DECEMBER 2018 ORDER OF SHEETS

Typical Sections and Details 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. 9 Computer Earthwork Data Section No. 9 Cross Sections

TOTAL SHEETS = 142

Section No. 1 Section No. 2

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 6999-03-70

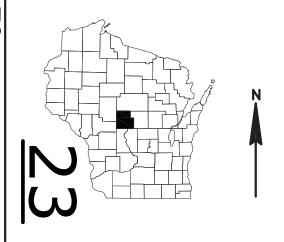
C WISCONSIN RAPIDS, SECOND AVE SO

GAYNOR AVENUE TO STH 13

STH 54

WOOD COUNTY

STATE PROJECT NUMBER 6999-03-70

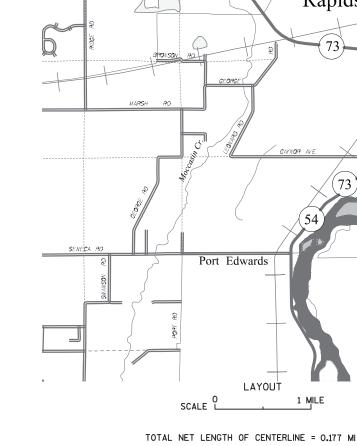


DESIGN DESIGNATION

A.A.D.T. 2018 = 9,250 A.A.D.T. = 10,150 D₂H₂V₂ = 1,390 = 59/41 = 9.8% DESIGN SPEED = 35 MPH = 2,600,000

CONVENTIONAL SYMBOLS

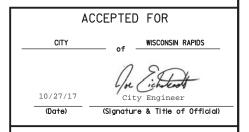
PROFILE GRADE LINE CORPORATE LIMITS ORIGINAL GROUND PROPERTY LINE MARSH OR ROCK PROFILE LOT LINE (To be noted as such) LIMITED HIGHWAY EASEMENT SPECIAL DITCH EXISTING RIGHT OF WAY GRADE ELEVATION PROPOSED OR NEW R/W LINE SLOPE INTERCEPT CULVERT (Profile View) UTILITIES REFERENCE LINE ELECTRIC EXISTING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



Wisconsin Rapids **END PROJECT** 210+59.00 13) - S-71-33 **BEGIN PROJECT** 201+25.00 X=724,818.82 Port Edwards T-22-N LAYOUT SCALE L

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

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





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



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY EMCS, INC. Surveyor EMCS, INC. WENDY ARNESON CHERYL SIMON MIKE KRETSCHMER

APPROVED FOR THE DEPARTMENT DATE: 10/30/2017 Ε

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.

AS-BUILTS USED FOR PLAN DEVELOPMENT

PROJECT NO: U6903(1), CONSTRUCTION YEAR: 1954
PROJECT NO: T6903, CONSTRUCTION YEAR: 1955
PROJECT NO: 6999-06-06, CONSTRUCTION YEAR: 1979
PROJECT NO: 6999-05-61, CONSTRUCTION YEAR: 2000
PROJECT NO: 6390-00-72, CONSTRUCTION YEAR: 2004

ORDER OF SECTION 2 SHEETS

PROJECT OVERVIEW

TYPICAL SECTIONS

CONSTRUCTION DETAILS

PAVING DETAILS

EROSION CONTROL

PERMANENT SIGNING & PAVEMENT MARKING

LIGHTING

TRAFFIC CONTROL

UTILITIES

CHARTER COMMUNICATIONS

JESSE GRUNNY
503 EAST IVES STREET, #316
MARSHFIELD, WI 54449
(715) 651-5605
JESSE.GRUNY@CHARTER.COM

CITY OF WISCONSIN RAPIDS

(SEWER)
JOE EICHSTEADT
444 WEST GRAND AVE
WISCONSIN RAPIDS, WI 54495
(715) 421-8251
JEICHSTEADT@WIRAPIDS.ORG

CITY OF WISCONSIN RAPIDS WATER WORKS AND LIGHT

(WATER & ELECTRIC)
TODD WEILER
221 16TH STREET SOUTH
WISCONSIN RAPIDS, WI 54495
(715) 422-9013
TODD.WEILER@WRWWLC.COM

WE ENERGIES (GAS/PETROLEUM)

SEND ALL WE ENERGIES CORRESPONDENCE TO:

NICOLE SMULLEN
333 W EVERETTE STREET,
A299
MILWAUKEE, WI 53203
(414) 221-5617
NICOLE.SMULLEN@WECENERGYGROUP.COM

WE ENERGIES PROJECT
CONSTRUCTION FIELD CONTACT:

RYAN MIENTKE 1921 8TH STREET SOUTH WISCONSIN RAPIDS, WI 54494 OFFICE: (715) 421-7249 CELL: (715) 421-9293 RYAN.MIENTKE@WE-ENERGIES.COM CITY OF WISCONSIN RAPIDS
(TRAFFIC SIGNALS)
JOE EICHSTEADT
444 WEST GRAND AVE
WISCONSIN RAPIDS, WI 54495
(T15) 421-8251
JEICHSTEADT@WIRAPIDS.ORG

CITY OF WISCONSIN RAPIDS WATER WORKS AND LIGHT

WATER WORKS AND LIGHT (WATER) TODD WEILER 221 16TH STREET SOUTH WISCONSIN RAPIDS, WI 54495 (715) 422-9013 TODD.WEILER@WRWWLC.COM

SOLARUS (COMMUNICATIONS) RICK SCHMUTZER 440 EAST GRAND AVE WISCONSIN RAPIDS, WI 54494 (715) 421-8193 SCHMUTZ@SOLARUS.NET



OTHER CONTACTS

DNR LIAISON
BRAD BETTHAUSER
473 GRIFFITH DRIVE
WISCONSIN RAPIDS, WI 54494
(715) 421-7851
BRAD.BETTHAESER@WISCONSIN.GOV

PROJECT N0:6999-03-70 HWY:STH 54

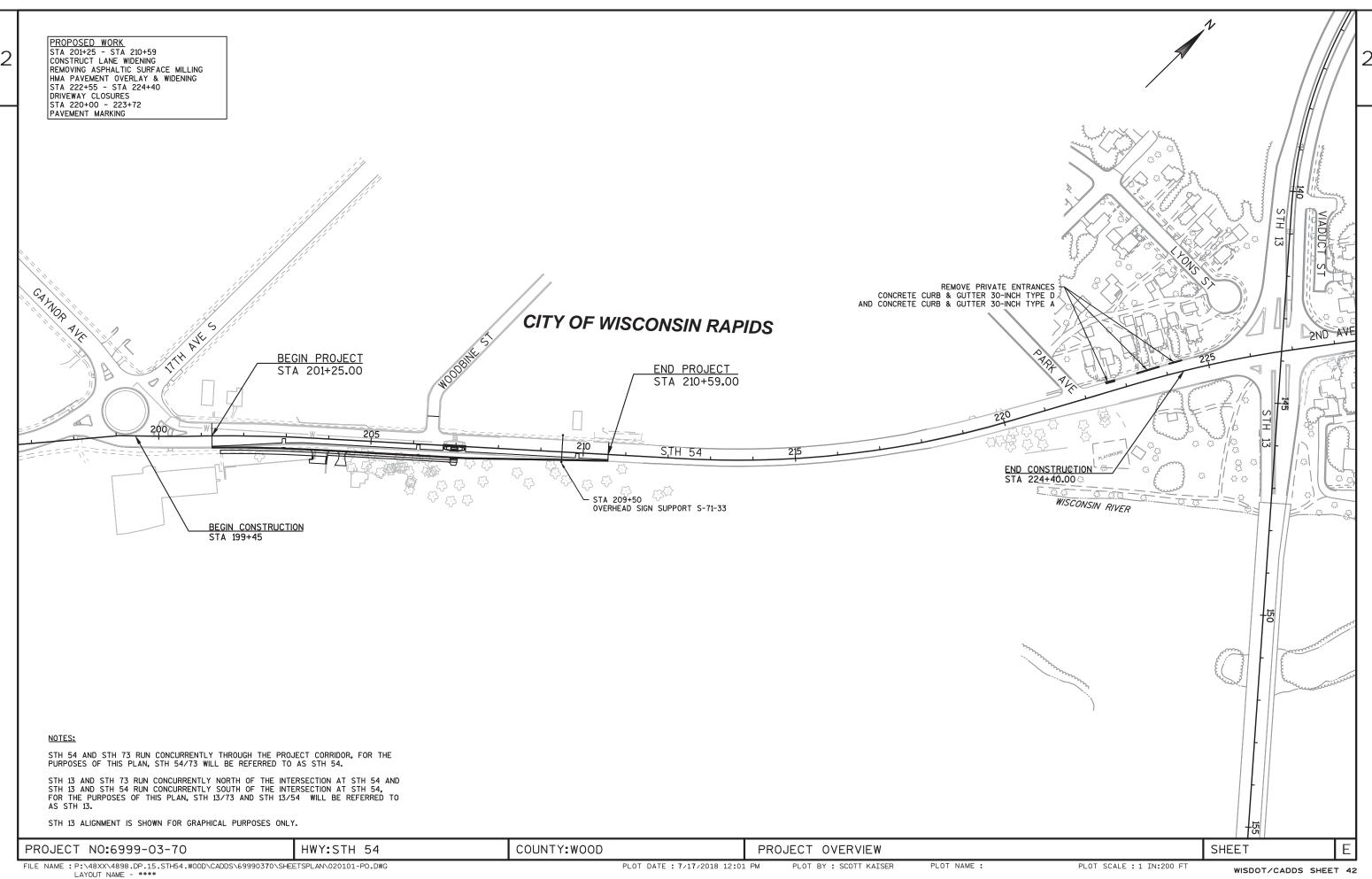
COUNTY:WOOD

GENERAL NOTES

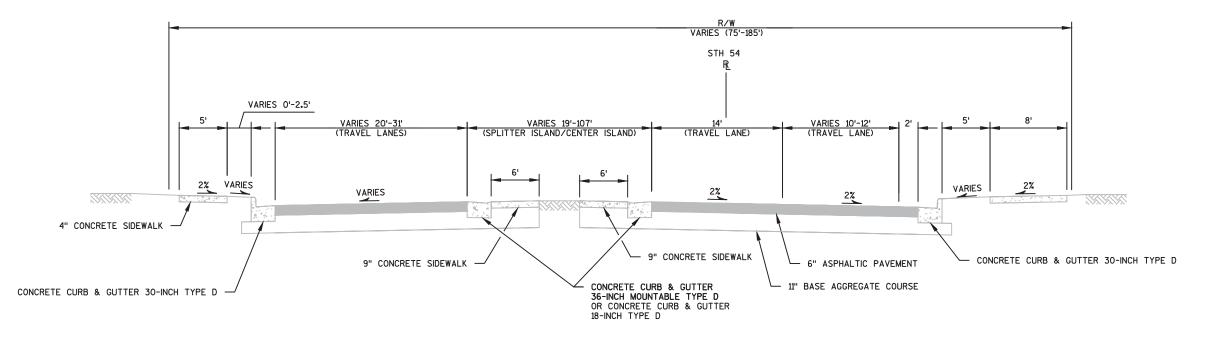
PLOT BY : SCOTT KAISER

SHEET

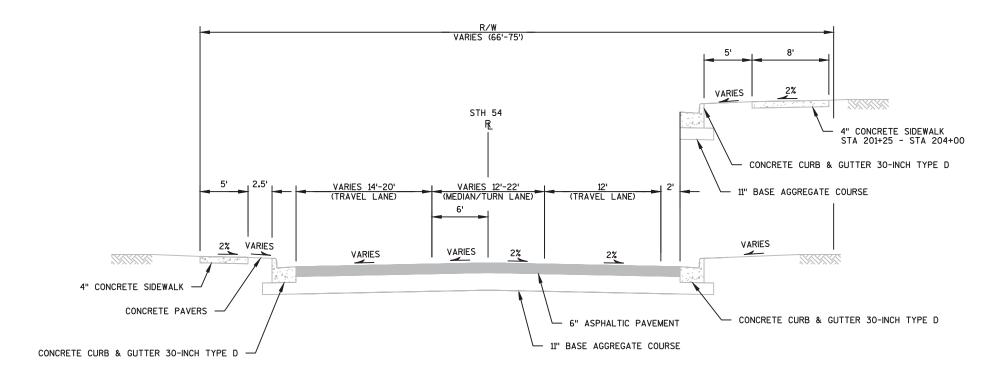
-T |







TYPICAL EXISTING SECTION STH 54 ROUNDABOUT STA 199+45 - STA 200+67



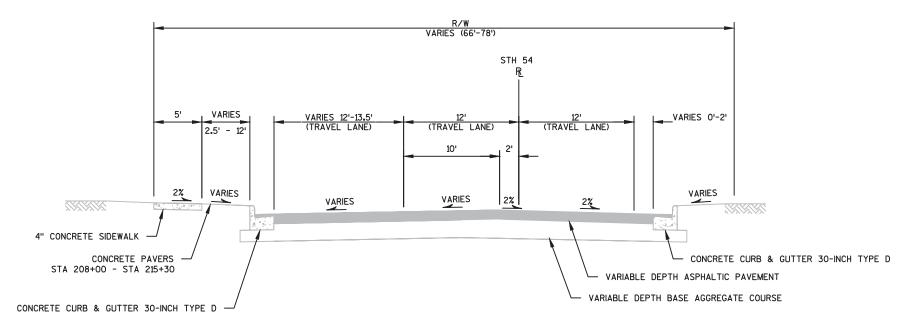
TYPICAL EXISTING SECTION
STH 54
STA 200+67 - STA 208+00

PROJECT NO:6999-03-70 HWY:STH 54 COUNTY:WOOD TYPICAL SECTIONS SHEET **E**

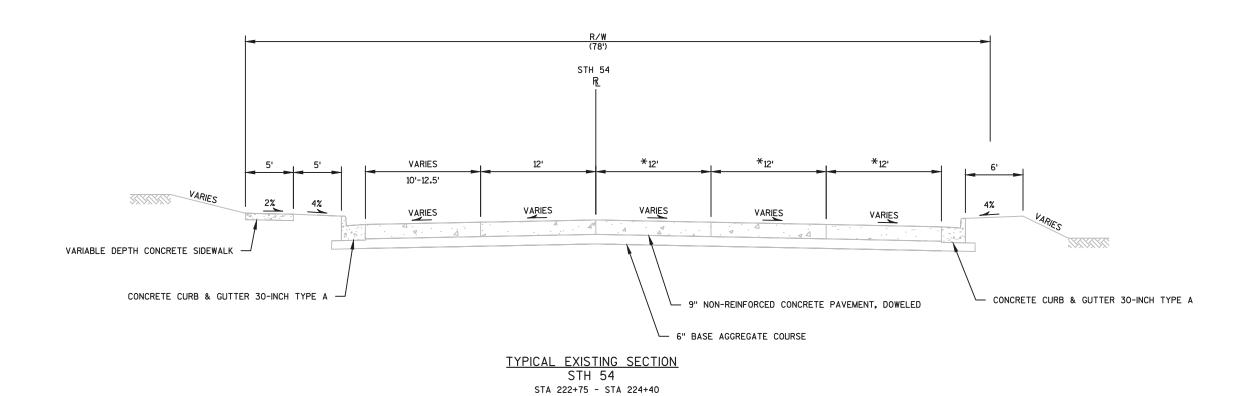
PLOT NAME :

2





TYPICAL EXISTING SECTION STH 54 STA 208+00 - STA 222+75



FILE NAME : P:\48XX\4898.DP.15.STH54.WOOD\CADDS\69990370\SHEETSPLAN\020301-TS.DWG LAYOUT NAME - ####

 $^{f imes}$ Lane widths vary in the turn lane transition area.

PROJECT NO:6999-03-70

<u>NOTE</u>

PLOT DATE : 5/17/2017 2:24 PM

COUNTY:WOOD

PLOT BY : SCOTT KAISER

TYPICAL SECTIONS

PLOT NAME :

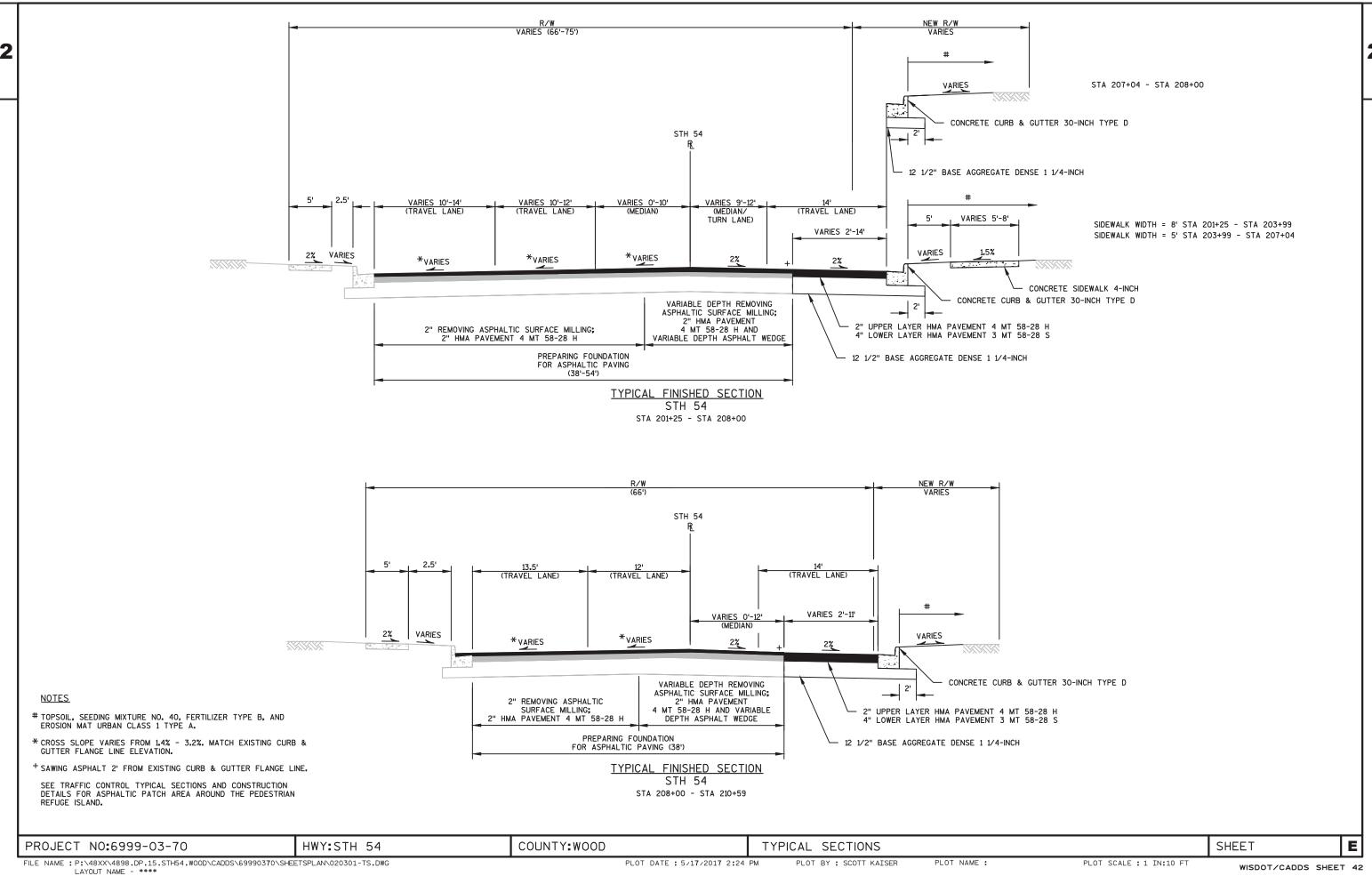
PLOT SCALE : 1 IN:10 FT

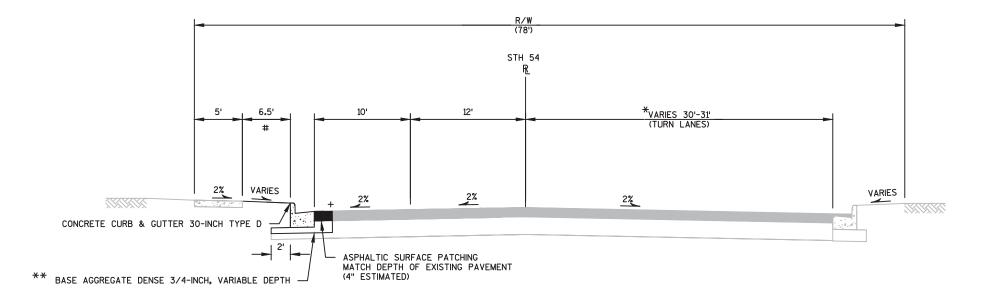
WISDOT/CADDS SHEET 42

SHEET

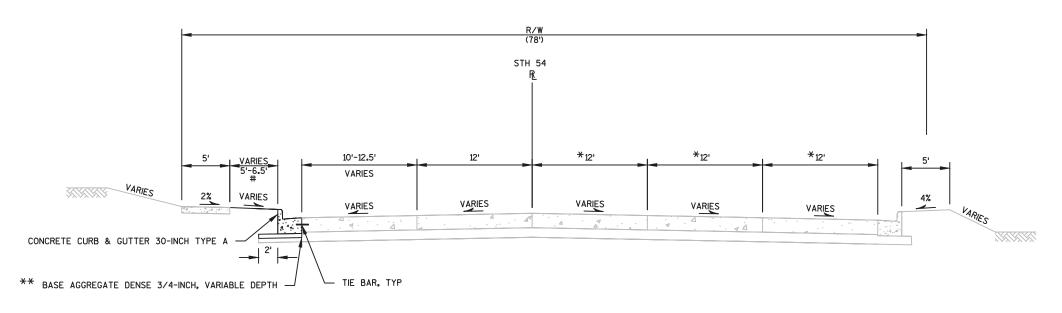
E

HWY:STH 54





TYPICAL FINISHED SECTION STH 54 STA 222+55 - STA 222+75



<u>NOTES</u>

*LANE WIDTHS VARY IN THE TURN LANE TRANSITION AREA

** PLACE BASE AGGREGATE DENSE 3/4-INCH UNDER THE PROPOSED CONCRETE CURB & GUTTER 30-INCH TYPE A AND TYPE D AS NEEDED

TOPSOIL, SEEDING MIXTURE NO. 40, FERTILIZER TYPE B, AND EROSION MAT URBAN CLASS 1 TYPE A

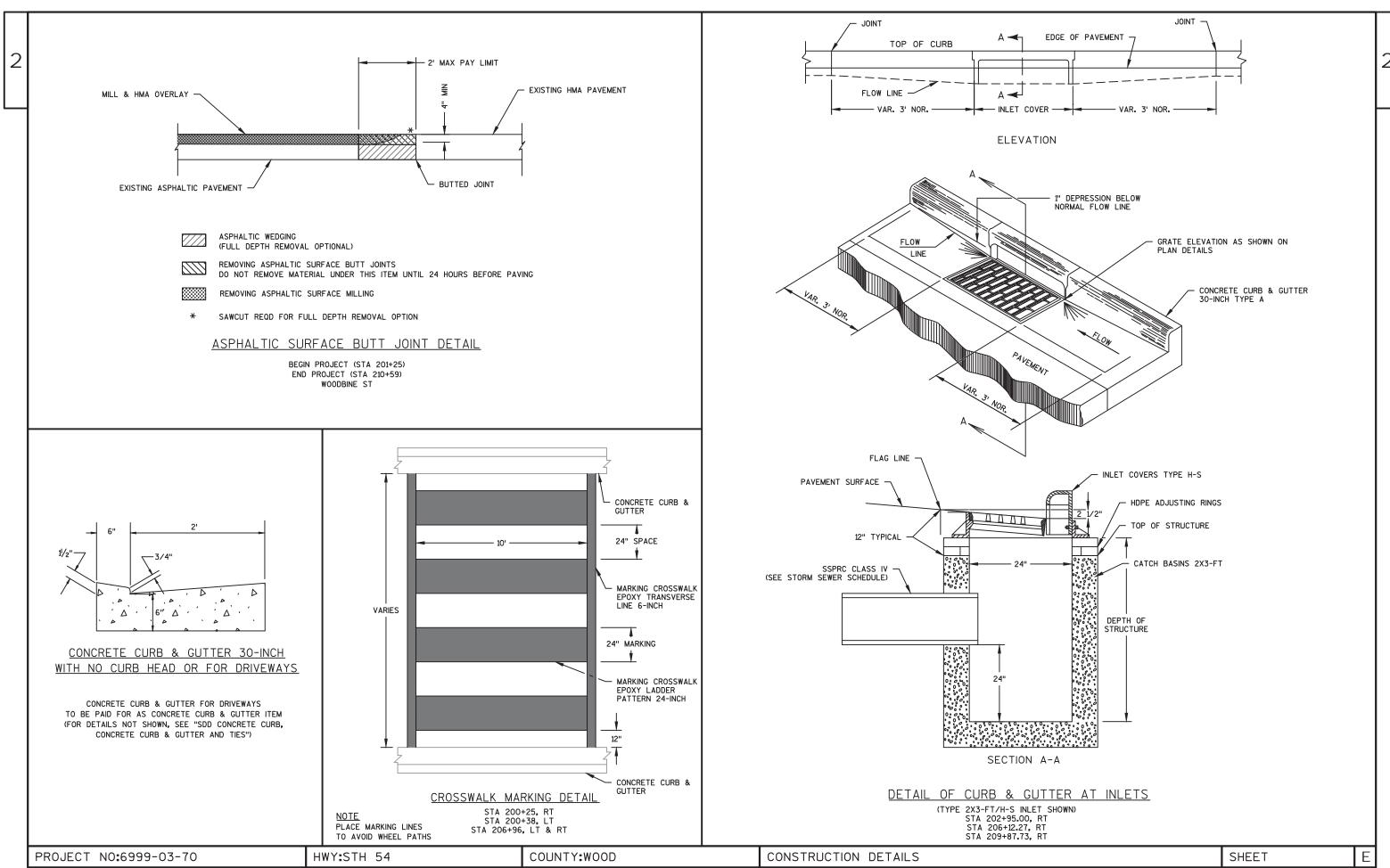
+SAWING ASPHALT 2' FROM EXISTING CURB & GUTTER FLANGE LINE

TYPICAL FINISHED SECTION

STH 54

STA 223+31 - STA 223+86 STA 224+10 - STA 224+40

PROJECT NO:6999-03-70 COUNTY:WOOD SHEET E HWY:STH 54 TYPICAL SECTIONS PLOT BY : SCOTT KAISER PLOT NAME :



STH 54 © SAWING ASPHALT EDGE OF TRAVEL LANE BACK OF CURB AND GUTTER

PLAN VIEW

ASPHALTIC SURFACE PATCHING, 6-INCH (TYP.) PLACE PRIOR TO REMOVING ASPHALTIC SURFACE MILLING EXISTING ASPHALTIC PAVEMENT EXISTING ASPHALTIC PAVEMENT EXISTING RING (SUPPLIED BY OTHERS IF REQ'D) EXISTING AGGREGATE COURSE BASE AGGREGATE DENSE 1 1/4-INCH (MATCH EXISTING DEPTH) ADJUSTING MANHOLE COVERS AND SANITARY SEWER MANHOLE COVERS

LEGEND

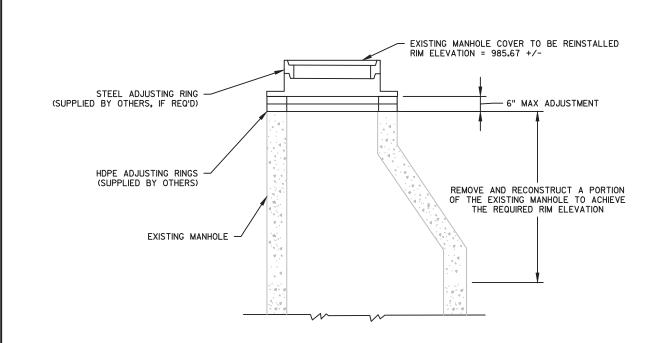
STA 201+25 - STA 210+59

SAWCUT REQD

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	Α		В		С		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	.16 .30	.22 .38	.12	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24	.19 .25	.22	.26 .33	.20	.23 .30	.30 .37	.20 .27	.25 .32	.30
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30
PAVEMENT:		•				•			•			•
ASPHALT						.7095						
CONCRETE .8095												
BRICK .7080												
DRIVES, WALKS .7585												
ROOFS .7595												
GRAVEL ROADS, SHOULDERS .4060												

TOTAL PROJECT AREA = 1.82 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.7 ACRES



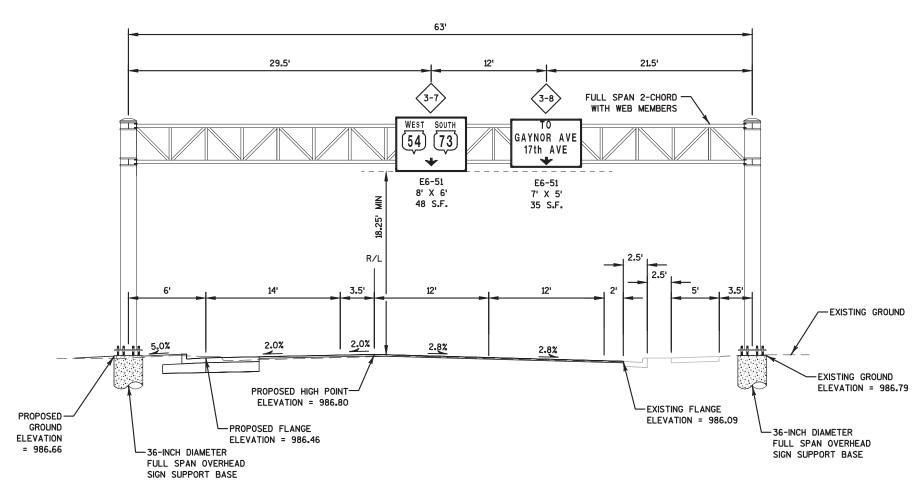
RECONSTRUCTING SANITARY MANHOLE DETAIL

STA 206+29, RT

PROJECT NO:6999-03-70 HWY:STH 54 COUNTY:WOOD CONSTRUCTION DETAILS SHEET E

GENERAL NOTES

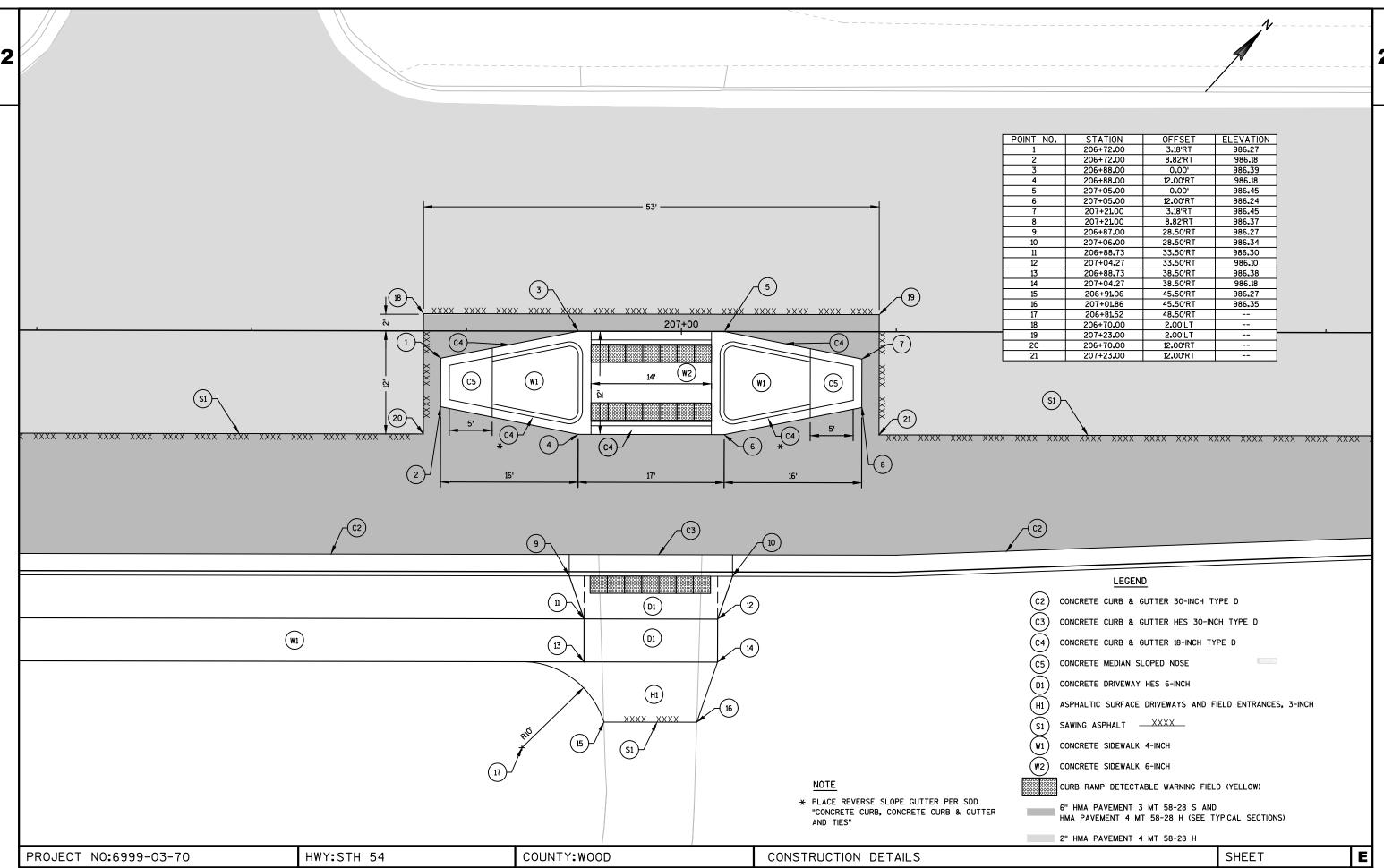
- 1) DRAWINGS NOT TO SCALE
- 2) DESIGN NEW OVERHEAD SIGN SUPPORTS ACCORDING TO THE AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES, AND TRAFFIC SIGNALS.", 6TH EDITION AND INTERIM REVISIONS.
 - FATIGUE LOADS ARE NOT APPLIED
- 3) PROVIDE AN IDENTIFICATION PLAQUE FOR THE OVERHEAD SIGN SUPPORTS, AS SPECIFIED IN STANDARD SPEC 641.3.1.4 AND SHOWN IN SDD "STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES, OVERHEAD SIGN SUPPORTS AND TRAFFIC SIGNALS". THE IDENTIFICATION PLAQUE IS TO BE CONSIDERED INCIDENTAL TO THE BID ITEM "OVERHEAD SIGN SUPPORT".
- 4) SIZE THE ANCHOR ROD/TEMPLATE ASSEMBLY TO FIT WITHIN THE BAR CAGE OF THE FOOTING BASE SHOWN IN THE CONTRACT PLANS IN ADDITION TO MEETING ALL APPLICABLE DESIGN REQUIREMENTS FOR THE DESIGN OF THE UPRIGHT BASE CONNECTION. SEE SDD "36-INCH DIAMETER FULL SPAN OVERHEAD SIGN SUPPORT BASE" FOR ADDITIONAL INFORMATION.
- 5) DESIGN THE STRUCTURE BASE PLATE CONNECTION TO ACCOMMODATE A MINIMUM OF SIX (6) ANCHOR RODS.
- 6) PROVIDE DESIGN CALCULATIONS.
- 7) SIGNS SHALL BE INSTALLED ON THE OVERHEAD SIGN SUPPORT AT THE TIME OF ERECTION.



OVERHEAD SIGN SUPPORT DETAIL

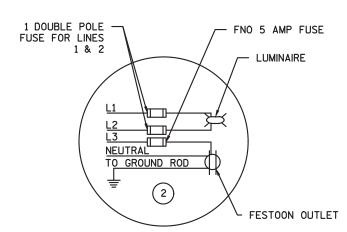
S-71-33 STA 209+50 STH 54 (VIEW LOOKING DOWN STATION)

PROJECT NO:6999-03-70 HWY:STH 54 COUNTY:WOOD CONSTRUCTION DETAIL SHEET E

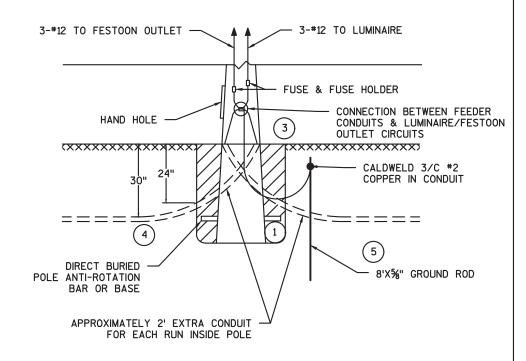


SERVICE EQUIPMENT ONE LINE DIAGRAM

CONDUIT ENTRANCE DETAIL NOT TO SCALE



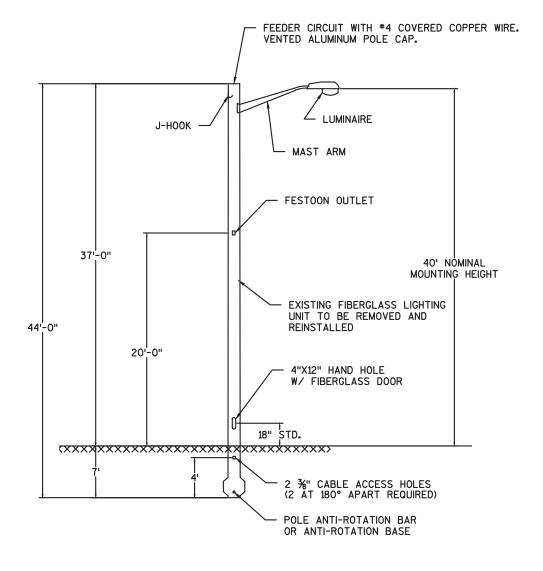
LUMINAIRE 240V FESTOON 120V TO GROUND



- 1 ELECTRICAL CONTRACTOR TO REINSTALL FIBERGLASS POLES PER SPECIFICATIONS, POLES TO BE DIRECT BURIED 6'0" (OR TO MANUFACTURERS RECOMMENDATION) IN FIRM SOIL. POLE TO BE LEVELED AND TAMPED WITH WASHED GRAVEL OR DECOMPOSED GRANITE.
- 2 ELECTRICAL CONTRACTOR TO FURNISH AND INSTALL 3-*12 COPPER CONDUCTORS FROM MAIN LINE TO FESTOON OUTLET AND 3-*12 COPPER CONDUCTORS FROM MAINLINE TO LUMINAIRE. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL WATERTIGHT IN-LINE FUSE HOLDER AND FNO 5 AMP CARTRIDGE FUSE FOR EACH FESTOON OUTLET CIRCUIT AND EACH LIGHTING CIRCUIT. CONNECT THE LIGHT CIRCUIT TO LINES 1 & 2 AND THE FESTOON OUTLET CIRCUIT TO LINE 3.
- 3 ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL TWO COPPER SPLIT BOLT CONNECTORS PER CONNECTION FOR LUMINAIRE CIRCUIT CONNECTION AND FOR FESTOON OUTLET CIRCUIT CONNECTION. WATER PROOF AND INSULATE THE CONNECTIONS WITH ELECTRICAL TAPE.
- 4 ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL MAIN FEEDERS IN RIGID PVC CONDUIT, PER SPECIFICATIONS.
- 5 ELECTRICAL CONTRACTOR TO SUPPLY AND INSTALL ONE 8'X%"
 COPPER CLAD GROUND ROD PER POLE. CONNECT GROUND ROD TO
 NEUTRAL CONDUCTOR OF THE FEEDER CIRCUIT WITH *6 BARE
 COPPER WIRE.

GENERAL NOTES

- 1. 4" X 12" REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) 1/4" X 3/4" 20 TPI HEX HEAD STAINLESS STEEL BOLTS.
- 2. GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 %" HOLE IN POLE SHAFT FOR WIRING.
- 3. REINSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH 1 (ONE) ½" X ¾" TPI STAINLESS STEEL, HEX HEAD BOLT.



REMOVE AND REINSTALL STREET LIGHT ASSEMBLY DETAIL

NOT TO SCALE

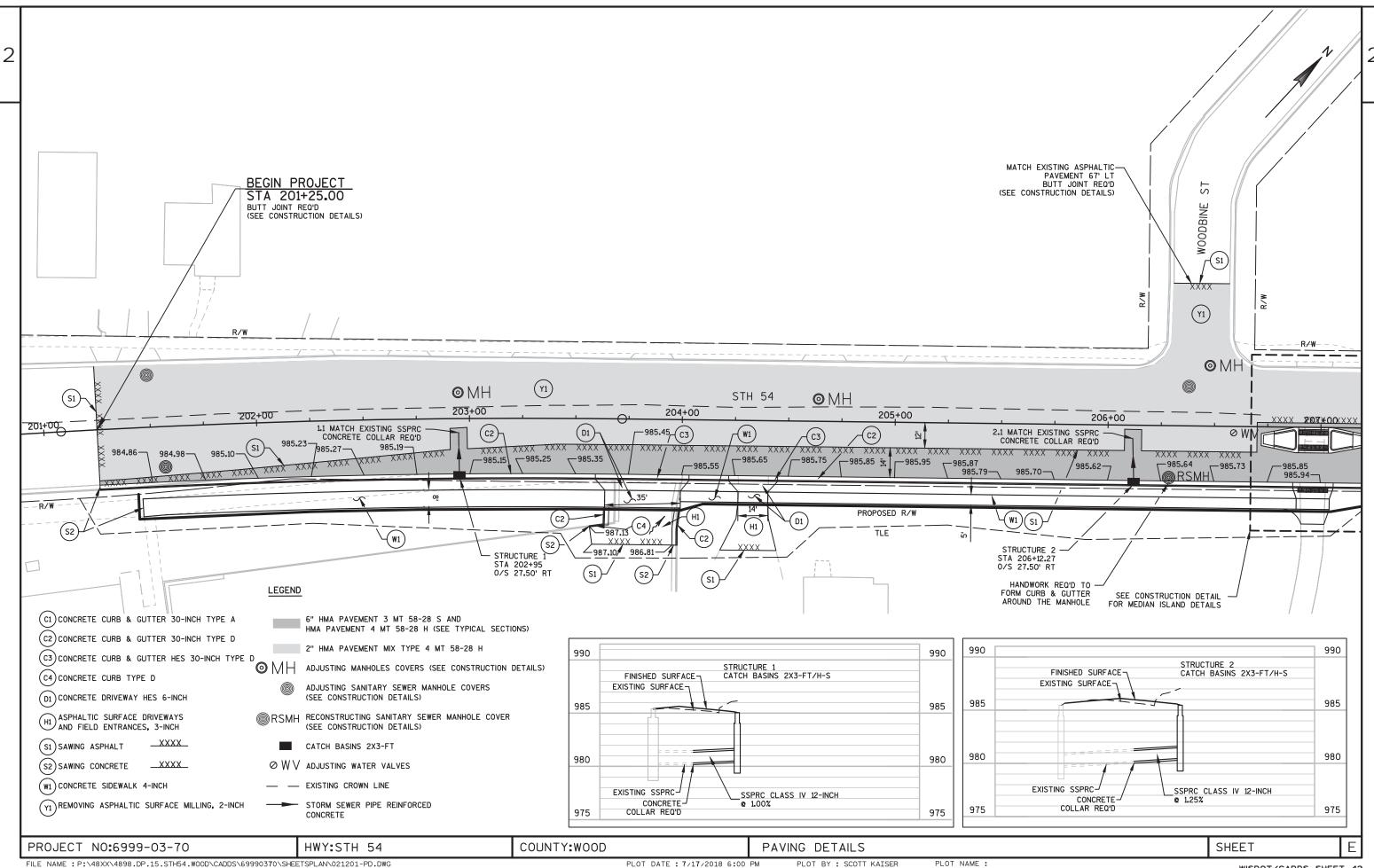
PROJECT NO:6999-03-70 HWY:STH 54

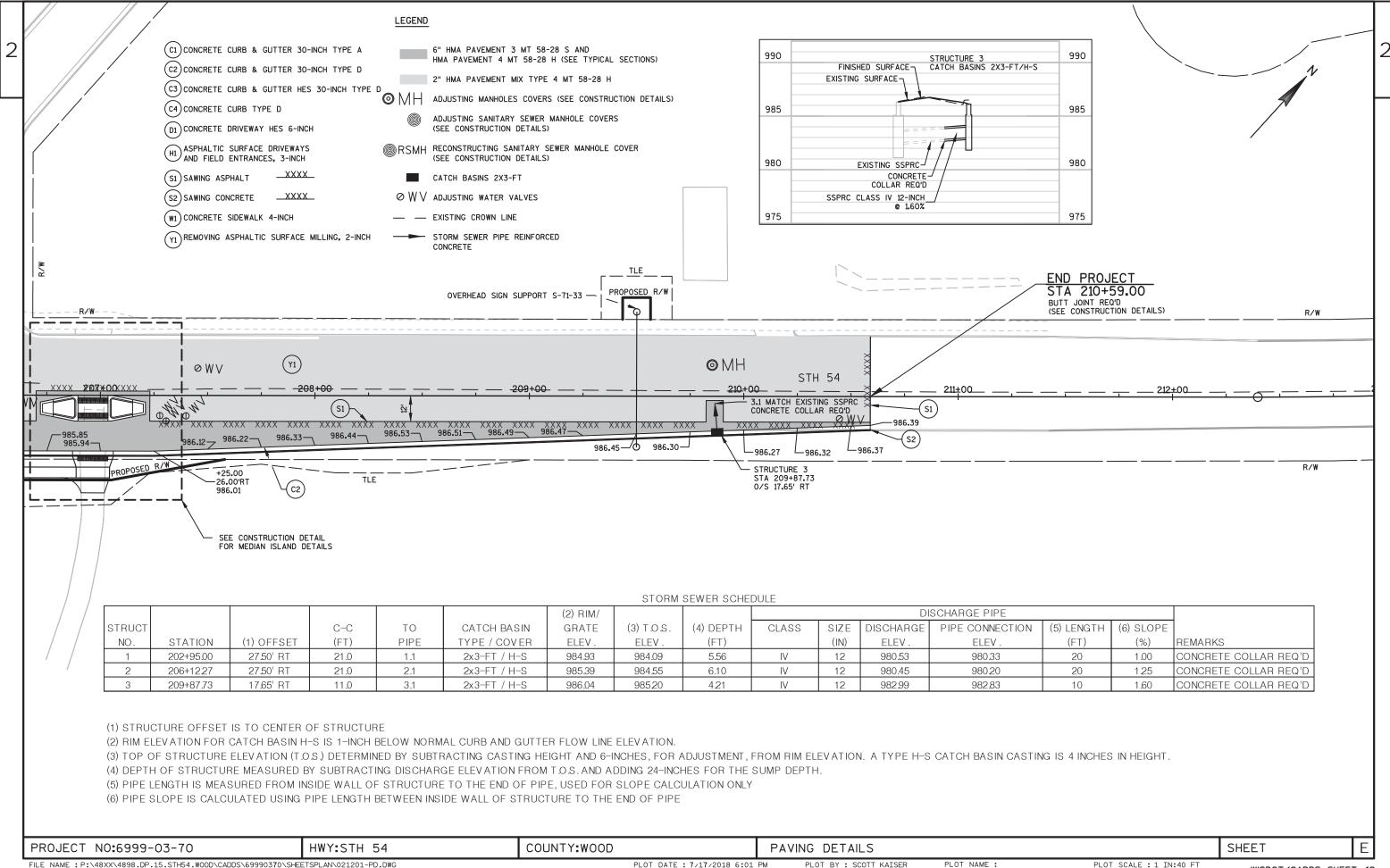
COUNTY: WOOD

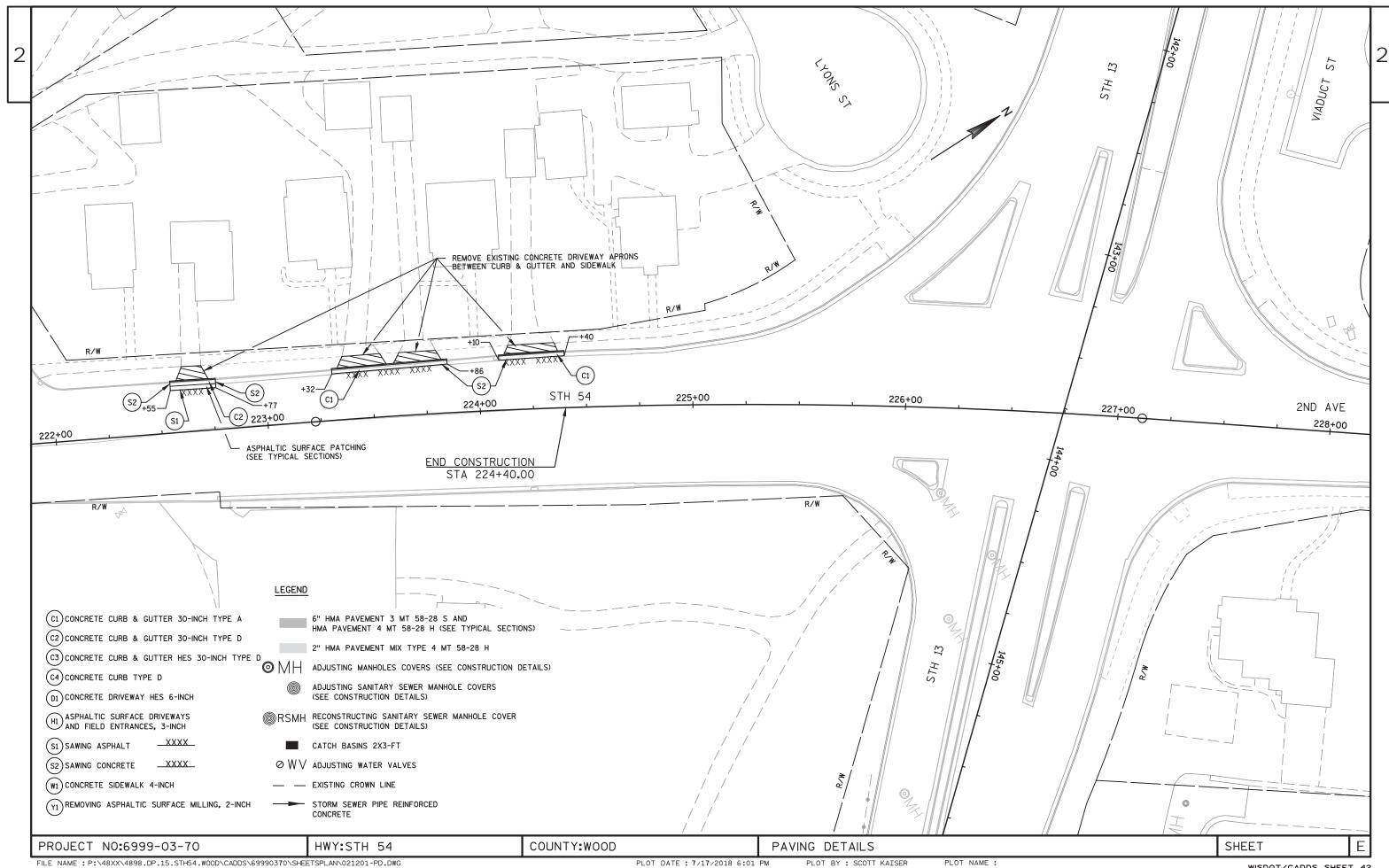
CONSTRUCTION DETAIL

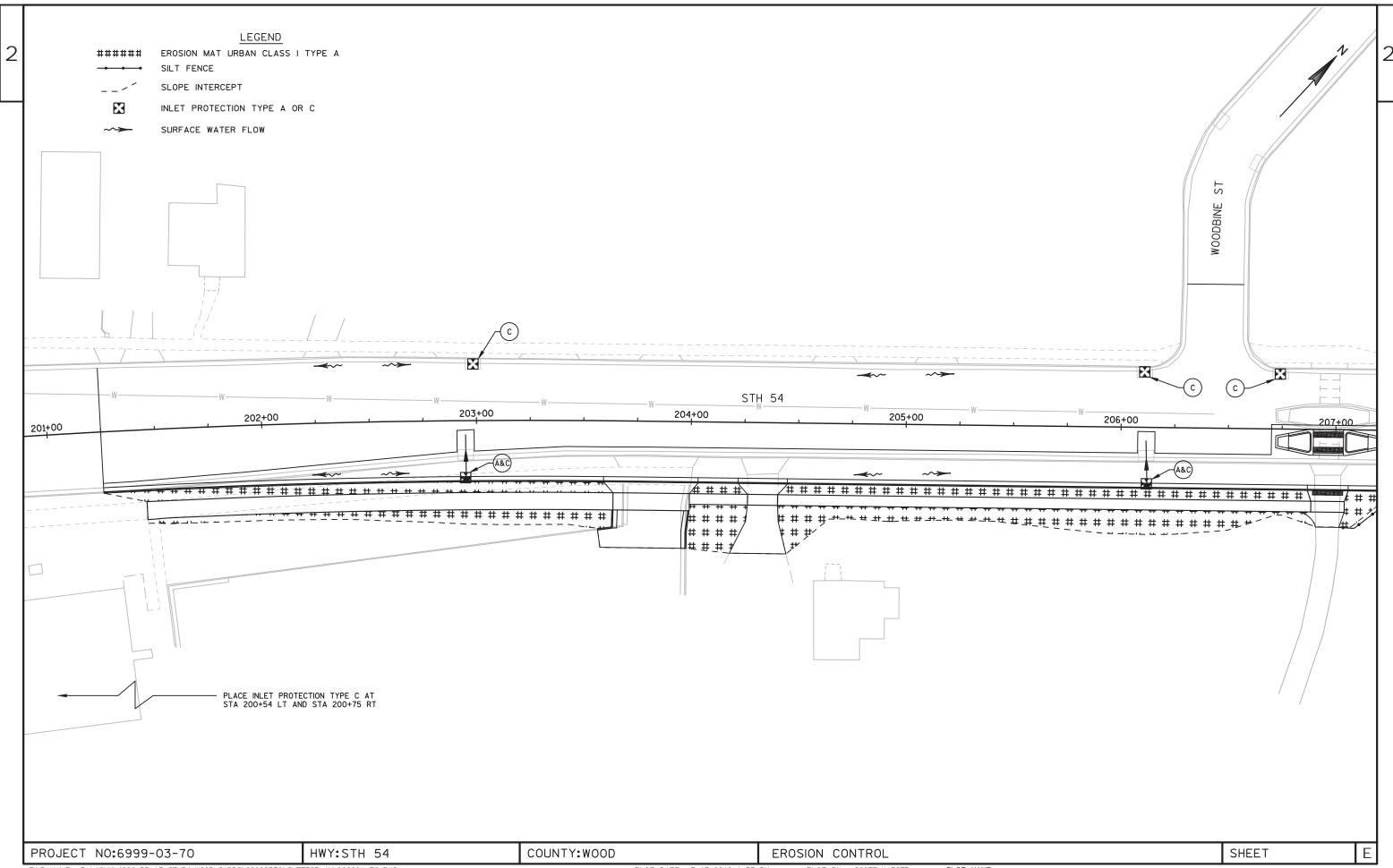
PLOT BY : KL ENGINEERING

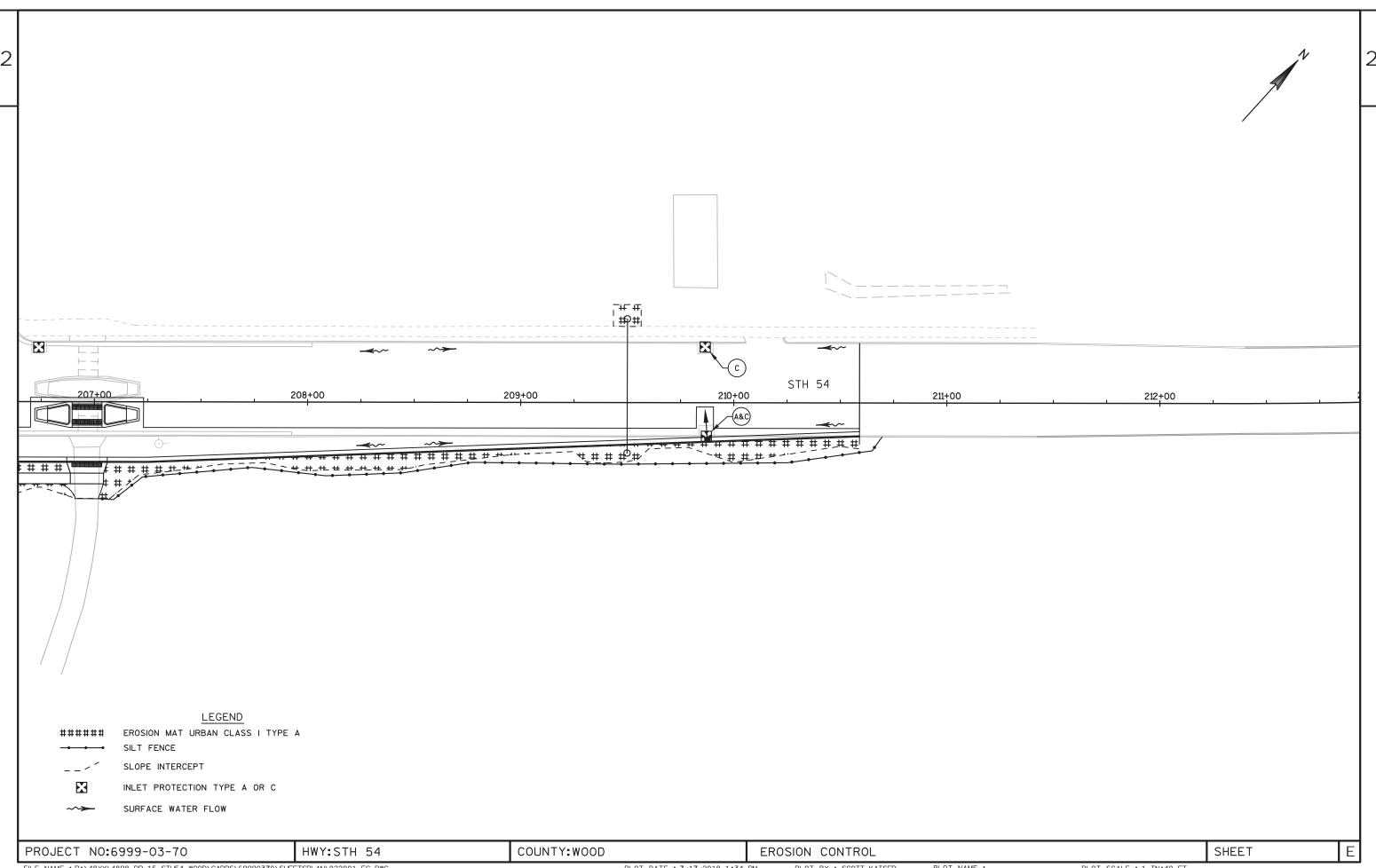
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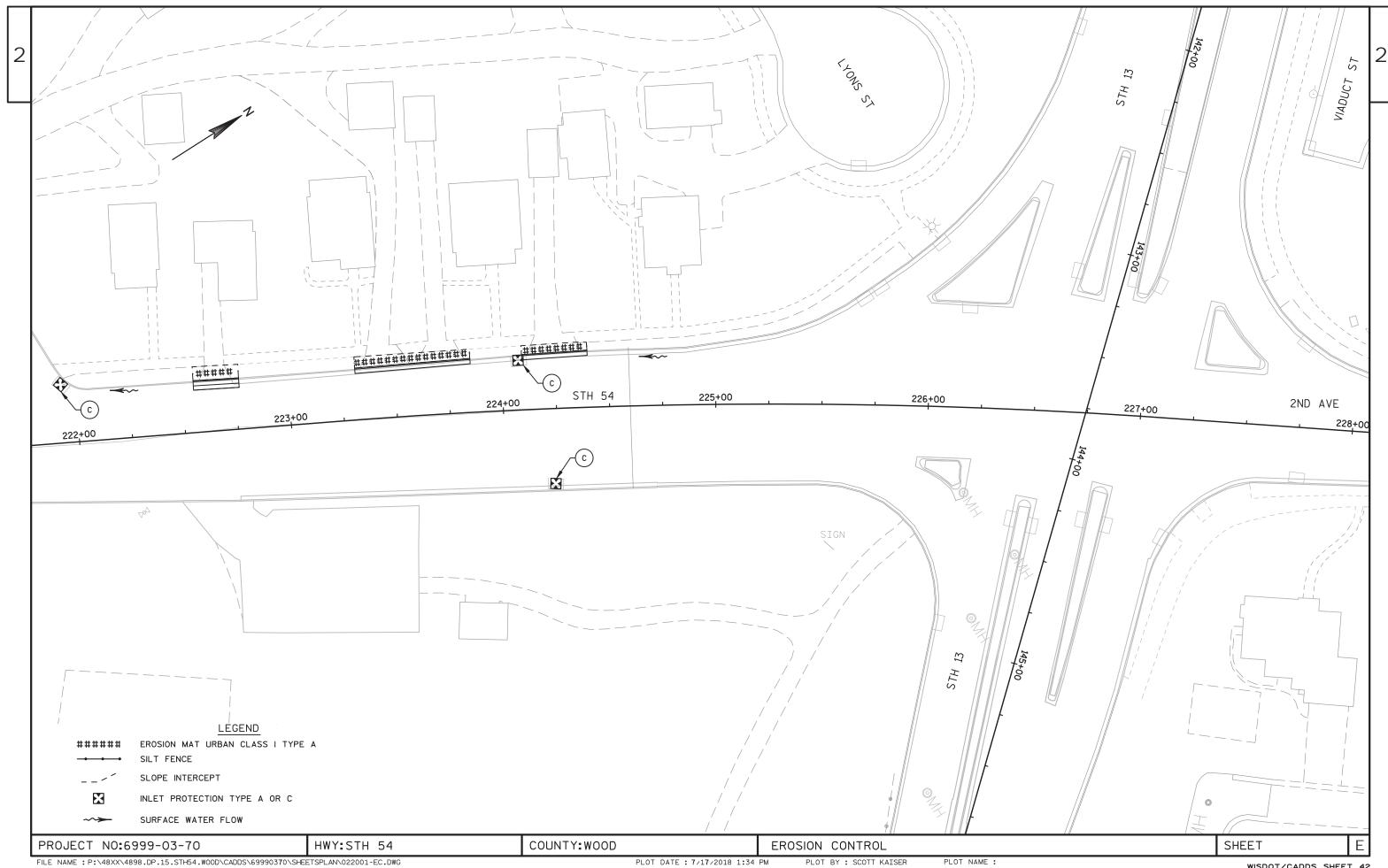


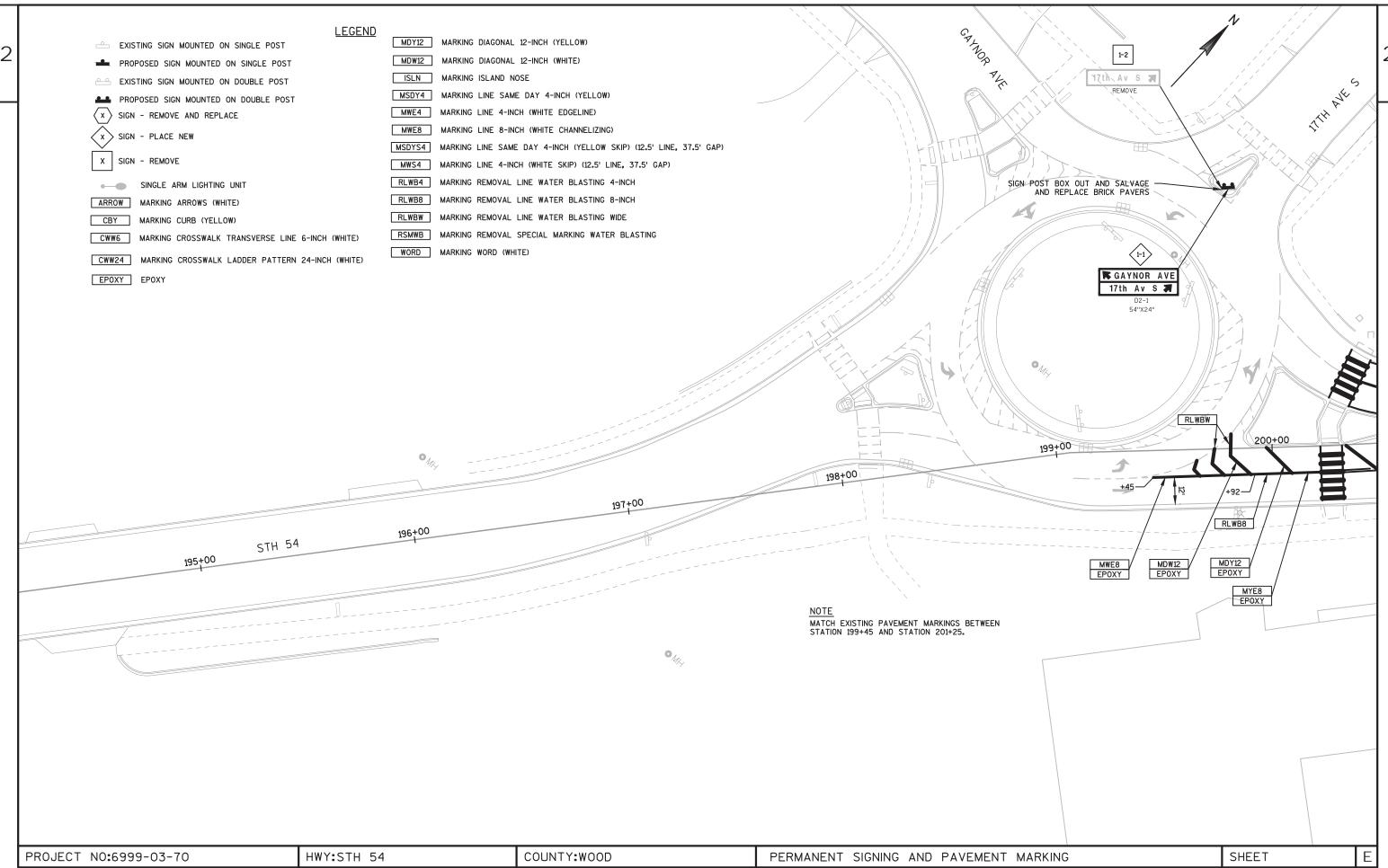


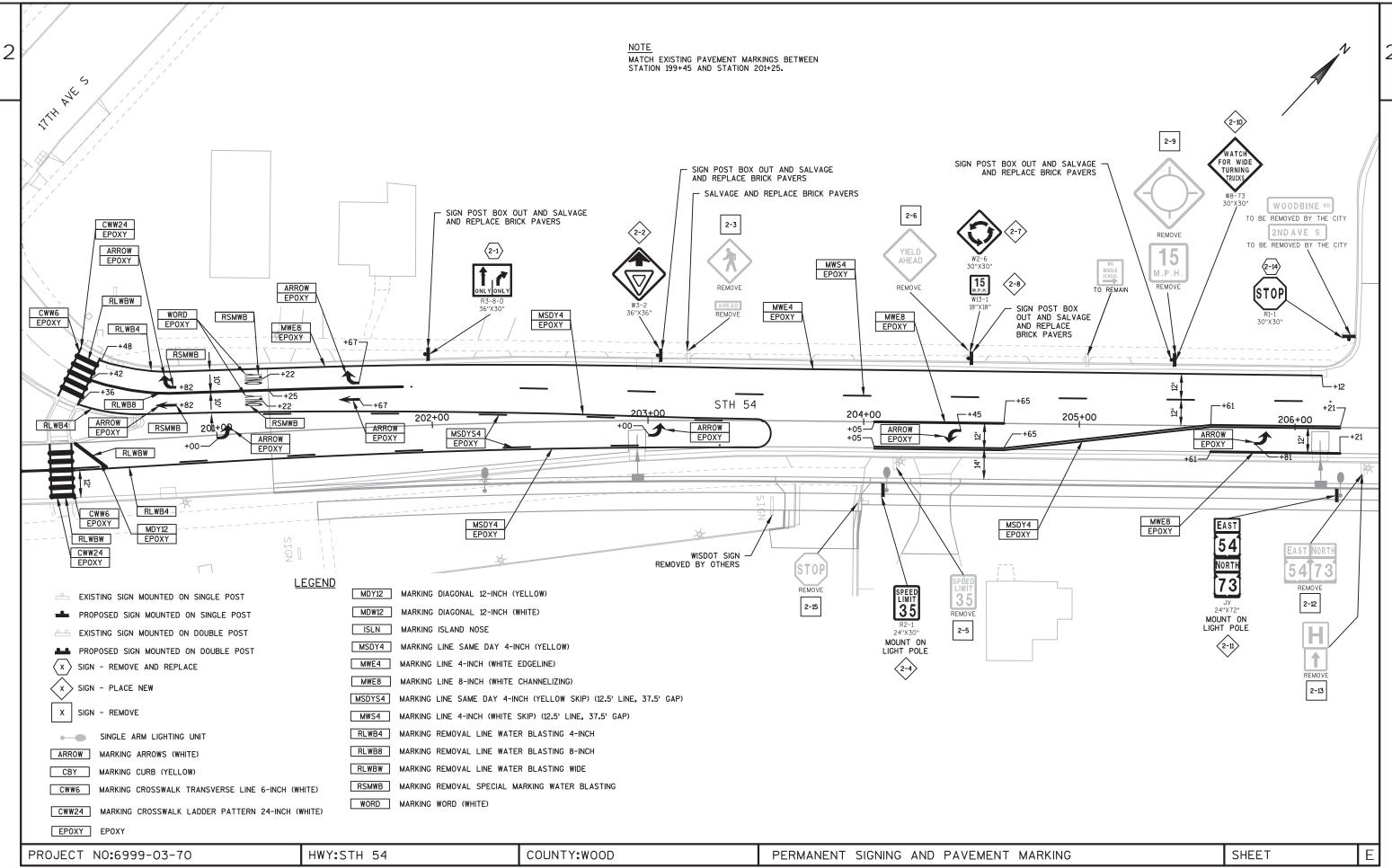


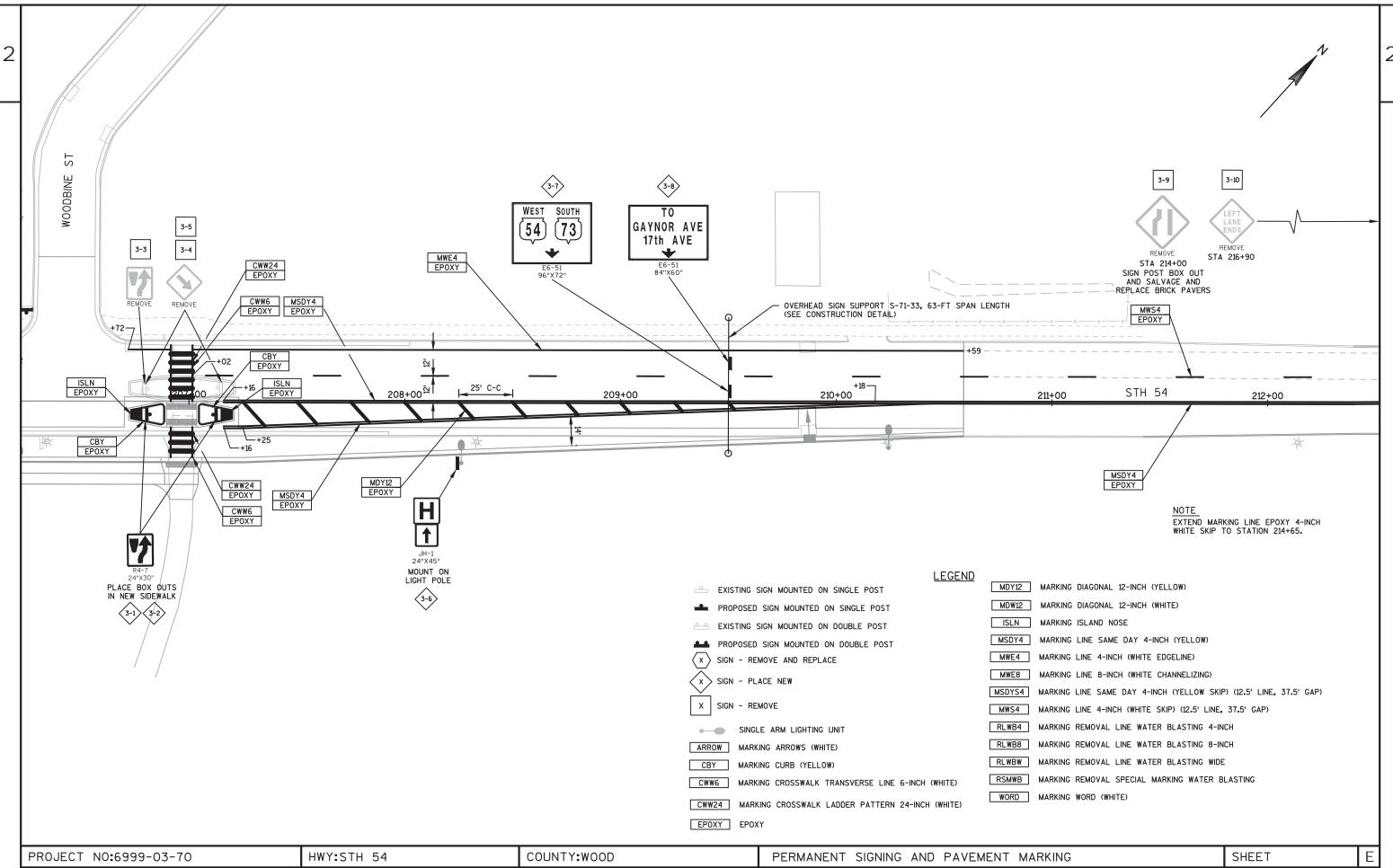


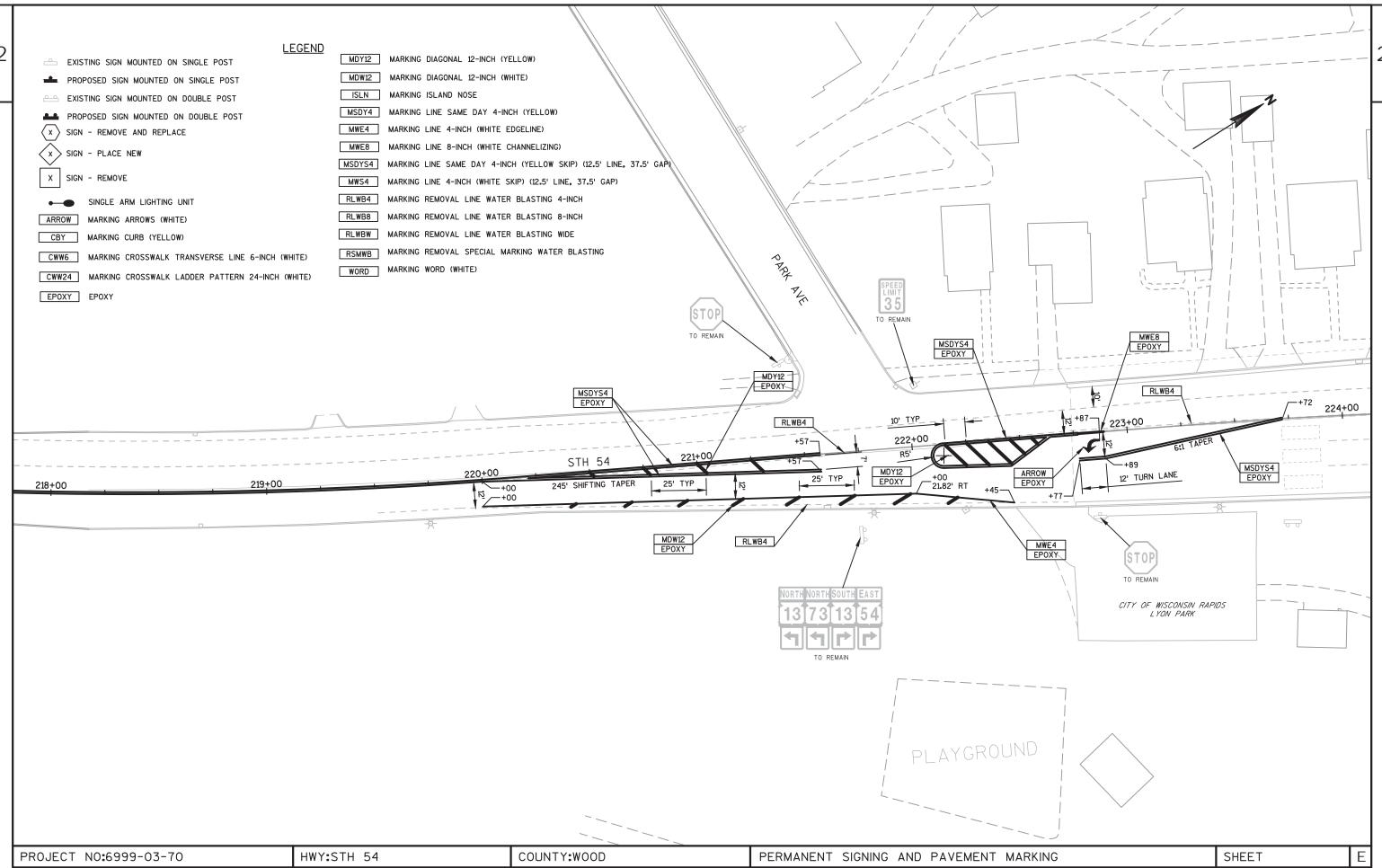


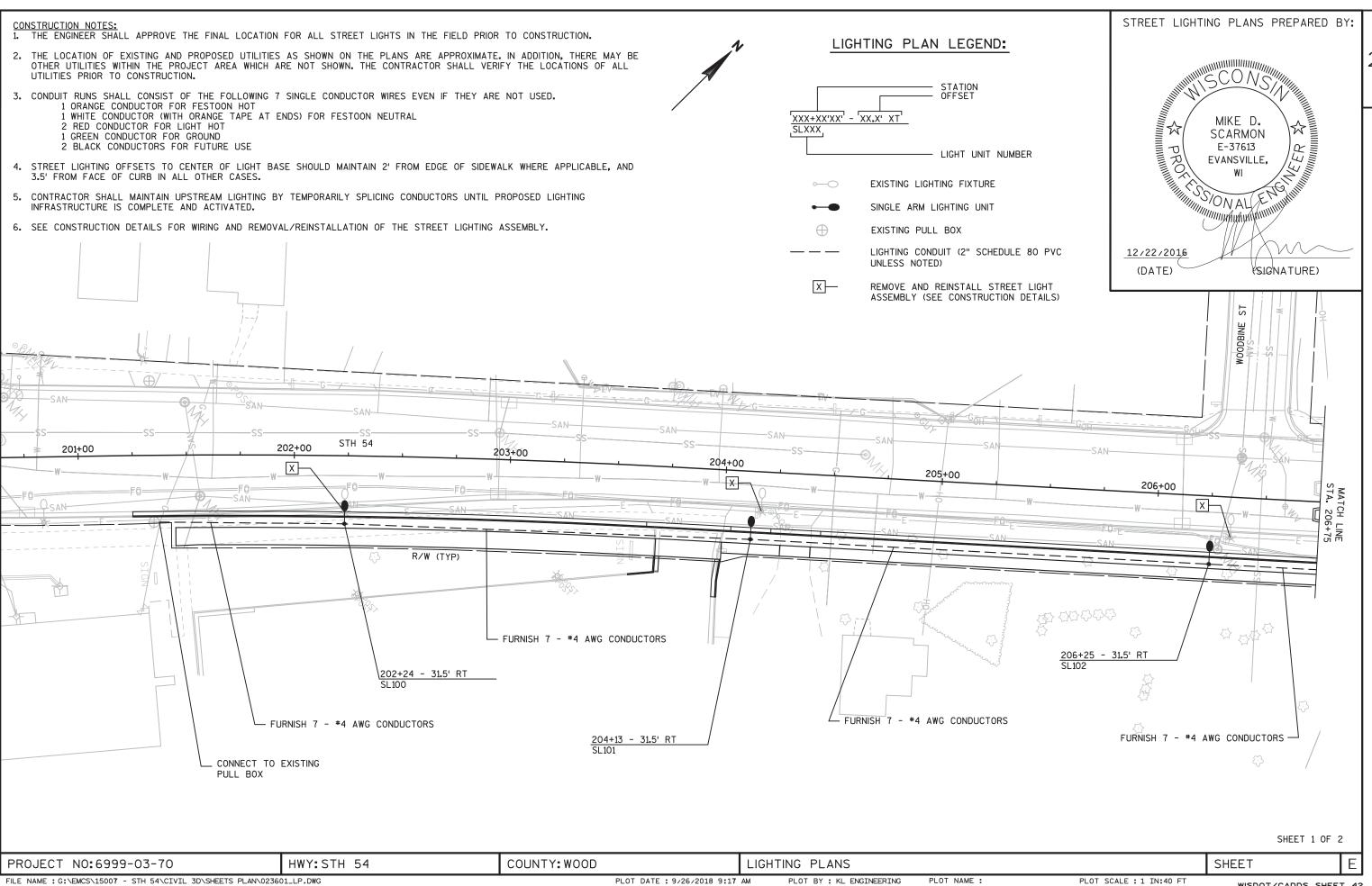


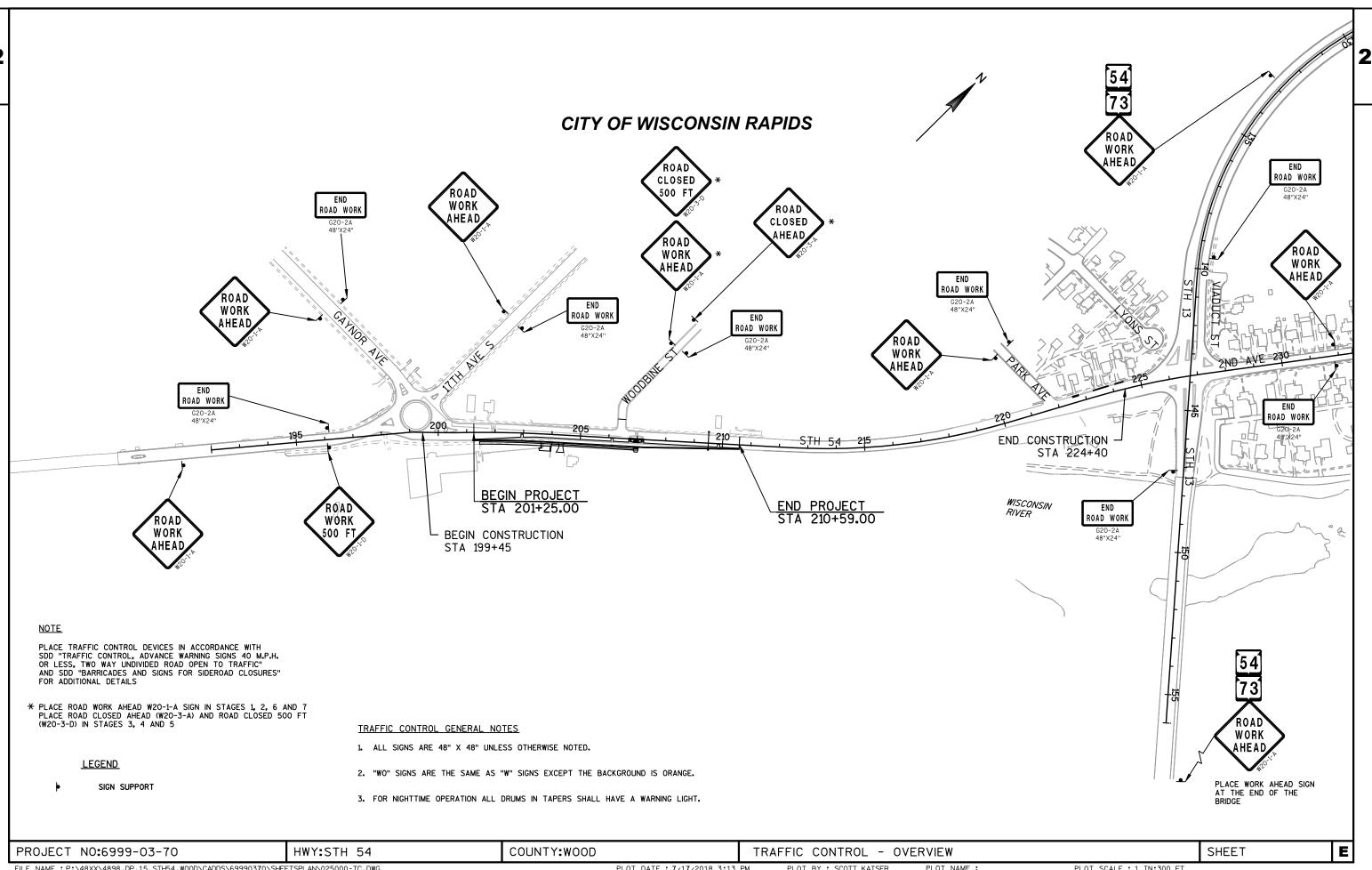




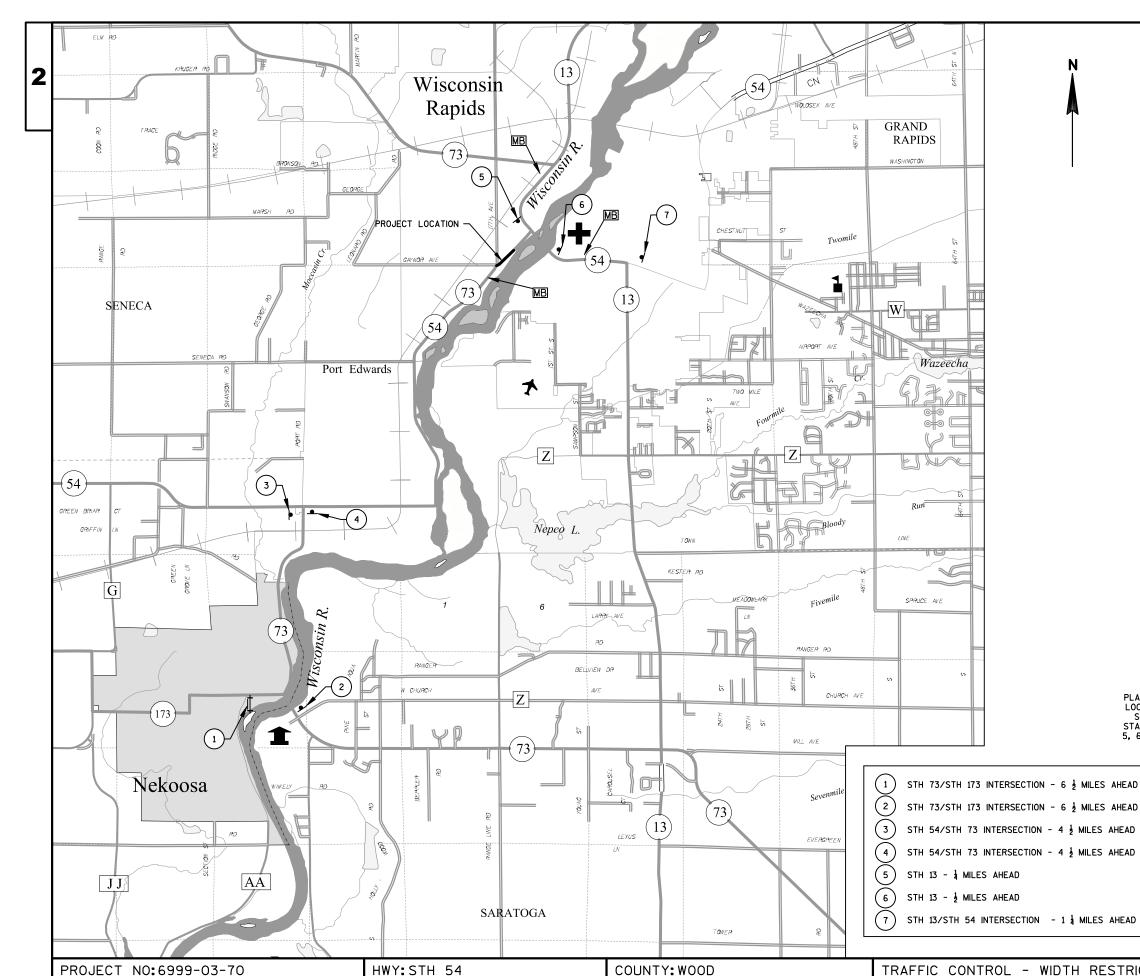












POST THE WIDTH RESTRICTION ADVANCED WARNING SIGNS AT THE LOCATIONS PROVIDED

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

* PLACED SIGN M1-6 WHEN ASSEMBLY IS MOUNTED ON ALL ROADWAYS OTHER THAN STH 54 AND STH 73

ADJUST TRAFFIC CONTROL SIGNS PCMS MESSAGE AS NEEDED BASED ON CONSTRUCTION SCHEDULE.

CONSIDER GEOMETRICS WHEN LOCATING TRAFFIC CONTROL SIGNS PCMS SO THE DRIVER HAS A CLEAR VIEW OF THE SIGN FOR A MINIMUM OF 500 FEET IN FRONT OF THE MESSAGE SIGN. PLACE TRAFFIC CONTROL SIGNS PCMS AS FAR AWAY FROM LIVE TRAFFIC LANES AS POSSIBLE WITHOUT HAMPERING VISIBILITY.

PLACE TRAFFIC CONTROL SIGNS PCMS AND DISPLAY THE MESSAGE 7 DAYS PRIOR TO THE EXPECTED START OF THE PROPOSED WORK.

LEGEND

SIGN MOUNTED ON BARRICADE

SIGN MOUNTED ON SUPPORT

TRAFFIC CONTROL SIGNS PCMS

XX MILES AHEAD 48"X36"

PLACE ABOVE SIGNS AT ALL LOCATIONS DURING STAGE 1, STAGE 2, STAGE 6 AND STAGE 7 AND AT LOCATIONS 5, 6 AND 7 DURING STAGE 3



XX MILES AHEAD

PLACE ABOVE SIGNS DURING STAGE 3 AT LOCATIONS 1, 2, 3, AND 4

		TRAFFIC CONTROL SI								
			PRIOI CONSTR							
	PCMS SIGN LOCATION	PHASE 1 (2 SEC)								
		STH 13 SB 0.4 MILES SOUTH OF STH 73	WIS54/73 ROADWORK BEGINS	#						
	STH 13 NB O.1 MILE NORTH OF STH 13/STH 54 INTERSECTION	WIS54/73 ROADWORK BEGINS	#							

TRAFFIC CONTROL SIGNS PCMS MESSAGES								
	PRIOF CONSTR		ROLLING CLOSURE OVERHEAD SIGN SUPPORT INSTALLATION					
PCMS SIGN LOCATION	PHASE 1 (2 SEC)	PHASE 2 (2 SEC)	PHASE 1 (2 SEC)	PHASE 2 (2 SEC)				
STH 13 SB 0.4 MILES SOUTH OF STH 73	WIS54/73 ROADWORK BEGINS	# STARTING DATE	TRAFFIC STOPPED WIS54/73	BE PREPARED TO STOP				
STH 13 NB 0.1 MILE NORTH OF STH 13/STH 54 INTERSECTION	WIS54/73 ROADWORK BEGINS	# STARTING DATE	TRAFFIC STOPPED WIS54/73	BE PREPARED TO STOP				
STH 54/STH 73 O.5 MILES SOUTH OF GAYNOR AVENUE	WIS54/73 ROADWORK BEGINS	# STARTING DATE	TRAFFIC STOPPED AHEAD	BE PREPARED TO STOP				

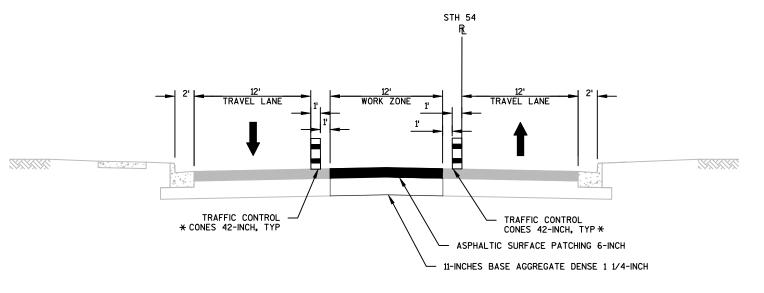
TRAFFIC CONTROL - WIDTH RESTRICTION SIGNING PLOT BY : SCOTT KAISER

HWY:STH 54

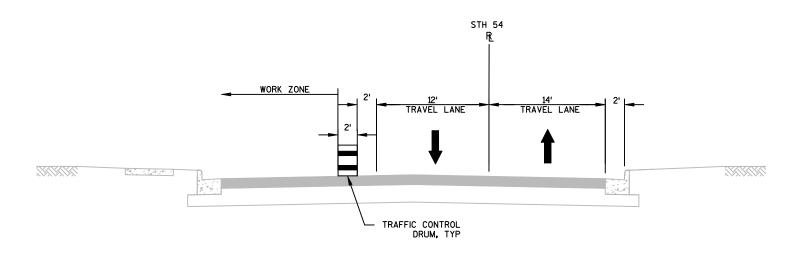
COUNTY: WOOD

SHEET

E



STAGE 1 TYPICAL SECTION STH 54 REMOVE EXISTING PEDESTRIAN REFUGE ISLAND STA 206+71 - STA 207+21



STAGE 2 TYPICAL SECTION STH 54 CONSTRUCT LT OVERHEAD SIGN SUPPORT STA 209+50

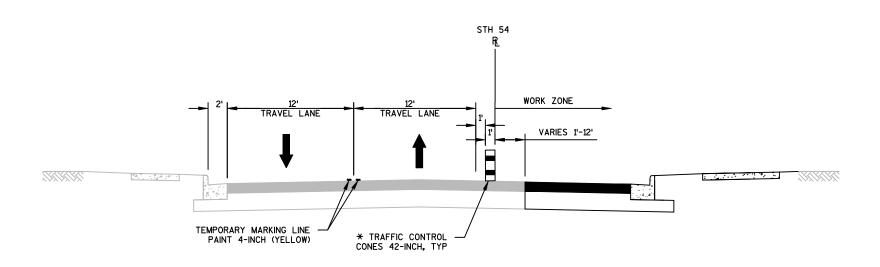
<u>NOTES</u>

PLACE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY", "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" AND "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION".

FLAGGING TO ONE LANE CONDITIONS MAY OCCUR DURING WORKING HOURS.

* ONLY USE TRAFFIC CONTROL DRUMS IN TAPERS.

E PROJECT NO:6999-03-70 HWY:STH 54 COUNTY:WOOD TRAFFIC CONTROL - TYPICAL SECTIONS SHEET PLOT NAME :



STAGE 3 TYPICAL SECTION STH 54

CONSTRUCT PAVEMENT WIDENING, NEW PEDESTRIAN REFUGE ISLAND & RT OVERHEAD SIGN SUPPORT BASE STA 201+25 - STA 210+59

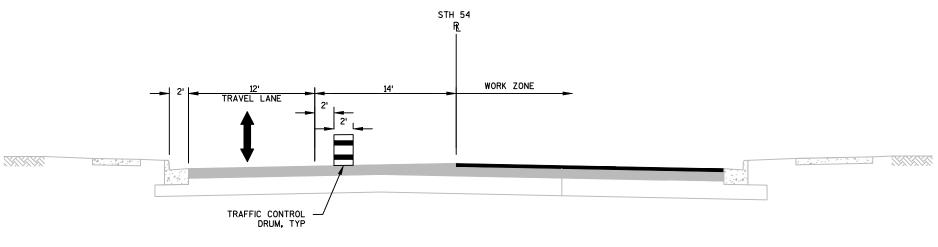
PLACE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY", "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" AND "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION".

FLAGGING TO ONE LANE CONDITIONS MAY OCCUR DURING WORKING HOURS.

* ONLY USE TRAFFIC CONTROL DRUMS IN TAPERS.

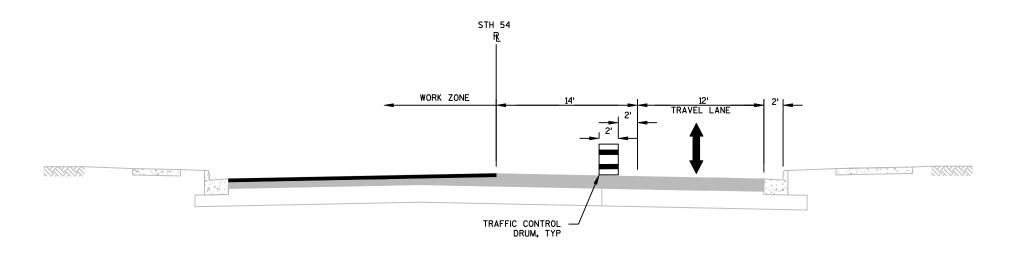
PROJECT NO:6999-03-70 HWY:STH 54 COUNTY:WOOD SHEET E TRAFFIC CONTROL - TYPICAL SECTIONS PLOT BY : SCOTT KAISER





STAGE 4 TYPICAL SECTION STH 54

MILL AND OVERLAY EXISTING PAVEMENT (RT) & CONSTRUCT SURFACE LAYER OF PROPOSED WIDENING (RT) STA 201+25 - STA 210+59



STAGE 5 TYPICAL SECTION STH 54

MILL AND OVERLAY EXISTING PAVEMENT (LT) STA 201+25 - STA 210+59

<u>NOTES</u>

PROJECT NO:6999-03-70

PLACE TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH SDD "TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON FREEWAY/EXPRESSWAY", "TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION" AND "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION".

THERE ARE NO TRAFFIC CONTROL PLAN SHEETS SHOWN FOR STAGE 4 AND STAGE 5. COMPLETE WORK UNDER FLAGGING OPERATIONS.

FILE NAME : P:\48XX\4898.DP.15.STH54.WOOD\CADDS\69990370\SHEETSPLAN\025002-TC.DWG LAYOUT NAME - ####

COUNTY:WOOD

TRAFFIC CONTROL - TYPICAL SECTIONS PLOT BY : SCOTT KAISER

PLOT SCALE : 1 IN:10 FT

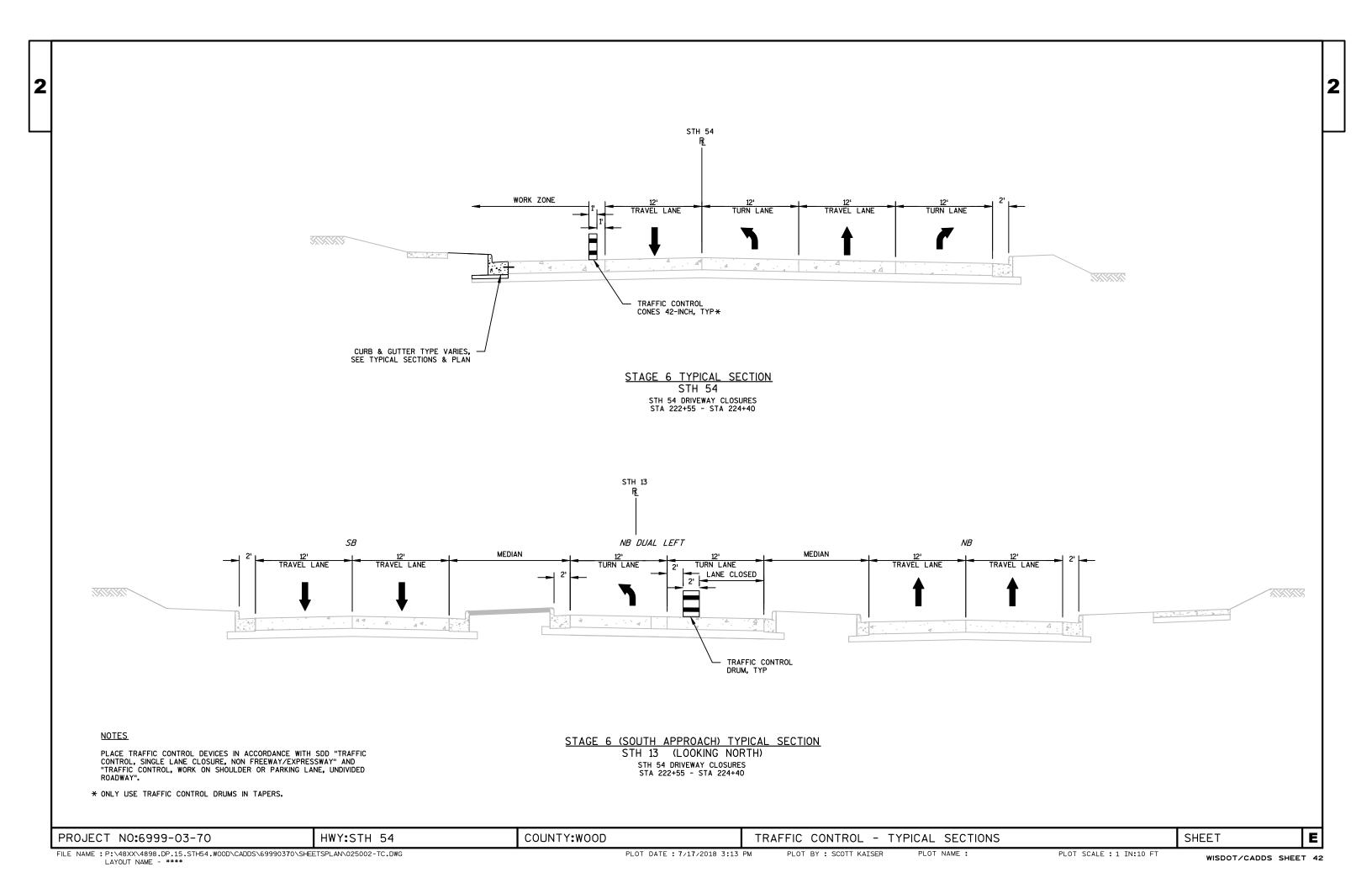
WISDOT/CADDS SHEET 42

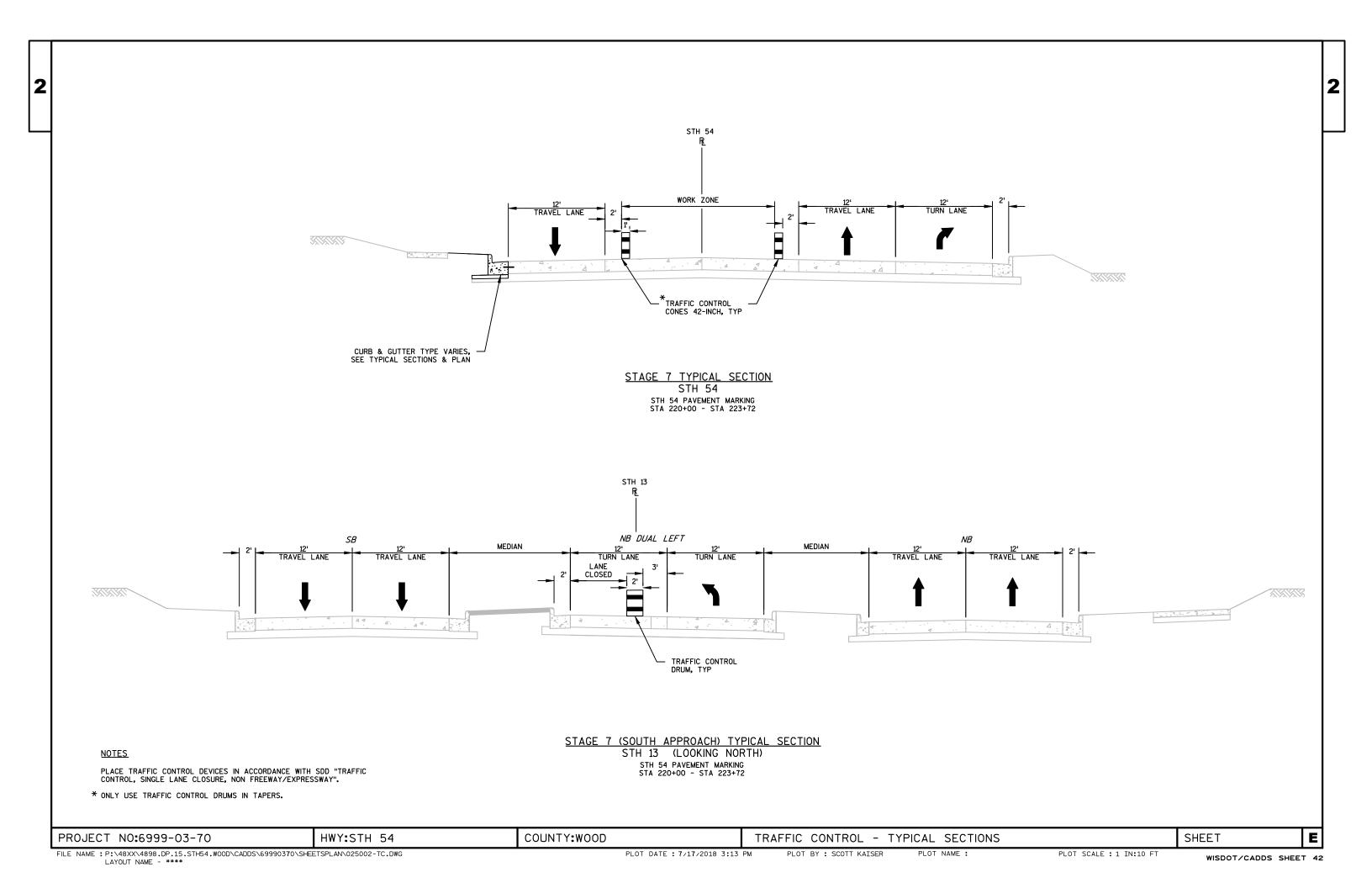
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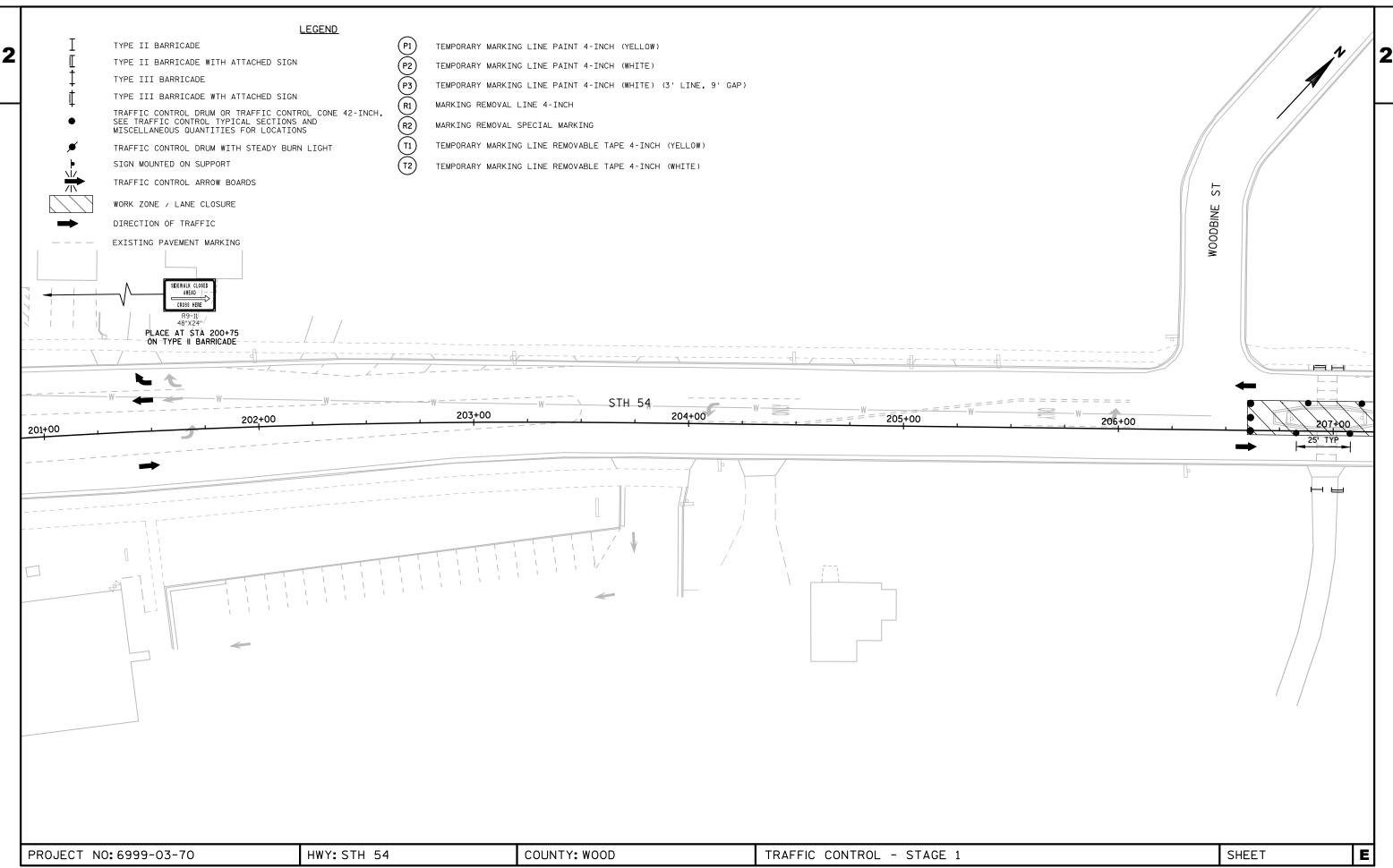
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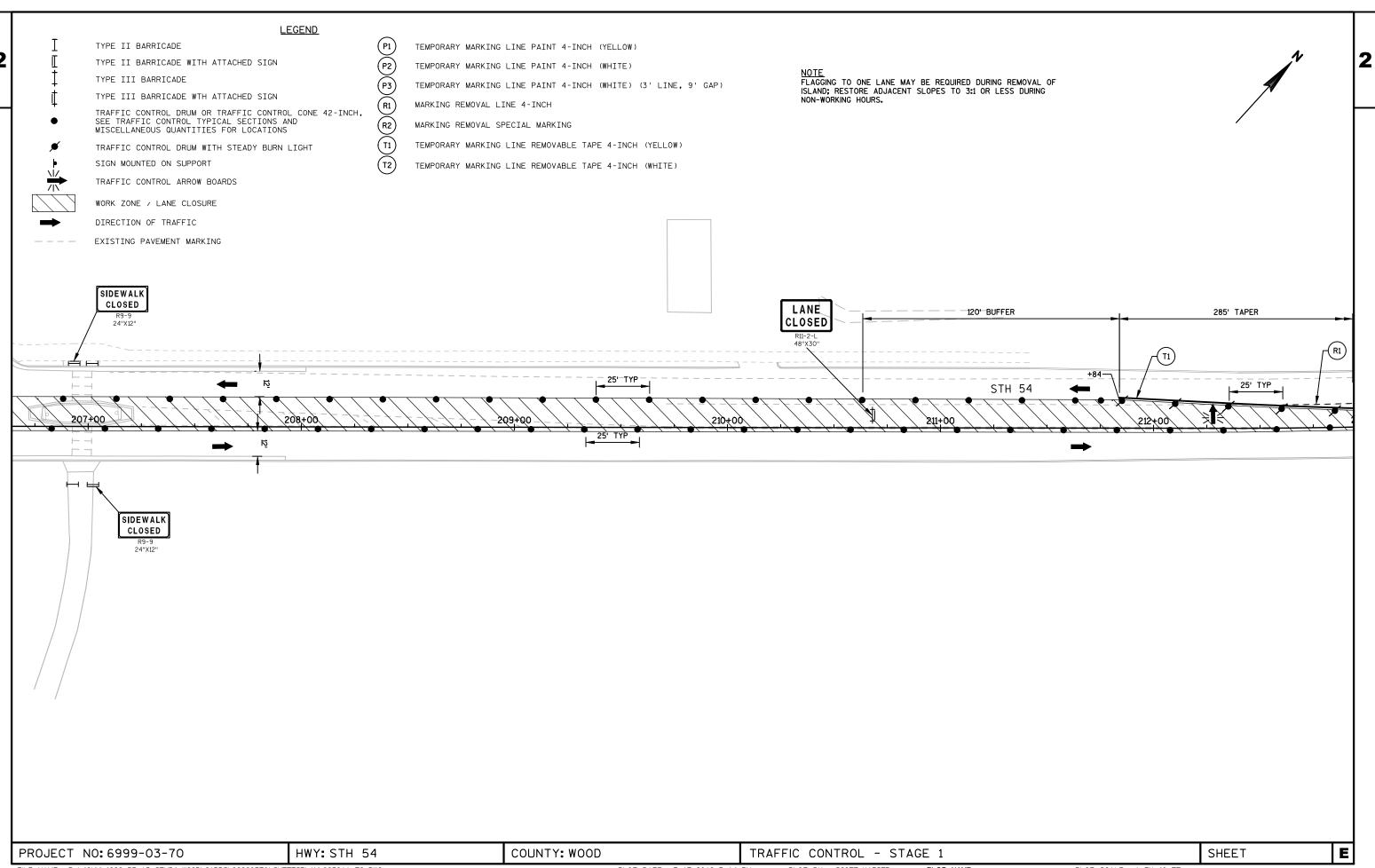
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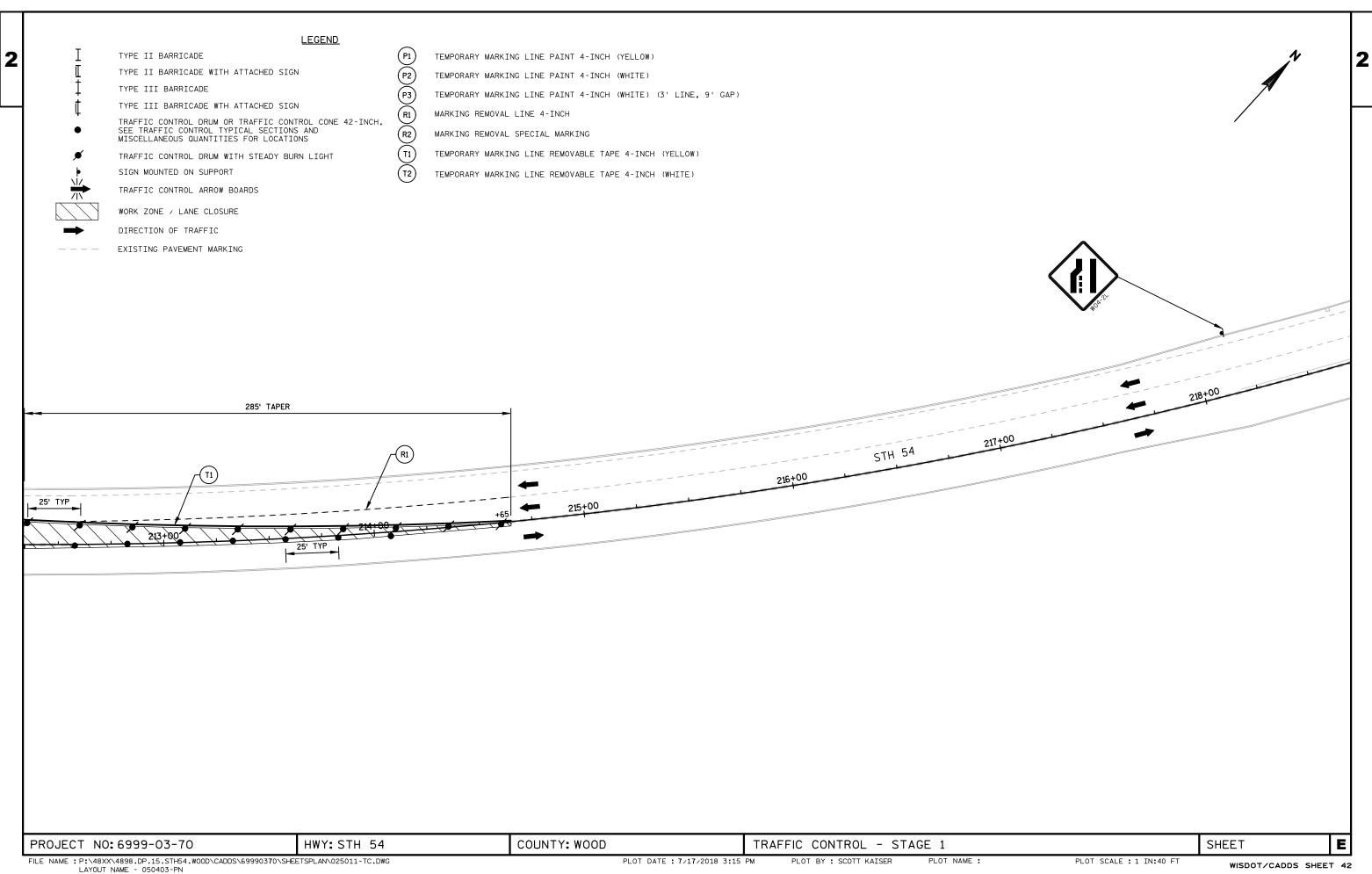
HWY:STH 54

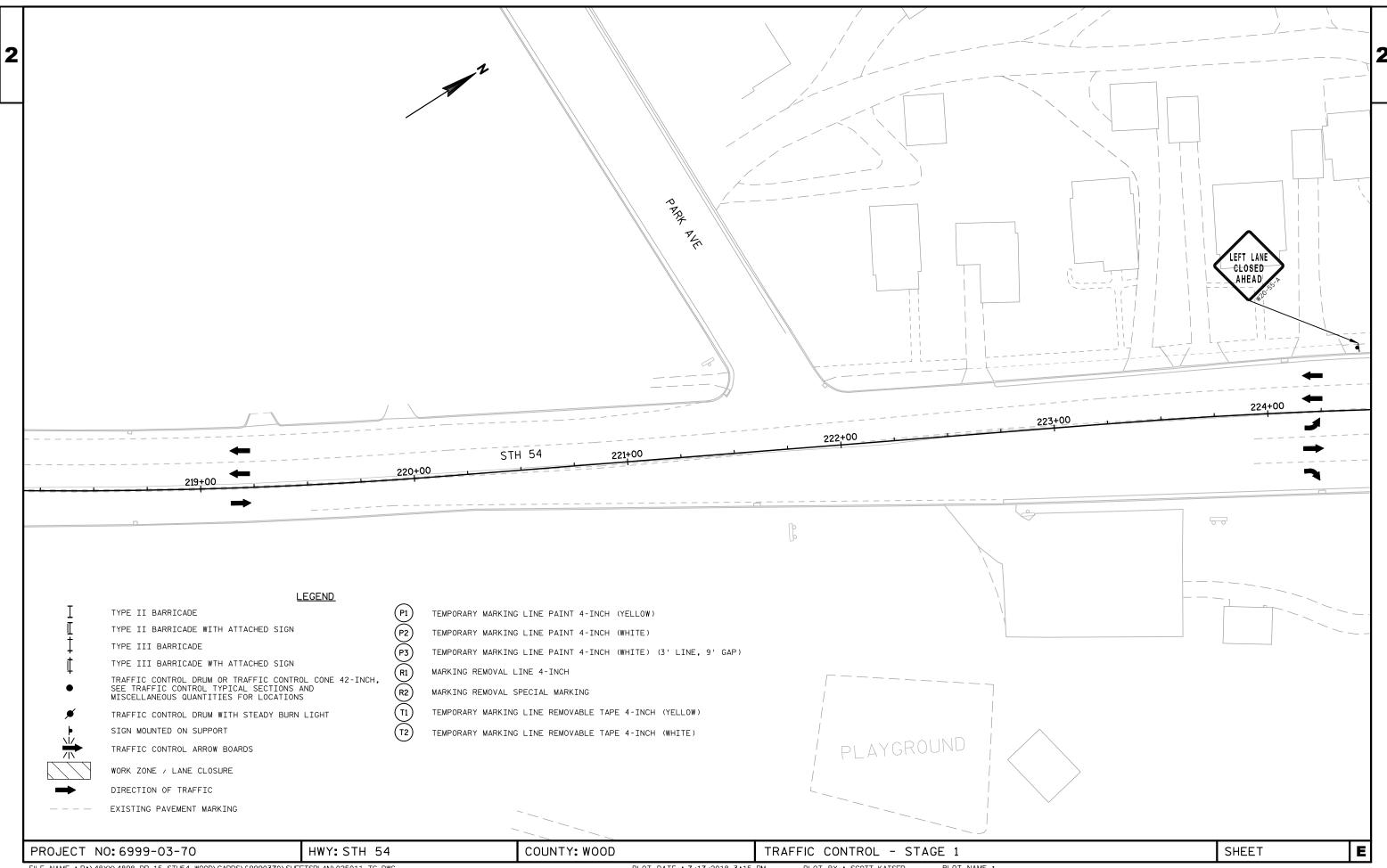


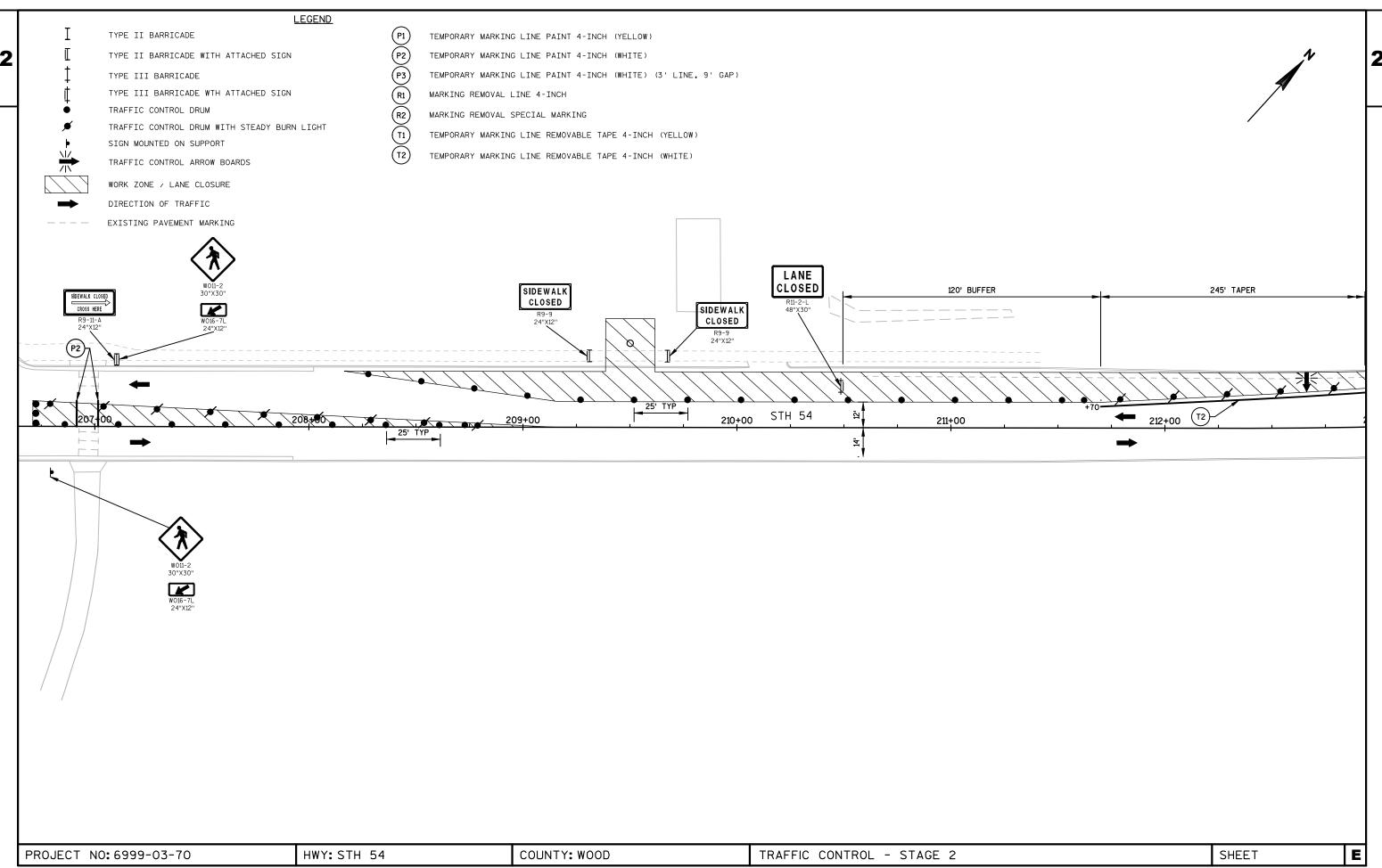


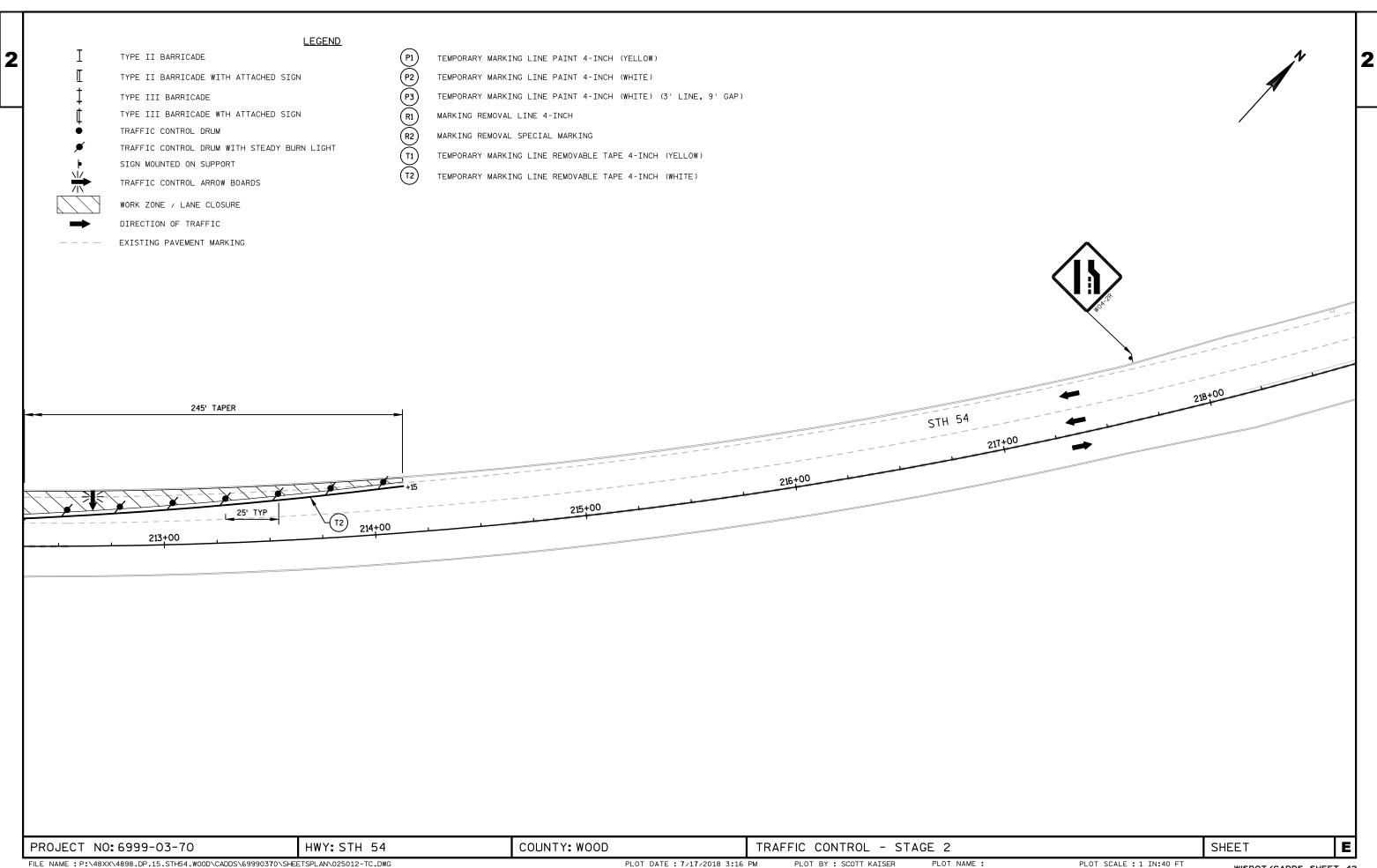


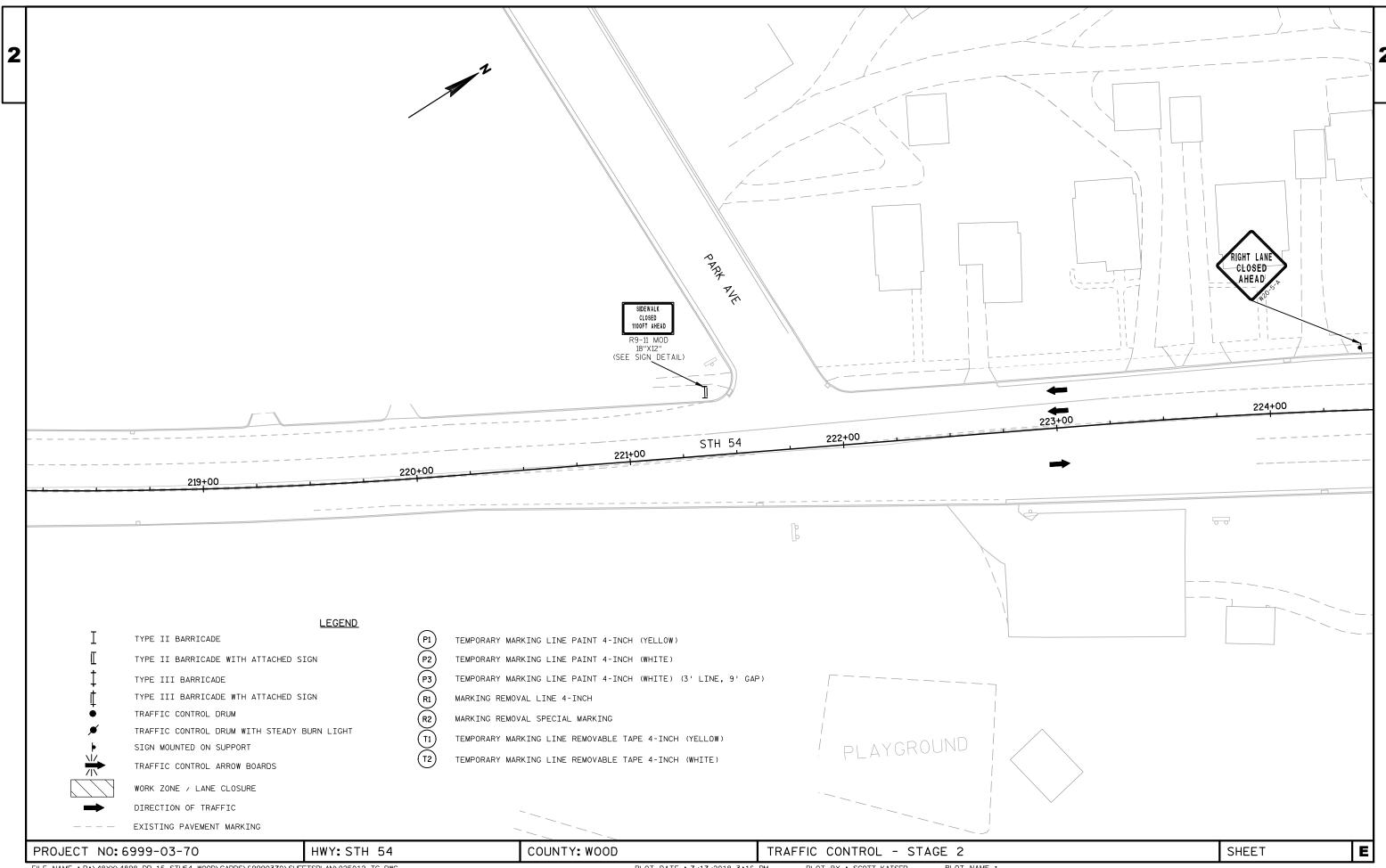


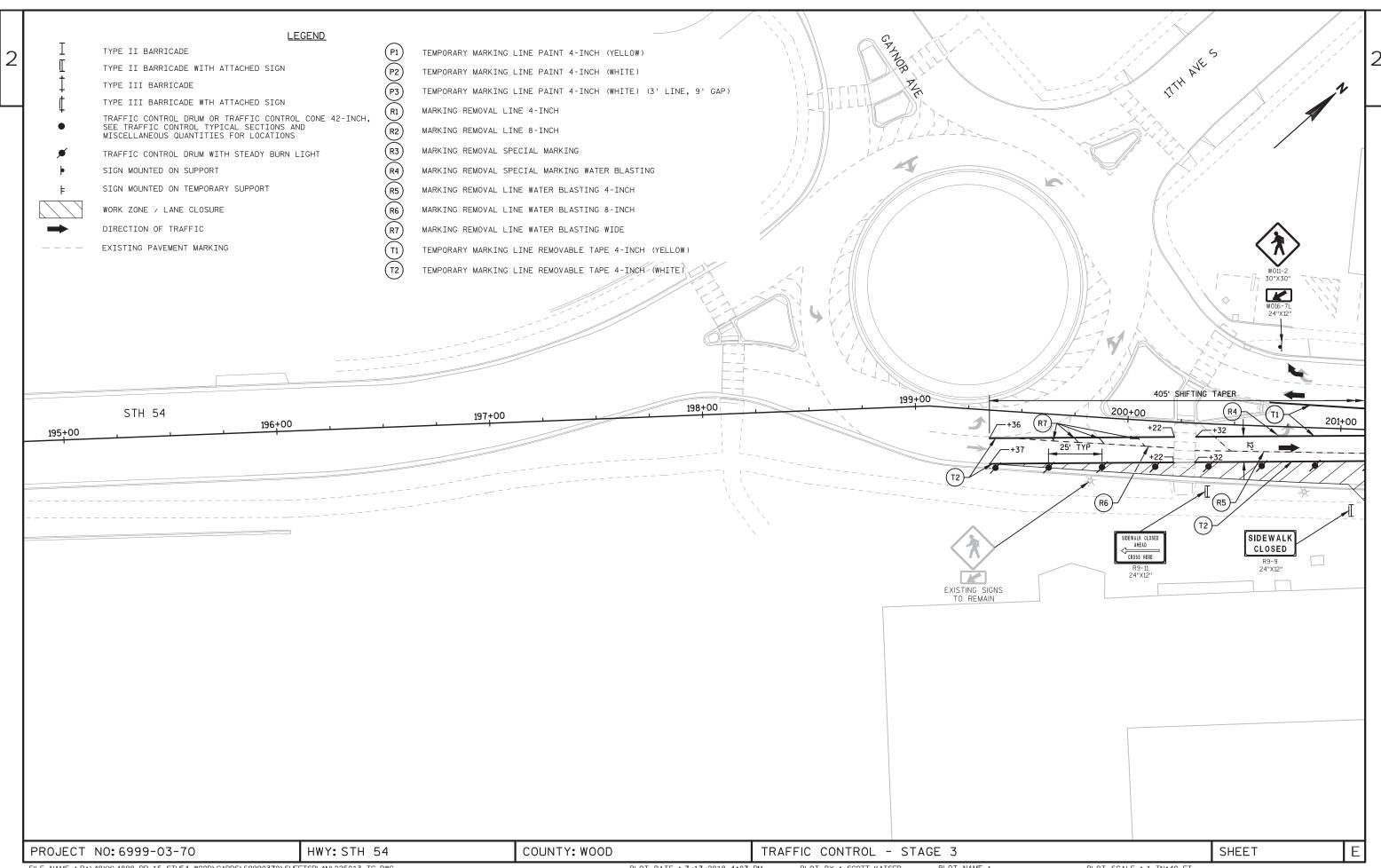












FILE NAME : P:\48XX\4898.DP.15.STH54.WOOD\CADDS\69990370\SHEETSPLAN\025013-TC.DWG LAYOUT NAME - 050401-PN

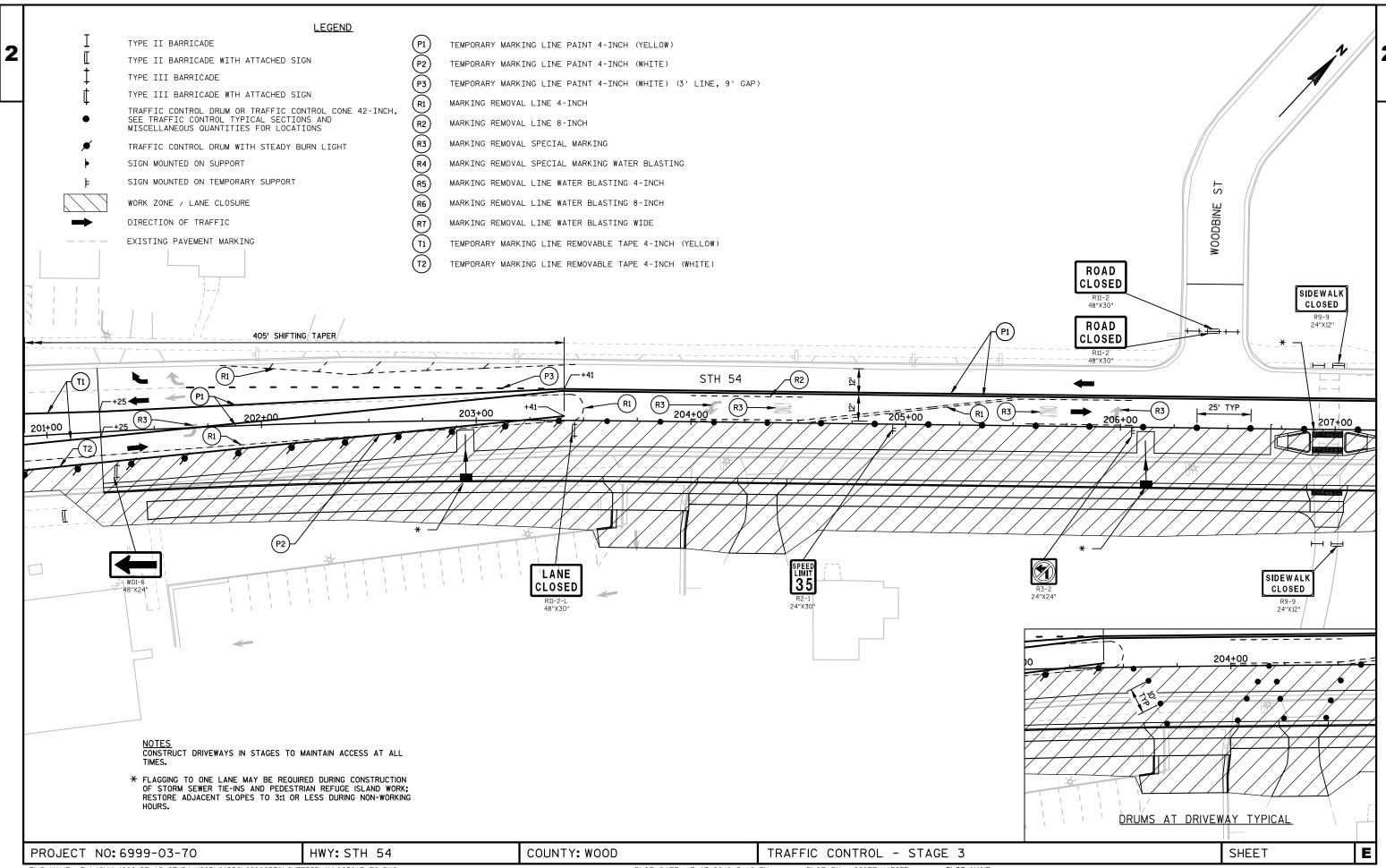
PLOT DATE : 7/17/2018 4:07 PM

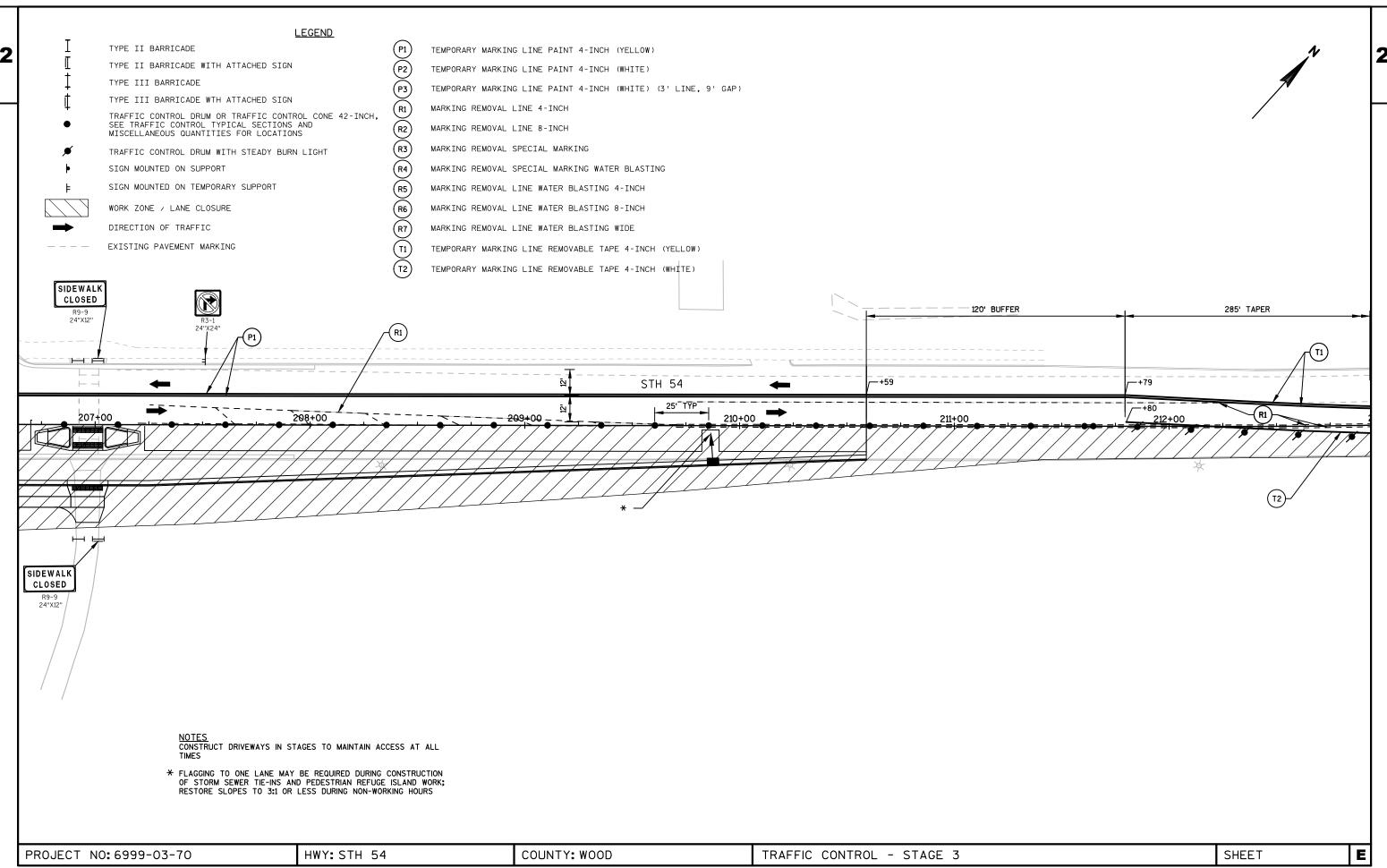
PLOT BY : SCOTT KAISER

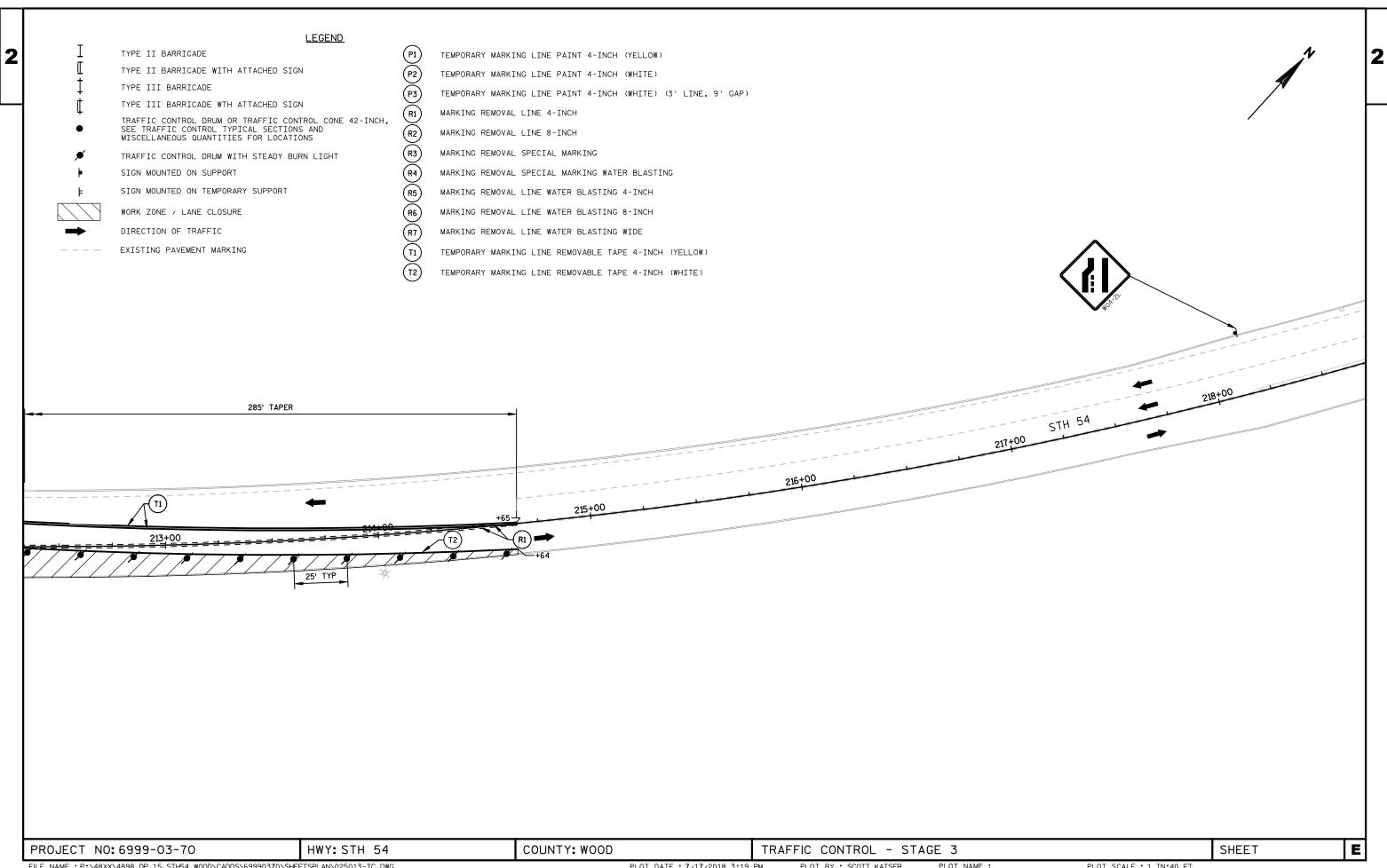
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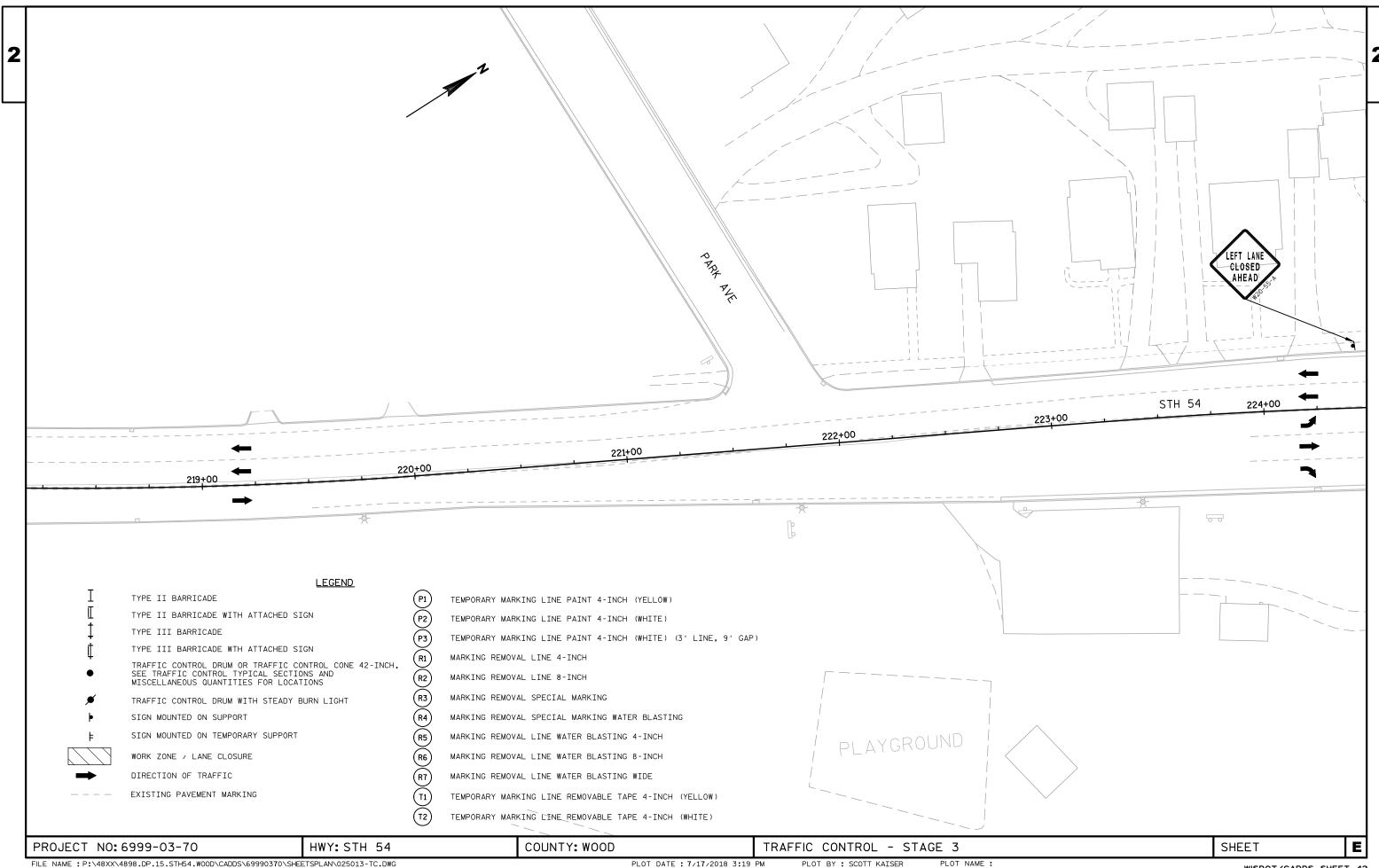
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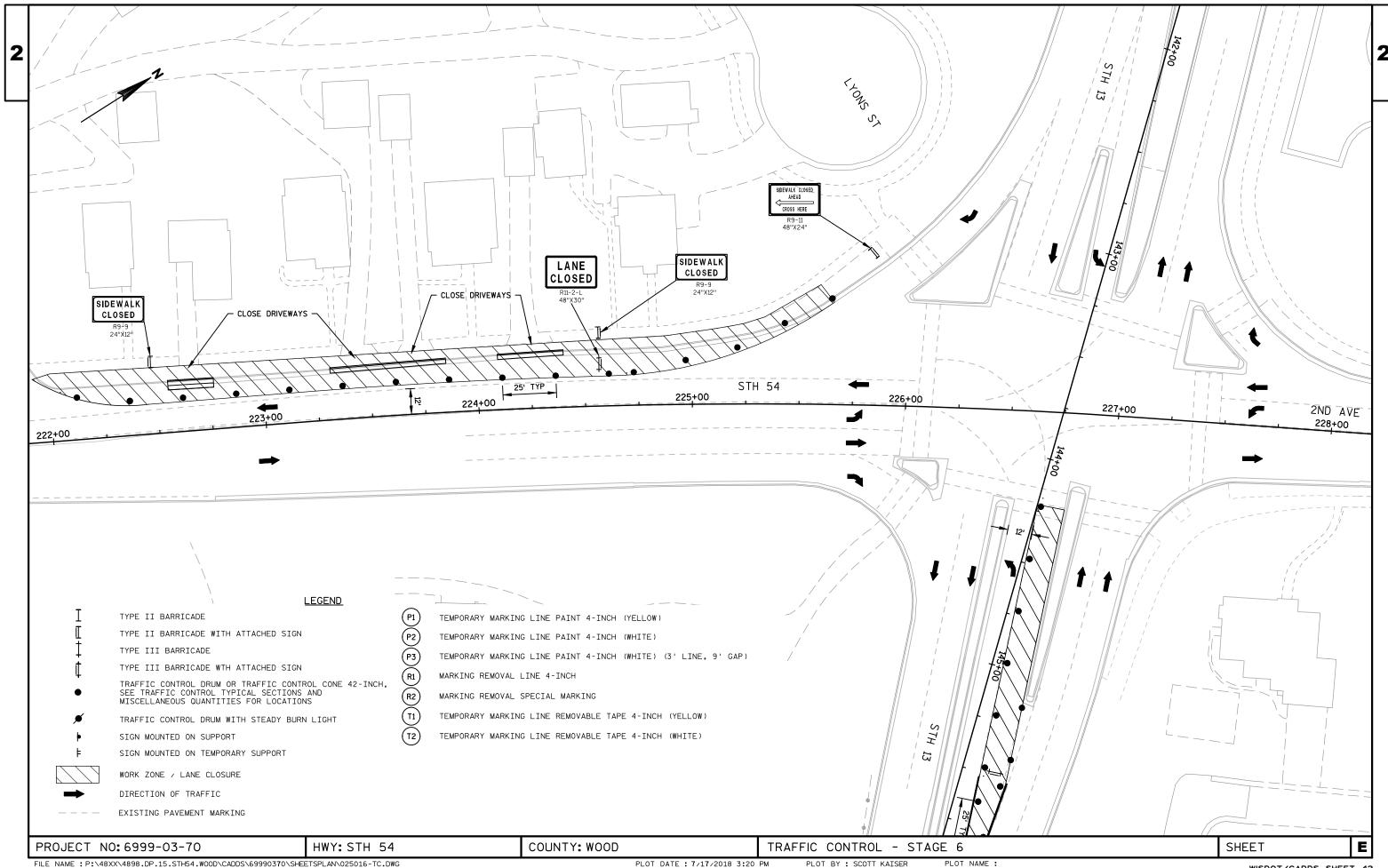
WISDOT/CADDS SHEET 42

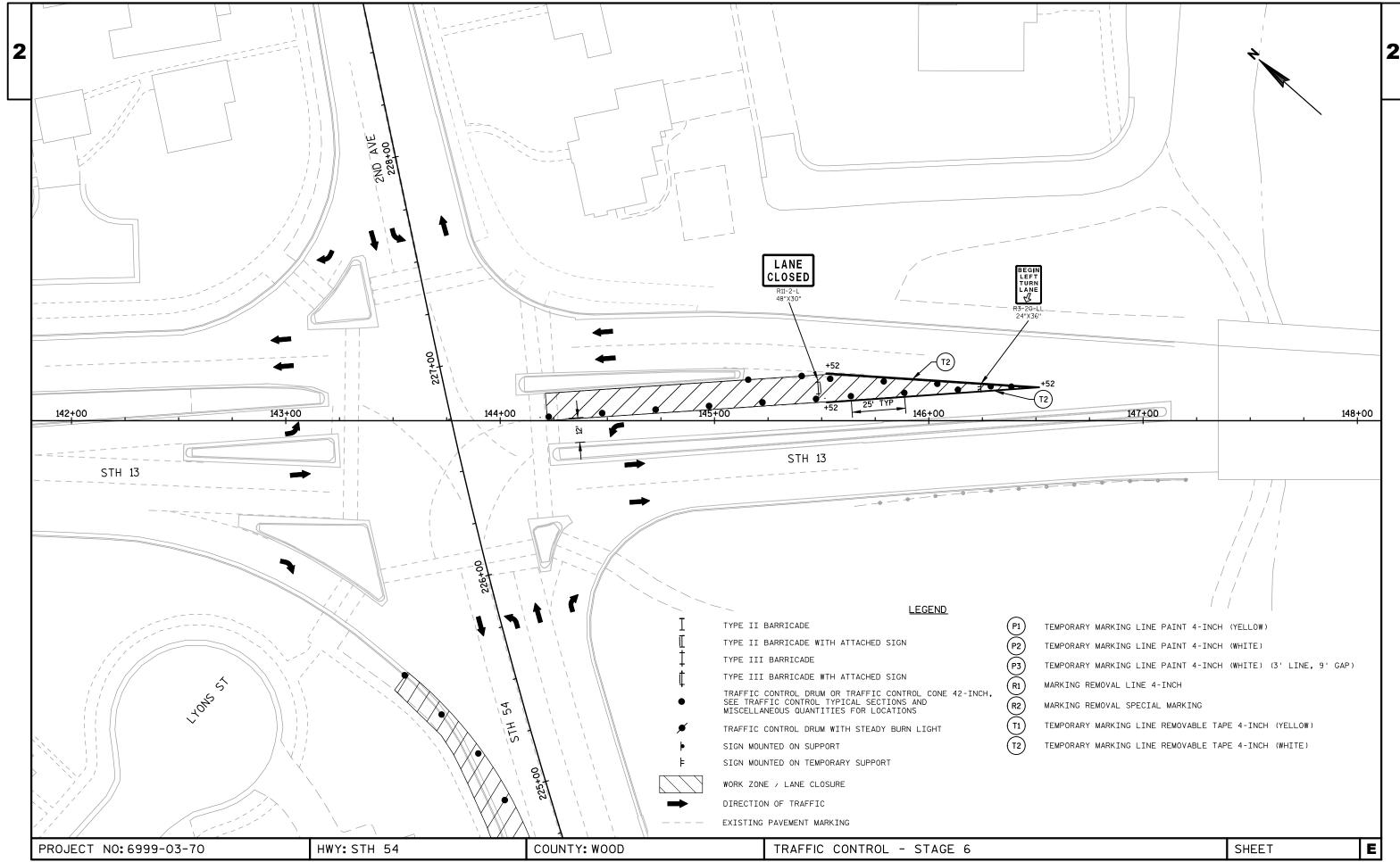


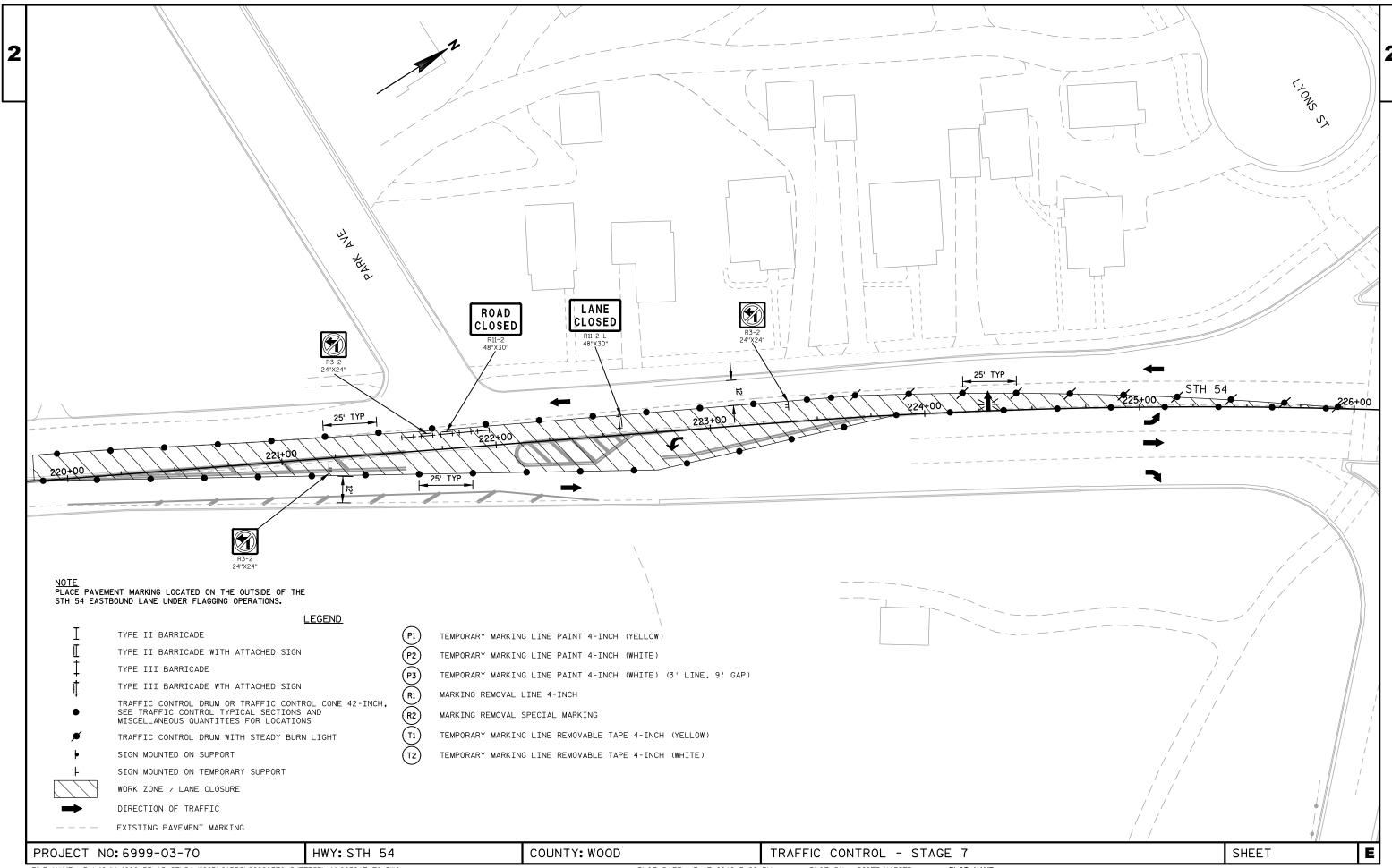


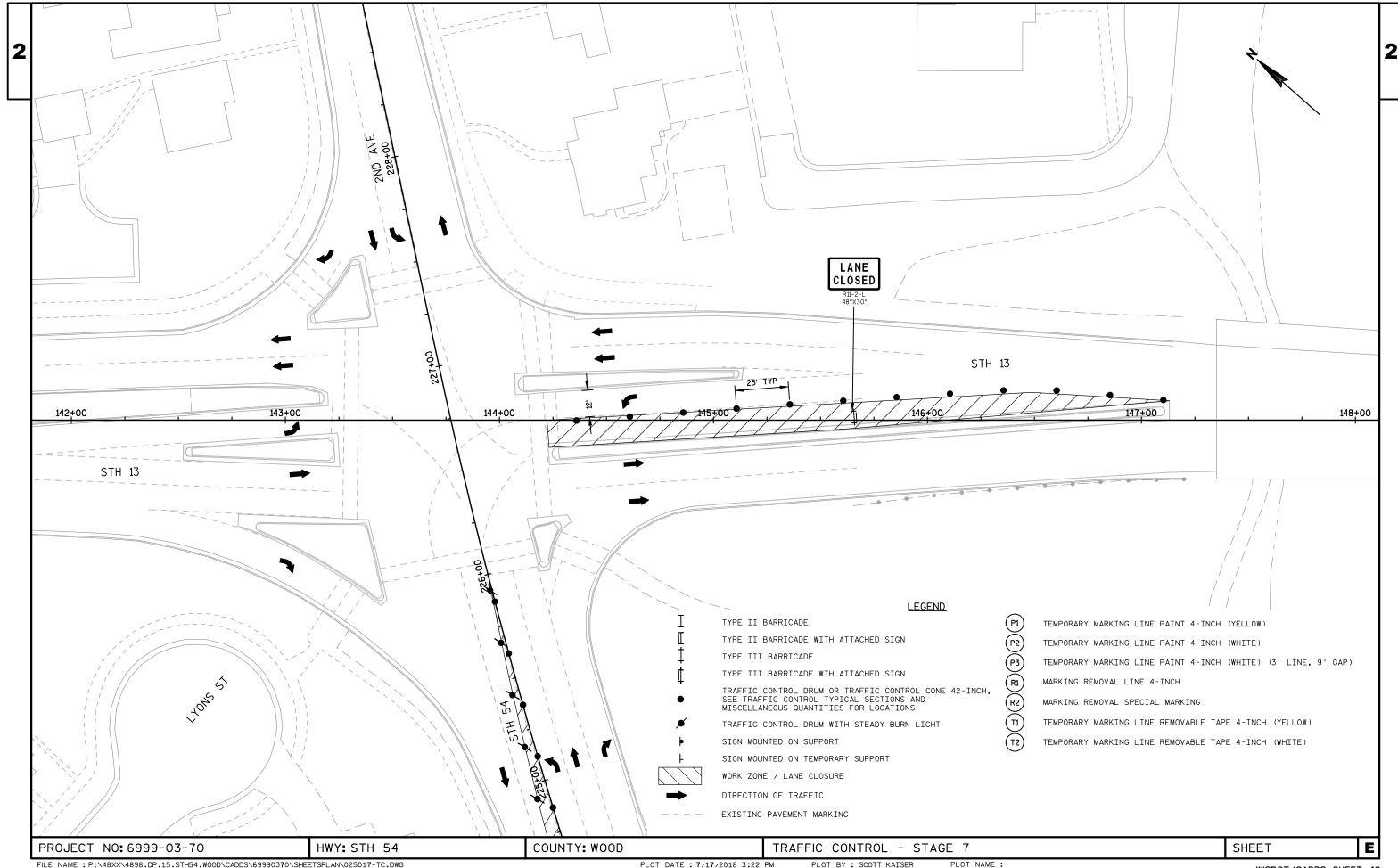












					Estimate Of Q	uaiitities	raye i	
					6999-03-70			
Line	Item	Item Description	Unit	Total	Qty			
0002	201.0120	Clearing	ID	218.000	218.000			
0004	201.0220	Grubbing	ID	218.000	218.000			
0006	204.0100	Removing Pavement	SY	115.000	115.000			
8000	204.0115	Removing Asphaltic Surface Butt Joints	SY	28.000	28.000			
0010	204.0120	Removing Asphaltic Surface Milling	SY	4,250.000	4,250.000			
0012	204.0130	Removing Curb	LF	12.000	12.000			
0014	204.0150	Removing Curb & Gutter	LF	1,200.000	1,200.000			
0016	204.0155	Removing Concrete Sidewalk	SY	215.000	215.000			
0018	204.0215	Removing Catch Basins	EACH	3.000	3.000			
0020	204.0245	Removing Storm Sewer (size) 01. 12-Inch	LF	15.000	15.000			
0022	205.0100	Excavation Common	CY	1,333.000	1,333.000			
0024	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 6999-03-70	LS	1.000	1.000			
0026	213.0100	Finishing Roadway (project) 01. 6999-03-70	EACH	1.000	1.000			
0028	305.0110	Base Aggregate Dense 3/4-Inch	TON	10.000	10.000			
0030	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	1,265.000	1,265.000			
0032	416.0260	Concrete Driveway HES 6-Inch	SY	95.000	95.000			
0034	416.0610	Drilled Tie Bars	EACH	60.000	60.000			
0036	455.0605	Tack Coat	GAL	350.000	350.000			
0038	460.2000	Incentive Density HMA Pavement	DOL	660.000	660.000			
0040	460.6223	HMA Pavement 3 MT 58-28 S	TON	240.000	240.000			
0042	460.6424	HMA Pavement 4 MT 58-28 H	TON	780.000	780.000			
0044	465.0110	Asphaltic Surface Patching	TON	45.000	45.000			
0046	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	25.000	25.000			
0048	520.8000	Concrete Collars for Pipe	EACH	3.000	3.000			
0050	601.0110	Concrete Curb Type D	LF	12.000	12.000			
0052	601.0407	Concrete Curb & Gutter 18-Inch Type D	LF	90.000	90.000			
0054	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	85.000	85.000			
0056	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	880.000	880.000			
0058	602.0405	Concrete Sidewalk 4-Inch	SF	3,300.000	3,300.000			
0060	602.0415	Concrete Sidewalk 6-Inch	SF	125.000	125.000			
0062	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	84.000	84.000			
0064	608.0412	Storm Sewer Pipe Reinforced Concrete Class IV 12-Inch	LF	53.000	53.000			
0066	611.0639	Inlet Covers Type H-S	EACH	3.000	3.000			
0068	611.1230	Catch Basins 2x3-FT	EACH	3.000	3.000			
0070	611.8110	Adjusting Manhole Covers	EACH	4.000	4.000			
0072	618.0100	Maintenance And Repair of Haul Roads (project) 01. 6999-03-70	EACH	1.000	1.000			
0074	619.1000	Mobilization	EACH	1.000	1.000			

Page 2

					6999-03-70
Line	Item	Item Description	Unit	Total	Qty
0076	620.0300	Concrete Median Sloped Nose	SF	80.000	80.000
0078	624.0100	Water	MGAL	12.000	12.000
0800	625.0100	Topsoil	SY	1,200.000	1,200.000
0082	628.1504	Silt Fence	LF	480.000	480.000
0084	628.1520	Silt Fence Maintenance	LF	480.000	480.000
0086	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
8800	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000
0090	628.2006	Erosion Mat Urban Class I Type A	SY	1,200.000	1,200.000
0092	628.7005	Inlet Protection Type A	EACH	4.000	4.000
0094	628.7015	Inlet Protection Type C	EACH	15.000	15.000
0096	629.0210	Fertilizer Type B	CWT	1.000	1.000
0098	630.0140	Seeding Mixture No. 40	LB	25.000	25.000
0100	631.0300	Sod Water	MGAL	20.000	20.000
0102	634.0811	Posts Tubular Steel 2x2-Inch X 11-FT	EACH	6.000	6.000
0104	634.0814	Posts Tubular Steel 2x2-Inch X 14-FT	EACH	3.000	3.000
0106	637.1220	Signs Type I Reflective SH	SF	83.000	83.000
0108	637.2210	Signs Type II Reflective H	SF	56.180	56.180
0110	637.2230	Signs Type II Reflective F	SF	23.750	23.750
0112	638.2602	Removing Signs Type II	EACH	15.000	15.000
0114	638.3000	Removing Small Sign Supports	EACH	11.000	11.000
0116	641.8100	Overhead Sign Support (structure) 01. S-71-0033	LS	1.000	1.000
0118	643.0300	Traffic Control Drums	DAY	1,736.000	1,736.000
0120	643.0310.S	Temporary Portable Rumble Strips	LS	1.000	1.000
0122	643.0410	Traffic Control Barricades Type II	DAY	268.000	268.000
0124	643.0420	Traffic Control Barricades Type III	DAY	217.000	217.000
0126	643.0705	Traffic Control Warning Lights Type A	DAY	350.000	350.000
0128	643.0715	Traffic Control Warning Lights Type C	DAY	1,117.000	1,117.000
0130	643.0800	Traffic Control Arrow Boards	DAY	13.000	13.000
0132	643.0900	Traffic Control Signs	DAY	3,427.000	3,427.000
0134	643.1050	Traffic Control Signs PCMS	DAY	27.000	27.000
0134	643.1050	Traffic Control Cones 42-Inch	DAY	1,587.000	1,587.000
0136	643.5000			1,587.000	
		Traffic Control	EACH		1.000
0140	646.1020	Marking Line Epoxy 4-Inch	LF	1,500.000	1,500.000
0142	646.3020	Marking Line Epoxy 8-Inch	LF	360.000	360.000
0144	646.4520	Marking Line Same Day Epoxy 4-Inch	LF	5,450.000	5,450.000
0146	646.5020	Marking Arrow Epoxy	EACH	9.000	9.000
0148	646.5120	Marking Word Epoxy	EACH	2.000	2.000
0150	646.7120	Marking Diagonal Epoxy 12-Inch	LF	300.000	300.000
0152	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	180.000	180.000
0154	646.7520	Marking Crosswalk Epoxy Ladder Pattern 24-Inch	LF	200.000	200.000

					6999-03-70
Line	Item	Item Description	Unit	Total	Qty
0156	646.8120	Marking Curb Epoxy	LF	55.000	55.000
0158	646.8220	Marking Island Nose Epoxy	EACH	2.000	2.000
0160	646.9000	Marking Removal Line 4-Inch	LF	2,535.000	2,535.000
0162	646.9010	Marking Removal Line Water Blasting 4-Inch	LF	1,320.000	1,320.000
0164	646.9100	Marking Removal Line 8-Inch	LF	160.000	160.000
0166	646.9110	Marking Removal Line Water Blasting 8-Inch	LF	155.000	155.000
0168	646.9200	Marking Removal Line Wide	LF	25.000	25.000
0170	646.9210	Marking Removal Line Water Blasting Wide	LF	335.000	335.000
0170	646.9300	Marking Removal Special Marking	EACH	5.000	5.000
0174	646.9310	Marking Removal Special Marking Water Blasting	EACH	5.000	5.000
0174	649.0105	Temporary Marking Line Paint 4-Inch	LF	2,160.000	2,160.000
0178	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	2,205.000	2,205.000
0180	650.4000	Construction Staking Storm Sewer	EACH	3.000	3.000
0180	650.5000	Construction Staking Storm Sewer	LF	934.000	934.000
		<u> </u>			
0184	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	1,060.000	1,060.000
0186	650.8000	Construction Staking Resurfacing Reference	LF	2,315.000	2,315.000
0188	650.8500	Construction Staking Electrical Installations (project) 01. 6999-03-70		1.000	1.000
0190	650.9910	Construction Staking Supplemental Control (project) 01. 6999-03-70	LS	1.000	1.000
0192	650.9920	Construction Staking Slope Stakes	LF	934.000	934.000
0194	652.0325	Conduit Rigid Nonmetallic Schedule 80 2-Inch	LF	1,135.000	1,135.000
0196	655.0610	Electrical Wire Lighting 12 AWG	LF	1,350.000	1,350.000
0198	655.0630	Electrical Wire Lighting 4 AWG	LF	8,365.000	8,365.000
0200	690.0150	Sawing Asphalt	LF	1,650.000	1,650.000
0202	690.0250	Sawing Concrete	LF	125.000	125.000
0204	SPV.0060	Special 01. Adjusting Water Valve Boxes	EACH	6.000	6.000
0206	SPV.0060	Special 02. Adjusting Sanitary Manhole Cover	EACH	3.000	3.000
0208	SPV.0060	Special 03. Reconstructing Sanitary Manhole	EACH	1.000	1.000
0210	SPV.0060	Special 04. Remove and Reinstall Street Light Assembly	EACH	5.000	5.000
0212	SPV.0060	Special 05. Research and Locate Existing Land Parcel Monuments	EACH	2.000	2.000
0214	SPV.0060	Special 06. Verify and Replace Existing Land Parcel Monuments	EACH	2.000	2.000
0216	SPV.0090	Special 01. Concrete Curb & Gutter HES 30-Inch Type D	LF	100.000	100.000
0218	SPV.0165	Special 01. Salvage and Replace Brick Pavers	SF	32.000	32.000
0220	SPV.0165	Special 02. Salvage Brick Pavers	SF	160.000	160.000
0222	SPV.0180	Special 01. Preparing Topsoil for Lawn Type Turf	SY	1,200.000	1,200.000

Estimate Of Quantities Page 4

6999-03-70

3

CLEARING AND GRUBBING ITEMS

				201.0120	201.0220
				CLEARING	GRUBBING
CATEGORY	STAGE	STATION	OFFSET	ID	ID
0010					
	3	202+40	RT	32	32
	3	204+48	RT	30	30
	3	204+55	RT	15	15
	3	204+88	RT	18	18
	3	205+02	RT	36	36
	3	205+69	RT	36	36
	3	206+08	RT	15	15
	3	206+34	RT	36	36
TOTALS				218	218

REMOVAL ITEMS

						204.0100	204.0115	204.0120	204.0130	204.0150	204.0155	SPV.0165.02
						REMOVING PAVEMENT	REMOVING ASPHALTIC SURFACE BUTT JOINTS	REMOVING ASPHALTIC SURFACE MILLING	REMOVING CURB	CURB & GUTTER	REMOVING CONCRETE SIDEWALK	SALVAGE BRICK PAVERS
CATEGORY	STAGE	STATION	TO	STATION	OFFSET	SY	SY	SY	LF	LF	SY	SF
0010												
	1	206+73	-	207+22	LT & RT	8	_			115	15	160
	3	201+25	-	210+59	RT		_			932	_	
	3	201+45	-	203+67	RT		_			_	200	
	3	202+24	-	210+25	RT		_			_	_	
	3	203+50	-	204+00	RT	50	_		12	46	_	
	3	204+23	-	204+46	RT	16	_			_	_	
	4 & 5	201+25	-	210+59	LT & RT		28	4,250		_	_	
	6	222+55	-	222+77	LT	9	_			22	_	
	6	223+32	-	223+86	LT	22	_			54	_	
	6	224+10	-	224+40	LT	10	_			31	_	
OTALS						115	28	4,250	12	1,200	215	160

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)
						FACTOR 1.25	
STH 54							
1	STA 201+25 - STA 210+59	1,333	150	1,183	15	19	1,164
TOTALS		1,333	150	1,183	15	19	1,164

- 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

MISCELLANEOUS QUANTITIES Ε PROJECT NO:6999-03-70 HWY:STH 54 COUNTY: WOOD SHEET

PLOT NAME :

3

REMOVING DRAINAGE ITEMS

0010

TOTALS

204.0245 204.0215

REMOVING REMOVING STORM SEWER CATCH BASINS (12-INCH) CATEGORY STAGE STATION OFFSET 202+95 RT 206+12 RT 209+87 RT TOTALS

PREPARE FOUNDATION ITEMS

211.0100

PREPARE FOUNDATION FOR ASPHALTIC PAVING (6999-03-70) CATEGORY LOCATION PROJECT 1 TOTAL

BASE AGGREGATE ITEMS

305.0110 305.0120

AGGREGATE BASE AGGREGATE DENSE 3/4-INCH DENSE 1 1/4-INCH

CATEGORY STAGE STATION TO STATION OFFSET TON COMMENTS 0010 201+25 - 210+59 RT 1,150 203+64 - 207+05 RT 65 DRIVEWAYS 222+55 - 224+40 LT UNDISTRIBUTED ADJUSTING MANHOLES AND TEMPORARY WEDGE TOTALS 10 1,265

DRIVEWAY SURFACE ITEMS

203+64 - 204+04

204+22 - 204+45

206+81 - 207+05

15

416.0260 465.0120

25

CONCRETE ASPHALTIC SURFACE DRIVEWAY HES DRIVEWAYS AND FIELD ENTRANCES CATEGORY STAGE STATION TO STATION OFFSET TON 57 12 10 RT 19 RT 19 3

DRILLED TIE BARS

0010

TOTAL

416.0610 DRILLED TIE

60

CATEGORY STAGE STATION TO STATION OFFSET EACH 201+25 - 210+59 10 50 223+31 - 224+40 ΙT

ASPHALTIC ITEMS

455.0605 460.6223 460.6424 465.0110 ASPHALTIC HMA PAVEMENT 3 HMA PAVEMENT 4 SURFACE MT 58-28 S MT 58-28 H PATCHING TACK COAT STAGE STATION TO STATION OFFSET CATEGORY TON TON COMMENTS 206+72 - 207+21 LT 23 201+25 - 210+59 LT & RT 3, 4 & 5 350 240 780 201+25 - 210+59 LT & RT ADJUSTING MANHOLES 222+55 - 222+77 LT TOTALS 240 780 45

CONCRETE CURB & CONCRETE CURB & GUTTER ITEMS

601.0110 601.0407 601.0409 601.0411 SPV.0090.01

CONCRETE CURB CONCRETE CURB CONCRETE CURB CONCRETE & GUTTER & GUTTER & GUTTER & GUTTER HES
CURB TYPE D 18-INCH TYPE D 30-INCH TYPE A 30-INCH TYPE D 30-INCH TYPE D CATEGORY STAGE STATION TO STATION OFFSET - 210+59 834 100 204+00 12 24 - 207+21 - 222+77 LT 22 223+31 - 224+40 LT

PROJECT NO:6999-03-70 HWY:STH 54 FILE NAME: P:\48xx\4898.DP.15.STH54.WOOD\CADDS\69990370\SheetsPlan\030201_mq.dgn

COUNTY: WOOD

0010

TOTALS

201+25

203+50

206+72

222+55

PLOT BY : sgc

MISCELLANEOUS QUANTITIES PLOT NAME : SHEET

880

100

WISDOT/CADDS SHEET 43

Ε

CONCRETE SIDEWALK ITEMS

3

						602.0405	602.0415	602.0505
						CONCRETE SIDEWALK 4-INCH	CONCRETE SIDEWALK 6-INCH	CURB RAMP DETECTABLE WARNING FIELD YELLOW
CATEGORY	STAGE	STATION	TO	STATION	OFFSET	SF	SF	SF
0010								
	3	201+45	-	204+00	RT	1,780		
	3	206+72	-	207+21	RT	140	125	84
CATEGORY TO	TALS					1,920	125	84
0020								
	3	204+00	-	206+88	RT	1,380		
CATEGORY TO	TALS					1,380		<u></u>
TOTALS						3,300	125	84

CONCRETE MEDIAN NOSE

620.0300

CONCRETE MEDIAN

						SLOPED NOSE	
CATEGORY	STAGE	STATION	TO	STATION	OFFSET	SF	COMMENTS
0010							
0010							
	3	206+72	-	207+21	RT	80	TYPE 1
TOTAL					-	80	

STORM SEWER STRUCTURES

520.8000 608.0412 611.0639 611.1230

				STRUCTURE	CONCRETE COLLARS FOR PIPE	STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 12-INCH	INLET COVERS TYPE H-S	CATCH BASINS 2X3-FT
CATEGORY	STAGE	STATION	OFFSET	NUMBER	EACH	LF	EACH	EACH
0010								
	3	202+95.00	27.5' RT	1	1	21	1	1
	3	206+12.27	27.5' RT	2	1	21	1	1
	3	209+87.73	17.65' RT	3	1	11	1	1
TOTALS					3	53	3	3

ADJUSTING & RECONSTRUCTING ITEMS

						611.8110	SPV.0060.01	SPV.0060.02	SPV.0060.03
						ADJUSTING MANHOLE COVERS	ADJUSTING WATER VALVE BOXES	ADJUSTING SANITARY MANHOLE COVER	RECONSTRUCTING SANITARY MANHOLE
CATEGORY	STAGE	STATION	TO	STATION	OFFSET	EACH	EACH	EACH	EACH
0010	4 & 5	201+25	_	210+59	LT & RT	4	_	_	_
CATAGORY TO	TAL C								
CATAGORY TO	IALS					4	_	_	_
0030									
	4 & 5	201+25	-	210+59	LT & RT	-	6	3	1
CATEGORY TO	ΓALS					_	6	3	1
TOTALS						4	6	3	1

PROJECT NO:6999-03-70 HWY:STH 54

COUNTY: WOOD

MISCELLANEOUS QUANTITIES

PLOT NAME :

SHEET

т Е

FILE NAME: P:\48xx\4898.DP.15.STH54.WOOD\CADDS\69990370\SheetsPlan\030201_mq.dgn

PLOT DATE: 10/30/2017

PLOT BY : sgc

PLOT SCALE : 1:20

3

EROSION CONTROL ITEMS

						628.1504	628.1520	628.2006	628.7005	628.7015
						SILT FENCE	SILT FENCE MAINTENANCE	EROSION MAT URBAN CLASS I TYPE A	INLET PROTECTION TYPE A	INLET PROTECTION TYPE C
CATEGORY	STAGE	STATION	TO	STATION	OFFSET	LF	LF	SY	EACH	EACH
0010										
	3, 4 & 5	200+50	_	210+59	LT & RT		_	900	3	9
	3	207+00	-	210+59	RT	380	380	_		_
	6 & 7	221+90	-	224+40	LT		=	60		3
		UNDI	STRIE	BUTED		100	100	240	1	3
TOTALS						480	480	1,200	4	15

EROSION CONTROL MOBILIZATION ITEMS

628.1910 628.1905

		MOBILIZATIONS EROSION CONTROL	MOBILIZATIONS EMERGENCY EROSION CONTROL
CATEGORY	LOCATION	EACH	EACH
0010			
	PROJECT	4	1
TOTALS		4	

TYPE II SIGNS AND SUPPORTS

						634.0811	634.0814	637.2210	637.2230	638.2602	638.3000	SPV.0165.01	
			DIN	SIGN MENSI W X F	ON	POSTS TUBULAR STEEL 2X2-INCH X 11-FT	POSTS TUBULAR STEEL 2X2-INCH X 14-FT	SIGNS TYPE II REFLECTIVE H	SIGNS TYPE II REFLECTIVE F	REMOVING SIGNS TYPE II	REMOVING SMALL SIGN SUPPORTS	SALVAGE AND REPLACE BRICK PAVERS	
CATEGORY S	SIGN NUMBER	SIGN CODE	IN	X	IN	EACH	EACH	SF	SF	EACH	EACH	SF	COMMENTS
0010													
	1-1	D2-1	54	Х	24	2		9.00	_		_	8	
	1-2			X	_	_			_	1	1		
	2-1	R3-8-D	36	X	30	1		7.50	_	1	1	4	
	2-2	W3-2	36	Χ	36	_	1		9.00		_	4	
	2-3			Χ	_				_	1	1	4	
	2-4	R2-1	24	Χ	30	-		5.00	_		_		MOUNT ON LIGHT POLE
	2-5			Х	_	_			_	1	_		
	2-6			Χ	_	=			=	1	1		
	2-7	W2 - 6	30	Χ	30	_	1		6.25		_	4	
	2-8	W13-1	18	X	18	_			2.25				MOUNT ON SAME POST AS SIGN NO. 2-7
	2-9			Χ		_			_	1	1		
	2-10	W8-73	30	Χ	30	_	1		6.25		-	4	
	2-11	JV	24	Χ	72	_		12.00	_		_		MOUNT ON LIGHT POLE
	2-12			X		_			_	1	-		
	2-14	R1-1	30	Χ	30	1		5.18		1	1		
	2-15			Χ	_	_			_	1	1		
	3-1	R4-7	24	X	30	1		5.00	-		_		
	3-2	R4-7	24	X	30	1		5.00	-		_		
	3-3			Х	-	-			-	1	1		
	3-4			X	-	_				1	-		MOUNTED ON SAME POST AS NO. 3-3
	3-5			Х	-	_			-	1	1		
	3-9			X	-	-			_	1 1	1 1	4	
	3-10			X	_	_			=	1	1		
CATEGORY TO	OTALS					6	3	48.68	23.75	14	11	32	
0030													
	2-13			Χ	-	_			_	1	_		
	3-6	JH-1	24	Χ	45	_		7.50	_		_		MOUNT ON LIGHT POLE
CATEGORY TO	OTALS					_		7.50	_	1	_		
TOTALS						6	3	56.18	23.75	15	11	32	

TYPE I SIGNS

637.1220

			DIV	SIGN MENS W X F	ION	SIGNS TYPE I REFLECTIVE SH	
CATEGORY	SIGN NUMBER	SIGN CODE	IN	Χ	IN	SF	COMMENTS
0010							
	3-7	E6-51	96	X	72	48.00	S-17-0033
	3-8	E6-51	84	Χ	60	35.00	S-17-0033
TOTAL						83.00	

SIGN STRUCTURES

641.8100

SHEET

			OVERHEAD SIGN SUPPORT (S-71-0033)
CATEGORY	STATION	OFFSET	LS
0010			
	209+50	LT & RT	1
ΤΟΤΔΙ			1

PROJECT NO:6999-03-70 HWY:STH 54 FILE NAME: P:\48xx\4898.DP.15.STH54.WOOD\CADDS\69990370\SheetsPlan\030201_mq.dgn

3

COUNTY: WOOD

MISCELLANEOUS QUANTITIES PLOT BY : sgc

PLOT NAME :

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RESTORATION ITEMS

625.0100 629.0210 630.0140 SPV.0180.01

643.0420

OATE OODY	074.05	OTATION	TO	OTATION	OFFOFT	TOPSOIL	FERTILIZER TYPE B	SEEDING MIXTURE NO. 40	PREPARING TOPSOIL FOR LAWN TYPE TURF
_CATEGORY	STAGE	STATION	TO	STATION	OFFSET	SY	CWT	LB	SY
0010									
	3	200+50	-	210+59	LT & RT	900	0.6	16	900
	6	221+90	-	224+40	LT	60	0.1	2	60
		UNDIS	STRIE	BUTED	_	240	0.3	7	240
TOTALS						1,200	1.0	25	1,200

643.0410

643.0300

WATER ITEMS

			624.0100 WATER	631.0300 SOD WATER
CATEGORY	STAGE	LOCATION	MGAL	MGAL
0010	3 3 & 6	PROJECT - BASE COMPACTION PROJECT - SEEDED AREAS	12 —	_ 20
TOTALS			12	20

TRAFFIC CONTROL ITEMS

643.0715

643.0800

643.0900

643.1050

643.1070

643.0705

		043	.0300	043	.0410	043	.0420	043	.0703	043	.0713	043.	.0000	043.	.0900	043	. 1030	043	.1070
STAGE	STAGE <u>DURATION</u> DAYS	DR	UMS	BARRICA	DES TYPE	CON BARRI TYI	TROL CADES PE III	WARNIN TY	G LIGHTS PE A	WARNIN TYI	G LIGHTS PE C	TRAFFIC ARROW	CONTROL BOARDS	SIC	SNS	SIGNS	S PCMS		CONTRO
STAGE	DAYS	NO.	DAY	NO.	DAY	NO.	DAY	NO.	DAY	NO.	DAY	NO.	DAY	NO.	DAY	NO.	DAY	NO.	DAY
1	7	12	84	5	35	1	7	2	14	12	84	1	7	52	364	3	21	54	378
			84		35		7		14		84		7		364		21		378
2	5	46	230	4	20	1	5	2	10	19	95	1	5	57	285	-			_
			230		20		5		10		95		5		285				_
3	32	29	928	6	192	5	160	8	256	29	928			63	2,016	_		33	1,056
			928		192		160		256		928				2,016				1,056
4	4	45	180		-	3	12	4	16	-	-			49	196	_			_
			180		-		12		16		-				196				-
5	4	45	180		-	3	12	4	16	_	-			49	196	-			_
			180		_		12		16		_				196				_
6	7	16	112	3	21	2	14	4	28	_	_			52	364	3	6	16	112
			112		21		14		28		_				364		6		112
7	1	22			_	7		10		10		1	1	6		_		41	41
			22		_		7		10		10		1		6				41
	1 2 3 4	STAGE DURATION DAYS 1 7 2 5 3 32 4 4 5 4	STAGE DURATION STAGE TRAFFIC DR NO. 1 7 12 2 5 46 3 32 29 4 4 45 5 4 45 6 7 16	STAGE DURATION STAGE DURATION DAY TRAFFIC CONTROL DRUMS 1 7 12 84 2 5 46 230 3 32 29 928 4 4 45 180 5 4 45 180 5 4 45 180 6 7 16 112 7 1 22 22	STAGE DURATION STAGE TRAFFIC CONTROL DAY TRAFFIC PURMS NO. DAY NO. 1 7 12 84 5 2 5 46 230 4 2 5 46 230 4 3 32 29 928 6 4 4 45 180 5 4 45 180 5 4 45 180 180 180 4 7 16 112 3 112 3 112 3	STAGE DURATION STAGE DURATION STAGE TRAFFIC CONTROL DRUMS TRAFFIC CONTROL BARRICADES TYPE III 1 7 12 84 5 35 2 5 46 230 4 20 3 32 29 928 6 192 4 4 45 180 - 5 4 45 180 - 5 4 45 180 - 6 7 16 112 3 21 7 1 22 22 -	STAGE DURATION DRUMS NO. DAY NO. DA	STAGE DAYS DAY DAY	STAGE DURATION DRUMS NO. DAY D	STAGE DURATION DRUMS DRUMS NO. DAY NO. DAY	TRAFFIC CONTROL TRAFFIC CONTROL BARRICADES TYPE EARRICADES T	STAGE DURATION TRAFFIC CONTROL BARRICADES TYPE DURATION DAY NO.	STAGE DINS DINS	STAGE No. DAY No. D	STAGE TRAFFIC CONTROL DRIMS TRAFFIC CONTROL DRIMS TRAFFIC CONTROL DRIMS TRAFFIC CONTROL TRAFFIC CONTR	STAGE DINAMINON DINAMINO	TRAFFIC CONTROL TRAFFIC CONTROL CONTROL	STAGE DIVISION STAGE DIVISION DIVISIONI DIVISIONI DIVISIONI DIVISIONI DIVISIONI DIVISIONI DIVISIONI DIVISIONI DIVISIONI DIVISIONI DIVISIONI DI DIVISIONI DIVISION	STACE DIRATION DIRATION

TRAFFIC CONTROL

		643.5000
		TRAFFIC CONTROL
CATEGORY	LOCATION	EACH
0010		
	PROJECT	1
TOTAL		1

TEMPORARY PORTABLE RUMBLE STRIPS

643.0310.S TEMPORARY PORTABLE RUMBLE STRIPS CATEGORY LOCATION PROJECT TOTAL

PROJECT NO:6999-03-70 HWY:STH 54

3

COUNTY: WOOD

PLOT DATE: 10/30/2017

MISCELLANEOUS QUANTITIES

PLOT NAME :

PLOT SCALE: 1:20

WISDOT/CADDS SHEET 43

SHEET

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3

FILE NAME: P:\48xx\4898.DP.15.STH54.WOOD\CADDS\69990370\SheetsPlan\030201_mq.dgn

PLOT BY : sgc

TEMPORARY PAVEMENT MARKING ITEMS

						646.9000	646.9100	646.9200	646.9300		649.0105		649.	.0150	
						MARKING	MARKING	MARKING	MARKING REMOVAL	TEMPORARY	MARKING LINE PA	INT 4-INCH		MARKING LINE TAPE 4-INCH	
							REMOVAL LINE 8-INCH			3' LINE 9' SKIP WHITE	YELLOW	WHITE	YELLOW	WHITE	
CATEGORY	STAGE	STATION	TO	STATION	OFFSET	LF	LF	LF	EACH	LF	LF	LF	LF	LF	COMMENTS
0010	1	211+84	_	214+65	LT	55							280		
	1	211+04	-	214+05	LI	55	_		_	_		_	200	_	
SUBTOTALS						55	_		_	_			280	_	
											_		2	80	
0010	2	206+75	-	214+15	LT	-	-		_	-		25		245	
SUBTOTALS						_	_		_	_		25		245	
											25		2	45	
0010															
	3	199+36	-	214+75	LT & RT	2,480	160	25	5	45	1,870	220	1,060	420	
SUBTOTALS						2,480	160	25	5	45	1,870	220	1,060	420	
											2,135		1,	480	
0010															
	6	145+50	-	146+50	LT	-	-		-	· _		-		200	STH 13
SUBTOTALS						_	-		_					200	
TOTALS						2,535	160	25	5		 2,160			00 205	
TOTALS						2,335	100	23	3		2,100		۷,۰	200	

LONG LINE PAVEMENT MARKING ITEMS

						646.10)20	646.	3020	646.45	520	646.9010	646.9110	646.9210
						MARKING LII 4-ING		MARKING LINE	EPOXY 8-INCH	MARKING LINE SA 4-INC				
						12.5' LINE 37.5' SKIP WHITE	SOLID WHITE	WH ITE	YELLOW	12.5' LINE 37.5' SKIP YELLOW	SOLID YELLOW	MARKING REMOVAL LINE WATER BLASTING 4-INCH	MARKING REMOVAL LINE WATER BLASTING 8-INCH	MARKING REMOVAL LINE WATER BLASTING WIDE
CATEGORY	STAGE	STATION	TO	STATION	OFFSET	LF	LF	LF	LF	LF	LF	LF	LF	LF
0010														
	3	199+45	-	201+25	LT & RT	_				_	_	130	75	25
	5	199+45	-	210+59	LT & RT	198	950	315	30	150	2,378	165	80	310
	5	210+59	-	220+00	LT & RT	102				-	1,882	_	_	
	7	220+00	-	223+75	LT & RT	_	250	15		=	1,040	1,025	-	
TOTALS						300	1,200	330	30	150	5,300	1,320	155	335
						1,50	0	3	60	5,45	0			

PROJECT NO:6999-03-70 HWY:STH 54 COUNTY:WOOD MISCELLANEOUS QUANTITIES SHEET **E**

PLOT BY : sgc

MISCELLANEOUS PAVEMENT MARKING ITEMS

						646.5020	646.5120	646	5.7120	646.7420	646.7520	646.8120	646.8220	646.9310
						MARKING ARROW EPOXY	MARKING WORD EPOXY		G DIAGONAL Y 12-INCH YELLOW	MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH	MARKING CROSSWALK EPOXY LADDER PATTERN 24-INCH	MARKING CURB EPOXY	MARKING ISLAND NOSE EPOXY	MARKING REMOVAL SPECIAL MARKING WATER BLASTING
OATEOODY.	07405	OT A TION	т.	OTATION	OFFOFT						24 11011	<u> </u>		
<u>CATEGORY</u>	STAGE	STATION	10	STATION	OFFSET	EACH	EACH	<u>LF</u>	LF	LF	<u>L</u> F	LF	EACH	EACH
0010														
	3	199+45	-	201+25	LT & RT	_		_	_	=	_	_	_	5
	5 & 7	199+45	-	223+72	LT & RT	9	2	100	200	180	200	55	2	-
TOTALS						9	2	100	200	180	200	55	2	5
								3	300					

							CONSTR	UCTION STAKING	ITEMS			
						650.4000	650.5000	650.5500	650.8000	650.8500	650.9910	650.9920
						CONSTRUCTION STAKING STORM SEWER	CONSTRUCTION STAKING BASE	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER	CONSTRUCTION STAKING RESURFACING REFERENCE	CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (6999-03-70)	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (6999-03-70)	CONSTRUCTION STAKING SLOPE STAKES
CATEGORY	STAGE	STATION	TO	STATION	OFFSET	EACH	LF	LF	LF	LS	LS	LF
0010												
	1	201+25	-	224+40	LT & RT	_		_	2,315			
	3	201+25	-	210+59	LT & RT	3	934	934				934
	3	203+50	-	204+00	RT	_		36				
	3	206+72	-	207+21	RT	-		90				
		PF	ROJE	СТ		=		_		1	1	<u></u>
TOTALS						3	934	1,060	2,315	1	1	934

HWY:STH 54

LIGHTING CONDUIT AND WIRE ITEMS

CATEGORY	STAGE	FROM		ТО	652.0325 CONDUIT RIGID NONMETALLIC SCHEDULE 80 2-INCH LF	655.0630 ELECTRICAL WIRE LIGHTING 4 AWG LF
0010						
	3	EX SL	_	SL 100	140	1,050
	3	SL 100	-	SL 101	190	1,400
	3	SL 101	-	SL 102	215	1,575
	3	SL 102	-	SL 103	200	1,470
	3	SL 103	-	SL 104	200	1,470
	3	SL 104	-	EX SL	190	1,400
ΓALS					1,135	8,365

*CONDUCTOR QUANTITIES BASED ON AS-BUILT PLANS, WHICH SUGGEST 7 - #4 CONDUCTORS PER LINEAR FOOT OF CONDUIT

STREET LIGHTING ASSEMBLIES

					655.0610 ELECTRICAL WIRE	SPV.0060.04
					LIGHTING	REMOVE AND REINSTALL
		LIGHT			12 AWG	STREET LIGHT ASSEMBLY
CATEGORY	STAGE	NUMBER	STATION	OFFSET	LF	EACH
0010						
	3	SL100	202+24	31.5' RT	270	1
	3	SL101	204+13	31.5' RT	270	1
	3	SL102	206+25	31.5' RT	270	1
	3	SL103	208+25	27.7' RT	270	1
	3	SL104	210+25	26.3' RT	270	1
OTALS					1,350	5

SAWING ITEMS

						690.0150	690.0250	
						SAWING ASPHALT	SAWING CONCRETE	
CATEGORY	STAGE	STATION	TO	STATION	OFFSET	LF	LF	COMMENTS
0010								
	1	206+72	-	207+21	LT	125	_	
	3	201+25	-	210+59	LT & RT	1,140	15	
	3	203+50	-	204+50	RT	72	5	
	3	206+91	-	207+02	RT	11	_	
	4 & 5	201+25	-	210+59	LT & RT	254		MANHOLE ADJUSTMENTS
	5	206+30	-	206+56	LT	26	_	WOODBINE RD
	6	222+55	-	224+40	LT	22	105	
TOTALS						1,650	125	

MONUMENT ITEMS

				SPV.0060.05 RESEARCH AND LOCATE EXISTING LAND PARCEL MONUMENTS	SPV.0060.06 VERIFY AND REPLACE EXISTING LAN PARCEL MONUMENTS
CATEGORY	STAGE	STATION	LOCATION	EACH	EACH
0010					
	3	204+05	RT	1	1
	3	205+25	RT	1	1
TOTALS				2	2

FILE NAME: P:\48xx\4898.DP.15.STH54.WOOD\CADDS\69990370\SheetsPlan\030201_mq.dgn

PROJECT NO:6999-03-70

COUNTY: WOOD

MISCELLANEOUS QUANTITIES

PLOT SCALE: 1:20

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PLOT DATE: 10/30/2017

PLOT BY : sgc PLOT NAME :

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION TRANSPORTATION PROJECT PLAT TITLE SHEET

PROJECT NO. 6999-03-20

City of Wisconsin Rapids, Second Ave South

GAYNOR AVENUE TO STH 13

STH 54 WOOD COUNTY

CONVENTIONAL SYMBOLS R/W MONUMENT SECTION LINE CORNER NON-MONUMENTED QUARTER LINE SIXTEENTH LINE NOTATION FOR COMBUSTABLE NOTATION FOR FOUND IRON PIN NEW REFERENCE LINE FLUIDS VALVE IGAS. NEW R/W LINE Ø (TYPE WATER, ETC.) EXISTING R/W LINE NOTATION FOR HIGH VOLTAGE TRANSMISSION CAUTION SIGN PL. OFF-PREMISE 1-25 SIGN PROPERTY LINE LOT, TIE & OTHER MINOR LINES minni CORPORATE LIMITS COMPENSABLE NON-COMPENSABLE UNDERGROUND FACILITY ELECTRIC POLE TELEPHONE POLE

2111 FEE ACQUISITION AREA (HATCHING VARIES BY OWNER) 3555555

EASEMENT AREA EASEMENT AREA (HIGHWAY. PERMANENT LIMITED, OR RESTRICTED DEVELOPMENT) TRANSMISSION STRUCTURES - -

TEMPORARY LIMITED

BUILDING NATIONAL GEODETIC SURVEY MONUMENT @ SIXTEENTH CORNER MONUMENT

PEDESTAL (LABEL TYPE) (TV. TEL, ELEC. ETC.) ACCESS CONTROLLED BY ACQUISITION NO ACCESS BY STATUTORY AUTHORITY) **** ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL

> PARCEL NUMBER BRIDGE (40) UTILITY NUMBER

> > GAS TELEPHONE

ELECTRIC

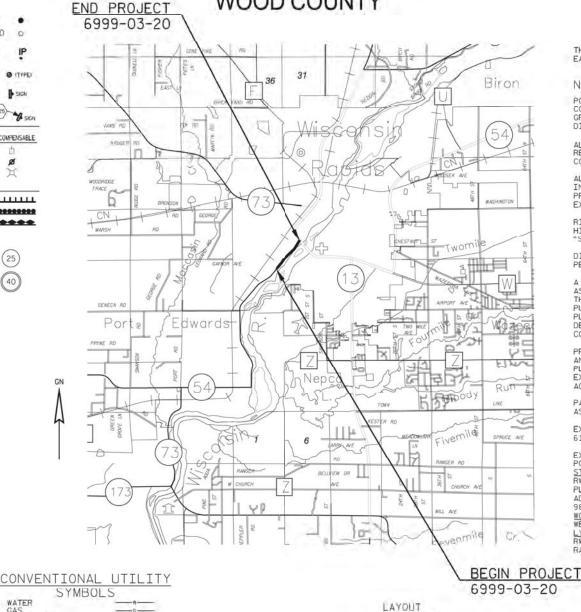
TRANSMISSION LINES

CABLE TELEVISION FIBER OPTIC

SANITARY SEWER STORM SEWER

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	POINT OF COMPOUND CURVE	PCC
ACCESS RIGHTS ACRES	AC	POINT OF INTERSECTION	PI
		PROPERTY LINE RECORDED AS REFERENCE LINE	PL
ALUMINUM AND OTHERS BACK	ALUM	RECORDED AS	(100')
AND OTHERS	ET AL	REFERENCE LINE	R/L
BACK	BK	REMAINING	REM
BACK BLOCK CENTERLINE	BLK	RIGHT	RT
CENTERLINE	C/L	RIGHT OF WAY	R/W
CERTIFIED SURVEY MAP	CSM	REMAINING RIGHT OF WAY SECTION SEPTIC VENT	SEC
CONCRETE	CONC	SEPTIC VENT	SEPV
COUNTY	CO	SQUARE FEET	SF
COUNTY TRUNK HIGHWAY	CTH	STATE TRUNK HICHWAY	STH
DISTANCE	DIST	STATION	STA
CORNER	COR	SUBDIVISION	SUBD
DOCUMENT NUMBER	DOC	STATION SUBDIVISION TANGENT	TAN
FASEMENT	FASE	TELEPHONE PEDESTAL	TP
EXISTING	EX	TEMPORARY LIMITED	TLE
GAS VALVE	GN	EASEMENT	
GRID NORTH		TRANSPORTATION PROJECT	TPP
HIGHWAY EASEMENT	HE	PLAT	
IDENTIFICATION	ID	UNITED STATES HIGHWAY	USH
LAND CONTRACT LEFT	LC	VOLUME	V
	LT		
MONUMENT	MON	CURVE DATA	
NATIONAL GEODETIC SURVEY			
	NO	LONG CHORD	LC
OUTLOT	OL	E CONTRACTOR DE	LCB
PAGE	P	RADIUS DEGREE OF CURVE	R
1	PT	CENTRAL ANGLE OR DELTA	Δ
	PLE	LENGTH OF CURVE	L
			T
	POB	TANGENT DIRECTION AHEAD	DA
POINT OF CURVATURE	PC	DIRECTION BACK	DB



THE NOTES, CONVENTIONAL SIGNS, AND ABBREVIATIONS ARE ASSOCIATED WITH EACH TRANSPORTATION PROJECT PLAT FOR PROJECT 6999-03-20

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, WOOD COUNTY, NADB3 (2011), IN U.S. SURVEY FEET, VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES, GRID DISTANCES MAY BE USED AS GROUND

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY $\frac{1}{4}$ " X 24" IRON REBAR), 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.

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 54 IS SHOWN FROM PREVIOUS RW PROJECT 6140-01-21 & 6999-05-61,

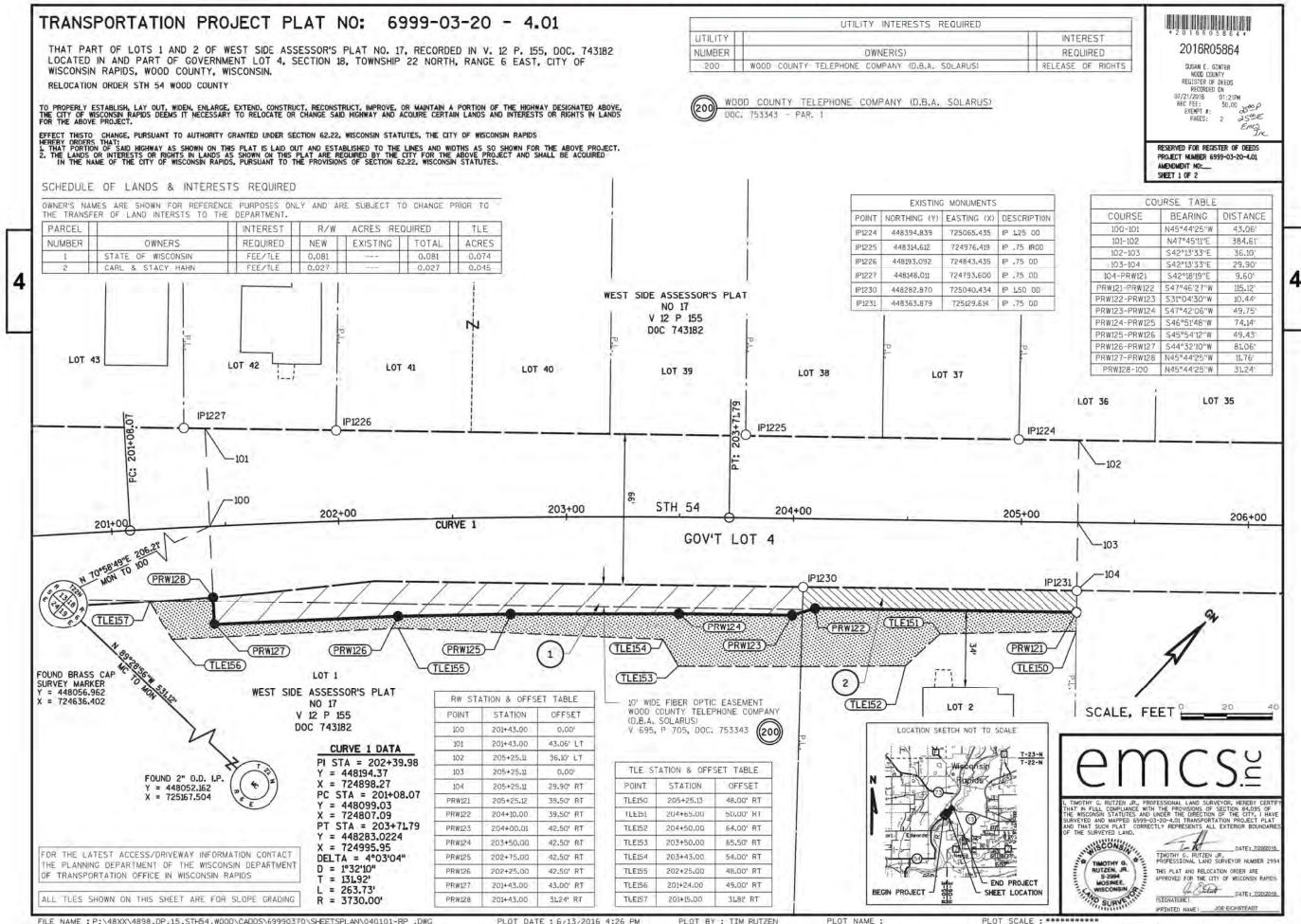
EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING

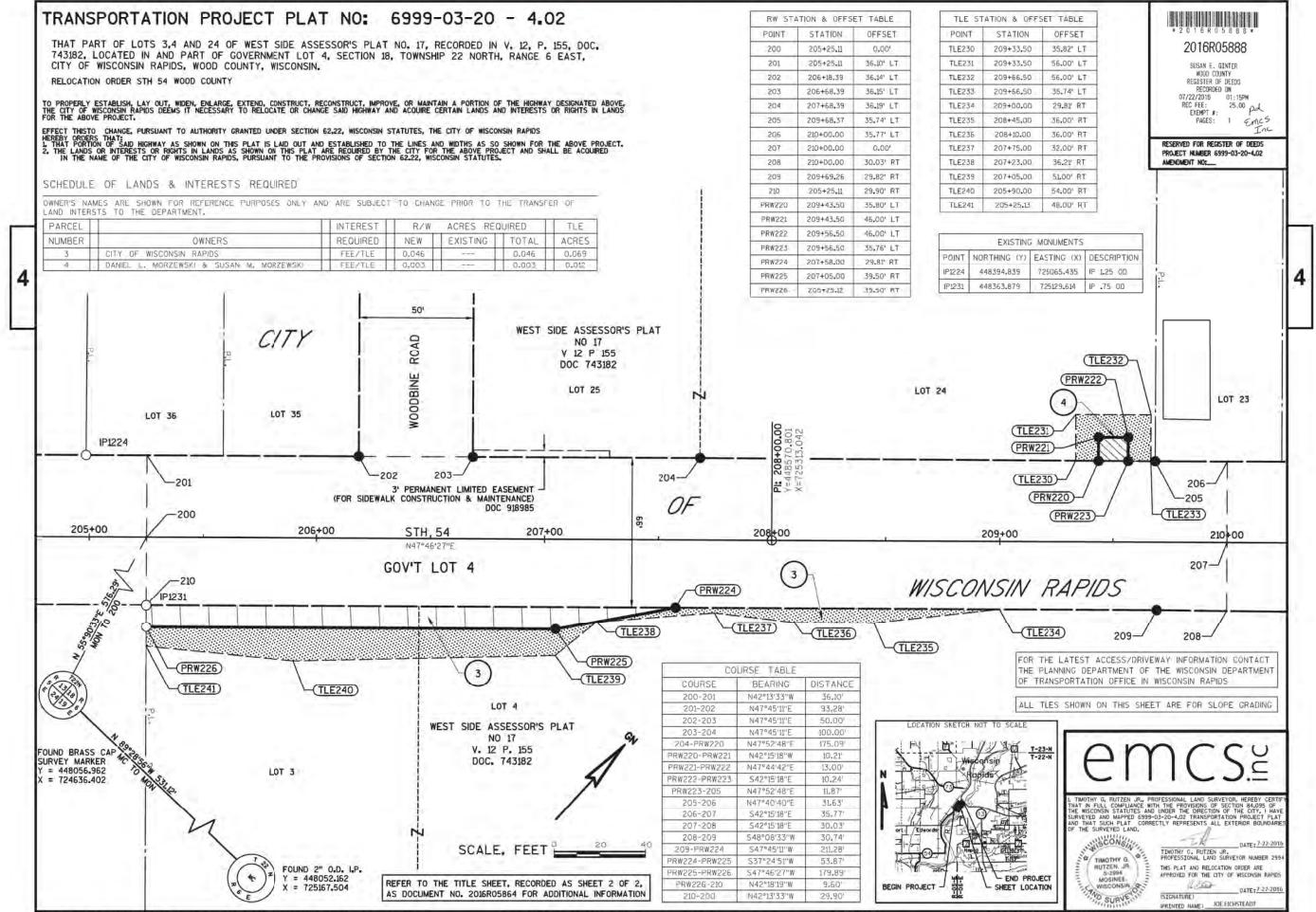
STH 54
STH 54
RW PROJECTS 6140-01-21, 6390-00-22, 6999-05-61, WEST SIDE ASSESSOR'S PLAT NO 17, RIVER PARK ADDTION TO CITY OF GRAND RAPIDS, LYON PARK ADDITION TO GRAND RAPIDS, CSM 9340, CSM 7205, CSM 7787, CSM 1287 & CSM

WOODBINE RD WEST SIDE ASSESSOR'S PLAT NO 17

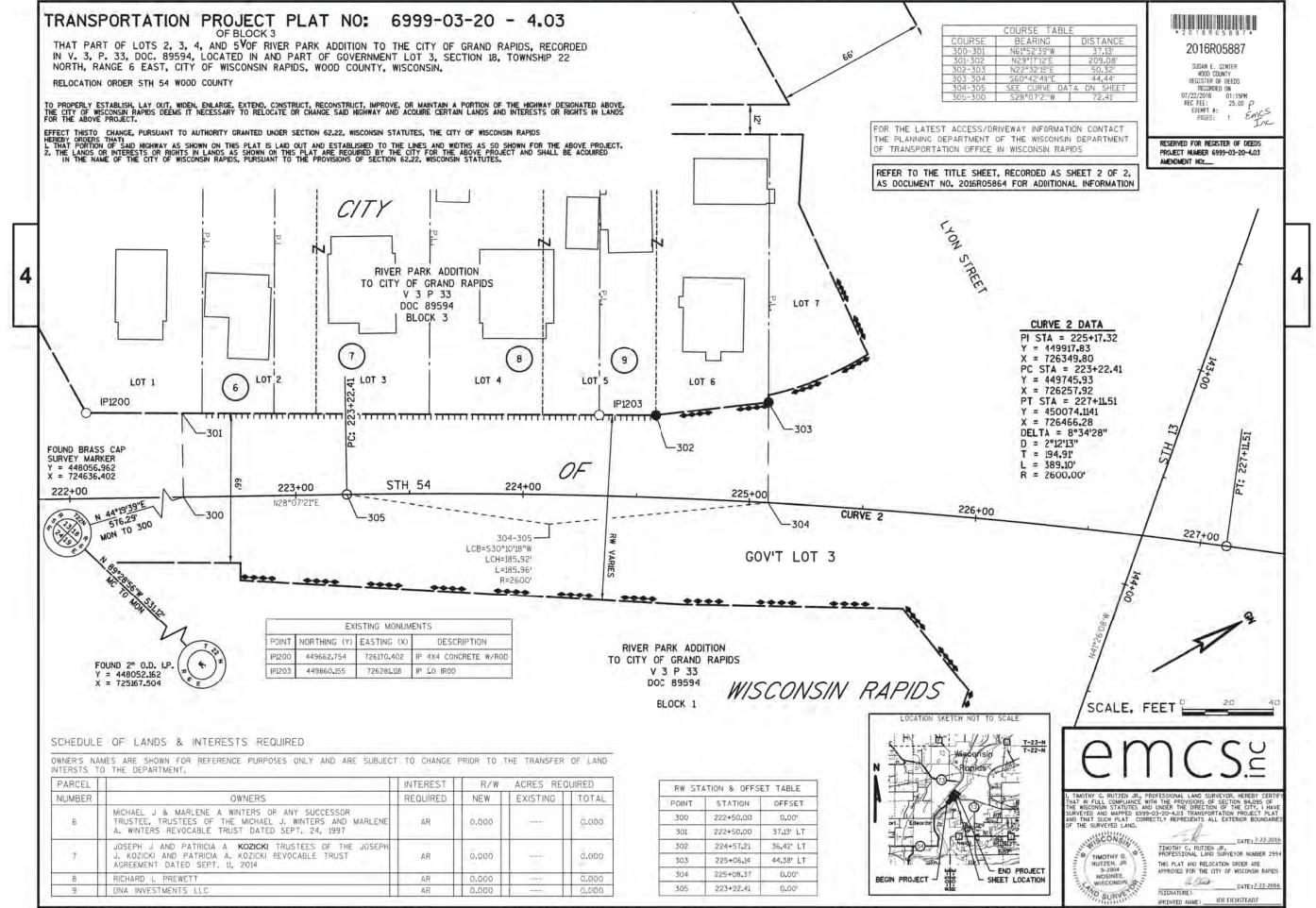
LYON SI RW PROJECT 6140-01-21, 6999-05-61 & RIVER PARK ADDITION TO CITY OF GRAND

RESERVED FOR REGISTER OF DEEDS PROJECT NUMBER 6999-03-20 - 4.01 SHEET 2 OF 2 AMENDMENT NO:

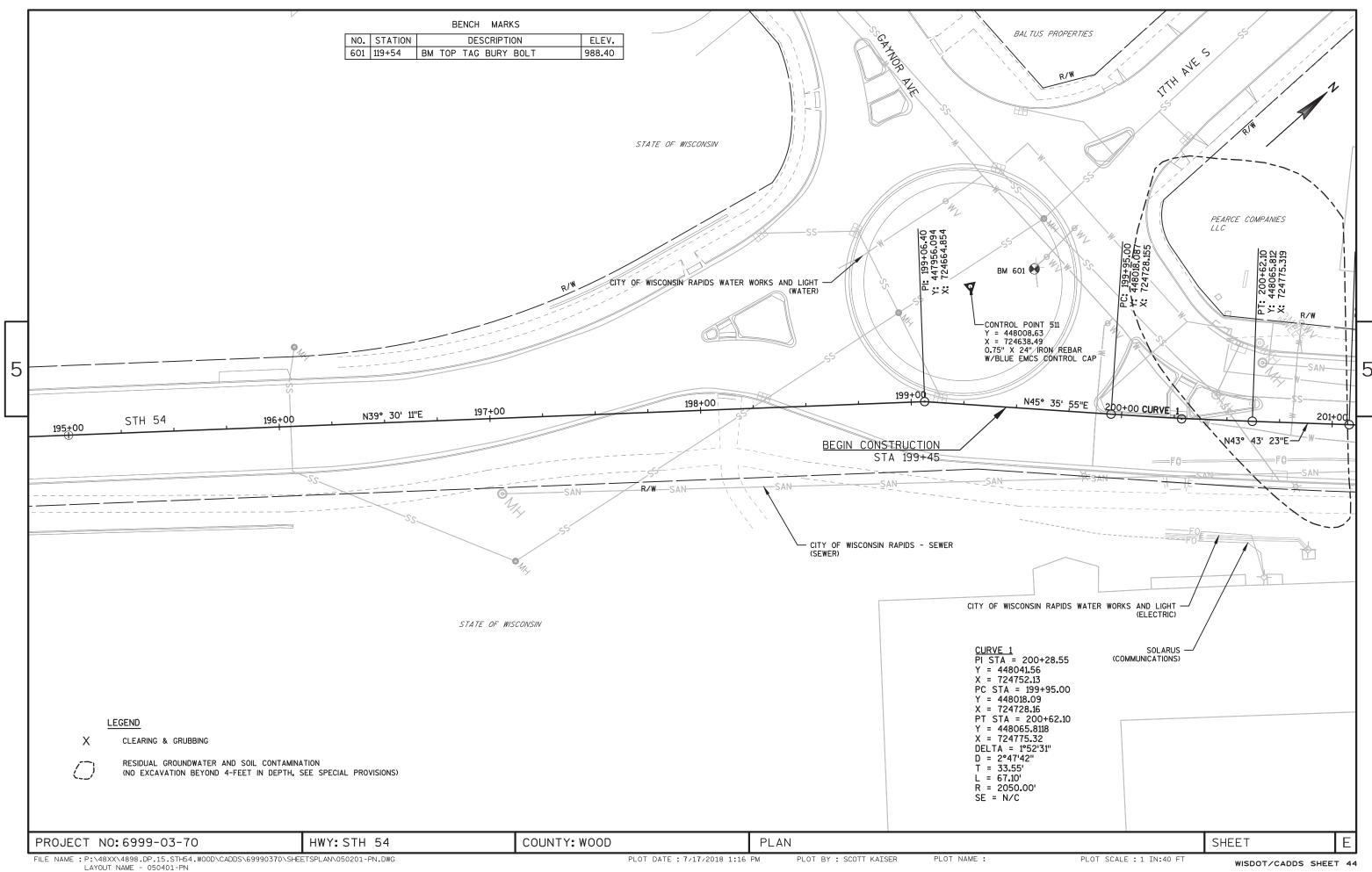


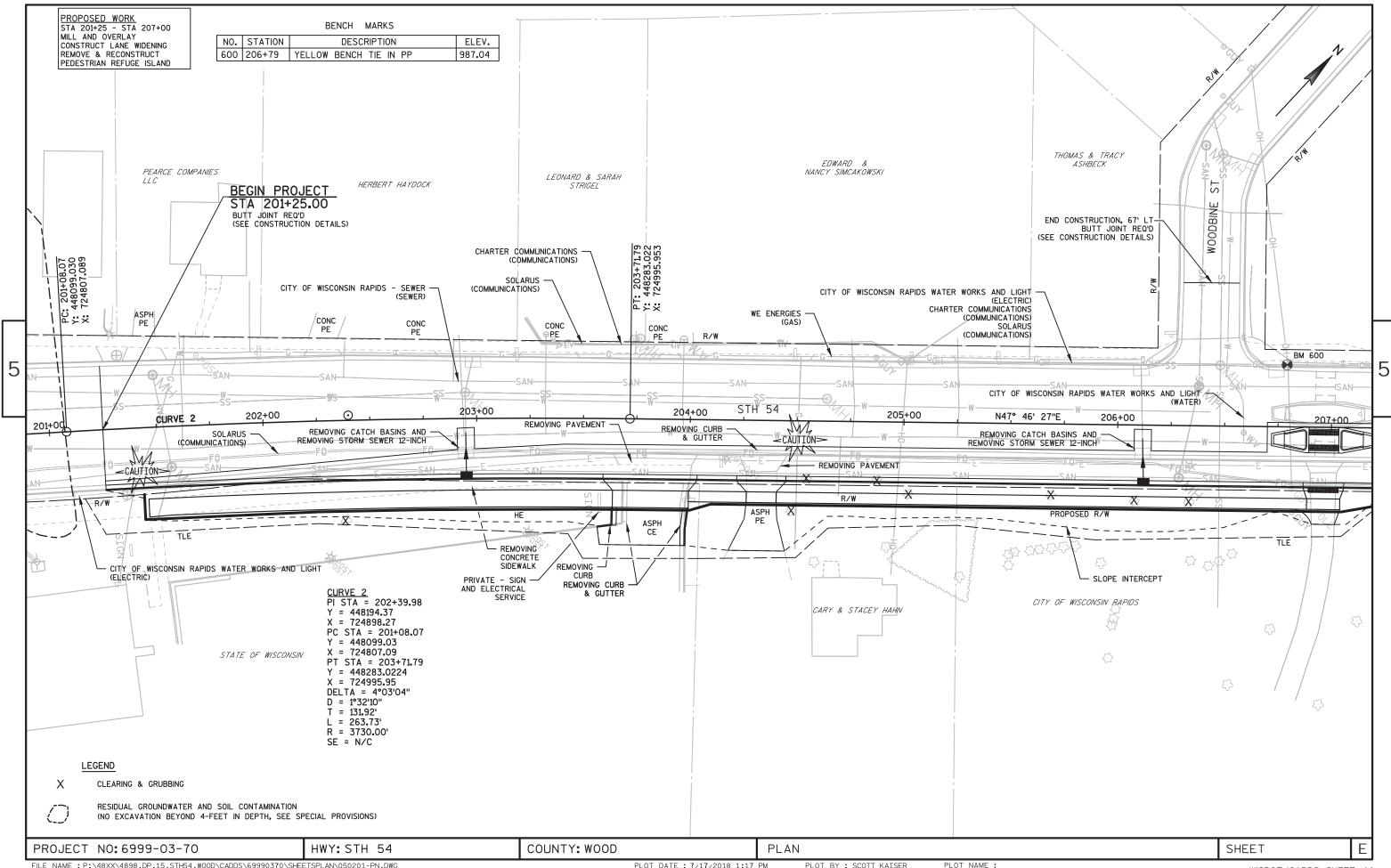


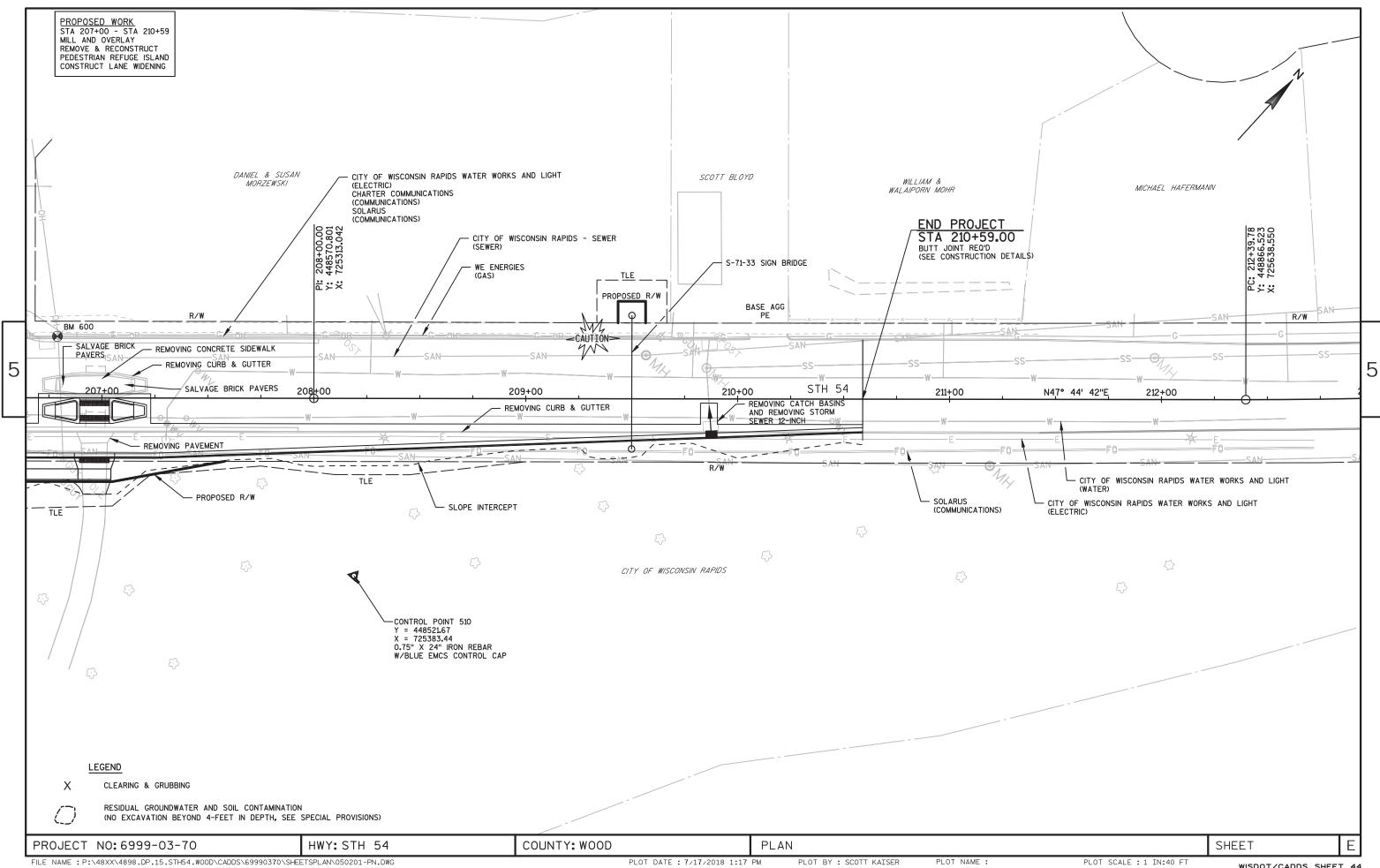
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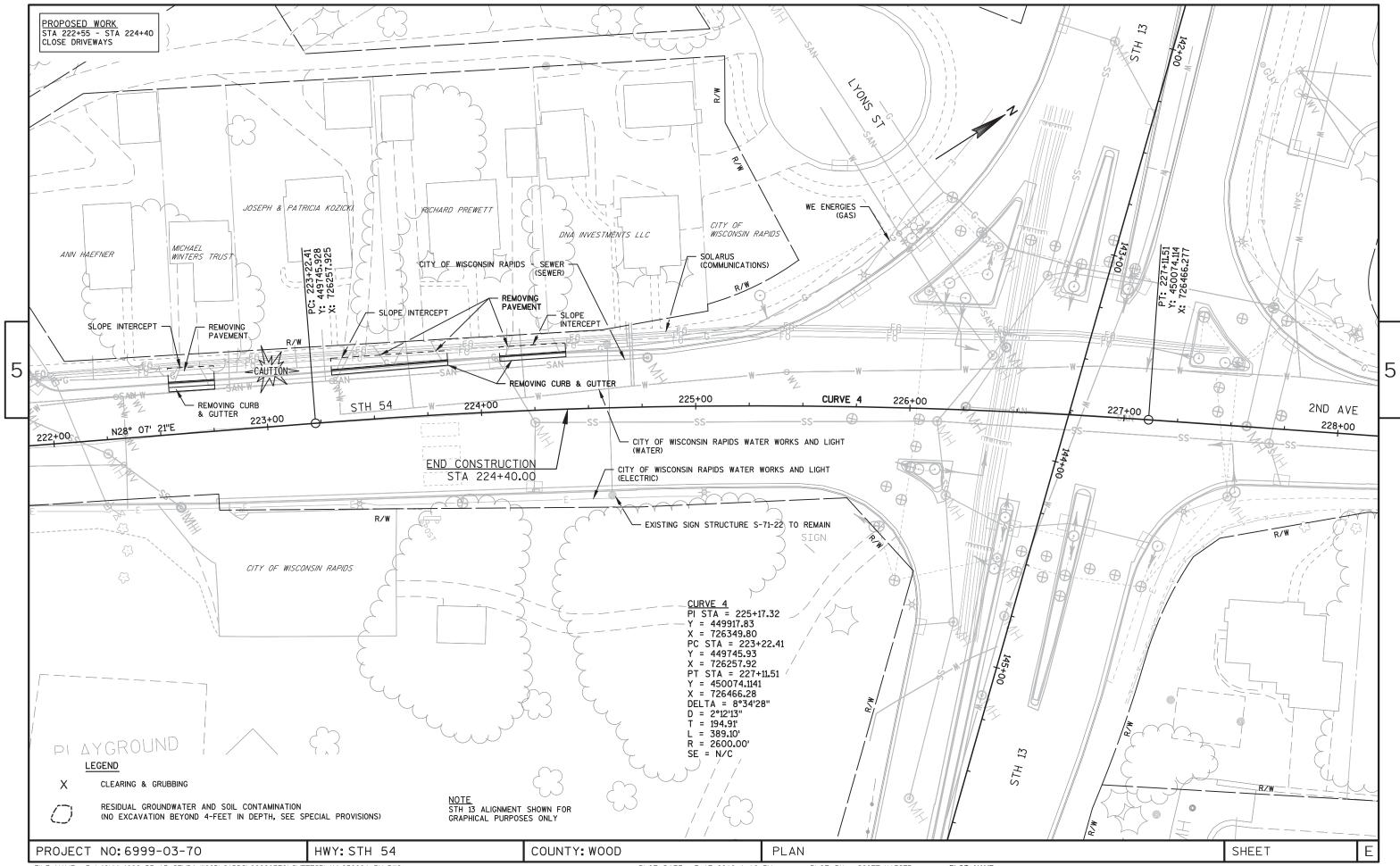


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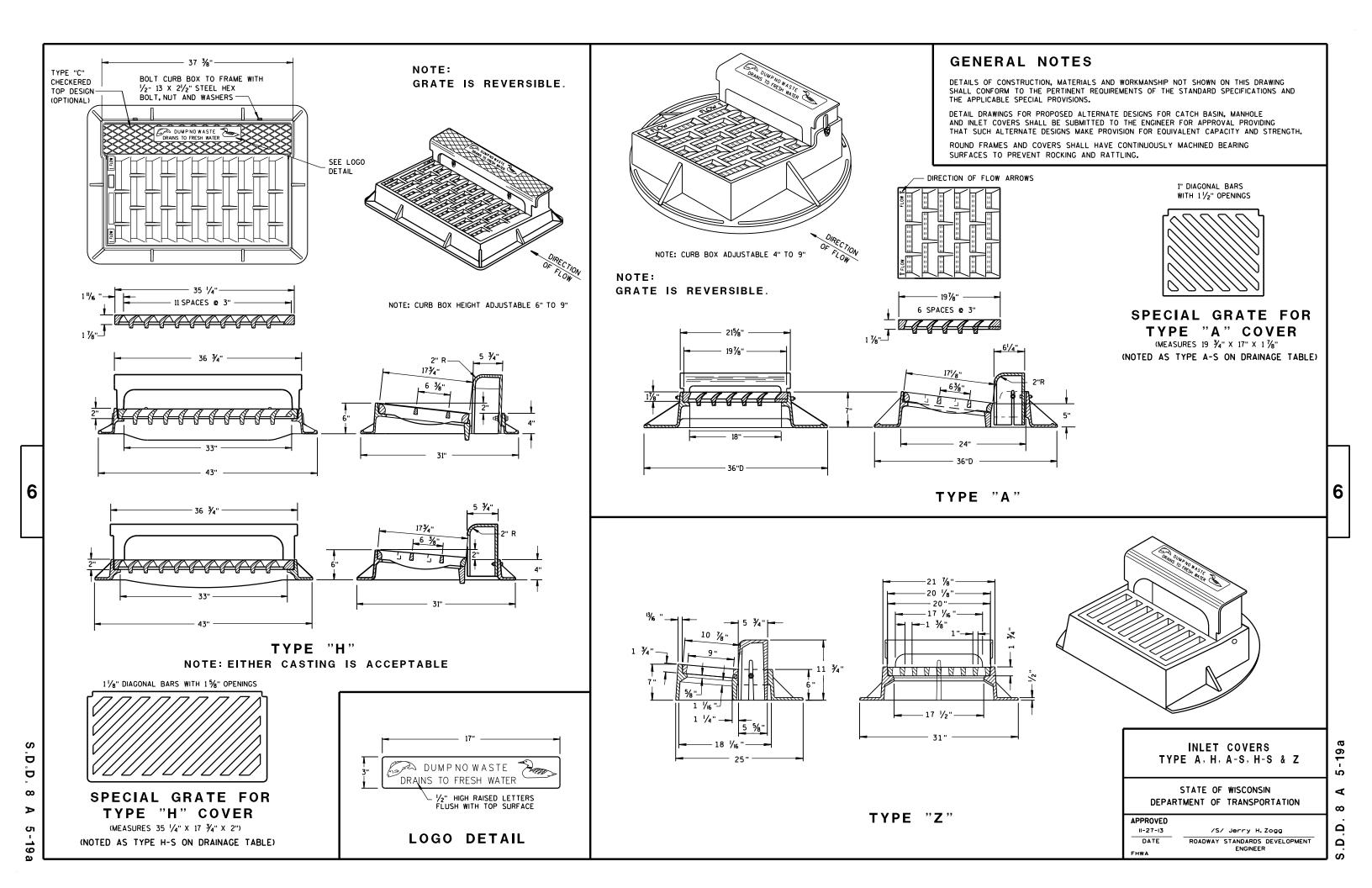


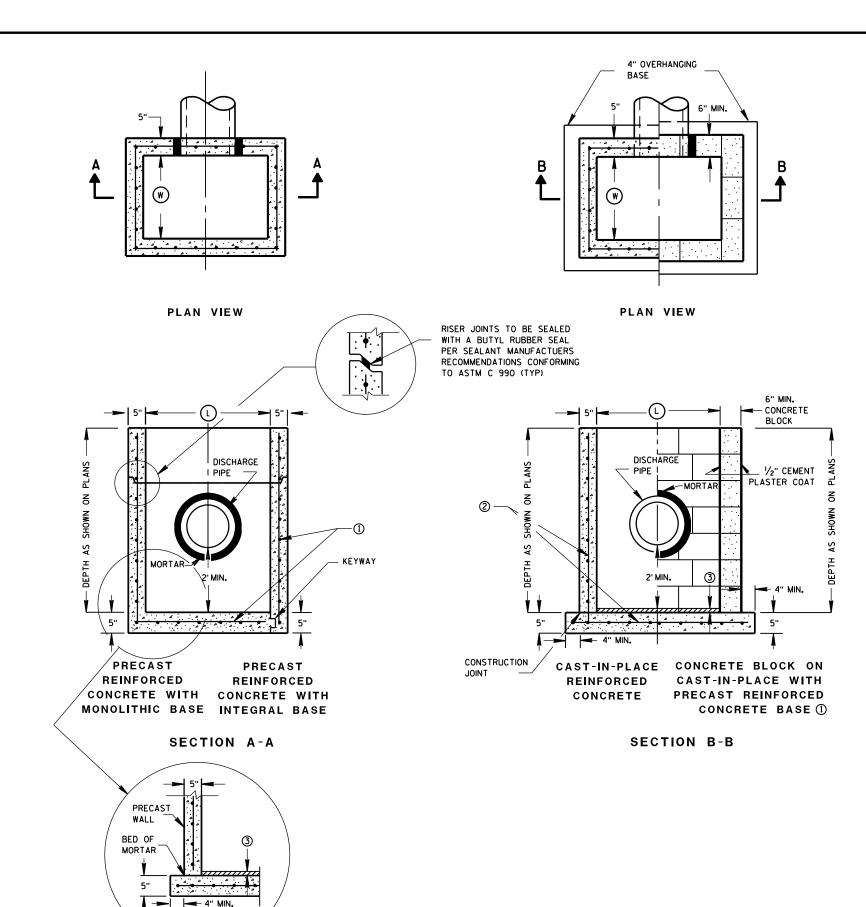




Standard Detail Drawing List

08A05-19A 08A09-02 08D01-20A	INLET COVERS TYPE A, H, A-S, H-S & Z CATCH BASINS 2X3-FT AND 2.5X3-FT CONCRETE CURB & GUTTER
08D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
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
08D18-02	DRI VEWAY AND SI DEWALK RAMPS TYPES X & Y
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09B02-10	CONDUIT TO THE POWER TO THE POW
09B04-11	PULL BOX
09E03-05	NON-FREEWAY LIGHTING UNIT POLE WIRING
11B02-02	CONCRETE MEDI AN NOSE
12A04-03	STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES & OVERHEAD SIGN SUPPORTS & TRAFFIC SIGNALS
15003-05	BARRI CADES AND SIGNS FOR SIDEROAD CLOSURES
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 15C08-19B	LONGI TUDI NAL MARKI NG (MAI NLI NE)
15C08-19B 15C08-19C	PAVEMENT MARKING (TURN LANES) PAVEMENT MARKING (TURN LANES)
15C08-19C 15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C11-07B	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C12-06 15C15-05	36" DIAMETER FULL SPAN OVERHEAD SIGN SUPPORT BASE
15C18-04	MEDIAN ISLAND MARKING
15C19-05B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C27-03B	PAVEMENT MARKING (ISLANDS)
15C33-03	STOP LINE AND CROSSWALK PAVEMENT MARKING
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





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 CATCH BASIN 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 PRECAST CATCH BASIN UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES 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.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND 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.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

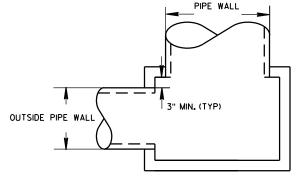
- (1) FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.
- ② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.
- (3) 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER MATRIX

CATCH BASIN SIZE		INLET COVER	F	ALL H'S
	WIDTH (W) (FT)	LENGTH (L) (FT)		
2X3-FT	2	3		х
2.5X3-FT	2.5	3	Х	

PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES				
CATCH BASIN SIZE	WIDTH (IN)	LENGTH (IN)			
2X3-FT	12	24			
2.5X3-FT	18	24			



DETAIL "A"

OUTSIDE

CATCH BASINS 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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APPROVED Sept., 2016

Sept. 2016 /S/ Rodney Taylor

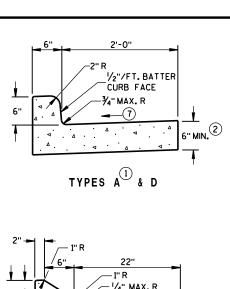
DATE ROADWAY STANDARDS DEVELOPMENT

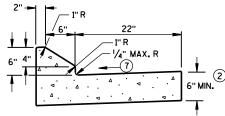
HWA UNIT SUPERVISOR

CATCH BASINS 2X3-FT AND 2.5X3-FT

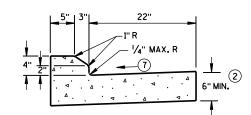
SEPARATE PRECAST REINFORCED

CONCRETE BASE OPTION

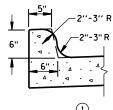




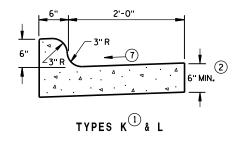
6" SLOPED CURB TYPES G 4 J



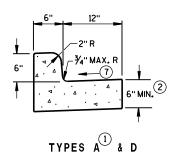
4" SLOPED CURB TYPES G 4 J



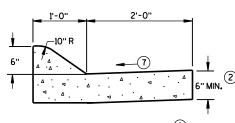
TYPES K (1) & L (OPTIONAL CURB SHAPE)



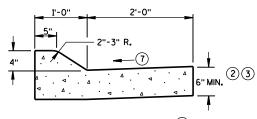
CONCRETE CURB & GUTTER 30"



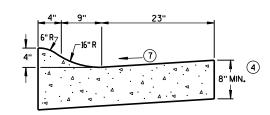
CONCRETE CURB & GUTTER 18"



6" SLOPED CURB TYPES A & D

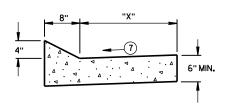


4" SLOPED CURB TYPES A D



4" SLOPED CURB TYPES R T & T

CONCRETE CURB & GUTTER 36"



TYPES TBT & TBTT

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'-O" 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
- (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'

6

20a

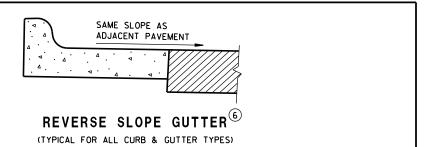
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CONCRETE PANEL WIDTH SAME PAY LIMITS TRAFFIC TRAFFIC LANE -AS CURB & GUTTER LANE PAVEMENT SLOPE PAVEMENT THICKNESS

PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



CONCRETE CURB & GUTTER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

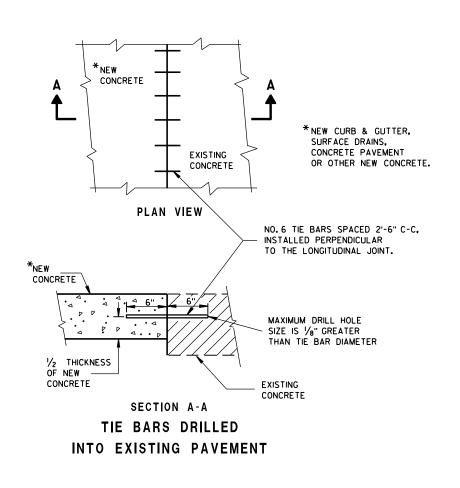
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^{*} BIKE LANE IS NOT SHOWN.

DETAIL OF CURB AND GUTTER AT INLETS (TYPE H INLET COVER SHOWN)

CONTRACTION **PAVEMENT**

END SECTION CURB & GUTTER



GENERAL NOTES

_ 1/2"/FT.BATTER,FACE OF CURB (ABOVE ADJACENT PAVEMENT)

ADJACENT

PAVEMENT

NO. 4 X 2'-0" DEF. TIE

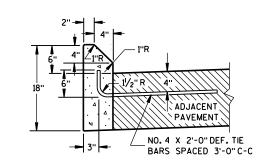
BARS SPACED 3'-0" C-C

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

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UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-O" BEHIND THE BACK OF CURBS.

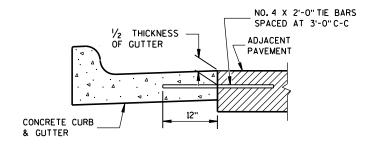
- 1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A.G.K.R AND TBTT.
- 2 THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- (9) REFER TO SDD 8D18 AND SDD 8D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



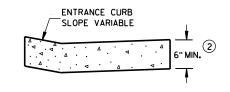
TYPES A D

TYPES G 4 J

CONCRETE CURB



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

/S/ Rodney Taylor June, 2017 DATE

ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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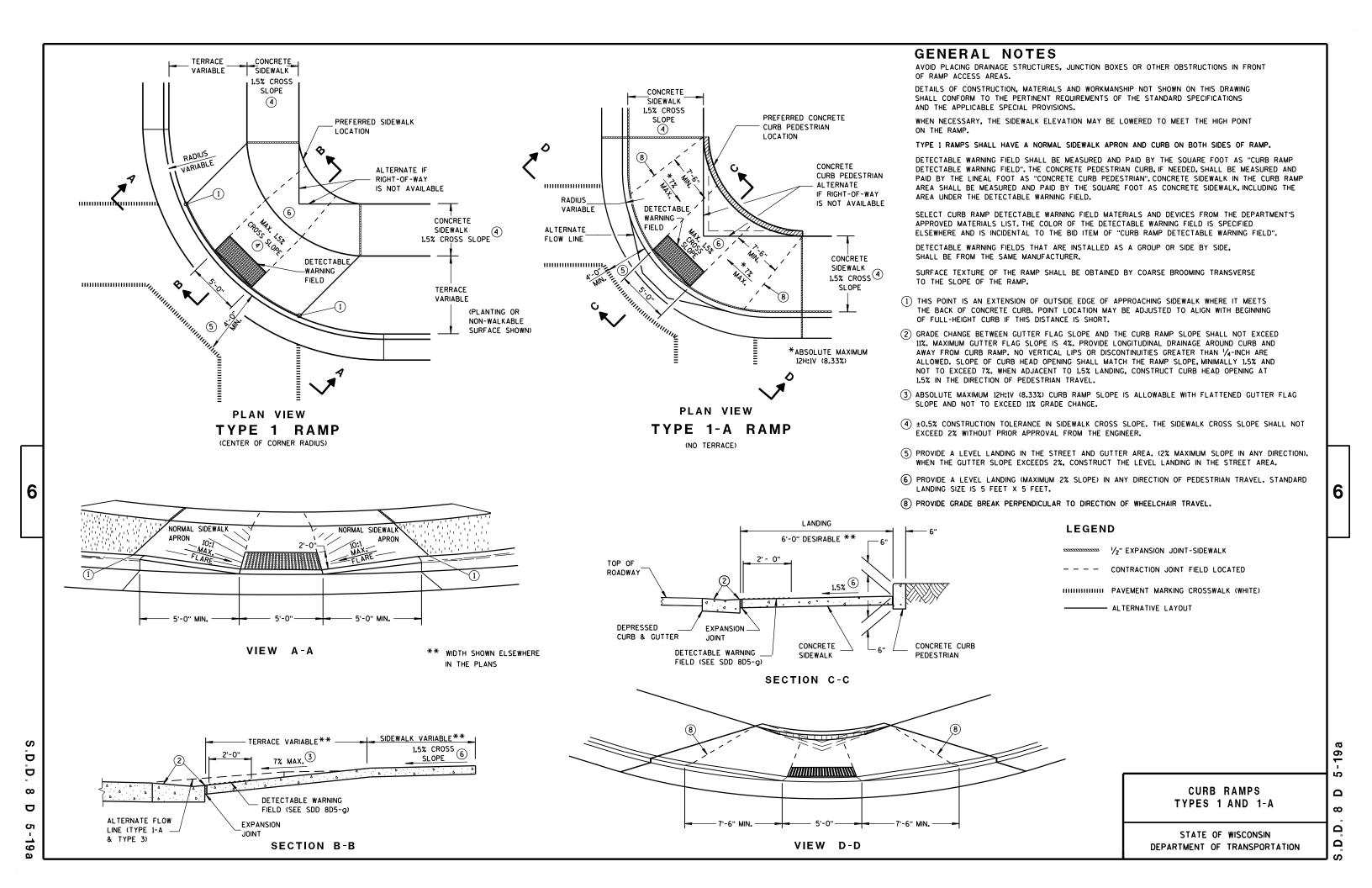
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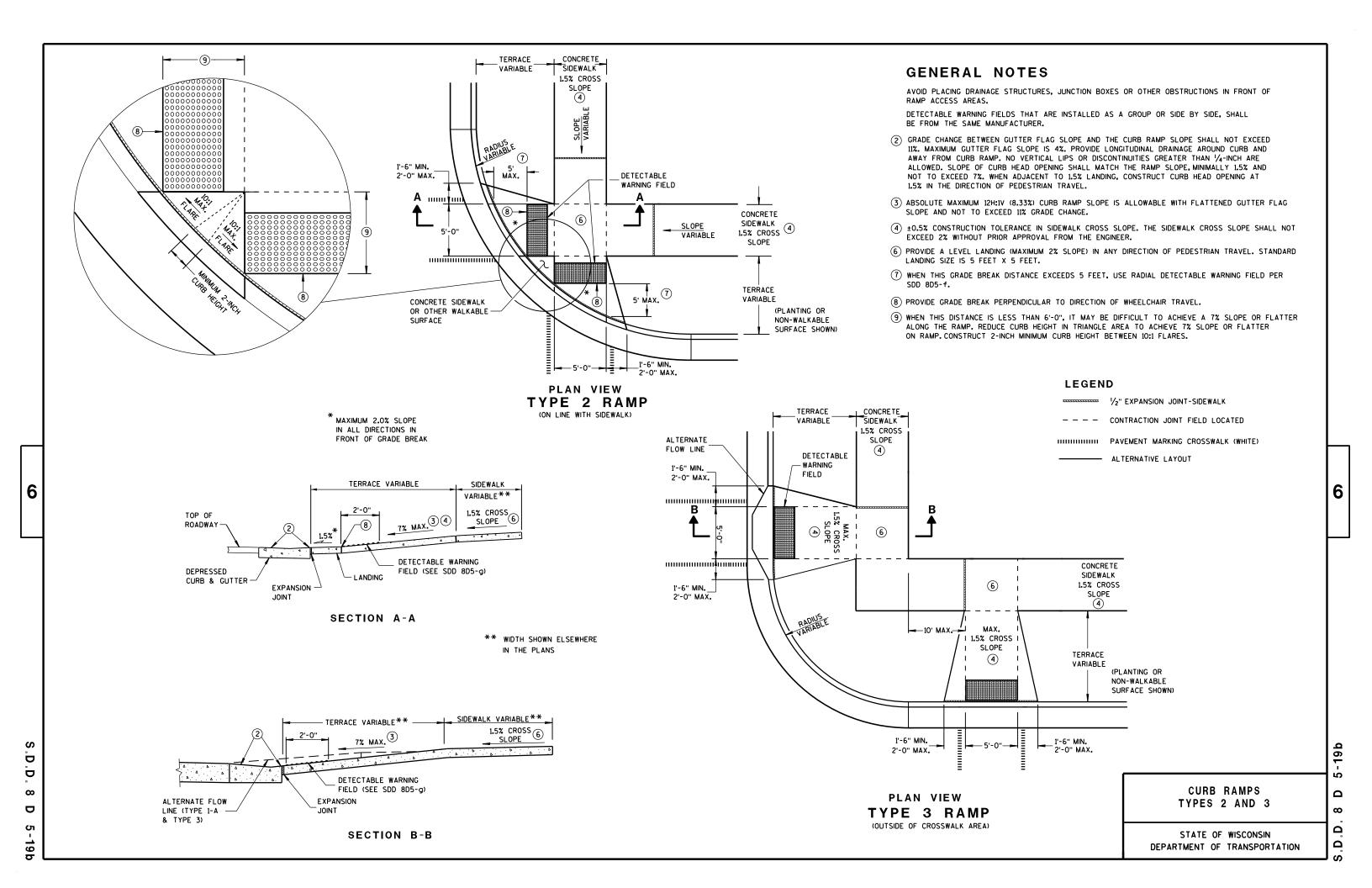
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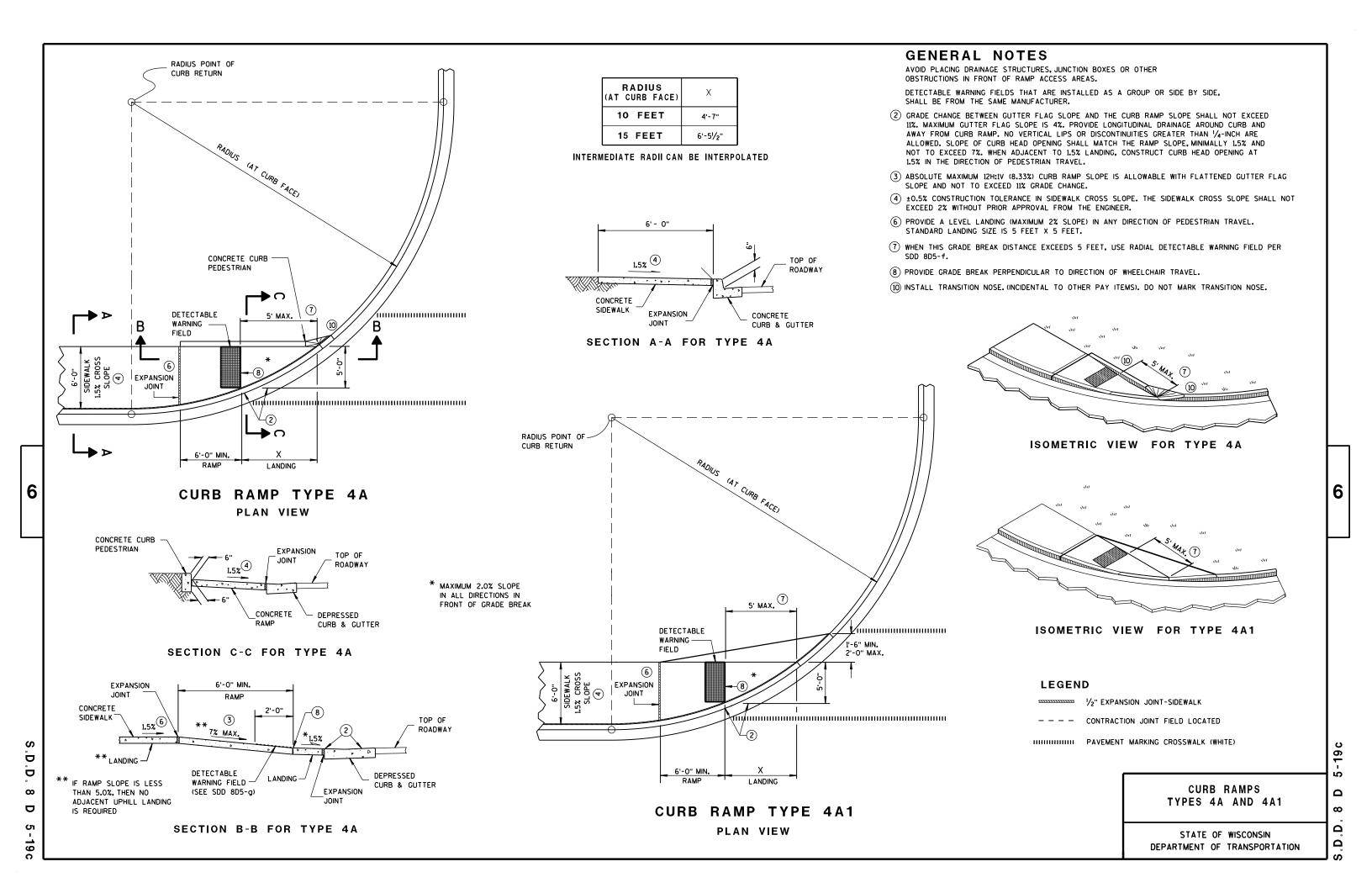
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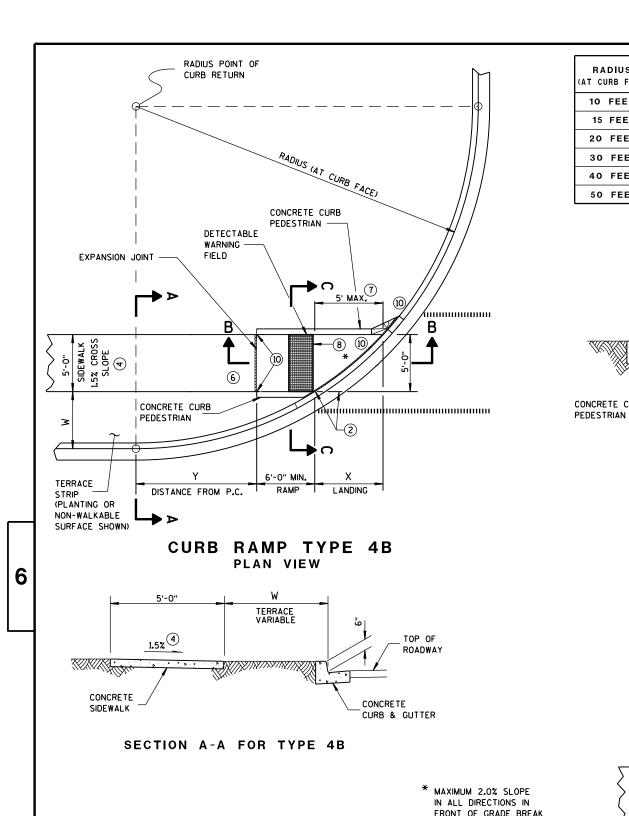
20b

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6'-0" MIN.

RAME

7% MAX.3

DETECTABLE

(SEE SDD 8D5-g)

SECTION B-B FOR TYPE 4B

WARNING

FIELD

EXPANSION

** LANDING

JOINT

F IF RAMP SLOPE IS LESS

ADJACENT UPHILL LANDING

THAN 5.0%, THEN NO

IS REQUIRED

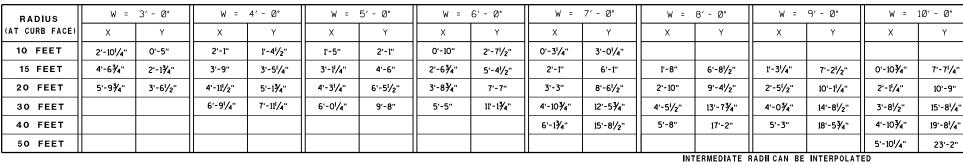
CONCRETE SIDEWALK

O D

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GENERAL NOTES

5'-0" RAMP

VARIES

0 TO 6"

<u>1.5%</u>

SECTION C-C FOR TYPE 4B

CONCRETE CURB

TOP OF

DEPRESSED

CURB &

GUTTER

EXPANSION

ROADWAY

TERRACE STRIP

VARIES O TO W

CONCRETE

CURB & GUTTER

ROADWAY

DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH

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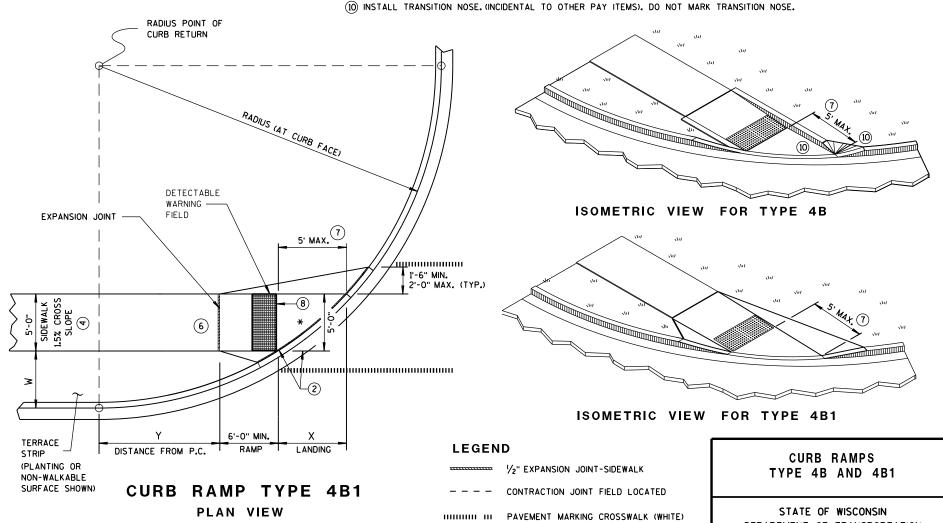
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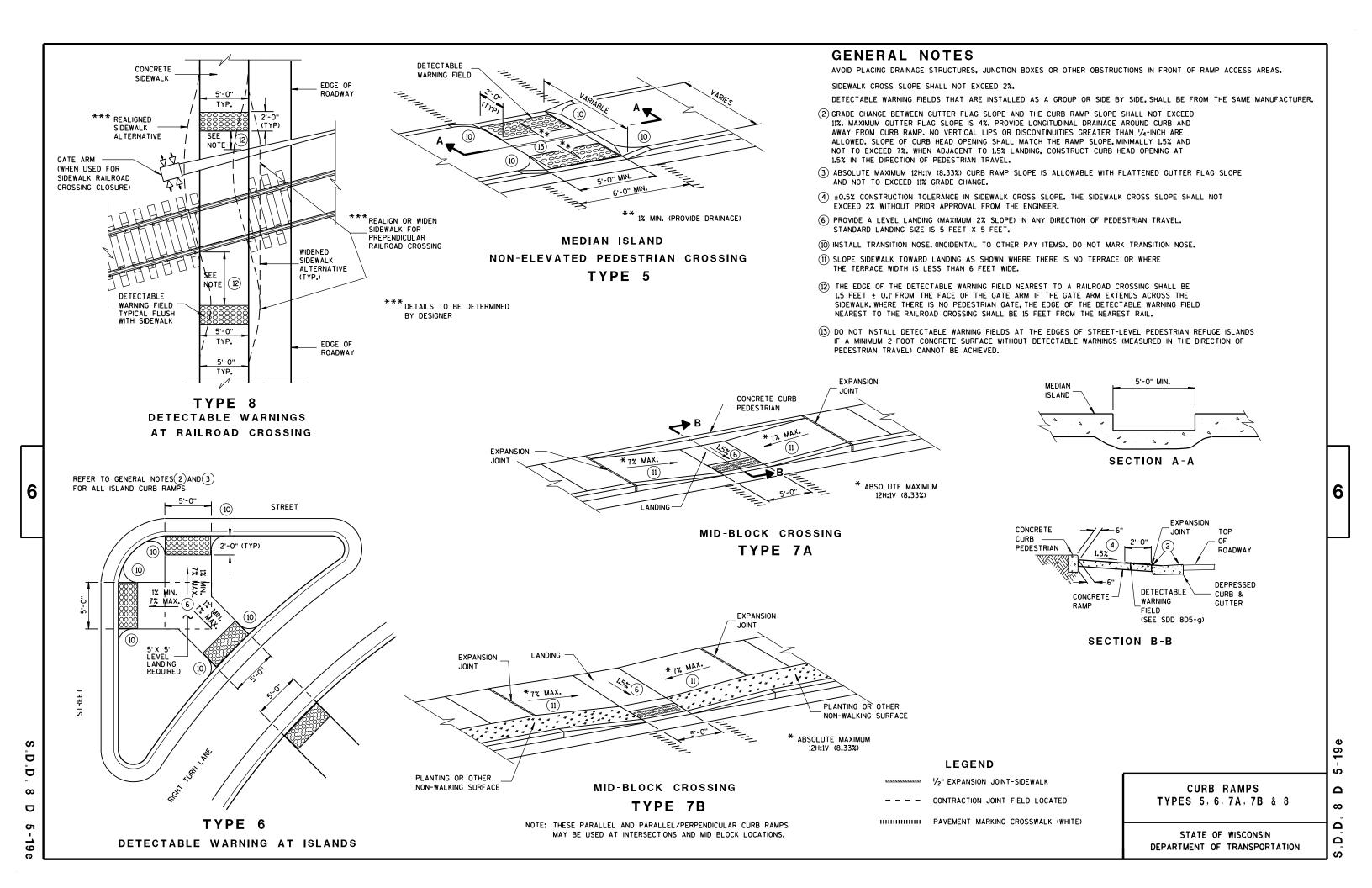
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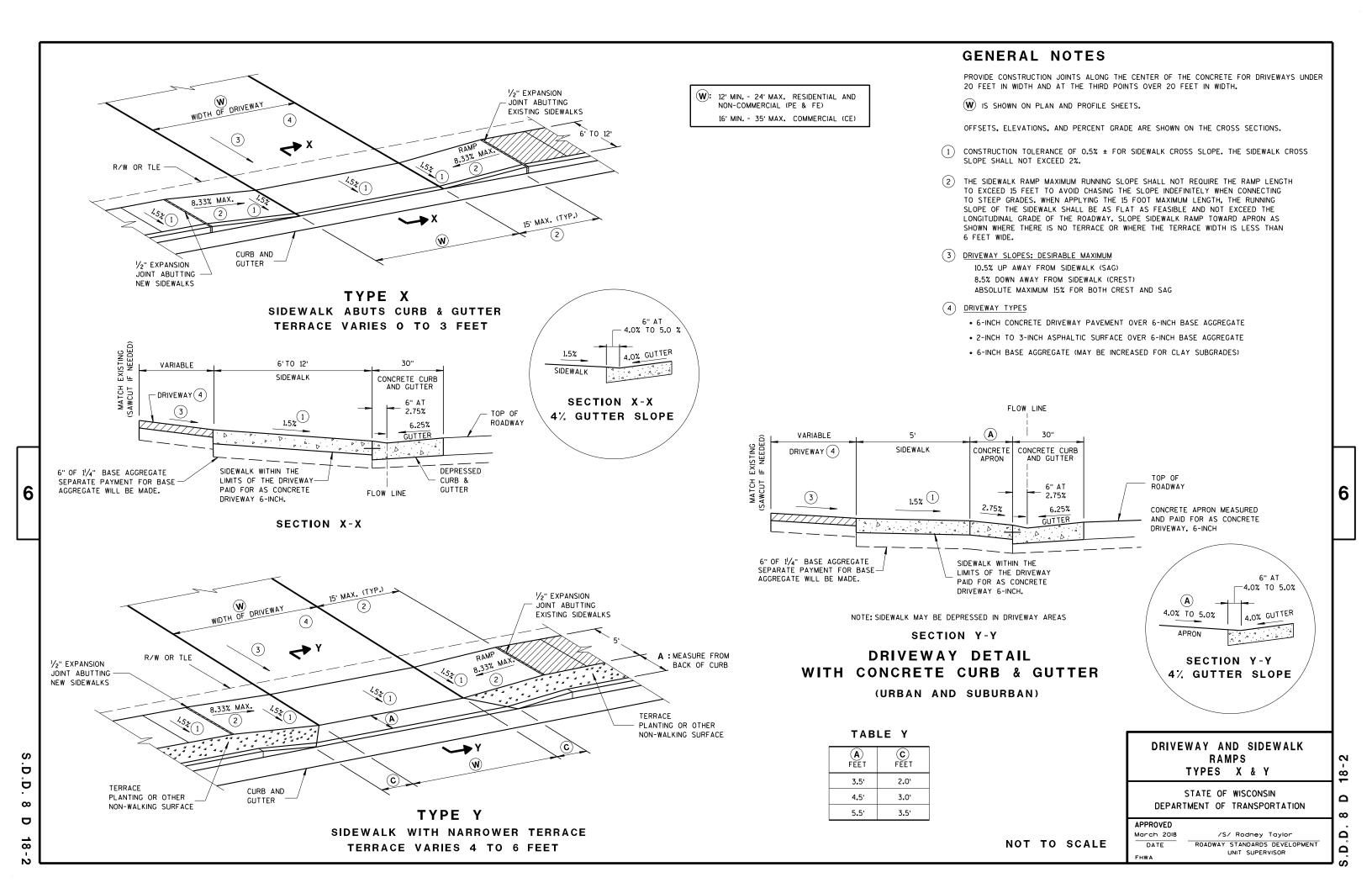
DEPARTMENT OF TRANSPORTATION

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.







TYPICAL APPLICATION OF SILT FENCE

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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.

- \bigcirc 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

S.D.D. 8 E 9-6





INLET PROTECTION, TYPE A

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

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.



INLET PROTECTION, TYPE C (WITH CURB BOX)

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

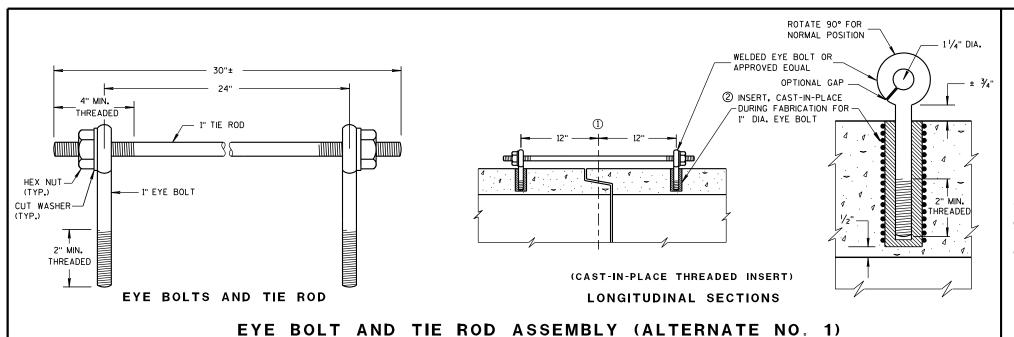
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/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

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GENERAL NOTES

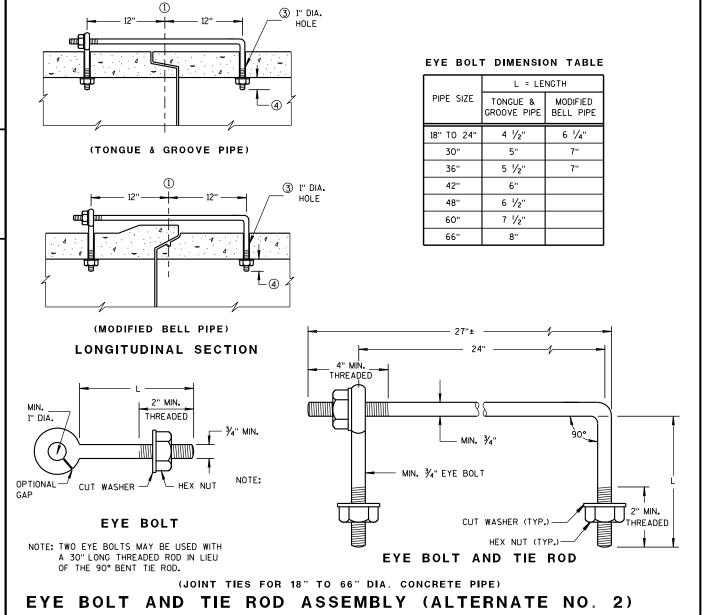
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

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.
- THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE
- ${\mathfrak S}$ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ${\mathfrak L}$ 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 $rac{1}{2}$ INCH OF THE INNER SURFACE OF THE PIPE.

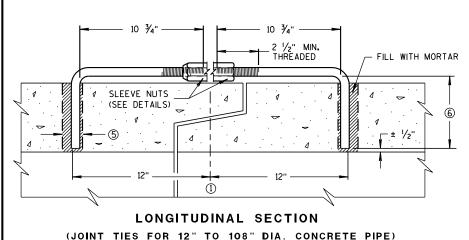


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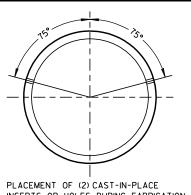
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ADJUSTABLE TIE ROD TABLE 5/8 5 12-60 3/4 5 1/2 3/4 90-108 DIMENSIONS SHOWN ARE IN INCHES **TAPERED** PLAIN RIGHT AND LEFT THREADS **SLEEVE NUTS**

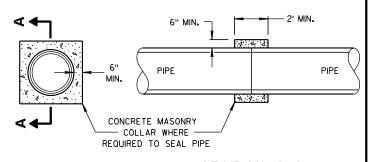


ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



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

6/5/2012

/S/ Jerry H. Zogg DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

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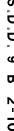
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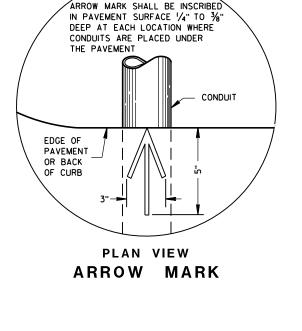


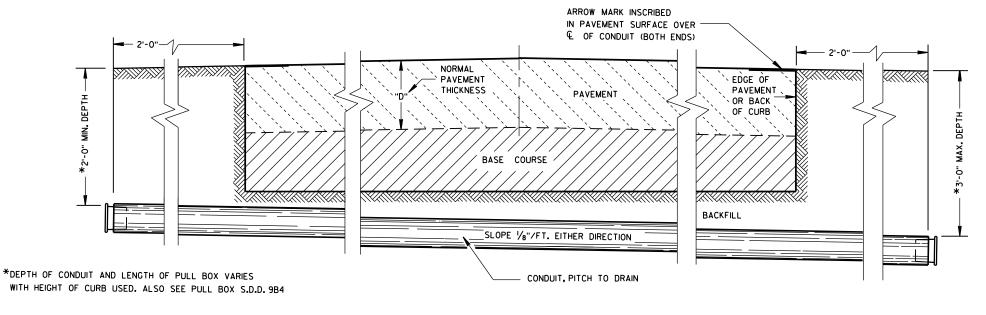












SIDE ELEVATION DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L.LISTED ADAPTER FITTINGS SHALL BE USED.

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REIN-STALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

TRACER WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.

CONDUIT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
March, 2017	/S/ Ahmet Demirbilek
DATE	STATE ELECTRICAL ENGINEER

DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	Α	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	В	24	30	36	24	30	36	36	42	48
WALL THICKNESS	С	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	Ε	14 1/2	14 1/2	14 1/2	20 ½	20 ½	20 ½	26 ½	26 ½	26 ½
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 ½	14 1/2	20 ½	20 ½	20 ½
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 ½	23 ½	23 ½
	WEIGHT IN POUNDS *									
FRAME AND COVER		60	60	60	110	110	110	155	155	155

- * THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.
- NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.

6" MAX. **EXTENSION** TOP OF ORIGINAL CORRUGATED PIPE (3) BOLTS, NUTS & LOCKWASHERS REQUIRED

ELECTRIC

FINAL GRADE

ALL METALLIC CONDUIT

AND THREADED

CUT OPENINGS

THE FIELD

2" PVC PIPE CAP ON BOTH ENDS

WITH 7, 8 1/4" HOLES DRILLED

IN EACH END.

PULL BOX

AS REQUIRED IN

ENDS SHALL BE REAMED

ALL CONDUIT PITCHED

4 TO 8 BRICKS

EQUALLY SPACED

TO DRAIN TO PULL BOXES

2" DRAIN DUCT TO

DITCH OR SEWER

WHEN SPECIFIED

CORRUGATED PIPE EXTENDER

HEAVY DUTY FRAME -

6" MIN.

(TYP.)

AND COVER

WHEN A PULL BOX IS INSTALLED IN CRUSHED

AGGREGATE SHOULDERS, PLACE IT 2-3

2-3 INCHES OF CRUSHED AGGREGATE

NO. 2 COARSE

(SEE SECTION 501

OF THE STANDARD

WIRE AND/OR CABLE.

INSTALL END BELLS (U.L. LISTED FOR

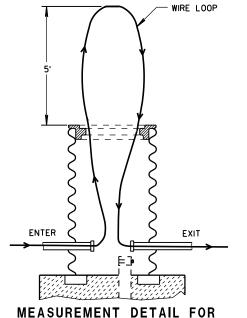
CONDUIT BEFORE INSTALLATION OF

ELECTRICAL USE) ON ALL NONMETALLIC

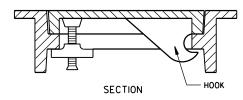
SPECIFICATIONS)

AGGREGATE

INCHES BELOW GRADE AND COVER IT WITH

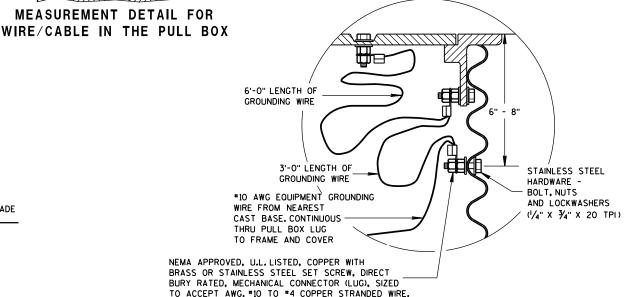


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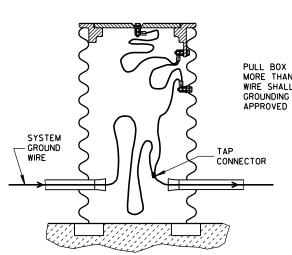


ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

PULL BOX

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2014 /S/ Ahmet Demirbilek DATE STATE ELECTRICAL ENGINEER FHWA

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED. SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.

TRAFFIC LOADS.

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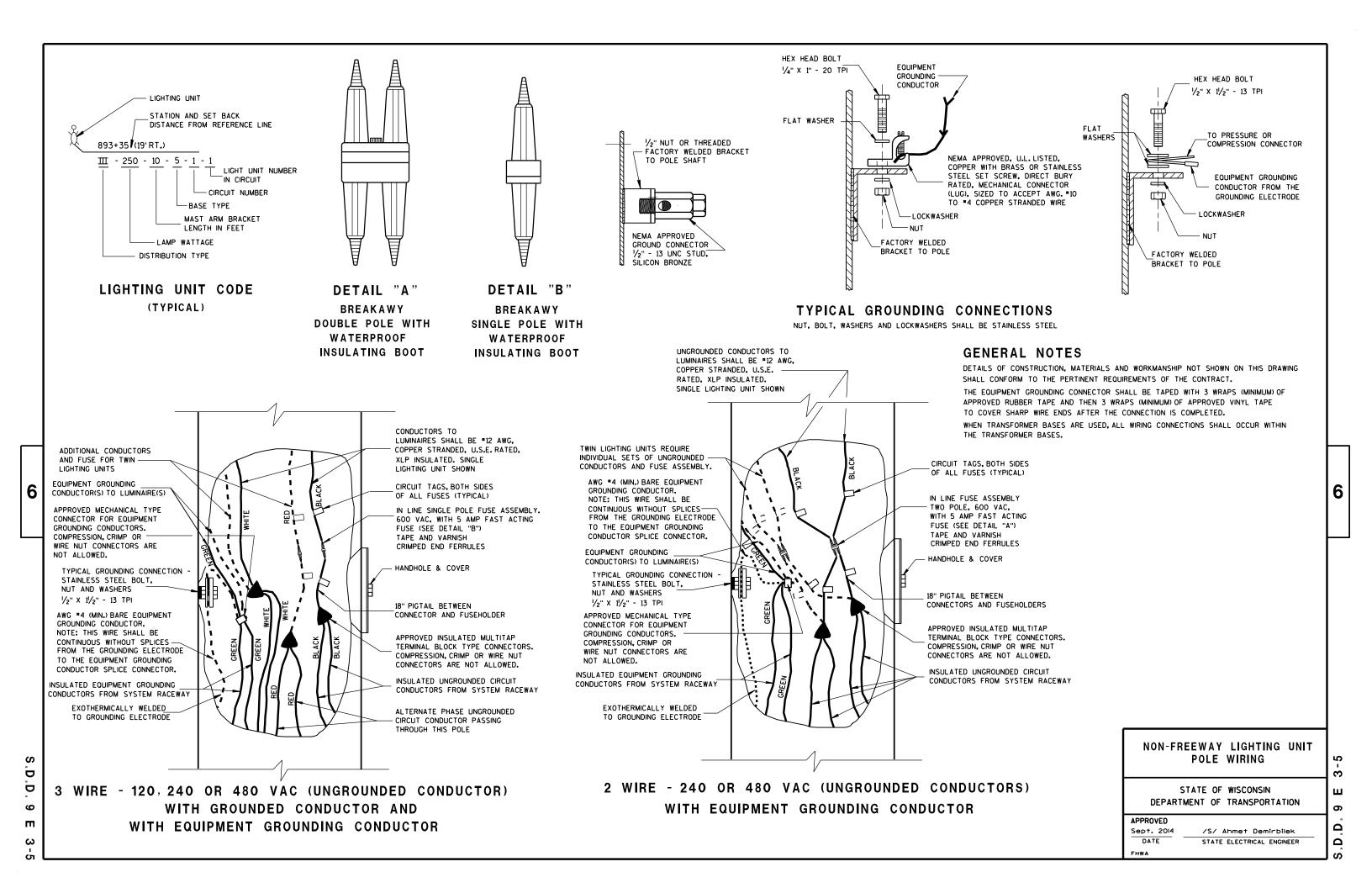
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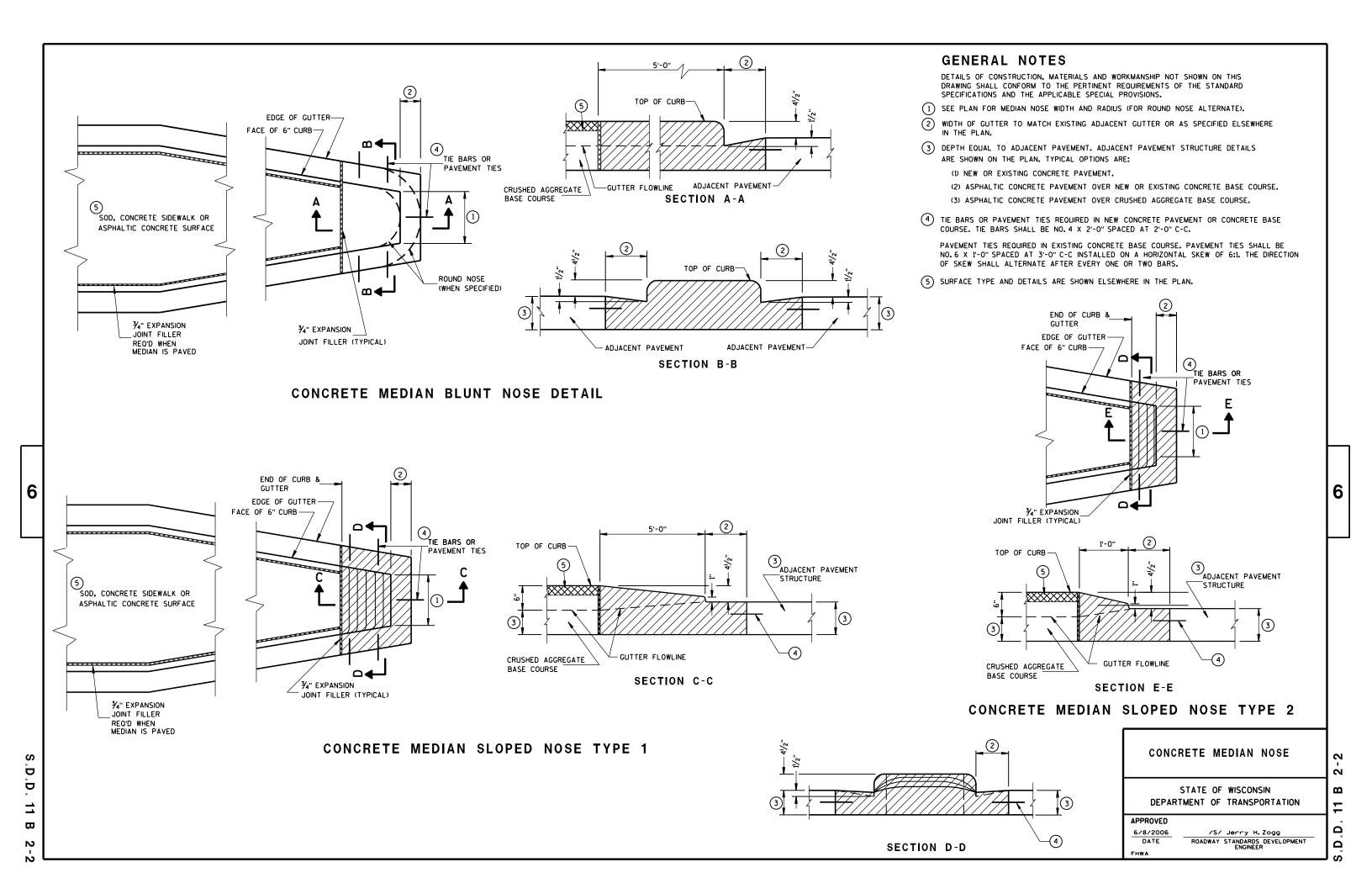
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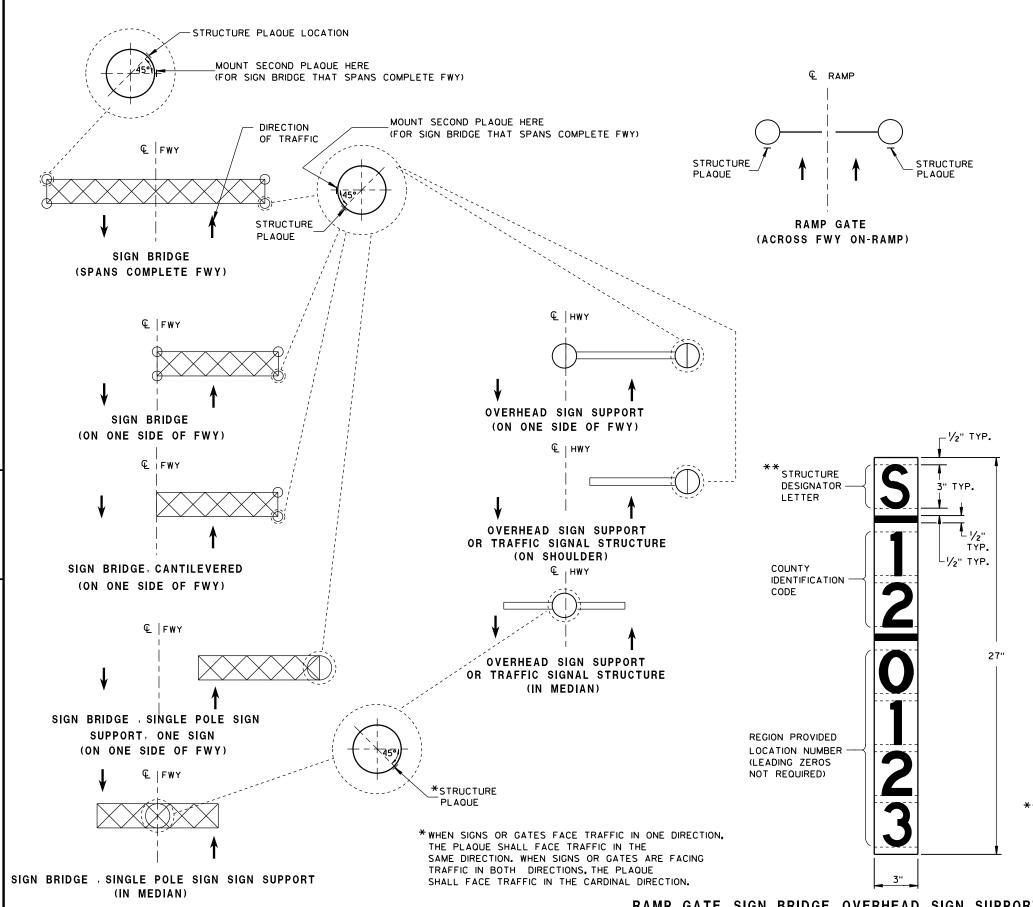
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LOCATION OF RAMP GATE, SIGN BRIDGE, OVERHEAD

SIGN SUPPORT & TRAFFIC SIGNAL STRUCTURE PLAQUES

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN IN THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

IF THE PROPOSED SIGN BRIDGE OR OVERHEAD SIGN SUPPORT IS REPLACING AN EXISTING SIGN BRIDGE OR OVERHEAD SIGN SUPPORT, A NEW IDENTIFICATION PLAQUE WILL BE REQUIRED.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - 3 STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - 3 ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

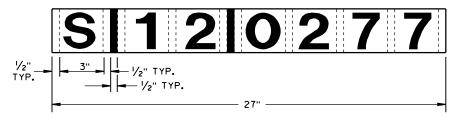
FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETROREFLECTIVE

LINES - BLACK, 1/2" WIDE, SELF-ADHESIVE

CHARACTERS:- BLACK, SELF ADHESIVE, SERIES "D", SIZE AS SHOWN.

FOR SIGN BRIDGES, STRUCTURE MOUNTED, THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY AS SHOWN ON THE DRAWING. THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY TO THE BACK OF THE SIGN, BETWEEN THE ALUMINUM EXTRUSIONS, NEAR THE TOP LEFT HAND CORNER OF THE SIGN. THE BASE MATERIAL SHALL BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE ALUMINUM SURFACE. PRIOR TO ADHERING THE MATERIAL, THE ALUMINUM SURFACE SHALL BE SMOOTH, CLEAN AND DRY.

WHERE SIGN BRIDGE ILLUMINATION IS PROVIDED, THE STRUCTURE MUST ALSO HAVE A SIGN BRIDGE CIRCUIT PLAQUE AS SHOWN IN THE ELECTRICAL DETAILS.



IDENTIFICATION PLAQUE FOR SIGN BRIDGE, STRUCTURE MOUNTED

** LETTER "G" UTILIZED FOR RAMP GATES. LETTER "S" UTILIZED FOR SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, AND TRAFFIC SIGNALS.

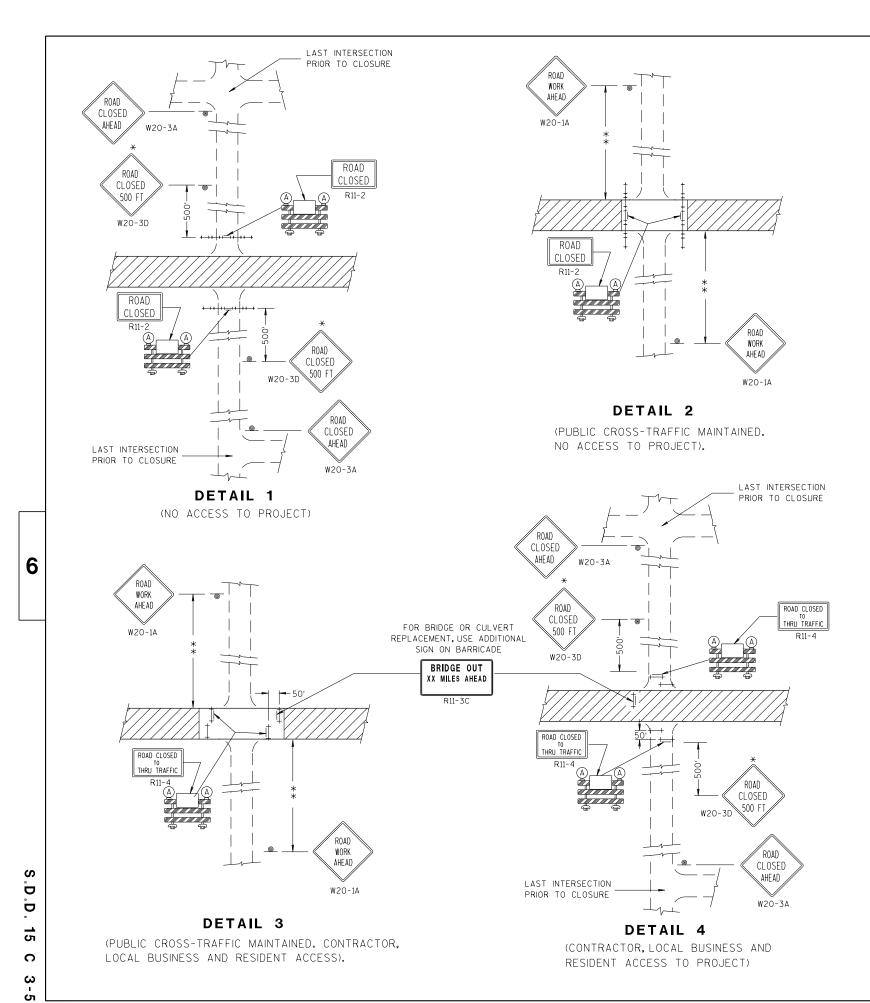
STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, & TRAFFIC SIGNALS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

DATE STATE TRAFFIC ENGINEER OF DESIGN

RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT AND TRAFFIC SIGNAL STRUCTURE PLAQUE FOR SIGN BRIDGES AND OVERHEAD SIGN SUPPORT WHICH ARE NOT STRUCTURE MOUNTED



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

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)



BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018 /S/ Andrew Heid+ke
DATE WORK ZONE ENGINEER

S.D.D. 15 C 3

MAINLINE ROADWAY UNDER CONSTRUCTION

ROAD

WORK

AHEAD

CENTER OF ROADWAY

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"×48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48"

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.

imes The Third W20-1Sign 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.



SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED 6

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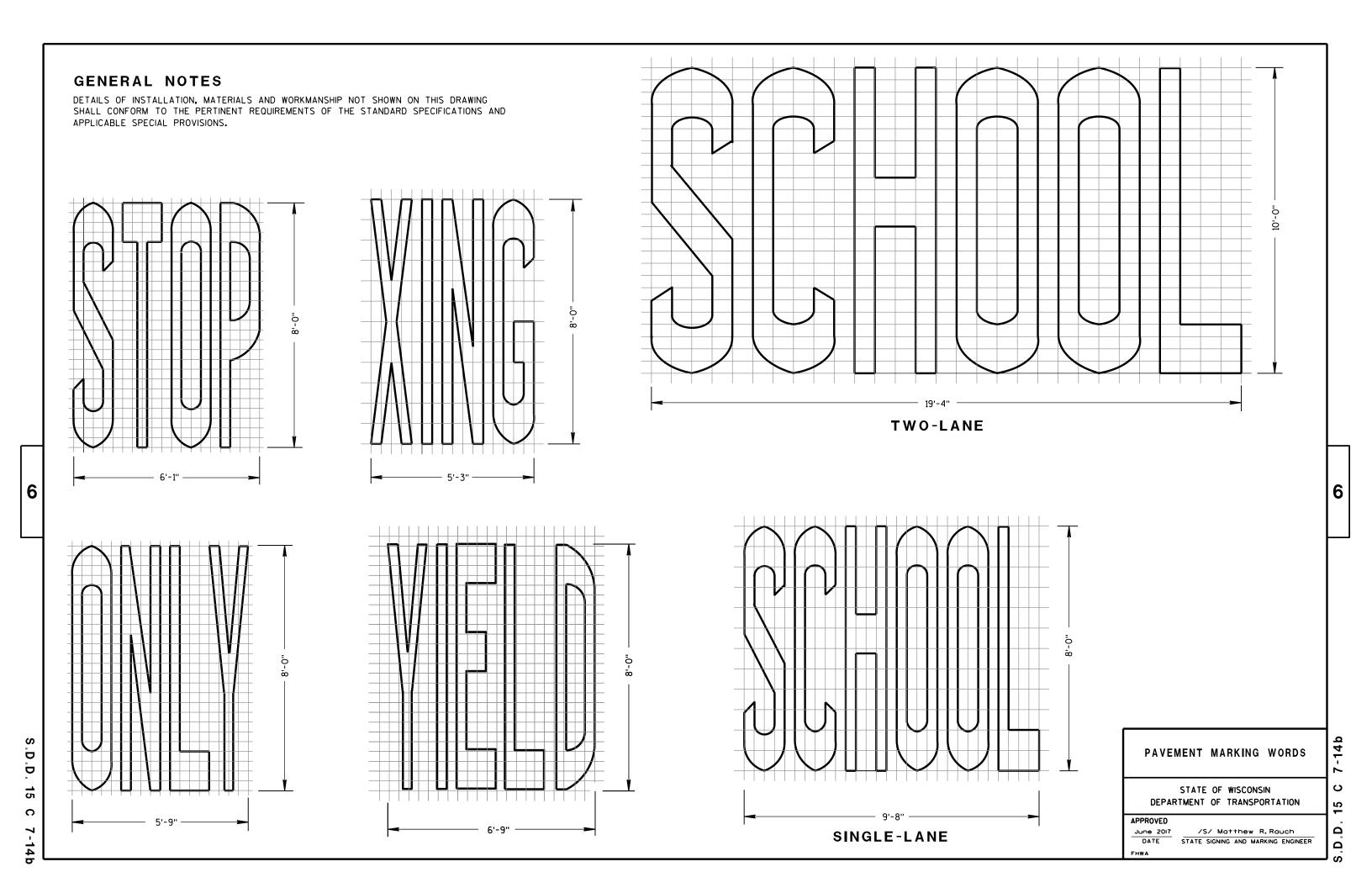
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

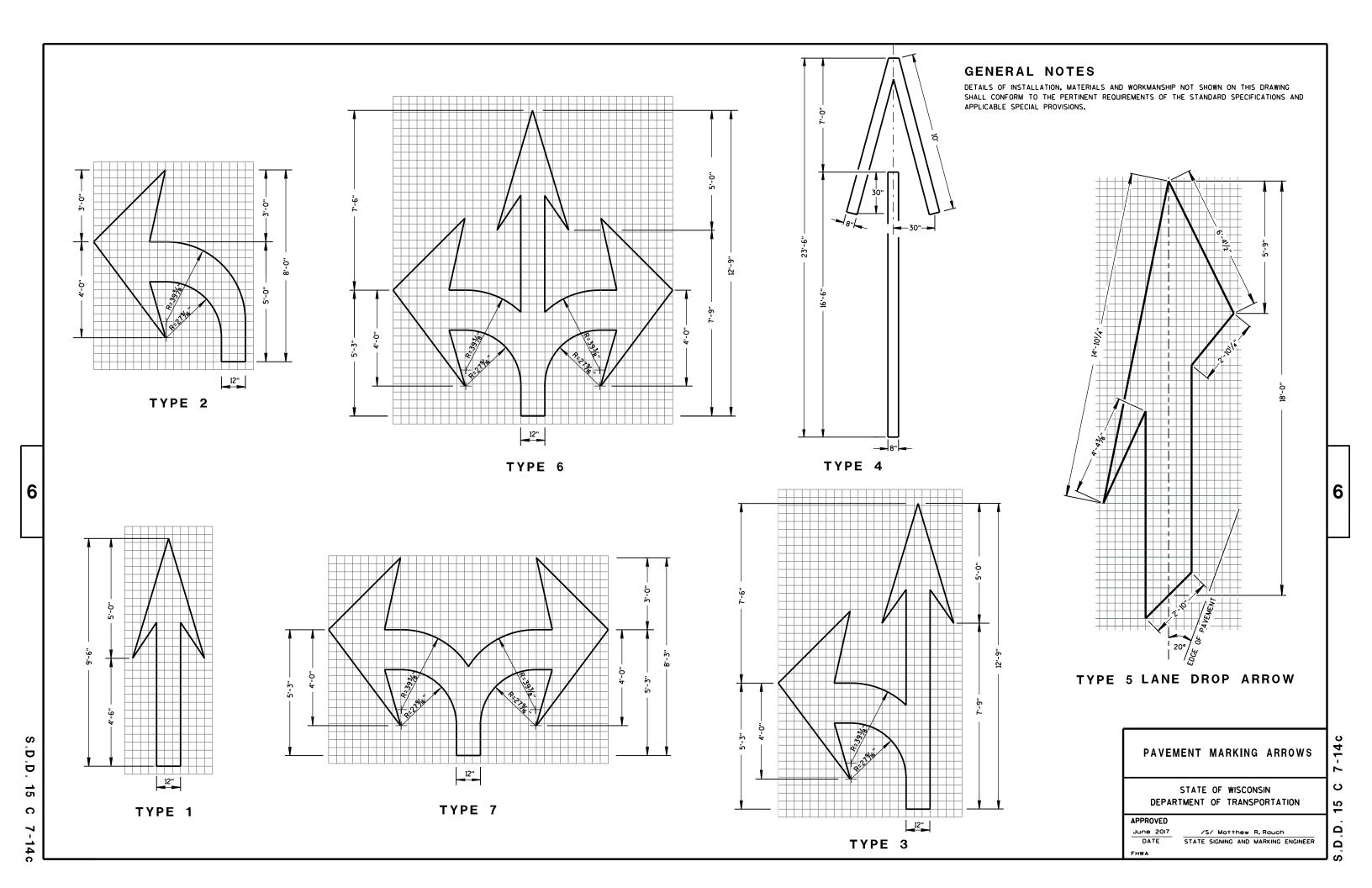
ROAD OPEN TO TRAFFIC

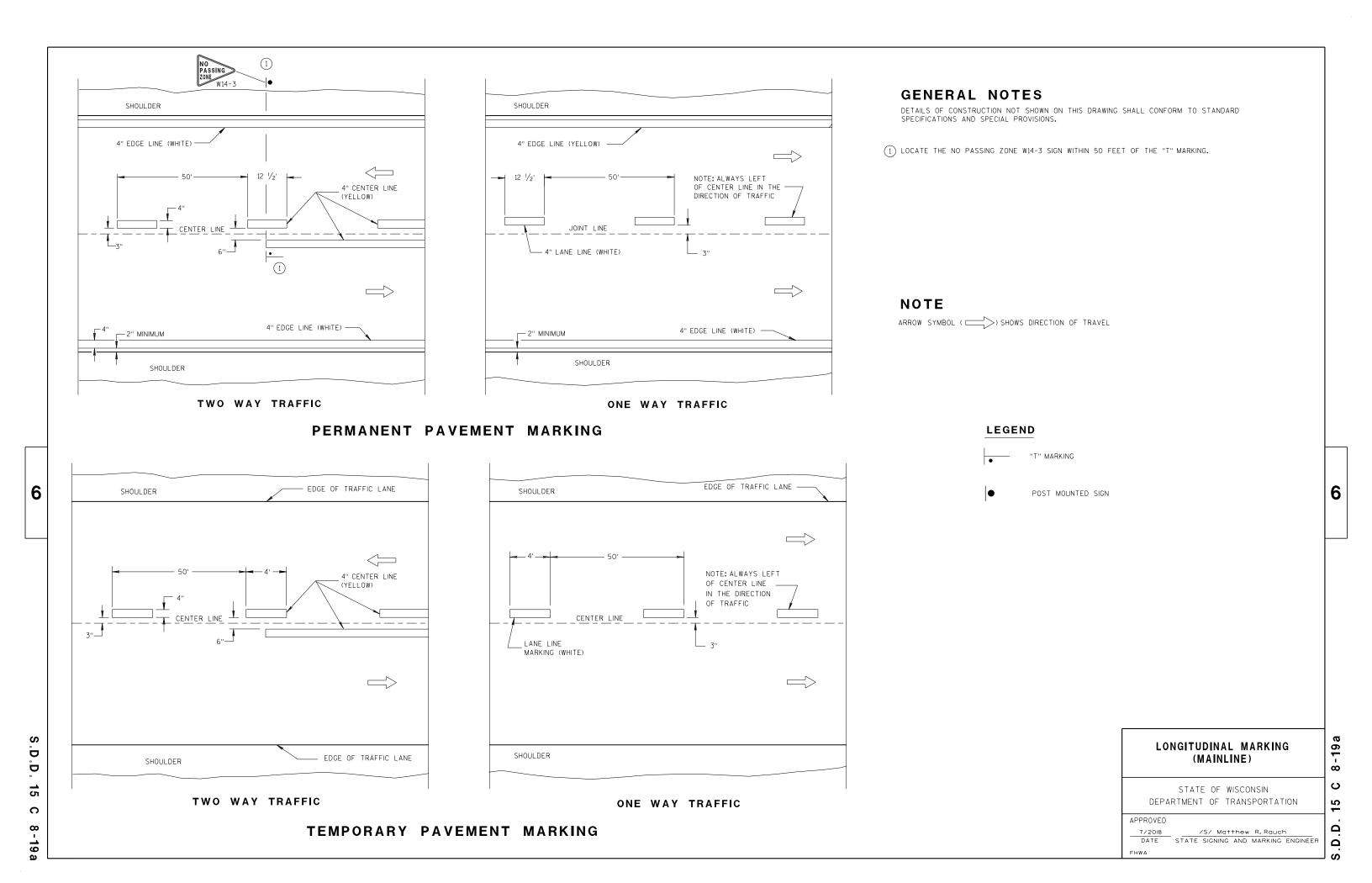
APPROVED

7/2018 /S/ Andrew Heidtke DATE WORK ZONE ENGINEER

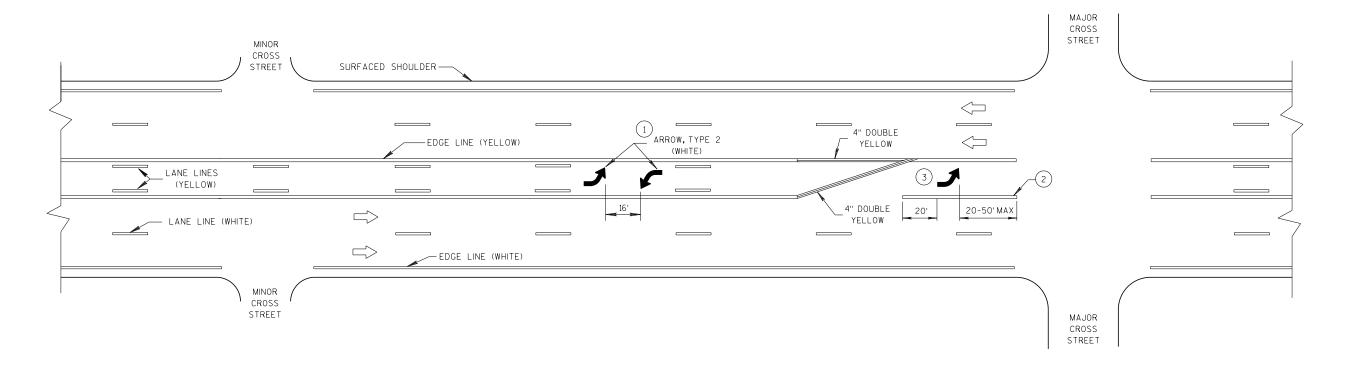
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- 1 A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
- 2 8" WHITE
- (3) TURN BAY LENGTH OF LESS THAN 48'DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT
- DIRECTION OF TRAFFIC



TWO WAY LEFT TURN LANE

PAVEMENT MARKING (TURN LANES) 6

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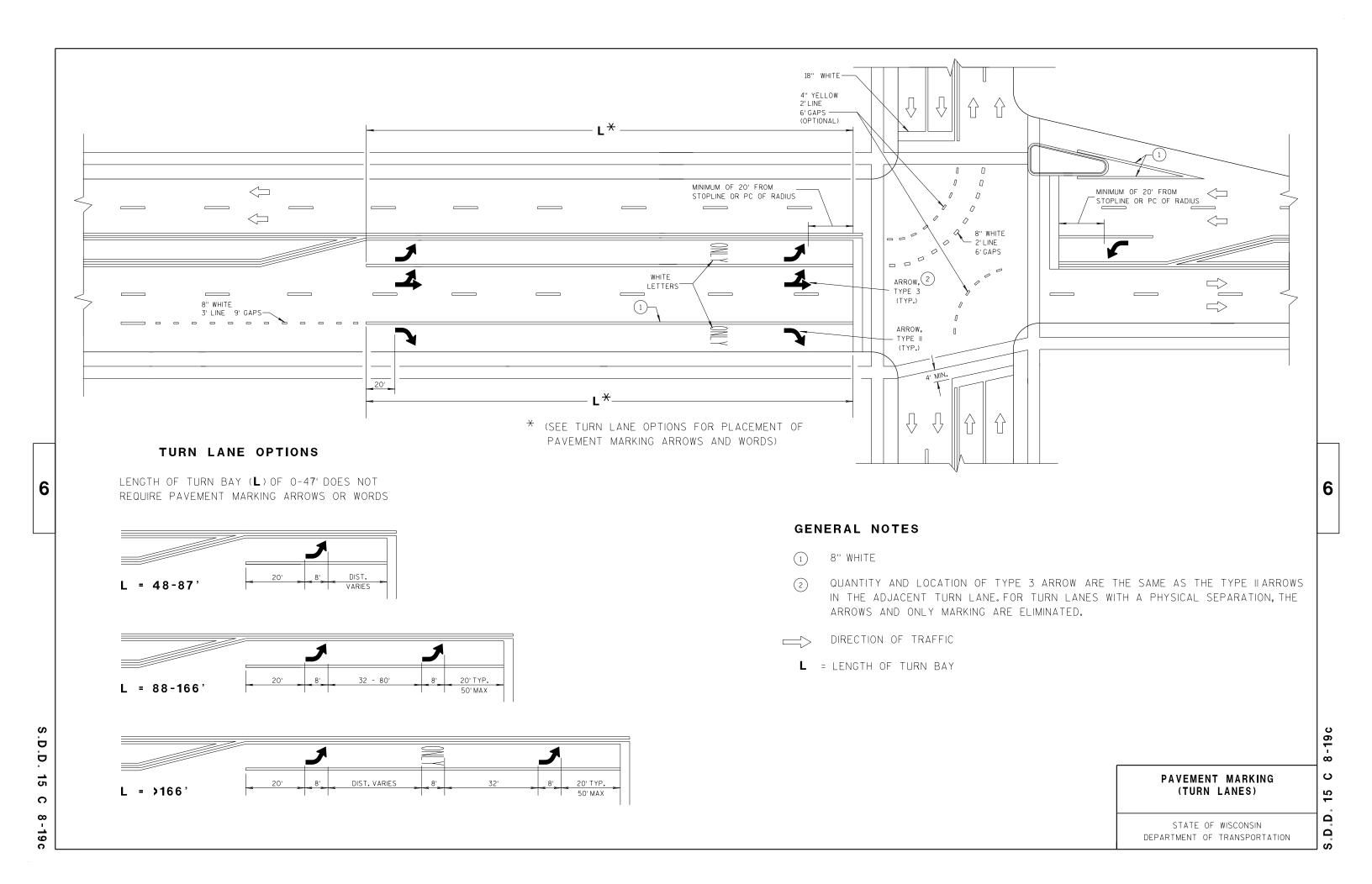
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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

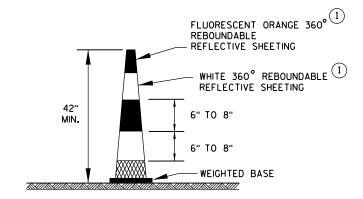
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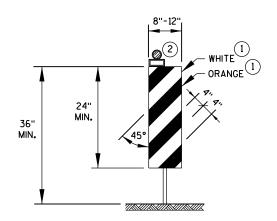
TYPE 2 BARRICADE

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



42" CONE

DO NOT USE IN TAPERS 1/2 SPACING OF DRUMS

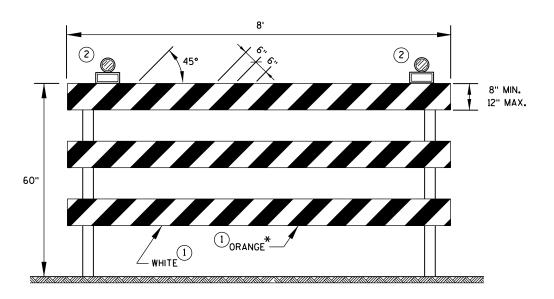


VERTICAL PANEL

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

GENERAL NOTES

- 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 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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APPROVED

June 2017
DATE

WORK ZONE ENGINEER
FHWA

S.D.D. 15 C 1

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STOP/SLOW PADDLE ON SUPPORT STAFF

5' MIN.

WORK

AHEAD

48" X 24"

END ROAD WORK G20-2A

(2)

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W20-1A

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.
- SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.
- 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	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	

D Ö 15 C 2 BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

SIGN SUPPORTS SHALL BE LOCATED NORMAL TO ROADWAY.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

WELDING OF ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BAR CAGE TO BE ASSEMBLED USING TIE WIRES ONLY, NO WELDING.

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACK FILLING AROUND THE BASE. ANY REQUIRED BACKFILL SHALL BE WELL COMPACTED IN LAYERS OF 1 FOOT OR LESS. COMPACTION SHALL BE BY MECHANICAL MEANS. CARE SHALL BE TAKEN SO NO DAMAGE OCCURS TO THE CONCRETE BASE DURING COMPACTION.

EXCAVATION OF MATERIALS NOT OCCUPIED BY CONCRETE SHALL BE MINIMIZED TO REDUCE DISTURBANCE OF THE SURROUNDING SOILS.

THE BOTTOM OF THE DRILLED HOLE SHALL BE FIRM AND THOROUGHLY CLEANED SO NO LOOSE OR COMPRESSIBLE MATERIALS ARE PRESENT AT THE TIME OF THE CONCRETE PLACEMENT.

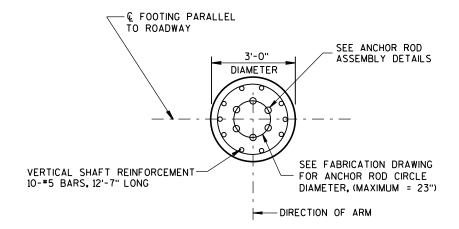
IF THE DRILLED HOLE CONTAINS STANDING WATER, THE CONCRETE SHALL BE PLACED USING A TREMIE TO DISPLACE THE WATER.

THE REINFORCEMENT AND ANCHOR RODS SHALL BE ADEQUATELY SUPPORTED IN THE PROPER POSITIONS SO NO MOVEMENT OCCURS DURING CONCRETE PLACEMENT.

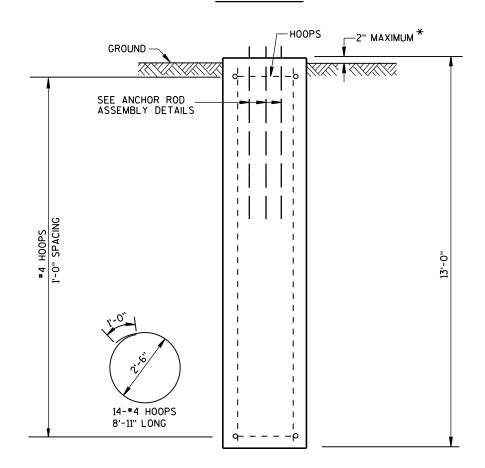
FORM ALL EXPOSED CONCRETE CORNERS WITH $\frac{7}{4}$ " CHAMFER ALL AROUND. TOP OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

ANY DAMAGE TO THE CONCRETE BASE AND ANCHOR RODS DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE ENGINEER'S DIRECTION, AT THE EXPENSE OF THE CONTRACTOR.

THIS FOOTING HAS BEEN DESIGNED FOR SITES WHERE SOILS EXHIBIT A PHI-ANGLE GREATER THAN OR EQUAL TO 20 DEGREES (GRANULAR SOILS), OR A COHESION VALUE GREATER THAN OR EQUAL TO 350 PSF (COHESIVE SOILS).



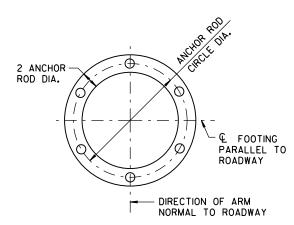
PLAN VIEW



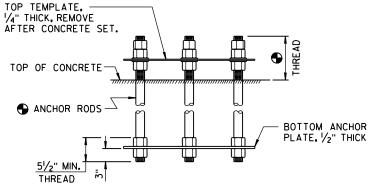
ELEVATION VIEW

* FOR OVERHEAD SIGN SUPPORTS THAT ARE INSTALLED ADJACENT TO SIDEWALKS, THE TOP OF THE BASE SHALL BE POURED FLUSH WITH THE GROUND.

CONCRETE - 3.4 C.Y. PER FOOTING H.S. REINFORCEMENT - 215 LBS. PER FOOTING



TOP TEMPLATE AND BOTTOM ANCHOR PLATE



ANCHOR ROD ASSEMBLY DETAILS

MINIMUM OF 6 ANCHOR RODS, EXACT NUMBER, SIZE, DIMENSION AND ORIENTATION AS SHOWN ON FABRICATION DRAWING.

> 36" DIAMETER FULL SPAN OVERHEAD SIGN SUPPORT BASE

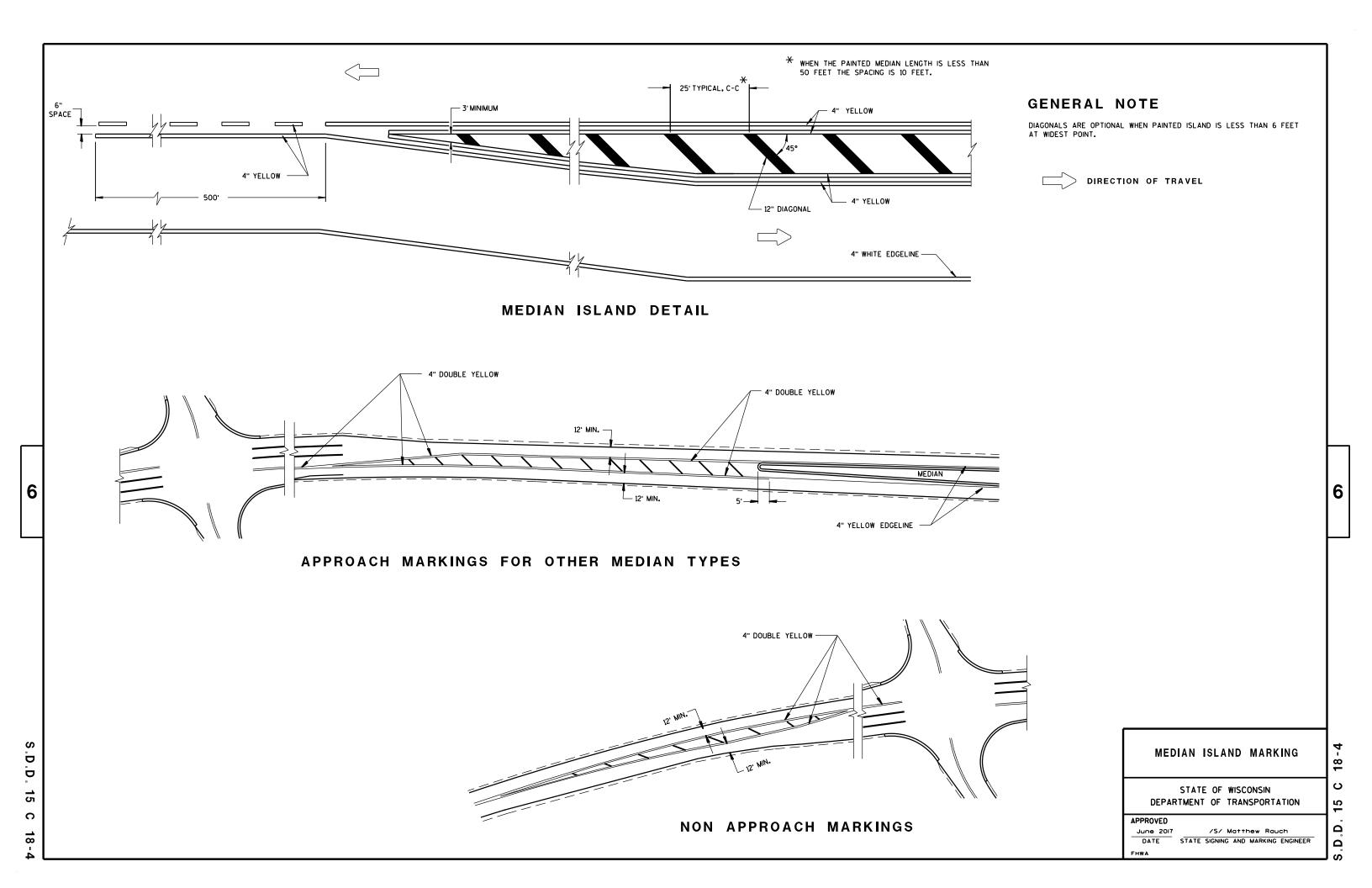
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

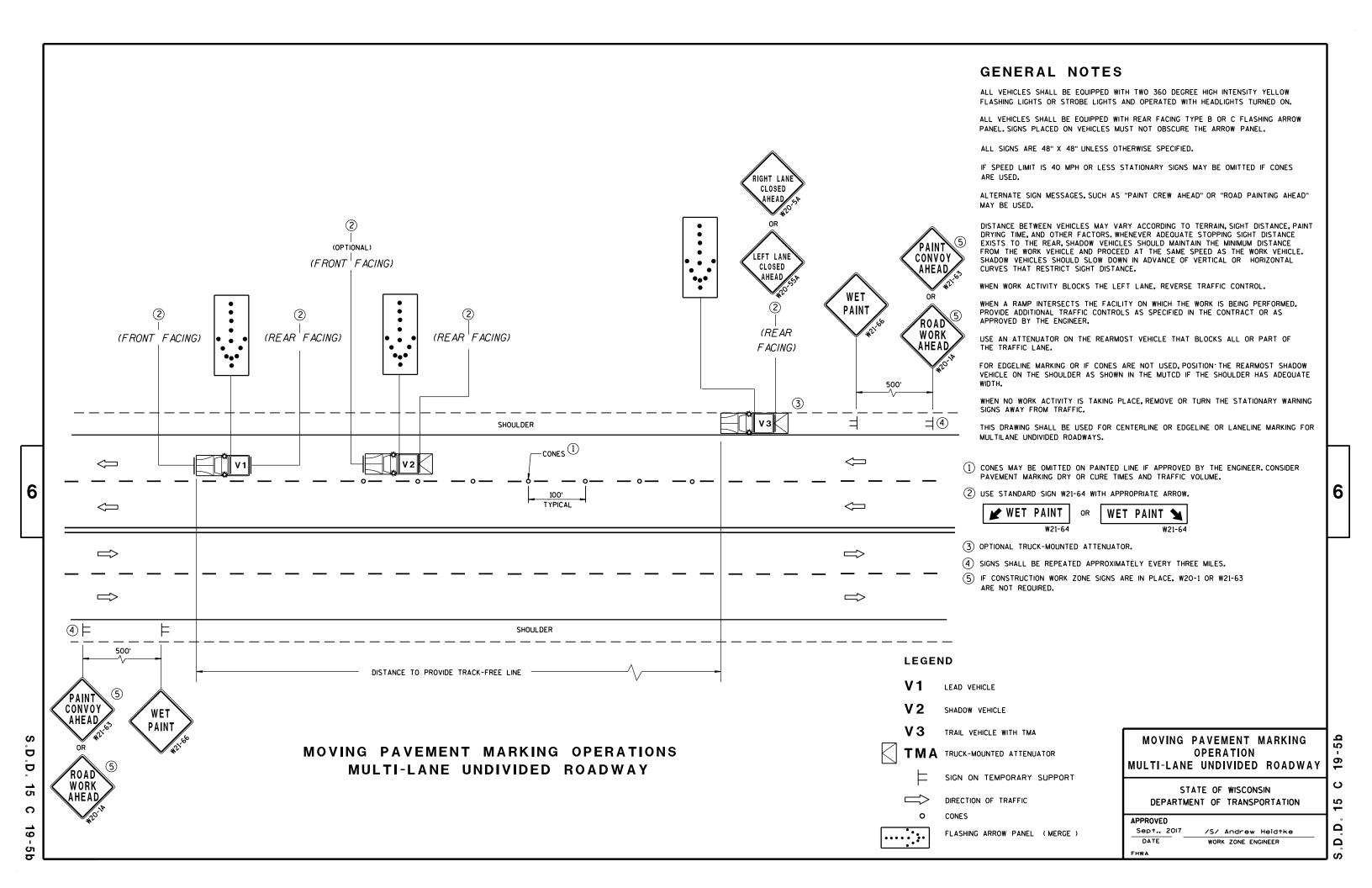
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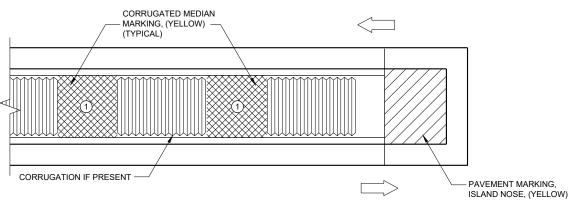
.D.D. 15 C 15-5

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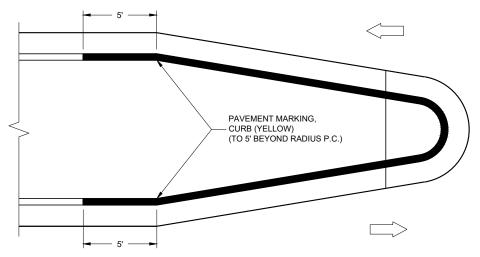
D.D. 15



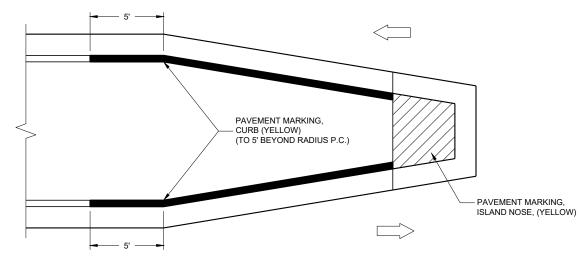




MEDIAN ISLAND WITH SQUARE BLUNT NOSE



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.

CURB MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL

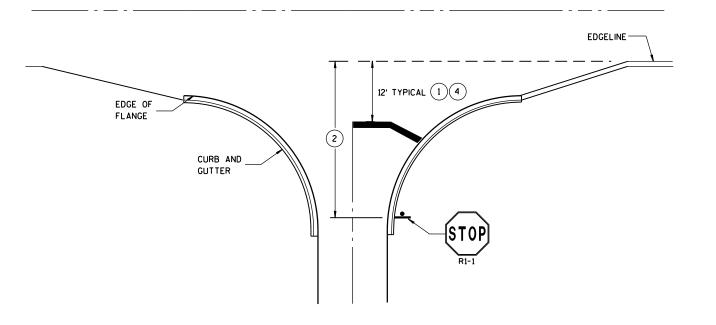
PAVEMENT MARKINGS (ISLANDS)

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SDD 15C27

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

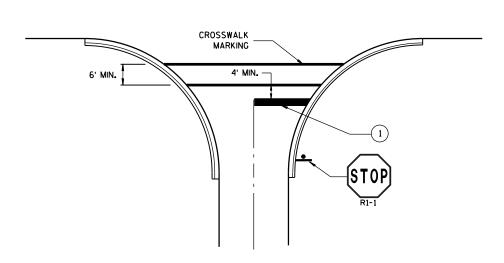
APPROVED	
7/2018	/S/ Matthew R. Rauch
DATE	STATE SIGNING AND MARKING ENGINEER
TIMA	



8" CHANNELIZATION WHITE FLANGELINE (EXTENSION) WHITE EDGELINE 4' TYPICAL (4)

TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



- EDGELINE 12' TYPICAL (1)

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

APPRO	VED.							
Sept	. 2017		/5/	Mat	thew	R. R	auch	
DAT	E 9	STATE	SIGNIN	NG AI	ND MA	RKING	ENGINE	ER
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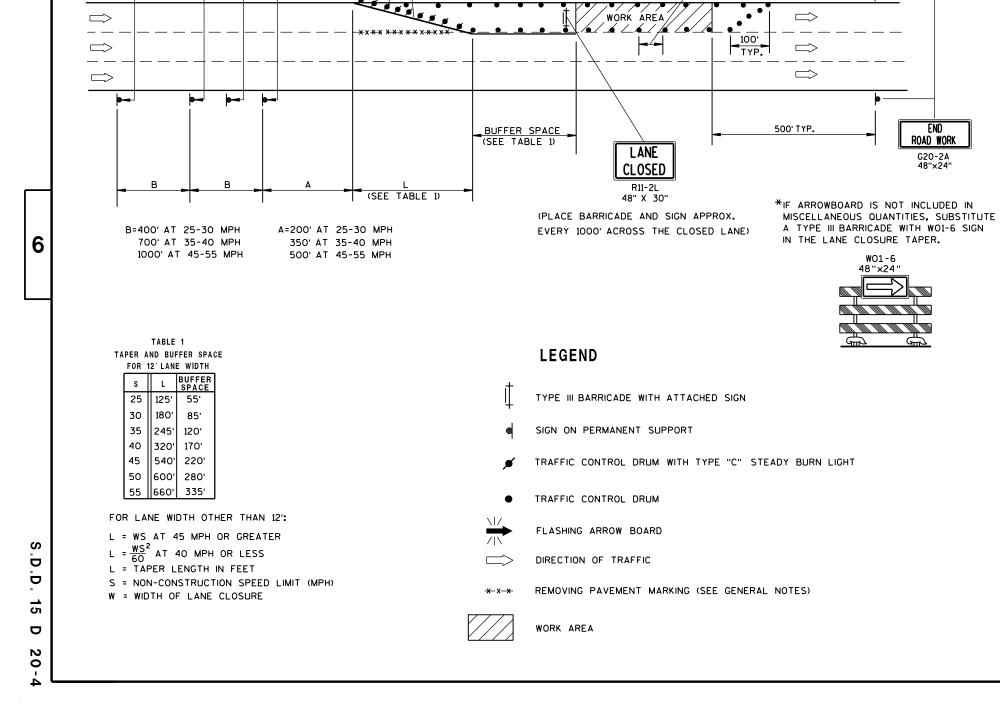
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(5) DRUMS SPACED @ 10'

INTERVALS AS NEEDED IN

FRONT OF ARROW BOARD

TEMPORARY PAVEMENT MARKING.

4-INCH REMOVABLE TAPE (WHITE ON RIGHT,

25'@ 35 MPH OR LESS 50'@ 40 MPH OR MORE

YELLOW ON LEFT)

SPACING:

ROAD WORK

NEXT___MILES

G20-1

60" X 24"

CLOSED

AHEAD

AHEAD

GENERAL NOTES

**THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE

ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL

W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF

50' MAX. @ 35 MPH OR LESS

100' MAX. @ 40 MPH OR MORE

IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC

TRAFFIC. IN ADVANCE OF THE WORK AREA.

SPACING:

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"×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, 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.

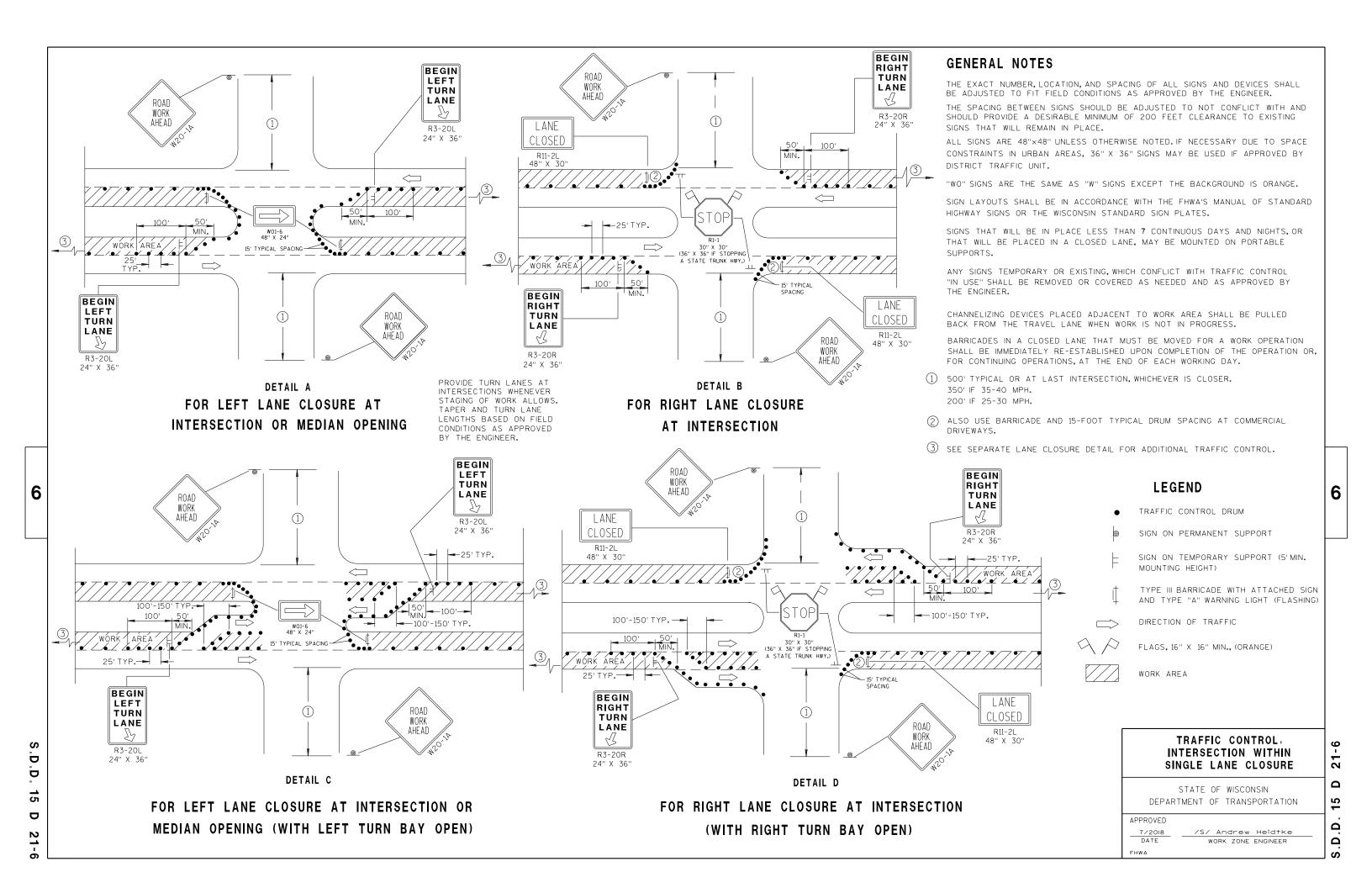
TRAFFIC CONTROL SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

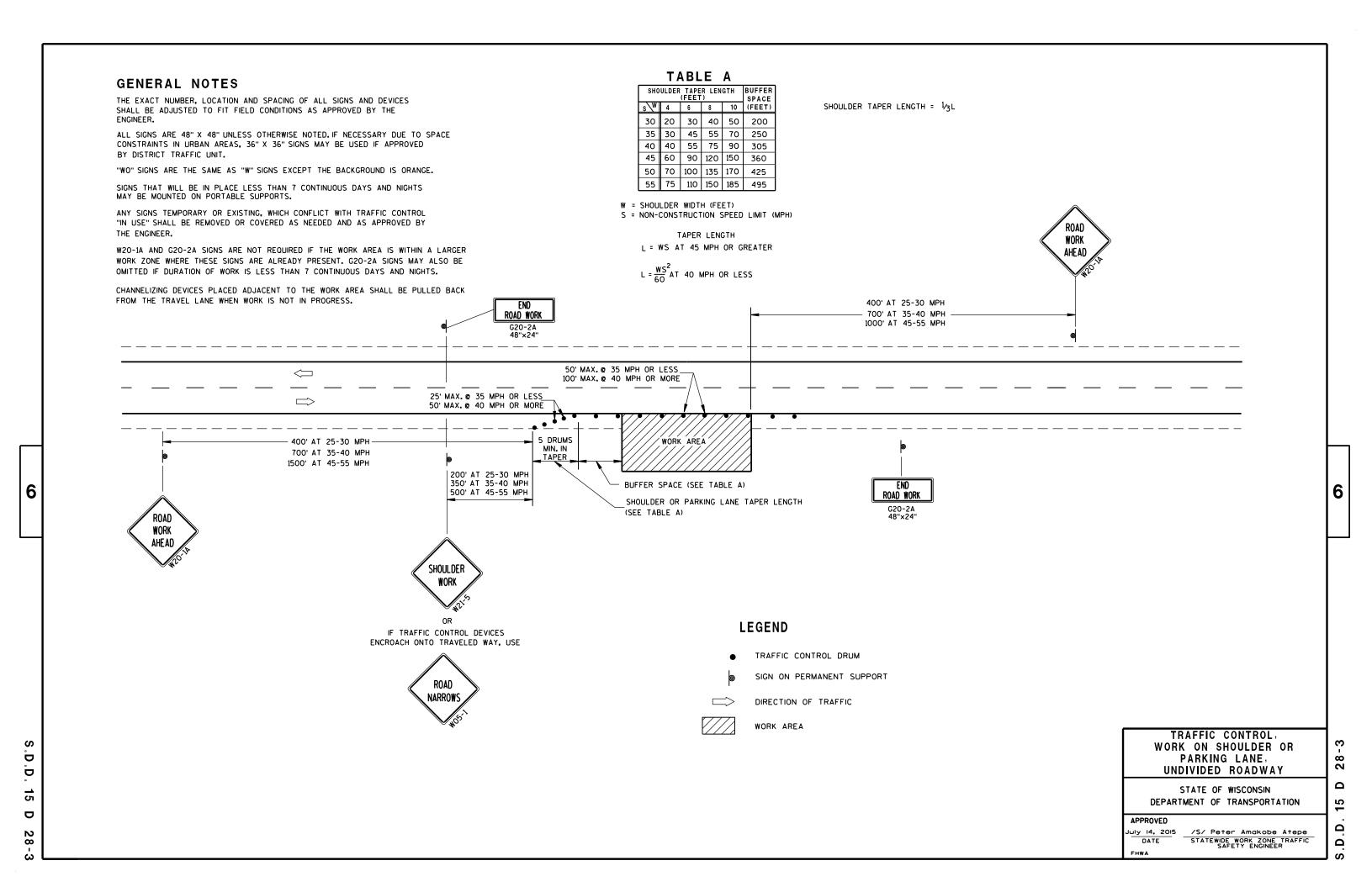
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED June 2016

/S/ Peter Amakobe Atepe STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

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CLOSED

R9-9 24"×12'

TEMPORARY PEDESTRIAN

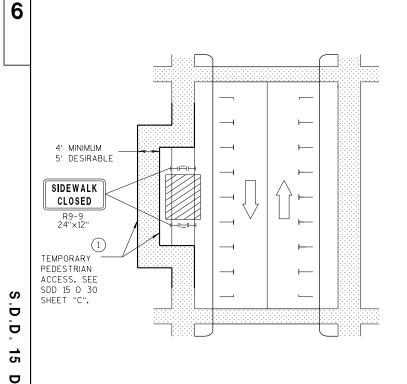
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SDD 15 D 30 SHEET "C".

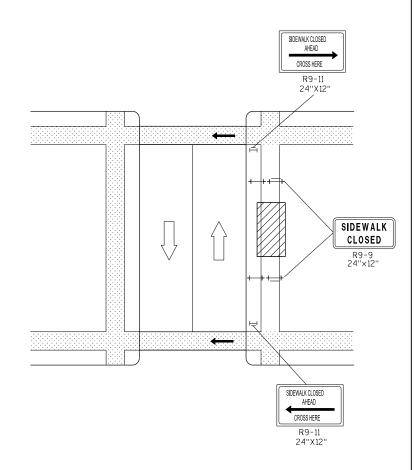
MID-BLOCK SIDEWALK CLOSURE IN PARKING LANE

NOTE: LAYOUT SAME AS ABOVE.

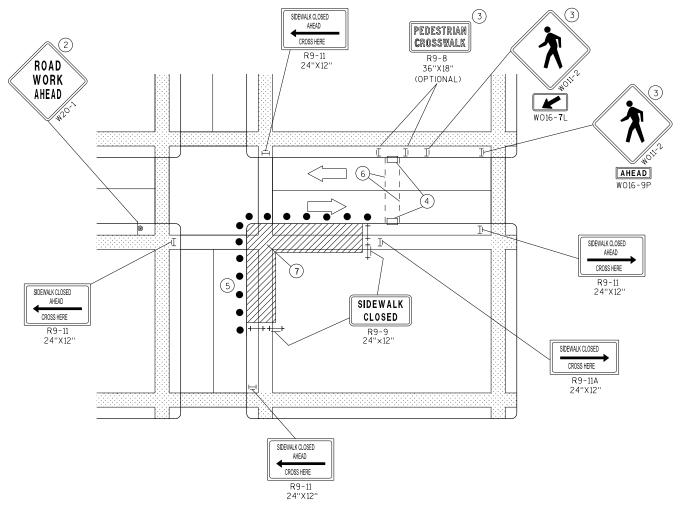
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SIDEWALK DIVERSION



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

SLIPPORT UNDER PEDESTRIAN

TRAFFIC

TRAFFIC

TRAFFIC CONTOL DRUM

DIRECTION OF

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)

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 4 0 က Ω Δ

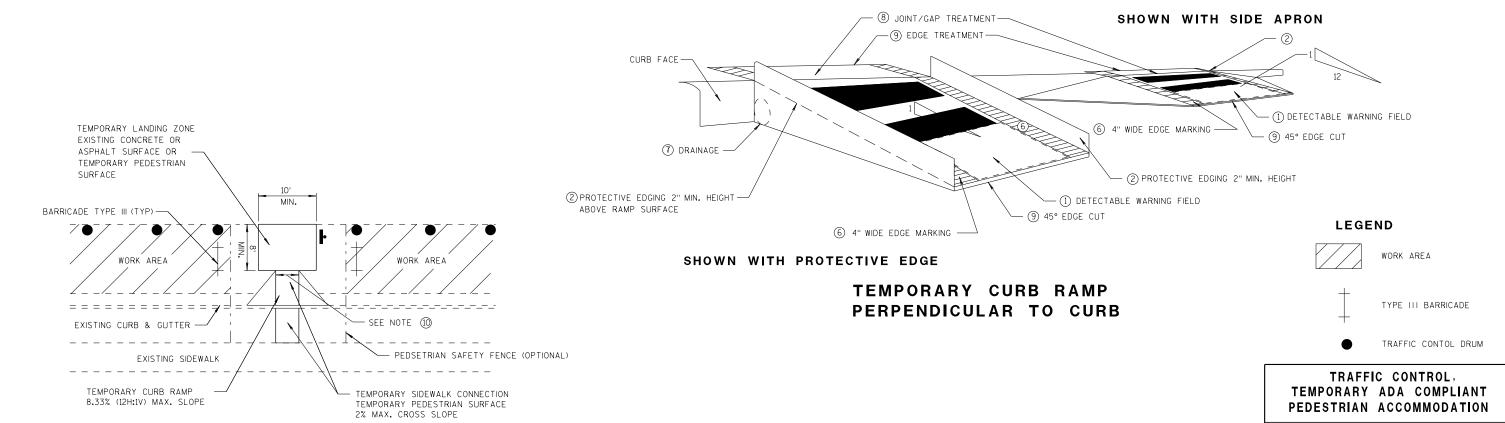
PARALLEL TO CURB

TEMPORARY BUS STOP PAD

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".
- 5' WIDE MIN. WITH PEDSETRIAN SAFETY FENCE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY FENCE.

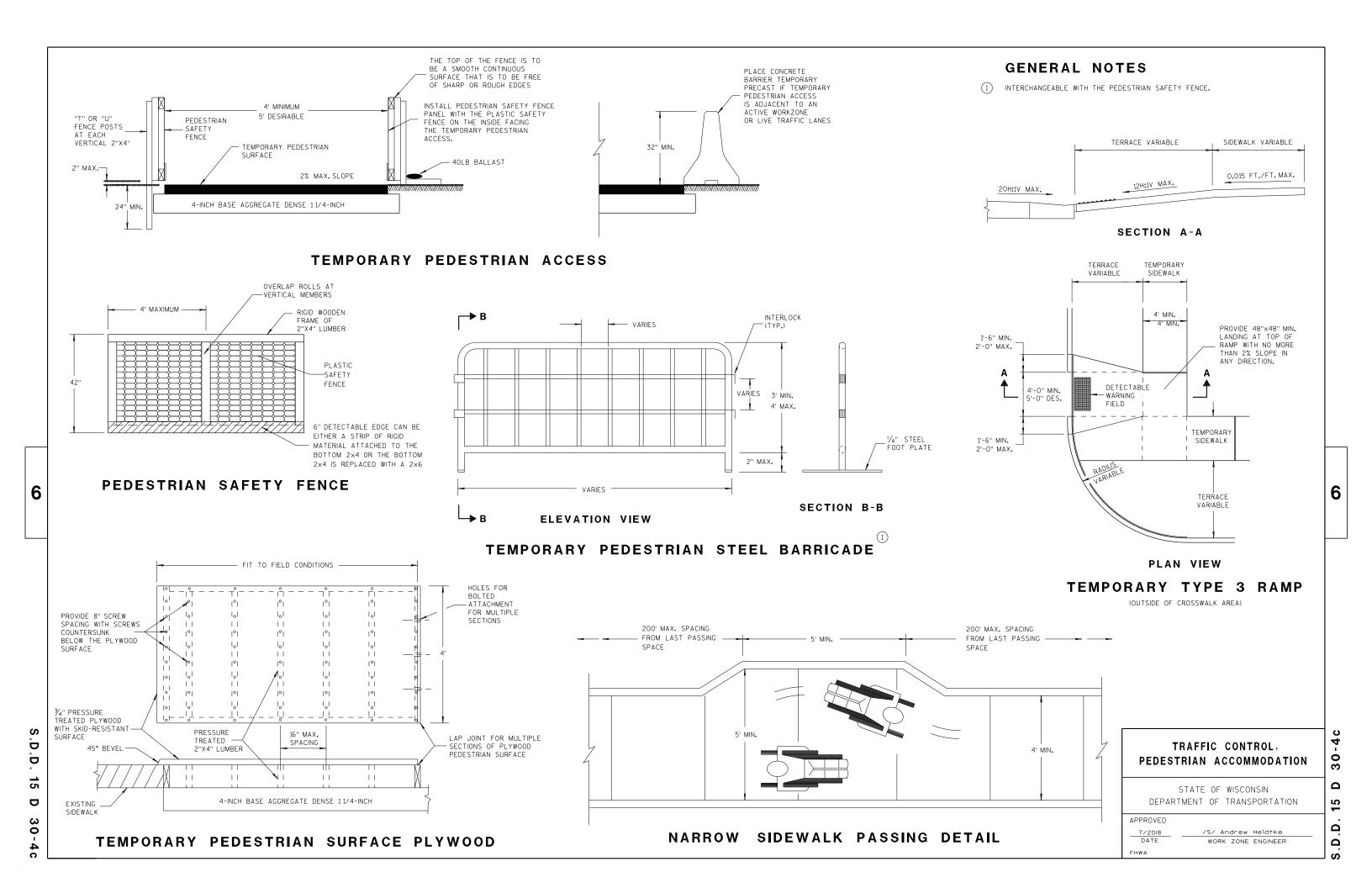


STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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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

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- 11/2" DIAMETER HOLES

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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 - 1/6" 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 - $\frac{9}{32}$ " (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 SO. FT. REQUIRE THE USE OF 3 FASTENERS.

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2017
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER
FHWA

drew Heidtke
ZONE ENGINEER

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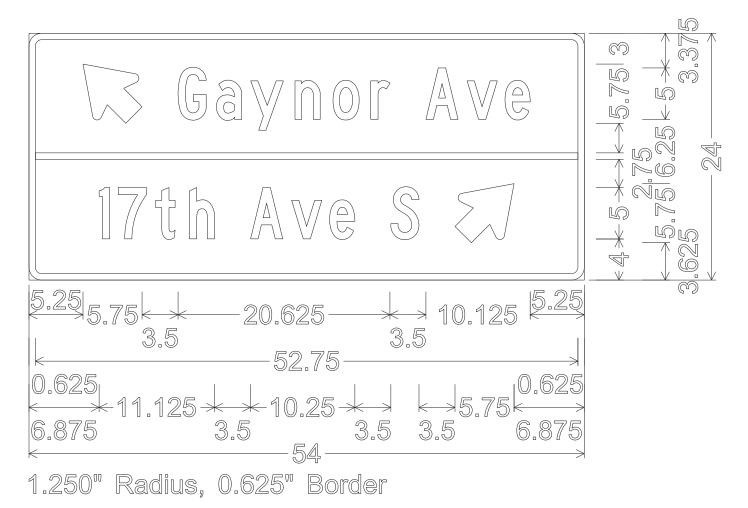
NOTES

- 1. All Signs Type II Type H Reflective
- 2. Color:

Background - GREEN Message - WHITE

3. Message Series - C





COUNTY: WOOD PROJECT NO: 6999-03-70 HWY: STH 54 PERMANENT SIGNING

FILE NAME: P:\48xx\4898.DP.15.STH54.WOOD\CADDS\69990370\SheetsPlan\4711a116.dgn

PLOT DATE: 3/13/2017

PLOT BY : smk

PLOT NAME :

PLOT SCALE: 1:9.33167

WISDOT/CADDS SHEET 42

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SHEET NO:

1. All Signs are Type I - Type SH Reflective

2. Color:

Background - Green Message - White

3. Message Series - E



PROJECT NO: 6999-03-70 HWY: STH 54

COUNTY: WOOD

PERMANENT SIGNING

SHEET NO:

PLOT SCALE: 1:19.9875

WISDOT/CADDS SHEET 42

Ε

FILE NAME: P:\48xx\4898.DP.15.STH54.WOOD\CADDS\69990370\SheetsPlan\070101-sd.dgn

PLOT DATE: 11/3/2015

PLOT BY : smk

PLOT NAME: PLOT SCAL

- 1. Fixed Message Type II Signs Type H Reflective
- 2. Color:

Background - White Message - Black

3. Message Series - As noted

N ______ \mathbb{N}

1.125" Radius, 0.375" Border, 0.375" Indent, "SIDEWALK" C; "CLOSED" C; "1100FT" B; "AHEAD" B

PROJECT NO: 6999-03-70

HWY: STH 54

COUNTY: WOOD

TEMPORARY SIGNING

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_d4\4711A116.DGN

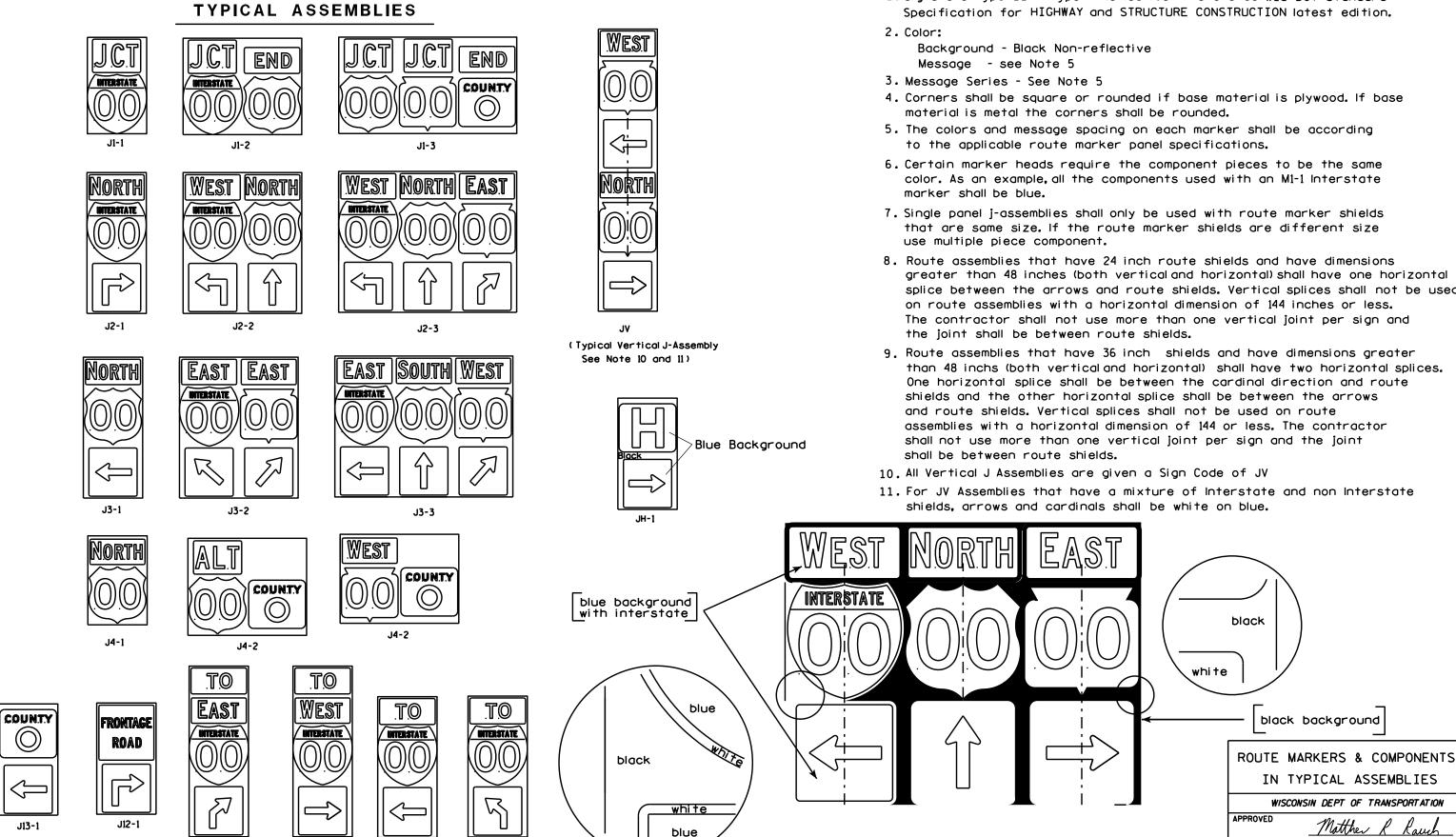
PLOT DATE: 16-FEB-2017 14:35

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

PLOT SCALE: 4.705146:1.000000

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard

areater 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.



PROJECT NO:

J32-1

J22-1

J23-1

J33-1

PLOT BY: mscsja

PLATE NO. __A2-15.8

DATE 2/06/14

SHEET NO:

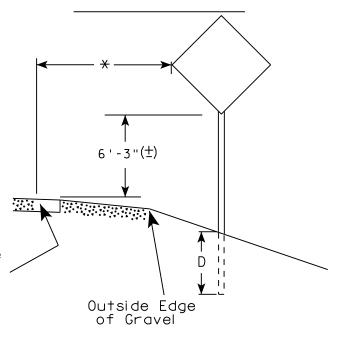
urban area

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

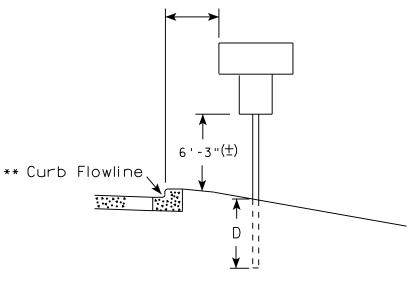
** Curb Flowline

D | White Edgeline Location

RURAL AREA (See Note 2)



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



White Edgeline
Location

Outside Edge
of Gravel

** 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.

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" (±).

POST EMBEDMENT DEPTH

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

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

SHEET NO:

PROJECT NO: HWY: COUNTY:



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:

| | |



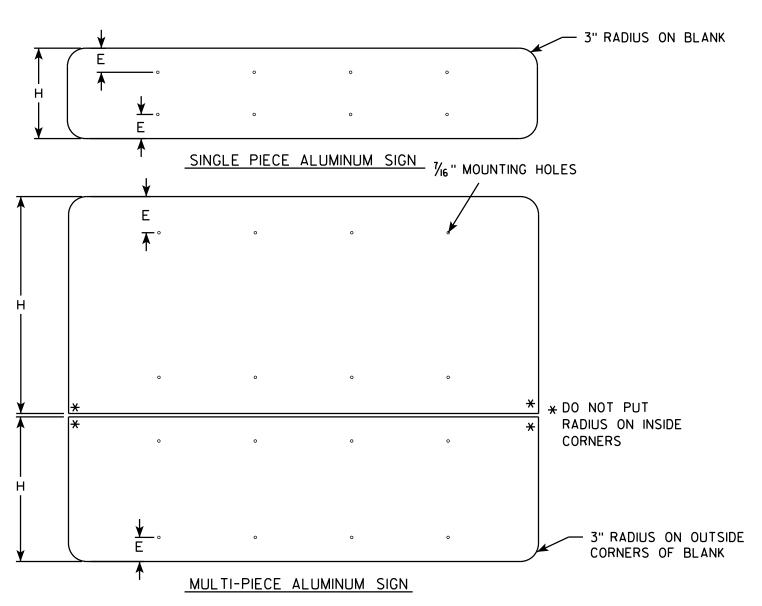
PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

DATE 2/05/15

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

For State Traffic Engineer

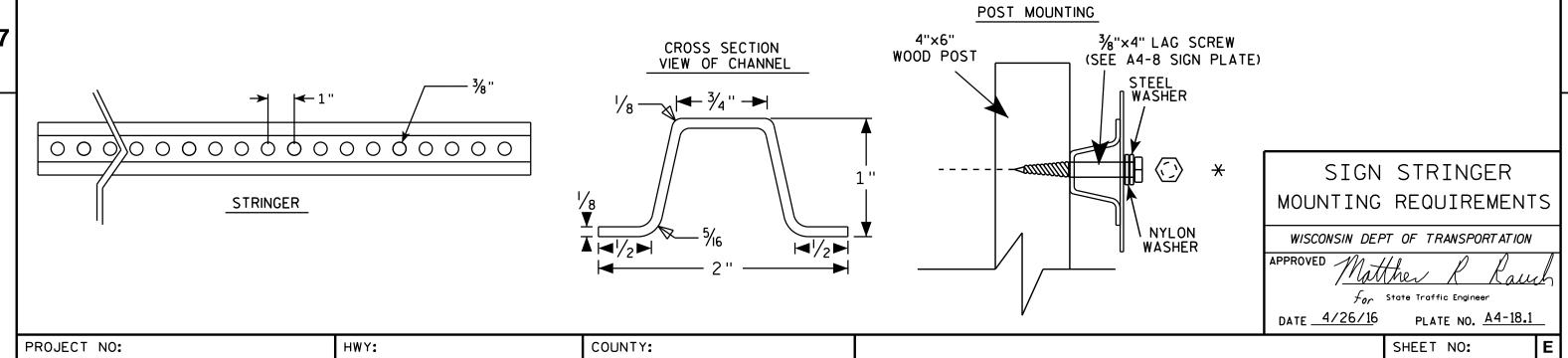




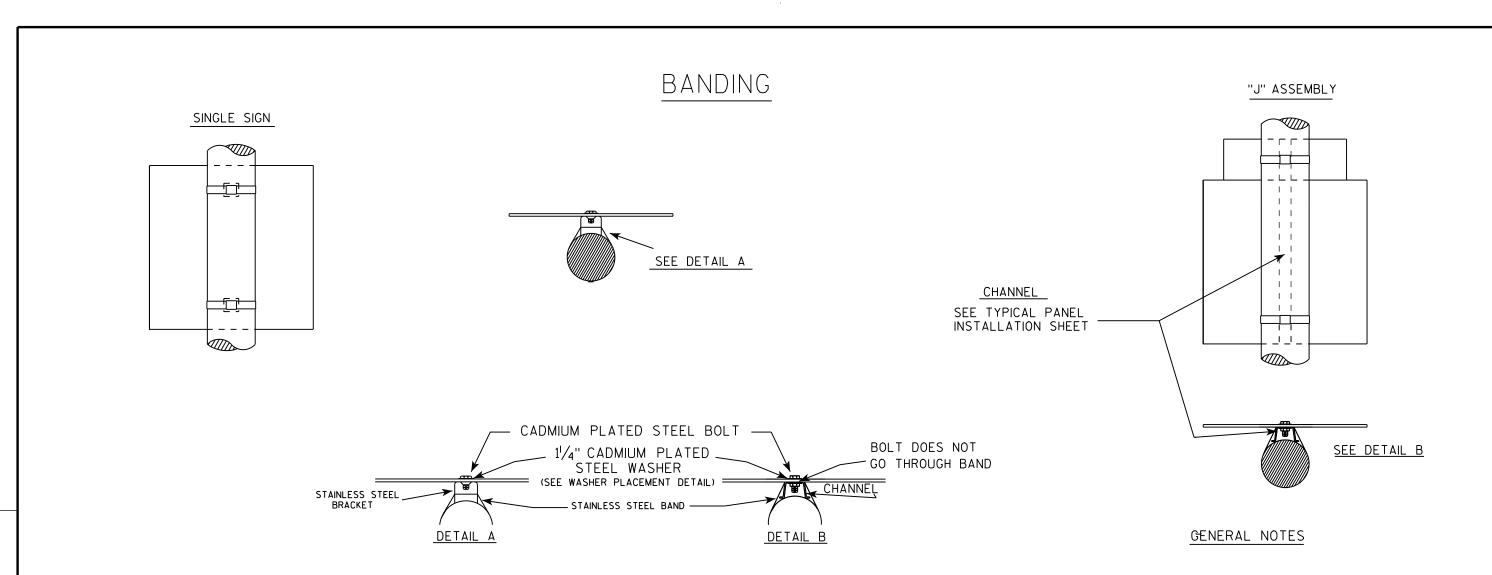
GENERAL NOTES

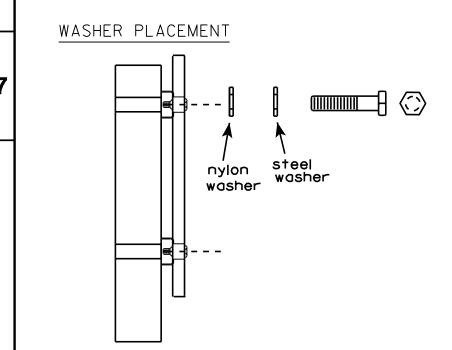
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE $\frac{7}{16}$ " DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING				NTING OLES			
7 8''	7 2"	2	16''	15''	31''	47''	63''			
84''	72"	2	17''	161/2"	331/2"	501/2"	6 7 1/2	1		
90"	72"	2	18''	18''	36''	54''	72"			
96"	90''	2	19''	191/2"	381/2''	57½"	761/2			
102"	90''	2	20"	21''	41''	61''	81''			
108''	90"	2	21''	221/21	' 43 ^l / ₂ ''	641/2"	851/2			
114''	108''	3	15''	12''	2 7 ''	42''	57''	72"	87''	102''
120''	108''	3	16''	12''	28''	44''	60"	76"	92"	108''
126"	108''	3	17''	12''	29"	46''	63''	80"	97''	114''
132"	126''	3	18''	12''	30"	48''	66''	84"	102"	120''
138''	126''	3	19"	12''	31''	50"	69"	88"	107''	126"
144''	126"	3	20"	12''	32"	52"	72"	92"	112''	132"



PLOT BY: mscj9h





HWY:

WASHERS (ALL POSTS) -

COUNTY:

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

PLOT BY: mscsja

- 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.

STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED 400 1100 400 400

For State Traffic Engineer

DATE 8/16/13

713 PLATE NO. A5-9.3

SHEET NO:

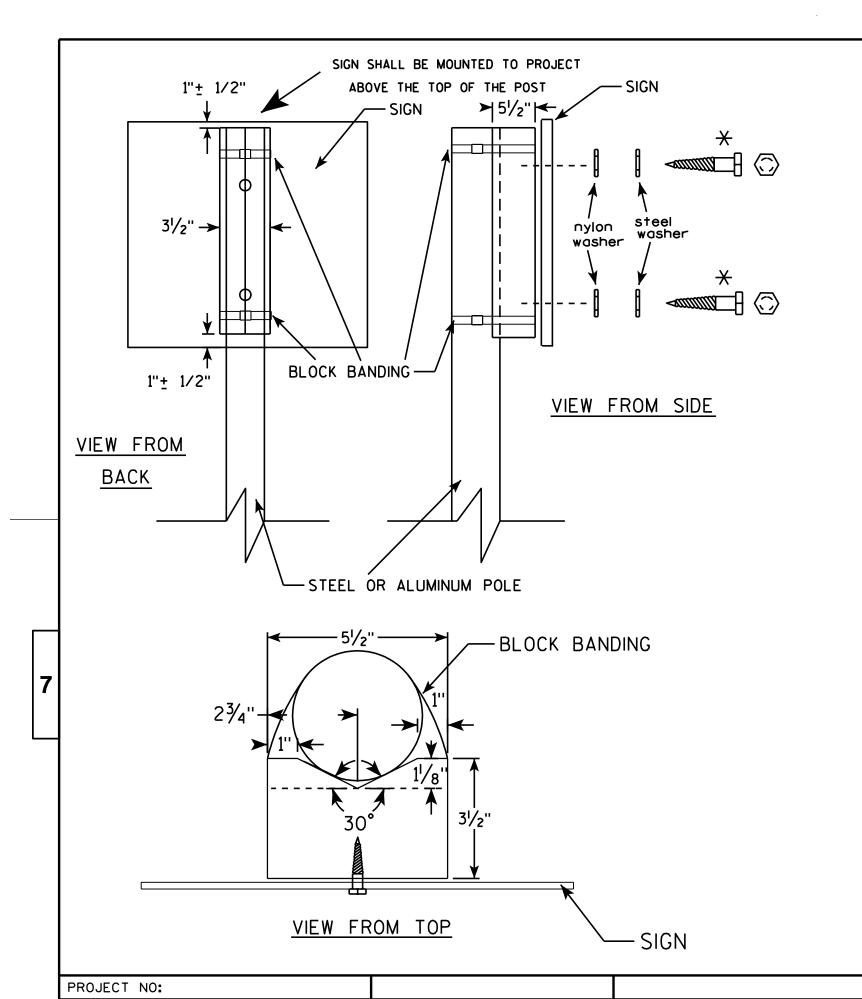
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A59.DGN

PROJECT NO:

PLOT DATE: 16-AUG-2013 13:27

PLOT NAME :

PLOT SCALE: 33.740899:1.000000



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, 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, 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 11/4" O.D. X 3/8" I.D. X 1/16"
- 8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $3/_{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

X LAG BOLTS SHALL BE 3/8" X 21/2"

BLOCK BANDING DETAIL
(V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

APPROVED

For State Traffic Engineer

DATE 7/12/07

PLATE NO. A5-10.1

SHEET NO:

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	T	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 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 %	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 400 110 00 00 110

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

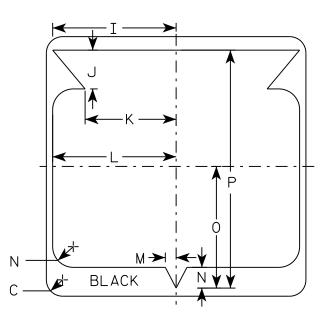
5.561773:1.000000 WISDOT/CADDS SHEET 42

- 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.

	G F A H H
A A	
M1-6	1



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	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 1/8	11 1/2	1	1 1/8	11 1/4	21 1/8											4.0
3	36		2 1/4			18	8 3/4	9 1/4	15	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0
4	36		2 1/4			18	8 3/4	9 1/4	15	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0
5	36		2 1/4			18	8 3/4	9 1/4	15 ¾	5	12 5/8	17 1/8	1 1/2	2 1/8	16 1/8	33											9.0

COUNTY:

STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

for State Traffic Engineer

DATE 3/16/18

PLATE NO. <u>M1-6.10</u>

SHEET NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M16.DGN

HWY:

PROJECT NO:

PLOT DATE: 16-MAR-2018 14:11

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

PLOT SCALE : 6.655277:1.000000

WISDOT/CADDS SHEET 42







MP3-1









HWY:



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	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	V	W	Х	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 1/8	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

COUNTY:

STANDARD SIGNS M3-1 thur M3-4 **SERIES**

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

DATE 10/15/15 PLATE NO. M3-1.14

Ε

SHEET NO:

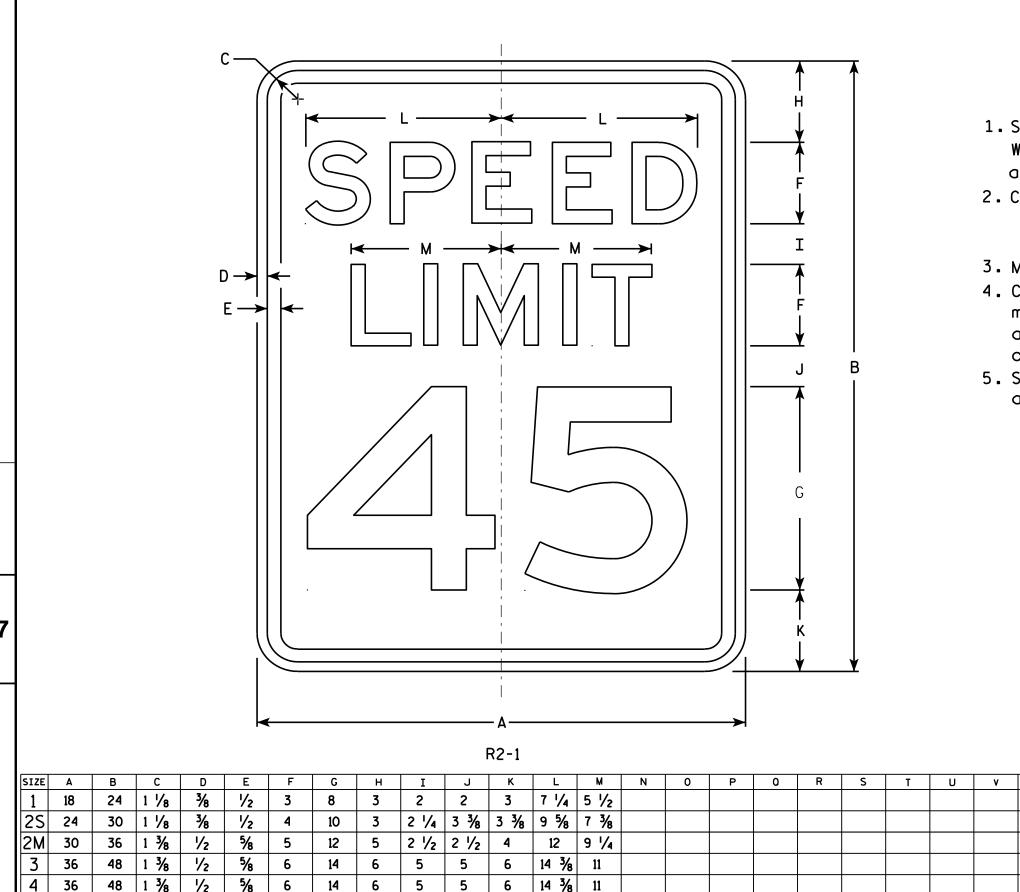
FILE NAME · C·\CAFfiles\Projects\tr stdolote\M31 DCN

PROJECT NO:

PLOT DATE . 01-DEC-2015 17:54

PLOT RY . \$\$ plotuser \$\$ PLOT NAME :

PLOT SCALE . 11 675051.1 000000



4 1/2 6 3/4 6 3/4 19 1/4 14 5/8

COUNTY:

20

HWY:

6

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.

3.0

5.0

7.5

12.0

12.0

20.0

STANDARD SIGN R2-1

WISCONSIN DEPT OF TRANSPORTATION APPROVED

Matther R Raus For State Traffic Engineer PLATE NO. R2-1.13

DATE <u>5/26/1</u>0

SHEET NO:

2 1/4

60

5

48

PROJECT NO:

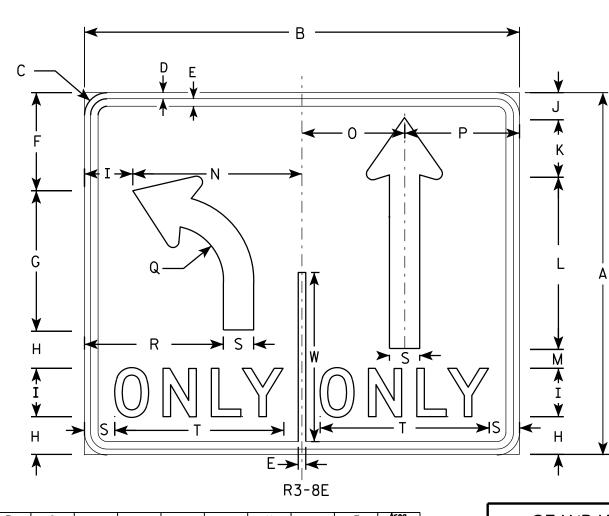
PLOT NAME :



- 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.



K K W N N N N N N N N N N N N N N N N N	F G A H I Y H
R3-8D D S L	↑ U ¥

HWY:

l																											
SIZE	Α	В	C	D	E	F	G	Н	I	J	K	L	M	N	0	P	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
2S 2M	30	36	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 %	14	8 1/2	9 1/2	4 1/2	11 1/2	2 1/2	14	2 %	3/8	14				7.5
2M	30	36	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	14	8 1/2	9 1/2	4 1/2	11 1/2	2 1/2	14	2 %	3/8	14				7.5
3																											
4	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	3 1/2	7 1/8	21 1/2	4 3/4	21	12 3/4	14 1/4	7 1/4	17 1/8	3 3/4	20 %	4	5/8	22 3/8				18.0
5	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	3 1/2	7 1/8	21 1/2	4 3/4	21	12 3/4	14 1/4	7 1/4	17 1/8	3 3/4	20 %	4	5/8	22 3/8				18.0

COUNTY:

ARROW DETAIL

STANDARD SIGN R3-8D & R3-8E

For State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-8D.2

SHEET NO:

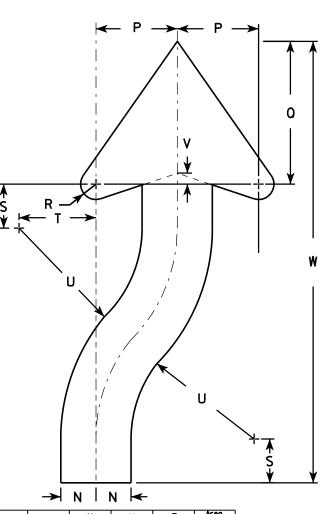
PROJECT NO:

PLOT BY: mscsja

- 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

																							→	N I	N 		
SIZE	Α	В	С	D	Ε	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	Т	U	٧	W	X	Y	Z	Arec sq. f
1	18	24	1 1/8	3∕8	1/2	3 %	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%	1 %	3 1/4	6 3/4	1/2	20 3/8				3.0
25	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 %	3	8	4	12 1/2	2	30	4 %	8 1/8	1 / ₈	2 1/2	4 3/8	9	5/8	25 1/8				5.0
2N	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 1/8	3	8	4	12 1/2	2	30	4 %	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 1/8	4 1/2	12	6	18 3/4	3	45	6 %	12 1/4	1 1/4	3 3/4	6 %	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 1/8	4 1/2	12	6	18 3/4	3	45	6 %	12 1/4	1 1/4	3 3/4	6 %	13 1/2	1	40 3/4				12.
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 ¾	18	1 1/4	50 1/4				20.

COUNTY:

R4-7

STANDARD SIGN R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

State Traffic Engineer
3/25/2011 PLATE NO. R4-

DATE 3/25/2011 PLATE NO. R4-7.8

SHEET NO:

PROJECT NO:

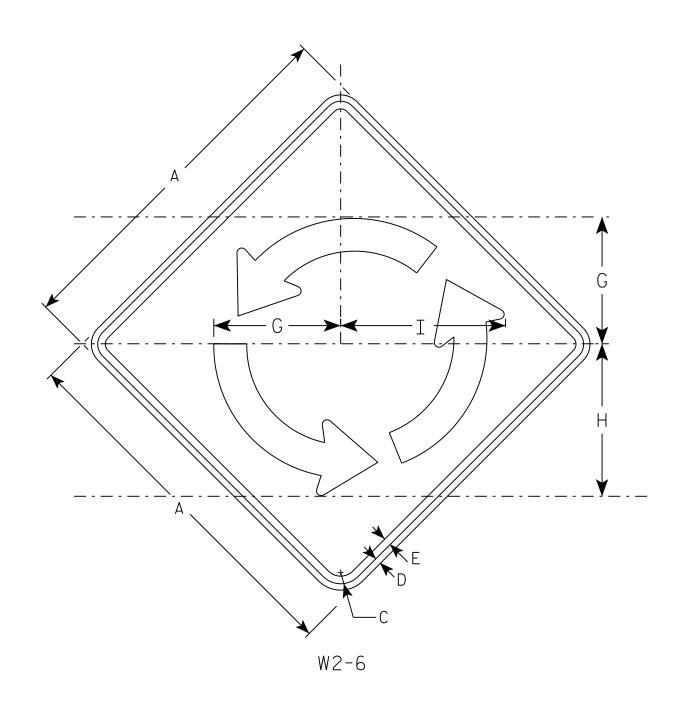
D→

HWY:

PLOT BY: mscsja

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

Background - YELLOW Message - BLACK



SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Area sq. ft.
1																									
25	30		1 3/8	1/2	5/8		10 3/8	12 1/2	13 ½																6.25
2N	30		1 3/8	1/2	5/8		10 3/8	12 1/2	13 ½																6.25
3	36		1 %	5/8	3/4		12 1/2	15	16 1/4																9.00
4	48		2 1/4	3/4	1		16 5/8	20	16 1/4																16.0
5																									

STANDARD SIGN W2-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

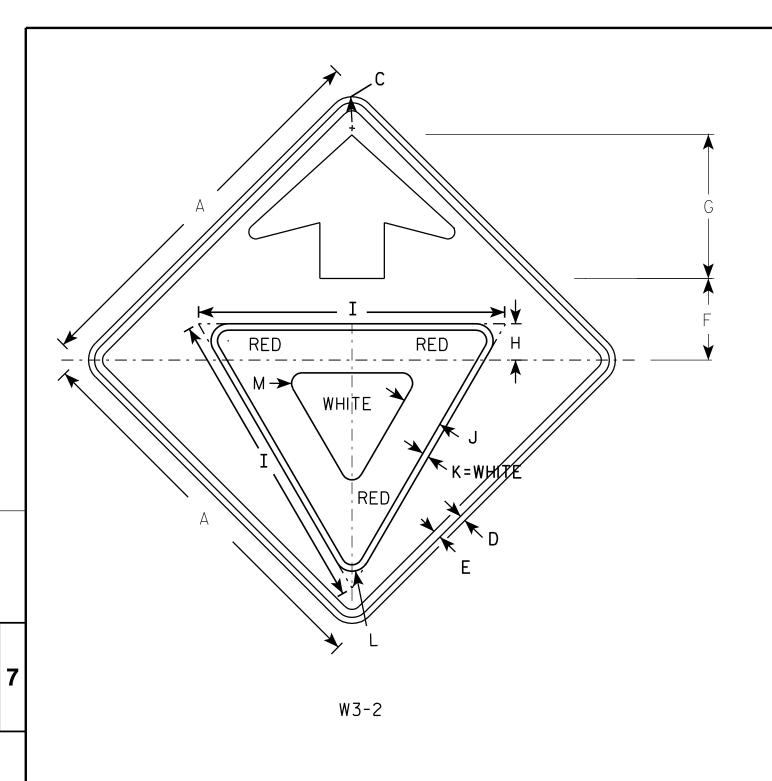
Matther & Law

For State Traffic Engineer

DATE 3/15/18 PLATE NO. __W2-6.6

SHEET NO:

PROJECT NO:



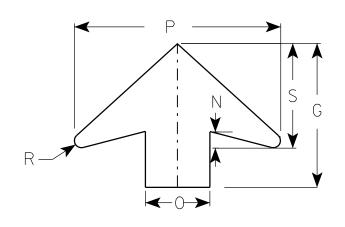
<u>NOTES</u>

- 1. All Signs Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - YELLOW

Arrow & Border - BLACK

Yield Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	Α	В	С	D	Ε	F	G	Н	I	C	K	L	М	N	0	P	0	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	3	25	3 %	1/2	1 3/8	1 /8	1 1/4	5	16		1/2	8								6.25
2S	36		1 %	5/8	3/4	7 1/2	13 1/2	3 %	28	3 3/4	5/8	1 1/2	1	1 %	6	19 1/4		5/8	9 3/4								9.0
2M	36		1 %	5/8	3/4	7 1/2	13 1/2	3 %	28	3 3/4	5/8	1 1/2	1	1 %	6	19 1/4		5/8	9 3/4								9.0
3	36		1 %	5/8	3/4	7 1/2	13 1/2	3 %	28	3 3/4	5/8	1 1/2	1	1 %	6	19 1/4		5/8	9 3/4								9.0
4	48		2 1/4	3/4	1	10	17 1/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 %		7 /8	13								16.0
5	48		2 1/4	3/4	1	10	17 1/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 %		7 /8	13								16.0

STANDARD SIGN W3-2

WISCONSIN DEPT OF TRANSPORTATION

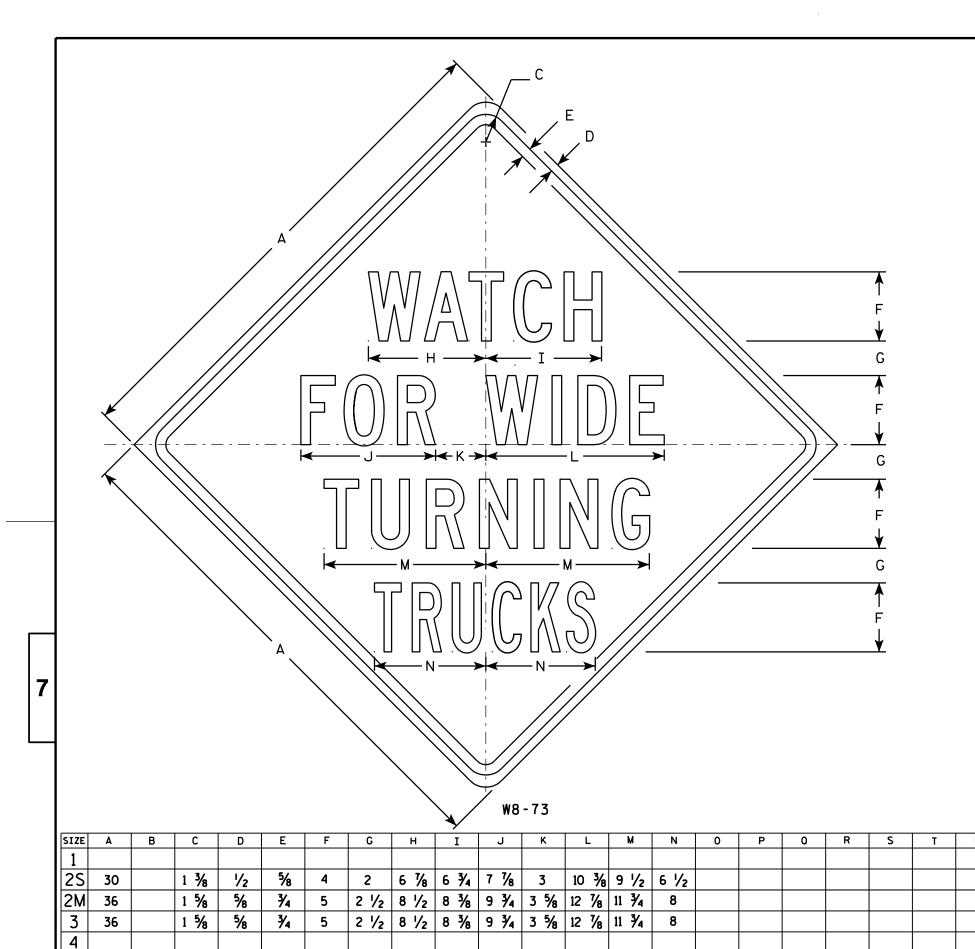
APPROVED Matthew

For State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-2..9

SHEET NO:

PROJECT NO:



HWY:

<u>NOTES</u>

- 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 except line 4 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.

6.25

9.0

9.0

STANDARD SIGN W8-73

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

DATE 03/18/13

<u>/13</u> PLATE NO. <u>W8-73.3</u> SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W873.DGN

5

PROJECT NO:

PLOT DATE: 18-MAR-2013 11:38

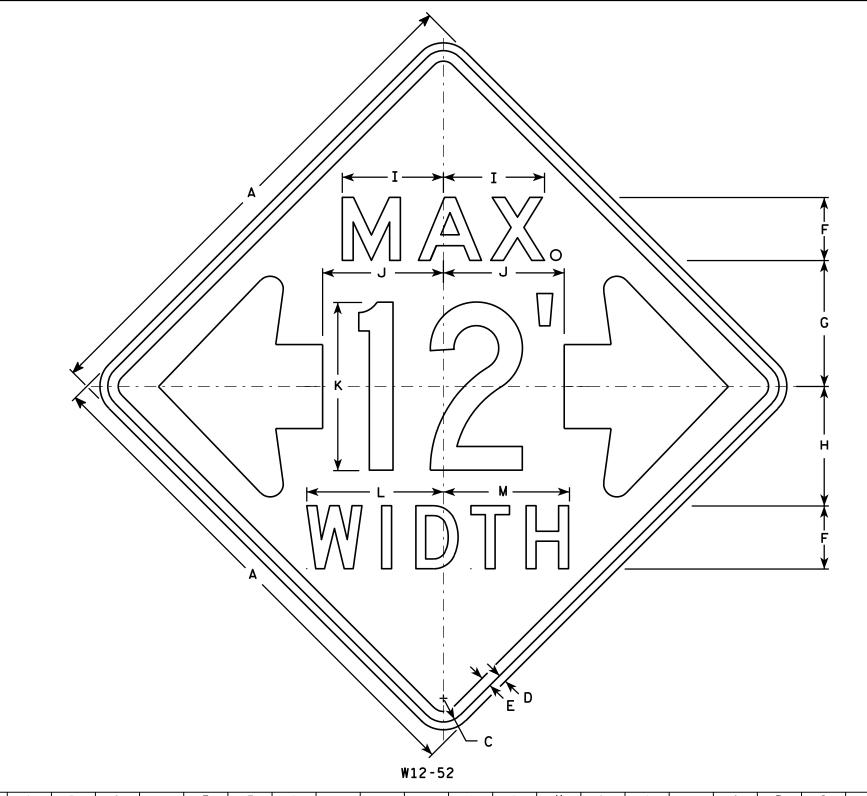
COUNTY:

PLOT BY: mscsja

PLOT NAME :

PLOT SCALE: 6.946654:1.000000

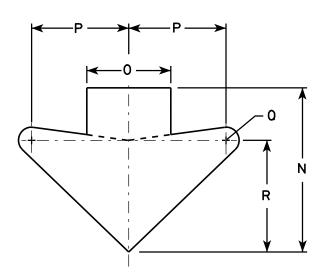
WISDOT/CADDS SHEET 42



- 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

CT TE			T ^ T					ш					1.4		_		_		_					· ·	· ·	7	Area
SIZE	Α	В	L L	ט	-	F	G	Н	l I	J	K	L	M	N	U	P	U	R	>	l	U	V	W	X	Y		Areg sq. ft.
1																											
2S	48		2 1/4	¾	1	6	12	11 3/8	9 %	11 1/2	16	13	12	15 %	8	9 1/4	1 1/4	10 %									16.0
2M	48		2 1/4	3∕4	1	6	12	11 3/8	9 %	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 %									16.0
3																											
4																											
5				•																						•	

COUNTY:

STANDARD SIGN W12-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

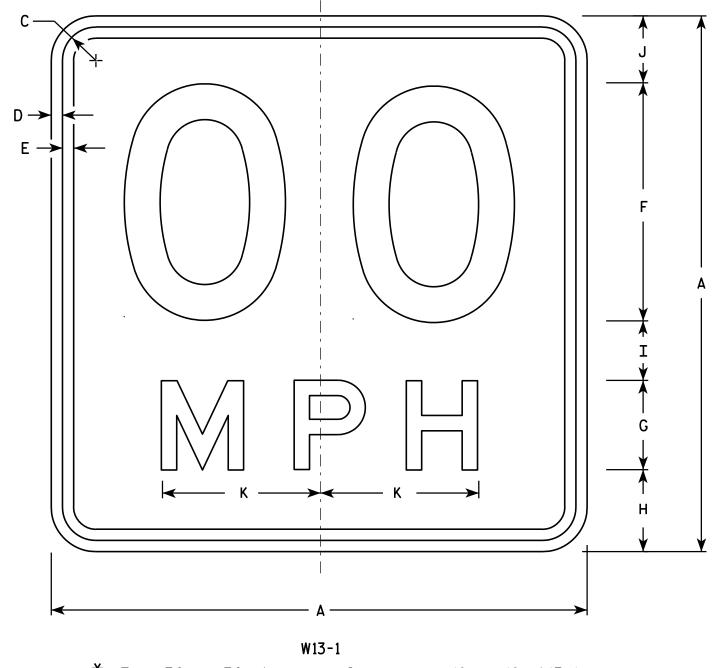
DATE 3/16/11 PLATE NO. W12-52.7

SHEET NO:

HWY:

PROJECT NO:

PLOT NAME :



- 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 See Note 6
- 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 space about centerline to achieve proper balance.
- 6. Line 1 is Series D Line 2 is Series E

* For 30" \times 30" Warning Signs, use 18" \times 18" W13-1 signs. For 36" \times 36" Warning Signs, use 24" \times 24" W13-1 signs.

SIZE	A	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1	18		1 1/8	3∕8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
* 2S	18		1 1/8	3∕8	3/8	8	3	2 3/4	2	2 1/4	5 %																2.25
* 2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
4	36		1 1/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 %																9.00
5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 %																9.00

STANDARD SIGN W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Ram

 f_{or} State Traffic Engineer S1/12 PLATE NO. W13-1.16

DATE <u>5/31/12</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W131.DGN

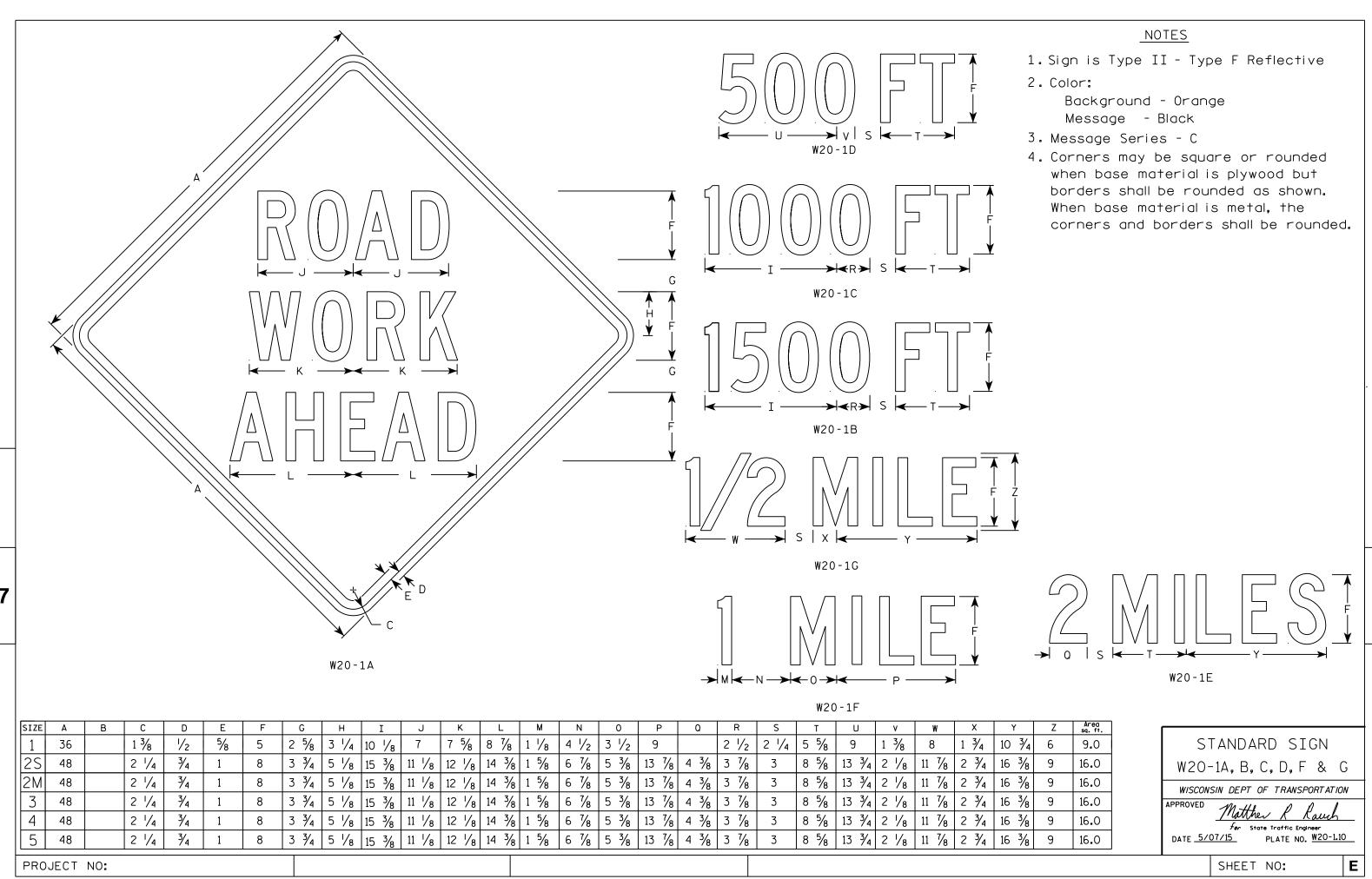
PLOT DATE: 31-MAY-2012 10:57

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 3.225232:1.000000

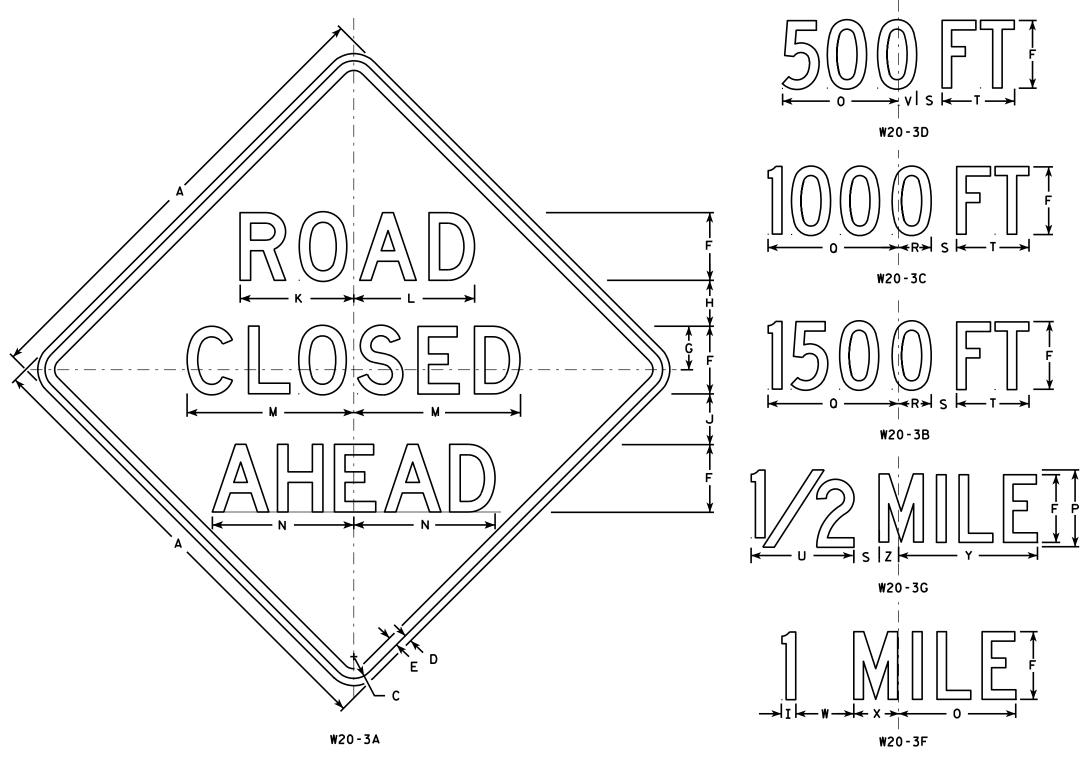
WISDOT/CADDS SHEET 42



FILE NAME . C.\CAFfiles\Projects\tr stdolote\W201 DCN

PLOT DATE . 01-DEC-2015 18.24

PIOT RY * \$\$ plotuser \$\$



- 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.

1 % 5/8 ¾ 8 3/8 8 7/8 12 1/2 5 % 1 3/8 4 1/2 36 3 1/2 10 3/4 1 3/4 8 4 \(\frac{5}{8} \) 14 \(\frac{3}{8} \) 2 \(\frac{3}{8} \) 16.0 3/4 1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 | 7 1/2 10 5/8 1 7/8 2M 3/4 4 \\ 14 \\ 38 \ 2 \\ 38 \ 16.0 48 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 | 7 1/2 10 % 1 % 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 3/4 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 4 % | 14 % | 2 % | 16.0 48 3/4 4 1/2 4 3/4 1 1/2 5 1/4 11 3/4 12 1/2 17 1/4 14 5/8 13 1/2 3 3/8 2 5/8 4 \\ 14 \\ 38 \ 2 \\ 38 \ 16.0 7 1/2 10 5/8 1 7/8 48 5 4 5/8 14 3/8 2 3/8 16.0 3/4 2 1/4 4 1/2 | 4 3/4 | 1 1/2 | 5 1/4 | 11 3/4 | 12 1/2 | 17 1/4 | 14 5/8 | 13 1/2 3 3/8 2 5/8 7 1/2 10 5/8 1 3/8 48

COUNTY:

STANDARD SIGN W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer DATE 3/18/11

PLATE NO. W20-3.7

SHEET NO:

PROJECT NO: FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN HWY:

PLOT DATE: 18-MAR-2011 12:08

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: 9.931739:1.000000

WISDOT/CADDS SHEET 42

- 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. Substitute appropriate numerals to the nearest quarter mile and optically adjust spacing to achieve proper balance.

W057-52

HWY:

* See note 5

SIZE	Α	В	С	D	Ε	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	٧	W	X	Y	Z	Area sq. ft.
1	36	24	1 1/8	3/8	1/2	6	4 1/2	3	4 3/4	14 %	10 %	11 3/8	2	12													6.0
25	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 ½	14	15	2 3/4	16 3/8													12.0
2M	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 ½	14	15	2 3/4	16 3/8													12.0
3	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 ½	14	15	2 3/4	16 3/8													12.0
4	48	36	1 3/8	1/2	5/8	8	7	6	6 3/8	19 ½	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 ½	14	15	2 3/4	16 3/8													12.0

COUNTY:

STANDARD SIGN W057-52

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

SHEET NO:

DATE 3/21/17

PLATE NO. W057-52.2

....

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W05752.DGN

PROJECT NO:

PLOT DATE: 21-MAR-2017 08:53

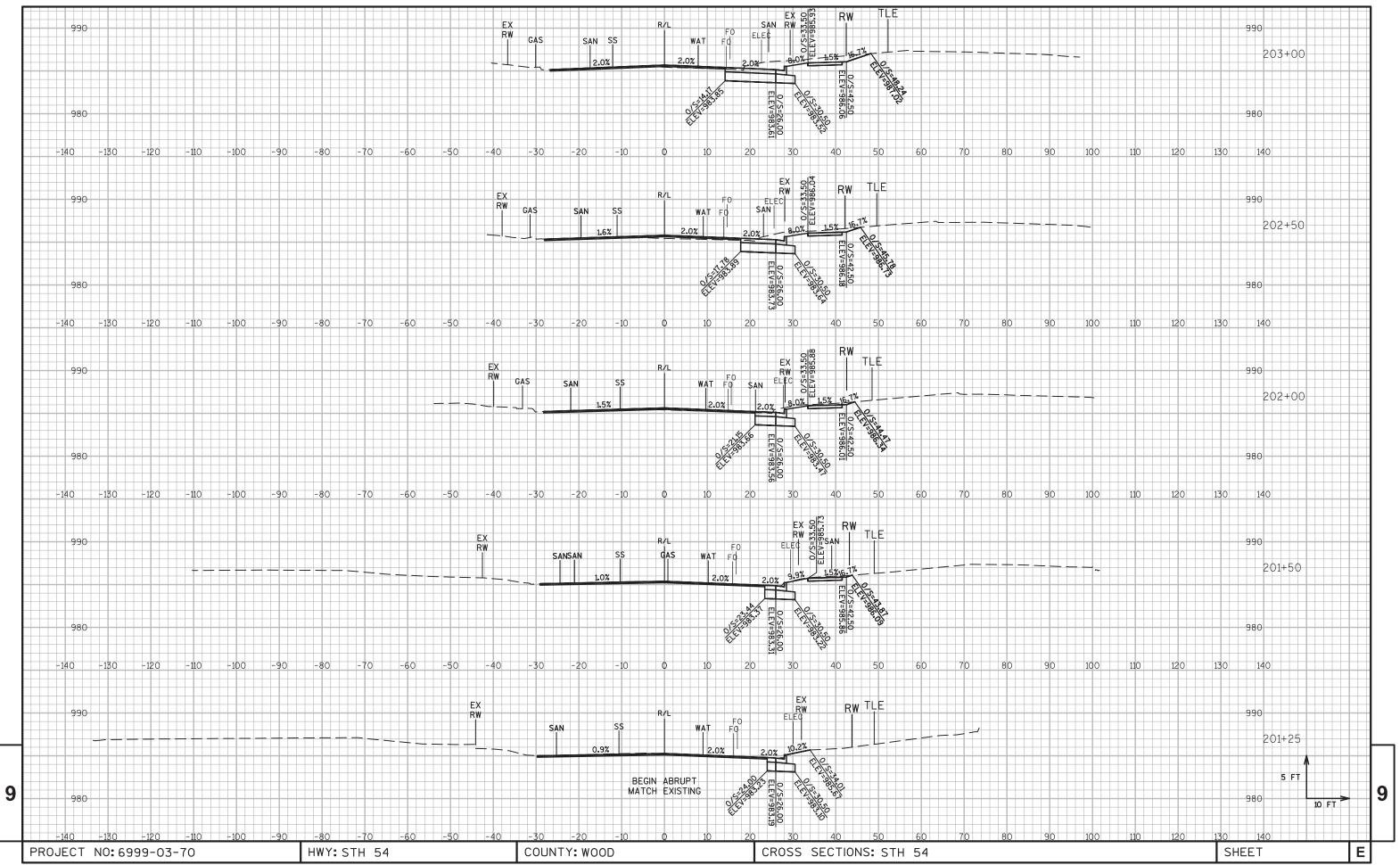
PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

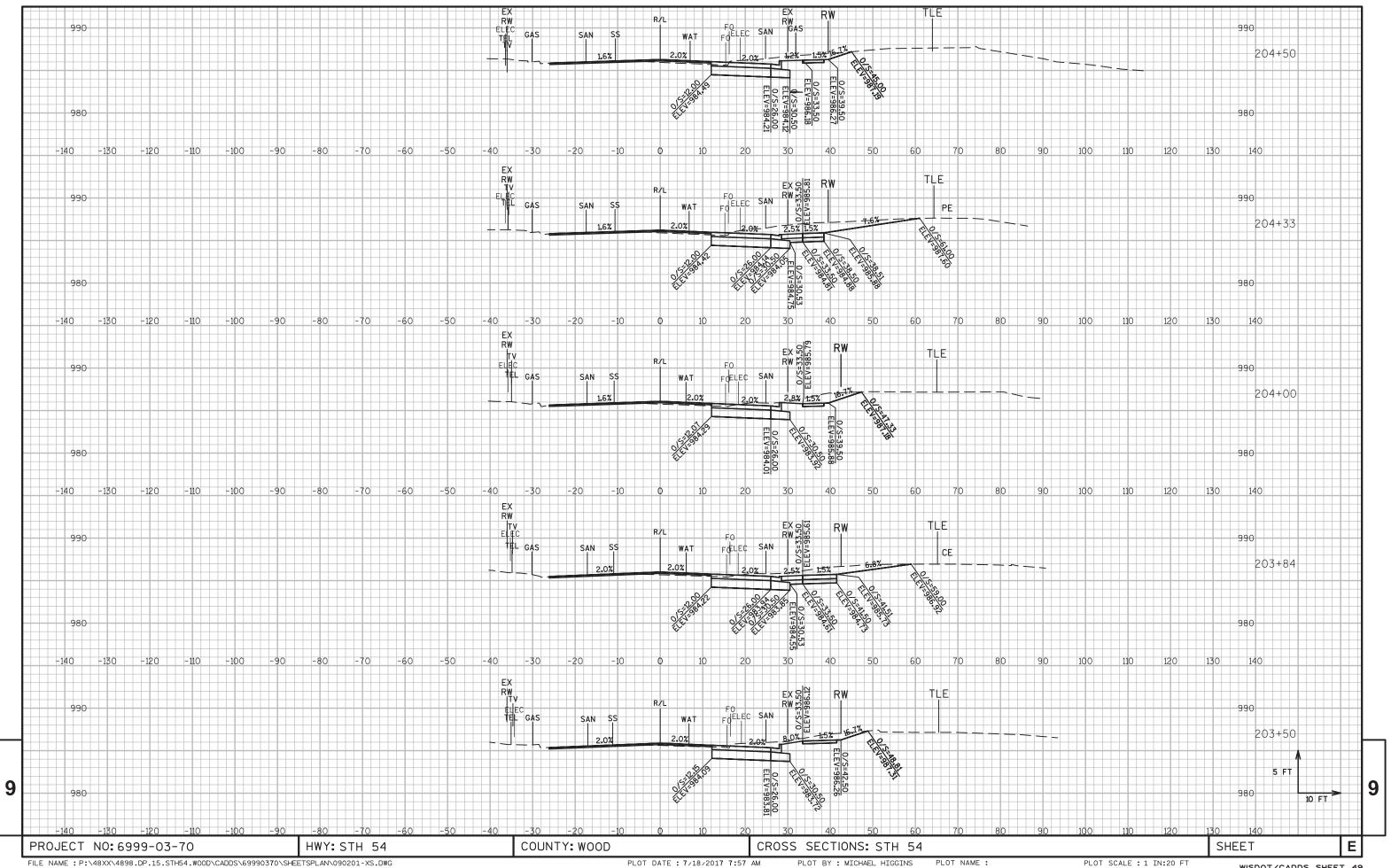
PLOT SCALE: 8.139174:1.000000

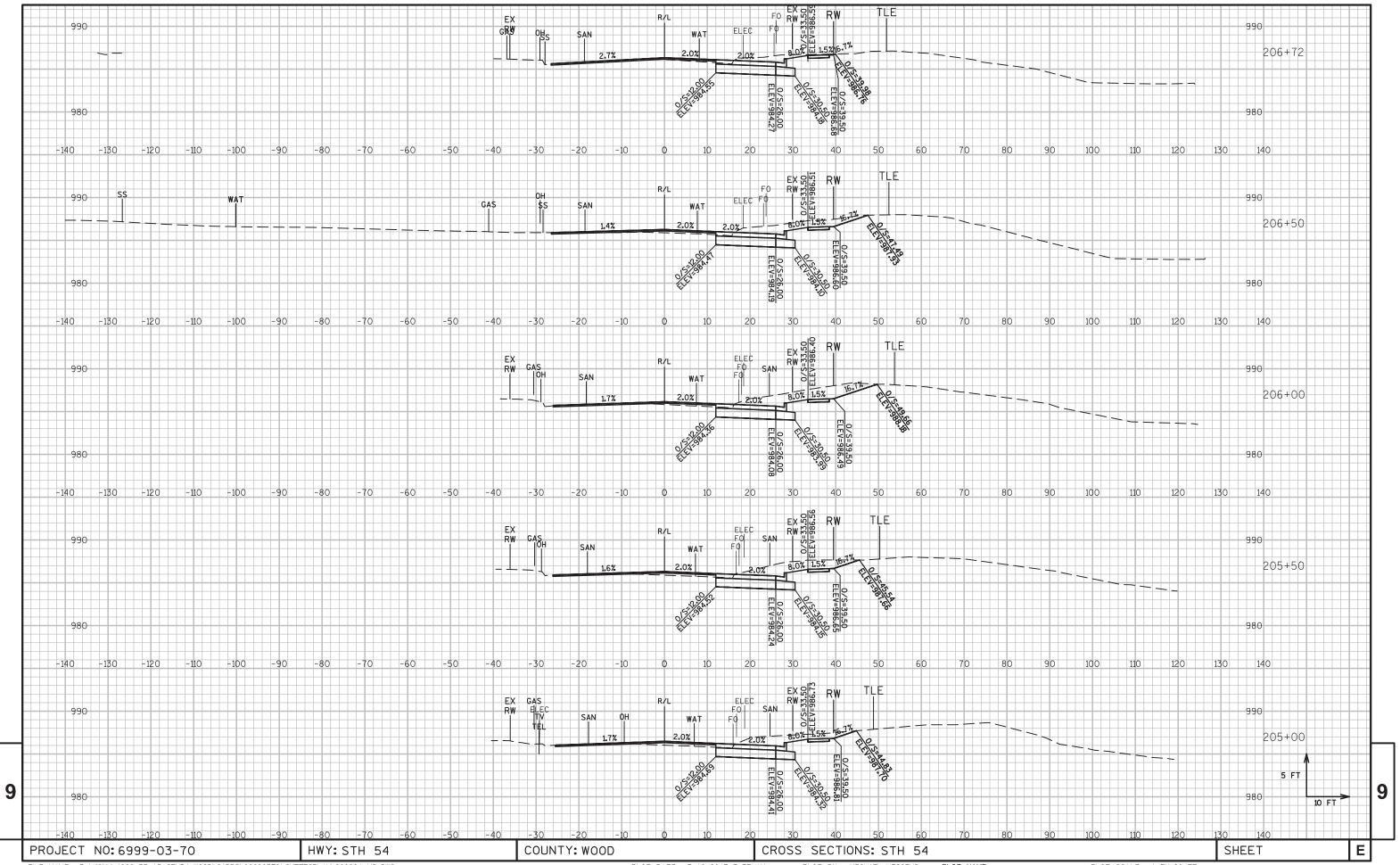
STH 54 WIDENING AREA SF INCREMENTAL VOL (CY) (UNADJUSTED) CUMULATIVE VOL (CY) STATION DISTANCE CUT FILL CUT FILL CUT **EXPANDED FILL** MASS ORDINATE 1.00 1.25 NOTE 1 NOTE 2 NOTE 1 NOTE 3 NOTE 4 201+25 201+50 202+00 202+50 203+00 203+50 203+84 204+00 204+33 204+50 205+00 205+50 206+00 206+50 206+72 207+00 207+21 1,040 1,040 207+50 1,096 1,096 208+00 1,155 1,153 208+50 1,202 1,197 209+00 1,240 1,231 209+50 1,275 1,263 209+84 1,296 1,282 210+00 1,305 1,290 210+50 1,329 1,311 210+59 1,333 1,314 COLUMN TOTALS 1,333

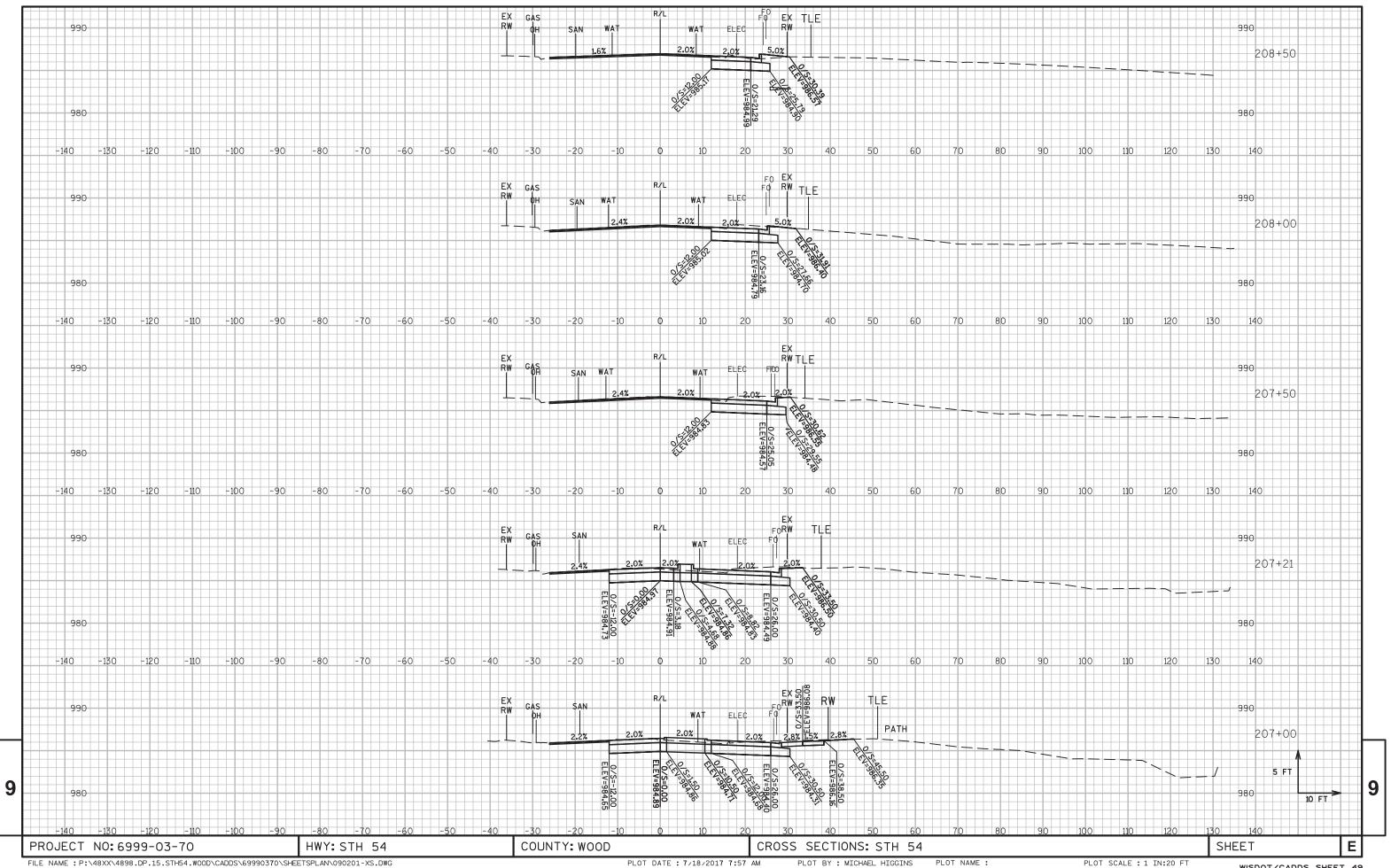
NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL. SALVAGED UNUSABLE PAVEMENT MATERIAL IS CALCULATED ON THE SUMMARY SHEET.
2 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME, SALVAGED UNUSABLE PAVEMENT MATERIAL IS CALCULATED ON THE SUMMARY SHEET.
3 - EXPANDED FILL	(UNEXPANDED FILL) * (FILL FACTOR)
4 - MASS ORDINATE	CUT - (EXPANDED FILL); PLUS INDICATES AN EXCESS OF MATERIAL

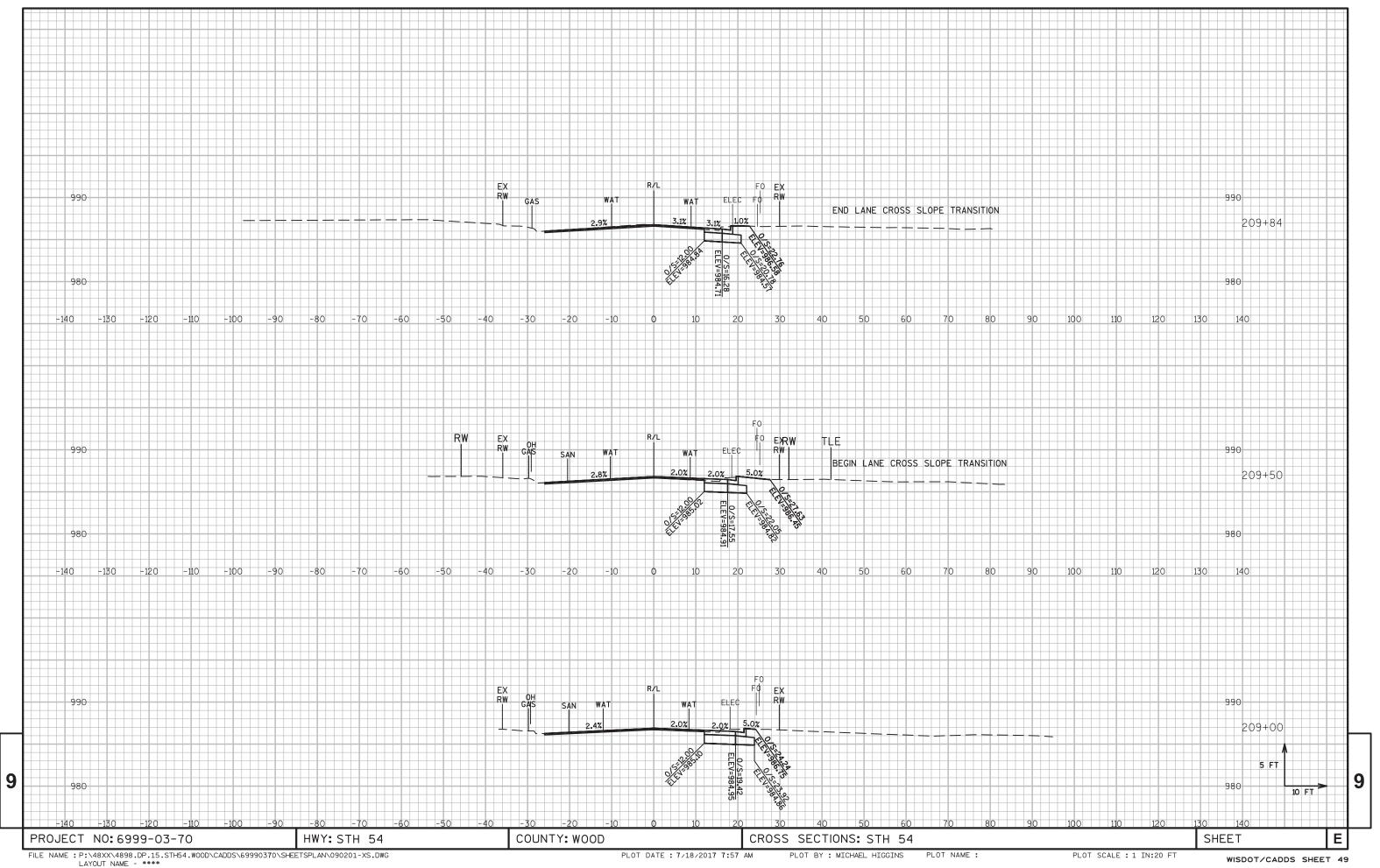
HWY:STH 54 COUNTY: WOOD EARTHWORK SHEET Ε PROJECT NO:6999-03-70 PLOT BY : sgc

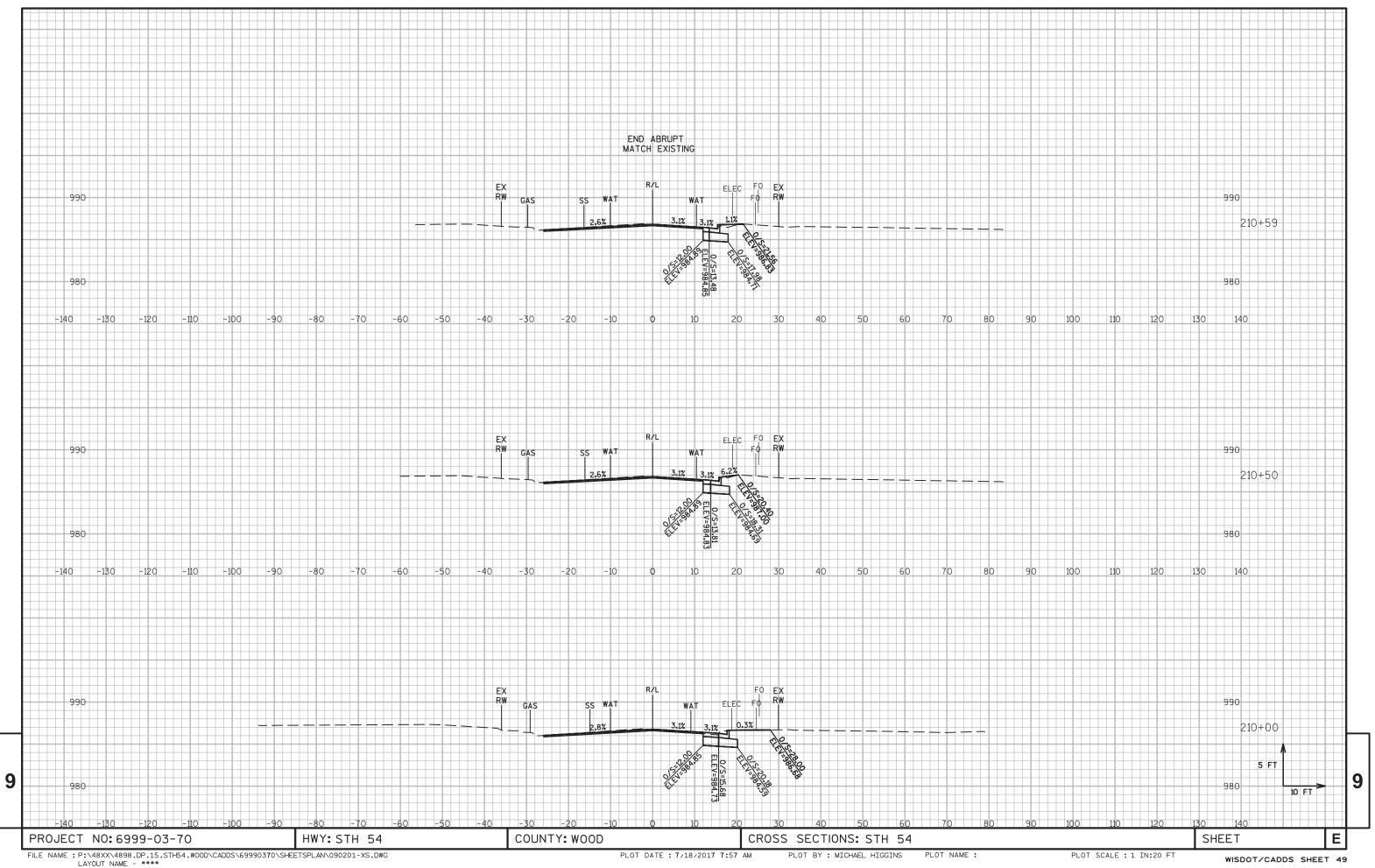














Wisconsin Department of Transportation

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