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#### MAD **JULY 2013**

#### ORDER OF SHEETS

Section No. 1 Title Section No. 2 Typical Sections and Details Estimate of Quantities Miscellaneous Quantities Section No. 6 Standard Detail Drawings Section No. 8 Structure Plans

TOTAL SHEETS = 14

#### DESIGN DESIGNATION

A.A.D.T. (2013) A.A.D.T. D.H.V. D.D. DESIGN SPEED = 60 MPH

#### CONVENTIONAL SYMBOLS

MARSH AREA

WOODED OR SHRUB AREA

PI AN 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

**PROFILE** 

GRADE LINE

ORIGINAL GROUND

SPECIAL DITCH

UTILITIES

ELECTRIC

FIBER OPTIC

SANITARY SEWER

UTILITY PEDESTAL

TELEPHONE POLE

STORM SEWER

TELEPHONE

POWER POLE

GRADE ELEVATION

# STATE OF WISCONSIN

## DEPARTMENT OF TRANSPORTATION

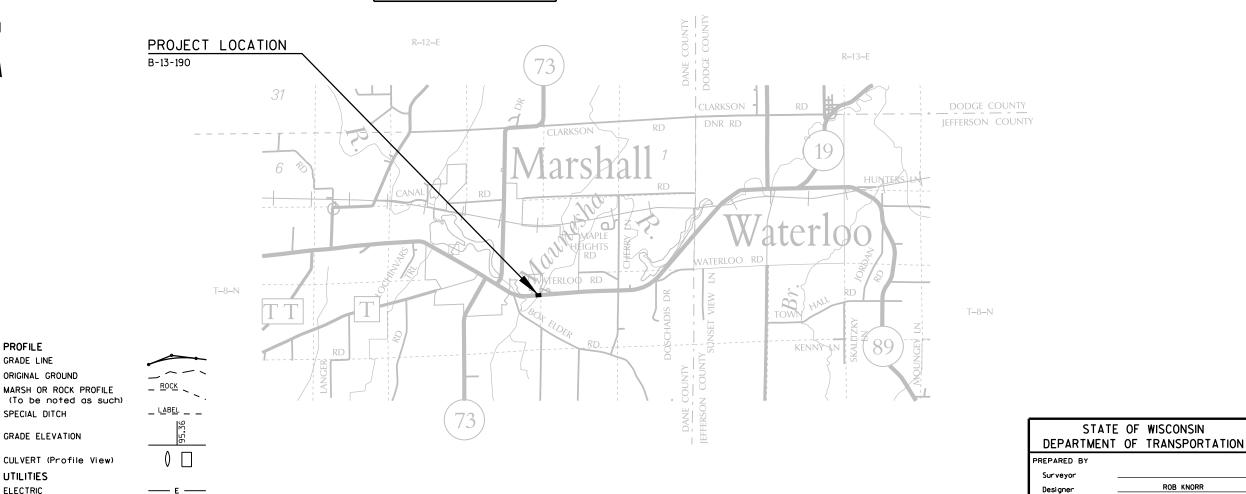
PLAN OF PROPOSED IMPROVEMENT

## SUN PRAIRIE - WATERTOWN

MAUNESHA RIVER STRUCTURE B-13-190

# **STH 19** DANE COUNTY

STATE PROJECT NUMBER 3050-01-61



LAYOUT SCALE L 2/3 MI.

TOTAL NET LENGTH OF CENTERLINE = 0.03 MI.

C.O. Examiner

STATE OF WISCONSIN

FEDERAL PROJECT

CONTRACT

PROJECT

STATE PROJECT

3050-01-61

FILE NAME: R:\Projects\d1\_30500131\010101\_ti.dgn

PLOT DATE: 16-APR-2013 09:22

PLOT BY : dot.i3.i

PLOT NAME :

PLOT SCALE: 200.000000:1.000000

Project Manager

Regional Examiner

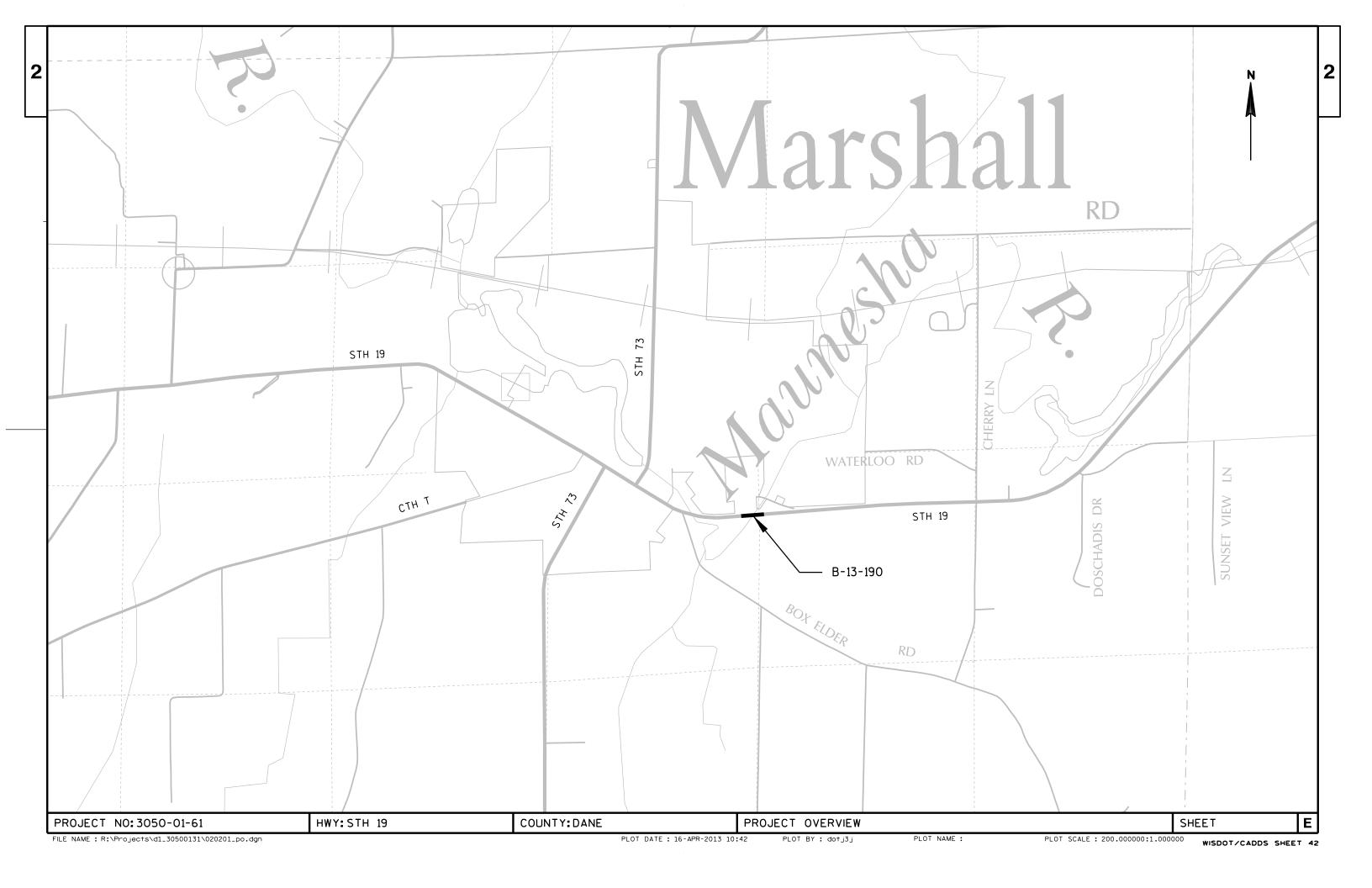
Regional Supervisor \_\_\_

WISDOT/CADDS SHEET 10

ROB KNORR

DAVID LAYTON

BRENDA SCHOENFELD



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**GENERAL NOTES** 

Width of traffic lane shall be no less than 18.5' from structure rail to edge of temporary concrete barrier.

There are utility facilities within the project area that are not shown on the plans. The contractor shall coordinate his construction activities with a call to Diggers Hotline and/or a direct call to the utilities that have facilities in the area. Not all utilities are members of Diggers Hotline. The Engineer shall adjust the locations of items under this contract to avoid conflict with the existing utility facilities.

### **UTILITY CONTACTS**

FRONTIER COMMUNICATIONS OF WILLC

ROBERT CHURCH - COMM. LINE 100 COMMUNICATIONS DRIVE SUN PRAIRIE, WI 53590 (608) 837-1881

robert.church@ftr.com

WE ENERGIES - ELECTRICAL / GAS / PETROLEUM

DAN SANDE A299 333 WEST EVERETT STREET MILWAUKEE, WI 53203 (414) 221-4578

Dan.Sande@we-energies.com

**CHARTER COMMUNICATIONS - COMM. LINE** 

BRANDON STORM 2701 DANIELS STREET MADISON, WI 53718

(608) 274-3822

brandon storm@chartercom.com



#### **DNR LIAISON**

ERIC HEGGELUND SOUTH CENTRAL REGION HEADQUARTERS 3911 FISH HATCHERY ROAD FITCHBURG, WI 53711-5397 608-275-3301 **DESIGN CONTACT** 

DAVID LAYTON, P.E. WISDOT SW REGION 2012 WRIGHT STREET MADISON, WI 53704 608-246-3821

David.Lavton@dot.wi.go

PROJECT NO: 3050-01-61 HWY: STH 19 COUNTY: DANE GENERAL NOTES SHEET: **E** 

FILE NAME : PLOT DATE : 4/16/2013 11:03 AM PLOT BY : PLOT NAME : PLOT SCALE : N/A

DATE 01	MAY13	E S T	IMAT	E O F Q U A N	T I T I E S 3050-01-61
	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY
0010	203. 0200	REMOVING OLD STRUCTURE (STATION) 01. 0+00	LS	1. 000	1. 000
0020	213. 0100	FINISHING ROADWAY (PROJECT) 01. 3050-01-61	EACH	1.000	1. 000
0030	502.0100	CONCRETE MASONRY BRIDGES	CY	3.000	3.000
0040	502.3200	PROTECTIVE SURFACE TREATMENT	SY	14.000	14.000
0050	505. 0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	580. 000	580. 000
0060	513. 4050	RAILING TUBULAR TYPE F (STRUCTURE) 01. B-13-190	LS	1. 000	1. 000
0070	618. 0100	MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 01. 3050-01-61	EACH	1. 000	1. 000
0800	619. 1000	MOBILIZATION	EACH	1. 000	1. 000
0090	643. 0100	TRAFFIC CONTROL (PROJECT) 01. 3050-01-61	EACH	1. 000	1. 000
0100	643. 0300	TRAFFIC CONTROL DRUMS	DAY	360.000	360. 000
0110	643. 0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	18. 000	18. 000
0120	643.0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	DAY	180.000	180. 000
0130	643.0900	TRAFFIC CONTROL SIGNS	DAY	252.000	252.000
0140	643. 1050	TRAFFIC CONTROL SIGNS PCMS	DAY	14. 000	14.000
0150	646. 0106	PAVEMENT MARKING EPOXY 4-INCH	LF	208. 000	208. 000
0160	646. 0600	REMOVING PAVEMENT MARKINGS	LF	188. 000	188. 000
0170	649. 0400	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH	LF	1, 810. 000	1, 810. 000
0180	649. 1400	TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 24-INCH	LF	24. 000	24. 000
0190	661. 0100	TEMPORARY TRAFFIC SIGNALS FOR BRIDGES (STRUCTURE) 01. B-13-190	LS	1. 000	1. 000

**MOBILIZATION** 

619.1000 3050-01-61 LOCATION EACH PROJECT TOTAL

#### PAVEMENT MARKING

LOCATION	646.0 PAVEM MARKING 4-INCH (YELLOW) LF	MENT GEPOXY 4-INCH	REMARKS
STH 19 B-13-190	188	20	CENTERLINE YELLOW SKIPS EDGELINE @ REPAIR AREA
D-10-190	<del>-</del>	20	EDGELINE & NEI AIN ANEA
CUDTOTAL	400	20	
SUBTOTAL	188	20	
TOTAL	<u>20</u>	<u>8</u>	

### REMOVING PAVEMENT MARKING

_	LOCATION	646.0600 LF	REMARKS
	STH 19	188	CENTERLINE YELLOW SKIPS
_	TOTAL	188	

#### TEMPORARY PAVEMENT MARKING

		649.( REMOVAE 4-IN	BLE TAPE CH	649.1400 STOP LINE REMOVABLE TAPE 24-INCH	
		YELLOW	WHITE	WHITE	
_	LOCATION	(LF)	(LF)	(LF)	REMARKS
_	STH 19 B-13-190 STH 19	700 - 700	- 410 -	12 - 12	WEST OF STRUCTURE ON STRUCTURE EAST OF STRUCTURE
_	SUBTOTAL	1,400	410	24	
	TOTAL	1.8	10	24	

#### TRAFFIC CONTROL

		TOTAL	1	<u>360</u>	18	<u>180</u>	<u>252</u>	<u>14</u>	1
	PROJECT	18	1	360	18	180	252	14	1
_	LOCATION	DAYS	643.0100 TRAFFIC CONTROL PROJECT EACH	643.0300 DRUMS DAYS	643.0420 BARRICADES TYPE III DAYS	643.0715 WARNING LIGHTS TYPE C DAYS	643.0900 TRAFFIC CONTROL SIGNS DAYS	643.1050 SIGNS PCMS DAYS	TEMPORARY TRAFFIC SIGNALS FOR BRIDGES (B-13-190) LS
									661.0100

HWY: STH 19 PROJECT NO: 3050-01-61

COUNTY: DANE

MISCELLANEOUS QUANTITIES PLOT BY : dotrzk

PLOT NAME:

PLOT SCALE: 200.000000:1.000000

SHEET

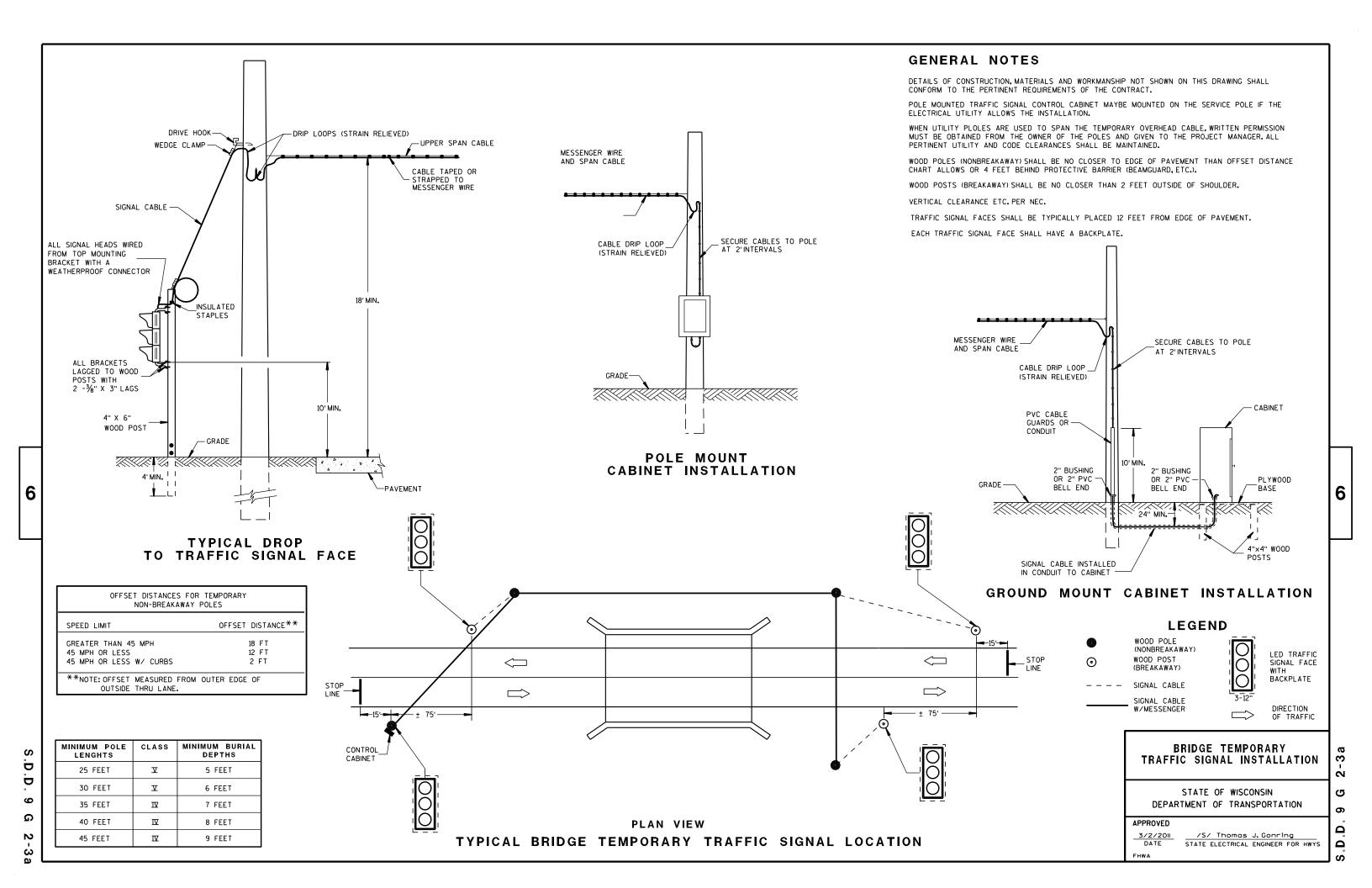
WISDOT/CADDS SHEET 43

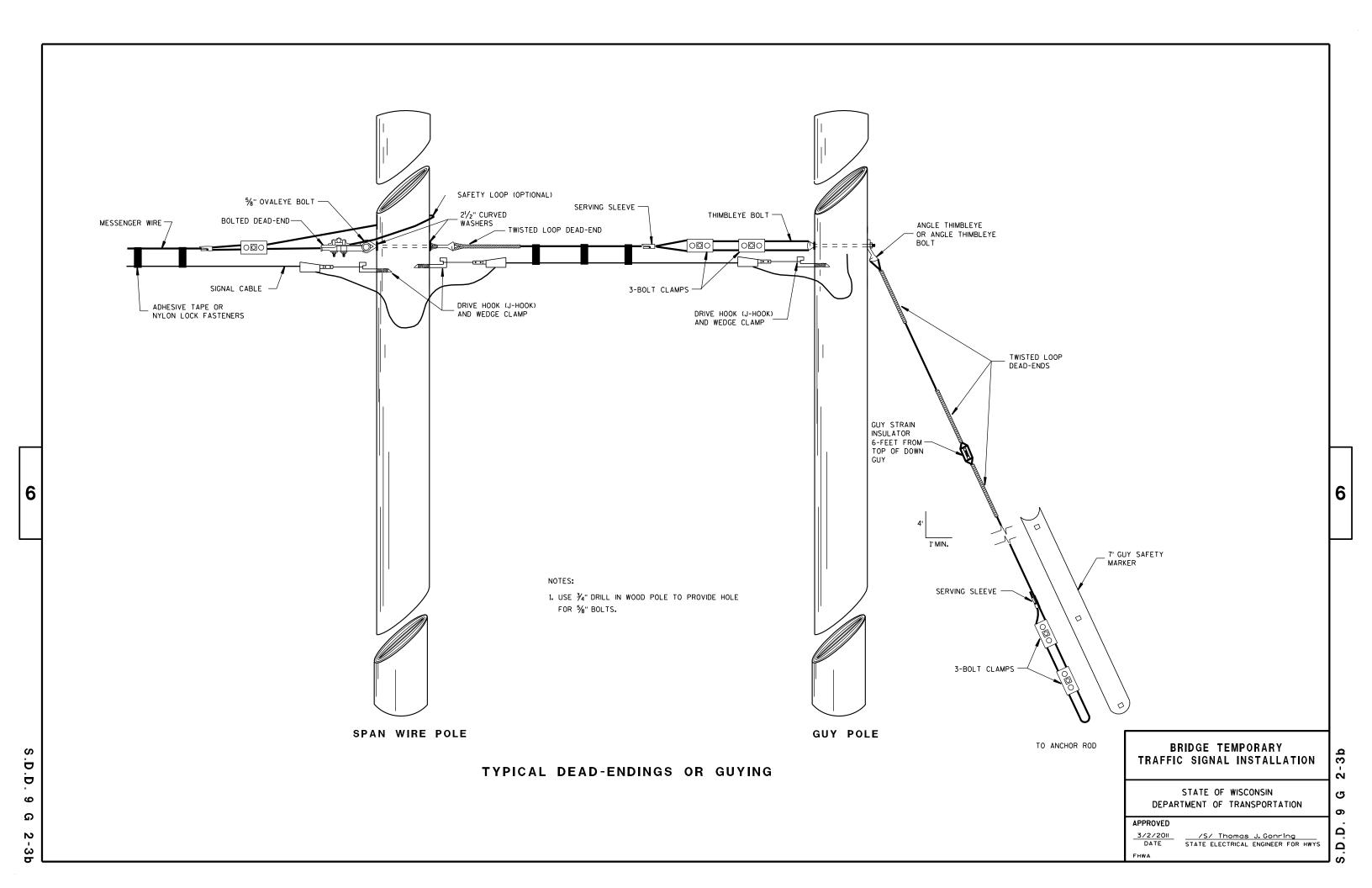
### Standard Detail Drawing List

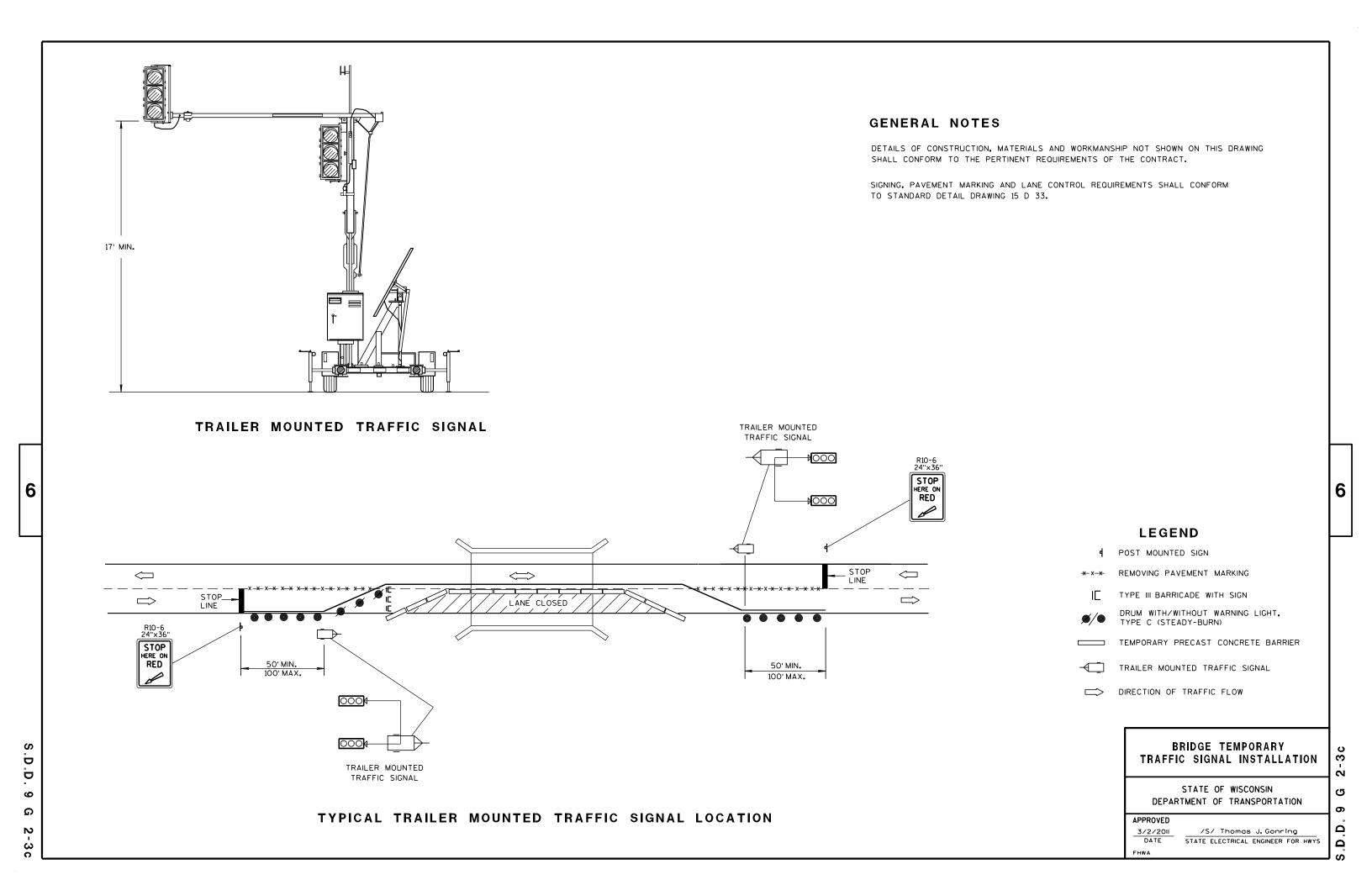
09G02-03A	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-03B	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
09G02-03C	BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION
15C08-15A	PAVEMENT MARKING (MAINLINE)
15D33-02	TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS

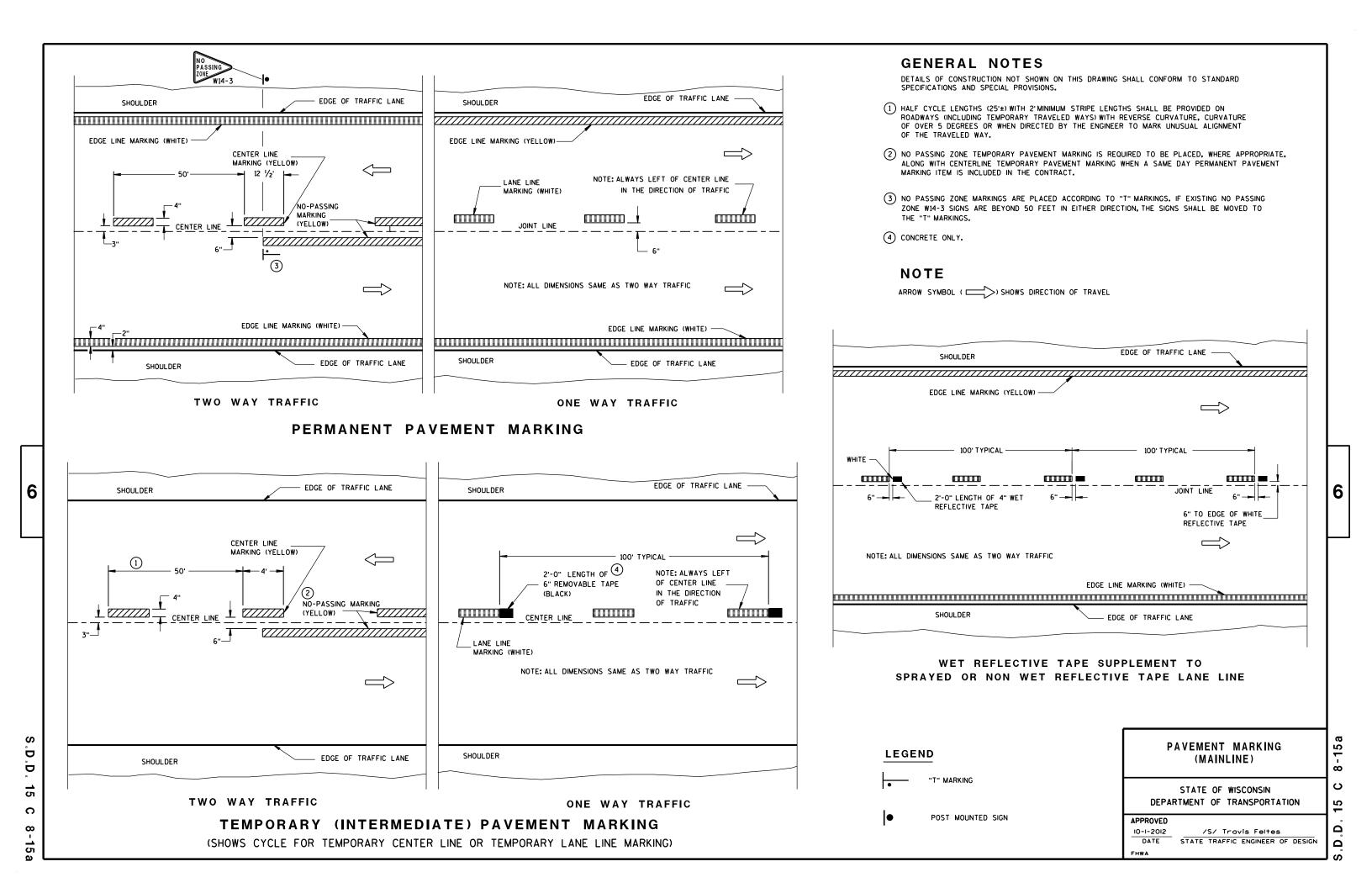
6

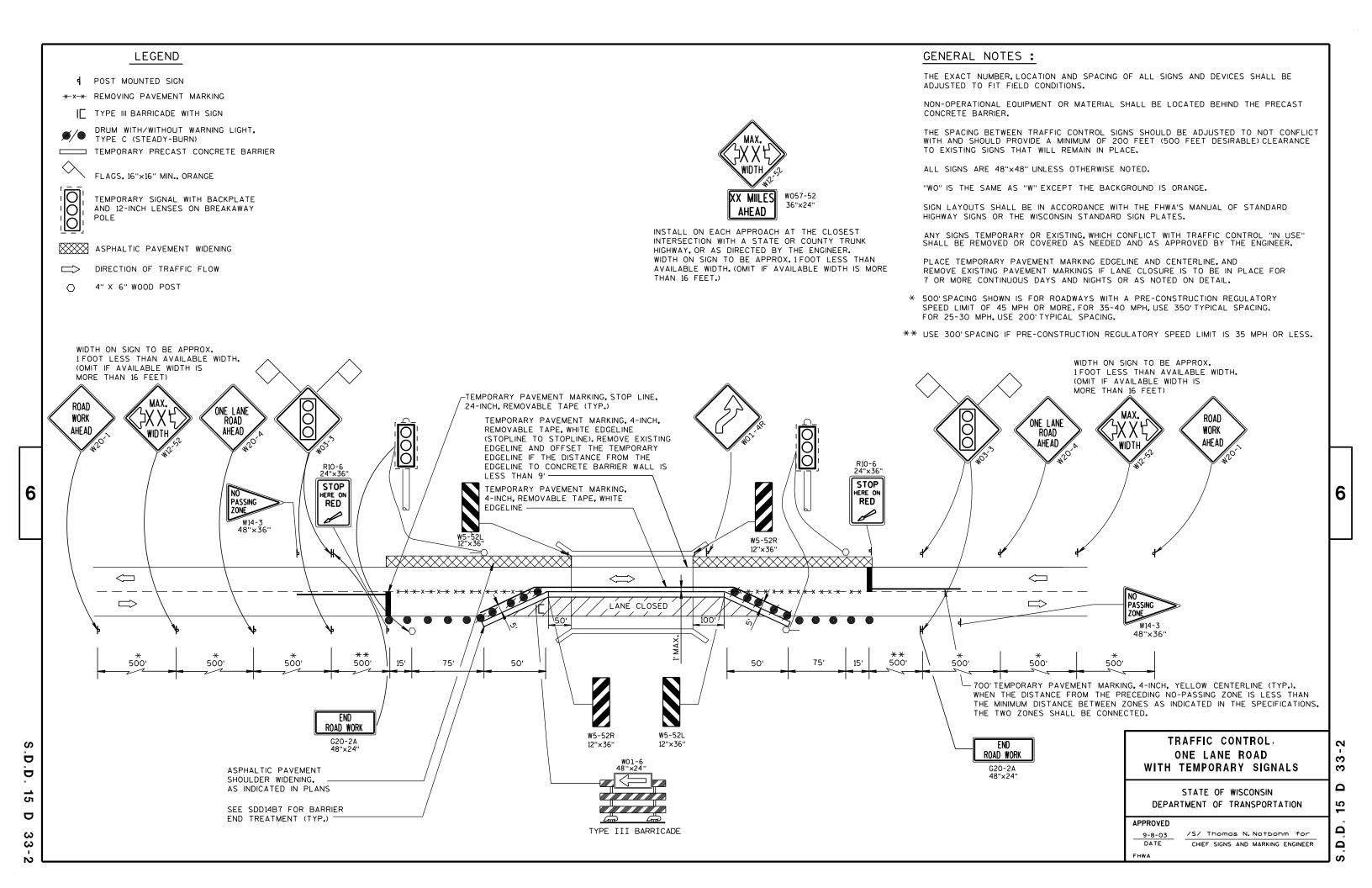
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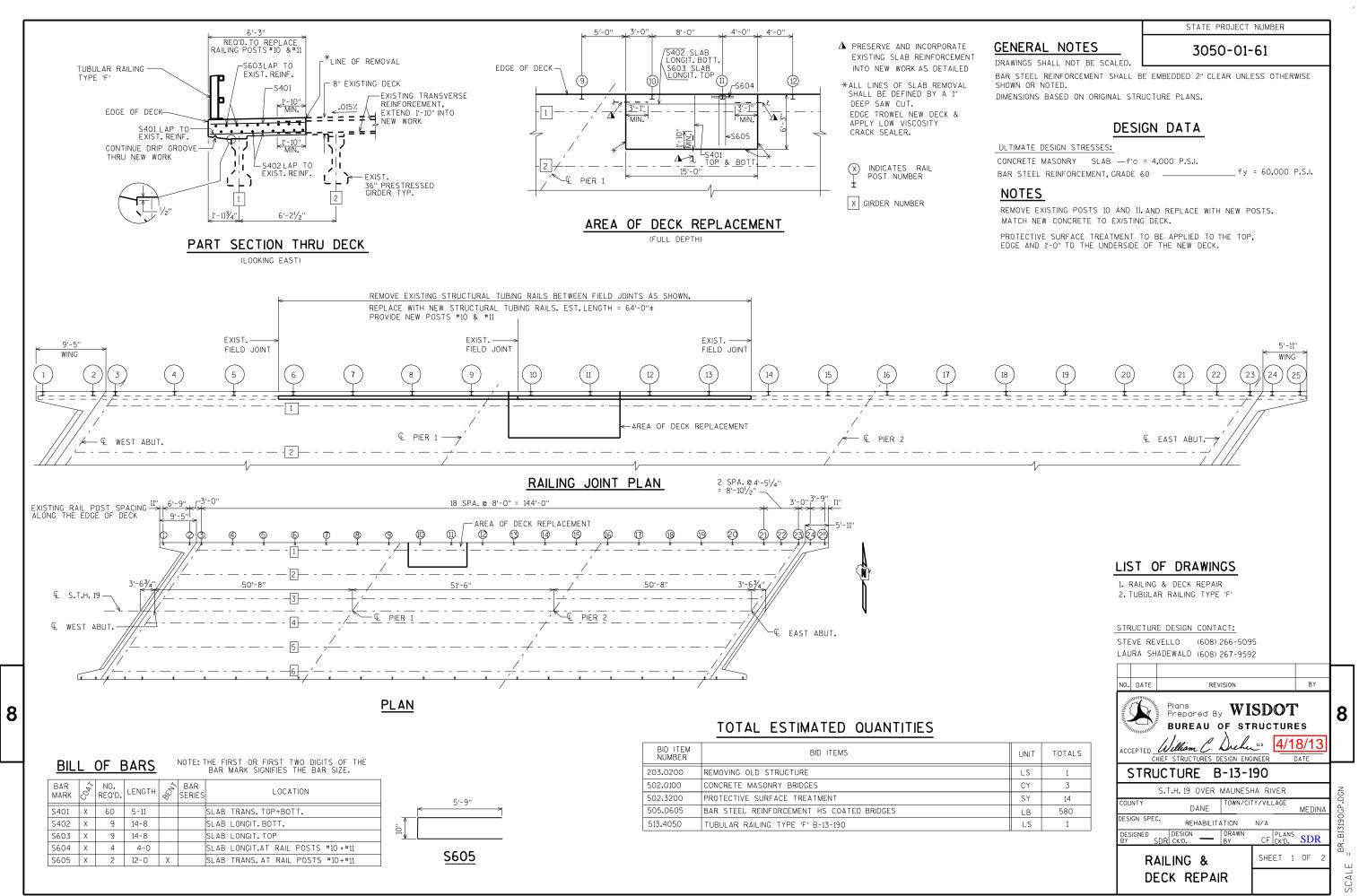












I.D.



#### 3050-01-61

### **LEGEND**

- (1) W6x25 WITH  $1^{1}/_{4}^{"}$  DIA. HOLES ON EACH SIDE OF POST FOR STUD NO.6. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL. PLACE POSTS NORMAL TO GRADE LINE.
- 2 PLATE 1" X 9½" X 10", WITH 1½" X 1½" SLOTTED HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO.1 AS SHOWN.
- 3 A325  $7_8$ " DIA. X 8" LONG HEX BOLTS (GALVANIZED) WITH A325 NUT & WASHER. 4 REQ'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING.
- 4  $\frac{1}{4}$  X 8" X 8" FLAT BAR, WITH  $\frac{15}{6}$ " DIA. HOLES FOR ANCHOR BOLTS NO.3.
- (5) TS 4 X 4 X 0.25 STRUCTURAL TUBING, CONFORMING TO ASTM DESIGNATION A501 OR A500 GRADE B. ATTACH TO NO.1 WITH TWO NO.6 STUDS.
- 6 5/8" DIA. X 11/2" LG. SHOP WELDED STUDS WITH HEX NUT AND 2" WASHERS. (2 REQ'D. AT EACH RAIL POST LOCATION) STUDS MAY BE FIELD WELDED TO MATCH LOCATION OF HOLES IN EXISTING POSTS.
- ) TS 3 X 3 X 0.25 X 1'-10" AT FIELD JOINTS LONG.PROVIDE 1/2" DIA. SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 5. PROVIDE 3/6" DIA. X 1/2" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

### GENERAL NOTES

BID ITEM SHALL BE "RAILING TUBULAR TYPE F B-13-190", WHICH INCLUDES ALL ITEMS SHOWN.

POST BASE PLATES, NO. 2, SHALL BE FLAT WITH ALL SURFACES SMOOTH, STRAIGHT AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME

ALL MATERIAL, EXCEPT ANCHORAGE DETAIL NO. 4 SHALL BE GALVANIZED AFTER FABRICATION.

FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO.2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER.

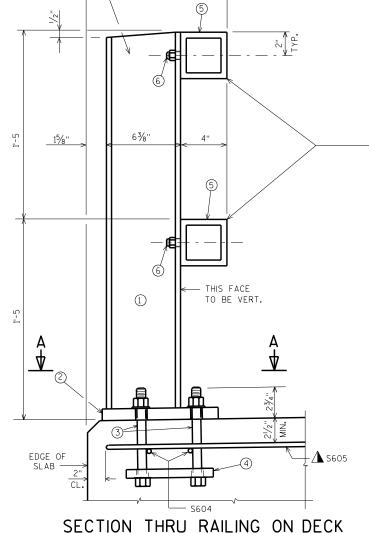
ALL MATERIALS USED IN FABRICATION SHALL BE MADE FROM MATERIALS CONFORMING TO ASTM DESIGNATION A709 GRADE 36 UNLESS NOTED OTHERWISE.

STEEL POST SHIMS MAY BE USED UNDER POSTS WHERE REQ'D. FOR

PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS & STEEL TUBING SHALL BE GIVEN A NO. 6 BLAST CLEANING BY SSPC SPECIFICATIONS.

PLACE FIRST BOTTOM LONGITUDINAL BAR CLEAR OF DRIP GROOVE.

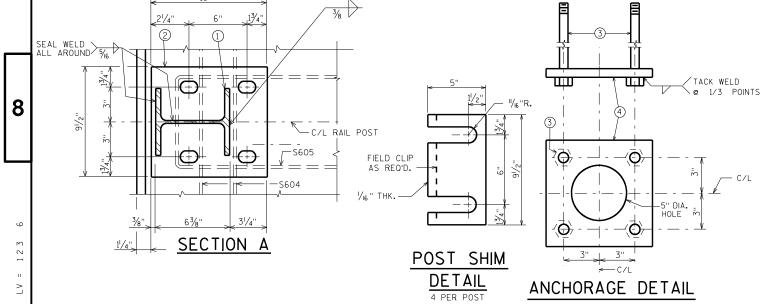
TIE TO TOP MAT OF STEEL.



-NEW POST AND ANCHORAGE ASSEMBLY POSTS #10 & #11.
ALL OTHER POSTS TO REMAIN.

### SECTION THRU RAILING ON DECK

(SHOWN AT NEW POSTS #10 + #11)



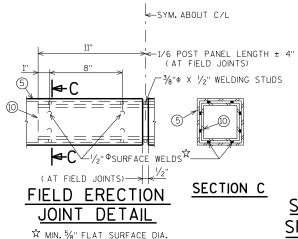
NEW STRUCTURAL TUBING RAILS FROM EXISTING FIELD ERECTION JOINT JUST WEST OF POST #6 TO EXISTING FIELD ERECTION JOINT JUST WEST OF POST #14. APPROXIMATE LENGTH = 64'±.

TOUCH UP WELD AREAS AS REQUIRED WITH ZRC COLD GALVANIZING COMPOUND OR EQUIVALENT.

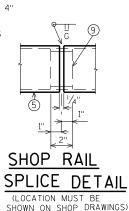
STUDS 6 MAY BE FIELD WELDED TO MATCH LOCATION OF HOLES IN EXISTING POSTS.

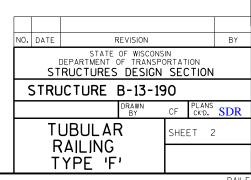
FIELD VERIFY ALL DIMENSIONS.

REMOVE GALVANIZING AS NEEDED TO FIELD WELD.



PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.





RAILE

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# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

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