — MARKING REMOVAL LINE 8-INCH
- TY — TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- TW — TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- ASPHALTIC SURFACE PLACED IN PREVIOUS STAGE
- TEMPORARY SHORING
- FLASHING ARROW BOARD

109+00 110+00 111+00 112+00 113+00 114+00 115+00

STH 22

+95

ROAD WORK AHEAD W20-1-A

RIGHT LANE CLOSED AHEAD W20-5-A

W04-2R

1000' 1000' 500'

SIGN FLAG A/C M W

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE MC3 - MURRAY CREEK BOX CULVERT	SHEET 113	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\025301-TC - S3.DWG
LAYOUT NAME - 050228-PN

PLOT DATE : 10/11/2018 2:10 PM PLOT BY : DREW NELSON PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- xxxx. (MR4) MARKING REMOVAL LINE 4-INCH
- xxxx. (MR8) MARKING REMOVAL LINE 8-INCH
- (TY) TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- (TW) TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- ASPHALTIC SURFACE PLACED IN PREVIOUS STAGE
- TEMPORARY SHORING
- FLASHING ARROW BOARD

N

A/C

SIGN

TW

STH 22

115+00 116+00 117+00 118+00 119+00 120+00 121+00

50' TYP

TW

540' TAPER

180' LANE TAPER

W

SIGN

POST

FLAG

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE MC3 - MURRAY CREEK BOX CULVERT	SHEET 114	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\025301-TC - S3.DWG
LAYOUT NAME - 050228-PN
PLOT DATE : 10/11/2018 2:10 PM PLOT BY : DREW NELSON PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- xxxx MR4 — MARKING REMOVAL LINE 4-INCH
- xxxx MR8 — MARKING REMOVAL LINE 8-INCH
- TY — TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- TW — TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- ASPHALTIC SURFACE PLACED IN PREVIOUS STAGE
- TEMPORARY SHORING
- FLASHING ARROW BOARD

N

STH 22

121+00 122+00 123+00 124+00 125+00 126+00 127+00

+15 +90

ONE WAY
R6-2R
24"X30"

LANE CLOSED
R11-2L
48"X30"

ONE WAY
R6-2R
24"X30"

50' TYP

10' TYP

180' LANE TAPER

945' SHIFTING TAPER

TY TW

POST SIGN FLAG W

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE MC3 - MURRAY CREEK BOX CULVERT	SHEET 115	E

2

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- xxxx. (MR4) MARKING REMOVAL LINE 4-INCH
- xxxx. (MR8) MARKING REMOVAL LINE 8-INCH
- (TY) TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- (TW) TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- ASPHALTIC SURFACE PLACED IN PREVIOUS STAGE
- TEMPORARY SHORING
- FLASHING ARROW BOARD

N

MR4 SIGN

TW

TY

GUY

GV

MH

WV

POST

POST

POST

SEPC

POST

FLAG

SIGN

GUY

R3-1
24"X24"

+63

+60

10'

10'

127+00

128+00

129+00

130+00

131+00

132+00

133+00

50' TYP

10' TYP

STH 22

10' TYP

945' SHIFTING TAPER

220' BUFFER SPACE

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE MC3 - MURRAY CREEK BOX CULVERT	SHEET 116	E

NOTES

** SEE SDD "CONCRETE BARRIER TEMPORARY PRECAST" FOR ADDITIONAL INFORMATION.

SEE STRUCTURAL PLANS FOR ADDITIONAL INFORMATION.

* PLACE AT THE INTERSECTION OF RUSCH RD AND RICHMOND ST

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- xxxx. MR4 — MARKING REMOVAL LINE 4-INCH
- xxxx. MR8 — MARKING REMOVAL LINE 8-INCH
- TY — TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- TW — TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- ASPHALTIC SURFACE PLACED IN PREVIOUS STAGE
- TEMPORARY SHORING
- FLASHING ARROW BOARD

N

R3-2
24"X24"

WO5-52R
12"X36"

220' BUFFER SPACE

220' BUFFER SPACE

STH 22

10'

10'

11'

133+00 134+00 135+00 136+00 137+00 138+00 139+00

+00 +84 +50 +64

8:1 TAPER

8:1 TAPER

**END SECTION REQUIRED

**END SECTION REQUIRED

ROAD CLOSED
R11-2
48"X30"

500'

ROAD CLOSED 500 FT
W20-3-D

*

ROAD CLOSED AHEAD
W20-3-A

RUSCH RD

MURRAY CREEK

WO5-52L
12"X36"

GUY GV MH POST SIGN

PROPOSED WORK

REMOVE RT HALF OF BOX CULVERT C-58-28, CONSTRUCT RT HALF OF BOX CULVERT C-58-31.

REMOVE RT HALF OF TEMPORARY CULVERT PIPE.

REPAVE WITH ASPHALTIC SURFACE PRIOR TO OPENING TO TRAFFIC.

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE MC3 - MURRAY CREEK BOX CULVERT	SHEET 117	E

2

2

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- XXXX MR4 — MARKING REMOVAL LINE 4-INCH
- XXXX MR8 — MARKING REMOVAL LINE 8-INCH
- TY — TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- TW — TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- ASPHALTIC SURFACE PLACED IN PREVIOUS STAGE
- TEMPORARY SHORING
- FLASHING ARROW BOARD

N

220' BUFFER SPACE

945 SHIFTING TAPER

MR4

TW

TY

50' TYP

10'

10'

+90

139+00

140+00

141+00

142+00

143+00

144+00

145+00

TRAFFIC CONTROL COVERING SIGNS TYPE II

STH 22

SIGN

GUY

WV

POST

MH

CANOPY

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE MC3 - MURRAY CREEK BOX CULVERT	SHEET 118	E

2

2

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- xxxx (MR4) MARKING REMOVAL LINE 4-INCH
- xxxx (MR8) MARKING REMOVAL LINE 8-INCH
- (TY) TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- (TW) TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- ASPHALTIC SURFACE PLACED IN PREVIOUS STAGE
- TEMPORARY SHORING
- FLASHING ARROW BOARD

N

SIGN

SIGN

POST

POST

POST

R3-2
24"X24"

TW

TY

50' TYP

+96

STH 22

MR4

10'

145+00

146+00

147+00

148+00

149+00

150+00

+35

151+00

+00

+42

+79

+89

12.5:1 TAPER

MR4

MR4

TW

ROAD CLOSED
R11-2
48"X30"

COUNTY BE
J13-1
24"X45"

50' TYP

R3-1
24"X24"

500'

ROAD CLOSED 500 FT
W20-3-D

ROAD CLOSED AHEAD
W20-3-A

MADISON WAY

SIGN

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE MC3 - MURRAY CREEK BOX CULVERT	SHEET 119	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\025301-TC - S3.DWG
LAYOUT NAME - 050233-PN

PLOT DATE : 10/11/2018 2:11 PM PLOT BY : DREW NELSON PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- xxxx. MR4 — MARKING REMOVAL LINE 4-INCH
- xxxx. MR8 — MARKING REMOVAL LINE 8-INCH
- TY — TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- TW — TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- ASPHALTIC SURFACE PLACED IN PREVIOUS STAGE
- TEMPORARY SHORING
- FLASHING ARROW BOARD

N

LANE CLOSED
R11-2L
48"X30"

50' TYP

12'

TW

STH 22

151+00 152+00 153+00 154+00 155+00 156+00 157+00

+27

+70

CTH BE

POST

POST

SIGN

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE MC3 - MURRAY CREEK BOX CULVERT	SHEET 120	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\025301-TC - S3.DWG
LAYOUT NAME - 050233-PN

PLOT DATE : 10/11/2018 2:11 PM PLOT BY : DREW NELSON PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SUPPORT
- xxxx. MR4 — MARKING REMOVAL LINE 4-INCH
- xxxx. MR8 — MARKING REMOVAL LINE 8-INCH
- TY — TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- TW — TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- ASPHALTIC SURFACE PLACED IN PREVIOUS STAGE
- TEMPORARY SHORING
- FLASHING ARROW BOARD

N

POST

ASH CIR

POST

MH

157+00

158+00

STH 22

159+00

160+00

SIGN

SIGN

POST

ASH CT

END
ROAD WORK
C20-2A
48"X24"

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE MC3 - MURRAY CREEK BOX CULVERT	SHEET 121	E

2

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SIGN SUPPORT
- xxxx. (MR4) MARKING REMOVAL LINE 4-INCH
- xxxx. (MR8) MARKING REMOVAL LINE 8-INCH
- (TY) TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- (TW) TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- ASPHALTIC SURFACE PLACED IN PREVIOUS STAGE
- FLASHING ARROW BOARD

NOTES

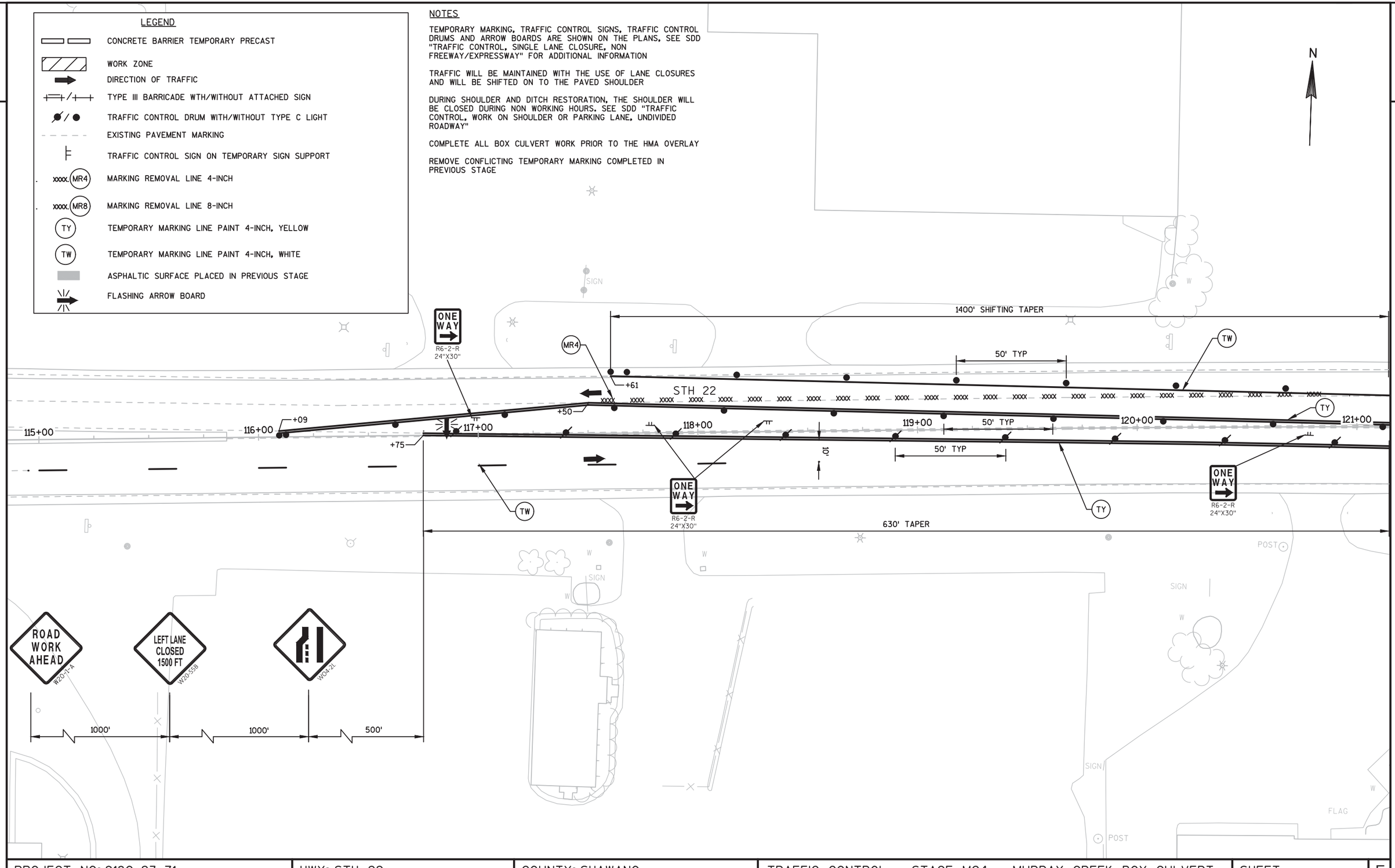
TEMPORARY MARKING, TRAFFIC CONTROL SIGNS, TRAFFIC CONTROL DRUMS AND ARROW BOARDS ARE SHOWN ON THE PLANS, SEE SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY" FOR ADDITIONAL INFORMATION

TRAFFIC WILL BE MAINTAINED WITH THE USE OF LANE CLOSURES AND WILL BE SHIFTED ON TO THE PAVED SHOULDER

DURING SHOULDER AND DITCH RESTORATION, THE SHOULDER WILL BE CLOSED DURING NON WORKING HOURS. SEE SDD "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY"

COMPLETE ALL BOX CULVERT WORK PRIOR TO THE HMA OVERLAY

REMOVE CONFLICTING TEMPORARY MARKING COMPLETED IN PREVIOUS STAGE



PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE MC4 - MURRAY CREEK BOX CULVERT	SHEET 122	E

2

2

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SIGN SUPPORT
- XXXX. MR4 — MARKING REMOVAL LINE 4-INCH
- XXXX. MR8 — MARKING REMOVAL LINE 8-INCH
- TY — TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- TW — TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- ASPHALTIC SURFACE PLACED IN PREVIOUS STAGE
- FLASHING ARROW BOARD

N

1400' SHIFTING TAPER

10' TYP

50' TYP

TW

STH 22

121+00 122+00 123+00 124+00 125+00 126+00 127+00

12'

ONE WAY
R6-2-R
24"X30"

630' TAPER

TY

SIGN

POST

FLAG

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE MC4 - MURRAY CREEK BOX CULVERT	SHEET 123	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\025401-TC - S4.DWG
LAYOUT NAME - 050229-PN
PLOT DATE : 10/11/2018 2:14 PM PLOT BY : DREW NELSON PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SIGN SUPPORT
- xxxx. (MR4) MARKING REMOVAL LINE 4-INCH
- xxxx. (MR8) MARKING REMOVAL LINE 8-INCH
- (TY) TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- (TW) TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- ASPHALTIC SURFACE PLACED IN PREVIOUS STAGE
- FLASHING ARROW BOARD

N

1400' SHIFTING TAPER

220' BUFFER SPACE

50' TYP

STH 22

127+00 128+00 129+00 130+00 131+00 132+00 133+00

12'

+63

+25

+60

10'

10'

TW

TY

MH

WV

GUY

GV

SIGN

POST

POST

POST

SEPC

POST

FLAG

SIGN

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE MC4 - MURRAY CREEK BOX CULVERT	SHEET 124	E

2

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SIGN SUPPORT
- xxxx. (MR4) MARKING REMOVAL LINE 4-INCH
- xxxx. (MR8) MARKING REMOVAL LINE 8-INCH
- (TY) TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- (TW) TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- ASPHALTIC SURFACE PLACED IN PREVIOUS STAGE
- FLASHING ARROW BOARD

N

BRIDGE OUT
R11-2-B
48"X30"

BRIDGE OUT
R11-2-B
48"X30"

220' BUFFER SPACE

220' BUFFER SPACE

50' TYP

10' TYP

10' TYP

133+00 134+00 135+00 STH 22 136+00 137+00 138+00 139+00

9'

10'

10'

TW

TY

TW

MH

GUY

POST

SIGN

MURRAY CREEK

RUSCH RD

PROPOSED WORK
REMOVE LT HALF OF TEMPORARY CULVERT PIPE. REPAVE WITH ASPHATLIC SURFACE PRIOR TO OPENING TRAFFIC.

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE MC4 - MURRAY CREEK BOX CULVERT	SHEET 125	E

2

2

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SIGN SUPPORT
- xxxx (MR4) MARKING REMOVAL LINE 4-INCH
- xxxx (MR8) MARKING REMOVAL LINE 8-INCH
- (TY) TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- (TW) TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- ASPHALTIC SURFACE PLACED IN PREVIOUS STAGE
- FLASHING ARROW BOARD

N

220' BUFFER SPACE

855' SHIFTING TAPER

10' TYP

50' TYP

139+00

140+00

141+00

142+00

143+00

144+00

145+00

+90

+68

10'

10'

STH 22

MR8

TW

TY

TRAFFIC CONTROL COVERING SIGNS TYPE II

Madison Way ONLY

UNCOVER EXISTING SIGN FROM PREVIOUS STAGE

SIGN

SIGN

SIGN

POST

GUY

GUY

WV

WV

MPH

CANOPY

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE MC4 - MURRAY CREEK BOX CULVERT	SHEET 126	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\025401-TC - S4.DWG
LAYOUT NAME - 050232-PN

PLOT DATE : 10/11/2018 2:14 PM PLOT BY : DREW NELSON PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SIGN SUPPORT
- xxxx. (MR4) MARKING REMOVAL LINE 4-INCH
- xxxx. (MR8) MARKING REMOVAL LINE 8-INCH
- (TY) TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- (TW) TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- ASPHALTIC SURFACE PLACED IN PREVIOUS STAGE
- FLASHING ARROW BOARD

N

SIGN

POST

MH

W

WO1-6
48"X24"

855' SHIFTING TAPER

90' LANE TAPER

10' TYP

50' TYP

145+00

146+00

147+00

148+00

STH 22

149+00

150+00

151+00

+35

+45

+70

10'

12'

TW

TY

MR8

F

COUNTY
BE
J13-1
24"X45"

MADISON WAY

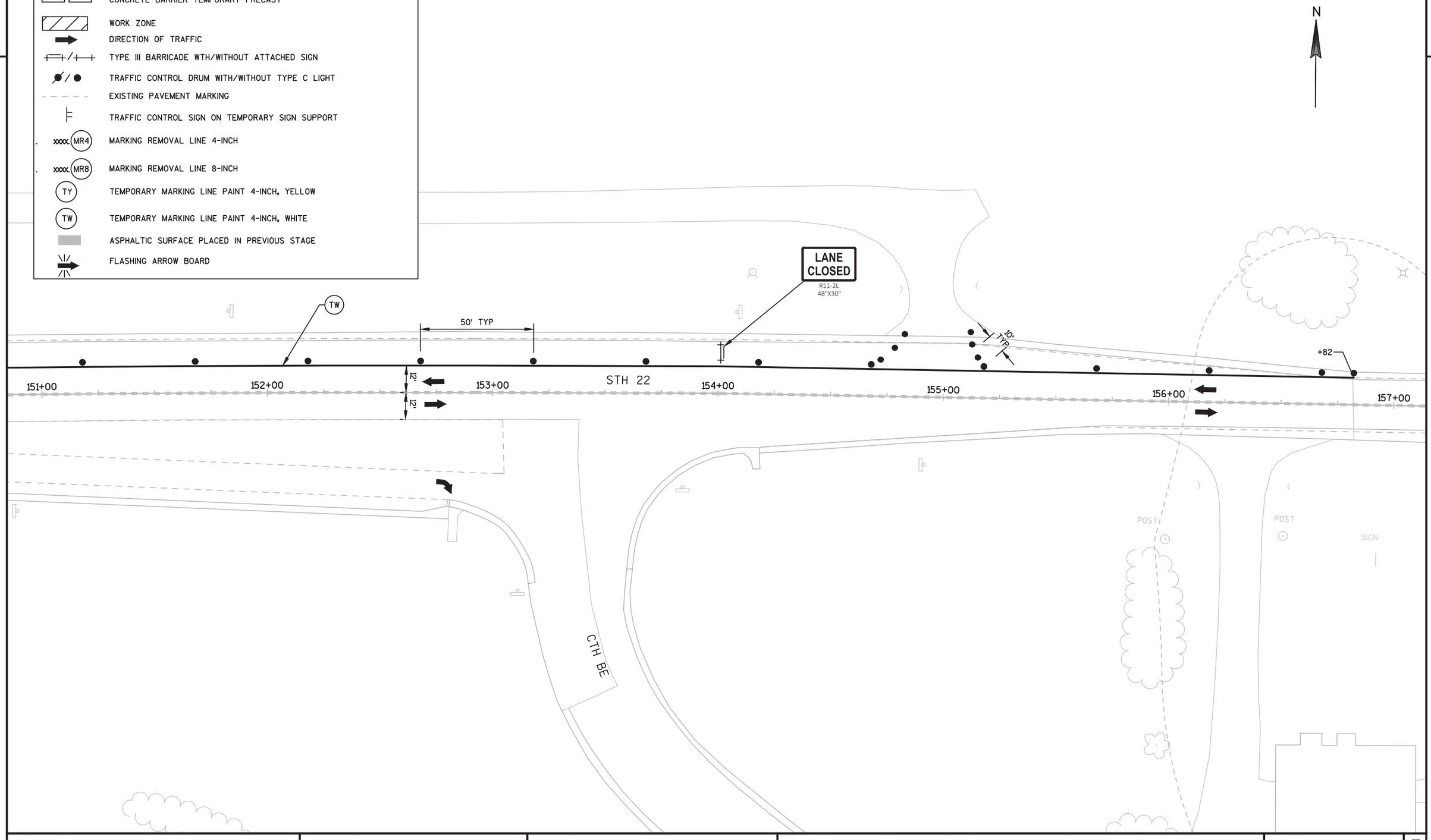
PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE MC4 - MURRAY CREEK BOX CULVERT	SHEET 127	E

2

2

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SIGN SUPPORT
- xxxx MR4 — MARKING REMOVAL LINE 4-INCH
- xxxx MR8 — MARKING REMOVAL LINE 8-INCH
- TY — TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- TW — TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- ASPHALTIC SURFACE PLACED IN PREVIOUS STAGE
- FLASHING ARROW BOARD



PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	TRAFFIC CONTROL - STAGE MC4 - MURRAY CREEK BOX CULVERT	SHEET 128	E

2

2

LEGEND

- CONCRETE BARRIER TEMPORARY PRECAST
- WORK ZONE
- DIRECTION OF TRAFFIC
- TYPE III BARRICADE WTH/WITHOUT ATTACHED SIGN
- TRAFFIC CONTROL DRUM WITH/WITHOUT TYPE C LIGHT
- EXISTING PAVEMENT MARKING
- TRAFFIC CONTROL SIGN ON TEMPORARY SIGN SUPPORT
- xxxx MR4 — MARKING REMOVAL LINE 4-INCH
- xxxx MR8 — MARKING REMOVAL LINE 8-INCH
- TY — TEMPORARY MARKING LINE PAINT 4-INCH, YELLOW
- TW — TEMPORARY MARKING LINE PAINT 4-INCH, WHITE
- ASPHALTIC SURFACE PLACED IN PREVIOUS STAGE
- FLASHING ARROW BOARD

N

POST

POST

MH

ASH CIR

157+00

158+00

STH 22

159+00

160+00

SIGN

SIGN

POST

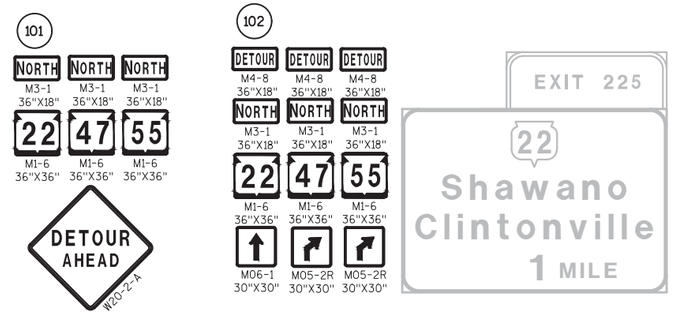
ASH CT

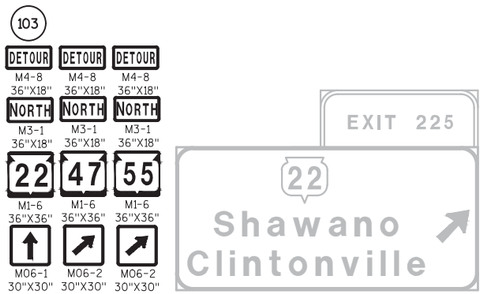
END
ROAD WORK
C20-2A
48"X24"

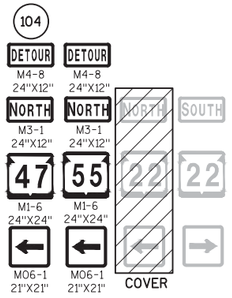
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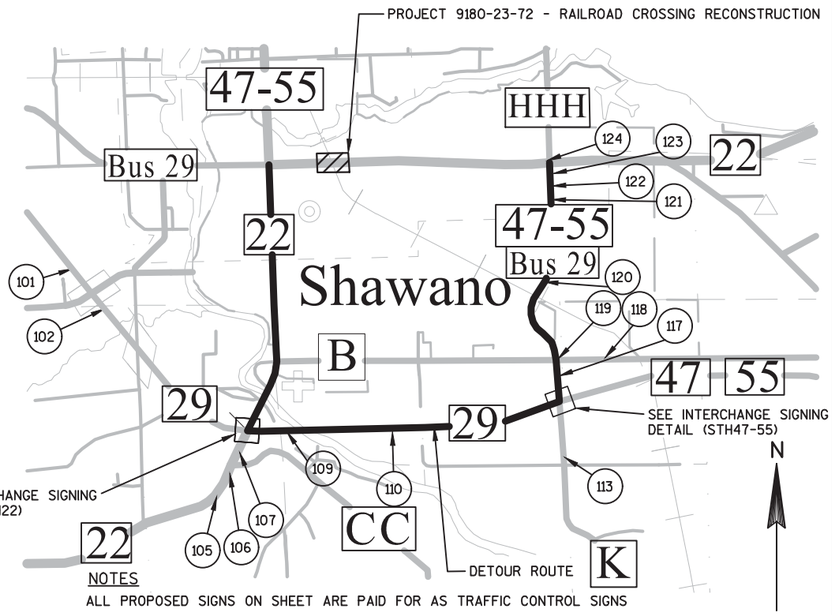
FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\025401-TC - S4.DWG
LAYOUT NAME - 050233-PN

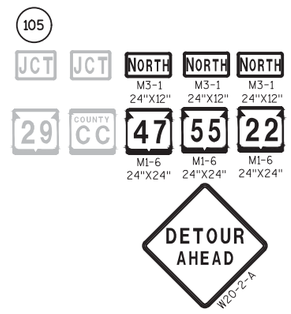
PLOT DATE : 10/11/2018 2:15 PM PLOT BY : DREW NELSON PLOT NAME : PLOT SCALE : 1 IN:40 FT

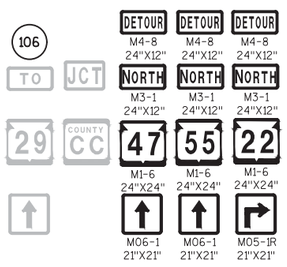


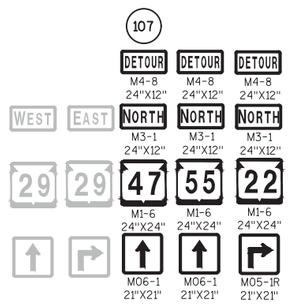


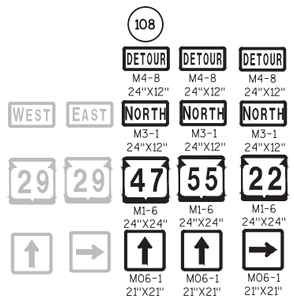


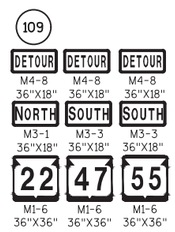












NOTES

ALL PROPOSED SIGNS ON SHEET ARE PAID FOR AS TRAFFIC CONTROL SIGNS

PROPOSED DETOUR SIGNS ARE TO BE USED TO COVER THE EXISTING SIGNS WHERE FEASIBLE

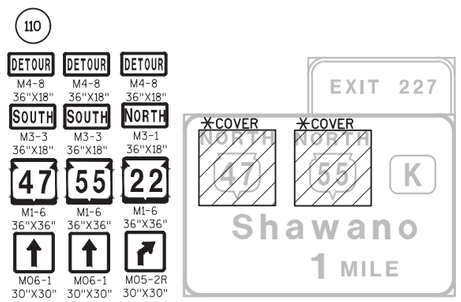
WHERE SPACE IS LIMITED, SIGNS MAY BE STACKED

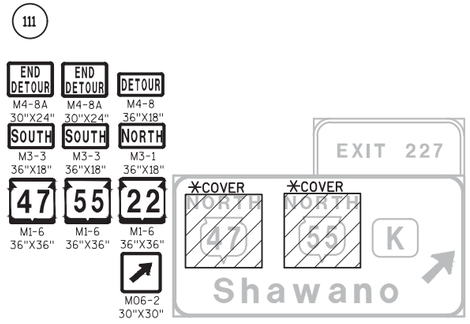
STH 47/55 SIGNS MAY BE STACKED TO LIMIT ASSEMBLY SIZE

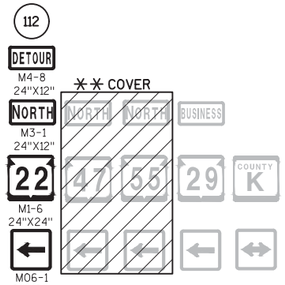
MOUNT ALL DETOUR SIGNS ON POSTS UNLESS OTHERWISE NOTED OR USED TO COVER EXISTING SIGNS

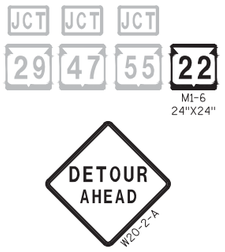
✳ PAID AS TRAFFIC CONTROL COVERING SIGNS TYPE I

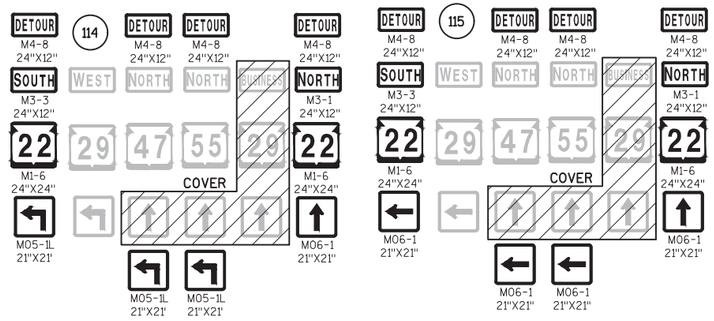
✳✳ PAID AS TRAFFIC CONTROL COVERING SIGNS TYPE II

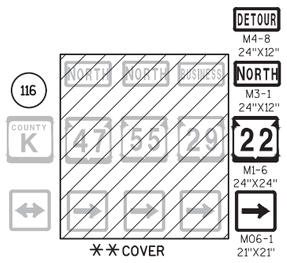


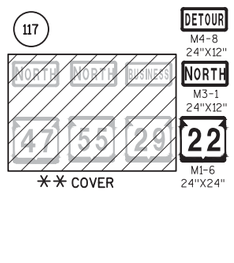


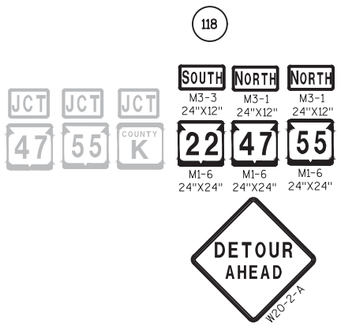


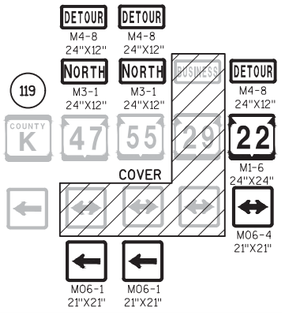


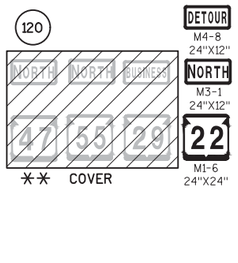








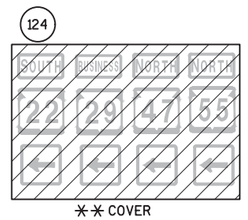






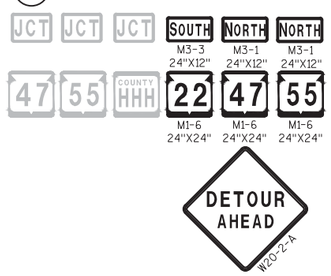




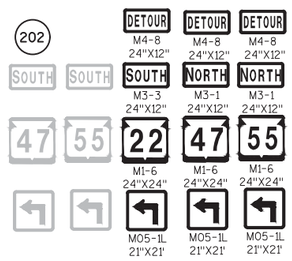


PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	DETOUR	SHEET 130	E

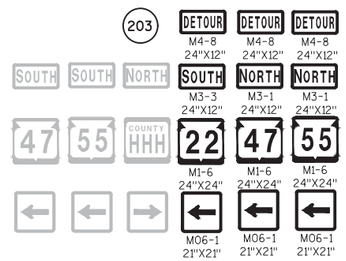
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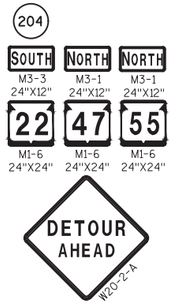
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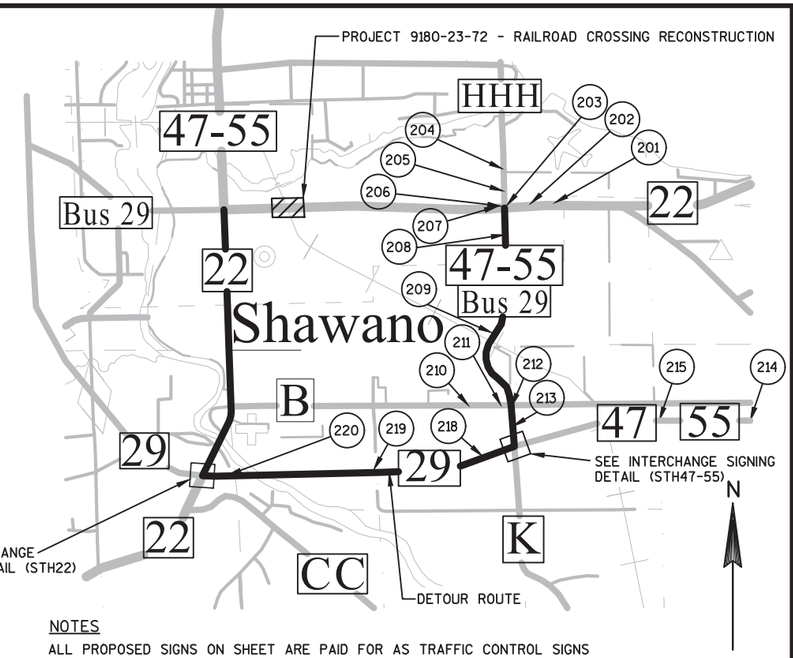


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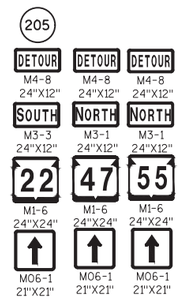


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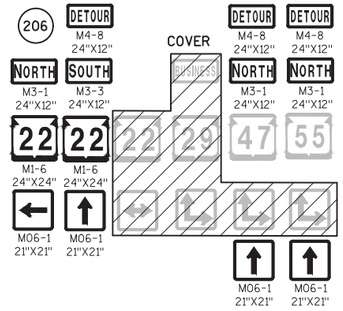




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206

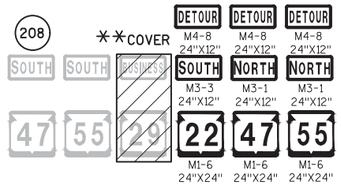


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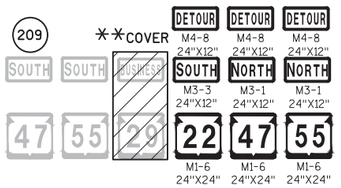


(MOUNT SIGN ON TRAFFIC CONTROL BARRICADE TYPE III)

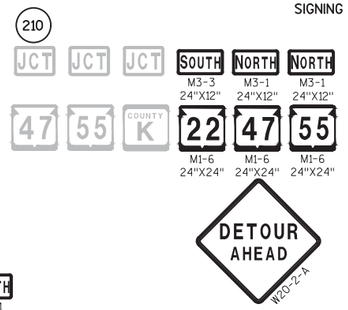
208



209



210



NOTES

ALL PROPOSED SIGNS ON SHEET ARE PAID FOR AS TRAFFIC CONTROL SIGNS

PROPOSED DETOUR SIGNS ARE TO BE USED TO COVER THE EXISTING SIGNS WHERE FEASIBLE

WHERE SPACE IS LIMITED, SIGNS MAY BE STAGGERED

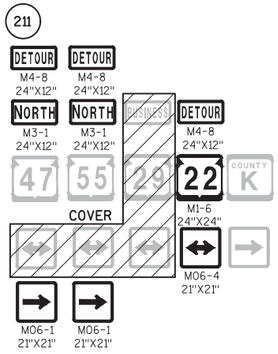
STH 47/55 SIGNS MAY BE STACKED TO LIMIT ASSEMBLY SIZE

MOUNT ALL DETOUR SIGNS ON POSTS UNLESS OTHERWISE NOTED OR USED TO COVER EXISTING SIGNS

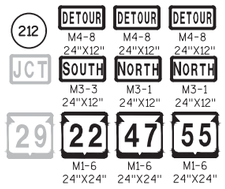
*PAID AS TRAFFIC CONTROL COVERING SIGNS TYPE I

**PAID AS TRAFFIC CONTROL COVERING SIGNS TYPE II

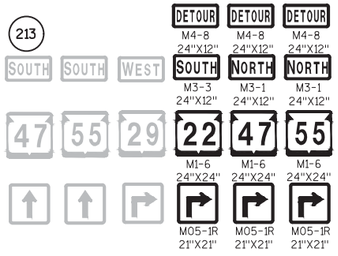
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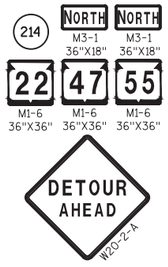
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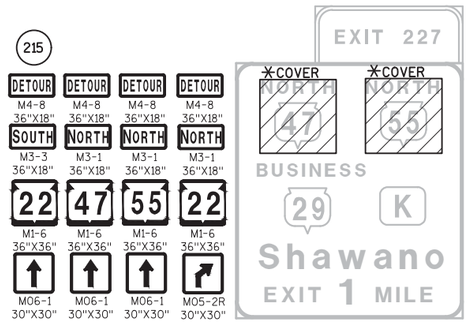
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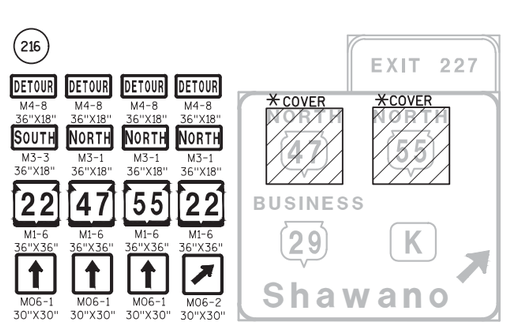
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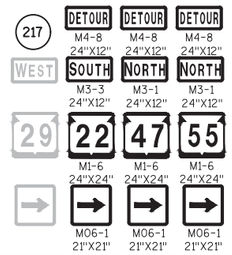
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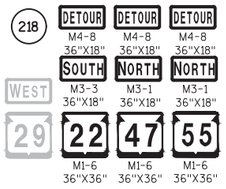
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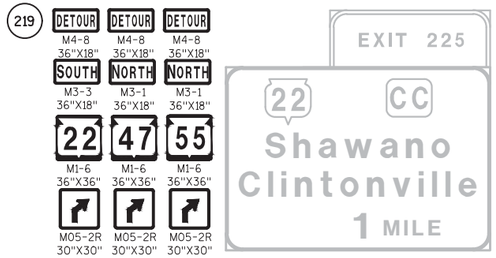
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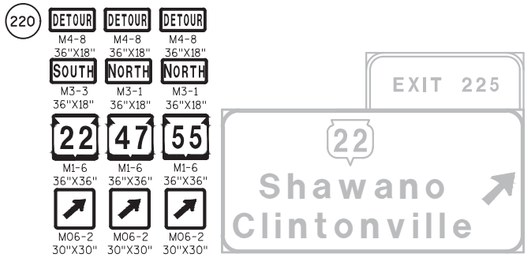
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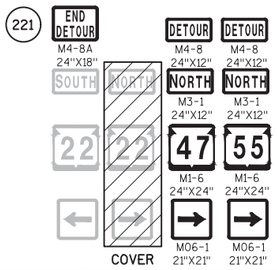
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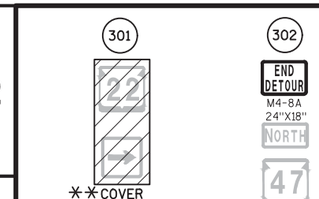
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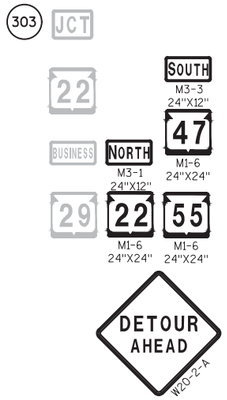
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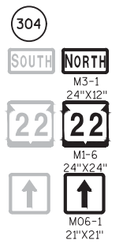


PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	DETOUR	SHEET 131	E

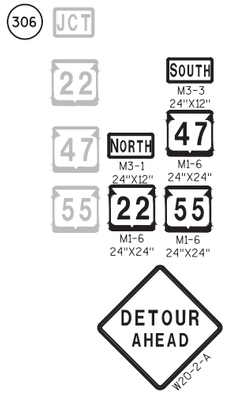


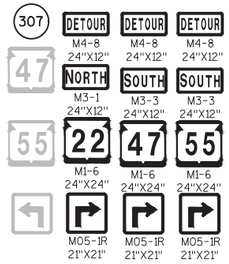






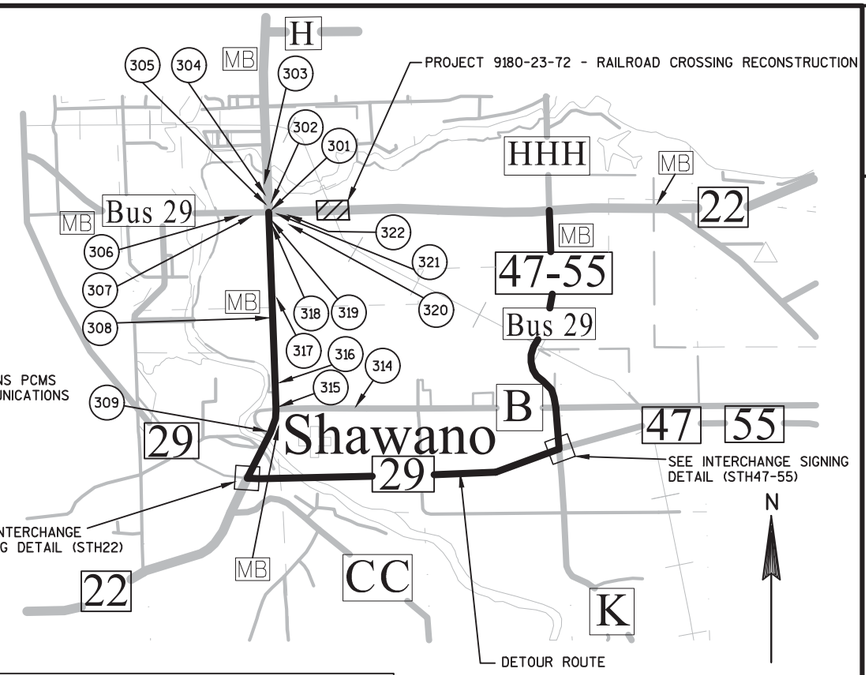


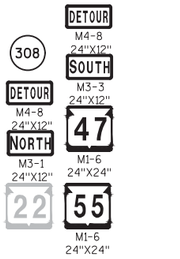




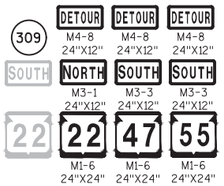
LEGEND

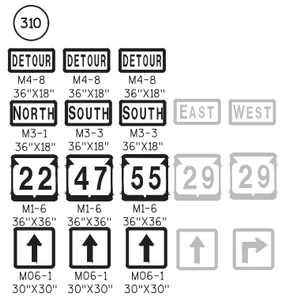
MB TRAFFIC CONTROL SIGNS PCMS WITH CELLULAR COMMUNICATIONS

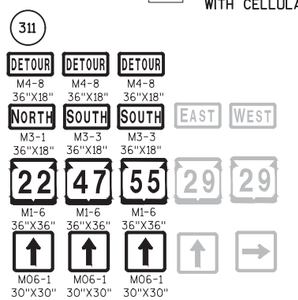


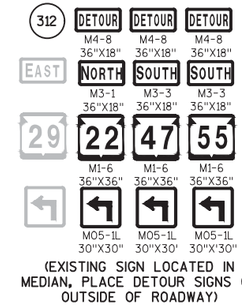


(EXISTING SIGN MOUNTED ON LIGHT POLE, MOUNT DETOUR SOUTH 47/55 SIGNS ON SEPARATE POST 50' SOUTH OF LIGHT POLE)

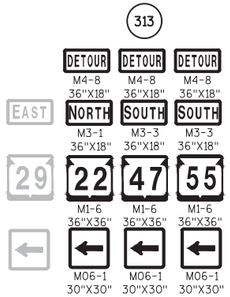


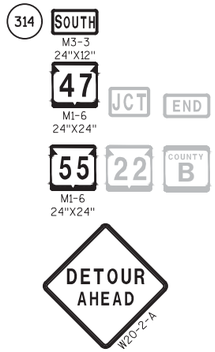


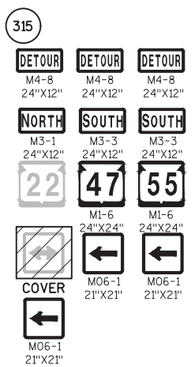


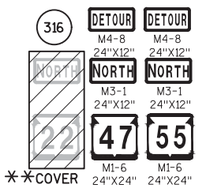


(EXISTING SIGN LOCATED IN MEDIAN, PLACE DETOUR SIGNS ON OUTSIDE OF ROADWAY)

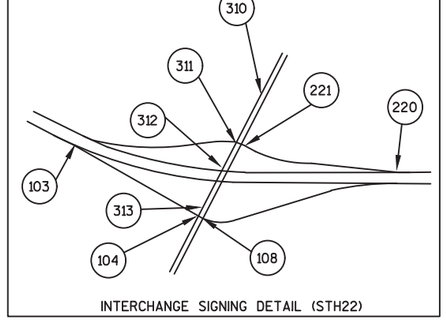




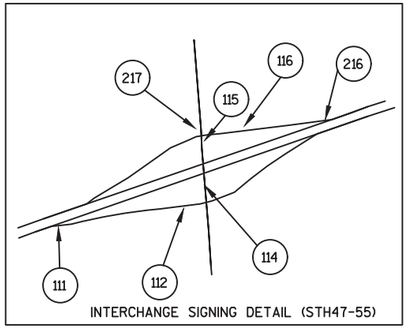




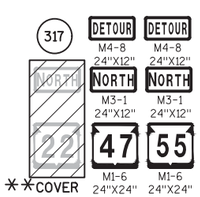
(EXISTING SIGN MOUNTED ON LIGHT POLE)

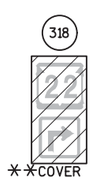


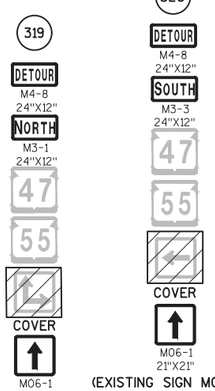
INTERCHANGE SIGNING DETAIL (STH22)



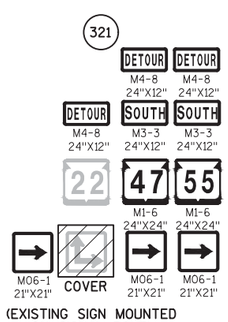
INTERCHANGE SIGNING DETAIL (STH47-55)







(EXISTING SIGN MOUNTED ON SIGNAL POLE)



(EXISTING SIGN MOUNTED ON SIGNAL POLE)



(MOUNT SIGN ON TRAFFIC CONTROL BARRICADE TYPE III)

NOTES

ALL PROPOSED SIGNS ON SHEET ARE PAID FOR AS TRAFFIC CONTROL SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING MESSAGE BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE BOARD FOR A MINIMUM OF 1000 FEET IN FRONT OF THE MESSAGE BOARD. PLACE MESSAGE BOARDS AS FAR AWAY FROM LIVE TRAFFIC LANES AS POSSIBLE WITHOUT HAMPERING VISIBILITY.

(1) PLACE TRAFFIC CONTROL SIGNS PCMS AND DISPLAY THE MESSAGE 7 DAYS PRIOR TO THE EXPECTED START OF THE PROPOSED WORK. ADJUST THE MESSAGE DATE ACCORDINGLY.

PROPOSED DETOUR SIGNS ARE TO BE USED TO COVER THE EXISTING SIGNS WHERE FEASIBLE

WHERE SPACE IS LIMITED, SIGNS MAY BE STAGGERED

STH 47/55 SIGNS MAY BE STACKED TO LIMIT ASSEMBLY SIZE

MOUNT ALL DETOUR SIGNS ON POSTS UNLESS OTHERWISE NOTED OR USED TO COVER EXISTING SIGNS

* PAID AS TRAFFIC CONTROL COVERING SIGNS TYPE I

** PAID AS TRAFFIC CONTROL COVERING SIGNS TYPE II

TRAFFIC CONTROL SIGNS PCMS MESSAGES

	(1) PRIOR TO CONSTRUCTION		PRIOR TO DETOUR	
PCMS SIGN LOCATION	PHASE 1 (2 SEC)	PHASE 2 (2 SEC)	PHASE 1 (2 SEC)	PHASE 2 (2 SEC)
HWY 22 NB 0.2 MILES NORTH OF STH 29	HWY 22 ROADWORK BEGINS	STARTING DATE	HWY 22 DETOUR BEGINS	STARTING DATE
HWY 47/55 SB 1 MILE NORTH OF MAIN ST	47/55 ROADWORK BEGINS	STARTING DATE	47/55 DETOUR BEGINS	STARTING DATE
HWY 22 SB 0.1 MILES WEST OF CTH BE	HWY 22 ROADWORK BEGINS	STARTING DATE	HWY 22 DETOUR BEGINS	STARTING DATE
HWY 22 SB LIEG AVE INTERSECTION	HWY 22 ROADWORK BEGINS	STARTING DATE	--	--
CTH MMM EB 0.5 MILES WEST OF MAIN STREET	HWY 22 ROADWORK BEGINS	STARTING DATE	HWY 22 DETOUR BEGINS	STARTING DATE
HWY 47/55 NB STH 22 INTERSECTION	47/55 ROADWORK BEGINS	STARTING DATE	HWY 47/55 DETOUR BEGINS	STARTING DATE

PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	DETOUR & PCMS MESSAGES	SHEET 132	E

					9180-23-71	9180-23-72
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0002	201.0105	Clearing	STA	4.000	4.000	
0004	201.0205	Grubbing	STA	4.000	4.000	
0006	203.0100	Removing Small Pipe Culverts	EACH	2.000	1.000	1.000
0008	203.0200	Removing Old Structure (station) 01. Station 135+72	LS	1.000	1.000	
0010	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 01. Station 136+25.00	LS	1.000	1.000	
0012	204.0100	Removing Pavement	SY	3,275.000	675.000	2,600.000
0014	204.0109.S	Removing Concrete Surface Partial Depth	SF	63,600.000		63,600.000
0016	204.0110	Removing Asphaltic Surface	SY	1,350.000	187.000	1,163.000
0018	204.0115	Removing Asphaltic Surface Butt Joints	SY	205.000	75.000	130.000
0020	204.0120	Removing Asphaltic Surface Milling	SY	103,720.000	40,380.000	63,340.000
0022	204.0130	Removing Curb	LF	33.000		33.000
0024	204.0150	Removing Curb & Gutter	LF	1,325.000	405.000	920.000
0026	204.0155	Removing Concrete Sidewalk	SY	1,535.000	150.000	1,385.000
0028	204.0185	Removing Masonry	CY	3.000		3.000
0030	204.0195	Removing Concrete Bases	EACH	2.000		2.000
0032	204.0250	Abandoning Manholes	EACH	1.000		1.000
0034	204.0280	Sealing Pipes	EACH	3.000	2.000	1.000
0036	204.9090.S	Removing (item description) 01. Watermain	LF	90.000	90.000	
0038	205.0100	Excavation Common	CY	2,651.000	1,643.000	1,008.000
0040	206.2000	Excavation for Structures Culverts (structure) 01. C-58-31	LS	1.000	1.000	
0042	208.0100	Borrow	CY	75.000		75.000
0044	209.0300.S	Backfill Coarse Aggregate (size) 01. Size No. 2	CY	14.000	14.000	
0046	210.2500	Backfill Structure Type B	TON	912.000	912.000	
0048	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 9180-23-71	LS	1.000	1.000	
0050	211.0100	Prepare Foundation for Asphaltic Paving (project) 02. 9180-23-72	LS	1.000		1.000
0052	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	159.000	78.000	81.000
0054	213.0100	Finishing Roadway (project) 01. 9180-23-71	EACH	1.000	1.000	
0056	213.0100	Finishing Roadway (project) 02. 9180-23-72	EACH	1.000		1.000
0058	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,955.000	1,000.000	955.000
0060	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	3,130.000	1,180.000	1,950.000
0062	305.0500	Shaping Shoulders	STA	143.000	65.000	78.000
0064	311.0110	Breaker Run	TON	464.000	464.000	
0066	415.0090	Concrete Pavement 9-Inch	SY	35.000		35.000
0068	415.5110.S	Concrete Pavement Joint Layout	LS	1.000		1.000
0070	416.0160	Concrete Driveway 6-Inch	SY	325.000		325.000
0072	416.0260	Concrete Driveway HES 6-Inch	SY	155.000		155.000
0074	416.0610	Drilled Tie Bars	EACH	195.000		195.000

					9180-23-71	9180-23-72
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0076	455.0605	Tack Coat	GAL	8,540.000	3,070.000	5,470.000
0078	460.2000	Incentive Density HMA Pavement	DOL	7,780.000	2,730.000	5,050.000
0080	460.6424	HMA Pavement 4 MT 58-28 H	TON	12,150.000	4,265.000	7,885.000
0082	465.0105	Asphaltic Surface	TON	315.000	315.000	
0084	465.0110	Asphaltic Surface Patching	TON	265.000	75.000	190.000
0086	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	225.000	22.000	203.000
0088	465.0315	Asphaltic Flumes	SY	25.000	20.000	5.000
0090	504.0100	Concrete Masonry Culverts	CY	226.000	226.000	
0092	505.0400	Bar Steel Reinforcement HS Structures	LB	32,660.000	32,660.000	
0094	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	910.000	910.000	
0096	511.1200	Temporary Shoring (structure) 01. C-58-31	SF	315.000	315.000	
0098	516.0500	Rubberized Membrane Waterproofing	SY	19.000	19.000	
0100	516.0610.S	Sheet Membrane Waterproofing for Top Slab (structure) 01. C-58-31	SY	236.000	236.000	
0102	521.1012	Apron Endwalls for Culvert Pipe Steel 12-Inch	EACH	2.000		2.000
0104	521.1518	Apron Endwalls for Culvert Pipe Sloped Side Drains Steel 18-Inch 6 to 1	EACH	2.000	2.000	
0106	521.3112	Culvert Pipe Corrugated Steel 12-Inch	LF	26.000		26.000
0108	521.3118	Culvert Pipe Corrugated Steel 18-Inch	LF	54.000	54.000	
0110	522.2324	Culvert Pipe Reinforced Concrete Horizontal Elliptical Class HE-III 24x38-Inch	LF	64.000	64.000	
0112	522.2624	Apron Endwalls for Culvert Pipe Reinforced Concrete Horizontal Elliptical 24x38-Inch	EACH	2.000	2.000	
0114	601.0105	Concrete Curb Type A	LF	33.000		33.000
0116	601.0405	Concrete Curb & Gutter 18-Inch Type A	LF	22.000		22.000
0118	601.0407	Concrete Curb & Gutter 18-Inch Type D	LF	150.000	17.000	133.000
0120	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	395.000		395.000
0122	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	940.000	255.000	685.000
0124	601.0452	Concrete Curb & Gutter Integral 30-Inch Type D	LF	85.000		85.000
0126	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	130.000	130.000	
0128	601.0600	Concrete Curb Pedestrian	LF	230.000	18.000	212.000
0130	602.0415	Concrete Sidewalk 6-Inch	SF	15,530.000	1,825.000	13,705.000
0132	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	428.000	60.000	368.000
0134	602.0615	Curb Ramp Detectable Warning Field Radial Natural Patina	SF	275.000	90.000	185.000
0136	603.8000	Concrete Barrier Temporary Precast Delivered	LF	500.000	500.000	
0138	603.8125	Concrete Barrier Temporary Precast Installed	LF	1,000.000	1,000.000	
0140	606.0300	Riprap Heavy	CY	47.000	47.000	
0142	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	50.000		50.000
0144	611.0530	Manhole Covers Type J	EACH	1.000		1.000

					9180-23-71	9180-23-72
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0146	611.0612	Inlet Covers Type C	EACH	1.000		1.000
0148	611.0651	Inlet Covers Type S	EACH	2.000		2.000
0150	611.2004	Manholes 4-FT Diameter	EACH	1.000		1.000
0152	611.3003	Inlets 3-FT Diameter	EACH	1.000		1.000
0154	611.8110	Adjusting Manhole Covers	EACH	39.000	15.000	24.000
0156	611.8115	Adjusting Inlet Covers	EACH	6.000		6.000
0158	614.0920	Salvaged Rail	LF	500.000	500.000	
0160	614.0925	Salvaged Guardrail End Treatments	EACH	4.000	4.000	
0162	614.0950	Replacing Guardrail Posts and Blocks	EACH	10.000	10.000	
0164	614.0951	Replacing Guardrail Rail and Hardware	LF	37.500	37.500	
0166	618.0100	Maintenance And Repair of Haul Roads (project) 01. 9180-23-71	EACH	1.000	1.000	
0168	618.0100	Maintenance And Repair of Haul Roads (project) 02. 9180-23-72	EACH	1.000		1.000
0170	619.1000	Mobilization	EACH	1.000	0.500	0.500
0172	621.0100	Landmark Reference Monuments	EACH	28.000	12.000	16.000
0174	624.0100	Water	MGAL	32.000	13.000	19.000
0176	625.0100	Topsoil	SY	7,100.000	6,050.000	1,050.000
0178	628.1504	Silt Fence	LF	1,625.000	1,265.000	360.000
0180	628.1520	Silt Fence Maintenance	LF	1,625.000	1,265.000	360.000
0182	628.1905	Mobilizations Erosion Control	EACH	10.000	6.000	4.000
0184	628.1910	Mobilizations Emergency Erosion Control	EACH	5.000	3.000	2.000
0186	628.2004	Erosion Mat Class I Type B	SY	525.000	525.000	
0188	628.2008	Erosion Mat Urban Class I Type B	SY	6,575.000	5,525.000	1,050.000
0190	628.5505	Polyethylene Sheeting	SY	630.000	630.000	
0192	628.7010	Inlet Protection Type B	EACH	5.000	5.000	
0194	628.7015	Inlet Protection Type C	EACH	85.000	35.000	50.000
0196	628.7504	Temporary Ditch Checks	LF	205.000	142.000	63.000
0198	628.7555	Culvert Pipe Checks	EACH	22.000	20.000	2.000
0200	628.7570	Rock Bags	EACH	90.000	90.000	
0202	629.0210	Fertilizer Type B	CWT	1.000	1.000	
0204	630.0130	Seeding Mixture No. 30	LB	10.000	10.000	
0206	630.0140	Seeding Mixture No. 40	LB	48.000	28.000	20.000
0208	631.0300	Sod Water	MGAL	28.000	7.000	21.000
0210	633.5200	Markers Culvert End	EACH	6.000	2.000	4.000
0212	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	7.000		7.000
0214	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	11.000		11.000
0216	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	8.000		8.000
0218	634.0620	Posts Wood 4x6-Inch X 20-FT	EACH	8.000		8.000
0220	634.0814	Posts Tubular Steel 2x2-Inch X 14-FT	EACH	30.000		30.000

					9180-23-71	9180-23-72
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0222	634.0816	Posts Tubular Steel 2x2-Inch X 16-FT	EACH	5.000		5.000
0224	634.0818	Posts Tubular Steel 2x2-Inch X 18-FT	EACH	7.000		7.000
0226	637.2210	Signs Type II Reflective H	SF	861.730		861.730
0228	637.2215	Signs Type II Reflective H Folding	SF	153.540		153.540
0230	637.2230	Signs Type II Reflective F	SF	43.640		43.640
0232	638.2102	Moving Signs Type II	EACH	6.000	3.000	3.000
0234	638.2602	Removing Signs Type II	EACH	111.000		111.000
0236	638.3000	Removing Small Sign Supports	EACH	65.000		65.000
0238	638.4000	Moving Small Sign Supports	EACH	4.000	3.000	1.000
0240	642.5001	Field Office Type B	EACH	1.000	0.500	0.500
0242	643.0300	Traffic Control Drums	DAY	33,055.000	15,271.000	17,784.000
0244	643.0310.S	Temporary Portable Rumble Strips 01. 9180-23-71	LS	1.000	1.000	
0246	643.0310.S	Temporary Portable Rumble Strips 02. 9180-23-72	LS	1.000		1.000
0248	643.0410	Traffic Control Barricades Type II	DAY	495.000	100.000	395.000
0250	643.0420	Traffic Control Barricades Type III	DAY	3,790.000	815.000	2,975.000
0252	643.0705	Traffic Control Warning Lights Type A	DAY	7,160.000	1,260.000	5,900.000
0254	643.0715	Traffic Control Warning Lights Type C	DAY	2,820.000	960.000	1,860.000
0256	643.0800	Traffic Control Arrow Boards	DAY	315.000	105.000	210.000
0258	643.0900	Traffic Control Signs	DAY	26,052.000	5,220.000	20,832.000
0260	643.0910	Traffic Control Covering Signs Type I	EACH	8.000		8.000
0262	643.0920	Traffic Control Covering Signs Type II	EACH	17.000	4.000	13.000
0264	643.1050	Traffic Control Signs PCMS	DAY	77.000	42.000	35.000
0266	643.1070	Traffic Control Cones 42-Inch	DAY	65,988.000	670.000	65,318.000
0268	643.5000	Traffic Control	EACH	1.000	0.500	0.500
0270	644.1420.S	Temporary Pedestrian Surface Plywood	SF	250.000	205.000	45.000
0272	644.1601.S	Temporary Curb Ramp	EACH	10.000	8.000	2.000
0274	645.0105	Geotextile Type C	SY	340.000	340.000	
0276	645.0120	Geotextile Type HR	SY	104.000	104.000	
0278	646.1020	Marking Line Epoxy 4-Inch	LF	56,500.000	21,190.000	35,310.000
0280	646.1545	Marking Line Grooved Wet Ref Contrast Epoxy 4-Inch	LF	2,093.000	1,764.000	329.000
0282	646.3020	Marking Line Epoxy 8-Inch	LF	1,753.000	175.000	1,578.000
0284	646.3545	Marking Line Grooved Wet Ref Contrast Epoxy 8-Inch	LF	2,248.000	1,954.000	294.000
0286	646.4520	Marking Line Same Day Epoxy 4-Inch	LF	6,380.000	6,380.000	
0288	646.5020	Marking Arrow Epoxy	EACH	31.000	6.000	25.000
0290	646.5120	Marking Word Epoxy	EACH	6.000	4.000	2.000
0292	646.5320	Marking Railroad Crossings Epoxy	EACH	4.000		4.000
0294	646.6120	Marking Stop Line Epoxy 18-Inch	LF	803.000	105.000	698.000
0296	646.7120	Marking Diagonal Epoxy 12-Inch	LF	500.000	500.000	
0298	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	1,200.000	200.000	1,000.000
0300	646.7520	Marking Crosswalk Epoxy Ladder Pattern 24-Inch	LF	300.000	65.000	235.000

					9180-23-71	9180-23-72
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
0302	646.8020	Marking Corrugated Median Epoxy	SF	2,000.000		2,000.000
0304	646.8120	Marking Curb Epoxy	LF	130.000	10.000	120.000
0306	646.9000	Marking Removal Line 4-Inch	LF	45,965.000	45,965.000	
0308	646.9100	Marking Removal Line 8-Inch	LF	218.000	218.000	
0310	649.0105	Temporary Marking Line Paint 4-Inch	LF	64,086.000	64,086.000	
0312	650.4000	Construction Staking Storm Sewer	EACH	2.000		2.000
0314	650.4500	Construction Staking Subgrade	LF	530.000	100.000	430.000
0316	650.5000	Construction Staking Base	LF	530.000	100.000	430.000
0318	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	1,128.000	295.000	833.000
0320	650.6000	Construction Staking Pipe Culverts	EACH	4.000	3.000	1.000
0322	650.6500	Construction Staking Structure Layout (structure) 01. C-58-31	LS	1.000	1.000	
0324	650.8000	Construction Staking Resurfacing Reference	LF	18,667.000	7,205.000	11,462.000
0326	650.9910	Construction Staking Supplemental Control (project) 01. 9180-23-71	LS	1.000	1.000	
0328	650.9910	Construction Staking Supplemental Control (project) 02. 9180-23-72	LS	1.000		1.000
0330	650.9920	Construction Staking Slope Stakes	LF	1,005.000	575.000	430.000
0332	653.0900	Adjusting Pull Boxes	EACH	5.000		5.000
0334	690.0150	Sawing Asphalt	LF	3,790.000	1,500.000	2,290.000
0336	690.0250	Sawing Concrete	LF	3,280.000	410.000	2,870.000
0338	715.0415	Incentive Strength Concrete Pavement	DOL	500.000		500.000
0340	715.0502	Incentive Strength Concrete Structures	DOL	1,356.000	1,356.000	
0342	740.0440	Incentive IRI Ride	DOL	25,890.000	8,520.000	17,370.000
0344	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,000.000	2,000.000	
0346	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	1,260.000	1,260.000	
0348	SPV.0030	Special 01. Fertilizer for Lawn Type Turf	CWT	1.600	1.000	0.600
0350	SPV.0060	Special 01. Reestablish Section Corner Monuments	EACH	7.000	3.000	4.000
0352	SPV.0060	Special 02. Research and Locate Existing Land Parcel Monuments	EACH	96.000	16.000	80.000
0354	SPV.0060	Special 03. Verify and Replace Existing Land Parcel Monuments	EACH	96.000	16.000	80.000
0356	SPV.0060	Special 04. Inlet Covers Type HD	EACH	3.000		3.000
0358	SPV.0060	Special 05. Reconstructing Sanitary Sewer Manholes	EACH	2.000		2.000
0360	SPV.0060	Special 06. Adjusting Sanitary Manhole Covers	EACH	32.000	9.000	23.000
0362	SPV.0060	Special 07. Adjusting Water Valve Boxes	EACH	48.000	9.000	39.000
0364	SPV.0085	Special 01. Seeding, Wet Meadow and Shallow Marsh Mix	LB	3.000	3.000	
0366	SPV.0090	Special 01. Culvert Pipe Temporary Horizontal Elliptical 38x60-Inch	LF	180.000	180.000	
0368	SPV.0090	Special 02. Concrete Curb and Gutter HES 30-Inch	LF	575.000		575.000

					9180-23-71	9180-23-72
Line	**Item**	**Item Description**	**Unit**	**Total**	**Qty**	**Qty**
		Type D				
0370	SPV.0090	Special 03. Heavy Duty Silt Fence	LF	100.000	100.000	
0372	SPV.0180	Special 01. Preparing Topsoil for Lawn Type Turf	SY	2,575.000	1,525.000	1,050.000

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CLEARING AND GRUBBING ITEMS

CATEGORY	STAGE	STATION	TO	STATION	OFFSET	201.0105 CLEARING STA	201.0205 GRUBBING STA
9180-23-71 0010	MC1	135+60	-	13860	RT	4	4
TOTALS						4	4

REMOVING ITEMS

CATEGORY	STAGE	STATION	TO	STATION	OFFSET	204.0100 REMOVING PAVEMENT SY	204.0109.S REMOVING CONCRETE SURFACE PARTIAL DEPTH SF	204.0110 REMOVING ASPHALTIC SURFACE SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	204.0130 REMOVING CURB LF	204.0150 REMOVING CURB & GUTTER LF	204.0155 REMOVING CONCRETE SIDEWALK SY	204.0185 REMOVING MASONRY CY	204.0195 REMOVING CONCRETE BASES EACH	204.0280* SEALING PIPES EACH	204.9090.S REMOVING WATERMAIN LF	COMMENTS
9180-23-71 0010	MS1	1089+67	-	1100+00	LT & RT	–	--	55	4,590	–	–	–	–	--	–	--	
	MS1	1100+00	-	1121+37	LT & RT	–	--	–	10,850	–	–	–	–	--	–	--	
	MS1	1099+28	-	1100+82	LT & RT	–	--	39	--	–	169	72	–	--	–	--	CTH B / WILLOW LN
	MS1	1105+51	-	1106+49	RT	–	--	9	--	–	35	25	–	--	–	--	PEARL AVE
	MS1	1119+20	-	1120+07	LT	–	--	10	--	–	41	27	–	--	–	--	SUNSET AVE
	MS1	1120+52	-	1121+39	RT	–	--	8	--	–	30	26	–	--	–	--	E ZINGLER AVE
	GB1	132+89	-	134+00	RT	–	--	30	--	–	130	–	–	--	–	--	RUSCH RD
	GB2	116+47	-	156+82	LT & RT	–	--	–	10,760	–	–	–	–	--	–	--	
	GB3	116+47	-	156+82	RT	–	--	–	6,280	–	–	–	–	--	–	--	
	GB4	116+47	-	156+82	LT	–	--	–	7,900	–	–	–	–	--	–	--	
	MC1	135+70	-	136+18	RT	175	--	–	--	–	–	–	–	--	–	--	BOX CULVERT
	MC2	135+70	-	136+70	LT	322	--	–	--	–	–	–	–	--	2	90	BOX CULVERT
	MC3	135+70	-	136+70	RT	178	--	–	--	–	–	–	–	--	–	--	BOX CULVERT
PROJECT ID: 9180-23-71 CAT 0010 SUBTOTALS						675	--	150	40,380	–	405	150	–	--	2	90	
0030	MS1	1099+50	-	1121+37		–	--	37	--	–	–	–	–	--	–	--	
PROJECT ID: 9180-23-71 CAT 0030 SUBTOTALS						–	--	37	--	–	–	–	–	--	–	--	
PROJECT ID: 9180-23-71 TOTALS						675	--	187	40,380	–	405	150	–	--	2	90	

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

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REMOVING ITEMS (CONTINUED)

CATEGORY	STAGE	STATION	TO	STATION	OFFSET	204.0100 REMOVING PAVEMENT SY	204.0109.S REMOVING CONCRETE SURFACE PARTIAL DEPTH SF	204.0110 REMOVING ASPHALTIC SURFACE SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	204.0130 REMOVING CURB LF	204.0150 REMOVING CURB & GUTTER LF	204.0155 REMOVING CONCRETE SIDEWALK SY	204.0185 REMOVING MASONRY CY	204.0195 REMOVING CONCRETE BASES EACH	204.0280 SEALING PIPES EACH	204.9090.S REMOVING WATERMAIN LF	COMMENTS
9180-23-72																	
0010	GB1	4+79	-	5+70	LT & RT	30	--	38	--	–	106	99	3	--	–	–	SAWYER ST
	GB1	9+76	-	10+62	LT & RT	–	--	10	--	–	109	90	–	1	–	–	ANDREW ST
	GB1	13+17	-	14+30	LT & RT	–	--	22	--	–	90	71	–	--	–	–	LINCOLN ST
	GB1	16+32	-	17+90	LT & RT	6	--	244	--	33	124	71	–	--	–	–	UNION ST
	GB1	26+40	-	27+03	LT	10	--	1	--	–	5	23	–	--	–	–	ELLIS ST
	GB1	32+20	-	33+10	LT & RT	30	--	4	--	–	16	60	–	--	–	–	FAIRVIEW AVE
	GB1	35+91	-	40+30	LT	–	--	625	--	–	175	168	–	--	–	–	
	GB1	35+91	-	40+92	LT	–	--	10	--	–	22	20	–	1	–	–	GREEN BAY CT
	GB1	48+78	-	50+24	RT	–	--	169	--	–	--	2	–	--	–	–	
	GB1	50+24	-	54+60	LT	4	--	–	--	–	31	19	–	--	–	–	ARLINGTON ST
	GB1	53+26	-	54+67	LT & RT	8	--	–	--	–	80	54	–	--	–	–	WAUKECHON
	GB1	58+91	-	60+90	LT & RT	–	--	–	--	–	112	73	–	--	–	–	WOODLAWN DR
	GB1	64+43	-	65+58	LT & RT	15	--	32	--	–	18	13	–	--	–	–	MOUNTAIN BAY TRAIL
	GB1	75+58	-	75+97	LT & RT	–	--	7	--	–	32	7	–	--	–	–	EBERLEIN PARK RD
	GB2	1+85	-	24+50	LT & RT	19	--	–	6,030	–	--	–	–	--	–	–	
	GB2	24+50	-	51+80	LT & RT	11	335	–	7,150	–	--	–	–	--	–	–	
	GB2	51+80	-	116+47	LT & RT	–	--	–	19,250	–	--	–	–	--	–	–	
	GB3	1+85	-	24+50	RT	30	12,150	–	1,950	–	--	–	–	--	–	–	
	GB3	24+50	-	51+80	RT	4	11,125	–	2,270	–	--	–	–	--	–	–	
	GB3	51+80	-	116+47	RT	7	7,965	–	11,340	–	--	–	–	--	–	–	
	GB4	1+85	-	24+50	LT	7	12,295	–	1,730	–	--	–	–	--	–	–	
	GB4	24+50	-	51+80	LT	7	19,730	–	1,240	–	--	–	–	--	–	–	
	GB4	51+80	-	116+47	LT	–	--	–	12,380	–	--	–	–	--	–	–	
	--	21+91	-	26+40	LT & RT	2,320	--	–	--	–	--	615	–	--	1	–	RR CROSSING
PROJECT ID: 9180-23-72 CAT 0010 SUBTOTALS						2,508	63,600	1,163	63,340	33	920	1,385	3	2	1	–	
0030																	
	GB2	1+85	-	22+10	LT & RT	31	--	–	--	–	--	–	–	--	–	–	MANHOLE AND WATER VALVE ADJUSTMENTS
	GB2	26+40	-	51+80	LT & RT	1	--	–	--	–	--	–	–	--	–	–	MANHOLE AND WATER VALVE ADJUSTMENTS
	GB3	26+40	-	51+80	RT	16	--	–	--	–	--	–	–	--	–	–	MANHOLE AND WATER VALVE ADJUSTMENTS
	GB4	1+85	-	22+10	LT	3	--	–	--	–	--	–	–	--	–	–	MANHOLE AND WATER VALVE ADJUSTMENTS
	GB4	26+40	-	51+80	LT	41	--	–	--	–	--	–	–	--	–	–	MANHOLE AND WATER VALVE ADJUSTMENTS
PROJECT ID: 9180-23-72 CAT 0030 SUBTOTALS						92	--	–	--	–	--	–	–	--	–	–	
PROJECT ID: 9180-23-72 TOTALS						2,600	63,600	1,163	63,340	33	920	1,385	3	2	1	–	
TOTALS						3,275	63,600	1,350	103,720	33	1,325	1,535	3	2	3	90	

3

EARTHWORK SUMMARY

DIVISION	LOCATION	ITEM #205.0100 EXCAVATION COMMON (NOTE 1) CY	SALVAGED / UNUSEABLE PAVEMENT MATERIAL (NOTE 2)	AVAILABLE MATERIAL (NOTE 3)	UNEXPANDED FILL	EXPANDED FILL (NOTE 4)	MASS ORDINATE +/- (NOTE 5)	ITEM #208.0100 BORROW CY
PROJECT ID 9180-23-71						FACTOR 1.25		
STH 22								
1 - STAGE MC2	STA 134+00 - STA 139+75 LT (BOX CULVERT C-58-0031)	752	102	650	122	153	497	–
PROJECT ID 9180-23-71 SUBTOTALS		752	102	650	122	153	497	0

DIVISION	LOCATION	ITEM #205.0100 EXCAVATION COMMON (NOTE 1) CY	SALVAGED / UNUSEABLE PAVEMENT MATERIAL (NOTE 2)	AVAILABLE MATERIAL (NOTE 3)	UNEXPANDED FILL	EXPANDED FILL (NOTE 4)	MASS ORDINATE +/- (NOTE 5)	ITEM #208.0100 BORROW CY
PROJECT ID 9180-23-71						FACTOR 1.25		
STH 22								
2 - STAGE MC3	STA 134+00 - STA 139+75 RT (BOX CULVERT C-58-0031)	891	102	789	220	275	514	–
PROJECT ID 9180-23-71 SUBTOTALS		891	102	789	220	275	514	0
PROJECT ID 9180-23-71 TOTALS		1,643	204	1,439	342	428	1,011	0

DIVISION	LOCATION	ITEM #205.0100 EXCAVATION COMMON (NOTE 1) CY	SALVAGED / UNUSEABLE PAVEMENT MATERIAL (NOTE 2)	AVAILABLE MATERIAL (NOTE 3)	UNEXPANDED FILL	EXPANDED FILL (NOTE 4)	MASS ORDINATE +/- (NOTE 5)	ITEM #208.0100 BORROW CY
PROJECT ID 9180-23-72						FACTOR 1.25		
STH 22								
3	STA 22+10 - STA 26+40 LT&RT (RR CROSSING)	1,008	949	59	107	134	-75	75
PROJECT ID 9180-23-72 TOTALS		1,008	949	59	107	134	-75	75

1) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT
2) SALVAGED/UNUSABLE PAVEMENT MATERIAL = (AREA OF PROJECT PAVEMENT, CURB & GUTTER, AND SIDEWALK REMOVAL) * (TYPICAL DEPTH)
3) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSUABLE PAVEMENT MATERIAL
4) EXPANDED FILL FACTOR = (UNEXPANDED FILL) * (FILL FACTOR)
5) MASS ORDINATE = AVAILABLE MATERIAL - (EXPANDED FILL); POSITIVE INDICATES AN EXCESS OF MATERIAL

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PREPARE FOUNDATION ITEMS

CATEGORY	STAGE	STATION	TO	STATION	OFFSET	211.0100.01 PREPARE FOUNDATION FOR ALPHALTIC PAVING (9180-23-71) LS	211.0100.02 PREPARE FOUNDATION FOR ALPHALTIC PAVING (9180-23-72) LS	211.0400 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS STA	213.0100.01 FINISHING ROADWAY (9180-23-71) EACH	213.0100.02 FINISHING ROADWAY (9180-23-72) EACH
9180-23-71										
0010	MS1	1089+67	-	1099+11	RT	–	--	10	--	–
	MS1	1089+67	-	1099+60	LT	–	--	10	--	–
	GB3	116+47	-	156+82	RT	–	--	22	--	–
	GB4	116+47	-	156+82	LT	–	--	36	--	–
				PROJECT		1	--	–	1	
PROJECT ID: 9180-23-71 TOTALS						1	--	78	1	–
9180-23-72										
0010	GB3	65+09	-	116+47	RT	–	--	39	--	–
	GB4	65+09	-	116+47	LT	–	--	42	--	–
				PROJECT		–	1	–	--	1
PROJECT ID: 9180-23-72 TOTALS						–	1	81	--	1
TOTALS						1	1	159	1	1

BASE AGGREGATE ITEMS

CATEGORY	STAGE	STATION	TO	STATION	OFFSET	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	305.0500 SHAPING SHOULDERS STA	COMMENTS
9180-23-71									
0010	MS1	1089+67	-	1099+60	LT & RT	15	–	–	SHOULDERS
	MS1	1100+00	-	1121+37	LT & RT	--	40	–	ADJUSTING MANHOLES
	GB3	116+47	-	156+82	RT	240	–	–	SHOULDERS
	GB4	65+45	-	65+75	LT	5	–	–	MOUNTAIN BAY TRAIL
	GB4	116+47	-	156+82	LT	395	–	–	SHOULDERS
	MC1	135+70	-	136+18	RT	10	182	–	BOX CULVERT #
	MC2	135+00	-	139+00	LT	120	352	–	BOX CULVERT #
	MC3	134+00	-	139+75	RT	155	374	–	BOX CULVERT #
	MC4	135+70	-	136+18	LT	10	160	–	BOX CULVERT #
	–	0+90'R'	-	2+00'R'	RT	--	46	–	RUSCH RD DRIVEWAY
				UNDISTRIBUTED		50	–	65	
PROJECT ID: 9180-23-71 CAT 0010 TOTALS						1,000	1,154	65	
9180-23-71									
0030	MS1	1099+50	-	1121+37	LT & RT	--	26	–	ADJUSTING MANHOLES
PROJECT ID: 9180-23-71 CAT 0030 TOTALS						–	26	–	
PROJECT ID: 9180-23-71 TOTALS						1,000	1,180	65	
9180-23-72									
0010	GB1	1+85	-	22+10	LT & RT	--	–	–	ADJUSTING MH
	GB1	26+40	-	51+80	LT	--	–		
	GB2	1+85	-	22+10	LT & RT	--	6	–	ADJUSTING MH
	GB2	26+40	-	51+80	LT & RT	--	4	–	ADJUSTING MH
	GB3	1+85	-	22+10	RT	--	10	–	ADJUSTING MH
	GB3	26+40	-	51+80	RT	--	2	–	ADJUSTING MH
	GB3	51+80	-	116+47	RT	--	4	–	ADJUSTING MH
	GB4	1+85	-	22+10	LT	--	2	–	ADJUSTING MH
	GB4	26+40	-	51+80	LT	--	4	–	ADJUSTING MH
	GB3	68+55	-	71+41	RT	345	–	–	SHOULDERS
	GB4	66+95	-	74+79	LT	375	–	–	SHOULDERS
	–	22+10	-	26+40	LT & RT	15	1,883	–	RAILROAD CROSSING
				UNDISTRIBUTED		220	–	78	
PROJECT ID: 9180-23-72 CAT 0010 TOTALS						955	1,915	78	
9180-23-72									
0030	GB2	1+85	-	22+10	LT & RT	--	10	–	
	GB2	26+40	-	51+80	LT & RT	--	–	–	
	GB3	26+40	-	51+80	RT	--	6	–	
	GB4	1+85	-	22+10	LT	--	2	–	
	GB4	26+40	-	51+80	LT	--	17	–	
PROJECT ID: 9180-23-72 CAT 0030 TOTALS						--	35	–	
PROJECT ID: 9180-23-72 TOTALS						955	1,950	78	
TOTALS						1,955	3,130	143	

BASE AGGREGATE DENSE 1 1/4-INCH IS PLACED BETWEEN STA 135+70 AND STA 136+70 IN STAGE MC2 AND MC3 DURING THE BOX CULVERT REPLACEMENT

CONCRETE PAVEMENT ITEMS

CATEGORY	STAGE	STATION	TO	STATION	OFFSET	415.0090 CONCRETE PAVEMENT 9-INCH SY	416.0610* DRILLED TIE BARS EACH	415.5110.S CONCRETE PAVEMENT JOINT LAYOUT LS	COMMENTS
9180-23-72									
0010	GB1	4+93	-	5+59	LT & RT	9	16	–	SAWYER ST
	GB1	26+48	-	26+63	LT	5	9	–	ELLIS ST
	GB1	32+33	-	33+02	LT	21	20	–	FAIRVIEW AVE
		PROJECT				--	--	1	
TOTALS						35	45	1	

*ADDITIONAL QUANTITIES SHOWN ELESWHERE

ASPHALTIC ITEMS

CATEGORY	STAGE	STATION	TO	STATION	OFFSET	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	455.0605 TACK COAT GAL	460.6424 HMA PAVEMENT 4 MT 58-28 H TON	465.0105 ASPHALTIC SURFACE TON	465.0110 ASPHALTIC SURFACE PATCHING TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0315 ASPHALTIC FLUMES SY	COMMENTS
9180-23-71													
0010	MS1	1089+67	-	1100+00	LT & RT	--	45	104	–	--	–	–	SHOULDERS
	MS1	1089+67	-	1100+00	LT & RT	23	343	473	–	9	–	–	
	MS1	1100+00	-	1121+37	LT & RT	29	759	1,045	–	--	–	–	
	MS1	1099+28	-	1100+66	LT & RT	--	–	--	–	13	–	–	CTH B / WILLOW LN
	MS1	1105+64	-	1106+33	RT	--	–	--	–	3	–	–	PEARL AVE
	MS1	1119+28	-	1119+93	LT	--	–	--	–	3	–	–	SUNSET AVE
	MS1	1120+68	-	1121+29	RT	--	–	--	–	2	–	–	ZINGLER AVE
	GB1	132+89	-	133+99	RT	--	–	--	–	17	–	–	RUSCH RD
	GB2	116+47	-	156+82	LT & RT	7	753	1,036	–	--	–	–	
	GB3	116+47	-	156+82	RT	16	440	605	–	3	–	20	
	GB3	116+47	-	156+82	RT	--	51	71	–	--	–	–	SHOULDERS
	GB4	116+47	-	156+82	LT	--	553	761	–	--	–	–	
	GB4	116+47	-	156+82	LT	--	126	173	–	--	–	–	SHOULDERS
	MC1	135+75	-	136+18	RT	--	–	--	55	--	–	–	BOX CULVERT
	MC2	135+70	-	136+70	LT	--	–	--	102	--	22	–	BOX CULVERT
	MC3	135+70	-	136+70	RT	--	–	--	113	--	–	–	BOX CULVERT
	MC4	135+70	-	136+18	LT	--	–	--	45	--	–	–	BOX CULVERT
PROJECT ID: 9180-23-71 CAT 0010 TOTALS						75	3,070	4,265	315	50	22	20	
9180-23-71													
0030	MS1	1099+50	-	1121+37	LT & RT	--	–	--	–	25	–	–	MANHOLE AND WATER VALVE ADJUSTMENTS
PROJECT ID: 9180-23-71 CAT 0030 TOTALS						--	–	--	–	25	–	–	
PROJECT ID: 9180-23-71 TOTALS						75	3,070	4,265	315	75	22	20	

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ASPHALTIC ITEMS (CONTINUED)

CATEGORY	STAGE	STATION	TO	STATION	OFFSET	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	455.0605 TACK COAT GAL	460.6424 HMA PAVEMENT 4 MT 58-28 H TON	465.0105 ASPHALTIC SURFACE TON	465.0110 ASPHALTIC SURFACE PATCHING TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0315 ASPHALTIC FLUMES SY	COMMENTS
9180-23-72													
0010	GB1	4+79	-	5+70	LT & RT	–	--	–	--	14	6	–	SAWYER ST
	GB1	9+76	-	10+62	LT & RT	–	--	–	--	–	3	–	ANDREW ST
	GB1	13+21	-	14+26	LT & RT	–	--	–	--	12	1	–	LINCOLN ST
	GB1	16+48	-	17+87	LT & RT	–	--	–	--	3	11	–	UNION ST
	GB1	26+79	-	26+94	LT	–	--	–	--	4	–	–	ELLIS ST
	GB1	32+17	-	32+50	RT	–	--	–	--	6	1	–	FAIRVIEW AVE
	GB1	35+95	-	40+84	LT	–	--	–	--	6	73	–	GREEN BAY CT
	GB1	48+78	-	50+24	RT	–	--	–	--	–	14	–	
	GB1	50+24	-	50+60	LT	–	--	–	--	2	–	–	ARLINGTON ST
	GB1	53+32	-	54+58	LT & RT	–	--	–	--	8	–	–	WAUKECHON ST
	GB1	64+60	-	65+42	LT & RT	–	--	–	--	8	1	5	MOUNTAIN BAY TRAIL
	GB1	75+58	-	75+97	LT & RT	–	--	–	--	4	–	–	EBERLEIN PARK RD
	GB2	1+85	-	24+50	LT & RT	5	422	580	--	12	–	–	
	GB2	24+50	-	51+80	LT & RT	–	503	692	--	7	–	–	
	GB2	51+80	-	116+47	LT & RT	–	1,350	1,855	--	–	–	–	
	GB3	1+85	-	24+50	RT	28	231	318	--	19	–	–	
	GB3	24+50	-	51+80	RT	10	246	338	--	2	–	–	
	GB3	51+80	-	116+47	RT	22	856	1,177	--	5	–	–	
	GB3	65+09	-	116+47	RT	–	116	160	--	–	–	–	SHOULDERS
	GB4	1+85	-	24+50	LT	27	217	298	--	5	–	–	
	GB4	24+50	-	51+80	LT	8	240	330	--	5	–	–	
	GB4	51+80	-	116+47	LT	30	867	1,195	--	–	–	–	
	GB4	65+09	-	116+47	LT	–	128	278	--	–	–	–	SHOULDERS
	–	22+10	-	26+40	LT & RT	–	294	665	--	3	94	–	RAILROAD CROSSING
PROJECT ID: 9180-23-72 CAT 0010 TOTALS						130	5,470	7,885	--	125	203	5	
9180-23-72													
0030	GB2	1+85	-	22+10	LT & RT	–	--	–	--	20	–	–	MANHOLE AND WATER VALVE ADJUSTMENTS
	GB2	26+40	-	51+80	LT & RT	–	--	–	--	1	–	–	MANHOLE AND WATER VALVE ADJUSTMENTS
	GB3	26+40	-	51+80	RT	–	--	–	--	11	–	–	MANHOLE AND WATER VALVE ADJUSTMENTS
	GB4	1+85	-	22+10	LT	–	--	–	--	2	–	–	MANHOLE AND WATER VALVE ADJUSTMENTS
	GB4	26+40	-	51+80	LT	–	--	–	--	31	–	–	MANHOLE AND WATER VALVE ADJUSTMENTS
PROJECT ID: 9180-23-72 CAT 0030 TOTALS						–	--	–	--	65	–	–	
PROJECT ID: 9180-23-72 TOTALS						130	5,470	7,885	--	190	203	5	
TOTALS						205	8,540	12,150	315	265	225	25	

CULVERT ITEMS

CATEGORY	STAGE	STATION	OFFSET	203.0100 REMOVING SMALL PIPE CULVERTS EACH	203.0200 REMOVING OLD STRUCTURE (135+72) LS	209.0030.S BACKFILL COURSE AGGREGATE SIZE NO. 2 CY	521.1012 APRON ENDWALLS FOR CULVERT PIPE STEEL 12-INCH EACH	521.1518 APRON ENDWALLS FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 18-INCH 6 TO 1 EACH	521.3112 CULVERT PIPE CORRUGATED STEEL 12-INCH LF	521.3118 CULVERT PIPE CORRUGATED STEEL 18-INCH LF	522.2324 CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL CLASS HE-III 24X38-INCH LF	522.2624 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE HORIZONTAL ELLIPTICAL 24X38-INCH EACH	628.5505 POLYETHYLENE SHEETING SY	633.5200 MARKERS CULVERT END EACH	SPV.0090.01 CULVERT PIPE TEMPORARY HORIZONTAL ELLIPTICAL 38X60-INCH LF
9180-23-71															
0010	MC1	135+88	RT	--	–	7	–	--	–	–	–	–	442	–	92
	MC1	150+48	LT & RT	--	–	--	–	--	–	–	–	–	--	2	--
	MC2	135+88	LT	--	–	7	–	--	–	–	–	–	188	–	88
	MC2	138+80	LT	1	–	--	–	2	–	54	–	–	--	–	--
	MC3	135+70	RT	--	1	--	–	--	–	–	–	–	--	–	--
	MC1	1+42'R'	RT	--	–	--	–	--	–	–	64	2	--	–	--
PROJECT ID: 9180-23-71 TOTALS				1	1	14	–	2	–	54	64	2	630	2	180
9180-23-72															
0010	GB1	64+98	LT	1	–	--	2	--	26	–	–	–	--	–	--
	GB1	112+00	LT & RT	--	–	--	–	--	–	–	–	–	--	2	--
	GB1	114+00	LT & RT	--	–	--	–	--	–	–	–	–	--	2	--
PROJECT ID: 9180-23-72 TOTALS				1	–	--	2	--	26	–	–	–	--	4	--
TOTALS				2	1	14	2	2	26	54	64	2	630	6	180

CONCRETE CURB & GUTTER

CATEGORY	STAGE	STATION TO		STATION	OFFSET	416.0610* DRILLED TIE BARS EACH	601.0105 CONCRETE CURB TYPE A LF	601.0405 CONCRETE CURB & GUTTER 18-INCH TYPE A LF	601.0407 CONCRETE CURB & GUTTER 18-INCH TYPE D LF	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0452 CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE D LF	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	601.0600 CONCRETE CURB PEDESTRIAN LF	SPV.0090.02 CONCRETE CURB AND GUTTER HES 30-INCH TYPE D LF	COMMENTS
9180-23-71																
0010	MS1	1099+28	-	1100+66	LT & RT	–	–	–	--	–	165	–	--	–	–	CTH B/WILLOW LN
	MS1	1105+64	-	1106+33	RT	–	–	–	--	–	35	–	--	–	–	PEARL AVE
	MS1	1119+28	-	1119+93	LT	–	–	–	17	–	25	–	--	–	–	SUNSET AVE
	MS1	1120+68	-	1121+29	RT	–	–	–	--	–	30	–	--	18	–	E ZINGLER AVE
	GB1	132+89	-	134+00	RT	–	–	–	--	–	--	–	130	–	–	RUSCH RD
PROJECT ID: 9180-23-71 TOTALS						–	–	–	17	–	255	–	130	18	–	
9180-23-72																
0010	GB1	4+79	-	5+70	LT & RT	20	–	–	--	60	53	35	--	53	–	SAWYER ST
	GB1	9+77	-	10+62	LT & RT	–	–	–	--	–	110	–	--	53	–	ANDREW ST
	GB1	13+21	-	14+26	LT & RT	–	–	–	--	–	90	–	--	41	–	LINCOLN ST
	GB1	16+48	-	17+87	LT & RT	28	33	22	6	30	30	–	--	19	–	UNION ST
	GB1	26+48	-	26+94	LT	6	–	–	--	18	4	20	--	–	–	ELLIS ST
	GB1	32+33	-	33+02	LT & RT	–	–	–	--	–	16	30	--	–	–	FAIRVIEW AVE
	GB1	36+46	-	39+33	LT	58	–	–	--	174	--	–	--	–	–	
	GB1	40+15	-	40+83	LT	–	–	–	17	–	22	–	--	23	–	GREEN BAY CT
	GB1	50+24	-	50+53	LT	4	–	–	--	11	20	–	--	–	–	ARLINGTON ST
	GB1	53+32	-	54+58	LT & RT	7	–	–	--	20	60	–	--	–	–	WAUKECHON ST
	GB1	58+96	-	60+82	LT & RT	27	–	–	30	82	--	–	--	23	–	WOODLAWN DR
	GB1	64+60	-	65+42	LT & RT	–	–	–	--	–	70	–	--	–	–	MOUNTAIN BAY TRAIL
	GB1	75+58	-	75+97	LT & RT	–	–	–	22	–	10	–	--	–	–	EBERLEIN PARK RD
	--	21+92	-	26+48	LT & RT	–	–	–	58	–	200	–	--	–	575	RAILROAD CROSSING
PROJECT ID: 9180-23-72 TOTALS						150	33	22	133	395	685	85	--	212	575	
TOTALS						150	33	22	150	395	940	85	130	230	575	

*ADDITIONAL QUANTITIES SHOWN ELESWHERE

CONCRETE SIDEWALK AND CONCRETE DRIVEWAY ITEMS

CATEGORY	STAGE	STATION	TO	STATION	OFFSET	416.0160 CONCRETE DRIVEWAY 6-INCH SY	416.0260 CONCRETE DRIVEWAY HES 6-INCH SY	602.0415 CONCRETE SIDEWALK 6-INCH SF	602.0515 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF	602.0615 CURB RAMP DETECTABLE WARNING FIELD RADIAL NATURAL PATINA SF	COMMENTS
9180-23-71											
0010	MS1	1099+50	-	1100+82	LT & RT	–	–	1,002	50	–	CTH B/WILLOW LN
	MS1	1105+51	-	1106+50	RT	–	–	278	–	36	PEARL AVE
	MS1	1119+20	-	1120+07	LT	–	–	276	–	36	SUNSET AVE
	MS1	1120+52	-	1121+39	RT	–	–	269	10	18	E ZINGLER AVE
PROJECT ID: 9180-23-71 TOTALS						–	–	1,825	60	90	
9180-23-72											
0010	GB1	4+79	-	5+70	LT & RT	–	–	826	40	–	SAWYER ST
	GB1	9+77	-	10+62	LT & RT	–	–	800	40	–	ANDREW ST
	GB1	13+17	-	14+30	LT & RT	–	–	635	40	–	LINCOLN ST
	GB1	16+32	-	17+34	LT & RT	–	–	855	60	–	UNION ST
	GB1	26+45	-	27+03	LT	–	–	192	10	16	ELLIS ST
	GB1	32+20	-	33+10	LT & RT	–	–	939	30	–	FAIRVIEW AVE
	GB1	40+12	-	40+88	LT	–	–	301	20	–	GREEN BAY CT
	GB1	50+24	-	50+61	LT	–	–	196	–	23	ARLINGTON ST
	GB1	53+26	-	54+67	LT & RT	–	–	533	20	28	WAUKECHON ST
	GB1	58+91	-	60+91	LT & RT	–	–	838	50	38	WOODLAWN DR
	GB1	64+59	-	65+58	LT & RT	–	–	600	–	80	MOUNTAIN BAY TRAIL
	GB1	75+61	-	75+85	LT	–	–	200	10	–	EBERLEIN PARK RD
	–	21+91	-	26+62	LT & RT	30	120	4,645	48	–	RR CROSSING
PROJECT ID: 9180-23-72 CAT 0010 TOTALS						30	120	11,560	368	185	
9180-23-72											
0020	GB1	16+96	-	17+90	RT	35	–	200	–	–	UNION ST
	GB1	35+94	-	40+15	LT	200	–	1,455	–	–	
	GB1	48+78	-	50+24	RT	60	35	--	–	–	
	GB1	64+43	-	65+58	LT & RT	–	–	490	–	–	MOUNTAIN BAY TRAIL
PROJECT ID: 9180-23-72 CAT 0020 TOTALS						295	35	2,145	–	–	
PROJECT ID: 9180-23-72 TOTALS						325	155	13,705	368	185	
TOTALS						325	155	15,530	428	275	

CONCRETE BARRIER TEMPORARY ITEMS

CATEGORY	STAGE	STATION	TO	STATION	OFFSET	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED LF	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED LF
9180-23-71							
0010	MC2	133+85	-	138+66	LT	500	500
	MC3	133+85	-	138+66	RT	–	500
TOTALS						500	1,000

STORM SEWER STRUCTURES

CATEGORY	STAGE	STATION	OFFSET	204.0280* SEALING PIPES EACH	608.0412 STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH LF	611.0530 MANHOLE COVERS TYPE J EACH	611.0612 INLET COVERS TYPE C EACH	611.0651 INLET COVERS TYPE S EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.3003 INLETS 3-FT DIAMETER EACH	SPV.0060.04 INLET COVERS TYPE HD EACH
9180-23-72											
0010	GB1	4+91	RT	–	–	–	--	–	--	–	1
	GB1	4+92	LT	–	–	–	--	1	--	–	--
	GB1	5+51	LT	–	–	–	--	1	--	–	--
	–	22+98	RT	1	–	1	--	–	1	–	--
	–	23+07	LT	–	50	–	1	–	--	1	--
	GB1	26+46	LT	–	–	–	--	–	--	–	1
	GB1	50+47	LT	–	–	–	--	–	--	–	1
TOTALS				1	50	1	1	2	1	1	3

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

ADJUSTING & RECONSTRUCTING ITEMS

CATEGORY	STAGE	STATION	TO	STATION	OFFSET	204.0250 ABANDONING MANHOLES EACH	611.8110 ADJUSTING MANHOLE COVERS EACH	611.8115 ADJUSTING INLET COVERS EACH	SPV.0060.05 RECONSTRUCTING SANITARY SEWER MANHOLES EACH	SPV.0060.06 ADJUSTING SANITARY MANHOLE COVERS EACH	SPV.0060.07 ADJUSTING WATER VALVE BOXES EACH	COMMENTS
9180-23-71												
0010	MS1	1100+00	-	1121+37	LT & RT	–	15	–	–	--	–	
PROJECT ID: 9180-23-71 CAT 0010 TOTALS						–	15	–	–	--	–	
0030	MS1	1099+50	-	1121+37	LT & RT	–	–	–	–	9	9	
PROJECT ID: 9180-23-71 CAT 0030 TOTALS						–	–	–	–	9	9	
PROJECT ID: 9180-23-71 TOTALS						–	15	–	–	9	9	
9180-23-72												
0010	GB1	1+85	-	22+10	LT & RT	–	–	4	–	--	–	
	GB1	26+40	-	51+80	LT	–	–	2	–	--	–	
	GB2	1+85	-	22+10	LT & RT	–	5	–	–	--	–	
	GB2	26+40	-	51+80	LT & RT	–	3	–	–	--	–	
	GB3	1+85	-	22+10	RT	–	8	–	–	--	–	
	GB3	26+40	-	51+80	RT	–	1	–	–	--	–	
	GB3	51+80	-	116+47	RT	–	2	–	–	--	–	
	GB4	1+85	-	22+10	LT	–	2	–	–	--	–	
	GB4	26+40	-	51+80	LT	–	2	–	–	--	–	
	–	22+10	-	26+40	LT & RT	1	1	–	–	--	–	RAILROAD CROSSING
PROJECT ID: 9180-23-72 CAT 0010 TOTALS						1	24	6	–	--	–	
0030	GB2	1+85	-	22+10	LT & RT	–	–	–	–	8	5	
	GB2	26+40	-	51+80	LT & RT	–	–	–	–	--	2	
	GB3	26+40	-	51+80	RT	–	–	–	–	4	5	
	GB4	1+85	-	22+10	LT	–	–	–	–	--	7	
	GB4	26+40	-	51+80	LT	–	–	–	–	10	11	
	–	22+10	-	26+40	LT & RT	–	–	–	2	1	9	RAILROAD CROSSING
PROJECT ID: 9180-23-72 CAT 0030 TOTALS						–	–	–	2	23	39	
PROJECT ID: 9180-23-72 TOTALS						1	24	6	2	23	39	
TOTALS						1	39	6	2	32	48	

GUARDRAIL ITEMS

CATEGORY	STAGE	STATION	TO	STATION	OFFSET	614.0920 SALVAGED RAIL LF	614.0925 SALVAGED GUARDRAIL END TREATMENTS EACH	614.0950 REPLACING GUARDRAIL POSTS AND BLOCKS EACH	614.0951 REPLACING GUARDRAIL RAIL AND HARDWARE LF
9180-23-71									
0010	MC1	135+81	-	136+15	RT	–	--	10	37.5
	MC2	134+98	-	137+93	LT	200	2	–	--
	MC3	134+89	-	138+20	RT	300	2	–	--
TOTALS						500	4	10	37.5

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LANDMARK REFERENCE MONUMENTS

CATEGORY	LOCATION	621.0100 LANDMARK REFERENCE MONUMENTS EACH	SPV.0060.01 REESTABLISH SECTION CORNER MONUMENTS EACH
9180-23-71			
0010	WEST 1/2 OF SEC 6, T26N, R16E	4	1
	NORTHWEST 1/4 OF SEC 6, T26N, R16E	4	1
	NORTH 1/2 OF SEC 33, T27N, R16E	4	1
PROJECT ID: 9180-23-71 TOTALS		12	3
9180-23-72			
0010	NORTH 1/2 OF SEC 31, T27N, R16E	4	1
	NORTHEAST OF SEC 31, T27N,R16E	4	1
	NORTH 1/2 OF SEC 32, T27N, R16E	4	1
	NORTHEAST OF SEC 32, T27N,R16E	4	1
PROJECT ID: 9180-23-72 TOTALS		16	4
TOTALS		28	7

WATER ITEMS

CATEGORY	STAGE	STATION	TO	STATION	OFFSET	624.0100 WATER MGAL	631.0300 SOD WATER MGAL	COMMENTS
9180-23-71								
0010	MS1	1099+25	-	1100+82	LT & RT	--	4	CTH B/WILLOW LN
	MS1	1105+51	-	1106+49	RT	--	1	PEARL AVE
	MS1	1119+20	-	1120+07	LT	--	1	SUNSET AVE
	MS1	1120+52	-	1121+39	RT	--	1	E ZINGLER AVE
	MC1	135+70	-	136+18	RT	2	--	FOR COMPACTION OF BASE AGGREGATE DENSE
	MC2	135+00	-	139+00	LT	4	--	FOR COMPACTION OF BASE AGGREGATE DENSE
	MC3	134+00	-	139+75	RT	4	--	FOR COMPACTION OF BASE AGGREGATE DENSE
	MC4	135+70	-	136+18	LT	2	--	FOR COMPACTION OF BASE AGGREGATE DENSE
	--	0+90'R'	-	2+00'R'	RT	1	--	FOR COMPACTION OF BASE AGGREGATE DENSE
PROJECT ID: 9180-23-71 TOTALS						13	7	
9180-23-72								
0010	GB1	4+79	-	5+70	LT & RT	--	1	SAWYER ST
	GB1	9+77	-	10+56	LT & RT	--	1	ANDREW ST
	GB1	13+17	-	14+30	LT & RT	--	1	LINCOLN ST
	GB1	16+32	-	17+34	LT & RT	--	2	UNION ST
	GB1	25+80	-	27+03	LT	--	1	ELLIS ST
	GB1	32+20	-	33+25	LT & RT	--	1	FAIRVIEW AVE
	GB1	50+27	-	50+61	LT & RT	--	1	ARLINGTON ST
	GB1	53+33	-	54+67	LT & RT	--	1	WAUKECHON ST
	GB1	58+99	-	60+91	LT & RT	--	2	WOODLAWN DR
	GB1	64+40	-	65+75	LT & RT	--	4	MOUNTAIN BAY TRAIL
	GB1	75+61	-	75+85	LT	--	1	EBERLEIN PARK RD
	--	22+10	-	26+40	LT & RT	19	5	RAILROAD CROSSING
PROJECT ID: 9180-23-72 TOTALS						19	21	
TOTALS						32	28	

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MONUMENT ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0060.02 RESEARCH AND LOCATE EXISTING LAND PARCEL MONUMENTS EACH	SPV.0060.03 VERIFY AND REPLACE EXISTING LAND PARCEL MONUMENTS EACH	COMMENTS
9180-23-71							
0010	1105+64	-	1106+33	RT	2	2	PEARL AVE
	1119+28	-	1119+93	LT	2	2	SUNSET AVE
	1120+68	-	1121+29	RT	2	2	ZINGLER AVE
	135+24	-	139+13	LT & RT	10	10	BOX CULVERT
PROJECT ID: 9180-23-71 TOTALS					16	16	
9180-23-72							
0010	4+75	-	5+75	LT & RT	8	8	SAWYER ST
	9+75	-	10+75	LT & RT	7	7	ANDREW ST
	13+00	-	14+25	LT & RT	8	8	LINCOLN ST
	16+00	-	17+40	LT & RT	6	6	UNION ST
	22+10	-	26+40	LT & RT	14	14	RAILROAD CROSSING
	26+40	-	27+00	LT	4	4	ELLIS ST
	32+20	-	33+25	LT & RT	7	7	FAIRVIEW AVE
	36+00	-	41+00	LT	5	5	GREEN BAY CT
	49+85	-	50+30	LT	2	2	ARLINGTON ST
	53+25	-	54+67	LT & RT	7	7	WAUKECHON ST
	59+75	-	61+00	LT & RT	5	5	WOODLAWN DR
	64+62	-	66+00	LT & RT	7	7	MOUNTAIN BAY TRAIL
PROJECT ID: 9180-23-72 TOTALS					80	80	
TOTALS					96	96	

EROSION CONTROL ITEMS

CATEGORY	STAGE	STATION	TO	STATION	OFFSET	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.2004 EROSION MAT CLASS I TYPE B SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH	SPV.0090.03 HEAVY DUTY SILT FENCE LF	COMMENTS
9180-23-71														
0010	MS1	1099+25	-	1100+82	LT & RT	–	--	–	160	–	–	–	–	CTH B / WILLOW LN
	MS1	1105+51	-	1106+49	RT	–	--	–	45	–	–	–	–	PEARL AVE
	MS1	1119+20	-	1120+07	LT	–	--	–	35	–	–	–	–	SUNSET AVE
	MS1	1120+52	-	1121+39	RT	–	--	–	30	–	–	–	–	ZINGLER AVE
	GB1	132+89	-	134+00	RT	–	--	–	70	–	3	–	–	RUSCH RD
	MC1	135+25	-	136+75	RT	170	170	–	225	13	–	–	–	BOX CULVERT
	MC2	134+75	-	139+25	LT	300	300	190	1,455	13	3	36	–	BOX CULVERT
	MC3	134+00	-	139+75	RT	380	380	235	1,940	75	–	36	–	BOX CULVERT
	MC4	135+50	-	136+25	LT	–	--	–	295	–		–	–	BOX CULVERT
	--	0+90'R'	-	2+00'R'	RT	165	165	–	170	13	10	–	–	RUSCH RD
				UNDISTRIBUTED		250	250	100	1,100	28	4	18	100	
PROJECT ID: 9180-23-71 TOTALS						1,265	1,265	525	5,525	142	20	90	100	
9180-23-72														
0010	GB1	4+79	-	5+70	LT & RT	–	--	–	35	–	–	–	–	SAWYER ST
	GB1	9+77	-	10+56	LT & RT	–	--	–	30	–	–	–	–	ANDREW ST
	GB1	13+17	-	14+30	LT & RT	–	--	–	55	–	–	–	–	LINCOLN ST
	GB1	16+32	-	17+34	LT & RT	–	--	–	80	–	–	–	–	UNION ST
	GB1	25+80	-	27+03	LT	–	--	–	5	–	–	–	–	ELLIS ST
	GB1	32+20	-	33+25	LT & RT	–	--	–	30	–	–	–	–	FAIRVIEW AVE
	GB1	50+27	-	50+61	LT	–	--	–	20	–	–	–	–	ARLINGTON ST
	GB1	53+33	-	54+67	LT & RT	–	--	–	55	–	–	–	–	WAUKECHON ST
	GB1	58+99	-	60+91	LT & RT	–	--	–	80	–	–	–	–	WOODLAWN DR
	GB1	64+40	-	65+75	LT & RT	–	--	–	185	50	1	–	–	MOUNTAIN BAY TRAIL
	GB1	75+61	-	75+85	LT	–	--	–	35	–	–	–	–	EBERLEIN PARK DR
	--	22+10	-	26+40	LT & RT	290	290	–	235	–	–	–	–	RR CROSSING
				UNDISTRIBUTED		70	70	–	205	13	1	–	–	
PROJECT ID: 9180-23-72 TOTALS						360	360	–	1,050	63	2	–	–	
TOTALS						1,625	1,625	525	6,575	205	22	90	100	

EROSION CONTROL MOBILIZATION

CATEGORY	LOCATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
9180-23-71			
0010	PROJECT	6	3
PROJECT ID: 9180-23-71 TOTALS		6	3
9180-23-72			
0010	PROJECT	4	2
PROJECT ID: 9180-23-72 TOTALS		4	2
TOTALS		10	5

INLET PROTECTION

CATEGORY	STAGE	STATION	TO	STATION	OFFSET	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH
9180-23-71							
0010	MS1	1089+67	-	1100+00	LT & RT	4	1
	MS1	1100+00	-	11121+29	LT & RT	–	27
		UNDISTRIBUTED				1	7
PROJECT ID: 9180-23-71 SUBTOTALS						5	35
9180-23-72							
0010	GB1	1+85	-	22+10	LT & RT	–	20
	GB1	26+40	-	51+80	LT & RT	–	17
	GB1	51+80	-	116+47	LT & RT	–	3
		UNDISTRIBUTED				–	10
PROJECT ID: 9180-23-72 SUBTOTALS						–	50
TOTALS						5	85

RESTORATION ITEMS

CATEGORY	STAGE	STATION TO		STATION	OFFSET	625.0100 TOPSOIL SY	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0140 SEEDING MIXTURE NO. 40 LB	SPV.0030.01 FERTILIZER FOR LAWN TYPE TURF CWT	SPV.0085.01 SEEDING, WET MEADOW AND SHALLOW MARSH MIX LB	SPV.0180.01 PREPARING TOPSOIL FOR LAWN TYPE TURF SY	COMMENTS
9180-23-71													
0010	MS1	1099+25	-	1100+82	LT & RT	160	–	--	3.0	0.10	–	160	CTH B / WILLOW LN
	MS1	1105+51	-	1106+49	RT	45	–	--	1.0	0.03	–	45	PEARL AVE
	MS1	1119+20	-	1120+07	LT	35	–	--	1.0	0.02	–	35	SUNSET AVE
	MS1	1120+52	-	1121+39	RT	30	–	--	1.0	0.02	–	30	ZINGLER AVE
	GB1	132+89	-	134+00	RT	70	0.1	0.5	–	–	–	–	RUSCH RD
	MC1	135+25	-	136+75	RT	225	0.1	0.5	–	–	–	–	BOX CULVERT
	MC2	134+75	-	139+25	LT	1,645	0.1	1.5	17.0	0.60	0.10	950	BOX CULVERT
	MC3	134+00	-	139+75	RT	2,175	0.2	4.5	–	–	1.66	–	BOX CULVERT
	MC4	135+50	-	136+25	LT	295	0.1	0.5	–	–	0.40	–	BOX CULVERT
	–	0+90'R'	-	2+00'R'	RT	170	0.1	0.5	–	–	0.10	–	RUSCH RD
				UNDISTRIBUTED		1,200	0.3	2.0	5.0	0.23	0.75	305	
PROJECT ID: 9180-23-71 TOTALS						6,050	1.0	10.0	28.0	1.0	3.0	1,525	
9180-23-72													
0010	GB1	4+79	-	5+70	LT & RT	35	–	--	0.5	0.02	–	35	SAWYER ST
	GB1	9+77	-	10+56	LT & RT	30	–	--	0.5	0.02	–	30	ANDREW ST
	GB1	13+17	-	14+30	LT & RT	55	–	--	1.0	0.03	–	55	LINCOLN ST
	GB1	16+32	-	17+34	LT & RT	80	–	--	1.5	0.05	–	80	UNION ST
	GB1	25+80	-	27+03	LT	5	–	--	0.5	0.00	–	5	ELLIS ST
	GB1	32+20	-	33+25	LT & RT	30	–	--	0.5	0.02	–	30	FAIRVIEW AVE
	GB1	50+27	-	50+61	LT	20	–	--	0.5	0.01	–	20	ARLINGTON ST
	GB1	53+33	-	54+67	LT & RT	55	–	--	1.0	0.03	–	55	WAUKECHON ST
	GB1	58+99	-	60+91	LT & RT	80	–	--	1.5	0.05	–	80	WOODLAWN DR
	GB1	64+40	-	65+75	LT & RT	185	–	--	3.5	0.12	–	185	MOUNTAIN BAY TRAIL
	GB1	75+61	-	75+85	LT	35	–	--	1.0	0.02	–	35	EBERLEIN PARK DR
	–	22+10	-	26+40	LT & RT	235	–	--	4.5	0.15	–	235	RR CROSSING
				UNDISTRIBUTED		205	–	--	3.5	0.08	–	205	
PROJECT ID: 9180-23-72 TOTALS						1,050	–	--	20.0	0.60	–	1,050	
TOTALS						7,100	1.0	10.0	48.0	1.60	3.0	2,575	

TYPE II SIGNS AND SUPPORTS

CATEGORY	SIGN NUMBER	SIGN CODE	SIGN DIMENSION W X H IN		IN	DESCRIPTION	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	634.0620 POSTS WOOD 4X6-INCH X 20-FT EACH	634.0814 POSTS TUBULAR STEEL 2X2-INCH X 14-FT EACH	634.0816 POSTS TUBULAR STEEL 2X2-INCH X 16-FT EACH	634.0818 POSTS TUBULAR STEEL 2X2-INCH X 18-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	COMMENTS
9180-23-71																					
0010																					
	2-1	J13-1	--	X	--	CTH B ARROW	--	--	--	--	--	--	--	--	--	--	1	--	--	1	
	6-1	R1-1	--	X	--	STOP	--	--	--	--	--	--	--	--	--	--	1	--	--	1	
	29-1	R1-1	--	X	--	STOP	--	--	--	--	--	--	--	--	--	--	1	--	--	1	
PROJECT ID: 9180-23-71 TOTALS							--	--	--	--	--	--	--	--	--	--	3	--	--	3	
9180-23-72																					
0010	7-1	--	--	X	--	NO PARKING	--	--	--	--	--	--	--	--	--	--	--	1	1	--	
	7-2	JV	24	X	60	SOUTH 47/55	--	--	--	--	--	--	1	10.00	--	--	--	1	1	--	MOUNT ON 7-3, SIGN BOX OUT REQ'D
	7-3	R7-1-D	18	X	24	NO PARKING ANY TIME	--	--	--	--	--	--	--	3.00	--	--	--	1	--	--	MOUNT ON SAME POST AS 7-2
	7-4	JV	24	X	81	NORTH 47/55 ARROW	--	--	--	--	--	--	1	13.50	--	--	--	1	1	--	SIGN BOX OUT REQ'D
	7-5	D4-1	30	X	24	PARKING ARROW	--	--	--	--	1	--	--	5.00	--	--	--	1	--	--	SIGN BOX OUT REQ'D
	7-6	JV	24	X	60	NORTH 22/BUS 29	--	--	--	--	--	--	--	10.00	--	--	--	--	--	--	MOUNT ON LIGHT POLE
	7-7	R7-1-D	18	X	24	NO PARKING ANY TIME	--	--	--	--	--	--	--	3.00	--	--	--	--	--	--	MOUNT ON LIGHT POLE
	7-8	--	--	X	--	NORTH 22	--	--	--	--	--	--	--	--	--	--	--	1	--	--	
	7-9	--	--	X	--	NO PARKING	--	--	--	--	--	--	--	--	--	--	--	1	--	--	
	8-1	J2-1	24	X	57	SOUTH 22 ARROW	--	--	--	--	--	1	--	9.50	--	--	--	1	1	--	SIGN BOX OUT REQ'D
	8-2	R6-2-R	24	X	30	ONE WAY - R	--	--	--	--	--	1	--	5.00	--	--	--	1	1	--	MOUNT ON SAME POST AS 8-3
	8-3	R6-2-L	24	X	30	ONE WAY - L	--	--	--	--	--	--	--	5.00	--	--	--	1	--	--	MOUNT ON SAME POST AS 8-2
	8-4	R2-1	24	X	30	SPEED LIMIT 25	--	--	--	--	1	--	--	5.00	--	--	--	--	--	--	SIGN BOX OUT REQ'D
	8-5	R1-1	30	X	30	STOP	--	--	--	--	1	--	--	5.18	--	--	--	1	1	--	SIGN BOX OUT REQ'D
	8-6	--	--	X	--	NO PARKING	--	--	--	--	--	--	--	--	--	--	--	1	--	--	
	8-7	R7-1-D	18	X	24	NO PARKING ANY TIME	--	--	--	--	--	--	--	3.00	--	--	--	--	--	--	MOUNT ON LIGHT POLE
	8-8	R2-1	24	X	30	SPEED LIMIT 25	--	--	--	--	1	--	--	5.00	--	--	--	--	--	--	SIGN BOX OUT REQ'D
	8-9	--	--	X	--	NO PARKING	--	--	--	--	--	--	--	--	--	--	--	1	--	--	
	8-10	R7-1-D	18	X	24	NO PARKING ANY TIME	--	--	--	--	--	--	--	3.00	--	--	--	--	--	--	MOUNT ON LIGHT POLE
	8-11	R1-1	30	X	30	STOP	--	--	--	--	1	--	--	5.18	--	--	--	1	1	--	
	9-1	R1-1	30	X	30	STOP	--	--	--	--	1	--	--	5.18	--	--	--	1	1	--	
	9-2	R2-1	24		30	SPEED LIMIT 25	--	--	--	--	--	--	--	5.00	--	--	--	1	1	--	MOUNT ON LIGHT POLE
	9-3	--	--	X	--	22/BUS 29/47/55	--	--	--	--	--	--	--	--	--	--	--	1	1	--	
	9-4	--	--	X	--	NO PARKING	--	--	--	--	--	--	--	--	--	--	--	1	--	--	
	9-5	R7-1-D	18	X	24	NO PARKING ANY TIME	--	--	--	--	1	--	--	3.00	--	--	--	--	--	--	
	9-6	JV	24	X	60	NORTH47/55	--	--	--	--	--	--	1	10.00	--	--	--	--	--	--	
	9-7	--	--	X	--	22/BUS 29/47/55	--	--	--	--	--	--	--	--	--	--	--	1	1	--	
	9-8	JV	24	X	72	SOUTH 22/BUS 29	--	--	--	--	--	--	1	12.00	--	--	--	--	--	--	SIGN BOX OUT REQ'D
	9-9	R1-1F	30	X	30	STOP - FOLDING	--	--	--	--	--	--	--	--	5.18	--	--	1	--	--	MOUNT ON SIGNAL POLE
	9-10	R1-1F	30	X	30	STOP - FOLDING	--	--	--	--	--	--	--	--	5.18	--	--	1	--	--	MOUNT ON SIGNAL POLE
	9-11	--	--	X	--	NO PARKING	--	--	--	--	--	--	--	--	--	--	--	1	--	--	
	9-12	R2-1	24	X	30	SPEED LIMIT 25	--	--	--	--	--	--	--	5.00	--	--	--	1	--	--	MOUNT ON LIGHT POLE
	9-13	R7-1-D	18	X	24	NO PARKING ANY TIME	--	--	--	--	--	--	--	3.00	--	--	--	--	--	--	MOUNT ON LIGHT POLE
	9-14	R1-1F	30	X	30	STOP - FOLDING	--	--	--	--	--	--	--	--	5.18	--	--	--	--	--	MOUNT ON SIGNAL POLE
	9-15	R1-1F	30	X	30	STOP - FOLDING	--	--	--	--	--	--	--	--	5.18	--	--	--	--	--	MOUNT ON SIGNAL POLE
	10-1	R1-1	30	X	30	STOP	--	--	--	--	1	--	--	5.18	--	--	--	1	1	--	
	10-2	R1-1	30	X	30	STOP	--	--	--	--	1	--	--	5.18	--	--	--	1	1	--	SIGN BOX OUT REQ'D
	10-3	--	--	X	--	NO PARKING	--	--	--	--	--	--	--	--	--	--	--	1	--	--	
	10-4	R7-1-D	18	X	24	NO PARKING ANY TIME	--	--	--	--	--	--	--	3.00	--	--	--	--	--	--	MOUNT ON LIGHT POLE
	10-5	R2-1	24	X	30	SPEED LIMIT 25	--	--	--	--	--	1	--	5.00	--	--	--	--	--	--	MOUNT ON SAME POST AS 10-6
	10-6	JV	24	X	72	NORTH 55/BUS 29	--	--	--	--	--	--	--	12.00	--	--	--	--	--	--	MOUNT ON SAME POST AS 10-5
	10-7	--	--	X	--	22/BUS 29/47/55	--	--	--	--	--	--	--	--	--	--	--	1	1	--	
	10-8	--	--	X	--	NO PARKING	--	--	--	--	--	--	--	--	--	--	--	1	--	--	
	10-9	R7-1-D	18	X	24	NO PARKING ANY TIME	--	--	--	--	--	--	--	3.00	--	--	--	--	--	--	MOUNT ON LIGHT POLE
	10-10	R2-1	24	X	30	SPEED LIMIT 25	--	--	--	--	1	--	--	5.00	--	--	--	--	--	--	
	10-11	JV	24	X	60	SOUTH 47/55	--	--	--	--	--	--	1	10.00	--	--	--	--	--	--	
	10-12	R1-1	30	X	30	STOP	--	--	--	--	1	--	--	5.18	--	--	--	1	1	--	
	10-13	R1-1	30	X	30	STOP	--	--	--	--	1	--	--	5.18	--	--	--	1	1	--	
	10-14	--	--	X	--	NO PARKING	--	--	--	--	--	--	--	--	--	--	--	1	--	--	
	10-15	R7-1-D	18	X	24	NO PARKING ANY TIME	--	--	--	--	--	--	--	3.00	--	--	--	--	--	--	MOUNT ON LIGHT POLE
	10-16	--	--	X	--	RAILROAD CROSSING	--	--	--	--	--	--	--	--	--	--	--	1	1	--	
	10-17	--	--	X	--	47/55	--	--	--	--	--	--	--	--	--	--	--	1	--	--	
	10-18	--	--	X	--	NO PARKING	--	--	--	--	--	--	--	--	--	--	--	1	--	--	
	10-19	R7-1-D	18	X	24	NO PARKING ANY TIME	--	--	--	--	--	--	--	3.00	--	--	--	--	--	--	MOUNT ON LIGHT POLE
	11-1	W10-1	36	X	36	RR CROSSING WARNING	--	--	--	--	--	1	--	--	--	7.07	--	--	--	--	SIGN BOX OUT REQ'D
PROJECT ID: 9180-23-72 SUBTOTALS							--	--	--	--	12	4	5	198.26	20.72	7.07	--	34	17	--	

TYPE II SIGNS AND SUPPORTS (CONTINUED)

CATEGORY	SIGN	SIGN CODE	SIGN DIMENSION W X H IN	X	IN	DESCRIPTION	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	634.0620 POSTS WOOD 4X6-INCH X 20-FT EACH	634.0814 POSTS TUBULAR STEEL 2X2-INCH X 14-FT EACH	634.0816 POSTS TUBULAR STEEL 2X2-INCH X 16-FT EACH	634.0818 POSTS TUBULAR STEEL 2X2-INCH X 18-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	COMMENTS
9180-23-72																					
0010	11-2	R7-1-D	18	X	24	NO PARKING ANY TIME	–	–	--	–	–	–	–	3.00	–	--	–	–	--	–	MOUNT ON LIGHT POLE
	11-3	–	–	X	--	NO PARKING	–	–	--	–	–	–	–	–	–	--	–	1	--	–	
	11-4	W10-1	36	X	36	RR CROSSING WARNING	–	–	--	–	–	1	–	–	–	7.07	–	–	--	–	SIGN BOX OUT REQ'D
	11-5	R1-1	30	X	30	STOP	–	–	--	–	1	–	–	5.18	–	--	–	1	1	–	
	11-6	R2-1	24	X	30	SPEED LIMIT 25	–	–	--	–	–	–	–	5.00	–	--	–	1	1	–	MOUNT ON LIGHT POLE
	11-7	R2-1	24	X	30	SPEED LIMIT 25	–	–	--	–	–	–	–	5.00	–	--	–	1	--	–	MOUNT ON LIGHT POLE
	12-1	–	–	X	--	RR CROSSING WARNING	–	–	--	–	–	–	–	–	–	--	–	1	1	–	
	12-2	–	–	X	--	NO PARKING	–	–	--	–	–	–	–	–	–	--	–	1	--	–	
	12-3	R7-1-D	18	X	24	NO PARKING ANY TIME	–	–	--	–	–	–	–	3.00	–	--	–	–	--	–	MOUNT ON LIGHT POLE
	12-4	R4-7	24	X	30	KEEP LEFT/RIGHT	–	–	--	–	1	–	–	5.00	–	--	–	1	1	–	SIGN BOX OUT REQ'D
	12-5	R6-2-R	24	X	30	ONE WAY - R	–	–	--	–	1	–	–	5.00	–	--	–	1	1	–	SIGN BOX OUT REQ'D
	12-6	JV	24	X	60	NORTH 47/55	–	–	--	–	–	–	1	10.00	–	--	–	–	--	–	
	12-7	R6-2-R	24	X	30	ONE WAY - R	–	–	--	–	1	–	–	5.00	–	--	–	1	1	–	SIGN BOX OUT REQ'D
	12-8	R7-1-D	18	X	24	NO PARKING ANY TIME	–	–	--	–	–	–	–	3.00	–	--	–	–	--	–	MOUNT ON LIGHT POLE
	12-9	–	–	X	--	NO PARKING	–	–	--	–	–	–	–	–	–	--	–	1	1	–	
	12-10	–	–	X	--	22/BUS 29/47/55	–	–	--	–	–	–	–	–	–	--	–	1	1	–	
	12-11	JV	24	X	72	SOUTH 22/BUS 29	–	–	--	–	–	–	1	12.00	–	--	–	–	--	–	SIGN BOX OUT REQ'D
	12-12	R4-7	24	X	30	KEEP LEFT/RIGHT	–	–	--	–	–	–	–	5.00	–	--	–	1	--	–	MOUNT ON SIGNAL POLE
	12-13	R1-1F	30	X	30	STOP - FOLDING	–	–	--	–	–	–	–	–	5.18	--	–	1	--	–	MOUNT ON SIGNAL POLE
	12-14	R1-1F	30	X	30	STOP - FOLDING	–	–	--	–	–	–	–	–	5.18	--	–	1	--	–	MOUNT ON SIGNAL POLE
	12-15	R4-7	24	X	30	KEEP LEFT/RIGHT	–	–	--	–	–	–	–	5.00	–	--	–	1	--	–	MOUNT ON SIGNAL POLE
	12-16	R2-1	24	X	30	SPEED LIMIT 25	–	–	--	–	–	–	–	5.00	–	--	–	1	--	–	MOUNT ON LIGHT POLE
	12-17	R1-1F	30	X	30	STOP - FOLDING	–	–	--	–	–	–	–	–	5.18	--	–	–	--	–	MOUNT ON SIGNAL POLE
	12-18	R1-1F	30	X	30	STOP - FOLDING	–	–	--	–	–	–	–	–	5.18	--	–	–	--	–	MOUNT ON SIGNAL POLE
	12-19	R1-1F	30	X	30	STOP - FOLDING	–	–	--	–	–	–	–	–	5.18	--	–	–	--	–	MOUNT ON SIGNAL POLE
	12-20	R1-1F	30	X	30	STOP - FOLDING	–	–	--	–	–	–	–	–	5.18	--	–	–	--	–	MOUNT ON SIGNAL POLE
	13-1	R7-1-D	18	X	24	NO PARKING ANY TIME	–	–	--	–	–	–	–	3.00	–	--	–	–	--	–	MOUNT ON LIGHT POLE
	13-2	–	–	X	--	NO PARKING	–	–	--	–	–	–	–	–	–	--	–	1	--	–	
	13-3	R6-2-R	24	X	30	ONE WAY - R	–	–	--	–	1	–	–	5.00	–	--	–	–	--	–	SIGN BOX OUT REQ'D
	13-4	–	–	X	--	ONE WAY - R	–	–	--	–	–	–	–	–	–	--	–	1	1	–	
	13-5	–	–	X	--	47/55	–	–	--	–	–	–	–	–	–	--	–	1	--	–	
	13-6	JV	24	X	72	NORTH 22/BUS 29	–	–	--	–	–	–	–	12.00	–	--	–	–	--	–	MOUNT ON LIGHT POLE
	13-7	R4-7	24	X	30	KEEP LEFT/RIGHT	–	–	--	–	1	–	–	5.00	–	--	–	1	1	–	SIGN BOX OUT REQ'D
	13-8	JV	24	X	60	SOUTH 47/55	–	–	--	–	–	–	–	10.00	–	--	–	–	--	–	MOUNT ON LIGHT POLE
	13-9	R2-1	24	X	30	SPEED LIMIT 25	–	–	--	–	–	–	–	5.00	–	--	–	1	--	–	MOUNT ON LIGHT POLE
	13-10	R7-1-D	18	X	24	NO PARKING ANY TIME	–	–	--	–	–	–	–	3.00	–	--	–	–	--	–	MOUNT ON LIGHT POLE
	13-11	–	–	X	--	NO PARKING	–	–	--	–	–	–	–	–	–	--	–	1	--	–	
	13-12	–	–	X	--	NO PARKING	–	–	--	–	–	–	–	–	–	--	–	1	--	–	
	13-13	R7-1-D	18	X	24	NO PARKING ANY TIME	–	–	--	–	–	–	–	3.00	–	--	–	–	--	–	MOUNT ON LIGHT POLE
	13-14	R2-1	24	X	30	SPEED LIMIT 25	–	–	--	–	–	–	–	5.00	–	--	–	1	--	–	MOUNT ON LIGHT POLE
	14-1	R1-1	30	X	30	STOP	–	–	--	–	1	–	–	5.18	–	--	–	1	1	–	SIGN BOX OUT REQ'D
	14-2	R7-1-D	18	X	24	NO PARKING ANY TIME	–	–	--	–	–	–	–	3.00	–	--	–	–	--	–	MOUNT ON LIGHT POLE
	14-3	R2-1	24	X	30	SPEED LIMIT 25	–	–	--	–	–	–	–	5.00	–	--	–	1	--	–	MOUNT ON LIGHT POLE
	14-4	–	–	X	--	NO PARKING	–	–	--	–	–	–	–	–	–	--	–	1	--	–	
	14-5	R7-1-D	18	X	24	NO PARKING ANY TIME	–	–	--	–	–	–	–	3.00	–	--	–	–	--	–	MOUNT ON LIGHT POLE
	15-1	R2-1	24	X	30	SPEED LIMIT 25	–	–	--	–	–	–	–	5.00	–	--	–	1	--	–	MOUNT ON LIGHT POLE
	15-2	R2-1	24	X	30	SPEED LIMIT 25	–	–	--	–	–	–	–	5.00	–	--	–	1	--	–	MOUNT ON LIGHT POLE
	15-3	R1-1	30	X	30	STOP	–	–	--	–	1	–	–	5.18	–	--	–	1	1	–	
	15-4	–	–	X	--	NO PARKING	–	–	--	–	–	–	–	–	–	--	–	1	--	–	
	15-5	R7-1-D	18	X	24	NO PARKING ANY TIME	–	–	--	–	–	–	–	3.00	–	--	–	–	--	–	MOUNT ON LIGHT POLE
	15-6	JV	24	X	60	NORTH 47/55	–	–	--	–	–	–	–	10.00	–	--	–	–	--	–	MOUNT ON LIGHT POLE
	15-7	–	–	X	--	47/55	–	–	--	–	–	–	–	–	–	--	–	1	1	–	
	15-8	R4-7	24	X	30	KEEP LEFT/RIGHT	–	–	--	–	1	–	–	5.00	–	--	–	1	1	–	SIGN BOX OUT REQ'D
	16-1	–	–	X	--	NO LEFT TURN	–	–	--	–	–	–	–	–	–	--	–	1	1	–	
	16-2	R6-2-R	24	X	30	ONE WAY - R	–	–	--	–	1	–	–	5.00	–	--	–	–	--	–	SIGN BOX OUT REQ'D
	16-3	–	–	X	--	STOP/NO LEFT TURN	–	–	--	–	–	–	–	–	–	--	–	1	--	–	
	16-4	R6-2-R	24	X	30	ONE WAY - R	–	–	--	–	1	–	–	5.00	–	--	–	–	--	–	SIGN BOX OUT REQ'D
	16-5	JV	24	X	72	SOUTH 22/BUS 29	–	–	--	–	–	–	–	12.00	–	--	–	–	--	–	MOUNT ON LIGHT POLE
	16-6	–	–	X	--	22/BUS 29	–	–	--	–	–	–	–	–	–	--	–	1	--	–	
	16-7	R4-7	24	X	30	KEEP LEFT/RIGHT	–	–	--	–	1	–	–	5.00	–	--	–	1	1	–	SIGN BOX OUT REQ'D
	16-8	R1-1F	30	X	30	STOP - FOLDING	–	–	--	–	–	–	–	–	5.18	--	–	1	--	–	MOUNT ON SIGNAL POLE
	16-9	R2-1	24	X	30	SPEED LIMIT 25	–	–	--	–	–	–	–	5.00	–	--	–	1	--	–	MOUNT ON LIGHT POLE
	16-10	–	–	X	--	ONLY ARROWS	–	–	--	–	–	–	–	–	–	--	–	1	2	–	
	16-11	R3-8-RR	54	X	30	ONLY ARROWS	–	–	--	–	2	–	–	11.25	–	--	–	–	--	–	
	16-12	R1-1F	30	X	30	STOP - FOLDING	–	–	--	–	–	–	–	–	5.18	--	–	–	--	–	MOUNT ON SIGNAL POLE
PROJECT ID: 9180-23-72 SUBTOTALS							–	–	--	–	14	1	2	219.79	41.44	7.07	–	40	18	–	

TYPE II SIGNS AND SUPPORTS (CONTINUED)

CATEGORY	SIGN	SIGN CODE	SIGN DIMENSION W	X	H IN	DESCRIPTION	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	634.0620 POSTS WOOD 4X6-INCH X 20-FT EACH	634.0814 POSTS TUBULAR STEEL 2X2-INCH X 14-FT EACH	634.0816 POSTS TUBULAR STEEL 2X2-INCH X 16-FT EACH	634.0818 POSTS TUBULAR STEEL 2X2-INCH X 18-FT EACH	637.2210 SIGNS TYPE II REFLECTIVE H SF	637.2215 SIGNS TYPE II REFLECTIVE H FOLDING SF	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	COMMENTS
9180-23-72																					
0010	16-13	R1-1F	30	X	30	STOP - FOLDING	--	–	–	–	--	--	–	--	5.18	–	–	–	–	–	MOUNT ON SIGNAL POLE
	17-1	R1-1F	30	X	30	STOP - FOLDING	--	–	–	–	--	--	–	--	5.18	–	–	1	–	–	MOUNT ON SIGNAL POLE
	17-2	R1-1F	30	X	30	STOP - FOLDING	--	–	–	–	--	--	–	--	5.18	–	–	1	–	–	MOUNT ON SIGNAL POLE
	17-3	S16-9P	24	X	12	AHEAD	--	–	–	–	1	--	–	--	–	2.00	–	–	–	–	MOUNT ON SAME POST AS 17-4
	17-4	W11-2 (MOD)	30	X	30	PEDESTRIAN CROSSING	--	–	–	–	--	--	–	--	–	6.25	–	–	–	–	MOUNT ON 17-3 (COLOR YELLOW-GREEN)
	17-5	R2-1	24	X	30	SPEED LIMIT 25	--	–	–	–	1	--	–	5.00	–	–	–	1	–	–	MOUNT ON LIGHT POLE
	17-6	–	–	X	--	NO PARKING ANY TIME	--	–	–	–	--	--	–	--	–	–	–	1	1	–	
	17-7	R7-1-D	18	X	24	NO PARKING ANY TIME	--	–	–	–	--	--	–	3.00	–	–	–	–	–	–	MOUNT ON LIGHT POLE
	17-8	R1-1F	30	X	30	STOP - FOLDING	--	–	–	–	--	--	–	--	5.18	–	–	–	–	–	MOUNT ON SIGNAL POLE
	17-9	R1-1F	30	X	30	STOP - FOLDING	--	–	–	–	--	--	–	--	5.18	–	–	–	–	–	MOUNT ON SIGNAL POLE
	18-1	–	–	X	--	ONLY ARROWS	--	–	–	–	--	--	–	--	–	–	–	1	2	–	
	18-2	R-3-V	72	X	30	ONLY ARROWS	--	–	–	–	2	--	–	15.00	–	–	–	–	–	–	
	18-3	–	–	X	--	SPEED LIMIT 25	--	–	–	–	--	--	–	--	–	–	–	1	1	–	
	18-4	S16-7L	24	X	12	DOWN ARROW	--	–	–	–	--	--	–	--	–	2.00	–	–	–	–	MOUNT ON EXISTING SIGN POST
	18-5	–	–	X	--	STOP	1	–	–	–	--	--	–	--	–	–	1	–	1	1	MOUNT ON 18-6 AND 18-7
	18-6	–	–	X	--	E GREEN BAY ST	--	–	–	–	--	--	–	--	–	–	1	–	–	–	MOUNT ON 18-5 AND 18-7
	18-7	–	–	X	--	MILEAGE TO	--	–	–	–	--	--	–	--	–	–	1	–	–	–	MOUNT ON 18-5 AND 18-6
	18-8	S16-7L	24	X	12	DOWN ARROW	--	–	–	–	--	--	–	--	–	2.00	–	–	–	–	MOUNT ON EXISTING SIGN POST
	18-9	R1-1	30	X	30	STOP	1	–	–	–	--	--	–	5.18	–	–	–	1	1	–	
	18-10	–	–	X	--	STOP LIGHT AHEAD	--	–	–	–	--	--	–	--	–	–	–	1	1	–	
	18-11	W11-2 (MOD)	30	X	30	PEDESTRIAN CROSSING	--	1	–	–	--	--	–	--	–	6.25	–	–	–	–	MOUNT ON 18-12 (COLOR YELLOW-GREEN)
	18-12	S16-9P	24	X	12	AHEAD	--	–	–	–	--	--	–	--	–	2.00	–	–	–	–	MOUNT ON SAME POST AS 18-11
	19-1	–	–	X	--	22/BUS 29/47/55	--	–	–	–	--	--	–	--	–	–	–	1	1	–	
	19-2	J4-4	96	X	36	NORTH 22/BUS 29/SOUTH 47/ SOUTH 55	--	–	2	–	--	--	–	24.00	–	–	–	–	–	–	
	19-3	R4-7	24	X	30	KEEP LEFT/RIGHT	--	1	–	–	--	--	–	5.00	–	–	–	1	1	–	
	19-4	R2-1	30	X	36	SPEED LIMIT 25	--	1	–	–	--	--	–	7.50	–	–	–	1	1	–	
	19-5	R2-1	30	X	36	SPEED LIMIT 25	--	1	–	–	--	--	–	7.50	–	–	–	1	1	–	
	19-6	R4-7	24	X	30	KEEP LEFT/RIGHT	1	–	–	–	--	--	–	5.00	–	–	–	1	–	–	MOUNT ON SIGNAL POLE
	19-7	R1-1F	30	X	30	STOP - FOLDING	1	–	–	–	--	--	–	--	5.18	–	–	–	–	–	MOUNT ON SIGNAL POLE
	19-8	R1-1F	30	X	30	STOP - FOLDING	--	–	–	–	--	--	–	--	5.18	–	–	–	–	–	MOUNT ON SIGNAL POLE
	19-9	R1-1F	30	X	30	STOP - FOLDING	--	–	–	–	--	--	–	--	5.18	–	–	–	–	–	MOUNT ON SIGNAL POLE
	20-1	R4-7	24	X	30	KEEP LEFT/RIGHT	--	–	–	–	--	--	–	5.00	–	–	–	1	–	–	MOUNT ON SIGNAL POLE
	20-2	–	–	X	--	KEEP WISCONSIN CLEAN	--	–	–	–	--	--	–	--	–	–	–	1	1	–	
	20-3	R2-1	30	X	36	SPEED LIMIT 40	1	–	–	–	--	--	–	7.50	–	–	–	1	1	–	
	20-4	R4-7	24	X	30	KEEP LEFT/RIGHT	--	1	–	–	--	--	–	5.00	–	–	–	1	1	–	SIGN BOX OUT REQ'D
	20-5	W3-5	36	X	36	SPEED LIMIT 25 AHEAD	--	–	1	–	--	--	–	--	–	9.00	–	1	1	–	
	20-6	–	–	X	--	STOP FOR SCHOOL BUS LIGHTS	1	–	–	–	--	--	–	--	–	–	–	1	1	–	
	20-7	S3-1	36	X	36	SCHOOL BUS STOP AHEAD	--	–	1	–	--	--	–	9.00	–	–	–	–	–	–	
	20-8	R1-1F	30	X	30	STOP - FOLDING	--	–	–	–	--	--	–	--	5.18	–	–	–	–	–	MOUNT ON SIGNAL POLE
	21-1	R2-1	30	X	36	SPEED LIMIT 40	--	1	–	–	--	--	–	7.50	–	–	–	1	1	–	
	21-2	–	–	X	--	SPEED LIMIT 40	--	–	–	–	--	--	–	--	–	–	–	1	1	–	
	22-1	J1-1	24	X	39	JCT CTH HHH	--	1	–	–	--	--	–	6.50	–	–	–	1	1	–	
	23-1	R2-1	30	X	36	SPEED LIMIT 40	--	1	–	–	--	--	–	7.50	–	–	–	1	1	–	
	23-2	R2-1	30	X	36	SPEED LIMIT 40	--	1	–	–	--	--	–	7.50	–	–	–	1	1	–	
	23-3	J2-4	96	X	57	NORTH 22/BUS 29/SOUTH 47/SOUTH 55 ARROWS	--	–	1	1	--	--	–	38.00	–	–	–	1	2	–	
	24-1	–	–	X	--	22/BUS 29/47/55	--	–	–	–	--	--	–	--	–	–	–	1	1	–	
	24-2	J4-4	96	X	36	SOUTH 22/BUS 29/NORTH 47/NORTH 55	--	1	1	–	--	--	–	24.00	–	–	–	–	–	–	
	24-3	J3-4	96	X	57	NORTH 22/BUS 29/SOUTH 47/SOUTH 55 ARROWS	--	–	1	1	--	--	–	38.00	–	–	–	–	–	–	
	24-4	–	–	X	--	NORTH CTH HHH/BUS 29/SOUTH 47/SOUTH 55 ARROWS	--	–	–	–	--	--	–	--	–	–	–	1	2	–	
	24-5	J3-1	24	X	57	CTH HHH ARROW	1	–	–	–	--	--	–	9.50	–	–	–	–	–	–	MOUNT ON SIGNAL POLE
	24-6	R1-1F	36	X	36	STOP - FOLDING	--	–	–	–	--	--	–	--	7.46	–	–	–	–	–	MOUNT ON SIGNAL POLE
	24-7	R1-1F	36	X	36	STOP - FOLDING	--	–	–	–	--	--	–	--	7.46	–	–	–	–	–	MOUNT ON SIGNAL POLE
	25-1	R4-7	24	X	30	KEEP LEFT/RIGHT	--	–	–	–	--	--	–	5.00	–	–	–	1	–	–	MOUNT ON SIGNAL POLE
	25-2	–	–	X	--	SOUTH 22/BUS 29/NORTH 47/NORTH 55 ARROWS	--	–	–	–	--	--	–	--	–	–	–	1	2	–	
	25-3	J2-4	96	X	57	22/BUS 29/47/55 ARROWS	--	–	–	2	--	--	–	38.00	–	–	–	–	–	–	
	25-4	R1-1F	36	X	36	STOP - FOLDING	--	–	–	–	--	--	–	--	7.46	–	–	1	–	–	MOUNT ON SIGNAL POLE
	25-5	R1-1F	36	X	36	STOP - FOLDING	--	–	–	–	--	--	–	--	7.46	–	–	1	–	–	MOUNT ON SIGNAL POLE
	25-6	M1-5A	24	X	24	COUNTY HHH	--	–	–	–	--	--	–	4.00	–	–	–	1	–	–	MOUNT ON SIGNAL POLE
	25-7	J3-2	72	X	84	SOUTH 22/BUS 29 ARROWS	--	–	–	2	--	--	–	42.00	–	–	–	–	–	–	SIGN BOX OUT REQ'D
	25-8	J3-3	108	X	84	NORTH 47/NORTH 55/NORTH 22	--	–	–	2	--	--	–	63.00	–	–	–	–	–	–	SIGN BOX OUT REQ'D
	25-9	J3-2	48	X	57	SOUTH 22/CTH HHH ARROWS	--	1	–	–	--	--	–	19.00	–	–	–	–	–	–	
	25-10	R4-7	24	X	30	KEEP LEFT/RIGHT	--	–	–	–	--	--	–	5.00	–	–	–	1	–	–	MOUNT ON SIGNAL POLE
	25-11	JV	24	X	81	SOUTH 47/55 ARROW	--	–	–	–	--	--	–	13.50	–	–	–	–	–	–	MOUNT ON SIGNAL POLE
	25-12	–	–	X	--	SOUTH 47/SOUTH 55/CTH HHH	--	–	–	–	--	--	–	--	–	–	–	1	1	–	
	25-13	R1-1F	36	X	36	STOP - FOLDING	--	–	–	–	--	--	–	--	7.46	–	–	1	–	–	MOUNT ON SIGNAL POLE
	25-14	R1-1F	36	X	36	STOP - FOLDING	--	–	–	–	--	--	–	--	7.46	–	–	1	–	–	MOUNT ON SIGNAL POLE
	26-1	R2-1	36	X	48	SPEED LIMIT 45	--	–	1	–	--	--	–	12.00	–	–	–	1	1	–	
PROJECT ID: 9180-23-72 SUBTOTALS							7	11	8	8	4	--	–	443.68	91.38	29.50	3	37	30	1	
PROJECT ID: 9180-23-72 TOTALS							7	11	8	8	30	5	7	861.73	153.54	43.64	3	111	65	1	
TOTALS							7	11	8	8	30	5	7	861.73	153.54	43.64	6	111	65	4	

TRAFFIC CONTROL ITEMS

CATEGORY	STAGE	LOCATION	STAGE DURATION	643.0300 TRAFFIC CONTROL DRUMS		643.0420* TRAFFIC CONTROL BARRICADES TYPE III		643.0705* TRAFFIC CONTROL WARNING LIGHTS TYPE A		643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C		643.0800 TRAFFIC CONTROL ARROW BOARDS		643.0900* TRAFFIC CONTROL SIGNS		643.0910 TRAFFIC CONTROL COVERING SIGNS TYPE I	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II	643.1050 TRAFFIC CONTROL SIGNS PCMS		643.1070 TRAFFIC CONTROL CONES 42-INCH		643.5000 TRAFFIC CONTROL
			DAYS	NO.	DAY	NO.	DAY	NO.	DAY	NO.	DAY	NO.	DAY	NO.	DAY	EACH	EACH	NO.	DAY	NO.	DAY	EACH
9180-23-71																						
0010	–	PRIOR TO CONSTRUCTION	7	–	–	--	–	–	–	–	--	--	–	--	–	--	–	6	42	–	–	–
	MS1	1099+50 - 1121+39	20	29	580	--	–	–	–	–	--	--	–	5	100	--	–	--	–	–	–	–
	GB1	RUSCH RD SHOULDER CLOSURE	5	35	175	1	5	2	10	6	30	1	5	2	10	--	–	--	–	–	–	–
	GB2	116+47 - 156+82	5	51	253	4	20	8	40	6	30	2	10	12	60	--	–	--	–	134	670	–
	GB3	116+47 - 156+82	5	178	889	4	20	8	40	6	30	2	10	12	60	--	–	--	–	–	–	–
	GB4	116+47 - 156+82	5	178	889	4	20	8	40	6	30	2	10	12	60	--	–	--	–	–	–	–
	MC1	MURRAY CREEK BOX CULVERT	5	155	775	22	110	24	120	11	55	1	5	22	110	--	3	--	–	–	–	–
	MC2	MURRAY CREEK BOX CULVERT	30	185	5,550	2	60	4	120	13	390	1	30	14	420	--	–	--	–	–	–	–
	MC3	MURRAY CREEK BOX CULVERT	30	172	5,160	14	420	20	600	11	330	1	30	23	690	--	1	--	–	–	–	–
	MC4	MURRAY CREEK BOX CULVERT	5	200	1,000	8	40	12	60	13	65	1	5	15	75	--	–	--	–	–	–	–
		PROJECT	135	–	–	--	–	–	–	–	--	--	–	26	3,510	--	–	--	–	–	–	0.5
PROJECT ID: 9180-23-71 TOTALS					15,271		695		1,030		960		105		5,095	--	4		42		670	0.5
9180-23-72																						
0010	GB1	1+85 - 116+47	35	45	1,575	15	525	30	1,050	36	1,260	2	70	25	875	--	–	--	–	504	17,640	–
	GB2	1+85 - 116+47	30	50	1,500	20	600	40	1,200	–	--	2	60	43	1,290	--	–	--	–	930	27,905	–
	GB3	1+85 - 116+47	20	396	7,920	22	440	44	880	15	300	2	40	45	900	--	–	--	–	523	10,464	–
	GB4	1+85 - 116+47	20	339	6,789	22	440	44	880	15	300	2	40	55	1,100	--	–	--	–	465	9,309	–
	–	PRIOR TO DETOUR	7	–	–	--	–	–	–	–	--	--	–	--	–	--	–	5	35	–	–	–
	–	RAILROAD CROSSING DETOUR	19	–	–	10	190	20	380	–	--	--	–	524	9,956	8	13	--	–	–	–	–
		PROJECT	135	–	–	--	–	–	–	–	--	--	–	43	5,805	--	–	--	–	–	–	0.5
PROJECT ID: 9180-23-72 TOTALS					17,784		2,195		4,390		1,860		210		19,926	8	13		35		65,318	0.5
TOTALS					33,055		2,890		5,420		2,820		315		25,021	8	17		77		65,988	1

NOTES

*ADDITIONAL QUANTITIES SHOWN ELSEWHERE
SIGNS ARE COVERED FOR ONE CYCLE

TEMPORARY PORTABLE RUMBLE STRIPS

CATEGORY	LOCATION	643.0310.S.01 TEMPORARY PORTABLE RUMBLE STRIPS (9180-23-71) LS	643.0310.S.02 TEMPORARY PORTABLE RUMBLE STRIPS (9180-23-72) LS
9180-23-71			
	PROJECT	1	–
PROJECT ID: 9180-23-71 TOTALS		1	–
9180-23-72			
	PROJECT	–	1
PROJECT ID: 9180-23-72 TOTALS		–	1
TOTALS		1	1

TEMPORARY PEDESTRIAN ITEMS

CATEGORY	STAGE	STATION	TO	STATION	OFFSET	DURATION DAYS	643.0410 TRAFFIC CONTROL BARRICADES TYPE II NO.	643.0410 TRAFFIC CONTROL BARRICADES TYPE II DAY	643.0420* TRAFFIC CONTROL BARRICADES TYPE III NO.	643.0420* TRAFFIC CONTROL BARRICADES TYPE III DAY	643.0705* TRAFFIC CONTROL WARNING LIGHTS TYPE A NO.	643.0705* TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	643.0900* TRAFFIC CONTROL SIGNS NO.	643.0900* TRAFFIC CONTROL SIGNS DAY	644.1420.S TEMPORARY PEDESTRIAN SURFACE PLYWOOD SF	644.1601.S TEMPORARY CURB RAMP EACH	COMMENTS
9180-23-71																	
0010	MS1	1099+50	-	1100+82	LT	5	3	15	3	15	6	30	4	20	75	2	CTH B/WILLOW LN
	MS1	1099+50	-	1100+82	RT	5	3	15	6	30	12	60	5	25	75	2	CTH B/WILLOW LN
	MS1	1105+51	-	1106+50	RT	5	4	20	4	20	8	40	4	20	15	1	PEARL AVE
	MS1	1119+20	-	1120+07	LT	5	4	20	4	20	8	40	4	20	15	1	SUNSET AVE
	MS1	1120+52	-	1121+39	RT	5	5	25	6	30	12	60	6	30	15	1	E ZINGLER AVE
		UNDISTRIBUTED						5		5		--		10	10	1	
PROJECT ID: 9180-23-71 TOTALS								100		120		230		125	205	8	
9180-23-72																	
0010	GB1	4+79	-	5+70	LT	5	3	15	6	30	12	60	6	30	–	--	SAWYER ST
	GB1	9+77	-	10+62	LT	5	4	20	8	40	16	80	8	40	–	--	ANDREW ST
	GB1	13+17	-	14+30	LT	5	6	30	8	40	16	80	10	50	–	--	LINCOLN ST
	GB1	16+32	-	17+34	LT	5	3	15	6	30	12	60	6	30	–	--	UNION ST
	GB1	26+45	-	27+03	LT	5	2	10	4	20	8	40	4	20	–	--	ELLIS ST
	GB1	32+20	-	33+10	LT	5	3	15	6	30	12	60	6	30	–	--	FAIRVIEW AVE
	GB1	40+12	-	40+88	LT	7	2	14	4	28	8	56	4	28	–	--	GREEN BAY CT / SIDEWALK EXTENSION
	GB1	50+24	-	50+61	LT	5	2	10	4	20	8	40	3	15	–	--	ARLINGTON ST
	GB1	53+26	-	54+67	LT	5	2	10	4	20	8	40	4	20	–	--	WAUKECHON ST
	GB1	58+91	-	60+91	LT	5	2	10	4	20	8	40	4	20	–	--	WOODLAWN DR
	GB1	64+59	-	65+58	LT	5	1	5	4	20	8	40	3	15	–	--	MOUNTAIN BAY TRAIL
	GB1	75+61	-	75+85	LT	5	1	5	2	10	4	20	2	10	15	1	EBERLEIN PARK RD
	–	21+91	-	26+62	LT & RT	19	4	76	8	152	16	304	12	228	–	--	RR CROSSING
	GB1	4+79	-	5+70	RT	5	4	20	8	40	16	80	8	40	–	--	SAWYER ST
	GB1	9+77	-	10+62	RT	5	4	20	8	40	16	80	8	40	–	--	ANDREW ST
	GB1	13+17	-	14+30	RT	5	4	20	8	40	16	80	8	40	–	--	LINCOLN ST
	GB1	16+32	-	17+34	RT	5	4	20	8	40	16	80	8	40	–	--	UNION ST
	GB1	32+20	-	33+10	RT	5	2	10	2	10	4	20	3	15	–	--	FAIRVIEW AVE
	GB1	32+20	-	33+10	RT	5	2	10	4	20	8	40	4	20	–	--	SIDEWALK EXTENSION
	GB1	53+26	-	54+67	RT	5	2	10	4	20	8	40	6	30	–	--	WAUKECHON ST
	GB1	59+85	-	60+91	RT	5	2	10	4	20	8	40	6	30	–	--	WOODLAWN DR
	GB1	58+91	-	59+49	RT	5	2	10	4	20	8	40	6	30	–	--	WOODLAWN DR/MCDONALD'S DRIVEWAYS
	GB1	64+59	-	65+58	RT	5	1	5	4	20	8	40	3	15	–	--	MOUNTAIN BAY TRAIL
		UNDISTRIBUTED						25		50		50		70	30	1	
PROJECT ID: 9180-23-72 TOTALS								395		780		1,510		906	45	2	
TOTALS								495		900		1,740		1,031	250	10	

* ADDITIONAL QUANTITIES SHOWN ELSEWHERE

TEMPORARY PAVEMENT MARKING ITEMS

CATEGORY	STAGE	STATION	TO	STATION	646.9000 MARKING REMOVAL LINE 4-INCH LF	646.9100 MARKING REMOVAL LINE 8-INCH LF	649.0105 TEMPORARY MARKING LINE PAINT 4-INCH 12.5' LINE 37.5' SKIP WHITE LF	SOLID WHITE LF	SOLID YELLOW LF	3' LINE 9' SKIP WHITE LF	COMMENTS
9180-23-71											
0010											
	MC1	117+55	-	148+65	3,255	–	--	4,604	5,733	39	
	MC2	116+09	-	156+82	6,521	218	--	5,588	8,832	46	
	MC3	114+95	-	156+70	6,542	–	94	6,773	6,773	36	
	MC4	116+09	-	156+82	14,881	–	90	5,529	9,191	46	
	MC4	116+74	-	152+82	14,766	–	1,728	2,264	6,720	--	MARKING PLACED AFTER STAGE 4 IN ORIGINAL LOCATIONS
TOTALS					45,965	218	1,912	24,758	37,249	167	
								64,086			

LONG LINE PAVEMENT MARKING ITEMS

CATEGORY	STAGE	STATION	TO	STATION	ALIGNMENT	646.1020 MARKING LINE EPOXY 4-INCH 12.5' LINE 37.5' SKIP WHITE LF	SOLID WHITE LF	SOLID YELLOW LF	3' LINE 9' SKIP WH ITE LF	646.1545 MARKING LINE GROOVED WET REF CONTRAST EPOXY 4-INCH 12.5' LINE 37.5' SKIP WHITE LF	646.3020 MARKING LINE EPOXY 8-INCH LF	646.3545 MARKING LINE GROOVED WET REF CONTRAST EPOXY 8-INCH LF	646.4520 MARKING LINE SAME DAY EPOXY 4-INCH (YELLOW) LF
9180-23-71													
0010	MS1	1089+00	-	1100+56	LT & RT	--	1,940	–	40	–	175	--	2,230
	MS1	1100+56	-	1121+37	LT & RT	--	3,908	–	–	–	--	--	4,150
	GB2	116+47	-	156+82	LT & RT	--	--	7,629	–	–	--	--	–
	GB3	116+47	-	156+82	RT	--	3,576	–	60	797	--	1,954	–
	GB4	116+47	-	156+82	LT	--	4,037	–	–	967	--	--	–
PROJECT ID: 9180-23-71 TOTALS						--	13,461	7,629	100	1,764	175	1,954	6,380
							21,190						
9180-23-72													
0010	GB2	1+85	-	24+50	LT & RT	--	--	3,888	–	–	--	--	–
	GB2	24+50	-	53+26	LT & RT	--	--	5,317	–	–	195	--	–
	GB2	53+26	-	116+47	LT & RT	--	--	11,589	–	–	844	151	–
	GB3	1+85	-	24+50	RT	545	--	54	–	–	27	--	–
	GB3	24+50	-	53+26	RT	699	--	–	–	–	--	--	–
	GB3	53+26	-	116+47	RT	1,284	4,521	84	–	166	356	--	–
	GB4	1+85	-	24+50	LT	545	--	12	–	–	6	--	–
	GB4	24+50	-	53+26	LT	688	--	–	–	–	--	--	–
	GB4	53+26	-	116+47	LT	1,295	4,690	99	–	163	150	143	–
PROJECT ID: 9180-23-72 TOTALS						5,056	9,211	21,043	–	329	1,578	294	–
							35,310						
TOTALS						5,056	22,672	28,672	100	2,093	1,753	2,248	6,380
							56,500						

MISCELLANEOUS PAVEMENT MARKING ITEMS

CATEGORY	STAGE	STATION	TO	STATION	ALIGNMENT	646.5020 MARKING ARROW EPOXY EACH	646.5120 MARKING WORD EPOXY EACH	646.5320 MARKING RAILROAD CROSSING EPOXY EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	646.7120 MARKING DIAGONAL EPOXY 12-INCH LF	646.7420 MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH LF	646.7520 MARKING CROSSWALK EPOXY LADDER PATTERN 24-INCH LF	646.8020 MARKING CORRUGATED MEDIAN EPOXY SF	646.8120 MARKING CURB EPOXY LF
9180-23-71														
0010	MS1	1089+00	-	1100+56	LT & RT	2	1	--	38	--	200	65	--	–
	MS1	1100+56	-	1121+37	LT & RT	–	–	--	--	--	–	--	--	10
	GB2	116+47	-	156+82	LT & RT	–	–	--	--	--	–	--	--	–
	GB3	116+47	-	156+82	RT	4	3	--	67	500	–	--	--	–
PROJECT ID: 9180-23-71 TOTALS						6	4	--	105	500	200	65	--	10
9180-23-72														
0010	GB3,4	4+79	-	5+70	LT & RT	–	–	--	--	--	–	--	--	52
	GB3,4	9+77	-	10+62	LT & RT	–	–	--	--	--	–	--	--	27
	GB2,3,4	13+21	-	14+26	LT & RT	–	–	--	110	--	520	--	--	25
	GB2,3,4	22+70	-	26+30	LT & RT	–	–	4	--	--	–	--	--	–
	GB2,3,4	29+00	-	29+30	LT & RT	–	–	--	--	--	–	--	50	–
	GB2,3,4	31+65	-	34+40	LT & RT	3	–	--	112	--	480	--	--	8
	GB2,3,4	53+20	-	56+30	LT & RT	2	1	--	84	--	–	--	--	–
	GB2,3,4	58+79	-	61+75	LT & RT	6	–	--	112	--	–	--	--	8
	GB2,3,4	61+98	-	63+78	LT & RT	–	–	--	--	--	–	--	630	–
	GB2,3,4	64+60	-	65+42	LT & RT	–	–	--	--	--	–	235	--	–
	GB2,3,4	71+13	-	71+77	LT & RT	–	–	--	--	--	–	--	220	–
	GB2,3,4	73+03	-	76+85	LT & RT	6	1	--	142	--	–	--	--	–
	GB2,3,4	79+71	-	80+38	LT & RT	–	–	--	--	--	–	--	185	–
	GB2,3,4	99+09	-	100+17	LT & RT	–	–	--	--	--	–	--	365	–
	GB2,3,4	104+85	-	108+56	LT & RT	8	–	--	138	--	–	--	--	–
	GB2,3,4	114+03	-	115+84	LT & RT	–	–	--	--	--	–	--	550	–
PROJECT ID: 9180-23-72 TOTALS						25	2	4	698	--	1,000	235	2,000	120
TOTALS						31	6	4	803	500	1,200	300	2,000	130

CONSTRUCTION STAKING

CATEGORY	STATION	TO	STATION	OFFSET	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	650.6500 CONSTRUCTION STAKING STRUCTURE LAYOUT (C-58-31) LS	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF	650.9910.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (9180-23-71) LS	650.9910.02 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (9180-23-72) LS	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
9180-23-71														
0010	1089+67	-	1121+37	LT & RT	–	–	--	–	–	–	3,170	–	--	–
	1099+50	-	1100+82	LT & RT	–	–	--	165	–	–	--	–	--	–
	116+47	-	156+82	LT & RT	–	–	--	–	–	–	4,035	–	--	–
	132+89	-	133+99	RT	–	–	--	130	–	–	--	–	--	–
	134+00	-	139+75	LT & RT	–	100	100	–	2	–	--	–	--	575
	1+10'R'	-	1+75'R'	RT	–	–	--	–	1	–	--	–	--	–
PROJECT					–	–	--	–	–	1	--	1	--	–
PROJECT ID: 9180-23-71 TOTALS					–	100	100	295	3	1	7,205	1	--	575
9180-23-72														
0010	1+85	-	116+47	LT & RT	–	–	--	–	1	–	11,462	–	--	–
	22+10	-	26+40	LT & RT	2	430	430	833	–	–	--	–	--	430
PROJECT					–	–	--	–	–	–	--	–	1	–
PROJECT ID: 9180-23-72 TOTALS					2	430	430	833	1	–	11,462	–	1	430
TOTALS					2	530	530	1,128	4	1	18,667	1	1	1,005

ADJUSTING PULL BOXES

CATEGORY	STATION	LOCATION	653.0900 EACH	COMMENTS
9180-23-72				
0010	13+35	LT	1	LINCOLN ST
	14+20	LT	1	LINCOLN ST
	32+90	LT	1	FAIRVIEW AVE
	54+32	RT	1	WAUKECHON ST
	59+95	RT	1	WOODLAWN DR
TOTALS			5	

SAWING

CATEGORY	STAGE	STATION	TO	STATION	OFFSET	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	COMMENTS
9180-23-71								
0010	MS1	1089+67	-	1121+37	LT & RT	530	110	
	MS1	1099+50	-	1121+37	LT & RT	360	–	MAHOLE ADJUSTMENTS
	MC1	135+75	-	136+18	RT	–	110	BOX CULVERT
	MC2	135+70	-	136+70	LT	–	160	BOX CULVERT
	MC3	135+70	-	136+70	RT	45	30	BOX CULVERT
	MC4	135+70	-	136+18	LT	105	–	BOX CULVERT
	GB4	116+47	-	156+82	RT	170	–	INTERSECTIONS
PROJECT ID: 9180-23-71 CAT 0010 TOTALS						1,210	410	
0030	MS1	1099+50	-	1121+37		290	–	MANHOLE & WV ADJUSTMENTS
PROJECT ID: 9180-23-71 CAT 0030 TOTALS						290	–	
PROJECT ID: 9180-23-71 TOTALS						1,500	410	
9180-23-72								
0010	GB1	1+85	-	22+10	LT & RT	–	120	MANHOLE ADJUSTMENTS
	GB1	4+79	-	5+70	LT & RT	100	225	SAWYER ST
	GB1	9+77	-	10+56	LT & RT	37	200	ANDREW ST
	GB1	13+17	-	14+30	LT & RT	136	70	LINCOLN ST
	GB1	16+32	-	17+90	LT & RT	128	126	UNION ST
	GB1	21+91	-	26+62	LT & RT	485	145	RAILROAD CROSSING
	GB1	26+82	-	27+00	LT	10	79	ELLIS ST
	GB1	32+20	-	33+12	LT & RT	90	103	FAIRVIEW AVE
	GB1	35+91	-	40+26	LT	487	220	GREEN BAY CT
	GB1	48+78	-	50+61	LT & RT	150	49	ARLINGTON ST
	GB1	53+33	-	54+67	LT & RT	97	80	WAUKECHON ST
	GB1	58+99	-	60+91	LT & RT	6	181	WOODLAWN DR
	GB1	64+43	-	65+51	LT & RT	8	20	MOUNTAIN BAY TRAIL
	GB1	75+61	-	75+85	LT	47	47	EBERLEIN PARK RD
	GB2	26+40	-	51+80	LT & RT	–	72	MANHOLE ADJUSTMENTS
	GB3	1+85	-	22+10	RT	105	–	INTERSECTIONS
	GB3	1+85	-	22+10	RT	–	195	MANHOLE ADJUSTMENTS
	GB3	26+40	-	51+80	RT	46	–	INTERSECTIONS
	GB3	26+40	-	51+80	RT	–	24	MANHOLE ADJUSTMENTS
	GB3	51+80	-	116+47	RT	55	–	INTERSECTIONS
	GB3	51+80	-	116+47	RT	–	48	MANHOLE ADJUSTMENTS
	GB4	1+85	-	22+10	LT	112	–	INTERSECTIONS
	GB4	1+85	-	22+10	LT	–	48	MANHOLE ADJUSTMENTS
	GB4	26+40	-	51+80	LT	38	–	INTERSECTIONS
	GB4	26+40	-	51+80	LT	–	48	MANHOLE ADJUSTMENTS
	GB4	51+80	-	116+47	LT	128	–	INTERSECTIONS
PROJECT ID: 9180-23-72 CAT 0010 TOTALS						2,265	2,100	
0030	GB2	1+85	-	22+10	LT & RT	–	232	MANHOLE & WV ADJUSTMENTS
	GB2	26+40	-	51+80	LT & RT	–	16	MANHOLE & WV ADJUSTMENTS
	GB3	26+40	-	51+80	RT	–	136	MANHOLE & WV ADJUSTMENTS
	GB4	1+85	-	22+10	LT	–	56	MANHOLE & WV ADJUSTMENTS
	GB4	26+40	-	51+80	LT	25	330	MANHOLE & WV ADJUSTMENTS
PROJECT ID: 9180-23-72 CAT 0030 TOTALS						25	770	
PROJECT ID: 9180-23-72 TOTALS						2,290	2,870	
TOTALS						3,790	3,280	

COMPOSITE DRAWING, ORIGINAL ON FILE AT COUNTY REGISTER OF DEEDS OFFICE

4

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROJECT PLAT TITLE SHEET
9180-23-21
C SHAWANO, S MAIN & E GREEN BAY STR
CTH B TO ZINGLER & CTH HHH TO CTH BE
STH 22
SHAWANO COUNTY



CONVENTIONAL SYMBOLS

- SECTION LINE
- QUARTER LINE
- SIXTEENTH LINE
- NEW REFERENCE LINE
- NEW R/W LINE
- EXISTING R/W OR HE LINE
- PROPERTY LINE
- LOT, TIE & OTHER MINOR LINES
- SLOPE INTERCEPT
- CORPORATE LIMITS
- UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC) — W (TYPE)
- NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
- TEMPORARY LIMITED EASEMENT AREA
- EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
- TRANSMISSION STRUCTURES
- BUILDING — TO BE REMOVED
- BRIDGE
- SECTION CORNER SYMBOL
- SECTION CORNER MONUMENT
- R/W MONUMENT (TO BE SET)
- NON-MONUMENTED R/W POINT
- FOUND IRON PIN (1-INCH UNLESS NOTED) IP
- GEODETIC SURVEY MONUMENT
- SIXTEENTH CORNER MONUMENT
- SIGN
- OFF-PREMISE SIGN

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE	■	□
TELEPHONE POLE	●	○
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)	◆	◇

- ACCESS RESTRICTED BY ACQUISITION
- NO ACCESS (BY STATUTORY AUTHORITY)
- ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
- NO ACCESS (NEW HIGHWAY)
- PARCEL NUMBER (25)
- UTILITY NUMBER (40)
- PARALLEL OFFSETS

CONVENTIONAL ABBREVIATIONS

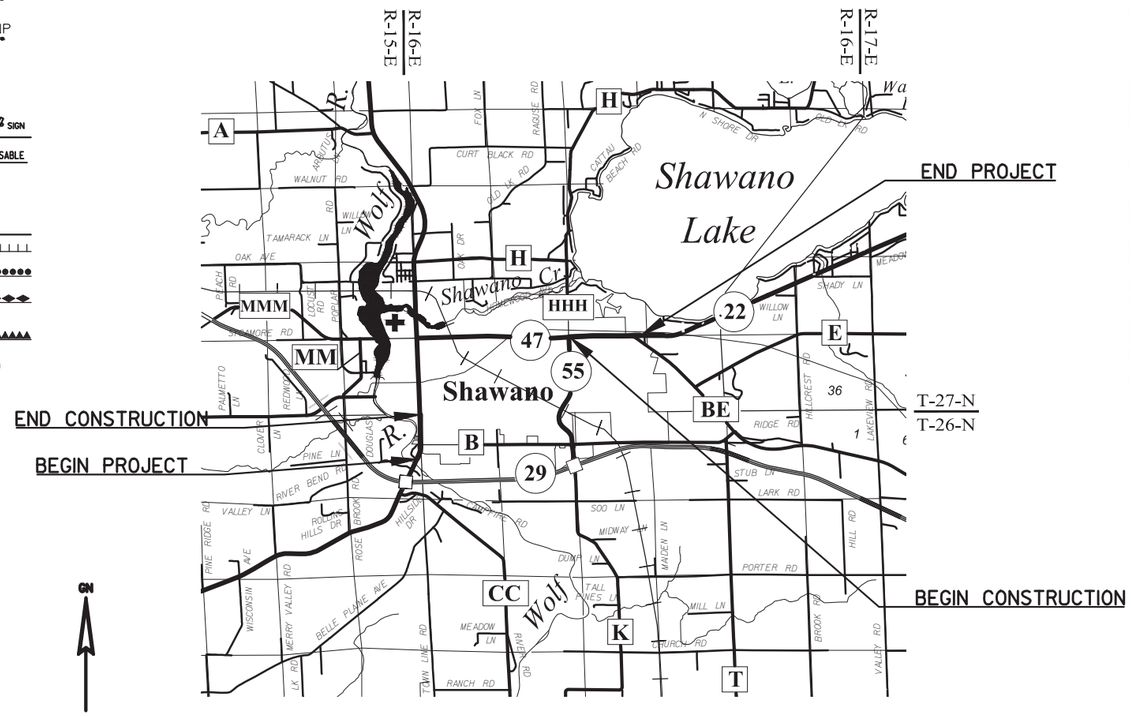
ACCESS RIGHTS	AR	POINT OF INTERSECTION	PI
ACRES	AC	PROPERTY LINE	PL
AHEAD	AH	RECORDED AS	(100')
ALUMINUM	ALUM	REEL / IMAGE	R/I
AND OTHERS	ET AL	REFERENCE LINE	R/L
BACK	BK	REMAINING	REM
BLOCK	BLK	RESTICTIVE DEVELOPMENT EASEMENT	RDE
CENTERLINE	C/L	RIGHT	RT
CERTIFIED SURVEY MAP	CSM	RIGHT OF WAY	R/W
CONCRETE	CONC	SECTION	SEC
COUNTY	CO	SEPTIC VENT	SEPV
COUNTY TRUNK HIGHWAY	CTH	SQUARE FEET	SF
DISTANCE	DIST	STATE TRUNK HIGHWAY	STH
CORNER	COR	STATION	STA
DOCUMENT NUMBER	DOC	TELEPHONE PEDESTAL	TP
EASEMENT	EASE	TEMPORARY LIMITED EASEMENT	TLE
EXISTING	EX	TRANSPORTATION PROJECT PLAT	TPP
GAS VALVE	GV	UNITED STATES HIGHWAY	USH
GRID NORTH	GN	VOLUME	V
HIGHWAY EASEMENT	HE		
IDENTIFICATION	ID		
LAND CONTRACT	LC		
LEFT	LT		
MONUMENT	MON		
NATIONAL GEODETIC SURVEY	NGS		
NUMBER	NO		
OUTLOT	OL		
PAGE	P		
POINT OF TANGENCY	PT		
PERMANENT LIMITED EASEMENT	PLE		
POINT OF BEGINNING	POB		
POINT OF CURVATURE	PC		
POINT OF COMPOUND CURVE	PCC		

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ/DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL UTILITY SYMBOLS

- WATER — W
- GAS — G
- TELEPHONE — T
- OVERHEAD TRANSMISSION LINES — OH
- ELECTRIC — E
- CABLE TELEVISION — TV
- FIBER OPTIC — FO
- SANITARY SEWER — SAN
- STORM SEWER — SS



LAYOUT
SCALE 0 1 MI.

THE NOTES,CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 9180-23-21

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS),(SHWAWANO) COUNTY, NAD 83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN RHINELANDER.

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED.

EXISTING ACCESS CONTROL ALONG STH 22 HAS BEEN ESTABLISHED FROM PREVIOUS PROJECTS: DOC. 251440.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
STH 22- ROW PLATS 9180-12-21, 6251-0421, 6243-07-21, F09-1(6), PARK KNOLL ESTATES ADDITION, MAP OF SOUTH SHAWANO, HARTMAN & LUTZ ADDITION TO THE CITY OF SHAWANO, CSM'S 713, 1190, 806, 833, 532 & 3308.
PEARL AVE - PARK KNOLL ESTATES ADDITION
SUNSET AVE - MAP OF SOUTH SHAWANO
E ZINGLER AVE - HARTMAN & LUTZ ADDITION TO THE CITY OF SHAWANO

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9180-23-21 - 4.01
SHEET 2 OF 2
AMENDMENT NO:

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\TPP\9180-23-21 PLAT_WISDOT\040100_RP.DWG
APPRAISAL PLAT DATE :
PLOT DATE : 12/14/2012 7:46 PM
PLOT BY : TIM RUTZEN
PLOT NAME : ----------
LAYOUT NAME - ****

TRANSPORTATION PROJECT PLAT NO: 9180-23-21-4.01

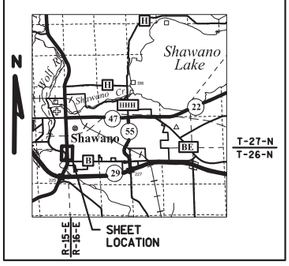
THAT PART OF THE FRACT. NW 1/4 OF THE NW 1/4, LOCATED IN SECTION 6, TOWNSHIP 26 NORTH, RANGE 16 EAST, CITY OF SHAWANO, SHAWANO COUNTY, WISCONSIN.

RELOCATION ORDER STH 22 SHAWANO COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

LOCATION SKETCH NOT TO SCALE



DOC # 7281847
Recorded
February 24, 2017 9:20 AM
AMY DILLENBURG
REGISTER OF DEEDS
SHAWANO WI
Fee Amount: $25.00
Slide B-312

160

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9180-23-21-4.01
AMENDMENT NO:---
SHEET 1 OF 2

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
1	TODD M & KARIN L BUCK	TLE	---	---	---	0.003

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	FRONTIER NORTH INC.	RELEASE OF RIGHTS
201	CHARTER COMMUNICATIONS	RELEASE OF RIGHTS
206	SHAWANO MUNICIPAL UTILITIES (ELECTRIC)	RELEASE OF RIGHTS

200 FRONTIER NORTH INC.
DOC 478762 - PAR 1

201 CHARTER COMMUNICATIONS
DOC 478762 - PAR 1

206 SHAWANO MUNICIPAL UTILITIES (ELECTRIC)
DOC 478762 - PAR 1

STATION & OFFSET TABLE

POINT NO.	STATION	OFFSET
100	1105+40.12	1.25'
101	1105+40.12	0.00'
102	1105+40.08	-33.09'
103	1107+00.00	-33.28'
104	1107+00.00	0.00'
105	1107+00.00	1.61'
106	1107+00.00	32.72'
107	1106+22.02	32.82'
108	1105+40.15	32.91'

EXISTING MONUMENTS

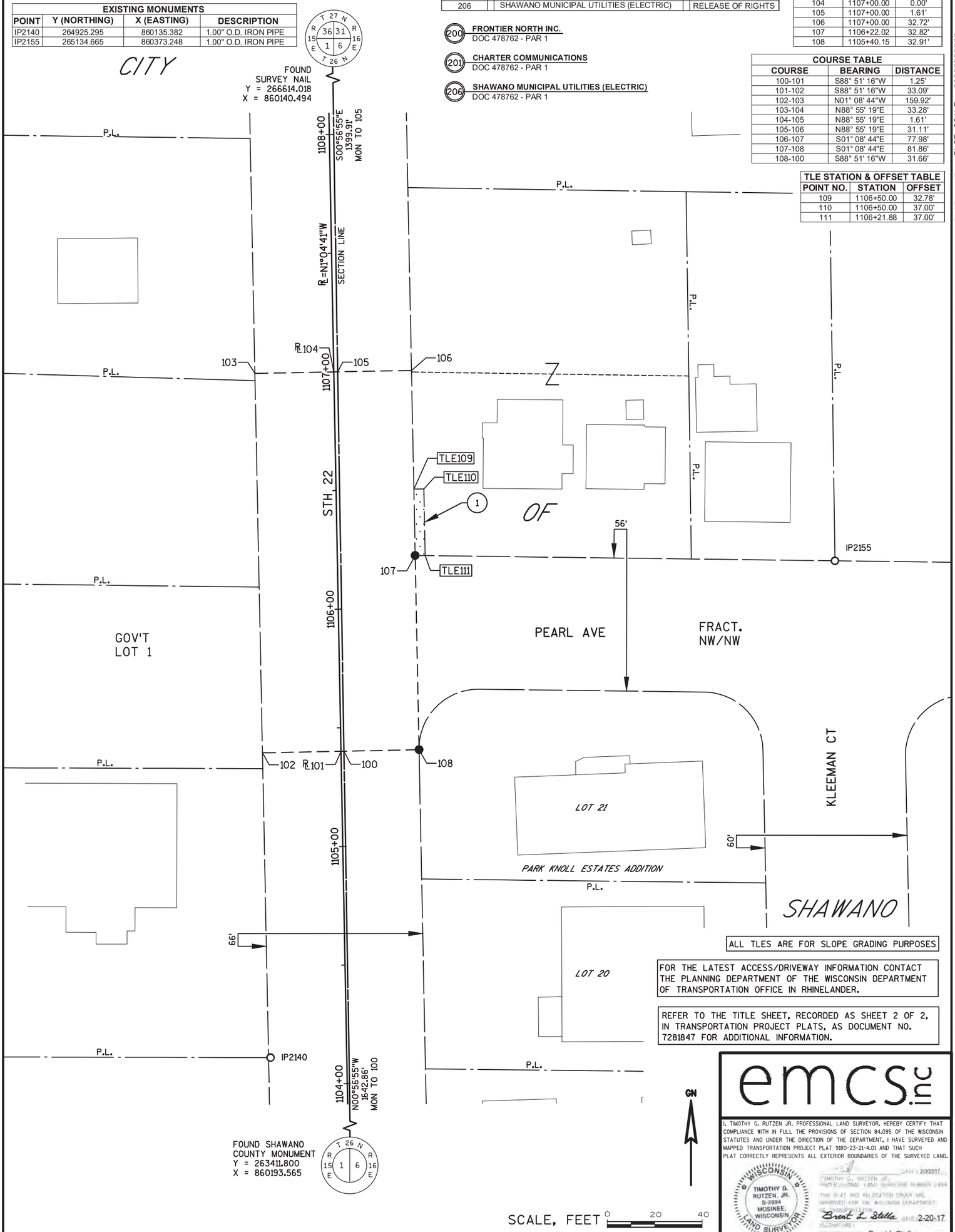
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP2140	264925.295	860135.382	1.00" O.D. IRON PIPE
IP2155	265134.665	860373.248	1.00" O.D. IRON PIPE

COURSE TABLE

COURSE	BEARING	DISTANCE
100-101	S88° 51' 16"W	1.25'
101-102	S88° 51' 16"W	33.09'
102-103	N01° 08' 44"W	159.92'
103-104	N88° 55' 19"E	33.28'
104-105	N88° 55' 19"E	1.61'
105-106	N88° 55' 19"E	31.11'
106-107	S01° 08' 44"E	77.98'
107-108	S01° 08' 44"E	81.86'
108-100	S88° 51' 16"W	31.66'

TLE STATION & OFFSET TABLE

POINT NO.	STATION	OFFSET
109	1106+50.00	32.78'
110	1106+50.00	37.00'
111	1106+21.88	37.00'



SCALE, FEET 0 20 40

GN

ALL TLES ARE FOR SLOPE GRADING PURPOSES

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN RHINELANDER.

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN TRANSPORTATION PROJECT PLATS, AS DOCUMENT NO. 7281847 FOR ADDITIONAL INFORMATION.

emcs.inc

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT COMPLIANCE WITH IN FULL THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 9180-23-21-4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

DATE: 2/9/2017
TIMOTHY G. RUTZEN JR.
PROFESSIONAL LAND SURVEYOR NUMBER S-2994

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

SIGNATURE: Brent L Stella DATE: 2-20-17

PRINTED NAME: Brent L Stella

COMPOSITE DRAWING, ORIGINAL ON FILE AT COUNTY REGISTER OF DEEDS OFFICE

9180-23-21-4.01
PLOT NAME : PLOT SCALE : **********
PLOT BY : Tim Rutzen
PLOT DATE : 4/25/2017 1:20 PM
FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\TPP\9180-23-21 PLAT_WISDOT-40.DWG
APPRAISAL PLAT DATE : ----------

TRANSPORTATION PROJECT PLAT NO: 9180-23-21-4.02

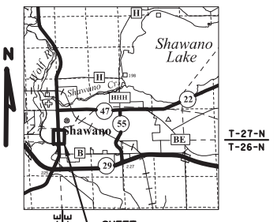
THAT PART OF LOTS 1 & 18 OF THE MAP OF SOUTH SHAWANO, LOCATED IN PART OF GOV'T LOT 1 OF SECTION 1, TOWNSHIP 26 NORTH, RANGE 15 EAST, PART OF LOT 10, BLOCK 5 OF THE HARTMAN & LUTZ ADDITION TO THE CITY OF SHAWANO, LOCATED IN THE SW 1/4 OF THE SW 1/4, SECTION 31, TOWNSHIP 27 NORTH, RANGE 16 EAST AND PART OF THE FRACT. NW 1/4 OF THE NW 1/4, SECTION 6, TOWNSHIP 26 NORTH, RANGE 16 EAST, ALL LOCATED IN CITY OF SHAWANO, SHAWANO COUNTY, WISCONSIN.

RELOCATION ORDER STH 22 SHAWANO COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

LOCATION SKETCH NOT TO SCALE



DOC # 723499
Recorded
May 02, 2017 10:45
AMY DILLENBURG
REGISTER OF DEEDS
SHAWANO WI
Fee Amount: $25.00
Slide B-312

161

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9180-23-21-4.02
AMENDMENT NO:___

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	FRONTIER NORTH INC.	RELEASE OF RIGHTS
201	CHARTER COMMUNICATIONS	RELEASE OF RIGHTS
206	SHAWANO MUNICIPAL UTILITIES (ELECTRIC)	RELEASE OF RIGHTS

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
2	JENNIFER K POWERS	TLE	---	---	---	0.002
3	KIMBERLITE LLC	TLE	---	---	---	0.003
4	JAMES L POPP	TLE	---	---	---	0.002
6	WILLIAM P GRIESBACH, JR	TLE	---	---	---	0.002

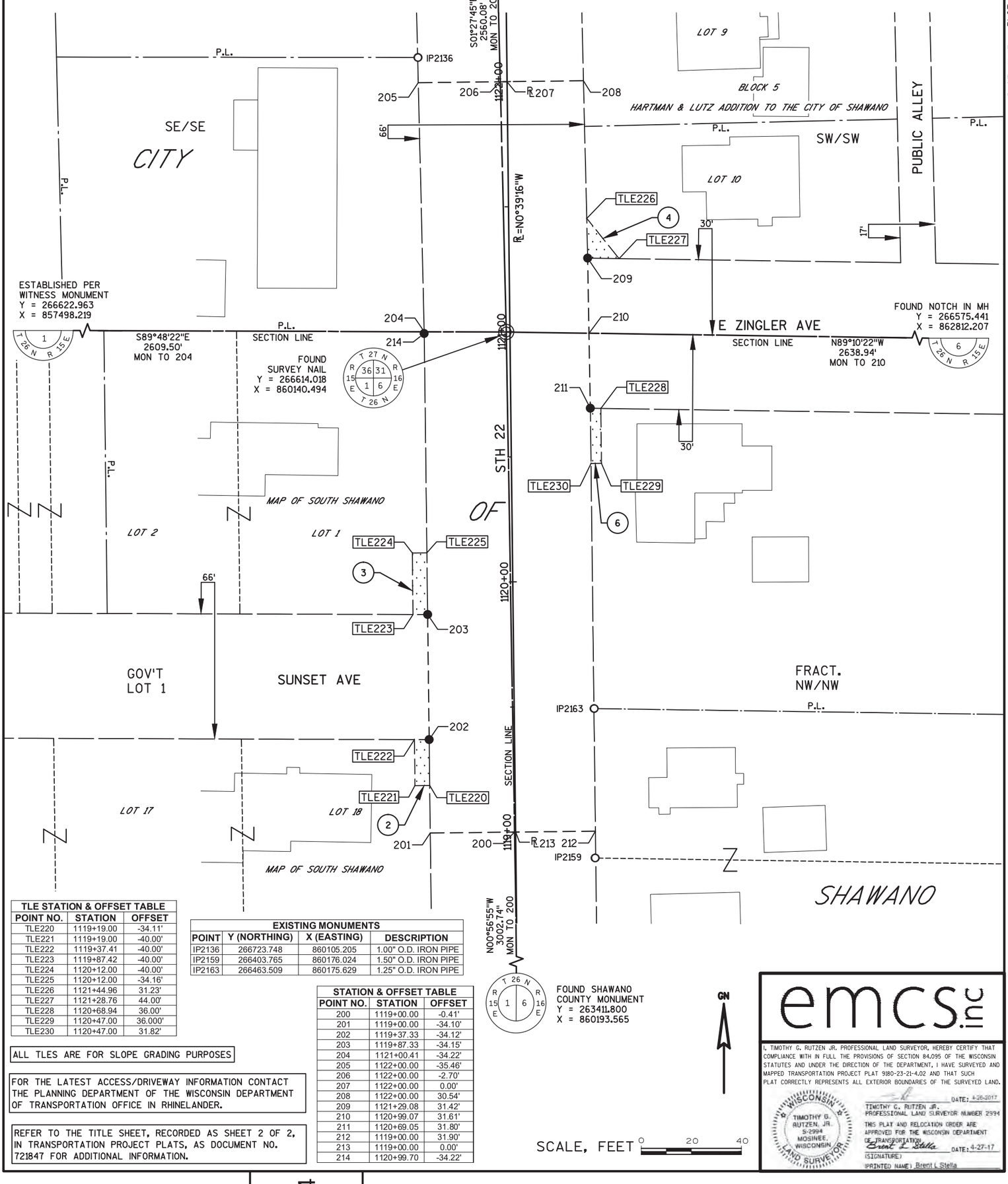
FOUND SURVEY NAIL
Y = 269273.411
X = 860076.470

(200) **FRONTIER NORTH INC.**
DOC 478747 - PAR 2
DOC 478748 - PAR 3
DOC 478749 - PAR 6

(201) **CHARTER COMMUNICATIONS**
DOC 478747 - PAR 2
DOC 478748 - PAR 3
DOC 478749 - PAR 6

(206) **SHAWANO MUNICIPAL UTILITIES (ELECTRIC)**
DOC 478747 - PAR 2
DOC 478748 - PAR 3
DOC 478749 - PAR 6

COURSE TABLE		
COURSE	BEARING	DISTANCE
200-201	S89° 20' 44"W	33.69'
201-202	N00° 41' 17"W	37.33'
202-203	N00° 41' 17"W	50.01'
203-214	N00° 41' 17"W	112.37'
214-204	N01° 22' 03"W	0.71'
204-205	N01° 22' 03"W	99.60'
205-206	N89° 20' 44"E	32.76'
206-207	N89° 20' 44"E	2.70'
207-208	N89° 20' 44"E	30.54'
208-209	S01° 22' 03"E	70.92'
209-210	S01° 00' 57"E	30.02'
210-211	S01° 00' 57"E	30.02'
211-212	S00° 41' 17"E	169.05'
212-213	S89° 20' 44"W	31.90'
213-200	S89° 20' 44"W	0.41'



TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE220	1119+19.00	-34.11'
TLE221	1119+19.00	-40.00'
TLE222	1119+37.41	-40.00'
TLE223	1119+87.42	-40.00'
TLE224	1120+12.00	-40.00'
TLE225	1120+12.00	-34.16'
TLE226	1121+44.96	31.23'
TLE227	1121+28.76	44.00'
TLE228	1120+68.94	36.00'
TLE229	1120+47.00	36.000'
TLE230	1120+47.00	31.82'

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP2136	266723.748	860105.205	1.00" O.D. IRON PIPE
IP2159	266403.765	860176.024	1.50" O.D. IRON PIPE
IP2163	266463.509	860175.629	1.25" O.D. IRON PIPE

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
200	1119+00.00	-0.41'
201	1119+00.00	-34.10'
202	1119+37.33	-34.12'
203	1119+87.33	-34.15'
204	1121+00.41	-34.22'
205	1122+00.00	-35.46'
206	1122+00.00	-2.70'
207	1122+00.00	0.00'
208	1122+00.00	30.54'
209	1121+29.08	31.42'
210	1120+99.07	31.61'
211	1120+69.05	31.80'
212	1119+00.00	31.90'
213	1119+00.00	0.00'
214	1120+99.70	-34.22'

ALL TLES ARE FOR SLOPE GRADING PURPOSES

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN RHINELANDER.

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN TRANSPORTATION PROJECT PLATS, AS DOCUMENT NO. 721847 FOR ADDITIONAL INFORMATION.

emcs.inc

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT COMPLIANCE WITH IN FULL THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 9180-23-21-4.02 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE: 4-26-2017

TIMOTHY G. RUTZEN JR.
PROFESSIONAL LAND SURVEYOR NUMBER 2994

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

Brent L Stella DATE: 4-27-17
(SIGNATURE)
(PRINTED NAME) Brent L Stella

WISCONSIN TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

COMPOSITE DRAWING, ORIGINAL ON FILE AT COUNTY REGISTER OF DEEDS OFFICE

9180-23-21 4.02

PLOT NAME : PLOT SCALE : ==========
PLOT BY : Tim Rutzen
PLOT DATE : 4/25/2017 1:23 PM
FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\9180237I\SHEETSPLAN\TPP\9180-23-21 PLAT_WISDOT-4902_RP.DWG
APPRAISAL PLAT DATE : ----------

COMPOSITE DRAWING, ORIGINAL ON FILE AT COUNTY REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 9180-23-21-4.03

THAT PART OF LOT 1 OF CSM 806 AND PART OF LOT 1 OF CSM 1190, LOCATED IN PART OF THE SW 1/4 OF THE SE 1/4, SECTION 28, ALSO PART OF LOT 1 OF CSM 532 AND PART OF LOT 1 OF CSM 3308, ALL LOCATED IN PART OF THE NW 1/4 OF THE NE 1/4 OF SECTION 33, ALL BEING LOCATED IN TOWNSHIP 27 NORTH, RANGE 16 EAST, CITY OF SHAWANO, SHAWANO COUNTY, WISCONSIN.

RELOCATION ORDER STH 22 SHAWANO COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3), 84.09, AND 84.30, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

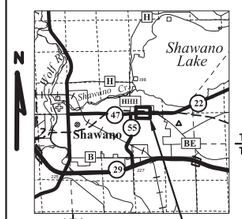
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
7	AMG SHAWANO PROPERTIES, LLC	FEE/TLE	0.086	---	0.086	0.183
8	FELTS CONSTRUCTION COMPANY, INC	TLE	---	---	---	0.067
9	WILLIAM C BAIN & CYNTHIA L BAIN, LLC	FEE/TLE	0.013	---	0.013	0.162
11	THE COTTAGES INVESTMENT GROUP, LLC	TLE	---	---	---	0.015

LOCATION SKETCH NOT TO SCALE

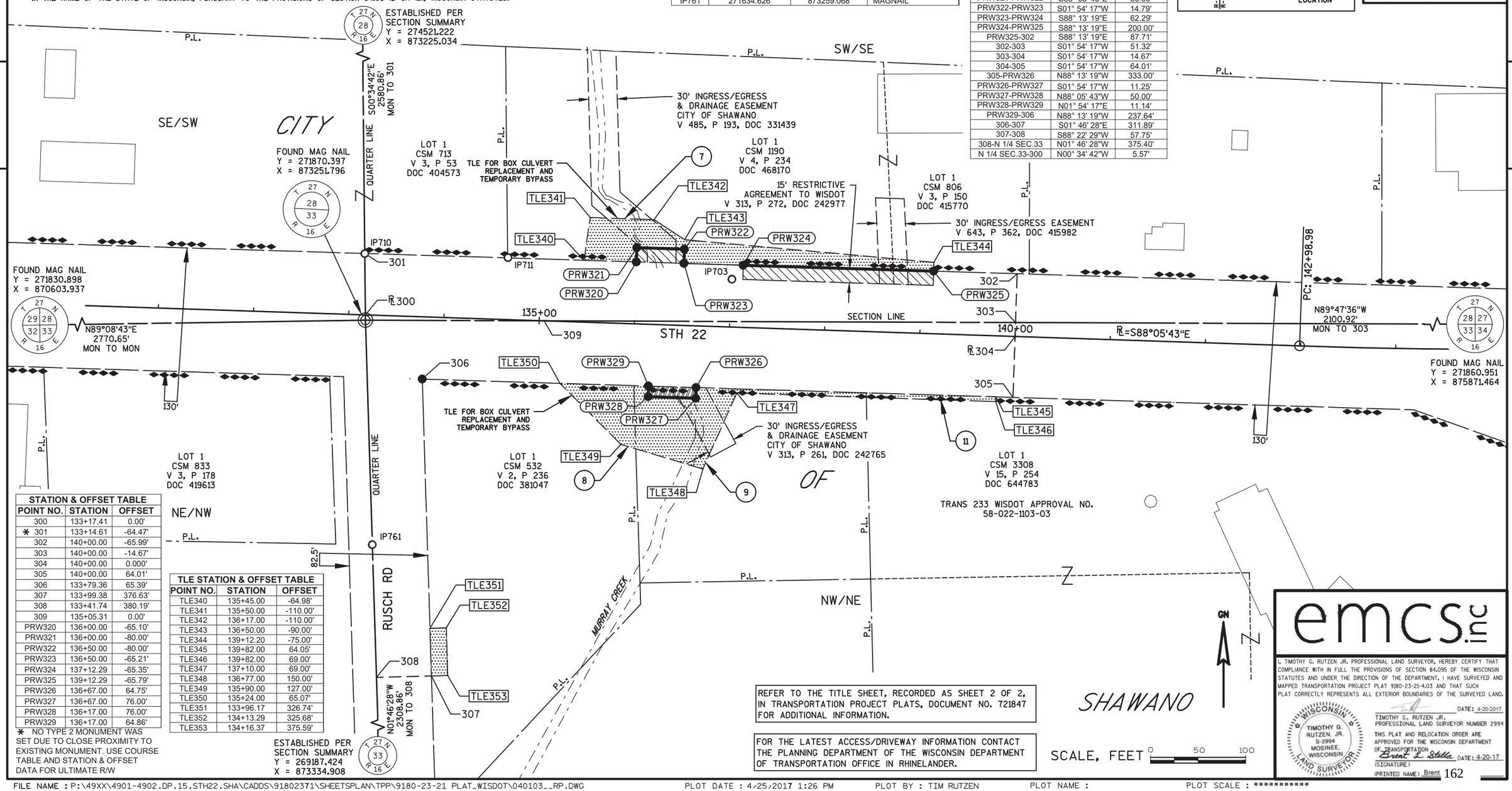


DOC # 723175
Recorded
April 25, 2017 11:09 AM
AMY DILLENBURG
REGISTER OF DEEDS
SHAWANO WI
Fee Amount: $25.00
Slide B-312

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9180-23-21-4.03
AMENDMENT NO:---

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP703	271913.392	873636.622	1.00" O.D. IRON PIPE
IP710	271940.297	873251.175	1.00" O.D. IRON PIPE
IP711	271936.14	873401.535	1.00" O.D. IRON PIPE
IP761	271634.626	873259.068	MAGNAIL

COURSE TABLE		
COURSE	BEARING	DISTANCE
300-301	N00° 34' 42"W	64.53'
301-PRW320	S88° 13' 19"E	285.39'
PRW320-PRW321	N01° 54' 17"E	14.90'
PRW321-PRW322	S88° 05' 43"E	50.00'
PRW322-PRW323	S01° 54' 17"W	14.79'
PRW323-PRW324	S88° 13' 19"E	62.29'
PRW324-PRW325	S88° 13' 19"E	200.00'
PRW325-302	S88° 13' 19"E	87.71'
302-303	S01° 54' 17"W	51.32'
303-304	S01° 54' 17"W	14.67'
304-305	S01° 54' 17"W	64.01'
305-PRW326	N88° 13' 19"W	333.00'
PRW326-PRW327	S01° 54' 17"W	11.25'
PRW327-PRW328	N88° 05' 43"W	50.00'
PRW328-PRW329	N01° 54' 17"E	11.14'
PRW329-306	N88° 13' 19"W	237.64'
306-307	S01° 46' 28"E	311.89'
307-308	S88° 22' 29"W	57.75'
308-N 1/4 SEC.33	N01° 46' 28"W	375.40'
N 1/4 SEC.33-300	N00° 34' 42"W	5.57'



STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
300	133+17.41	0.00'
* 301	133+14.61	-64.47'
302	140+00.00	-65.99'
303	140+00.00	-14.67'
304	140+00.00	0.000'
305	140+00.00	64.01'
306	133+79.36	65.39'
307	133+99.38	376.63'
308	133+41.74	380.19'
309	135+05.31	0.00'
PRW320	136+00.00	-65.10'
PRW321	136+00.00	-80.00'
PRW322	136+50.00	-80.00'
PRW323	136+50.00	-65.21'
PRW324	137+12.29	-65.35'
PRW325	139+12.29	-65.79'
PRW326	136+67.00	64.75'
PRW327	136+67.00	76.00'
PRW328	136+17.00	76.00'
PRW329	136+17.00	64.86'

* NO TYPE 2 MONUMENT WAS SET DUE TO CLOSE PROXIMITY TO EXISTING MONUMENT. USE COURSE TABLE AND STATION & OFFSET DATA FOR ULTIMATE R/W

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE340	135+45.00	-64.98'
TLE341	135+50.00	-110.00'
TLE342	136+17.00	-110.00'
TLE343	136+50.00	-90.00'
TLE344	139+12.20	-75.00'
TLE345	139+82.00	64.05'
TLE346	139+82.00	69.00'
TLE347	137+10.00	69.00'
TLE348	136+77.00	150.00'
TLE349	135+90.00	127.00'
TLE350	135+24.00	65.07'
TLE351	133+96.17	326.74'
TLE352	134+13.29	325.68'
TLE353	134+16.37	375.59'

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN TRANSPORTATION PROJECT PLATS, DOCUMENT NO. 721847 FOR ADDITIONAL INFORMATION.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN RHINELANDER.

emcs.inc

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT COMPLIANCE WITH IN FULL THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 9180-23-21-4.03 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE: 4-20-2017
TIMOTHY G. RUTZEN JR.
PROFESSIONAL LAND SURVEYOR NUMBER 2994

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

Brent L Stella DATE: 4-20-17
(SIGNATURE)
(PRINTED NAME) Brent

WISCONSIN TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\TPP\9180-23-21 PLAT_WISDOT\040103__RP.DWG
PLOT DATE : 4/25/2017 1:26 PM PLOT BY : TIM RUTZEN PLOT NAME : PLOT SCALE : **********
APPRAISAL PLAT DATE : ----------

9180-23-21-4.03

COMPOSITE DRAWING, ORIGINAL ON FILE AT THE COUNTY REGISTER OF DEEDS OFFICE



CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W OR HE LINE
PROPERTY LINE
LOT, TIE & OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)
TEMPORARY LIMITED EASEMENT AREA
EASEMENT AREA (PERMANENT LIMITED OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING TO BE REMOVED
BRIDGE

SECTION CORNER SYMBOL
SECTION CORNER MONUMENT
R/W MONUMENT (TO BE SET)
NON-MONUMENTED R/W POINT
FOUND IRON PIN (1-INCH UNLESS NOTED) IP
GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
SIGN
OFF-PREMISE SIGN

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE	■	□
TELEPHONE POLE	●	○
PEDESTAL (LABEL TYPE) (TV, TEL, ELEC, ETC.)	◆	◇

ACCESS RESTRICTED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
PARCEL NUMBER 25
UTILITY NUMBER 40
PARALLEL OFFSETS

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	POINT OF INTERSECTION	PI
ACRES	AC	PROPERTY LINE	PL
AHEAD	AH	RECORDED AS	(100')
ALUMINUM	ALUM	REEL / IMAGE	R/I
AND OTHERS	ET AL	REFERENCE LINE	R/L
BACK	BK	REMAINING	REM
BLOCK	BLK	RESTICTIVE DEVELOPMENT EASEMENT	RDE
CENTERLINE	C/L	RIGHT	RT
CERTIFIED SURVEY MAP	CSM	RIGHT OF WAY	R/W
CONCRETE	CONC	SECTION	SEC
COUNTY	CO	SEPTIC VENT	SEPV
COUNTY TRUNK HIGHWAY	CTH	SQUARE FEET	SF
DISTANCE	DIST	STATE TRUNK HIGHWAY	STH
CORNER	COR	STATION	STA
DOCUMENT NUMBER	DOC	TELEPHONE PEDESTAL	TP
EASEMENT	EASE	TEMPORARY LIMITED EASEMENT	TLE
EXISTING	EX	TRANSPORTATION PROJECT PLAT	TPP
GAS VALVE	GV	UNITED STATES HIGHWAY	USH
GRID NORTH	GN	VOLUME	V
HIGHWAY EASEMENT	HE		
IDENTIFICATION	ID		
LAND CONTRACT	LC		
LEFT	LT		
MONUMENT	MON		
NATIONAL GEODETIC SURVEY	NGS		
NUMBER	NO		
OUTLOT	OL		
PAGE	P		
POINT OF TANGENCY	PT		
PERMANENT LIMITED EASEMENT	PLE		
POINT OF BEGINNING	POB		
POINT OF CURVATURE	PC		
POINT OF COMPOUND CURVE	PCC		

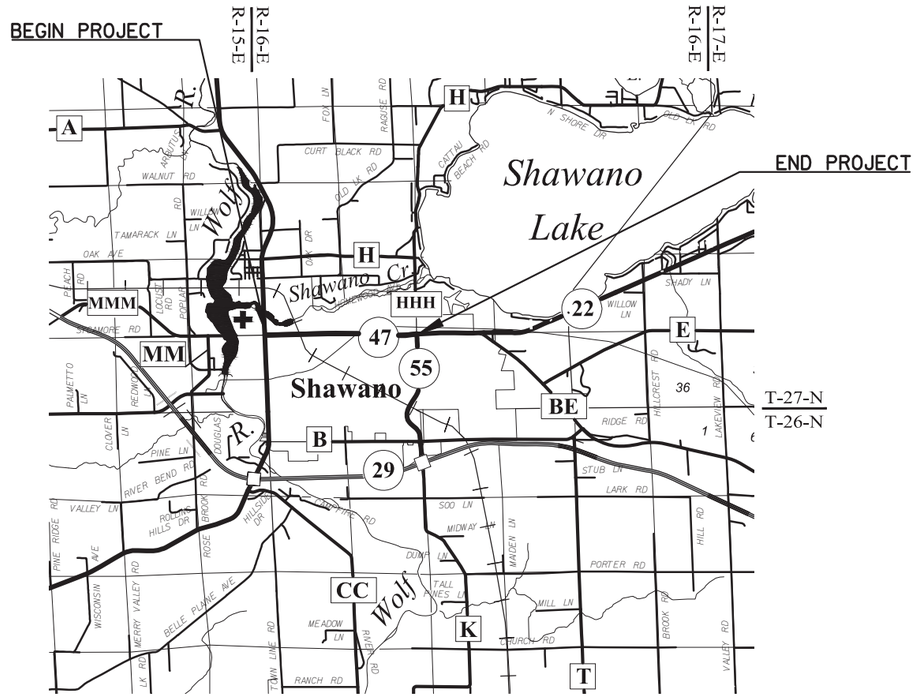
CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ/DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL UTILITY SYMBOLS

WATER	W
GAS	G
TELEPHONE	T
OVERHEAD TRANSMISSION LINES	OH
ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
TRANSPORTATION PROJECT PLAT TITLE SHEET
9180-23-22
C SHAWANO, GREEN BAY STREET
MAIN STREET TO CTH HHH
STH 22
SHAWANO COUNTY



LAYOUT
SCALE 0 1 MI.

THE NOTES,CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 9180-23-22.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS),(SHWAWANO) COUNTY, NAD 83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLEs) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A PERMANENT LIMITED EASEMENT (PLE) IS A RIGHT FOR CONSTRUCTION AND MAINTENANCE PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHTS TO MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WILL NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

AN EASEMENT FOR HIGHWAY PURPOSES (HE), AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION, CONTACT THE PLANNING UNIT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN RHINELANDER.

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED.

EXISTING ACCESS CONTROL ALONG STH 22 HAS BEEN ESTABLISHED FROM PREVIOUS PROJECTS: DOC. 251440 & RW PLAT 9180-12-21.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:
STH 22- ASSESSORS PLAT OF THE CITY OF SHAWANO, SHANAHAN'S ADDITION TO THE VILLAGE OF SHAWANO, NABER & RUEDEBUSCH ADDITION TO THE CITY OF SHAWANO, ARLINGTON ADDITION SUBDIVISION, CSM 3989, CSM 2261, CSM 2575, CSM 3339, CSM 1338, CSM 736, CSM 910, CSM 995, CSM 504, CSM 321 & CSM 1137.
SAWYER ST-ASSESSORS PLAT OF THE CITY OF SHAWANO
ANDREWS ST-ASSESSORS PLAT OF THE CITY OF SHAWANO
LINCOLN ST-ASSESSORS PLAT OF THE CITY OF SHAWANO, SHANAHAN'S ADDITION TO THE VILLAGE OF SHAWANO & CSM 3886
UNION ST-ASSESSORS PLAT OF THE CITY OF SHAWANO & SHANAHAN'S ADDITION TO THE VILLAGE OF SHAWANO
N ELLIS ST-ASSESSORS PLAT OF THE CITY OF SHAWANO & SHANAHAN'S ADDITION TO THE VILLAGE OF SHAWANO
FAIRVIEW AVE-ASSESSORS PLAT OF THE CITY OF SHAWANO, ARLINGTON ADDITION SUBDIVISION, CSM 2575, CSM 3339
GREEN BAY CT-ASSESSORS PLAT OF THE CITY OF SHAWANO, ARLINGTON ADDITION SUBDIVISION
ARLINGTON ST-ASSESSORS PLAT OF THE CITY OF SHAWANO
WAUKECHON ST-CSM 1338 & CSM 736
WOODLAWN DR-CSM 910
LAKELAND RD-CSM 1137

4

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9180-23-22 - 4.01
SHEET 2 OF 2
AMENDMENT NO: 1

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\TPP\9180-23-22 PLAT_CITY\040100_RP.DWG
APPRAISAL PLAT DATE :
PLOT DATE : 12/14/2012 7:46 PM
PLOT BY : TIM RUTZEN
PLOT NAME : ----------
LAYOUT NAME - ****

COMPOSITE DRAWING, ORIGINAL ON FILE AT THE COUNTY REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 9180-23-22-4.01
AMENDMENT NO. 1

AMENDMENT REPLACES AND SUPERCEDES THE TITLE SHEET, BEING SHEET 2 OF 2 TRANSPORTATION PROJECT PLAT NO: 9180-23-22-4.01, RECORDED AS DOC. 722987.

THAT PART OF LOT 5, BLOCK 30, LOTS 5 & 10, BLOCK 29, LOCATED IN PART OF THE FRACT. SW 1/4 OF THE SW 1/4, SECTION 30; ALSO LOT 1 OF CSM 898, LOT 1, BLOCK 31, LOTS 1 & 17, BLOCK 32 AND LOT 17, BLOCK 33, ALL LOCATED IN SAWYER AND ANDREWS PLAT, ACCORDING TO THE ASSESSORS PLAT OF THE CITY OF SHAWANO, LOCATED IN PART OF THE FRACT. NW 1/4 OF THE NW 1/4, SECTION 31, ALL BEING LOCATED IN TOWNSHIP 27 NORTH, RANGE 16 EAST, CITY OF SHAWANO, SHAWANO COUNTY, WISCONSIN.

RELOCATION ORDER STH 22 SHAWANO COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF SHAWANO DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF SHAWANO HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF SHAWANO, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

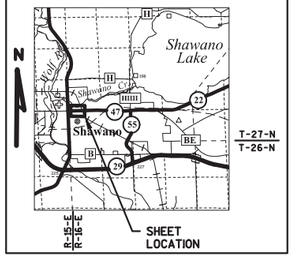
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	R/W ACRES REQUIRED EXISTING	R/W ACRES REQUIRED TOTAL	TLE ACRES
1	GENEX COOPERATIVE, INC	FEE/TLE	0.001	---	0.001	0.003
2	CITY OF SHAWANO	FEE/TLE	0.001	---	0.001	0.004
3	TCEC SHAWANO PROPERTY, LLC	FEE/TLE	0.001	---	0.001	0.004
4	STEVEN F & GAIL J ERICKSON AS VENDOR AND DR. R.C. SAMANTA ROY INSTITUTE OF SCIENCE AND TECHNOLOGY, INC AS VENDEE PER LAND CONTRACT DATED JANUARY 21, 2004	FEE/TLE	0.001	---	0.001	0.007
6	PLAZA 212, LLC	FEE/TLE	0.001	---	0.001	0.007
7	PIZZA PROPERTIES, LLC	FEE/TLE	0.001	---	0.001	0.003
8	CASPAR B & SUSAN M WALLRICH	FEE/TLE	0.001	---	0.001	0.003

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
204	WIS. GAS LLC D/B/A WE ENERGIES	RELEASE OF RIGHTS
206	SHAWANO MUNICIPAL UTILITIES (ELECTRIC)	RELEASE OF RIGHTS
209	CITY OF SHAWANO (SEWER)	RELEASE OF RIGHTS

LOCATION SKETCH NOT TO SCALE



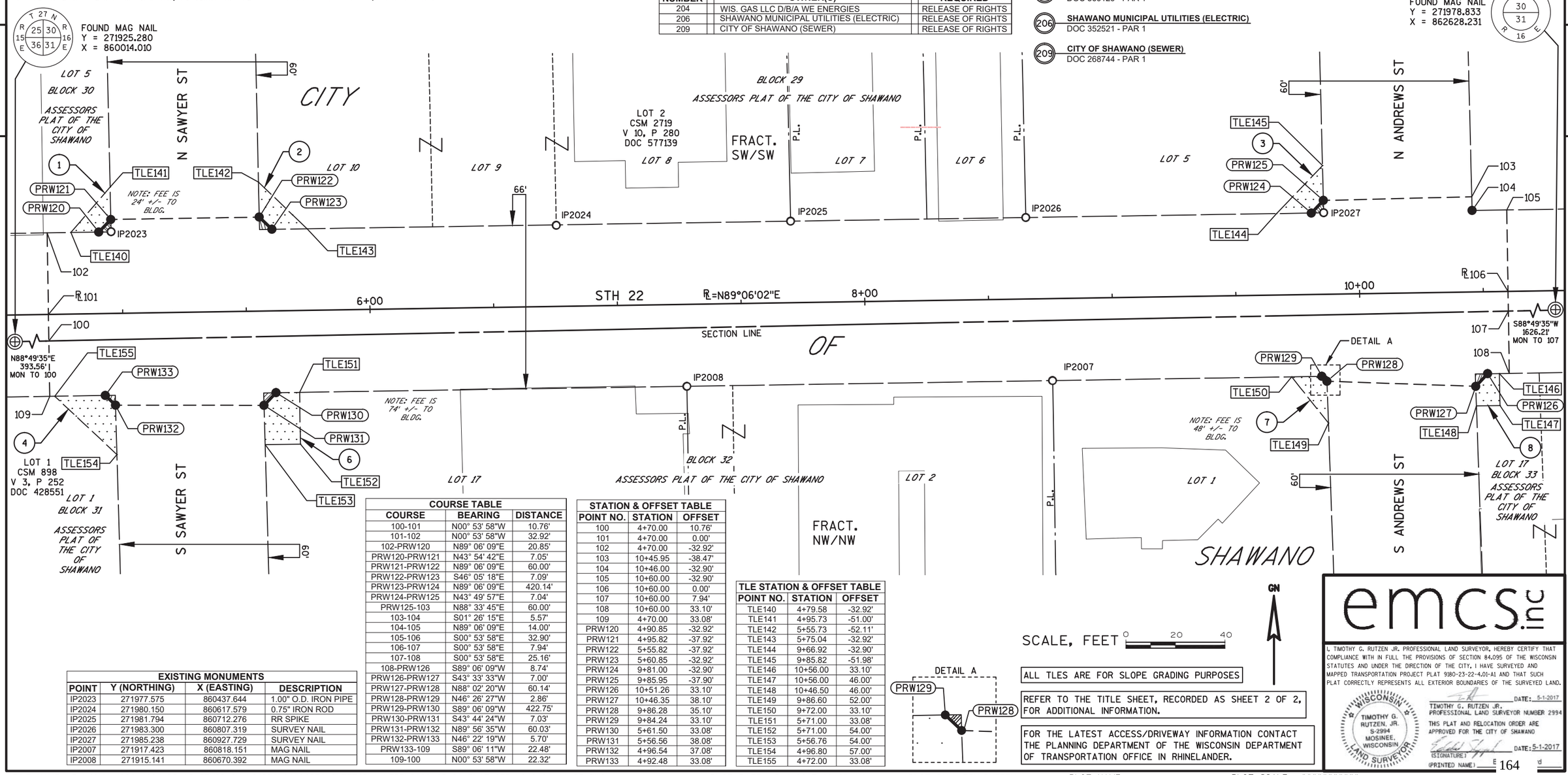
DOC # 723545
Recorded
May 04, 2017 9:05 AM
AMY DILLENBURG
REGISTER OF DEEDS
SHAWANO WI
Fee Amount: $25.00
Slide 8-312

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9180-23-22-4.01
AMENDMENT NO: 1
SHEET 1 OF 2

204 WIS. GAS LLC D/B/A WE ENERGIES
DOC 369129 - PAR 1

206 SHAWANO MUNICIPAL UTILITIES (ELECTRIC)
DOC 352521 - PAR 1

209 CITY OF SHAWANO (SEWER)
DOC 268744 - PAR 1



EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP2023	271977.575	860437.644	1.00" O.D. IRON PIPE
IP2024	271980.150	860617.579	0.75" IRON ROD
IP2025	271981.794	860712.276	RR SPIKE
IP2026	271983.300	860807.319	SURVEY NAIL
IP2027	271985.238	860927.729	SURVEY NAIL
IP2007	271917.423	860818.151	MAG NAIL
IP2008	271915.141	860670.392	MAG NAIL

COURSE TABLE		
COURSE	BEARING	DISTANCE
100-101	N00° 53' 58"W	10.76'
101-102	N00° 53' 58"W	32.92'
102-PRW120	N89° 06' 09"E	20.85'
PRW120-PRW121	N43° 54' 42"E	7.05'
PRW121-PRW122	N89° 06' 09"E	60.00'
PRW122-PRW123	S46° 05' 18"E	7.09'
PRW123-PRW124	N89° 06' 09"E	420.14'
PRW124-PRW125	N43° 49' 57"E	7.04'
PRW125-103	N88° 33' 45"E	60.00'
103-104	S01° 26' 15"E	5.57'
104-105	N89° 06' 09"E	14.00'
105-106	S00° 53' 58"E	32.90'
106-107	S00° 53' 58"E	7.94'
107-108	S00° 53' 58"E	25.16'
108-PRW126	S89° 06' 09"W	8.74'
PRW126-PRW127	S43° 33' 33"W	7.00'
PRW127-PRW128	N88° 02' 20"W	60.14'
PRW128-PRW129	N46° 26' 27"W	2.86'
PRW129-PRW130	S89° 06' 09"W	422.75'
PRW130-PRW131	S43° 44' 24"W	7.03'
PRW131-PRW132	N89° 56' 35"W	60.03'
PRW132-PRW133	N46° 22' 19"W	5.70'
PRW133-109	S89° 06' 11"W	22.48'
109-100	N00° 53' 58"W	22.32'

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
100	4+70.00	10.76'
101	4+70.00	0.00'
102	4+70.00	-32.92'
103	10+45.95	-38.47'
104	10+46.00	-32.90'
105	10+60.00	-32.90'
106	10+60.00	0.00'
107	10+60.00	7.94'
108	10+60.00	33.10'
109	4+70.00	33.08'
PRW120	4+90.85	-32.92'
PRW121	4+95.82	-37.92'
PRW122	5+55.82	-37.92'
PRW123	5+60.85	-32.92'
PRW124	9+81.00	-32.90'
PRW125	9+85.95	-37.90'
PRW126	10+51.26	33.10'
PRW127	10+46.35	38.10'
PRW128	9+86.28	35.10'
PRW129	9+84.24	33.10'
PRW130	5+61.50	33.08'
PRW131	5+56.56	38.08'
PRW132	4+96.54	37.08'
PRW133	4+92.48	33.08'

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE140	4+79.58	-32.92'
TLE141	4+95.73	-51.00'
TLE142	5+55.73	-52.11'
TLE143	5+75.04	-32.92'
TLE144	9+66.92	-32.90'
TLE145	9+85.82	-51.98'
TLE146	10+56.00	33.10'
TLE147	10+56.00	46.00'
TLE148	10+46.50	46.00'
TLE149	9+86.60	52.00'
TLE150	9+72.00	33.10'
TLE151	5+71.00	33.08'
TLE152	5+71.00	54.00'
TLE153	5+56.76	54.00'
TLE154	4+96.80	57.00'
TLE155	4+72.00	33.08'

SCALE, FEET 0 20 40

GN

ALL TLES ARE FOR SLOPE GRADING PURPOSES

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, FOR ADDITIONAL INFORMATION.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN RHINELANDER.

emcs, inc

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT COMPLIANCE WITH IN FULL THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 9180-23-22-4.01-A1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

DATE: 5-1-2017
TIMOTHY G. RUTZEN JR.
PROFESSIONAL LAND SURVEYOR NUMBER 2994

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF SHAWANO

DATE: 5-1-2017
(SIGNATURE)
(PRINTED NAME)

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\TPP\9180-23-22 PLAT_CITY\040101_A1_RP.DWG
PLOT DATE : 5/4/2017 10:28 AM
PLOT BY : TIM RUTZEN
PLOT NAME :
PLOT SCALE : **********
APPRAISAL PLAT DATE : ----------

9180-23-22-4.01-A1

COMPOSITE DRAWING, ORIGINAL ON FILE AT THE COUNTY REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 9180-23-22-4.01

THAT PART OF LOT 5, BLOCK 30, LOTS 5 & 10, BLOCK 29, LOCATED IN PART OF THE FRACT. SW 1/4 OF THE SW 1/4, SECTION 30; ALSO LOT 1 OF CSM 898, LOT 1, BLOCK 31, LOTS 1 & 17, BLOCK 32 AND LOT 17, BLOCK 33, ALL LOCATED IN SAWYER AND ANDREWS PLAT, ACCORDING TO THE ASSESSORS PLAT OF THE CITY OF SHAWANO, LOCATED IN PART OF THE FRACT. NW 1/4 OF THE NW 1/4, SECTION 31, ALL BEING LOCATED IN TOWNSHIP 27 NORTH, RANGE 16 EAST, CITY OF SHAWANO, SHAWANO COUNTY, WISCONSIN.

RELOCATION ORDER STH 22 SHAWANO COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF SHAWANO DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

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SCHEDULE OF LANDS & INTERESTS REQUIRED

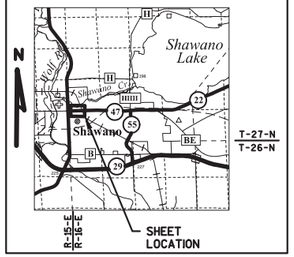
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PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	R/W ACRES REQUIRED EXISTING	R/W ACRES REQUIRED TOTAL	TLE ACRES
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UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
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LOCATION SKETCH NOT TO SCALE

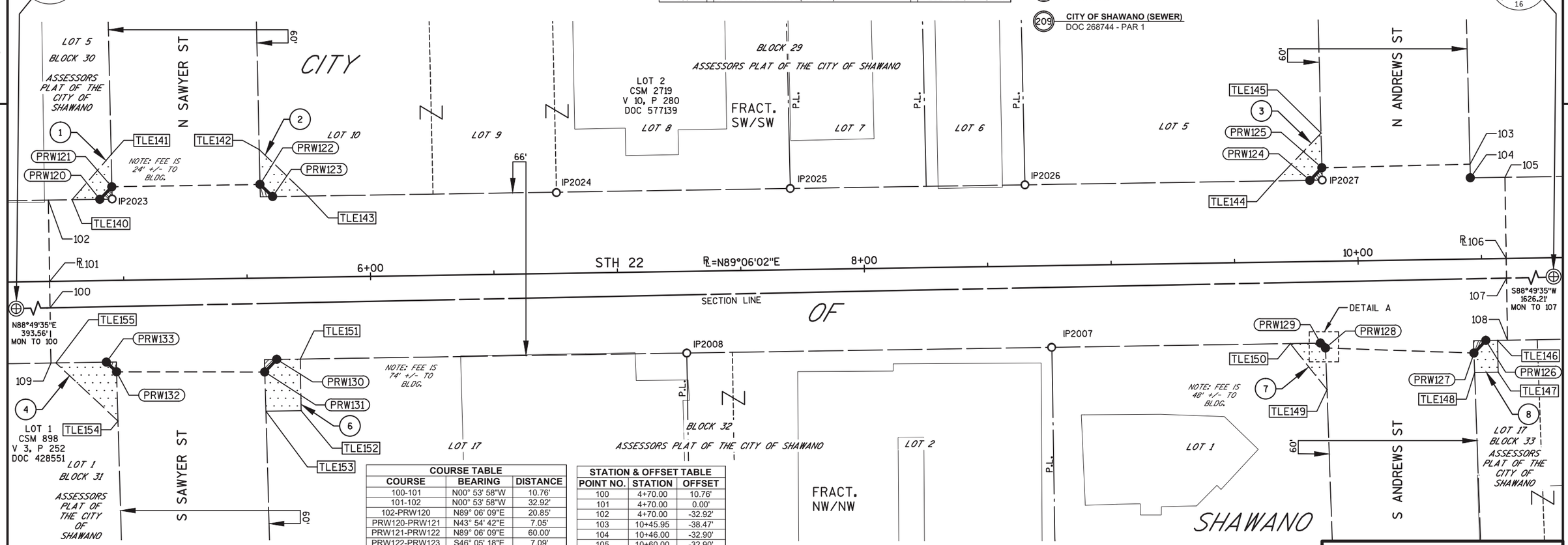


DOC # 722987
Recorded
April 19, 2017 9:31 AM
AMY DILLENBURG
REGISTER OF DEEDS
SHAWANO WI
Fee Amount: $25.00
Slide 8-312

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9180-23-22-4.01
AMENDMENT NO:---
SHEET 1 OF 2

FOUND MAG NAIL
Y = 271925.280
X = 860014.010

FOUND MAG NAIL
Y = 271978.833
X = 862628.231



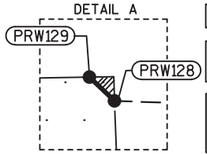
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IP2024	271980.150	860617.579	0.75" IRON ROD
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IP2027	271985.238	860927.729	SURVEY NAIL
IP2007	271917.423	860818.151	MAG NAIL
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TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
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TLE152	5+71.00	54.00'
TLE153	5+56.76	54.00'
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DETAIL A



SCALE, FEET 0 20 40

GN

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REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, FOR ADDITIONAL INFORMATION.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN RHINELANDER.

emcs, inc

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT COMPLIANCE WITH IN FULL THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 9180-23-22-4.01 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

DATE: 3-8-2017
TIMOTHY G. RUTZEN JR.
PROFESSIONAL LAND SURVEYOR NUMBER 2994

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF SHAWANO
(SIGNATURE) DATE: 4-17-17
(PRINTED NAME)

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\TPP\9180-23-22 PLAT_CITY\040101_RP.DWG
PLOT DATE : 4/25/2017 1:34 PM
PLOT BY : TIM RUTZEN
PLOT NAME :
PLOT SCALE : **********
APPRAISAL PLAT DATE : ----------

9180-23-22-4.01

COMPOSITE DRAWING, ORIGINAL ON FILE AT THE COUNTY REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 9180-23-22-4.02 AMENDMENT NO.1

AMENDMENT REVISES PARCEL 14 OF TRANSPORTATION PROJECT PLAT NO: 9180-23-22-4.02, RECORDED AS DOCUMENT NO. 723176.

THAT PART OF LOTS 1 & 4, BLOCK 1 AND LOT 1, BLOCK 2 OF SHANAHAN'S ADDITION TO THE VILLAGE OF SHAWANO LOCATED IN THE SE 1/4 OF THE SW 1/4, ALSO PART OF THE FRACTIONAL SW 1/4 OF THE SW 1/4, IN SECTION 30, PART OF LOTS 1 & 4, BLOCK 1 AND LOTS 3 & 4, BLOCK 14 OF NABER AND RUEDEBUSCH ADDITION TO THE CITY OF SHAWANO, LOT 1 OF CSM 3686, LOCATED IN THE NE 1/4 OF THE NW 1/4, PART OF LOT 2, BLOCK 33 OF THE SAWYER AND ANDREWS PLAT, ACCORDING TO THE ASSESSORS PLAT OF THE CITY OF SHAWANO, LOCATED IN FRACTIONAL THE NW 1/4 OF THE NW 1/4 IN SECTION 31, ALL IN TOWNSHIP 27 NORTH, RANGE 16 EAST, CITY OF SHAWANO, SHAWANO COUNTY, WISCONSIN.

RELOCATION ORDER STH 22 SHAWANO COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF SHAWANO DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF SHAWANO HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
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SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

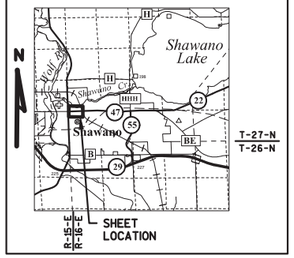
PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	R/W ACRES REQUIRED EXISTING	R/W ACRES REQUIRED TOTAL	TLE ACRES
9	SALLY A DILLENBERG & PATRICIA R DILLENBERG	FEE/TLE	0.002	---	0.002	0.003
11	GNI OF SHAWANO, LLC	FEE/TLE	0.003	---	0.003	0.003
12	WARREN L MOEDE TESTAMENTARY TRUST	TLE	---	---	---	0.002
13	MSB, LLC	TLE	---	---	---	0.003
14	SHAWANO 404 EAST GREEN BAY WI, LLC	FEE/TLE	0.003	---	0.003	0.003
16	DAVID J & JULIE A FEIVOR	FEE/TLE	0.001	---	0.001	0.004
17	HUNTINGTON PROPERTIES, LLC	TLE	---	---	---	0.022
18	DANIEL J & LISA J KRETSCHMANN	TLE	---	---	---	0.002

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	FRONTIER NORTH INC.	RELEASE OF RIGHTS

(200) FRONTIER NORTH INC.
DOC 334311 - PAR 16

LOCATION SKETCH NOT TO SCALE



DOC # 723793
Recorded
May 15, 2017 2:13 PM
AMY DILLENBURG
REGISTER OF DEEDS
SHAWANO WI
Fee Amount: $25.00
Slide B-313

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9180-23-22-4.02
AMENDMENT NO:.1.

FOUND MAG NAIL
Y = 271978.833
X = 862628.231

FOUND MAG NAIL
Y = 271925.280
X = 860014.010

FRACT. SW/SW

CITY

N LINCOLN ST
1/16 LINE

63'

TLE241
PRW221
NOTE: FEE IS 36' +/- TO BLDG.
9
PRW220
TLE240
202

PRW222
LOT 1
11
IP2030
PRW223
IP2029

BLOCK 1
SHANAHAN'S ADDITION TO THE VILLAGE OF SHAWANO
LOT 2
LOT 3
LOT 1
CSM 1406
V 5, P 182
DOC 490082
66'

SE/SW
60'
N UNION ST
LOT 4
TLE243
11
PRW225
TLE242
IP2031
PRW224

P.L.
LOT 1
BLOCK 2
SHANAHAN'S ADDITION TO THE VILLAGE OF SHAWANO
LOT 2
203
TLE244
12
TLE245
TLE246
IP2032
205
IP2033
IP2034

℄ 201
14+00
℄=N89°06'02"E
STH 22
16+00
18+00
℄ 206
N88°49'35"E
1228.57'
MON TO 200
200
SECTION LINE
207
S88°49'35"W
886.20'
MON TO 207

OF

212
213
TLE260
13
LOT 2
BLOCK 33
ASSESSORS PLAT OF THE CITY OF SHAWANO
TLE259
211
63'
FRACT. NW/NW
S LINCOLN ST
1/16 LINE

NOTE: FEE IS 26' +/- TO BLDG.
TLE257
PRW228
PRW229
14
LOT 4
TLE258
LOT 1
CSM 3686
V 16, P 58
DOC 654163

LOT 3
P.L.
BLOCK 1
LOT 2
NABER AND RUEDEBUSCH ADDITION TO THE CITY OF SHAWANO

NOTE: FEE IS 6' +/- TO BLDG.
PRW227
IP2004
TLE256
TLE255
16
TLE254
LOT 1
TLE253
TLE252
NE/NW
PRW226
S UNION ST
109

TLE FOR DRIVEWAY CONSTRUCTION
209
208
IP2003
TLE247
18
LOT 3
TLE248
210
LOT 4
TLE249
17
TLE250
TLE251
BLOCK 14
NABER AND RUEDEBUSCH ADDITION TO THE CITY OF SHAWANO

GN
P.L.

SHAWANO

SCALE, FEET 0 20 40

COURSE TABLE		
COURSE	BEARING	DISTANCE
200-201	N00° 53' 58"W	6.79'
201-202	N00° 53' 58"W	32.89'
202-PRW220	N89° 06' 09"E	23.87'
PRW220-PRW221	N47° 23' 16"E	33.14'
PRW221-PRW222	N89° 04' 33"E	63.00'
PRW222-PRW223	S48° 38' 37"E	32.84'
PRW223-PRW224	N89° 06' 09"E	222.35'
PRW224-PRW225	N25° 24' 53"E	12.41'
PRW225-203	N89° 21' 21"E	60.00'
203-IP2032	S00° 38' 39"E	10.86'
IP2032-205	N89° 06' 09"E	76.29'
205-206	S00° 53' 58"E	32.87'
206-207	S00° 53' 58"E	4.40'
207-208	S00° 53' 58"E	28.73'
208-209	S89° 06' 09"W	88.40'
209-210	S03° 05' 24"E	6.59'
210-PRW226	S86° 54' 36"W	60.00'
PRW226-PRW227	N42° 32' 56"W	11.88'
PRW227-PRW228	S89° 06' 09"W	219.00'
PRW228-PRW229	S46° 59' 30"W	36.22'
PRW229-211	S81° 20' 55"W	63.32'
211-212	N46° 53' 06"W	47.25'
212-213	S89° 06' 09"W	1.41'
213-200	N00° 53' 58"W	26.32'

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
200	13+00.00	6.79'
201	13+00.00	0.00'
202	13+00.00	-32.89'
203	17+23.76	-43.73'
IP2032	17+23.71	-32.88'
205	18+00.00	-32.78'
206	18+00.00	0.000'
207	18+00.00	4.40'
208	18+00.00	33.13'
209	17+11.60	33.12'
210	17+11.85	39.71'
211	13+35.39	65.94'
212	13+01.41	33.11'
213	13+00.00	33.11'
PRW220	13+23.87	-32.89'
PRW221	13+48.61	-54.94'
PRW222	14+11.61	-54.97'
PRW223	14+35.92	-32.89'
PRW224	16+58.26	-32.88'
PRW225	16+63.76	-44.00'
PRW226	16+51.90	42.00'
PRW227	16+44.00	33.12'
PRW228	14+25.00	33.11'
PRW229	13+98.13	57.40'

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE240	13+18.00	-32.89'
TLE241	13+48.64	-60.33'
TLE242	16+46.26	-32.88'
TLE243	16+63.79	-49.00'
TLE244	17+23.73	-37.00'
TLE245	17+40.00	-37.00'
TLE246	17+40.00	-32.88'
TLE247	17+95.00	33.13'
TLE248	17+95.00	45.00'
TLE249	17+25.00	45.00'
TLE250	17+20.00	50.00'
TLE251	17+12.25	50.00'
TLE252	16+52.70	63.00'
TLE253	16+49.81	63.00'
TLE254	16+48.34	38.00'
TLE255	16+28.00	38.00'
TLE256	16+28.00	33.12'
TLE257	14+29.47	33.11'
TLE258	13+98.27	61.32'
TLE259	13+34.66	60.00'
TLE260	13+08.00	33.75'

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP2003	271932.640	861808.372	1.25" O.D. IRON PIPE
IP2004	271929.683	861594.320	1.25" O.D. IRON PIPE
IP2029	271991.857	861373.316	CHISELED X
IP2030	272009.511	861352.990	CHISELED X
IP2031	271995.850	861605.323	2.00" O.D. IRON PIPE
IP2032	271996.753	861665.357	1.00" O.D. IRON PIPE
IP2033	271997.703	861740.538	1.25" O.D. IRON PIPE
IP2034	271998.682	861791.313	1.25" O.D. IRON PIPE

ALL TLES ARE FOR SLOPE GRADING PURPOSES, UNLESS NOTED

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN RHINELANDER.

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN SLIDE B-312 OF TRANSPORTATION PROJECT PLATS, AS DOCUMENT NO. 723545 FOR ADDITIONAL INFORMATION.

emcs.inc

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT COMPLIANCE WITH IN FULL THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 9180-23-22-4.02-A1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

DATE: 5-10-2017
TIMOTHY G. RUTZEN JR.
PROFESSIONAL LAND SURVEYOR NUMBER 2994

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF SHAWANO

(SIGNATURE) DATE: 5-10-2017
(PRINTED NAME) E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\TPP\9180-23-22 PLAT_CITY\040102_A1_RP.DWG
PLOT DATE : 5/16/2017 11:06 AM
PLOT BY : TIM RUTZEN
PLOT NAME :
PLOT SCALE : **********
APPRAISAL PLAT DATE : ----------

9180-23-22-4.02-A1

COMPOSITE DRAWING, ORIGINAL ON FILE AT THE COUNTY REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 9180-23-22-4.02

THAT PART OF LOTS 1 & 4, BLOCK 1 AND LOT 1, BLOCK 2 OF SHANAHAN'S ADDITION TO THE VILLAGE OF SHAWANO LOCATED IN THE SE 1/4 OF THE SW 1/4, ALSO PART OF THE FRACTIONAL SW 1/4 OF THE SW 1/4, IN SECTION 30, PART OF LOTS 1 & 4, BLOCK 1 AND LOTS 3 & 4, BLOCK 14 OF NABER AND RUEDEBUSCH ADDITION TO THE CITY OF SHAWANO, LOT 1 OF CSM 3686, LOCATED IN THE NE 1/4 OF THE NW 1/4, PART OF LOT 2, BLOCK 33 OF THE SAWYER AND ANDREWS PLAT, ACCORDING TO THE ASSESSORS PLAT OF THE CITY OF SHAWANO, LOCATED IN FRACTIONAL THE NW 1/4 OF THE NW 1/4 IN SECTION 31, ALL IN TOWNSHIP 27 NORTH, RANGE 16 EAST, CITY OF SHAWANO, SHAWANO COUNTY, WISCONSIN.

RELOCATION ORDER STH 22 SHAWANO COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF SHAWANO DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF SHAWANO HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF SHAWANO, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

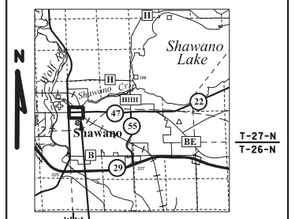
PARCEL		INTEREST	R/W ACRES REQUIRED			HE	TLE
NUMBER	OWNERS	REQUIRED	NEW	EXISTING	TOTAL	ACRES	ACRES
9	SALLY A DILLENBERG & PATRICIA R DILLENBERG	FEE/TLE	0.002	---	0.002	---	0.003
11	GNI OF SHAWANO, LLC	FEE/TLE	0.003	---	0.003	---	0.003
12	WARREN L MOEDE TESTAMENTARY TRUST	TLE	---	---	---	---	0.002
13	MSB, LLC	TLE	---	---	---	---	0.003
14	SHAWANO 404 EAST GREEN BAY WI, LLC	HE/TLE	---	---	---	0.003	0.003
16	DAVID J & JULIE A FEIVOR	FEE/TLE	0.001	---	0.001	---	0.004
17	HUNTINGTON PROPERTIES, LLC	TLE	---	---	---	---	0.022
18	DANIEL J & LISA J KRETSCHMANN	TLE	---	---	---	---	0.002

UTILITY INTERESTS REQUIRED

UTILITY		INTEREST
NUMBER	OWNER(S)	REQUIRED
200	FRONTIER NORTH INC.	RELEASE OF RIGHTS

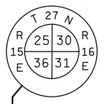
200 FRONTIER NORTH INC.
DOC 334311 - PAR 16

LOCATION SKETCH NOT TO SCALE



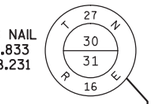
DOC # 723176
Recorded
April 25, 2017 11:26 AM
DAVY DILLENBURG
REGISTER OF DEEDS
SHAWANO WI
Fee Amount: $25.00
Slide B-313

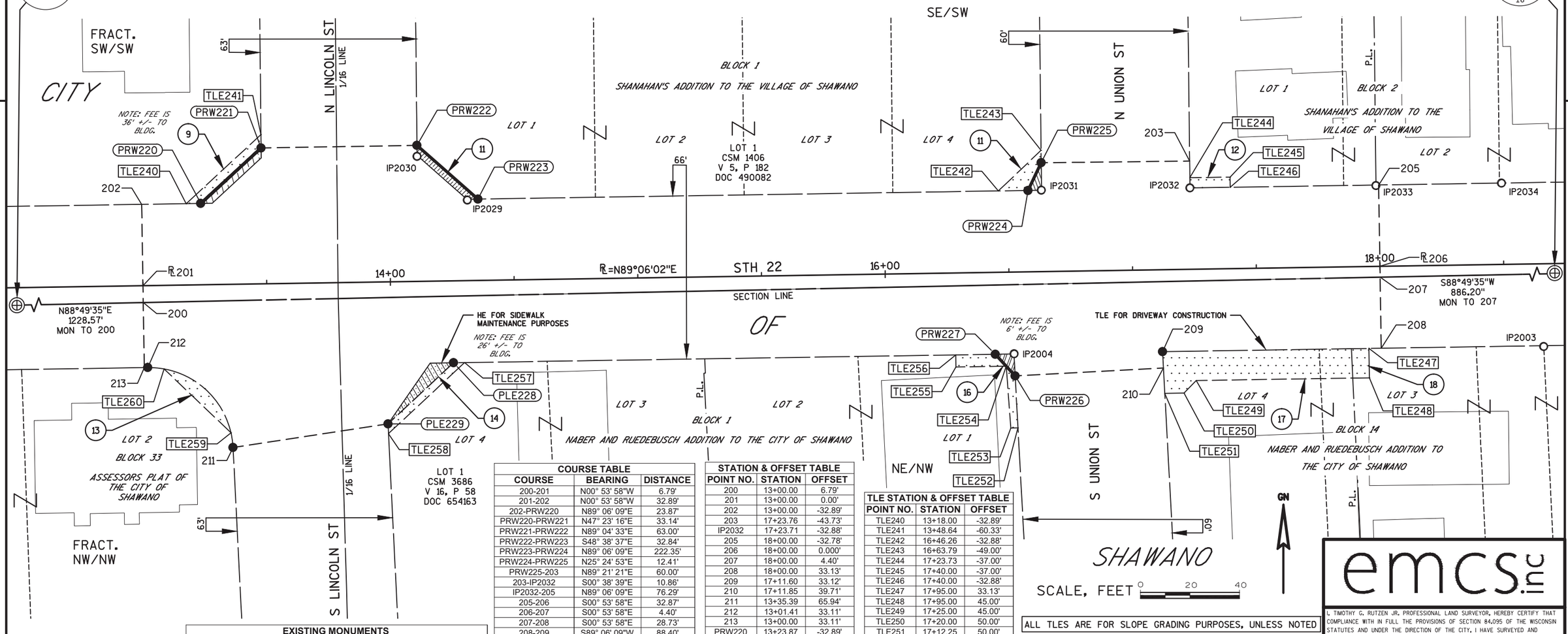
RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9180-23-22-4.02
AMENDMENT NO:---



FOUND MAG NAIL
Y = 271925.280
X = 860014.010

FOUND MAG NAIL
Y = 271978.833
X = 862628.231





COURSE TABLE		
COURSE	BEARING	DISTANCE
200-201	N00° 53' 58"W	6.79'
201-202	N00° 53' 58"W	32.89'
202-PRW220	N89° 06' 09"E	23.87'
PRW220-PRW221	N47° 23' 16"E	33.14'
PRW221-PRW222	N89° 04' 33"E	63.00'
PRW222-PRW223	S48° 38' 37"E	32.84'
PRW223-PRW224	N89° 06' 09"E	222.35'
PRW224-PRW225	N25° 24' 53"E	12.41'
PRW225-203	N89° 21' 21"E	60.00'
203-IP2032	S00° 38' 39"E	10.86'
IP2032-205	N89° 06' 09"E	76.29'
205-206	S00° 53' 58"E	32.87'
206-207	S00° 53' 58"E	4.40'
207-208	S00° 53' 58"E	28.73'
208-209	S89° 06' 09"W	88.40'
209-210	S03° 05' 24"E	6.59'
210-PRW226	S86° 54' 36"W	60.00'
PRW226-PRW227	N42° 32' 56"W	11.88'
PRW227-PLE228	S89° 06' 09"W	219.00'
PLE228-PLE229	S46° 59' 30"W	36.22'
PLE229-211	S81° 20' 55"W	63.32'
211-212	N46° 53' 06"W	47.25'
212-213	S89° 06' 09"W	1.41'
213-200	N00° 53' 58"W	26.32'

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
200	13+00.00	6.79'
201	13+00.00	0.00'
202	13+00.00	-32.89'
203	17+23.76	-43.73'
IP2032	17+23.71	-32.88'
205	18+00.00	-32.78'
206	18+00.00	0.000'
207	18+00.00	4.40'
208	18+00.00	33.13'
209	17+11.60	33.12'
210	17+11.85	39.71'
211	13+35.39	65.94'
212	13+01.41	33.11'
213	13+00.00	33.11'
PRW220	13+23.87	-32.89'
PRW221	13+48.61	-54.94'
PRW222	14+11.61	-54.97'
PRW223	14+35.92	-32.89'
PRW224	16+58.26	-32.88'
PRW225	16+63.76	-44.00'
PRW226	16+51.90	42.00'
PRW227	16+44.00	33.12'
PRW228	14+25.00	33.11'
PRW229	13+98.13	57.40'

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE240	13+18.00	-32.89'
TLE241	13+48.64	-60.33'
TLE242	16+46.26	-32.88'
TLE243	16+63.79	-49.00'
TLE244	17+23.73	-37.00'
TLE245	17+40.00	-37.00'
TLE246	17+40.00	-32.88'
TLE247	17+95.00	33.13'
TLE248	17+95.00	45.00'
TLE249	17+25.00	45.00'
TLE250	17+20.00	50.00'
TLE251	17+12.25	50.00'
TLE252	16+52.70	63.00'
TLE253	16+49.81	63.00'
TLE254	16+48.34	38.00'
TLE255	16+28.00	38.00'
TLE256	16+28.00	33.12'
TLE257	14+29.47	33.11'
TLE258	13+98.27	61.32'
TLE259	13+34.66	60.00'
TLE260	13+08.00	33.75'

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP2003	271932.640	861808.372	1.25" O.D. IRON PIPE
IP2004	271929.683	861594.320	1.25" O.D. IRON PIPE
IP2029	271991.857	861373.316	CHISELED X
IP2030	272009.511	861352.990	CHISELED X
IP2031	271995.850	861605.323	2.00" O.D. IRON PIPE
IP2032	271996.753	861665.357	1.00" O.D. IRON PIPE
IP2033	271997.703	861740.538	1.25" O.D. IRON PIPE
IP2034	271998.682	861791.313	1.25" O.D. IRON PIPE

ALL TLES ARE FOR SLOPE GRADING PURPOSES, UNLESS NOTED

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN RHINELANDER.

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN SLIDE B-312 OF TRANSPORTATION PROJECT PLATS, AS DOCUMENT NO. 722987 FOR ADDITIONAL INFORMATION.

emcs inc

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT COMPLIANCE WITH IN FULL THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 9180-23-22-4.02 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

DATE: 4-19-2017
TIMOTHY G. RUTZEN JR.
PROFESSIONAL LAND SURVEYOR NUMBER 2994

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF SHAWANO

DATE: 4-24-17
(SIGNATURE)
(PRINTED NAME)

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\TPP\9180-23-22 PLAT_CITY\040102_RP.DWG
PLOT DATE : 4/25/2017 3:32 PM
PLOT BY : TIM RUTZEN
PLOT NAME :
PLOT SCALE : **********
APPRAISAL PLAT DATE : ----------

COMPOSITE DRAWING, ORIGINAL ON FILE AT THE COUNTY REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 9180-23-22-4.03

THAT PART OF LOTS 3 & 4, BLOCK 3, LOTS 1, 2, 3 & 4, BLOCK 4 AND VACATED WASHBURN STREET OF THE SHANAHAN'S ADDITION TO THE VILLAGE OF SHAWANO LOCATED IN THE SE 1/4 OF THE SW 1/4, ALSO PART OF LOT 3, BLOCK 4 OF THE ASSESSORS PLAT OF THE CITY OF SHAWANO, LOCATED IN THE SW 1/4 OF THE SE 1/4, SECTION 30; ALSO PART OF LOTS 1, 2 & 3, BLOCK 9 AND LOT 5, BLOCK 8 OF THE ASSESSORS PLAT OF THE CITY OF SHAWANO, PART OF LOT 1, CSM 3989, LOT 1 & 2, CSM 2261, ALL BEING LOCATED IN THE NE 1/4 OF THE NW 1/4, SECTION 31, TOWNSHIP 27 NORTH, RANGE 16 EAST, CITY OF SHAWANO, SHAWANO COUNTY, WISCONSIN.

RELOCATION ORDER STH 22 SHAWANO COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF SHAWANO DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF SHAWANO HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF SHAWANO, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	HE ACRES	PLE ACRES	TLE ACRES
19	WISCONSIN CENTRAL, LTD	HE/TLE	---	---	---	0.041		0.031
20	VIOLET M. ROLOFF, A WIDOW, AS VENDOR; AND ROLOFF FAMILY LIMITED PARTNERSHIP, AS VENDEE UNDER LAND CONTRACT RECORDED SEPTEMBER 2, 2011	PLE/TLE	---	---	---	---	0.006	0.054
21	DOUGLAS P BURRIS	FEE/TLE	0.001	---	0.001	---	---	0.037
22	ALL FLOORS & MORE, INC	FEE/TLE	0.001	---	0.001	---	---	0.004
23	JEFFERY E SMITH	TLE	---	---	---	---	---	0.013
24	TAMMY BURRIS	TLE	---	---	---	---	---	0.042
26	UNITED COMPANIES, LLC	TLE	---	---	---	---	---	0.028
27	LEISURE BOATING #5, LLC	TLE	---	---	---	---	---	0.026

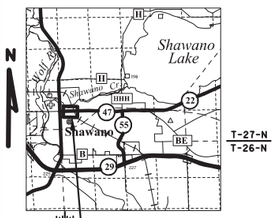
UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
206	SHAWANO MUNICIPAL UTILITIES (ELECTRIC)	RELEASE OF RIGHTS
210	CITY OF SHAWANO (WATER)	RELEASE OF RIGHTS

(206) SHAWANO MUNICIPAL UTILITIES (ELECTRIC)
DOC 549831 - PAR 27

(210) CITY OF SHAWANO (WATER)
DOC 409512 - PAR 21

LOCATION SKETCH NOT TO SCALE



DOC # 723177
Recorded
April 25, 2017 11:26 AM
AMY DILLENBURG
REGISTER OF DEEDS
SHAWANO WI
Fee Amount: $25.00
Slide B-313

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9180-23-22-4.03
AMENDMENT NO:---

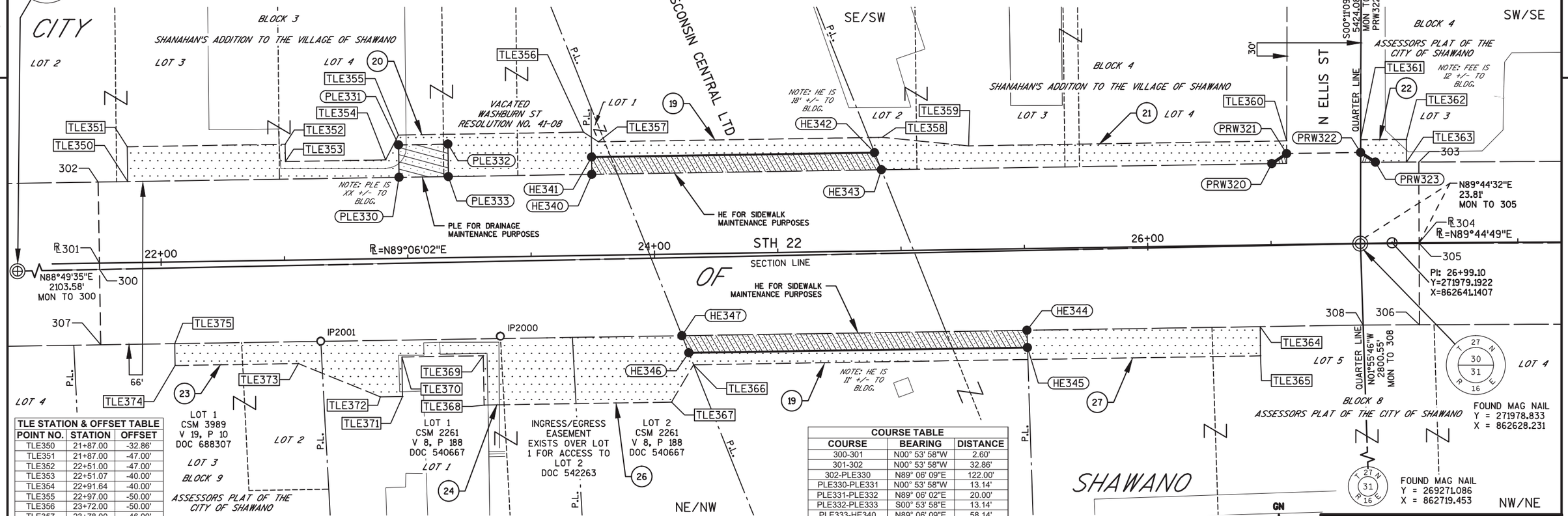
T 27 N R 15 E Sec 25 30 31 36 R 16 E

FOUND MAG NAIL
Y = 271925.280
X = 860014.010

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP2000	271941.302	862279.632	MAG NAIL
IP2001	271939.291	862206.802	1.25" O.D. IRON PIPE

T 27 N R 16 E Sec 19 30

FOUND SURVEY NAIL
Y = 277377.095
X = 862644.282



FOUND MAG NAIL
Y = 271978.833
X = 862628.231

FOUND MAG NAIL
Y = 269271.086
X = 862719.453

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE350	21+87.00	-32.86'
TLE351	21+87.00	-47.00'
TLE352	22+51.00	-47.00'
TLE353	22+51.07	-40.00'
TLE354	22+91.64	-40.00'
TLE355	22+97.00	-50.00'
TLE356	23+72.00	-50.00'
TLE357	23+78.00	-46.00'
TLE358	24+93.00	-46.00'
TLE359	25+28.00	-42.00'
TLE360	26+56.96	-42.00'
TLE361	26+86.96	-42.00'
TLE362	27+05.00	-41.86'
TLE363	27+05.00	-32.70'
TLE364	26+45.00	33.16'
TLE365	26+45.00	45.00'
TLE366	24+15.15	45.00'
TLE367	24+06.00	60.00'
TLE368	23+30.00	60.00'
TLE369	23+30.00	40.00'
TLE370	22+97.00	40.00'
TLE371	22+97.00	56.00'
TLE372	22+88.00	56.00'
TLE373	22+55.00	42.00'
TLE374	22+05.00	42.00'
TLE375	22+05.00	33.14'

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
PRW320	26+50.79	-32.85'
PRW321	26+56.86	-36.84'
PRW322	26+86.87	-36.84'
PRW323	26+92.80	-32.77'
PLE330	22+97.00	-32.86'
PLE331	22+97.00	-46.00'
PLE332	23+17.00	-46.00'
PLE333	23+17.00	-32.86'
HE340	23+75.14	-32.85'
HE341	23+75.16	-39.85'
HE342	24+89.86	-39.85'
HE343	24+92.52	-32.85'
HE344	25+50.48	33.15'
HE345	25+50.60	40.15'
HE346	24+13.31	40.15'
HE347	24+10.64	33.15'

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
300	21+75.00	2.60'
301	21+75.00	0.00'
302	21+75.00	-32.86'
303	27+10.00	-32.70'
304	27+10.00	0.00'
305	27+10.00	0.30'
306	27+10.00	33.30'
307	21+75.00	33.14'
308	26+86.78	33.17'

COURSE TABLE		
COURSE	BEARING	DISTANCE
300-301	N00° 53' 58"W	2.60'
301-302	N00° 53' 58"W	32.86'
302-PLE330	N89° 06' 09"E	122.00'
PLE330-PLE331	N00° 53' 58"W	13.14'
PLE331-PLE332	N89° 06' 02"E	20.00'
PLE332-PLE333	S00° 53' 58"E	13.14'
PLE333-HE340	N89° 06' 09"E	58.14'
HE340-HE341	N00° 41' 03"W	7.00'
HE341-HE342	N89° 06' 09"E	114.70'
HE342-HE343	S21° 44' 09"E	7.49'
HE343-PRW320	N89° 06' 09"E	158.27'
PRW320-PRW321	N55° 44' 05"E	7.27'
PRW321-PRW322	N89° 06' 03"E	30.01'
PRW322-PRW323	S56° 26' 30"E	7.20'
PRW323-303	N89° 44' 32"E	17.57'
303-304	S00° 15' 11"E	32.70'
304-305	S00° 15' 11"E	0.30'
305-306	S00° 15' 11"E	33.00'
306-308	S89° 44' 32"W	22.84'
308-HE344	S89° 06' 22"W	136.30'
HE344-HE345	S01° 52' 28"E	7.00'
HE345-HE346	S89° 06' 09"W	137.29'
HE346-HE347	N21° 44' 09"W	7.49'
HE347-307	S89° 06' 09"W	235.64'
307-300	N00° 53' 58"W	30.54'

GN

SCALE, FEET 0 20 40

ALL TLES ARE FOR SLOPE GRADING PURPOSES

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN SLIDE B-312 OF TRANSPORTATION PROJECT PLATS, AS DOCUMENT NO. 722987 FOR ADDITIONAL INFORMATION.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN RHINELANDER.

emcs inc

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT COMPLIANCE WITH IN FULL THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 9180-23-22-4.03 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

DATE: 4-19-2017
TIMOTHY G. RUTZEN JR.
PROFESSIONAL LAND SURVEYOR NUMBER 2994

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF SHAWANO

DATE: 4-24-17
(SIGNATURE)
(PRINTED NAME)

9180-23-22-4.03

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\TPP\9180-23-22 PLAT_CITY\040103_RP.DWG
PLOT DATE : 4/25/2017 3:36 PM PLOT BY : TIM RUTZEN PLOT NAME : PLOT SCALE : **********
APPRAISAL PLAT DATE : ----------

COMPOSITE DRAWING, ORIGINAL ON FILE AT THE COUNTY REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 9180-23-22-4.04

THAT PART OF LOT 1, BLOCK 3 OF THE ASSESSORS PLAT OF THE CITY OF SHAWANO, LOT 1 OF CSM 2575, LOCATED IN THE SW 1/4 OF THE SE 1/4 OF SECTION 30, ALSO PART OF LOT 1, CSM 3339, LOT 1, BLOCK 8 OF THE ASSESSORS PLAT OF THE CITY OF SHAWANO, LOCATED IN THE NW 1/4 OF THE NE 1/4, SECTION 31, ALL LOCATED IN TOWNSHIP 27 NORTH, RANGE 16 EAST, CITY OF SHAWANO, SHAWANO COUNTY, WISCONSIN.

RELOCATION ORDER STH 22 SHAWANO COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF SHAWANO DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF SHAWANO HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF SHAWANO, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
28	FIRST NORTHERN SAVINGS BANK, S.A. N/K/A/ BANK MUTUAL	FEE/TLE	0.001	---	0.001	0.002
29	ANTIGO CO-OP CREDIT UNIION	FEE/TLE	0.002	---	0.002	0.001
31	ANTHONY L ZIELINSKI, JR	FEE/TLE	0.004	---	0.004	0.004

THE AREA SHOWN IN THE SCHEDULE OF LANDS AND INTERESTS IS ONLY THE AREA OF THE PARCEL SHOWN ON THIS SHEET. IF THE PARCEL IS ON MULTIPLE SHEETS, REFERENCE THE OTHER SHEET(S) FOR ADDITIONAL PARCEL AREAS.

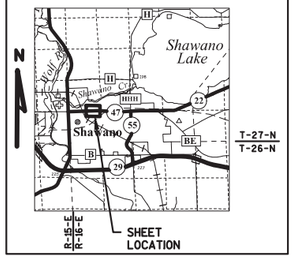
UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	FRONTIER NORTH INC.	RELEASE OF RIGHTS
206	SHAWANO MUNICIPAL UTILITIES (ELECTRIC)	RELEASE OF RIGHTS

(200) **FRONTIER NORTH INC.**
DOC 331099 - PAR 31

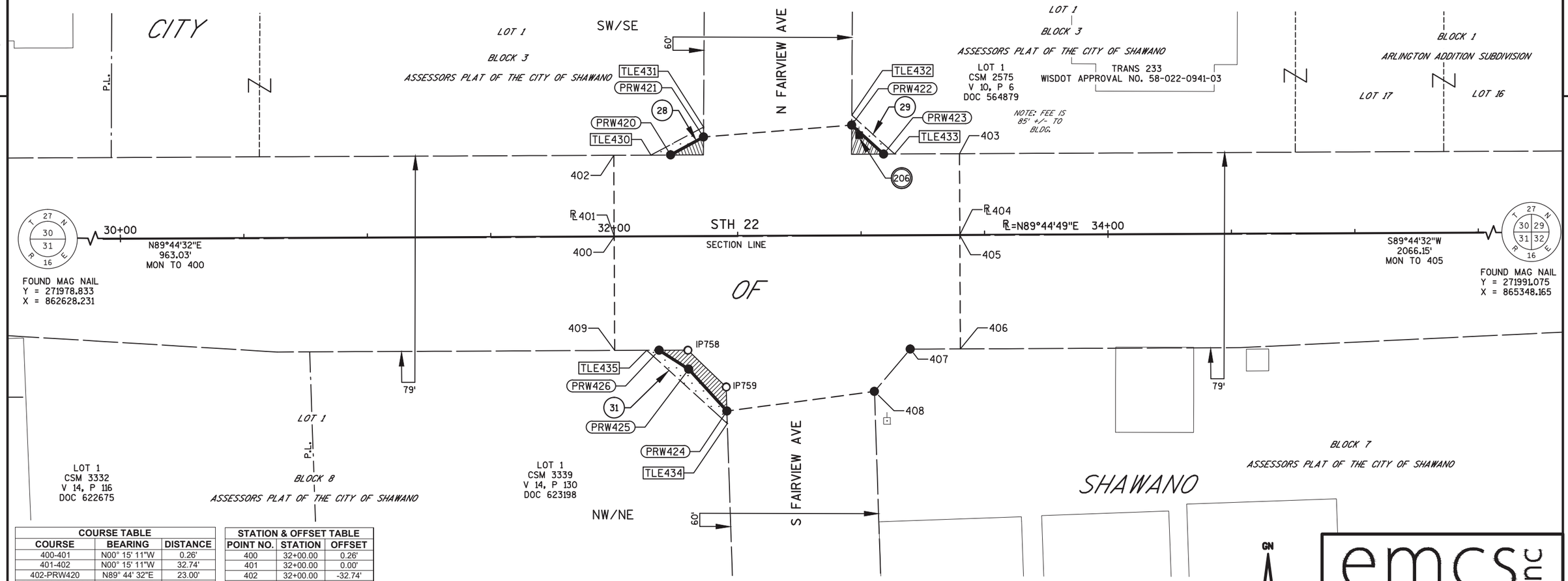
(206) **SHAWANO MUNICIPAL UTILITIES (ELECTRIC)**
DOC 564879, PER CSM 2575 - PAR 29

LOCATION SKETCH NOT TO SCALE



DOC # 723178
Recorded
April 25, 2017 11:26 AM
AMY DILLENBURG
REGISTER OF DEEDS
SHAWANO WI
Fee Amount: $25.00
Slide B-313

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9180-23-22-4.04
AMENDMENT NO:---



COURSE TABLE		
COURSE	BEARING	DISTANCE
400-401	N00° 15' 11"W	0.26'
401-402	N00° 15' 11"W	32.74'
402-PRW420	N89° 44' 32"E	23.00'
PRW420-PRW421	N61° 14' 52"E	15.21'
PRW421-PRW422	N85° 28' 11"E	60.21'
PRW422-PRW423	S47° 50' 56"E	17.41'
PRW423-403	N89° 44' 32"E	30.73'
403-404	S00° 15' 11"E	32.75'
404-405	S00° 15' 11"E	0.25'
405-406	S00° 15' 11"E	46.00'
406-407	S89° 44' 32"W	20.29'
407-408	S40° 15' 01"W	22.42'
408-PRW424	S82° 24' 15"W	60.30'
PRW424-PRW425	N42° 19' 22"W	22.90'
PRW425-PRW426	N57° 25' 14"W	14.28'
PRW426-409	S89° 44' 32"W	18.00'
409-400	N00° 15' 11"W	46.00'

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
400	32+00.00	0.26'
401	32+00.00	0.00'
402	32+00.00	-32.74'
403	33+40.00	-32.75'
404	33+40.00	0.00'
405	33+40.00	0.25'
406	33+40.00	46.25'
407	33+19.71	46.25'
408	33+05.15	63.29'
409	32+00.00	46.26'
PRW420	32+23.00	-32.74'
PRW421	32+36.37	-40.00'
PRW422	32+96.41	-44.49'
PRW423	33+09.27	-32.75'
PRW424	32+45.34	71.00'
PRW425	32+30.00	54.00'
PRW426	32+18.00	46.26'

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE430	32+15.01	-32.74'
TLE431	32+36.41	-44.00'
TLE432	32+96.45	-48.52'
TLE433	33+13.72	-32.75'
TLE434	32+45.49	76.01'
TLE435	32+13.01	46.26'

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP758	271935.229	863171.934	MAGNAIL
IP759	271920.342	863187.443	1.25" O.D. IRON PIPE

ALL TLES ARE FOR SLOPE GRADING PURPOSES

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN SLIDE B-312 OF TRANSPORTATION PROJECT PLATS, AS DOCUMENT NO. 722987 FOR ADDITIONAL INFORMATION.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN RHINELANDER.

GN

SCALE, FEET 0 20 40

emcs inc

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT COMPLIANCE WITH IN FULL THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 9180-23-22-4.04 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

DATE: 4-19-2017
TIMOTHY G. RUTZEN JR.
PROFESSIONAL LAND SURVEYOR NUMBER 2994

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF SHAWANO

(SIGNATURE) DATE: 4-24-17
(PRINTED NAME)

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\TPP\9180-23-22 PLAT_CITY\040104_RP.DWG
PLOT DATE : 4/25/2017 3:38 PM PLOT BY : TIM RUTZEN PLOT NAME : PLOT SCALE : **********
APPRAISAL PLAT DATE : ----------

COMPOSITE DRAWING, ORIGINAL ON FILE AT THE COUNTY REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 9180-23-22-4.05
AMENDMENT NO. 1

AMENDMENT REVISES PARCEL 37 OF TRANSPORTATION PROJECT PLAT NO: 9180-23-22-4.05, RECORDED AS DOCUMENT NO. 723179.

THAT PART LOTS 10, 11, 12, 13, 14, 15 & 16, BLOCK 1 OF ARLINGTON ADDITION SUBDIVISION, LOCATED IN THE SW 1/4 OF THE SE 1/4, PART OF LOT 24, BLOCK 10 OF ARLINGTON ADDITION SUBDIVISION, LOCATED IN THE SE 1/4 OF THE SE 1/4, ALL LOCATED IN SECTION 30, TOWNSHIP 27 NORTH, RANGE 16 EAST, CITY OF SHAWANO, SHAWANO COUNTY, WISCONSIN.

RELOCATION ORDER STH 22 SHAWANO COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF SHAWANO DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF SHAWANO HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF SHAWANO, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

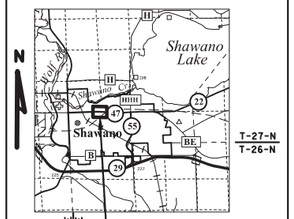
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	R/W ACRES REQUIRED EXISTING	R/W ACRES REQUIRED TOTAL	TLE ACRES
29	ANTIGO CO-OP CREDIT UNIION	TLE	---	---	---	0.001
33	VIOLET M. ROLOFF, A WIDOW, AS VENDOR; AND ROLOFF FAMILY LIMITED PARTNERSHIP, AS VENDEE UNDER LAND CONTRACT RECORDED SEPTEMBER 2, 2011	TLE	---	---	---	0.072
34	ROBERT J FISCHER REVOCABLE LIVING TRUST	TLE	---	---	---	0.024
36	MIDWEST PROPERTIES OF SHAWANO, LLC	TLE	---	---	---	0.031
37	RIJS, LLC	TLE	---	---	---	0.002

THE AREA SHOWN IN THE SCHEDULE OF LANDS AND INTERESTS IS ONLY THE AREA OF THE PARCEL SHOWN ON THIS SHEET. IF THE PARCEL IS ON MULTIPLE SHEETS, REFERENCE THE OTHER SHEET(S) FOR ADDITIONAL PARCEL AREAS.

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP2064	272017.301	863838.647	PK NAIL

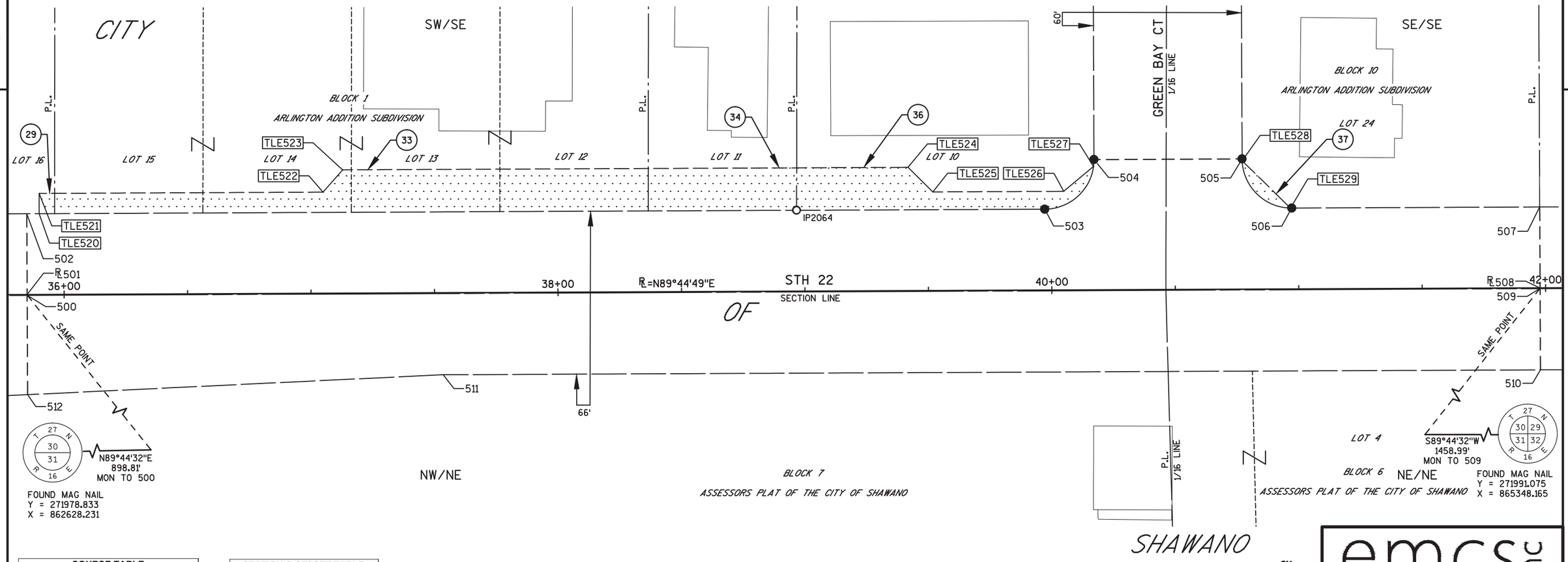
LOCATION SKETCH NOT TO SCALE



DOC # 729027
Recorded
January 02, 2018 1:44 PM
AMY DILLENBURG
Register of Deeds
Shawano WI
Fee Amount: $25.00
Slide B-313

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9180-23-22-4.05
AMENDMENT NO: 1

4



COURSE TABLE		
COURSE	BEARING	DISTANCE
500-501	N00° 15' 11"W	0.23'
501-502	N00° 15' 11"W	32.77'
502-503	N89° 44' 32"E	412.31'
503-504	N44° 44' 32"E	28.28'
504-505	N89° 44' 32"E	60.00'
505-506	S45° 15' 28"E	28.28'
506-507	N89° 44' 32"E	100.44'
507-508	S00° 15' 11"E	32.83'
508-509	S00° 15' 11"E	0.17'
509-510	S00° 15' 11"E	33.00'
510-511	S89° 44' 32"W	444.38'
511-512	S87° 15' 40"W	168.53'
512-500	N00° 15' 11"W	40.30'

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
500	35+85.00	0.23'
501	35+85.00	0.000'
502	35+85.00	-32.77'
503	39+97.31	-32.81'
504	40+17.31	-52.81'
505	40+77.31	-52.82'
506	40+97.31	-32.82'
507	41+97.75	-32.83'
508	41+97.75	0.00'
509	41+97.75	0.18'
510	41+97.75	33.18'
511	37+53.38	33.21'
512	35+85.00	40.52'

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE520	35+90.00	-32.77'
TLE521	35+90.00	-41.00'
TLE522	37+05.00	-41.00'
TLE523	37+13.00	-50.00'
TLE524	39+42.00	-50.00'
TLE525	39+52.00	-40.00'
TLE526	40+05.00	-40.00'
TLE527	40+17.12	-50.00'
TLE528	40+77.33	-52.02'
TLE529	40+96.84	-32.82'

ALL TLES ARE FOR SLOPE GRADING PURPOSES

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN SLIDE B-312 OF TRANSPORTATION PROJECT PLATS, AS DOCUMENT NO. 722987 FOR ADDITIONAL INFORMATION.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN RHINELANDER.

emcs, LLC

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT COMPLIANCE WITH IN FULL THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 9180-23-22-4.05-A1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE: 12-07-2017
TIMOTHY G. RUTZEN JR.
PROFESSIONAL LAND SURVEYOR NUMBER 2994

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF SHAWANO

(SIGNATURE) DATE: 12-14-17
(PRINTED NAME) Eccles

TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

170

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\TPP\9180-23-22 PLAT_CITY\040105_A1_RP.DWG
APPRAISAL PLAT DATE : ----------
PLOT DATE : 1/10/2018 3:39 PM
PLOT BY : TIM RUTZEN
PLOT NAME :
PLOT SCALE : **********

9180-23-22-4.05-A1

COMPOSITE DRAWING, ORIGINAL ON FILE AT THE COUNTY REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 9180-23-22-4.05

THAT PART LOTS 10, 11, 12, 13, 14, 15 & 16, BLOCK 1 OF ARLINGTON ADDITION SUBDIVISION, LOCATED IN THE SW 1/4 OF THE SE 1/4, PART OF LOT 24, BLOCK 10 OF ARLINGTON ADDITION SUBDIVISION, LOCATED IN THE SE 1/4 OF THE SE 1/4, ALL LOCATED IN SECTION 30, TOWNSHIP 27 NORTH, RANGE 16 EAST, CITY OF SHAWANO, SHAWANO COUNTY, WISCONSIN.

RELOCATION ORDER STH 22 SHAWANO COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF SHAWANO DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

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1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF SHAWANO, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

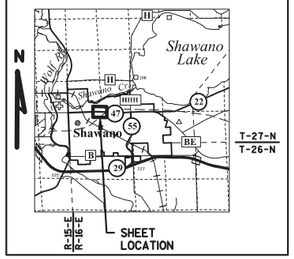
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

PARCEL		INTEREST	R/W ACRES REQUIRED			TLE
NUMBER	OWNERS	REQUIRED	NEW	EXISTING	TOTAL	ACRES
29	ANTIGO CO-OP CREDIT UNIION	TLE	---	---	---	0.001
33	VIOLET M. ROLOFF, A WIDOW, AS VENDOR; AND ROLOFF FAMILY LIMITED PARTNERSHIP, AS VENDEE UNDER LAND CONTRACT RECORDED SEPTEMBER 2, 2011	TLE	---	---	---	0.072
34	ROBERT J FISCHER REVOCABLE LIVING TRUST	TLE	---	---	---	0.024
36	MIDWEST PROPERTIES OF SHAWANO, LLC	TLE	---	---	---	0.031
37	RIJS, LLC	TLE	---	---	---	0.014

THE AREA SHOWN IN THE SCHEDULE OF LANDS AND INTERESTS IS ONLY THE AREA OF THE PARCEL SHOWN ON THIS SHEET. IF THE PARCEL IS ON MULTIPLE SHEETS, REFERENCE THE OTHER SHEET(S) FOR ADDITIONAL PARCEL AREAS.

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP2064	272017.301	863838.647	PK NAIL

LOCATION SKETCH NOT TO SCALE

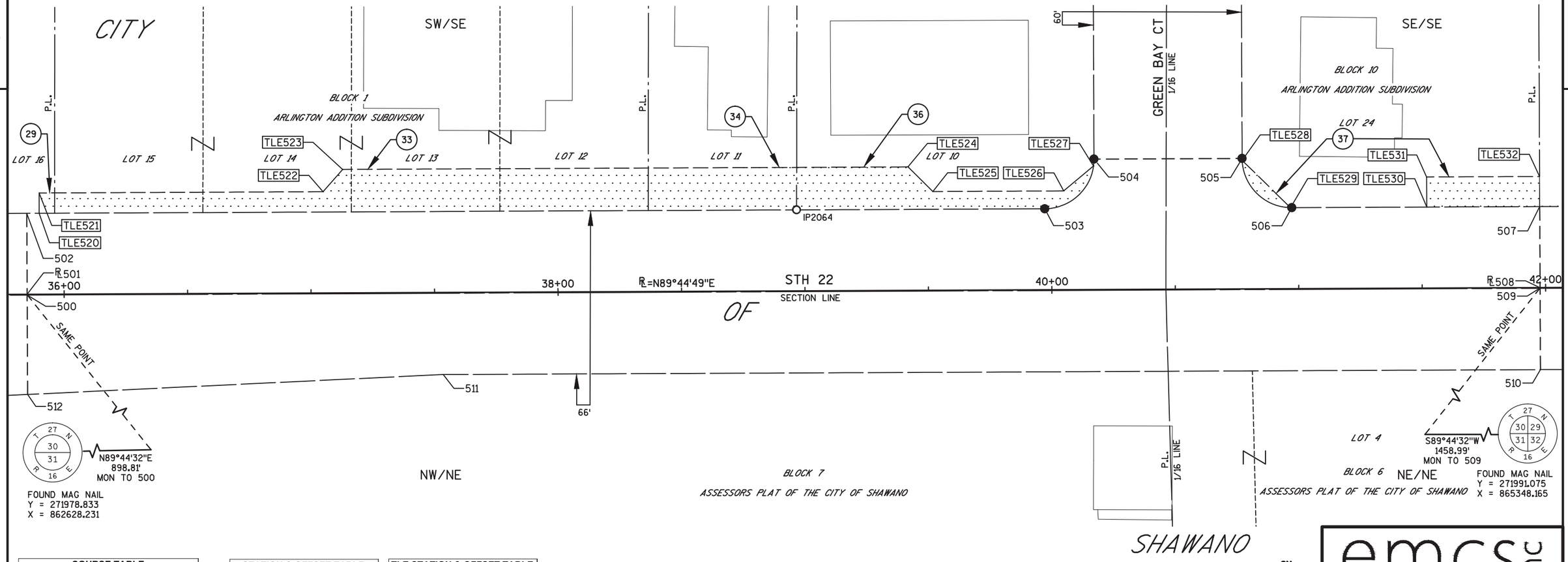


DOC # 723179
Recorded
April 25, 2017 11:26 AM
AMY DILLENBURG
REGISTER OF DEEDS
SHAWANO WI
Fee Amount: $25.00
Slide B-313

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9180-23-22-4.05
AMENDMENT NO:---

NOTE: SHEET 4.06 HAS BEEN VACATED PER DOCUMENT # 729028

4



COURSE TABLE		
COURSE	BEARING	DISTANCE
500-501	N00° 15' 11"W	0.23'
501-502	N00° 15' 11"W	32.77'
502-503	N89° 44' 32"E	412.31'
503-504	N44° 44' 32"E	28.28'
504-505	N89° 44' 32"E	60.00'
505-506	S45° 15' 28"E	28.28'
506-507	N89° 44' 32"E	100.44'
507-508	S00° 15' 11"E	32.83'
508-509	S00° 15' 11"E	0.17'
509-510	S00° 15' 11"E	33.00'
510-511	S89° 44' 32"W	444.38'
511-512	S87° 15' 40"W	168.53'
512-500	N00° 15' 11"W	40.30'

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
500	35+85.00	0.23'
501	35+85.00	0.000'
502	35+85.00	-32.77'
503	39+97.31	-32.81'
504	40+17.31	-52.81'
505	40+77.31	-52.82'
506	40+97.31	-32.82'
507	41+97.75	-32.83'
508	41+97.75	0.00'
509	41+97.75	0.18'
510	41+97.75	33.18'
511	37+53.38	33.21'
512	35+85.00	40.52'

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE520	35+90.00	-32.77'
TLE521	35+90.00	-41.00'
TLE522	37+05.00	-41.00'
TLE523	37+13.00	-50.00'
TLE524	39+42.00	-50.00'
TLE525	39+52.00	-40.00'
TLE526	40+05.00	-40.00'
TLE527	40+17.12	-50.00'
TLE528	40+77.33	-52.02'
TLE529	40+96.84	-32.82'
TLE530	41+52.00	-32.82'
TLE531	41+52.00	-45.00'
TLE532	41+97.75	-45.00'

ALL TLES ARE FOR SLOPE GRADING PURPOSES

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN SLIDE B-312 OF TRANSPORTATION PROJECT PLATS, AS DOCUMENT NO. 722987 FOR ADDITIONAL INFORMATION.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN RHINELANDER.

GN

SCALE, FEET 0 20 40

emcs,inc

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT COMPLIANCE WITH IN FULL THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 9180-23-22-4.05 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE: 4-19-2017

TIMOTHY G. RUTZEN JR.
PROFESSIONAL LAND SURVEYOR NUMBER 2994

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF SHAWANO

DATE: 4-24-17

(SIGNATURE)

(PRINTED NAME)

TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\TPP\9180-23-22 PLAT_CITY\040105_RP.DWG
PLOT DATE : 4/25/2017 3:40 PM PLOT BY : TIM RUTZEN PLOT NAME : PLOT SCALE : **********
APPRAISAL PLAT DATE : ----------

9180-23-22-4.05

COMPOSITE DRAWING, ORIGINAL ON FILE AT THE COUNTY REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 9180-23-22-4.07

THAT PART OF LOTS 34, 35, 36 & 37, BLOCK 10 OF ARLINGTON ADDITION SUBDIVISION, LOT 1, BLOCK 5 OF THE ASSESSORS PLAT OF THE CITY OF SHAWANO, ALL LOCATED IN THE SE 1/4 OF THE SE 1/4, SECTION 30; ALSO PART OF LOT 1, CSM 1790, LOT 1, CSM 1016 AND LOT 1, BLOCK 6 OF THE ASSESSORS PLAT OF THE CITY OF SHAWANO, IN THE NE 1/4 OF THE NE 1/4, SECTION 31, ALL LOCATED IN TOWNSHIP 27 NORTH, RANGE 16 EAST, CITY OF SHAWANO, SHAWANO COUNTY, WISCONSIN.

RELOCATION ORDER STH 22 SHAWANO COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF SHAWANO DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF SHAWANO HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF SHAWANO, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

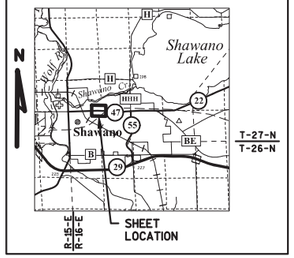
PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
~~42~~	~~WE, INC~~	~~TLE~~	---	---	---	~~0.033~~
~~43~~	~~TITLETOWN ENTERPRISES, INC~~	~~TLE~~	---	---	---	~~0.025~~
44	THE RIGHT REVEREND F.H. KRAUTBAUM, BISHOP OF THE DIOCESE OF GREEN BAY; AND THE CONGREGATION OF THE SACRED HEART CHURCH OF SHAWANO; AND SACRED HEART CEMETERY ASSOCIATION	TLE	---	---	---	0.004
46	KLISTER BROS, LLC	TLE	---	---	---	0.002
47	ANTHONY L ZIELINSKI, JR	TLE	---	---	---	0.028

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	FRONTIER NORTH INC.	RELEASE OF RIGHTS

(200) FRONTIER NORTH INC.
DOC 323990 - PAR 46
DOC 305614 - PAR 46, 47

LOCATION SKETCH NOT TO SCALE



DOC # 723181
Recorded
April 25, 2017 11:26 AM
AMY DILLENBURG
REGISTER OF DEEDS
SHAWANO WI
Fee Amount: $25.00
Slide B-313

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9180-23-22-4.07
AMENDMENT NO:---

NOTE: SHEET 4.06 HAS BEEN VACATED PER DOCUMENT # 729028

4 4

CITY OF SHAWANO

LOT 33 | LOT 34 | LOT 35 | LOT 36 | LOT 37 | SE/SE

BLOCK 10
ARLINGTON ADDITION SUBDIVISION

PARCEL 42 AND 43 VACATED PER DOCUMENT # 729029

ARLINGTON ST

LOT 1
BLOCK 5
ASSESSORS PLAT OF THE CITY OF SHAWANO

SHAWANO CITY CEMETERY

TLE770 TLE771 TLE772 TLE773 TLE774 TLE775 TLE776 TLE777 TLE778 TLE779 TLE780

42 43 44 46 47

54'

IP754 IP2061

PC: 50+13.10

705 700 762 66' 716 713 728 729 730 753 790 704 R=N89°44'49"E 48+00 50+00 52+00 R730

N89°44'32"E 2051.24' MON TO 700

S89°44'32"W 106.12' MON TO 729

STH 22
SECTION LINE

PI STA = 54+27.24
Y = 271991.241
X = 865369.252
DELTA = 3°18'44"
D = 0°24'00"
T = 414.14'
L = 828.05'
R = 14324.00'
PC STA = 50+13.10
PT STA = 58+41.15
DA = S86°56'27"E

4' MAINTENANCE EASEMENT FOR SIDEWALK CITY OF SHAWANO V 759, P 473 DOC 459564

LOT 1
CSM 1790
V 6, P 348
DOC 514603

FOUND MAG NAIL
Y = 271978.833
X = 865268.201

LOT 1
CSM 1016
V 3, P 399
DOC 443685

LOT 1
CSM 1338
V 5, P 68
DOC 485356

FOUND MAG NAIL
Y = 271991.075
X = 865348.165

LOT 1
BLOCK 6
ASSESSORS PLAT OF THE CITY OF SHAWANO

NE/NE

SHAWANO

T 27 N R 16 E sections: 30, 31 / 29, 32

P.L.

GN

SCALE, FEET 0 20 40

EXISTING MONUMENTS

POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP754	272021.969	864918.971	MAGNAIL
IP2061	272022.729	864974.02	1.25" O.D. IRON ROD

COURSE TABLE

COURSE	BEARING	DISTANCE
700-704	N00° 15' 11"W	0.13'
704-705	N00° 15' 11"W	32.87'
705-713	N89° 44' 32"E	240.72'
713-716	N89° 44' 32"E	54.00'
716-728	N89° 44' 32"E	268.55'
728-729	S00° 53' 40"W	33.01'
729-730	S00° 53' 40"W	2.79'
730-753	S00° 53' 40"W	30.21'
753-762	S89° 44' 32"W	561.94'
762-700	N00° 15' 11"W	33.00'

TLE STATION & OFFSET TABLE

POINT NO.	STATION	OFFSET
TLE770	47+37.43	-45.00'
TLE771	49+13.00	-45.00'
TLE772	49+24.00	-38.00'
TLE773	49+78.17	-38.00'
TLE774	50+32.12	-38.00'
TLE775	50+64.96	-38.02'
TLE776	50+64.97	-32.99'
TLE777	50+30.00	33.10'
TLE778	50+30.00	41.19'
TLE779	48+65.00	41.00'
TLE780	48+65.00	33.12'

STATION & OFFSET TABLE

POINT NO.	STATION	OFFSET
700	47+37.43	0.13'
704	47+37.43	0.000'
705	47+37.43	-32.87'
* 713	49+78.15	-32.89'
* 716	50+32.11	-32.91'
728	53+00.00	-35.80'
729	53+00.00	-2.79'
730	53+00.00	0.00'
753	53+00.00	30.22'
762	47+37.43	33.13'
790	50+67.01	0.00'

* NO TYPE 2 MONUMENT WAS SET DUE TO CLOSE PROXIMITY TO EXISTING MONUMENT. USE COURSE TABLE AND STATION & OFFSET DATA FOR ULTIMATE R/W

ALL TLES ARE FOR SLOPE GRADING PURPOSES

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN SLIDE B-312 OF TRANSPORTATION PROJECT PLATS, AS DOCUMENT NO. 722987 FOR ADDITIONAL INFORMATION.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN RHINELANDER.

emcs.inc

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT COMPLIANCE WITH IN FULL THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 9180-23-22-4.07 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

DATE: 4-19-2017
TIMOTHY G. RUTZEN JR.
PROFESSIONAL LAND SURVEYOR NUMBER 2994

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF SHAWANO

(SIGNATURE) DATE: 4-24-17
(PRINTED NAME) Ewald

172

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\TPP\9180-23-22 PLAT_CITY\040107_RP.DWG
PLOT DATE : 4/25/2017 3:45 PM PLOT BY : TIM RUTZEN PLOT NAME : PLOT SCALE : **********
APPRAISAL PLAT DATE : ----------

9180-23-22-4.07

COMPOSITE DRAWING, ORIGINAL ON FILE AT THE COUNTY REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 9180-23-22-4.08

THAT PART OF LOT 1, CSM 1338, IN THE NE 1/4 OF THE NE 1/4, SECTION 31, ALSO PART OF LOT 1, CSM 736, IN THE NW 1/4 OF THE NW 1/4, SECTION 32, ALL LOCATED IN TOWNSHIP 27 NORTH, RANGE 16 EAST, CITY OF SHAWANO, SHAWANO COUNTY, WISCONSIN.

RELOCATION ORDER STH 22 SHAWANO COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF SHAWANO DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF SHAWANO HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF SHAWANO, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

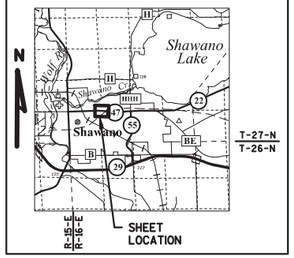
PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
48	LEASE BETWEEN GGB INVESTMENTS, LP PARTNERSHIP, CJK APARTMENTS, LLC AND MUNGER PROPERTIES, LLC AS THE LESSOR AND DORO INCORPORATED AS LESSEE	TLE	---	---	---	0.001
49	JJ WIED, LLC	TLE	---	---	---	0.001

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
200	FRONTIER NORTH INC.	RELEASE OF RIGHTS

200 FRONTIER NORTH INC.
DOC 325548 - PAR 48
DOC 305769 - PAR 49

LOCATION SKETCH NOT TO SCALE



DOC # 723182
Recorded
April 25, 2017 11:26 AM
AMY DILLENBURG
REGISTER OF DEEDS
SHAWANO WI
Fee Amount: $25.00
Slide B-313

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9180-23-22-4.08
AMENDMENT NO:---

ESTABLISHED PER SECTION SUMMARY
Y = 274686.630
X = 865353.402

PI STA = 54+27.24
Y = 271991.241
X = 865369.252
DELTA = 3°18'44"
D = 0°24'00"
T = 414.14'
L = 828.05'
R = 14324.00'
PC STA = 50+13.10
PT STA = 58+41.15

S00°56'41"W 2651.07' MON TO 803

P.L. SECTION LINE

SE/SE

CITY

SHAWANO CITY CEMETERY

SW/SW

803 IP757 804 802 801 800 805 806 807 808 809 810 811 812 813 814

IP750 IP2066 IP2069

FOUND MAG NAIL
Y = 271991.075
X = 865348.165

106.12' 94.00' SECTION LINE

54+00 56+00

STH 22

N89°44'32"E 2613.85' MON TO 800

FOUND MAG NAIL
Y = 271978.833
X = 862628.231

FOUND MAG NAIL
Y = 271852.959
X = 867938.337

N86°56'52"W 2499.85' MON TO 805

TLE823 TLE822 TLE821 TLE820

48 49 200

4' MAINTENANCE EASEMENT FOR SIDEWALK CITY OF SHAWANO V 759, P 473 DOC 459564

66'

7' MAINTENANCE EASEMENT FOR SIDEWALK CITY OF SHAWANO V 756, P 308 DOC 458509

VARIES

5' MAINTENANCE EASEMENT FOR SIDEWALK CITY OF SHAWANO V 756, P 309 DOC 458510

LOT 1 CSM 1338 V 5, P 68 DOC 485356

SIGN EASEMENT SUPERTEL HOSPITALITY, INC (PARCEL TO THE SOUTH) V 830, P 540 DOC 485657

60'

LOT 1 CSM 736 V 3, P 78 DOC 407696

S WAUKECHON ST

N01°19'04"W 2787.36' MON TO 810 SECTION LINE

FOUND SURVEY NAIL
Y = 269270.627
X = 865410.748

NE/NE

NW/NW

SHAWANO

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP757	272035.788	865348.272	1.00" O.D. IRON PIPE
IP750	272022.456	865595.279	1.00" O.D. IRON PIPE
IP2066	271955.142	865279.554	PK NAIL
IP2069	271948.088	865532.013	1.50" O.D. IRON PIPE

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
800	53+00.00	-2.79'
801	53+00.00	-35.80'
802	54+05.36	-38.31'
* 803	54+05.12	-49.80'
804	55+00.00	-47.22'
805	55+00.00	-2.78'
806	55+00.00	0.00'
807	55+00.00	30.23'
808	54+40.16	28.69'
809	54+18.72	52.18'
810	54+08.70	51.98'
811	53+58.38	50.88'
812	53+35.28	29.46'
813	53+00.00	30.22'
814	53+00.00	0.000'

* NO TYPE 2 MONUMENT WAS SET DUE TO CLOSE PROXIMITY TO EXISTING MONUMENT. USE COURSE TABLE AND STATION & OFFSET DATA FOR ULTIMATE R/W

COURSE TABLE		
COURSE	BEARING	DISTANCE
800-801	N00° 53' 40"E	33.01'
801-802	N89° 44' 32"E	105.66'
802-803	N00° 06' 41"E	11.49'
803-804	S86° 56' 19"E	95.23'
804-805	S01° 41' 40"W	44.43'
805-806	S01° 41' 40"W	2.78'
806-807	S01° 41' 40"W	30.23'
807-808	N86° 56' 52"W	59.73'
808-809	S43° 43' 14"W	31.77'
809-810	N87° 30' 36"W	9.98'
810-811	N87° 30' 36"W	50.15'
811-812	N46° 00' 52"W	31.45'
812-813	S89° 44' 32"W	35.21'
813-814	N00° 53' 40"E	30.21'
814-800	N00° 53' 40"E	2.79'

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE820	54+54.00	36.07'
TLE821	54+29.85	40.00'
TLE822	53+43.40	37.00'
TLE823	53+27.00	33.65'

ALL TLES ARE FOR SLOPE GRADING PURPOSES

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN SLIDE B-312 OF TRANSPORTATION PROJECT PLATS, AS DOCUMENT NO. 722987 FOR ADDITIONAL INFORMATION.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN RHINELANDER.

GN

SCALE, FEET 0 20 40

emcs.inc

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT COMPLIANCE WITH IN FULL THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 9180-23-22-4.08 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

DATE: 4-19-2017
TIMOTHY G. RUTZEN JR.
PROFESSIONAL LAND SURVEYOR NUMBER 2994

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF SHAWANO

DATE: 4-24-17
(SIGNATURE)
(PRINTED NAME)

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\TPP\9180-23-22 PLAT_CITY\040108_RP.DWG
PLOT DATE : 4/25/2017 3:48 PM PLOT BY : TIM RUTZEN PLOT NAME : PLOT SCALE : **********
APPRAISAL PLAT DATE : ----------

9180-23-22-4.08

COMPOSITE DRAWING, ORIGINAL ON FILE AT THE COUNTY REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 9180-23-22-4.09

THAT PART OF LOT 1, CSM 995, LOCATED IN THE NW 1/4 OF THE NW 1/4, SECTION 32, TOWNSHIP 27 NORTH, RANGE 16 EAST, CITY OF SHAWANO, SHAWANO COUNTY, WISCONSIN.

RELOCATION ORDER STH 22 SHAWANO COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF SHAWANO DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF SHAWANO HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF SHAWANO, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

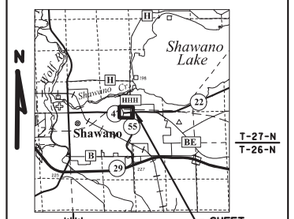
PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	EXISTING	TOTAL	TLE ACRES
51	FRANCHISE REALTY INTERSTATE CORPORATION	TLE	---	---	---	0.014
52	WE, INC.	TLE	---	---	---	0.003

UTILITY INTERESTS REQUIRED

UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
211	WISCONSIN POWER & LIGHT D/B/A/WE ENERGIES (ELECTRIC)	RELEASE OF RIGHTS

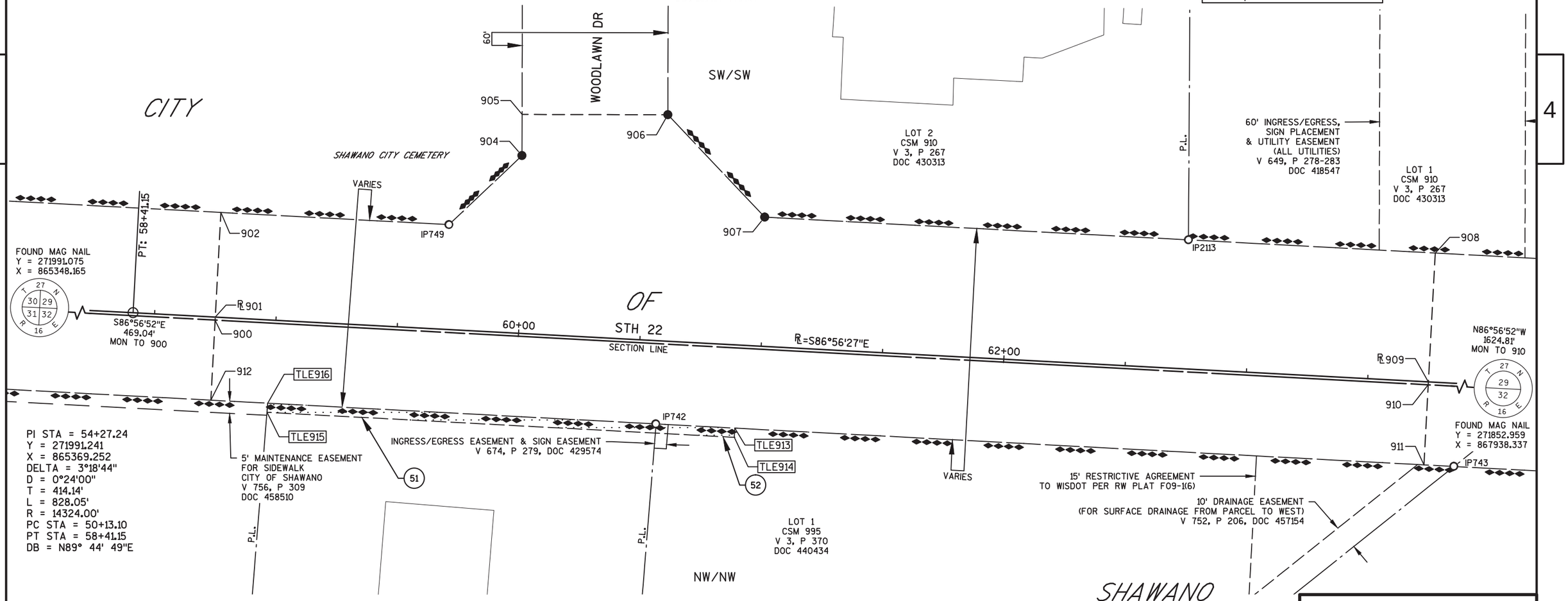
(211) **WISCONSIN POWER & LIGHT D/B/A/WE ENERGIES (ELECTRIC)**
DOC 231726 - PAR 51
DOC 268191 - PAR 51

LOCATION SKETCH NOT TO SCALE



DOC # 723183
Recorded
April 25, 2017 11:26 AM
AMY DILLENBURG
REGISTER OF DEEDS
SHAWANO WI
Fee Amount: $25.00
Slide B-313

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9180-23-22-4.09
AMENDMENT NO:---



PI STA = 54+27.24
Y = 271991.241
X = 865369.252
DELTA = 3°18'44"
D = 0°24'00"
T = 414.14'
L = 828.05'
R = 14324.00'
PC STA = 50+13.10
PT STA = 58+41.15
DB = N89° 44' 49"E

COURSE TABLE		
COURSE	BEARING	DISTANCE
900-901	N03° 03' 33"E	1.24'
901-902	N03° 03' 33"E	43.13'
902-IP749	S86° 56' 19"E	94.05'
IP749-904	N46° 36' 06"E	41.34'
904-905	N00° 08' 31"E	16.95'
905-906	S89° 51' 29"E	60.00'
906-907	S43° 23' 54"E	57.99'
907-908	S86° 56' 19"E	276.38'
908-909	S03° 03' 33"W	53.11'
909-910	S03° 03' 33"W	1.18'
910-911	S03° 03' 33"W	33.00'
911-912	N86° 56' 52"W	500.00'
912-900	N03° 03' 33"E	33.00'

STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
900	58+75.00	1.24'
901	58+75.00	0.00'
902	58+75.00	-43.13'
IP 749	59+69.05	-43.12'
904	59+97.53	-73.09'
905	59+96.67	-90.01'
906	60+56.59	-93.07'
907	60+98.62	-53.12'
908	63+75.00	-53.11'
909	63+75.00	0.00'
910	63+75.00	1.18'
911	63+75.00	34.18'
912	58+75.00	34.24'

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE913	60+91.00	34.21'
TLE914	60+91.00	38.00'
TLE915	58+98.37	38.00'
TLE916	58+98.47	34.23'

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP742	271923.383	865997.938	MAGNAIL
IP743	271905.937	866326.388	1.25" O.D. IRON PIPE
IP749	272005.374	865912.820	1.25" O.D. IRON PIPE
IP2113	271999.158	866217.169	1.50" O.D. IRON PIPE

ALL TLES ARE FOR SLOPE GRADING PURPOSES

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN SLIDE B-312 OF TRANSPORTATION PROJECT PLATS, AS DOCUMENT NO. 722987 FOR ADDITIONAL INFORMATION.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN RHINELANDER.

SCALE, FEET 0 20 40

emcs, inc

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT COMPLIANCE WITH IN FULL THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 9180-23-22-4.09 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

DATE: 4-19-2017
TIMOTHY G. RUTZEN JR.
PROFESSIONAL LAND SURVEYOR NUMBER 2994

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF SHAWANO

(SIGNATURE) DATE: 4-24-17
(PRINTED NAME)

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\TPP\9180-23-22 PLAT_CITY\040109_RP.DWG
PLOT DATE : 4/25/2017 4:18 PM PLOT BY : TIM RUTZEN PLOT NAME : PLOT SCALE : **********
APPRAISAL PLAT DATE : ----------

COMPOSITE DRAWING, ORIGINAL ON FILE AT THE COUNTY REGISTER OF DEEDS OFFICE

TRANSPORTATION PROJECT PLAT NO: 9180-23-22-4.10

THAT PART OF LOT 1, CSM 910, IN THE SW1/4 OF THE SW1/4 OF SECTION 29 AND PART OF THE NW1/4 OF THE NW1/4 OF SECTION 32, ALL IN TOWNSHIP 27 NORTH, RANGE 16 EAST, CITY OF SHAWANO, SHAWANO COUNTY, WISCONSIN. (PER CORRECTION AFFIDAVIT DOC #730002)

RELOCATION ORDER STH 22 SHAWANO COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE CITY OF SHAWANO DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 62.22, WISCONSIN STATUTES, THE CITY OF SHAWANO HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE CITY FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE CITY OF SHAWANO, PURSUANT TO THE PROVISIONS OF SECTION 62.22, WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

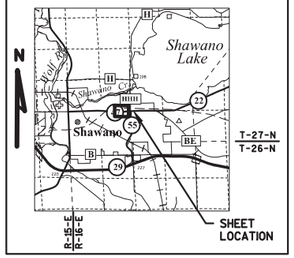
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERSTS TO THE DEPARTMENT.

PARCEL NUMBER	OWNERS	INTEREST REQUIRED	R/W ACRES REQUIRED NEW	R/W ACRES REQUIRED EXISTING	R/W ACRES REQUIRED TOTAL	PLE ACRES	TLE ACRES
53	RCG-SHAWANO, LLC	TLE	---	---	---	---	0.007
54	STATE OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES	PLE/TLE	---	---	---	0.003	0.046

UTILITY INTERESTS REQUIRED

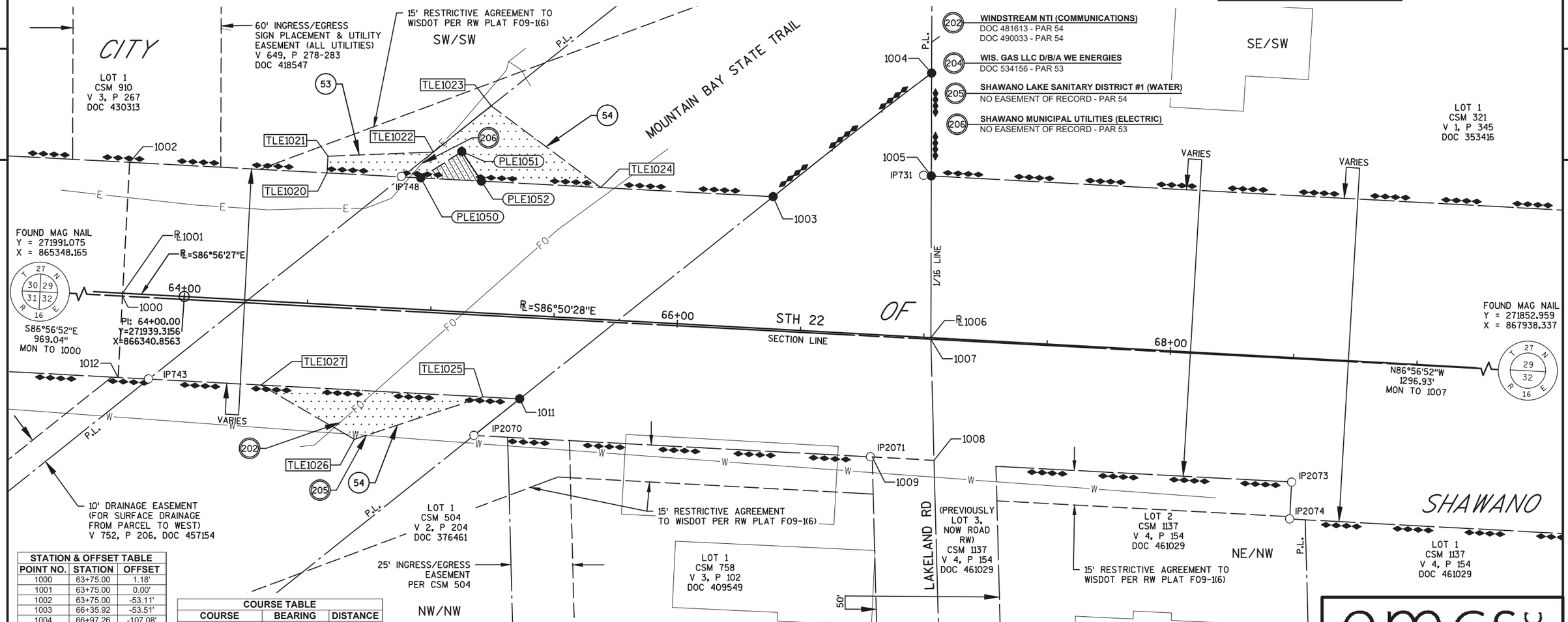
UTILITY NUMBER	OWNER(S)	INTEREST REQUIRED
202	WINDSTREAM NTI (COMMUNICATIONS)	RELEASE OF RIGHTS
204	WIS. GAS LLC D/B/A WE ENERGIES	RELEASE OF RIGHTS
205	SHAWANO LAKE SANITARY DISTRICT #1 (WATER)	RELEASE OF RIGHTS
206	SHAWANO MUNICIPAL UTILITIES (ELECTRIC)	RELEASE OF RIGHTS

LOCATION SKETCH NOT TO SCALE



DOC # 723184
Recorded
April 25, 2017 11:26 AM
AMY DILLENBURG
REGISTER OF DEEDS
SHAWANO WI
Fee Amount: $25.00
Slide B-313

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 9180-23-22-4.10
AMENDMENT NO:---



STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
1000	63+75.00	1.18'
1001	63+75.00	0.00'
1002	63+75.00	-53.11'
1003	66+35.92	-53.51'
1004	66+97.26	-107.08'
1005	66+99.44	-65.45'
1006	67+02.86	0.00'
1007	67+02.89	0.61'
1008	67+06.88	49.54'
* 1009	66+81.80	49.57'
IP2070	65+20.26	49.73'
1011	65+37.98	33.92'
1012	63+75.00	34.18'
PLE1050	64+93.05	-53.27'
PLE1051	65+09.02	-64.84'
PLE1052	65+17.64	-53.31'

* NO TYPE 2 MONUMENT WAS SET DUE TO CLOSE PROXIMITY TO EXISTING MONUMENT. USE COURSE TABLE AND STATION & OFFSET DATA FOR ULTIMATE R/W

COURSE TABLE		
COURSE	BEARING	DISTANCE
1000-1001	N03° 03' 33"E	1.18'
1001-1002	N03° 03' 33"E	53.11'
1002-PLE1050	S86° 56' 19"E	118.14'
PLE1050-PLE1051	N57° 14' 25"E	19.72'
PLE1051-PLE1052	S33° 37' 40"E	14.40'
PLE1052-1003	S86° 56' 19"E	118.28'
1003-1004	N52° 01' 40"E	81.44'
1004-1005	S00° 10' 010"W	41.68'
1005-1006	S00° 10' 010"W	65.54'
1006-1007	S00° 10' 010"W	0.61'
1007-1008	S01° 30' 28"E	49.09'
1008-1009	N86° 54' 02"W	25.08'
1009-IP2070	N86° 54' 02"W	161.54'
IP2070-1011	N51° 24' 20"E	23.75'
1011-1012	N86° 56' 52"W	162.93'
1012-1000	N03° 03' 33"E	33.00'

TLE STATION & OFFSET TABLE		
POINT NO.	STATION	OFFSET
TLE1020	64+55.00	-53.20'
TLE1021	64+55.00	-60.00'
TLE1022	64+97.51	-64.00'
TLE1023	65+19.92	-84.00'
TLE1024	65+66.00	-53.39'
TLE1025	65+23.00	33.94'
TLE1026	64+72.00	54.00'
TLE1027	64+33.00	34.11'

EXISTING MONUMENTS			
POINT	Y (NORTHING)	X (EASTING)	DESCRIPTION
IP731	271988.415	866640.336	1.25" O.D. IRON PIPE
IP743	271905.937	866326.388	1.25" O.D. IRON PIPE
IP748	271987.987	866428.785	1.25" O.D. IRON PIPE
IP2070	271883.030	866458.196	1.25" O.D. IRON PIPE
IP2071	271874.376	866618.800	RR SPIKE
IP2073	271864.111	866789.396	1.25" O.D. IRON PIPE
IP2074	271849.209	866788.563	1.25" O.D. IRON PIPE

SCALE, FEET 0 20 40

ALL TLES ARE FOR SLOPE GRADING PURPOSES

REFER TO THE TITLE SHEET, RECORDED AS SHEET 2 OF 2, IN SLIDE B-312 OF TRANSPORTATION PROJECT PLATS, AS DOCUMENT NO. 722987 FOR ADDITIONAL INFORMATION.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION OFFICE IN RHINELANDER.

GN

emcs.inc

I, TIMOTHY G. RUTZEN JR. PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT COMPLIANCE WITH IN FULL THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE CITY, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 9180-23-22-4.10 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN TIMOTHY G. RUTZEN, JR. S-2994 MOSINEE, WISCONSIN LAND SURVEYOR

DATE: 4-19-2017
TIMOTHY G. RUTZEN JR.
PROFESSIONAL LAND SURVEYOR NUMBER 2994

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE CITY OF SHAWANO

DATE: 4-24-17
(SIGNATURE)
(PRINTED NAME)

175

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\TPP\9180-23-22 PLAT_CITY\040110_RP.DWG
PLOT DATE : 4/25/2017 4:17 PM
PLOT BY : TIM RUTZEN
PLOT NAME :
PLOT SCALE : **********
APPRAISAL PLAT DATE : ----------

9180-23-22-4.10

LEGEND

(SS) ADJUSTING STORM SEWER MANHOLES

(S) ADJUSTING SANITARY SEWER MANHOLES

(W) ADJUSTING WATER VALVE BOXES

N

NOTE
NO UTILITIES FIELD LOCATED BETWEEN
STA 1089+67 AND STA 1099+00

BEGIN PROJECT 9180-23-71
STA 1089+67
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

R/W

R/W

ASPH
PE

PC: 1092+78.39

BIKE PATH

5

5

1089+00

1090+00

1091+00

N26° 29' 56"E

1092+00

STH 22

1093+00

CURVE 1

1094+00

1095+00

STA 1089+00
Y=263476.69
X=859860.29

BASE AGG
PE

R/W

R/W

SIGN

R/W

CURVE 1
PI STA = 1095+96.14
Y = 264099.70
X = 860170.89
PC STA = 1092+78.39
Y = 263815.33
X = 860029.12
PT STA = 1099+03.05
Y = 264417.4422
X = 860174.23
DELTA = 25°53'51"
D = 4°08'45"
T = 317.76'
L = 624.66'
R = 1382.00'
SE = 5.2%

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 176	E

LEGEND

- (SS) ADJUSTING STORM SEWER MANHOLES
- (S) ADJUSTING SANITARY SEWER MANHOLES
- (W) ADJUSTING WATER VALVE BOXES

NOTES

NO UTILITIES FIELD LOCATED BETWEEN STA 1089+67 AND STA 1099+00

SEE PAVING DETAILS FOR ADDITIONAL INFORMAITON FOR CURB & GUTTER, SIDEWALK, AND CURB RAMP REPAIRS

CURVE 1
PI STA = 1095+96.14
Y = 264099.70
X = 860170.89
PC STA = 1092+78.39
Y = 263815.33
X = 860029.12
PT STA = 1099+03.05
Y = 264417.4422
X = 860174.23
DELTA = 25°53'51"
D = 4°08'45"
T = 317.76'
L = 624.66'
R = 1382.00'
SE = 5.2%

5

5

1095+00 1096+00 CURVE 1 1097+00 STH 22 1098+00 1099+00 1100+00 1101+00

N0° 36' 05"E N1° 04' 41"W

PT: 1099+03.05

PI: 1099+99.46

R/W

WILLOW LN

END CONSTRUCTION, 60' LT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

SHAWANO MUNICIPAL UTILITIES
(ELECTRIC)

CONTROL POINT 503
Y = 264492.51
X = 860113.77
FENO MONUMENT
W/ALUMINUM CAP

FRONTIER COMMUNICATIONS OF WISCONSIN LLC
(COMMUNICATIONS)

CHARTER COMMUNICATIONS
(COMMUNICATIONS)

NSIGHT TELESERVICES
(COMMUNICATIONS)

WE ENERGIES
(GAS)

CAUTION

REMOVING CONCRETE SIDEWALK

REMOVING CURB & GUTTER

REMOVING CURB & GUTTER

CITY OF SHAWANO
(SEWER)

REMOVING CONCRETE SIDEWALK

CITY OF SHAWANO
(WATER)

R-15 E T-26 N 1 6 R-16 E T-26 N

REESTABLISH SECTION CORNER AND LANDMARK REFERENCE MONUMENTS

REMOVING CONCRETE SIDEWALK

END CONSTRUCTION, 76' RT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

NSIGHT TELESERVICES
(COMMUNICATIONS)

SHAWANO MUNICIPAL UTILITIES
(ELECTRIC)

CHARTER COMMUNICATIONS
(COMMUNICATIONS)

FRONTIER COMMUNICATIONS OF WISCONSIN LLC
(COMMUNICATIONS)

CTH B

SIGN U/C

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 177	E

LEGEND

- (SS) ADJUSTING STORM SEWER MANHOLES
- (S) ADJUSTING SANITARY SEWER MANHOLES
- (W) ADJUSTING WATER VALVE BOXES

NOTE
SEE PAVING DETAILS FOR ADDITIONAL INFORMAITON FOR CURB & GUTTER, SIDEWALK, AND CURB RAMP REPAIRS

N

5

SHAWANO MUNICIPAL UTILITIES (ELECTRIC)
CITY OF SHAWANO (WATER)
WE ENERGIES (GAS)
CHARTER COMMUNICATIONS (COMMUNICATIONS)
FRONTIER COMMUNICATIONS OF WISCONSIN LLC (COMMUNICATIONS)
NSIGHT TELESERVICES (COMMUNICATIONS)
R/W
CONC PE
ASPH CE
ASPH PE
BASE AGG PE
R/W

1101+00 1102+00 1103+00 N1° 04' 41"W 1104+00 STH 22 1105+00 1106+00 1107+00

NO MANHOLE ADJUSTMENT REQ'D
REMOVING CURB & GUTTER
NSIGHT TELESERVICES (COMMUNICATIONS)
FRONTIER COMMUNICATIONS OF WISCONSIN LLC (COMMUNICATIONS)
CHARTER COMMUNICATIONS (COMMUNICATIONS)
CONC PE
SHAWANO MUNICIPAL UTILITIES (ELECTRIC)
R/W
CITY OF SHAWANO (SEWER)
REMOVING CONCRETE SIDEWALK
END CONSTRUCTION, 50' RT BUTT JOINT REQ'D (SEE CONSTRUCTION DETAILS)
PEARL AVE
TLE
REMOVING CONCRETE SIDEWALK
R/W

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 178	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 0501(4)-PP
PLOT DATE : 8/29/2018 7:41 PM PLOT BY : SCOTT KAISER PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- (SS) ADJUSTING STORM SEWER MANHOLES
- (S) ADJUSTING SANITARY SEWER MANHOLES
- (W) ADJUSTING WATER VALVE BOXES

N

5

5

CHARTER COMMUNICATIONS (COMMUNICATIONS)

NSIGHT TELESERVICES (COMMUNICATIONS)

WE ENERGIES (GAS)

CITY OF SHAWANO (WATER)

SHAWANO MUNICIPAL UTILITIES (ELECTRIC)

FRONTIER COMMUNICATIONS OF WISCONSIN LLC (COMMUNICATIONS)

R/W

ASPH PE

BASE AGG PE

ASPH CE

PI: 1112+60.07

1107+00 | 1108+00 | 1109+00 | N1° 04' 41"W | 1110+00 | STH 22 | 1111+00 | 1112+00 | 1113+00

CONC PE

CITY OF SHAWANO (SEWER)

SHAWANO MUNICIPAL UTILITIES (ELECTRIC)

CHARTER COMMUNICATIONS (COMMUNICATIONS)

FRONTIER COMMUNICATIONS OF WISCONSIN LLC (COMMUNICATIONS)

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 179	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 0501(5)-PP

PLOT DATE : 8/29/2018 7:42 PM PLOT BY : SCOTT KAISER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

LEGEND

- (SS) ADJUSTING STORM SEWER MANHOLES
- (S) ADJUSTING SANITARY SEWER MANHOLES
- (W) ADJUSTING WATER VALVE BOXES

N

5

5

CITY OF SHAWANO (WATER)

SHAWANO MUNICIPAL UTILITIES (ELECTRIC)

FRONTIER COMMUNICATIONS OF WISCONSIN LLC (COMMUNICATIONS)

CHARTER COMMUNICATIONS (COMMUNICATIONS)

WE ENERGIES (GAS)

R/W

ASPH PE

BASE AGG PE

1113+00 1114+00 1115+00 N0° 39' 16"W 1116+00 STH 22 1117+00 1118+00 1119+00

CHARTER COMMUNICATIONS (COMMUNICATIONS)

CITY OF SHAWANO (SEWER)

FRONTIER COMMUNICATIONS OF WISCONSIN LLC (COMMUNICATIONS)

SHAWANO MUNICIPAL UTILITIES (ELECTRIC)

NSIGHT TELESERVICES (COMMUNICATIONS)

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 180	E

LEGEND

- (SS) ADJUSTING STORM SEWER MANHOLES
- (S) ADJUSTING SANITARY SEWER MANHOLES
- (W) ADJUSTING WATER VALVE BOXES

NOTE
SEE PAVING DETAILS FOR ADDITIONAL INFORMAITON FOR CURB & GUTTER, SIDEWALK, AND CURB RAMP REPAIRS

N

R/W

R/W

SUNSET AVE

FRONTIER COMMUNICATIONS OF WISCONSIN LLC (COMMUNICATIONS)

NSIGHT TELESERVICES (COMMUNICATIONS)

END CONSTRUCTION, 48' LT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

REESTABLISH SECTION CORNER AND LANDMARK REFERENCE MONUMENTS

T27N R15E | T27N R16E
36 | 31
1 | 6
T26N R15E | T26N R16E

SHAWANO MUNICIPALITY UTILITIES (ELECTRIC)

WE ENERGIES (GAS)

CITY OF SHAWANO (WATER)

END CONSTRUCTION
PROJECT 9180-23-71
STA 1121+37
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

REMOVING CONCRETE SIDEWALK

TLE

REMOVING CONCRETE SIDEWALK

TLE

BASE AGG PE

CONC PE

CONC PE

EP: 1123+00.00

ASPH PE

BASE AGG PE

R/W

5

5

CAUTION

CAUTION

REMOVING CURB & GUTTER

1119+00

1120+00

N0° 39' 16"W

1121+00

STH 22

1122+00

STA 1123+00
Y=266814.10
X=860139.64

CITY OF SHAWANO (SEWER)

REMOVING CURB & GUTTER

MH

MH

BASE AGG PE

ASPH CE

TLE

REMOVING CONCRETE SIDEWALK

CHARTER COMMUNICATIONS (COMMUNICATIONS)

FRONTIER COMMUNICATIONS OF WISCONSIN LLC (COMMUNICATIONS)

NSIGHT TELESERVICES (COMMUNICATIONS)

SHAWANO MUNICIPALITY UTILITIES (ELECTRIC)

E ZINGLER AVE

TLE

REMOVING CONCRETE SIDEWALK

ASPH PE

CONC PE

CONC PE

CONC PE

ASPH PE

R/W

FLAG

END CONSTRUCTION, 48' RT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

R/W

R/W

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 181	E

LEGEND

- (SS) ADJUSTING STORM SEWER MANHOLES
- (S) ADJUSTING SANITARY SEWER MANHOLES
- (W) ADJUSTING WATER VALVE BOXES

N

RESIDUAL GROUNDWATER CONTAMINATION AT A DEPTH OF APPROXIMATELY 10' TO 15' BELOW THE EXISTING SURFACE

BEGIN PROJECT 9180-23-72
STA 1+85
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

SHAWANO MUNICIPAL UTILITIES (ELECTRIC)

CITY OF SHAWANO (WATER)

CITY OF SHAWANO (SEWER)

FRONTIER COMMUNICATIONS OF WISCONSIN LLC (COMMUNICATIONS)

STH 47/55

STH 22

W GREEN BAY ST

BP: 0+00.00

PI: 0+65.42

S89° 46' 57"E

N89° 06' 02"E

STA 0+00
Y=271938.10
X=859942.36

1+00

2+00

3+00

4+00

CONC CE

ASPH CE

ABANDONED

SIGN

FLAG

A/C

R/W

5

5

PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 182	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\050208-PN.DWG
LAYOUT NAME - 050208-PN

PLOT DATE : 8/1/2018 3:59 PM PLOT BY : DREW NELSON PLOT NAME : PLOT SCALE : 1 IN:40 FT

NOTE
SEE PAVING DETAILS FOR ADDITIONAL INFORMAITON FOR CURB & GUTTER, SIDEWALK, AND CURB RAMP REPAIRS

LEGEND
- (SS) ADJUSTING STORM SEWER MANHOLES
- (S) ADJUSTING SANITARY SEWER MANHOLES
- (W) ADJUSTING WATER VALVE BOXES

N

N SAWYER ST

N ANDREW ST

SHAWANO MUNICIPAL UTILITIES (ELECTRIC AND COMMUNICATIONS)
CHARTER COMMUNICATIONS (COMMUNICATIONS)
FRONTIER COMMUNICATIONS OF WISCONSIN LLC (COMMUNICATIONS)
NSIGHT TELESERVICES (COMMUNICATIONS)

END CONSTRUCTION, 22' LT (SEE CONSTRUCTION DETAILS)

SHAWANO MUNICIPAL UTILITIES (ELECTRIC)

CITY OF SHAWANO (WATER)

REMOVING CONCRETE SIDEWALK
REMOVING PAVEMENT
PROPOSED R/W
TLE
REMOVING CURB & GUTTER
REMOVING CONCRETE SURFACE PARTIAL DEPTH
ASPH CE
R/W

5

4+00 5+00 6+00 N89° 06' 02"E 7+00 STH 22 8+00 9+00 10+00

FRONTIER COMMUNICATIONS OF WISCONSIN LLC (COMMUNICATIONS)

CAUTION

SHAWANO MUNICIPAL UTILITIES (ELECTRIC)

WE ENERGIES (GAS)

CONC CE

REMOVING MASONRY (PLANTERS)

RESIDUAL GROUNDWATER CONTAMINATION AT A DEPTH OF APPROXIMATELY 10' BELOW THE EXISTING SURFACE

S SAWYER ST

S ANDREW ST

CITY OF SHAWANO (SEWER)

PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 183 E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\050208-PN.DWG
LAYOUT NAME - 050209-PN

PLOT DATE : 8/1/2018 3:59 PM PLOT BY : DREW NELSON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

NOTES

EXISTING LOOP DETECTORS FOR THE TRAFFIC SIGNALS ARE SHOWN IN THE APPROXIMATE LOCATIONS. LOOP DETECTOR DEPTHS ARE ANTICIPATED TO BE BELOW THE PROPOSED MILLING OPERATIONS. USE CAUTION WHEN MILLING NEAR THE EXISTING LOOP DETECTORS

SEE PAVING DETAILS FOR ADDITIONAL INFORMATION FOR CURB & GUTTER, SIDEWALK, AND CURB RAMP REPAIRS

LEGEND

- (SS) ADJUSTING STORM SEWER MANHOLES
- (S) ADJUSTING SANITARY SEWER MANHOLES
- (W) ADJUSTING WATER VALVE BOXES

N

N ANDREW ST

N LINCOLN ST

SHAWANO MUNICIPAL UTILITIES (ELECTRIC)
CHARTER COMMUNICATIONS (COMMUNICATIONS)
FRONTIER COMMUNICATIONS OF WISCONSIN LLC (COMMUNICATIONS)
NSIGHT TELESERVICES (COMMUNICATIONS)

END CONSTRUCTION, 45' LT BUTT JOINT REQ'D (SEE CONSTRUCTION DETAILS)

SHAWANO MUNICIPAL UTILITIES (ELECTRIC)

REMOVING CONCRETE SIDEWALK

REMOVING CURB & GUTTER

CITY OF SHAWANO (WATER)

PROPOSED R/W

REMOVING CONCRETE SIDEWALK

TLE

REMOVING CURB & GUTTER

END CONSTRUCTION, 50' LT BUTT JOINT REQ'D (SEE CONSTRUCTION DETAILS)

PROPOSED R/W

REMOVING CONCRETE SIDEWALK

WE ENERGIES (GAS)

R/W

ASPH

CE

5

10+00 | 11+00 | 12+00 | STH 22 | 13+00 | N89° 06' 02"E | 14+00 | 15+00 | 16+00

REMOVING CURB & GUTTER

CAUTION

CONC CE

PROPOSED R/W

TLE

REMOVING CONCRETE SIDEWALK

END CONSTRUCTION, 40' RT BUTT JOINT REQ'D (SEE CONSTRUCTION DETAILS)

SHAWANO MUNICIPAL UTILITIES (ELECTRIC)

WE ENERGIES (GAS)

REMOVING CONCRETE SIDEWALK

REMOVING CURB & GUTTER

PROPOSED R/W

REMOVING CONCRETE SIDEWALK

RESIDUAL GROUNDWATER CONTAMINATION AT A DEPTH OF APPROXIMATELY 8' TO 10' BELOW THE EXISTING SURFACE

END CONSTRUCTION, 70' RT BUTT JOINT REQ'D (SEE CONSTRUCTION DETAILS)

CITY OF SHAWANO (SEWER)

S ANDREW ST

S LINCOLN ST

CANOPY

FILLER CAP

PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 184 E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\050208-PN.DWG
LAYOUT NAME - 050210-PN

PLOT DATE : 8/1/2018 3:59 PM PLOT BY : DREW NELSON PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- (SS) ADJUSTING STORM SEWER MANHOLES
- (S) ADJUSTING SANITARY SEWER MANHOLES
- (W) ADJUSTING WATER VALVE BOXES

N

NOTE
SEE PAVING DETAILS FOR ADDITIONAL INFORMAITON FOR CURB & GUTTER, SIDEWALK, AND CURB RAMP REPAIRS

N UNION ST

N HAMLIN ST

STH 22

N89° 06' 02"E

16+00 17+00 18+00 19+00 20+00 21+00 22+00

5

5

PROPOSED R/W

REMOVING CONCRETE SIDEWALK

REMOVING CURB & GUTTER

END CONSTRUCTION, 23' LT (SEE CONSTRUCTION DETAILS)

REMOVING CONCRETE SIDEWALK

SHAWANO MUNICIPAL UTILITIES (ELECTRIC)

CHARTER COMMUNICATIONS (COMMUNICATIONS)
FRONTIER COMMUNICATIONS OF WISCONSIN LLC (COMMUNICATIONS)

END CONSTRUCTION, 34' LT BUTT JOINT REQ'D (SEE CONSTRUCTION DETAILS)

CITY OF SHAWANO (WATER)

ASPH CE

TLE

CONC PE

BASE AGG PE

R/W

REMOVING CURB

REMOVING CONCRETE SIDEWALK

REMOVING CONCRETE SURFACE PARTIAL DEPTH

REMOVING CURB & GUTTER

PROPOSED R/W

REMOVING CONCRETE SIDEWALK

END CONSTRUCTION, 22' RT (SEE CONSTRUCTION DETAILS)

WE ENERGIES (GAS)

FRONTIER COMMUNICATIONS OF WISCONSIN LLC (COMMUNICATIONS)

CITY OF SHAWANO (SEWER)

SHAWANO MUNICIPAL UTILITIES (ELECTRIC)

END CONSTRUCTION, 40' RT BUTT JOINT REQ'D (SEE CONSTRUCTION DETAILS)

NET LEC LLC (COMMUNICATIONS)

BM 602

SLOPE INTERCEPT

SHAWANO MUNICIPAL UTILITIES (ELECTRIC)
NSIGHT TELESERVICES (COMMUNICATIONS)
FRONTIER COMMUNICATIONS OF WISCONSIN LLC (COMMUNICATIONS)

RESIDUAL GROUNDWATER CONTAMINATION AT A DEPTH OF APPROXIMATELY 5' BELOW THE EXISTING SURFACE

S UNION ST

S HAMLIN ST

CAUTION

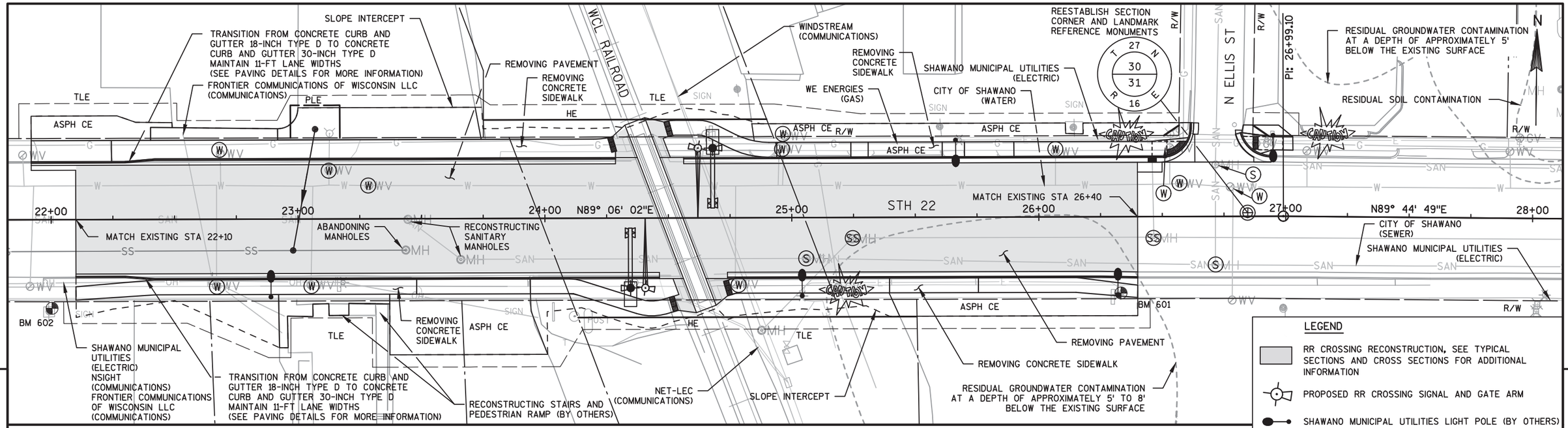
BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
60	222+00	NW BOLT OF POSITIVE ELECTRIC	813.30

PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 185	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\050208-PN.DWG
LAYOUT NAME - 050211-PN

PLOT DATE : 8/1/2018 3:59 PM PLOT BY : DREW NELSON PLOT NAME : PLOT SCALE : 1 IN:40 FT



NOTE
SEE PAVING DETAILS FOR ADDITIONAL INFORMATION

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
602	22+00	NW BOLT OF POSITIVE ELECTRIC	813.30
601	26+33	NW BOLT OF LIGHT POLE	814.25

PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	PLAN AND PROFILE	SHEET 186	E

LEGEND

- (SS) ADJUSTING STORM SEWER MANHOLES
- (S) ADJUSTING SANITARY SEWER MANHOLES
- (W) ADJUSTING WATER VALVE BOXES

RESIDUAL SOIL CONTAMINATION

RESIDUAL GROUNDWATER CONTAMINATION AT A DEPTH OF APPROXIMATELY 5' BELOW THE EXISTING SURFACE

RESIDUAL SOIL CONTAMINATION

WE ENERGIES (GAS)

CITY OF SHAWANO (SEWER)

CITY OF SHAWANO (WATER)

SHAWANO MUNICIPAL UTILITIES (ELECTRIC)

REMOVING CONCRETE SIDEWALK

PROPOSED R/W

TLE

END CONSTRUCTION, 22' LT (SEE CONSTRUCTION DETAILS)

PROPOSED R/W

REMOVING CONCRETE SIDEWALK

TLE

N FAIRVIEW AVE

RESIDUAL SOIL CONTAMINATION

RESIDUAL GROUNDWATER CONTAMINATION AT A DEPTH OF APPROXIMATELY 6' TO 7' BELOW THE EXISTING SURFACE

REMOVING CONCRETE SURFACE PARTIAL DEPTH

REMOVING PAVEMENT

SHAWANO MUNICIPAL UTILITIES (ELECTRIC AND COMMUNICATIONS)

28+00 29+00 30+00 STH 22 31+00 N89° 44' 49"E 32+00 33+00 34+00

CITY OF SHAWANO (SEWER)

EXISTING CORRUGATED MEDIAN AND PAVED MEDIAN TO REMAIN

SHAWANO MUNICIPAL UTILITIES (ELECTRIC AND COMMUNICATIONS)
NSIGHT TELESERVICES (COMMUNICATIONS)

REMOVING CURB & GUTTER

PROPOSED R/W

TLE

REMOVING CONCRETE SIDEWALK

END CONSTRUCTION, 60' RT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

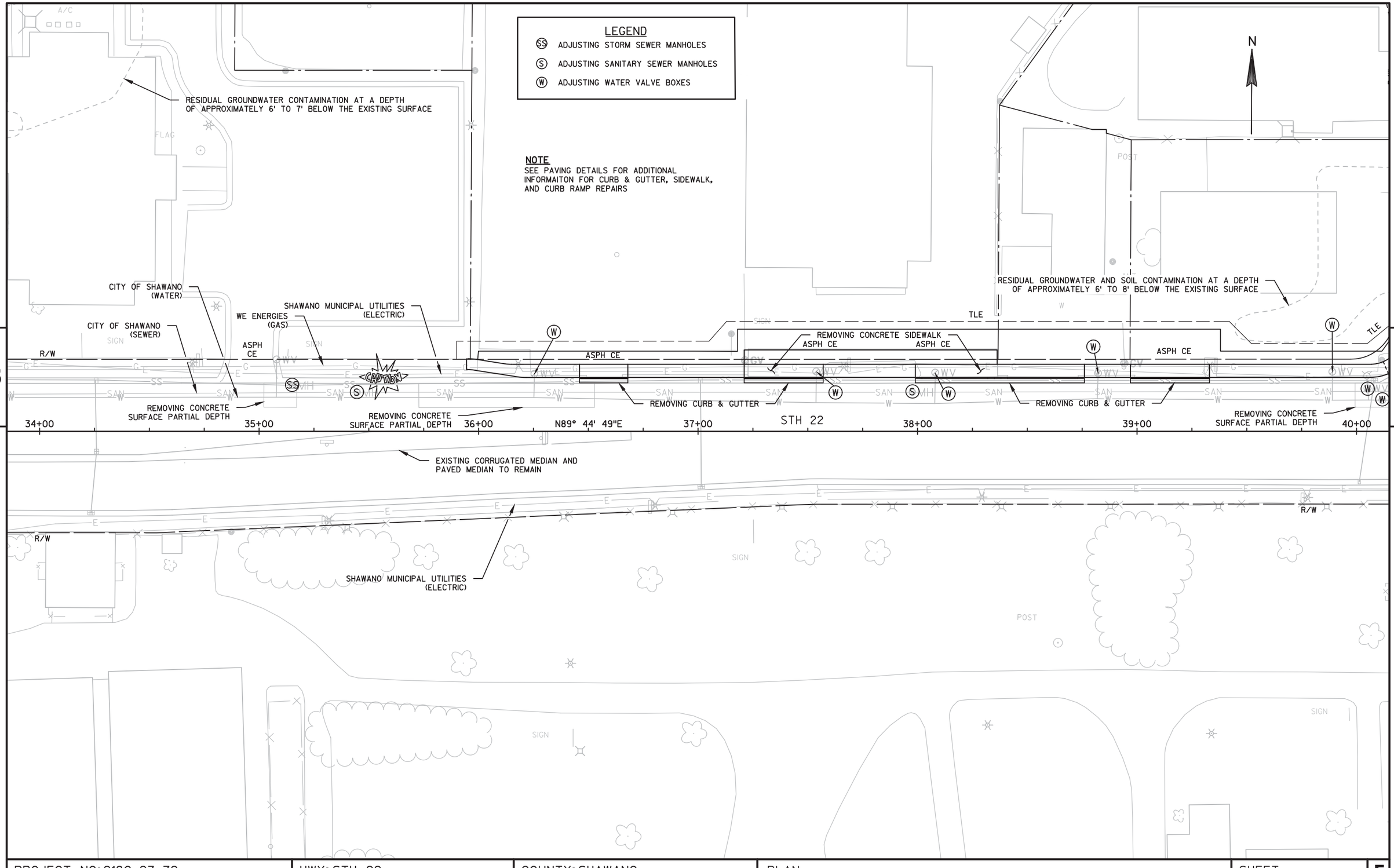
S FAIRVIEW AVE

NOTES

EXISTING LOOP DETECTORS FOR THE TRAFFIC SIGNALS ARE SHOWN IN THE APPROXIMATE LOCATIONS. LOOP DETECTOR DEPTHS ARE ANTICIPATED TO BE BELOW THE PROPOSED MILLING OPERATIONS. USE CAUTION WHEN MILLING NEAR THE EXISTING LOOP DETECTORS

SEE PAVING DETAILS FOR ADDITIONAL INFORMATION FOR CURB & GUTTER, SIDEWALK, AND CURB RAMP REPAIRS

PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 187	E



PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 188 E

RESIDUAL GROUNDWATER AND SOIL CONTAMINATION AT A DEPTH OF APPROXIMATELY 6' TO 8' BELOW THE EXISTING SURFACE

RESIDUAL SOIL CONTAMINATION

GREEN BAY CT

END CONSTRUCTION, 40' LT BUTT JOINT REQ'D (SEE CONSTRUCTION DETAILS)

REMOVING CONCRETE SIDEWALK

RESIDUAL GROUNDWATER CONTAMINATION AT A DEPTH OF APPROXIMATELY 3' TO 5' BELOW THE EXISTING SURFACE

RESIDUAL SOIL CONTAMINATION

SHAWANO MUNICIPAL UTILITIES (ELECTRIC)

CITY OF SHAWANO (SEWER)

WE ENERGIES (GAS)

5

5

REMOVING CURB & GUTTER

REMOVING CONCRETE SURFACE PARTIAL DEPTH

REMOVING CONCRETE SURFACE PARTIAL DEPTH

REMOVING CONCRETE SURFACE PARTIAL DEPTH

REMOVING CONCRETE SURFACE PARTIAL DEPTH

REMOVING CONCRETE SURFACE PARTIAL DEPTH

40+00 41+00 42+00 N89° 44' 49"E 43+00 STH 22 44+00 45+00 46+00

CITY OF SHAWANO (WATER)

SHAWANO MUNICIPAL UTILITIES (ELECTRIC)

NOTE
SEE PAVING DETAILS FOR ADDITIONAL INFORMAITON FOR CURB & GUTTER, SIDEWALK, AND CURB RAMP REPAIRS

LEGEND

- (SS) ADJUSTING STORM SEWER MANHOLES
- (S) ADJUSTING SANITARY SEWER MANHOLES
- (W) ADJUSTING WATER VALVE BOXES

PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 189 E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\050208-PN.DWG
LAYOUT NAME - 050215-PN

PLOT DATE : 8/1/2018 4:00 PM PLOT BY : DREW NELSON PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- (SS) ADJUSTING STORM SEWER MANHOLES
- (S) ADJUSTING SANITARY SEWER MANHOLES
- (W) ADJUSTING WATER VALVE BOXES

N

ARLINGTON ST

R/W

CONTROL POINT 519
Y = 272117.80
X = 864973.26
FENO MONUMENT
W/ALUMINUM CAP

WE ENERGIES (GAS)

SHAWANO MUNICIPAL UTILITIES (ELECTRIC)

CITY OF SHAWANO (SEWER)

END CONSTRUCTION, 22' LT
(SEE CONSTRUCTION DETAILS)

REMOVING CONCRETE SIDEWALK

REMOVING CONCRETE PAVEMENT

REMOVING CONCRETE SURFACE PARTIAL DEPTH

REMOVING CONCRETE SURFACE PARTIAL DEPTH

PC: 50+13.10

STH 22

N89° 44' 49"E

CURVE 2

46+00 47+00 48+00 49+00 50+00 51+00 52+00

ASPH CE

CONC CE

TLE

CITY OF SHAWANO (WATER)

RESIDUAL SOIL CONTAMINATION

SHAWANO MUNICIPAL UTILITIES (ELECTRIC)

SHAWANO MUNICIPAL UTILITIES (ELECTRIC)
CHARTER COMMUNICATIONS (COMMUNICATIONS)
FRONTIER COMMUNICATIONS OF WISCONSIN LLC (COMMUNICATIONS)
NSIGHT TELESERVICES (COMMUNICATIONS)

NOTE
SEE PAVING DETAILS FOR ADDITIONAL INFORMAITON FOR CURB & GUTTER, SIDEWALK, AND CURB RAMP REPAIRS

CURVE 2
PI STA = 54+27.24
Y = 271991.24
X = 865369.25
PC STA = 50+13.10
Y = 271989.41
X = 864955.11
PT STA = 58+41.15
Y = 271969.1396
X = 865782.80
DELTA = 3°18'44"
D = 0°24'00"
T = 414.14'
L = 828.05'
R = 14324.00'
SE = N/C

PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 190	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\050208-PN.DWG
LAYOUT NAME - 050216-PN

PLOT DATE : 11/12/2018 4:36 PM PLOT BY : SCOTT KAISER PLOT NAME : PLOT SCALE : 1 IN:40 FT

NOTES

EXISTING LOOP DETECTORS FOR THE TRAFFIC SIGNALS ARE SHOWN IN THE APPROXIMATE LOCATIONS. LOOP DETECTOR DEPTHS ARE ANTICIPATED TO BE BELOW THE PROPOSED MILLING OPERATIONS. USE CAUTION WHEN MILLING NEAR THE EXISTING LOOP DETECTORS

SEE PAVING DETAILS FOR ADDITIONAL INFORMATION FOR CURB & GUTTER, SIDEWALK, AND CURB RAMP REPAIRS

LEGEND

- (SS) ADJUSTING STORM SEWER MANHOLES
- (S) ADJUSTING SANITARY SEWER MANHOLES
- (W) ADJUSTING WATER VALVE BOXES

N

REESTABLISH SECTION CORNER AND LANDMARK REFERENCE MONUMENTS

T 27 N
30 29
31 32
R 16 E

SHAWANO MUNICIPAL UTILTIES (ELECTRIC)

REMOVING CONCRETE SIDEWALK

WE ENERGIES (GAS)

R/W

ASPH FE

EXISTING PAVED MEDIAN TO REMAIN

REMOVING CONCRETE SIDEWALK

REMOVING CURB & GUTTER

CEMETERY

SIGN

5

52+00 53+00 CURVE 2 54+00 55+00 STH 22 56+00 57+00 58+00

CITY OF SHAWANO (WATER)

REMOVING CURB & GUTTER

REMOVING CONCRETE SIDEWALK

SIDEWALK MAINTENANCE EASEMENT

TLE

ASPH CE

CURVE 2
PI STA = 54+27.24
Y = 271991.24
X = 865369.25
PC STA = 50+13.10
Y = 271989.41
X = 864955.11
PT STA = 58+41.15
Y = 271969.1396
X = 865782.80
DELTA = 3°18'44"
D = 0°24'00"
T = 414.14'
L = 828.05'
R = 14324.00'
SE = N/C

REMOVING CONCRETE SIDEWALK

CITY OF SHAWANO (SEWER)

S. WAUKECHON ST

FRONTIER COMMUNICATIONS OF WISCONSIN LLC (COMMUNICATIONS)

CITY OF SHAWANO (TRAFFIC SIGNAL LOOP DETECTORS)

END CONSTRUCTION, 50' RT BUTT JOINT REQ'D (SEE CONSTRUCTION DETAILS)

SHAWANO MUNICIPAL UTILTIES (ELECTRIC)

ASPH FE

R/W

PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 191	E

NOTES

EXISTING LOOP DETECTORS FOR THE TRAFFIC SIGNALS ARE SHOWN IN THE APPROXIMATE LOCATIONS. LOOP DETECTOR DEPTHS ARE ANTICIPATED TO BE BELOW THE PROPOSED MILLING OPERATIONS. USE CAUTION WHEN MILLING NEAR THE EXISTING LOOP DETECTORS

SEE PAVING DETAILS FOR ADDITIONAL INFORMATION FOR CURB & GUTTER, SIDEWALK, AND CURB RAMP REPAIRS

LEGEND

(SS) ADJUSTING STORM SEWER MANHOLES

(S) ADJUSTING SANITARY SEWER MANHOLES

(W) ADJUSTING WATER VALVE BOXES

N

WOODLAWN DR

R/W

CEMETERY

END CONSTRUCTION, 75' LT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

SHAWANO MUNICIPAL UTILITIES
(ELECTRIC)

REMOVING CONCRETE SIDEWALK

WE ENERGIES
(GAS)

REMOVING CURB & GUTTER

REMOVING CONCRETE SIDEWALK

FRONTIER COMMUNICATIONS
OF WISCONSIN LLC
(COMMUNICATIONS)

WE ENERGIES
(GAS)

CHARTER COMMUNICATIONS
(COMMUNICATIONS)

CITY OF SHAWANO
(TRAFFIC SIGNAL LOOP DETECTOR)

EXISTING CORRUGATED MEDIAN TO REMAIN

PT: 58+41.15

PI: 64+00.00

58+00 CURVE 2 59+00 60+00 S86° 56' 27"E 61+00 STH 22 62+00 63+00 64+00

5

5

REMOVING CURB & GUTTER

REMOVING CURB & GUTTER

ASPH CE

ASPH CE

ASPH FE

TLE

REMOVING CONCRETE SIDEWALK

REMOVING CONCRETE SIDEWALK

ASPH CE

CURVE 2
PI STA = 54+27.24
Y = 271991.24
X = 865369.25
PC STA = 50+13.10
Y = 271989.41
X = 864955.11
PT STA = 58+41.15
Y = 271969.1396
X = 865782.80
DELTA = 3°18'44"
D = 0°24'00"
T = 414.14'
L = 828.05'
R = 14324.00'
SE = N/C

WE ENERGIES
(ELECTRIC)
SHAWANO MUNICIPAL UTILITIES
(ELECTRIC)
CHARTER COMMUNICATIONS
(COMMUNICATIONS)
NSIGHT TELESERVICES
(COMMUNICATIONS)

END CONSTRUCTION, 22' RT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

SHAWANO LAKE SANITARY DISTRICT
(WATER)

SHAWANO MUNICIPAL UTILTIES
(ELECTRIC)
NSIGHT TELESERVICES
(COMMUNICATIONS)

MOUNTAIN BAY TRAIL

PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 192	E

STA 64+98 LT
REMOVE 1 - 12-INCH CMCP
1-12" CPCS REQ'D
2-AEW FOR CULVERT PIPE 12-INCH
STA 64+86.10, 42.0' LT, INVERT UPSTREAM: 815.60
STA 6507.15, 57.3' LT, INVERT DOWNSTREAM: 815.45

SHAWANO MUNICIPAL UTILTIES (ELECTRIC)

FRONTIER COMMUNICATIONS OF WISCONSIN LLC (COMMUNICATIONS)

CHARTER COMMUNICATIONS (COMMUNICATIONS)

REMOVING CONCRETE SIDEWALK

TLE

PLE

MOUNTAIN BAY TRAIL

CHARTER COMMUNICATIONS (COMMUNICATIONS)

WINDSTREAM NTI (COMMUNICATIONS)

RESIDUAL SOIL CONTAMINATION

WE ENERGIES (GAS)

RESIDUAL GROUNDWATER CONTAMINATION AT A DEPTH OF APPROXIMATELY 15' BELOW THE EXISTING SURFACE

REMOVING CURB & GUTTER

REMOVING CONCRETE SIDEWALK

REMOVING CURB & GUTTER

REMOVING ASPHALTIC SURFACE

SHAWANO LAKE SANITARY DISTRICT (WATER)

FRONTIER COMMUNICATIONS OF WISCONSIN LLC (COMMUNICATIONS)

END CONSTRUCTION, 29' RT
(SEE CONSTRUCTION DETAILS)

SHAWANO MUNICIPAL UTILTIES (ELECTRIC)
CHARTER COMMUNICATIONS (COMMUNICATIONS)
NSIGHT TELESERVICES (COMMUNICATIONS)

LAKELAND RD

STH 22

S86° 50' 28"E

PI: 64+00.00

PI: 69+75.00

64+00 65+00 66+00 67+00 68+00 69+00 70+00

R/W

5

5

LEGEND

- (SS) ADJUSTING STORM SEWER MANHOLES
- (S) ADJUSTING SANITARY SEWER MANHOLES
- (W) ADJUSTING WATER VALVE BOXES

N

NOTES

NO UTILITIES FIELD LOCATED BETWEEN STA 67+40 AND STA 75+50

SEE PAVING DETAILS FOR ADDITIONAL INFORMATION FOR CURB & GUTTER, SIDEWALK, AND CURB RAMP REPAIRS

PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 193	E

NOTES

NO UTILITIES FIELD LOCATED BETWEEN STA 67+40 AND STA 75+50

EXISTING LOOP DETECTORS FOR THE TRAFFIC SIGNALS ARE SHOWN IN THE APPROXIMATE LOCATIONS. LOOP DETECTOR DEPTHS ARE ANTICIPATED TO BE BELOW THE PROPOSED MILLING OPERATIONS. USE CAUTION WHEN MILLING NEAR THE EXISTING LOOP DETECTORS

SEE PAVING DETAILS FOR ADDITIONAL INFORMATION FOR CURB & GUTTER, SIDEWALK, AND CURB RAMP REPAIRS

LEGEND

- (SS) ADJUSTING STORM SEWER MANHOLES
- (S) ADJUSTING SANITARY SEWER MANHOLES
- (W) ADJUSTING WATER VALVE BOXES

N

EBERLEIN PARK DR

END CONSTRUCTION, 80' LT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

REMOVING SIDEWALK

ADJUSTING SANITARY MANHOLE (BY OTHERS)

ADJUSTING WATER VALVE BOXES (BY OTHERS)

REMOVING CURB & GUTTER

EXISTING CORRUGATED MEDIAN AND PAVED MEDIAN TO REMAIN

70+00 71+00 72+00 S86° 56' 27"E 73+00 STH 22 74+00 75+00 76+00

ADJUSTING SANITARY MANHOLE (BY OTHERS)

CITY OF SHAWANO
(TRAFFIC SIGNAL LOOP DETECTORS)

SHAWANO LAKE SANITARY DISTRICT
(SEWER)

END CONSTRUCTION, 43' RT
(SEE CONSTRUCTION DETAILS)

PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 194 E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\050208-PN.DWG
LAYOUT NAME - 050220-PN

PLOT DATE : 8/1/2018 4:01 PM PLOT BY : DREW NELSON PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

NOTES

NO UTILITIES FIELD LOCATED BETWEEN STA 77+00 AND STA 131+30

EXISTING LOOP DETECTORS FOR THE TRAFFIC SIGNALS ARE SHOWN IN THE APPROXIMATE LOCATIONS. LOOP DETECTOR DEPTHS ARE ANTICIPATED TO BE BELOW THE PROPOSED MILLING OPERATIONS. USE CAUTION WHEN MILLING NEAR THE EXISTING LOOP DETECTORS

LEGEND

- (SS) ADJUSTING STORM SEWER MANHOLES
- (S) ADJUSTING SANITARY SEWER MANHOLES
- (W) ADJUSTING WATER VALVE BOXES

N

FRONTIER COMMUNICATIONS OF WISCONSIN LLC (COMMUNICATIONS)

CHARTER COMMUNICATIONS (COMMUNICATIONS)

SHAWANO MUNICIPAL UTILITIES (ELECTRIC)

SHAWANO LAKE SANITARY DISTRICT (SEWER)

EXISTING 43" X 27" CPACS TO REMAIN
2-MARKERS FOR CULVERT END REQ'D

RESIDUAL GROUNDWATER CONTAMINATION AT A DEPTH OF APPROXIMATELY 3' TO 4' BELOW THE EXISTING SURFACE

RESIDUAL SOIL CONTAMINATION AT A DEPTH OF APPROXIMATELY 3' TO 6' BELOW THE EXISTING SURFACE

CITY OF SHAWANO
(TRAFFIC SIGNAL LOOP DETECTORS)

EXISTING CORRUGATED MEDIAN AND PAVED MEDIAN TO REMAIN

SHAWANO MUNICIPAL UTILITIES
(ELECTRIC)
CHARTER COMMUNICATIONS
(COMMUNICATIONS)
FRONTIER COMMUNICATIONS OF WISCONSIN LLC
(COMMUNICATIONS)
NSIGHT TELESERVICES
(COMMUNICATIONS)

CONTROL POINT 520
Y = 271815.41
X = 867607.08
FENO MONUMENT
W/ALUMINUM CAP

REESTABLISH SECTION CORNER AND LANDMARK REFERENCE MONUMENTS

T 27 N
R 29 32 E
16

5 5

76+00 77+00 78+00 STH 22 79+00 S86° 56' 27"E 80+00 81+00 82+00

R/W ASPH CE

PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 195	E

LEGEND

- (SS) ADJUSTING STORM SEWER MANHOLES
- (S) ADJUSTING SANITARY SEWER MANHOLES
- (W) ADJUSTING WATER VALVE BOXES

NOTE
NO UTILITIES FIELD LOCATED BETWEEN
STA 77+00 AND STA 131+30

N

R/W
ASPH CE
SIGN
POST
FLAG
SEPV
ASPH PE
MH

5

82+00 83+00 84+00 S86° 56' 27"E 85+00 STH 22 86+00 87+00 88+00

PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 196	E

LEGEND

- (SS) ADJUSTING STORM SEWER MANHOLES
- (S) ADJUSTING SANITARY SEWER MANHOLES
- (W) ADJUSTING WATER VALVE BOXES

NOTE
NO UTILITIES FIELD LOCATED BETWEEN
STA 77+00 AND STA 131+30

N

POST
POST
SIGN
W
ASPH
CE
BASE AGG
CE
R/W
RIPRAP
FLAG
FLAG
FLAG
W
W
W
WALL
SIGN
SIGN

5

PC: 89+11.96

88+00 S86° 56' 27"E 89+00 90+00 CURVE 3 91+00 STH 22 92+00 93+00 94+00

5

R/W
ASPH
CE
ASPH
CE
R/W
SIGN

CURVE 3
PI STA = 94+74.96
Y = 271774.22
X = 869411.38
PC STA = 89+11.96
Y = 271804.26
X = 868849.18
PT STA = 100+37.05
Y = 271799.4257
X = 869973.81
DELTA = 5°37'32"
D = 0°30'00"
T = 563.00'
L = 1125.09'
R = 11459.00'
SE = N/C

PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 197	E

NOTE
NO UTILITIES FIELD LOCATED BETWEEN
STA 77+00 AND STA 131+30

LEGEND
- (SS) ADJUSTING STORM SEWER MANHOLES
- (S) ADJUSTING SANITARY SEWER MANHOLES
- (W) ADJUSTING WATER VALVE BOXES

N

5

5

94+00 95+00 96+00 STH 22 97+00 CURVE 3 98+00 99+00 100+00

EXISTING CORRUGATED MEDIAN TO REMAIN

R/W
ASPH CE
SIGN
FLAG
WALLS
BASE AGG FE

CURVE 3
PI STA = 94+74.96
Y = 271774.22
X = 869411.38
PC STA = 89+11.96
Y = 271804.26
X = 868849.18
PT STA = 100+37.05
Y = 271799.4257
X = 869973.81
DELTA = 5°37'32"
D = 0°30'00"
T = 563.00'
L = 1125.09'
R = 11459.00'
SE = N/C

PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 198	E

NOTES

NO UTILITIES FIELD LOCATED BETWEEN STA 77+00 AND STA 131+30

EXISTING LOOP DETECTORS FOR THE TRAFFIC SIGNALS ARE SHOWN IN THE APPROXIMATE LOCATIONS. LOOP DETECTOR DEPTHS ARE ANTICIPATED TO BE BELOW THE PROPOSED MILLING OPERATIONS. USE CAUTION WHEN MILLING NEAR THE EXISTING LOOP DETECTORS

LEGEND

- (SS) ADJUSTING STORM SEWER MANHOLES
- (S) ADJUSTING SANITARY SEWER MANHOLES
- (W) ADJUSTING WATER VALVE BOXES

N

RESIDUAL GROUNDWATER CONTAMINATION AT A DEPTH OF APPROXIMATELY 3' TO 4' BELOW THE EXISTING SURFACE

FILLER CAP

CANOPY

SIGN

R/W

ASPH CE

EXISTING PAVED MEDIAN TO REMAIN

5

PT: 100+37.05

CURVE 3

100+00 101+00 102+00 STH 22 103+00 N87° 26' 01"E 104+00 105+00 106+00

CITY OF SHAWANO
(TRAFFIC SIGNAL LOOP DETECTORS)

MH

SS

W

FLAG

CURVE 3
PI STA = 94+74.96
Y = 271774.22
X = 869411.38
PC STA = 89+11.96
Y = 271804.26
X = 868849.18
PT STA = 100+37.05
Y = 271799.4257
X = 869973.81
DELTA = 5°37'32"
D = 0°30'00"
T = 563.00'
L = 1125.09'
R = 11459.00'
SE = N/C

PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 199 E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\050208-PN.DWG
LAYOUT NAME - 050225-PN

PLOT DATE : 8/1/2018 4:01 PM PLOT BY : DREW NELSON PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- (SS) ADJUSTING STORM SEWER MANHOLES
- (S) ADJUSTING SANITARY SEWER MANHOLES
- (W) ADJUSTING WATER VALVE BOXES

NOTES

NO UTILITIES FIELD LOCATED BETWEEN STA 77+00 AND STA 131+30

EXISTING LOOP DETECTORS FOR THE TRAFFIC SIGNALS ARE SHOWN IN THE APPROXIMATE LOCATIONS. LOOP DETECTOR DEPTHS ARE ANTICIPATED TO BE BELOW THE PROPOSED MILLING OPERATIONS. USE CAUTION WHEN MILLING NEAR THE EXISTING LOOP DETECTORS

N

CTH HHH

R/W

SIGN

RESIDUAL GROUNDWATER CONTAMINATION AT A DEPTH OF APPROXIMATELY 3' TO 4' BELOW THE EXISTING SURFACE

END CONSTRUCTION, 85' LT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

MH

GV

CAUTION

CITY OF SHAWANO
(TRAFFIC SIGNAL LOOP DETECTORS)

EXISTING 18" CPRC TO REMAIN
2-MARKERS FOR CULVERT END REQ'D

ASPH
CE

EXISTING PAVED MEDIAN TO REMAIN

106+00 107+00 108+00 STH 22 109+00 N87° 26' 01"E 110+00 111+00 112+00

ADJUSTING WATER
VALVE BOXES
(BY OTHERS)

ADJUSTING SANITARY MANHOLE COVERS
(BY OTHERS)

WV

ASPH
CE

BASE AGG
CE

FLAG

REESTABLISH SECTION
CORNER AND LANDMARK
REFERENCE MONUMENTS

T 27 N
R 29 28 E
32 33
16

STH 47/55

END CONSTRUCTION, 75' RT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 200	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\050226-PN.DWG
LAYOUT NAME - 050226-PN

PLOT DATE : 8/29/2018 7:47 PM PLOT BY : SCOTT KAISER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

LEGEND

(SS) ADJUSTING STORM SEWER MANHOLES

(S) ADJUSTING SANITARY SEWER MANHOLES

(W) ADJUSTING WATER VALVE BOXES

N

NOTE
NO UTILITIES FIELD LOCATED BETWEEN
STA 77+00 AND STA 131+30

5

5

R/W

ASPH CE

SIGN

EXISTING 18" CPRC TO REMAIN
2-MARKERS FOR CULVERT END REQ'D

EXISTING PAVED MEDIAN TO REMAIN

EXISTING CORRUGATED MEDIAN TO REMAIN

END PROJECT 9180-23-72
BEGIN CONSTRUCTION PROJECT
9180-23-71 STA 116+47

A/C

A/C

A/C

M

W

FLAG

112+00 113+00 114+00 STH 22 115+00 N87° 26' 01"E 116+00 117+00 118+00

PROJECT NO: 9180-23-71/72	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 201	E

LEGEND

- (SS) ADJUSTING STORM SEWER MANHOLES
- (S) ADJUSTING SANITARY SEWER MANHOLES
- (W) ADJUSTING WATER VALVE BOXES

NOTE
NO UTILITIES FIELD LOCATED BETWEEN STA 77+00 AND STA 131+30

CURVE 4
PI STA = 124+15.93
Y = 271905.94
X = 872350.30
PC STA = 119+68.59
Y = 271885.91
X = 871903.41
PT STA = 128+62.81
Y = 271891.0758
X = 872797.39
DELTA = 4°28'16"
D = 0°30'00"
T = 447.33'
L = 894.22'
R = 11459.00'
SE = N/C

N

R/W
ASPH
CE
R/W
SIGN
PC: 119+68.59
5
5
118+00
N87° 26' 01"E
119+00
120+00
STH 22
121+00
122+00
CURVE 4
123+00
124+00
W
POST
SIGN
ASPH
CE
W
SIGN
W
W
ASPH
CE
POST
ASPH
CE
R/W
SIGN
W
FLAG
POST
W

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 202	E

NOTE
NO UTILITIES FIELD LOCATED BETWEEN
STA 77+00 AND STA 131+30

LEGEND
- (SS) ADJUSTING STORM SEWER MANHOLES
- (S) ADJUSTING SANITARY SEWER MANHOLES
- (W) ADJUSTING WATER VALVE BOXES

CURVE 4
PI STA = 124+15.93
Y = 271905.94
X = 872350.30
PC STA = 119+68.59
Y = 271885.91
X = 871903.41
PT STA = 128+62.81
Y = 271891.0758
X = 872797.39
DELTA = 4°28'16"
D = 0°30'00"
T = 447.33'
L = 894.22'
R = 11459.00'
SE = N/C

N

R/W
ASPH
CE
R/W

PT: 128+62.81

5
5

124+00 125+00 CURVE 4 126+00 STH 22 127+00 128+00 129+00 S88° 05' 43"E 130+00

SIGN
SIGN
SIGN
SIGN
R/W
ASPH
CE
POST
POST
SIGN
MH SAN
WV W
SHAWANO LAKE SANITARY DISTRICT (SEWER)
SHAWANO LAKE SANITARY DISTRICT (WATER)
POST
R/W
SEPC
FLAG
POST

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 203	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\050226-PN.DWG
LAYOUT NAME - 050229-PN
PLOT DATE : 8/29/2018 7:58 PM PLOT BY : SCOTT KAISER PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- ADJUSTING STORM SEWER MANHOLES
- ADJUSTING SANITARY SEWER MANHOLES
- ADJUSTING WATER VALVE BOXES
- CLEARING & GRUBBING
- PERMITTED WETLAND IMPACTS
- DELINEATED WETLAND BOUNDARY
- SLOPE INTERCEPT

NOTES
NO UTILITIES FIELD LOCATED BETWEEN STA 77+00 AND STA 131+30

REMOVE AND REPLACE CURB AND GUTTER AT RUSCH RD INTERSECTION; SEE CONSTRUCTION DETAILS AND PAVING DETAILS FOR ADDITIONAL INFORMATION

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
522	132+82	FENO MONUMENT	810.94

N

STA 134+99 - STA 137+93, LT
SALVAGE RAIL AND TERMINALS

TLE

FROGBRIDGE

FRONTIER COMMUNICATIONS OF WISCONSIN LLC (COMMUNICATIONS)

SHAWANO LAKE SANITARY (WATER)

WE ENERGIES (GAS)

BASE AGG CE

R/W

DO NOT DISTURB MH

CAUTION

SEALING PIPES

5

5

130+00 131+00 132+00 133+00 134+00 135+00 136+00

STA 133+33.10
STA 5+00'R'
Y=271875.44
X=873267.41

STH 22

S88° 05' 43"E

BEGIN FULL DEPTH PAVEMENT RECONSTRUCTION STA 135+70

REMOVING CONCRETE CURB & GUTTER

ADJUSTING SANITARY MANHOLE COVERS (BY OTHERS)

SHAWANO LAKE SANITARY DISTRICT (SEWER)

SHAWANO LAKE SANITARY DISTRICT (WATER)

BASE AGG FE

SHAWANO MUNICIPAL UTILITIES (ELECTRIC)

SHAWANO MUNICIPAL UTILITIES (ELECTRIC)
CHARTER COMMUNICATIONS (COMMUNICATIONS)
NSIGHT TELESERVICES (COMMUNICATIONS)

FRONTIER COMMUNICATIONS OF WISCONSIN LLC (COMMUNICATIONS)

T 27 N
28
33
R 16 E

REESTABLISH SECTION CORNER AND LANDMARK REFERENCE MONUMENTS

CONTROL POINT/BM 522
Y = 271817.60
X = 873214.11
ELEV = 810.94
FENO MONUMENT
W/ALUMINUM CAP

4+00

RUSCH RD

N1° 37' 31"W

EXISTING CULVERT (TO REMAIN)

END CONSTRUCTION, 95' RT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

STA 134+89 - STA 138+20, RT
SALVAGE RAIL AND END TERMINALS

REMOVING OLD STRUCTURE STA 135+70
REMOVE 1-71X47-INCH CORRUGATED STEEL PIPE ARCH

REMOVE AND REPLACE CURB AND GUTTER AT RUSCH RD INTERSECTION
SEE PAVING DETAILS FOR ADDITIONAL INFORMATION

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 204	E

LEGEND

- (SS) ADJUSTING STORM SEWER MANHOLES
- (S) ADJUSTING SANITARY SEWER MANHOLES
- (W) ADJUSTING WATER VALVE BOXES
- CLEARING & GRUBBING
- PERMITTED WETLAND IMPACTS
- DELINEATED WETLAND BOUNDARY
- SLOPE INTERCEPT

BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
600	137+40	RR SPIKE IN POWER POLE	809.89

STA 134+99 - STA 137+93, LT
SALVAGE RAIL AND END TERMINALS

STA 138+80 LT
REMOVE 1-15 INCH CMCP
1-18" CPCS REQ'D
2-AEW FOR CULVERT PIPE SLOPED SIDE DRAINS STEEL 18-INCH 6 TO 1
STA 139+07 40.2' LT, INVERT UPSTREAM: 808.40
STA 138+54 50.8' LT, INVERT DOWNSTREAM: 808.05

TLE
REMOVING WATERMAIN
SEALING PIPES
SANITARY SEWER MANHOLE AND WATER MANHOLE ADJUSTMENTS (BY OTHERS)
PROPOSED
R/W
WE ENERGIES (GAS)
PROPOSED R/W
BM 600
STA 138+47.26 O/S 47.00' LT
ASPH CE
STA 139+10.72 O/S 47.00' LT
SHAWANO LAKE SANITARY DISTRICT (WATER)
FRONTIER COMMUNICATIONS OF WISCONSIN LLC (COMMUNICATIONS)
END CONSTRUCTION, 65' LT
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)
BASE AGG CE
SHAWANO LAKE SANITARY DISTRICT (SEWER)
N
5
136+00
137+00
138+00
S88° 05' 43"E
139+00
STH 22
140+00
141+00
142+00
END FULL DEPTH PAVEMENT CONSTRUCTION
STA 136+70
SHAWANO MUNICIPAL UTILITIES (ELECTRIC)
MATCH EXISTING TURN LANE PAVEMENT 25' RT
S-58-0001 (TO REMAIN)
PROPOSED R/W
MURRAY CREEK
SHAWANO MUNICIPAL UTILITIES (ELECTRIC)
CHARTER COMMUNICATIONS (COMMUNICATIONS)
NSIGHT TELESERVICES (COMMUNICATIONS)

STA 134+89 - STA 138+20, RT
SALVAGE RAIL AND TERMINALS

STA 136+28
REMOVING OLD STRUCTURE 135+72

STRUCTURE C-58-31 REQ'D

STA 136+34 1 CELL 16' X 4' BOX CULVERT
SKEW 9 DEG RHF

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 205	E

NOTE
NO UTILITIES FIELD LOCATED BETWEEN STA 142+00
AND STA 156+82 OTHER THAN SANITARY SEWER

LEGEND
- (SS) ADJUSTING STORM SEWER MANHOLES
- (S) ADJUSTING SANITARY SEWER MANHOLES
- (W) ADJUSTING WATER VALVE BOXES
- CLEARING & GRUBBING
- PERMITTED WETLAND IMPACTS
- DELINEATED WETLAND BOUNDARY
- SLOPE INTERCEPT

CURVE 5
PI STA = 144+97.49
Y = 271836.74
X = 874431.17
PC STA = 142+98.98
Y = 271843.34
X = 874232.77
PT STA = 146+95.88
Y = 271842.2632
X = 874629.61
DELTA = 3°29'55"
D = 0°52'53"
T = 198.51'
L = 396.90'
R = 6500.00'
SE = N/C

N

R/W
ASPH
CE
SHAWANO LAKE SANITARY DISTRICT
(SEWER)
SAN
WV
SIGN
POST
PC: 142+98.98
PT: 146+95.88
142+00
S88° 05' 43"E
143+00
144+00
CURVE 5
145+00
STH 22
146+00
147+00
N88° 24' 22"E
148+00
5

MATCH EXISTING TURN LANE
PAVEMENT 25' RT
MATCH EXISTING ASPHALT
PAVEMENT 36' RT
MADISON WAY

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 206	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\050226-PN.DWG
LAYOUT NAME - 050232-PN
PLOT DATE : 8/29/2018 7:59 PM PLOT BY : SCOTT KAISER PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- (SS) ADJUSTING STORM SEWER MANHOLES
- (S) ADJUSTING SANITARY SEWER MANHOLES
- (W) ADJUSTING WATER VALVE BOXES

NOTE
NO UTILITIES FIELD LOCATED BETWEEN STA 142+00
AND STA 156+82 OTHER THAN SANITARY SEWER

N

SIGN

R/W

POST

POST

R/W

EXISTING 29" X 45" CPRCHE TO REMAIN
2-MARKERS FOR CULVERT END REQ'D

SHAWANO LAKE SANITARY DISTRICT
(SEWER)

POST

MH

SAN

SAN

SAN

SAN

SAN

SAN

SAN

SAN

SAN

SAN

SAN

PC: 149+63.87

PT: 152+91.95

PI: 154+00.22

5

5

148+00

N88° 24' 22"E

149+00

150+00

151+00

STH 22

152+00

CURVE 6

153+00

N89° 41' 24"E

154+00

MATCH EXISTING PAV'T
JOINT 12' RT

MATCH EXISTING ASPHALT
PAVEMENT 25' RT

CURVE 6
PI STA = 151+27.92
Y = 271854.28
X = 875061.48
PC STA = 149+63.87
Y = 271849.72
X = 874897.49
PT STA = 152+91.95
Y = 271855.1675
X = 875225.52
DELTA = 1°17'01"
D = 0°23'29"
T = 164.05'
L = 328.08'
R = 14643.17'
SE = N/C

CONTROL POINT 523
Y = 271772.78
X = 875173.47
FENO MONUMENT
W/ALUMINUM CAP

CTH BE

R/W

R/W

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 207	E

LEGEND

(SS) ADJUSTING STORM SEWER MANHOLES

(S) ADJUSTING SANITARY SEWER MANHOLES

(W) ADJUSTING WATER VALVE BOXES

NOTE
NO UTILITIES FIELD LOCATED BETWEEN STA 142+00
AND STA 156+82 OTHER THAN SANITARY SEWER

N

POST

DO NOT DISTURB

T 27 N
R 28 27 E
33 34
16

R/W

BASE AGG
FE

SHAWANO LAKE SANITARY DISTRICT
(SEWER)

SAN SAN SAN SAN SAN SAN SAN SAN SAN SAN

POST

HW

ASH CIR

5

5

PI: 154+00.22

154+00 155+00 STH 22 156+00 157+00 S89° 25' 16"E 158+00 159+00 160+00

STA 159+00
Y=271850.70
X=875833.54

END PROJECT 9180-23-71
STA 156+82
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

MATCH EXISTING ASPHALT
PAVEMENT 25' RT

RESIDUAL GROUNDWATER CONTAMINATION AT A DEPTH OF
APPROXIMATELY 4' TO 5' BELOW THE EXISTING SURFACE

POST POST SIGN

ASPH
CE

ASPH
CE

R/W

SIGN

POST

R/W

R/W

ASH CT

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	PLAN	SHEET 208	E

LEGEND

- (SS) ADJUSTING STORM SEWER MANHOLES
- (S) ADJUSTING SANITARY SEWER MANHOLES
- (W) ADJUSTING WATER VALVE BOXES
- CLEARING & GRUBBING
- PERMITTED WETLAND IMPACTS
- DELINEATED WETLAND BOUNDARY
- SLOPE INTERCEPT

NOTE
THE PROPOSED DRIVEWAY IS LOCATED 360' SOUTH OF THE STH 22 CENTERLINE

N

R/W

STA 1+00 'R'
Y=271475.61
X=873278.75

1+00'R' 2+00'R' N1° 37' 31"W RUSCH RD 3+00'R' 4+00'R'

STA 4+05 'R'
END CONSTRUCTION
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

STA 5+00 'R'=
STA 133+33.10
Y=271875.44
X=873267.41

STA 1+04.96 'R'
0/S 39.00' R

R20'

R20'

BASE
AGG CE

STA 1+79.96 'R'
0/S 39.00' R

STA 1+24.96 'R'
0/S 50.00' R

35'

TLE

STA 1+59.96 'R'
0/S 50.00' R

FRONTIER COMMUNICATIONS OF WISCONSIN LLC
(COMMUNICATIONS)

STA 1+42 RT
1-24X38-INCH CPRCHE REQ'D
2-AEW FOR CULVERT PIPE REINFORCED CONCRETE
HORIZONTAL ELLIPTICAL 24X38-INCH STEEL 24-INCH 6 TO 1
STA 1+75.0 'R' 30.2' RT, INVERT UPSTREAM: 806.80 (N)
STA 1+11.0 'R' 30.3' RT, INVERT DOWN STREAM: 806.60 (S)

STH 22

132+00 133+00 134+00 135+00

R/W

GUY SAN OH T G MH

PROJECT NO: 9180-23-71	HWY: STH 22	COUNTY: SHAWANO	PLAN - RUSCH RD DRIVEWAY	SHEET 209 E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\050227-PN.DWG
LAYOUT NAME - ****

PLOT DATE : 8/29/2018 8:04 PM PLOT BY : SCOTT KAISER PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

Standard Detail Drawing List

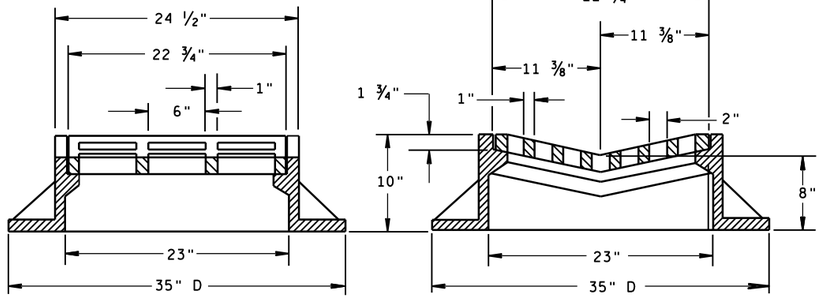
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C06-02	INLETS 3-FT AND 4-FT DIAMETER
08D01-20A	CONCRETE CURB & GUTTER
08D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-19A	CURB RAMPS TYPES 1 AND 1-A
08D05-19B	CURB RAMPS TYPES 2 AND 3
08D05-19C	CURB RAMPS TYPES 4A AND 4A1
08D05-19D	CURB RAMPS TYPE 4B AND 4B1
08D05-19E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-19F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-19G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D18-02	DRIVEWAY AND SIDEWALK RAMPS TYPES X & Y
08D19-02	DRIVEWAY AND SIDEWALK RAMPS TYPE Z
08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08D22-01	DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F02-01	APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
08F07-05	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE FRAINS
12A03-10	NAME PLATE (STRUCTURES)
13B01-10	PAVEMENT DETAILS FOR RAILROAD APPROACH
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C04-17	URBAN NON-DOWELED CONCRETE PAVEMENT
13C18-06A	CONCRETE PAVEMENT JOINTING
13C18-06B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-06C	CONCRETE PAVEMENT JOINT TYPES
13C18-06D	CONCRETE PAVEMENT JOINT TYPES AT UTILITY FIXTURES
14B07-15A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-15I	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B15-11A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
14B42-06A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-14B	PAVEMENT MARKING WORDS
15C07-14C	PAVEMENT MARKING ARROWS
15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15C08-19B	PAVEMENT MARKING (TURN LANES)
15C08-19C	PAVEMENT MARKING (TURN LANES)
15C09-11A	SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-06	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C18-04	MEDIAN ISLAND MARKING

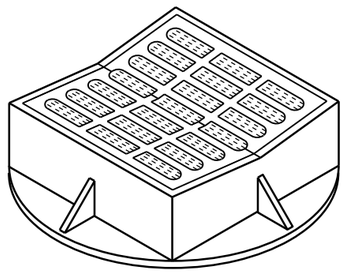
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Standard Detail Drawing List

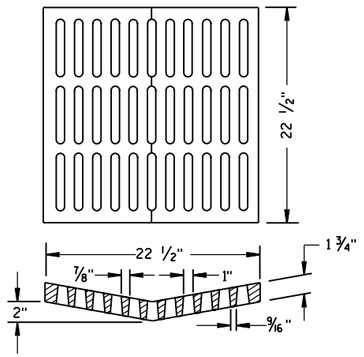
15C19-05A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-05B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C27-03B	PAVEMENT MARKING (ISLANDS)
15C33-03	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-03A	PAVEMENT MARKING (INTERSECTIONS)
15D12-06A	TRAFFIC CONTROL, LANE CLOSURE
15D20-04	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D21-06	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D30-04A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-04B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-04C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING
16A01-07	LANDMARK REFERENCE MONUMENTS AND COVERS

6



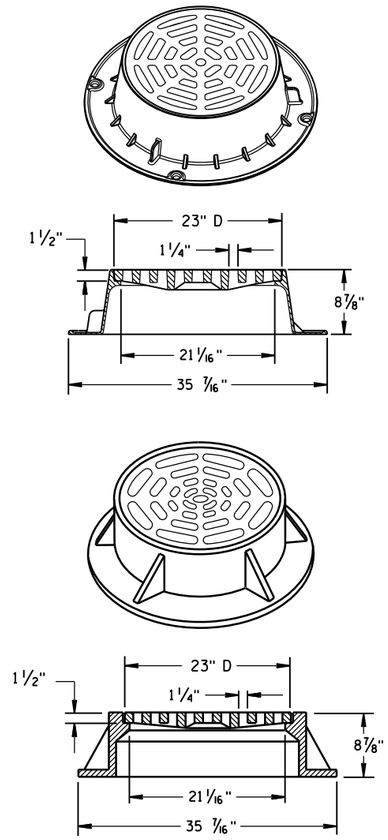


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

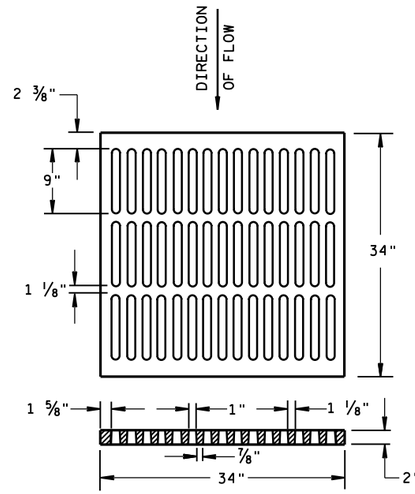
NOTE: EITHER CASTING IS ACCEPTABLE

GENERAL NOTES

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

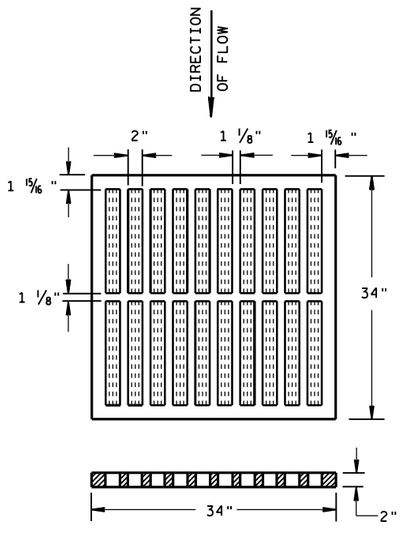
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



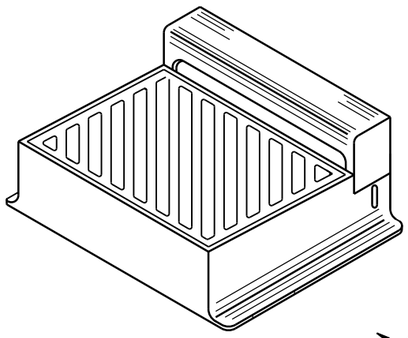
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

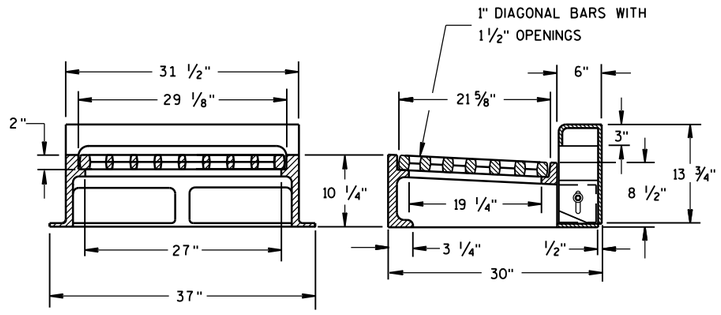


TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

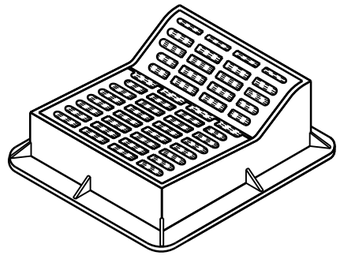
INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM

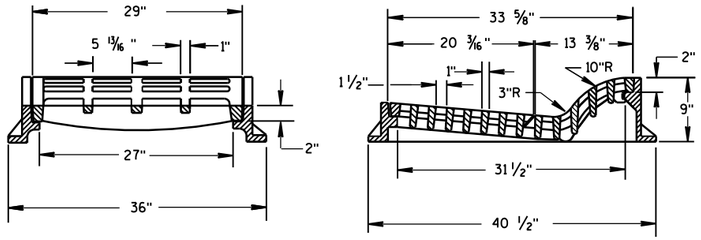
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

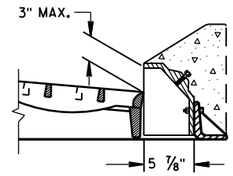
S.D.D. 8 A 5-19b





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

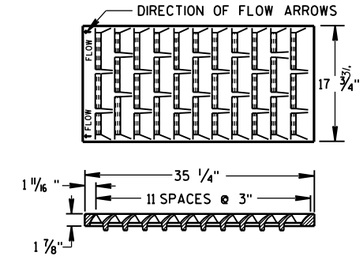
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

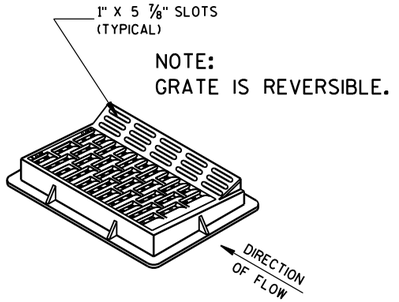
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

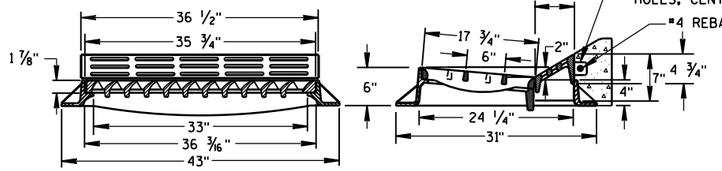
GENERAL NOTES

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

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



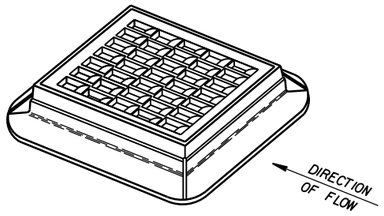


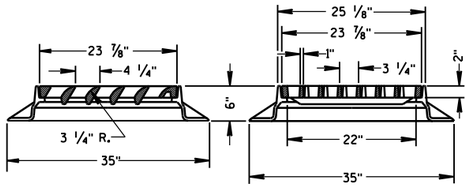


TYPE "HM"

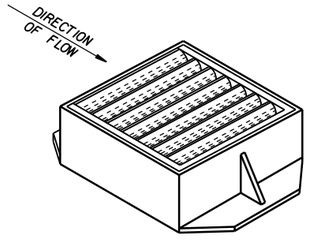
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

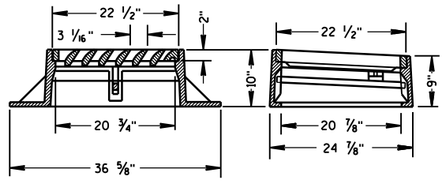
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



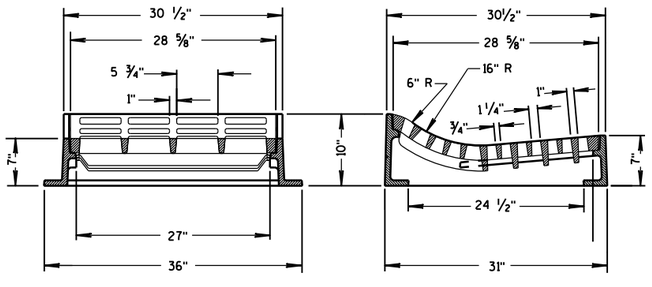


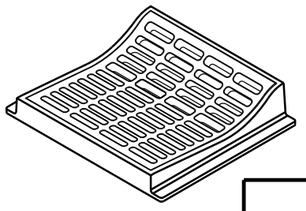
TYPE "S"





TYPE "V"





TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.

INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

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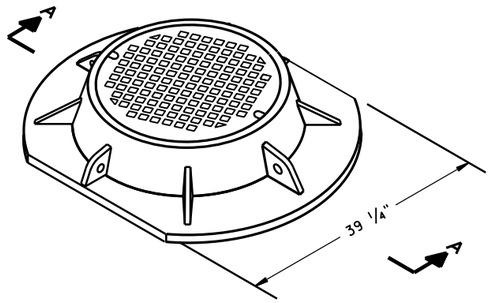
FHWA

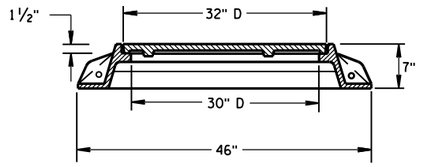
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S.D.D. 8 A 5-19c

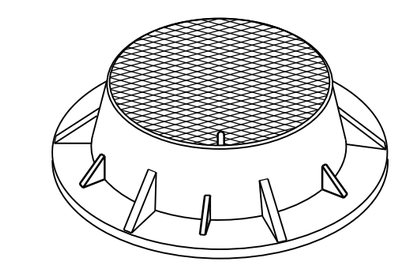
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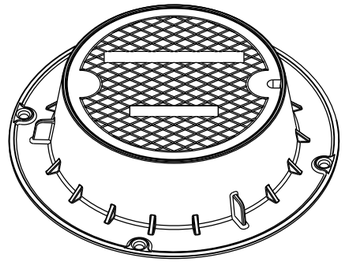
S.D.D. 8 A 5-19c

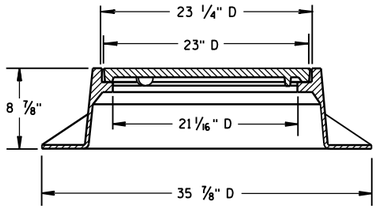


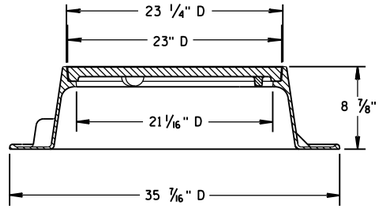


SECTION A-A
TYPE "K"









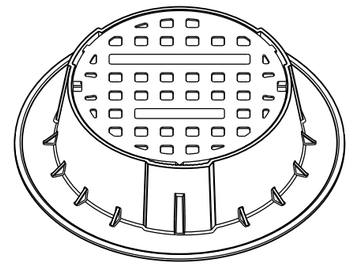
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

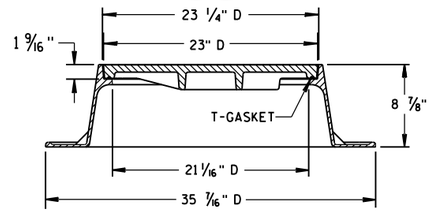
GENERAL NOTES

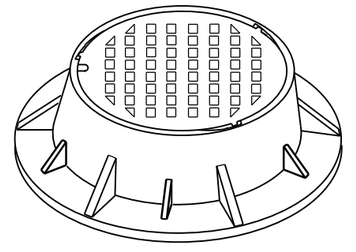
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

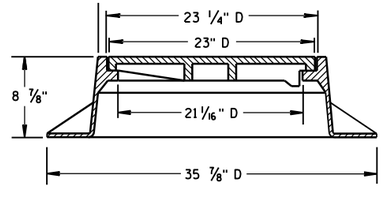
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

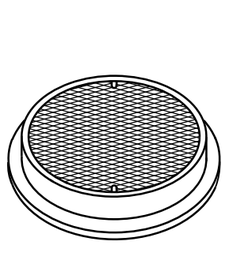


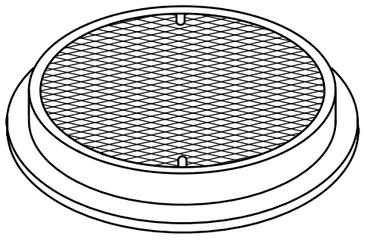


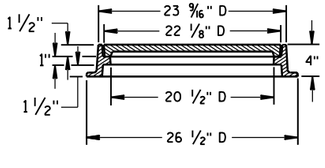




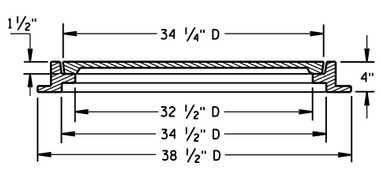
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



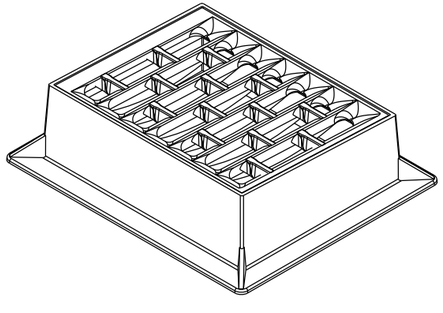


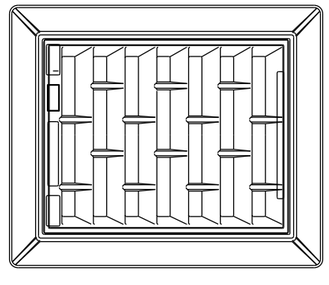


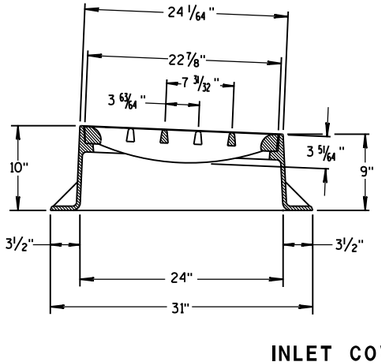
TYPE "L"

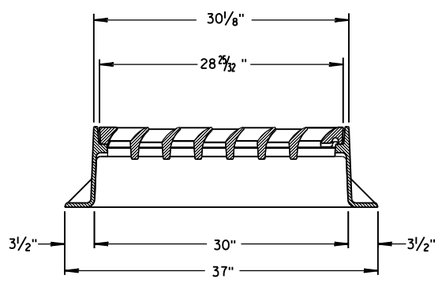


TYPE "M"









INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

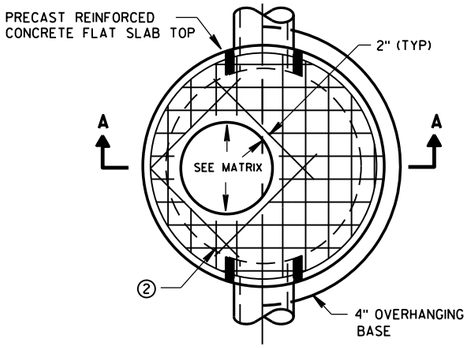
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

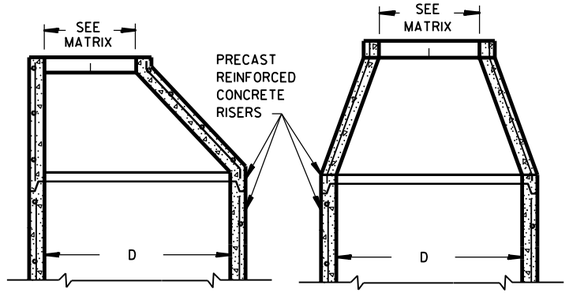
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

S.D.D. 8 A 5-19d

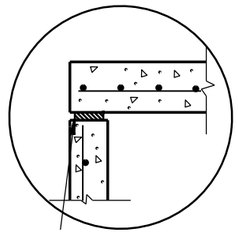


PLAN VIEW CIRCULAR OPENING

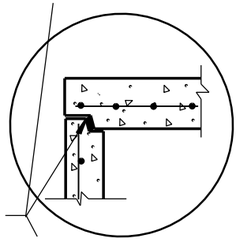


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

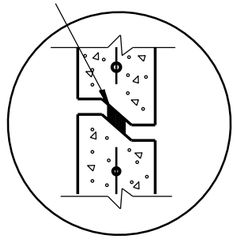


TOP WITH PLAIN END JOINT



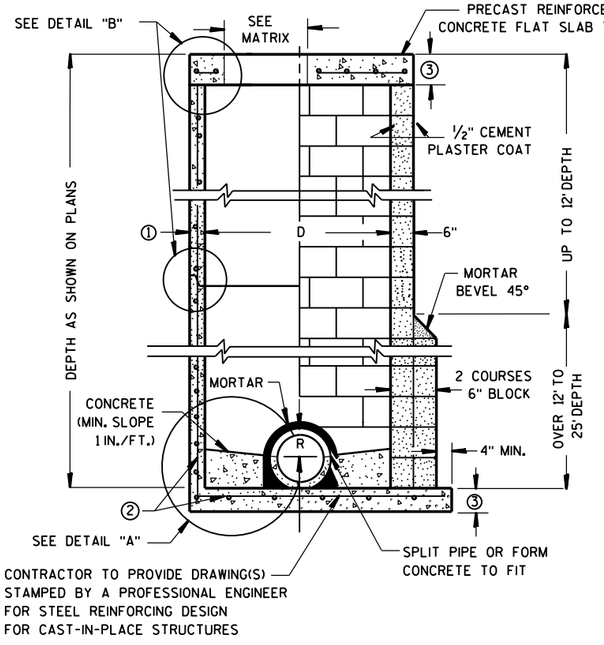
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



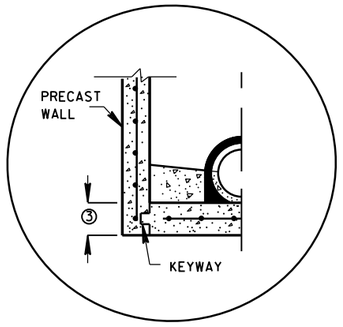
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

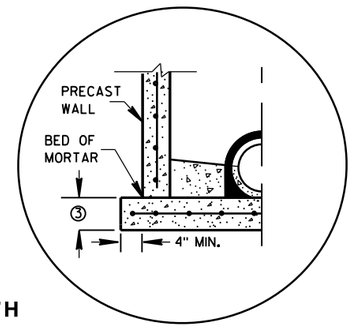


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

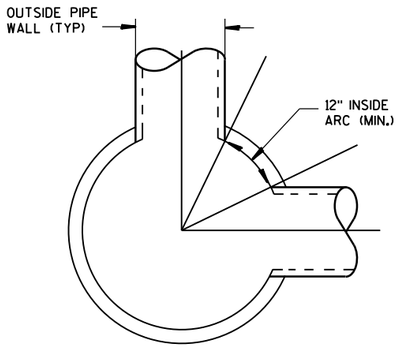


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST MANHOLE UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING AASHTO M199 AND THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE. REINFORCING BAR MUST BE A MINIMUM OF ½" AND MEET THE REQUIREMENTS OF ASTM A615.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

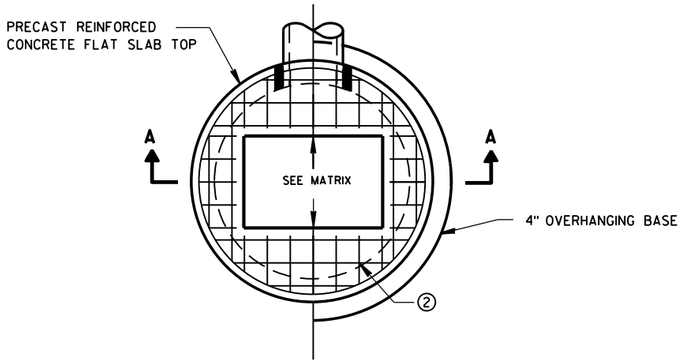
APPROVED

Sept., 2016
DATE

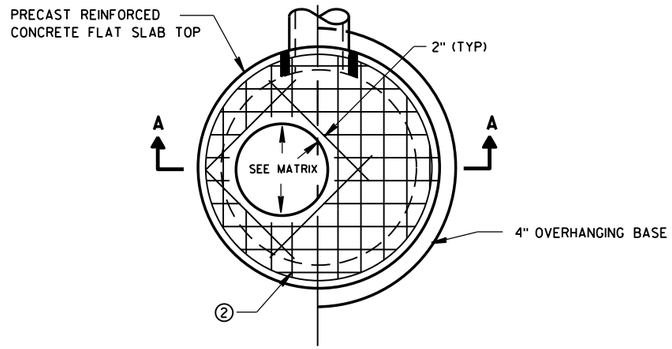
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERV

FHWA

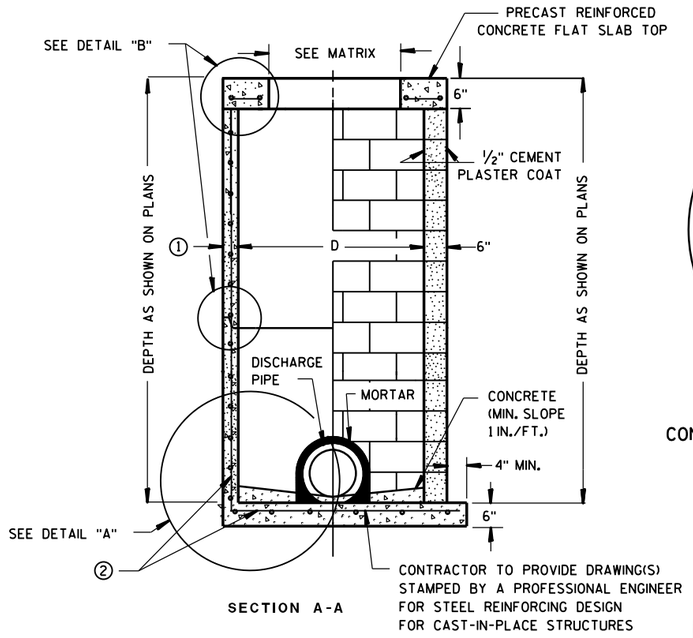
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S.D.D. 8 B 9-2



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

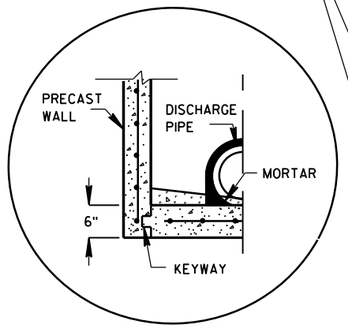


SECTION A-A

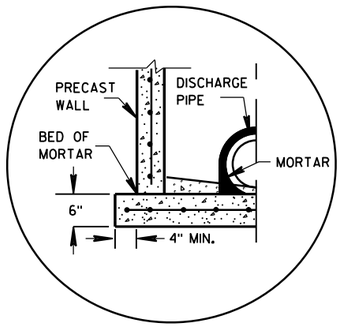
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

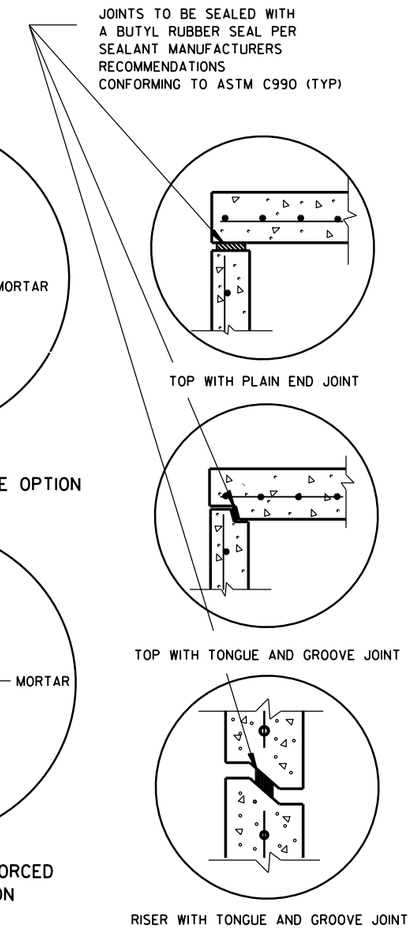


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "B"

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

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ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

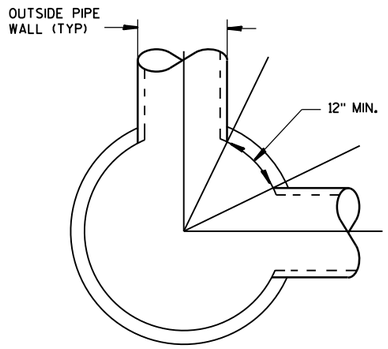
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

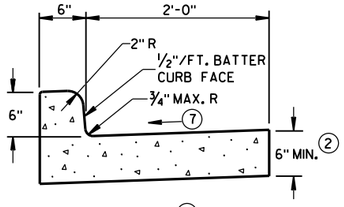
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — /S/ Rodney Taylor
DATE — ROADWAY STANDARDS | ENT UNIT SUPERVI
FHWA

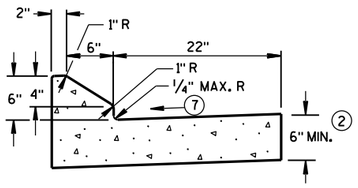
INLETS 3-FT AND 4-FT DIAMETER

6

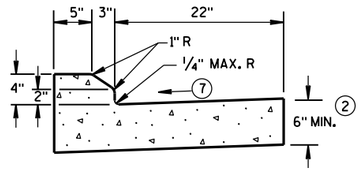
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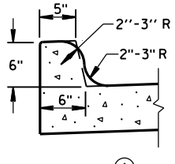
TYPES A (1) & D



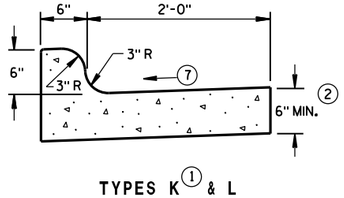
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

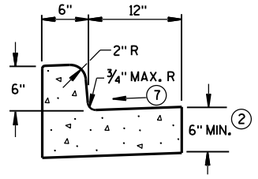


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



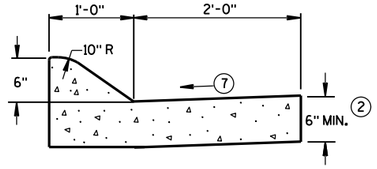
TYPES K (1) & L

CONCRETE CURB & GUTTER 30"

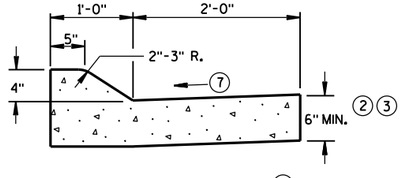


TYPES A (1) & D

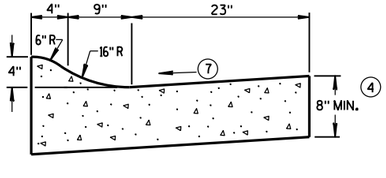
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A (1) & D

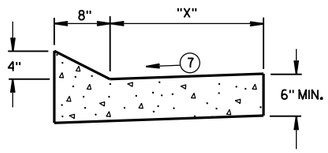


4" SLOPED CURB TYPES A (1) & D



4" SLOPED CURB TYPES R (1) & T (5)

CONCRETE CURB & GUTTER 36"



TYPES TBT & TBTT (1)

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(5) THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

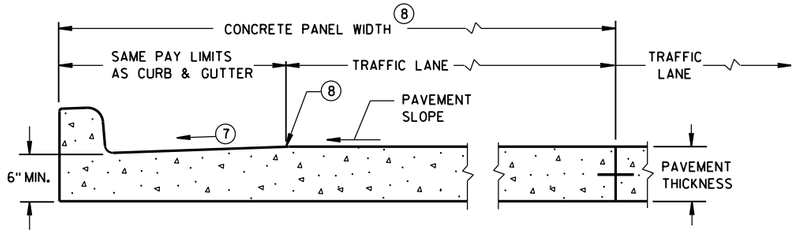
(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

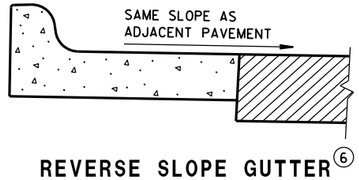
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB & GUTTER

* BIKE LANE IS NOT SHOWN.

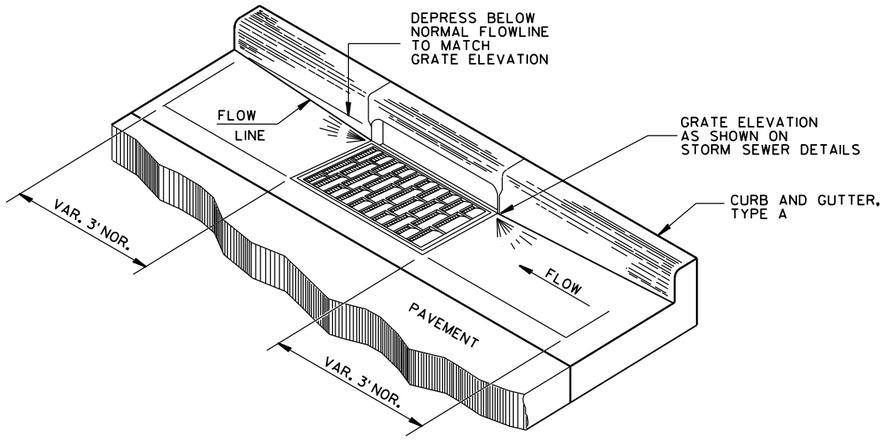


REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

CONCRETE CURB & GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D. 8 D 1-20a



DETAIL OF CURB AND GUTTER AT INLETS

(TYPE H INLET COVER SHOWN)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

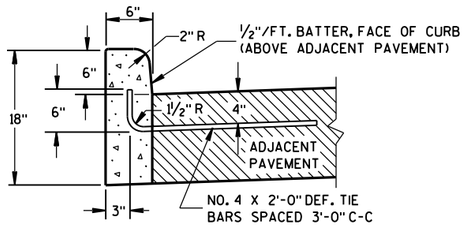
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

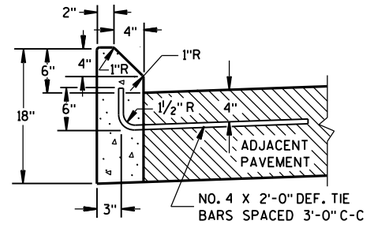
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(9) REFER TO SDD 8D18 AND SDD 8D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

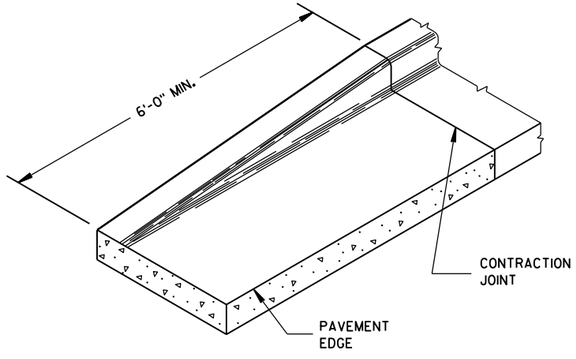


TYPES A(1) & D

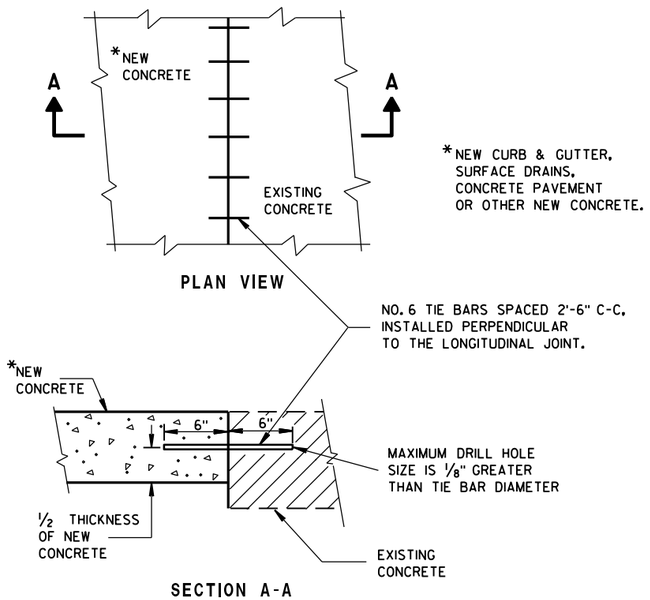


TYPES G(1) & J

CONCRETE CURB



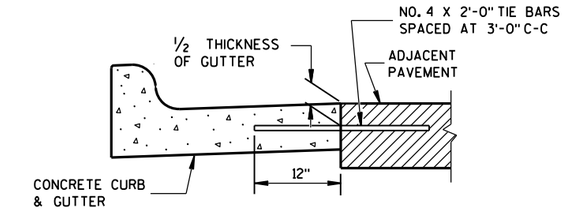
END SECTION CURB & GUTTER



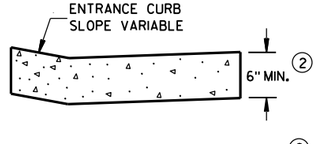
PLAN VIEW

SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

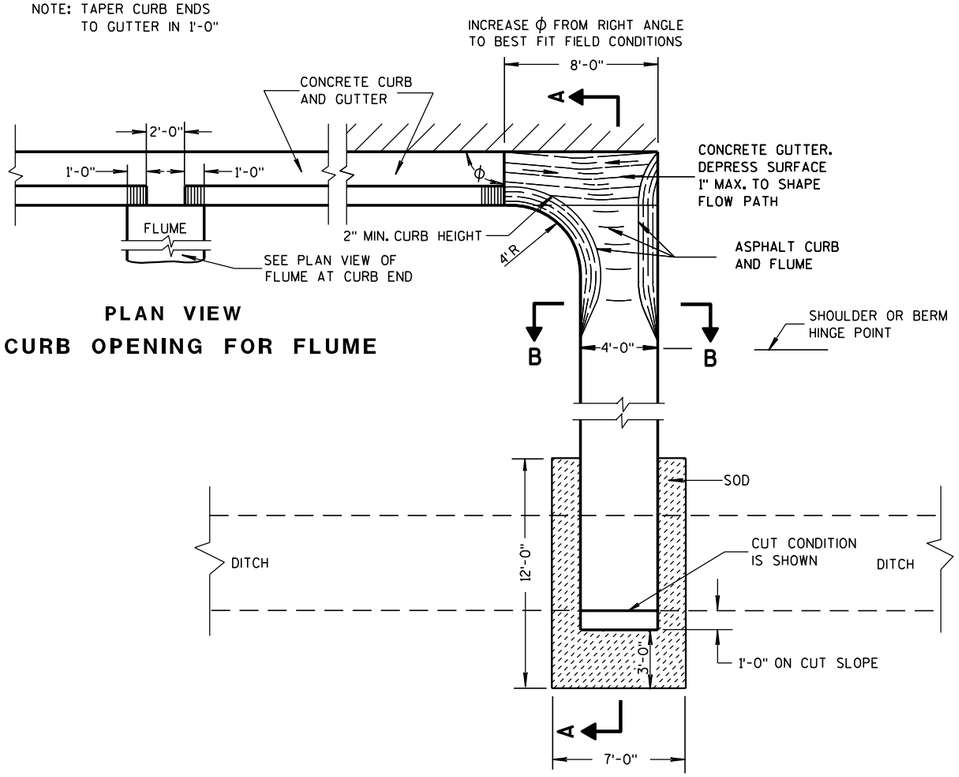
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

6

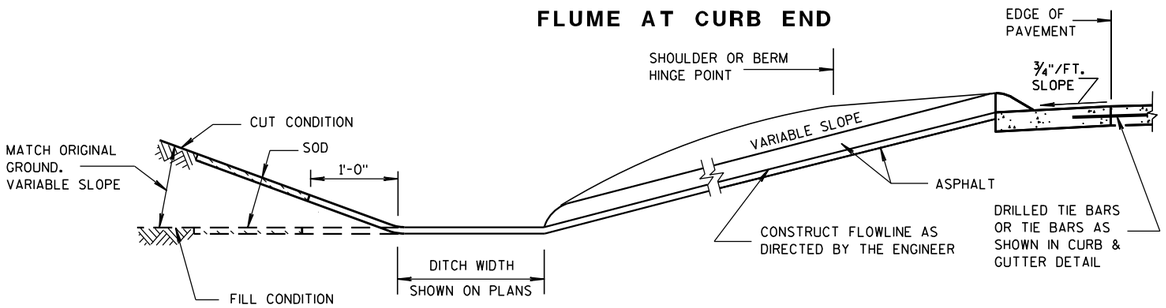
S.D.D. 8 D 1-20b

ASPHALTIC FLUME

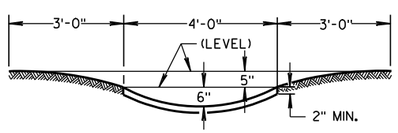


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

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

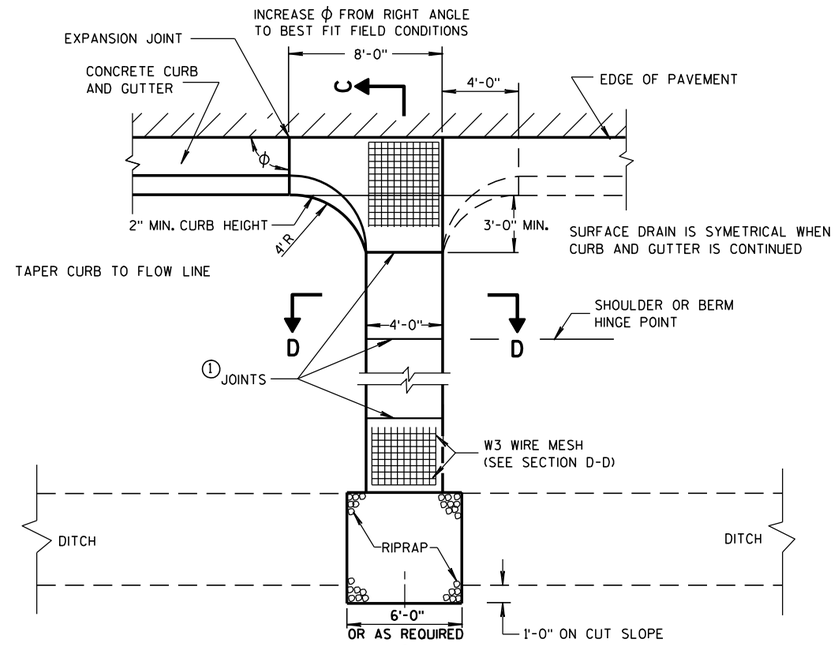
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE ⅛ TO ¼ INCH WIDE BY 1½ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

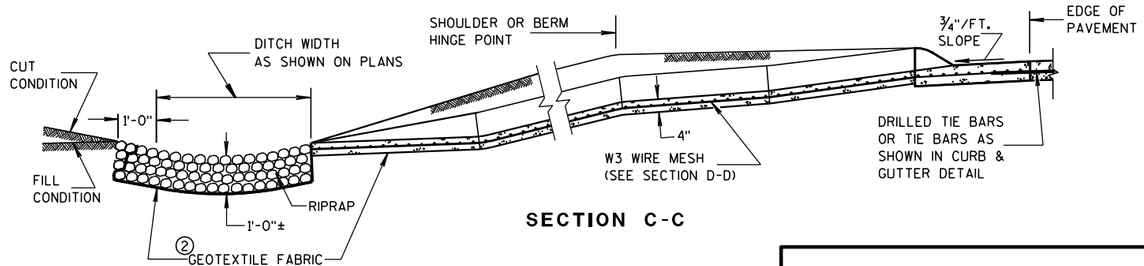
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

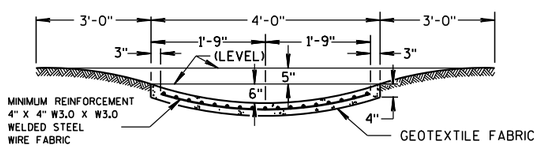
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

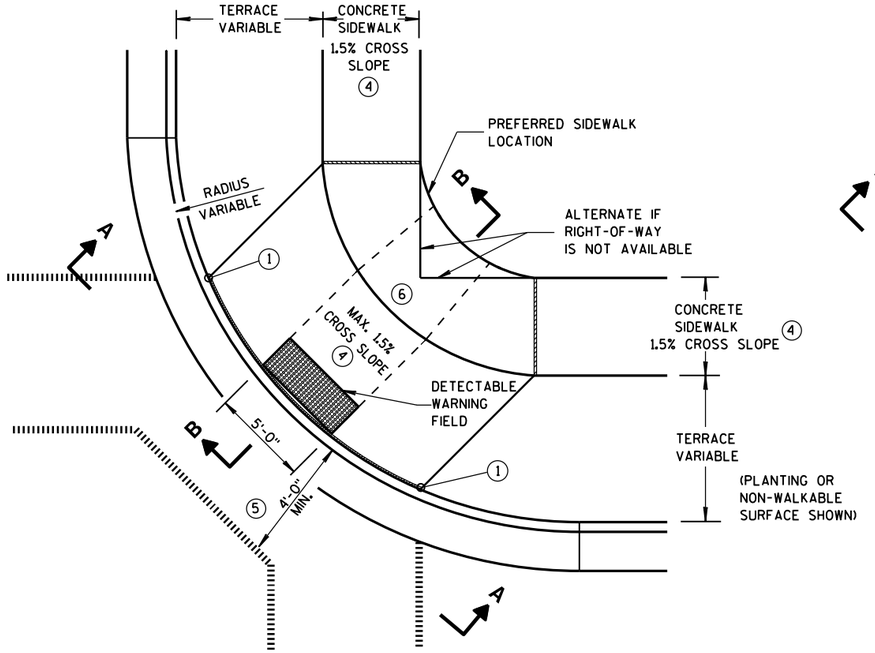
APPROVED
9-4-08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
MENT
FHWA

6

S.D.D. 8 D 4-5

6

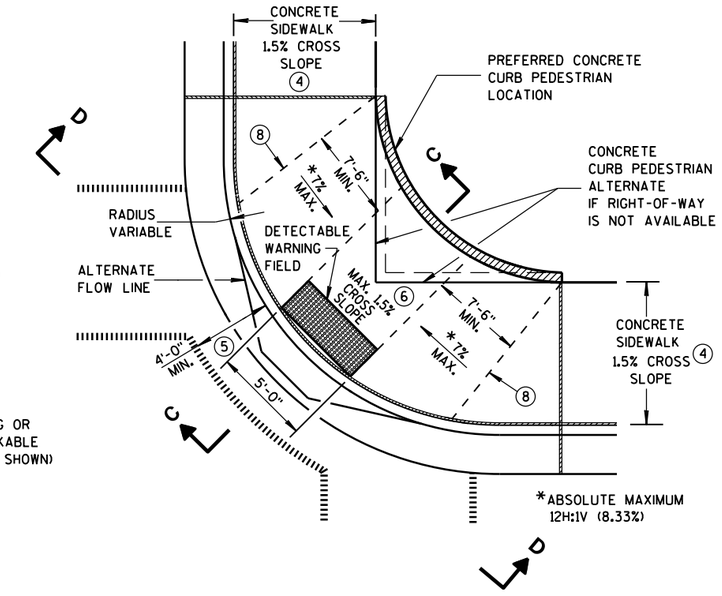
S.D.D. 8 D 4-5



PLAN VIEW

TYPE 1 RAMP

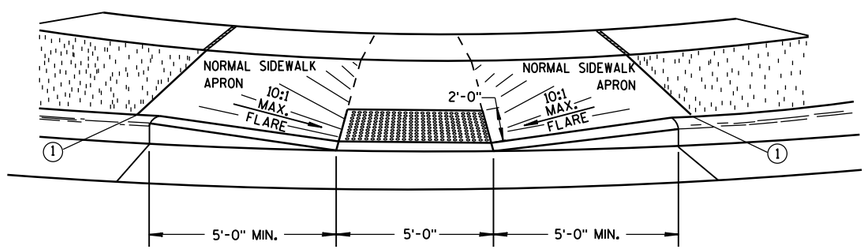
(CENTER OF CORNER RADIUS)



PLAN VIEW

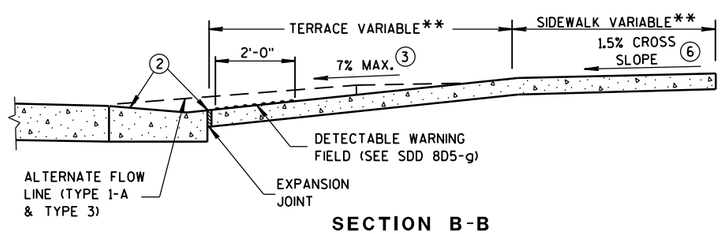
TYPE 1-A RAMP

(NO TERRACE)

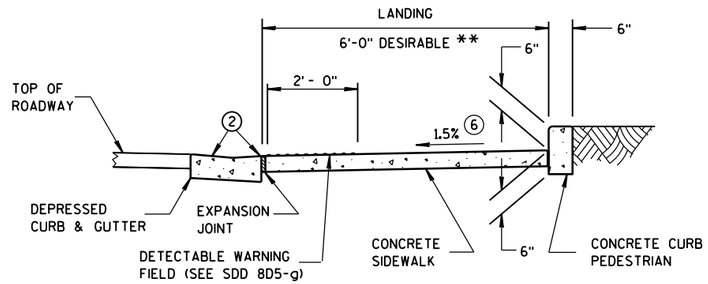


VIEW A-A

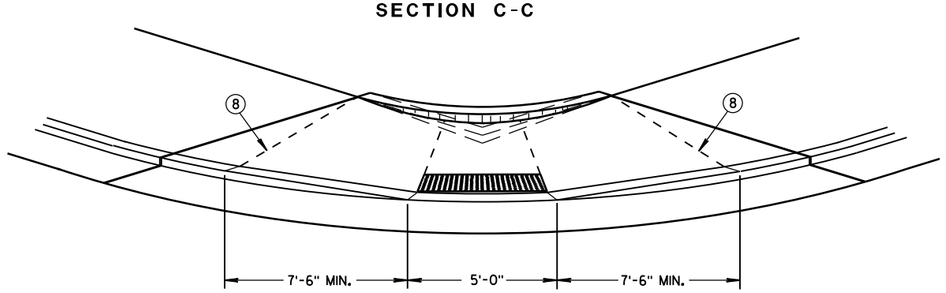
** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B



SECTION C-C



VIEW D-D

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

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

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAL FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS DISTANCE IS SHORT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA. (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

LEGEND

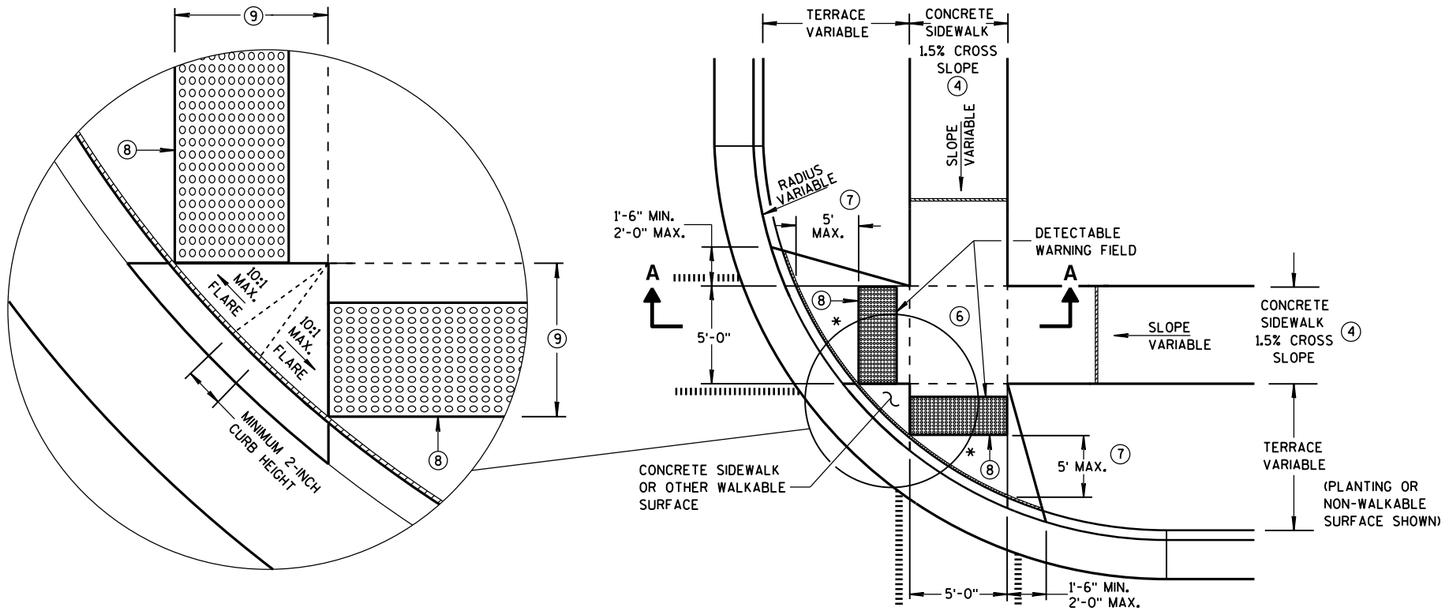
- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT

CURB RAMPS TYPES 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

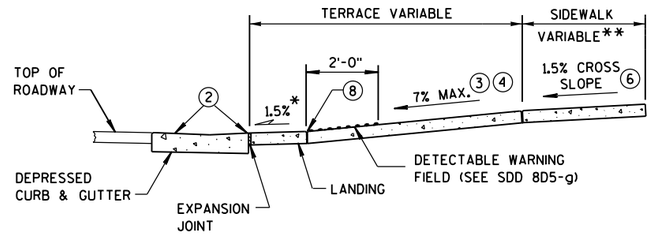
6

S.D.D. 8 D 5-19a



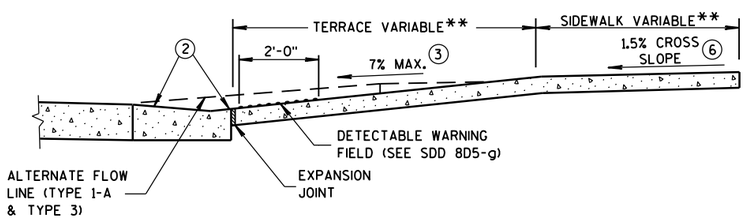
PLAN VIEW
TYPE 2 RAMP
(ON LINE WITH SIDEWALK)

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

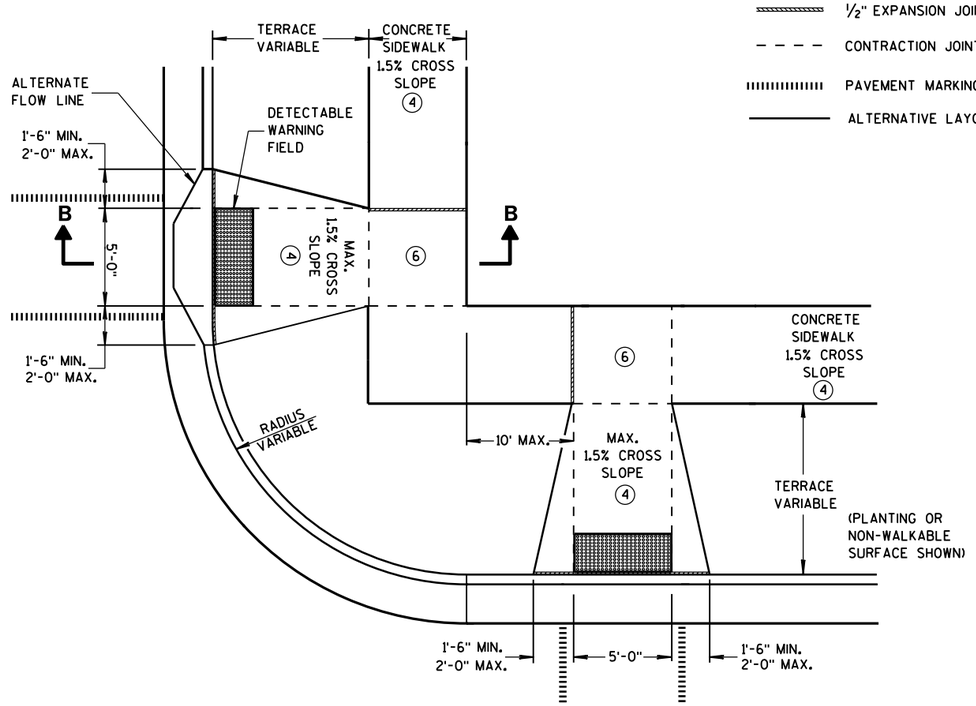


SECTION A-A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B



PLAN VIEW
TYPE 3 RAMP
(OUTSIDE OF CROSSWALK AREA)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(9) WHEN THIS DISTANCE IS LESS THAN 6'-0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.

LEGEND

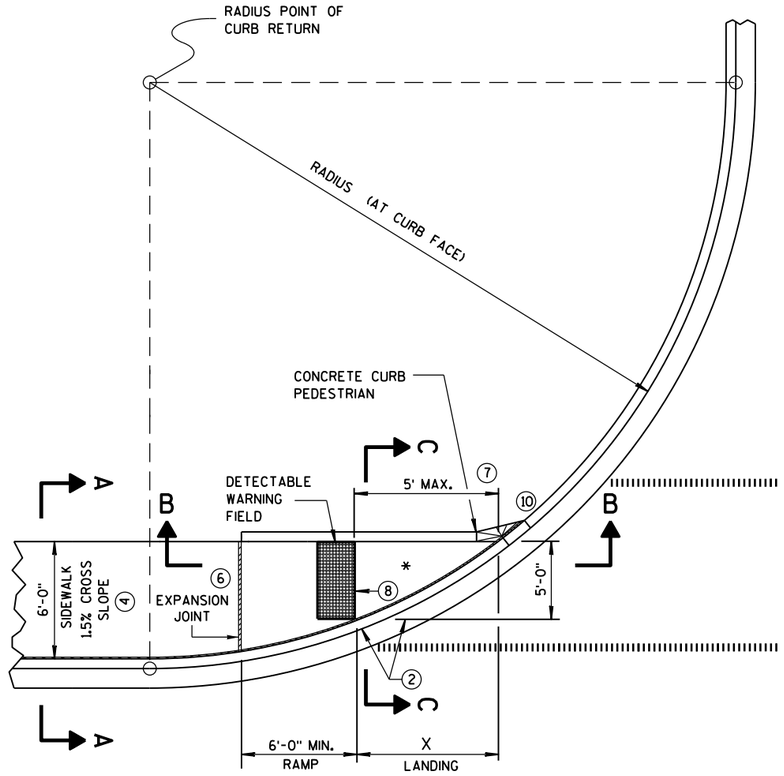
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT

CURB RAMPS TYPES 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

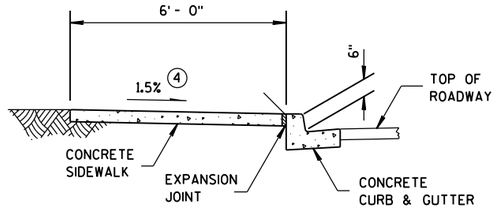
S.D.D. 8 D 5-19b



CURB RAMP TYPE 4A
PLAN VIEW

RADIUS (AT CURB FACE)	X
10 FEET	4'-7"
15 FEET	6'-5½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A-A FOR TYPE 4A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

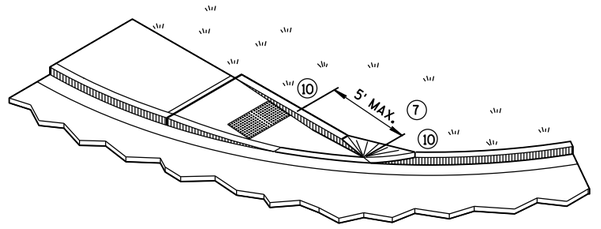
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

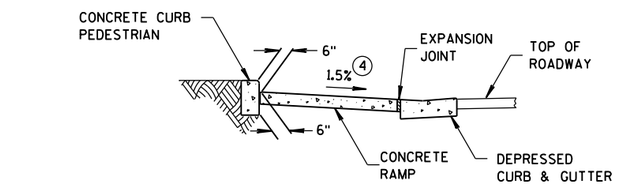
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

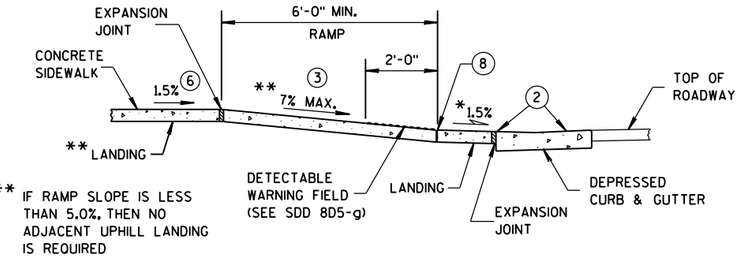


ISOMETRIC VIEW FOR TYPE 4A



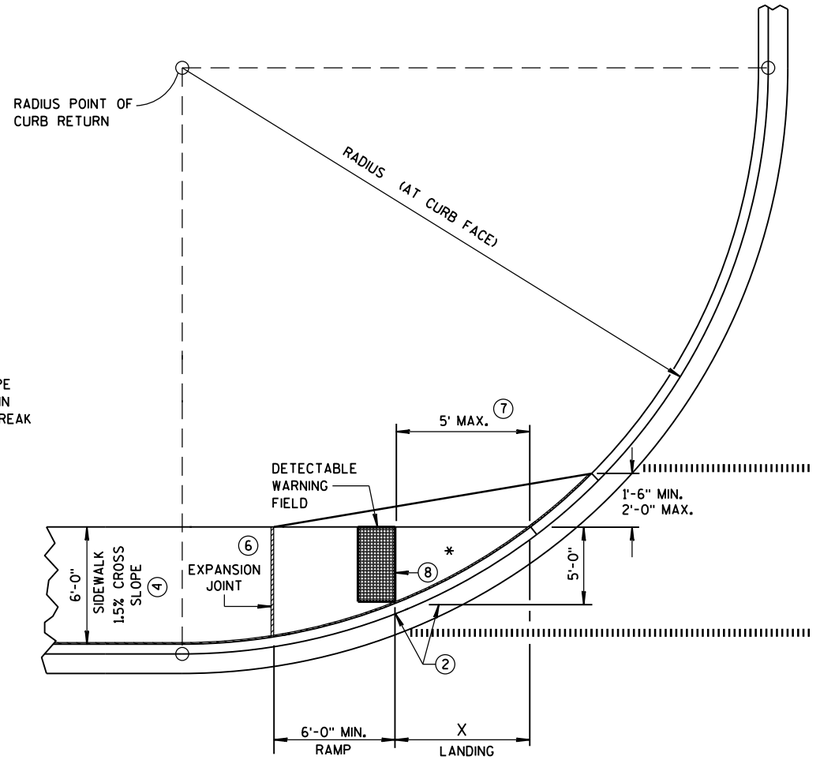
SECTION C-C FOR TYPE 4A

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

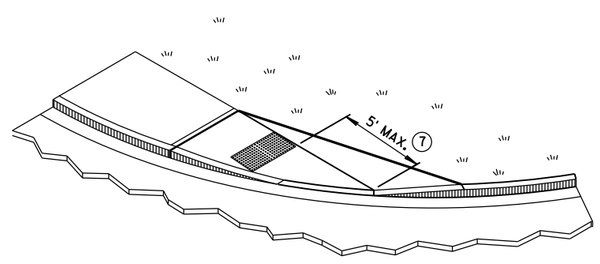


** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

SECTION B-B FOR TYPE 4A



CURB RAMP TYPE 4A1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4A1

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 4A AND 4A1

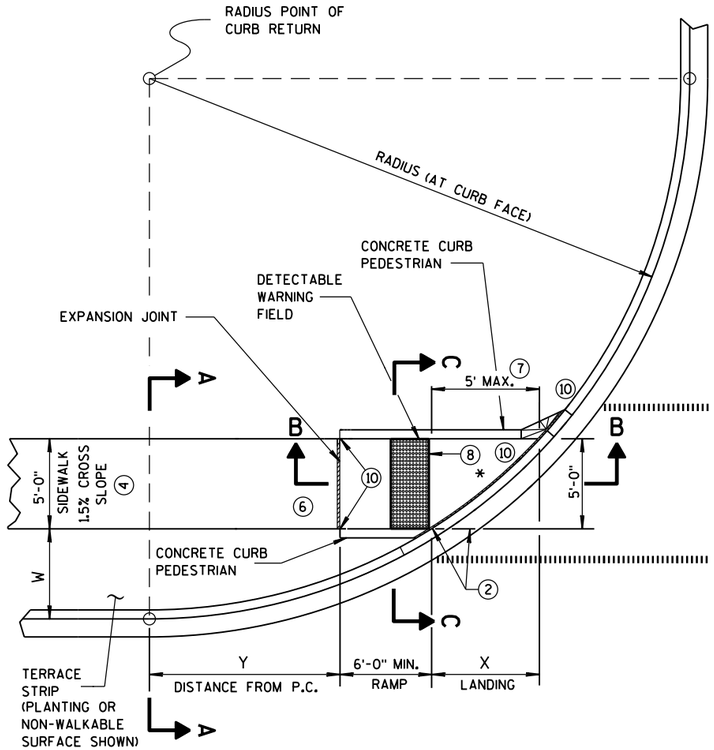
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

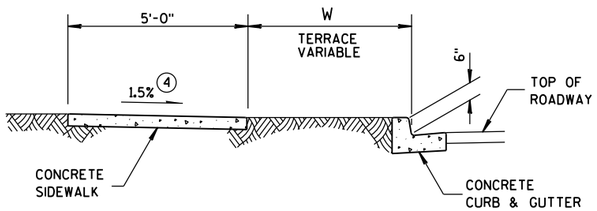
S.D.D. 8 D 5-19c

6

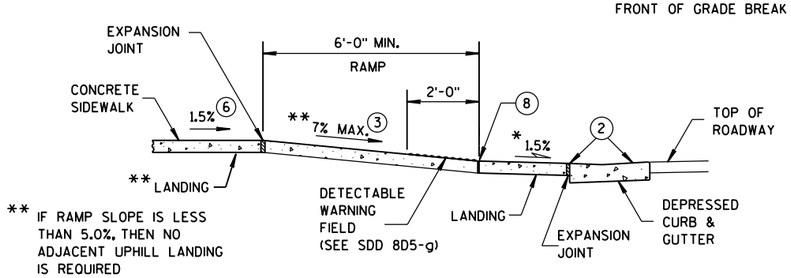
S.D.D. 8 D 5-19c



CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



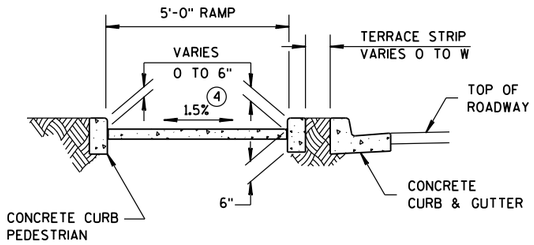
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

SECTION B-B FOR TYPE 4B

RADIUS (AT CURB FACE)	W = 3'-0"		W = 4'-0"		W = 5'-0"		W = 6'-0"		W = 7'-0"		W = 8'-0"		W = 9'-0"		W = 10'-0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2'-10¼"	0'-5"	2'-1"	1'-4½"	1'-5"	2'-1"	0'-10"	2'-7½"	0'-3¼"	3'-0¼"						
15 FEET	4'-6¾"	2'-1¾"	3'-9"	3'-5¼"	3'-1¼"	4'-6"	2'-6¾"	5'-4½"	2'-1"	6'-1"	1'-8"	6'-8½"	1'-3¼"	7'-2½"	0'-10¾"	7'-7¼"
20 FEET	5'-9¾"	3'-6½"	4'-11½"	5'-1¾"	4'-3¼"	6'-5½"	3'-8¾"	7'-7"	3'-3"	8'-6½"	2'-10"	9'-4½"	2'-5½"	10'-1¼"	2'-1¼"	10'-9"
30 FEET			6'-9¼"	7'-11¼"	6'-0¼"	9'-8"	5'-5"	11'-1¾"	4'-10¾"	12'-5¾"	4'-5½"	13'-7¾"	4'-0¾"	14'-8½"	3'-8½"	15'-8¼"
40 FEET									6'-1¾"	15'-8½"	5'-8"	17'-2"	5'-3"	18'-5¾"	4'-10¾"	19'-8¼"
50 FEET															5'-10¼"	23'-2"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH



SECTION C-C FOR TYPE 4B

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

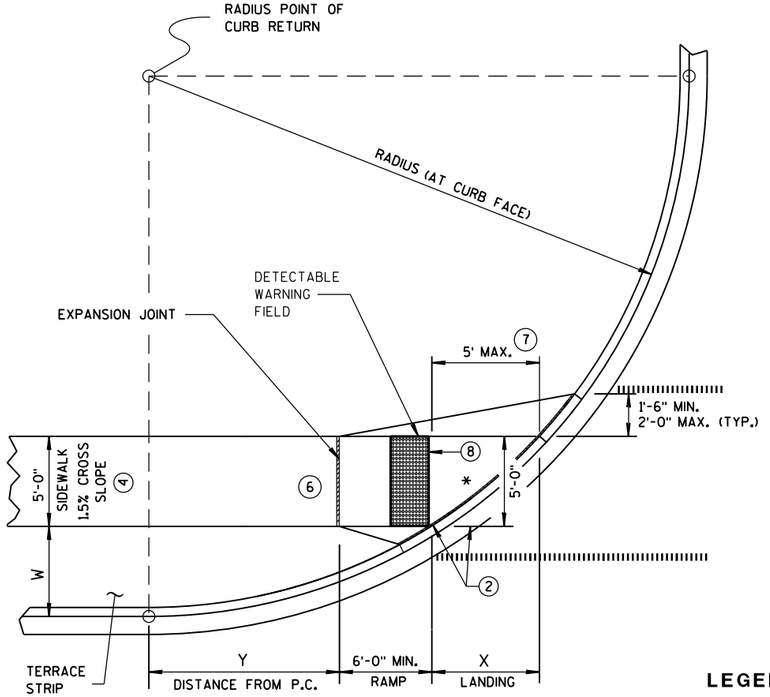
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

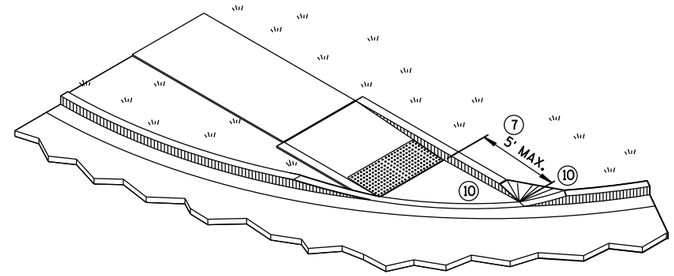
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

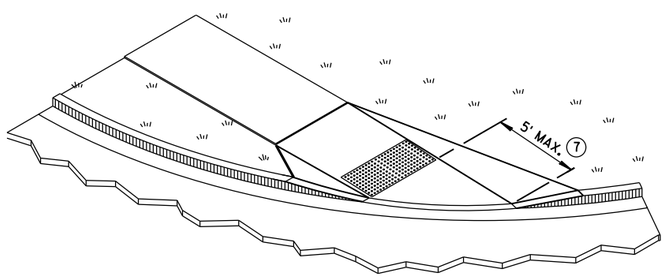
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



CURB RAMP TYPE 4B1
PLAN VIEW



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

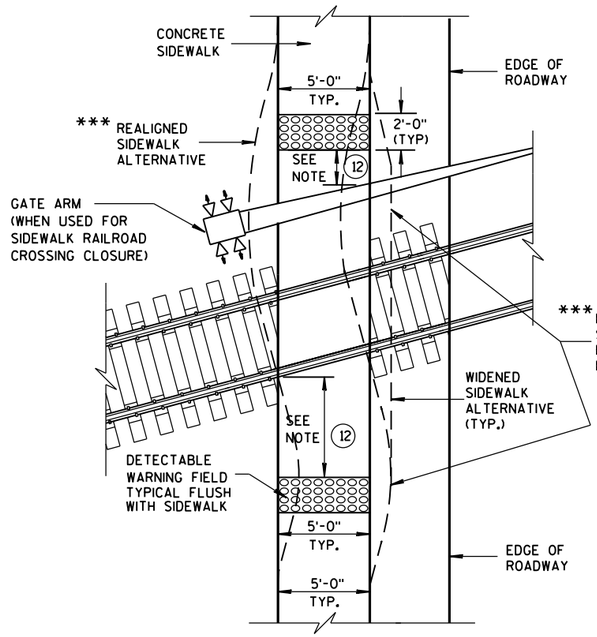
PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

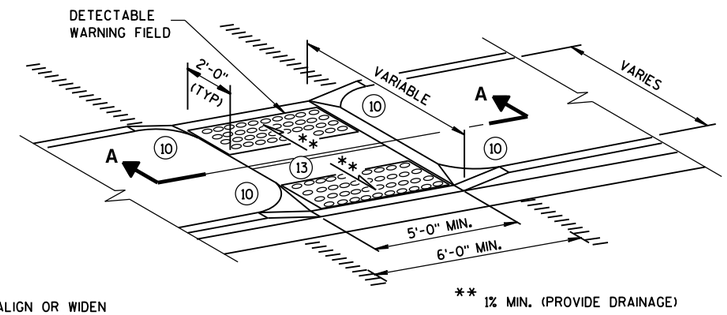
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S.D.D. 8 D 5-19d



TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING

*** DETAILS TO BE DETERMINED BY DESIGNER



** 1% MIN. (PROVIDE DRAINAGE)

MEDIAN ISLAND
NON-ELEVATED PEDESTRIAN CROSSING
TYPE 5

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

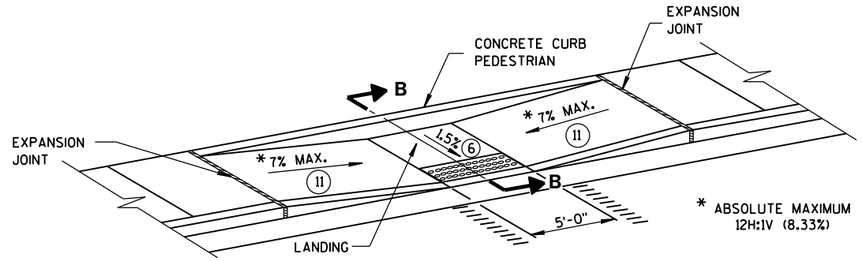
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

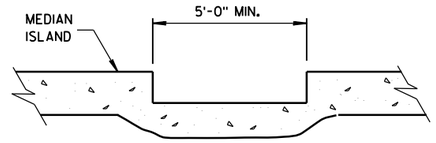
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

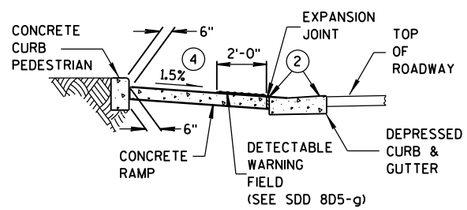
(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STREET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2-FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.



MID-BLOCK CROSSING
TYPE 7A

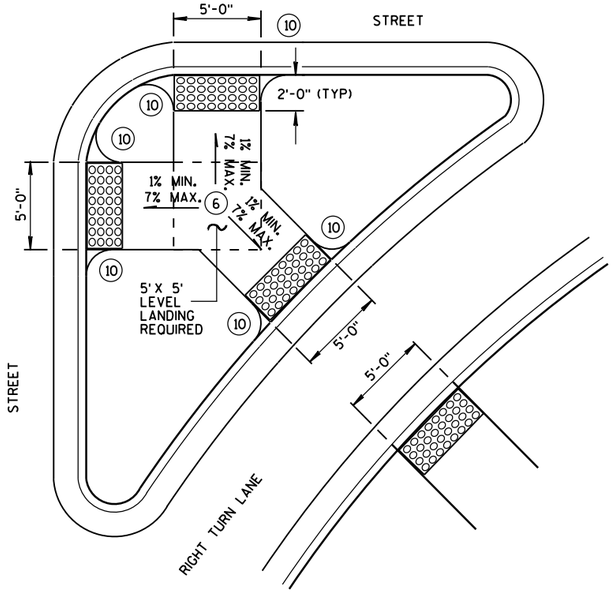


SECTION A-A

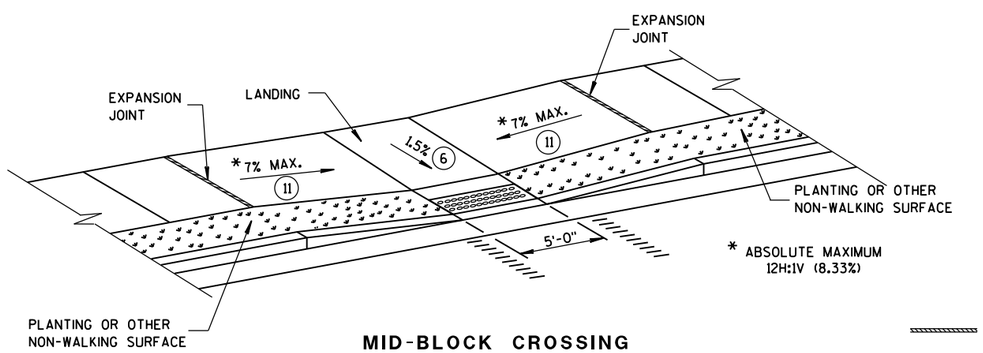


SECTION B-B

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



TYPE 6
DETECTABLE WARNING AT ISLANDS



MID-BLOCK CROSSING
TYPE 7B

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.

LEGEND

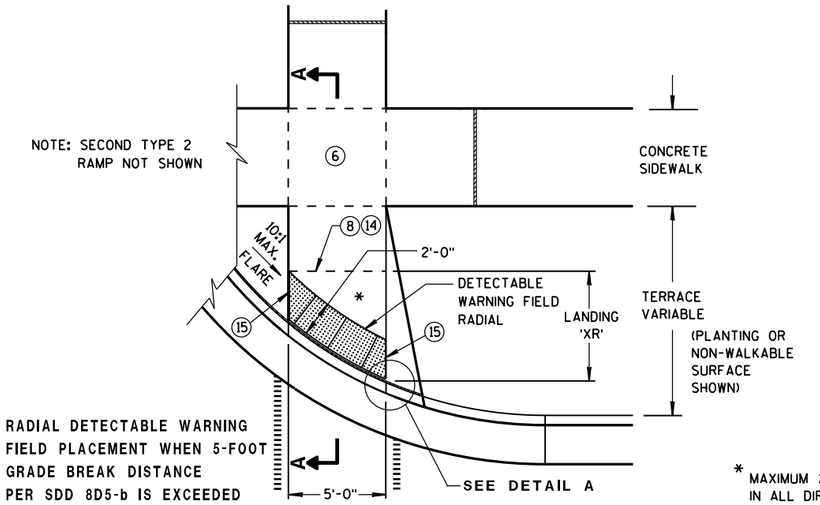
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPES 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

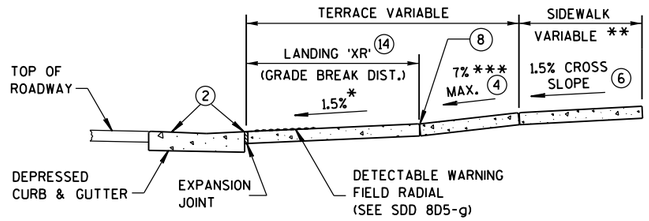
S.D.D. 8 D 5-19e



TYPE 2 RAMP
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK



** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION A-A

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS (DWFs) THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET.

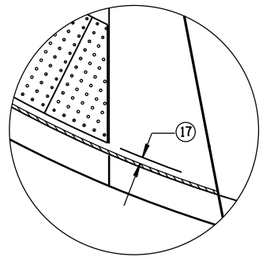
(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION 'XR') REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

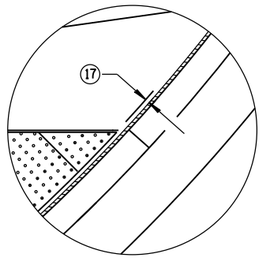
(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1'X 2' RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2'-0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

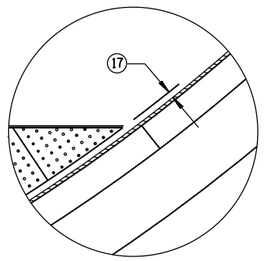
(17) A MAXIMUM 3-INCH CONCRETE BORDER WIDTH IS ALLOWABLE IN FRONT OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.



DETAIL A

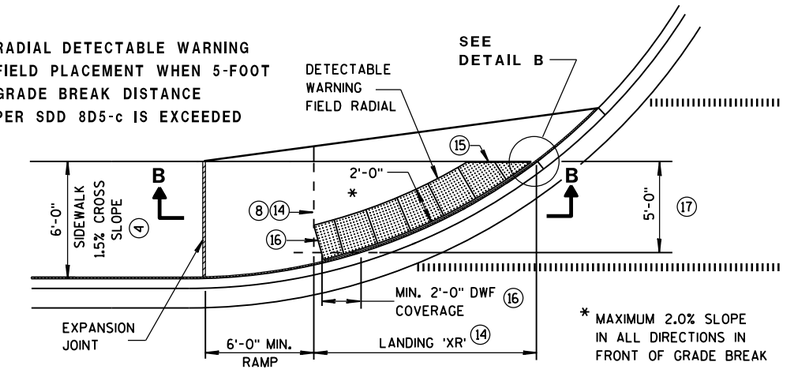


DETAIL C



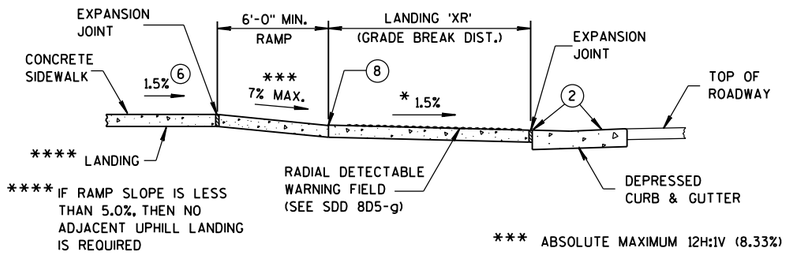
DETAIL B

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5-FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

CURB RAMP TYPE 4A1
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

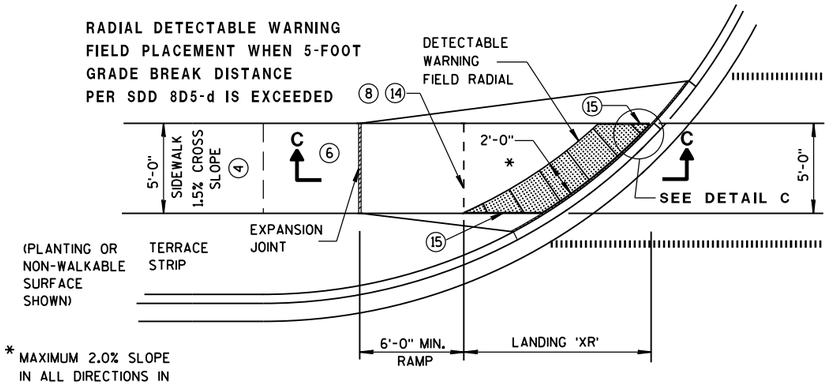


**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

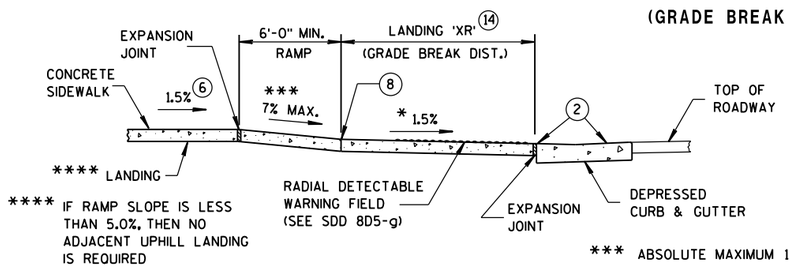
SECTION B-B FOR TYPE 4A1

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5-FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

CURB RAMP TYPE 4B1
PLAN VIEW
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** ABSOLUTE MAXIMUM 12H:1V (8.33%)

SECTION C-C FOR TYPE 4B1

CURB RAMPS
RADIAL DETECTABLE WARNING FIELD APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

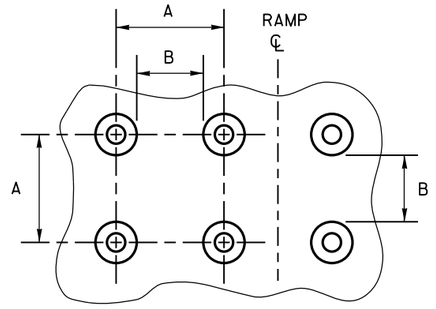
S.D.D. 8 D 5-19f

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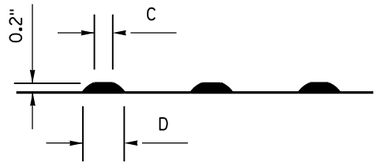
S.D.D. 8 D 5-19f

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.



PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES

DETECTABLE WARNING PATTERN DETAIL

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FIELD ARE PROHIBITED.

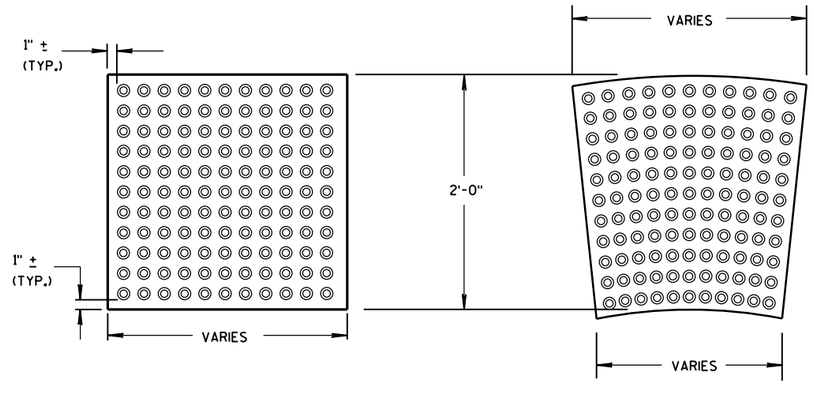
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGES IN COMBINATION WITH SQUARE PANELS ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

⑮ FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN 1/8" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

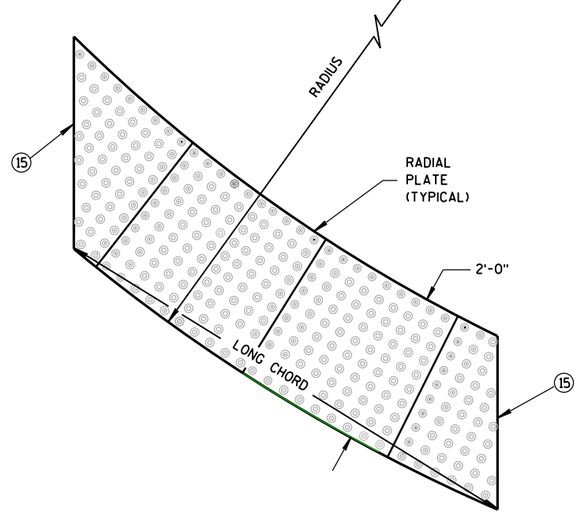


RECTANGULAR PLATES

RADIAL PLATES

DETECTABLE WARNING FIELDS (TYPICAL)

PLAN VIEW



RADIAL DETECTABLE WARNING FIELD ATTRIBUTES

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

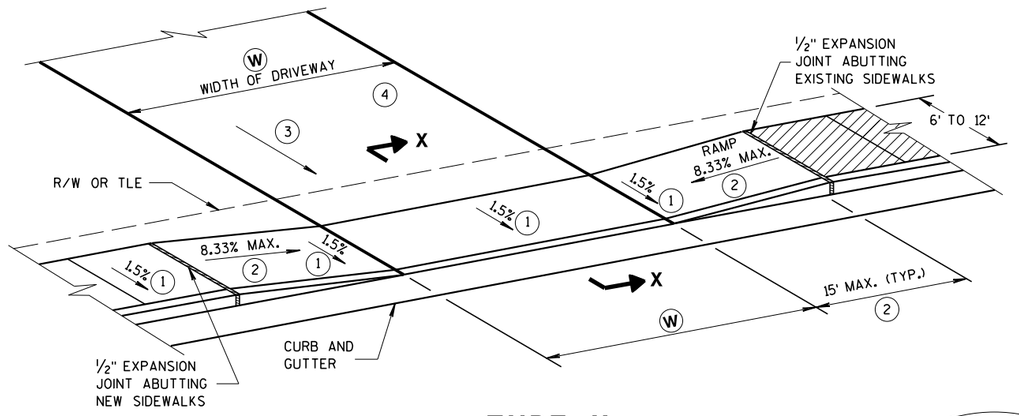
APPROVED
June, 2017 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERV
ENT
FHWA

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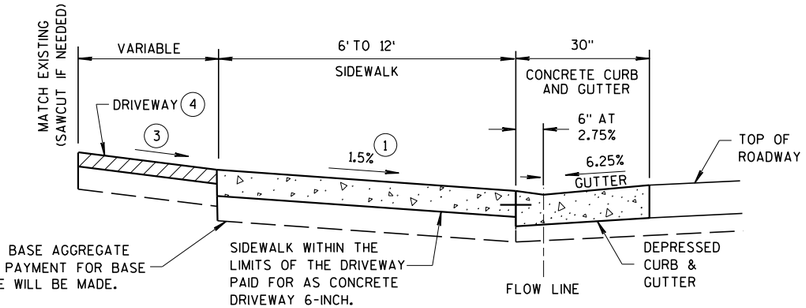
S.D.D. 8 D 5-19g

6

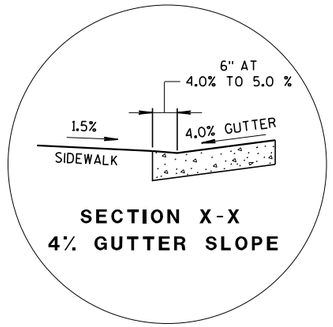
S.D.D. 8 D 5-19g



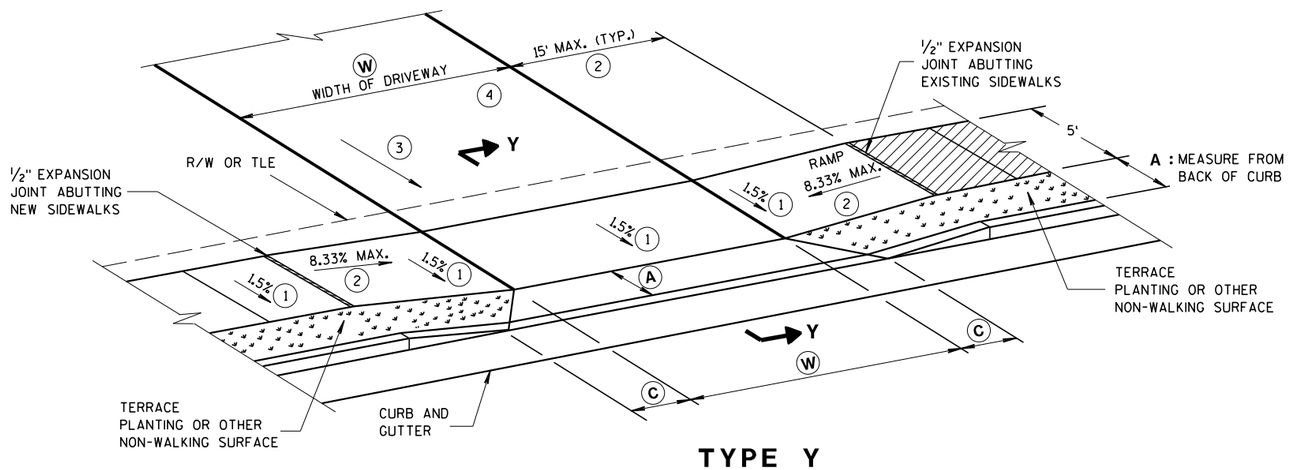
TYPE X
SIDEWALK ABUTS CURB & GUTTER
TERRACE VARIES 0 TO 3 FEET



SECTION X-X



SECTION X-X
4% GUTTER SLOPE



TYPE Y
SIDEWALK WITH NARROWER TERRACE
TERRACE VARIES 4 TO 6 FEET

W: 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)
16' MIN. - 35' MAX. COMMERCIAL (CE)

GENERAL NOTES

PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

(W) IS SHOWN ON PLAN AND PROFILE SHEETS.

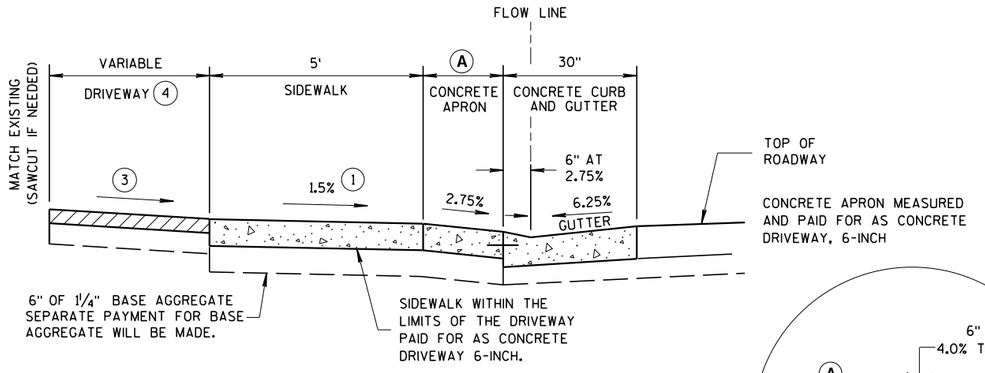
OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

(1) CONSTRUCTION TOLERANCE OF 0.5% ± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

(2) THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY. SLOPE SIDEWALK RAMP TOWARD APRON AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

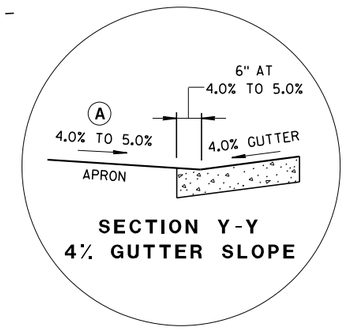
(3) DRIVEWAY SLOPES: DESIRABLE MAXIMUM
- 10.5% UP AWAY FROM SIDEWALK (SAG)
- 8.5% DOWN AWAY FROM SIDEWALK (CREST)
- ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

(4) DRIVEWAY TYPES
- 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
- 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
- 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES)



NOTE: SIDEWALK MAY BE DEPRESSED IN DRIVEWAY AREAS

SECTION Y-Y



SECTION Y-Y
4% GUTTER SLOPE

DRIVEWAY DETAIL
WITH CONCRETE CURB & GUTTER
(URBAN AND SUBURBAN)

TABLE Y

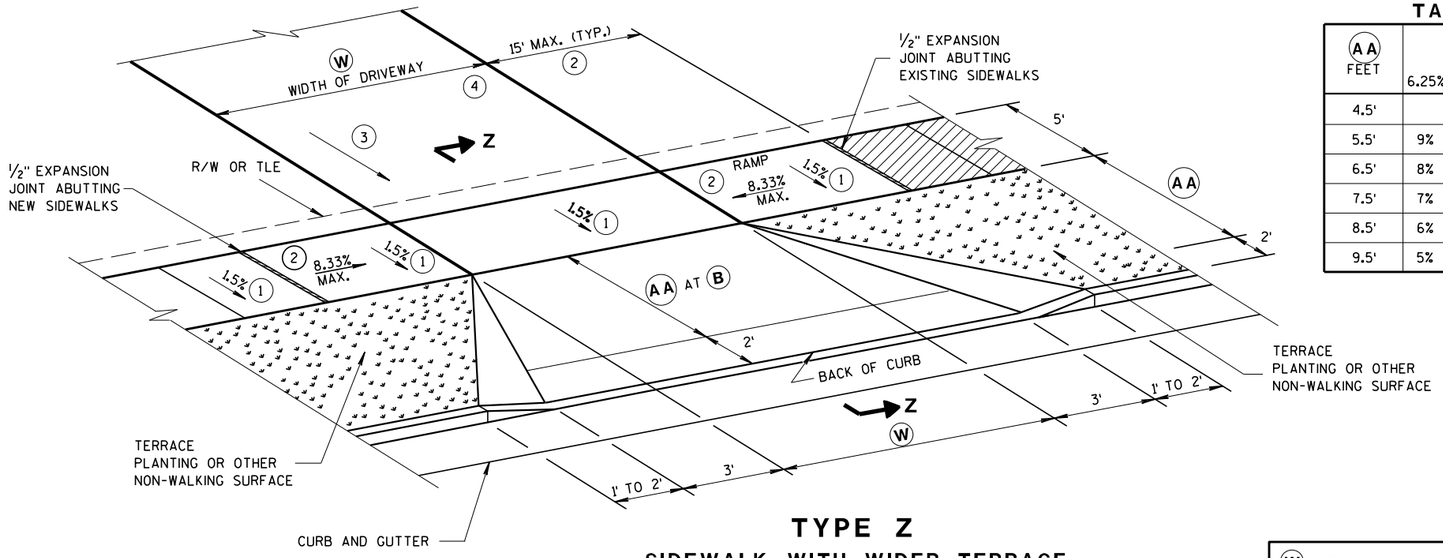
(A) FEET	(C) FEET
3.5'	2.0'
4.5'	3.0'
5.5'	3.5'

NOT TO SCALE

DRIVEWAY AND SIDEWALK RAMPS
TYPES X & Y

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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March 2018 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERVISOR
FHWA



TYPE Z

SIDEWALK WITH WIDER TERRACE

TERRACE VARIES 7 TO 12 FEET

TABLE Z

(AA) FEET	(B) % 6.25% GUTTER	(B) % 4% GUTTER
4.5'	11.5%	9% TO 11.5%
5.5'	9% TO 11.5%	8% TO 11.5%
6.5'	8% TO 11.5%	6% TO 11.5%
7.5'	7% TO 11.5%	6% TO 11.5%
8.5'	6% TO 11.5%	5% TO 11.5%
9.5'	5% TO 11.5%	4% TO 11.5%

(W): 12' MIN. - 24' MAX. RESIDENTIAL AND NON-COMMERCIAL (PE & FE)

16' MIN. - 35' MAX. COMMERCIAL (CE)

GENERAL NOTES

PROVIDE CONSTRUCTION JOINTS ALONG THE CENTER OF THE CONCRETE FOR DRIVEWAYS UNDER 20 FEET IN WIDTH AND AT THE THIRD POINTS OVER 20 FEET IN WIDTH.

(W) IS SHOWN ON PLAN AND PROFILE SHEETS.

OFFSETS, ELEVATIONS, AND PERCENT GRADE ARE SHOWN ON THE CROSS SECTIONS.

(1) CONSTRUCTION TOLERANCE OF 0.5% ± FOR SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

(2) THE SIDEWALK RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH, THE RUNNING SLOPE OF THE SIDEWALK SHALL BE AS FLAT AS FEASIBLE AND NOT EXCEED THE LONGITUDINAL GRADE OF THE ROADWAY.

(3) DRIVEWAY SLOPES: DESIRABLE MAXIMUM

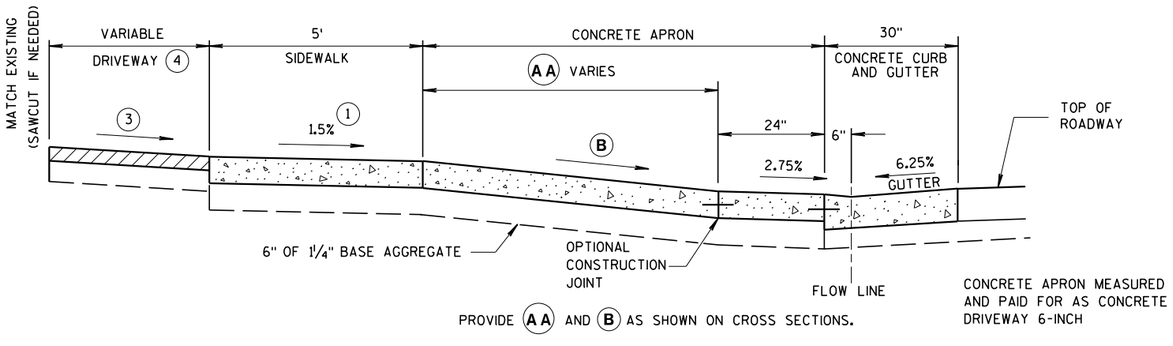
10.5% UP AWAY FROM SIDEWALK (SAG)

8.5% DOWN AWAY FROM SIDEWALK (CREST)

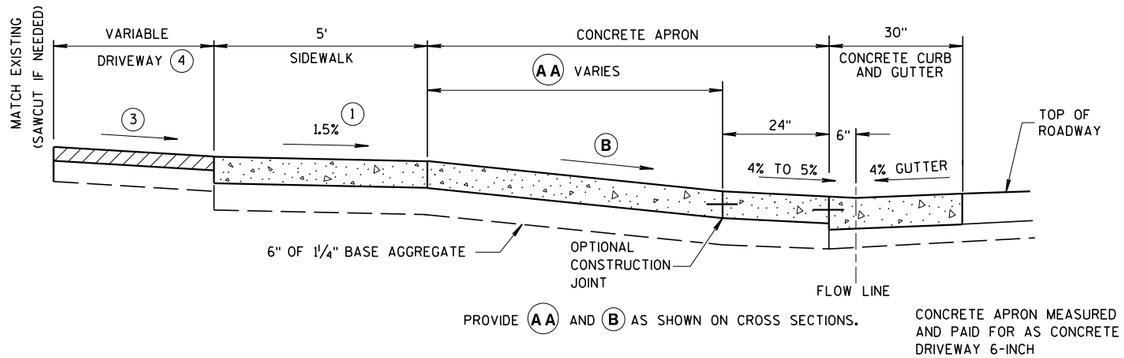
ABSOLUTE MAXIMUM 15% FOR BOTH CREST AND SAG

(4) DRIVEWAY TYPES

- 6-INCH CONCRETE DRIVEWAY PAVEMENT OVER 6-INCH BASE AGGREGATE
- 2-INCH TO 3-INCH ASPHALTIC SURFACE OVER 6-INCH BASE AGGREGATE
- 6-INCH BASE AGGREGATE (MAY BE INCREASED FOR CLAY SUBGRADES)



6.25% GUTTER SLOPE



4% GUTTER SLOPE

NOTE: SIDEWALK MAY BE DEPRESSED IN DRIVEWAY AREAS FOR **B** VALUES NOT SHOWN IN TABLE Z.

SIDEWALK WITHIN THE LIMITS OF THE DRIVEWAY PAID FOR AS CONCRETE DRIVEWAY 6-INCH.

SEPARATE PAYMENT FOR BASE AGGREGATE WILL BE MADE.

SECTION Z-Z

DRIVEWAY DETAIL WITH CONCRETE CURB & GUTTER

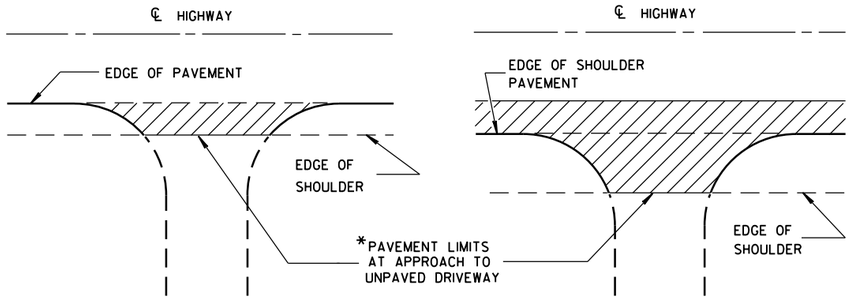
(URBAN AND SUBURBAN)

NOT TO SCALE

DRIVEWAY AND SIDEWALK RAMPS TYPE Z

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

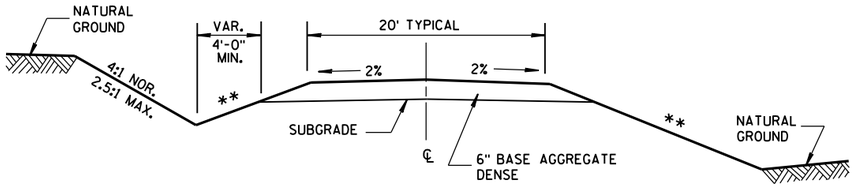


*WHERE DRIVEWAY IS PAVED, APPROACH PAVEMENT SHOULD BE EXTENDED TO MATCH DRIVEWAY PAVEMENT.

PLAN VIEW
(UNPAVED SHOULDER ON HIGHWAY)

PLAN VIEW
(PAVED SHOULDER ON HIGHWAY)

RURAL DRIVEWAY INTERSECTION DETAIL
(NO CURB & GUTTER OR SIDEWALK)

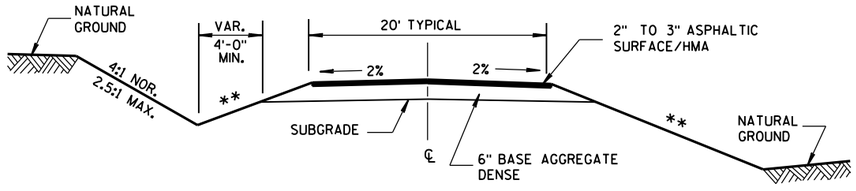


IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE AGGREGATE SURFACE

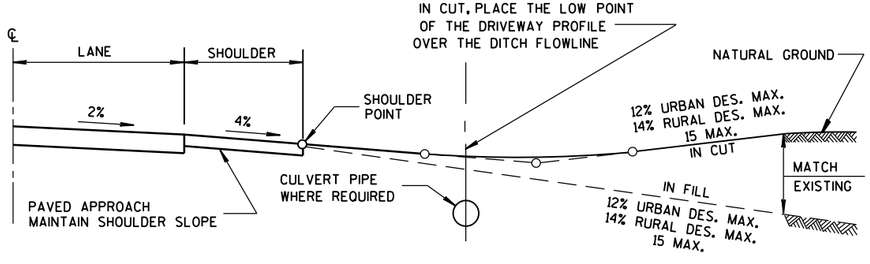
** SLOPE CAN VARY WITH SPEED. SEE 11-45-2.6.2.

POSTED SPEED MPH	MAX. SLOPE
<35	4:1
≥35 TO <60	6:1
≥60	10:1



IN CUT **IN FILL**

TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE



TYPICAL DRIVEWAY PROFILES

DRIVEWAYS WITHOUT CURB & GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

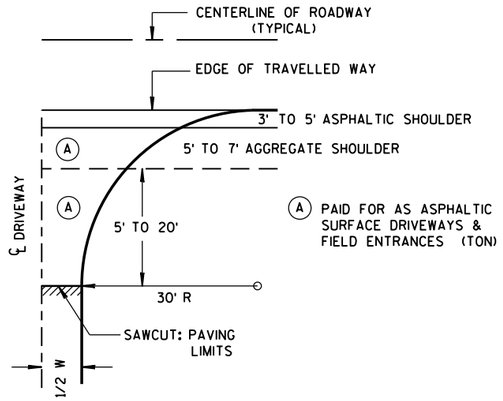
APPROVED
December, 2016 /S/ Rodney Taylor
DATE ROADWAY STANDARDS UNIT SUPERV
FHWA

6

S.D.D. 8 D 21-1

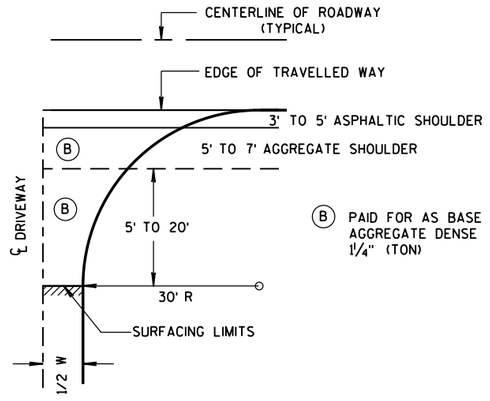
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S.D.D. 8 D 21-1



W MIN. = 16'
W MAX. = 24'

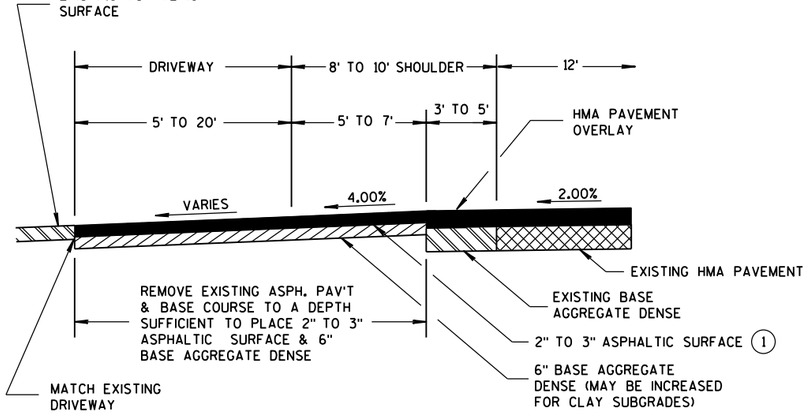
PLAN VIEW
HALF SECTION



PLAN VIEW
HALF SECTION

GENERAL NOTES

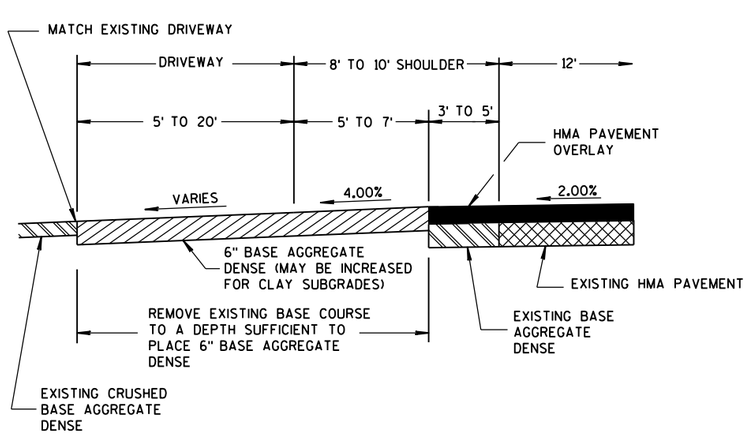
(1) DESIGN WILL DETERMINE FINAL DRIVEWAY ASPHALTIC THICKNESS BASED ON TYPE OF USAGE AND LOADINGS.



PROFILE VIEW

RURAL ENTRANCE WITH ASPHALTIC SURFACE

RESURFACING PROJECTS



PROFILE VIEW

RURAL ENTRANCE WITH AGGREGATE SURFACE

6" BASE AGGREGATE DENSE
RESURFACING PROJECTS

DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

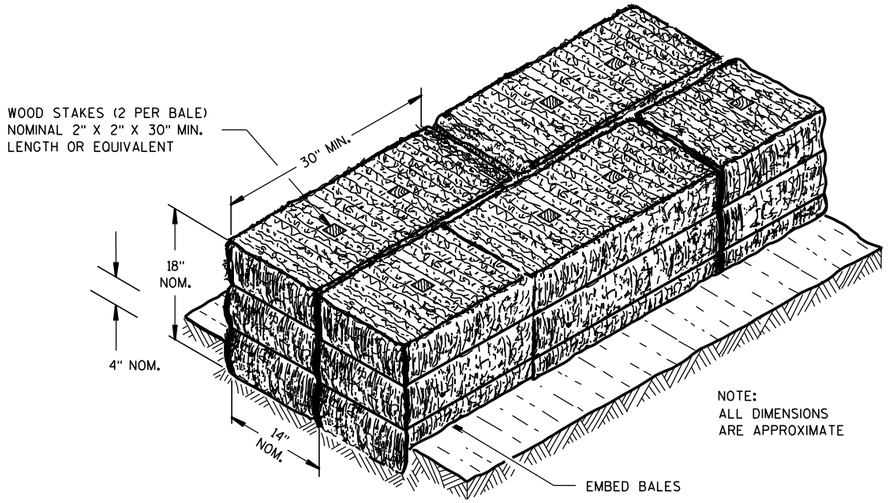
APPROVED
December, 2016 — DATE
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ENT
FHWA

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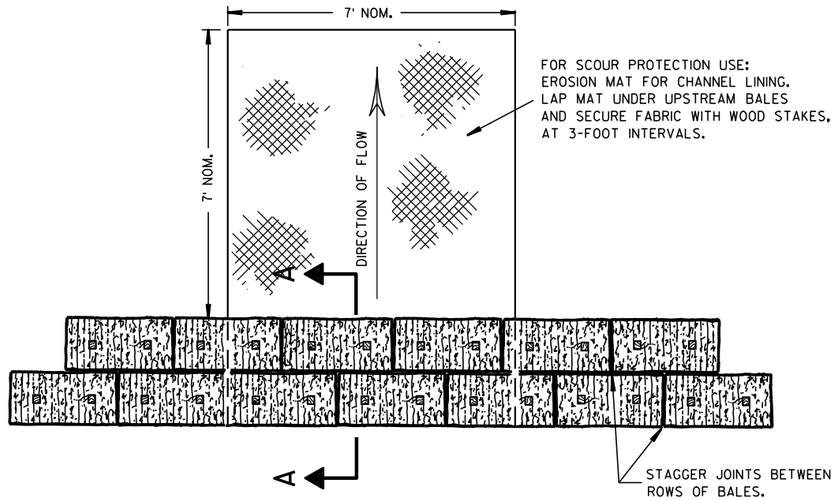
S.D.D. 8 D 22-1

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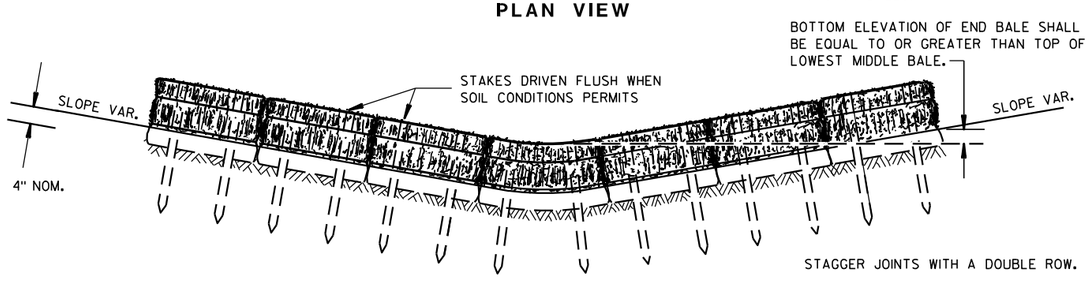
S.D.D. 8 D 22-1



SECTION A-A



PLAN VIEW



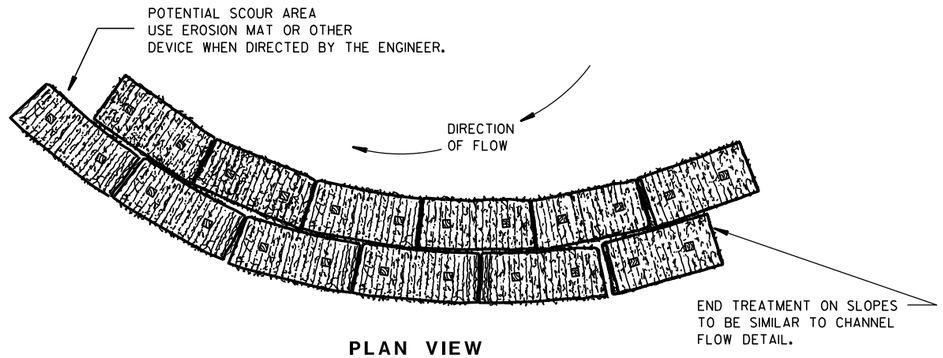
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

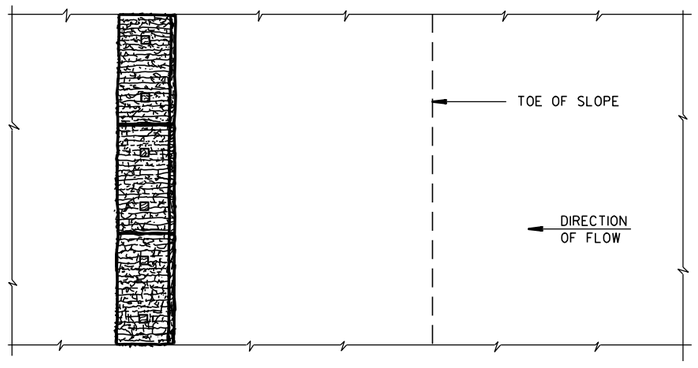
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

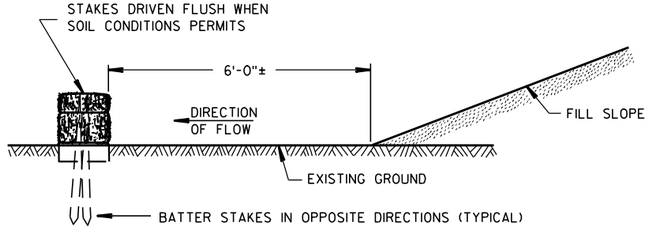


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

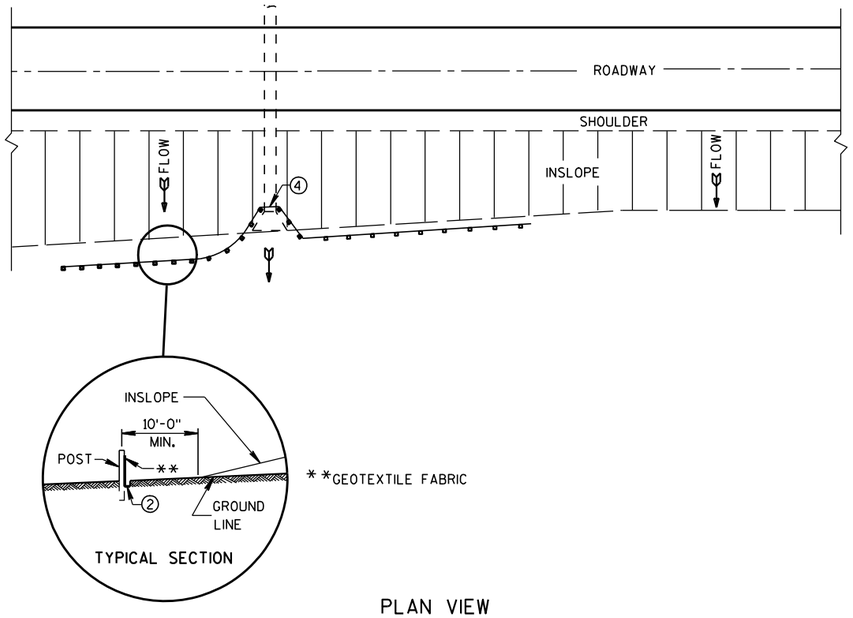
FHWA

6

S.D.D. 8 E 8-3

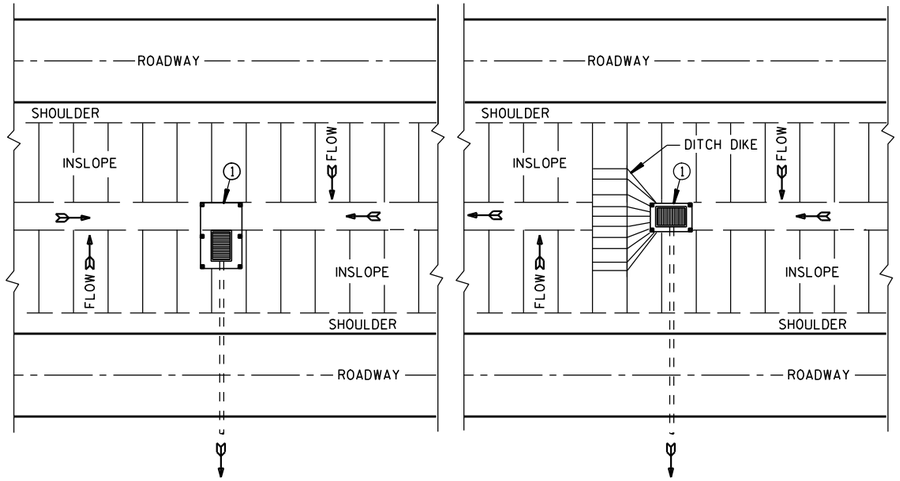
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S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

GENERAL NOTES

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

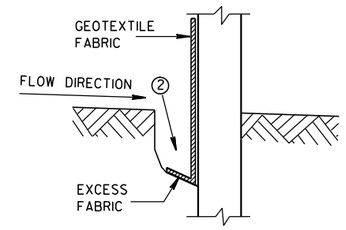
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.

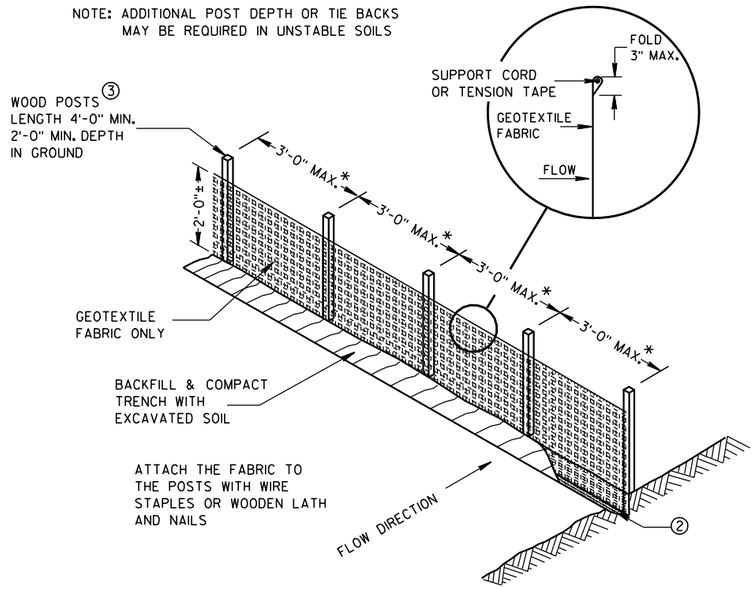
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.

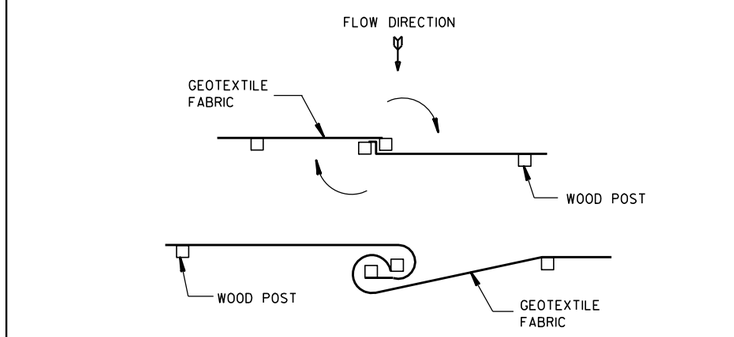
⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



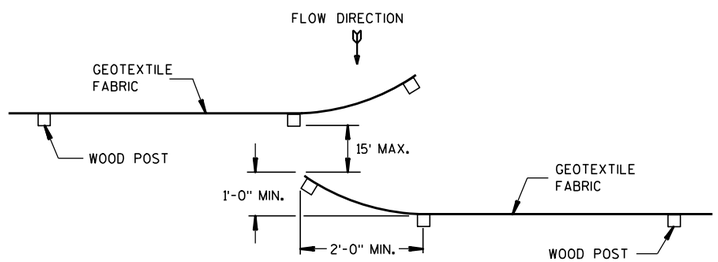
TRENCH DETAIL



SILT FENCE

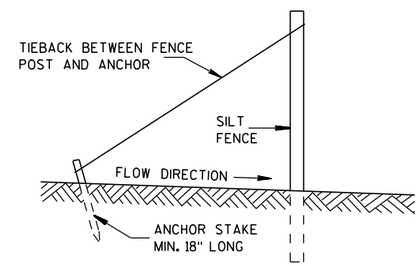


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE ⑤



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

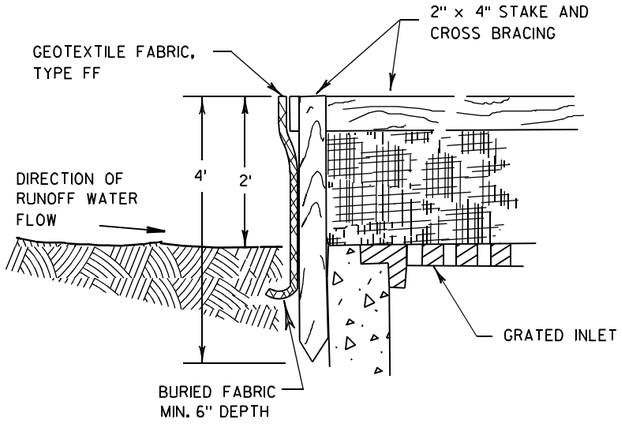
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

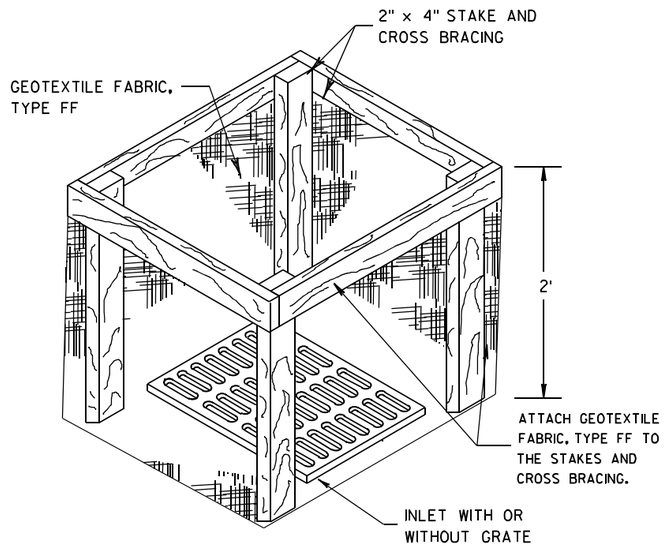
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S.D.D. 8 E 9-6

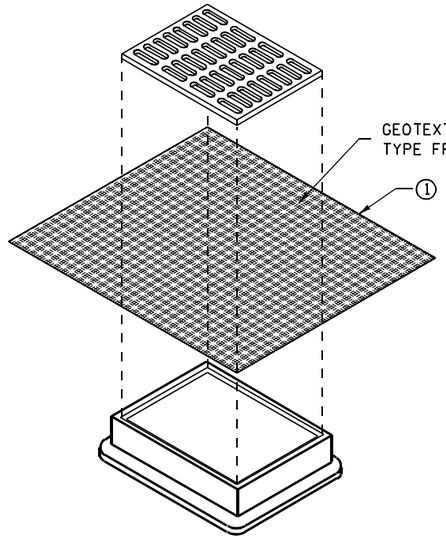
6

S.D.D. 8 E 9-6



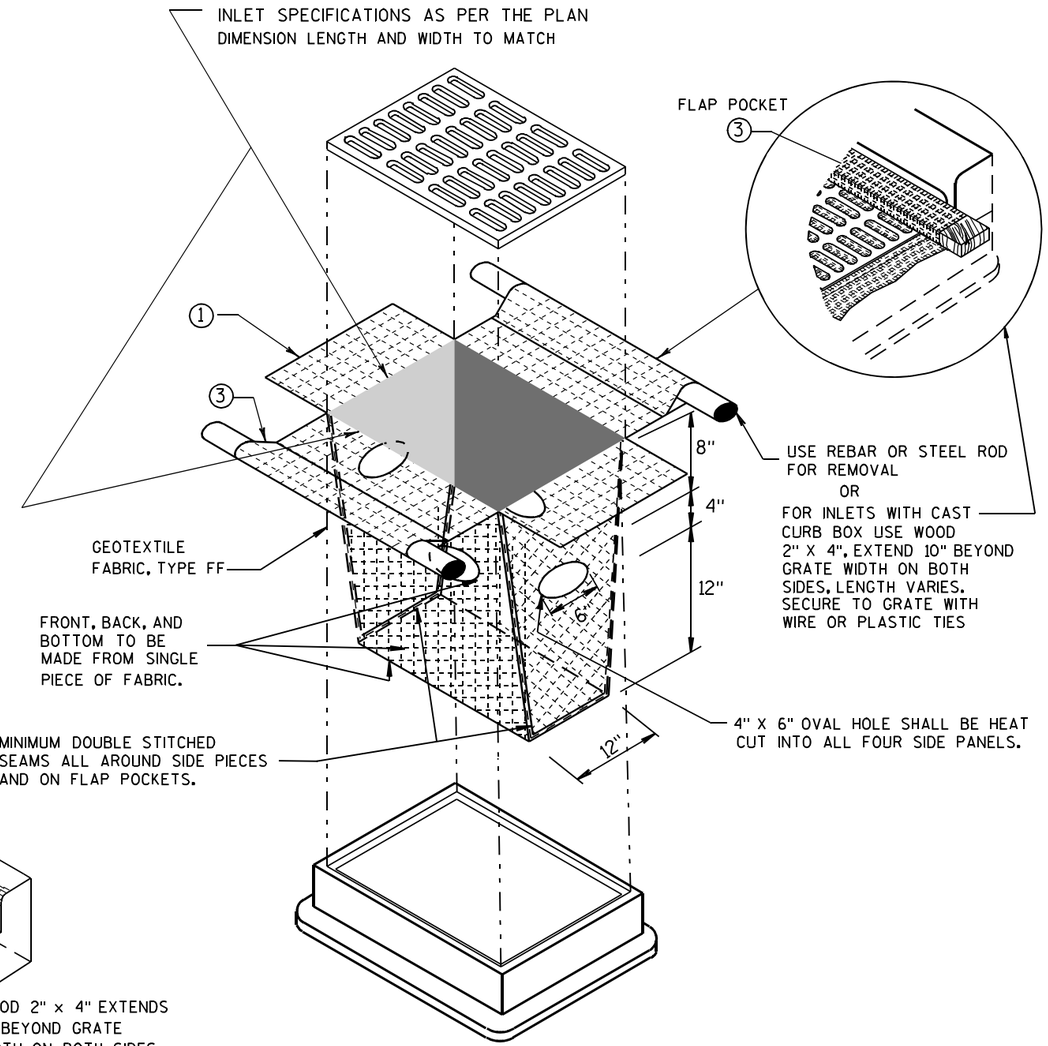


INLET PROTECTION, TYPE A



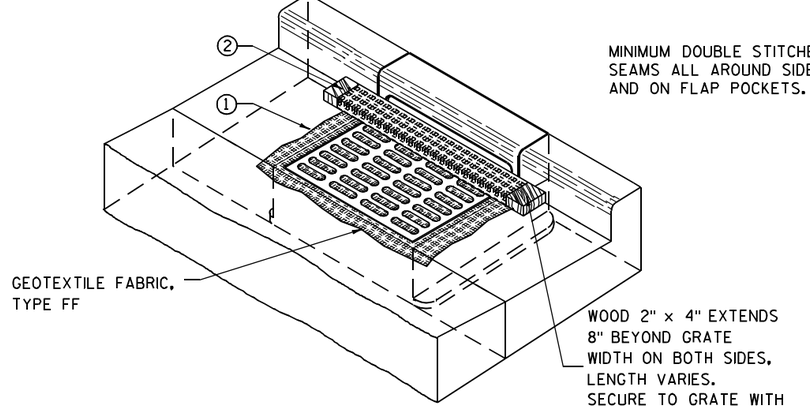
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)



INLET PROTECTION, TYPE C (WITH CURB BOX)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6
S.D.D. 8 E 10-2

METAL APRON ENDWALLS

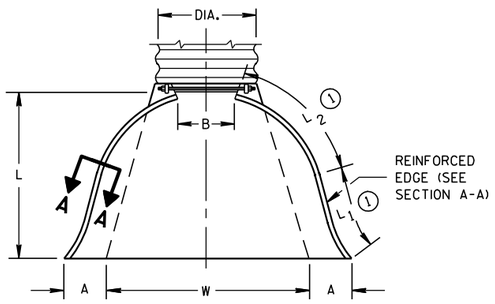
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

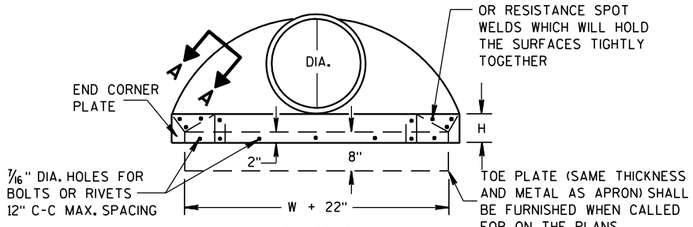
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

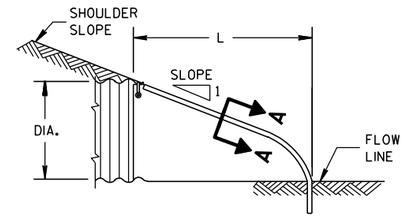
*MINIMUM
**MAXIMUM



PLAN VIEW

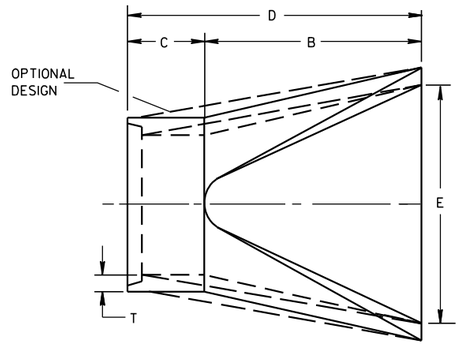


END VIEW

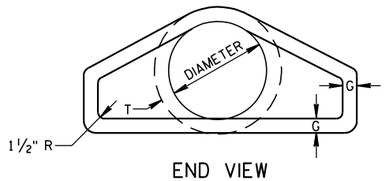


SIDE ELEVATION

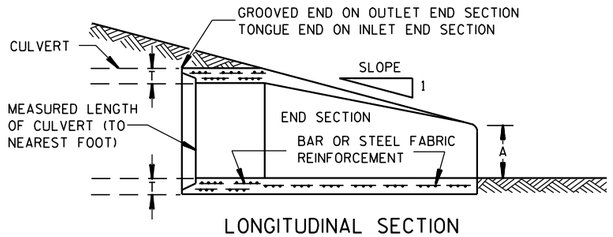
METAL ENDWALLS



PLAN

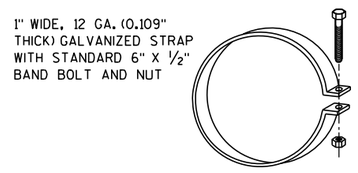


END VIEW



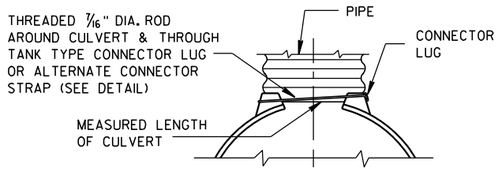
LONGITUDINAL SECTION

CONCRETE ENDWALLS

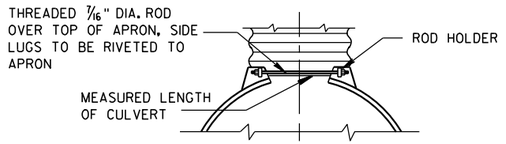


ALTERNATE FOR TYPE 1 CONNECTION

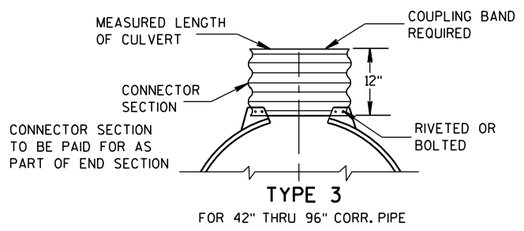
END SECTION CONNECTOR STRAP



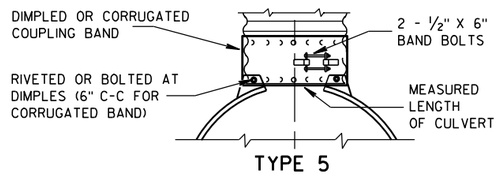
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

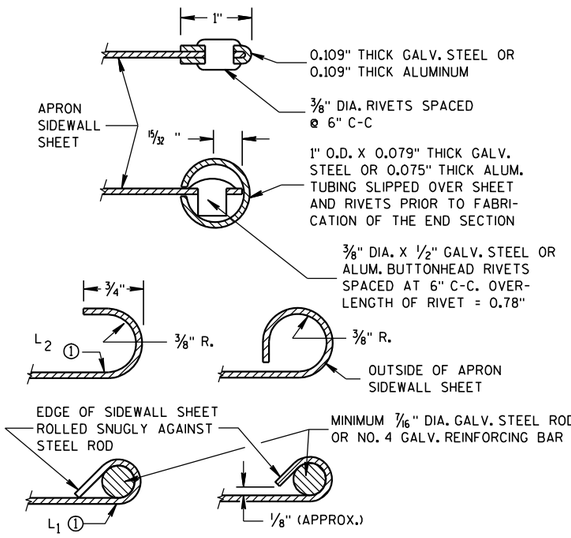
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

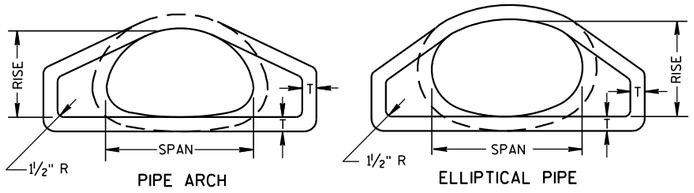
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

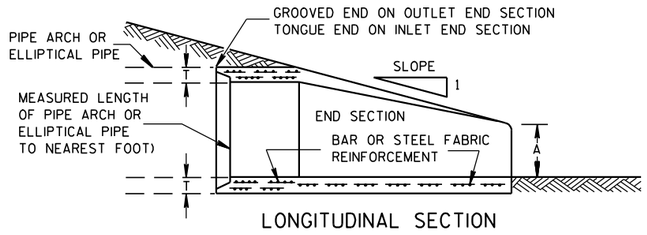
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

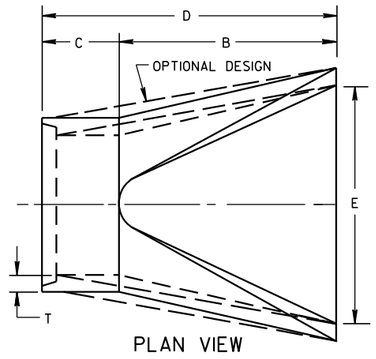
6
S.D.D. 8 F 1-11



END VIEW

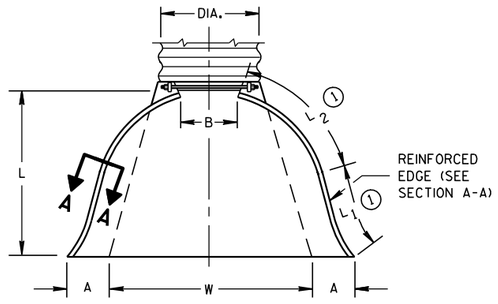


LONGITUDINAL SECTION

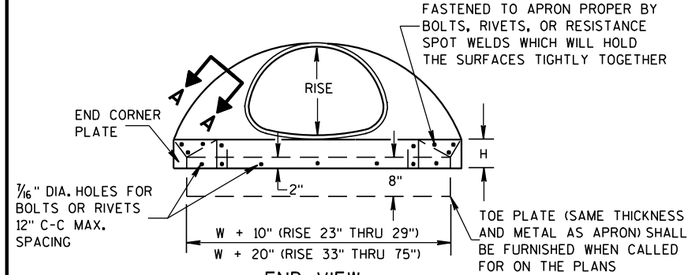


PLAN VIEW

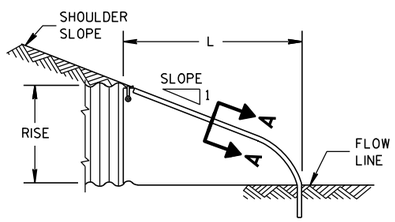
CONCRETE ENDWALLS



PLAN VIEW

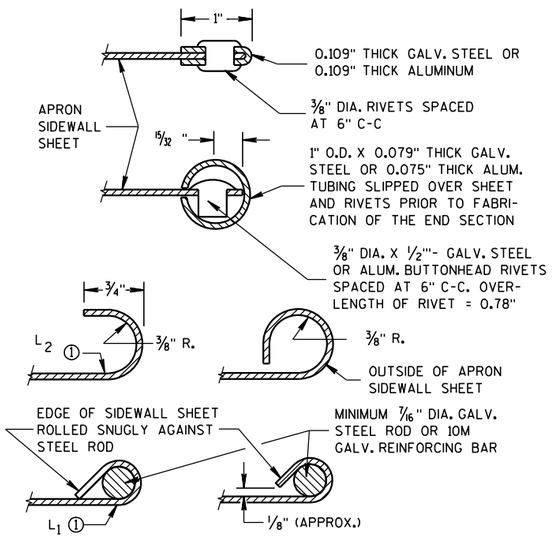


END VIEW



SIDE ELEVATION

METAL ENDWALLS



SECTION A-A

2- 2/3" X 1/2" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
15	17	13	.064	.060	7	9	6	19	14	16	30	2½ to 1	1 Pc.
18	21	15	.064	.060	7	10	6	23	14	19 3/8	36	2½ to 1	1 Pc.
21	24	18	.064	.060	8	12	6	28	18	21¾	42	2½ to 1	1 Pc.
24	28	20	.064	.060	9	14	6	32	18	27½	48	2½ to 1	1 Pc.
30	35	24	.079	.075	10	16	6	39	18	37 5/8	60	2½ to 1	1 Pc.
36	42	29	.079	.075	12	18	8	46	24	45 3/8	75	2½ to 1	1 Pc.
42	49	33	.109	.105	13	21	9	53	24	54¾	85	2½ to 1	2 Pc.
48	57	38	.109	.105	18	26	12	63	24	68	90	2½ to 1	3 Pc.
54	64	43	.109	.105	18	30	12	70	24	72¾	102	2¼ to 1	3 Pc.
60	71	47	.109*	.105*	18	33	12	77	30	82¼	114	2¼ to 1	3 Pc.
66	77	52	.109*	.105*	18	36	12	77	—	—	126	2 to 1	3 Pc.
72	83	57	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.

3" X 1" CORRUGATIONS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
48	53	41	.109	.105	18	26	12	63	24	72¾	90	2½ to 1	2 Pc.
54	60	46	.109	.105	18	30	12	70	30	82¼	102	2 to 1	2 Pc.
60	66	51	.109*	.105*	18	33	12	77	—	—	114	1½ to 1	3 Pc.
66	73	55	.109*	.105*	18	36	12	77	—	—	126	1½ to 1	3 Pc.
72	81	59	.109*	.105*	18	39	12	77	—	—	138	2 to 1	3 Pc.
78	87	63	.109*	.105*	22	38	12	77	—	—	148	1½ to 1	3 Pc.
84	95	67	.109*	.105*	22	34	12	77	—	—	162	1½ to 1	3 Pc.
90	103	71	.109*	.105*	22	38	12	77	—	—	174	1½ to 1	3 Pc.
96	112	75	.109*	.105*	24	40	12	77	—	—	174	1½ to 1	3 Pc.

NOTE: ALL SPLICES TO BE LAP RIVETED OR BOLTED.

* EXCEPT CENTER PANEL SEE GENERAL NOTES

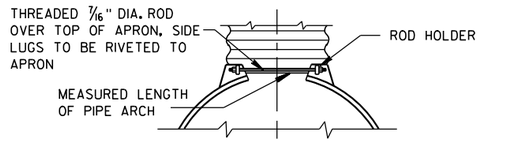
REINFORCED CONCRETE PIPE ARCH

EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	29	18	3	8½	39	33	72	48	3 to 1
30	36	22	3½	9½	50	46	96	60	3 to 1
36	44	27	4	11⅛	60	36	96	72	3 to 1
42	51	31	4½	15 13/16	60	36	96	78	3 to 1
48	58	36	5	21	60	36	96	84	3 to 1
54	65	40	5½	25½	60	36	96	90	3 to 1
60	73	45	6	31	60	36	96	96	3 to 1
72	88	54	7	31	60	39	99	120	2 to 1
84	102	62	8	28½	83	19	102	144	2 to 1

REINFORCED CONCRETE ELLIPTICAL PIPE

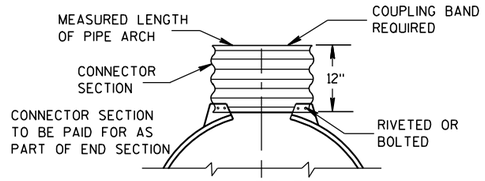
EQUIV. DIA. (Inches)	DIMENSIONS (Inches) ** SPAN	** RISE	T	A	B	C	D	E	APPROX. SLOPE
24	30	19	3¼	8½	39	33	72	48	3 to 1
30	38	24	3¾	9½	54	18	72	60	3 to 1
36	45	29	4½	11⅛	60	24	84	72	2½ to 1
42	53	34	5	15¾	60	36	96	78	2½ to 1
48	60	38	5½	21	60	36	96	84	2½ to 1
54	68	43	6	25½	60	36	96	90	2½ to 1
60	76	48	6½	30	60	36	96	96	2½ to 1

**NOMINAL SIZE



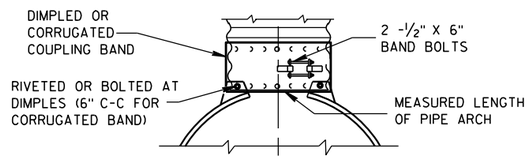
TYPE 2

FOR 17" X 13" THRU 112" X 75" PIPE ARCH



TYPE 3

FOR 64" X 43" THRU 112" X 75" PIPE ARCH



TYPE 5

ALTERNATE FOR:

ALL SIZES CORRUGATED PIPE ARCHES

NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL.

CONNECTION DETAILS

GENERAL NOTES

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

CONCRETE APRON ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM APRON ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 66" X 51" PIPE ARCH AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE ARCH PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 77" X 52" THROUGH 112" X 75" APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE ARCH SIZES UP TO 73" X 55" A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR PIPE ARCH AND ELLIPTICAL PIPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

11/30/94 — DATE

/S/ Rory L. Rhinesmith — CHIEF ROADWAY DEVELOPMENT ENGINEER

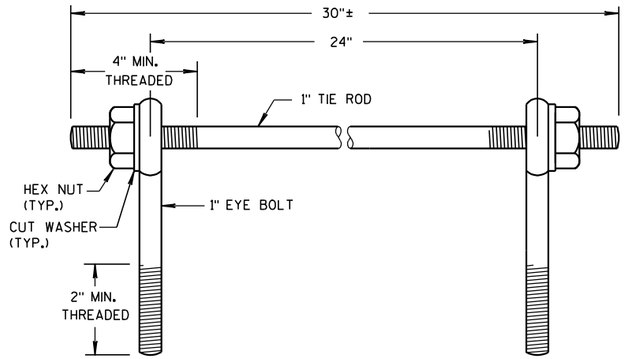
FHWA

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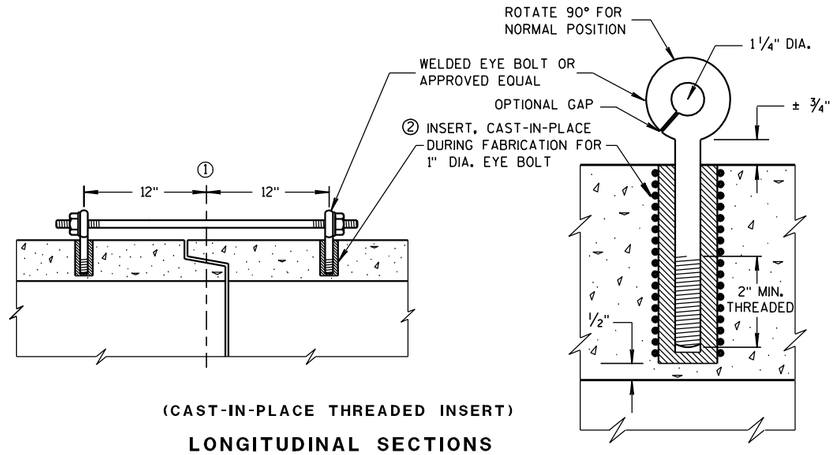
S.D.D. 8 F 2-1

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S.D.D. 8 F 2-1



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 1)

GENERAL NOTES

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

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

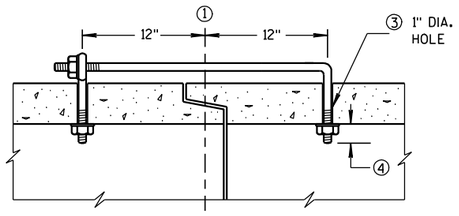
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

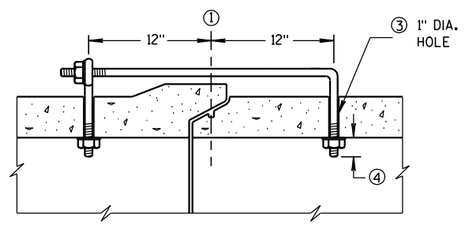
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

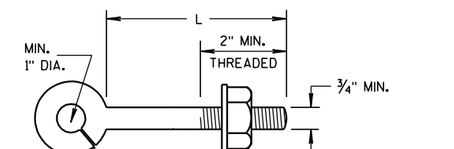


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

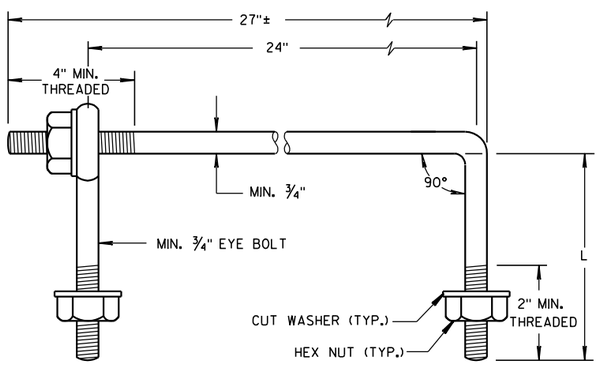
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

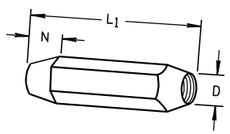
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

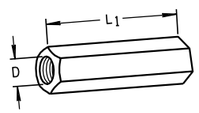
ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

DIMENSIONS SHOWN ARE IN INCHES



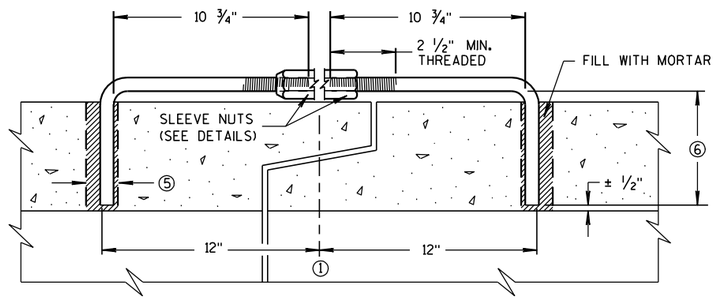
TAPERED



PLAIN

RIGHT AND LEFT THREADS

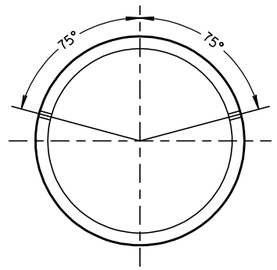
SLEEVE NUTS



LONGITUDINAL SECTION

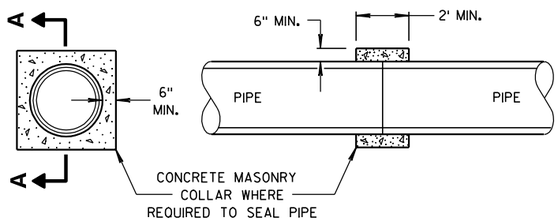
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

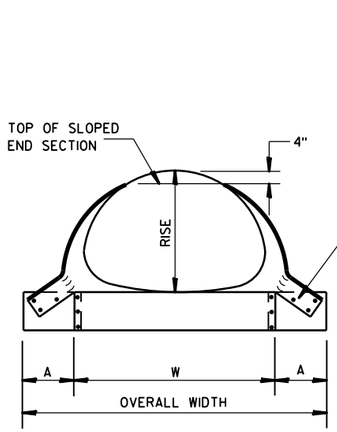
APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

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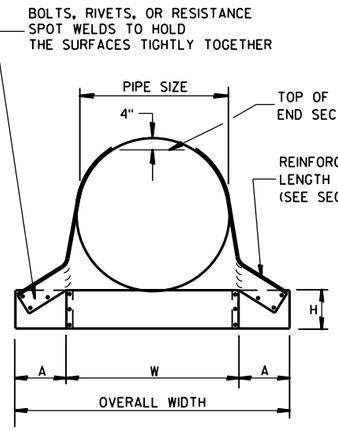
S.D.D. 8 F 4-7

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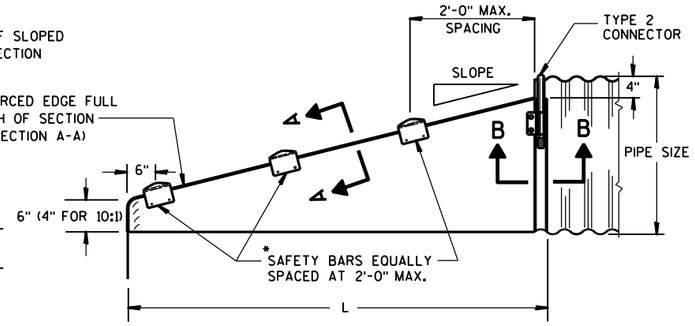
S.D.D. 8 F 4-7



FRONT VIEW



FRONT VIEW



SIDE VIEW

GENERAL NOTES

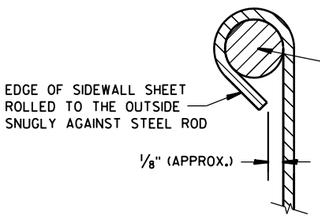
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SLOPED END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, SECTION 521 FOR STEEL APRON ENDWALLS.

SAFETY BARS SHALL BE FABRICATED FROM GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL.

STEEL APRON ENDWALLS FOR CULVERT PIPE
SLOPED SIDE DRAINS

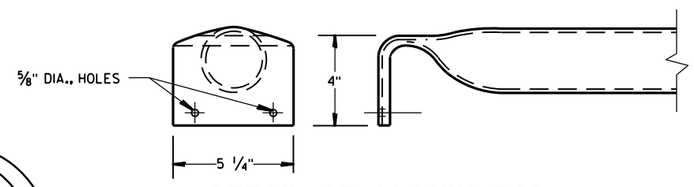
PIPE DIA. (IN.)	MIN. THICK. (Inches)	DIMENSIONS (Inches)				L DIMENSIONS					
		A	H	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	.064	8	6	21	37	4:1	20	6:1	30	10:1	70
18	.064	8	6	24	40	4:1	32	6:1	48	10:1	100
21	.064	8	6	27	43	4:1	44	6:1	66	10:1	130
24	.064	8	6	30	46	4:1	56	6:1	84	10:1	160
30	.109	12	9	36	60	4:1	80	6:1	120	10:1	220
36	.109	12	9	42	66	4:1	104	6:1	156	10:1	280
42	.109	16	12	48	80	4:1	128	6:1	192	——	——
48	.109	16	12	54	86	4:1	152	6:1	228	——	——
54	.109	16	12	60	92	4:1	176	6:1	264	——	——
60	.109	16	12	66	98	4:1	200	6:1	300	——	——



SECTION A-A

*NOTE:
THREE SAFETY BARS ARE SHOWN. ACTUAL NUMBER OF BARS REQUIRED AT A 2'-0" C-C MAX. SPACING WILL VARY DEPENDING ON THE LENGTH OF THE END SECTION.

3" GALVANIZED PIPE. FLATTEN ENDS, THEN BEND OUTSIDE 4" TO MATCH END SECTION SIDES.

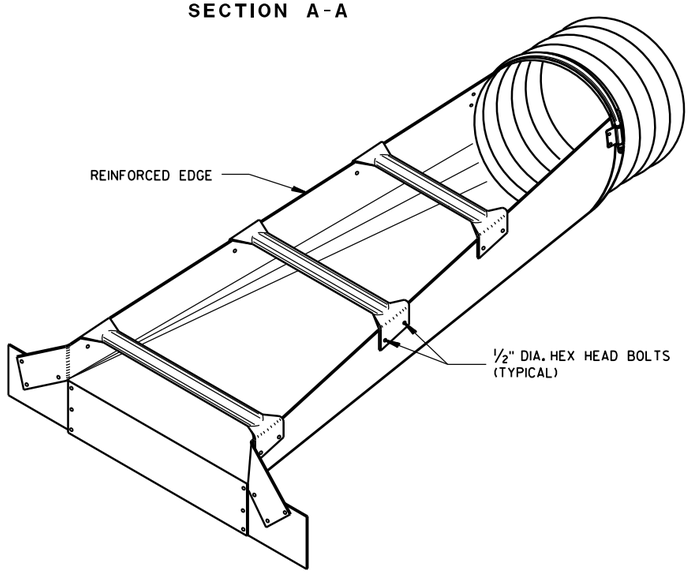


DETAIL OF SAFETY BAR

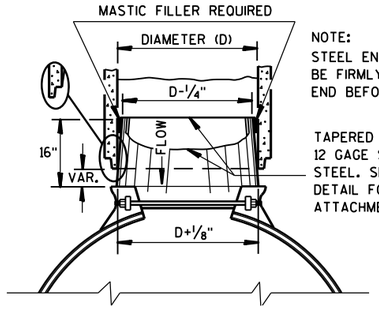
STEEL APRON ENDWALLS FOR PIPE ARCH
SLOPED SIDE DRAINS

EQUIV. DIA. (Inches)	(Inches) SPAN	(Inches) RISE	MIN. THICK. (Inches) ①	DIMENSIONS (Inches) A	H	W	OVERALL WIDTH	L DIMENSIONS SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
15	17	13	.064 *	7	6	30	44	4:1	19	6:1	30	10:1 ②	70
18	21	15	.064 *	8	6	27	43	4:1	20	6:1	30	10:1	70
21	24	18	.064 *	8	6	30	46	4:1	32	6:1	48	10:1	100
24	28	20	.064 *	8	6	34	50	4:1	40	6:1	60	10:1	120
30	35	24	.079 *	12	9	41	65	4:1	56	6:1	84	10:1	160
36	42	29	.109 *	12	9	48	72	4:1	76	6:1	114	10:1	210
42	49	33	.109	16	12	55	87	4:1	92	6:1	138	——	——
48	57	38	.109	16	12	63	95	4:1	112	6:1	168	——	——
54	64	43	.109	16	12	70	102	4:1	132	6:1	198	——	——

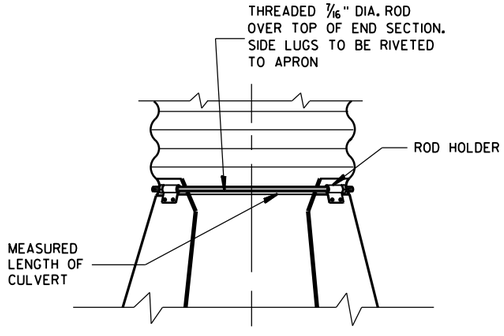
① * MINIMUM THICKNESS OF ALL 10:1 SLOPED SIDE DRAINS IS 0.109".
② ACTUAL SLOPE GREATER THAN 10:1.



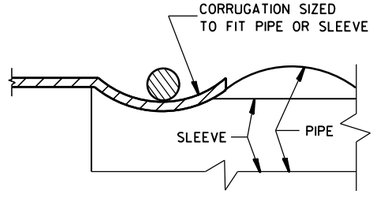
ISOMETRIC VIEW



STEEL ADAPTER SLEEVE FOR CONCRETE PIPE



TYPE 2
CONNECTION DETAIL



SECTION B-B

STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

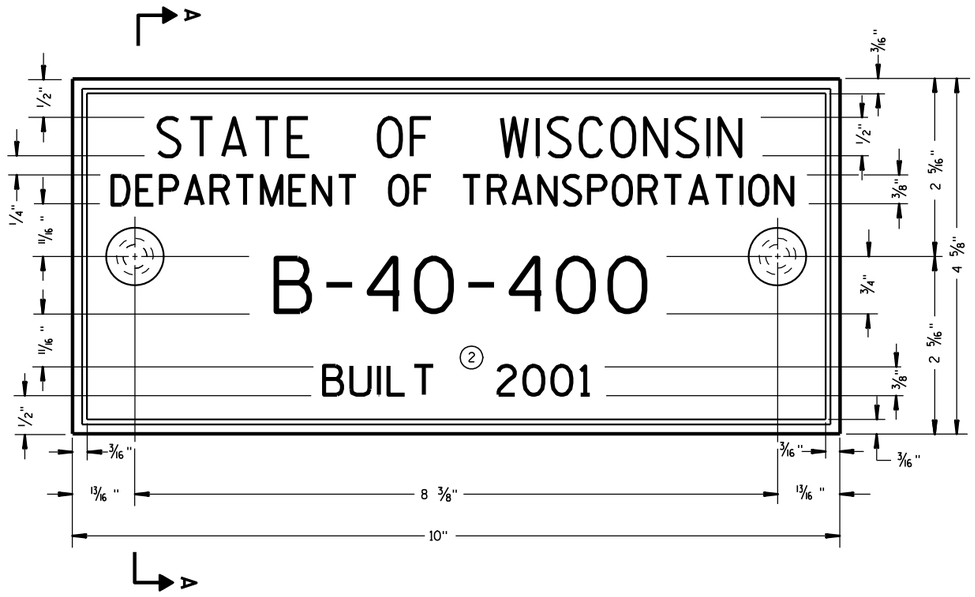
APPROVED
9/14/2012 — DATE
/S/ Jerry H. Zoda — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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S.D.D. 8 F 7-5

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S.D.D. 8 F 7-5



TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)

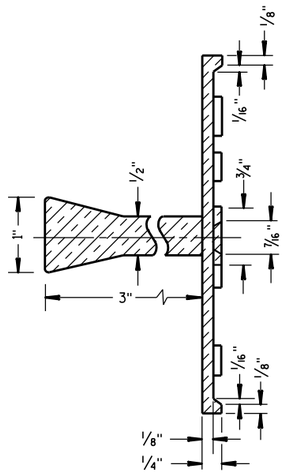
GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

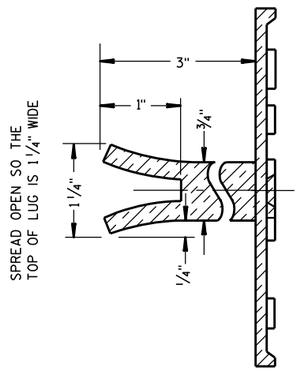
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(1) EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

(2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG

FOR MULTI-UNIT STRUCTURES LINE 3 ABOVE SHALL READ

B = BRIDGE
C = CULVERT
R = RETAINING WALL

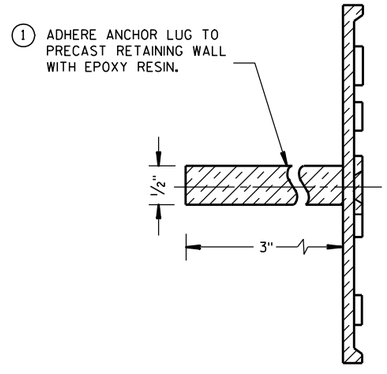
COUNTY NO.

BRIDGE NO.

UNIT NO. FOR MULTIPLE UNIT BRIDGE

B-40-400-1A

NUMBERING DESIGNATION MULTI-UNIT STRUCTURES



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/26/10 DATE

/S/ Scot Beck-- CHIEF STRUCTURAL DEVELOP ENGINEER

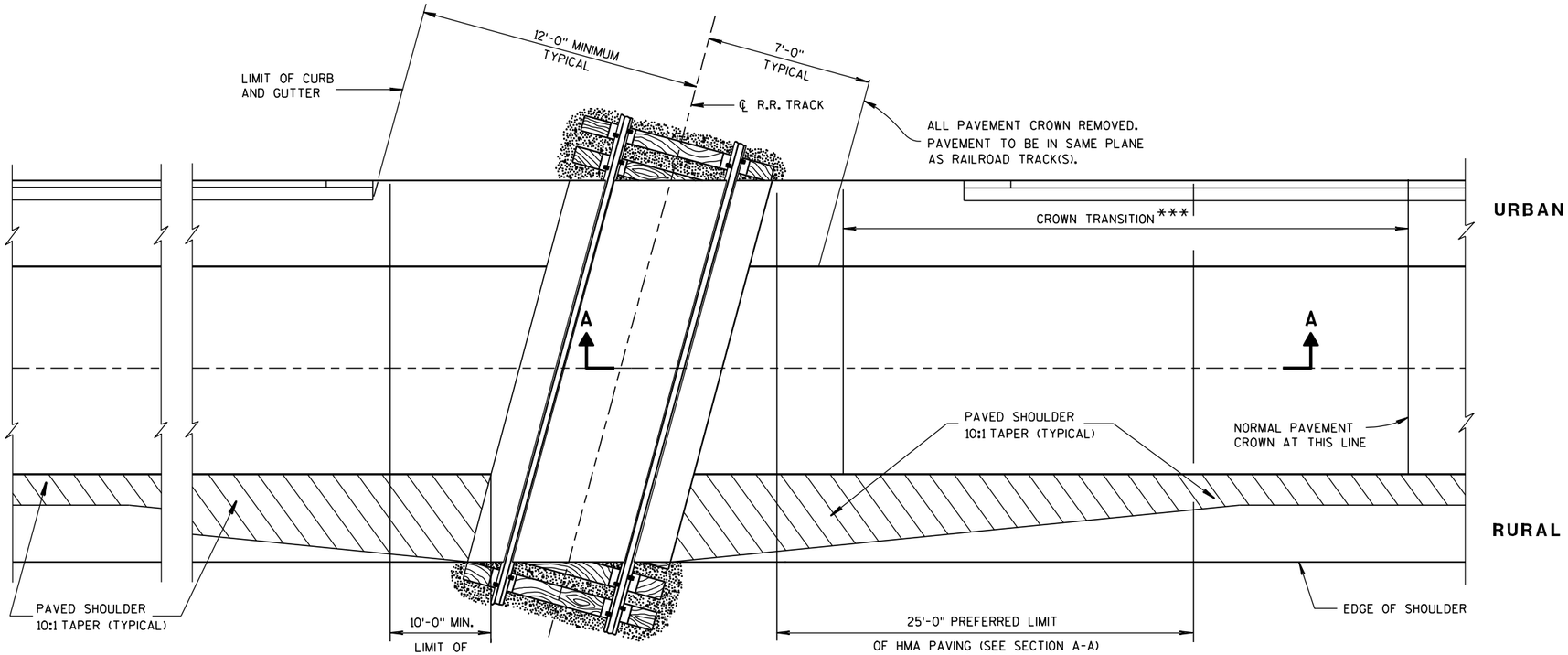
FHWA

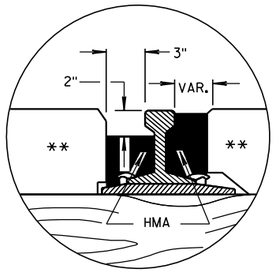
6

S.D.D. 12 A 3-10

6

S.D.D. 12 A 3-10





DETAIL B

HMA FLANGEWAY AND FIELD FILLERS

GENERAL NOTES

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

TIMBER, CONCRETE OR RUBBER CROSSING SURFACE MATERIAL, RAILS, TIES, BALLAST, GEOTEXTILE FABRIC AND CROSSING DRAINAGE SYSTEM BY OTHERS UNLESS OTHERWISE PROVIDED.

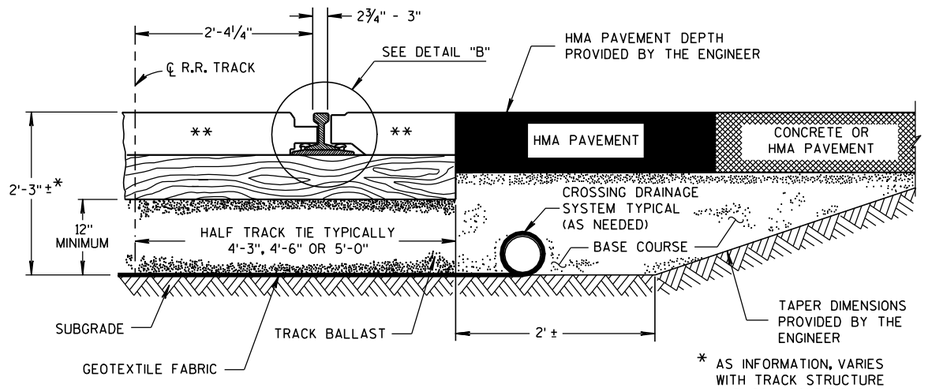
HMA PAVEMENT APPROACHES AND HMA PAVEMET CROSSING SURFACES TO BE PLACED BY CONTRACTOR UNLESS OTHERWISE PROVIDED.

HMA FLANGEWAY AND FIELD FILLERS TO BE PLACED AND THOROUGHLY HAND COMPACTED BY THE CONTRACTOR WHEN NOT PROVIDED BY OTHERS. SEE DETAIL B. HMA FILLERS NOT REQUIRED WHEN RUBBER FILLERS ARE PROVIDED.

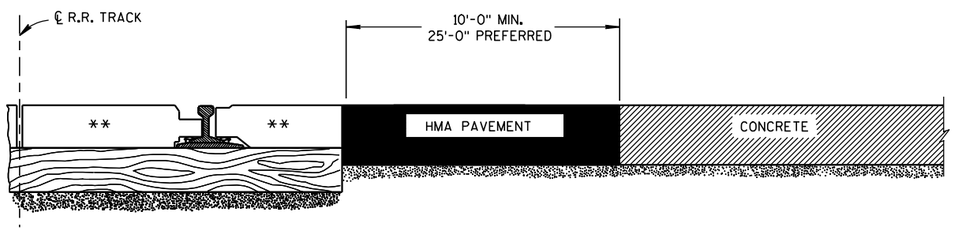
HMA PAVEMENT SHALL BE ROLLED PARALLEL TO THE TRACK.

** CROSSING SURFACE MAY BE TIMBER, RUBBER, CONCRETE, HMA PAVEMENT OR A COMBINATION OF SUCH MATERIALS.

*** CROWN TRANSITION LENGTH SHOWN ELSEWHERE IN THE PLAN.



TYPICAL HALF SECTION



SECTION A-A

CONCRETE PAVEMENT APPROACH



SECTION A-A

HMA PAVEMENT APPROACH

EXAMPLES OF PAVEMENT APPROACHES

PAVEMENT DETAILS FOR RAILROAD APPROACH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

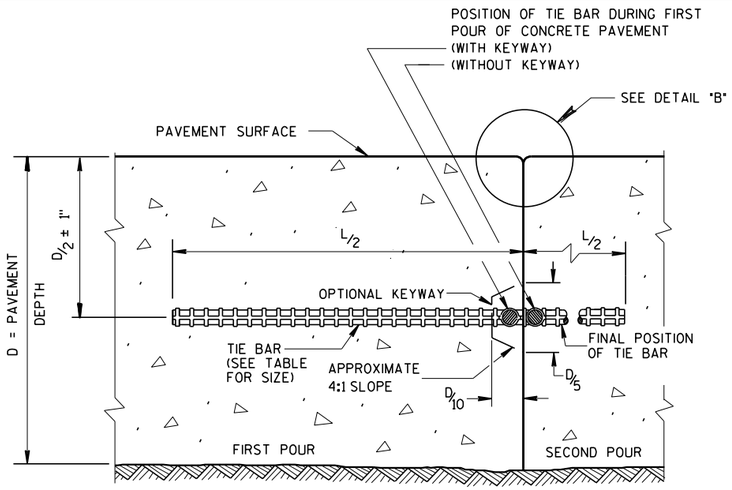
APPROVED
8-28-09 DATE
/S/ Ronald E. Adams
CHIEF, RAILROADS & HAI CTION
FHWA

6

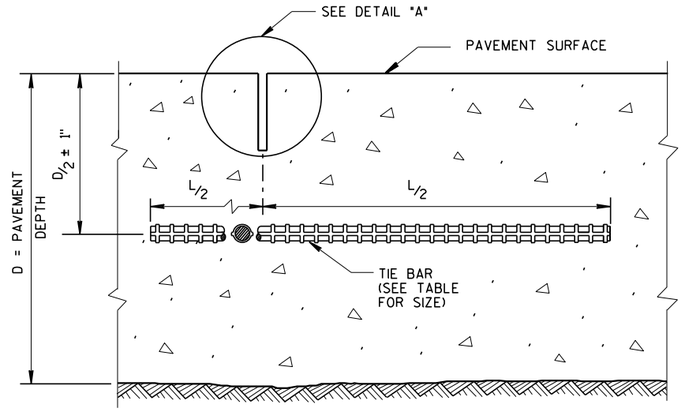
S.D.D. 13 B 1-10

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S.D.D. 13 B 1-10



CONSTRUCTION JOINT



SAWED JOINT

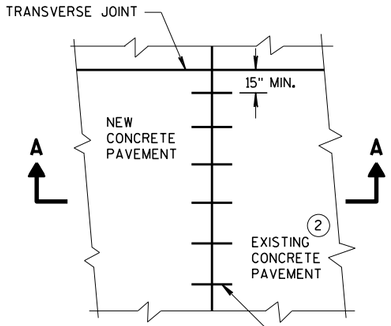
GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

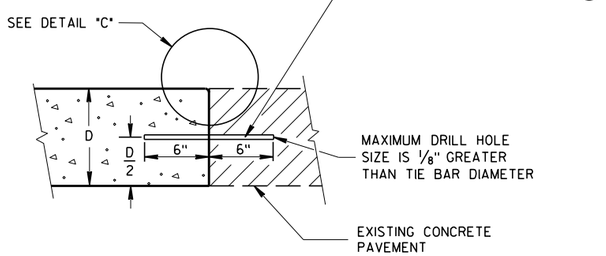
CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

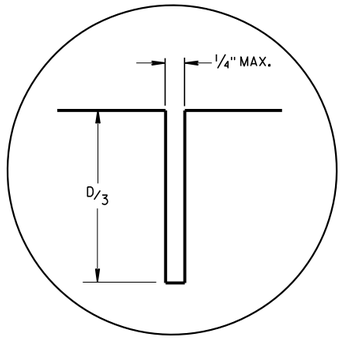


PLAN VIEW

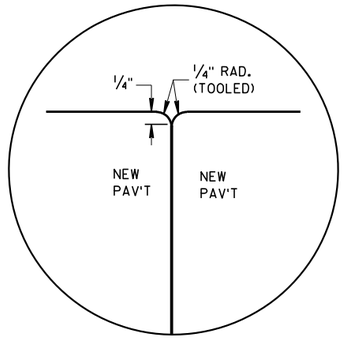


SECTION A-A

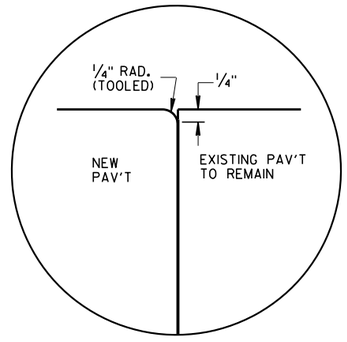
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"



DETAIL "B"



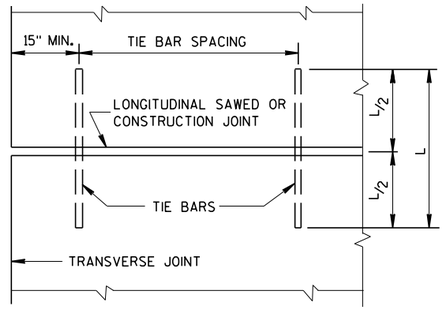
DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



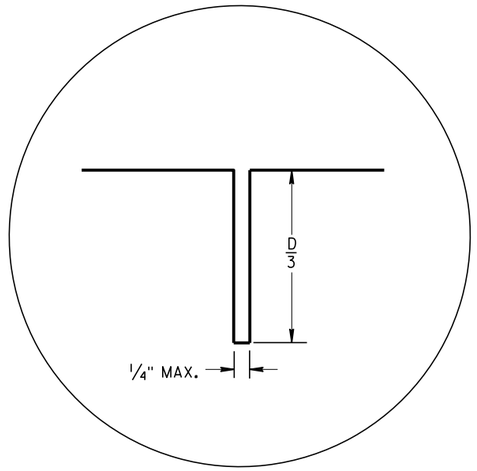
PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

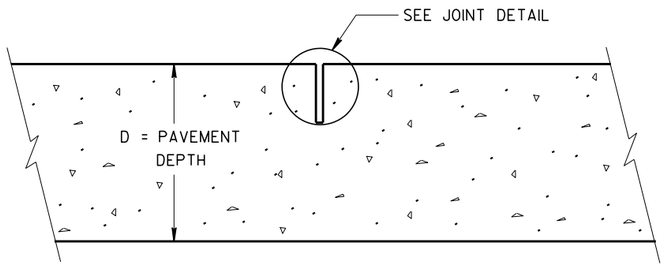
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Peter Kemp PE — PAVEMENT SUPE
FHWA

6
S.D.D. 13 C 1-19



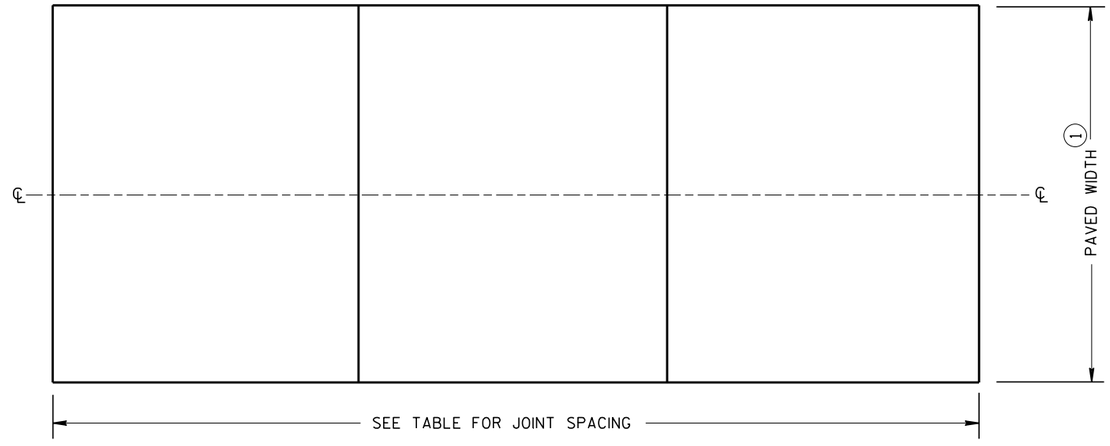
JOINT DETAIL



CONTRACTION JOINT

PAVEMENT DEPTH AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 1/2"	12'
7", 7 1/2"	14'
8" & ABOVE	15'



CONTRACTION JOINT LOCATIONS

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE.

LOCATE AND ORIENT CONTRACTION JOINTS THROUGH INTERSECTIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

CONSTRUCTION JOINTS

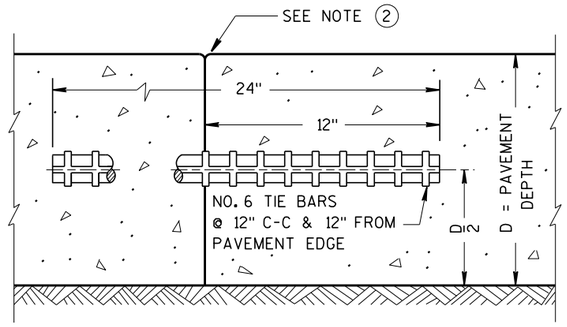
LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO THE CONTRACTION JOINTS.

FORM OR SAW CONSTRUCTION JOINTS.

THE CONTRACTOR MAY INSERT TIE BARS THROUGH THE HEADER BOARD AFTER THE CONCRETE HAS BEEN PLACED.

(1) REFER TO TYPICAL CROSS SECTIONS FOR PAVED WIDTH AND LOCATION OF LONGITUDINAL JOINTS.

(2) PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS. PROVIDE A 1/4-INCH RADIUS AT FORMED JOINTS.



TIED TRANSVERSE CONSTRUCTION JOINT

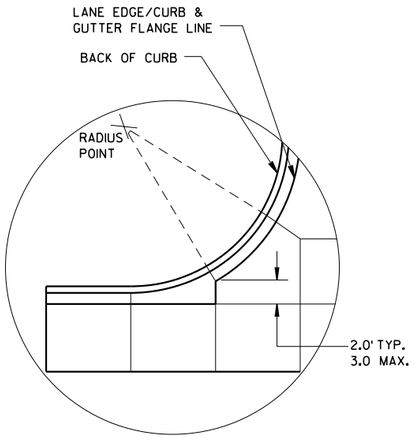
URBAN
NON-DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

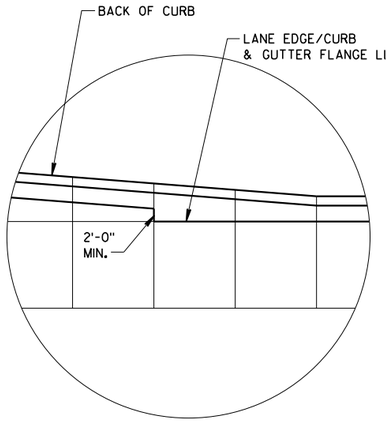
APPROVED
March 2018
DATE
/S/ Peter Kemp P.E.
PAVEMENT SUPT
FHWA

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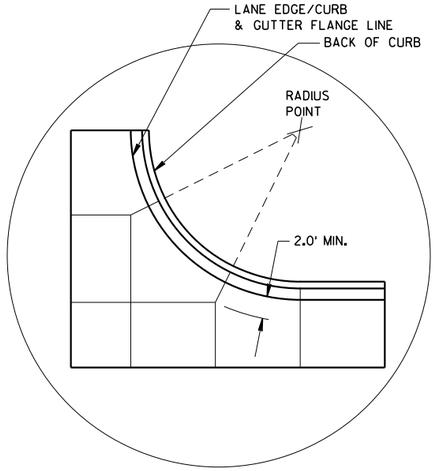
S.D.D. 13 C 4-17



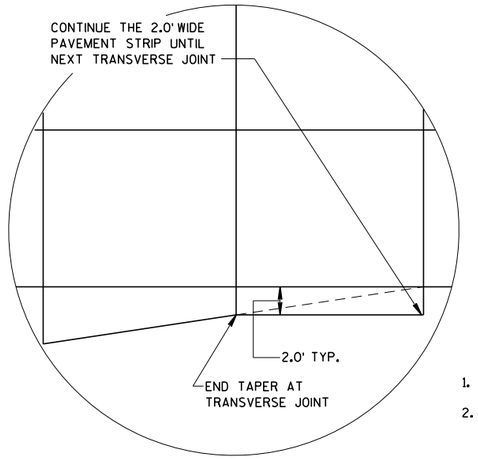
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G. MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

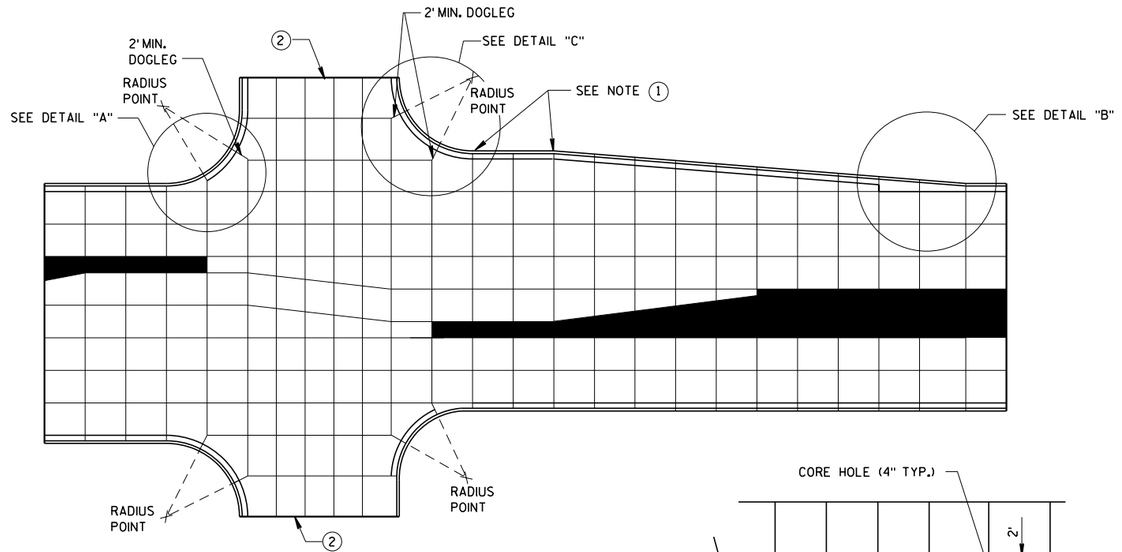
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

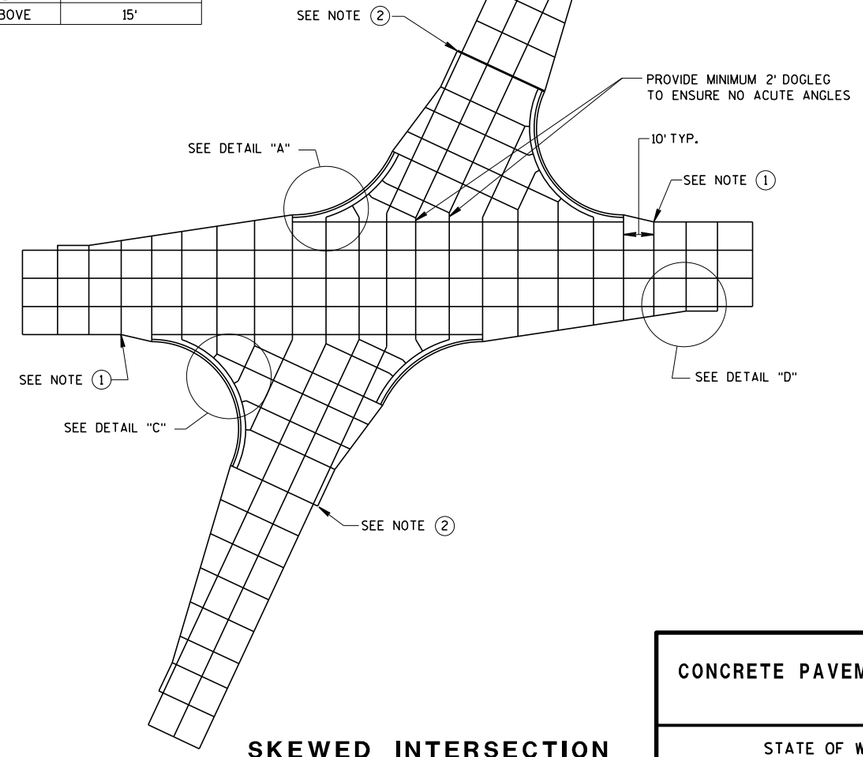
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



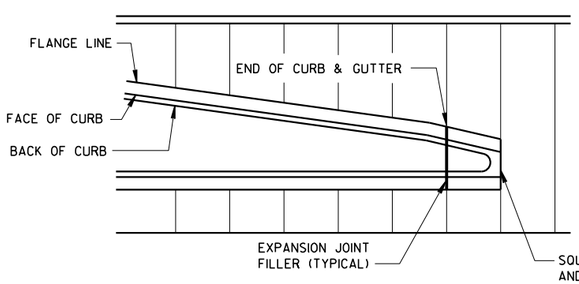
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

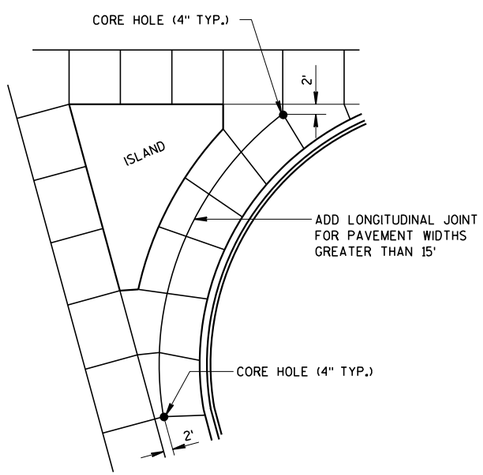
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6½"	12'
7", 7½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

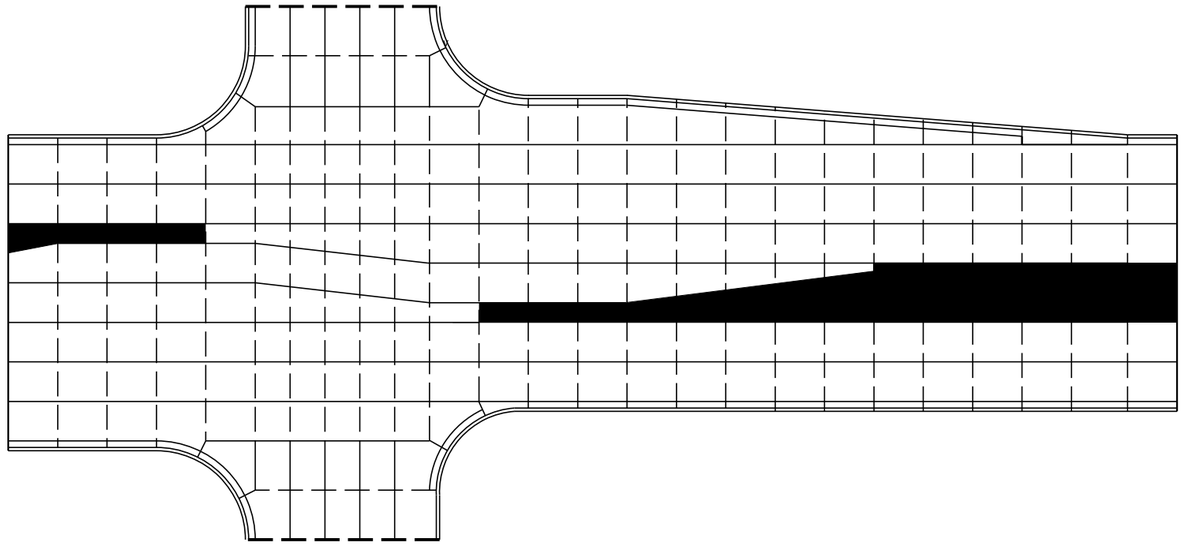
6
S.D.D. 13 C 18-6a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

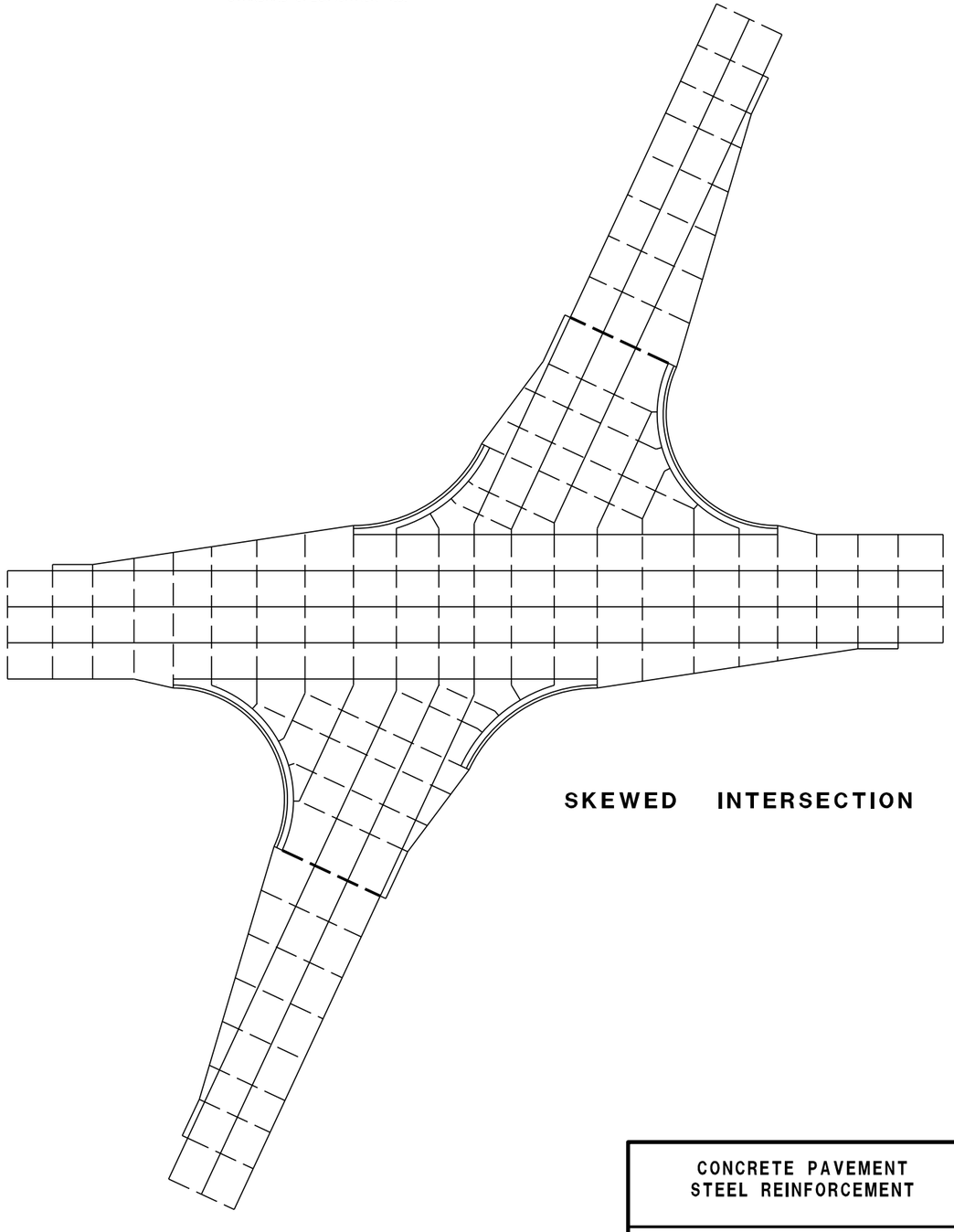
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

6

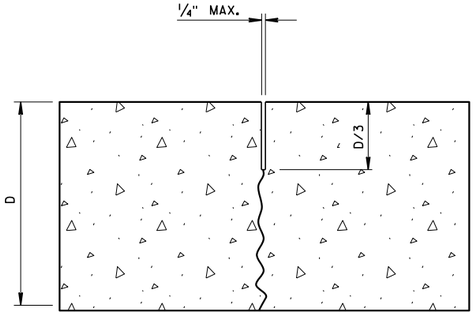
6

S.D.D. 13 C 18-6b

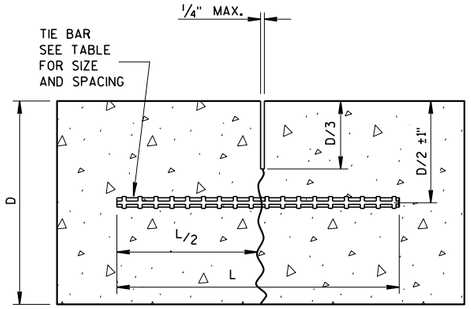
S.D.D. 13 C 18-6b

CONCRETE PAVEMENT
STEEL REINFORCEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



UNDOWELED-TRANSVERSE



TIED LONGITUDINAL

TIE BAR TABLE

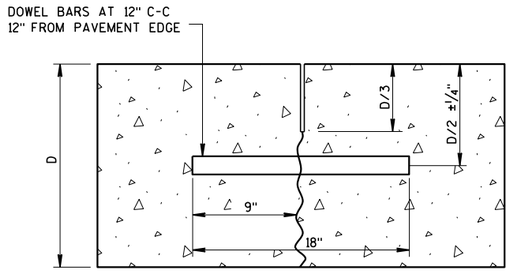
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

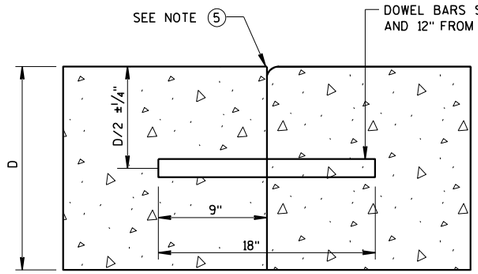
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATE THE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A 1/4-INCH RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



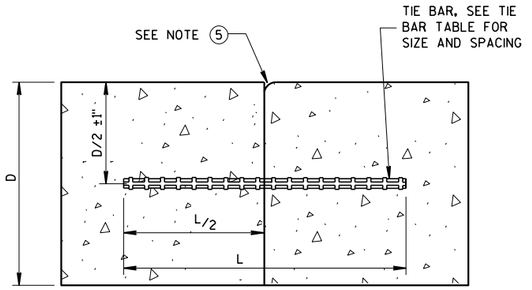
DOWELED-TRANSVERSE

CONTRACTION JOINTS

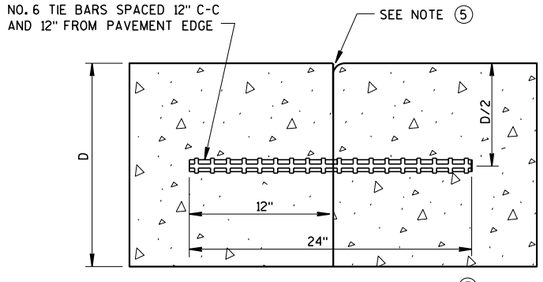
SEE NOTE (2)



DOWELED TRANSVERSE (3)

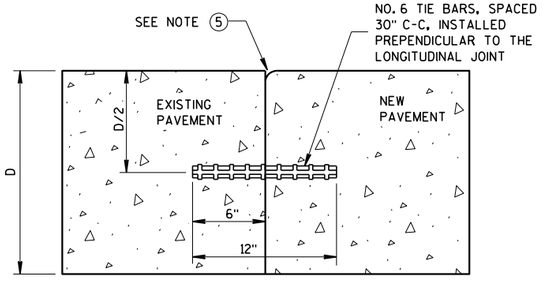


TIED LONGITUDINAL



TIED TRANSVERSE (3)

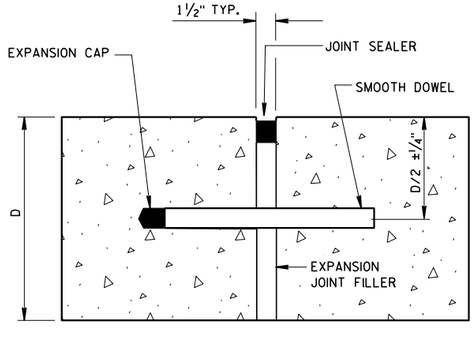
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

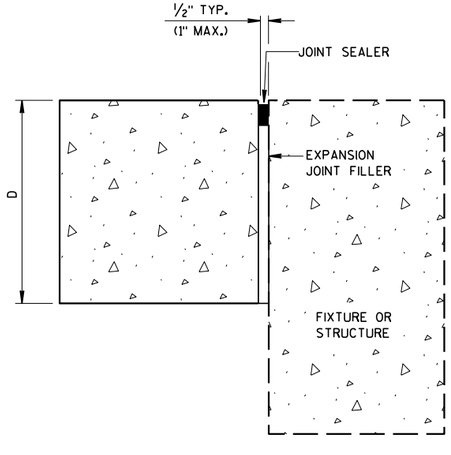
CONSTRUCTION JOINTS

SEE NOTE (4)



DOWELED-TRANSVERSE

SEE NOTE (1)



UNTIED-LONGITUDINAL

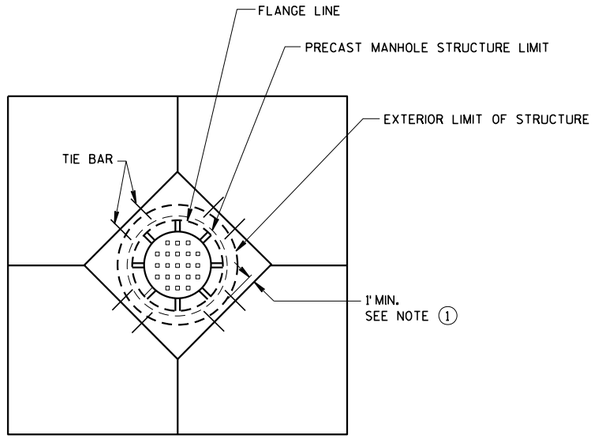
EXPANSION JOINTS

CONCRETE PAVEMENT
JOINT TYPES

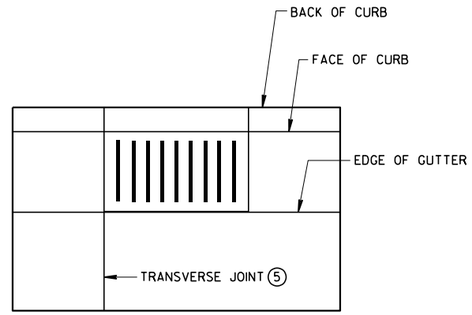
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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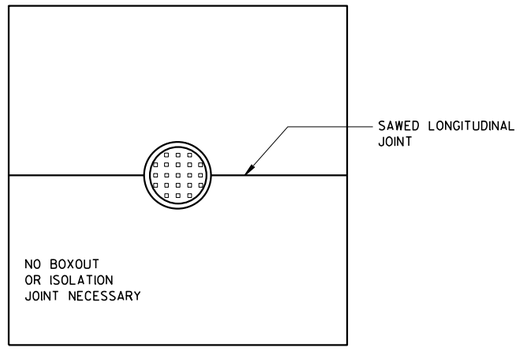
S.D.D. 13 C 18-6c



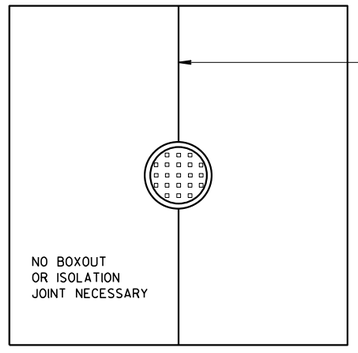
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



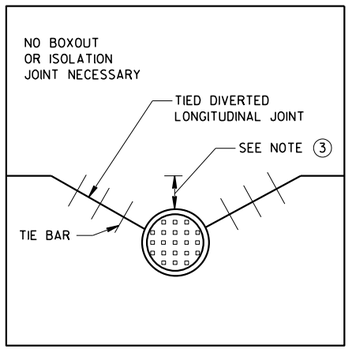
INLET WITH TRANSVERSE JOINT



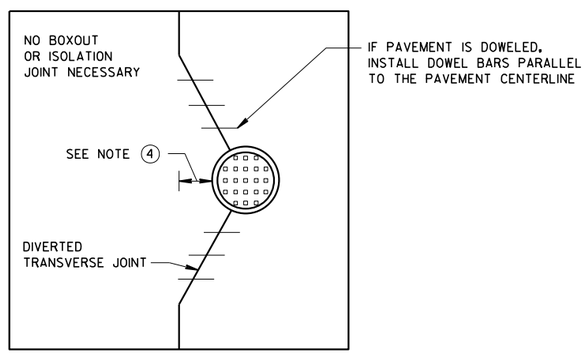
MANHOLE WITH LONGITUDINAL JOINT



MANHOLE WITH TRANSVERSE JOINT



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT

GENERAL NOTES

(1) USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1-FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.

(2) ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.

(3) IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDIAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(4) IF DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

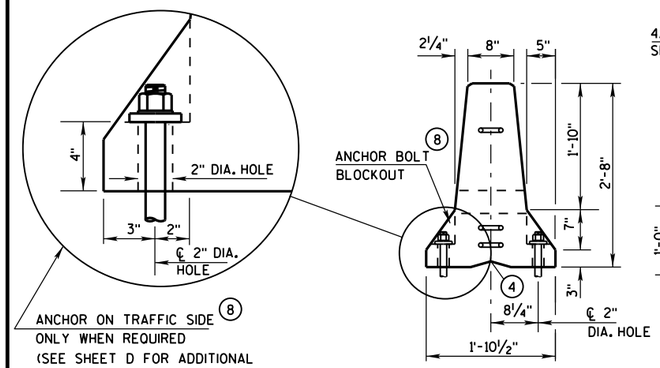
(5) ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

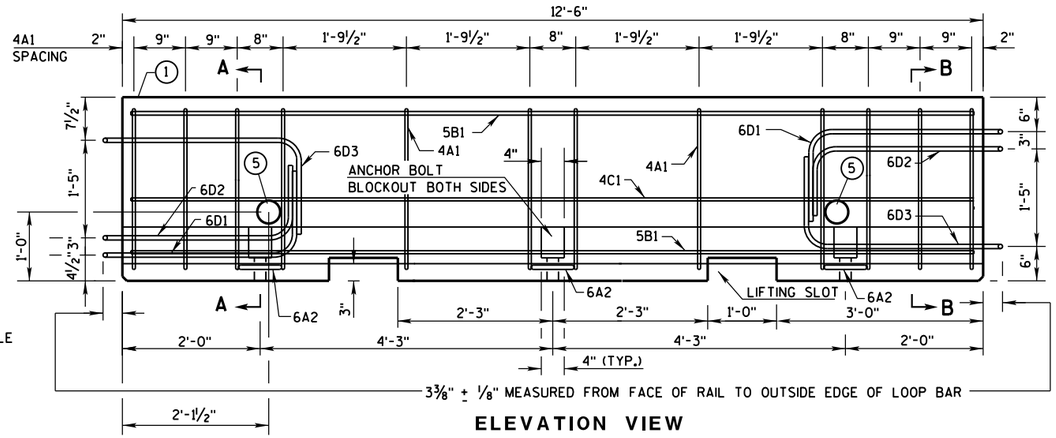
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE
/S/ Peter K[illegible] P.E.
PAVEMENT SUPT
FHWA

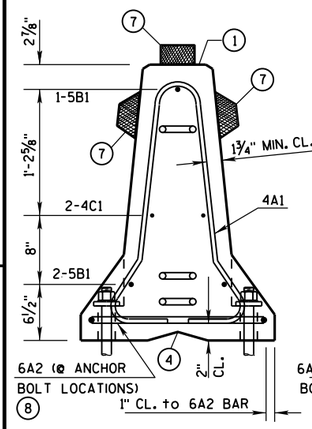
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S.D.D. 13 C 18-6d



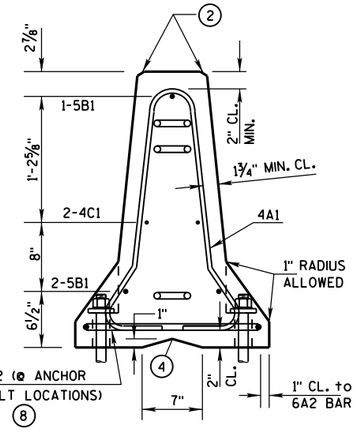
END VIEW



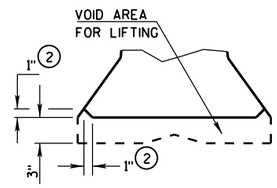
ELEVATION VIEW



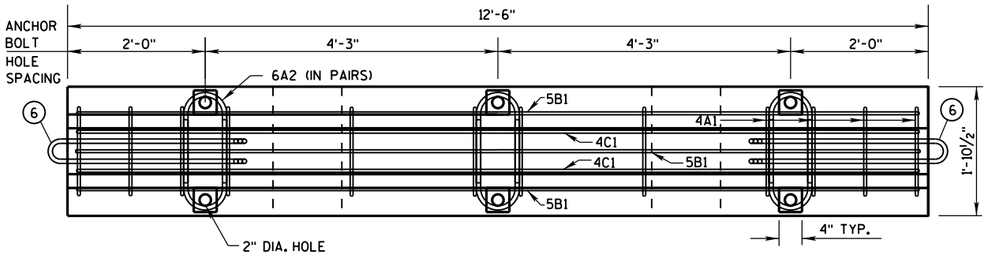
SECTION A-A
(STIRRUP PLACEMENT)



SECTION B-B
(STIRRUP PLACEMENT)

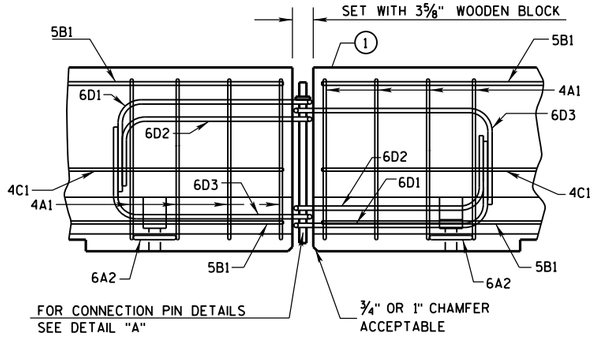


DETAIL "B"
LIFTING SLOT DETAIL

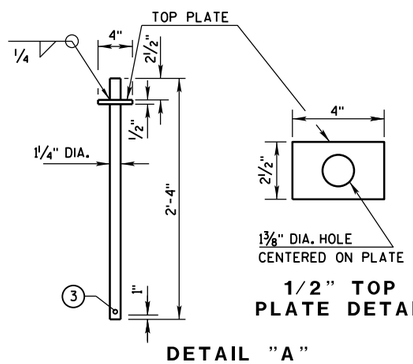


PLAN VIEW

DETAILS OF BARRIER SECTION

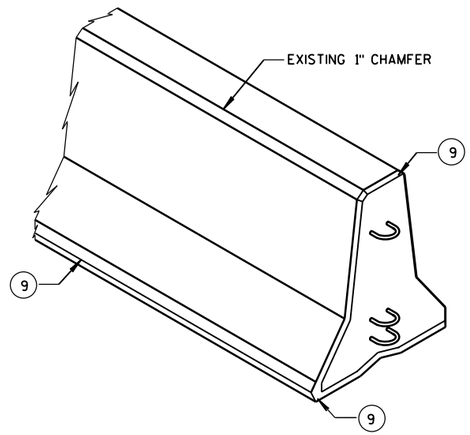


DETAILS OF BARRIER CONNECTION



1/2" TOP
PLATE DETAIL

DETAIL "A"
CONNECTION PIN
(A36 STEEL (10.9 LB EACH))



GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-15(a) THRU 14B7-15(i).

DO NOT INTERMIX CONCRETE BARRIER TEMPORARY PRCAST, 12'-6" (CBTP12.5) WITH OTHER TEMPORARY CONCRETE BARRIERS.

USE ASTM A-615, GRADE 60, DEFORMED STEEL BARS FOR BARS 4A1, 6A2, 5B1 AND 4C1 IN THE BARRIER SECTION AND FOR 4V1, 4V2, 4V3, 4V4, 4V5, 4V6, 4F1, 4F2 AND 5F3 IN THE BARRIER TAPER SECTION.

LOOP BARS 6D1, 6D2 AND 6D3 SHALL BE ¾" SMOOTH STEEL BARS WITH A MINIMUM YIELD STRENGTH OF 60 KSI, A TENSILE STRENGTH OF NOT LESS THAN 1.25 TIMES THE YIELD STRENGTH BUT A MINIMUM OF 80 KSI, A MINIMUM 14% ELONGATION IN 8 INCHES AND PASSING A 180 DEGREE BEND TEST USING A 3-½" PIN BEND DIAMETER FOR BEND TESTS. THE LOOPS SHALL BE INSTALLED WITHIN ⅛" OF THE PLAN DIMENSION.

CONSTRUCT LIFTING SLOTS AS SPECIFIED ON THE PLANS TO FACILITATE THE DRAINAGE OF WATER AFTER INSTALLATION.

PLACE BARRIER ON A PAVED SURFACE. REMOVE ALL LOOSE DIRT AND SAND FROM THE ROADWAY SURFACE PRIOR TO PLACEMENT OF THE BARRIER.

INSTALL MECHANICAL OR ADHESIVE ANCHORS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S INFORMATION TO PROJECT ENGINEER.

(1) MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
- a. TYPE: WI CBTP
- b. MANUFACTURER
- c. DATE MANUFACTURED (MONTH AND YEAR)

(2) 1" CHAMFER TO PREVENT SPALLING.

(3) A ⅜" HOLE IN THE CONNECTION PIN, AT THE LOCATION SHOWN, IS ACCEPTABLE, BUT NOT REQUIRED..

(4) "V" NOTCH IS OPTIONAL.

(5) THE 4" DIAMETER, 11 GAUGE STEEL, ROUND MECHANICAL TUBING SLEEVE FOR LIFTING (OPTIONAL).

(6) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

(7) USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MAY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURES INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED TO THE LEFT OF TRAFFIC AND WHITE REFLECTORS WHEN BARRIER IS LOCATED TO THE RIGHT OF TRAFFIC. SPACE DELINEATORS A MAXIMUM OF 25 FEET APART. PROVIDE TOP MOUNTED DELINEATORS IN ADDITION TO THE SIDE MOUNTED DELINEATORS ON ALL BARRIER INSTALLATIONS LOCATED ON A CURVED ALIGNMENT LONGER THAN 200 FEET AND ON BARRIERS USED TO SEPARATE OPPOSING TRAFFIC.

(8) SEE SHEET D FOR HOW TO ANCHOR BARRIER. SEE SHEET E FOR WHEN TO ANCHOR BARRIER.

(9) 1" CHAMFER OPTIONAL.

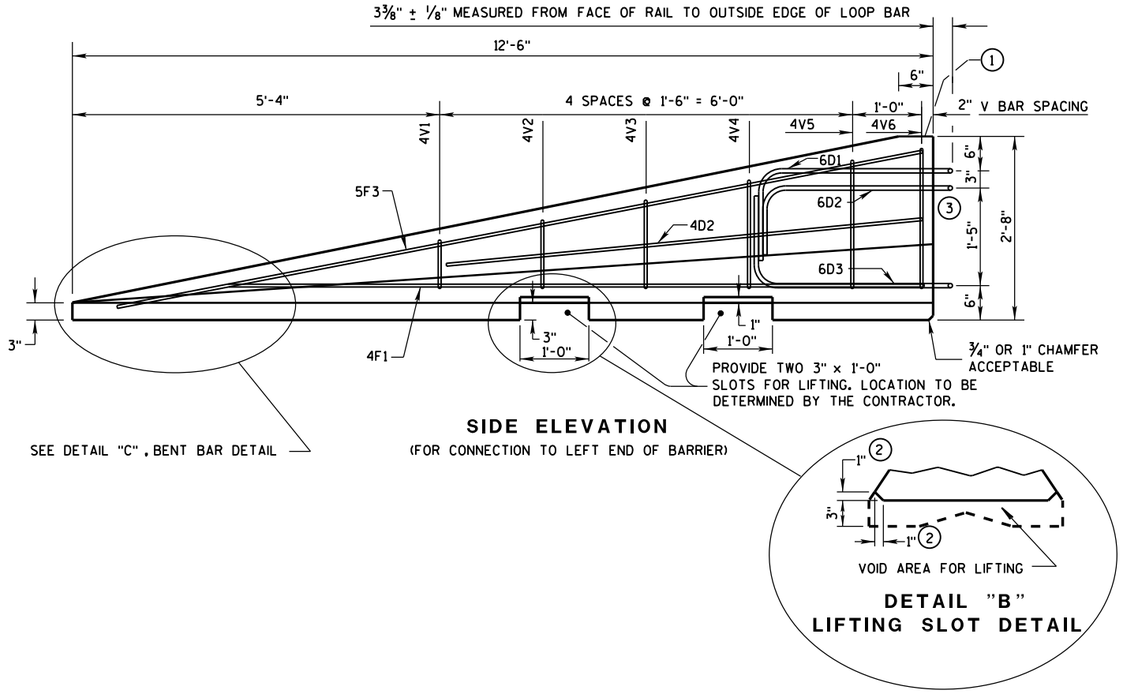
f'c = 4,000 psi

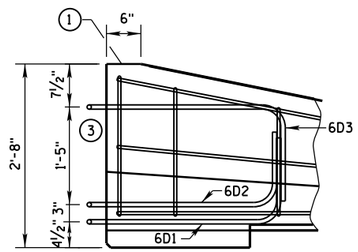
CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

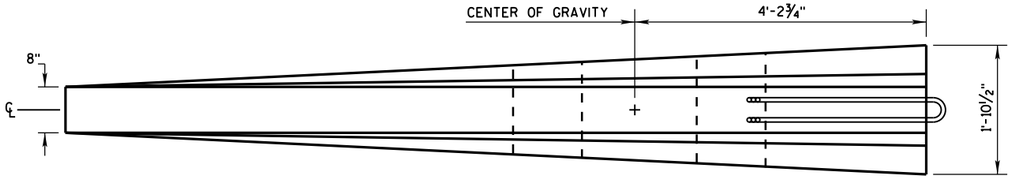
S.D.D. 14 B 7-15a

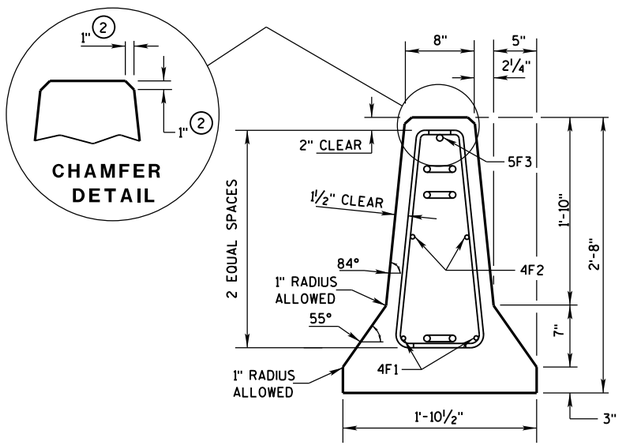


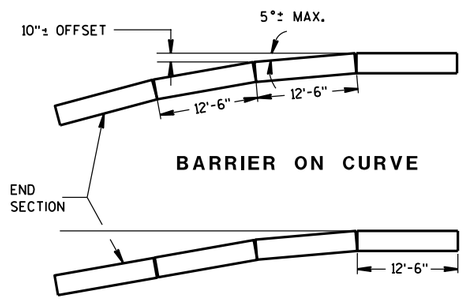


GENERAL NOTES

1. MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
   a. TYPE WICBTP
   b. MANUFACTURER
   c. DATE MANUFACTURED (MONTH AND YEAR)
2. 1" CHAMFER TO PREVENT SPALLING.
3. NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.







POSTED SPEED, (MPH)	FLARE RATE
40 OR LESS	6:1
45 OR GREATER	8:1

DETAILS OF BARRIER TAPER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

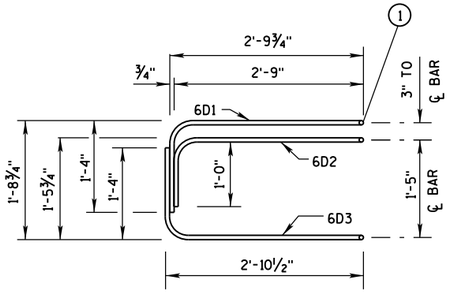
6

S.D.D. 14 B 7-15b

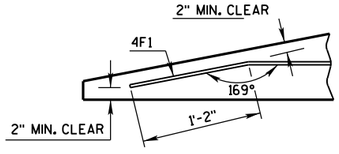
BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

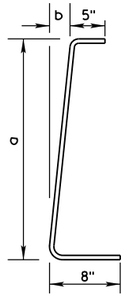
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



ELEVATION
LOOP BAR ASSEMBLY



DETAIL "C"
BENT BAR DETAIL



BAR	a	b
V1	10"	1"
V2	1'-1"	1¼"
V3	1'-5"	1⅝"
V4	1'-8"	1⅞"
V5	2'-0½"	2⅜"
V6	2'-3"	2¾"

4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

TAPER BARRIER SECTION

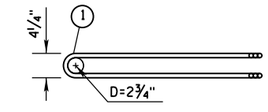
GENERAL NOTES

(1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

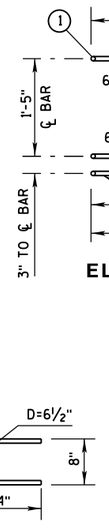
BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

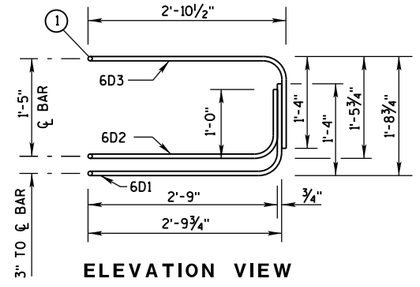
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
LOOP ASSEMBLY			
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"



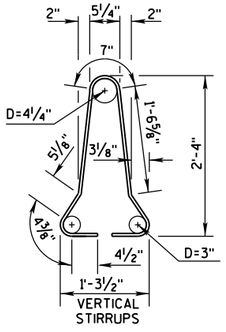
PLAN VIEW
LOOP BAR ASSEMBLY
(MARKED END SHOWN, INVERT FOR OTHER END)



6A2



ELEVATION VIEW



4A1

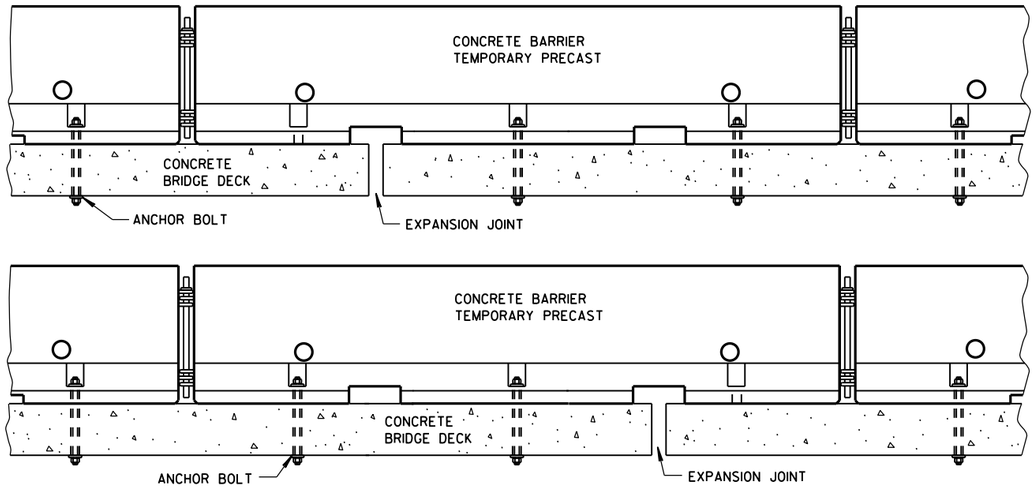
BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

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S.D.D. 14 B 7-15c



TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(NO SINGLE CONCRETE BARRIER SECTION SHALL BE ANCHORED TO BOTH THE BRIDGE DECK AND THE APPROACH SLAB. ALL ANCHOR BOLT LOCATIONS SHALL BE ANCHORED TO THE DECK IN ACCORDANCE WITH THE DETAIL. NO MORE THAN ONE ANCHOR BOLT SHALL BE ELIMINATED FROM A BARRIER SECTION WHEN SPANNING AN EXPANSION JOINT.)

GENERAL NOTES

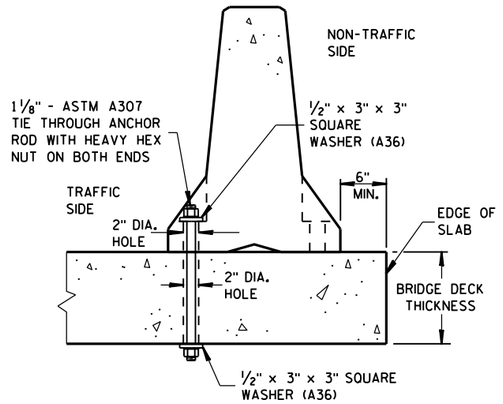
SEE SHEET E FOR WHEN TO ANCHOR. OTHER PARTS OF THE PLAN MAY SHOW ADDITIONAL LOCATIONS REQUIRING ANCHORING.

REMOVE ALL ANCHORS WHEN NO LONGER NEEDED. FILL CONCRETE PAVEMENTS, DECKS AND APPROACH SLABS WITH NON-SHRINK COMMERICAL GROUT FROM THE APPROVED PRODUCT LIST. FILL ASPHALT PAVEMENTS WITH ASTM D6690 TYPE II RUBBERIZED CRACK FILLER.

(1) 1⅛" DIAMENTER A307 THREADED ROD. ½" X 3" X 3" SQUARE PLATE WASHER WITH ASTM A36 STEEL. ASTM A563A HEAVY HEX NUT.

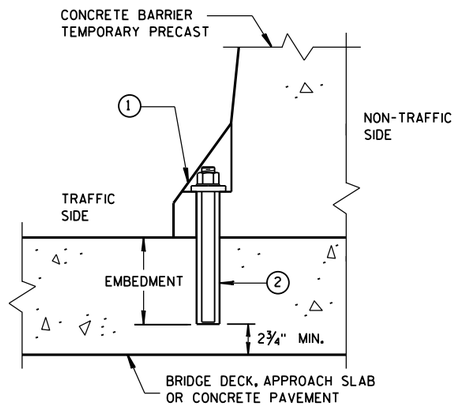
(2) ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 5¼" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.

(3) ASPHALT SURFACE SHOWN. CONTRACTOR MAY DRILL THROUGH CONCRETE PAVEMENT AND THAN DRIVE ASPHALT ANCHOR PIN.



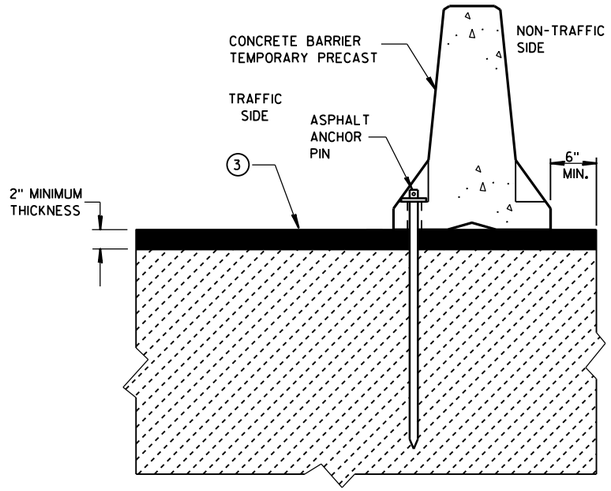
THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)

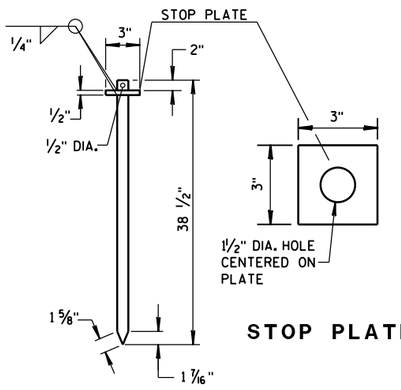


REMOVABLE ADHESIVE ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)



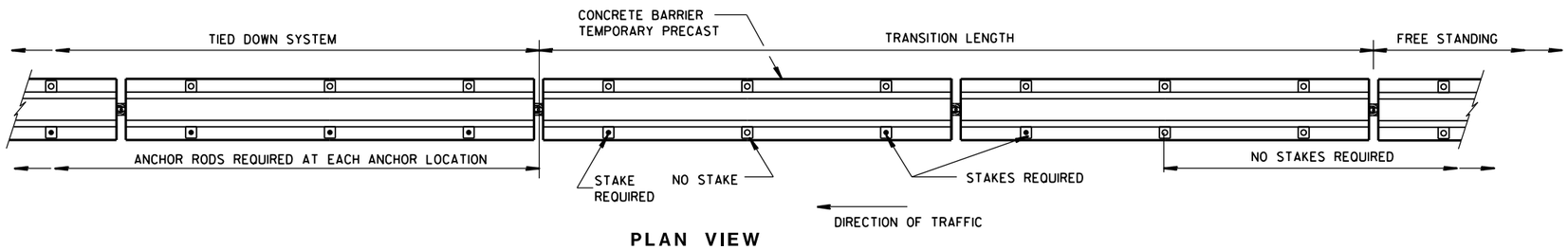
STAKE DOWN INSTALLATION FOR ASPHALTIC SURFACE



STOP PLATE

ASPHALT ANCHOR PIN

(ASTM A36 STEEL)



PLAN VIEW

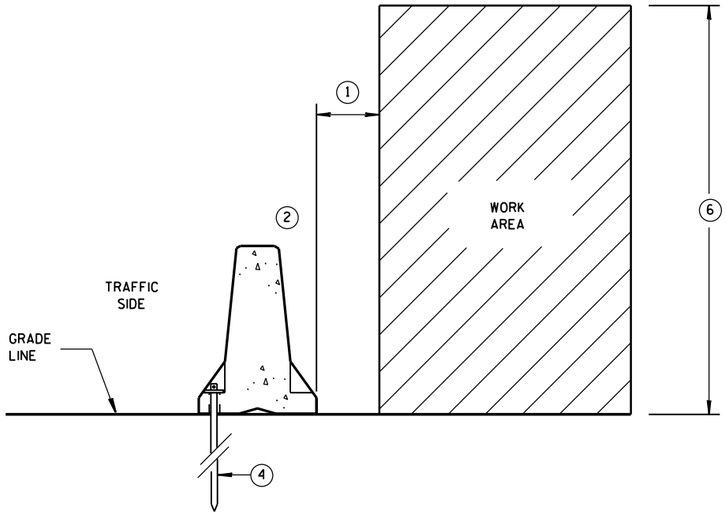
FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN.)

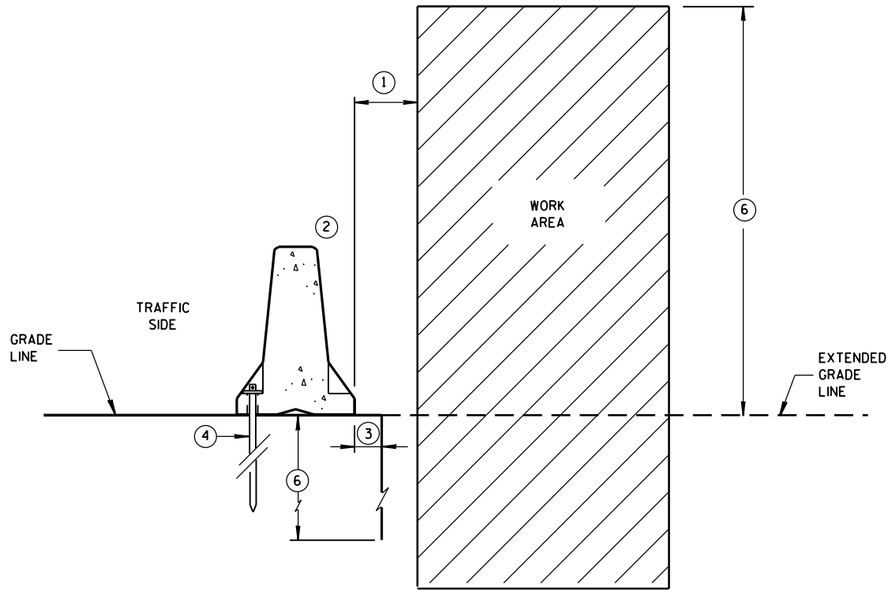
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 7-15d



ANCHORED BARRIER SPACE REQUIREMENTS FOR HAZARDS EXTENDED ABOVE THE GRADE LINE

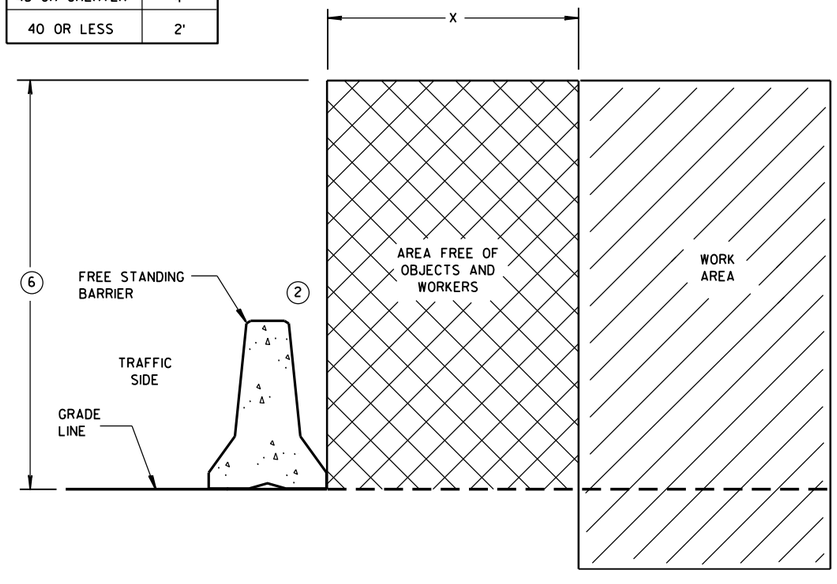


ANCHORED BARRIER SPACE REQUIREMENTS ON VERTICAL DROP OFFS

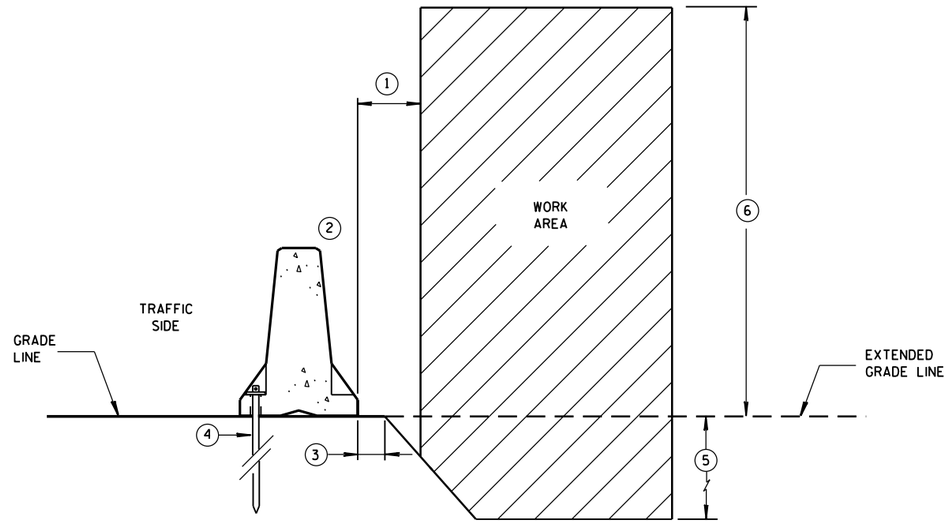
GENERAL NOTES

1. WHEN OBJECTS EXTEND ABOVE THE GRADE, A MINIMUM OF 1 FOOT IS REQUIRED FROM BACK OF BARRIER TO OBJECT. SEE OTHER DETAILS FOR FOR THE MINIMUM OFFSET FROM BACK OF BARRIER TO SLOPES OR VERTICAL DROPS.
2. OBJECTS ARE NOT TO BE PLACED ON, MOUNTED TO, OR LEANED AGAINST THE BARRIER WITHOUT PERMISSION OF THE PROJECT ENGINEER.
3. SEE OTHER DETAIL ON SHEET "D" FOR SPACE REQUIREMENTS.
4. SEE BOLT THROUGH DECK, REMOVABLE ADHESIVE ANCHOR, OR A STAKE DOWN FOR ASPHALTIC SURFACE TREATMENT DETAILS. ASPHALTIC ANCHOR SHOWN.
5. DEPTH OF 3 FEET OR MORE.
6. Y = 6'-6".

POSTED SPEED MPH	X
45 OR GREATER	4'
40 OR LESS	2'



FREE STANDING BARRIER SPACE REQUIREMENTS



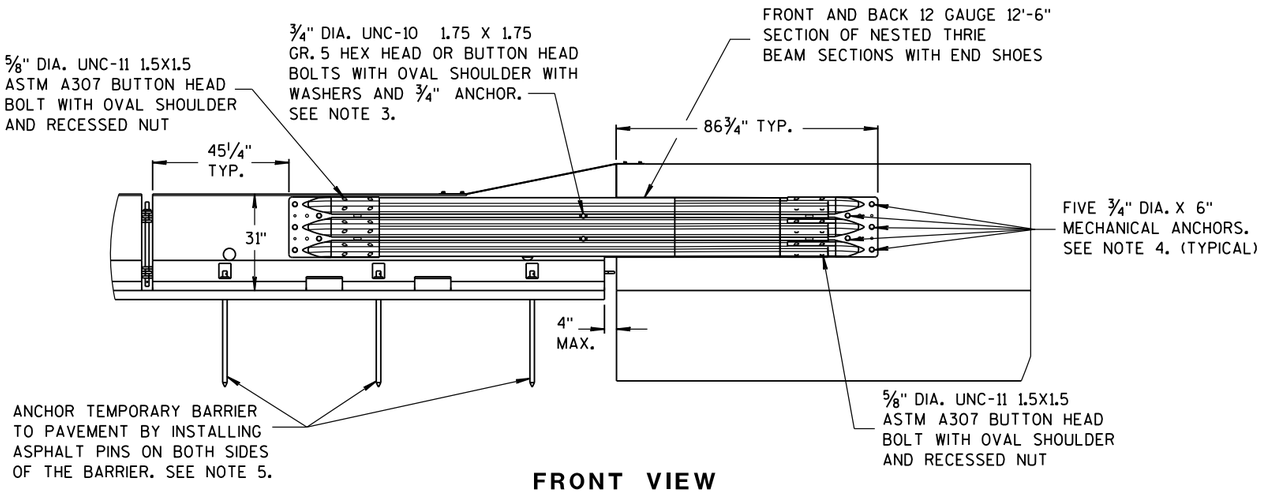
ANCHORED BARRIER SPACE REQUIREMENTS ON SLOPES

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

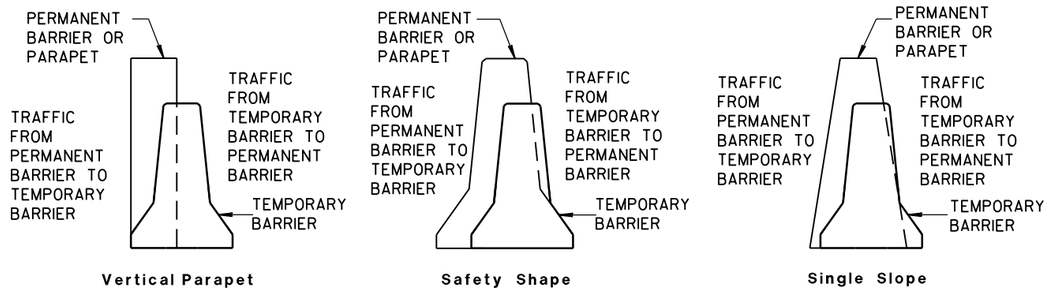
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 7-15e



FRONT VIEW

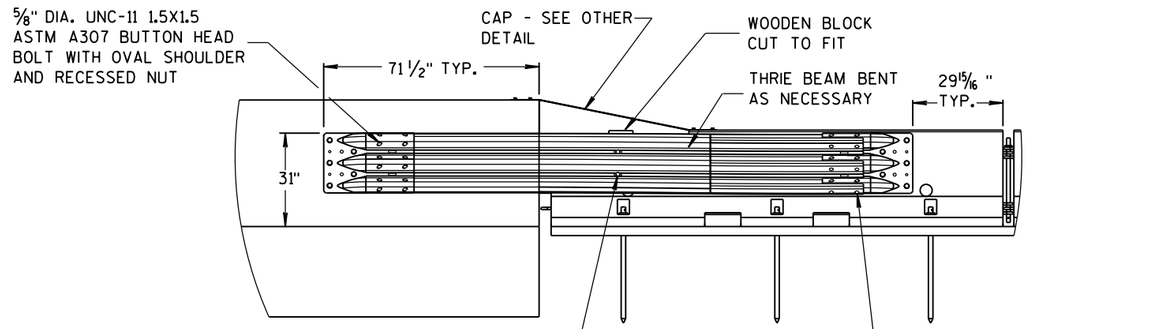


TEMPORARY BARRIER PLACEMENT FOR BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

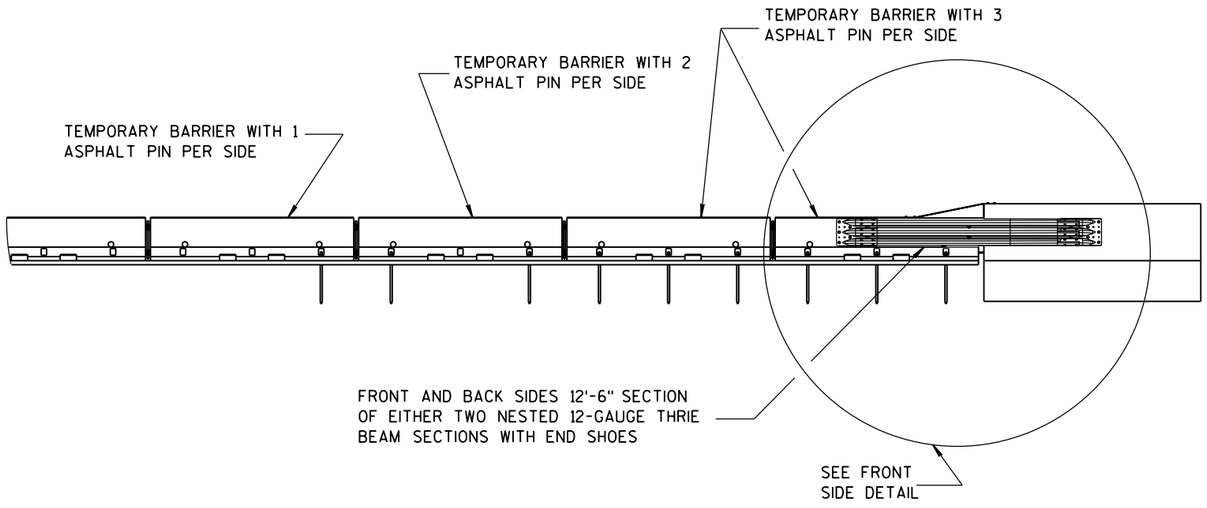
NOTES

NESTED THRIE BEAM IS REQUIRED ON BOTH SIDES OF THE TEMPORARY BARRIER FOR ALL INSTALLATIONS REGARDLESS OF TRAFFIC.

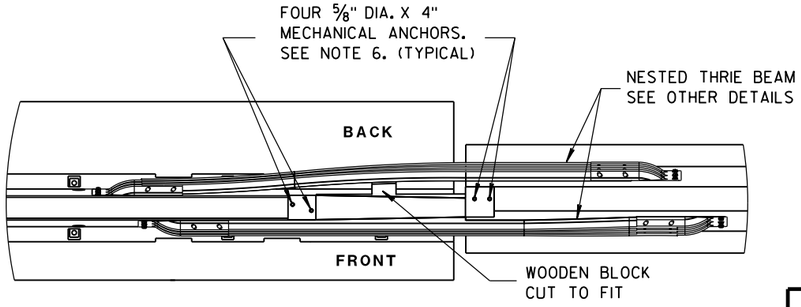
1. CAP END PLATE PLACED FLUSH WITH UPSTREAM END OF PERMANENT BARRIER OR PARAPET.
2. THRIE BEAM PIECES ARE OFFSET 15 1/4" TO PREVENT INTERFERENCE FROM THE ANCHORS ON OPPOSING SIDES.
3. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 9.48 KIPS AND ULTIMATE SHEAR LOAD 10.48 KIPS.
4. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 17.9 KIPS AND ULTIMATE SHEAR LOAD 21.96 KIPS.
5. MAY BE USED ON CONCRETE OR ASPHALT PAVEMENTS. ASPHALT OPTION SHOWN. FOR CONCRETE OPTION SEE OTHER DETAILS.
6. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 12.14 KIPS AND ULTIMATE SHEAR LOAD 17.5 KIPS.



BACK VIEW



FRONT VIEW



PLAN VIEW

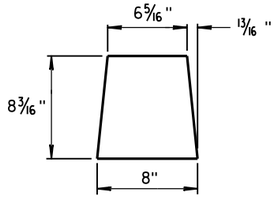
BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

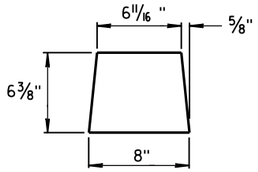
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6

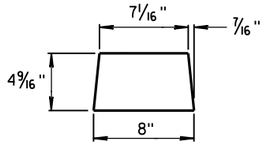
S.D.D. 14 B 7-15f



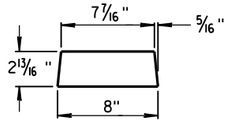
GUSSET 1



GUSSET 2

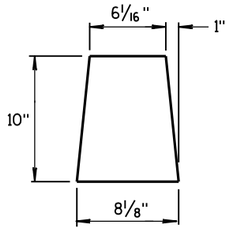


GUSSET 3

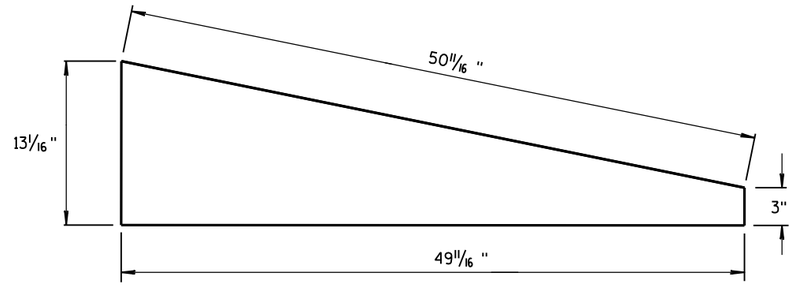


GUSSET 4

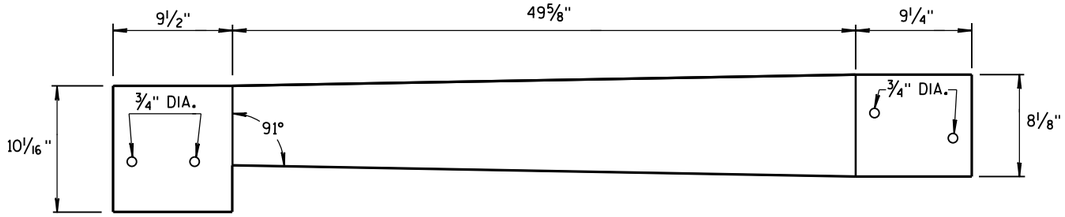
GUSSETS

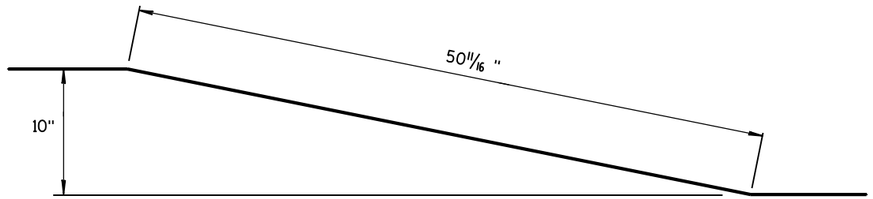


END PLATE



SIDE PLATE

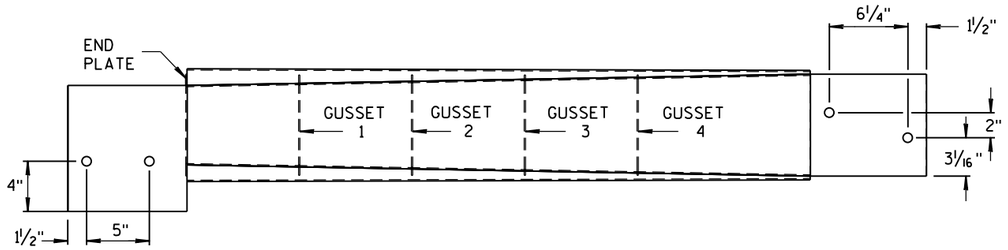


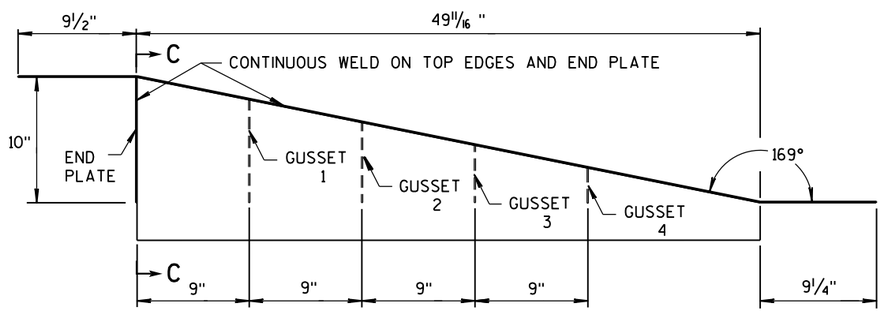


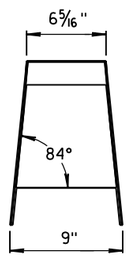
TOP PLATE

SIDE, TOP AND END PLATES FOR CAP FROM TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 GALVANIZED STEEL.







SECTION C-C

NOTES

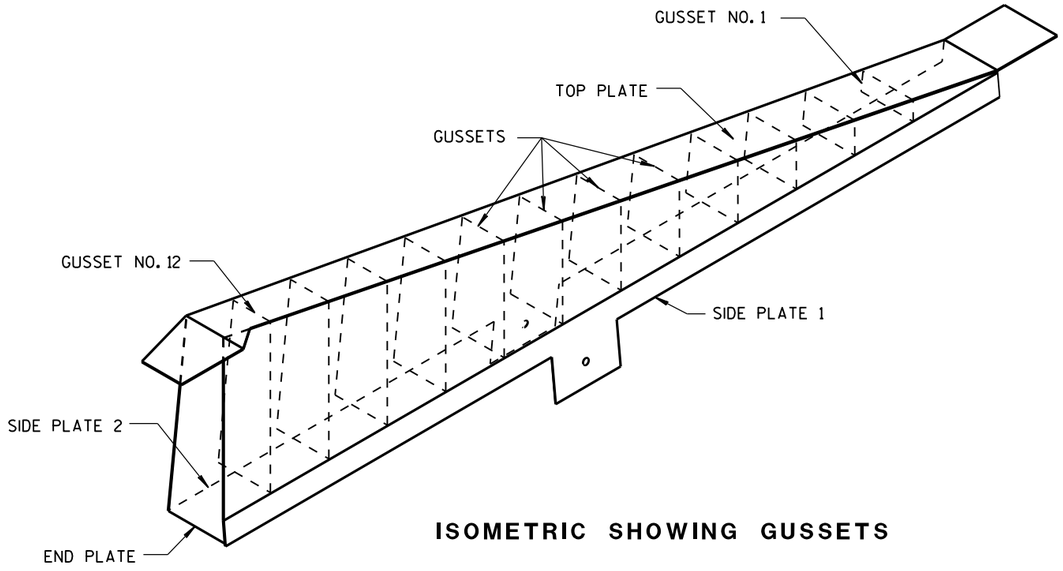
1. FOUR GUSSETS AND END PLATE ARE STITCH WELDED ON THREE SIDES.
2. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE, AND GUSSETS.

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

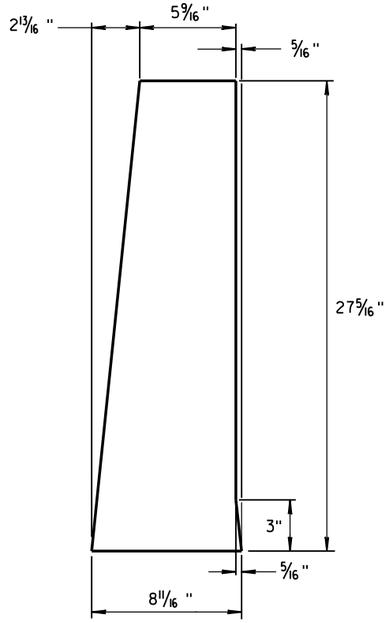
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6
S.D.D. 14 B 7-15g

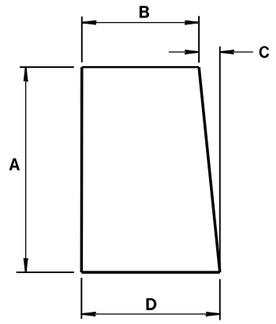


ISOMETRIC SHOWING GUSSETS



END PLATE

1/8" STEEL PLATE



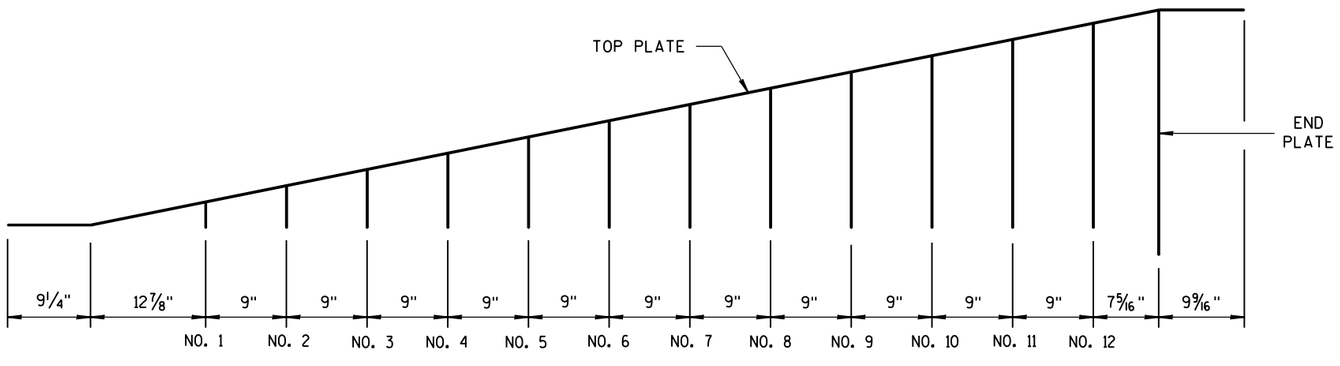
GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS				
GUSSET NO.	A	B	C	D
1	2 7/8"	7 3/4"	1/4"	8
2	4 11/16 "	7 9/16 "	1/2"	8
3	6 1/2"	7 3/8"	11/16 "	8 1/16 "
4	8 5/16 "	7 3/16 "	7/8"	8 1/16 "
5	10 1/8"	7"	1 1/16 "	8 1/16 "
6	11 15/16 "	6 13/16 "	1 1/4"	8 1/16 "
7	13 3/4"	6 5/8"	1 7/16 "	8 1/16 "
8	15 9/16 "	6 7/16 "	1 9/16 "	8 1/16 "
9	17 3/8"	6 1/4"	1 13/16 "	8 1/16 "
10	19 3/16 "	6 1/16 "	1 15/16 "	8 1/16 "
11	21"	5 7/8"	2 3/16 "	8 1/16 "
12	22 13/16 "	5 11/16 "	2 5/16 "	8 1/16 "

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.



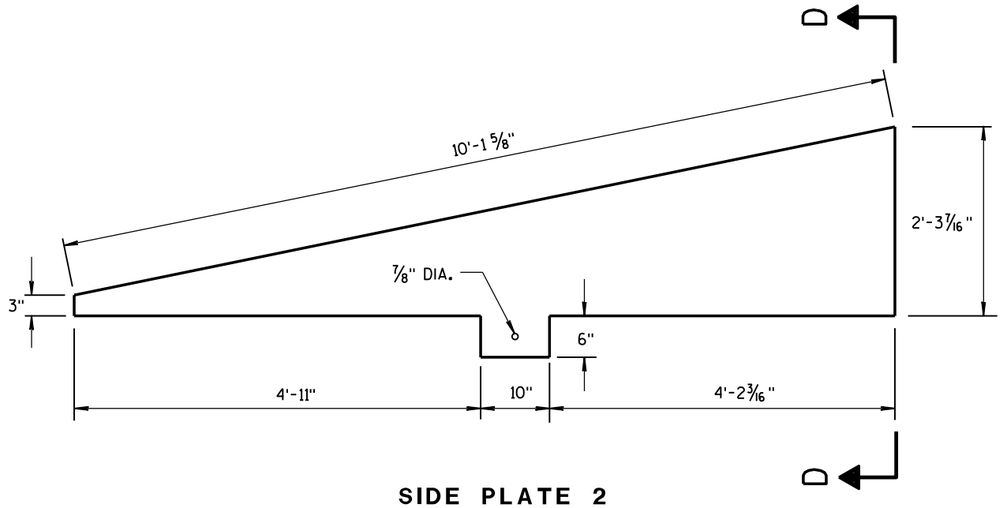
GUSSET LOCATION

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

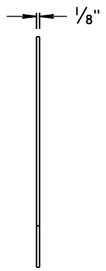
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

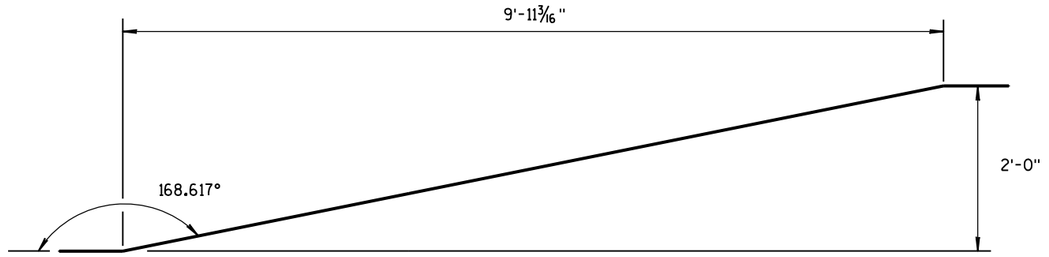
6
S.D.D. 14 B 7-15h



SIDE PLATE 2

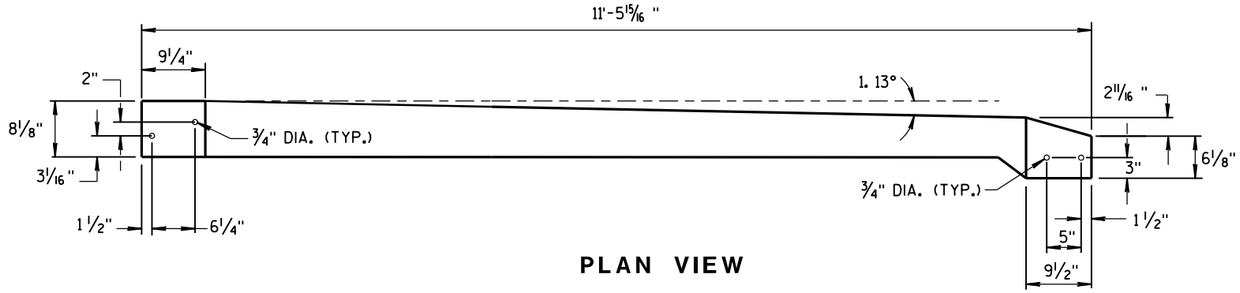


END VIEW



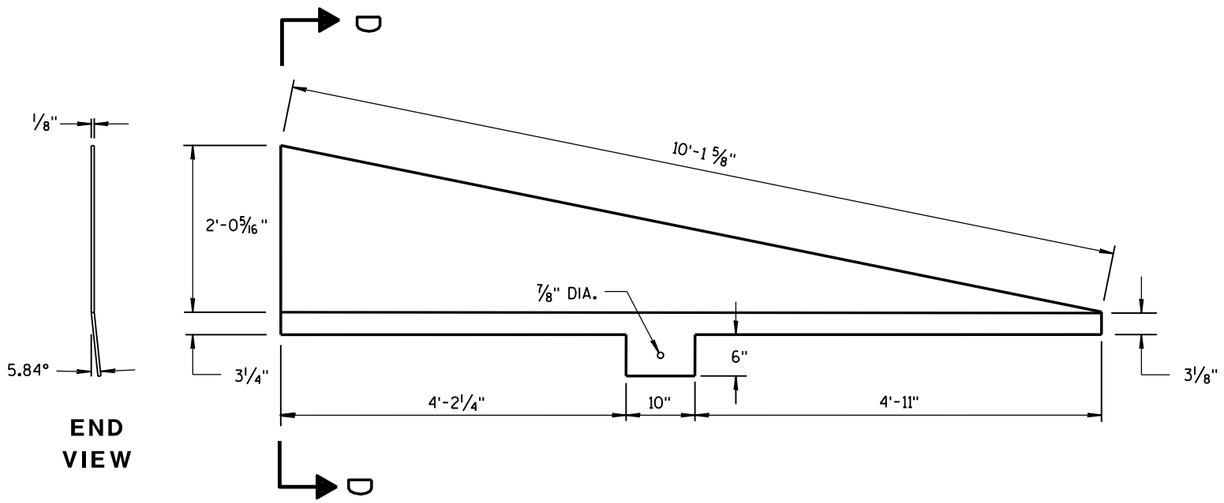
SIDE VIEW

TOP PLATE



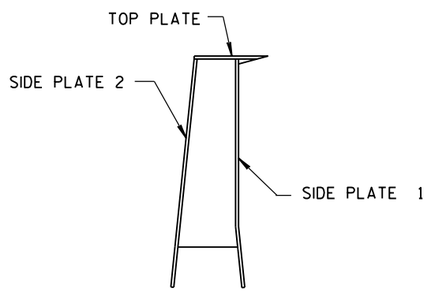
PLAN VIEW

TOP PLATE



END VIEW

SIDE PLATE 1



SECTION D-D

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERV
254
ENT
FHWA

6

S.D.D. 14 B 7-15i

6

S.D.D. 14 B 7-15i

GENERAL NOTES

(1) W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS. APPROVED PLASTIC BLOCKOUT DESIGNS MAY VARY FROM THIS TYPICAL DETAIL WHEN USED IN CONJUNCTION WITH STEEL POSTS.

DO NOT MIX STEEL POSTS AND WOOD POSTS IN A SINGLE INSTALLATION.

(2) USE STRUCTURAL STEEL POSTS CONFORMING TO ASTM A 36. GALVANIZED POSTS ACCORDING TO AASHTO M 111. EITHER SET THE POSTS IN DRILLED HOLES OR DRIVE TO GRADE. REMOVE MUSHROOMING CAUSED BY DRIVING AND REPAIR DAMAGED SPELTER COATING ON GALVANIZED POSTS.

(3) INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(4) USE EITHER WOOD OR APPROVED PLASTIC BLOCKOUTS ON WOOD POSTS.

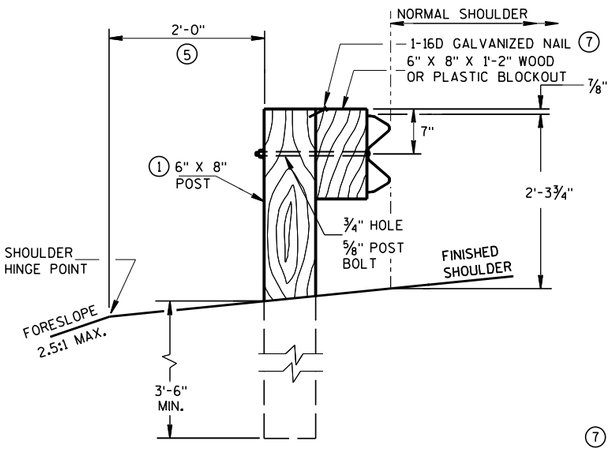
(5) IF THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING, W BEAM (LHW).

(6) IF ROCK IS ENCOUNTERED DURING EXCAVATION, THE ENGINEER MAY APPROVE USING A 12 INCH DIAMETER POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE APPROXIMATELY 2½ INCHES DEEP. CUT THE POSTS TO LENGTH AND PLACE IN YHE HOLE. BACKFILL WITH MATERIAL EXCAVATED FROM THE HOLE AND COMPACT ADEQUATEY.

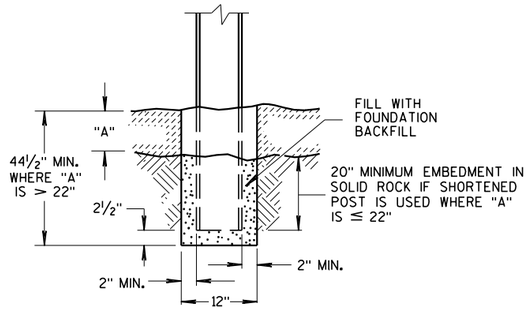
(7) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

INSTALL BEAM GUARD SECTIONS AND ALL NECESSARY HARDWARE ACCORDING TO THE APPLICABLE PLAN AND CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS.

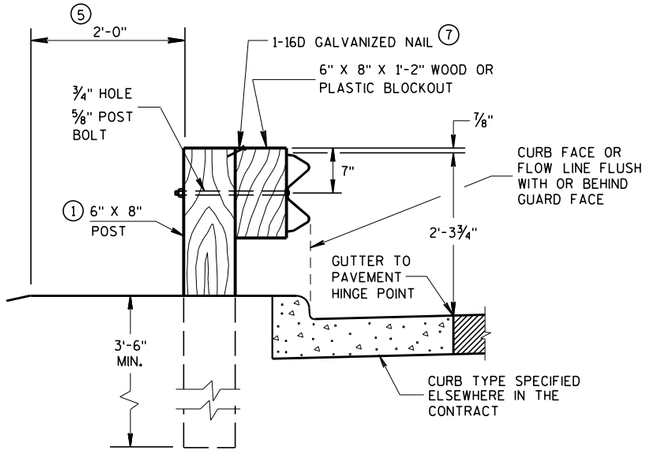
ALL DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES EXCEPT WHERE ALLOWABLE TOLERANCES ARE SHOWN.



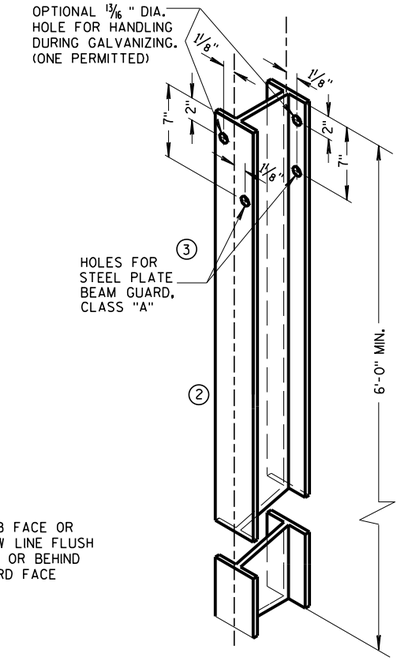
END VIEW
LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



END VIEW
SETTING STEEL OR WOOD POST IN ROCK (6)

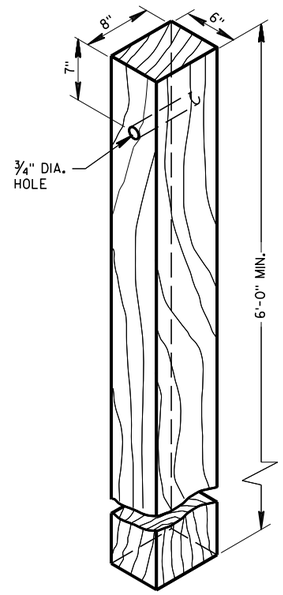


END VIEW
LOCATED ALONG A CURBED ROADWAY

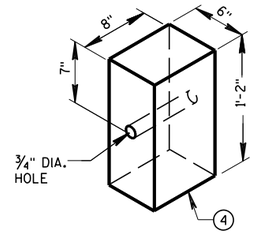


STEEL POST &
HOLE PUNCHING DETAIL
(W6 X 9) (1)

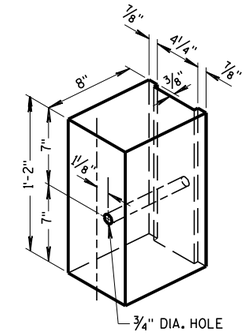
ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED



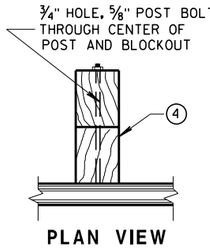
WOOD POST
(6"X8") NOMINAL



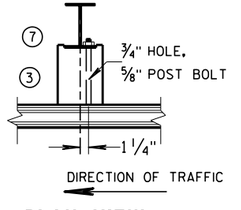
WOOD OR PLASTIC
BLOCKOUT FOR
WOOD POSTS



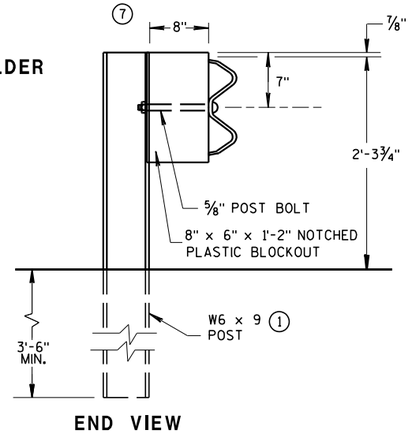
TYPICAL NOTCHED
PLASTIC BLOCKOUT
FOR STEEL POSTS (1)



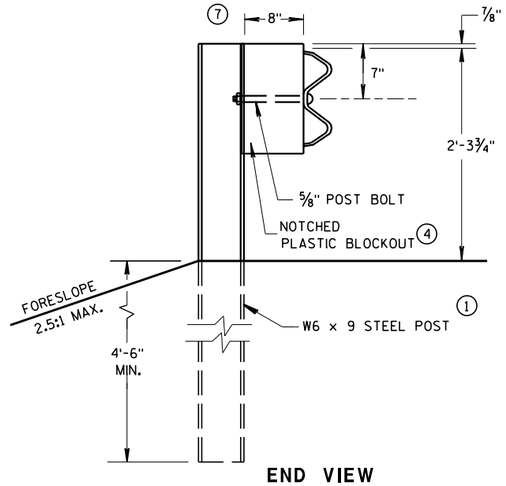
PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



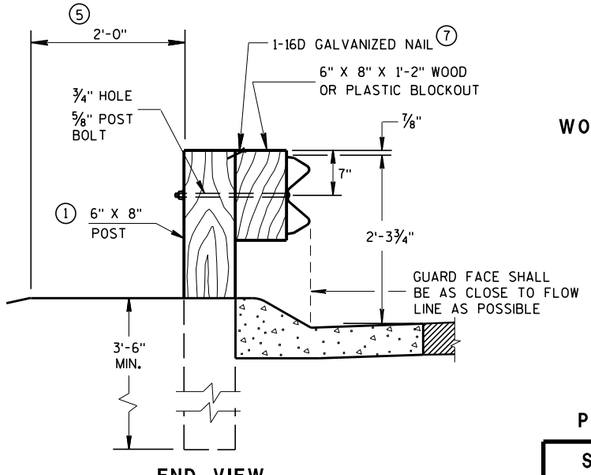
PLAN VIEW
STEEL POST, NOTCHED
PLASTIC BLOCKOUT & BEAM



END VIEW
STEEL POST & NOTCHED
PLASTIC BLOCKOUT ALTERNATIVE
STANDARD INSTALLATION



END VIEW
LONGER POST AT HALF
POST SPACING W BEAM
(LHW)



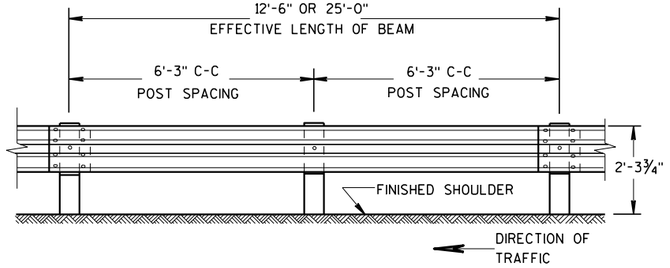
END VIEW
LOCATED ALONG A
MOUNTABLE CURBED ROADWAY

TYPICAL INSTALLATION OF STEEL PLATE BEAM GUARD

STEEL PLATE BEAM GUARD,
CLASS "A"
INSTALLATION & ELEMENTS

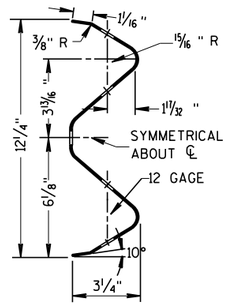
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
S.D.D. 14 B 15-11a

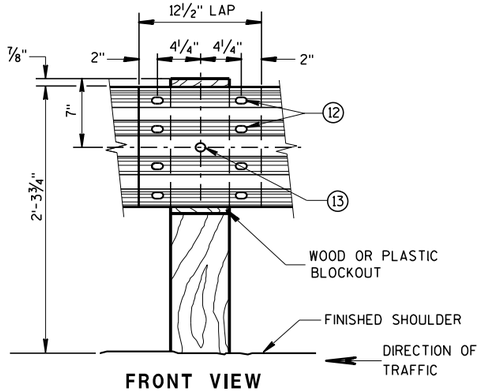


FRONT VIEW

POST SPACING STANDARD INSTALLATION



SECTION THRU W BEAM



FRONT VIEW

BEAM SPLICE AT WOOD POST AND POST MOUNTING DETAIL

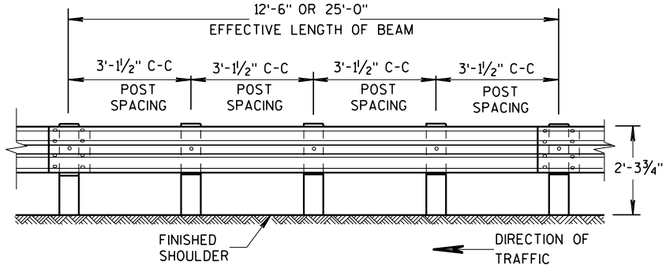
GENERAL NOTES

FURNISH GUARDRAIL DEFLECTORS FROM APPROVED PRODUCTS LIST.

(9) DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINA. START REFLECTORS AT POST #9 AND SPACE EVENLY EVERY 100 FEET (MAX.) TO THE END OF GUARDRAIL RUN, USING A MINIMUM OF 3 REFLECTORS.

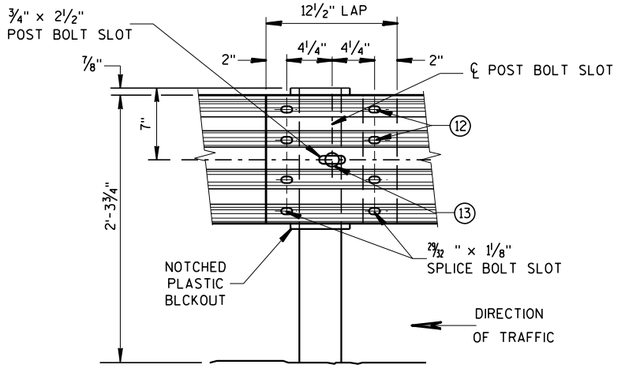
(12) 8 -⅝" ϕ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.

(13) ⅝" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH ⅝" DIA. F844 FLAT WASHER UNDER NUT.



FRONT VIEW

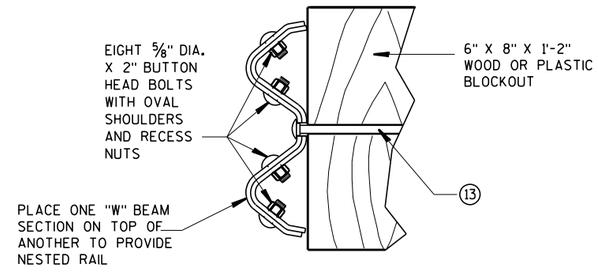
POST SPACING FOR LONGER POST AT HALF POST SPACING W BEAM (LHW)



FRONT VIEW

BEAM SPLICE AT STEEL POST

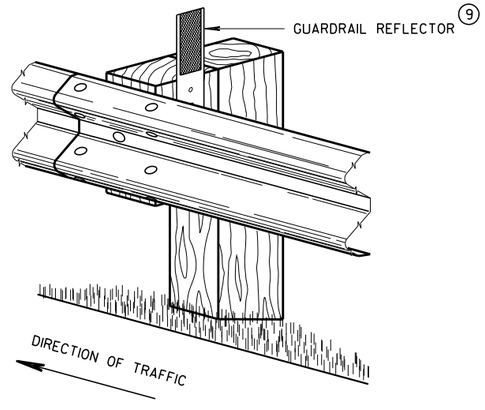
TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD



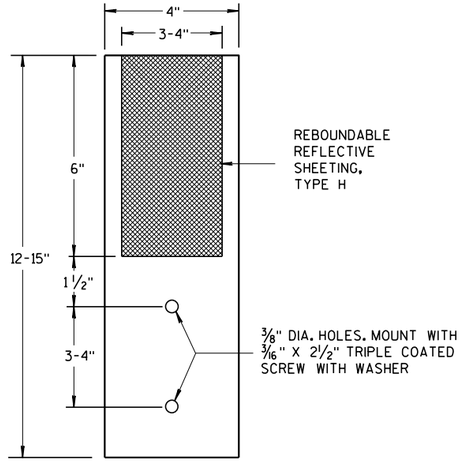
NESTED W BEAM (NW)

USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

* USE DOUBLE SIDED WHITE GUADRAIL REFLECTORS ON ROADWAYS WITH BI-DIRECTIONAL TRAFFIC (NO MEDIAN). USE SINGLE SIDED WHITE (RIGHT SIDE) AND SINGLE SIDED YELLOW (LEFT SIDE) ON ROADWAYS WITH MEDIAN SEPARATION.



4" X 12" GUARDRAIL REFLECTOR DETAIL AND TYPICAL INSTALLATION *



4"x 12" GUARDRAIL REFLECTOR

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

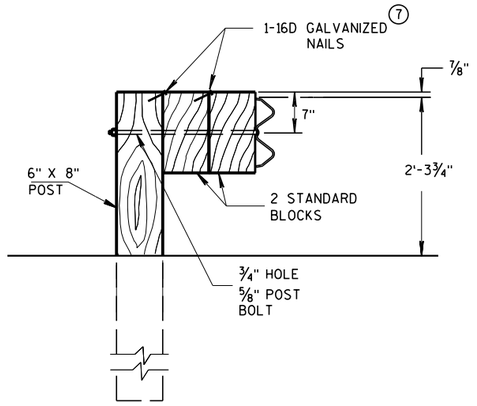
STATE OF WISCO 256
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 15-11b

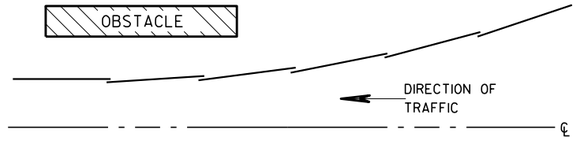
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S.D.D. 14 B 15-11b

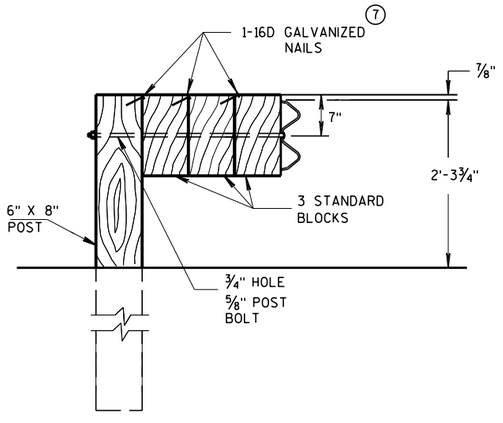


DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS WITHIN A BARRIER RUN IS UNLIMITED

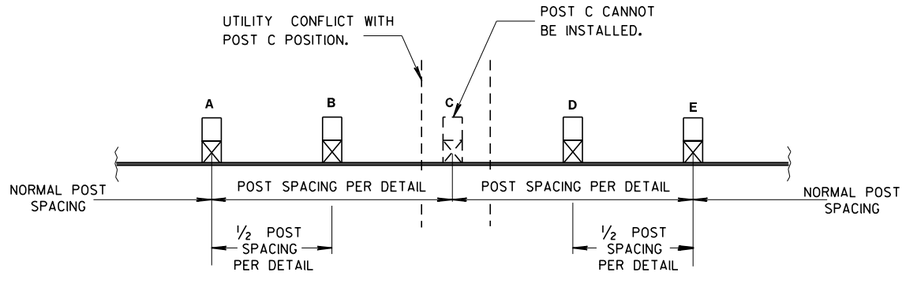


PLAN VIEW
BEAM LAPPING DETAIL



DETAIL FOR TRIPLE BLOCKS

TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES PREVENT THE POST FROM BEING INSTALLED.

DO NOT USE EXTRA BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS UNIT SUPERVISOR
257
FHWA

6

S.D.D. 14 B 15-11c

6

S.D.D. 14 B 15-11c

(1) WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

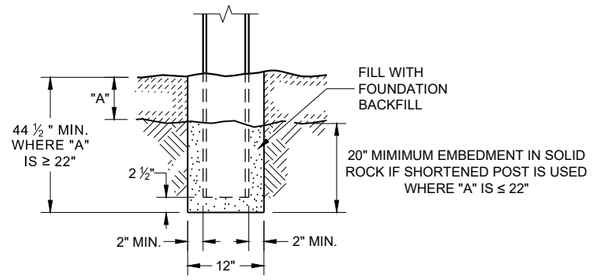
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

(4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

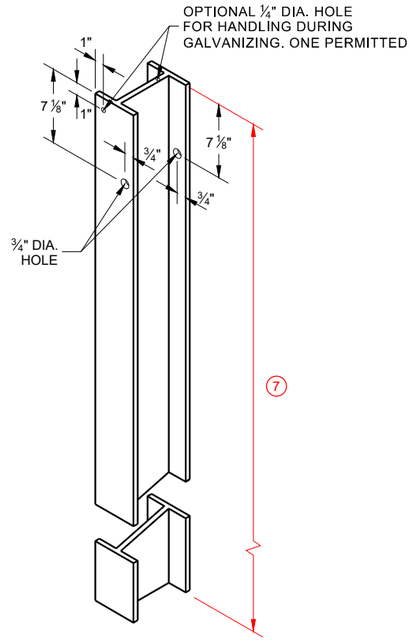
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ±1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

(6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

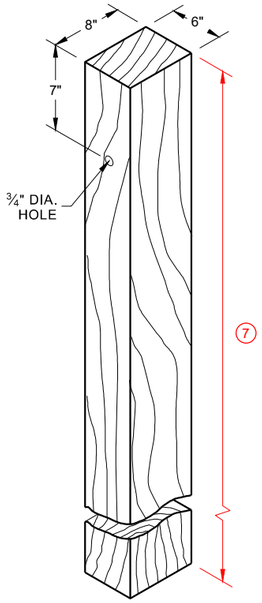
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



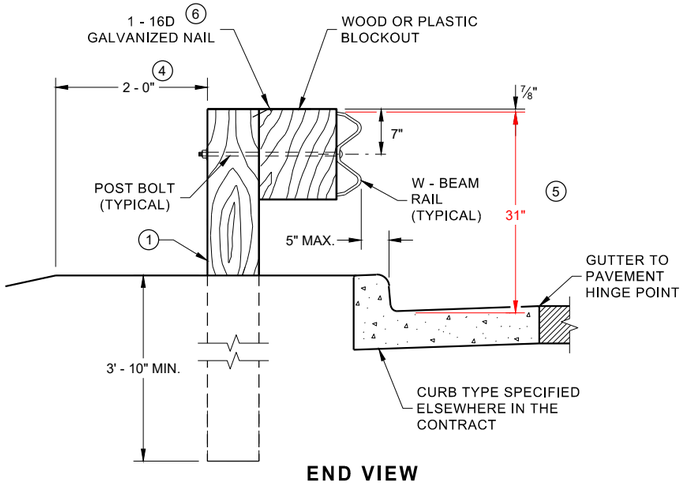
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



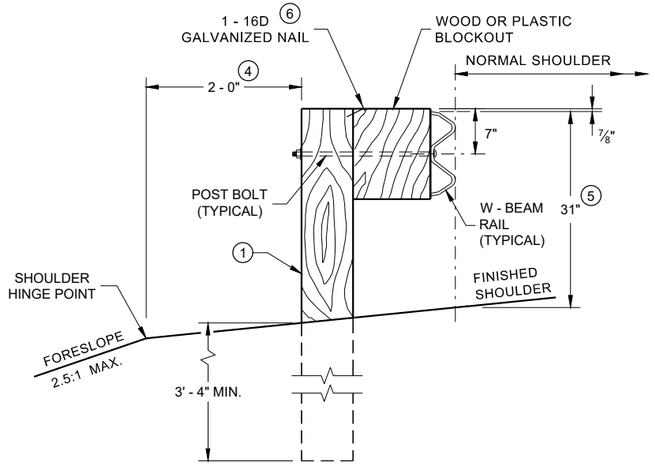
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



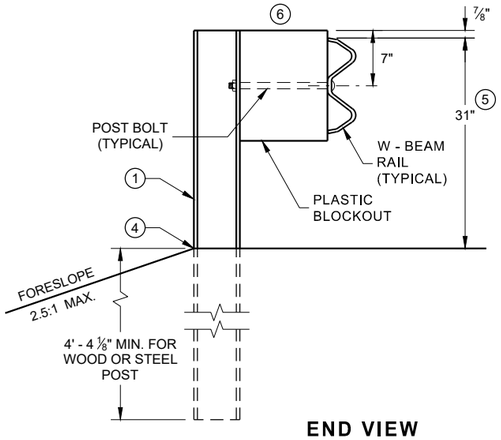
WOOD POST (6" X 8") NOMINAL (1)



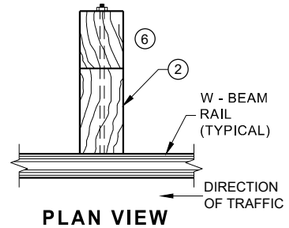
END VIEW
LOCATED ALONG A CURBED ROADWAY



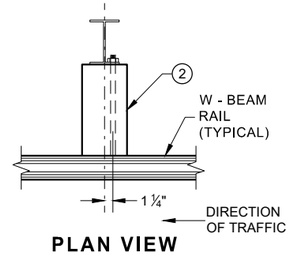
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



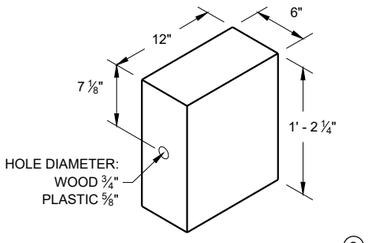
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



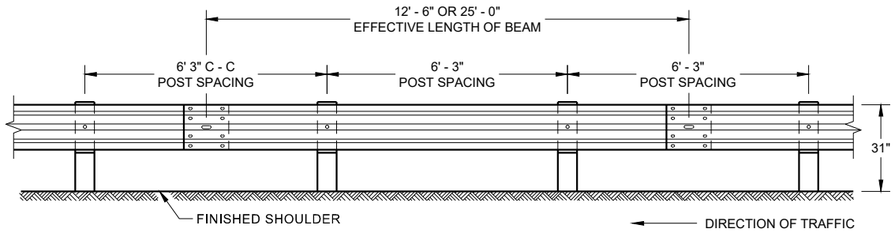
WOOD OR PLASTIC BLOCKOUT (2)

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

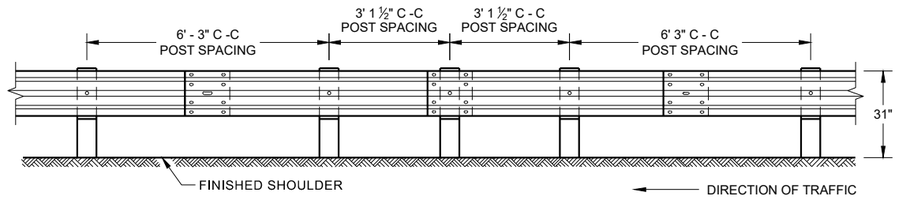
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B42 - 06a

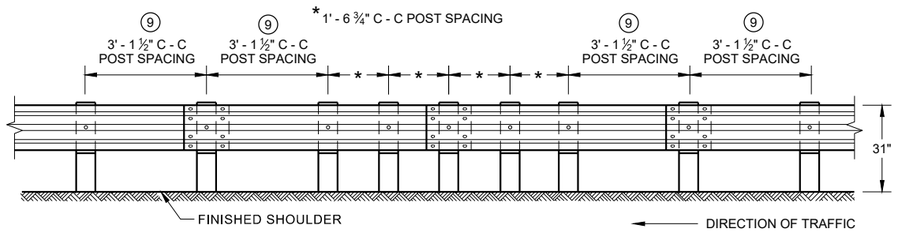
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SDD 14B42 - 06a



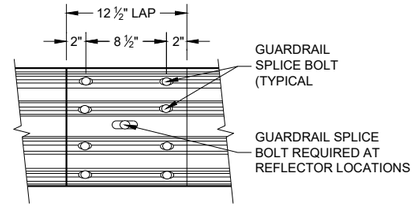
FRONT VIEW
POST SPACING STANDARD INSTALLATION



FRONT VIEW
HALF POST SPACING (HS) AND
HALF POST SPACING WITH LONGER POSTS (K)



FRONT VIEW
QUARTER POST SPACING (QS)



FRONT VIEW
MID-SPAN BEAM SPLICE

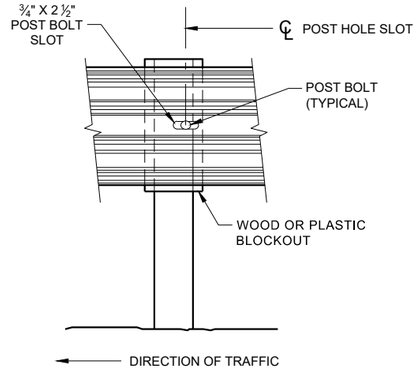
GENERAL NOTES

⑧ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.

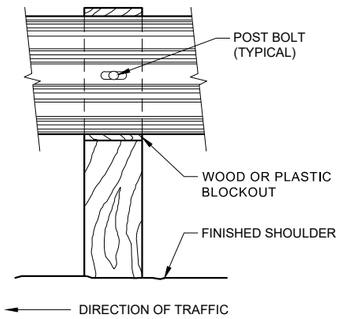
⑨ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A ¾" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

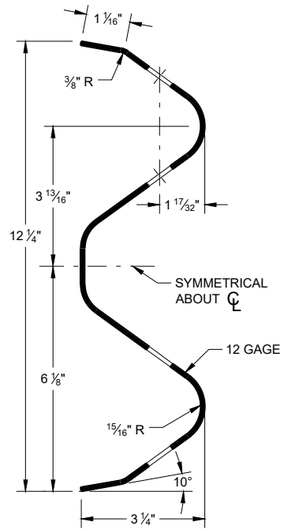
GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.



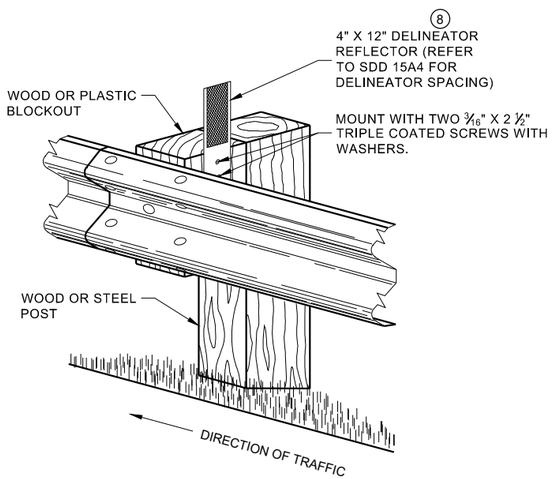
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



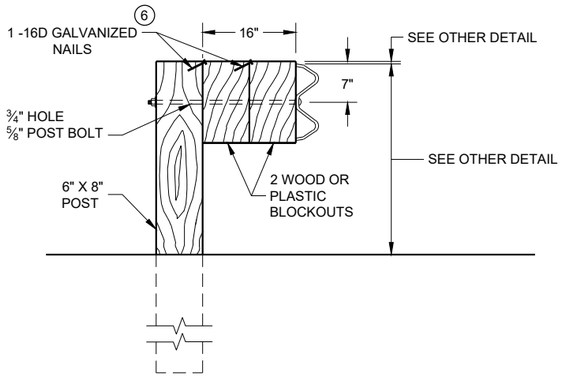
ONE SIDED REFLECTOR DETAIL
AND TYPICAL INSTALLATION

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

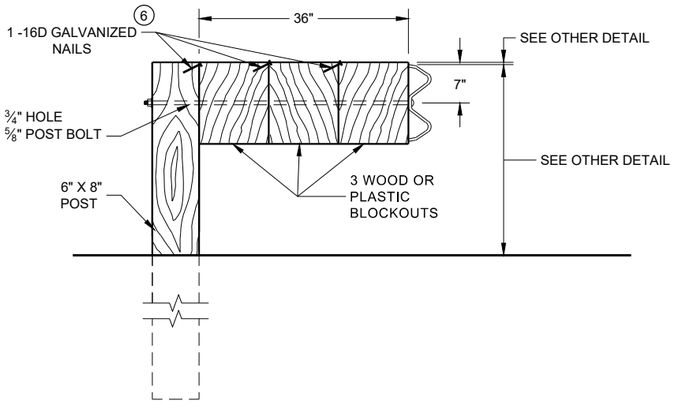
6

SDD 14B42 - 06b



DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.



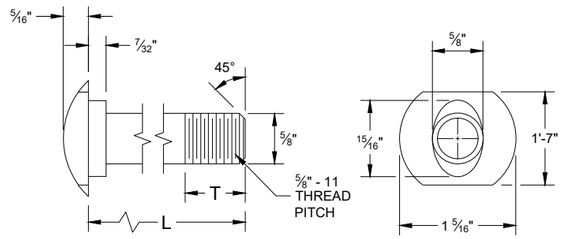
DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

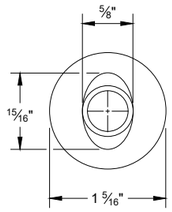
NOTE:

1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3⁄16".
2. IF THE BOLT EXTENDS MORE THAN ¼" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

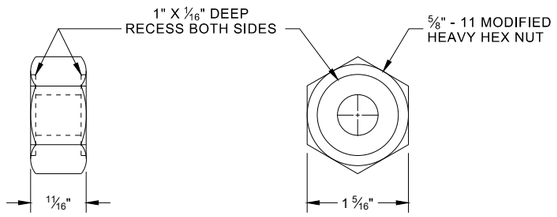


POST BOLT TABLE

L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1⁄16"
18"	4"
21"	4 1⁄16"
25"	4"

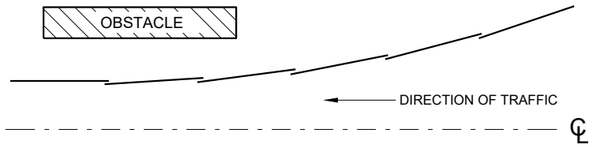


ALTERNATE BOLT HEAD

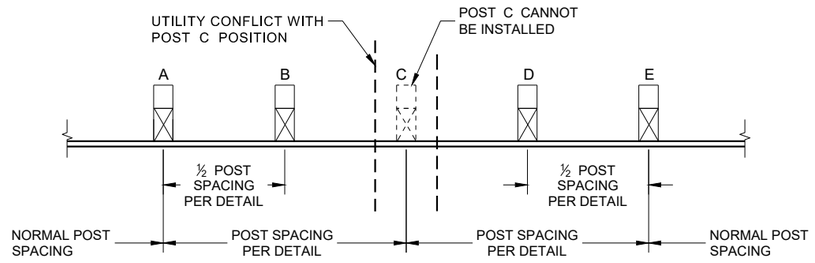


POST BOLT, SPLICE BOLT AND RECESS NUT

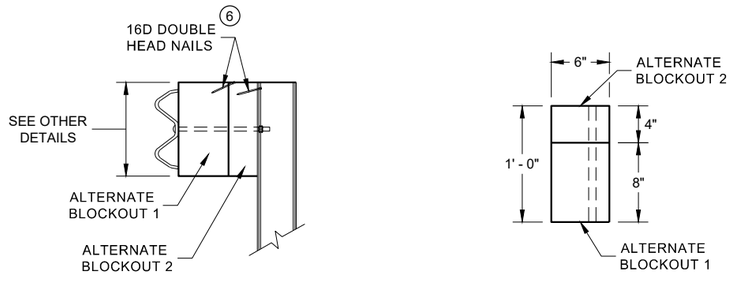
(6) WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.



PLAN VIEW
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



SIDE VIEW

PLAN VIEW

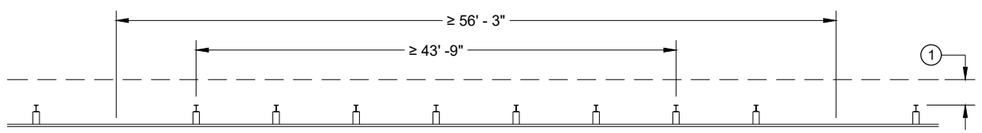
ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

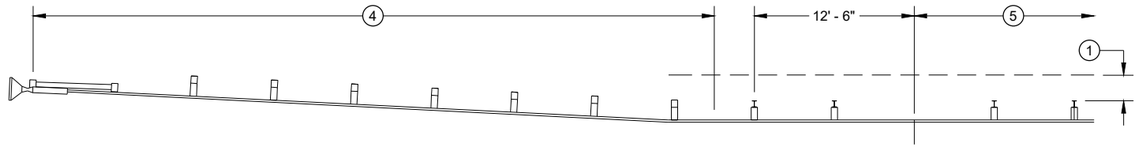
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

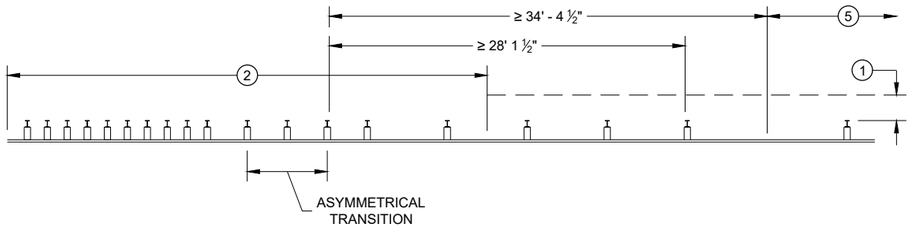
SDD 14B42 - 06c



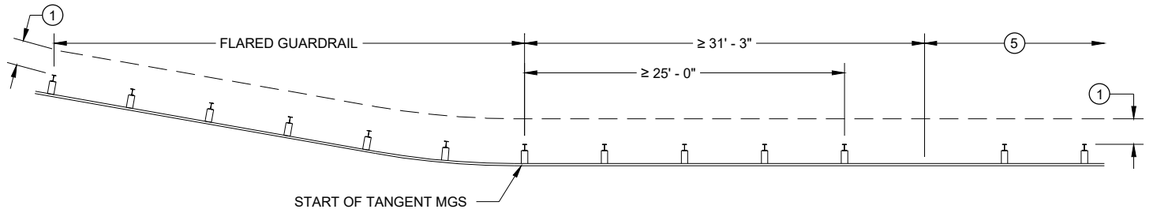
MISSING POST IN NORMAL BEAM GUARD RUN



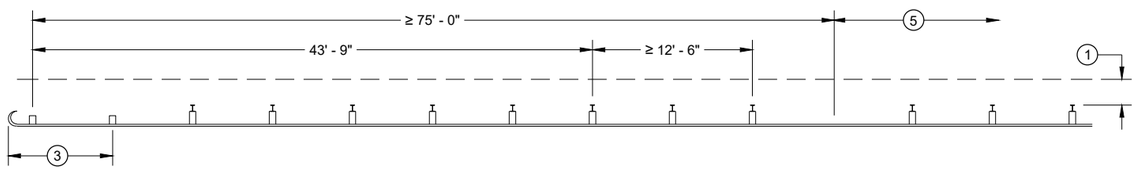
MISSING POST IN NORMAL BEAM GUARD RUN NEAR EAT



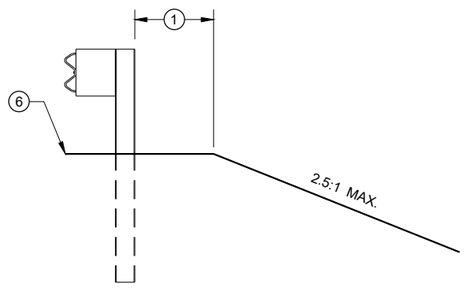
MISSING POST NEAR APPROACH THRIE BEAM TRANSITION



MISSING POST IN NORMAL BEAM GUARD RUN NEAR FLARED BEAM GUARD



MISSING POST IN NORMAL BEAM GUARD RUN NEAR TYPE 2 TERMINAL



CROSS SECTION VIEW

1. MINIMUM OF 2 FEET OF GRADING BEHIND POST.
2. SEE SDD 14B45 FOR MORE DETAILS.
3. SEE SDD 14B47 FOR MORE DETAILS.
4. SEE SDD 14B44 FOR MORE DETAILS.
5. SEE MISSING POST IN NORMAL BEAM GUARD RUN FOR DISTANCE TO NEXT MISSING POST AND AREA FOR WELL DRAINED, COMPACTED SOILS.
6. SEE PLAN FOR SHOULDER DESIGN.

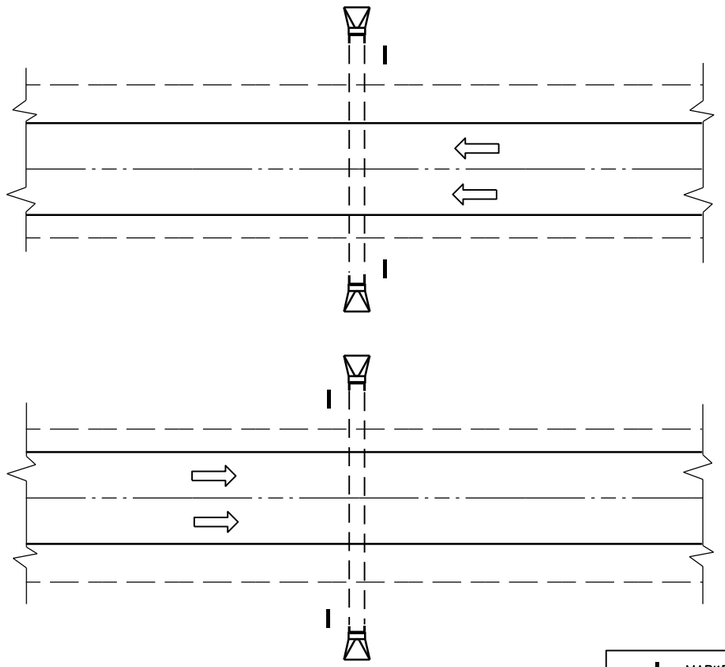
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE UNIT SUPERVISOR
FHWA

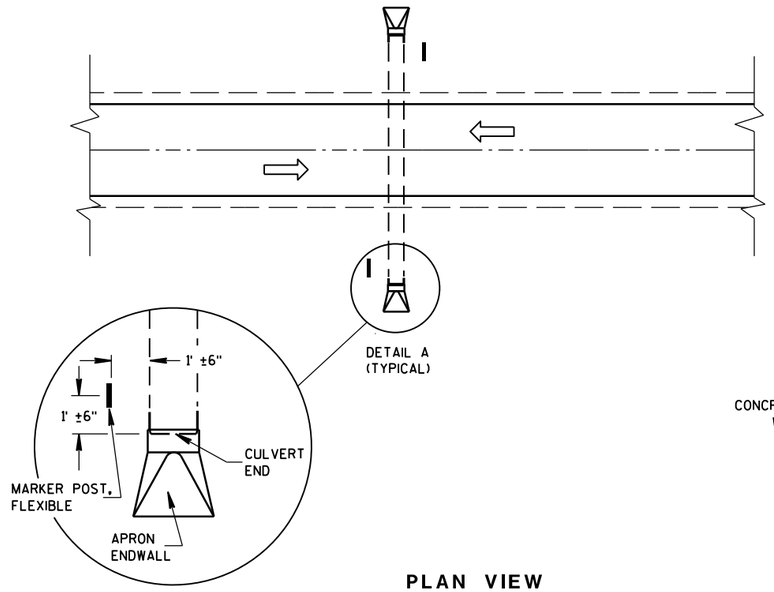
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SDD 14B42 - 06d



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

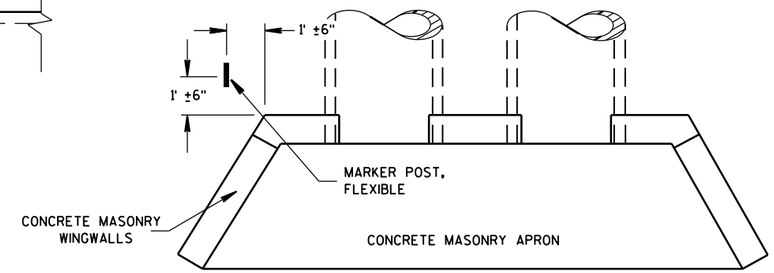
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

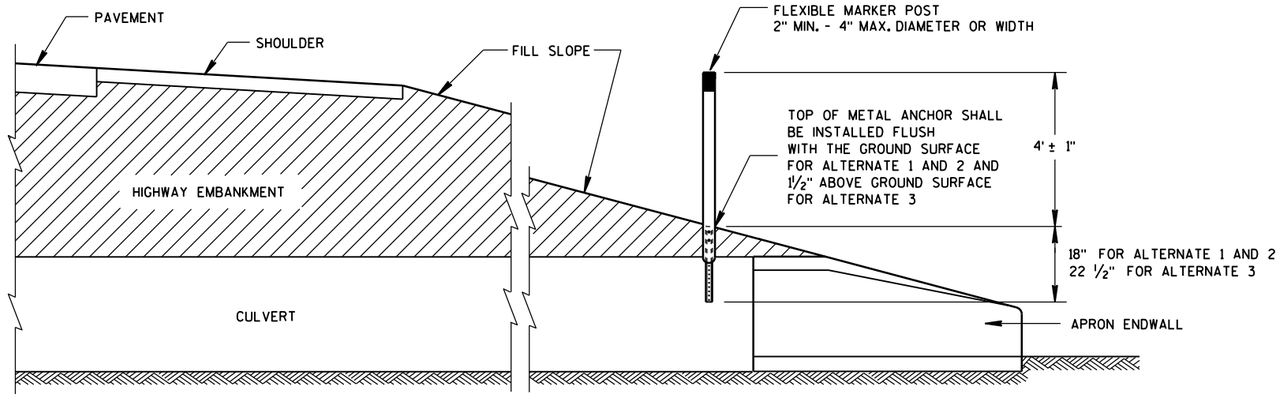
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST
FOR CULVERT END

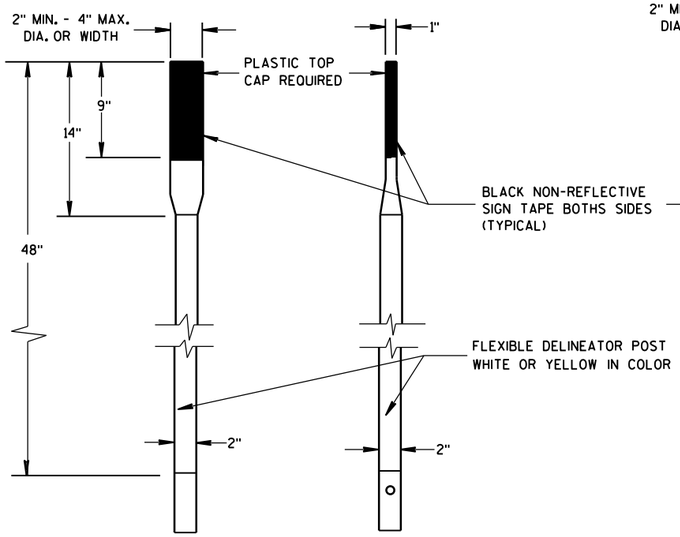
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

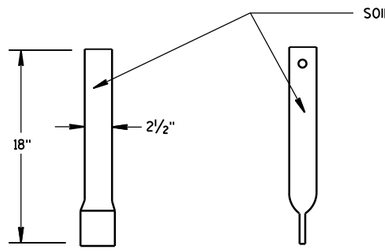
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S.D.D. 15 A 3-2a

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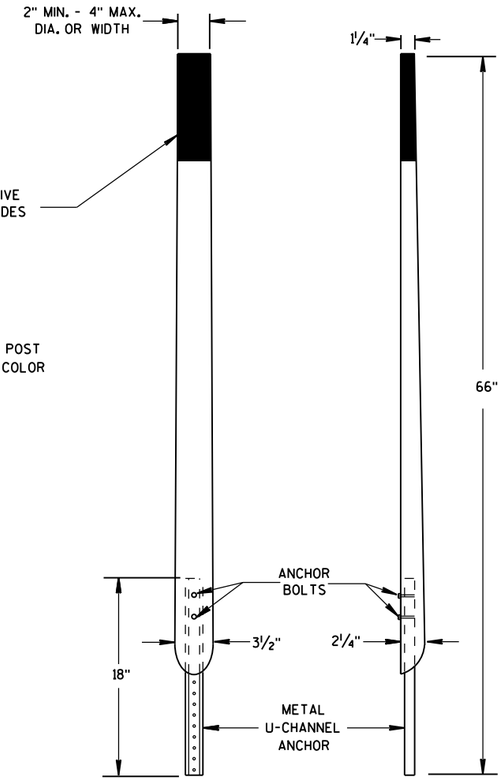
S.D.D. 15 A 3-2a





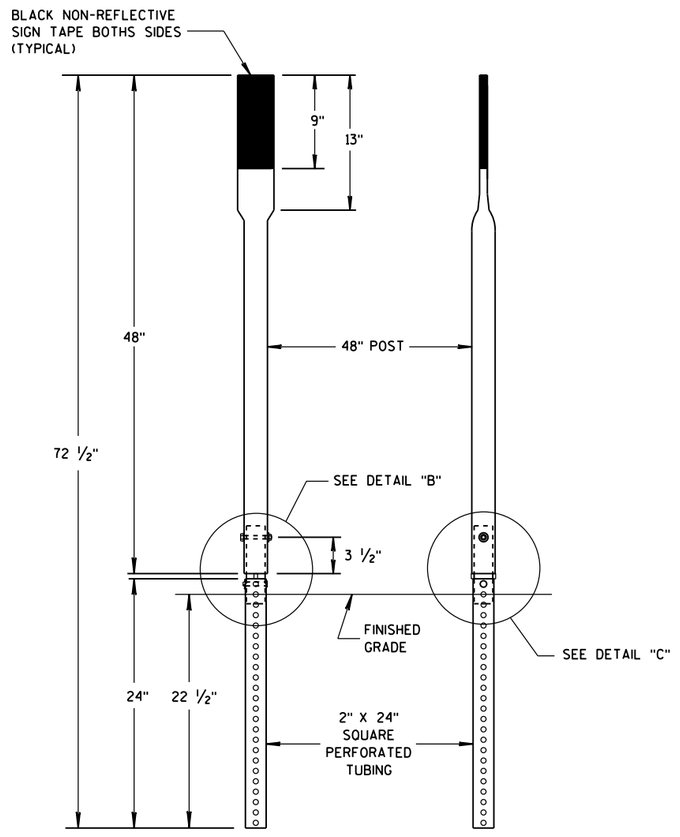
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

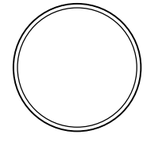
ALTERNATE 2



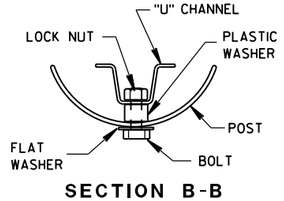
FRONT VIEW SIDE VIEW

ALTERNATE 3

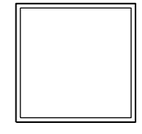
FLEXIBLE MARKER POSTS



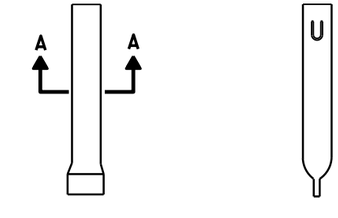
SECTION A-A



SECTION B-B

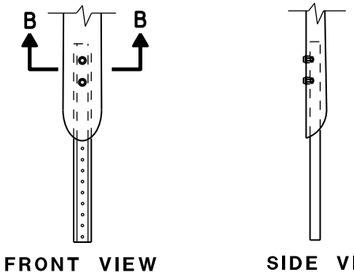


SECTION C-C



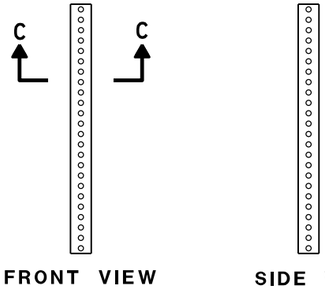
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

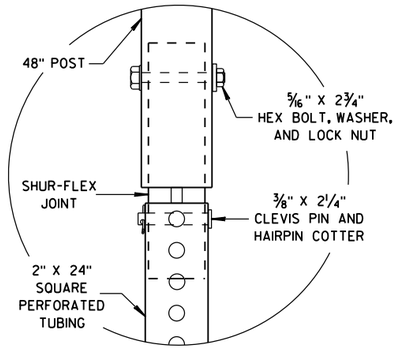
ALTERNATE 2



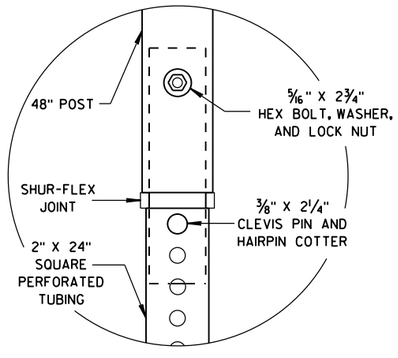
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

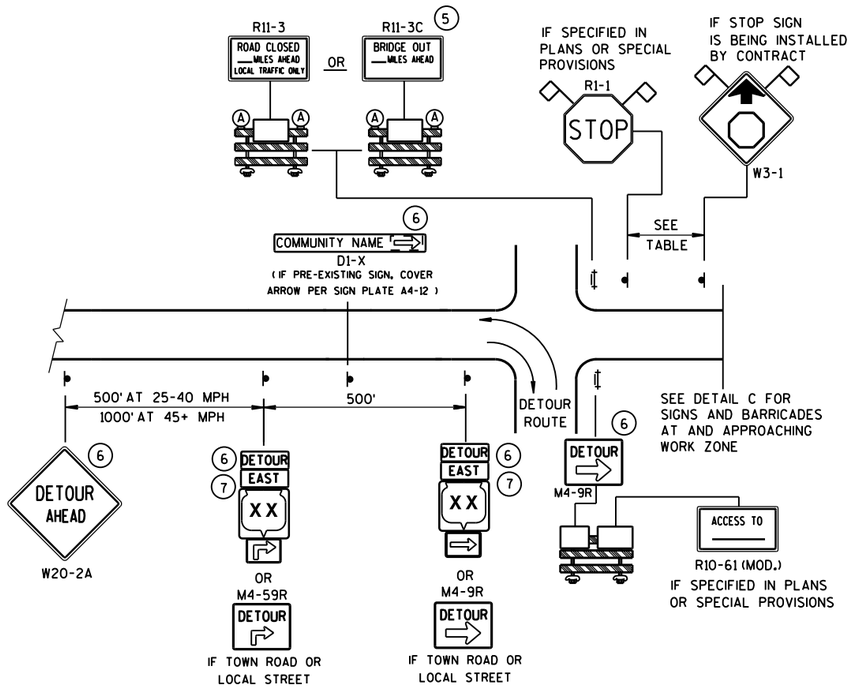
APPROVED
10/1/2012
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
FHWA

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S.D.D. 15 A 3-2b

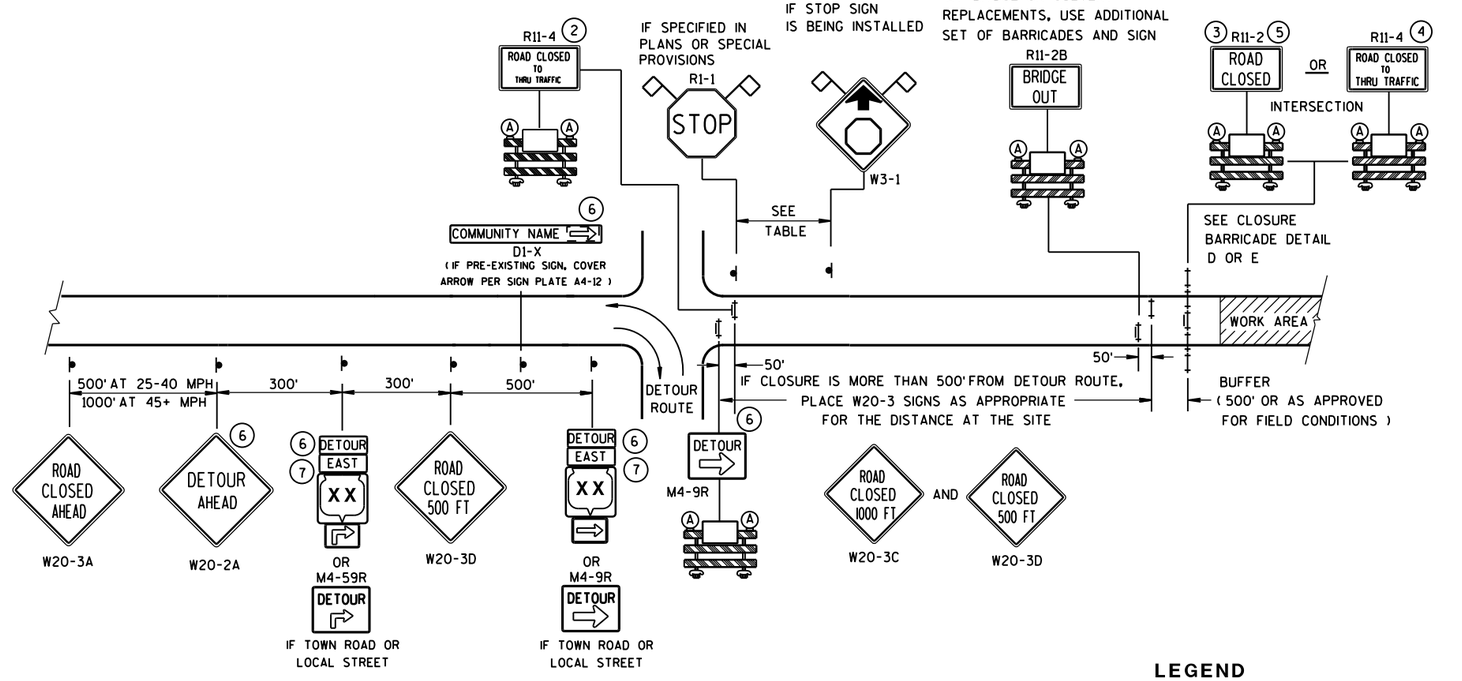
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S.D.D. 15 A 3-2b



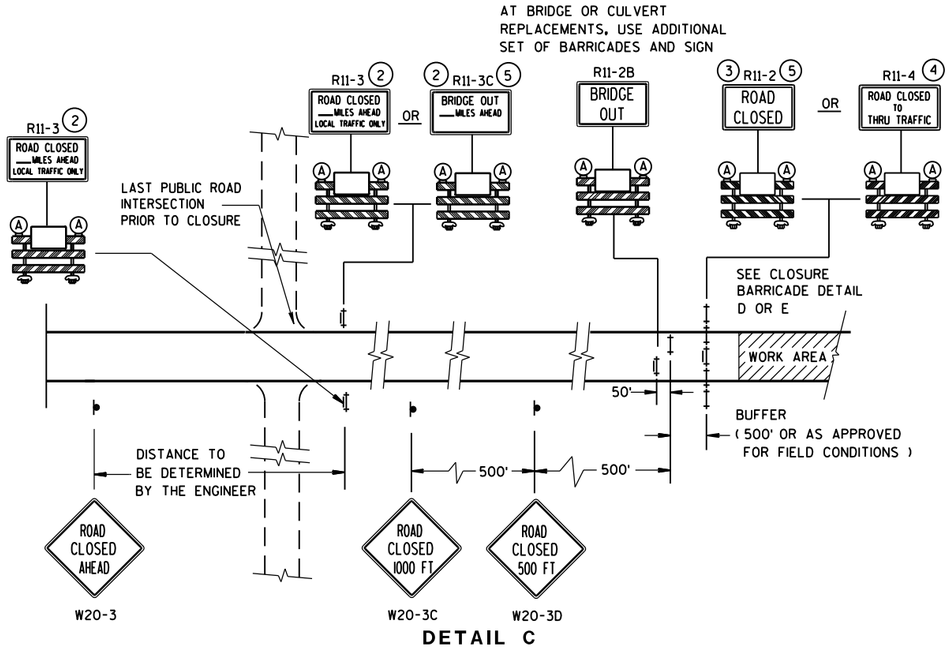
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

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

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

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

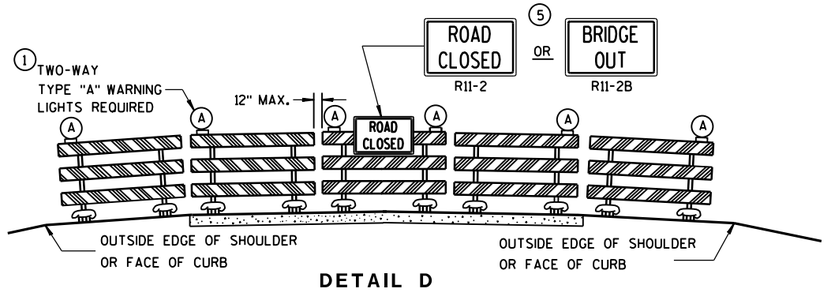
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

S.D.D. 15 C 2-6a

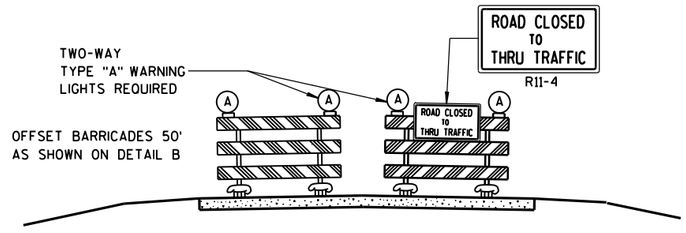
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DETAIL D

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 BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE 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, 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". (30" X 15" 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.)
- M05-1 AND M06-1 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 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 LANE 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 MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

Sept. 2015 — DATE
/S/ Peter Amakobe Atepe — STATEWIDE WORK ZO SAFETY ENGI
FHWA — FIC

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S.D.D. 15 C 2-6b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

GENERAL NOTES

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

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. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

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

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.

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

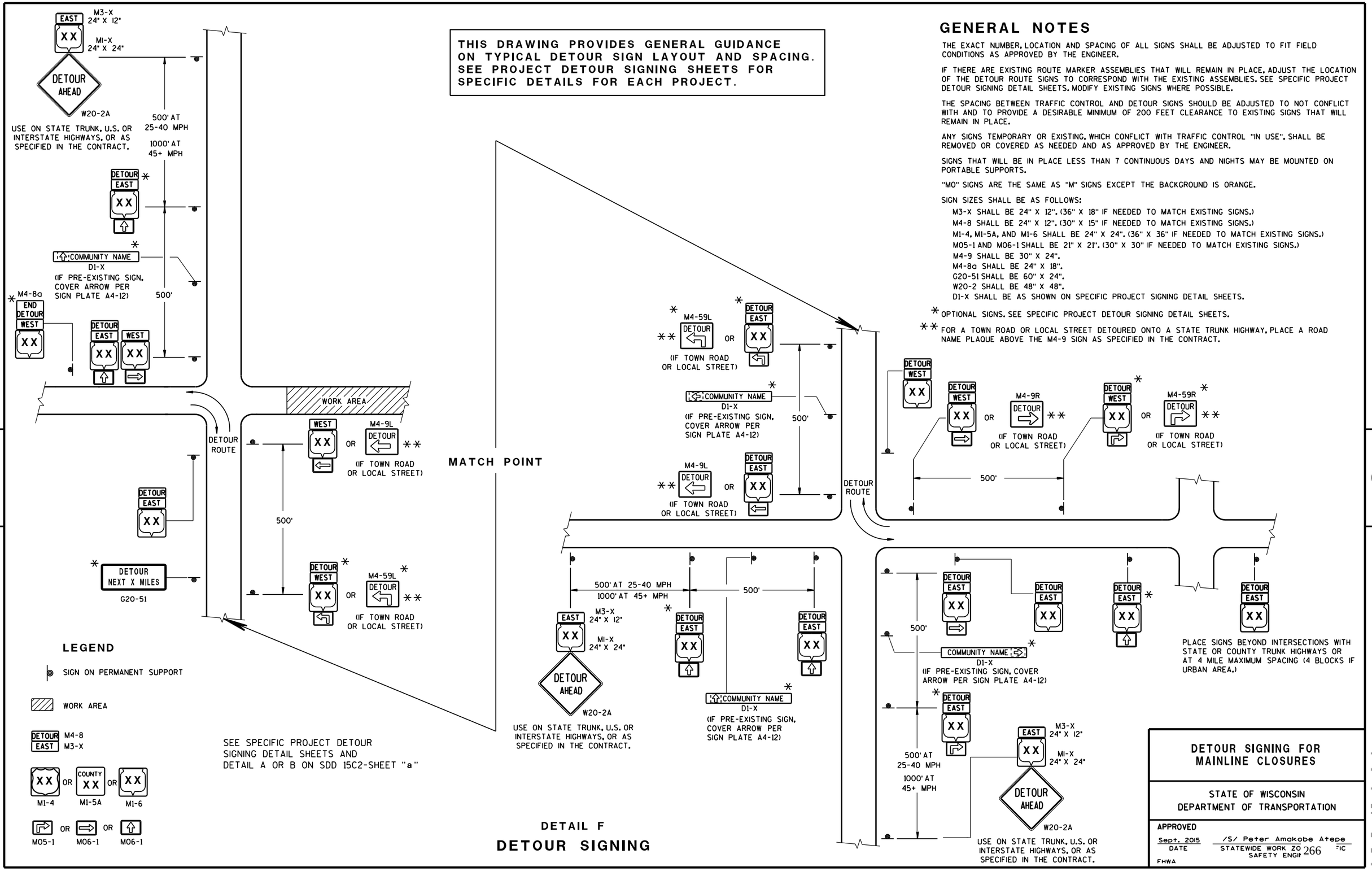
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" 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.)
- M4-9 SHALL BE 30" X 24".
- M4-8a SHALL BE 24" X 18".
- G20-51 SHALL BE 60" X 24".
- W20-2 SHALL BE 48" X 48".
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



LEGEND

- SIGN ON PERMANENT SUPPORT
- WORK AREA
- DETOUR EAST — M4-8 / M3-X
- XX OR COUNTY XX OR XX — M1-4 / M1-5A / M1-6
- MO5-1 OR MO6-1 OR MO6-1

SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS AND DETAIL A OR B ON SDD 15C2-SHEET "a"

DETAIL F

DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

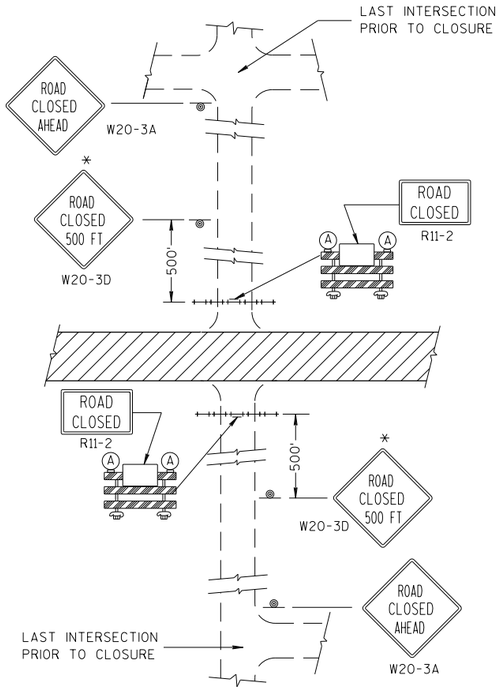
APPROVED

Sept. 2015 — DATE

/S/ Peter Amakobe Atepe — STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

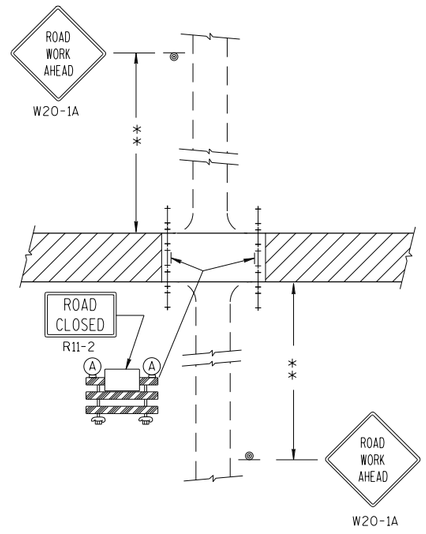
FHWA

6 S.D.D. 15 C 2-6c



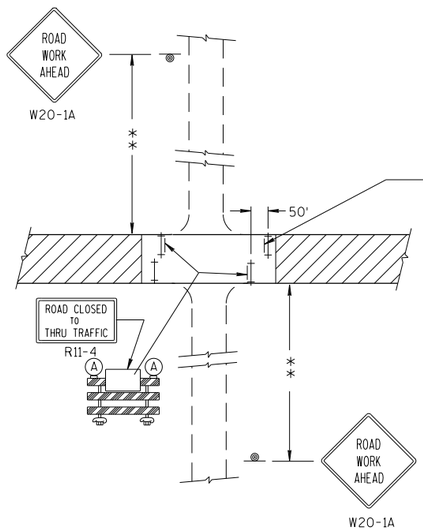
DETAIL 1

(NO ACCESS TO PROJECT)



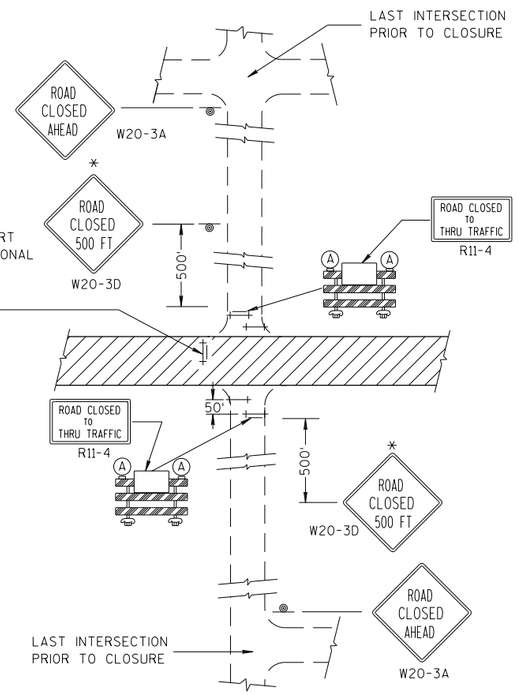
DETAIL 2

(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT).



DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR,
LOCAL BUSINESS AND RESIDENT ACCESS).



DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

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.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

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 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

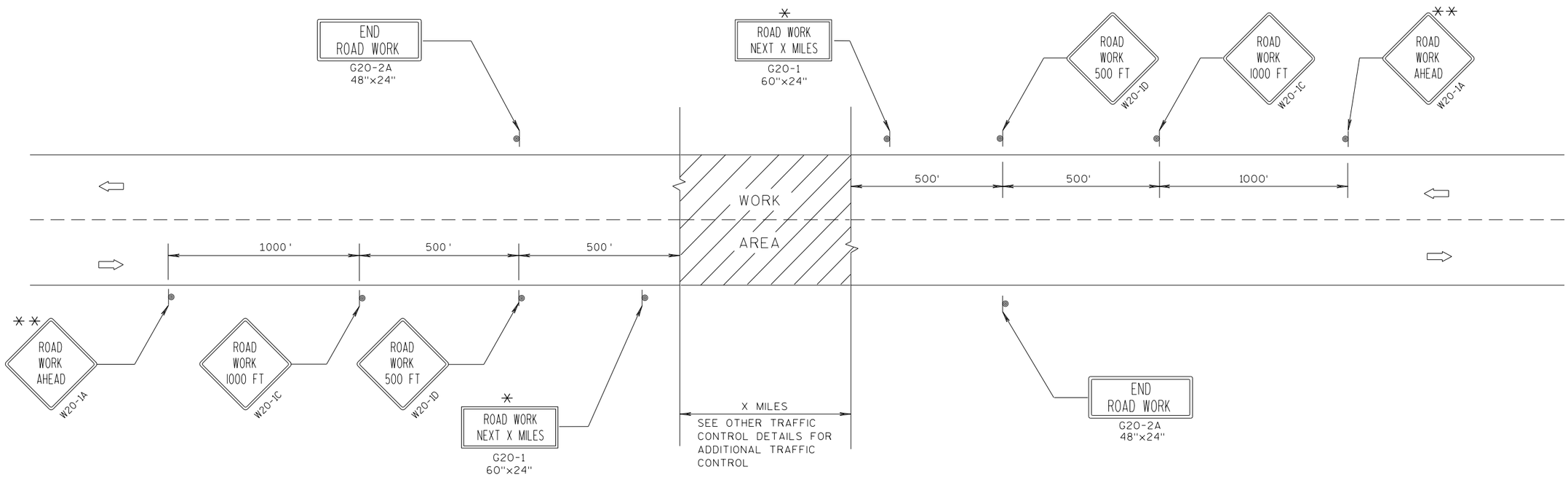
/S/ Andrew Heidtke
WORK ZONE ENGI

FHWA

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S.D.D. 15 C 3-5

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

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

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.

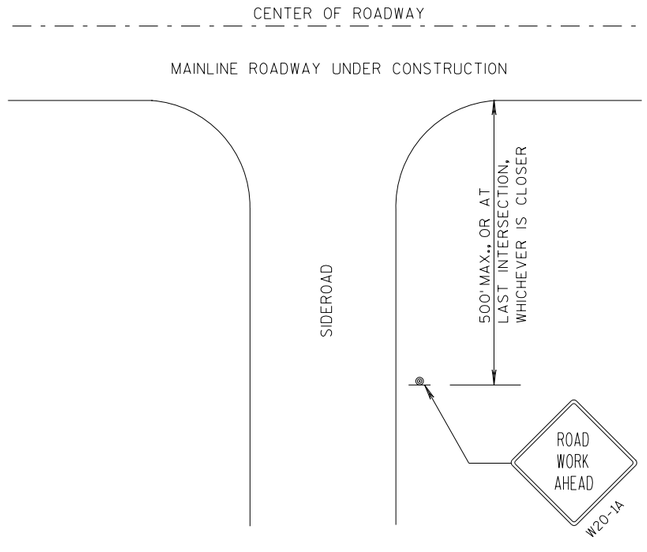
ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

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

✳✳ PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

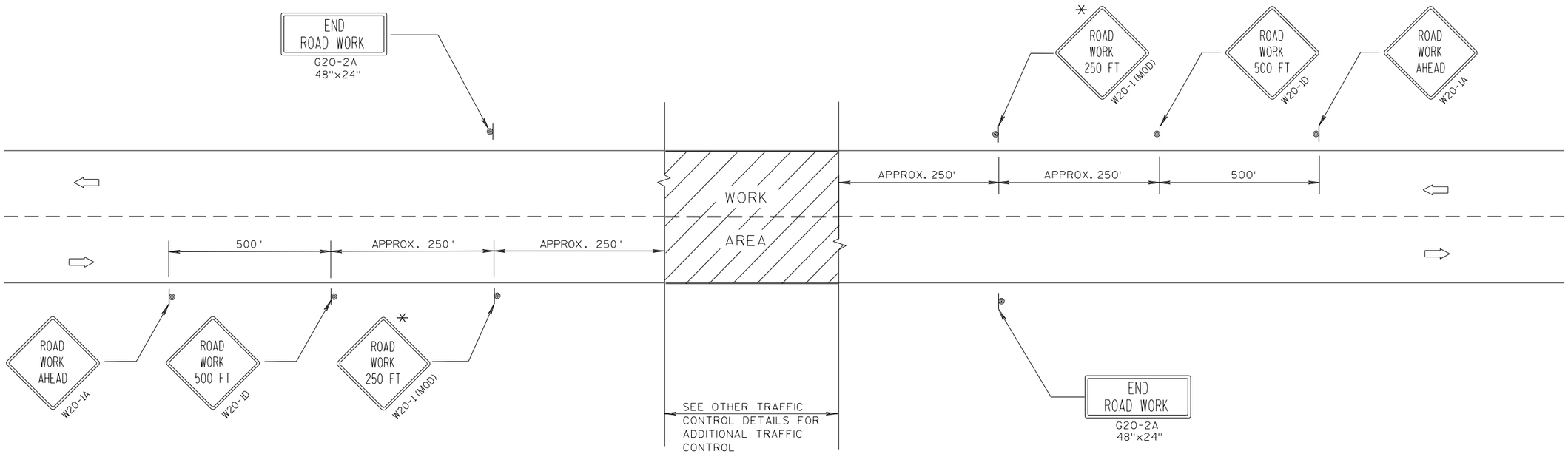
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018 — DATE
/S/ Andrew Heldtke — WORK ZONE ENGI
FHWA

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S.D.D. 15 C 4-5

TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



GENERAL NOTES

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

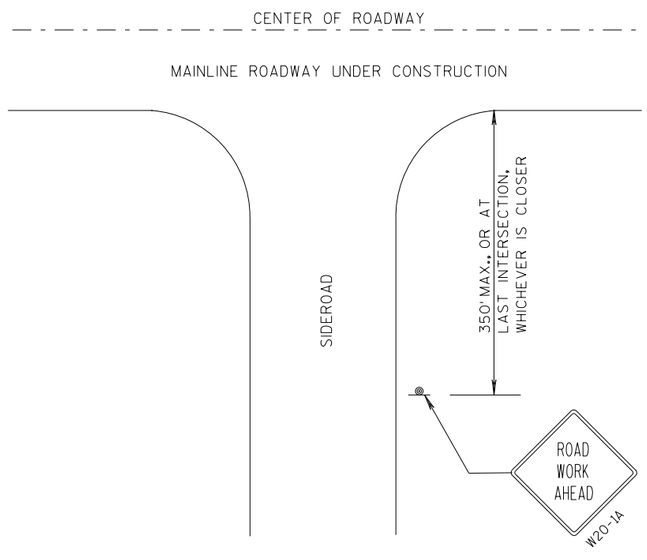
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Andrew Heldtke
WORK ZONE ENGI

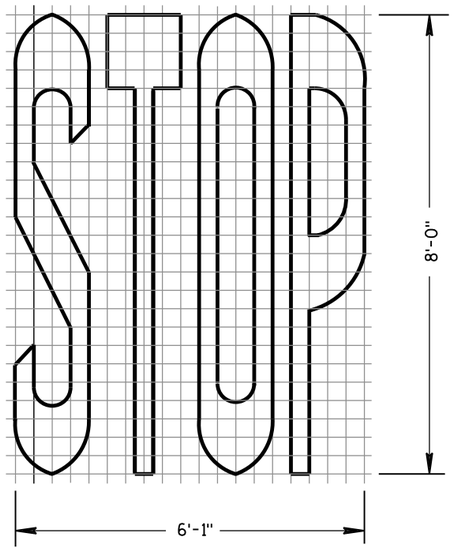
FHWA

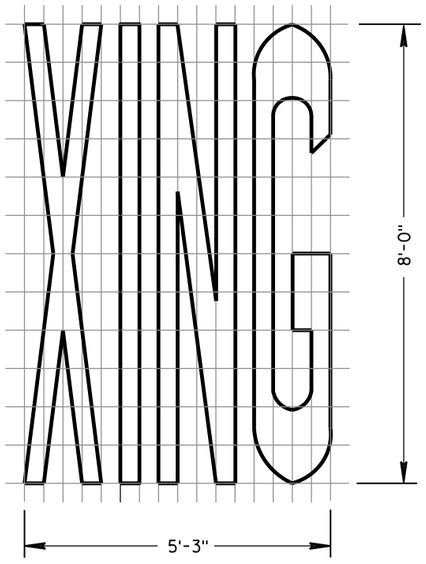
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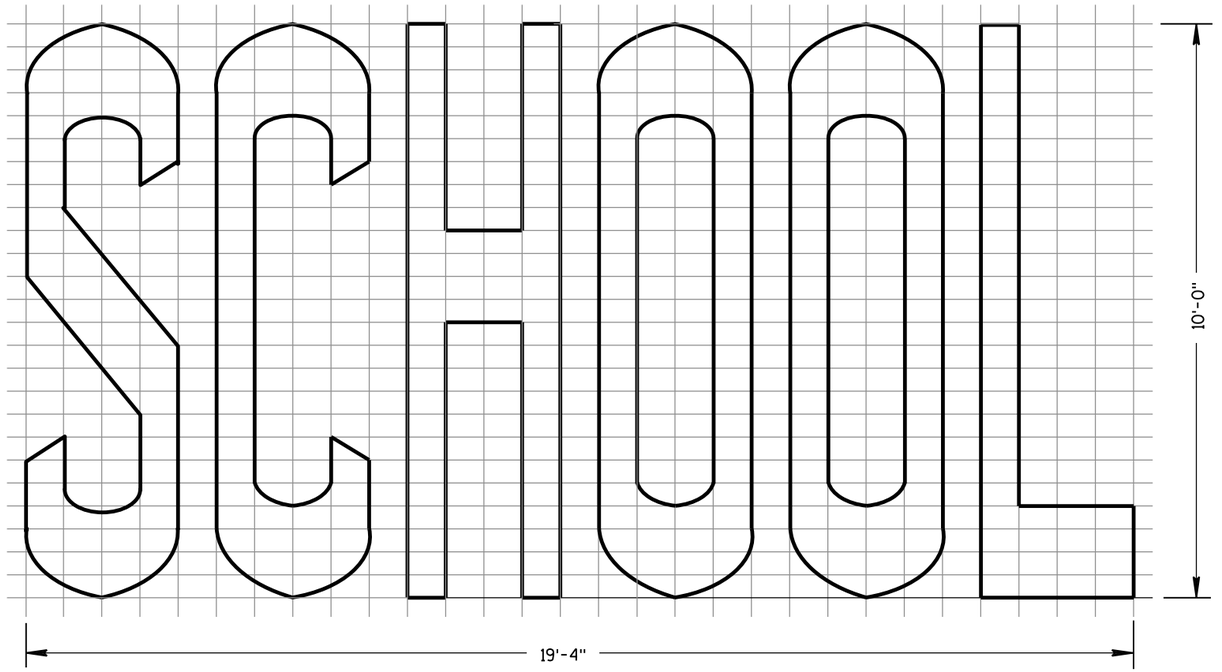
S.D.D. 15 C 5-5

GENERAL NOTES

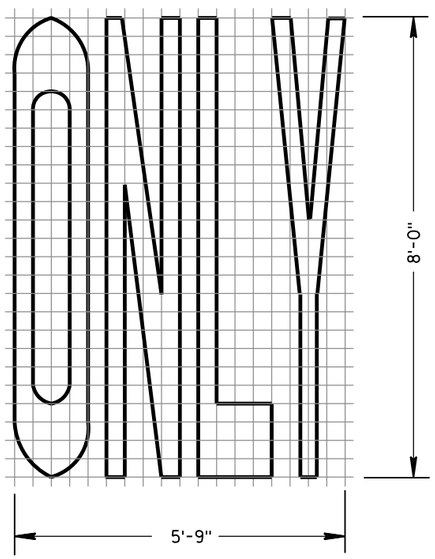
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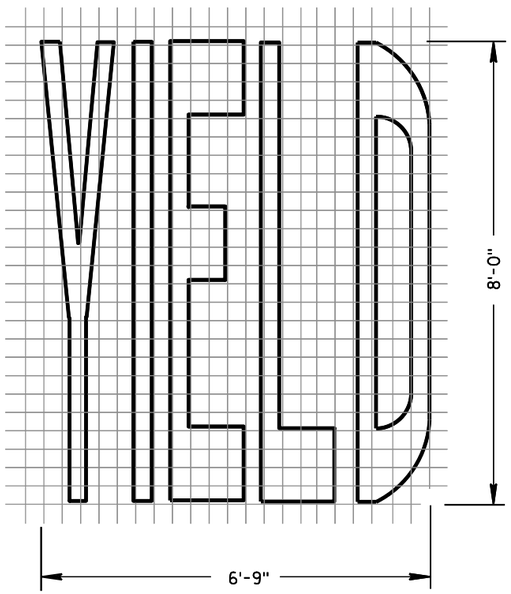


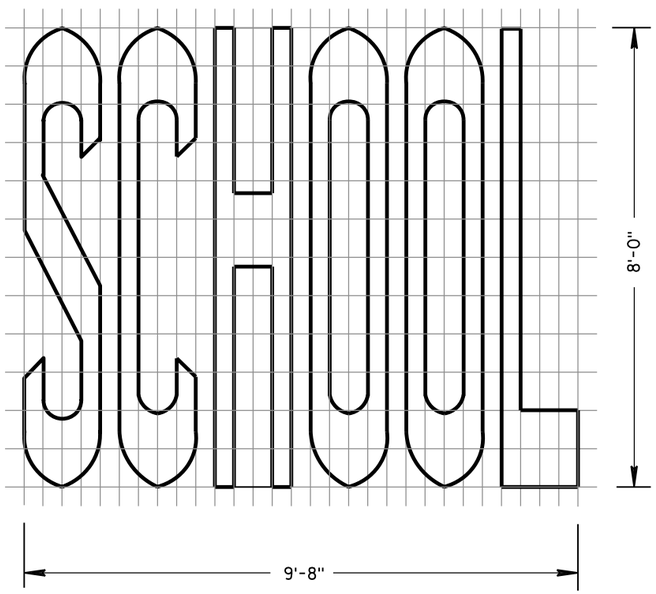




TWO-LANE







SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

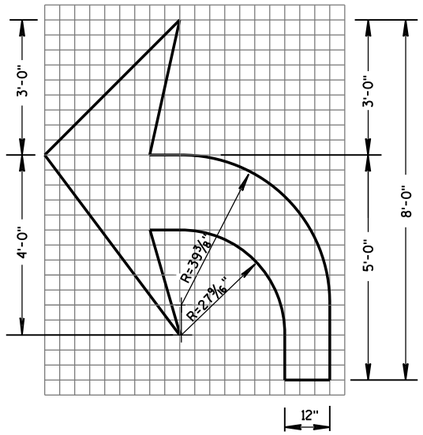
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June 2017 — DATE
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FHWA

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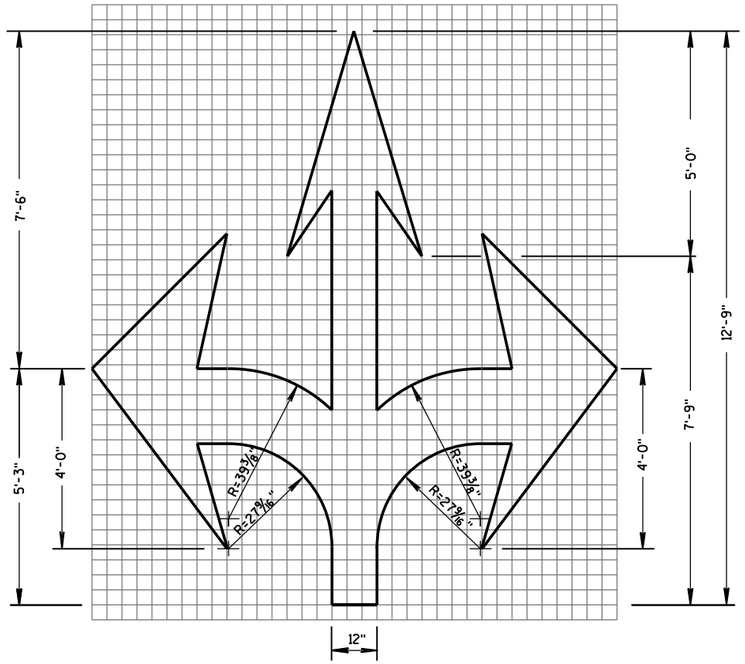
S.D.D. 15 C 7-14b

GENERAL NOTES

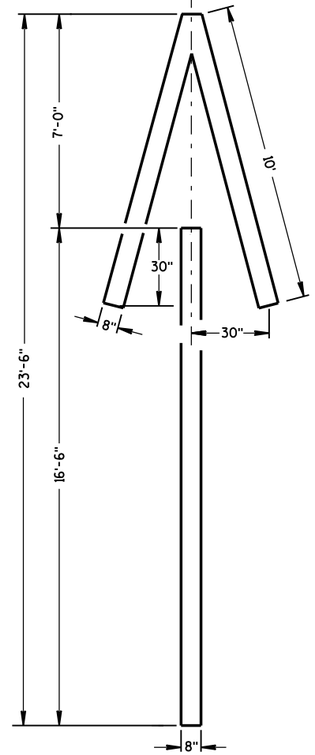
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



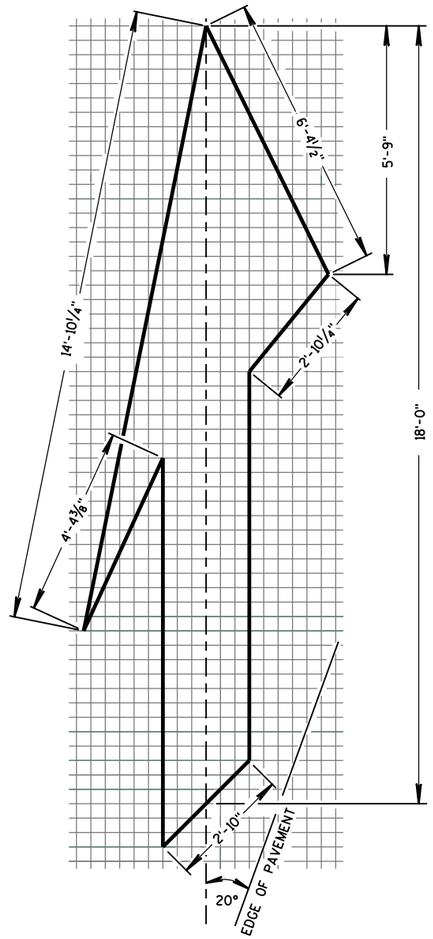
TYPE 2



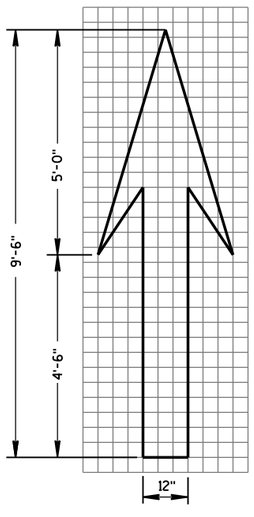
TYPE 6



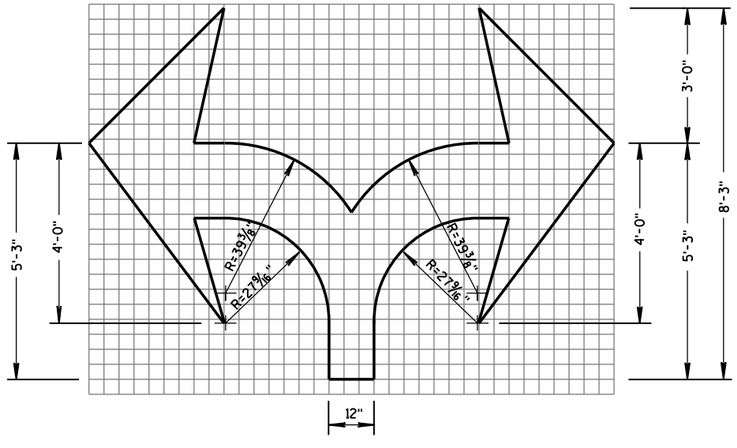
TYPE 4



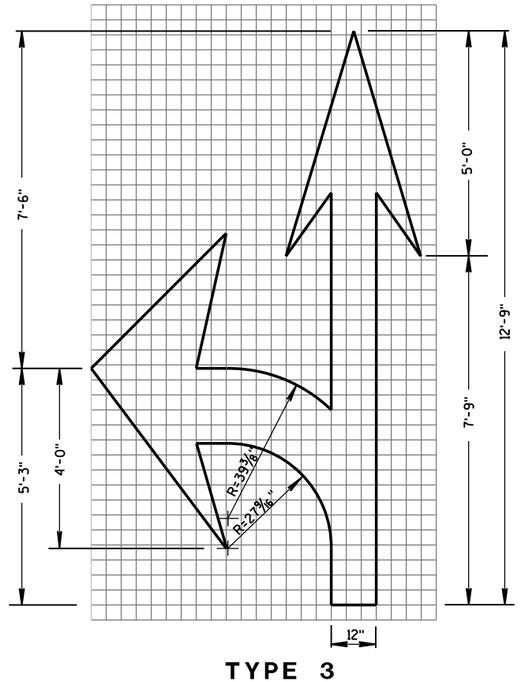
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

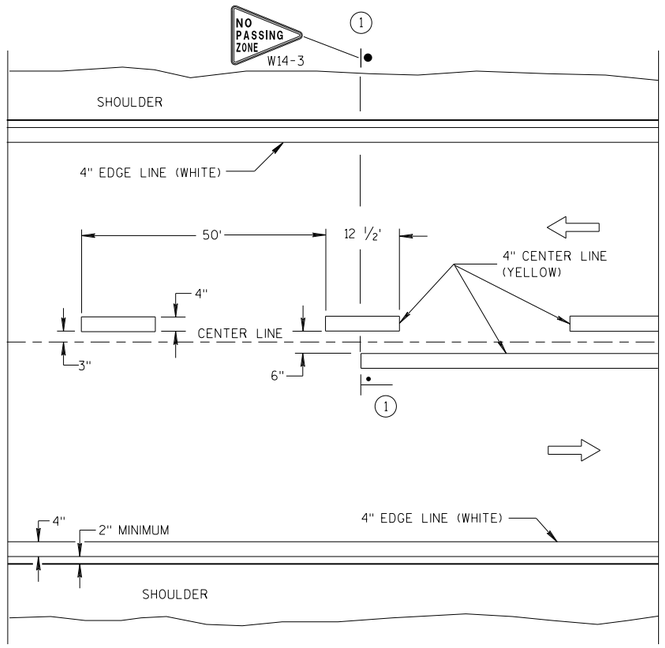
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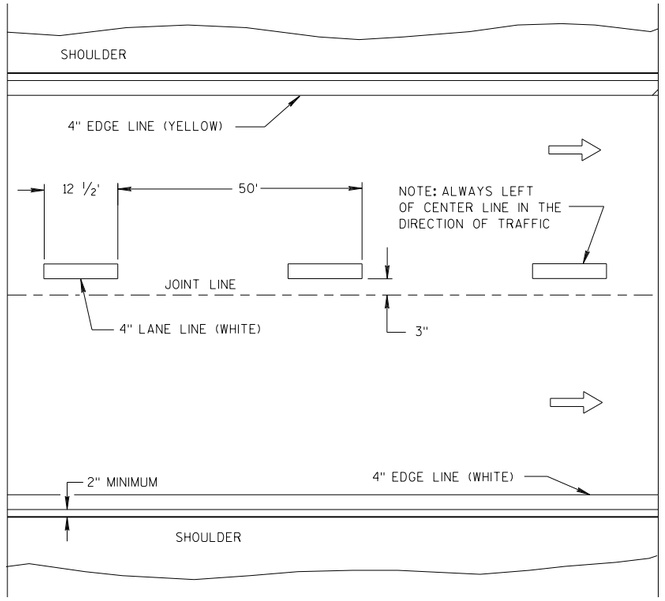
S.D.D. 15 C 7-14c

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S.D.D. 15 C 7-14c



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

GENERAL NOTES

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

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

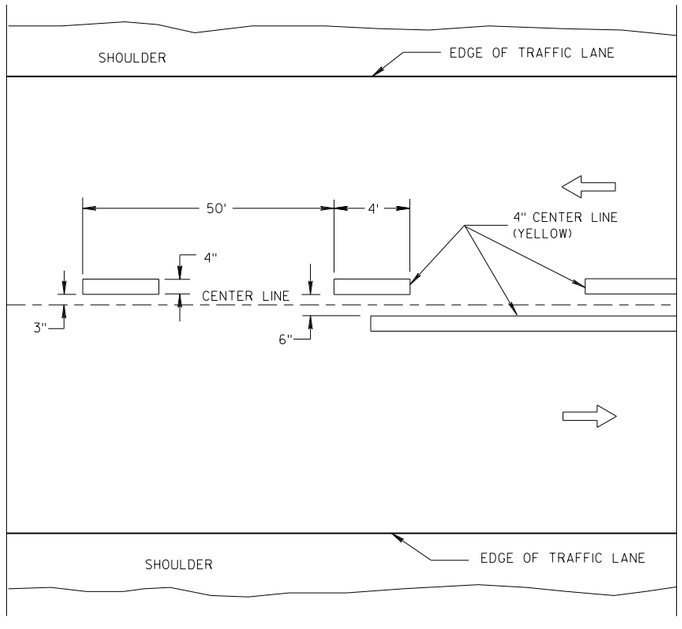
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

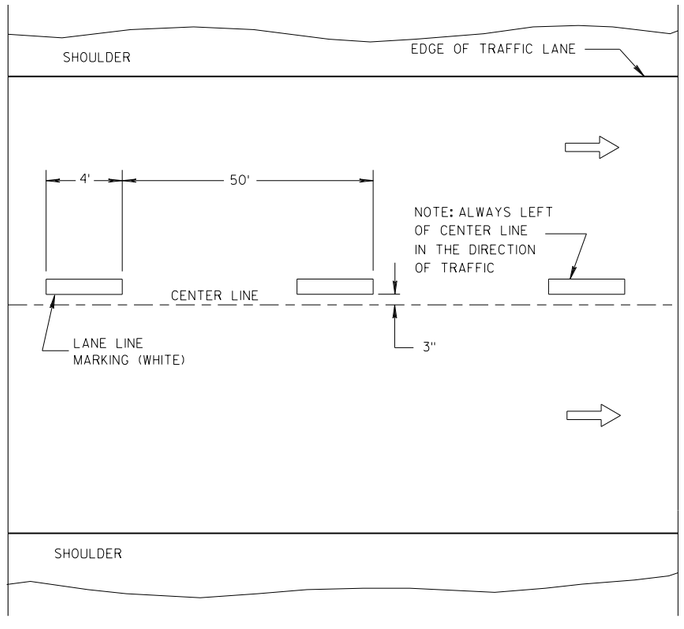
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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7/2018 DATE

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S.D.D. 15 C 8-19a

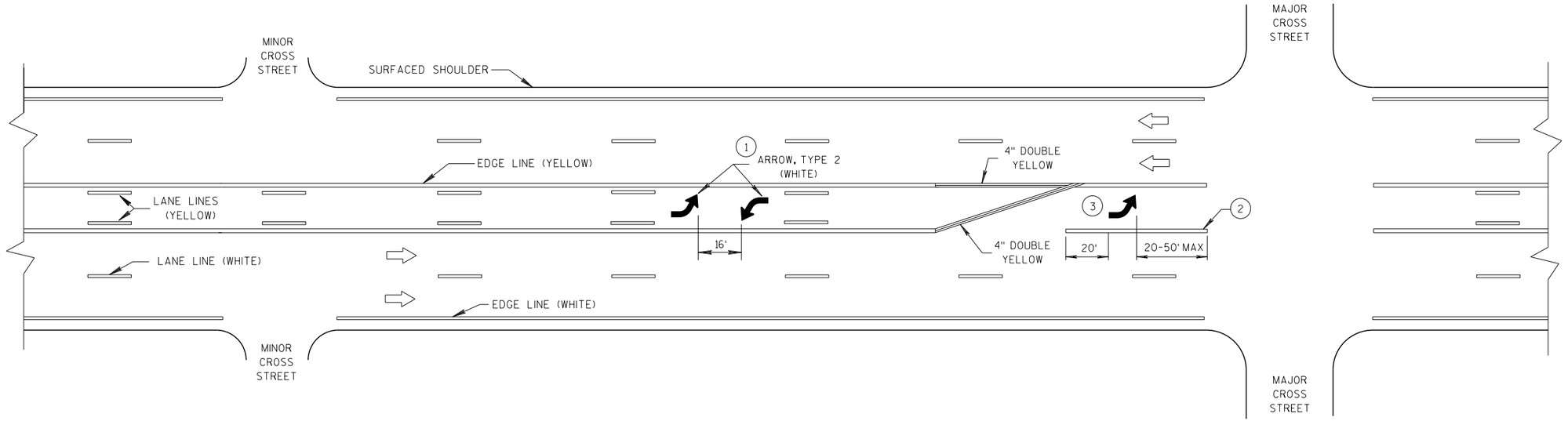
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S.D.D. 15 C 8-19a

GENERAL NOTES

1. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
2. 8" WHITE
3. TURN BAY LENGTH OF LESS THAN 48'DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT

DIRECTION OF TRAFFIC



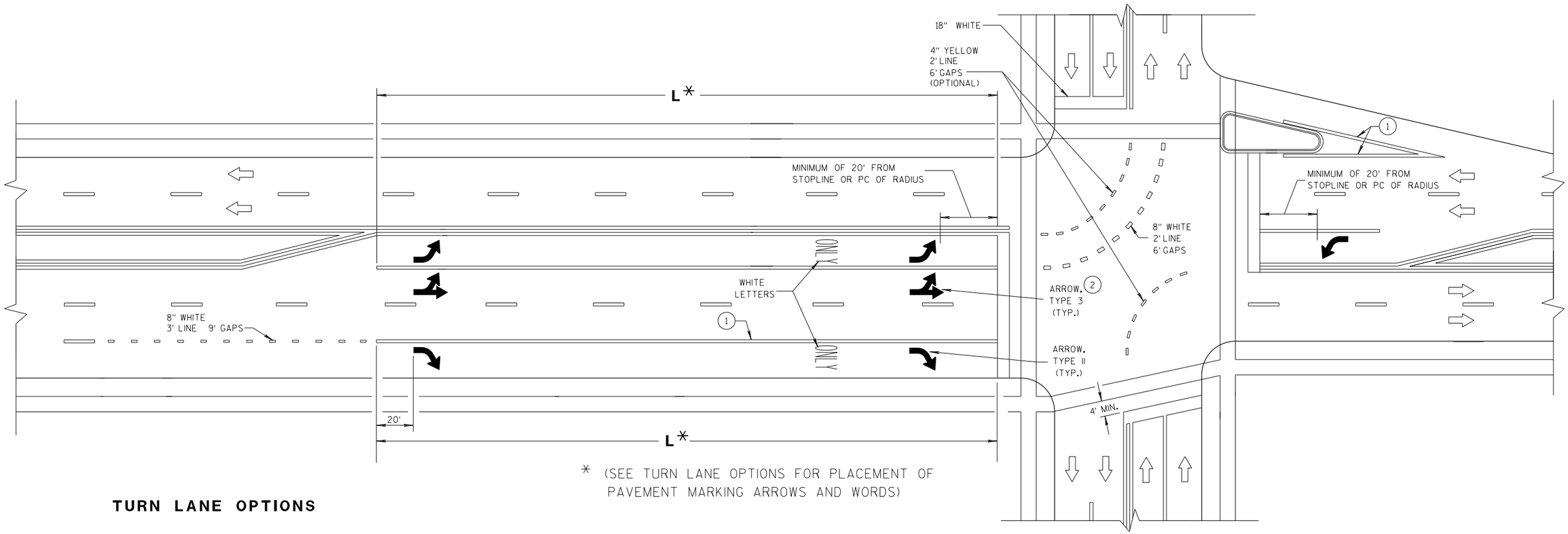
TWO WAY LEFT TURN LANE

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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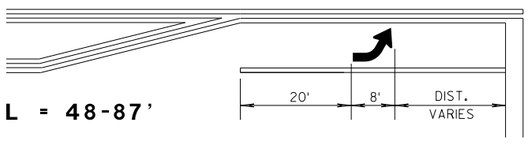
S.D.D. 15 C 8-19b



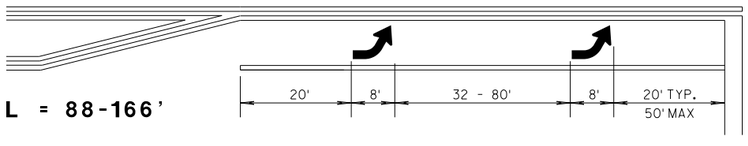
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

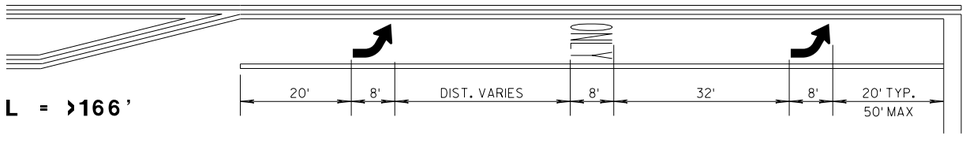
LENGTH OF TURN BAY (**L**) OF 0-47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48-87'



L = 88-166'



L = >166'

GENERAL NOTES

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

⇨ DIRECTION OF TRAFFIC

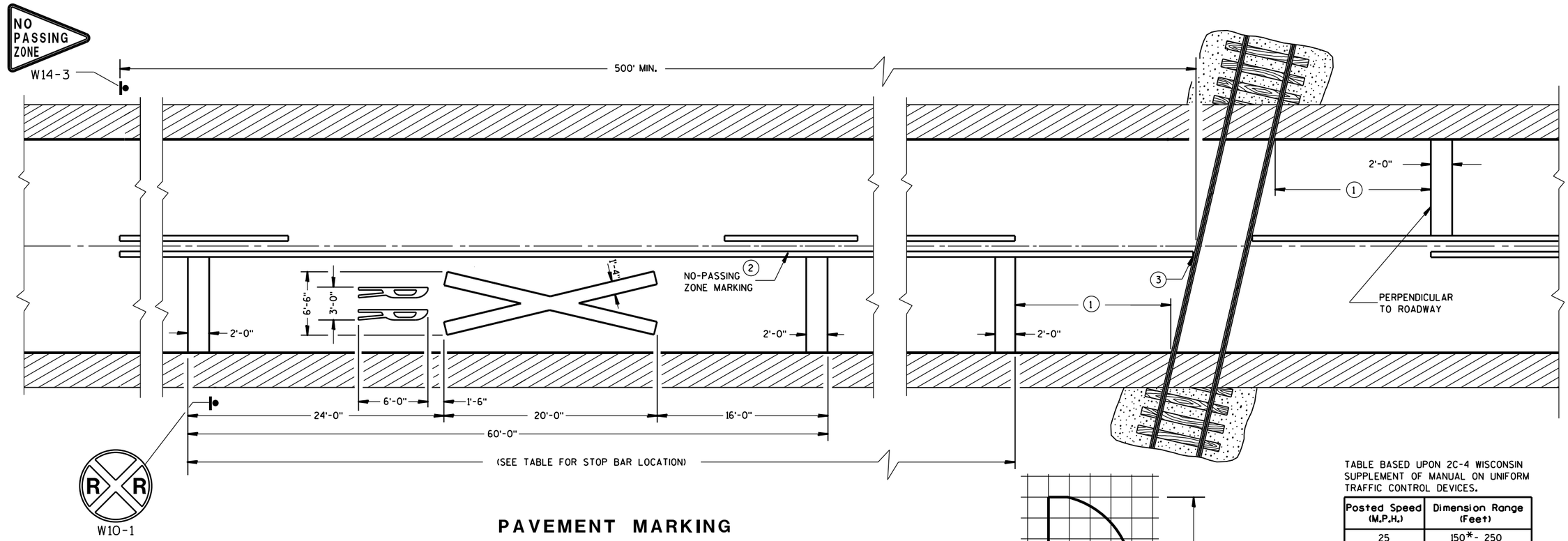
L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORT

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S.D.D. 15 C 8-19c



PAVEMENT MARKING

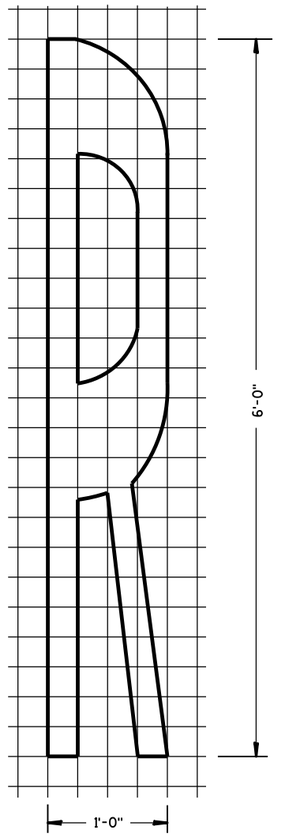


TABLE BASED UPON 2C-4 WISCONSIN SUPPLEMENT OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

Posted Speed (M.P.H.)	Dimension Range (Feet)
25	150*- 250
30	200*- 300
35	250*- 450
40	300*- 500
45	400*- 650
50	550*- 800
55	750*- 1000
60	1000*- 1250
65	1000*- 1250

* THE MINIMUM DISTANCES IN THE TABLE ARE DESIRABLE AND SHOULD BE USED. THE DISTANCES MAY BE INCREASED UP TO THE MAXIMUM TO ALLOW FOR FIELD CONDITIONS SUCH AS THE CLOSE PROXIMITY OF DRIVEWAYS, BRIDGES, SIDEROADS OR OTHER FEATURES THAT WOULD PROHIBIT THE MINIMUM DISTANCES FROM BEING USED.

GENERAL NOTES

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

ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS ALL APPROACH LANES, AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.

CENTER OR LANE LINES AND NO-PASSING ZONE MARKINGS SHOWN ON THIS DRAWING ARE REQUIRED AND PAID FOR UNDER OTHER ITEMS IN THE CONTRACT.

RETRACE EXISTING SYMBOL WHERE EXISTING SYMBOLS ARE PLACED.

(1) MINIMUM 8' FROM ANY RAILROAD WARNING DEVICES (SIGNALS, GATES, ETC.) OR 25' FROM THE NEAREST RAIL, WHICHEVER DISTANCE IS GREATER.

(2) 500' MINIMUM. MARKING LIMITS MAY BE EXTENDED AS DIRECTED BY THE ENGINEER TO MEET ADJACENT NO-PASSING ZONE MARKINGS.

(3) FOR MULTIPLE TRACK CROSSINGS, THE BARRIER LINE SHALL EXTEND TO THE NEAR RAIL OF THE FURTHEST TRACK IN THE DIRECTION OF HIGHWAY TRAVEL.

SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Sept., 2017 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MAI[illegible]GINEER

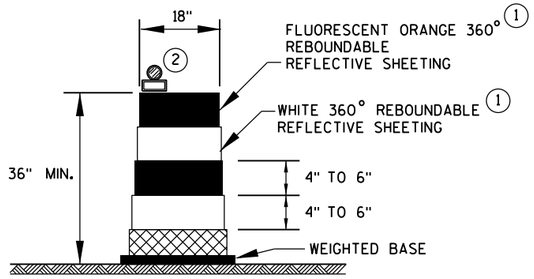
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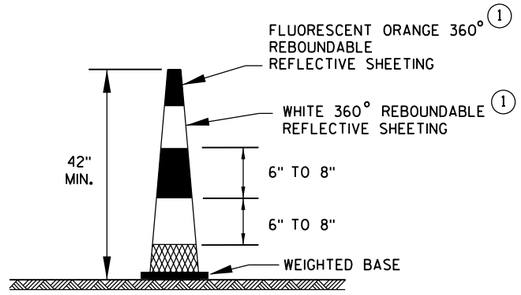
S.D.D. 15 C 9-11a

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S.D.D. 15 C 9-11a



DRUM

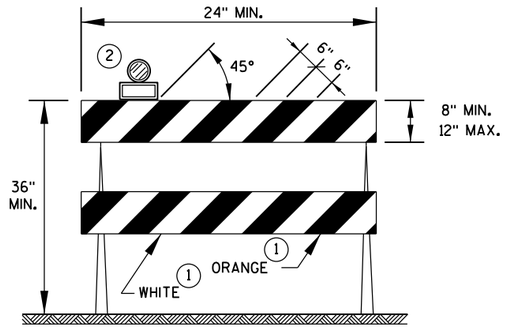


42" CONE

DO NOT USE IN TAPERS
1/2 SPACING OF DRUMS

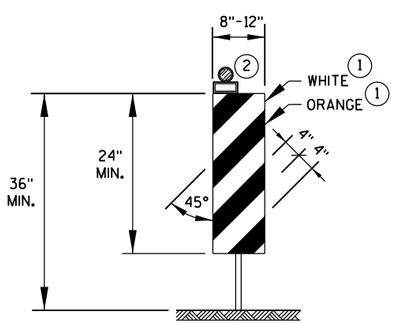
GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



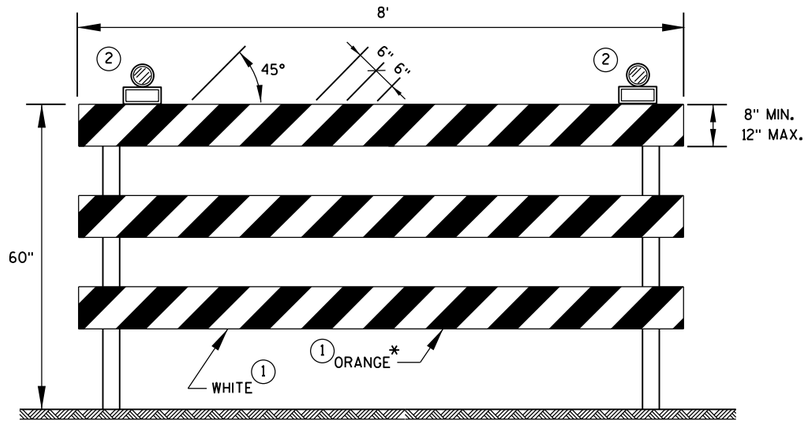
TYPE 2 BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE 3 BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION, USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
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June 2017 DATE	/S/ Andrew Heidtke WORK ZONE ENG
FHWA	

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S.D.D. 15 C 11-7b

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

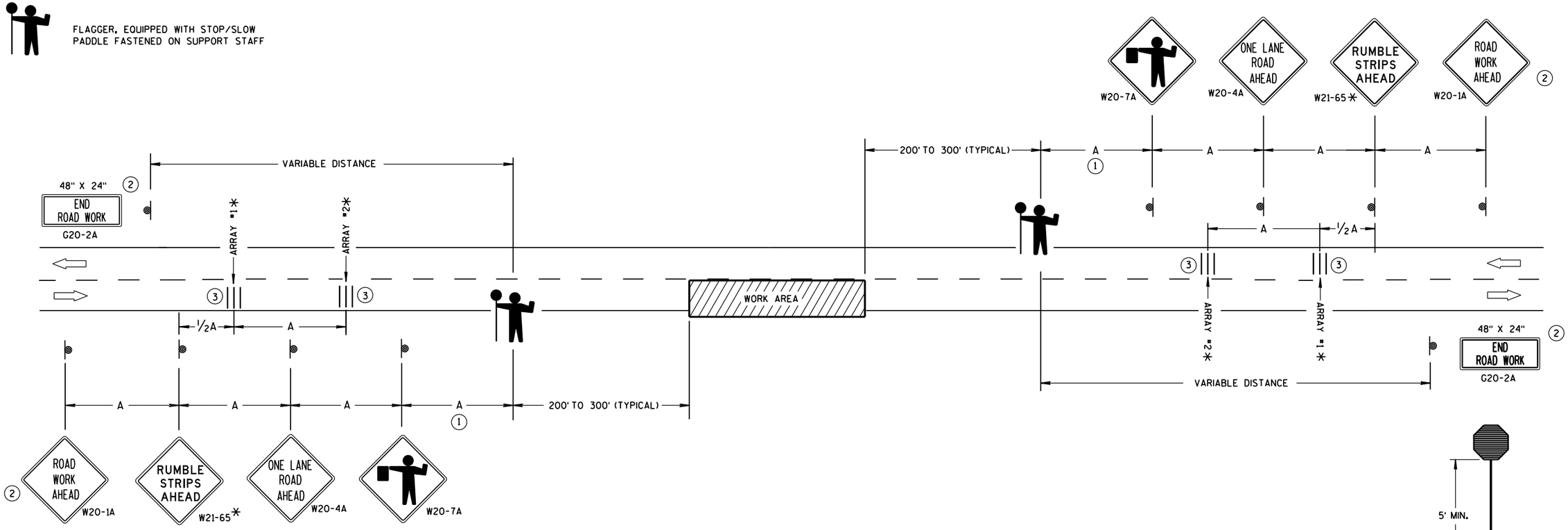
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

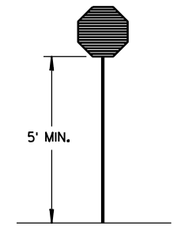
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

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



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





STOP/SLOW PADDLE ON SUPPORT STAFF

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

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.

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

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.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

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 PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

* UTILIZE TEMPORARY RUMBLE STRIPS WHEN FLAGGING OPERATION IS ANTICIPATED TO BE STATIONARY IN EXCESS OF TWO HOURS.

(1) FOR A MOVING WORK OPERATION, SIGNING AND TEMPORARY RUMBLE STRIPS (IF USED) SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3,500 FOOT 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.

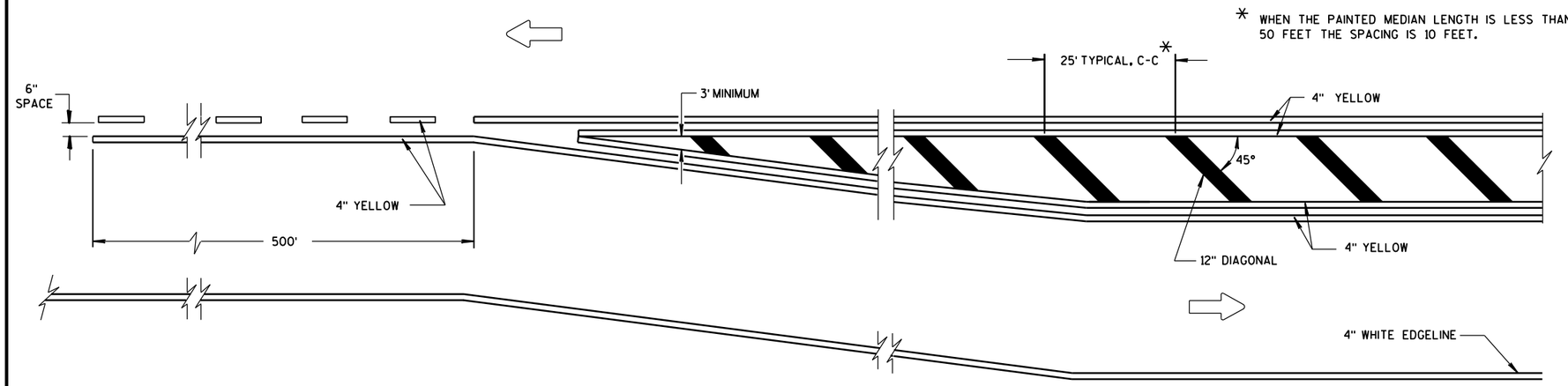
(3) EACH TEMPORARY RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2017 — DATE
/S/ Andrew Heldtke — WORK ZONE ENG
FHWA

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S.D.D. 15 C 12-6

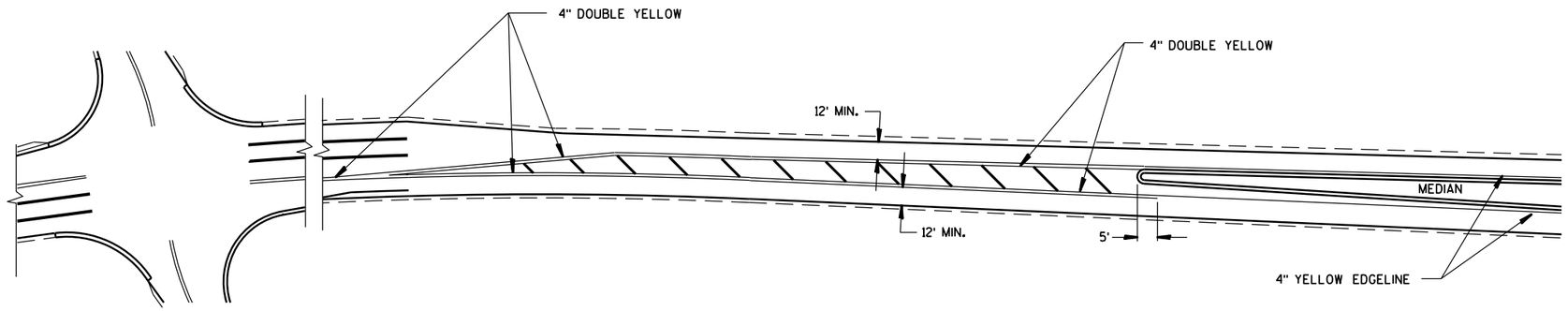


MEDIAN ISLAND DETAIL

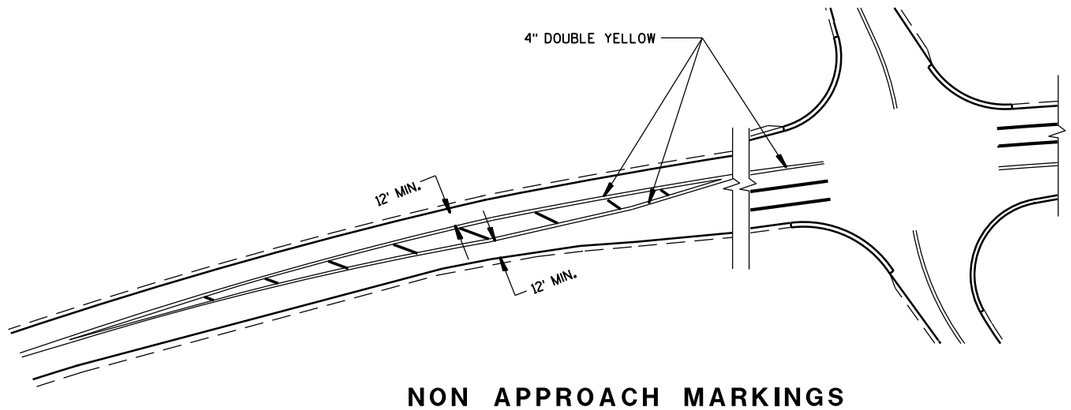
GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.

DIRECTION OF TRAVEL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

MEDIAN ISLAND MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

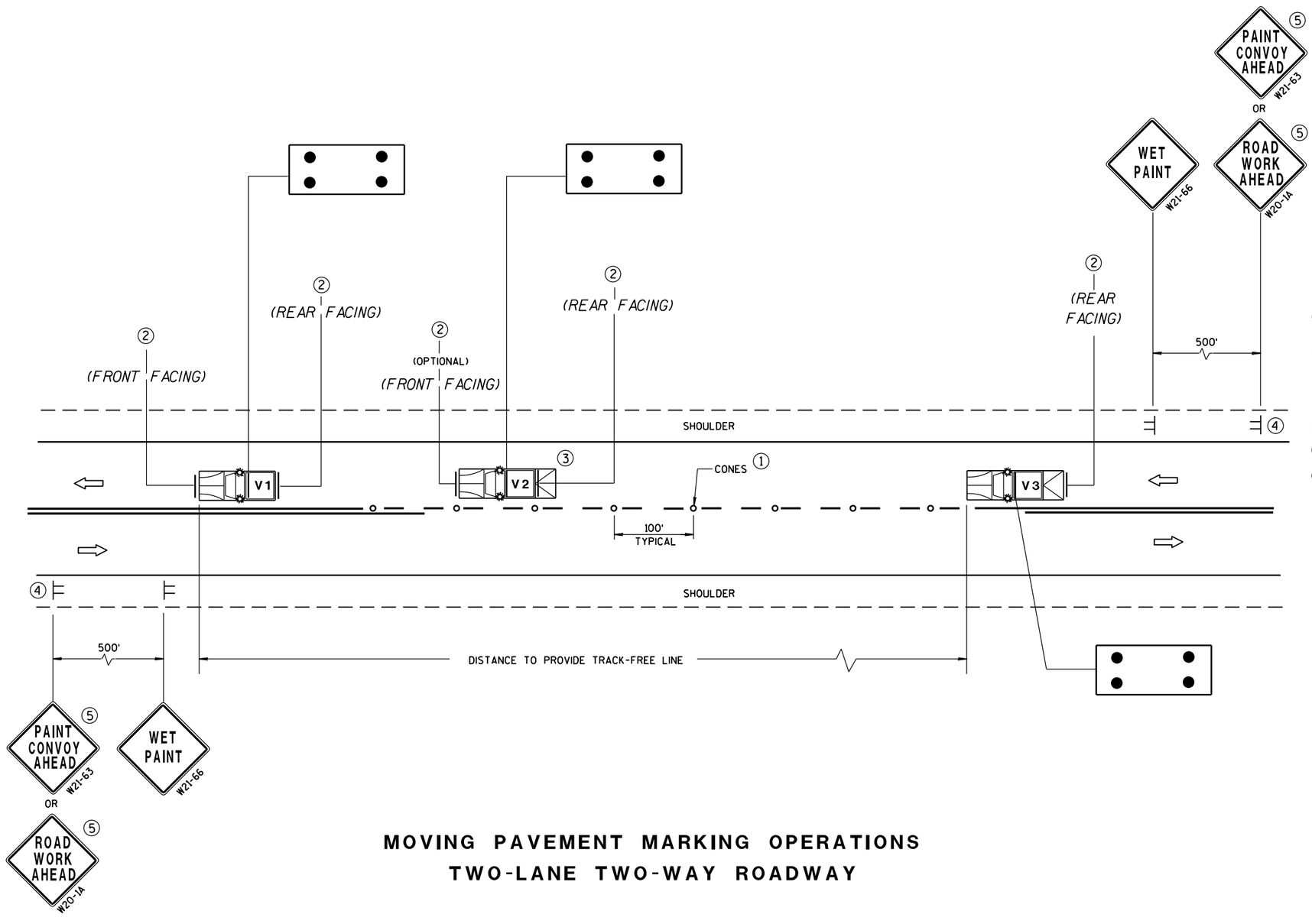
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/S/ Matthew Rauch
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S.D.D. 15 C 18-4

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S.D.D. 15 C 18-4



MOVING PAVEMENT MARKING OPERATIONS
TWO-LANE TWO-WAY ROADWAY

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.

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.

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

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 OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

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

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

(1) CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

(3) OPTIONAL TRUCK-MOUNTED ATTENUATOR.

(4) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(5) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

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

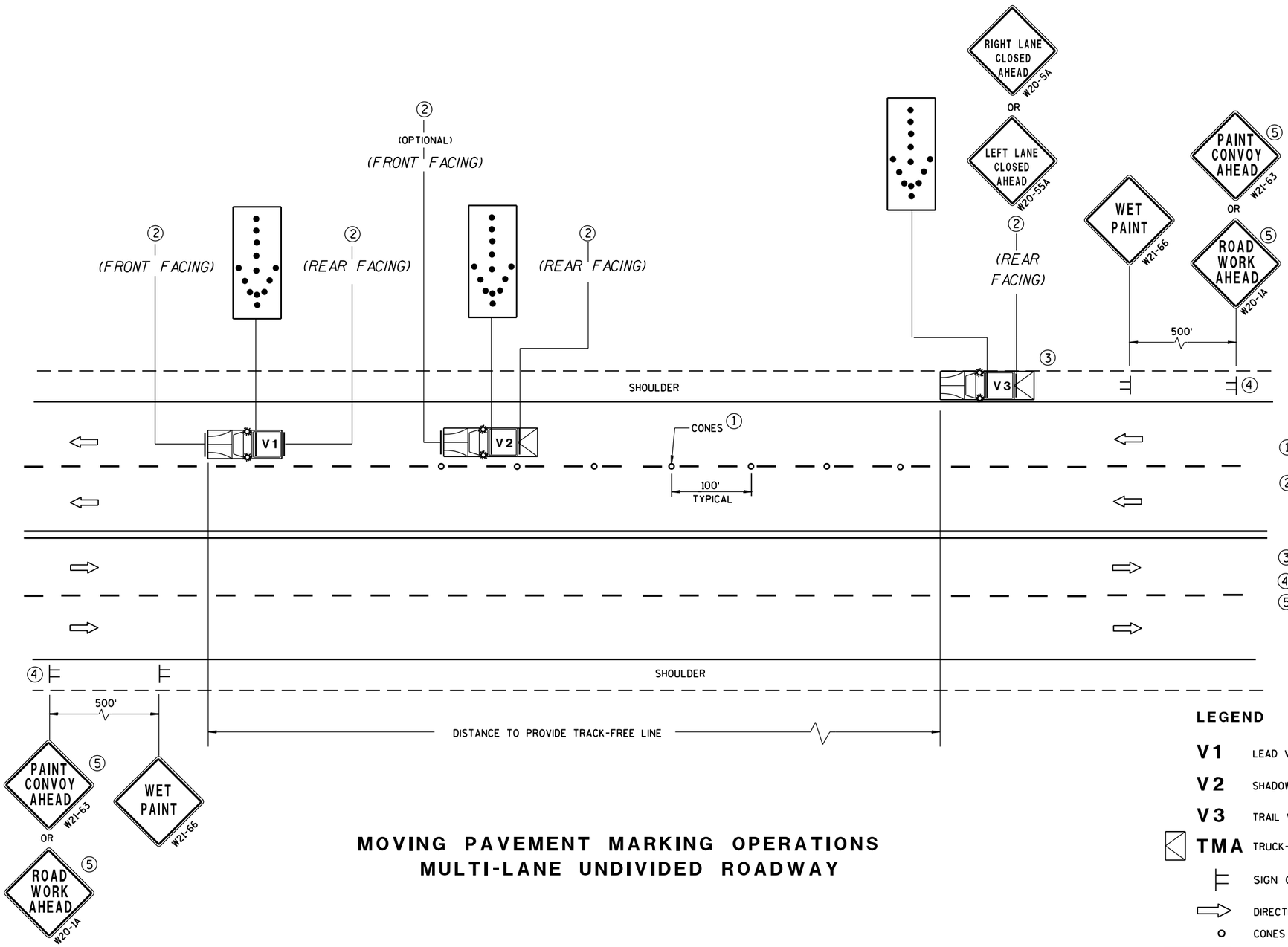
MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
Sept., 2017 DATE	/S/ Andrew Heldtke WORK ZONE ENGR
FHWA	

6

S.D.D. 15 C 19-5a

6

S.D.D. 15 C 19-5a



MOVING PAVEMENT MARKING OPERATIONS
MULTI-LANE UNDIVIDED ROADWAY

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.

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

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 OR 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 REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

FOR EDGELINE MARKING OR IF CONES ARE NOT USED, POSITION THE REARMOST SHADOW VEHICLE ON THE SHOULDER AS SHOWN IN THE MUTCD IF THE SHOULDER HAS ADEQUATE WIDTH.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE OR LANELINE MARKING FOR MULTILANE UNDIVIDED ROADWAYS.

(1) CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

WET PAINT W21-64 OR WET PAINT W21-64

(3) OPTIONAL TRUCK-MOUNTED ATTENUATOR.

(4) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

(5) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

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

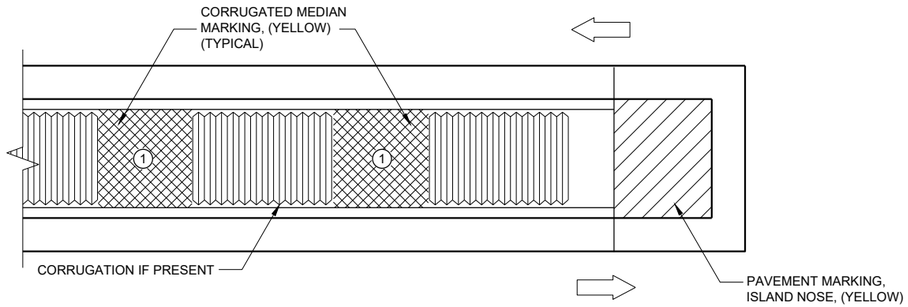
MOVING PAVEMENT MARKING OPERATION
MULTI-LANE UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

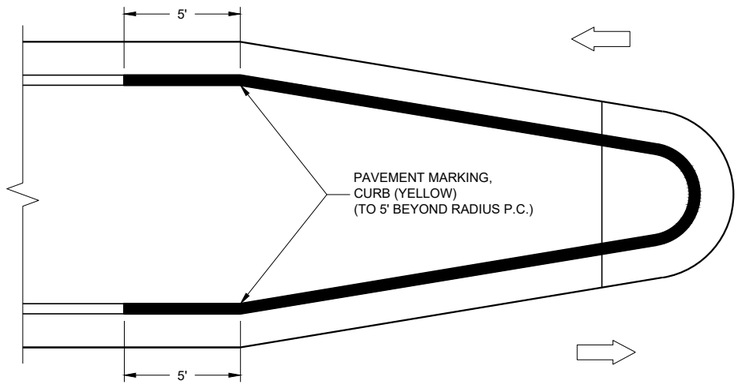
APPROVED
Sept., 2017 — DATE
/S/ Andrew Heldtke — WORK ZONE ENGIN
FHWA

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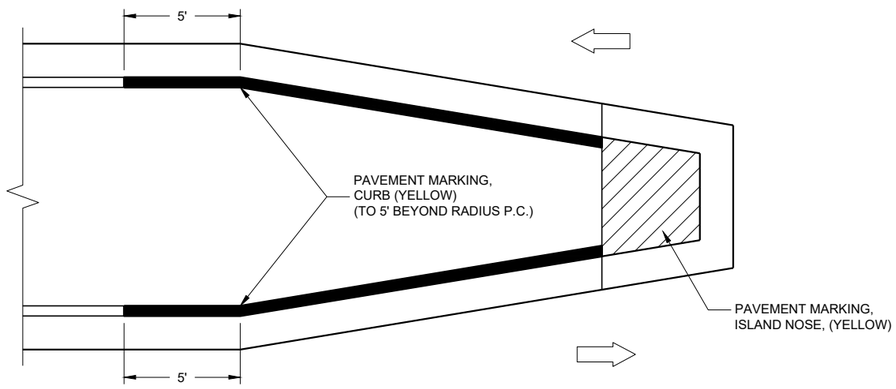
S.D.D. 15 C 19-5b



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

**TYPICAL PLACEMENT OF
PAVEMENT MARKING ON MEDIAN ISLANDS**

GENERAL NOTES

WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

**PAVEMENT MARKINGS
(ISLANDS)**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Matthew R. Rauch
STATE SIGNING AND MAF ENGINEER

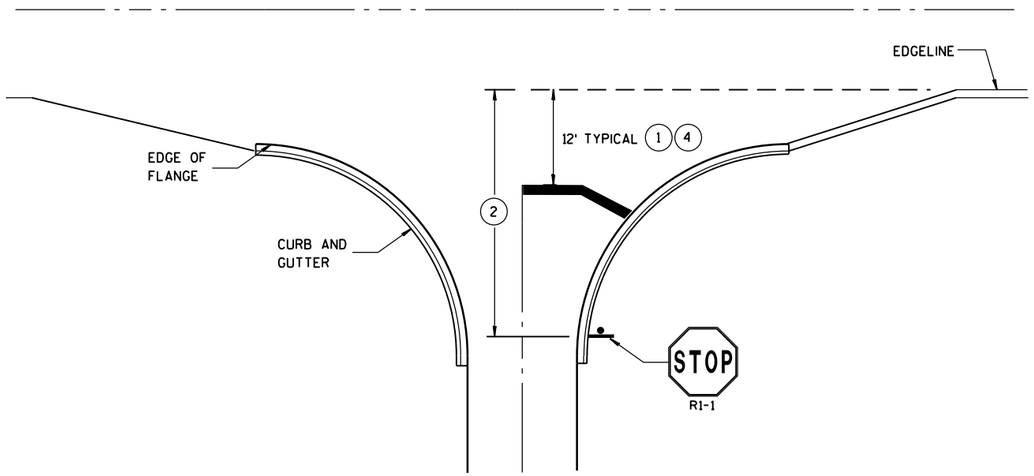
FHWA

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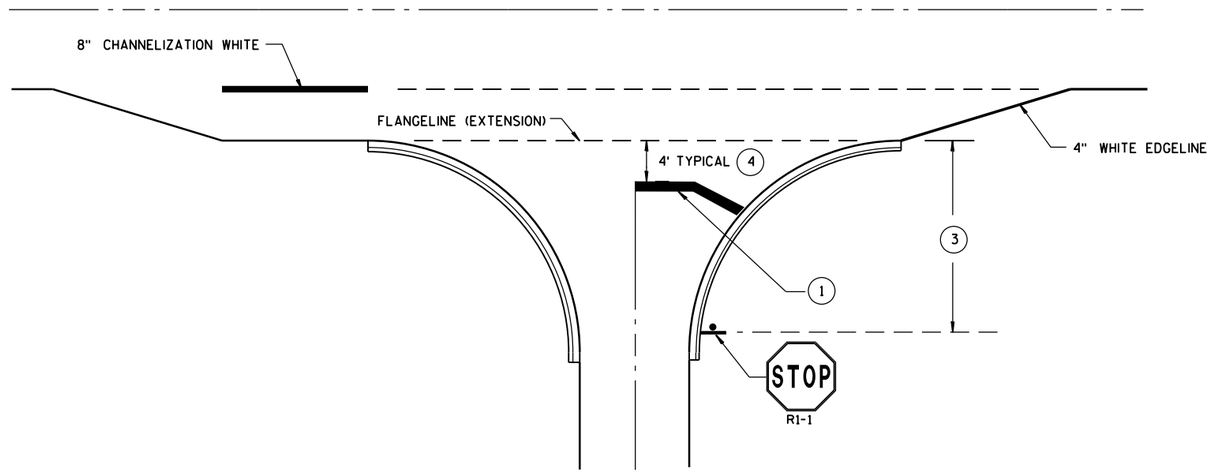
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SDD 15C27 - 03b

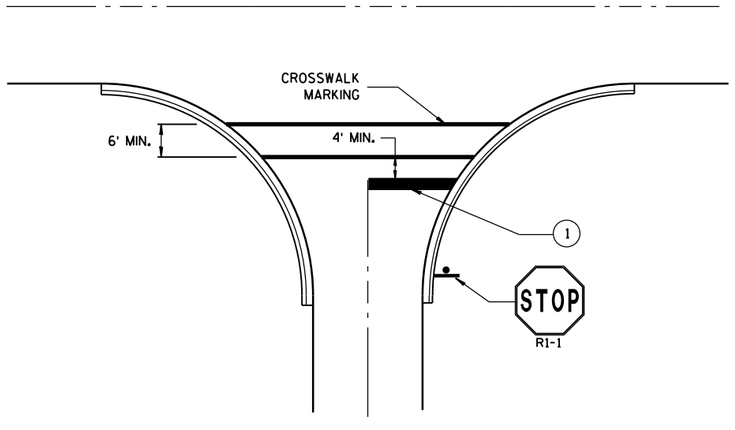
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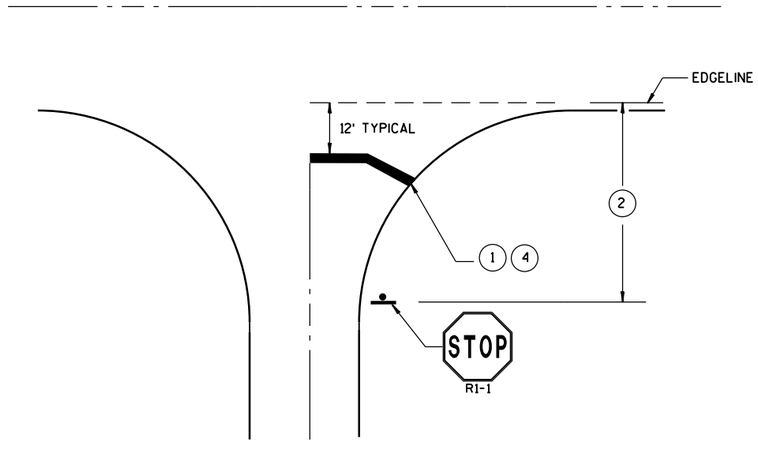
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

(1) 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.

(2) IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.

(3) IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.

(4) MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

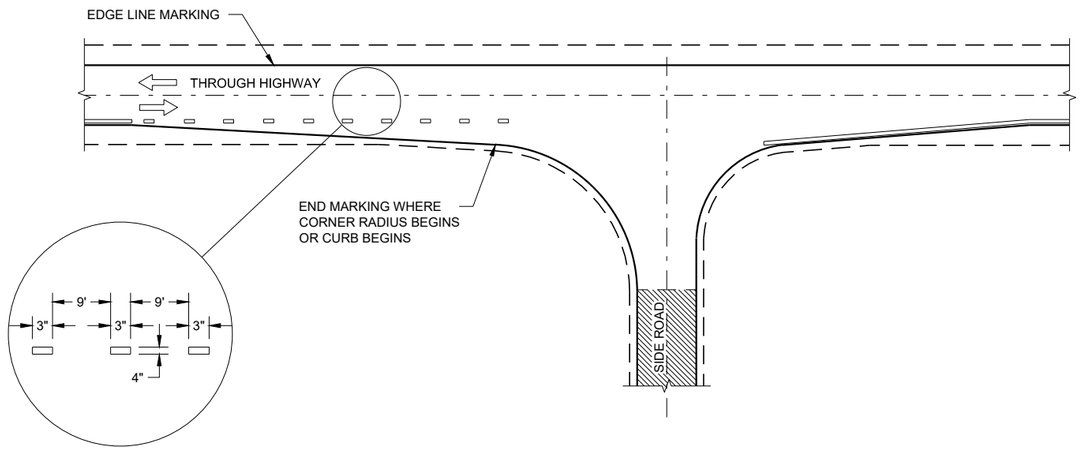
Sept., 2017 — DATE

/S/ Matthew R. Rauch — STATE SIGNING AND MAR[illegible]

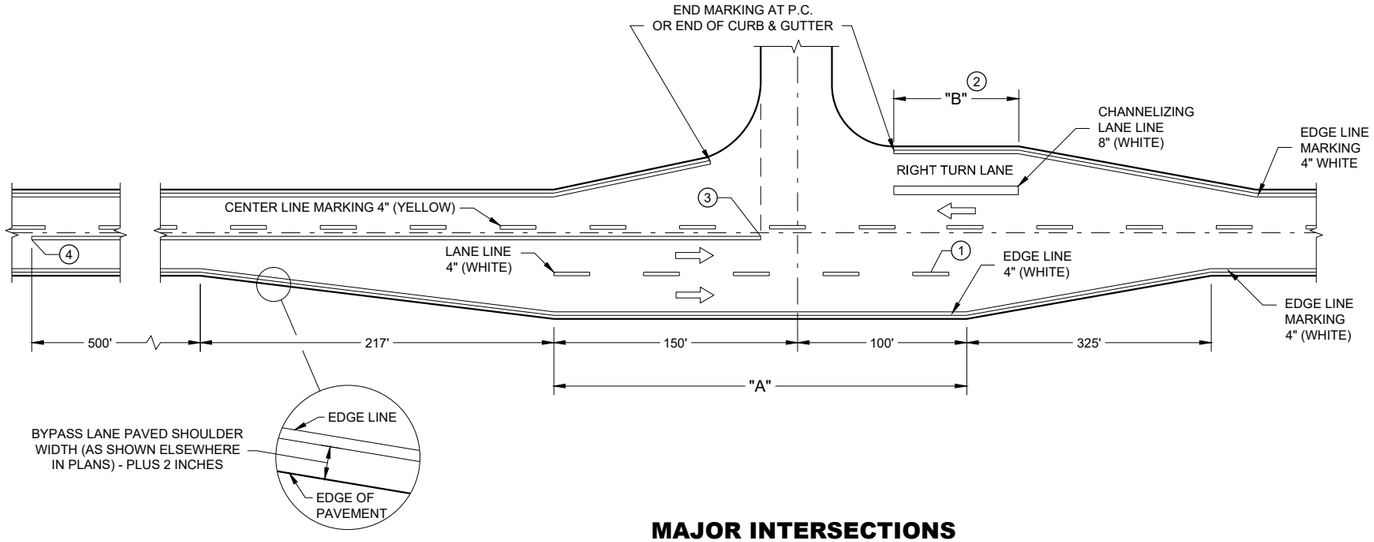
FHWA

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S.D.D. 15 C 33-3



MINOR INTERSECTION



MAJOR INTERSECTIONS

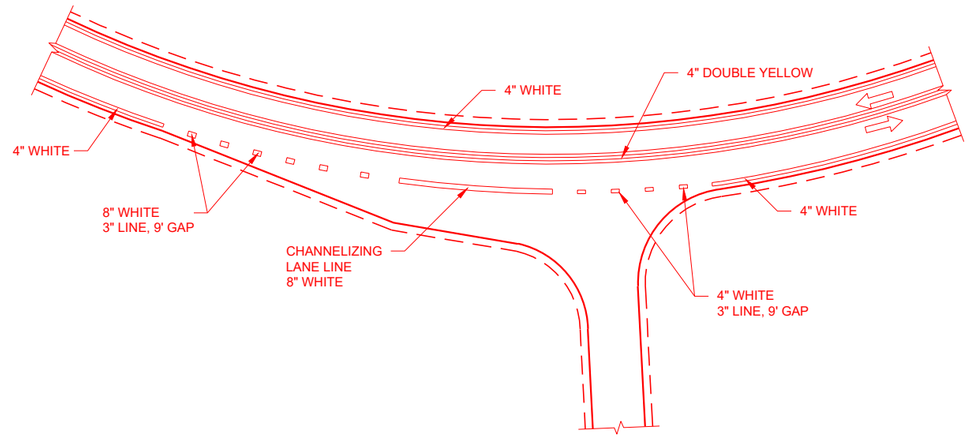
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

1. WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
2. WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
3. BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
4. BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE

PAVEMENT MARKING (INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15C35 - 03a

6

SDD 15C35 - 03a

LEGEND

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

GENERAL NOTES

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 SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING SIGNS.

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

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

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.

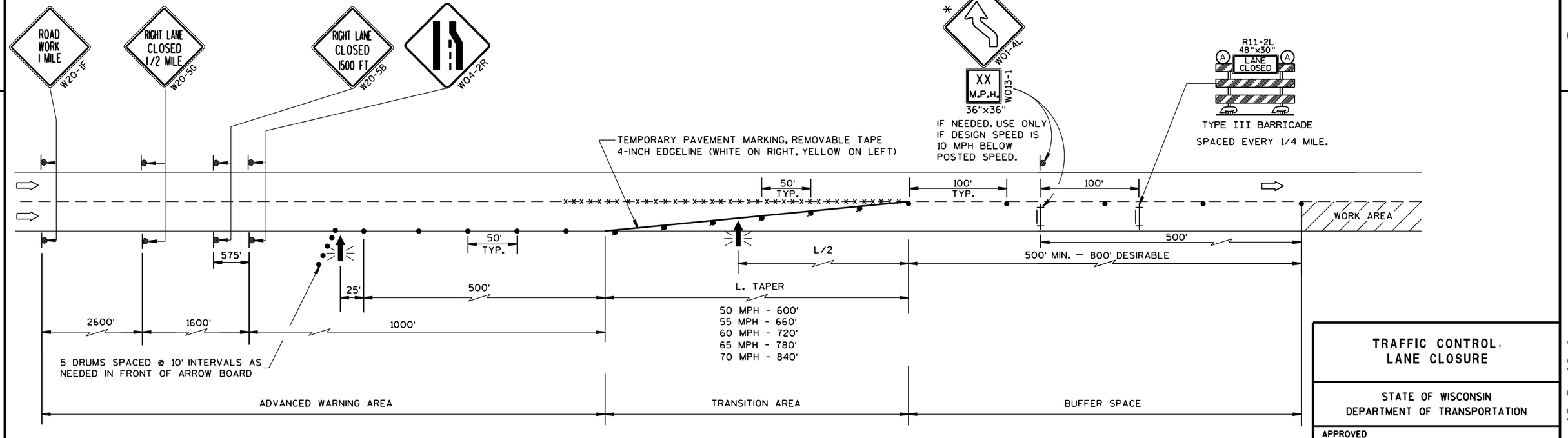
REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

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. THE LANE CLOSURE MUST 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 1/2 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.

* THE LEFT REVERSE CURVE SIGN (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.



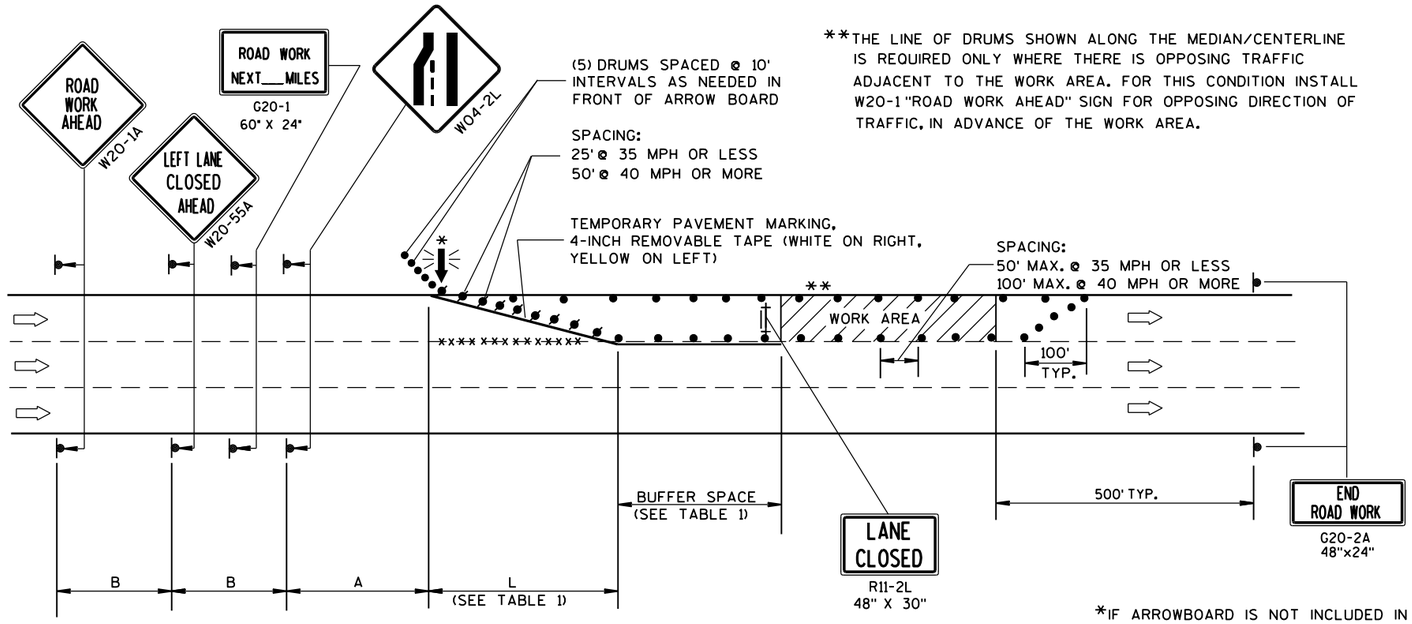
TRAFFIC CONTROL, LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2016 — DATE
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

6

S.D.D. 15 D 12-6a



**THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF TRAFFIC, IN ADVANCE OF THE WORK AREA.

B=400' AT 25-30 MPH
700' AT 35-40 MPH
1000' AT 45-55 MPH

A=200' AT 25-30 MPH
350' AT 35-40 MPH
500' AT 45-55 MPH

(PLACE BARRICADE AND SIGN APPROX. EVERY 1000' ACROSS THE CLOSED LANE)

*IF ARROWBOARD IS NOT INCLUDED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE A TYPE III BARRICADE WITH W01-6 SIGN IN THE LANE CLOSURE TAPER.

W01-6
48"x24"

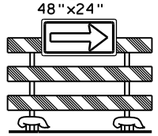


TABLE 1
TAPER AND BUFFER SPACE FOR 12' LANE WIDTH

S	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

LEGEND

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

GENERAL NOTES

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.

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 DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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 DISTRICT TRAFFIC UNIT.

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

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 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.

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.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

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.

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

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

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

BARRICADES IN A CLOSED LANE 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.

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
FHWA

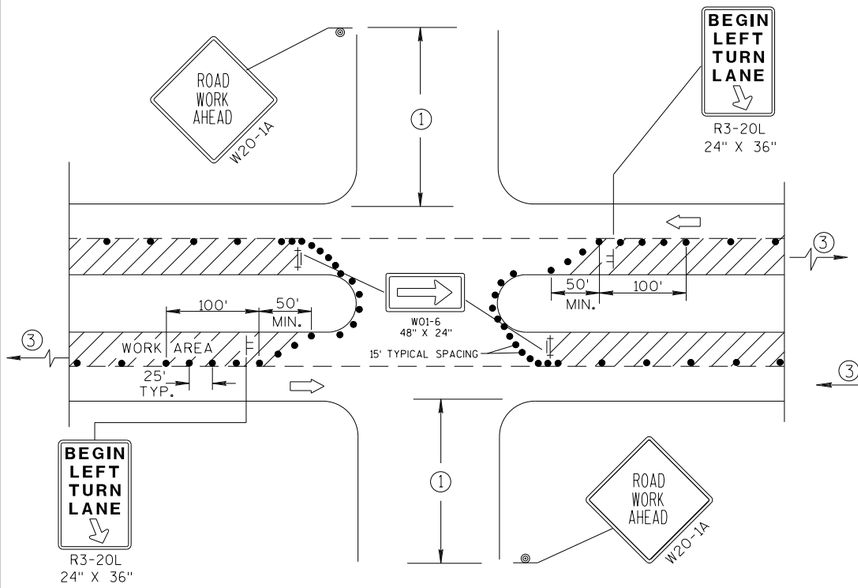
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE SAFETY ENGINEER

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S.D.D. 15 D 20-4

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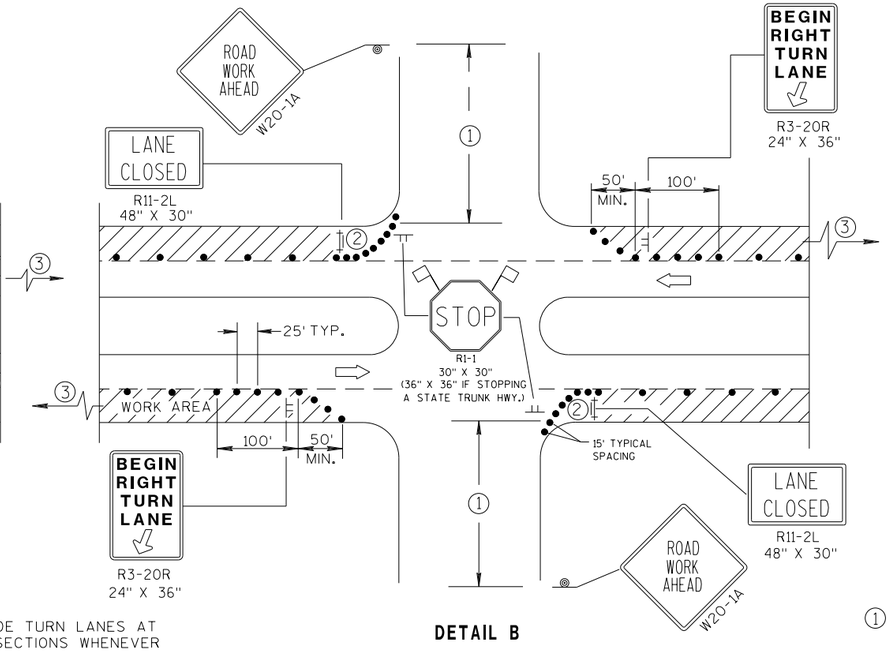
S.D.D. 15 D 20-4



DETAIL A

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



DETAIL B

FOR RIGHT LANE CLOSURE AT INTERSECTION

GENERAL NOTES

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 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.

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 DISTRICT TRAFFIC UNIT.

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

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

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 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.

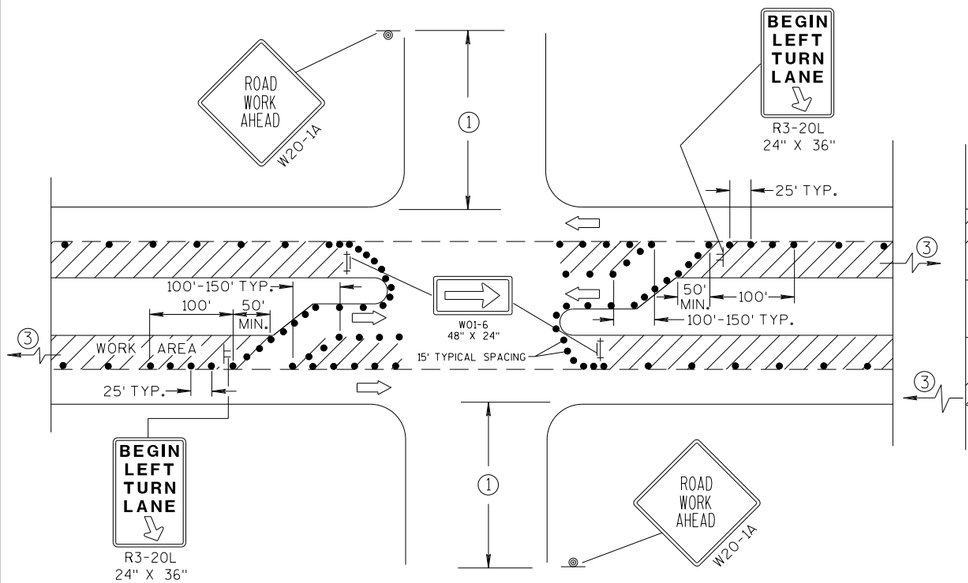
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE 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.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35-40 MPH.
200' IF 25-30 MPH.

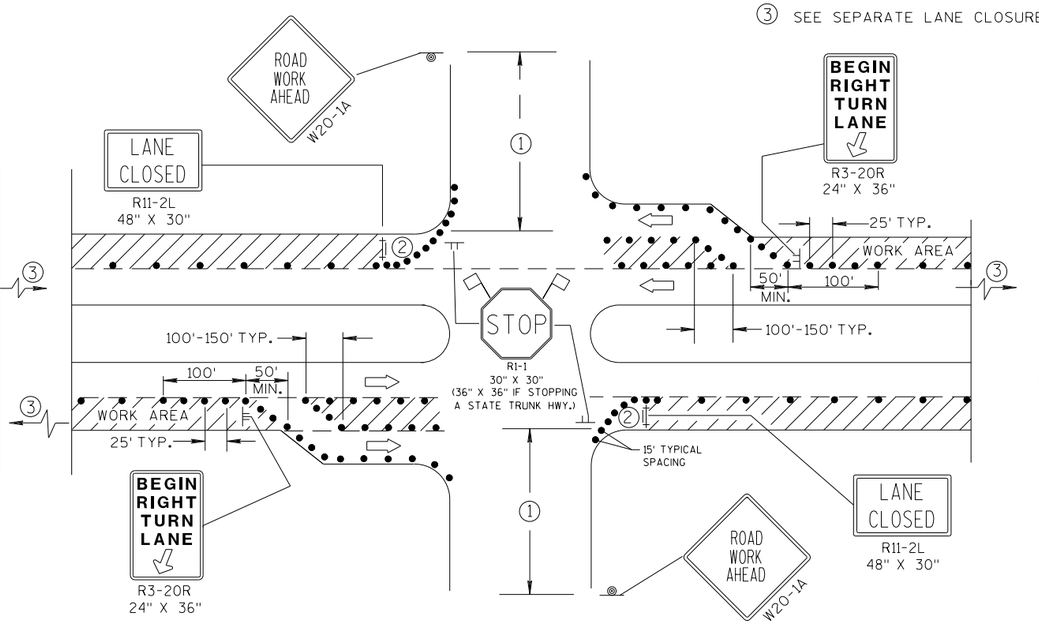
(2) ALSO USE BARRICADE AND 15-FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS.

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.



DETAIL C

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)



DETAIL D

FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT (5' MIN. MOUNTING HEIGHT)
- TYPE III BARRICADE WITH ATTACHED SIGN AND TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., (ORANGE)
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Andrew Heldtke
WORK ZONE ENG

FHWA

6

S.D.D. 15 D 21-6

GENERAL NOTES

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

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

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

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.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.

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

TABLE A

SHOULDER TAPER LENGTH (FEET)					BUFFER SPACE (FEET)
S \ W	4	6	8	10	
30	20	30	40	50	200
35	30	45	55	70	250
40	40	55	75	90	305
45	60	90	120	150	360
50	70	100	135	170	425
55	75	110	150	185	495

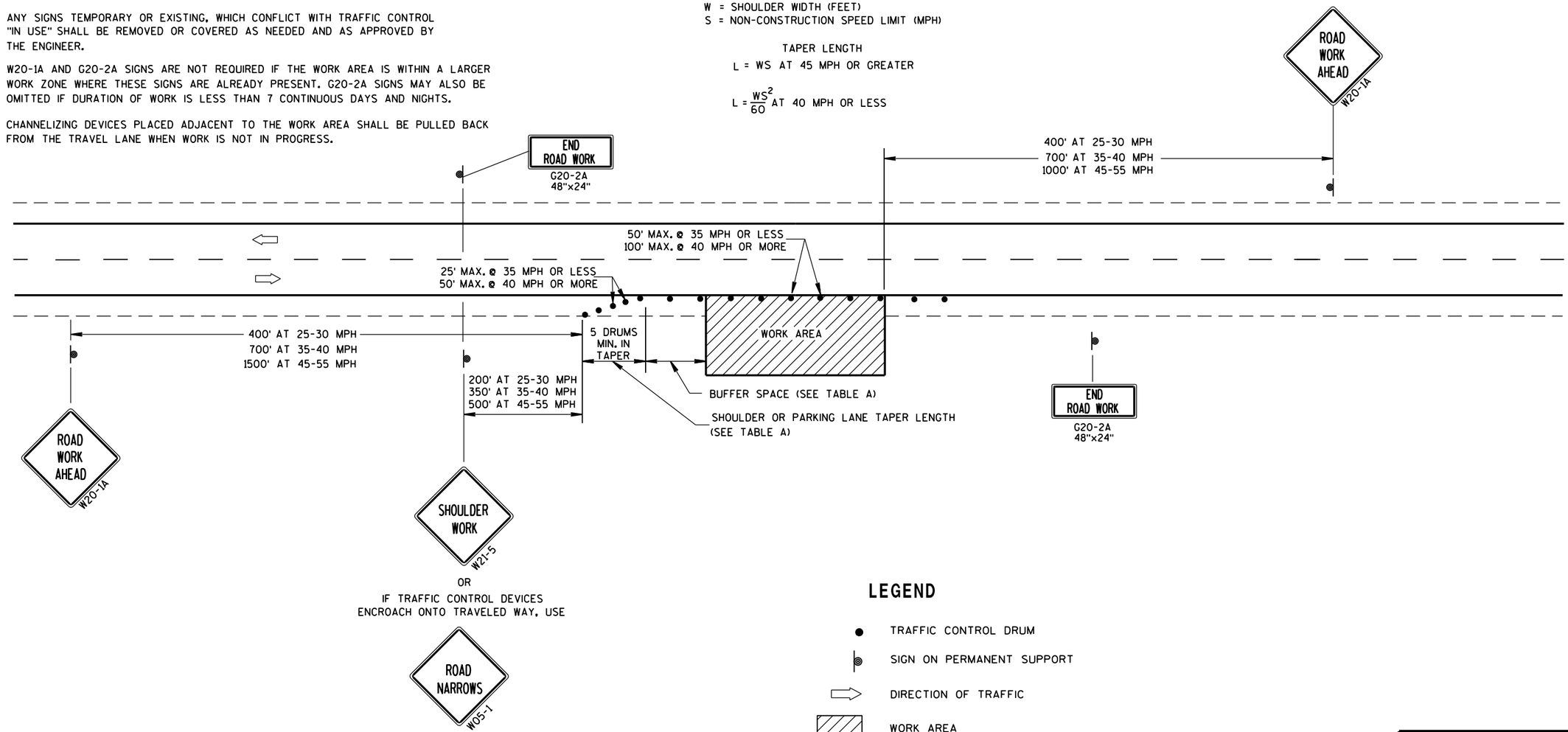
W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

SHOULDER TAPER LENGTH = $\frac{1}{3}L$



LEGEND

- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

July 14, 2015 — DATE

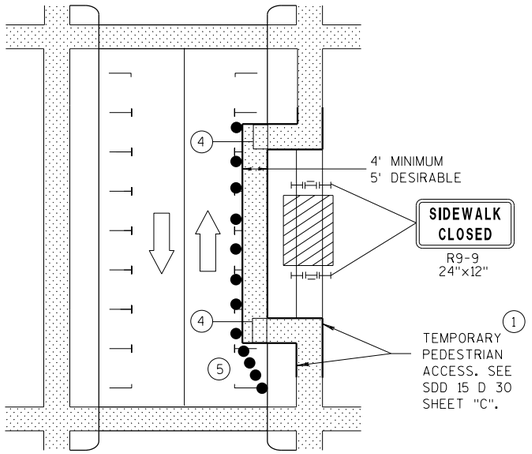
/S/ Peter Amakobe Atepe
STATEWIDE WORK ZO[illegible] SAFETY ENGI[illegible]

FHWA

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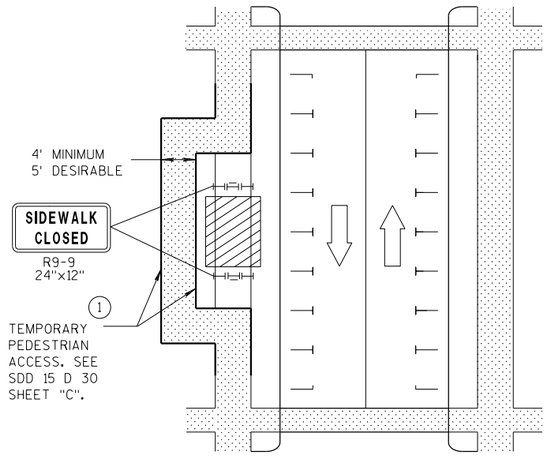
S.D.D. 15 D 28-3

NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

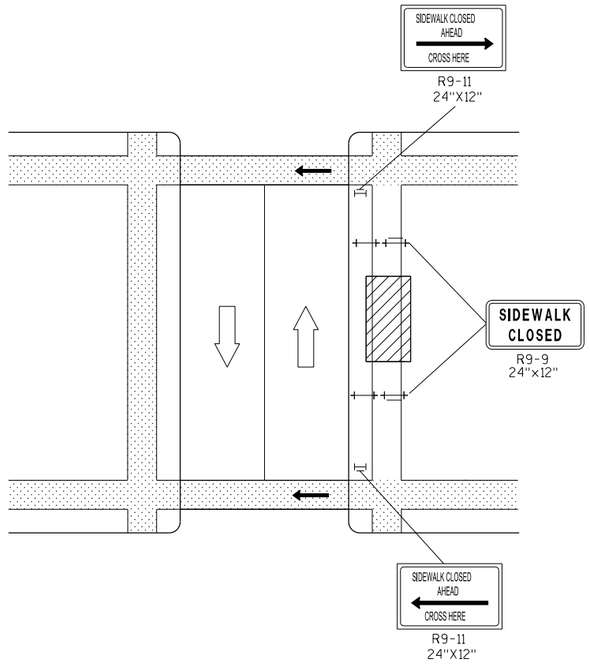


MID-BLOCK SIDEWALK CLOSURE IN PARKING LANE

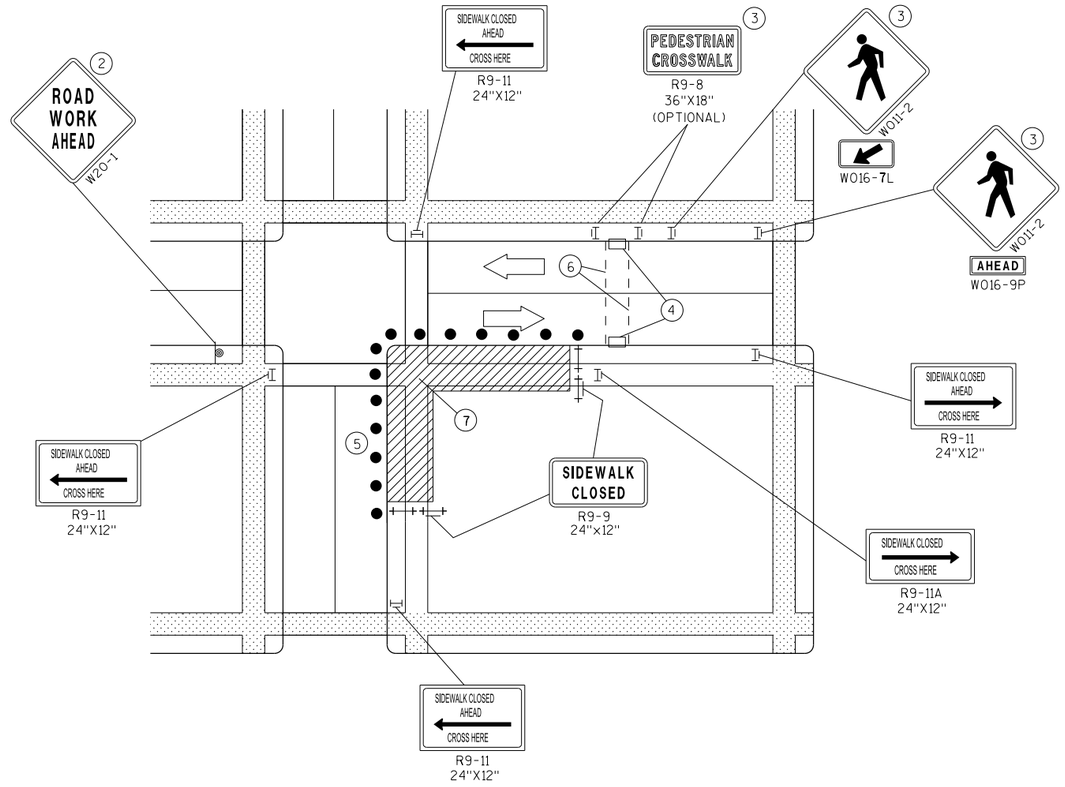
NOTE: LAYOUT SAME AS ABOVE.



SIDEWALK DIVERSION



MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK, AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

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

FOR NIGHTTIME CLOSURE USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

(1) IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE.

(2) "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.

(3) IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND W011-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.

(4) TEMPORARY CURB RAMPS. SEE SDD 15 D 30 SHEET "B".

(5) DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.

(6) TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.

(7) LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

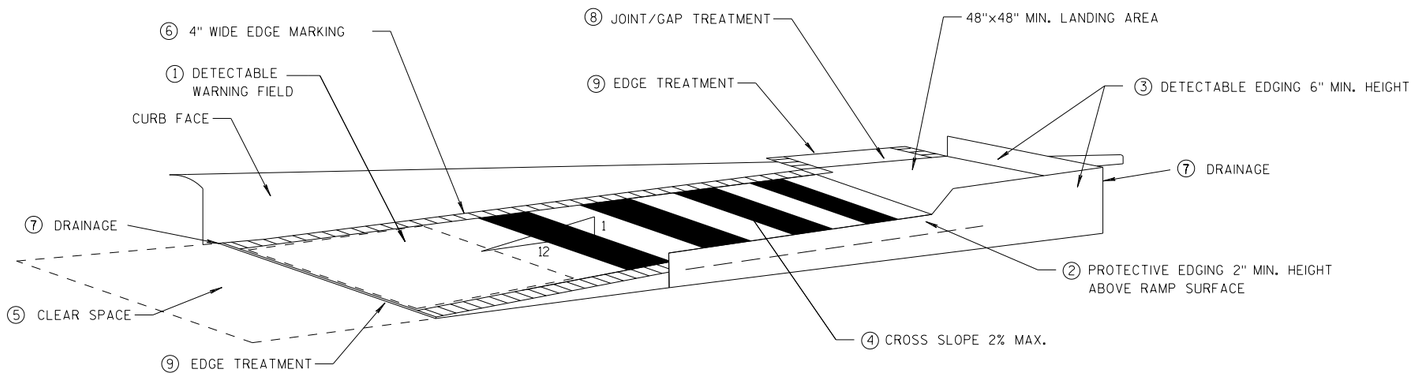
LEGEND

- SIGN ON PERMANENT SUPPORT
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- DIRECTION OF TRAFFIC
- TRAFFIC CONTOL DRUM

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

6

S.D.D. 15 D 30-4a



TEMPORARY CURB RAMP PARALLEL TO CURB

GENERAL NOTES

NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

① CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 8D5 SHEET "E".

② PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

③ DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).

④ CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

⑤ CLEAR SPACE OF 48"X48" MIN. SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

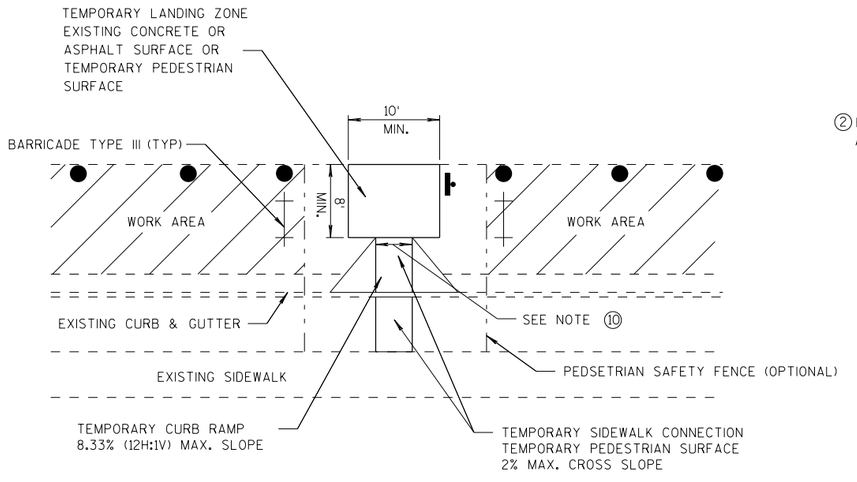
⑥ THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.

⑦ DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.

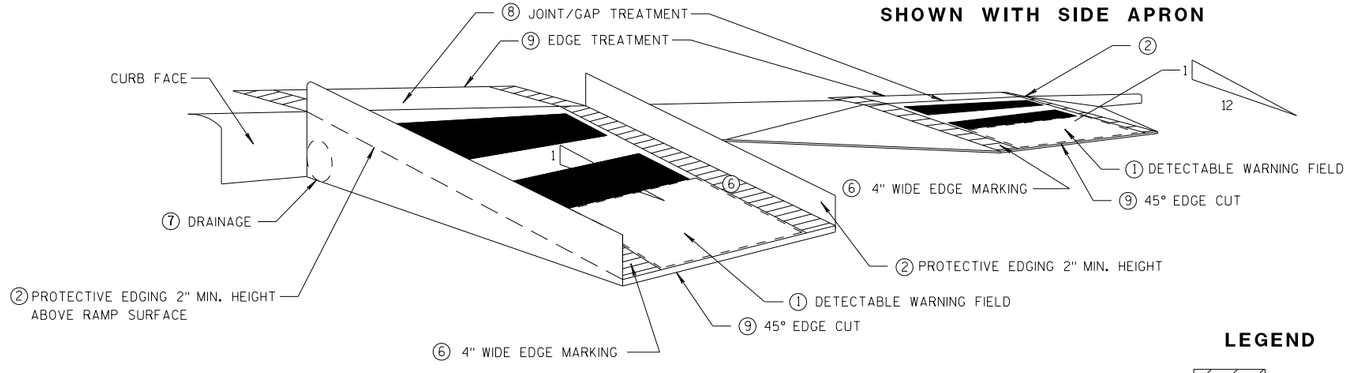
⑧ LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN 1/2" WIDTH.

⑨ CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED 1/2". LATERAL EDGES SHALL BE VERTICAL UP TO 1/4" HIGH, AND BEVELED AT 1:2 BETWEEN 1/4" AND 1/2".

⑩ 5' WIDE MIN. WITH PEDSETRIAN SAFETY FENCE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY FENCE.



TEMPORARY BUS STOP PAD



SHOWN WITH PROTECTIVE EDGE

TEMPORARY CURB RAMP PERPENDICULAR TO CURB

LEGEND

WORK AREA

TYPE III BARRICADE

TRAFFIC CONTOL DRUM

TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

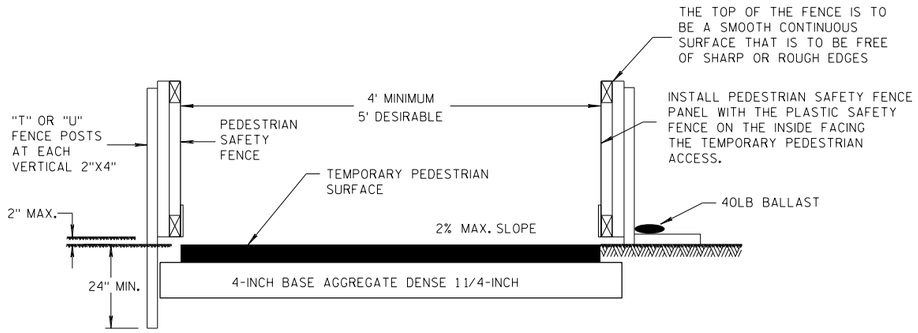
7/2018 DATE

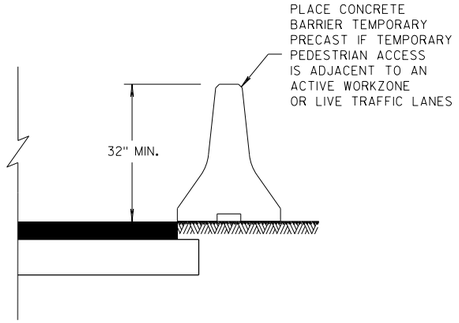
/S/ Andrew Heidtke
WORK ZONE ENG

FHWA

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S.D.D. 15 D 30-4b

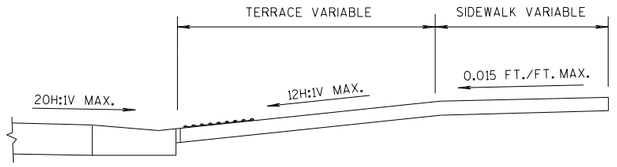




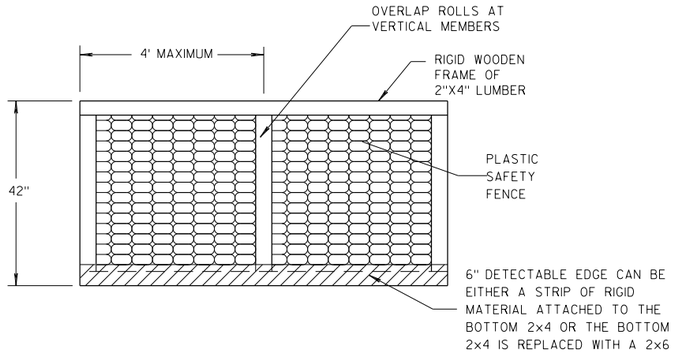
TEMPORARY PEDESTRIAN ACCESS

GENERAL NOTES

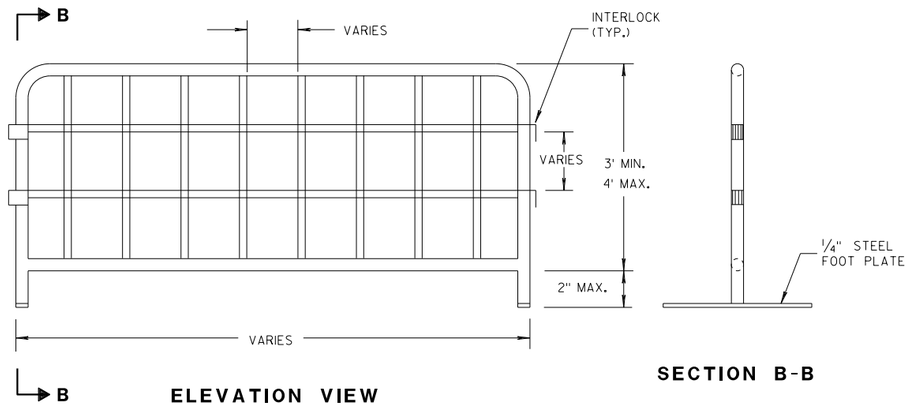
(1) INTERCHANGEABLE WITH THE PEDESTRIAN SAFETY FENCE.



SECTION A-A



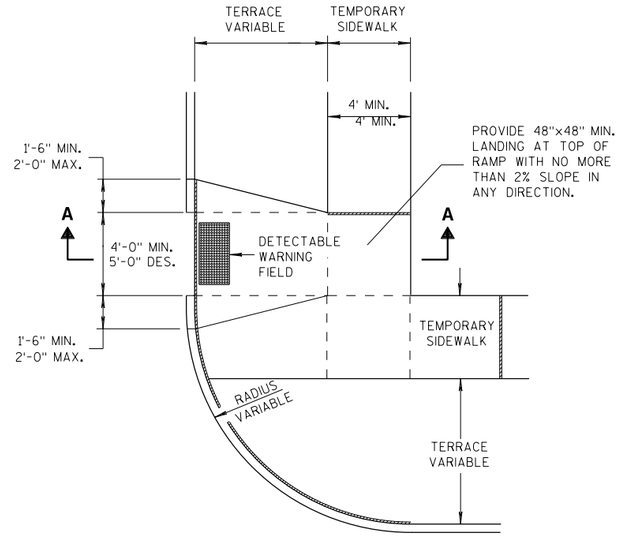
PEDESTRIAN SAFETY FENCE



ELEVATION VIEW

SECTION B-B

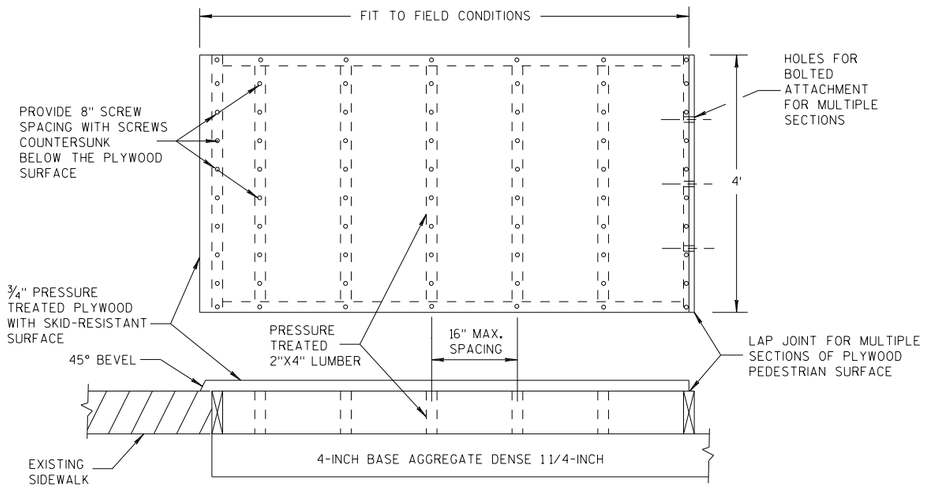
TEMPORARY PEDESTRIAN STEEL BARRICADE (1)



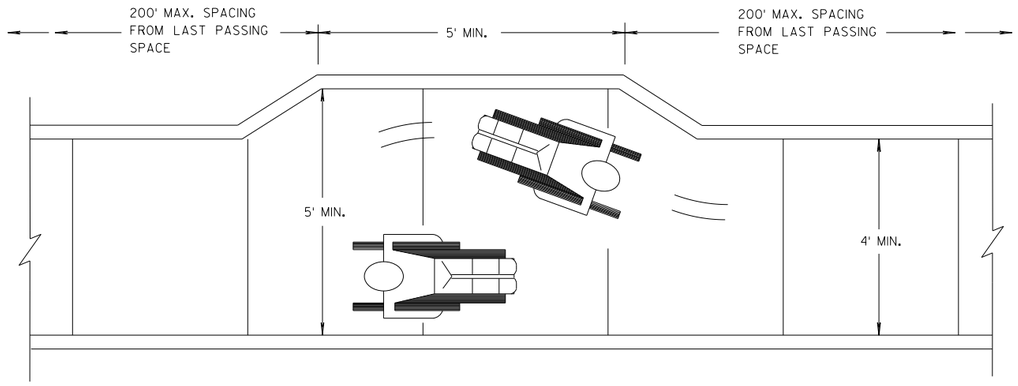
PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)



TEMPORARY PEDESTRIAN SURFACE PLYWOOD



NARROW SIDEWALK PASSING DETAIL

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENG

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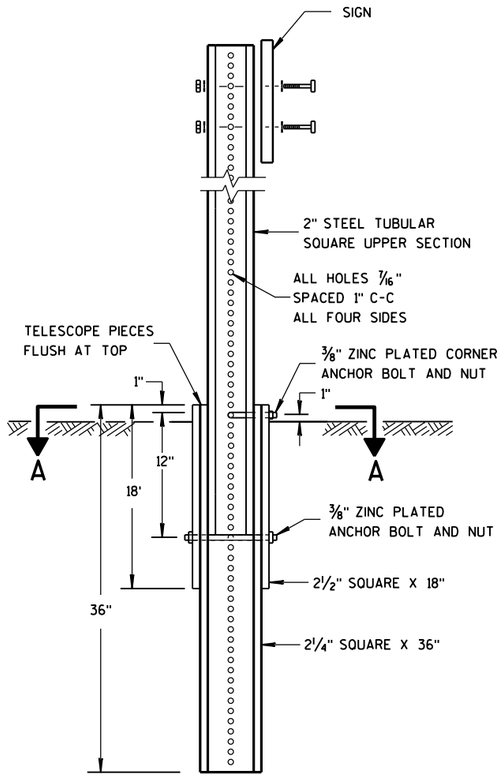
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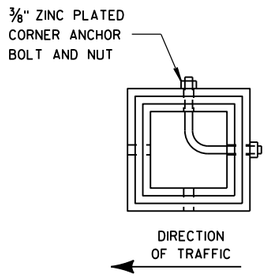
S.D.D. 15 D 30-4c

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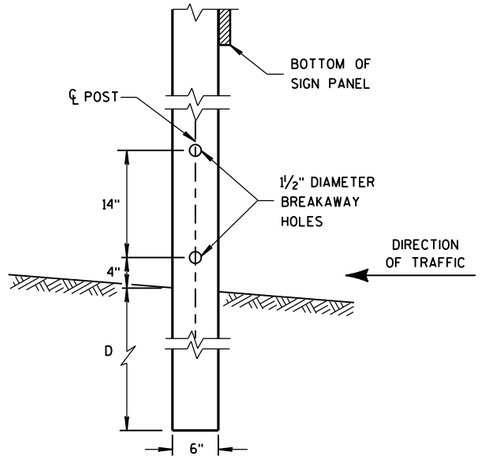
S.D.D. 15 D 30-4c



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



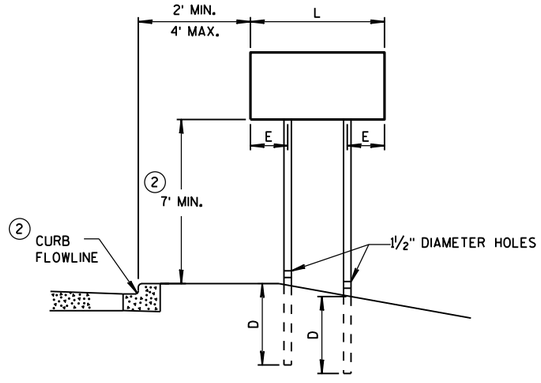
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

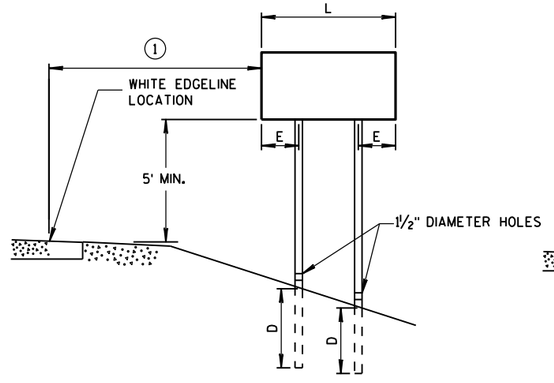
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

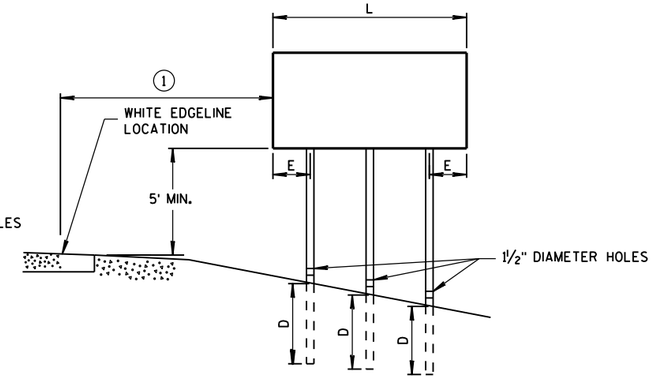
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

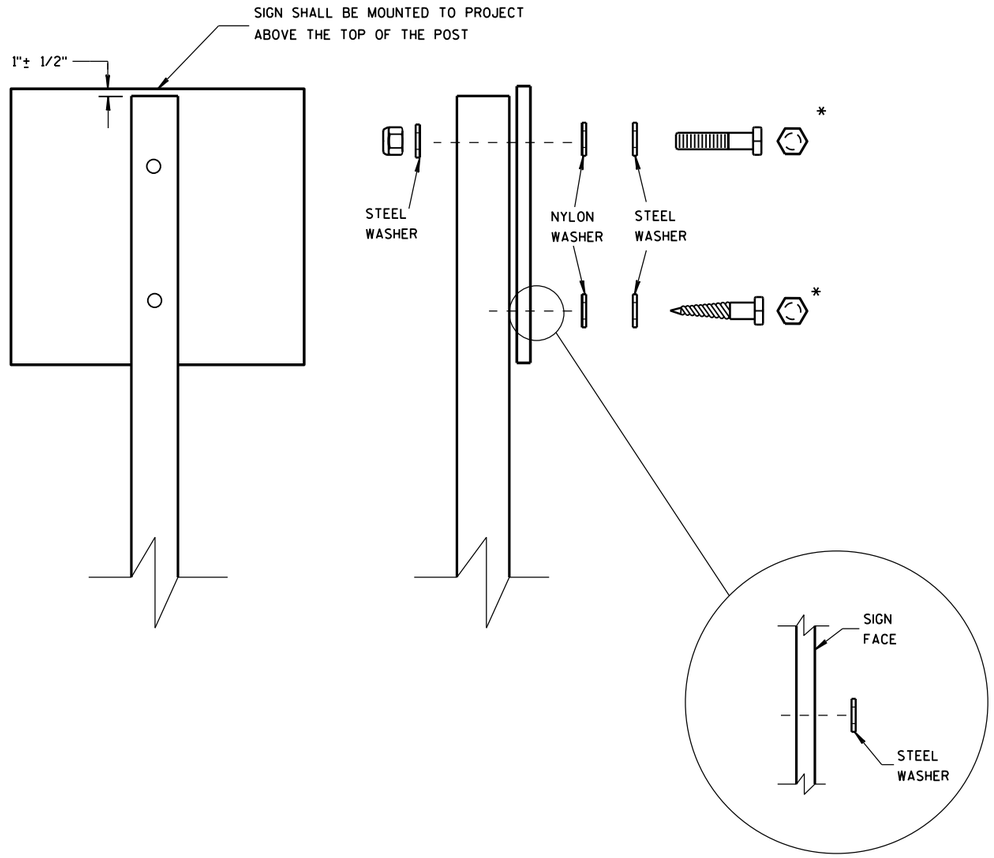
SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 15 D 38-2a



WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

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S.D.D. 15 D 38-2b

S.D.D. 15 D 38-2b

ATTACHMENT OF SIGNS TO POSTS

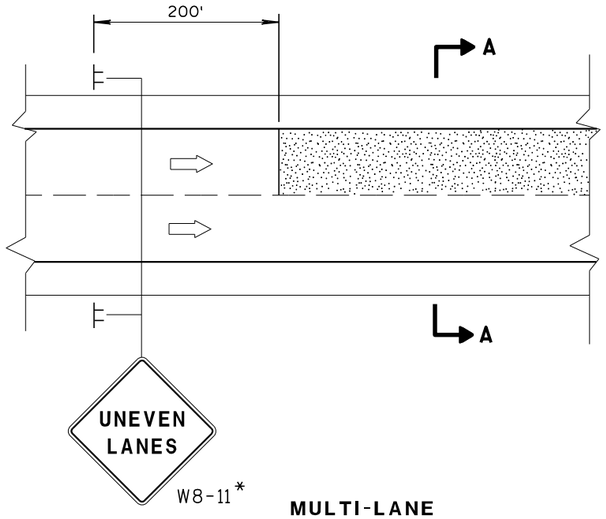
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

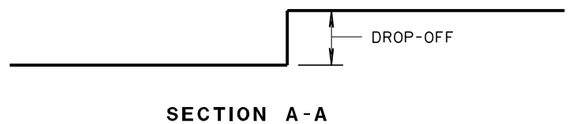
June 2017
DATE

/S/ Andrew Heldtke
WORK ZONE ENG

FHWA



MULTI-LANE

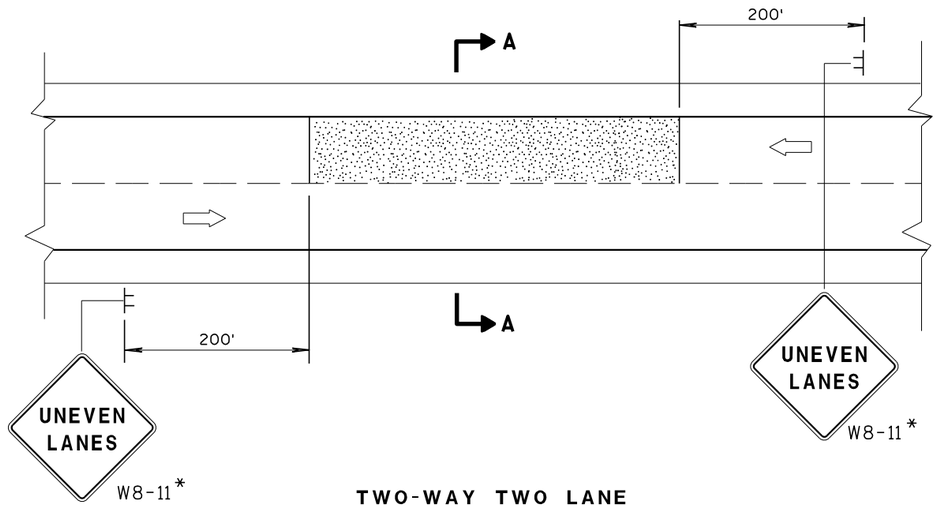


SECTION A-A

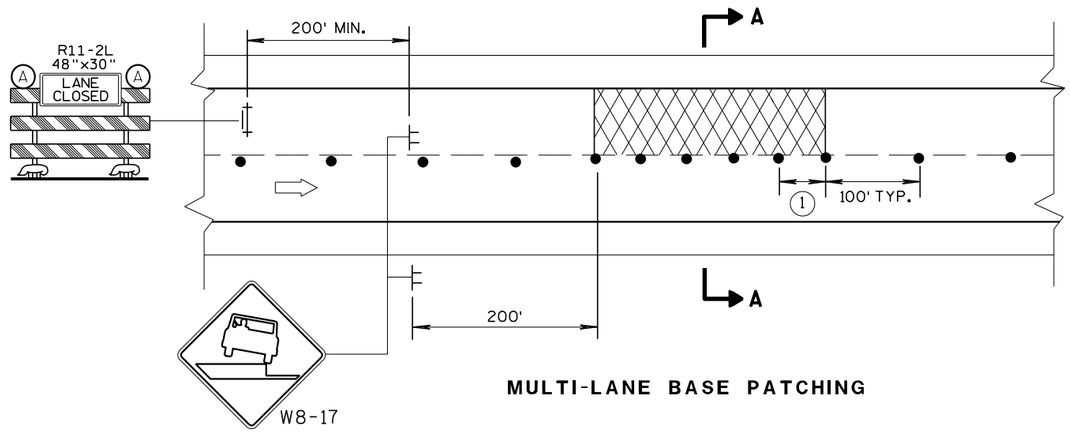
OR



SECTION A-A

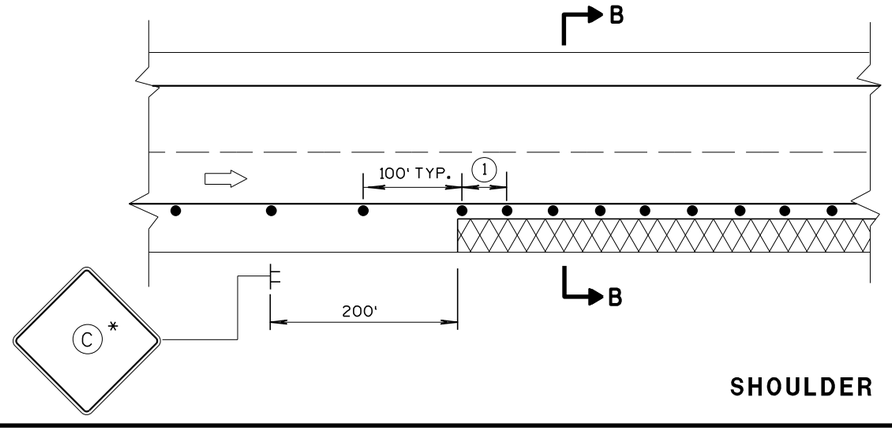


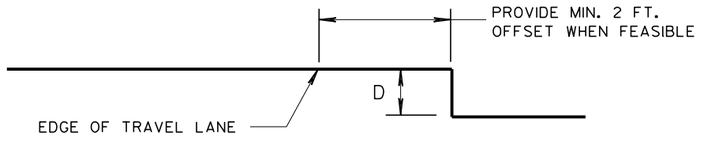
TWO-WAY TWO LANE



MULTI-LANE BASE PATCHING

ADJACENT LANE DROP-OFFS





SECTION B-B

SHOULDER DROP-OFFS

GENERAL NOTES

FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.

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

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

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

* IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY 1 MILE AND AFTER EACH ENTRANCE RAMP.

(1) USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA WITH DROP-OFF
- MILLED SURFACE

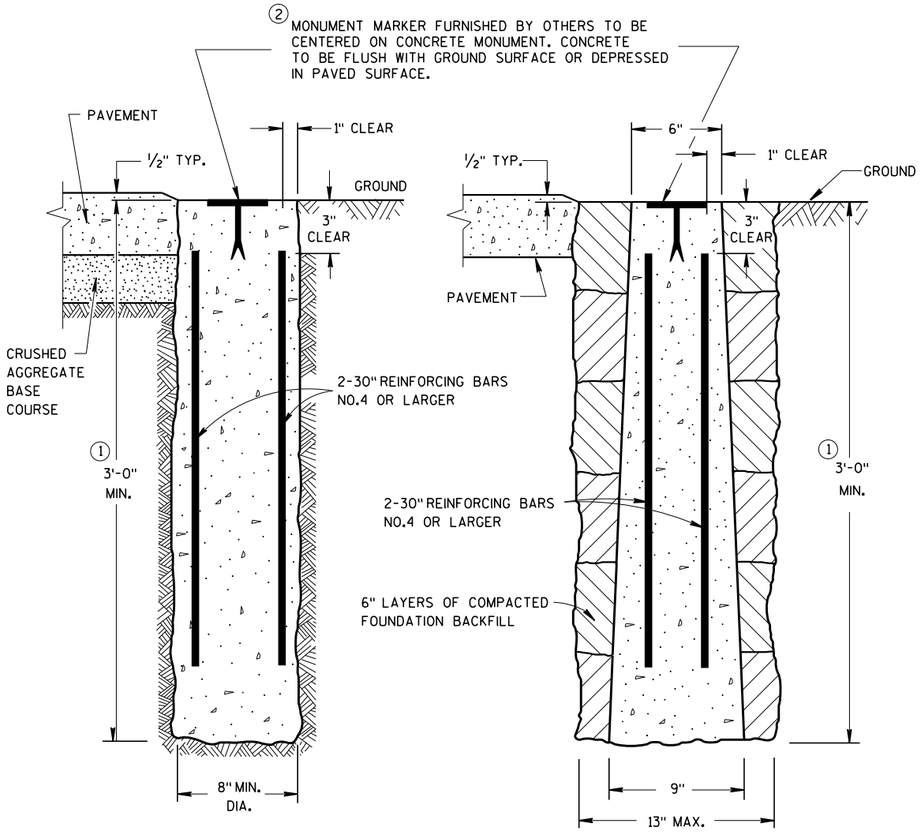
D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	LOW SHOULDER WO8-9
2" < 6" WITH A SLOPE STEEPER THAN 3:1	SHOULDER DROP-OFF W8-9A PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT

TRAFFIC CONTROL, DROP-OFF SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE
/S/ Andrew H
WORK ZONE EN
FHWA

6
S.D.D. 15 D 39-2

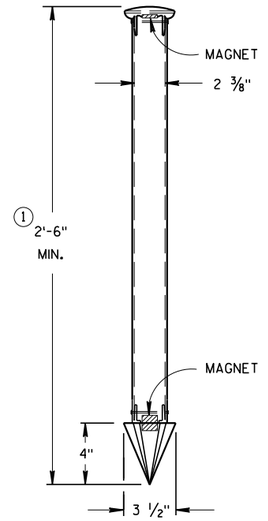


CAST-IN-PLACE

PRECAST

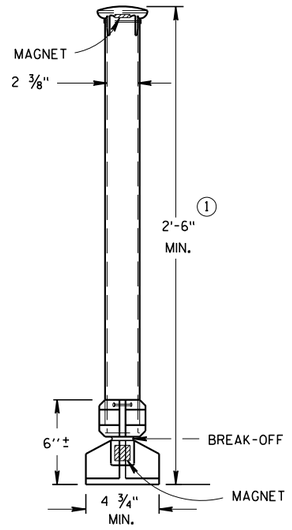
CONCRETE MONUMENTS

TYPE A



TYPE C

DRIVE-IN MONUMENT



TYPE D
NON-DRIVEN
BREAK-OFF MONUMENT

ALUMINUM MONUMENTS

(INCLUDES MARKER)

GENERAL NOTES

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

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

PERMANENT MAGNETS SHALL BE INSERTED NEAR THE TOP AND BOTTOM OF ALL ALUMINUM MONUMENTS SO THE MONUMENT CAN EASILY BE DETECTED BY A METAL DETECTOR.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

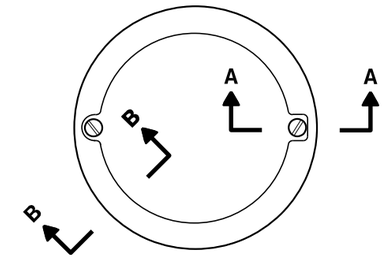
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

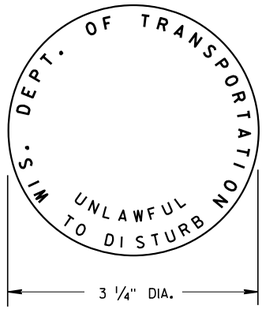
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.

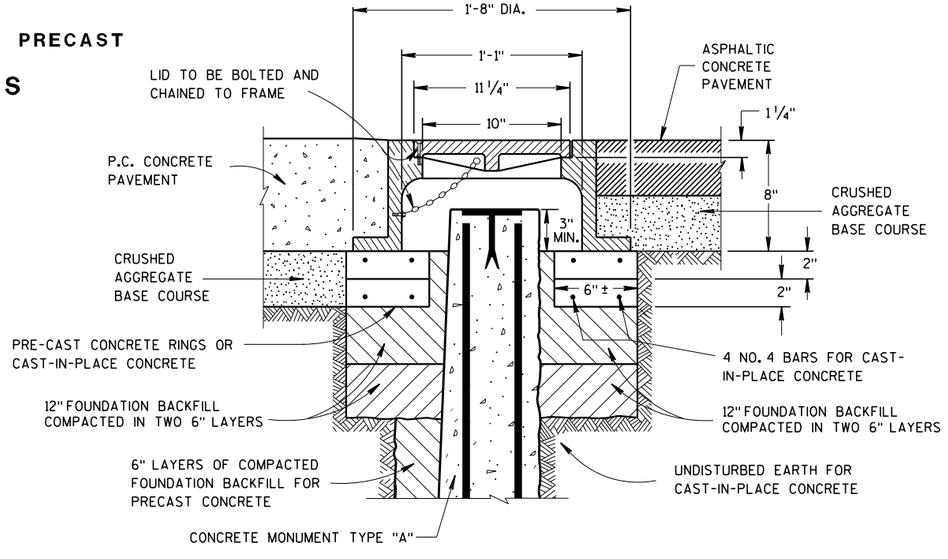


TOP VIEW



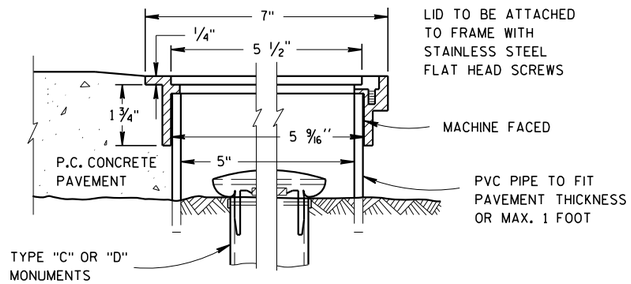
② WIS DOT MONUMENT MARKER LOGO

FOR TYPES "A", "C", & "D"



CAST IRON MONUMENT COVER

(APPROXIMATE WEIGHT 95 LBS)



SECTION B-B SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS)
(FOR CONCRETE PAVEMENT ONLY)

LANDMARK REFERENCE MONUMENTS AND COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Raymond A. Kumagai — CHIEF SURVEYING AND MAPPING ENGINEER
FHWA

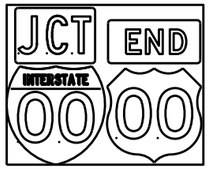
6

S.D.D. 16 A 1-7

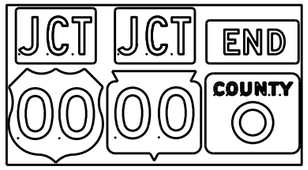
TYPICAL ASSEMBLIES



J1-1



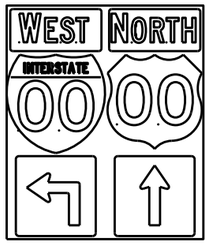
J1-2



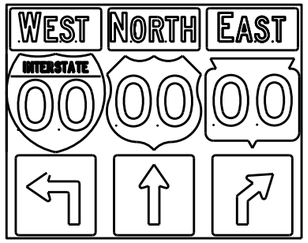
J1-3



J2-1



J2-2

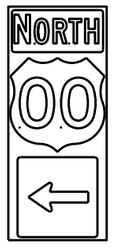


J2-3

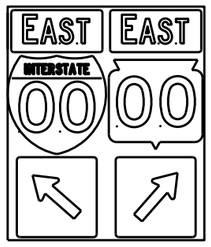


JV

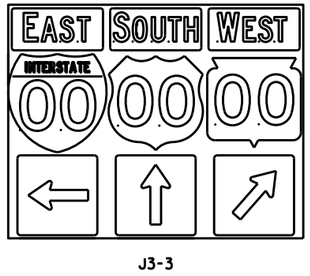
(Typical Vertical J-Assembly
See Note 10 and 11)



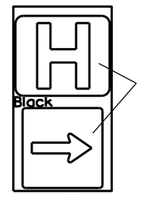
J3-1



J3-2



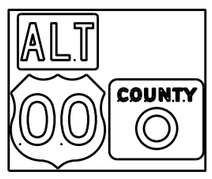
J3-3



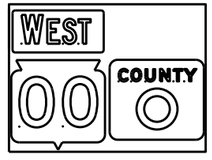
JH-1



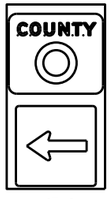
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1

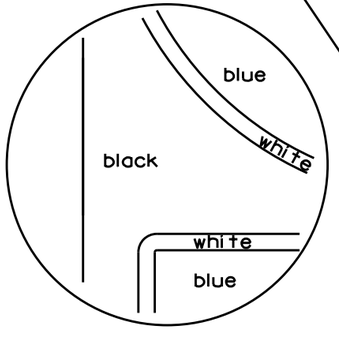


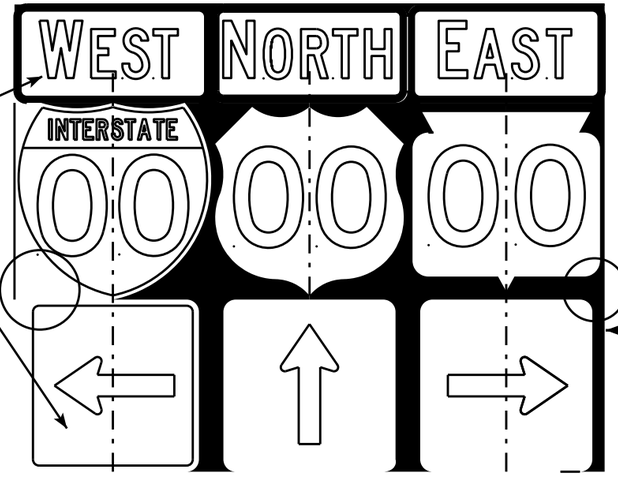
J23-1

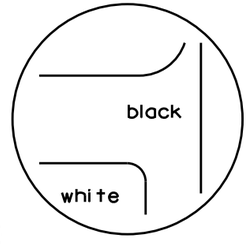


J22-1

[blue background with interstate]







[black background]

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

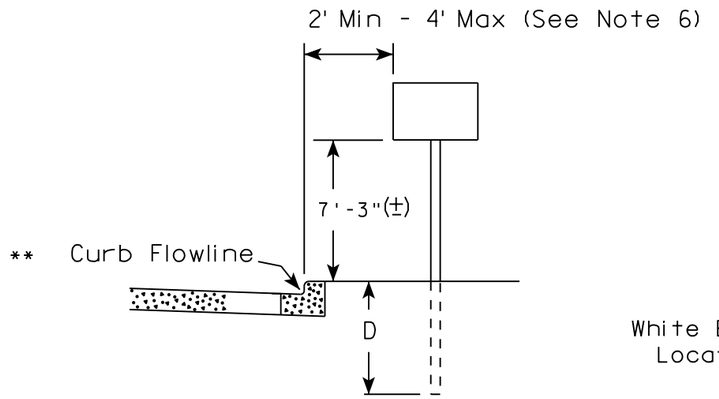
DATE 2/06/14 PL... A2-1S.8

PROJECT NO: | SHEET NO: E

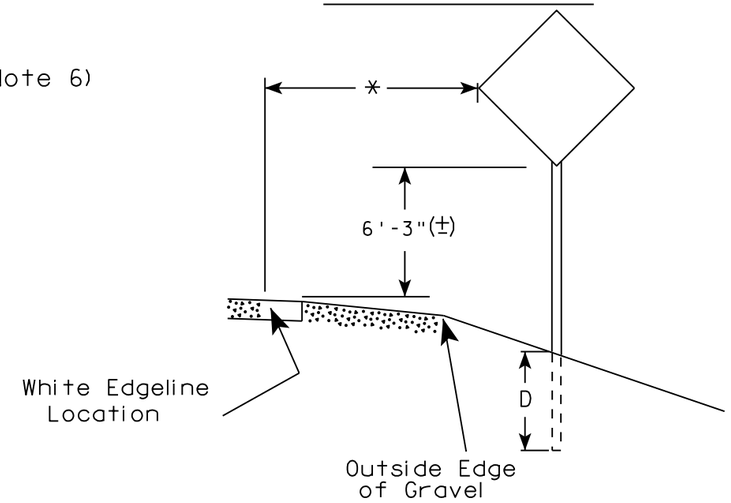
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :

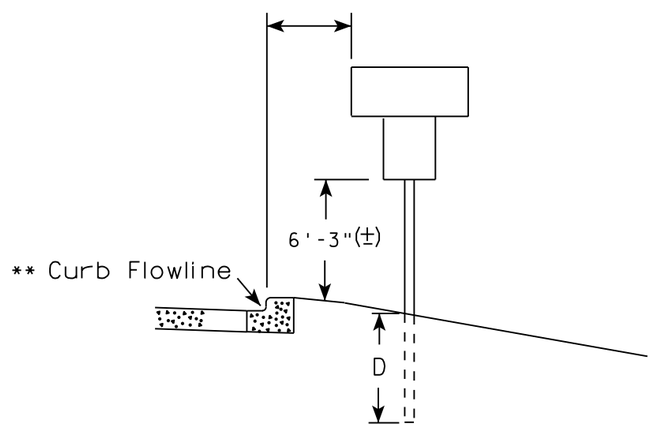
WISDOT/CADDS SHEET 42

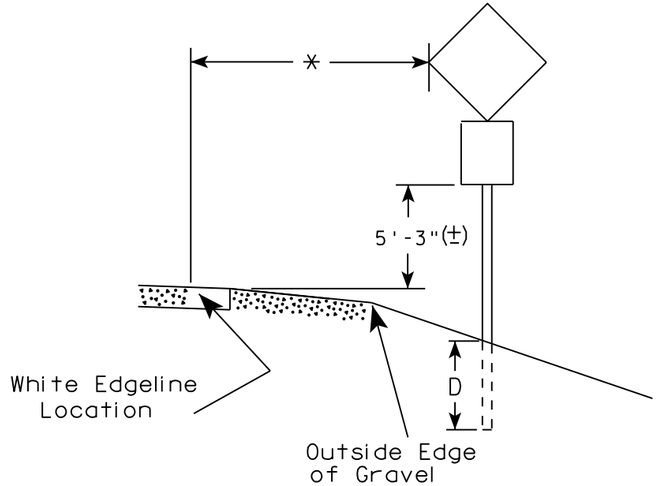
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. J-Assemblies are considered to be one sign for mounting height.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

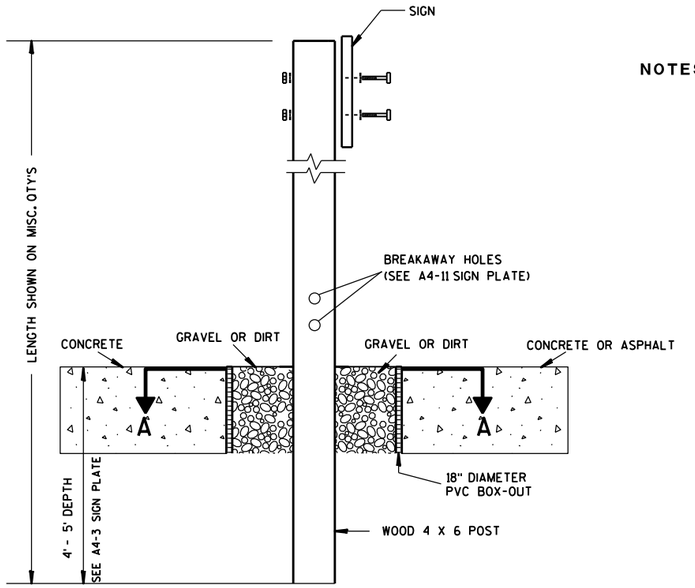
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

7

7

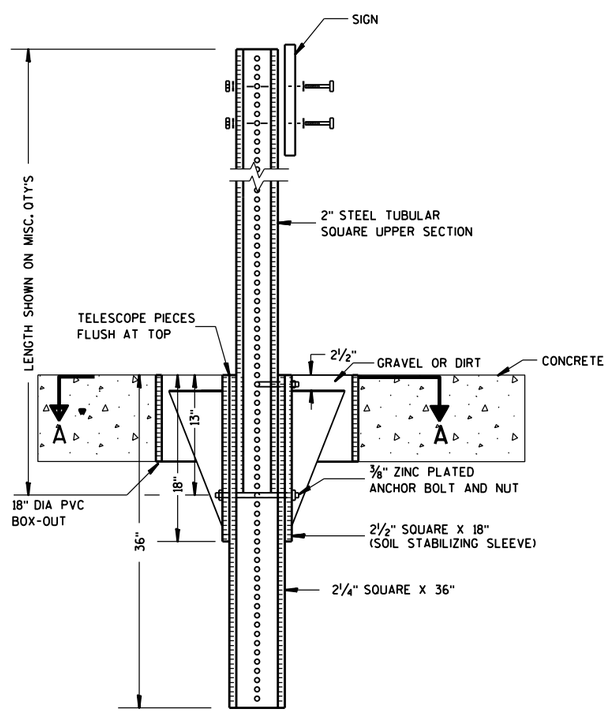
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 296	E



ELEVATION VIEW

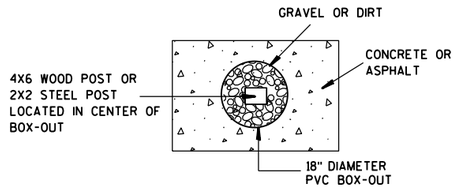
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

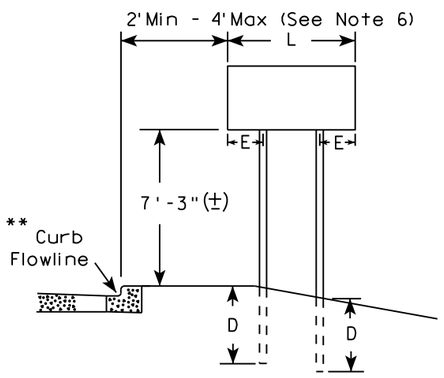
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

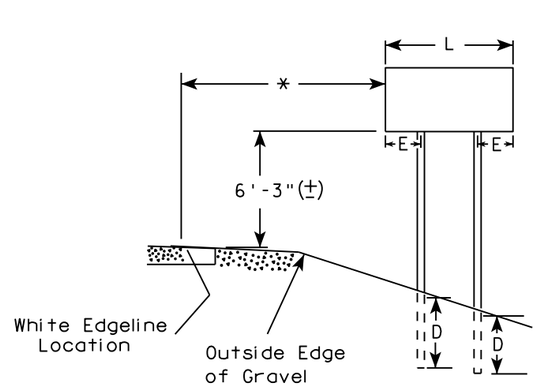
DATE 1/27/14 PLATE NO. A4-3B.1

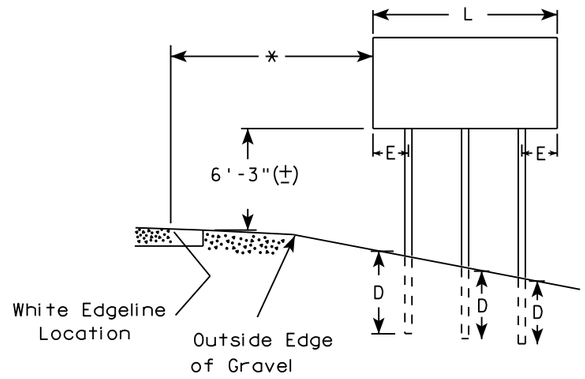
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

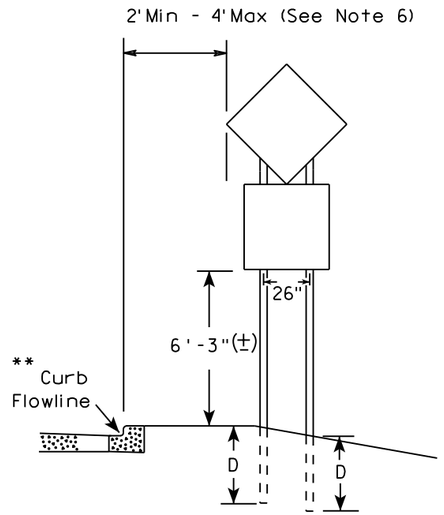
URBAN AREA



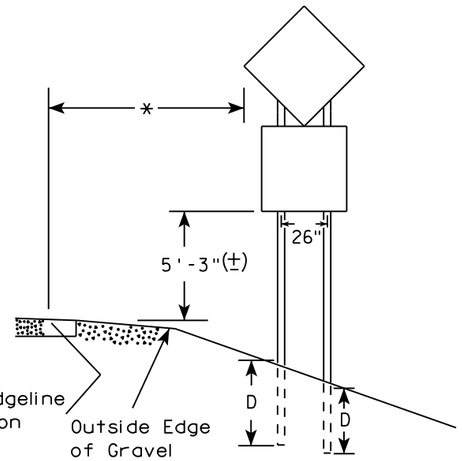
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E
***	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

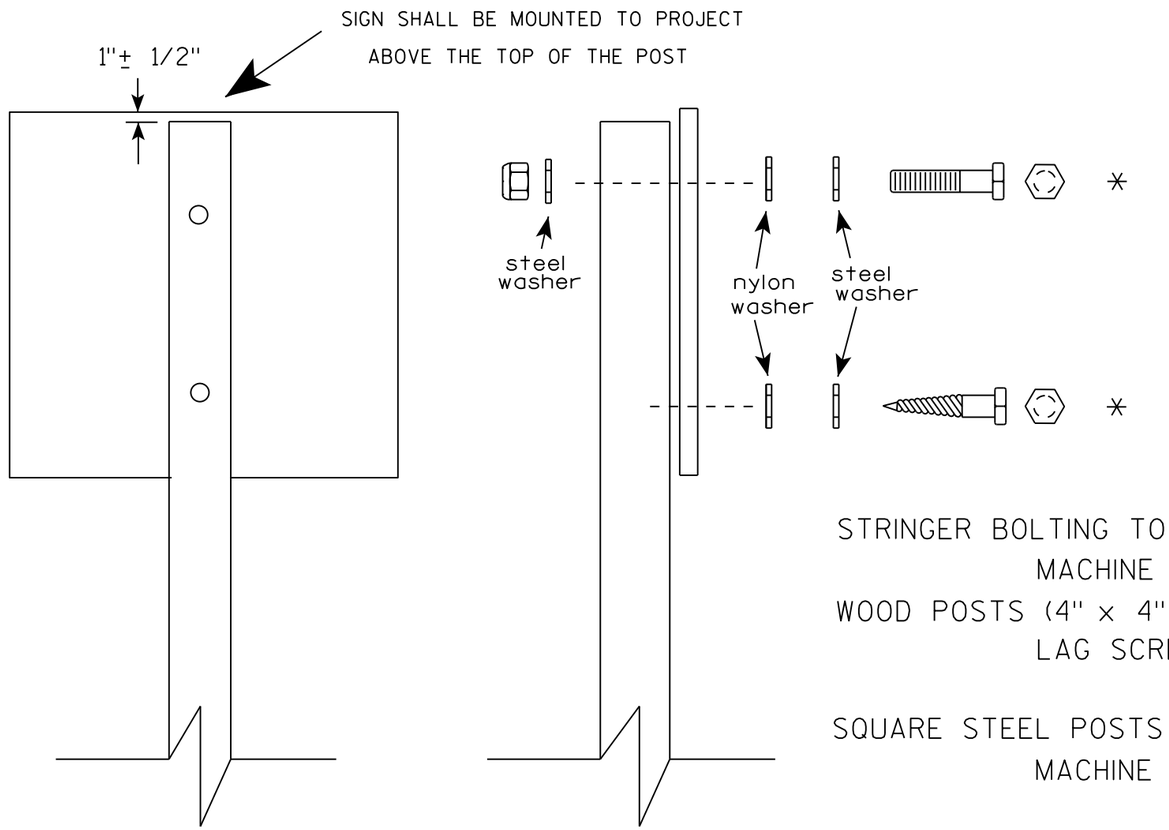
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-4.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 298	E



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)

3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)

3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

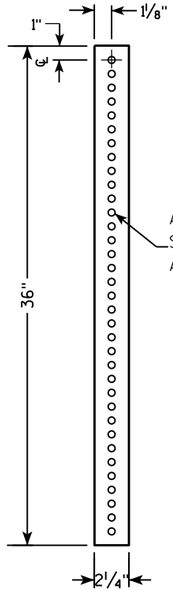
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

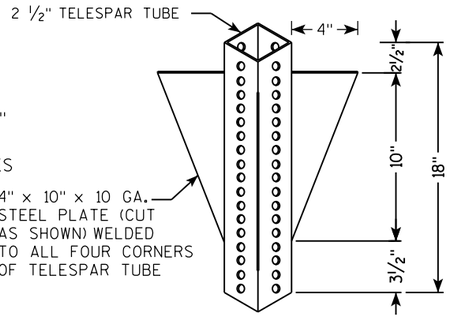
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

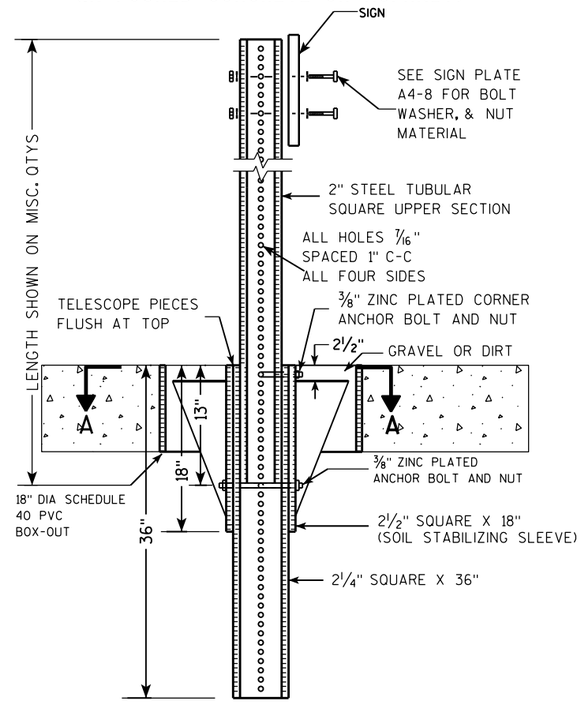
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



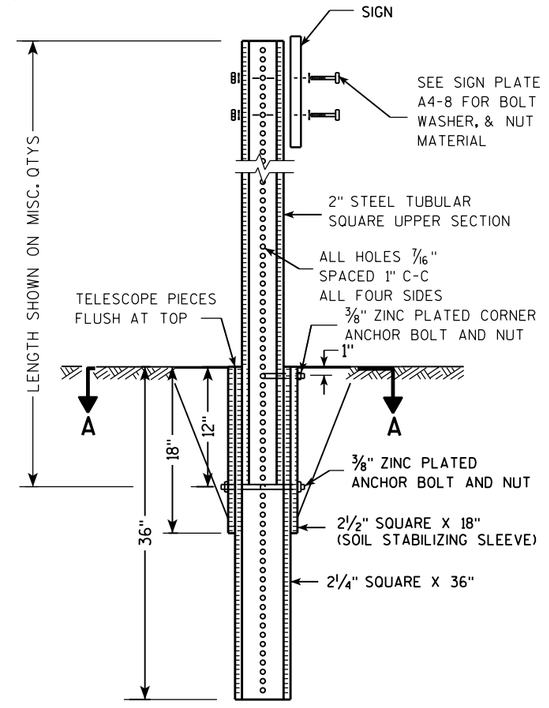
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

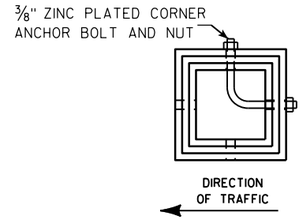


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

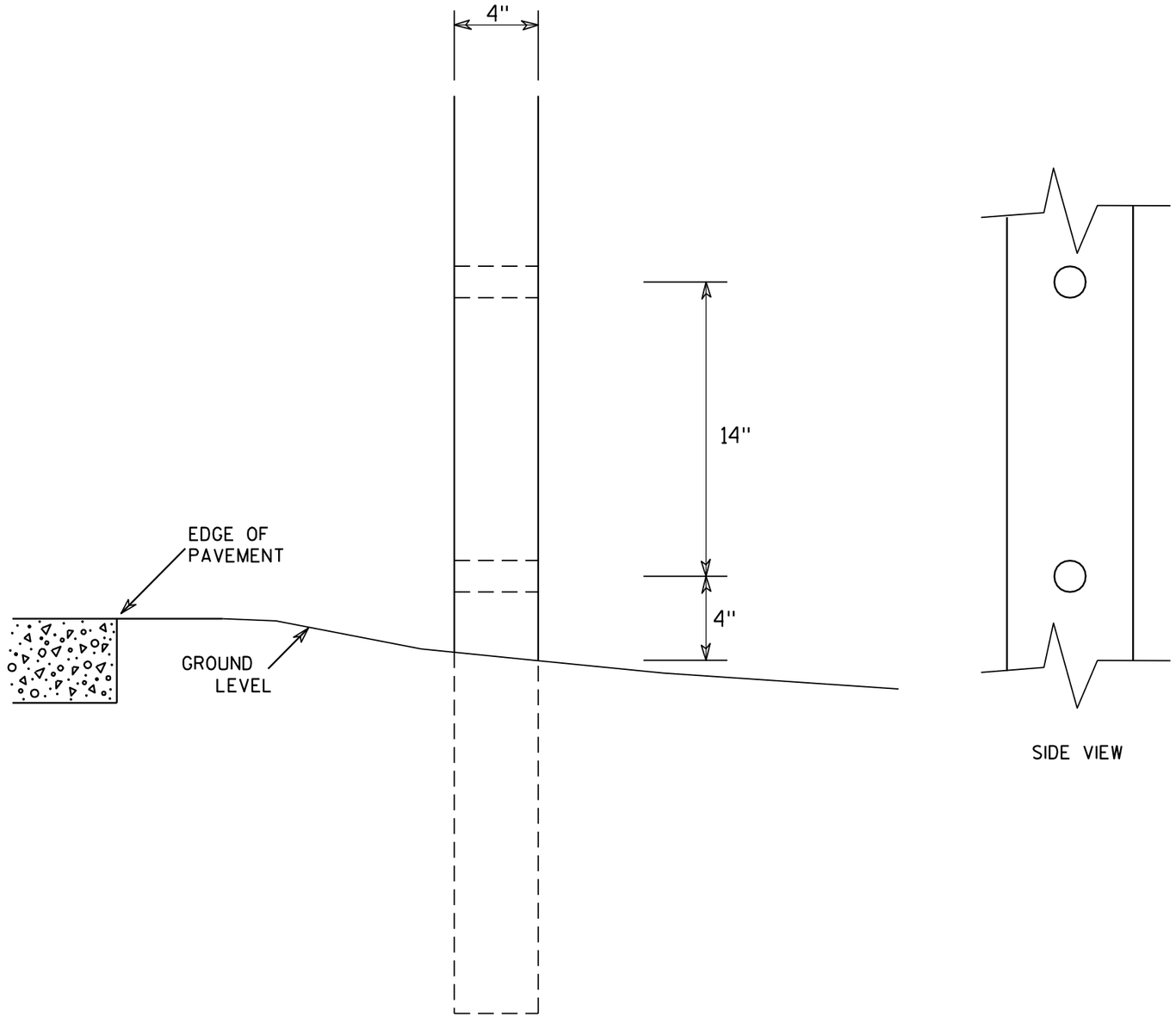
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 300 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

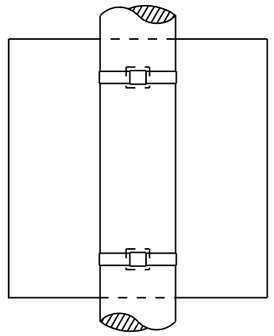
APPROVED Chester J Spang
for State Traffic Engineer

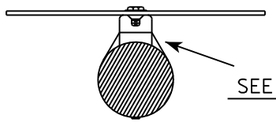
DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 301	E

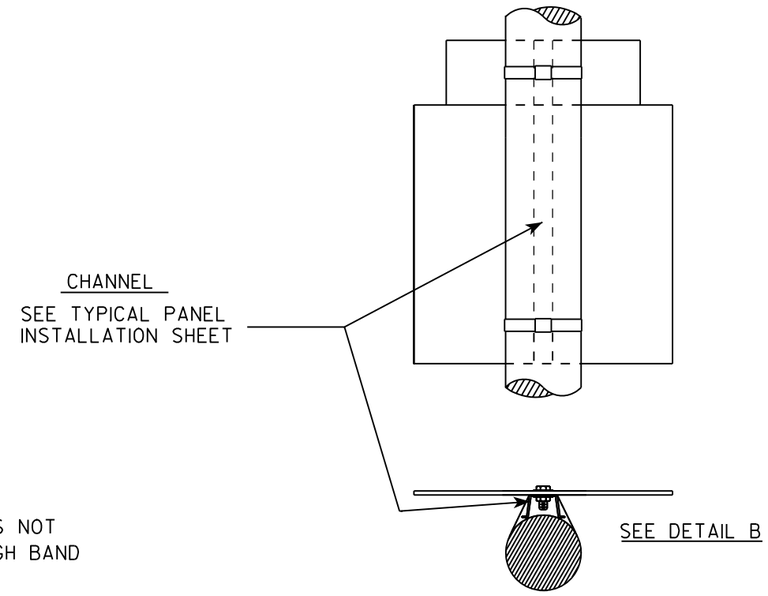
BANDING

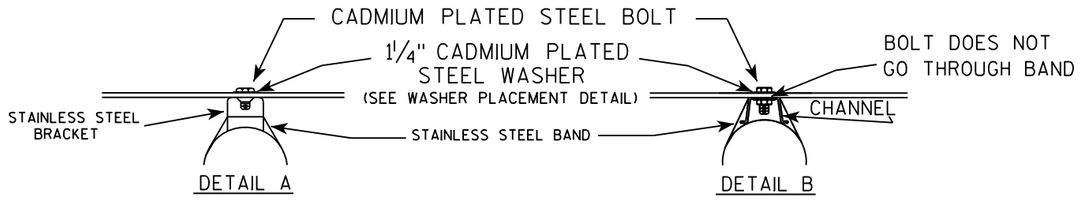
SINGLE SIGN



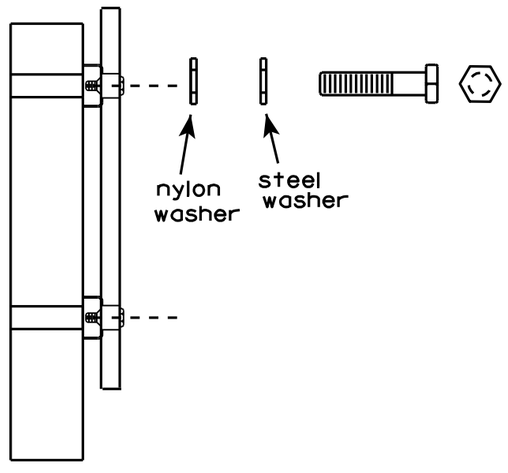


"J" ASSEMBLY





WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be 3/4" in width and 0.025" thickness.

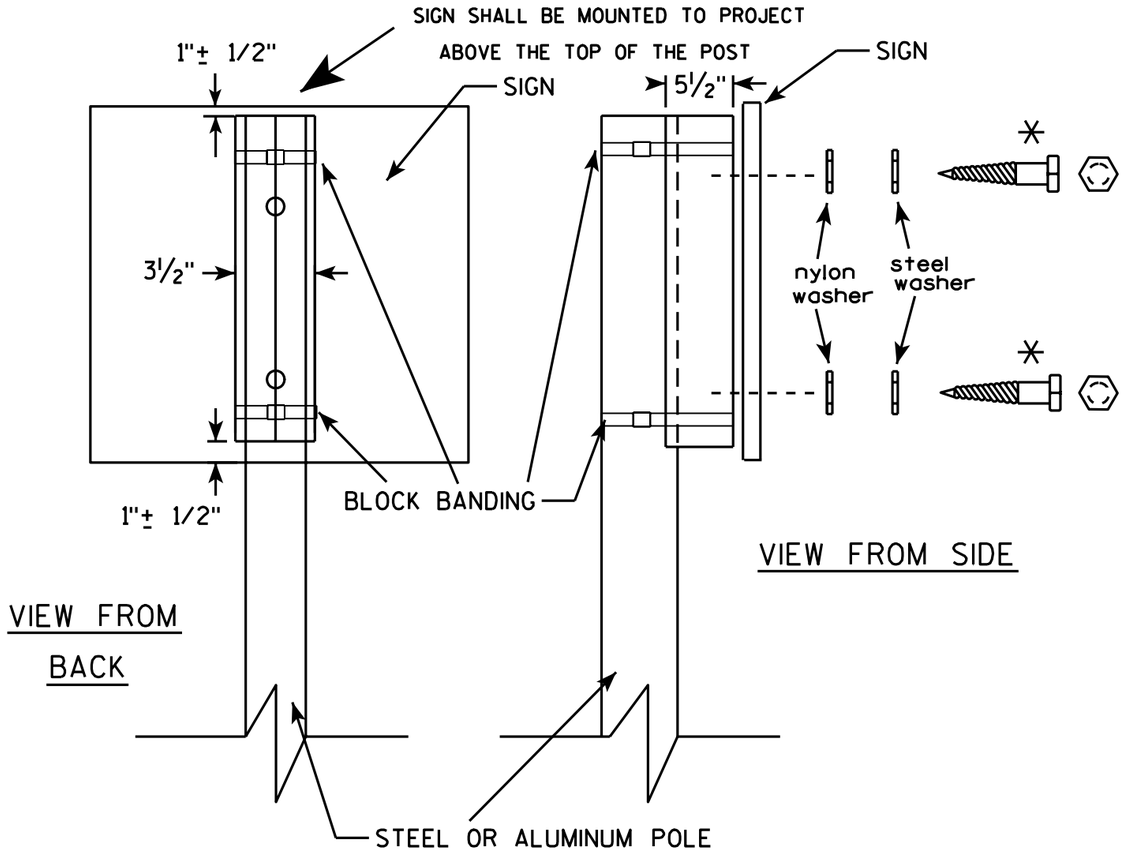
STANDARD SIGN
SIGN BANDING DETAILS

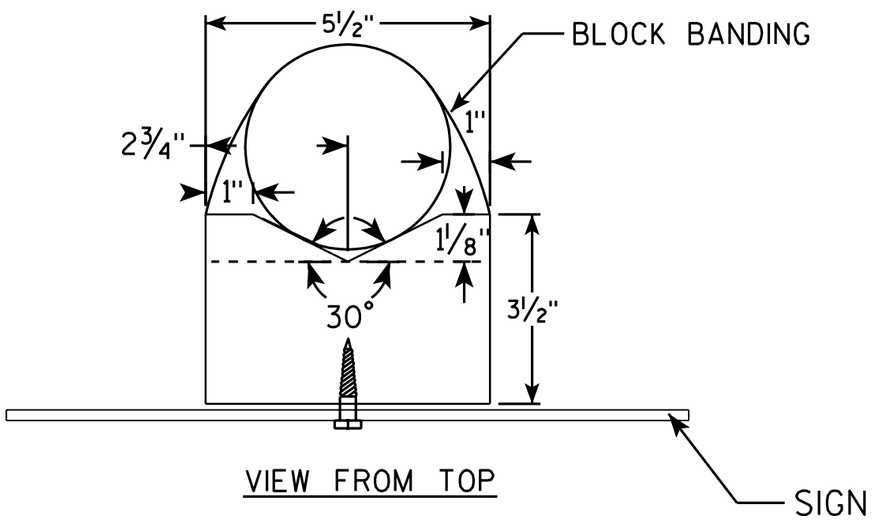
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 302	E





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

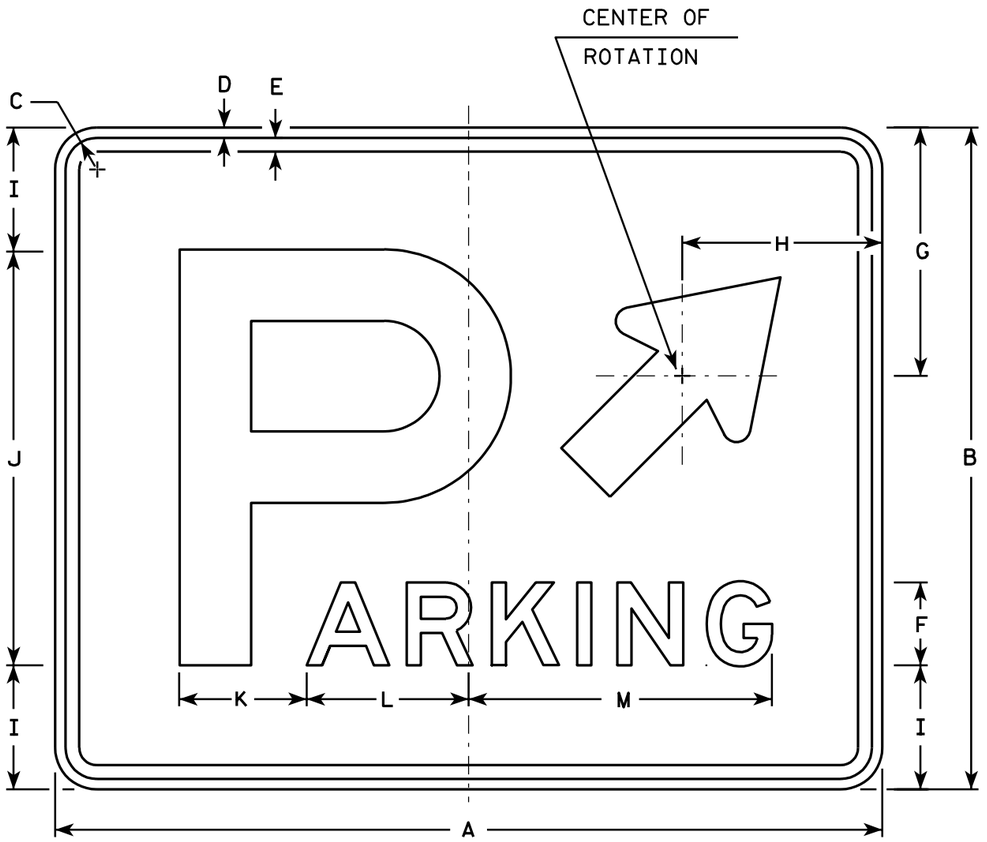
DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO:

SHEET NO: 303 E

FILE NAME : C:\Users\Projects\tr_stdplate\A510.dgn PLOT DATE : 06-AUG-2007 13:37 PLOT BY : ditjph

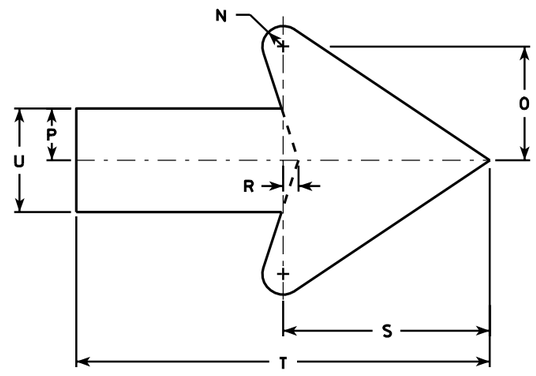
WISDOT/CADDS SHEET 42



D4-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Green
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Arrow shall be rotated as required.



Arrow Detail

Metric equivalent for this sign is:

SIZE	
1	450 mm X 375 mm
2	750 mm X 600 mm
3	1200 mm X 900 mm
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	18	15	1 1/8	3/8	3/8	2	7	4 3/8	2 1/2	10	3 1/8	4	7 1/4	3/8	1 5/8	3/4		1/4	3	6	1 1/2						1.88	0.17
2	30	24	1 1/8	3/8	1/2	3	9	7 1/4	4 1/2	15	4 5/8	5 7/8	11	1/2	2 3/4	1 1/4		3/8	5	10	2 1/2						5.0	0.45
3	48	36	1 3/8	1/2	5/8	5	11	12	5 1/2	25	7 3/4	9 3/4	18 1/4	3/4	3 7/8	1 7/8		5/8	7 1/2	15	3 3/4						12.0	1.08
4																												
5																												

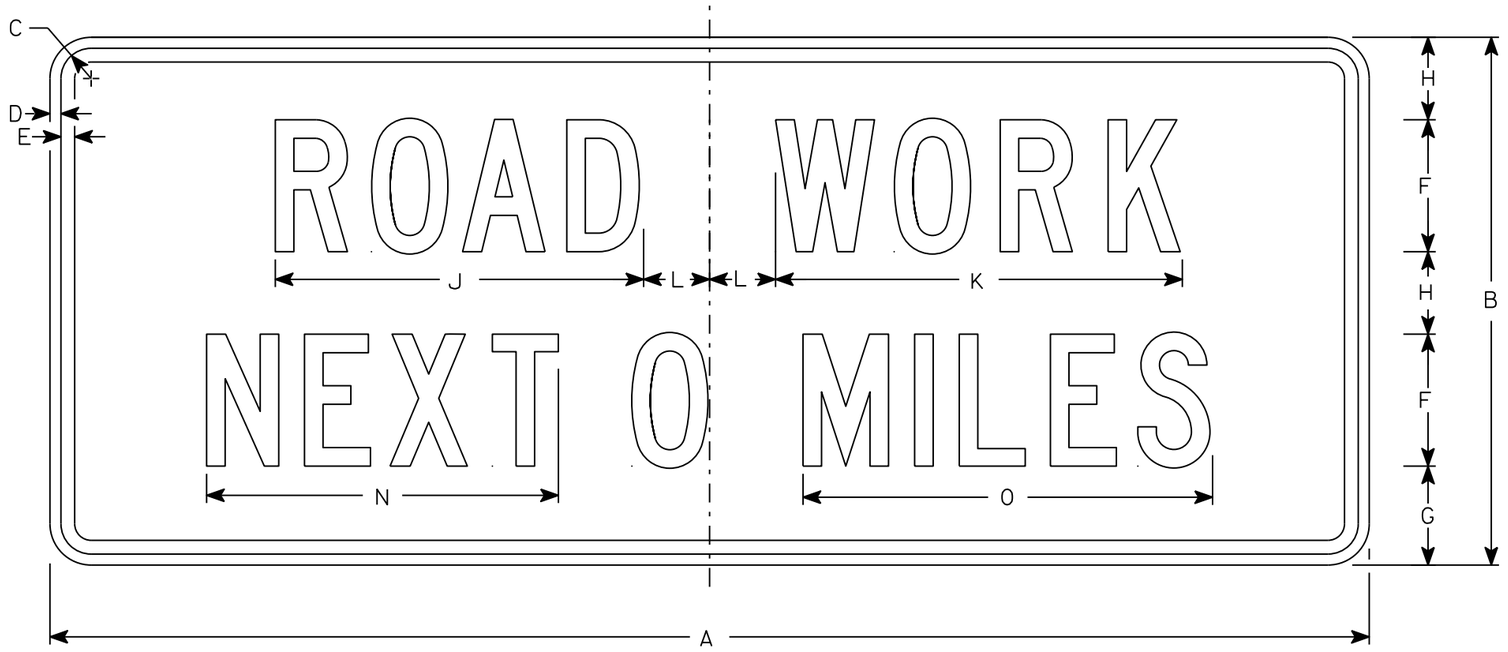
STANDARD SIGN
D4-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/01/06 PLATE NO. D4-1.8

PROJECT NO: | SHEET NO: 304 | E



G20-1

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Round distance to nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10
3																											
4	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10
5																											

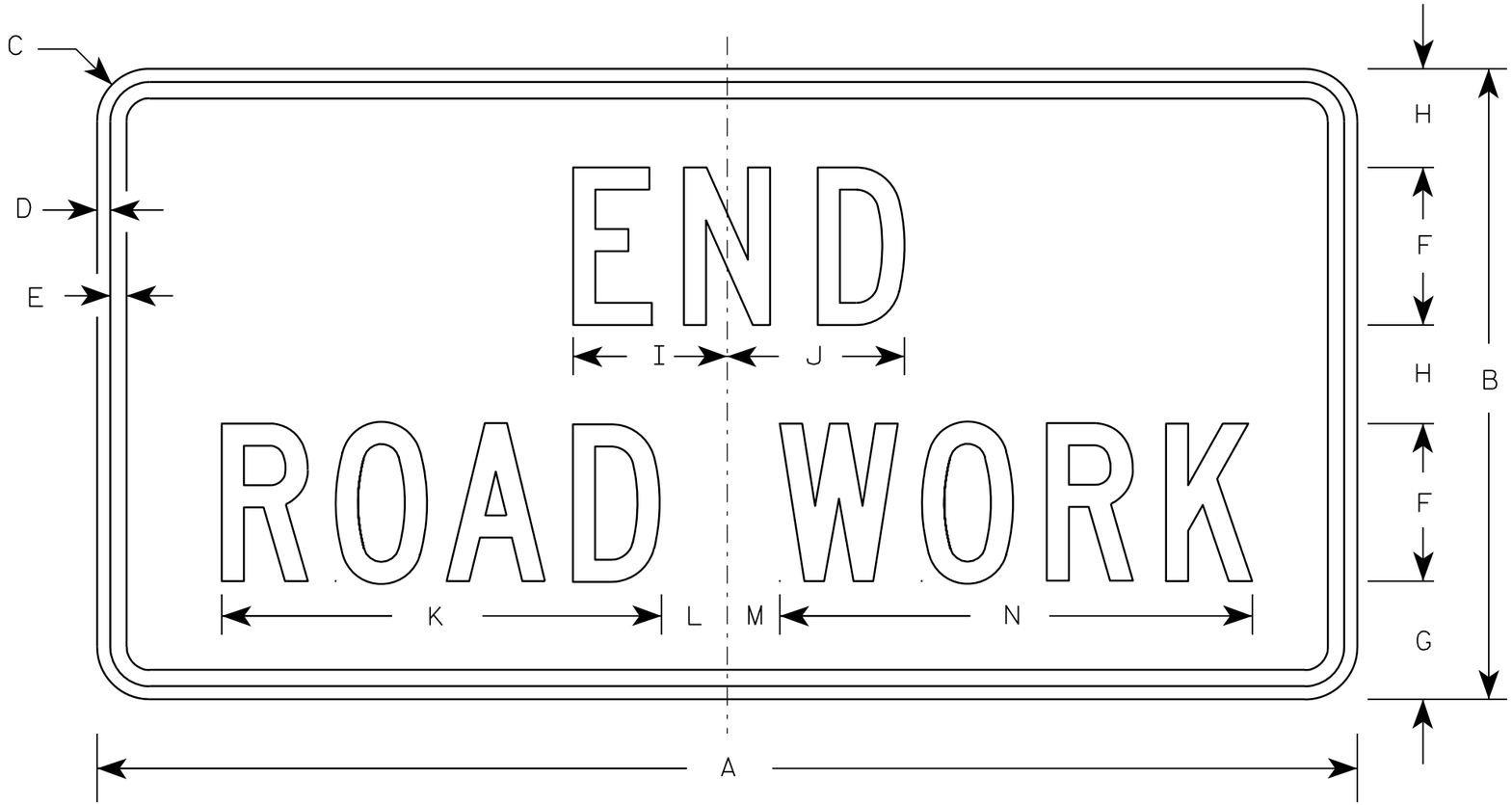
STANDARD SIGN
G20-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/14/17 PLATE NO. G20-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 305	E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

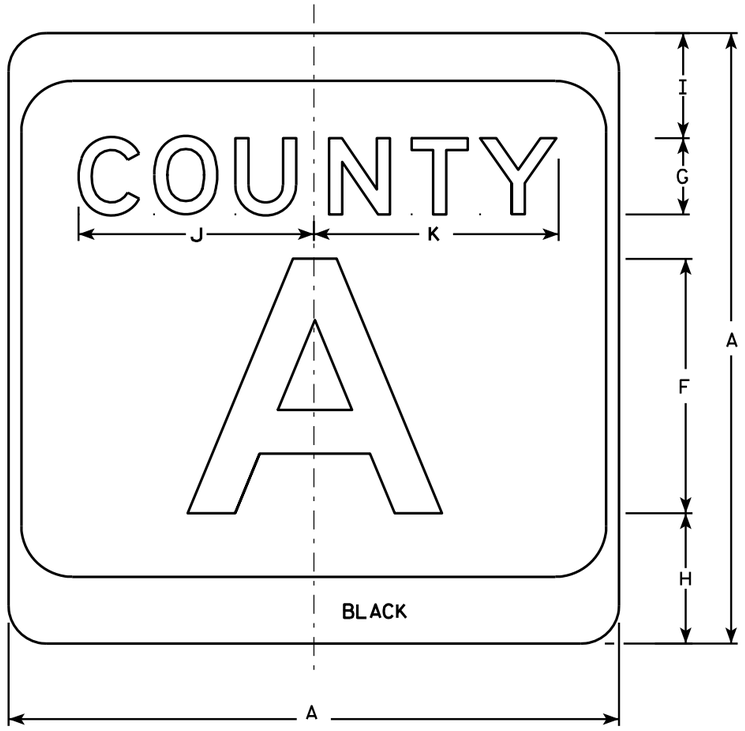
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

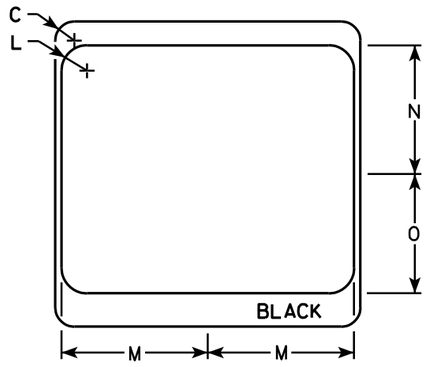
APPROVED Matthew R Rauch
for State Traffic Engineer

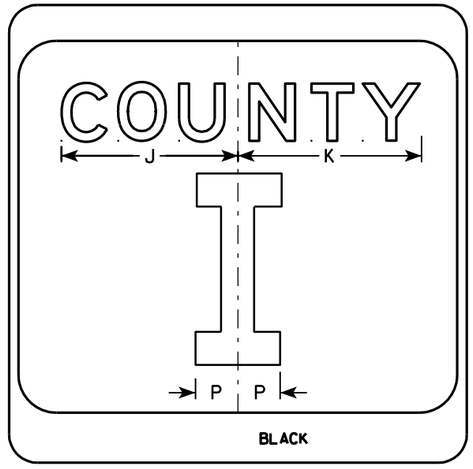
DATE 9/30/09 PLATE NO. G20-2A.8

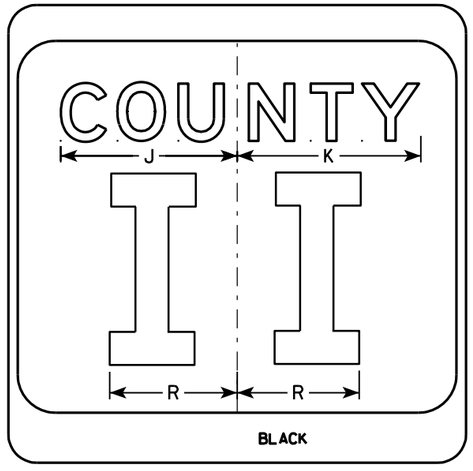
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 306	E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   Message - Black
3. Message Series - see Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

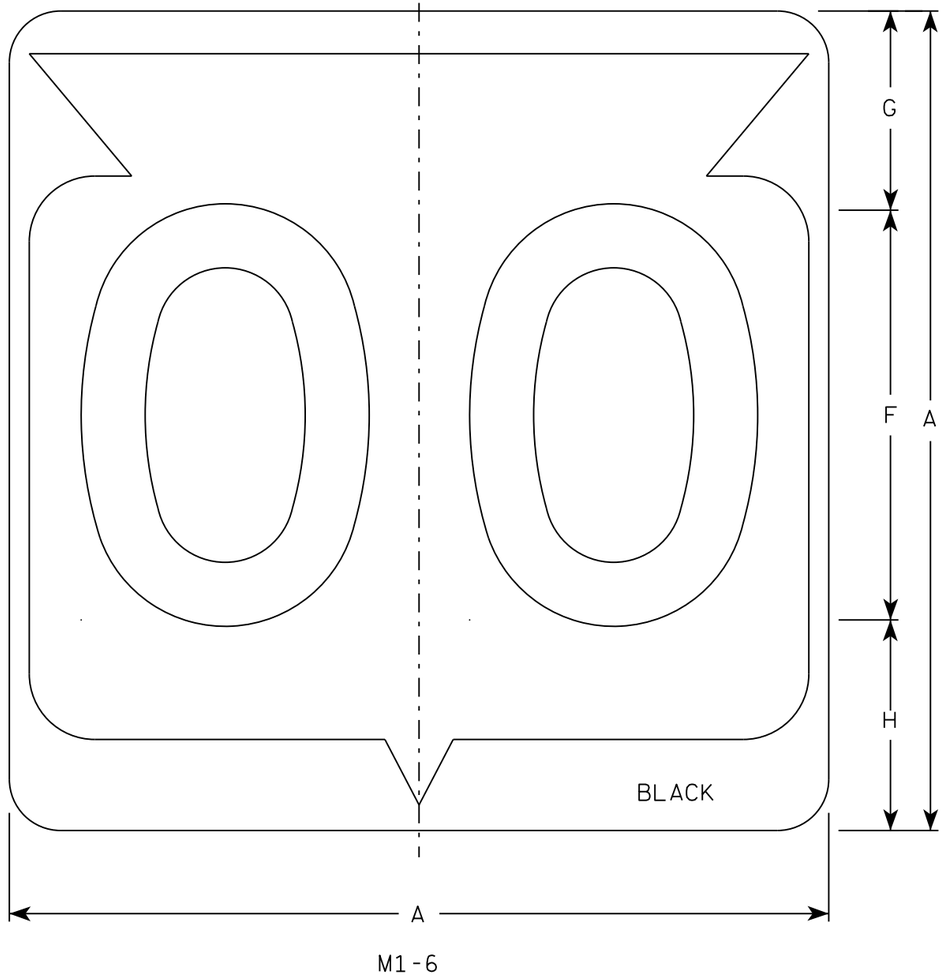
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 307 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M15A.DGN PLOT DATE : 29-SEP-2011 11:25 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.959043:1.000000

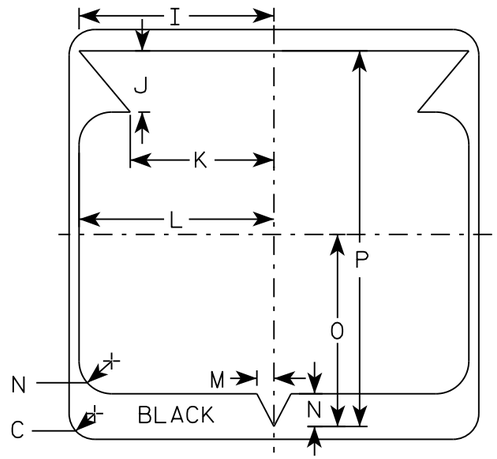
WISDOT/CADDS SHEET 42



M1-6

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0

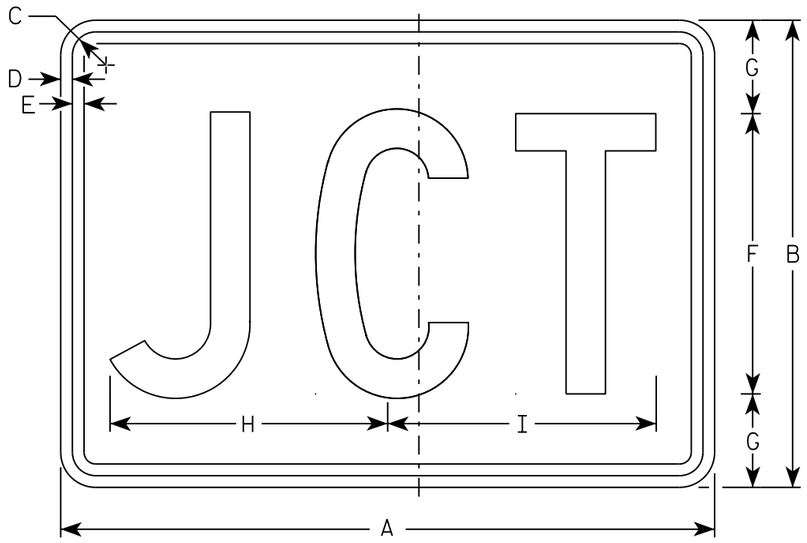
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

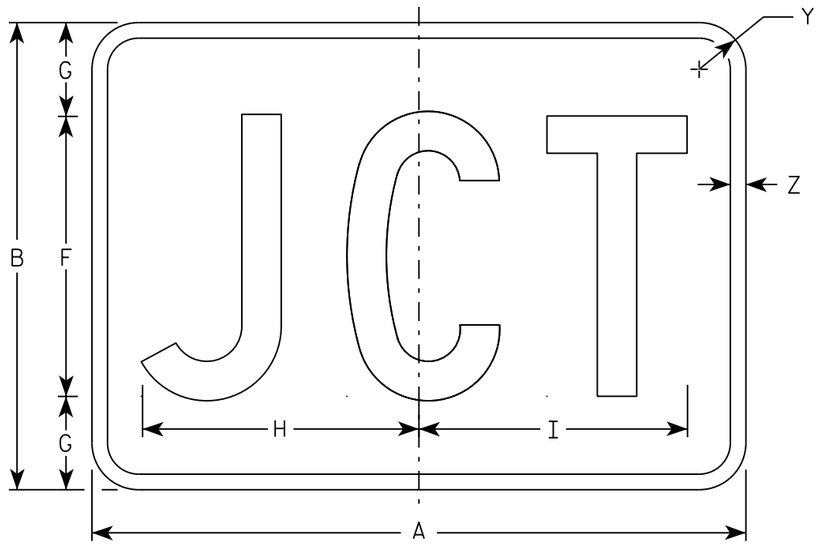
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/16/18 PLATE NO. M1-6.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 308 | E



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

STANDARD SIGN
M2-1

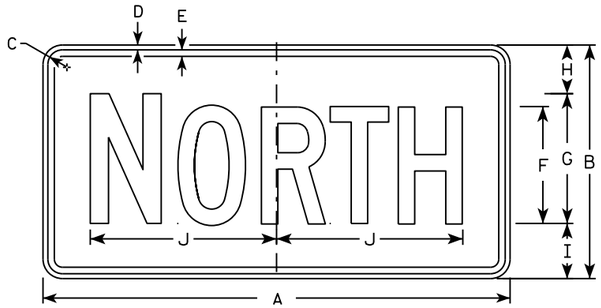
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

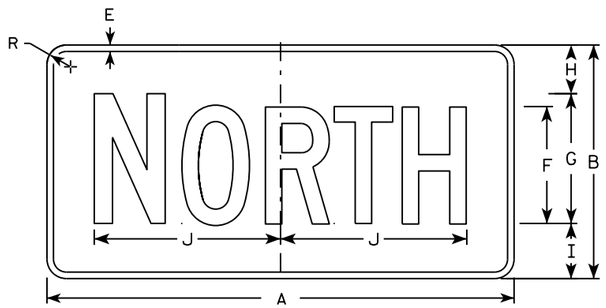
DATE 10/15/15 PLATE 309 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



M3-1
MM3-1
MP3-1



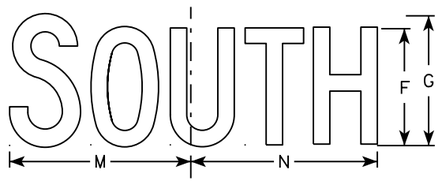
MB3-1
MK3-1
MN3-1



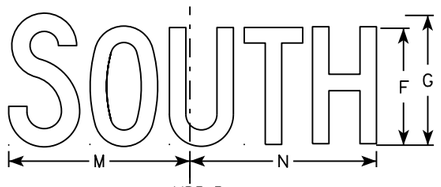
M3-2
MM3-2
MP3-2



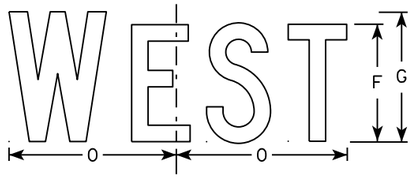
MB3-2
MK3-2
MN3-2



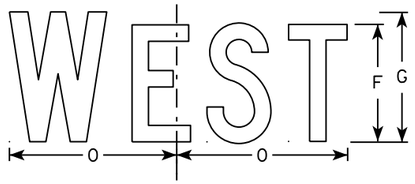
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

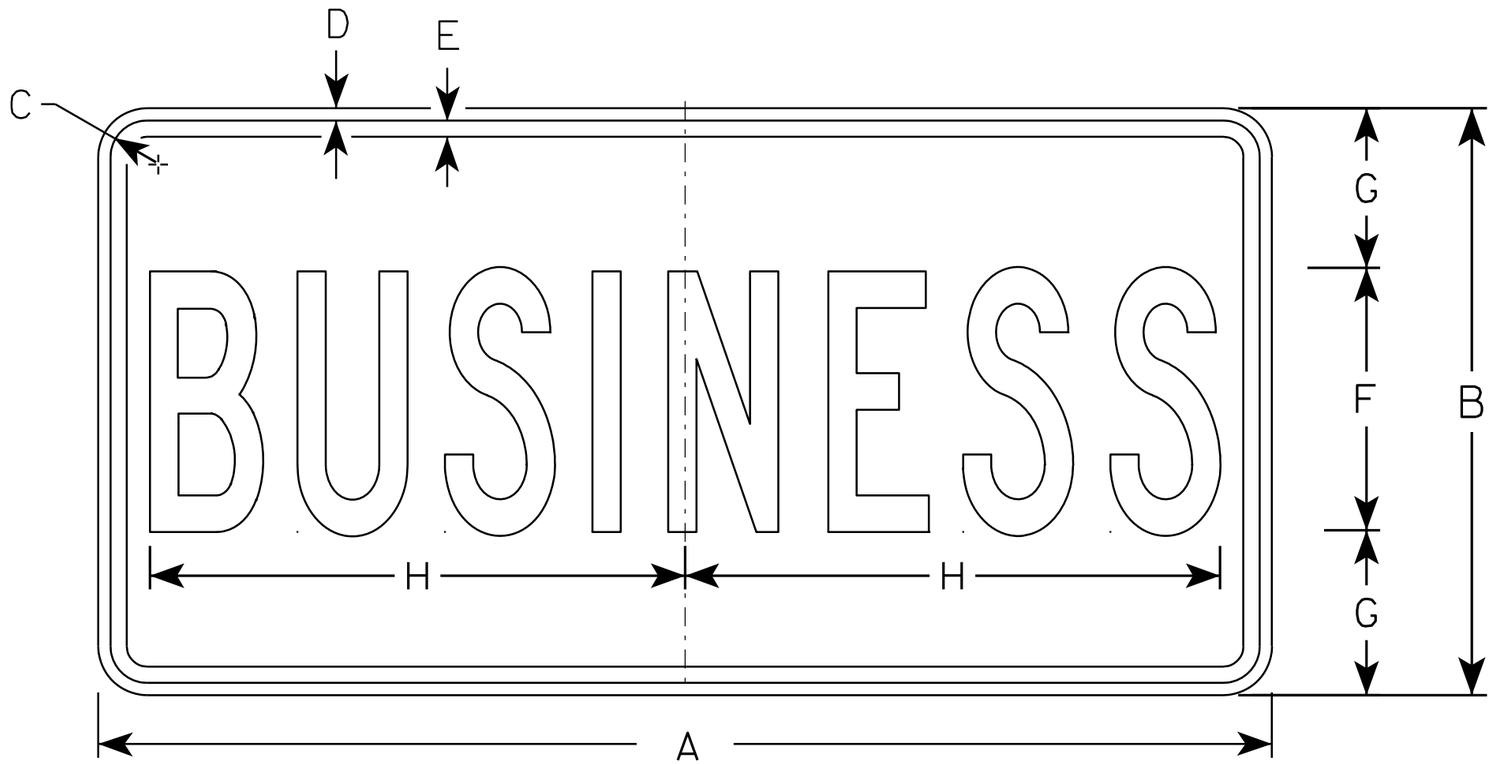
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

DATE 10/15/15 PLATE NO M3-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



M4-3

NOTES

1. Sign is Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White - See Note 5
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Permanent Signs
   Background - Type H Reflective
   Detour or other temporary Signs
   Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	5	3 1/2	9 5/8																			2.0
3	36	18	1 1/8	3/8	1/2	8	5	16 3/8																			4.5
4																											
5																											

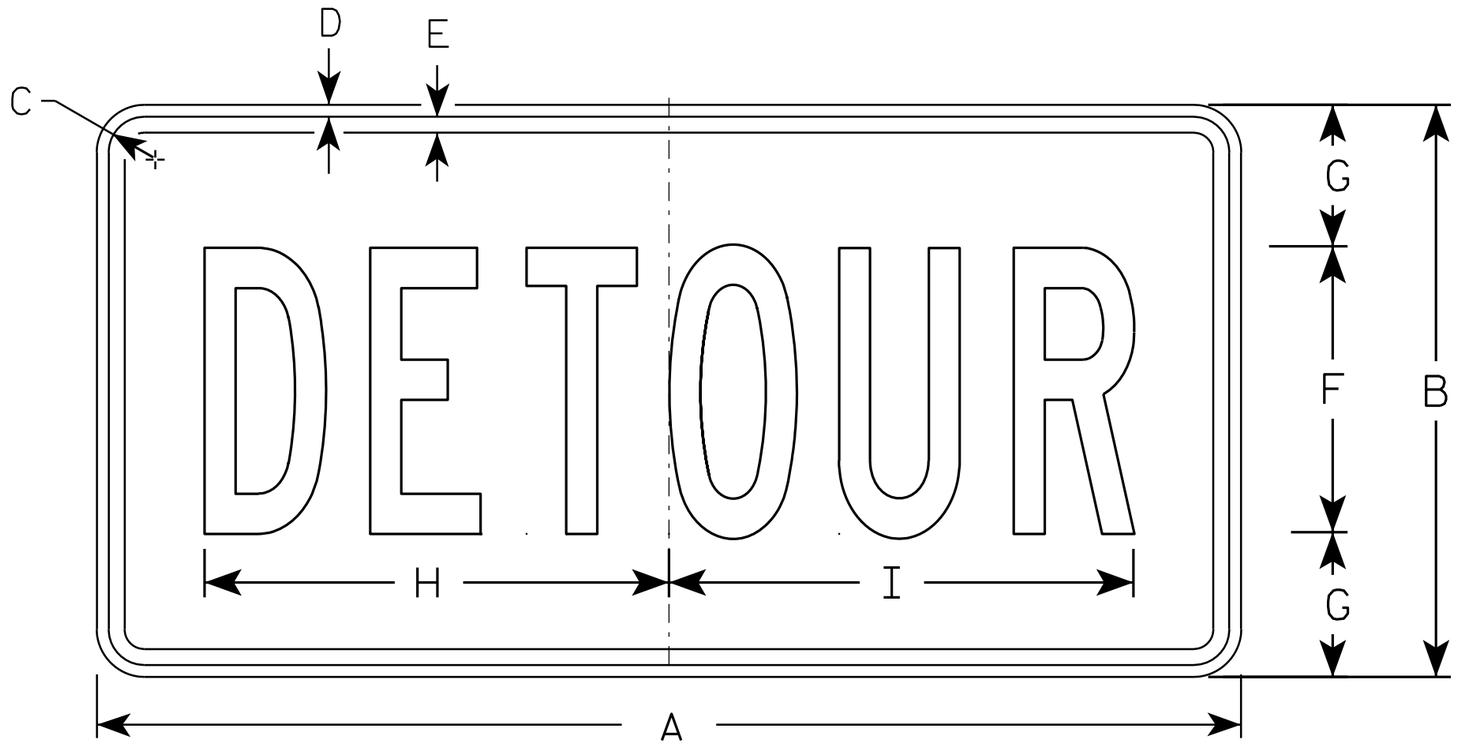
STANDARD SIGN
M4-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-3.5

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 311 | E



M4-8

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	10	10 1/4																		2.0
3	36	18	1 1/8	3/8	1/2	9	4 1/2	14 5/8	14 1/2																		4.5
4																											
5																											

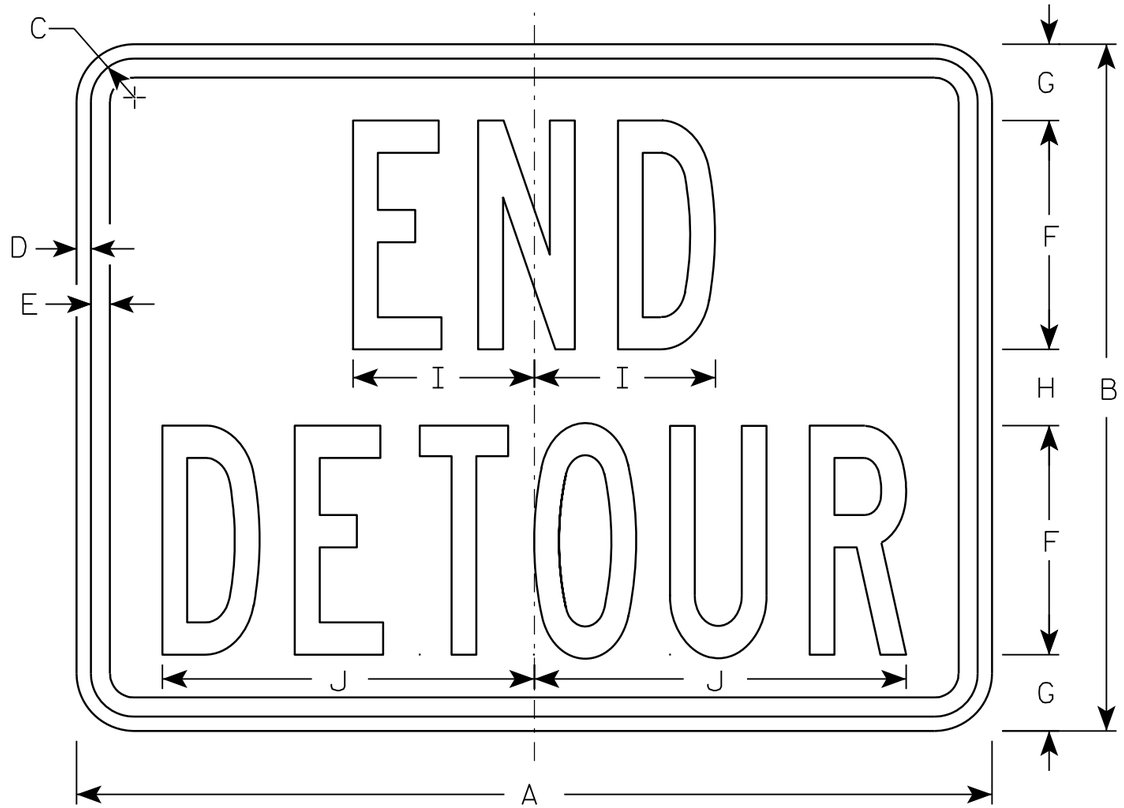
STANDARD SIGN
M4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M4-8.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 312	E



M4-8A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	18	1 1/8	3/8	1/2	6	2	2	4 3/4	9 3/4																	3.0
3	30	24	1 1/8	3/8	1/2	8	2 1/2	3	6 3/4	13																	5.0
4																											
5																											

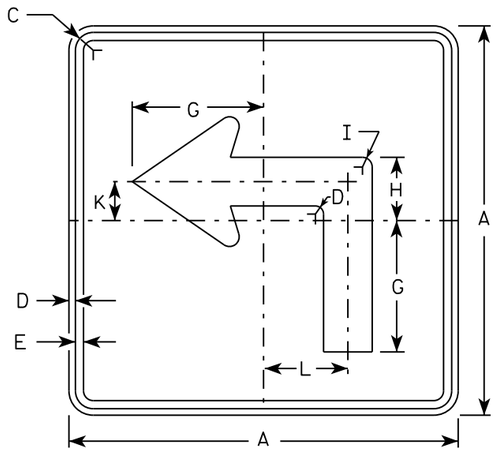
STANDARD SIGN
M4-8A

WISCONSIN DEPT OF TRANSPORTATION

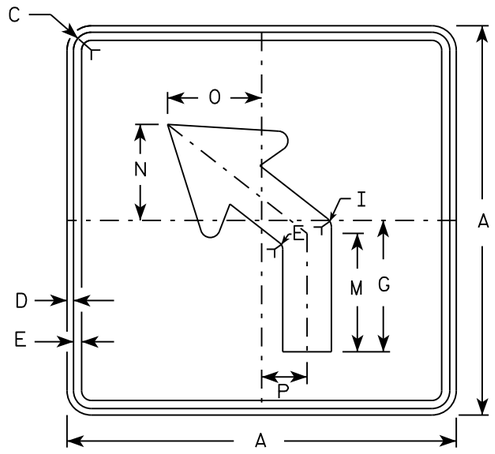
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/9/11 PLATE NO. M4-8A.2

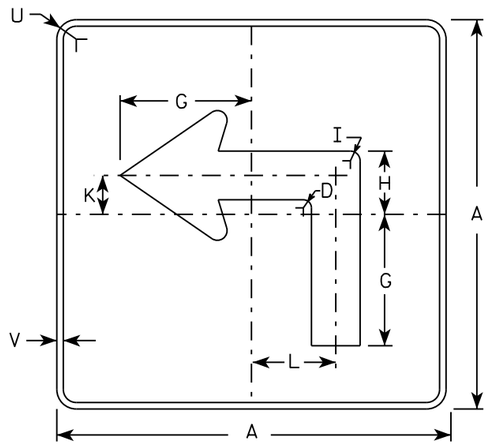
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 313	E



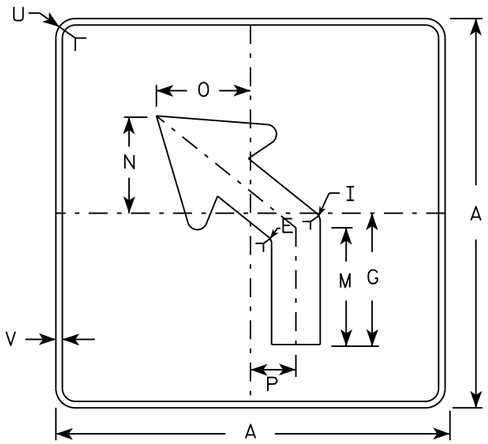
M5-1L
MM5-1L
MO5-1L
MP5-1L



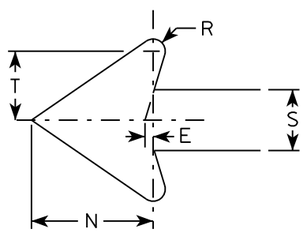
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective except as shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

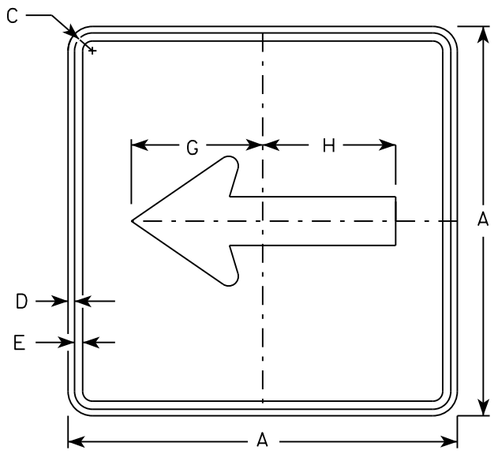
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

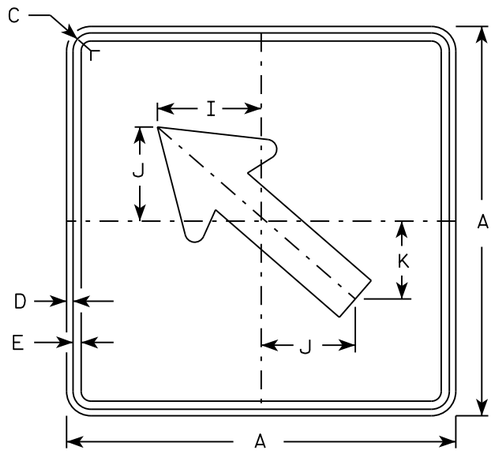
DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



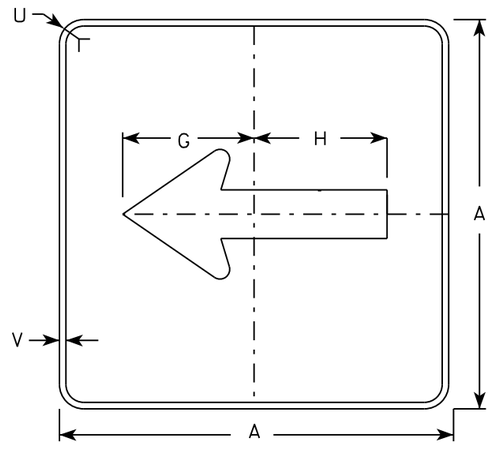
M6-1
MM6-1
MO6-1
MP6-1



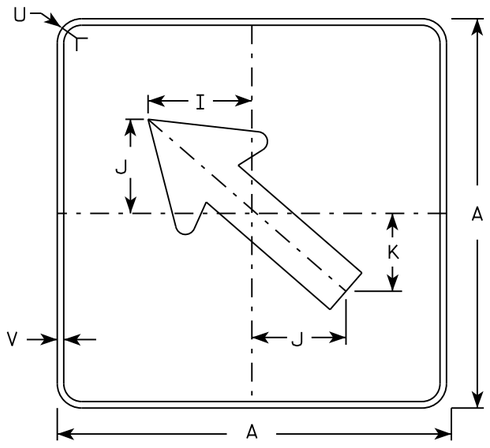
M6-2
MM6-2
MO6-2
MP6-2

NOTES

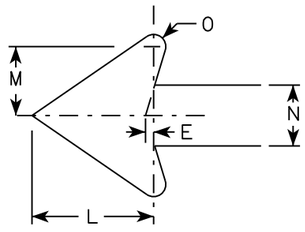
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2						3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2						6.25

STANDARD SIGN M6-1 & M6-2 SERIES

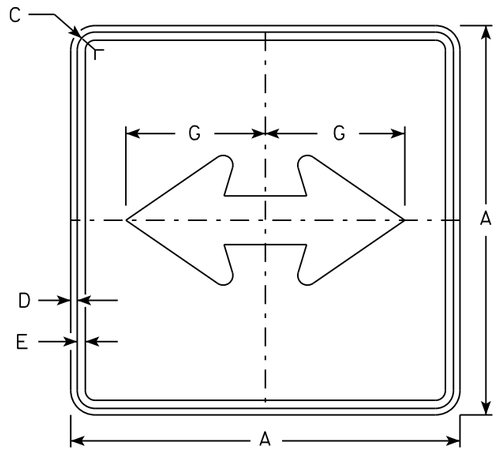
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

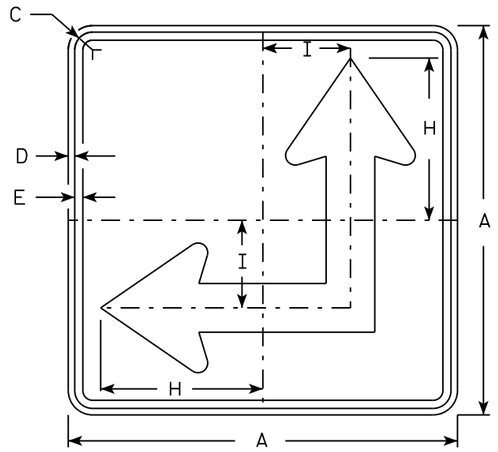
DATE 10/15/15 PLATE 315 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



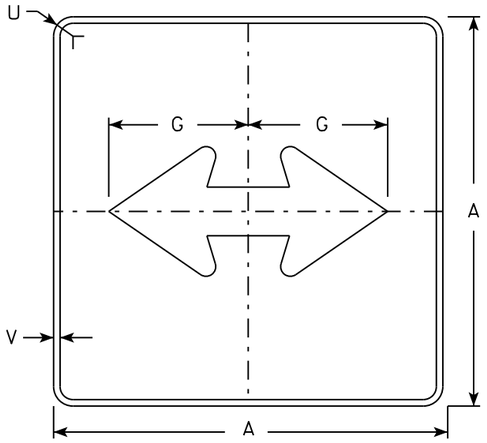
M6-4
MM6-4
MO6-4
MP6-4



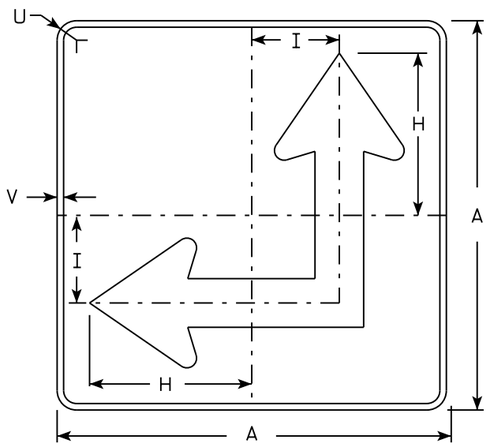
M6-6
MM6-6
MO6-6
MP6-6

NOTES

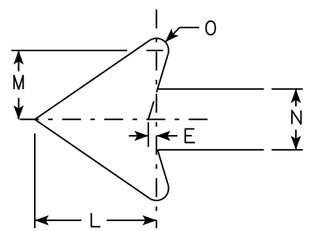
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White
   MK6-4 and MK6-6 Background - Green
   Message - White
   MM6-4 and MM6-6 Background - White
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White
   MO6-4 and MO6-6 Background - Orange - Type F Reflective
   Message - Black
   MP6-4 and MP6-6 Background - White
   Message - Blue
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow
5. M6-6R same as M6-6L except arrow points ahead and right.



MB6-4
MK6-4
MN6-4
MR6-4



MB6-6
MK6-6
MN6-6
MR6-6



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN
M6-4 & M6-6
SERIES

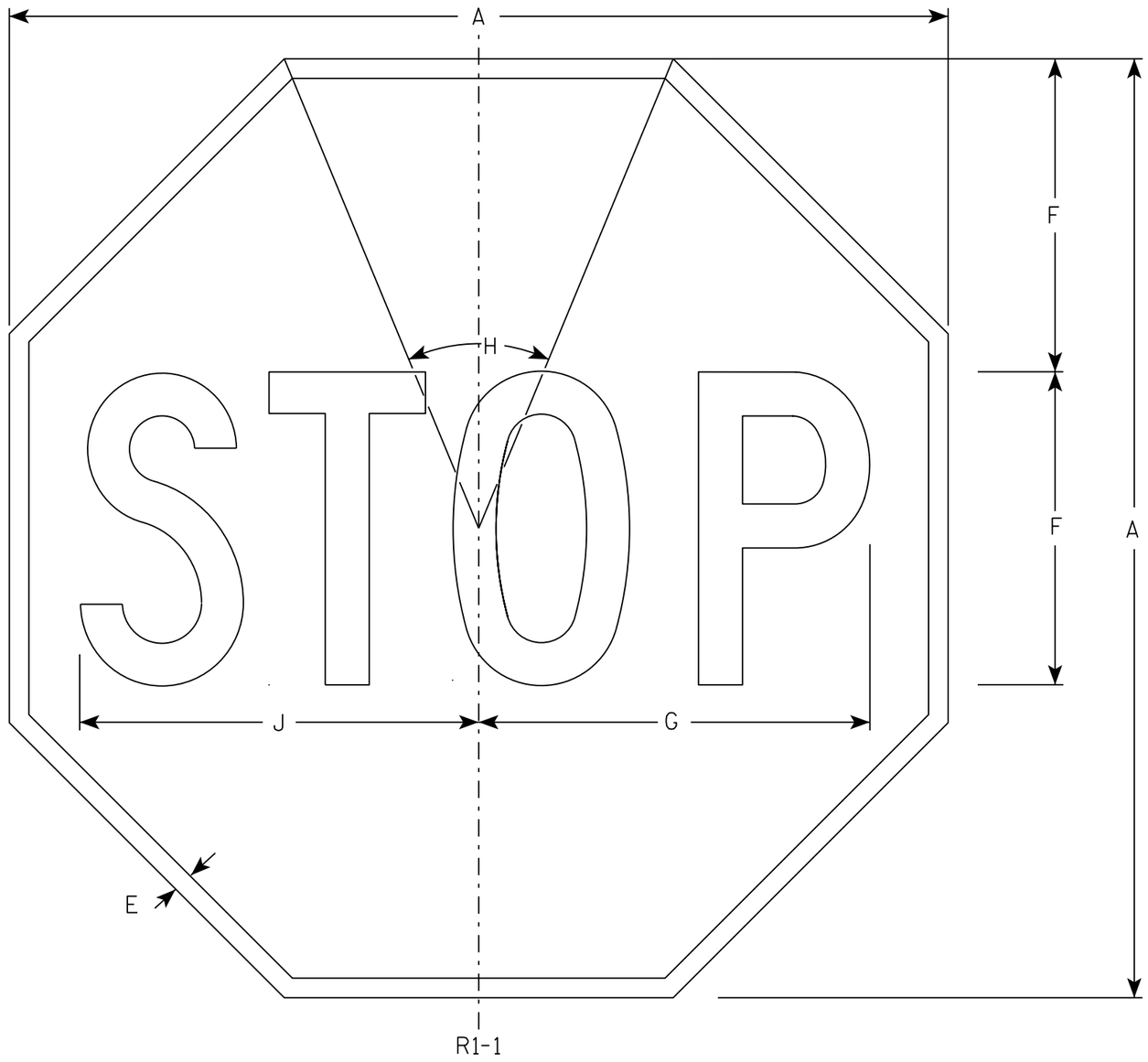
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 316 M6-4.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M64.DGN PLOT DATE : 01-DEC-2015 17:58 PLOT BY : $$ platuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

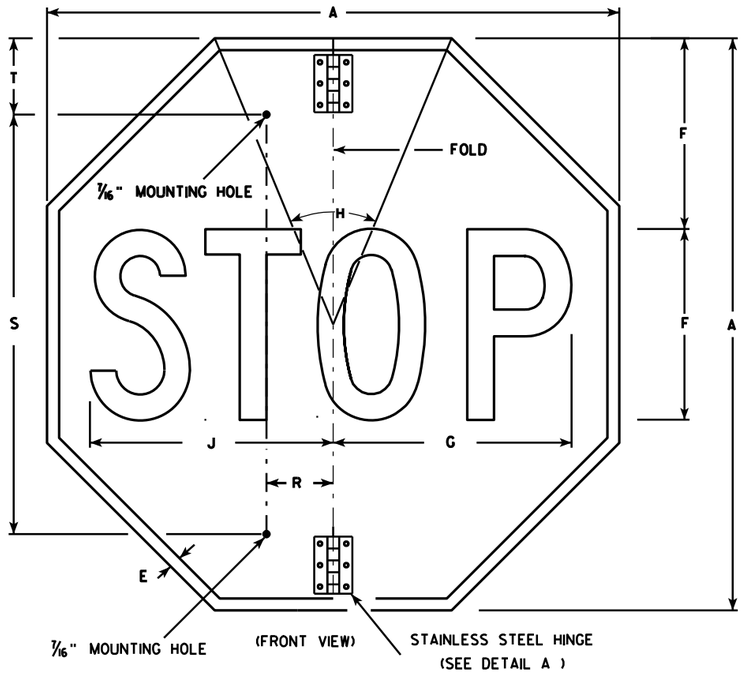
STANDARD SIGN
R1-1

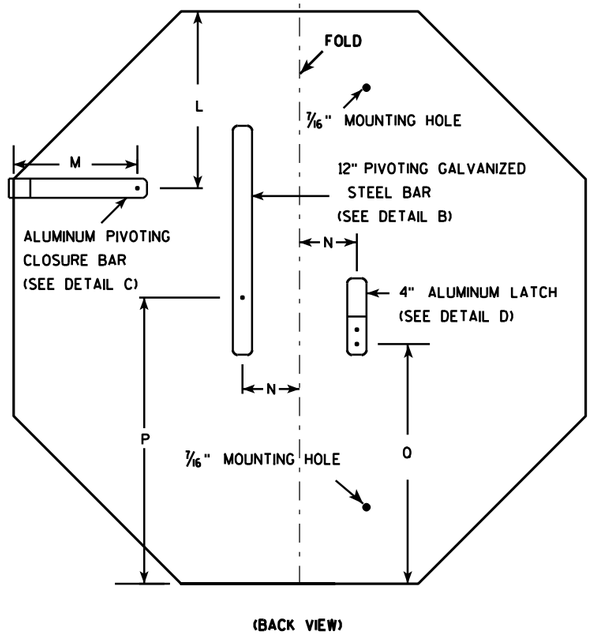
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

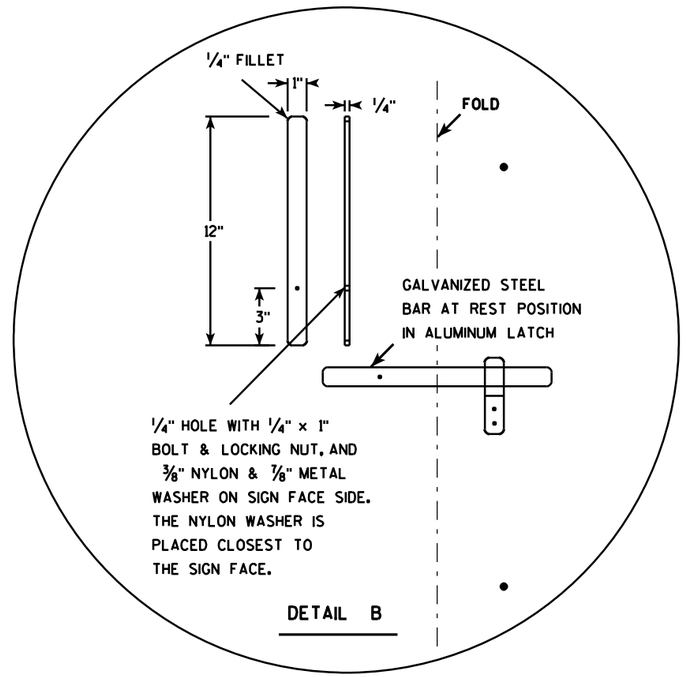
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 317	E

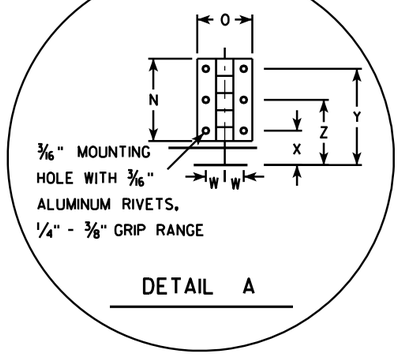


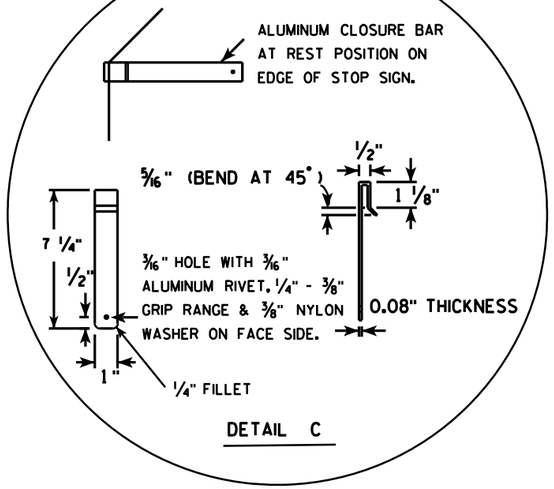


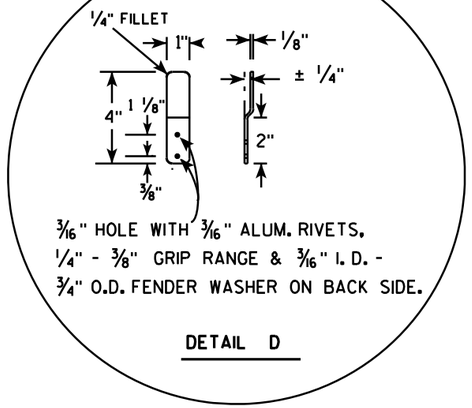
NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.









SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18
2M	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
4																											
5																											

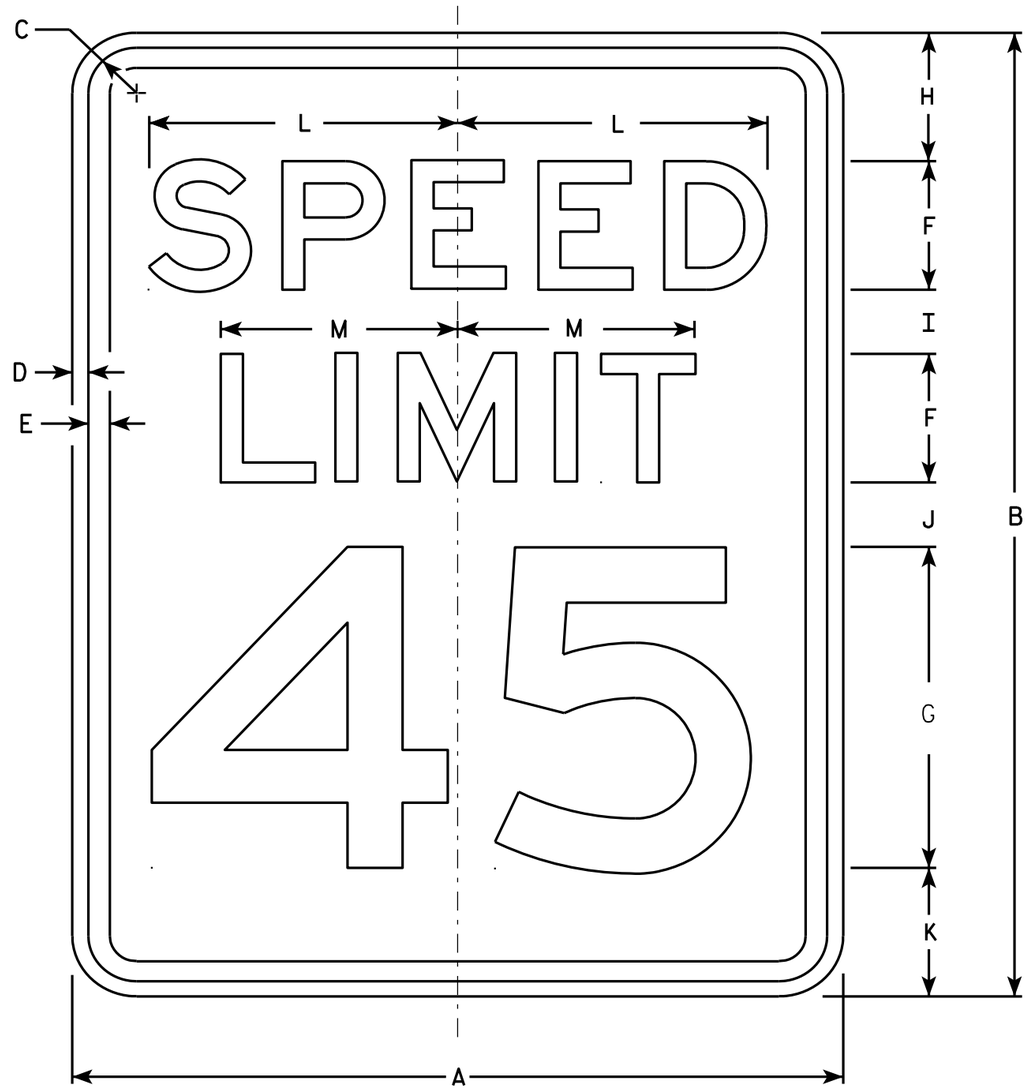
STANDARD SIGN
R1-1F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1F.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 318 | E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

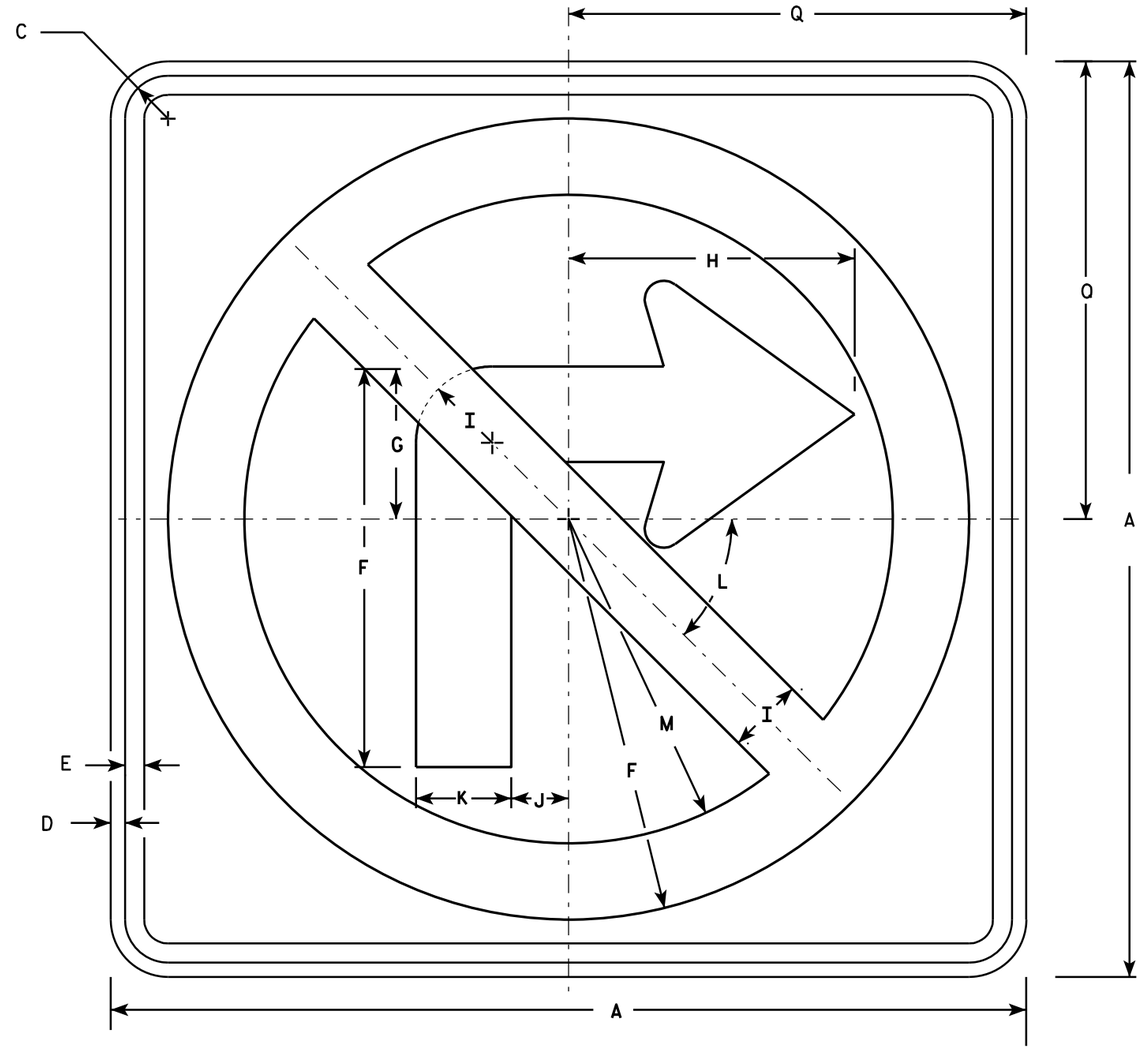
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

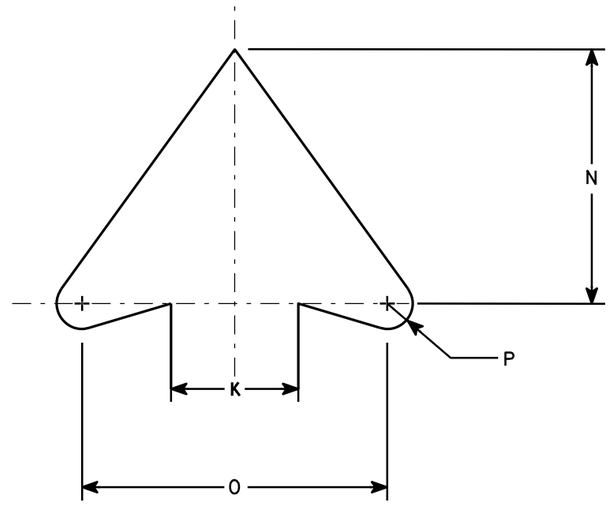
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 319	E



R3-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12										4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

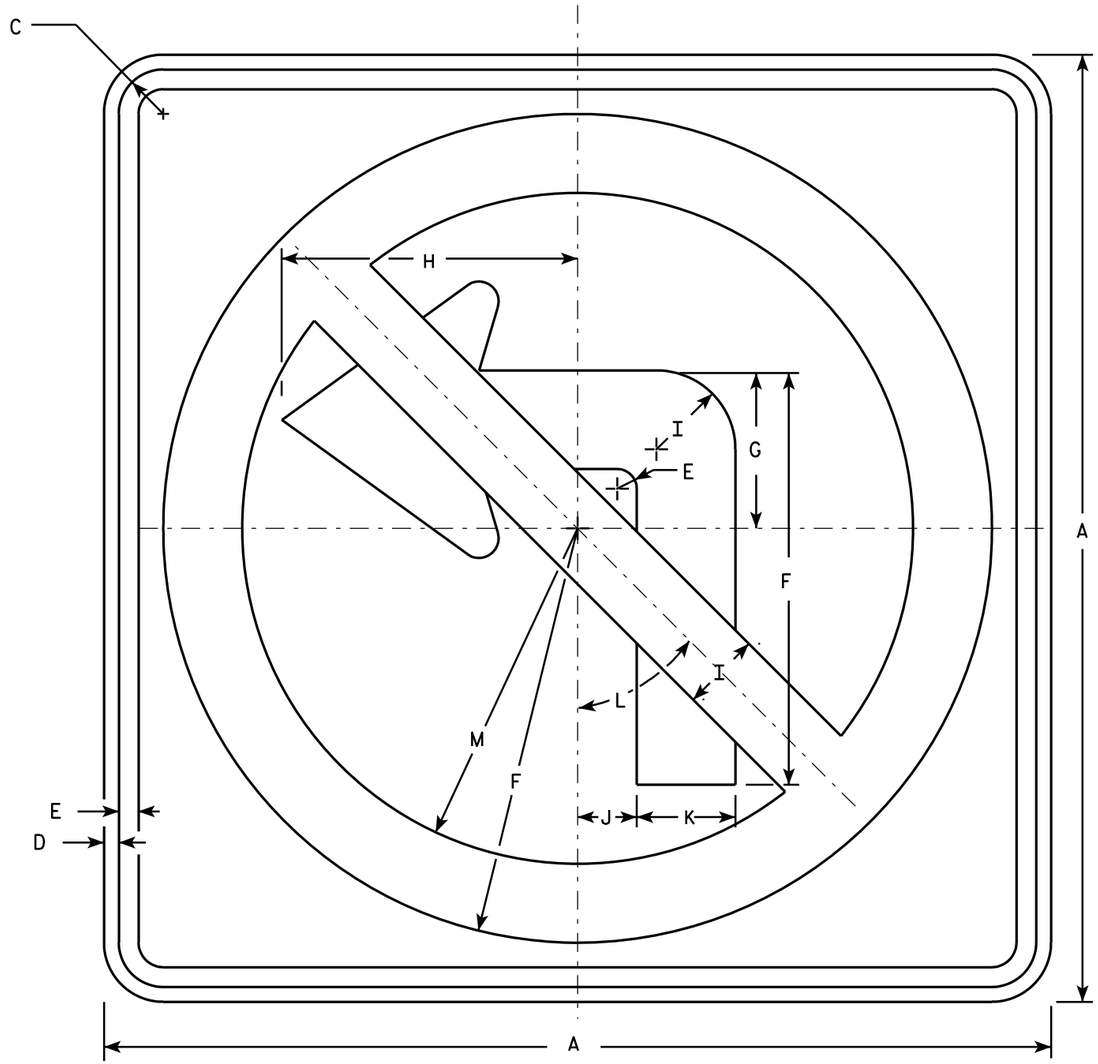
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-1.5

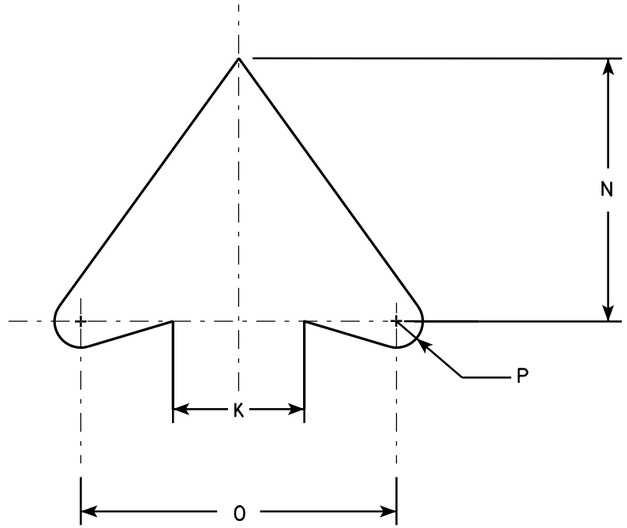
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 320	E



R3-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
3	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

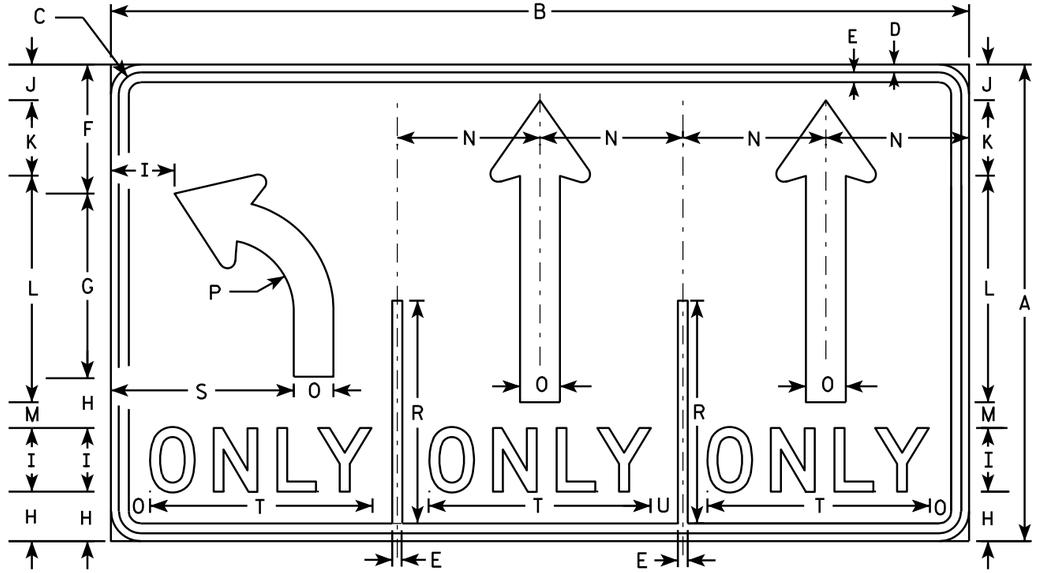
STANDARD SIGN
R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/08/10 PLATE NO. R3-2.10

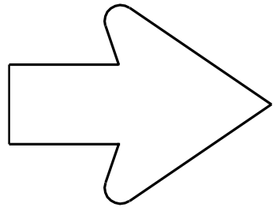
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 321	E



R3-8RR

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



SEE R3-8 FOR ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	54	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	9	2 1/2	4 1/2		14	11 1/2	14	2						11.25
2M	30	54	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	9	2 1/2	4 1/2		14	11 1/2	14	2						11.25
3																											
4	48	84	2 1/4	3/4	1	13	18 1/2	5 1/4	6	3 3/4	7	29 1/8	2 3/8	14	3 3/4	7 1/4		22 3/8	17 1/4	20 1/2	3 1/4						28.0
5	48	84	2 1/4	3/4	1	13	18 1/2	5 1/4	6	3 3/4	7	29 1/8	2 3/8	14	3 3/4	7 1/4		22 3/8	17 1/4	20 1/2	3 1/4						28.0

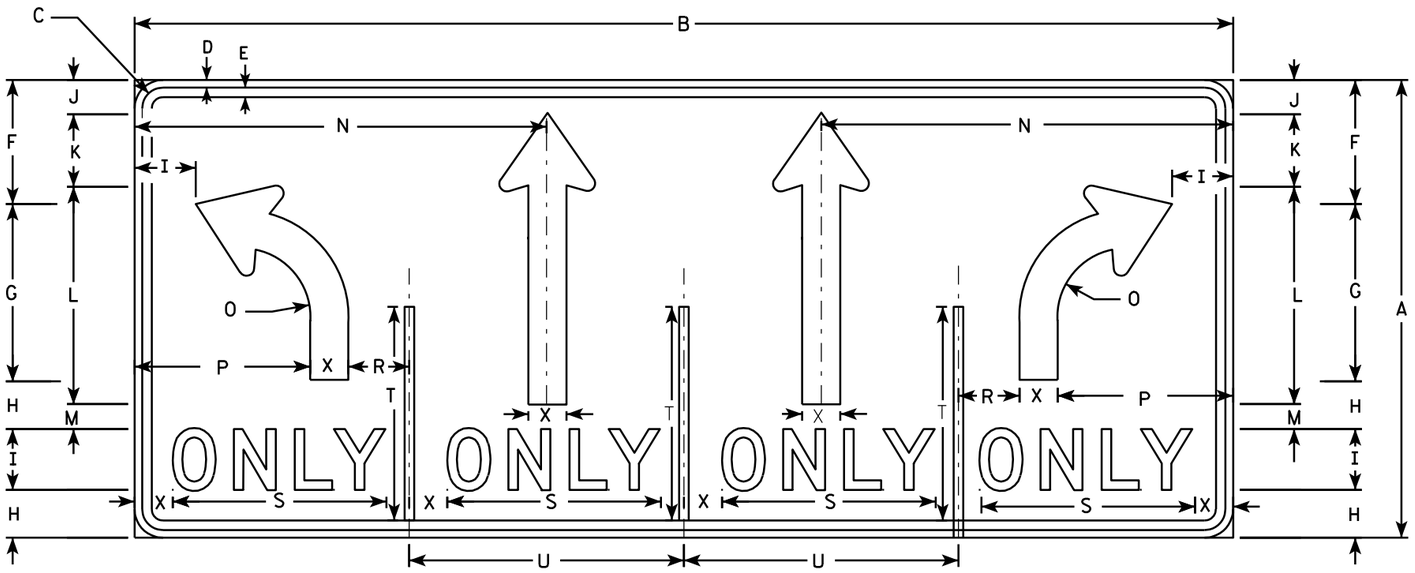
STANDARD SIGN
R3-8RR

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/18/11 PLATE NO. R3-8RR.1

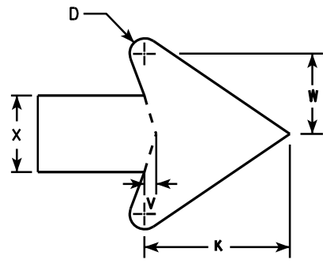
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 322 | E



R3-8V

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	72	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	27	4 1/2	11 1/2		4	14	14	18	3/8	2 5/8	2 1/2			15.0
2M	30	72	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	27	4 1/2	11 1/2		4	14	14	18	3/8	2 5/8	2 1/2			15.0
3																											
4	48	108	2 1/4	3/4	1	14 3/8	17 1/4	5 3/8	6	5 3/8	7 1/8	21 1/2	3	40 1/2	7 1/4	17 1/4		6	20 5/8	22 3/8	27	5/8	4	3 3/4			36.0
5	48	108	2 1/4	3/4	1	14 3/8	17 1/4	5 3/8	6	5 3/8	7 1/8	21 1/2	3	40 1/2	7 1/4	17 1/4		6	20 5/8	22 3/8	27	5/8	4	3 3/4			36.0

STANDARD SIGN
R3-8V

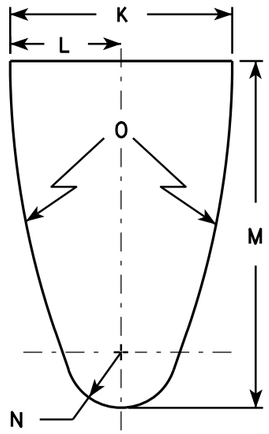
WISCONSIN DEPT OF TRANSPORTATION

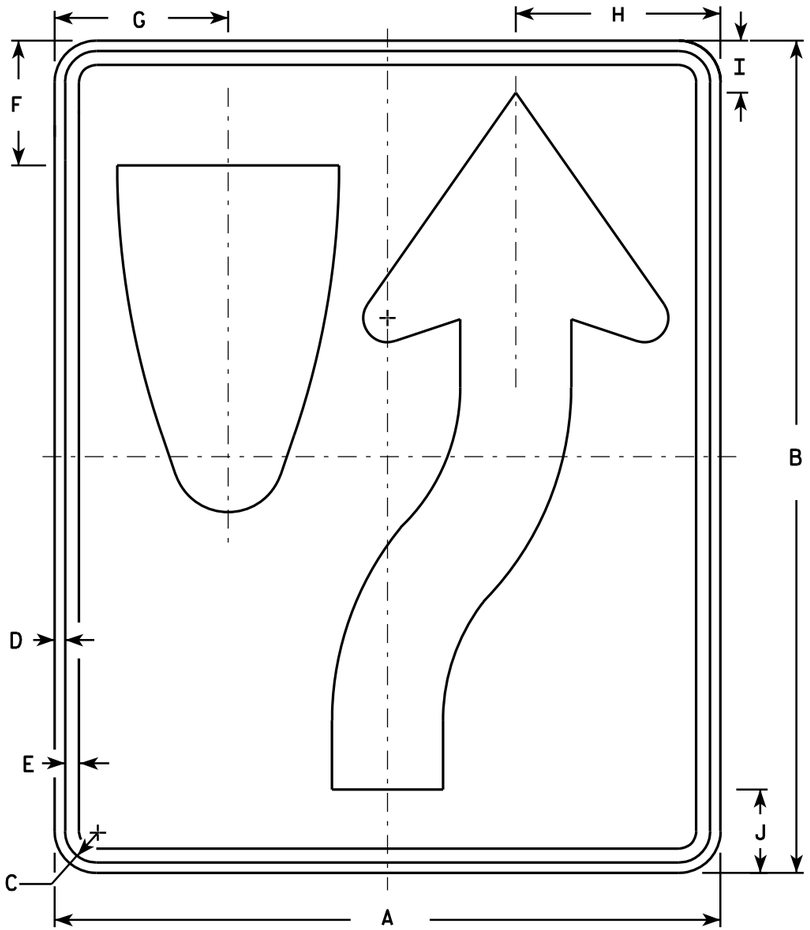
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/18/11 PLATE NO. R3-8V.3

PROJECT NO:

SHEET NO: 323 E

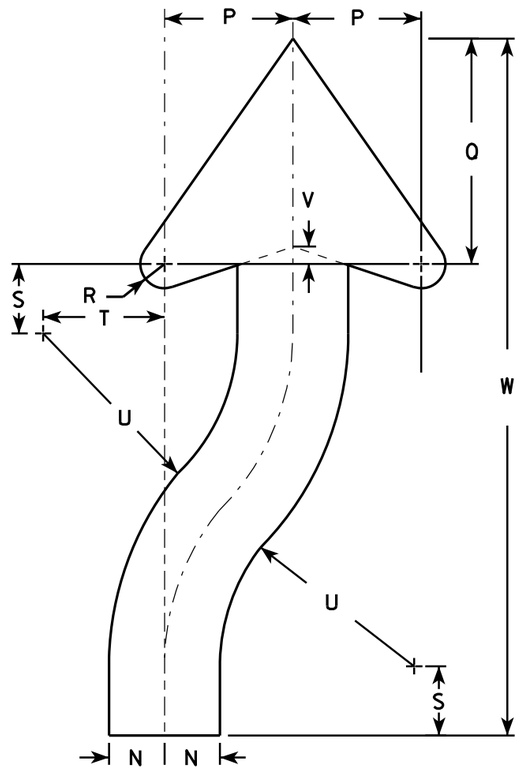




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0
2S	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2M	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0

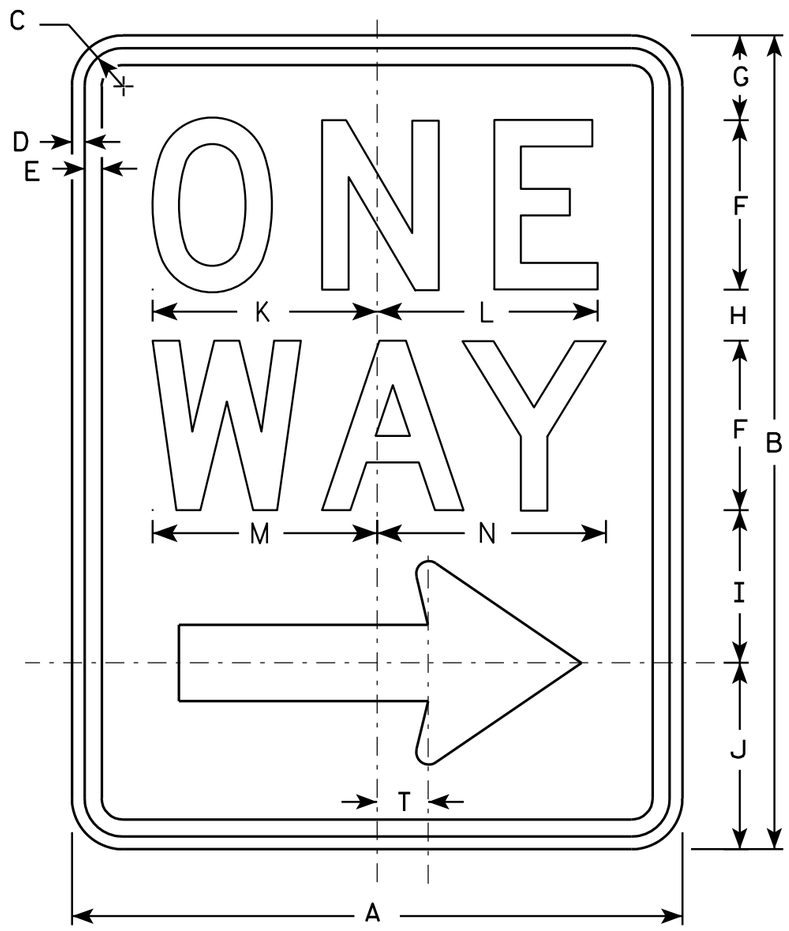
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-7.8

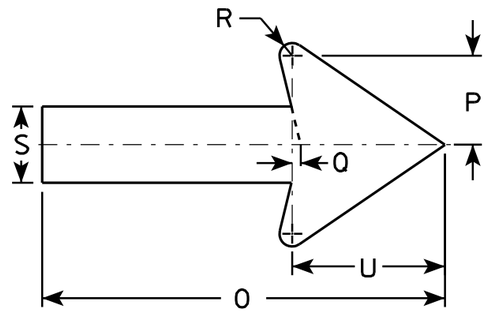
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 324	E



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2					
2S	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6					
2M	30	36	1 3/8	1/2	5/8	8	2 1/2	2 5/8	6 7/8	8	10 1/2	10 1/2	11 1/4	11 1/4	20	4 3/8	1/2	5/8	3 3/4	2 1/2	7 1/2					
3	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9					
5																										

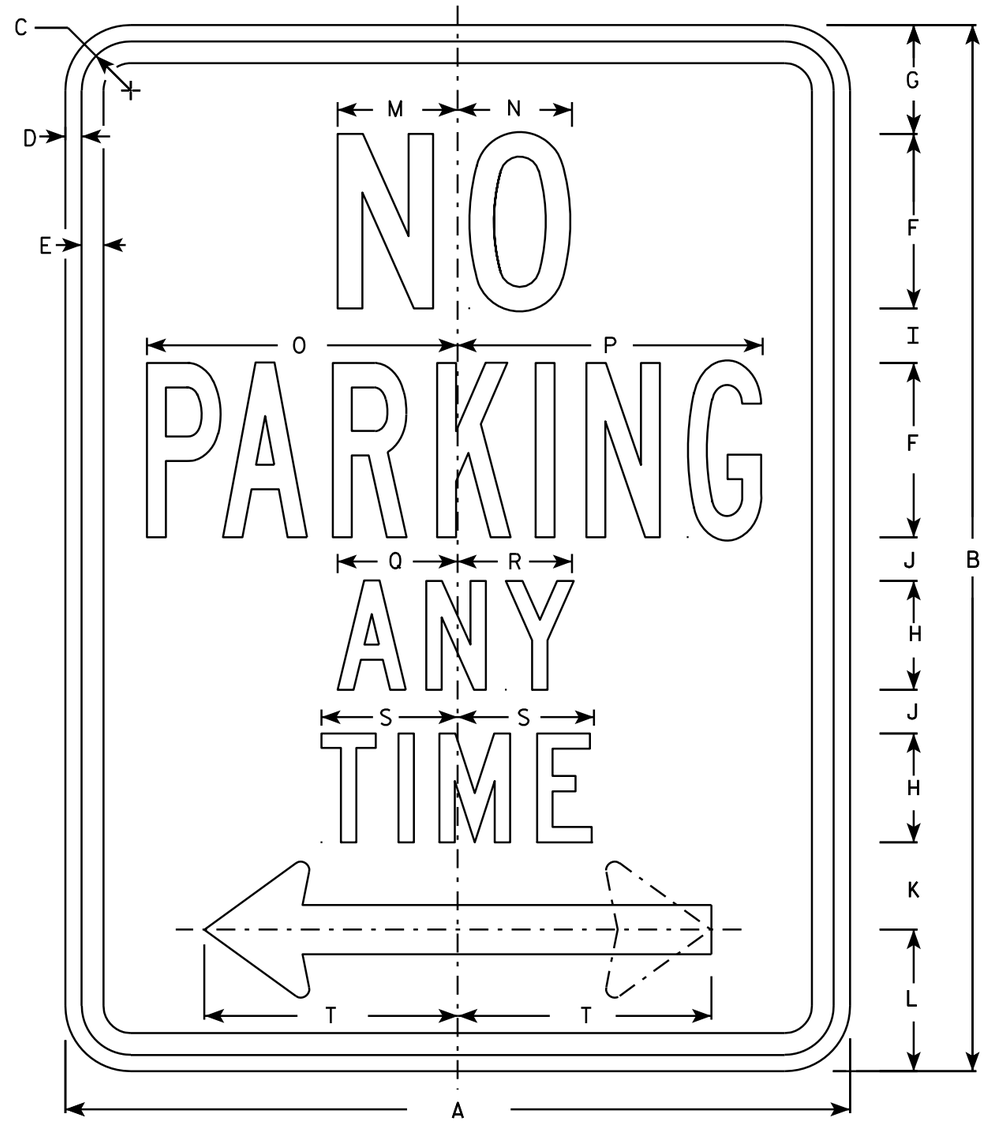
STANDARD SIGN
R6-2 R&L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/2/10 PLATE NO. R6-2.8

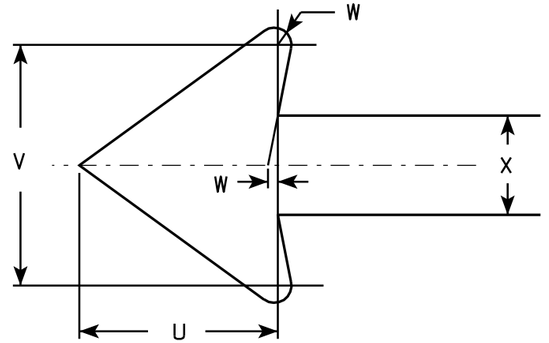
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 325	E



R7-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0
4																											
5																											

STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

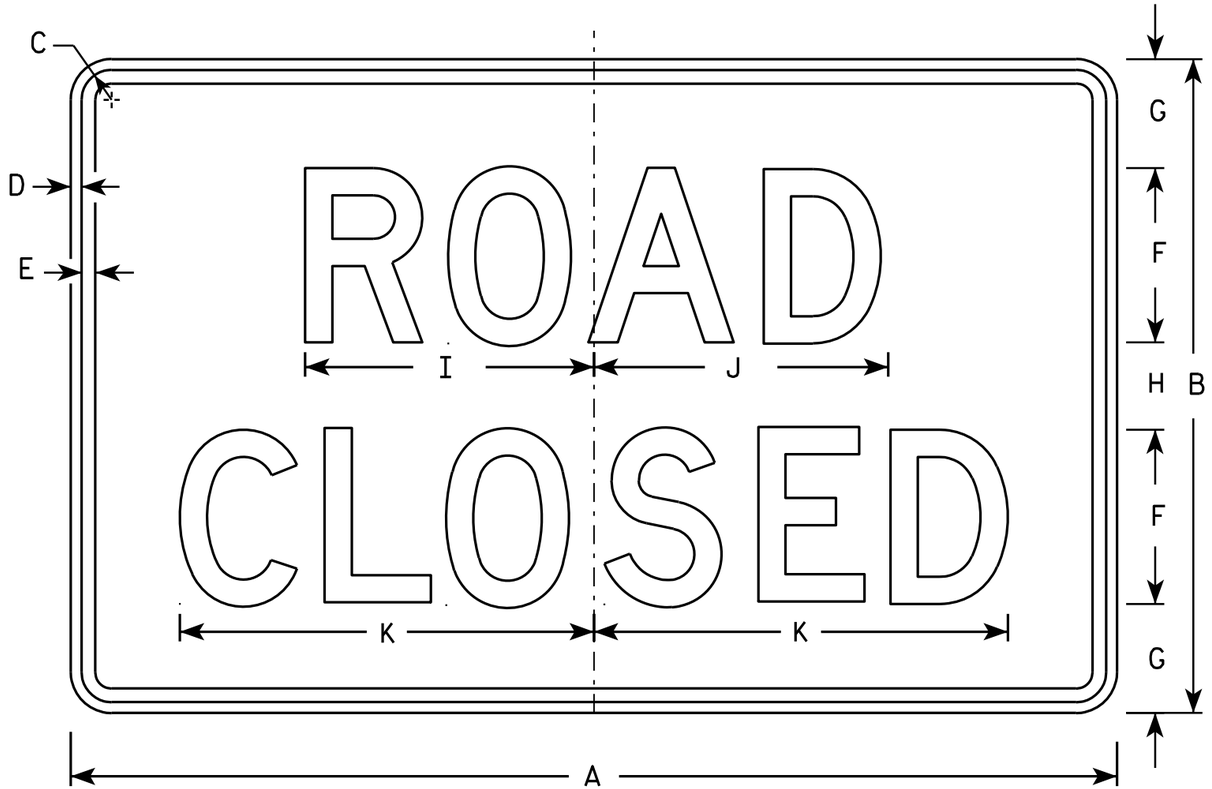
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 326	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R71.DGN PLOT DATE : 31-MAR-2011 09:20 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 3.476110:1.000000

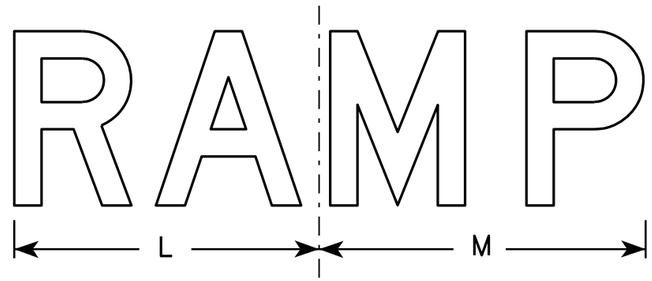
WISDOT/CADDS SHEET 42



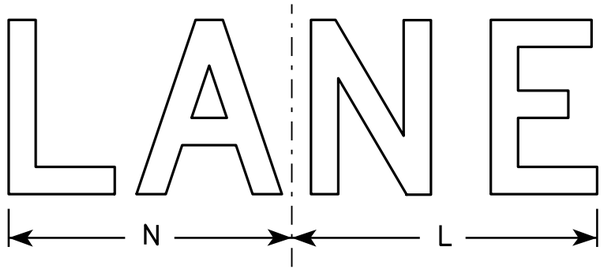
R11-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2L

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

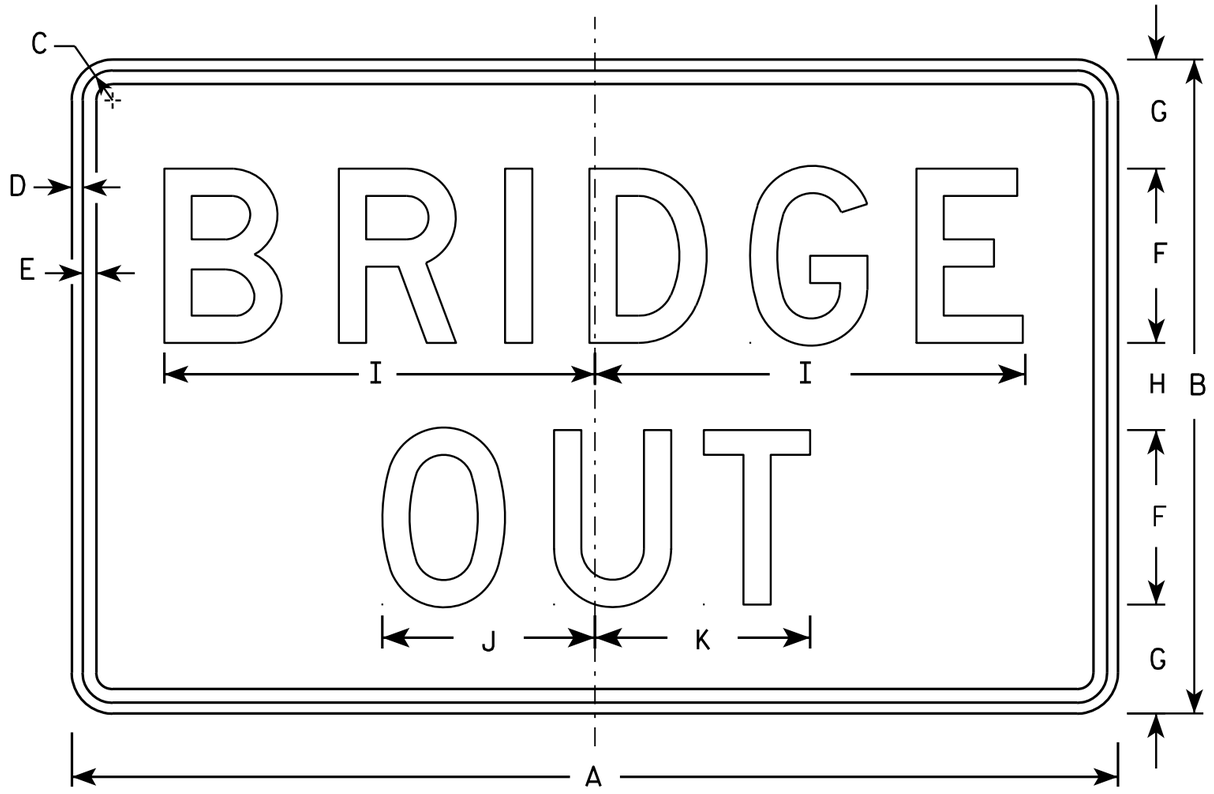
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 327 | E



R11-2B

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	19 3/4	9 3/4	9 7/8																10.0

STANDARD SIGN
R11-2B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2B.2

PROJECT NO:

SHEET NO: 328 E

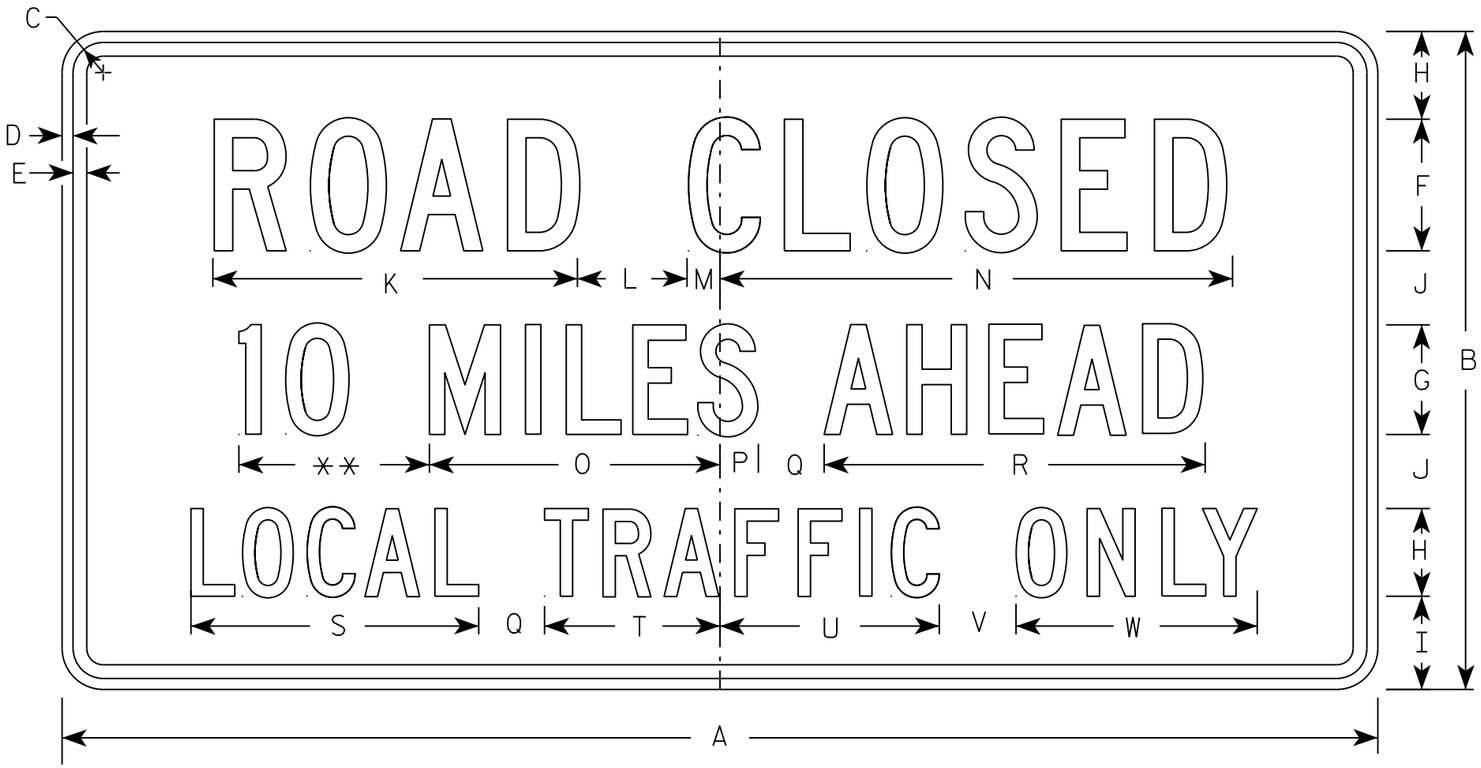
7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R112B.DGN PLOT DATE : 01-APR-2011 14:23 PLOT BY : mscj9h

WISDOT/CADDS SHEET 42

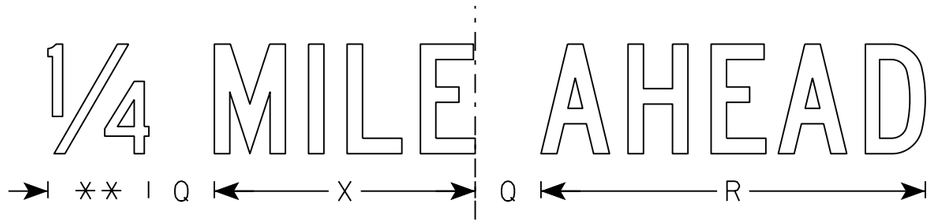
NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3

** See Note 5



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 3/8	1/2	5/8	4	3	2 1/2	2	2	11 1/8	3	1 1/8	15 1/4	8	1 1/2	2	10 3/4	8 3/8	4 3/4	6 1/2	2	6 3/4	7 1/8			4.5
2S	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11	11 7/8			12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11	11 7/8			12.5
3																											
4																											
5																											

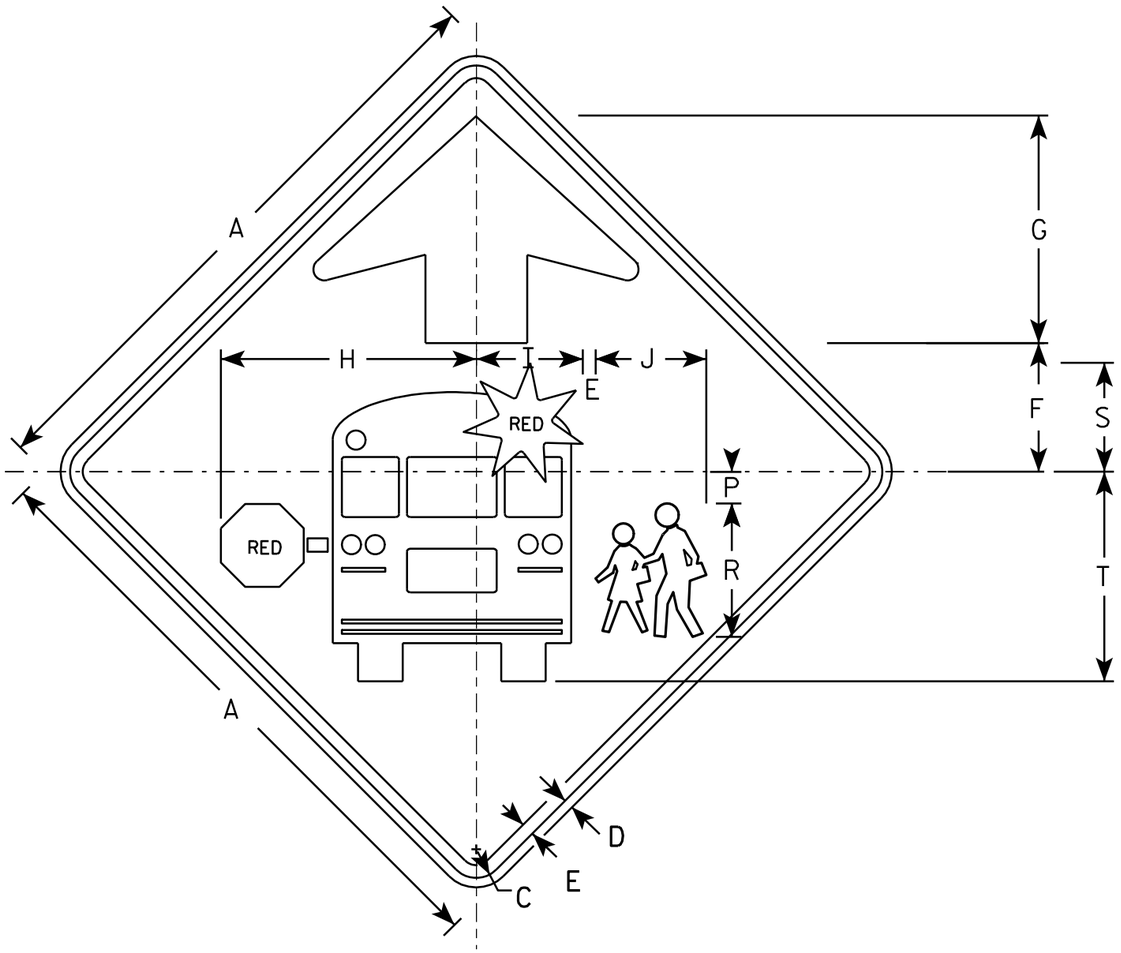
STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/15/17 PLATE NO. R11-3.8

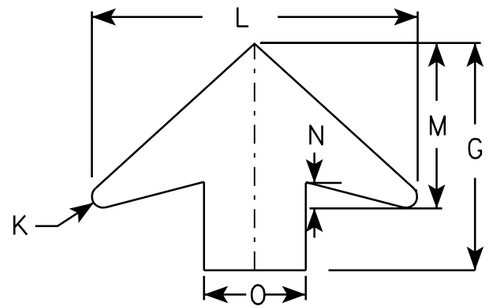
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 329	E



S3-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW-GREEN
   Message - BLACK except as noted
   Circles except PEDS- RED BACKGROUND
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	12 1/2	5 1/4	5 1/2	1/2	16	8	1 1/4	5	1 1/2		6 5/8	5 3/8	10 3/8							6.25
2	36		1 5/8	5/8	3/4	7 1/2	13 1/2	15 1/8	6 1/4	6 1/2	5/8	19 1/4	9 3/4	1 5/8	6	1 7/8		7 7/8	6 3/8	12 3/8							9.0
3	48		2 1/4	3/4	1	10	17 7/8	20 1/8	8 3/8	8 3/4	7/8	25 5/8	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
4	48		2 1/4	3/4	1	10	17 7/8	20 1/8	8 3/8	8 3/4	7/8	25 5/8	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
5																											

STANDARD SIGN
S3-1

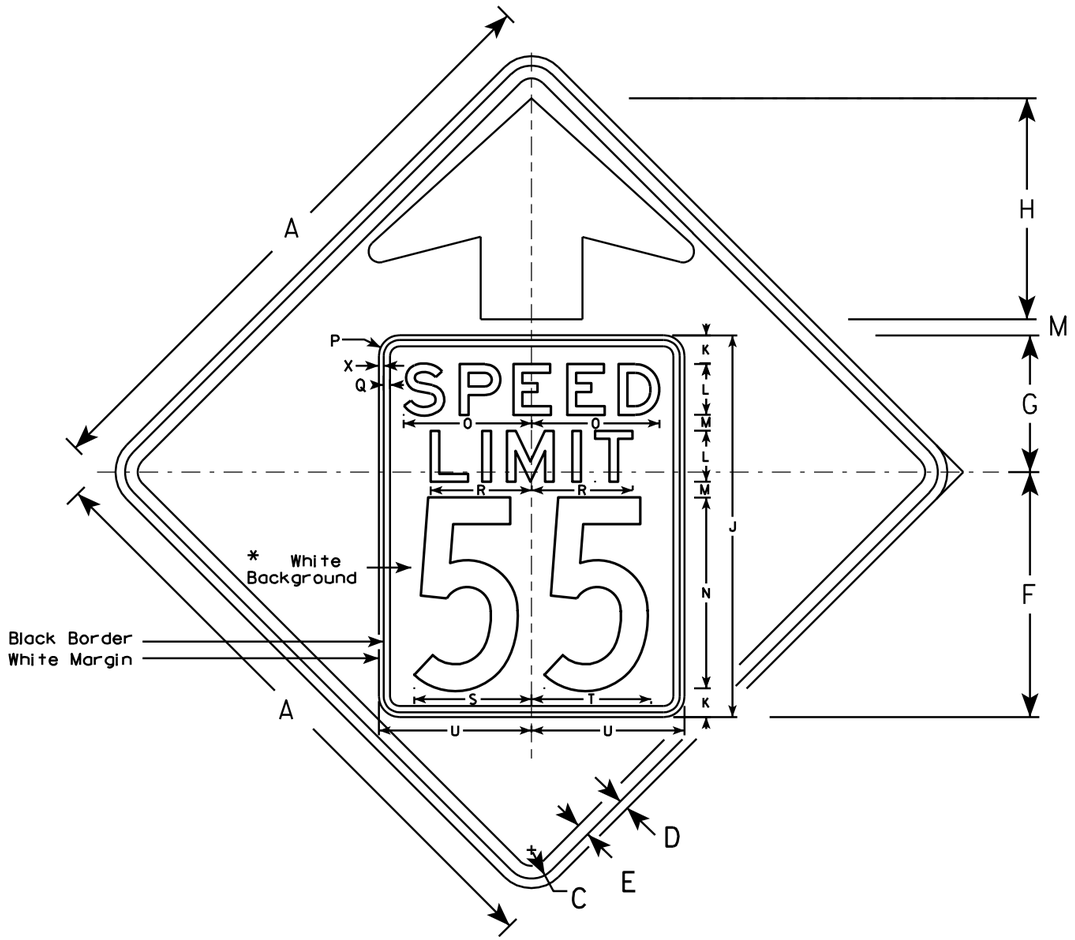
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/8/10 PLATE NO. S3-1.6

PROJECT NO:

SHEET NO: 330 E

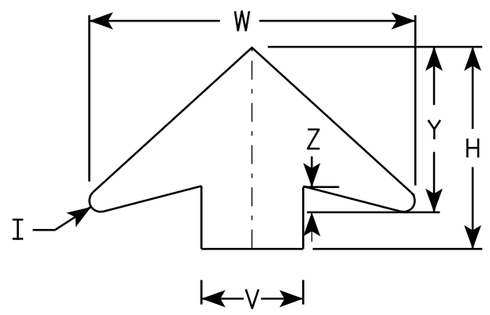


W3-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color: *
   Background - YELLOW*
   Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W3-5

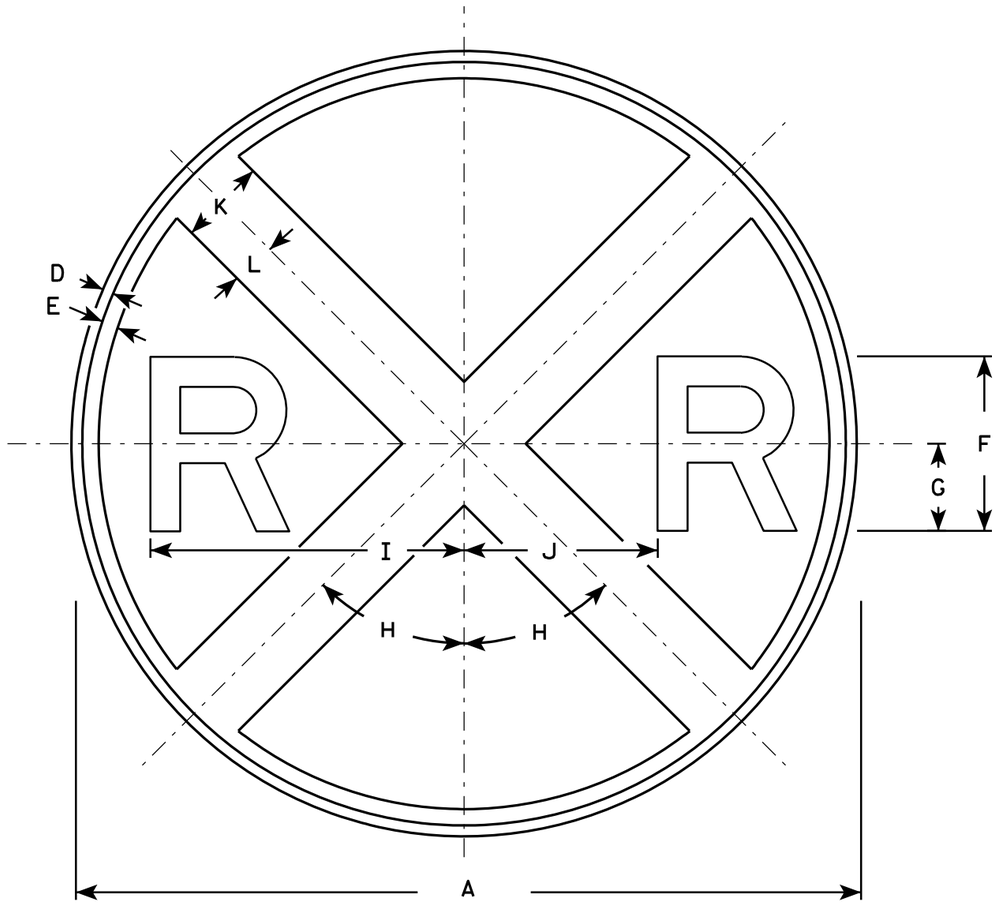
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W3-5.5

PROJECT NO:

SHEET NO: 331 E



W10-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30			3/8	5/8	7	3 1/2	45°	12 3/8	7 1/8	3	1 1/2															4.91
2S	36			5/8	3/4	8	4	45°	14 3/8	8 5/8	4	2															7.07
2M	36			5/8	3/4	8	4	45°	14 3/8	8 5/8	4	2															7.07
3																											
4	48			3/4	1 1/4	10	5	45°	18 3/8	11 5/8	5	2 1/2															12.57
5																											

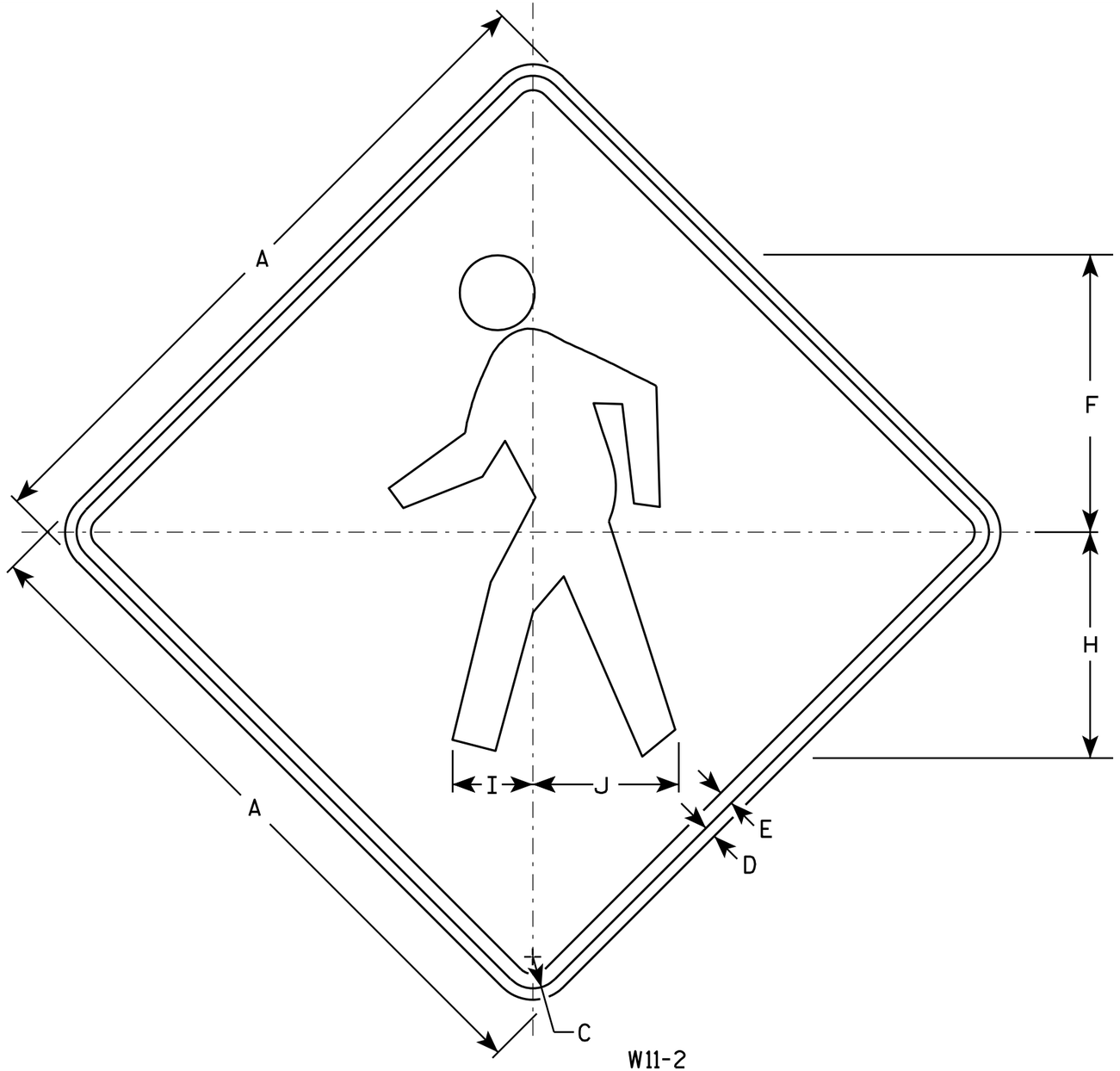
STANDARD SIGN
W10-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/13/13 PLATE NO. W10-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 332	E



W11-2

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	9 3/4		7 7/8	2 7/8	5 1/8																	4.0
2S	30		1 3/8	1/2	5/8	12 1/8		9 7/8	3 1/2	6 3/8																	6.25
2M	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
3	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
4	48		2 1/4	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
5																											

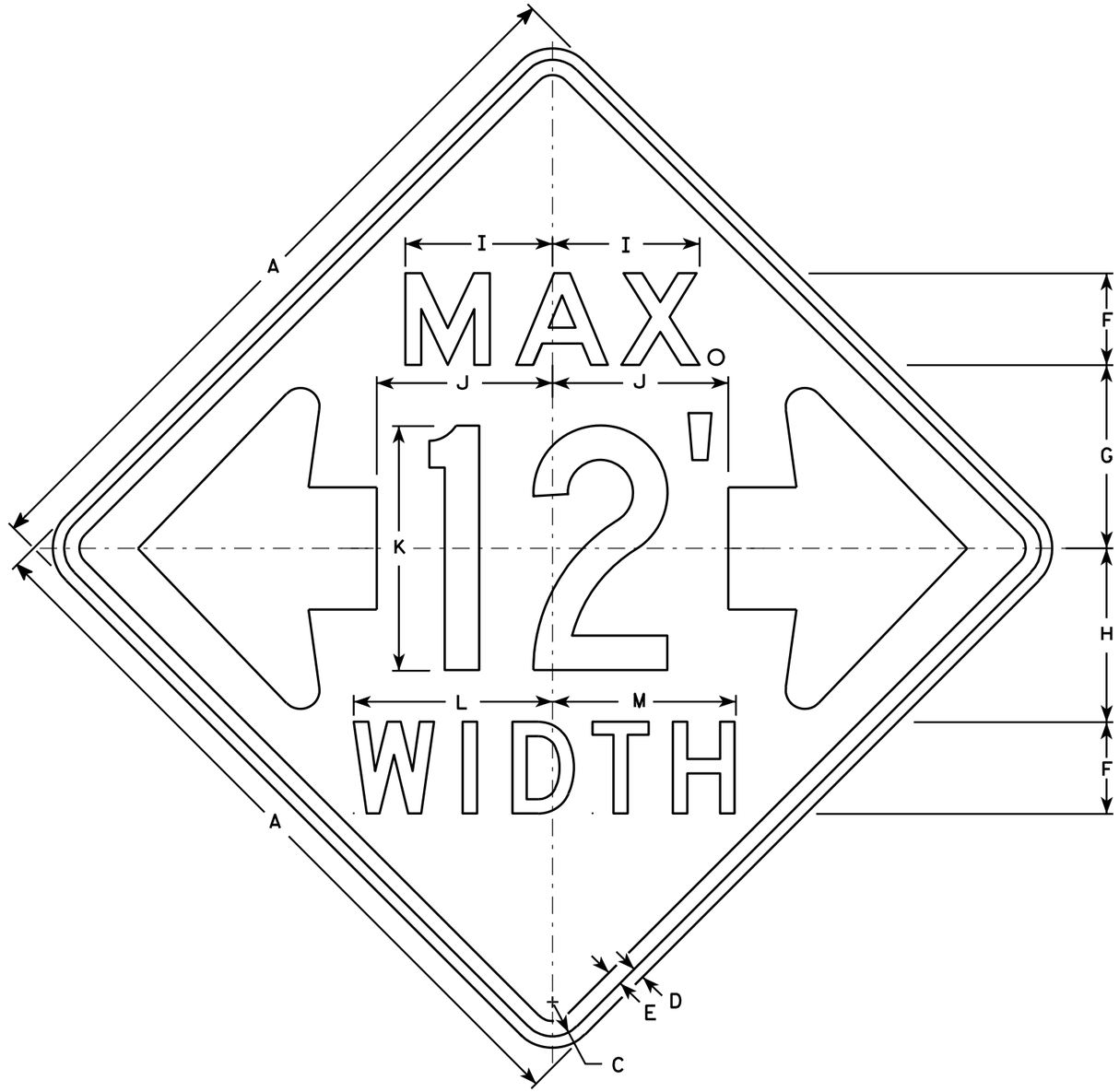
STANDARD SIGN
W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W11-2.7

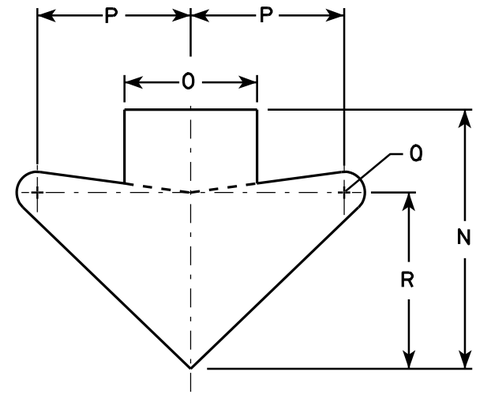
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 333	E



W12-52

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The top line is series E, the numerals are series C, and the bottom line is series D.
6. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
2M	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
3																											
4																											
5																											

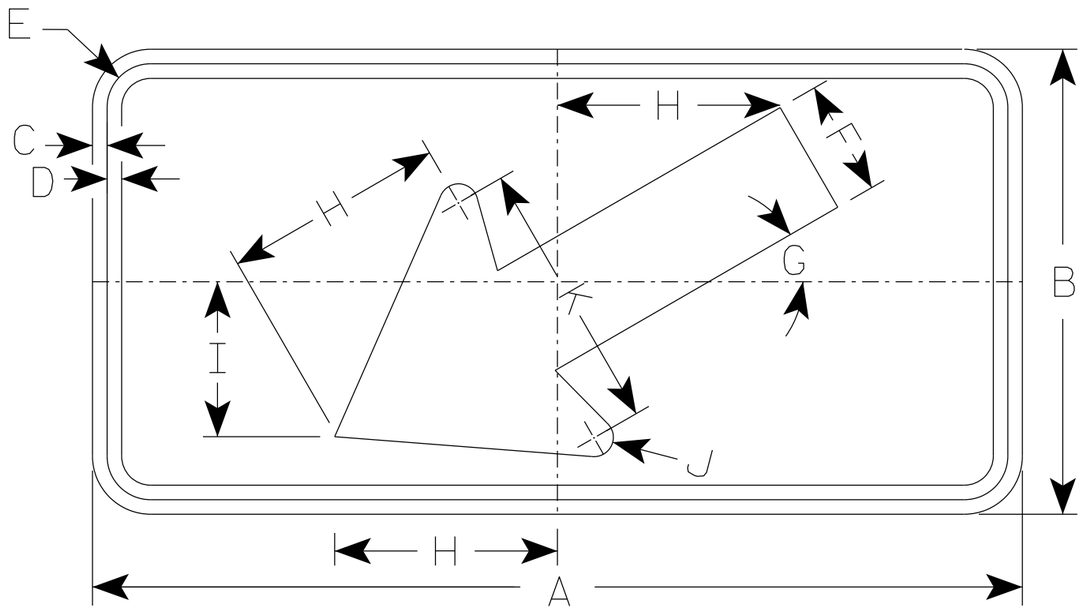
STANDARD SIGN
W12-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/11 PLATE NO. W12-52.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 334	E



W16-7L

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. W16-7R is the same as W16-L
   except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	24	12	3/8	3/8	1 1/8	3	30°	5 3/4	4	1/2	7																2.0
2M	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
3	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75
4	48	24	1/2	5/8	1 3/8	6	30°	11 1/2	8	1	14																8.0
5																											

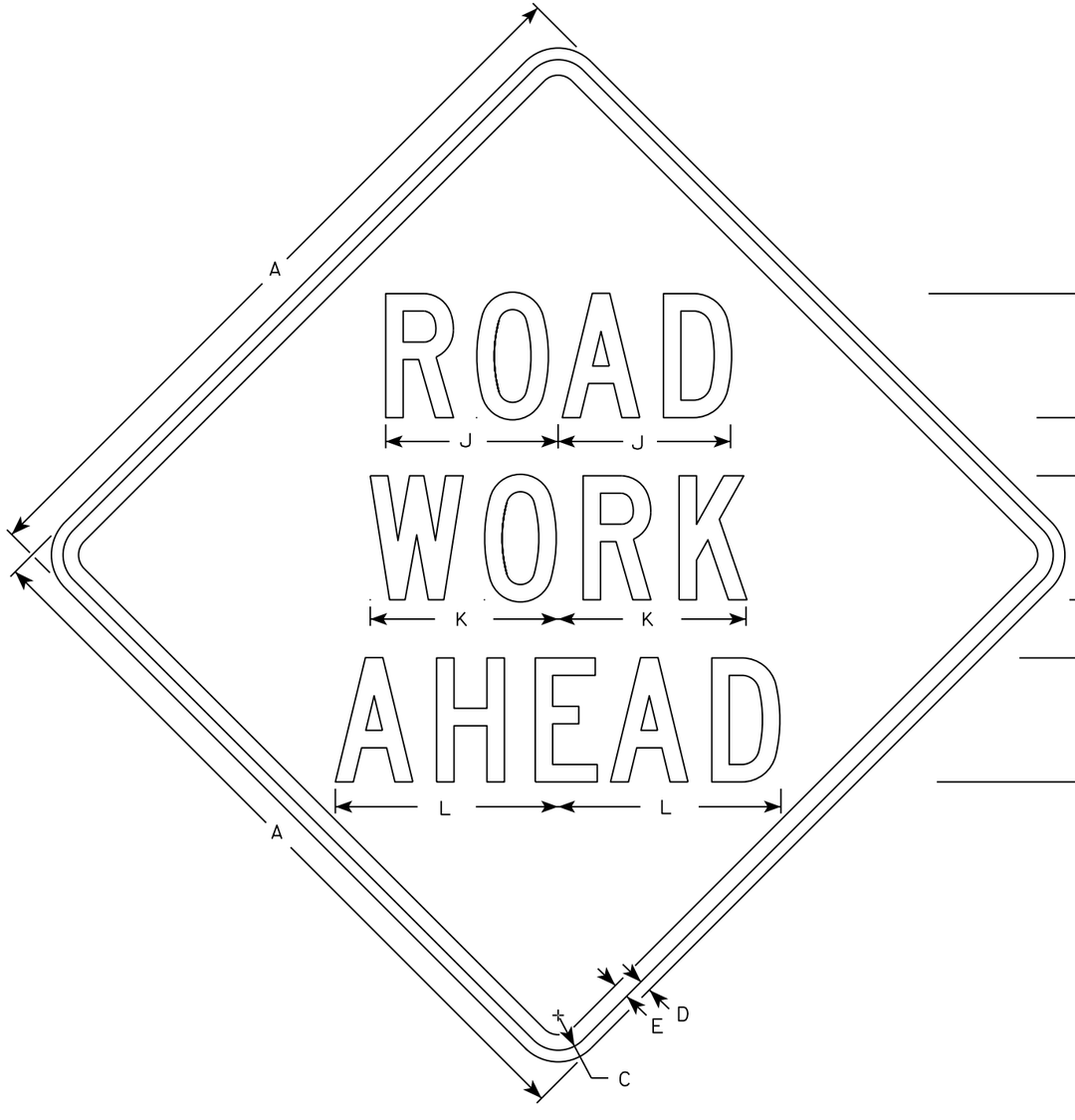
STANDARD SIGN
W16-7

WISCONSIN DEPT OF TRANSPORTATION

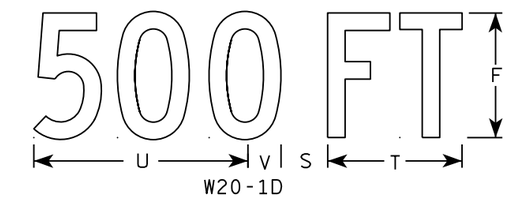
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 7/11/18 PLATE NO. W16-7.6

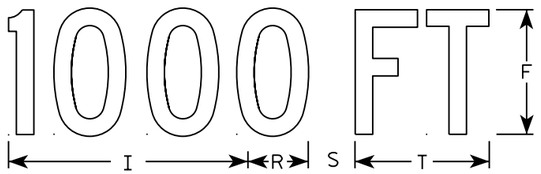
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 335 | E



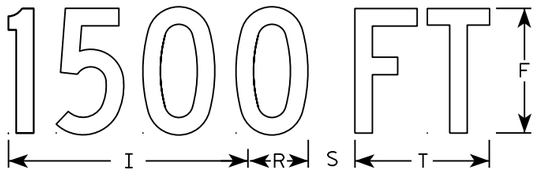
W20-1A



W20-1D



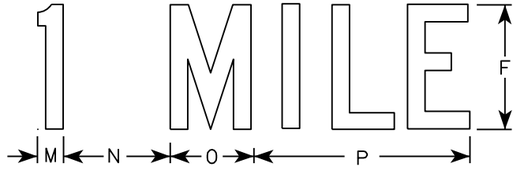
W20-1C



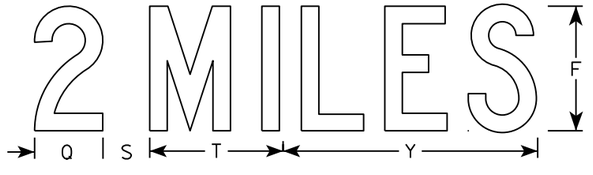
W20-1B



W20-1G



W20-1F



W20-1E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

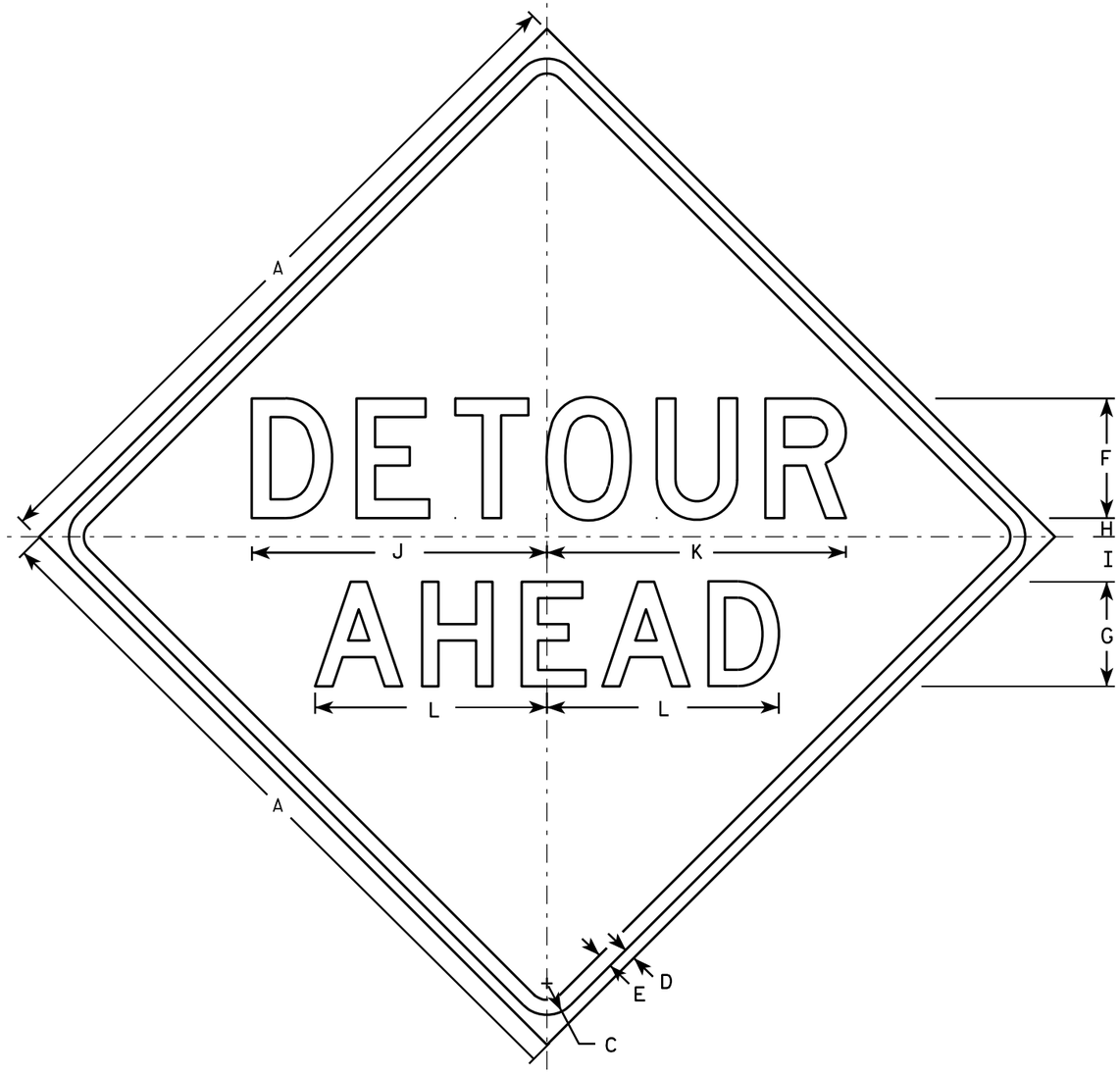
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/07/15 PLATE NO. W20-1.10

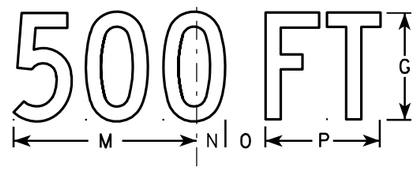
PROJECT NO:

SHEET NO: E

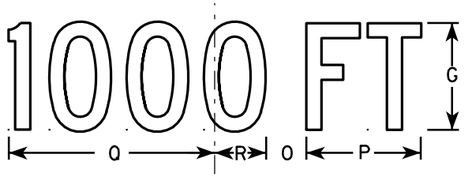
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 01-DEC-2015 18:24 PLOT BY : $$ plotuser $$



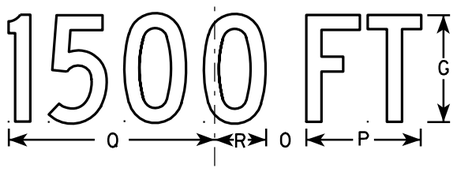
W20-2A



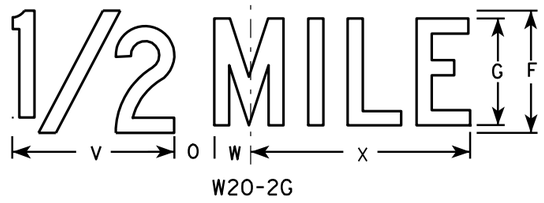
W20-2D



W20-2C



W20-2B



W20-2G



W20-2F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D.
   Line 2 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	5	1	2 1/4	14 3/4	15	11 5/8	9	1 3/8	1 7/8	5 5/8	10 1/8	2 1/2	1 1/8	4 1/2	3 1/2	8	1 3/4	10 3/4			9.0
2S	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
2M	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
3	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
4	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0
5	48		2 1/4	3/4	1	8	7	1 1/4	3	19 3/4	20	15 1/2	12	1 7/8	2 5/8	7 1/2	13 1/2	3 3/8	1 1/2	6	4 5/8	10 5/8	2 3/8	14 3/8			16.0

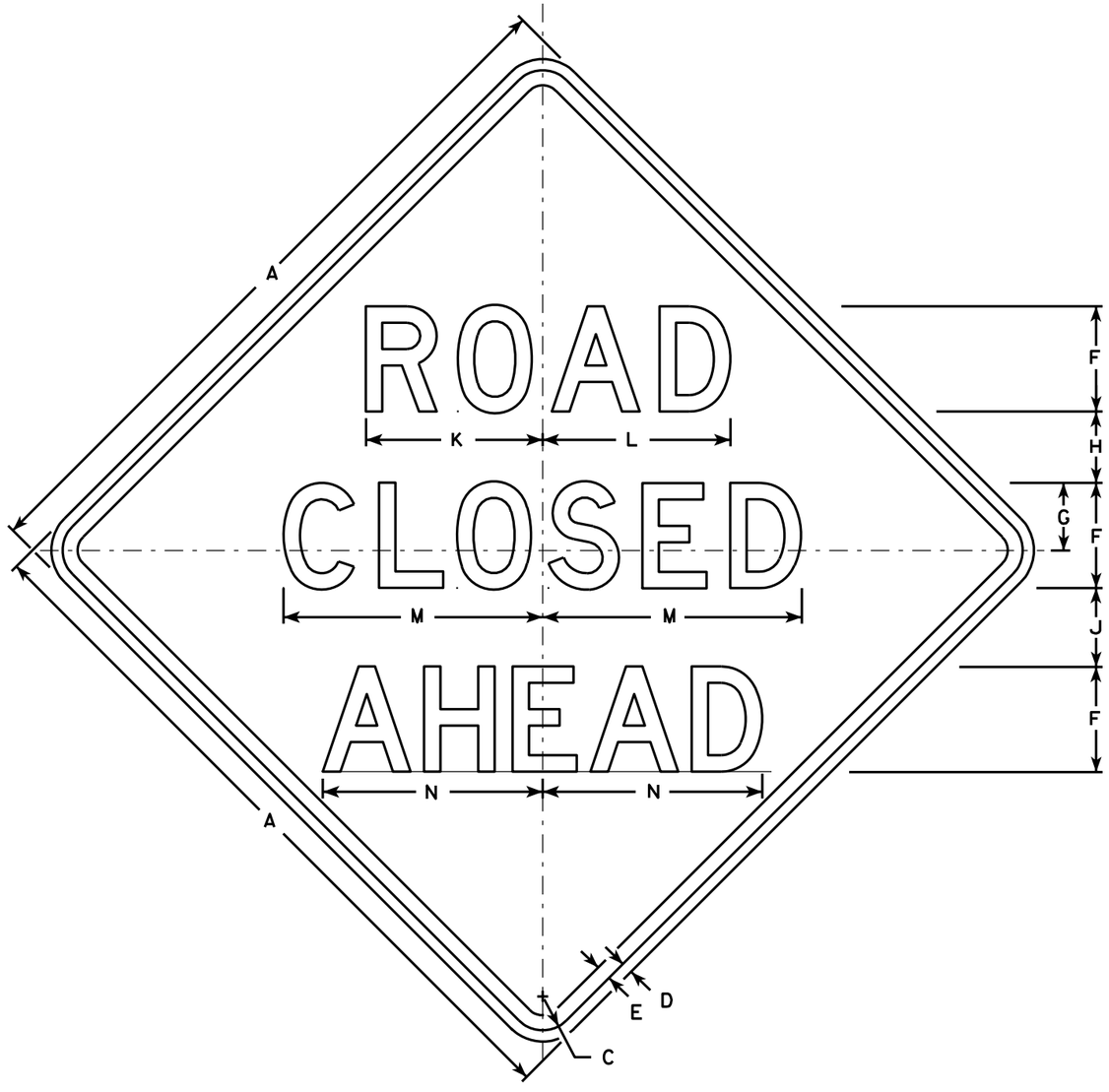
STANDARD SIGN
W20-2A,B,C,D,F & G

WISCONSIN DEPT OF TRANSPORTATION

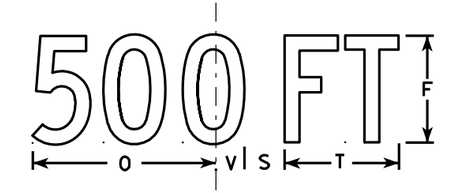
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-2.6

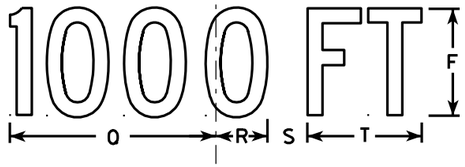
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 337	E



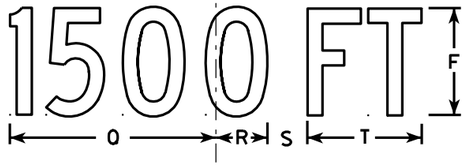
W20-3A



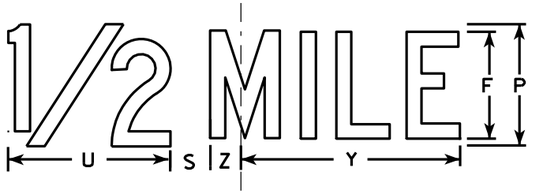
W20-3D



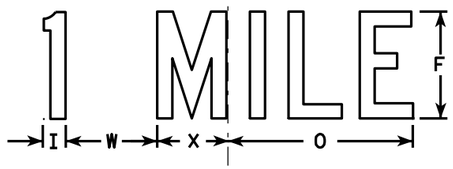
W20-3C



W20-3B



W20-3G



W20-3F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - see note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-3.7

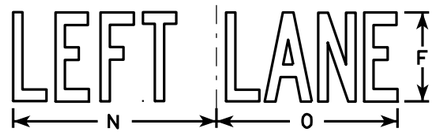
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 338 | E

7

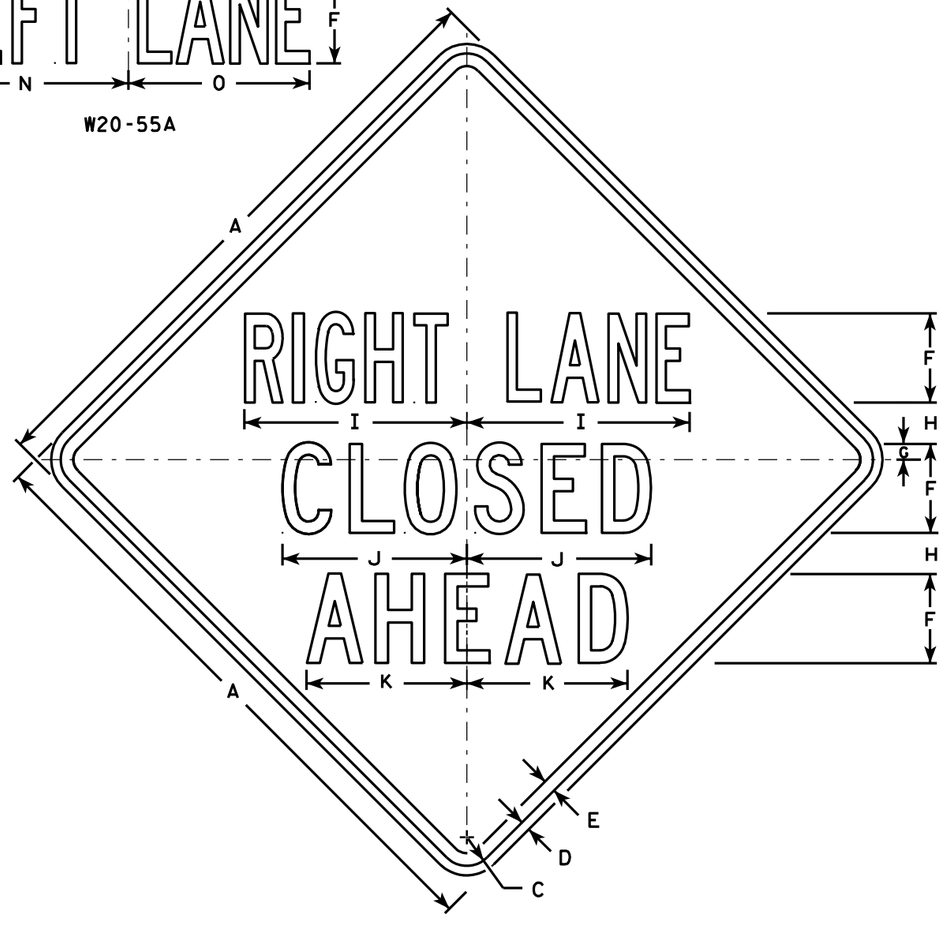
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN PLOT DATE : 18-MAR-2011 12:08 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000
WISDOT/CADDS SHEET 42



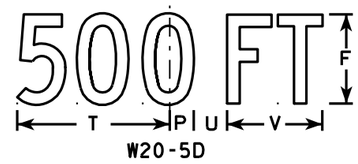
W20-56A



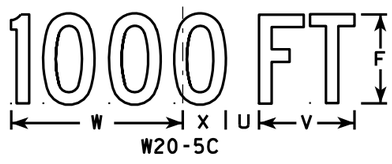
W20-55A



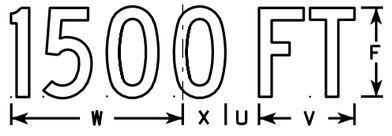
W20-5A



W20-5D



W20-5C



W20-5B



W20-5G



W20-5F

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. " _____ LANE" is Series B.
   All other copy is Series C.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	6	1 5/8	5/8	3/4	5	1/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

STANDARD SIGN
W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

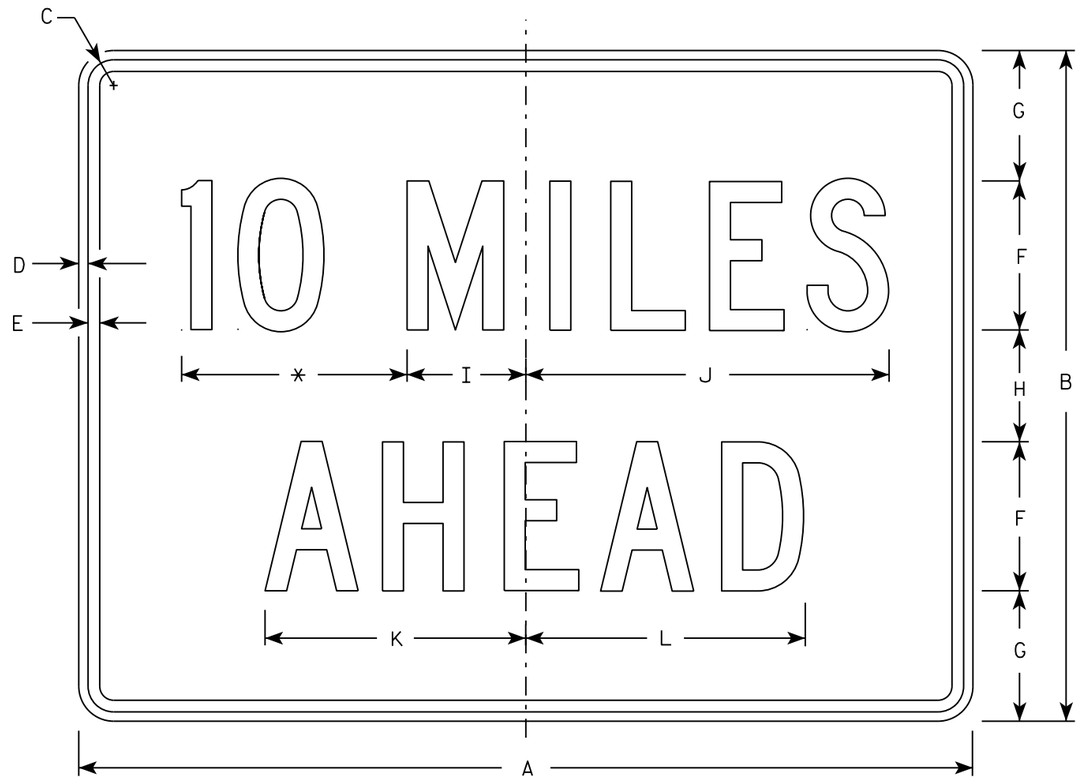
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

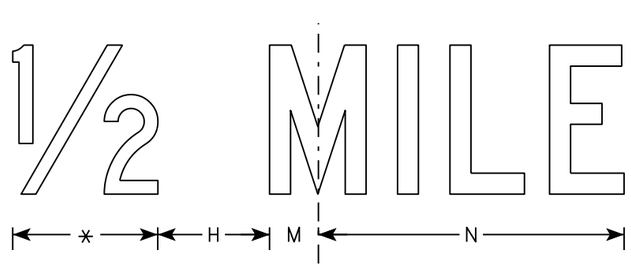
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 339	E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W205.DGN PLOT DATE : 18-MAR-2011 12:15 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 11.918087:1.000000
WISDOT/CADDS SHEET 42



W57-52



* See note 5

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Yellow
   Message - Black
3. Message Series - C
4. Corners and borders shall be rounded.
5. Substitute appropriate numerals to the nearest quarter mile and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24	18	1 1/8	3/8	1/2	4	3 1/2	3	3 1/8	9 3/4	7	7 1/2	1 3/8	8 1/4													3.0
2S	36	24	1 1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 5/8	10 5/8	11 3/8	2	12													6.0
2M	36	24	1 1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 5/8	10 5/8	11 3/8	2	12													6.0
3	36	24	1 1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 5/8	10 5/8	11 3/8	2	12													6.0
4	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
5	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0

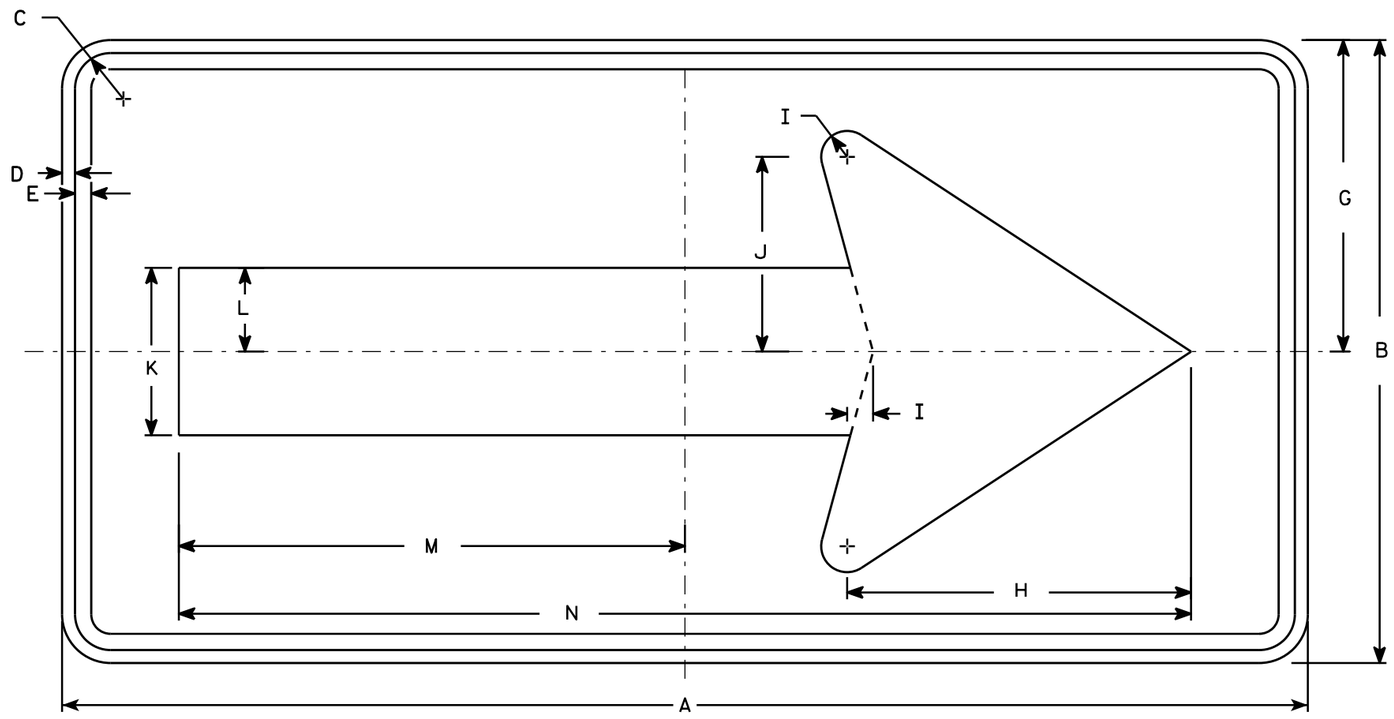
STANDARD SIGN
W57-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/21/17 PLATE NO. W57-52.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 340	E



W01-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
W01-6

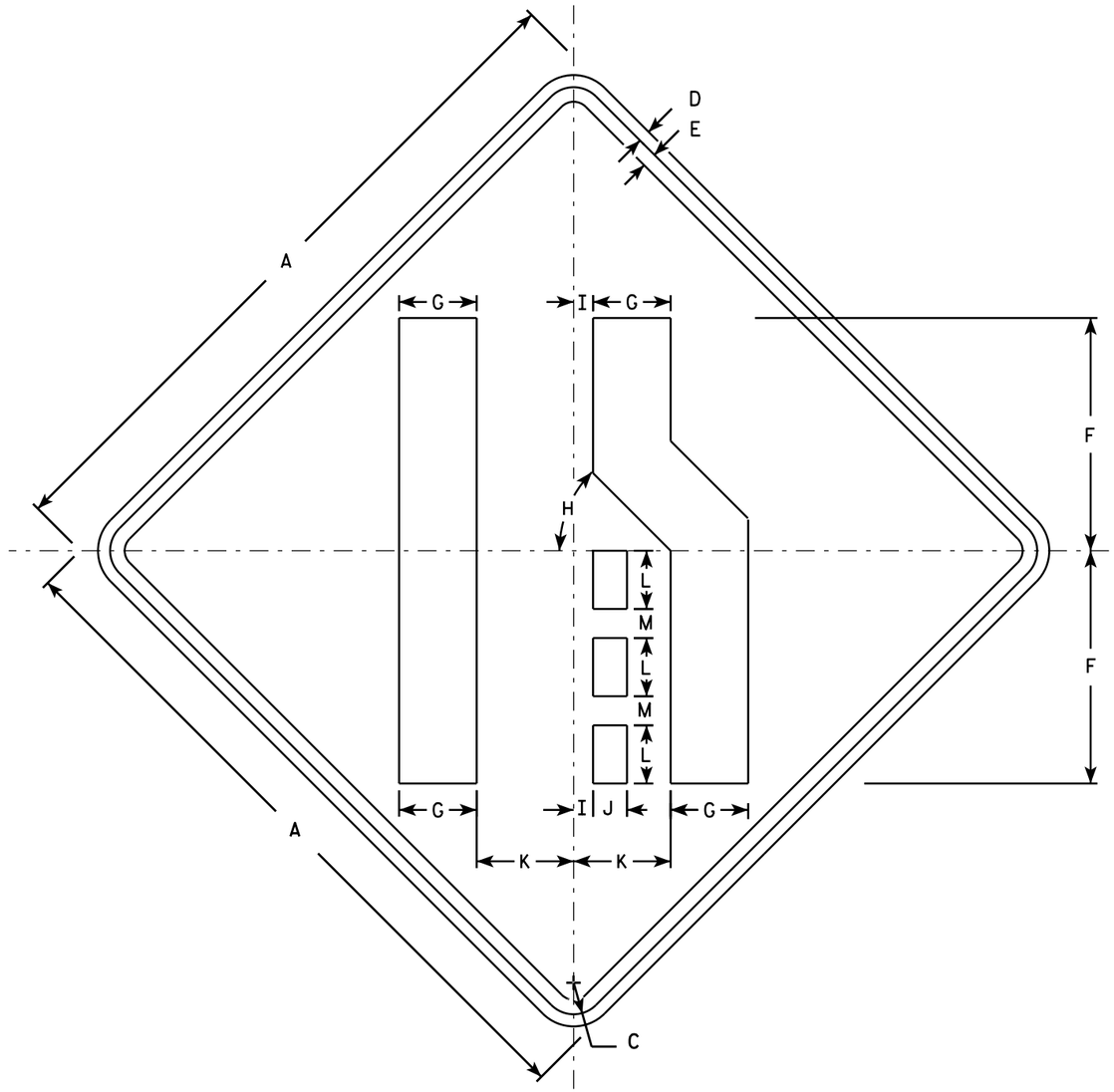
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO. W01-6.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42



W04-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

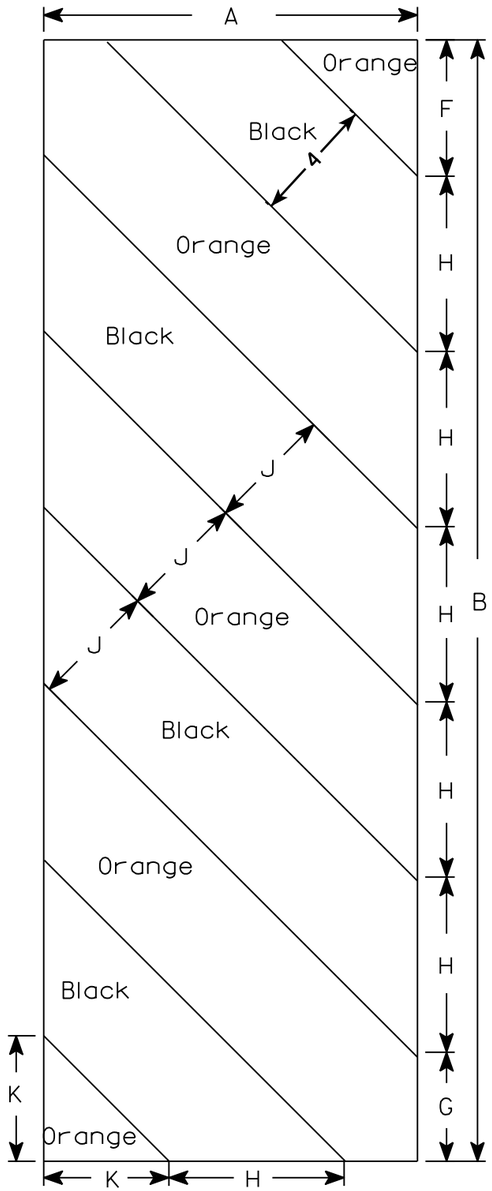
STANDARD SIGN
W04-2

WISCONSIN DEPT OF TRANSPORTATION

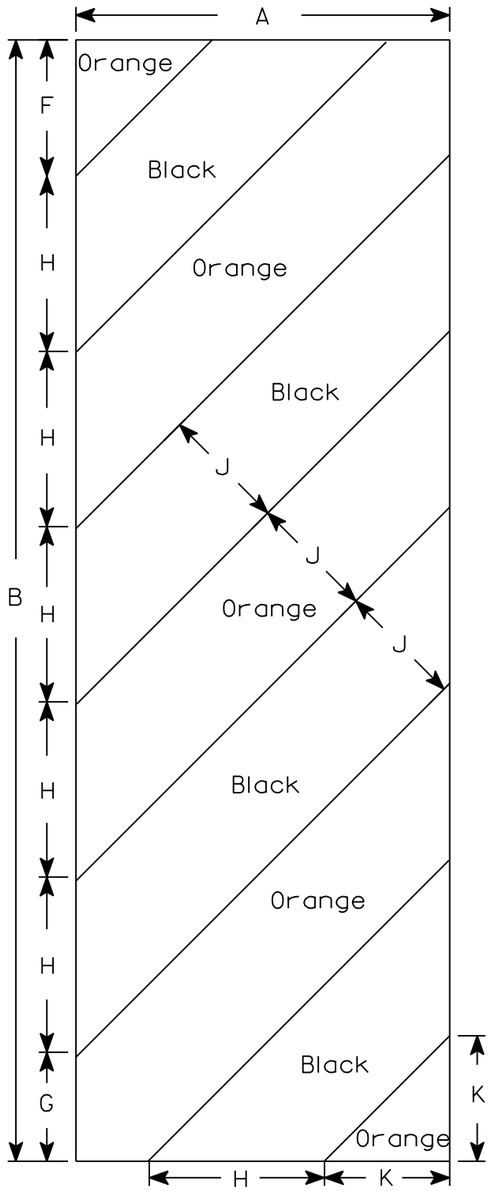
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE 342 W04-2.1

PROJECT NO: | SHEET NO: E



W05-52L



W05-52R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Alternate colors of stripes as shown.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

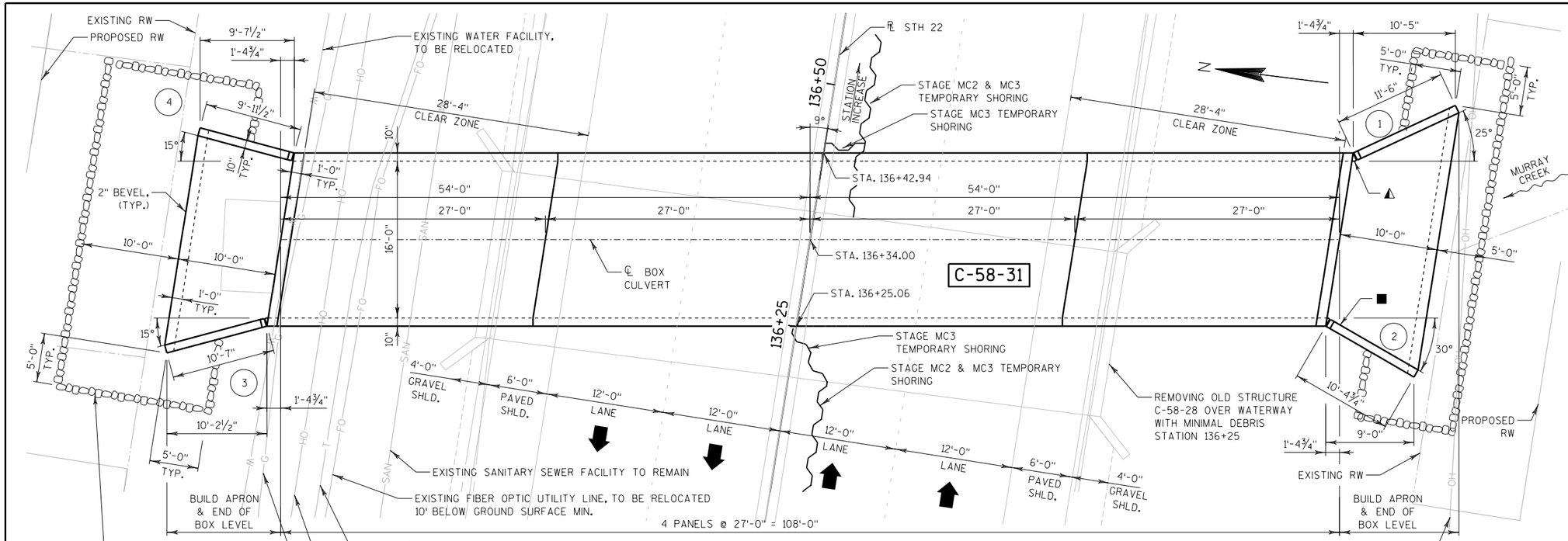
W05-52L & W05-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

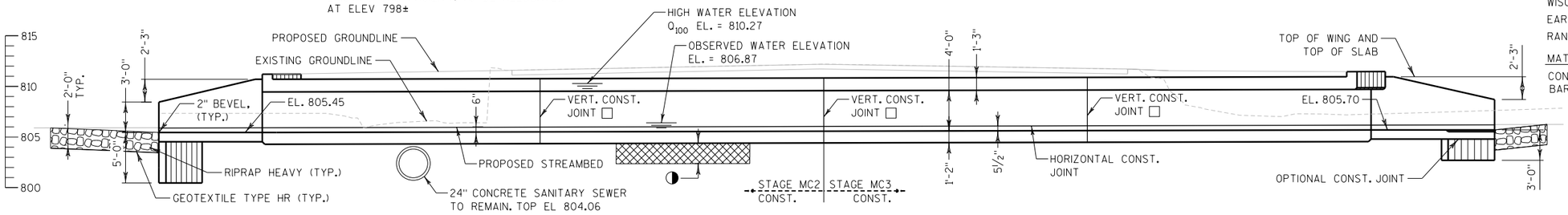
DATE 11/20/13 PLATE W05-52.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



PLAN

(SINGLE CELL BOX CULVERT)



OUTLET ELEVATION INLET

100 YEAR HYDRAULIC DATA

Q_{100} = 355 C.F.S.
VELOCITY = 7.35 F.P.S.
HW_{100} , = 810.27
WATERWAY AREA = 48.0 SQ. FT.
DRAINAGE AREA = 3.1 SQ. MI.
ROADWAY OVERTOPPING = N/A
SCOUR CRITICAL CODE = 8

2 YEAR HYDRAULIC DATA

Q_2 = 75 C.F.S.
VELOCITY = 2.30 F.P.S.
HW_2 , = 808.17

LIST OF DRAWINGS

1. GENERAL PLAN & ELEVATION
2. BOX CULVERT DETAILS
3. APRON DETAILS
4. APRON DETAILS 2
5. SUBSURFACE EXPLORATION

TRAFFIC DATA

STH 22
ADT (2019) = 11,200
ADT (2039) = 15,400
RDS = 45 M.P.H.

DESIGN DATA

LIVE LOAD: HL-93
INVENTORY RATING FACTOR: RF = 1.05
OPERATING RATING FACTOR: RF = 1.35
WISCONSIN STANARD PERMIT VEHICLE (WIS-SPV) = 255 KIPS
EARTH LOAD: DESIGNED FOR FILL HEIGHT RANGE OF 0.5 TO 1.5 FEET.

MATERIAL PROPERTIES:
CONCRETE MASONRY _____ f'c = 3.5 K.S.I.
BAR STEEL REINFORCEMENT _____ fy = 60 K.S.I.

STRUCTURE DESIGN CONTACTS

BRIDGE OFFICE: WILLIAM DREHER (608) 266-8489
CONSULTANT: MICHAEL D. RADTKE (414) 347-1607

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

THE CONCRETE IN THE CUT OFF WALL MAY BE PLACED UNDERWATER IF THE EXCAVATION CANNOT BE DEWATERED.

THE EXISTING STRUCTURE (C-58-28) IS A 12'X4' THREE SIDED CONCRETE BOX CULVERT APPROXIMATELY 64'-6" FEET IN LENGTH. CONTRACTOR SHALL REMOVE EXISTING BOX CULVERT C-58-28 PILINGS AND CONCRETE FOOTING COMPONENTS TO A DEPTH OF 2'-0" BELOW THE PROPOSED BOX CULVERT.

THE CONTRACTOR MAY FURNISH A PRECAST CONCRETE BOX CULVERT IN LIEU OF THE CAST-IN-PLACE BOX CULVERT WITH THE ACCEPTANCE OF THE SHOP DRAWINGS BY THE STRUCTURES DESIGN SECTION. THE PRECAST CONCRETE BOX CULVERT SHALL CONFORM TO THE PRECAST DETAILS IN CHAPTER 36 OF THE CURRENT WISCONSIN DOT BRIDGE MANUAL. PAYMENT FOR THE PRECAST CULVERT SHALL BE BASED ON QUANTITIES AND PRICES BID FOR THE ITEMS LISTED IN THE "TOTAL ESTIMATED QUANTITIES".

SEE ROADWAY PLANS FOR TEMPORARY DIVERSION CHANNEL DETAILS. WORK TO BE PAID FOR UNDER ROADWAY BID ITEMS EXCEPT EXCAVATION FOR TEMPORARY BYPASS CHANNEL WILL BE INCLUDED IN BID ITEM, "EXCAVATION FOR STRUCTURES CULVERTS C-58-31".

SEE CONTRACT SPECIAL PROVISIONS FOR MORE DETAILS ON PROPOSED UTILITY RELOCATIONS.

SEE ROADWAY PLANS FOR MORE DETAILS ON CONSTRUCTION AND TRAFFIC STAGING.

BENCH MARK

NO.	STATION	DESCRIPTION	EL.
600	137+40 (48' LEFT)	RR SPIKE IN POWER POLE	809.89

LEGEND

(X) INDICATES WING NUMBER

◭ FOR CORNER DETAILS, SEE "APRON DETAILS" SHEETS

■ FOR NAME PLATE LOCATION, SEE "BOX CULVERT DETAIL" SHEET

◑ UNDERCUT 2'-0" MINIMUM (INCLUDED IN EXCAVATION FOR STRUCTURES), FIELD ENGINEER TO DETERMINE IF ADDITIONAL EXCAVATION IS NEEDED BASED ON FIELD CONDITIONS, PLACE GEOTEXTILE TYPE 'C', AND BACKFILL WITH 'BREAKER RUN'. EXTEND 3'-0" BEYOND THE FOOTPRINT OF THE CULVERT. UNDERCUT TO INCLUDE AREA UNDER APRONS.

☐ PLACE AN 18" (MIN.) WIDE SHEET OF RUBBERIZED MEMBRANE WATERPROOFING OVER ALL VERTICAL CONSTRUCTION JOINTS AND EXTEND DOWN TO 6" MIN. BELOW THE TOP OF THE BOTTOM SLAB. WORK TO BE INCLUDED IN BID ITEM, "RUBBERIZED MEMBRANE WATERPROOFING". PLACE MEMBRANE WATERPROOFING ON TOP OF TOP SLAB OF CULVERT. WORK TO BE INCLUDED IN BID ITEM, "SHEET MEMBRANE WATERPROOFING FOR TOP SLAB C-58-31".

WISCONSIN
MICHAEL D. RADTKE
E-40967
ELM GROVE, WI
PROFESSIONAL ENGINEER
8/21/2018

NO.	DATE	REVISION	BY

emcs LLC
1300 W. Canal Street, Suite 200
Milwaukee, WI 53233
414.347.1607 Fax 414.347.1347

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
ACCEPTED William C. Dreher SDR 11/13/18
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE C-58-31

STH 22 OVER MURRAY CREEK

COUNTY	CITY
SHAWANO	SHAWANO

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
SMK	MDR	SMK	MDR

GENERAL PLAN & ELEVATION

SHEET 1 OF 5
344

STATE PROJECT NUMBER
9180-23-71

8

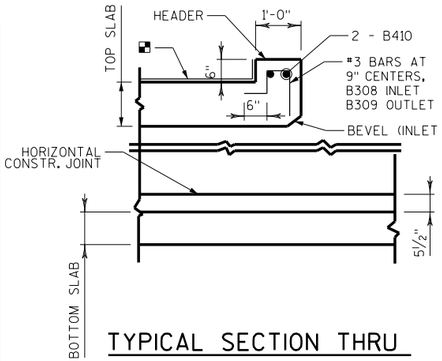
8

STATE PROJECT NUMBER

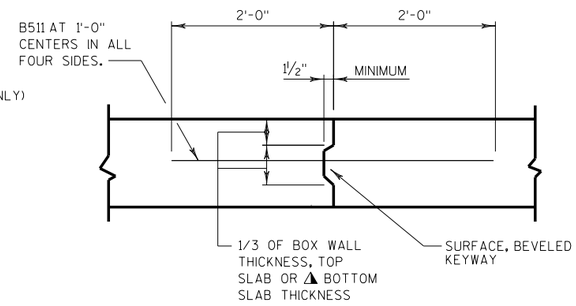
9180-23-71

TOTAL ESTIMATED QUANTITIES

BID ITEM NO.	BID ITEMS	UNIT	INLET	BARREL	OUTLET	TOTAL
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA. 136+25.00	LS	-	-	-	1
206.2000	EXCAVATION FOR STRUCTURES CULVERTS C-58-31	LS	-	-	-	1
210.2500	BACKFILL STRUCTURE TYPE B	TON	53	803	56	912
311.0110	BREAKER RUN	TON	45	379	40	464
504.0100	CONCRETE MASONRY CULVERTS	CY	13	199	14	226
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	430	31790	440	32660
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	470	-	440	910
511.1200	TEMPORARY SHORING C-58-31	SF	-	315	-	315
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	6	7	6	19
516.0610.S	SHEET MEMBRANE WATERPROOFING FOR TOP SLAB C-58-31	SY	-	236	-	236
606.0300	RIPRAP HEAVY	CY	18	-	29	47
645.0105	GEOTEXTILE TYPE C	SY	-	340	-	340
645.0120	GEOTEXTILE TYPE HR	SY	44	-	60	104
	NON-BID ITEMS					
	FILLER	SIZE	3/4"			



TYPICAL SECTION THRU CULVERT HEADERS



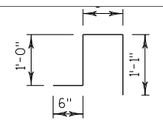
CONSTRUCTION JOINT

⚠ IN LIEU OF CONSTRUCTION JOINTS IN THE BOTTOM SLAB, THE CONTRACTOR MAY USE 2" DEEP SAW CUTS WITHIN 12 HOURS AFTER POURING.

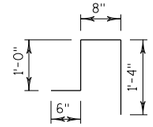
BILL OF BARS FOR BARREL

BAR MARK	NO.	LENGTH	BENT	LOCATION
B601	432	17'-7"		TOP & BOT SLAB TRANS. I.F.
B402	108	17'-7"		TOP SLAB TRANS. O.F.
B403	256	26'-8"		TOP & BOT SLAB LONG
B604	864	9'-5"	X	CORNER BARS
B405	216	4'-2"		WALL VERT. I.F.
B406	216	2'-6"		WALL DOWEL VERT. I.F.
B407	40	26'-8"		WALL LONG.
B308	24	3'-0"	X	INLET HEADERS TIES
B309	24	3'-3"	X	OUTLET HEADERS TIES
B410	4	17'-6"		HEADERS LONGITUDINAL
B511	132	4'-0"		CONST. JT. DOWEL

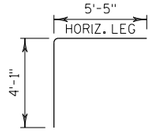
ALL BARS IN BARREL ARE UNCOATED



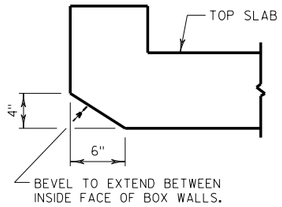
B308



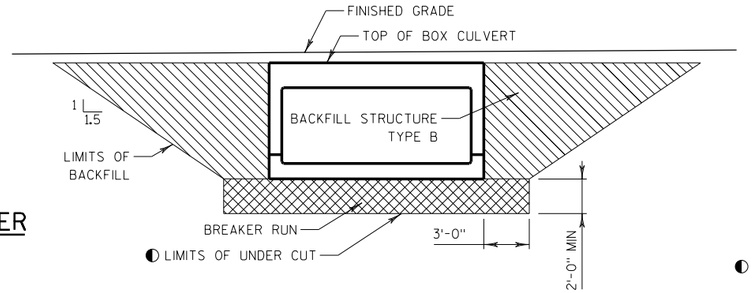
B309



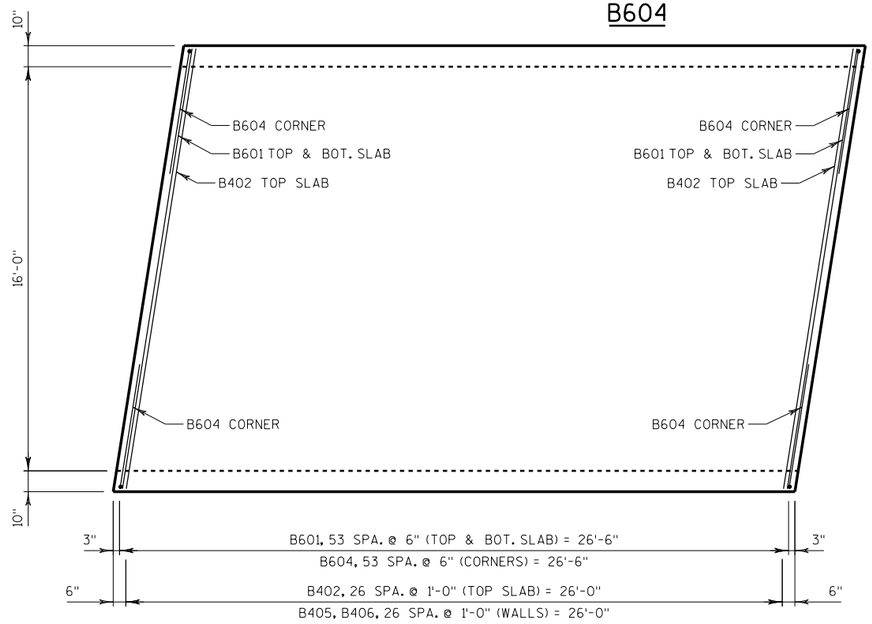
B604



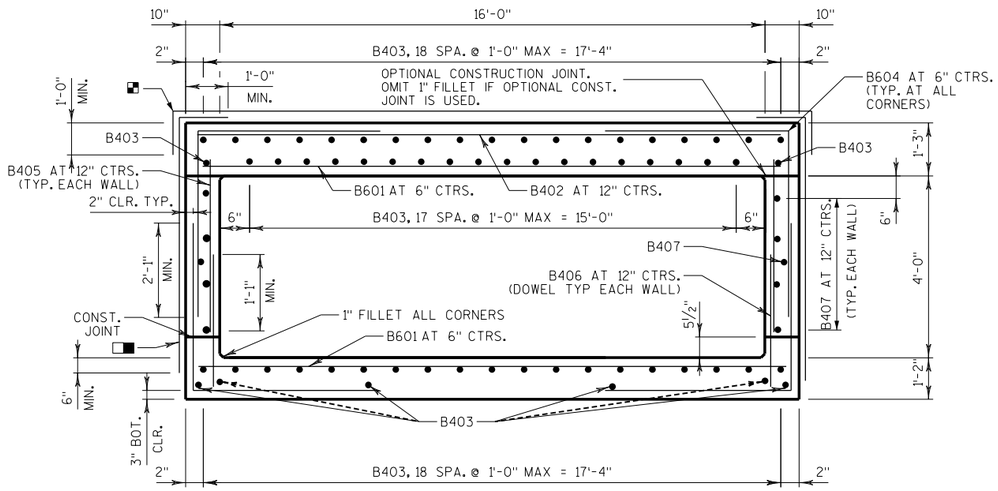
SECTION THRU INLET HEADER



TYPICAL SECTION THRU BOX CULVERT



PLAN VIEW OF TYPICAL PANEL



SECTION THRU BOX

■ 18" MIN. WIDTH RUBBERIZED MEMBRANE WATERPROOFING (R.M.W.) UP WALLS AND ACROSS TOP OF SLAB 1'-0" MIN. PAST EDGE OF TOP SLAB AT VERTICAL CONSTRUCTION JOINTS. EXTEND R.M.W. 6" MIN. BELOW THE TOP OF THE BOTTOM SLAB. INCLUDED IN BID ITEM "RUBBERIZED MEMBRANE WATERPROOFING".

▪ PLACE MEMBRANE WATERPROOFING ON TOP OF TOP SLAB OF CULVERT AS SHOWN. WORK TO BE INCLUDED IN BID ITEM "SHEET MEMBRANE WATERPROOFING FOR TOP SLAB C-58-31".

NOTES

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES CULVERTS C-58-31" SHALL BE THE EXISTING GROUNDLINE.

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE B" REQUIRED ON THE BOX SIDES AND BEHIND APRON WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES.

◐ UNDERCUT 2'-0" MINIMUM. EXCAVATION FOR UNDER CUT TO BE INCLUDED IN EXCAVATION FOR STRUCTURES. FIELD ENGINEER TO DETERMINE IF ADDITIONAL EXCAVATION IS NEEDED BASED ON FIELD CONDITIONS. PLACE GEOTEXTILE TYPE 'C', AND BACKFILL WITH 'BREAKER RUN'. EXTEND 3'-0" BEYOND THE FOOTPRINT OF THE CULVERT.

IN LIEU OF USING BREAKER RUN FOR THE BOX CONSTRUCTION PLATFORM, THE CONTRACTOR MAY ELECT TO SUBSTITUTE #1 OR #2 CONCRETE COARSE AGGREGATE, SELECT CRUSHED MATERIAL OR OTHER GRANULAR MATERIAL AS APPROVED BY THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR BASE STABILITY WITH ANY SUBSTITUTED MATERIAL. THE REGION GEOTECHNICAL ENGINEER MAY BE CONTACTED TO DETERMINE IF "OTHER GRANULAR MATERIAL" IS ACCEPTABLE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-58-31

DRAWN BY AJC | PLANS CK'D. MDR

BOX CULVERT DETAILS

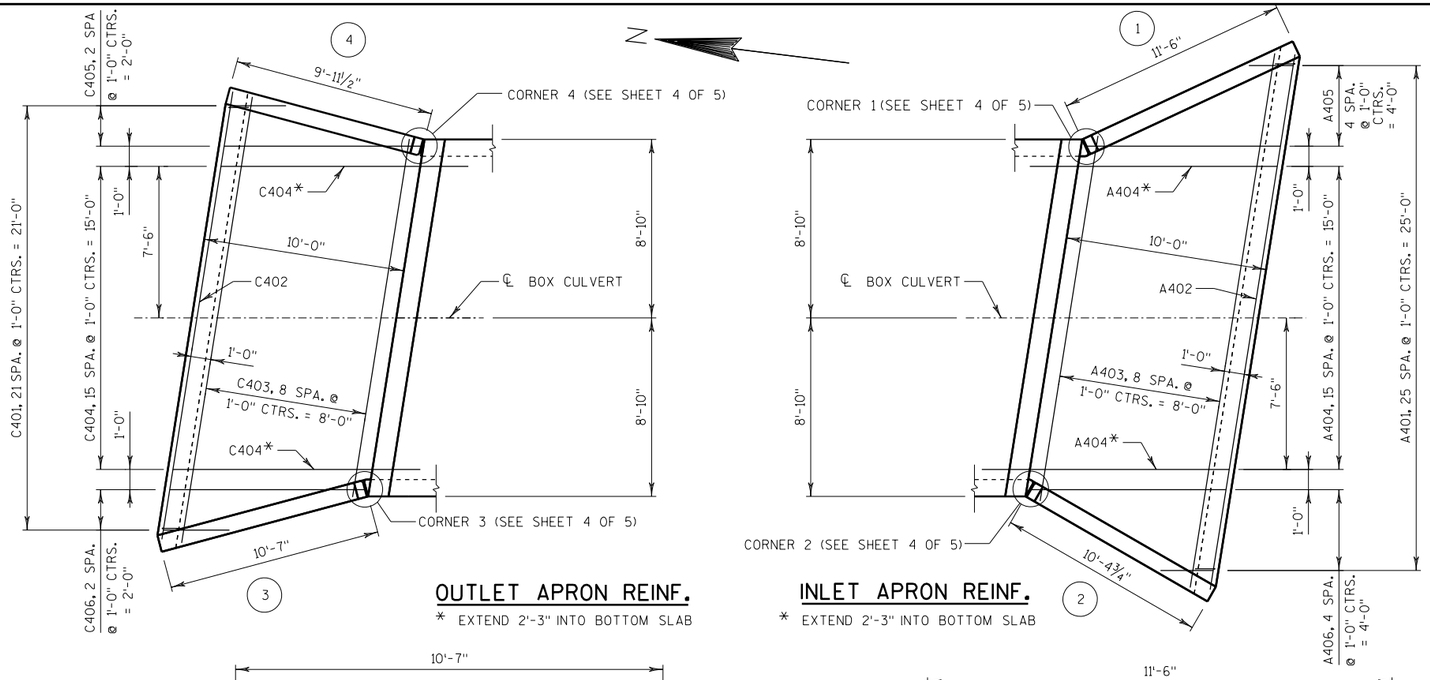
SHEET 2 OF 5
345

8

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STATE PROJECT NUMBER

9180-23-71

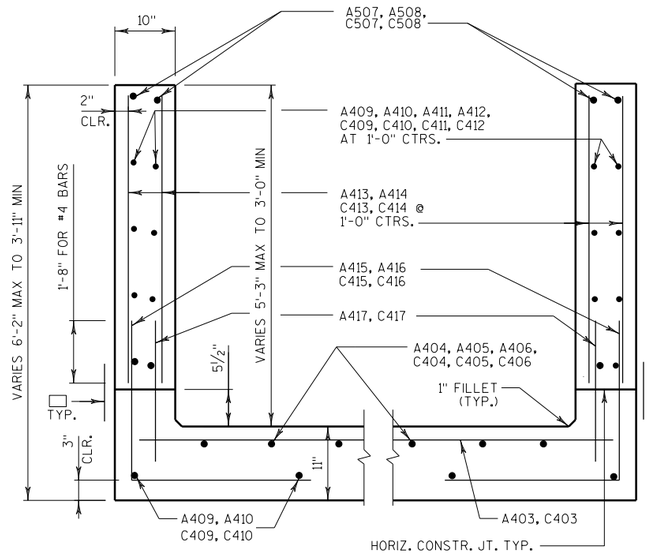


OUTLET APRON REINF.

* EXTEND 2'-3" INTO BOTTOM SLAB

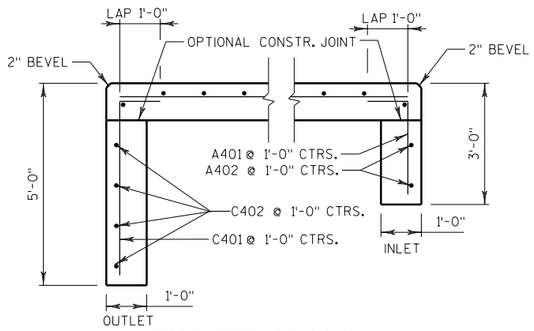
INLET APRON REINF.

* EXTEND 2'-3" INTO BOTTOM SLAB



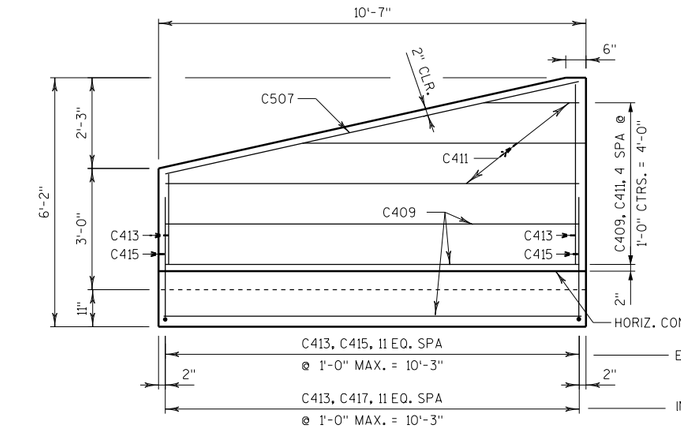
SECTION THRU WINGWALLS

☐ 18" MIN. WIDTH RUBBERIZED MEMBRANE WATERPROOFING ALONG HORIZ. CONSTR. JT. IN WING. (TYP.)



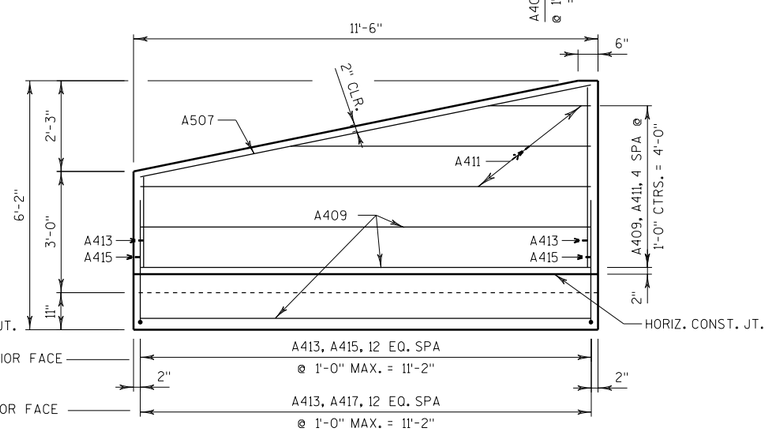
CUT-OFF WALLS

SECTION THRU WALLS



WING 3

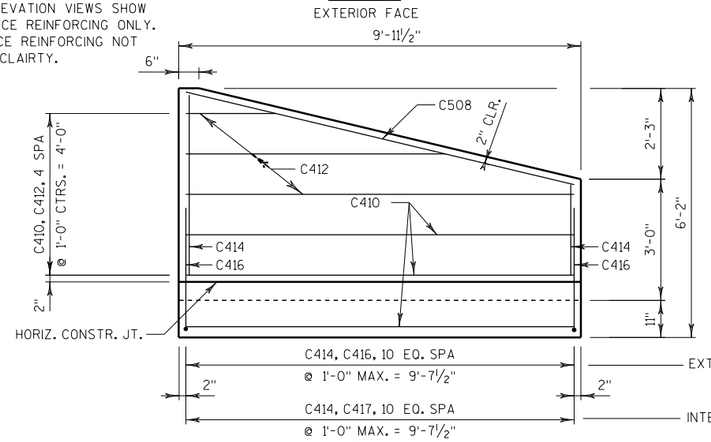
EXTERIOR FACE



WING 1

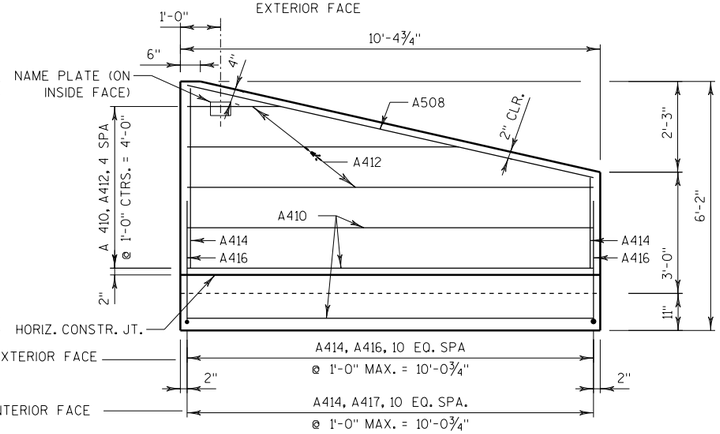
EXTERIOR FACE

NOTE:
ALL WING ELEVATION VIEWS SHOW EXTERIOR FACE REINFORCING ONLY. INTERIOR FACE REINFORCING NOT SHOWN FOR CLAIRTY.



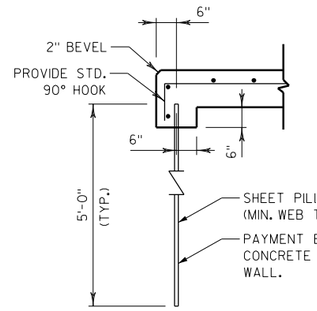
WING 4

EXTERIOR FACE



WING 2

EXTERIOR FACE



ALTERNATE CUT-OFF WALL

THE ABOVE ALT. MAY BE USED IN LIEU OF THE CAST-IN-PLACE CONC. CUT-OFF WALLS. PAYMENT WILL BE BASED ON THE CONC. CUT-OFF WALLS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-58-31

DRAWN BY AJC | PLANS CK'D. MDR

APRON DETAILS

SHEET 3 OF 5
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STATE PROJECT NUMBER

9180-23-71

BILL OF BARS FOR INLET APRON

BAR MARK	NO. REQ'D	LENGTH	COAT	BENT	BAR SERIES	LOCATION
A401	26	3'-6"		X		INLET CUTOFF WALL VERT.
A402	3	26'-10"				INLET CUTOFF WALL HORIZ.
A403	9	22'-6"			X	INLET APRON TRANSVERSE
A404	16	12'-3"				INLET APRON LONG.
A405	5	5'-11"			X	INLET APRON LONG. AT WING 1
A406	5	6'-1"			X	INLET APRON LONG. AT WING 2
A507	2	11'-4"	X			INLET WING 1 TOP DIAG.
A508	2	10'-3"	X			INLET WING 2 TOP DIAG.
A409	6	11'-2"	X			INLET WING 1 HORIZ. BOT. BOTH FACES
A410	6	10'-0"	X			INLET WING 2 HORIZ. BOT. BOTH FACES
A411	6	6'-9"	X		X	INLET WING 1 HORIZ. TOP BOTH FACES
A412	6	6'-2"	X		X	INLET WING 2 HORIZ. TOP BOTH FACES
A413	26	3'-4"	X		X	INLET WING 1 VERT. BOTH FACES
A414	22	3'-4"	X		X	INLET WING 2 VERT. BOTH FACES
A415	13	7'-11"	X	X		INLET WING 1 CORNER BAR
A416	11	7'-11"	X	X		INLET WING 2 CORNER BAR
A417	24	2'-10"	X			INLET WING 1 & 2 I.F. DOWEL

FOR BAR SERIES SEE BAR SERIES TABLE FOR ACTUAL LENGTHS. LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD BE USED FOR BAR WEIGHT CALCULATIONS.

BAR SERIES TABLE

BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
A403	1 SERIES OF 9	18'-3" TO 26'-9"
A405	1 SERIES OF 5	2'-2" TO 9'-8"
A406	1 SERIES OF 5	2'-6" TO 9'-8"
A411	2 SERIES OF 3	2'-6" TO 11'-0"
A412	2 SERIES OF 3	2'-4" TO 10'-0"
A413	2 SERIES OF 13	2'-3" TO 4'-5"
A414	2 SERIES OF 11	2'-3" TO 4'-5"

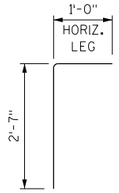
BILL OF BARS FOR OUTLET APRON

BAR MARK	NO. REQ'D	LENGTH	COAT	BENT	BAR SERIES	LOCATION
C401	22	5'-6"		X		OUTLET CUTOFF WALL VERT.
C402	5	22'-5"				OUTLET CUTOFF WALL HORIZ.
C403	9	20'-1"			X	OUTLET APRON TRANSVERSE
C404	16	12'-3"				OUTLET APRON LONG.
C405	3	6'-2"			X	OUTLET APRON LONG. WING 4
C406	3	6'-5"			X	OUTLET APRON LONG. WING 3
C507	2	10'-5"	X			OUTLET WING 3 TOP DIAG.
C508	2	9'-10"	X			OUTLET WING 4 TOP DIAG.
C409	6	10'-3"	X			OUTLET WING 3 HORIZ. BOT. BOTH FACES
C410	6	9'-7"	X			OUTLET WING 4 HORIZ. BOT. BOTH FACES
C411	6	6'-3"	X		X	OUTLET WING 3 HORIZ. TOP BOTH FACES
C412	6	5'-11"	X		X	OUTLET WING 4 HORIZ. TOP BOTH FACES
C413	24	3'-4"	X		X	OUTLET WING 3 VERT. BOTH FACES
C414	22	3'-4"	X		X	OUTLET WING 4 VERT. BOTH FACES
C415	12	7'-11"	X	X		OUTLET WING 3 CORNER BAR
C416	11	7'-11"	X	X		OUTLET WING 4 CORNER BAR
C417	23	2'-10"	X			OUTLET WING 3 & 4 I.F. DOWEL

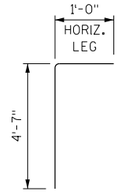
FOR BAR SERIES SEE BAR SERIES TABLE FOR ACTUAL LENGTHS. LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD BE USED FOR BAR WEIGHT CALCULATIONS.

BAR SERIES TABLE

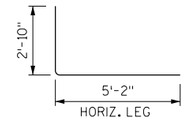
BAR MARK	NO. REQ'D.	LENGTHS FOR EACH SERIES
C403	1 SERIES OF 9	17'-10" TO 22'-4"
C405	1 SERIES OF 3	2'-8" TO 9'-8"
C406	1 SERIES OF 3	3'-2" TO 9'-8"
C411	2 SERIES OF 3	2'-3" TO 10'-3"
C412	2 SERIES OF 3	2'-3" TO 9'-7"
C413	2 SERIES OF 12	2'-3" TO 4'-5"
C414	2 SERIES OF 11	2'-3" TO 4'-5"



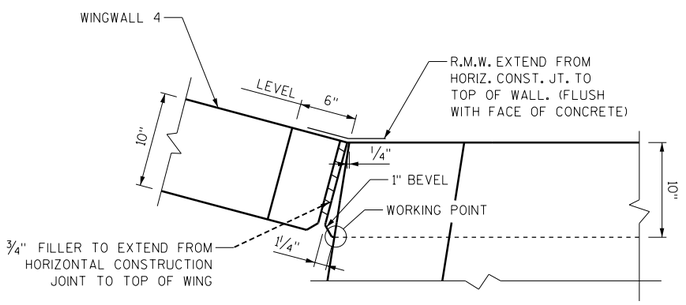
A401



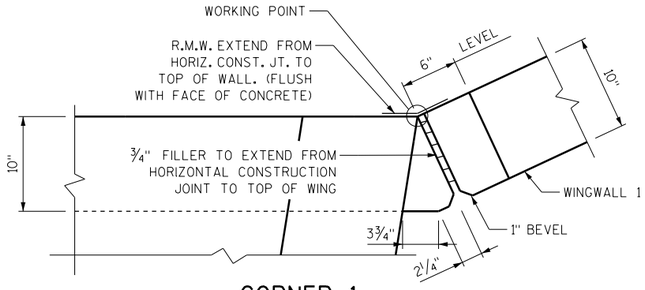
C401



A415, A416, C415, C416

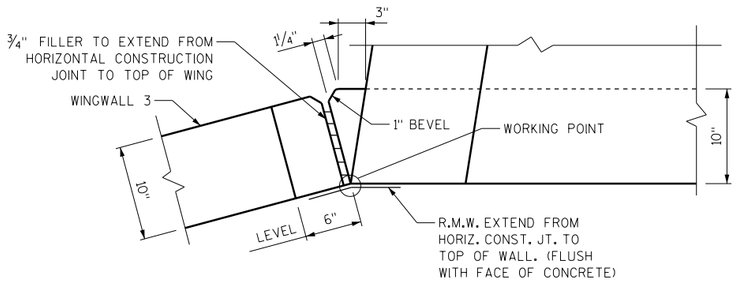


CORNER 4

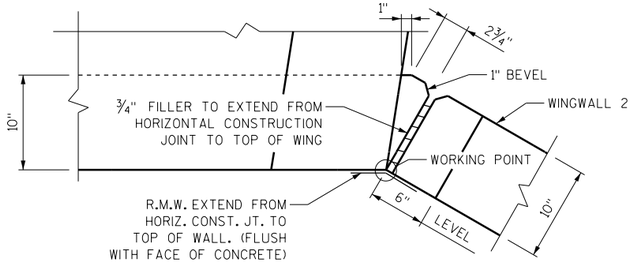


CORNER 1

N



CORNER 3



CORNER 2

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-58-31

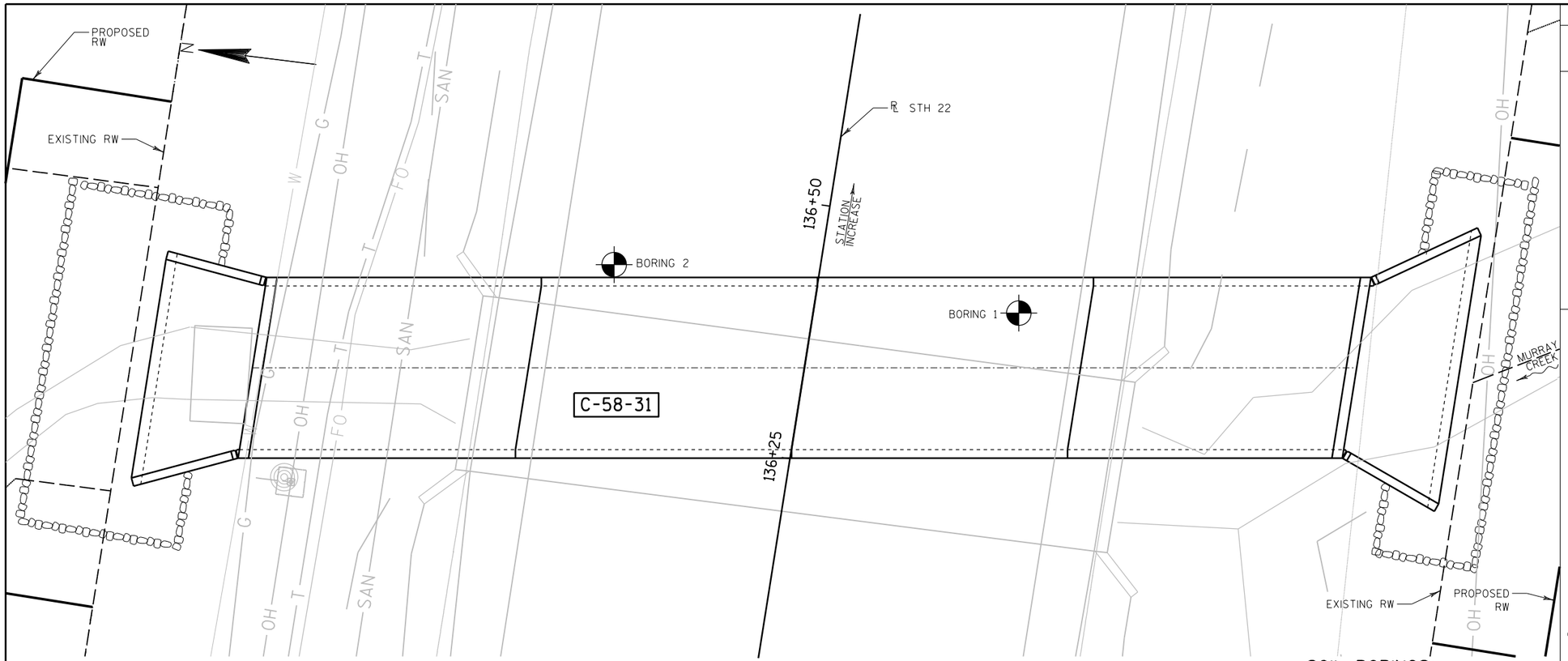
DRAWN BY AJC | PLANS CK'D. MDR

APRON DETAILS 2

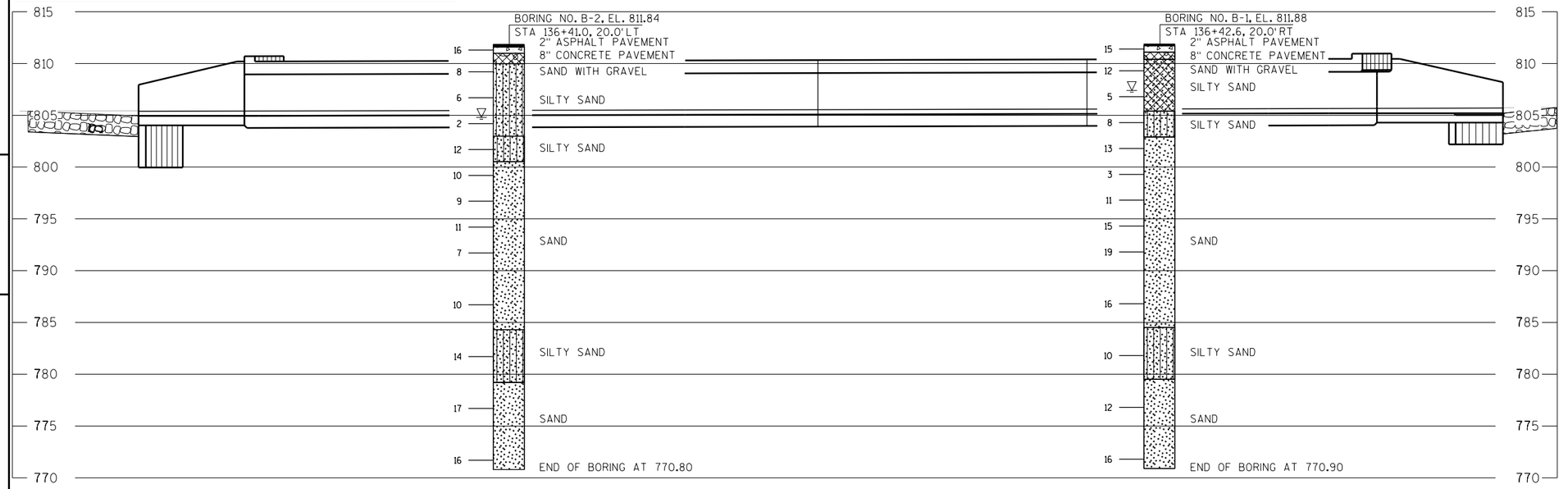
SHEET 4 OF 5
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BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
B-1	6-14-2016	271845.30	873576.06
B-2	6-14-2016	271885.17	873575.87
BORINGS COMPLETED BY: GESTRA ENGINEERING, INC.			
REPORT COMPLETED BY: GESTRA ENGINEERING, INC.			
ALL COORDINATES REFERENCED TO WCCS NAD 83(2011) SHAWANO COUNTY			



SOIL BORINGS:

BORING STATIONS AND OFFSETS ARE BASED ON ℄ STH 22

DENOTES SOIL BORING LOCATION

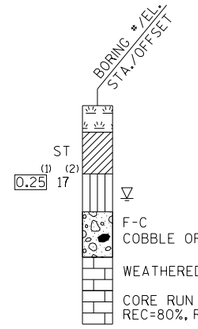
STATE PROJECT NUMBER

9180-23-71

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE C-58-31

DRAWN BY SMK | PLANS CK'D. MDR

SUBSURFACE EXPLORATION

SHEET 5 OF 5

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8

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FILE NAME : P:\49xx\4901-4902.DP.15.STH22.SHA\09 STRUCTURES\C-58-31\Plan\080105_se.dgn

PLOT DATE : 8/21/2018

PLOT BY : mdr

STH 22 RAILROAD CROSSING

STATION	DISTANCE	AREA SF		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		MASS ORDINATE
		CUT	FILL	CUT NOTE 1	FILL NOTE 2	CUT 1.00 NOTE 1	EXPANDED FILL 1.25 NOTE 3	NOTE 4
22+10	0	92	0	0	0	0	0	0
22+50	40	81	0	129	0	129	0	129
23+00	50	51	7	123	7	252	9	243
23+50	50	29	16	75	22	327	37	290
23+71	21	33	14	25	12	352	52	300
24+00	29	45	9	42	13	394	68	326
24+29	29	68	5	61	8	455	78	377
24+45	16	88	7	47	4	502	83	419
24+50	5	87	6	17	2	519	85	434
24+56	6	89	10	20	2	539	88	451
24+74	18	70	9	53	7	592	97	495
24+80	6	61	12	15	3	607	100	507
25+00	20	56	7	44	8	651	110	541
25+08	8	54	7	17	3	668	114	554
25+30	22	57	4	46	5	714	120	594
25+47	17	61	2	38	2	752	123	629
25+50	3	61	1	7	1	759	124	635
25+57	7	63	1	17	1	776	125	651
25+79	22	69	3	54	2	830	128	702
26+00	21	76	2	57	2	887	130	757
26+35	35	86	1	105	2	992	133	859
26+40	5	86	1	16	1	1,008	134	874
		COLUMN TOTALS		1,008	107			

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL. SALVAGED UNUSABLE PAVEMENT MATERIAL IS CALCULATED ON THE SUMMARY SHEET
2 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME, SALVAGED UNUSABLE PAVEMENT MATERIAL IS CALCULATED ON THE SUMMARY SHEET
3 - EXPANDED FILL	(UNEXPANDED FILL) * (FILL FACTOR)
4 - MASS ORDINATE	CUT - (EXPANDED FILL); PLUS INDICATES AN EXCESS OF MATERIAL

9

9

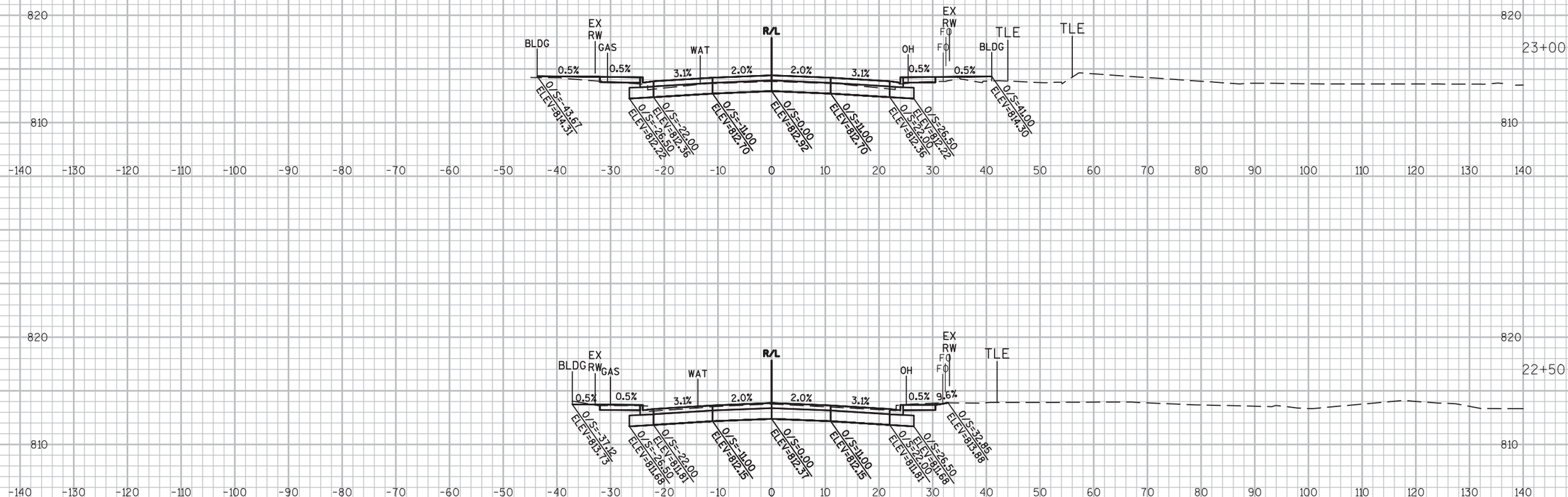
STH 22 STRUCTURE C-58-0031 STAGE MC2 (LT)

STATION	DISTANCE	AREA SF		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		MASS ORDINATE
		CUT	FILL	CUT NOTE 1	FILL NOTE 2	CUT 1.00 NOTE 1	EXPANDED FILL 1.25 NOTE 3	NOTE 4
134+00	0	0	0	0	0	0	0	0
134+50	50	0	0	0	0	0	0	0
135+00	50	14	0	13	0	13	0	13
135+50	50	11	1	24	1	37	2	35
135+70	20	10	2	8	2	45	4	41
135+70	0	59	2	0	0	45	4	41
136+00	30	57	12	65	8	110	14	96
136+34	34	77	57	85	44	195	69	126
136+50	16	78	20	46	23	241	98	143
136+70	20	94	10	64	12	305	113	192
136+70	0	43	10	0	0	305	113	192
137+00	30	51	2	53	7	358	122	236
137+50	50	52	4	96	6	454	129	325
138+00	50	60	3	104	7	558	138	420
138+50	50	55	6	107	9	665	149	516
138+75	25	65	0	56	3	721	153	568
139+00	25	0	0	31	0	752	153	599
139+50	50	0	0	0	0	752	153	599
139+75	25	0	0	0	0	752	153	599
		COLUMN TOTALS		752	122			

STH 22 STRUCTURE C-58-0031 STAGE MC3 (RT)

STATION	DISTANCE	AREA SF		INCREMENTAL VOL (CY) (UNADJUSTED)		CUMULATIVE VOL (CY)		MASS ORDINATE
		CUT	FILL	CUT NOTE 1	FILL NOTE 2	CUT 1.00 NOTE 1	EXPANDED FILL 1.25 NOTE 3	NOTE 4
134+00	0	23	1	0	1	0	2	-2
134+50	50	15	0	36	1	36	3	33
135+00	50	13	0	26	0	62	3	59
135+50	50	12	4	24	4	86	8	78
135+70	20	93	0	39	2	125	10	115
135+70	0	142	0	0	0	125	10	115
136+00	30	98	30	134	17	259	32	227
136+34	34	117	86	136	74	395	124	271
136+50	16	74	47	57	40	452	174	278
136+70	20	82	27	58	28	510	209	301
136+70	0	31	27	0	0	510	209	301
137+00	30	31	8	35	20	545	234	311
137+50	50	32	4	59	12	604	249	355
138+00	50	45	2	72	6	676	257	419
138+50	50	35	1	75	3	751	260	491
138+75	25	26	2	29	2	780	263	517
139+00	25	29	3	26	3	806	267	539
139+50	50	31	2	56	5	862	273	589
139+75	25	31	1	29	2	891	275	616
		COLUMN TOTALS		891	220			

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL. SALVAGED UNUSABLE PAVEMENT MATERIAL IS CALCULATED ON THE SUMMARY SHEET
2 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME, SALVAGED UNUSABLE PAVEMENT MATERIAL IS CALCULATED ON THE SUMMARY SHEET
3 - EXPANDED FILL	(UNEXPANDED FILL) * (FILL FACTOR)
4 - MASS ORDINATE	CUT - (EXPANDED FILL); PLUS INDICATES AN EXCESS OF MATERIAL



9

PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: RAILROAD CROSSING	SHEET 351	E

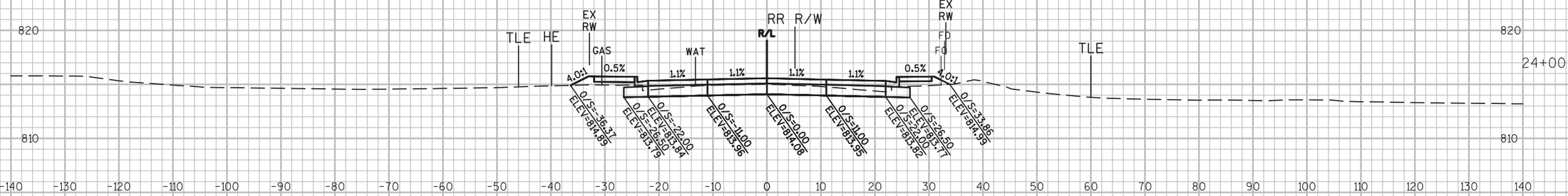
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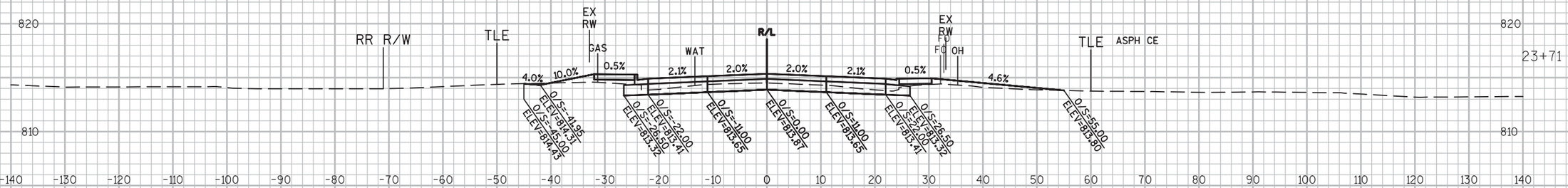
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LAYOUT NAME - 090201-XS

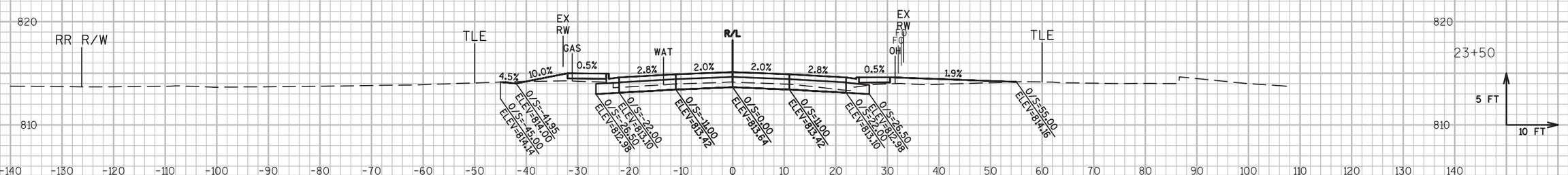
PLOT DATE : 8/29/2018 6:20 PM PLOT BY : SCOTT KAISER PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

NOTE
MATCH EXISTING GROUND IN FRONT OF SIGN BASE AT 34-FT RT.

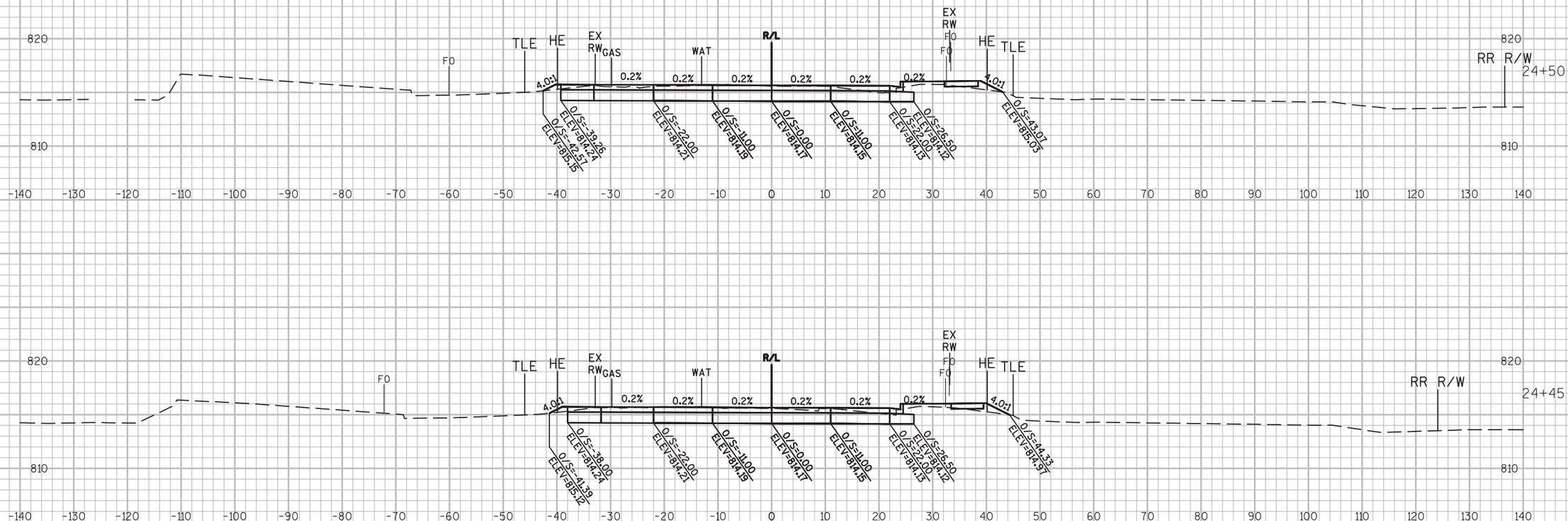






9 9

PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: RAILROAD CROSSING	SHEET 352	E



9

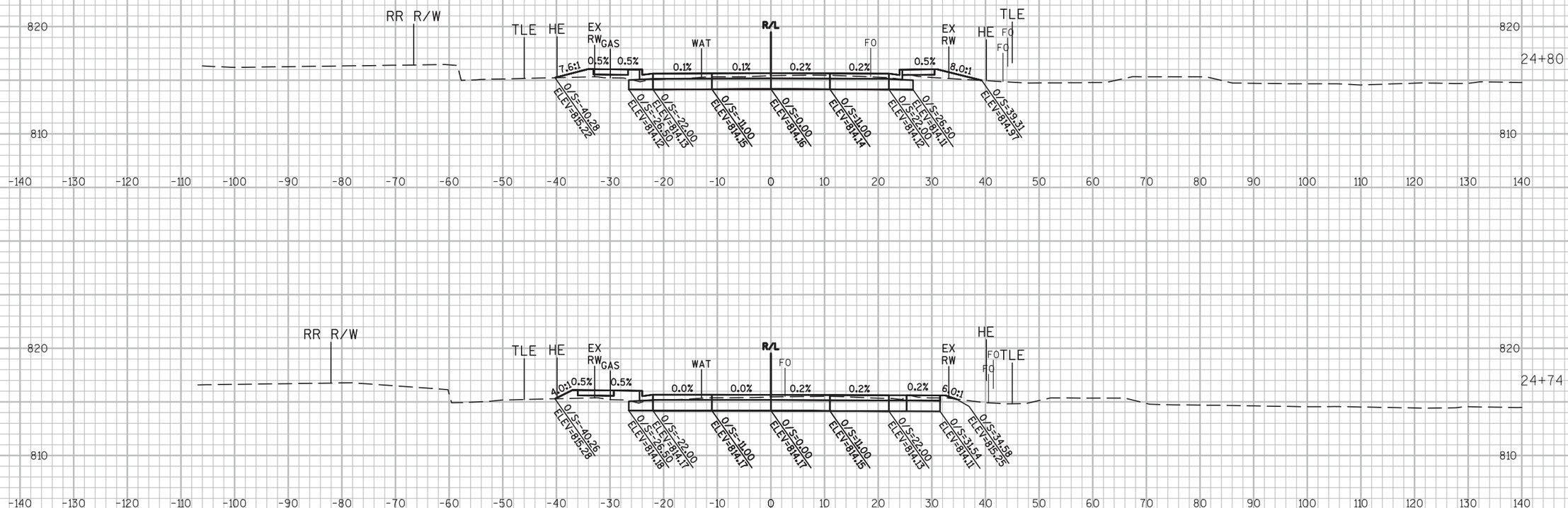
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PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: RAILROAD CROSSING	SHEET 353	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090203-XS

PLOT DATE : 8/29/2018 6:21 PM PLOT BY : SCOTT KAISER PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

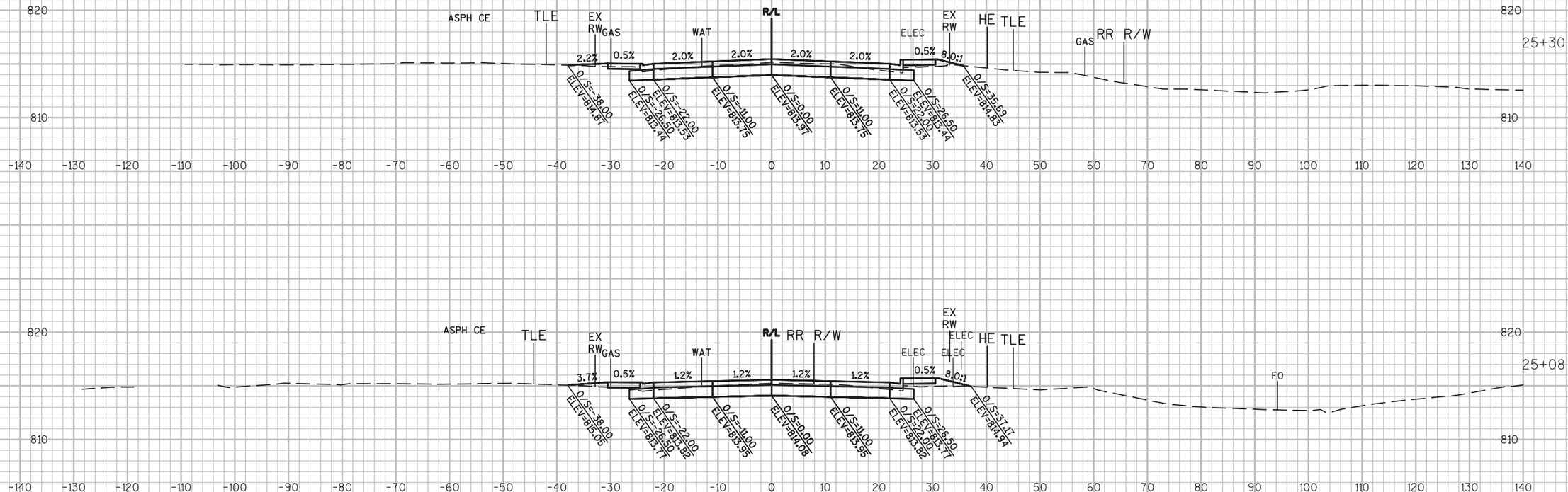
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PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: RAILROAD CROSSING	SHEET 354	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090204-XS

PLOT DATE : 8/29/2018 6:21 PM PLOT BY : SCOTT KAISER PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



9

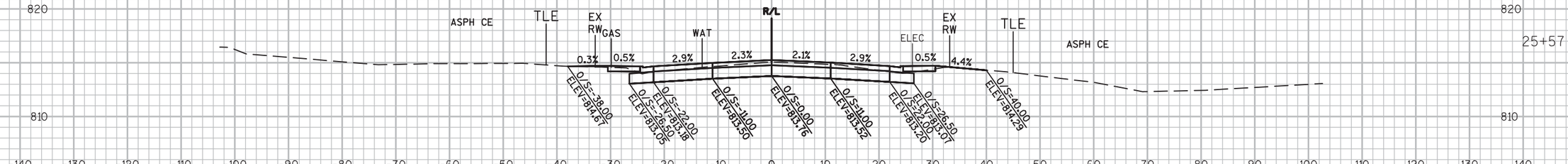
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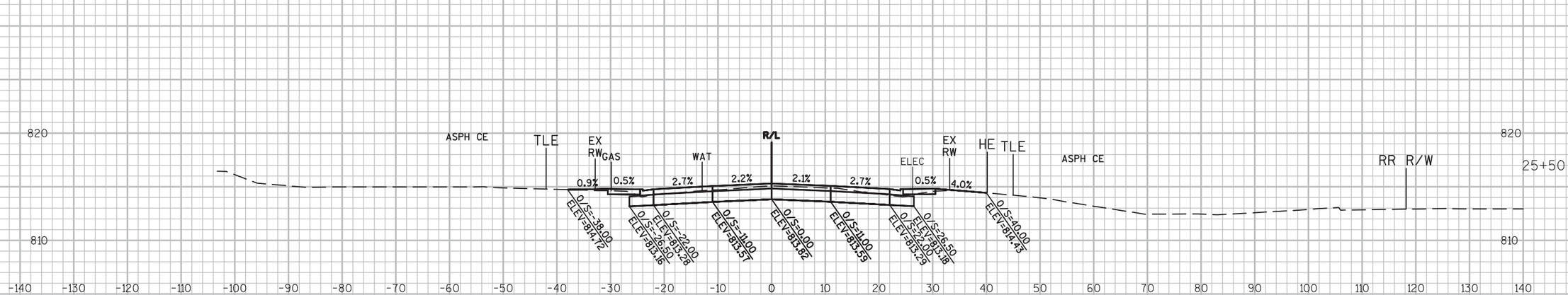
PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: RAILROAD CROSSING	SHEET 355	E

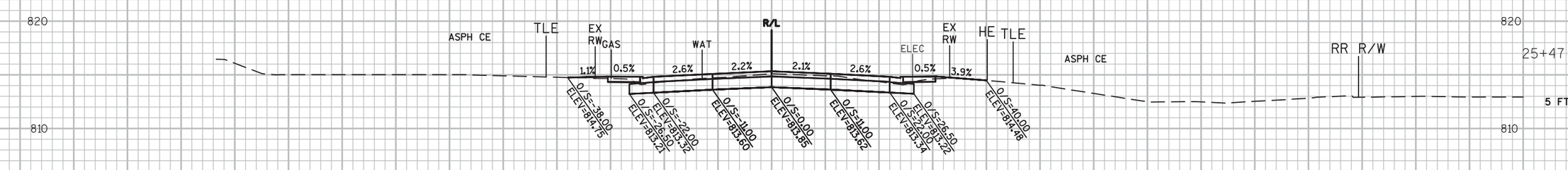
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LAYOUT NAME - 090205-XS

PLOT DATE : 8/29/2018 6:21 PM PLOT BY : SCOTT KAISER PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49







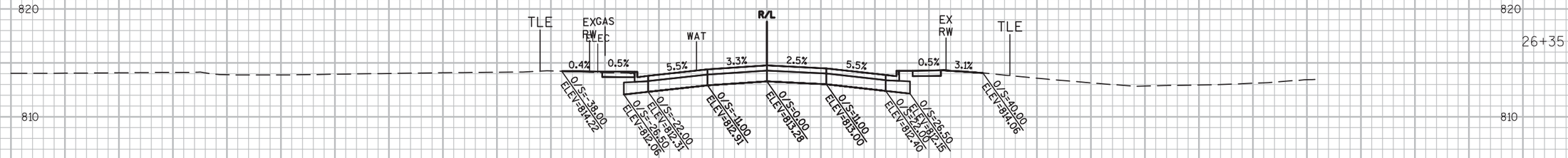
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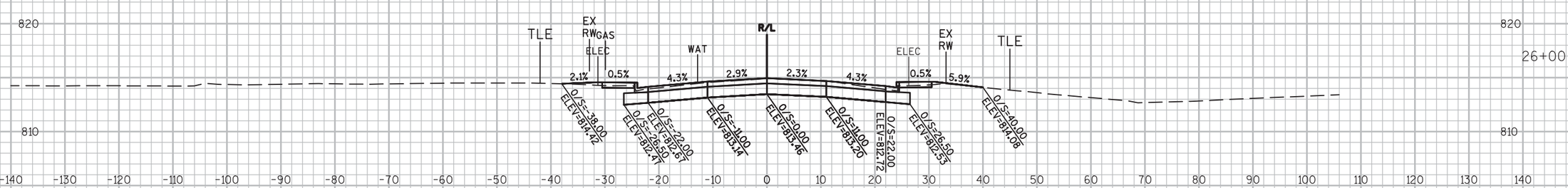
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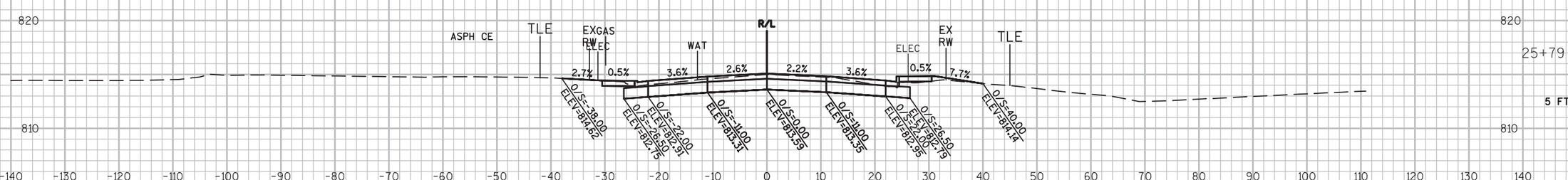
PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: RAILROAD CROSSING	SHEET 356	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090206-XS

PLOT DATE : 8/29/2018 6:21 PM PLOT BY : SCOTT KAISER PLOT NAME : PLOT SCALE : 1 IN:20 FT





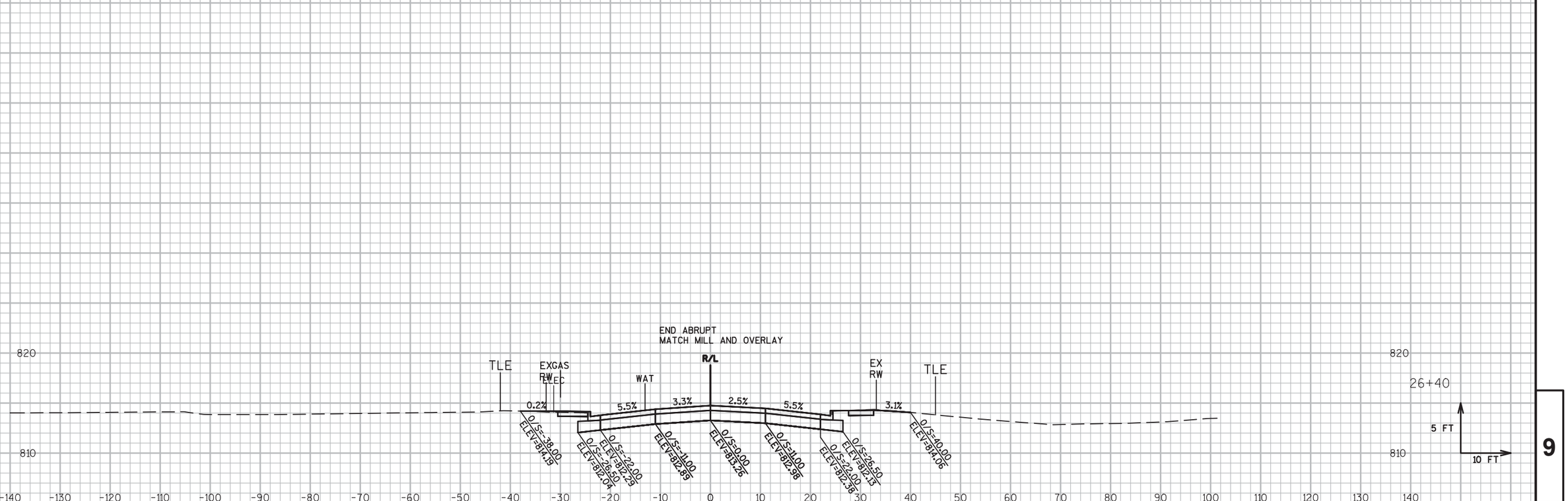


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PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: RAILROAD CROSSING	SHEET 357	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 090207-XS
PLOT DATE : 8/29/2018 6:21 PM PLOT BY : SCOTT KAISER PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



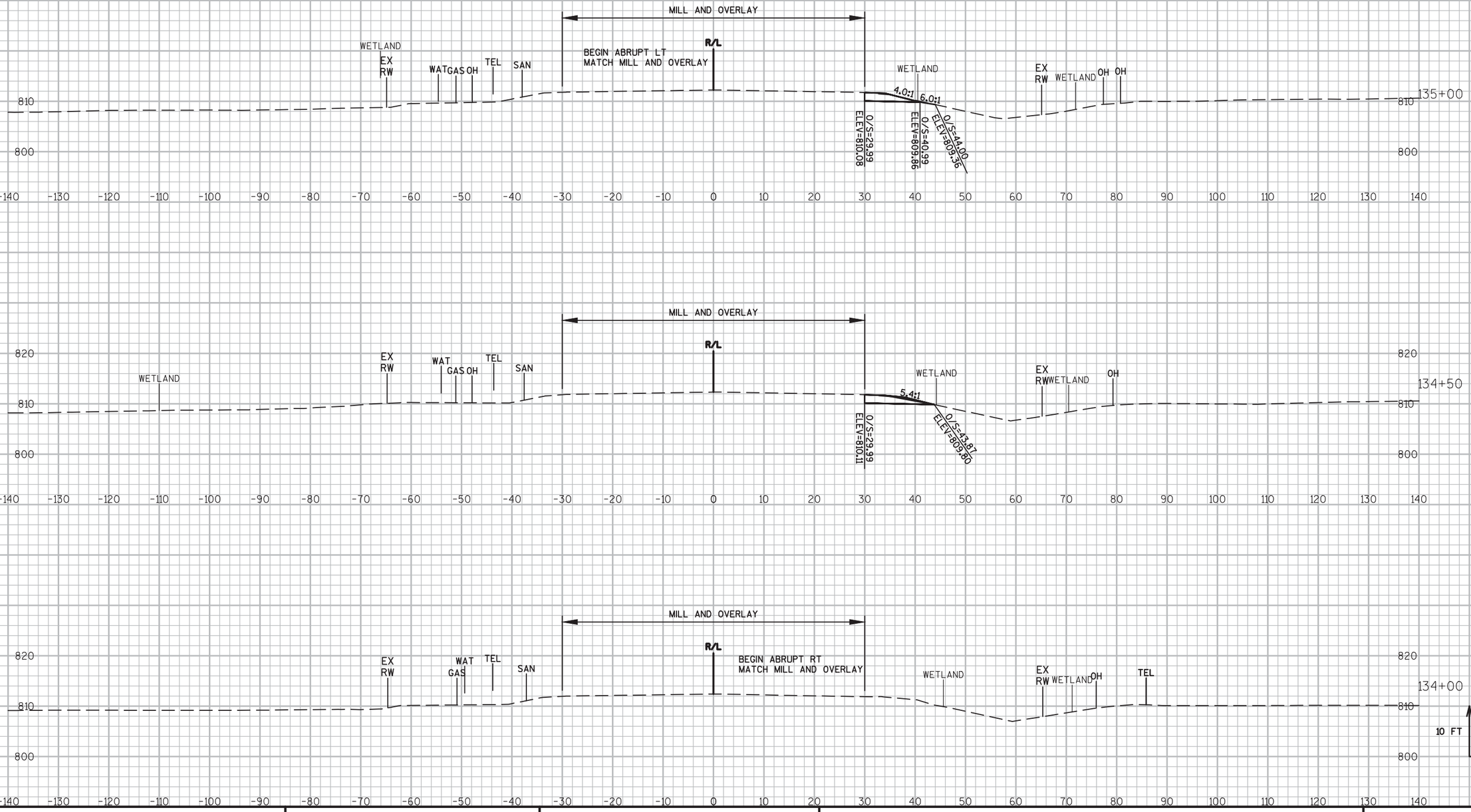
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PROJECT NO: 9180-23-72	HWY: STH 22	COUNTY: SHAWANO	CROSS SECTIONS: RAILROAD CROSSING	SHEET 358	E

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LAYOUT NAME - 090208-XS

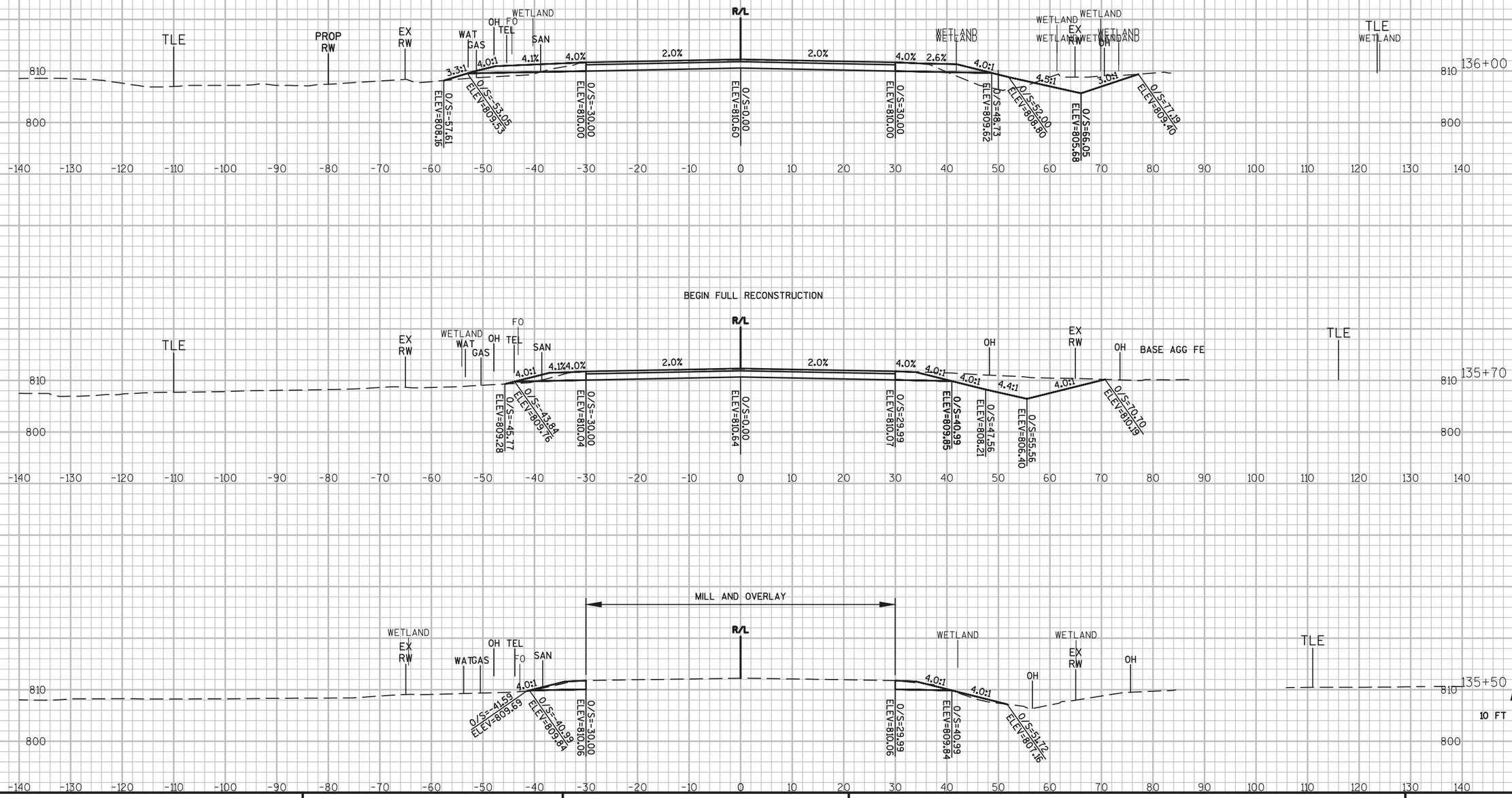
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PROJECT NO:9180-23-71	HWY:STH 22	COUNTY:SHAWANO	CROSS SECTIONS: BOX CULVERT C-58-31	SHEET 359	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\090202-XS.DWG PLOT DATE : 10/18/2018 2:36 PM PLOT BY : SCOTT KAISER PLOT NAME :

WISDOT/CADDS SHEET 49



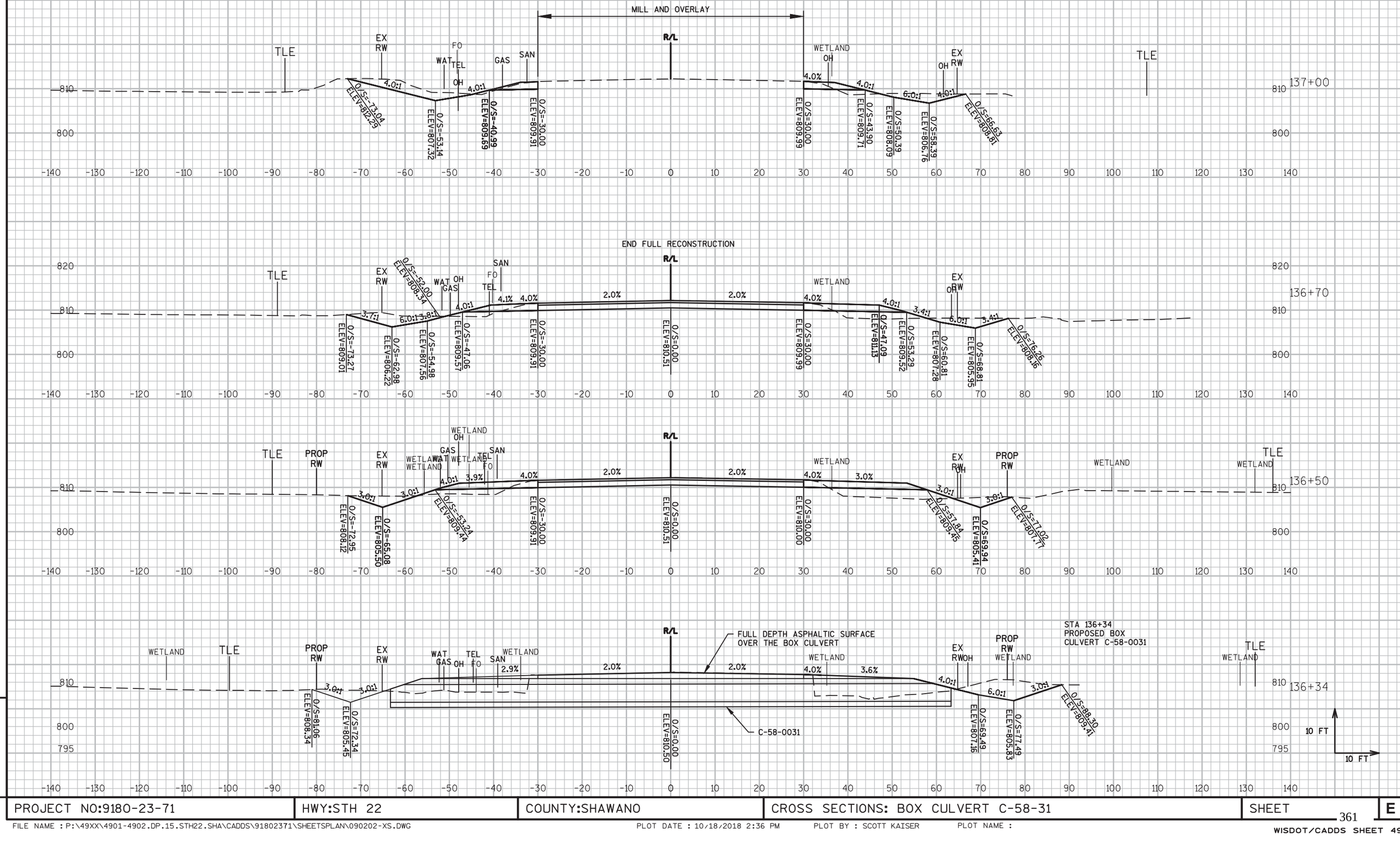
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PROJECT NO:9180-23-71	HWY:STH 22	COUNTY:SHAWANO	CROSS SECTIONS: BOX CULVERT C-58-31	SHEET 360	E

9

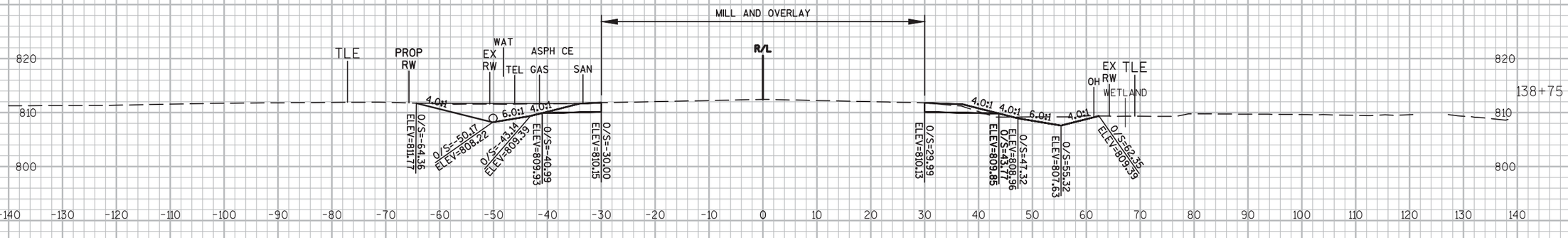
FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\090202-XS.DWG PLOT DATE : 10/18/2018 2:36 PM PLOT BY : SCOTT KAISER PLOT NAME :

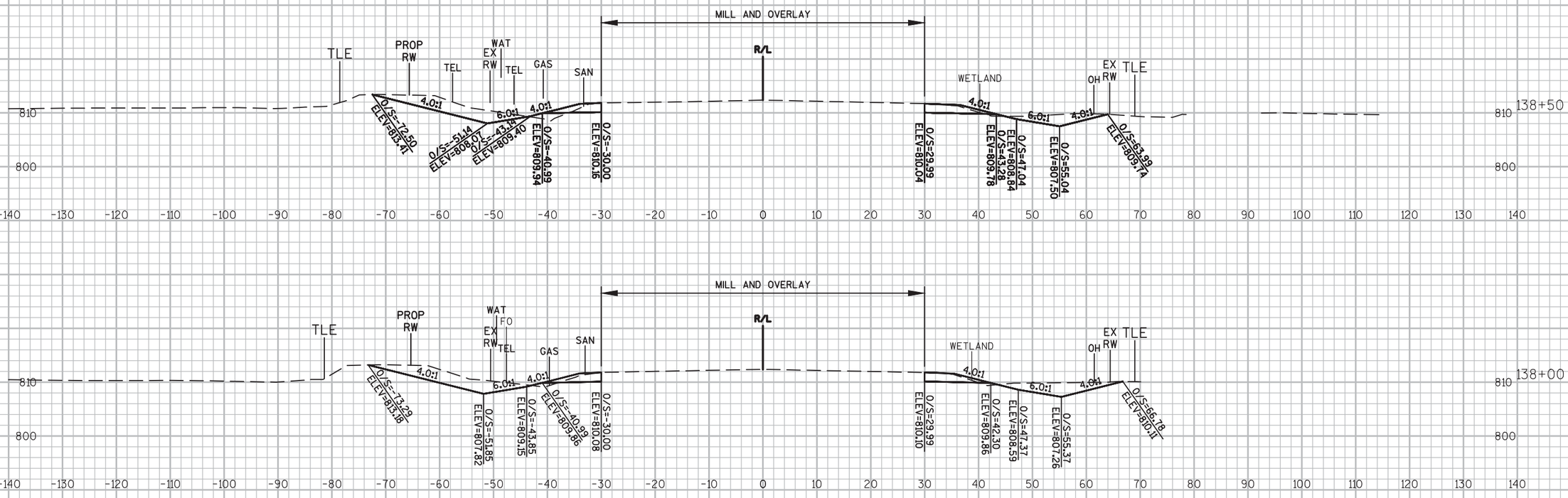
WISDOT/CADDS SHEET 49

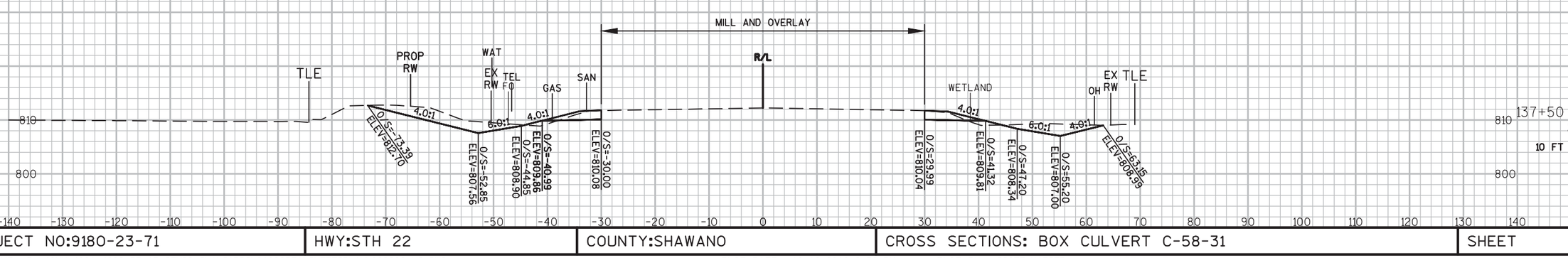


PROJECT NO:9180-23-71	HWY:STH 22	COUNTY:SHAWANO	CROSS SECTIONS: BOX CULVERT C-58-31	SHEET	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\090202-XS.DWG PLOT DATE : 10/18/2018 2:36 PM PLOT BY : SCOTT KAISER PLOT NAME :





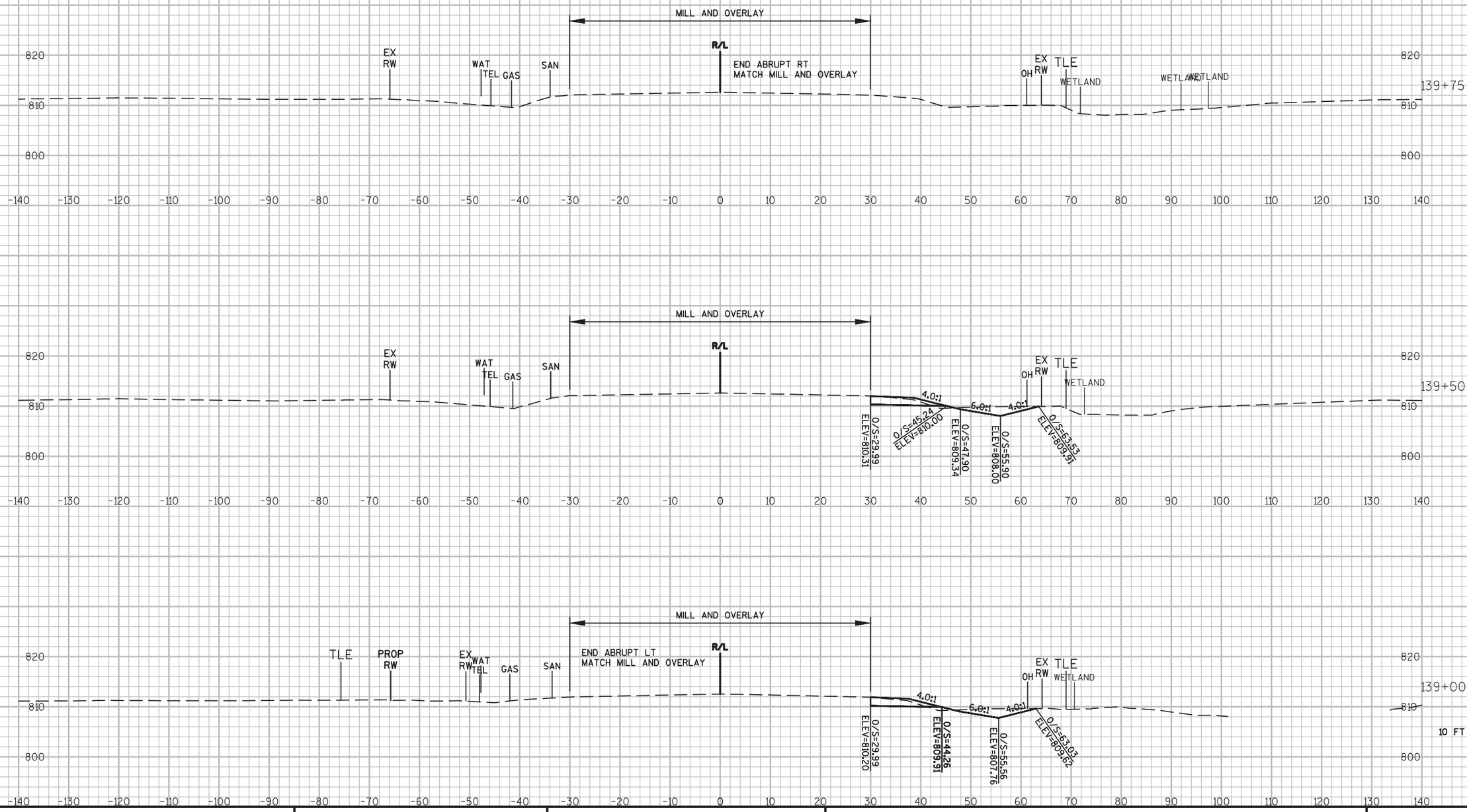


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PROJECT NO:9180-23-71	HWY:STH 22	COUNTY:SHAWANO	CROSS SECTIONS: BOX CULVERT C-58-31	SHEET 362	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\090202-XS.DWG PLOT DATE : 10/18/2018 2:36 PM PLOT BY : SCOTT KAISER PLOT NAME :



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PROJECT NO:9180-23-71	HWY:STH 22	COUNTY:SHAWANO	CROSS SECTIONS: BOX CULVERT C-58-31	SHEET	E

FILE NAME : P:\49XX\4901-4902.DP.15.STH22.SHA\CADDS\91802371\SHEETSPLAN\090202-XS.DWG PLOT DATE : 10/18/2018 2:36 PM PLOT BY : SCOTT KAISER PLOT NAME :

WISDOT/CADDS SHEET 49

Wisconsin Department of Transportation

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