ORDER OF SHEETS

Section No.

Section No.

Section No.

Section No.

Section No.

TOTAL SHEETS = 30

0

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

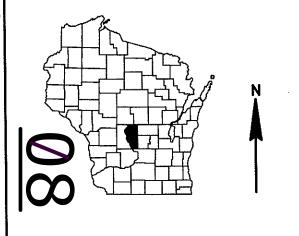
PLAN OF PROPOSED IMPROVEMENT

NECEDAH - COLOMA

WIS RIVER BRIDGE B-1-13

STH 21 ADAMS

STATE PROJECT NUMBER 6160-00-61



Typical Sections and Details Estimate of Quantities Miscellaneous Quantities

Standard Detail Drawings

Sign Plates

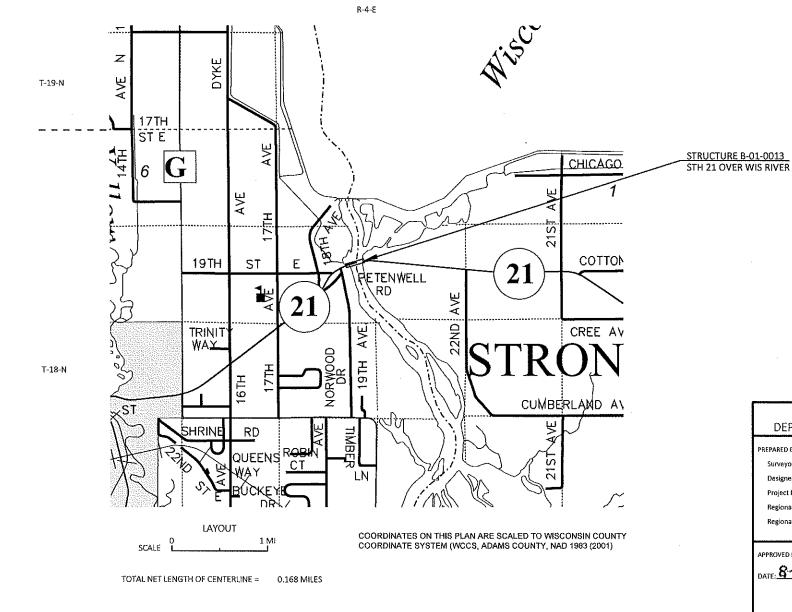
Structure Plans

DESIGN DESIGNATION

A.A.D.T.	2019	=	5200
A.A.D.T.	2029	=	5900
D.H.V.		==	
D.D.		=	60/40
T.		==	23.4%
DESIGN SPEED		=	60
ESALS		=	

CONVENTIONAL SYMBOLS

PLAN		PROFILE	
CORPORATE LIMITS	1//////	GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	ROCK
LIMITED HIGHWAY EASEMENT	<u> </u>	SPECIAL DITCH	LABEL
EXISTING RIGHT OF WAY		COADC ELEVATION	95.36
PROPOSED OR NEW R/W LINE		GRADE ELEVATION	
SLOPE INTERCEPT		CULVERT (Profile View)	≬ □
REFERENCE LINE	300'EB'	UTILITIES	
		ELECTRIC	—— E ——
EXISTING CULVERT		FIBER OPTIC	FO
PROPOSED CULVERT (Box or Pipe)		GAS	G
	MA	SANITARY SEWER	SAN
COMBUSTIBLE FLUIDS	-caution-	STORM SEWER	SS
	V4.	TELEPHONE	—— r ——
MARSH ARÉA	(111)	WATER	w
14 A A COLL A LELI		UTILITY PEDESTAL	Д
		POWER POLE	Ġ
WOODED OR SHRUB AREA	ξ ,	TELEPHONE POLE	ø



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT

CONTRACT

1

PROJECT

WISC 2020348

STATE PROJECT

6160-00-61

PREPARED BY PHILIP SAEGER TIMOTHY HANLEY CHERYLSIMON NICHOLE LYSNE

FILE NAME: N:\PDS\C3D\61600031\SHEETSPLAN\010101-TI.DWG

PLOT DATE: 5/8/2018 2:51 PM

SAEGER, PHILIP HENRY

2

2

GENERAL NOTES

THE LOCATION OF EXISTING AND PROPOSED UTILITY FACILITIES ARE NOT SHOWN ON THE PLANS. THERE MAY BE UTILITY FACILITIES WITHIN THE PROJECT AREA. NO CONFLICTS ARE ANTICIPATED.

THERE ARE NO KNOWN UTILITIES ON STRUCTURE B-01-0013.

CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY HIS OPERATION OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

WORK WITH UTMOST CARE AND PROTECT ALL SURVEY MARKERS.
REMOVAL OF ANY SURVEY MARKER IS TO BE WITH THE APPROVAL OF THE ENGINEER.

UTILITIES

FRONTIER COMMUNICATIONS OF WILLC -

COMMUNICATION LINE

RUSS RYAN 118 DIVISION STREET

PLYMOUTH, WI 53073 PHONE: (920) 583-3275 WORK

E-MAIL: RUSSELL.W.RYAN@FTR.COM

TDS TELECOM - COMMUNICATION LINE

JEFF SHAW

202 E OGDEN STREET MEDFORD, WI 54451

PHONE: (715) 748-6970 WORK

E-MAIL: JEFF.SHAW@TDSTELECOM.COM

ADAMS-COLUMBIA ELCTRIC COOPERATIVE -

ELECTRICITY

JOSH BERGER P.O. BOX 70

FRIENDSHIP, WI 53934

PHONE: (608) 547-1384 WORK E-MAIL: JBERGER@ACECWI.COM

ALLIANT ENERGY - ELECTRICITY

MARY MONTGOMERY

200 FIRST ST

CEDAR RAPIDS, IA 52401

PHONE: (319) 786-4768 WORK

E-MAIL: MARYMONTGOMERY@ALLIANTENERGY.COM

ATC MANAGEMENT, INC. - ELECTRICITY-TRANSMISSION

MIKE OLSEN 801 O'KEEFE RD P.O. BOX 6113

DE PERE, WI 54115-6113
PHONE: (920) 338-6582 WORK
E-MAIL: MOLSEN@ATCLLC.COM

ALLIANT ENERGY - GAS/PETROLEUM

MARY MONTGOMERY

200 FIRST ST

CEDAR RAPIDS, IA 52401 PHONE: (319) 786-4768 WORK

E-MAIL: MARYMONTGOMERY@ALLIANTENERGY.COM

Runoff Coefficient Table

	Hydrologic Soil Group											
	Α		В		С		D					
					Slop	e Rang	e (Per	cent)				
	0 - 2	2 - 6	6&	0 - 2	2 - 6	6&	0 - 2	2 - 6	6&	0 - 2	2 - 6	6&
Land Use	0-2	2-0	Over	0-2	2-0	Over	0-2	2-0	Over	0-2	2-0	Over
Row Crops	0.08	0.16	0.22	0.12	0.20	0.27	0.15	0.24	0.33	0.19	0.28	0.38
Now Crops	0.22	0.30	0.38	0.26	0.34	0.44	0.30	0.37	0.50	0.34	0.41	0.56
Median Strip-Turf	0.19	0.20	0.24	0.19	0.22	0.26	0.20	0.23	0.30	0.20	0.25	0.30
Median Strip-Turi	0.24	0.26	0.30	0.25	0.28	0.33	0.26	0.30	0.37	0.27	0.32	0.40
Side Slope Turf			0.25			0.27			0.28			0.30
Side Slope Tull			0.32			0.34			0.36			0.38
Pavement												
Asphalt	0.70 - 0.95											
Concrete	0.80 - 0.95											
Brick	0.70 - 0.80											
Drives, Sidewalks 0.75 - 0.85												
Roofs	Roofs 0.75 - 0.95											
Gravel Roads, Shoulders						0.40	- 0.60					

Total Project Area = 0.71 Acres

Total Area Expected To Be Disturbed By Construction Activities = 0.00 Acres

ENVIRONMENTAL CONTACTS

WI DEPT. OF NATURAL RESOURCES 473 GRIFFITH DRIVE WISCONSIN RAPIDS, WI 54494 ATTN: BRAD BETTHAUSER

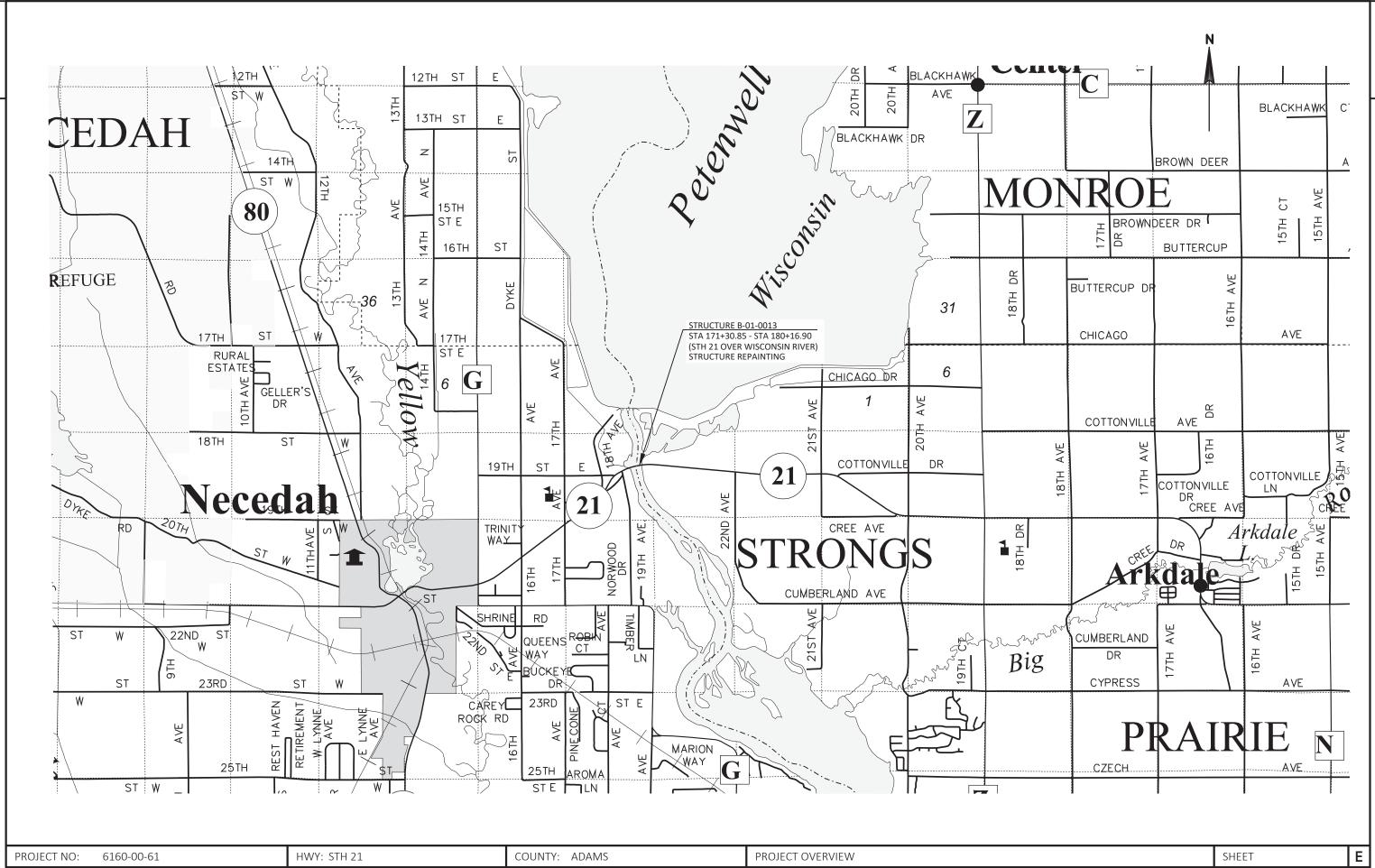
PHONE: (715) 421-7851

E-MAIL: Bradley.Betthauser@wisconsin.go

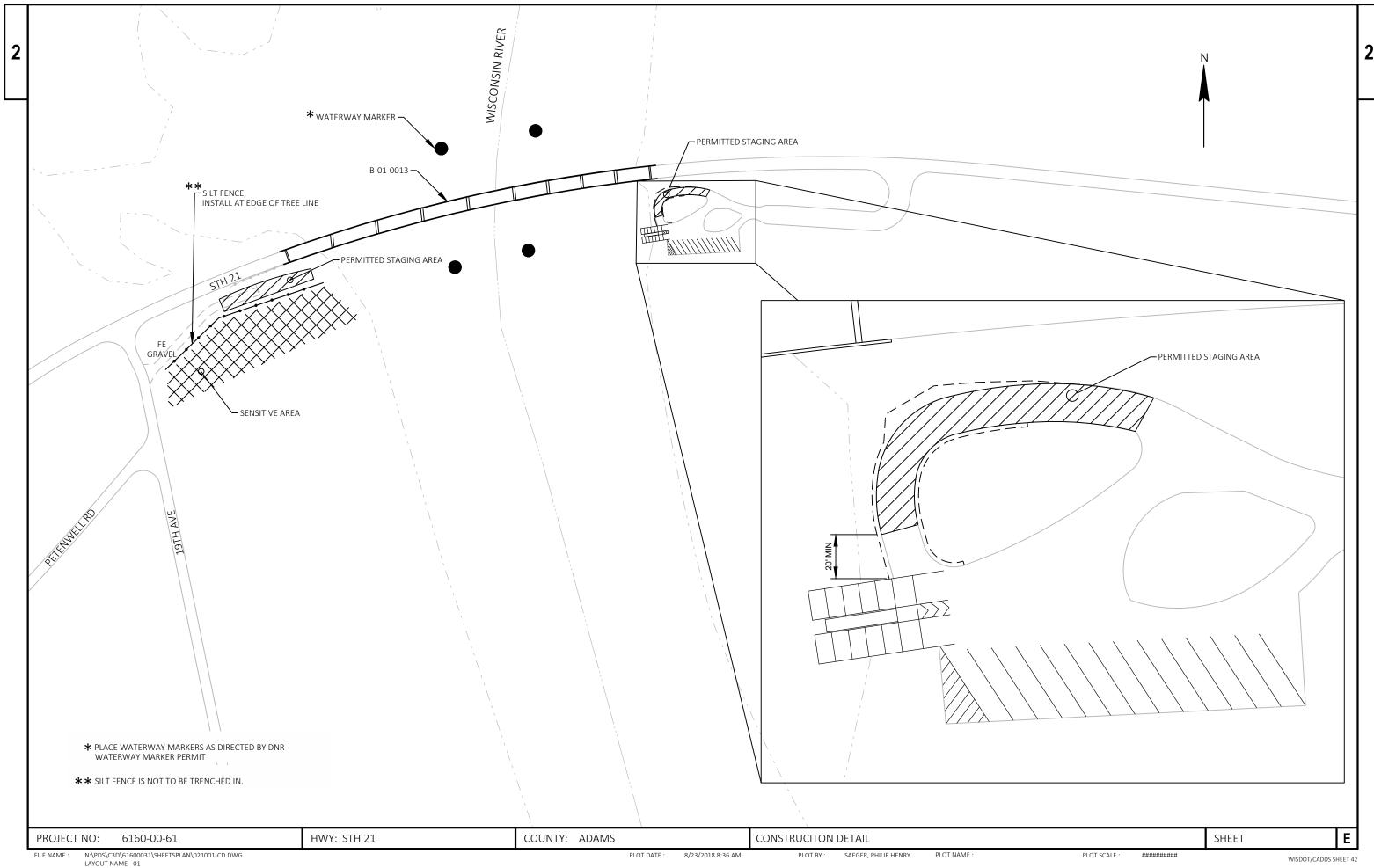
Dial or (800)242-8511
www.DiggersHotline.com

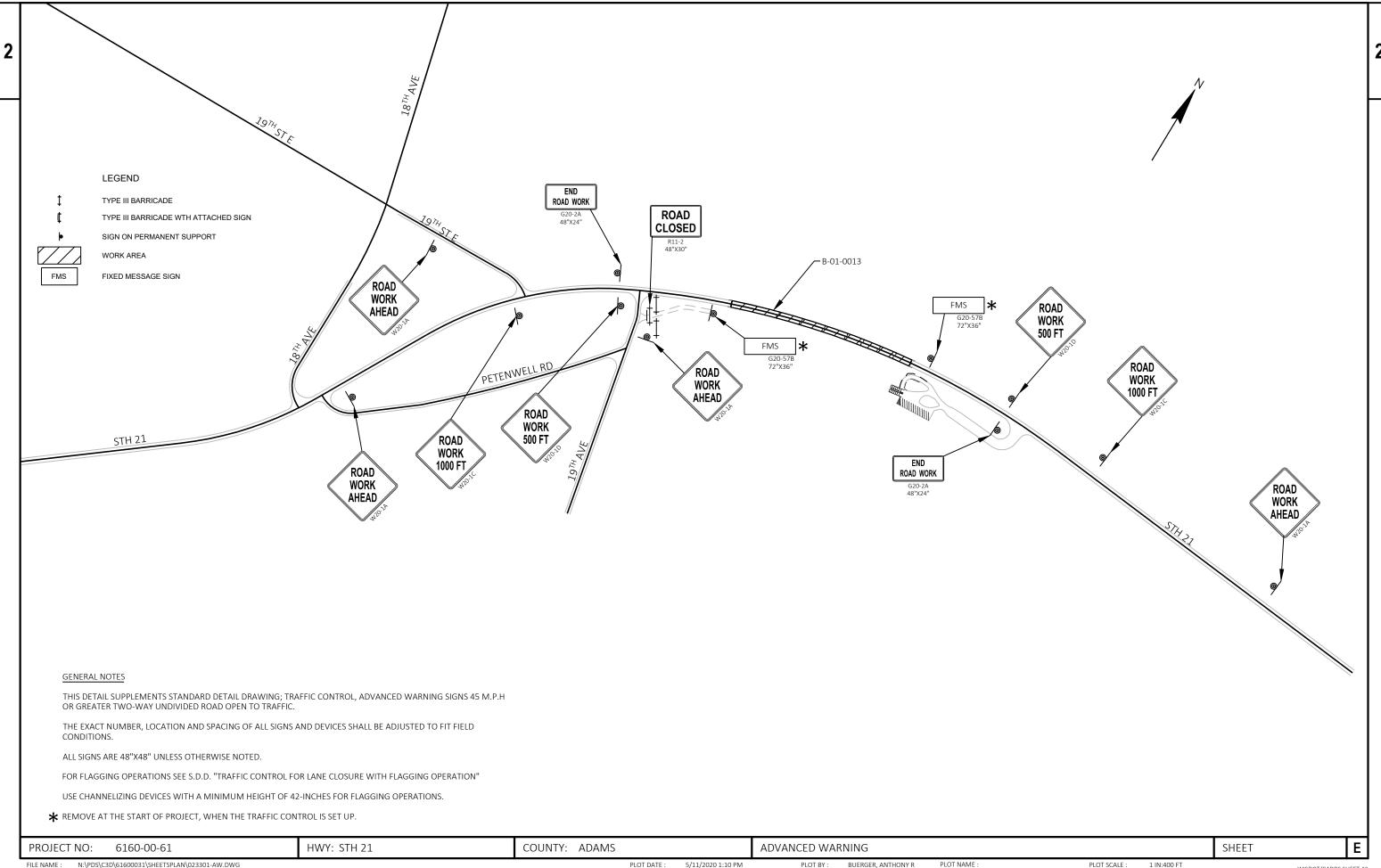
PROJECT NO: 6160-00-61 HWY: STH 21 COUNTY: ADAMS GENERAL NOTES SHEET: **E**

PLOT DATE : ______ PLOT DATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT NAME : _____ PLOT SCALE : 1:1



PLOT BY:





PLOT BY: BUERGER, ANTHONY R PLOT NAME : N:\PDS\C3D\61600031\SHEETSPLAN\023301-AW.DWG PLOT DATE : PLOT SCALE : 1 IN:400 FT 5/11/2020 1:10 PM WISDOT/CADDS SHEET 42 LAYOUT NAME - AW

0030

SPV.0105 Special 01. Structure Repainting Recycled Abrasive B- LS 01-0013 Modified

_	
Page	1

					6160-00-61
Line	Item	Item Description	Unit	Total	Qty
0002	213.0100	Finishing Roadway (project) 01. 6160-00-61	EACH	1.000	1.000
0004	517.3000.S	Structure Overcoating Cleaning and Priming (structure) 01. B-01-0013	LS	1.000	1.000
0006	517.4000.S	Containment and Collection of Waste Materials (structure) 01. B-01-0013	LS	1.000	1.000
8000	517.4500.S	Negative Pressure Containment and Collection of Waste Materials (structure) 01. B-01-0013	LS	1.000	1.000
0010	517.6001.S	Portable Decontamination Facility	EACH	1.000	1.000
0012	619.1000	Mobilization	EACH	1.000	1.000
0014	628.1504	Silt Fence	LF	450.000	450.000
0016	628.1520	Silt Fence Maintenance	LF	450.000	450.000
0018	642.5001	Field Office Type B	EACH	1.000	1.000
0020	643.0420	Traffic Control Barricades Type III	DAY	153.000	153.000
0022	643.0705	Traffic Control Warning Lights Type A	DAY	204.000	204.000
0024	643.0900	Traffic Control Signs	DAY	561.000	561.000
0026	643.1000	Traffic Control Signs Fixed Message	SF	36.000	36.000
0028	643.5000	Traffic Control	EACH	1.000	1.000

1.000

1.000

Estimate Of Quantities

3

3

TRAFFIC CONTROL

TRAFFIC CONTROL SIGNS FIXED MESSAGE

			643.0420	643.0705 WARNING		SIGN 643.1000 CODE MESSAGE SIZE SF REMARKS
SIGN NUMBER	MESSAGE	LOCATION	BARRICADES TYPE III DAY	LIGHTS TYPE A DAY	643.0900 SIGNS DAY	HWY 21 G20-57B BRIDGE WORK 72"X36" 18 PLACE 7 DAYS PRIOR TO CONSTRUCTION BEGINS XXX-XX
G20-2A	END ROAD WORK	LT & RT			102	
W20-1A	ROAD WORK AHEAD	LT & RT			204	HWY 21
W20-1C	ROAD WORK 1000 FT	LT & RT			102	G20-57B BRIDGE WORK 72"X36" 18 PLACE 7 DAYS PRIOR TO CONSTRUCTION
W20-1D	ROAD WORK 500 FT	LT & RT			102	BEGINS XXX-XX
R2-11	ROAD CLOSED	167+30 RT	153	204	51	TOTAL 0010 36
	TOTAL 0010	-	153	204	561	101/12 0020 00

SILT FENCE SILT FENCE MAINTANCE 628.152 628.1504 STATION - STATION LOCATION LF LF **REMARKS** 167+50 - 172+00 RT 450 450 NOT TO BE TRENCHED IN 450 450 TOTAL 0010

NOTE: QUANTITIES ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

PROJECT NO: 6160-00-61 HWY: STH 21 COUNTY: ADAMS MISCELLANEOUS QUANTITIES SHEET: **E**

Standard Detail Drawing List

TYPICAL APPLICATION OF SILT FENCE

6

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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 11/8" X 11/8" 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



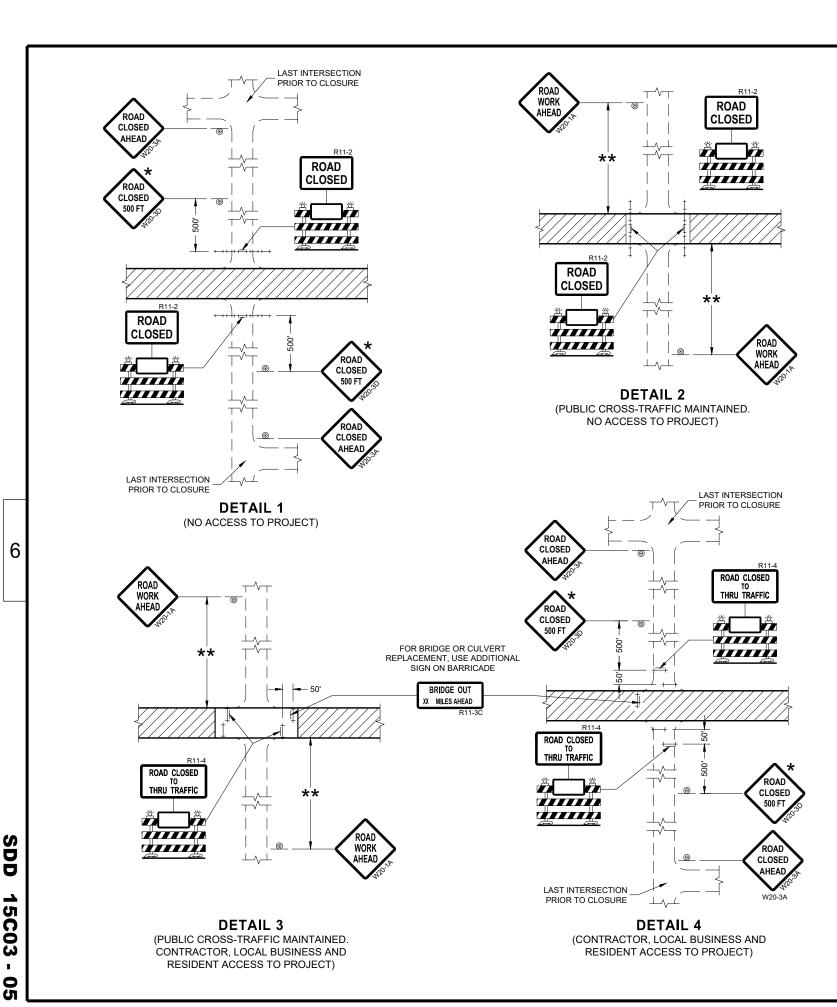
SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

တ ∞



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 (500 FEET DESIRABLE) 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 REESTABLISHED.

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

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN 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 FEET OR LESS FROM THE WORK ZONE.
- ** 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.

LEGEND

SIGN ON PERMANENT SUPPORT

TYPE III BARRICADE

TYPE III BARRICADE WITH ATTACHED SIGN

TYPE "A" WARNING LIGHT (FLASHING)

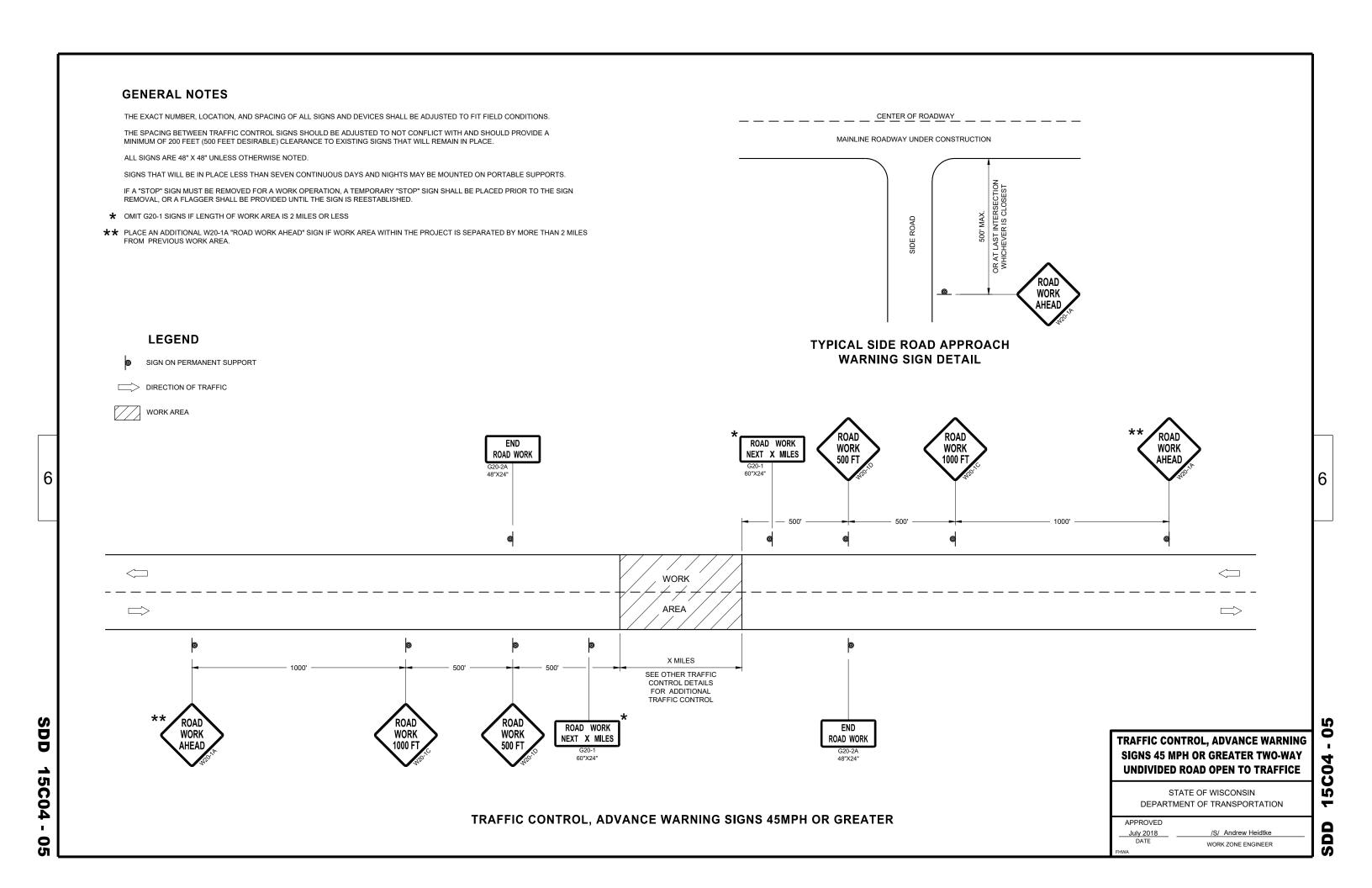
WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

 July 2018
 /S/ Andrew Heidtke

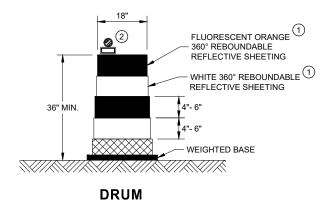
 DATE
 WORK ZONE ENGINEER

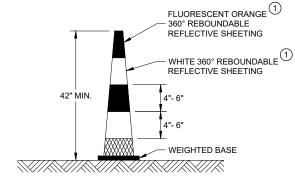


SDD 15C11 - 07

GENERAL NOTES

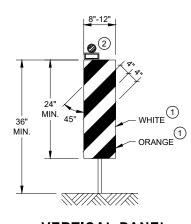
- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



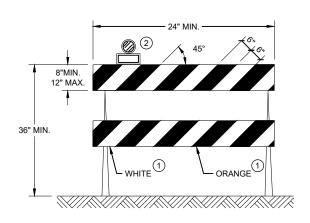


42" CONE
DO NOT USE IN TAPERS

½ SPACING OF DRUMS

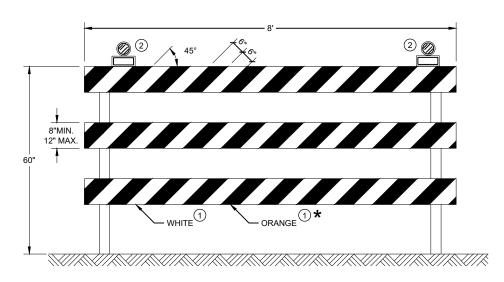


VERTICAL PANEL THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III 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

07

SDD 15C

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	
June 2017	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER

RUMBLE

STRIPS

ROAD

WORK

GENERAL NOTES FLAGGING LEGEND FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE SIGN ON PORTABLE OR PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PERMANENT SUPPORT PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING. UNIFORM TRAFFIC CONTROL DEVICES. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING TEMPORARY PORTABLE RUMBLE WORK OPERATION OR AS APPROVED BY THE ENGINEER. STRIP ARRAY "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE. SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE DIRECTION OF TRAFFIC ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED. THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP WORK AREA **TEMPORARY PORTABLE RUMBLE STRIPS** WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS. TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER. FLAGGER, EQUIPPED WITH STOP/SLOW EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S PADDLE FASTENED ON SUPPORT STAFF RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN. ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST. INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS. DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS. **SIGN AND TEMPORARY RUMBLE** STRIP ARRAY SPACING TABLE 5' MIN BE SPEED LIMIT SPACING "A" USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, PREPARED THIS SIGN SHALL BE LOCATED BETWEEN THE 25-30 MPH TO STOP W20-7A AND W20-4A SIGNS, USING SPACING "A" 35-40 MPH STOP/SLOW PADDLE ŔUMBLĖ 45-55 MPH 500' WO3-4 WORK **ON SUPPORT STAFF** ROAD STRIPS 1 VARIABLE DISTANCE - 200' - 300' (TYP.) END ROAD WORK |||3 WORK AREA A/2 END ROAD WORK 200' - 300' (TYP.) VARIABLE DISTANCE

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

LANE CLOSURE WITH **FLAGGING OPERATION**

2

S

TRAFFIC CONTROL FOR

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2019 DATE WORK ZONE ENGINEER



TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SO. 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 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

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 REQUIREM	NUMBER OF		
L	E	WOOD POSTS REQUIRED	
48" OR LESS AND LESS THAN 20 SO.FT.	-	1	
LESS THAN 60"	12"	2	٤
60" TO 120"	L/5	2	
GREATER THAN 120" LESS THAN 168"	12"	3	
168" AND GREATER	12"	4	

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

-11

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6

- 11/2" DIAMETER HOLES

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 ∞ **2**D

DEPARTMENT OF TRANSPORTATION

/S/ Andrew Heidtke WORK ZONE ENGINEER

APPROVED

June 2017
DATE

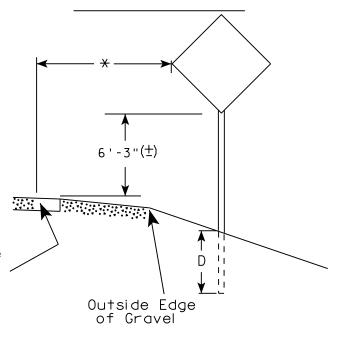
urban area

2' Min - 4' Max (See Note 6)

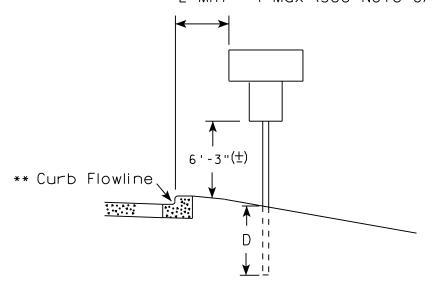
** Curb Flowline

D | White Edgeline Location

RURAL AREA (See Note 2)



2' Min - 4' Max (See Note 6)



White Edgeline
Location

Outside Edge
of Gravel

PLOT DATE: 21-AUG-2017 16:04

** 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.

POST EMBEDMENT DEPTH

Area of Sign	
Installation	D
(Sq.Ft.)	(Min)
20 or Less	4'
Greater than 20	5'

* 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.

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" (\pm) or 6'-3" (\pm) 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 $5'-3''(\pm)$.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The (\pm) tolerance for mounting height is 3 inches.
- 8. Folding signs shall be mounted at a height of 5'-3'' (\pm) 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

Matther R Rauch

For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

SHEET NO:

PROJECT NO:

HWY:

COUNTY:

NTY:

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE : 100.601251:1.000000



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



DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

WISDOT/CADDS SHEET 42

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'' (\pm) 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

D
(Min)
4'
5'

WISCONSIN DEPT OF TRANSPORTATION APPROVED For State Traffic Engineer DATE 8/21/17 PLATE NO. <u>A4-4.15</u>





	SIGN SHAPE OTHER THAN (TWO POSTS REQUIRE)		
	L	E	
***	Greater than 48" Less than 60"	12"	
	60" to 108"	L/5	

HWY:

SIGN SHAPE OTHER THAN (THREE POSTS REQUIR	
L	E
Greater than 108" to 144"	12''

COUNTY:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN

PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

PLOT SCALE: 108.188297:1.000000

WISDOT/CADDS SHEET 42

OF TYPE II SIGNS ON MULTIPLE POSTS

TYPICAL INSTALLATION

SHEET NO:

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:



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

Nather R Raw
For State Traffic Engineer

DATE <u>8/11/16</u>

PLATE NO. <u>44-8.8</u>

PROJECT NO:

FILE NAME : C:\CAFfiles\Projects\tr stdplote\A48 DCN

PLOT DATE . 11-416-2016 11:35

PINT RY * \$\$ nintuser \$\$

SHEET NO:

| | |



PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

DATE 2/05/15

PLATE NO. <u>A4-9.9</u>

For State Traffic Engineer



BANDING



SINGLE SIGN





WASHER PLACEMENT



HWY:

WASHERS (ALL POSTS) -

1-1/4" O.D. X³/₈" I.D. X¹/₁₆" STEEL 1-1/4" O.D. $\times \frac{3}{8}$ " I.D. \times .080 NYLON FOR ALL TYPE H SIGNS

CHANNEL

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 $\frac{3}{4}$ " in width and 0.025" thickness.
- 4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 6/10/19

PLATE NO. A5-9.4

Ε

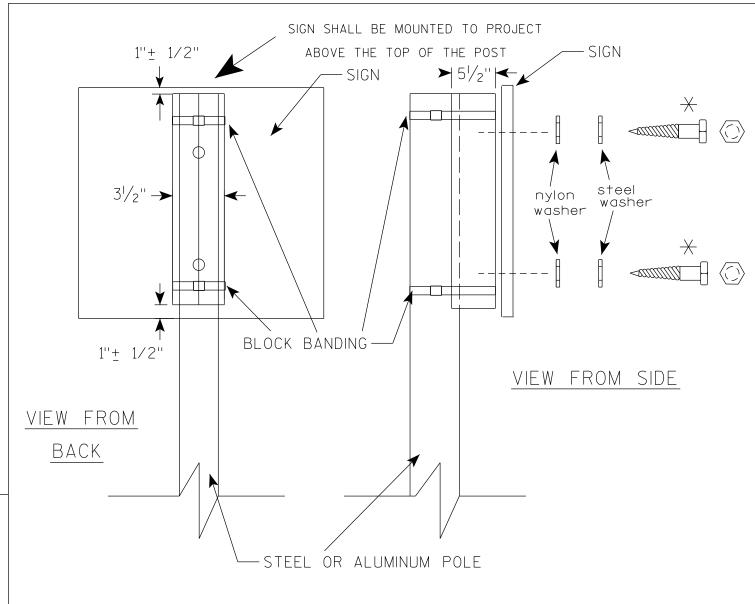
State Traffic Engineer

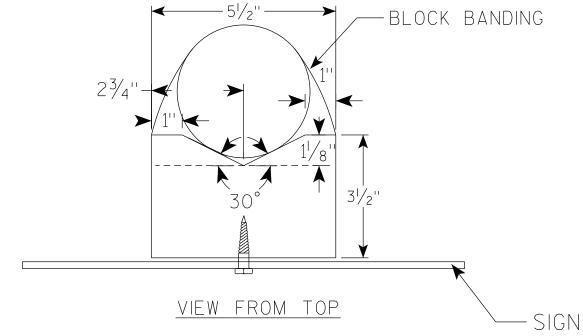
COUNTY:

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

PROJECT NO:





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, $\frac{3}{4}$ " 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
 - b. 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 $1\frac{1}{4}$ " O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ "
- 8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $\frac{3}{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

 \rightarrow LAG BOLTS SHALL BE $\frac{3}{8}$ " X $2\frac{1}{2}$ "

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

Matthew R

APPROVED

For State Traffic Engineer

SHEET NO:

DATE <u>6/10/19</u>

PLATE NO. <u>A5-10.2</u>

PROJECT NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A510.dgn

PLOT DATE: 10-JUN 2019 4:15

PLOT BY : mscj9h

WISDOT/CADDS SHEET 42

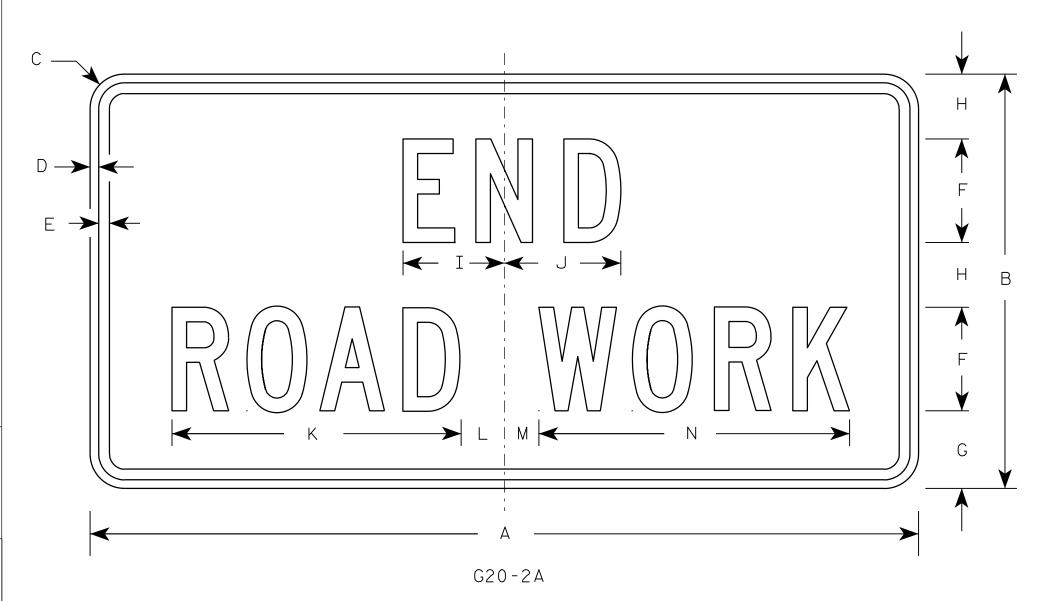
NOTES

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	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 ½	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 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 1/8	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72

COUNTY:

STANDARD SIGN G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED AND UN A O N

Matther R Lauch

For State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\G202A.DGN

HWY:

PROJECT NO:

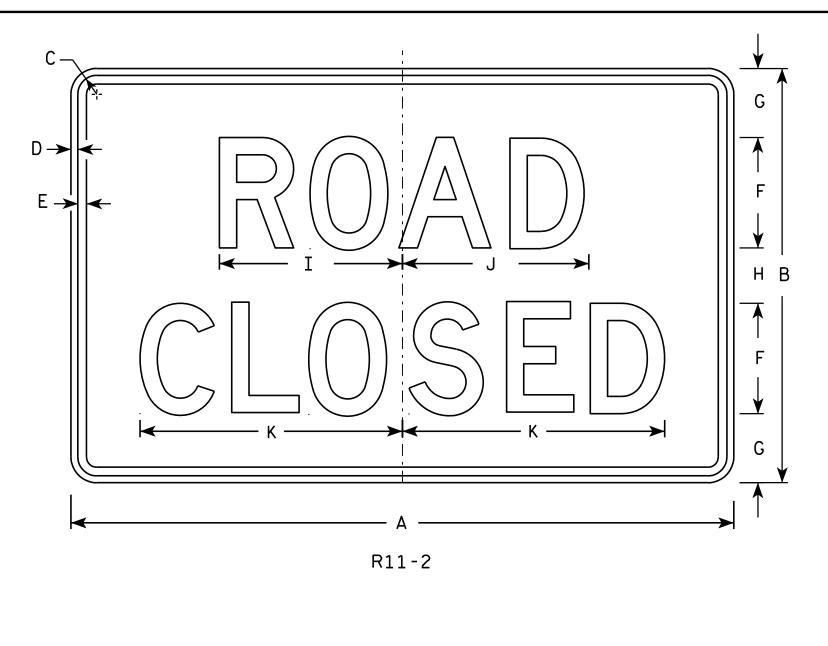
PLOT DATE: 30-SEP-2009 09:31

PLOT BY: ditjph

PLOT NAME :

PLOT SCALE: 5.561773:1.000000

WISDOT/CADDS SHEET 42

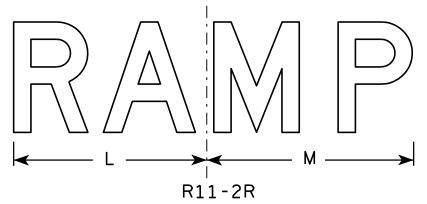


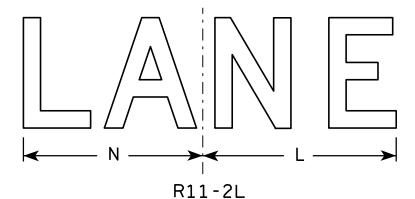
<u>NOTES</u>

- 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.





SIZE	A	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Ρ	0	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
PRO	DJECT	NO:						HWY:					С	OUNTY	':												

STANDARD SIGN R11-2

WISCONSIN DEPT OF TRANSPORTATION

DATE 4/1/11 PLATE NO. R11-2.10

SHEET NO:

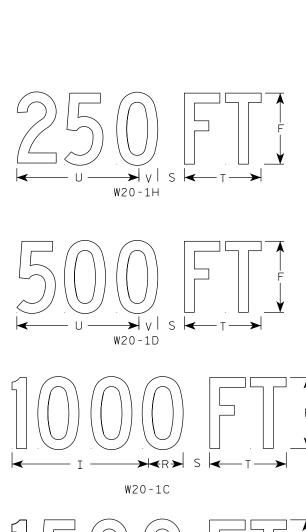
PLOT BY: mscj9h

NOTES

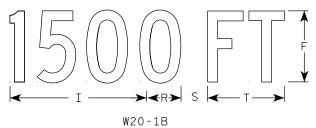
- 1. Sign is Type II Type F Reflective
- 2. Color:

Background - Orange Message – Black

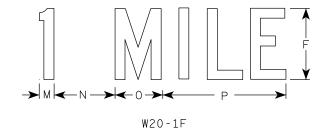
- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.













SIZ	E A	E	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U V	W	X	Υ	Z	Area sq. ft.
1	36	5	1	1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 1/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 %	9 1 3	8 8	1 3/4	10 3/4	6	9.0
23	5 48	3	2	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 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 3/4 2 1/	⁄ ₈ 11	7/8 2 3/4	16 3/8	9	16.0
21	√ 48	3	2	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 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 3/4 2 1/	⁄ ₈ 11	7/8 2 3/4	16 3/8	9	16.0
3	48	3	2	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 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 5/8	13 3/4 2 1/	⁄ ₈ 11	√ ₈ 2 ¾ ₄	16 3/8	9	16.0
4	48	3	2	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 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 3/4 2 1/	⁄ ₈ 11	7/8 2 3/4	16 3/8	9	16.0
5	48	3	2	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 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 5/8	13 3/4 2 1/	8 11	√ ₈ 2 ¾ ₄	16 3/8	9	16.0

STANDARD SIGN W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer
PLATE NO. W20-1.11

DATE <u>9/25/19</u>

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN

PROJECT NO:

W20-1A

PLOT DATE: 25-SEPT-2019

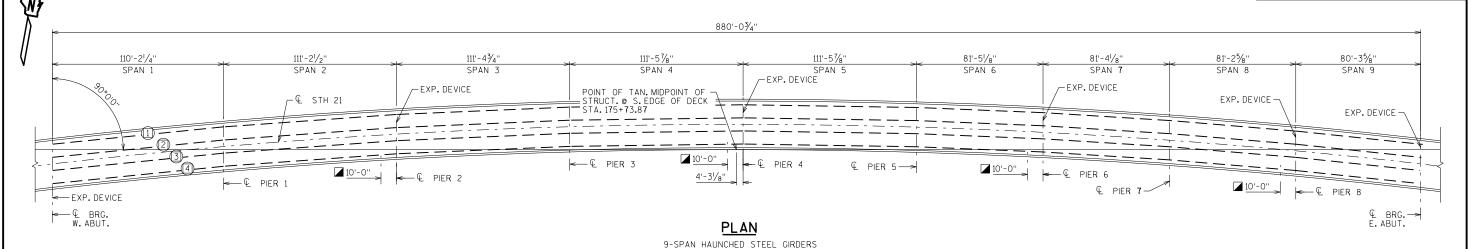
PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε



6160-00-61



30'-0" - CLEAR ROADWAY WIDTH 15'-0" 15'-0" -EXISTING ALUM. 'H' RAILING € STH 21-_3**.7**% _ - EXISTING 'LF' PARAPET (TYP.) -PAINT ALL EXPOSED STRUCTURAL STEEL SURFACE AREAS, INCLUDING BEARINGS, SEE PAINTING DETAILS ON 'GIRDER DETAILS & ELEVATION' - EXISTING RIVETED STEEL GIRDERS (SPANS 1-5) EXISTING W36X150 GIRDERS (SPANS 6-9) 3 4 VARIES 8'-5" VARIES 8'-5" 8'-5" 3'-7¹/₄" MIN. 3'-23/8" MIN. TO 3'-71/4" MAX. TO 4'-01/8" MAX.

DESIGN DATA

LIVE LOAD: (FROM HSI APRIL 2018) INVENTORY RATING: HS-18
OPERATING RATING: HS-31
WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 200(KIPS)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

THE COLOR OF THE FINISH TOP COAT SHALL BE LIGHT GREY, FEDERAL STANDARD COLOR #26293.

DIMENSIONS SHOWN ARE BASED ON THE EXISTING STRUCTURE PLANS.

CURVE DATA

STH 21

P.I. = 175+73.87 △ = 13°-13'-48" D = 1'-30'-00"

S.E. = 3.7%

T = 442.98'R = 3819.83'

TRAFFIC VOLUME

ADT = 4,600 (2014)

R.D.S. = 60 M.P.H.

STRUCTURE DESIGN CONTACTS:

(608) 266-8490 DAN MONROE LAURA SHADEWALD (608) 26**7**-9592

NO. DATE REVISION BY 5/8/20 CHIEF STRUCTURES DESIGN ENGINEER STRUCTURE B-1-13 STH 21 OVER WISCONSIN RIVER STRONGS PRAIRIE DESIGN SPEC. REHABILITATION N/A DESIGNED DESIGNED DRAWN BY DLM CK'D. JLR BY DLM PLANS JLR SHEET 1 OF **GENERAL** PLAN

CROSS SECTION THRU ROADWAY

(LOOKING EAST)

TOTAL ESTIMATED QUANTITIES

8

	BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
ſ	51 7. 3000.S	STRUCTURE OVERCOATING CLEANING AND PRIMING B-1-13	LS	1
▼ [51 7. 4000.S	CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-1-13	LS	1
$oldsymbol{\Lambda}$	51 7. 4500.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS, B-1-13	LS	1
	51 7. 6001 . S	PORTABLE DECONTAMINATION FACILITY	EACH	1
lack	SPV.0105	STRUCTURE REPAINTING RECYCLED ABRASIVE B-1-13 MODIFIED	LS	1

■ EXISTING TYPE 'GC' FLOOR DRAINS

INDICATES GIRDER NO.

▲ TO BE USED FOR SPANS 1-5

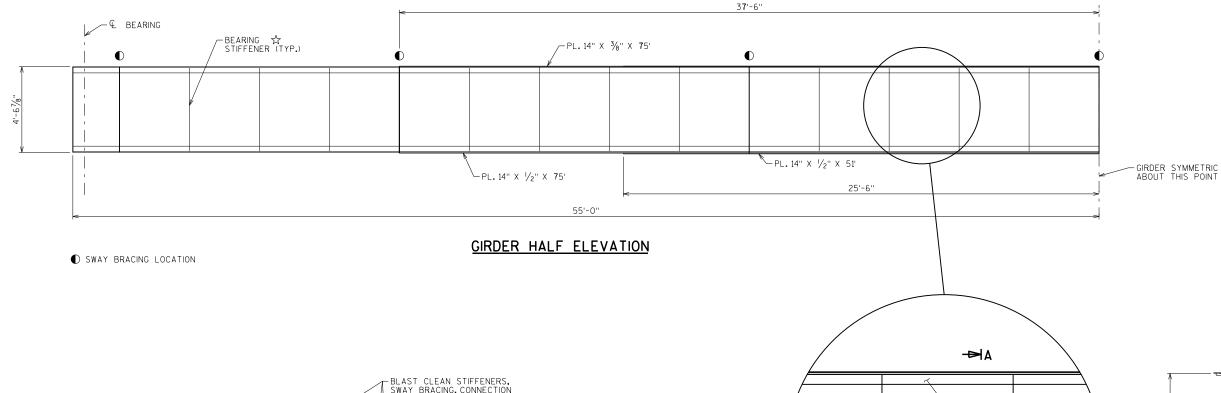
▼ TO BE USED FOR SPANS 6-9

LIST OF DRAWINGS

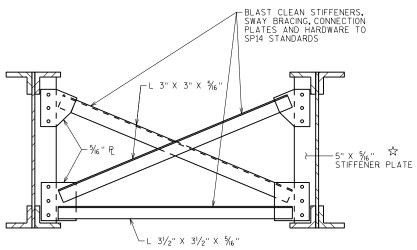
1. GENERAL PLAN
2. GIRDER DETAILS & ELEVATION SPANS 1-5
3. GIRDER DETAILS & ELEVATION SPANS 6-9

STATE PROJECT NUMBER

6160-00-61



TOP OF BOTTOM — FLANGE ANGLE

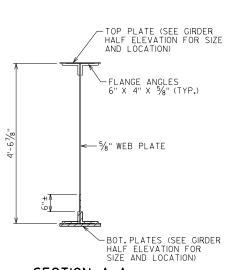


EXISTING SWAY BRACING DETAILS

EXT. GIRDERS - STIFF. PLATES ARE PLACED ON INSIDE FACE ONLY SEE GIRDER HALF ELEVATION FOR LOCATIONS

BLAST CLEAN BEARINGS, ENTIRE
BOTTOM FLANCE, AND APPROXIMATELY
6" INTO WEB SECTION TO SP6
STANDARDS.

BLAST CLEAN REMAINDER
OF GIRDER TO SP14
STANDARDS



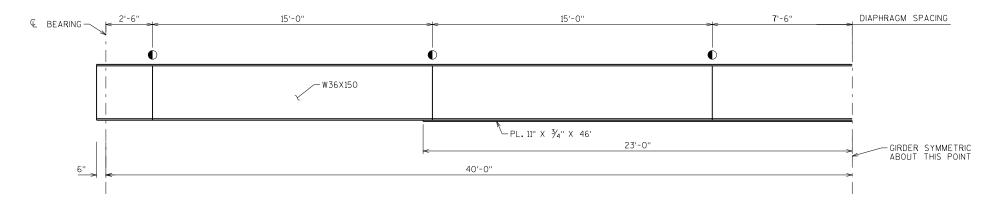
SECTION A-A

8

SCALF = 250

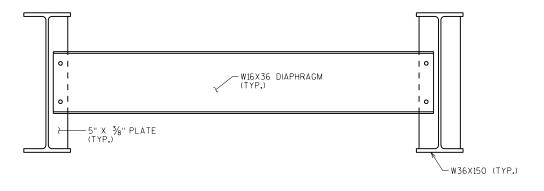
STATE PROJECT NUMBER

6160-00-61



GIRDER HALF ELEVATION

TYP. SPANS 6-9, EXCEPT AT SPAN 6 HAUNCH, SEE 'EXISTING HAUNCH DETAILS' FOR HAUNCH AT SPAN 6.

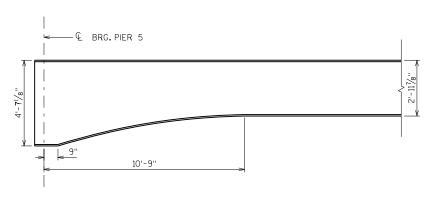


DIAPHRAGM LOCATIONS

8

EXISTING DIAPHRAGM DETAILS

SEE ELEVATION FOR LOCATIONS



EXISTING HAUNCH DETAILS

SPAN 6 ONLY- LOCATED AT & BRG. PIER 5 ONLY.

_													
NO.	DATE	RE	VISION			BY							
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION												
S	STRUCTURE B-1-13												
			DRAWN BY	DLM	PLANS CK'D.	JLR							
	GIRDER DETAILS SHEET 3												
		ELEVATIO PANS 6-9			·								

NOTE: FIELD SPLICE LOCATIONS NOT SHOWN

CAIF = 2.50



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov