Section No.

TOTAL SHEETS = 76

SEPTEMBER 2020 STATE OF WISCONSIN ORDER OF SHEETS **DEPARTMENT OF TRANSPORTATION**

PLAN OF PROPOSED IMPROVEMENT

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT WISC 2020419 6220-00-61 1430-00-66 WISC 2020418 1

WAUPACA COUNTY BRIDGE REPAIRS PRINCETON - RIPON

Weyauwega

STRUCTURE B-68-0071

B-68-71, 100, 101, 117, 124, 130

VAR HWY WAUPACA

STH 23 GREEN LAKE

STATE PROJECT NUMBER

1430-00-66

PUCHYAN RIVER BRIDGE B-24-9

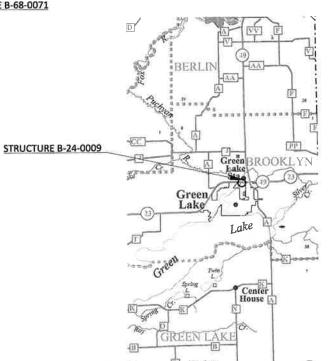


Structure Plans

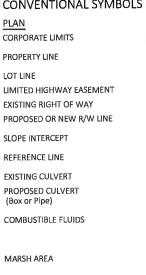
DESIGN DESIGNATION

A.A.D.T.	=	N/A
A.A.D.T.	=	N/A
D.H.V.	=	N/A
D.D.	=	N/A
T,	2	N/A
DESIGN SPEED	=	N/A
FEALE		NI/A

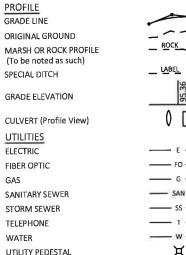
STATE PROJECT NUMBER 6220-00-61

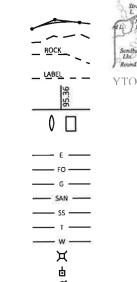


CONVENTIONAL SYMBOLS



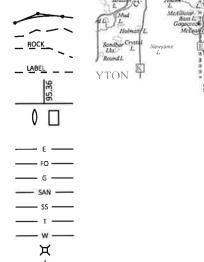
WOODED OR SHRUB AREA

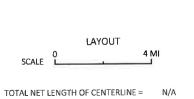




STRUCTURE B-68-0130

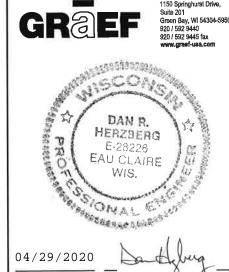
STRUCTURE B-68-0124





STRUCTURE B-68-0100

PLOT NAME:



ORIGINAL PLANS PREPARED BY

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

Surveyor	SURVEYOR
Designer	GRAEF
Project Manager	Wendy Arneson
Regional Examiner	Cheryl Simon
Regional Supervisor	Mike Kretschmer

2

2

GENERAL NOTES

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

THE LOCATION OF EXISTING UTILITY FACILITIES LOCATED WITHIN THE PROJECT ARE NOT SHOWN ON THE PLANS.

DNR CONTACT:
CASEY JONES
473 GRIFFITH AVENUE
WISCONSIN RAPIDS, WI 54494
PHONE: (715) 213-6571 MOBILE
E-MAIL: casey.jones@wisconsin.gov



RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP										
			A		В			С			D	
	SLOPI	E RANGE	(PERCENT)	SL	OPE RANG	GE (PERCENT)	SLC	OPE RANG	GE (PERCENT)	SLOP	E 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 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22	.26 .33	.20 .26	.23	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:	•			•	•		•	•		•	•	•
ASPHALT						.7095						
CONCRETE						.8095						
BRICK	BRICK .7080											
DRIVES, WALKS						.7585						
ROOFS						.7595						
GRAVEL ROADS, SHO	OULDERS		·			.4060	·					·

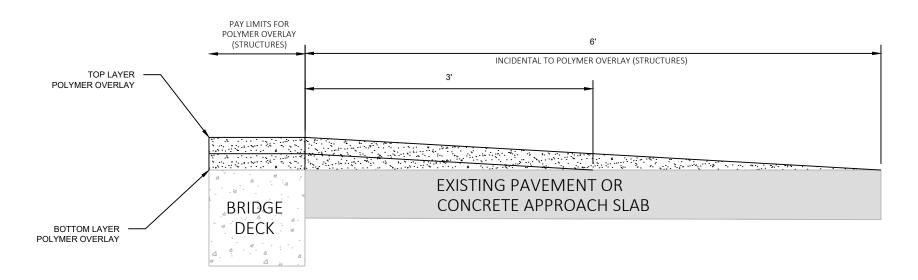
TOTAL PROJECT AREA = 0.01 ACRES

FILE NAME :

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.01 ACRES

PROJECT NO: 1430-00-66 & 6220-00-61 HWY: VARIOUS COUNTY: GREEN LAKE/WAUPACA GENERAL NOTES SHEET **E**

X:\GB\2019\2019\2011\CAD\TRANSPORTATION\DWG\SHEETSPLAN\020101_GN.DWG PLOT DATE: 3/16/2020 8:56 AM PLOT BY: LAMPSHIRE, BRYAN PLOT NAME: PLOT SCALE: 1 IN:100 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - 020101



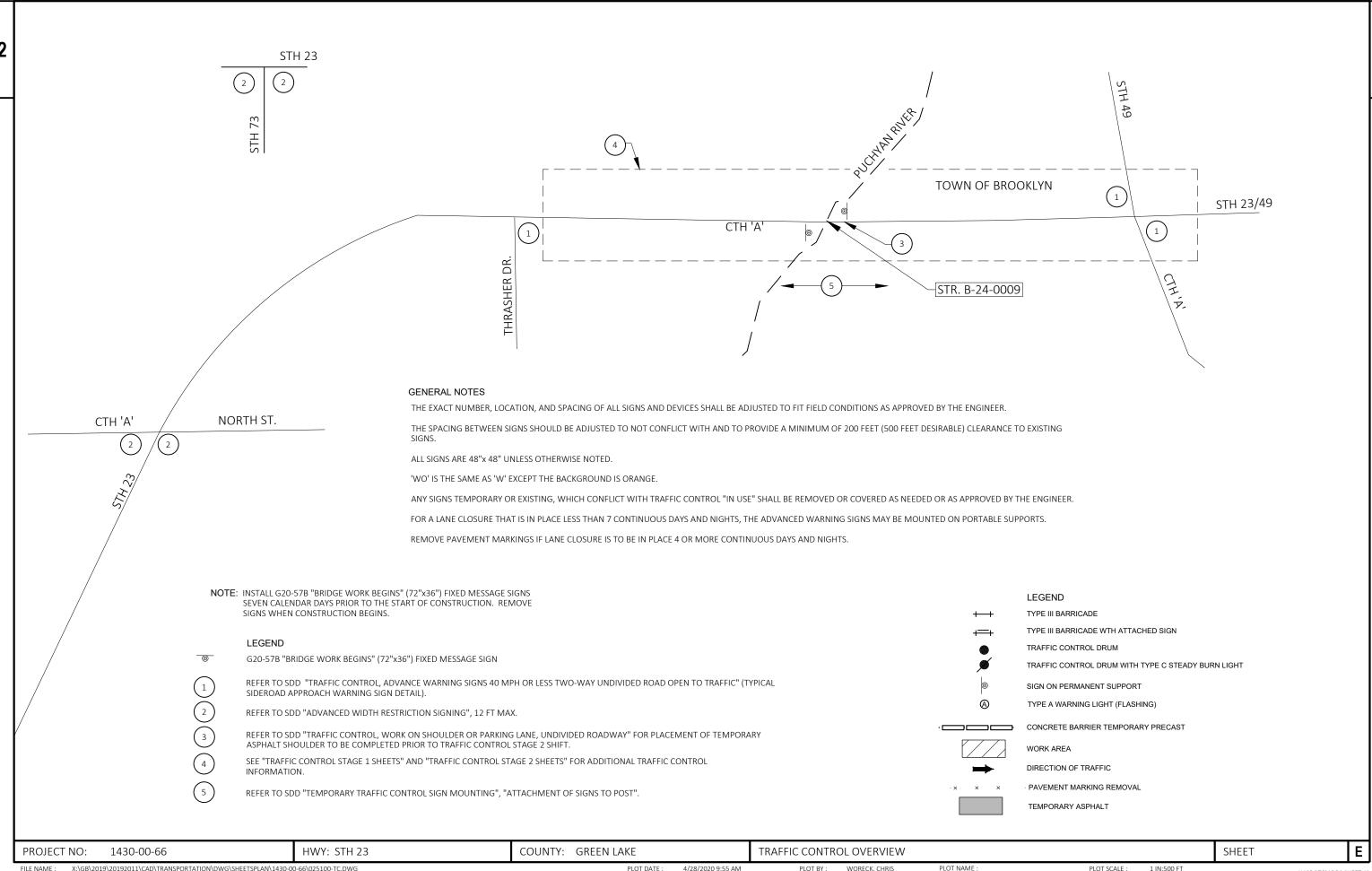
POLYMER OVERLAY TRANSITIONAL AREA

NOTES:

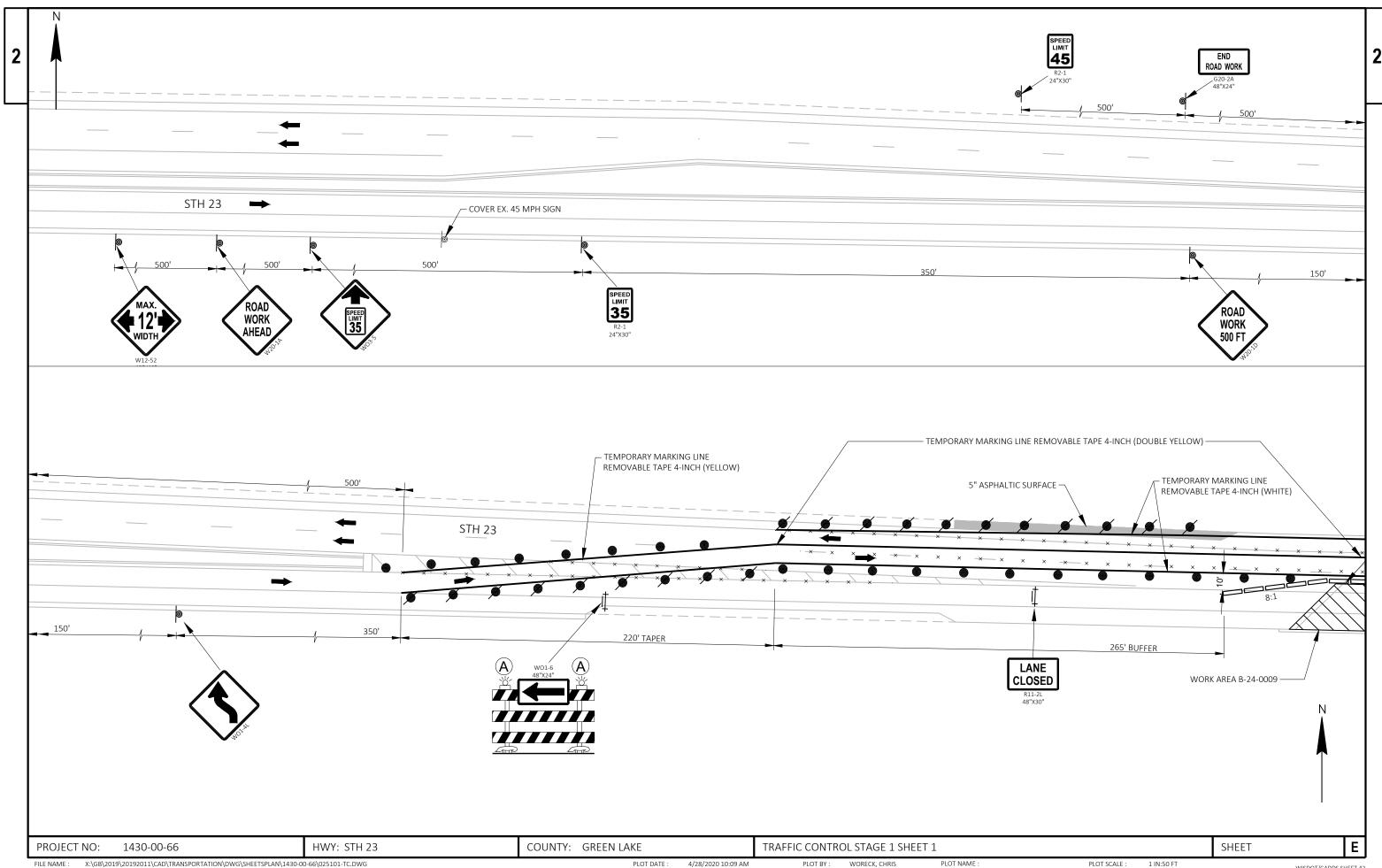
- POLYMER OVERLAY TO BE PLACED FULL WIDTH COVERING PAVEMENT AND SHOULDERS.
- 2) MASK OFF EXISTING END JOINT AS DIRECTED BY THE ENGINEER.

PROJECT NO: HWY: VARIOUS COUNTY: WAUPACA SHEET Ε 6220-00-61 CONSTRUCTION DETAILS

PLOT NAME :

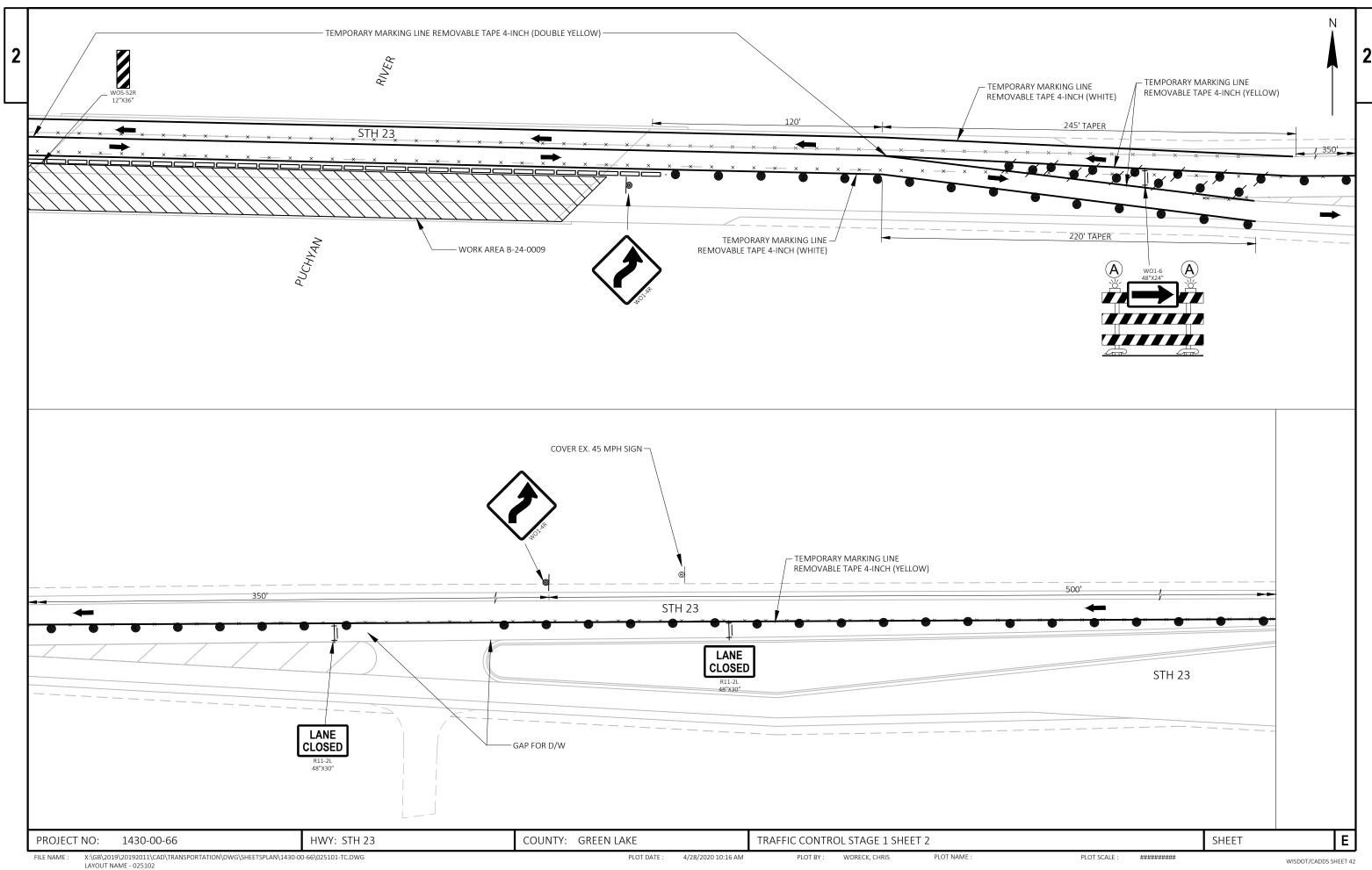


: X:\GB\2019\2019\2019\CADDS\TRANSPORTATION\DWG\SHEETSPLAN\1430-00-66\025100-TC.DWG PLOT DATE : 4/28/2020 9:55 AM PLOT BY : WORECK, CHRIS PLOT NAME : PLOT SCALE : 1 IN:500 FT WISDOT/CADDS SHEET 42 AYOUT NAME - 025100

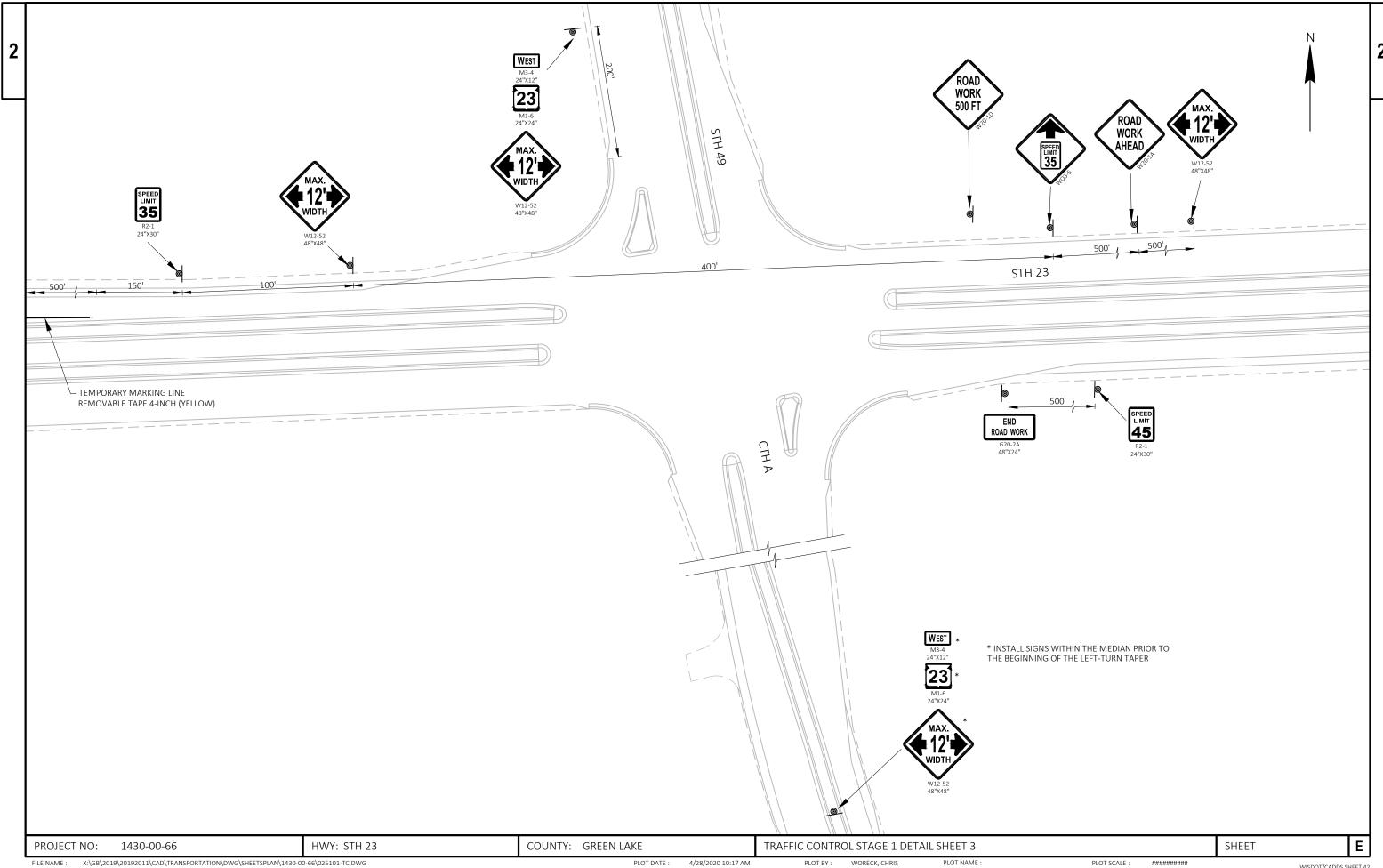


X:\GB\2019\2019\2011\CAD\TRANSPORTATION\DWG\SHEETSPLAN\1430-00-66\025101-TC.DWG LAYOUT NAME - 025101

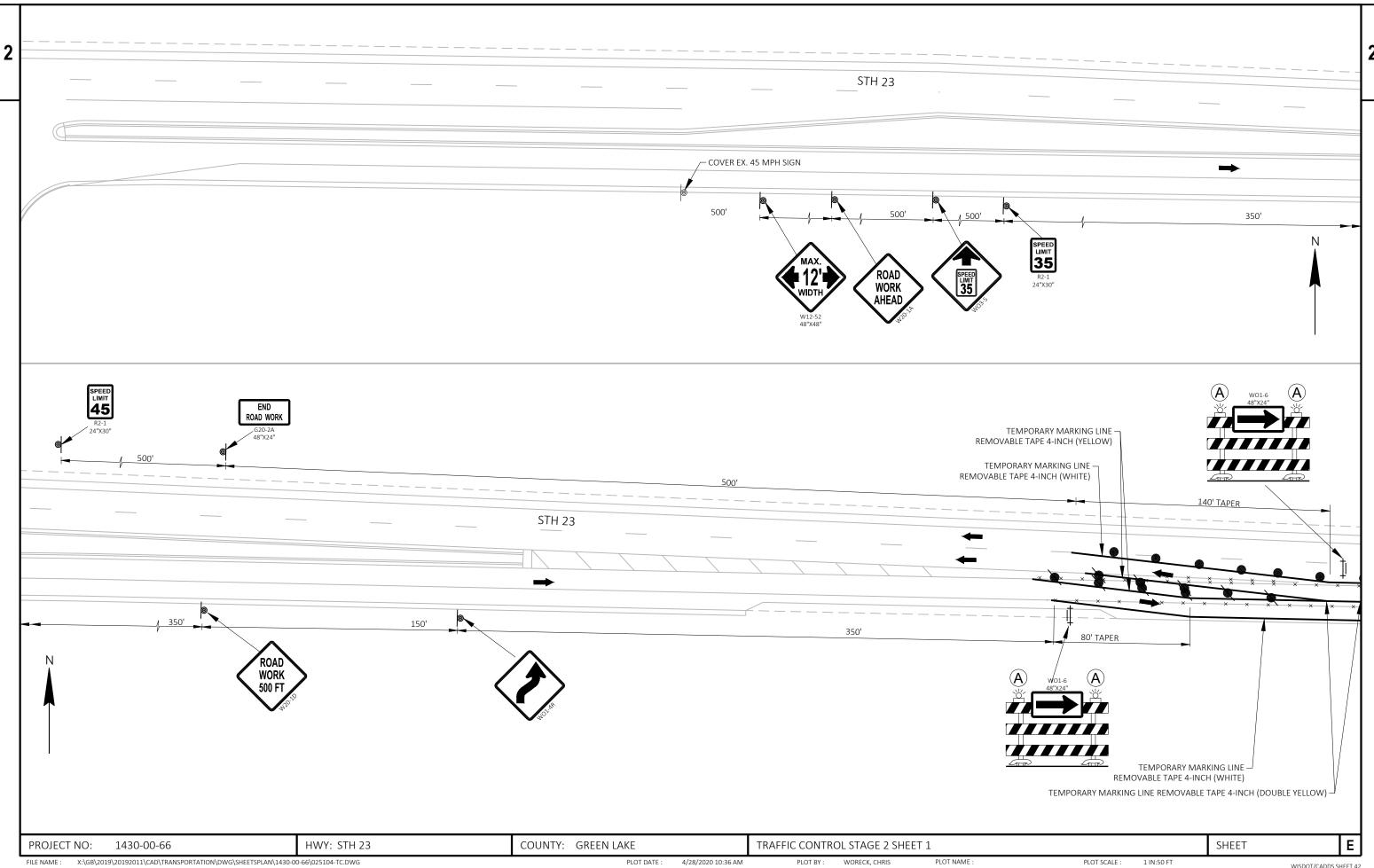
1 IN:50 FT



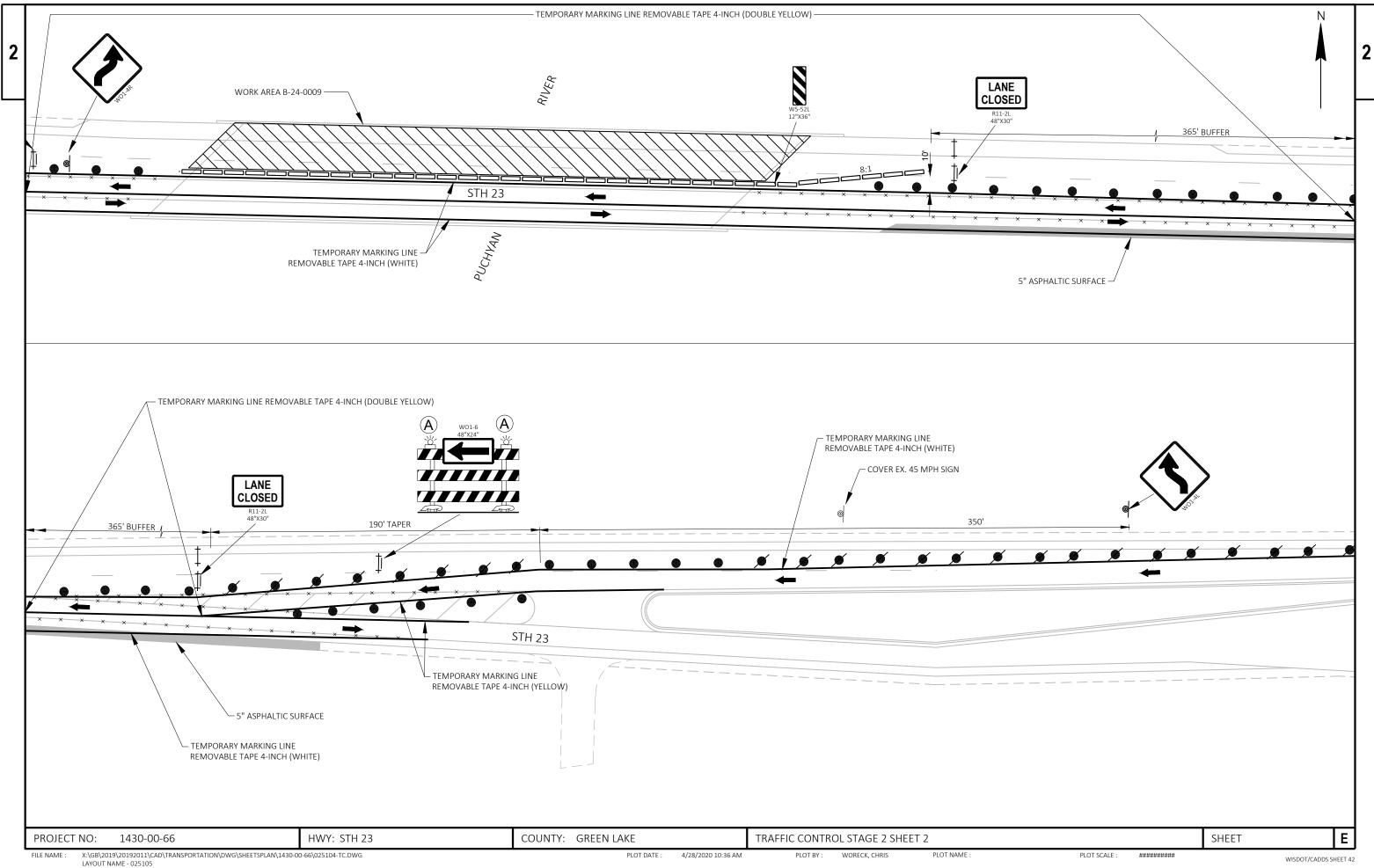
WISDOT/CADDS SHEET 42

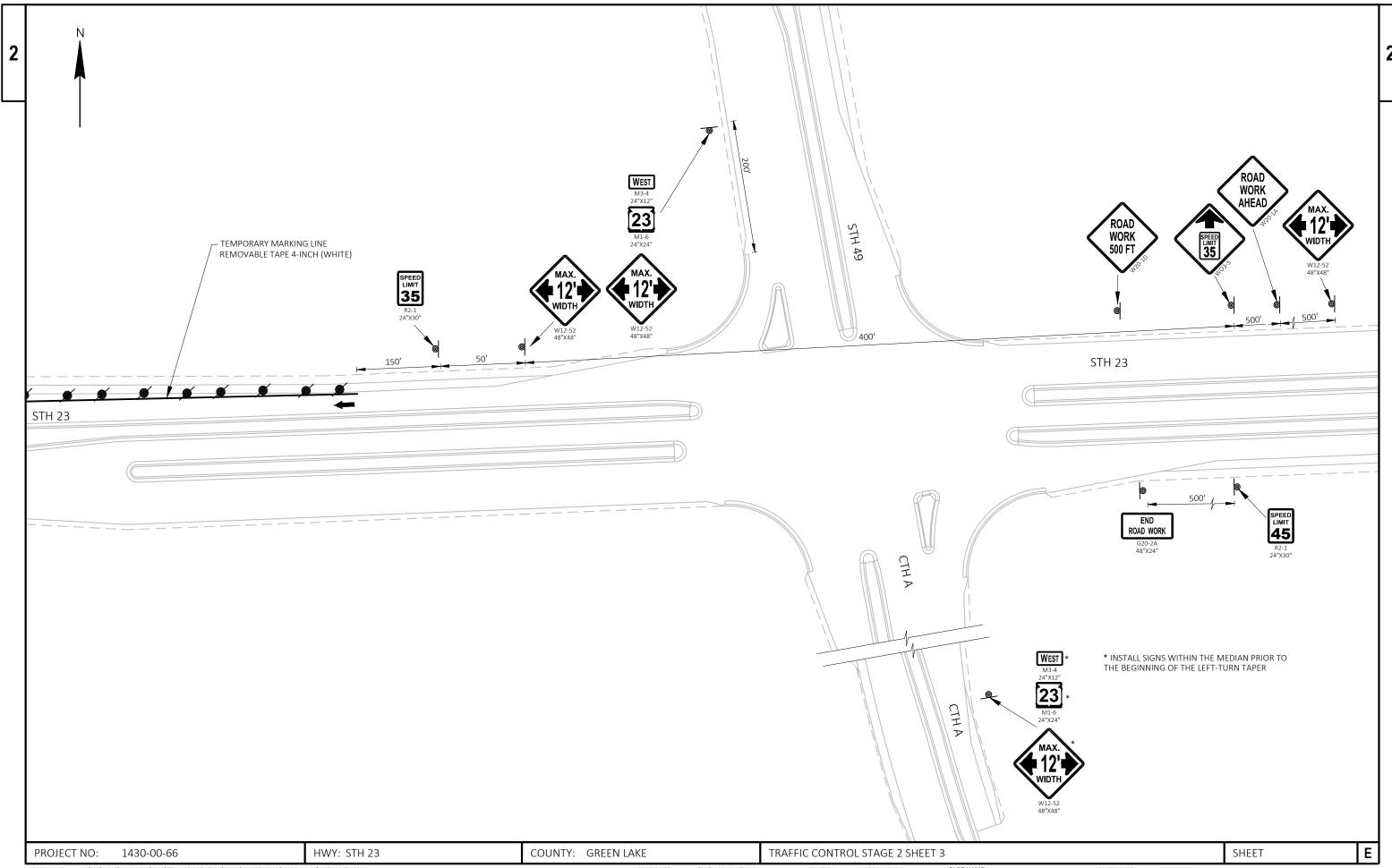


X:\GB\2019\20192011\CAD\TRANSPORTATION\DWG\SHEETSPLAN\1430-00-66\025101-TC.DWG LAYOUT NAME - 025103 WISDOT/CADDS SHEET 42

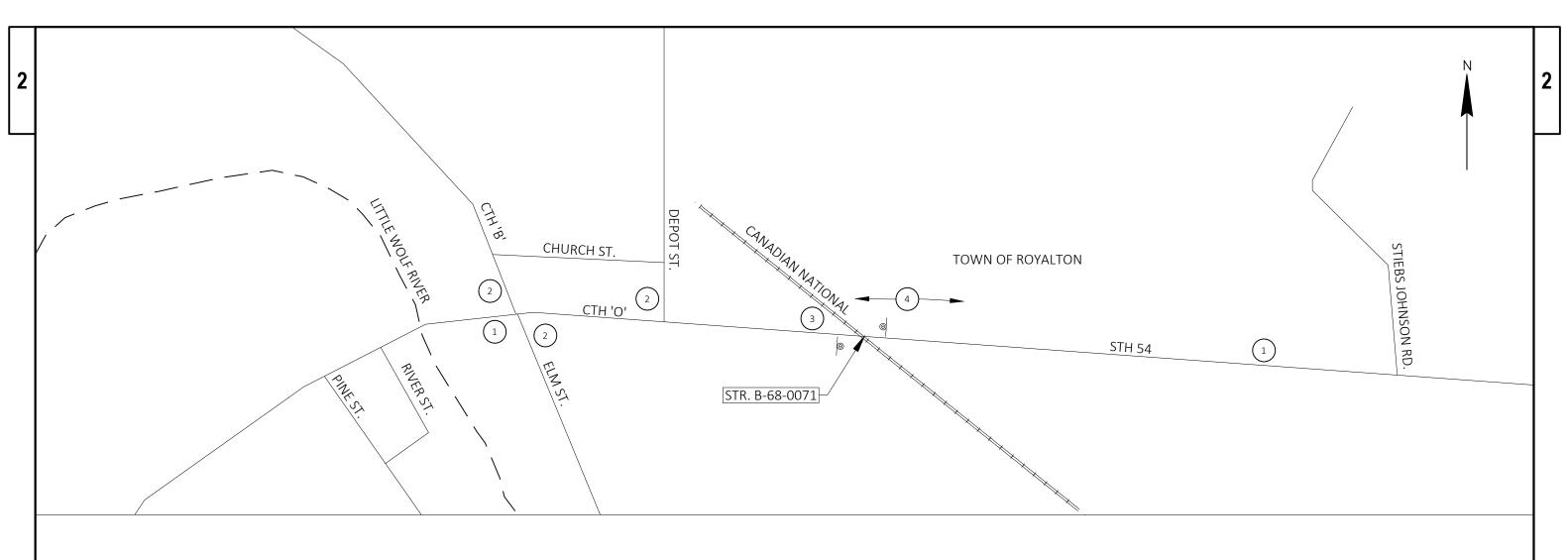


X:\GB\2019\2019\2011\CAD\TRANSPORTATION\DWG\SHEETSPLAN\1430-00-66\025104-TC.DWG LAYOUT NAME - 025104





WISDOT/CADDS SHEET 42



GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE FNGINFER

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

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

'WO' IS THE SAME AS 'W' EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER.

FOR LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

NOTE: INSTALL G20-57B "BRIDGE WORK BEGINS" (72"x36") FIXED MESSAGE SIGNS SEVEN CALENDAR DAYS PRIOR TO THE START OF CONSTRUCTION. REMOVE SIGNS WHEN CONSTRUCTION BEGINS.

LEGEND

© G20-57B " BRIDGE WORK BEGINS" (72"x36") FIXED MESSAGE SIGN

REFER TO SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC".

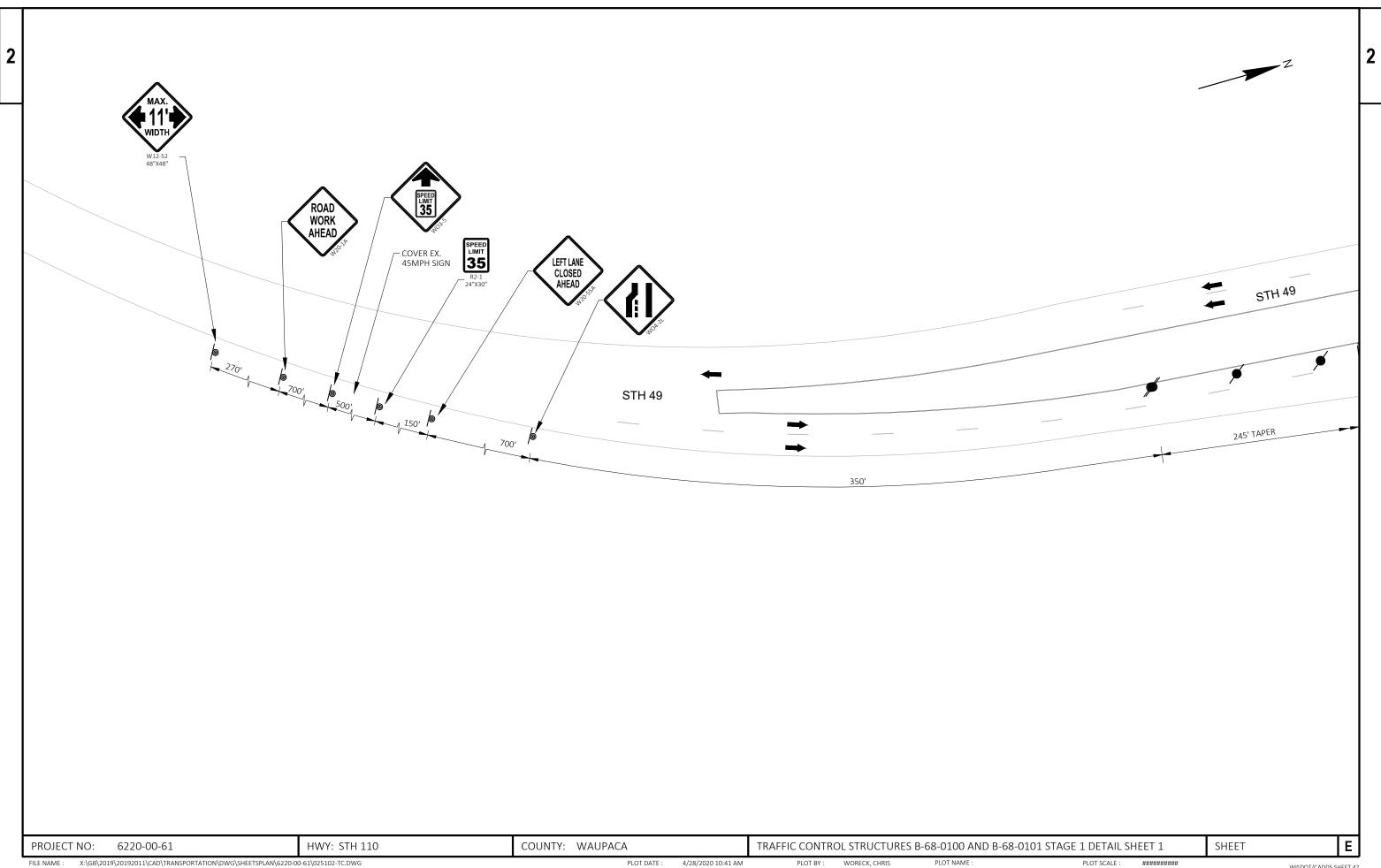
REFER TO SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC" (TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL).

REFER TO SDD "TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS" AND SDD "BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION",

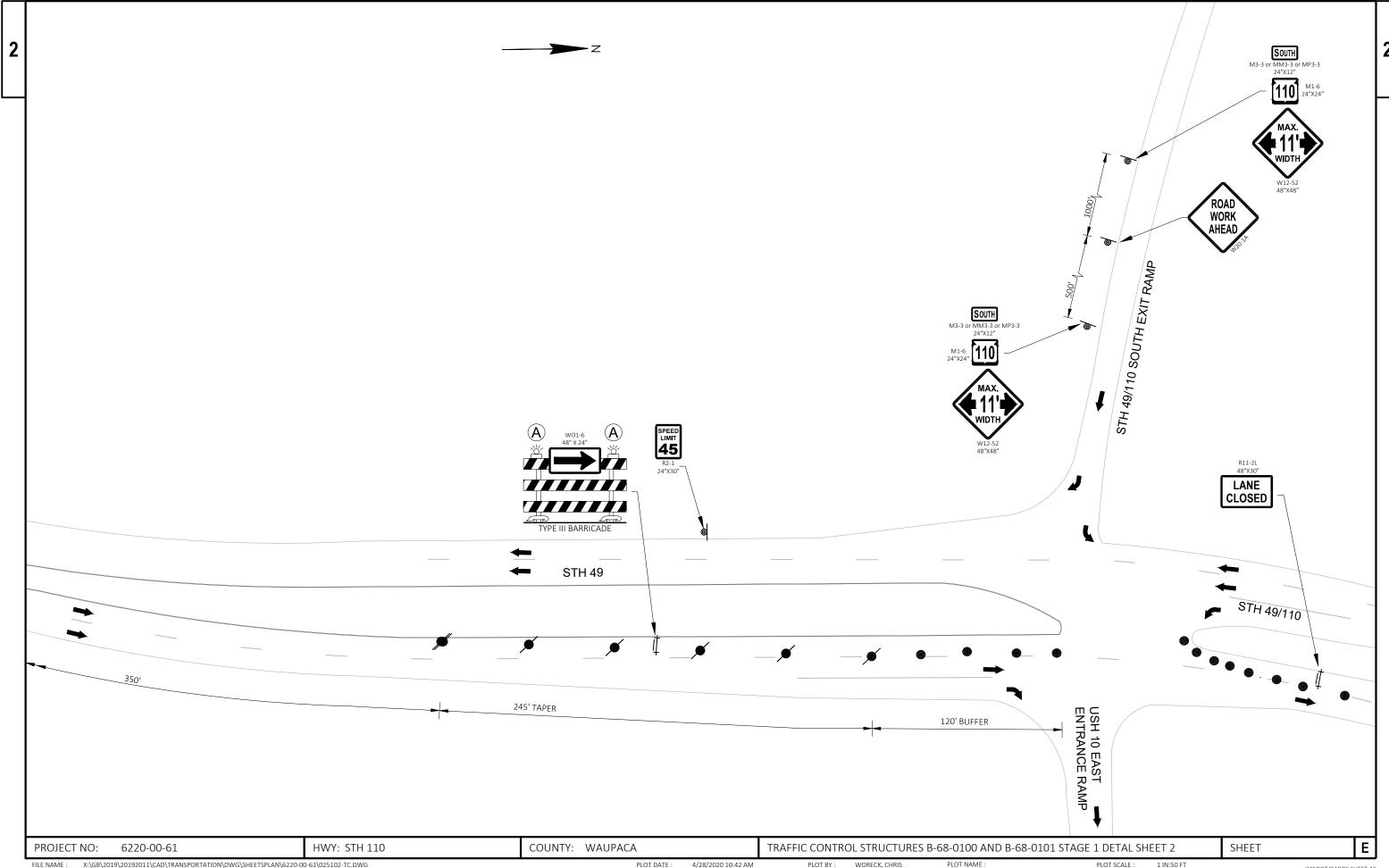
REFER TO SDD "TEMPORARY TRAFFIC CONTROL SIGN MOUNTING", "ATTACHMENT OF SIGNS TO POST".

PROJECT NO: 6220-00-61 HWY: STH 54 COUNTY: WAUPACA TRAFFIC CONTROL STRUCTURE B-68-0071 SHEET E

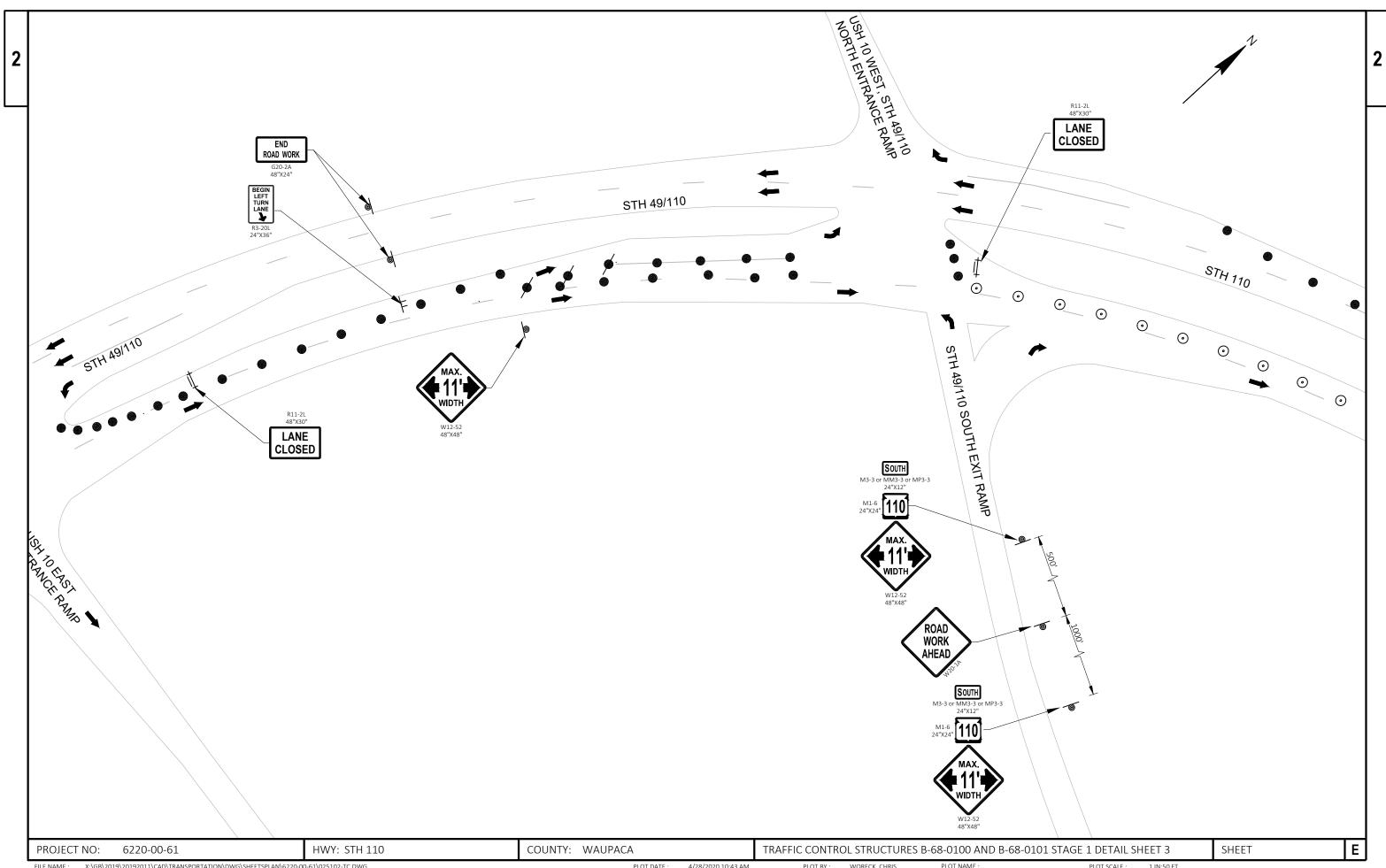
FILE NAME : X:\(\)G\(\)2019\\\2019\\\2019\\\2019\\\2019\\\2019\\\2019\\\\2019\\\\2019\\\\2019\\\\2019\\\\2019\\\\2019\\\\2019\\\\\2019\\\\\2019\\\\2019\\\\2019\\\\2019\\\\\2019\\\2019\\\\2019\\\\2019\\\\2019\\2019\\20



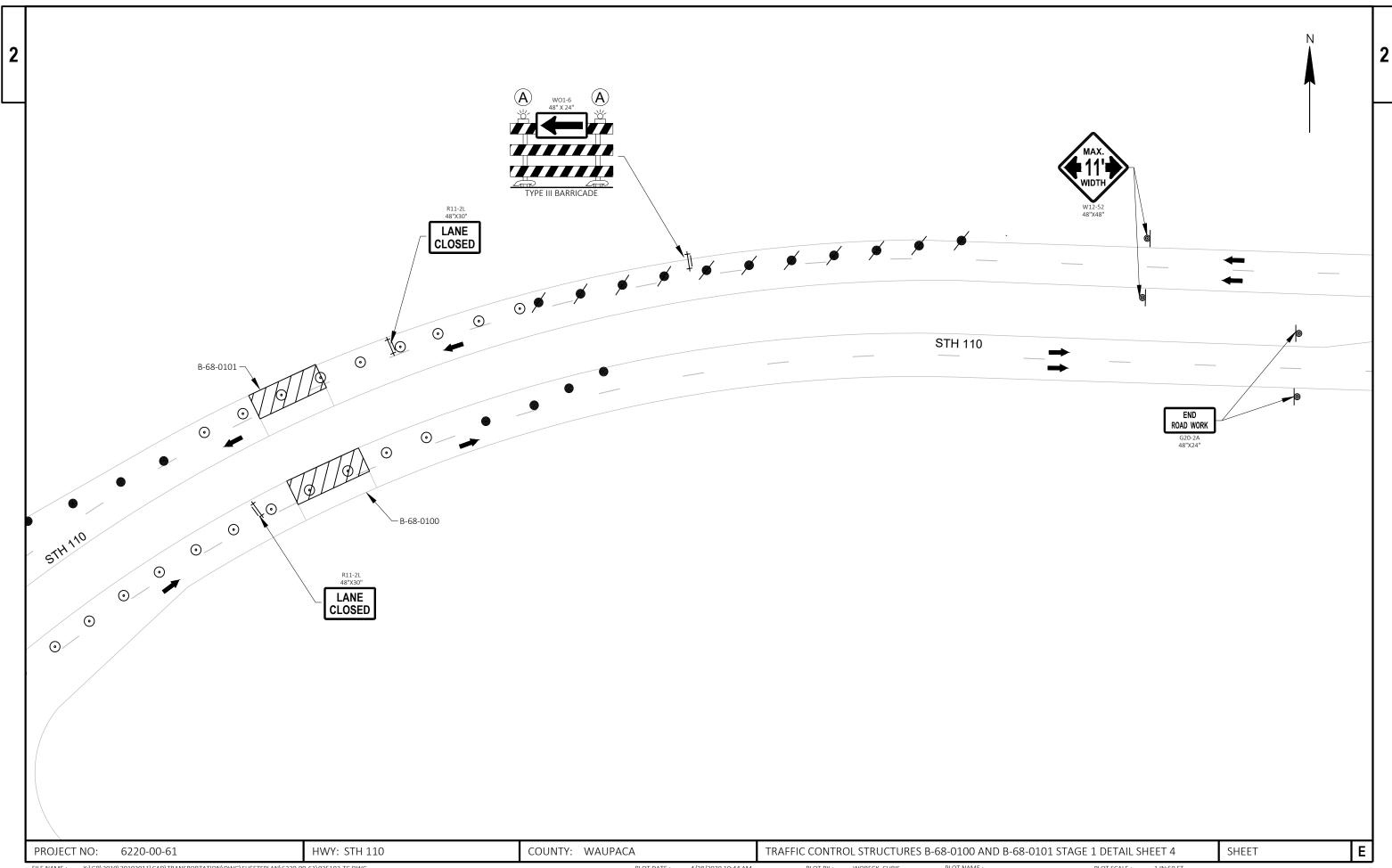
X:\GB\2019\20192011\CAD\TRANSPORTATION\DWG\SHEETSPLAN\6220-00-61\025102-TC.DWG LAYOUT NAME - 025102 PLOT DATE : 4/28/2020 10:41 AM WISDOT/CADDS SHEET 42



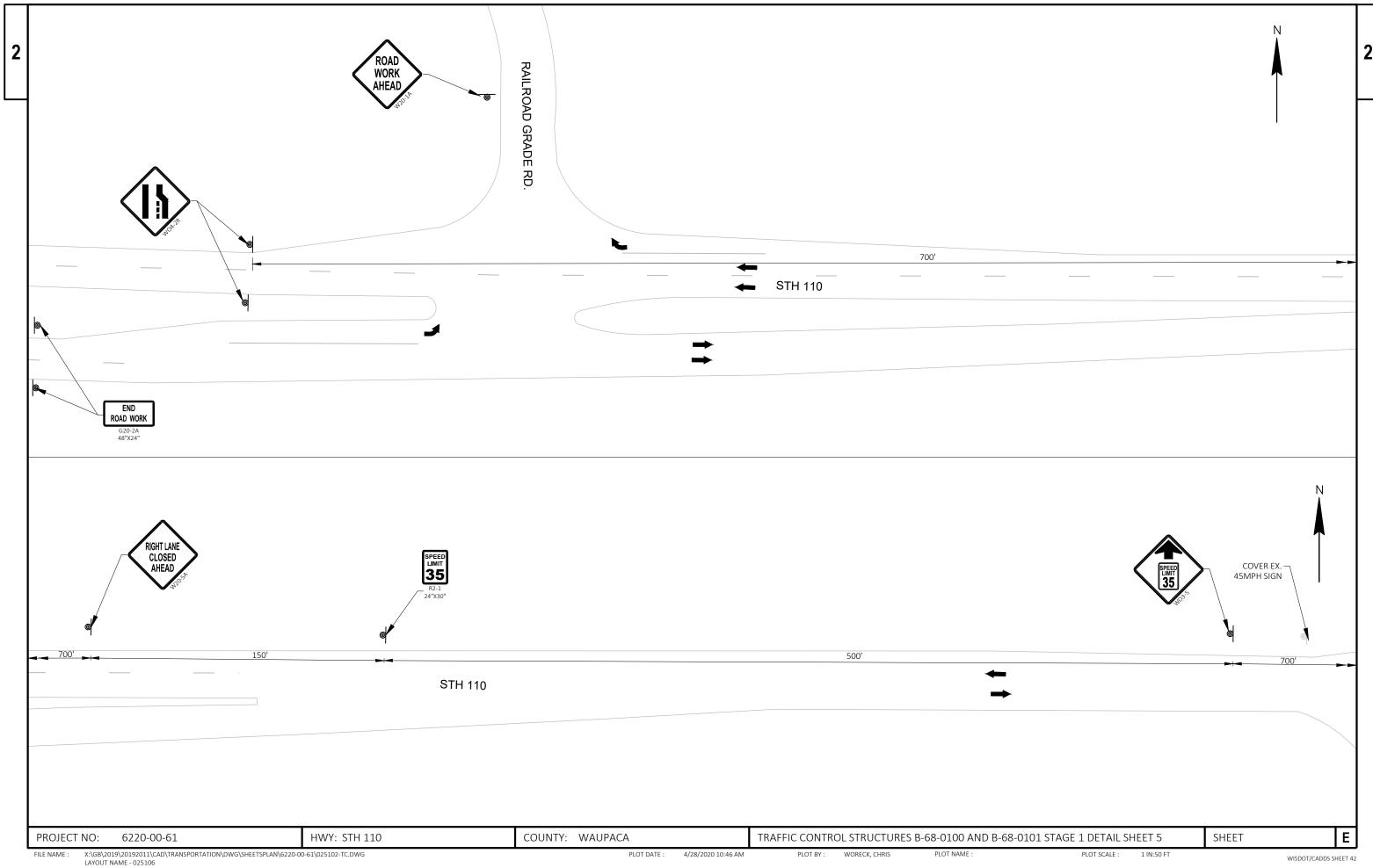
X:\GB\2019\2019\2011\CAD\TRANSPORTATION\DWG\SHEETSPLAN\6220-00-61\025102-TC.DWG LAYOUT NAME - 025103 FILE NAME : PLOT DATE : 4/28/2020 10:42 AM PLOT BY: WORECK, CHRIS PLOT SCALE : 1 IN:50 FT WISDOT/CADDS SHEET 42

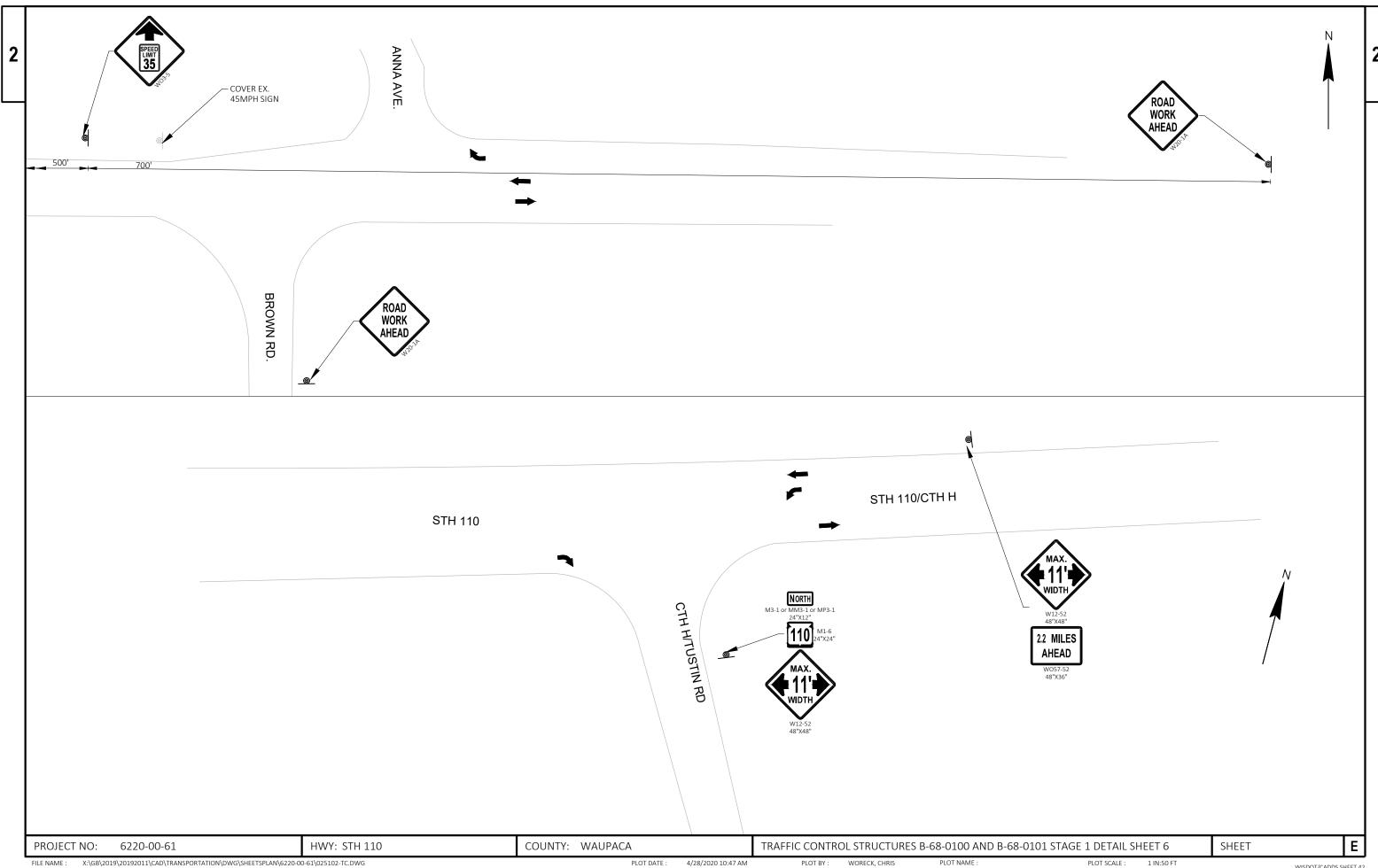


FILE NAME: X:\GB\2019\2019\2011\CAD\TRANSPORTATION\DWG\SHEETSPLAN\\6220-00-61\025102-TC.DWG PLOT DATE: 4/28/2020 10:43 AM PLOT BY: WORECK, CHRIS PLOT NAME: PLOT SCALE: 1 IN:50 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - 025104



FILE NAME: X\GB\2019\2019\2011\CAD\TRANSPORTATION\DWG\SHEETSPLAN\6220-00-61\025102-TC.DWG PLOT DATE: 4/28/2020 10:44 AM PLOT BY: WORECK, CHRIS PLOT NAME: PLOT NAME: 1 in:50 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - 025105

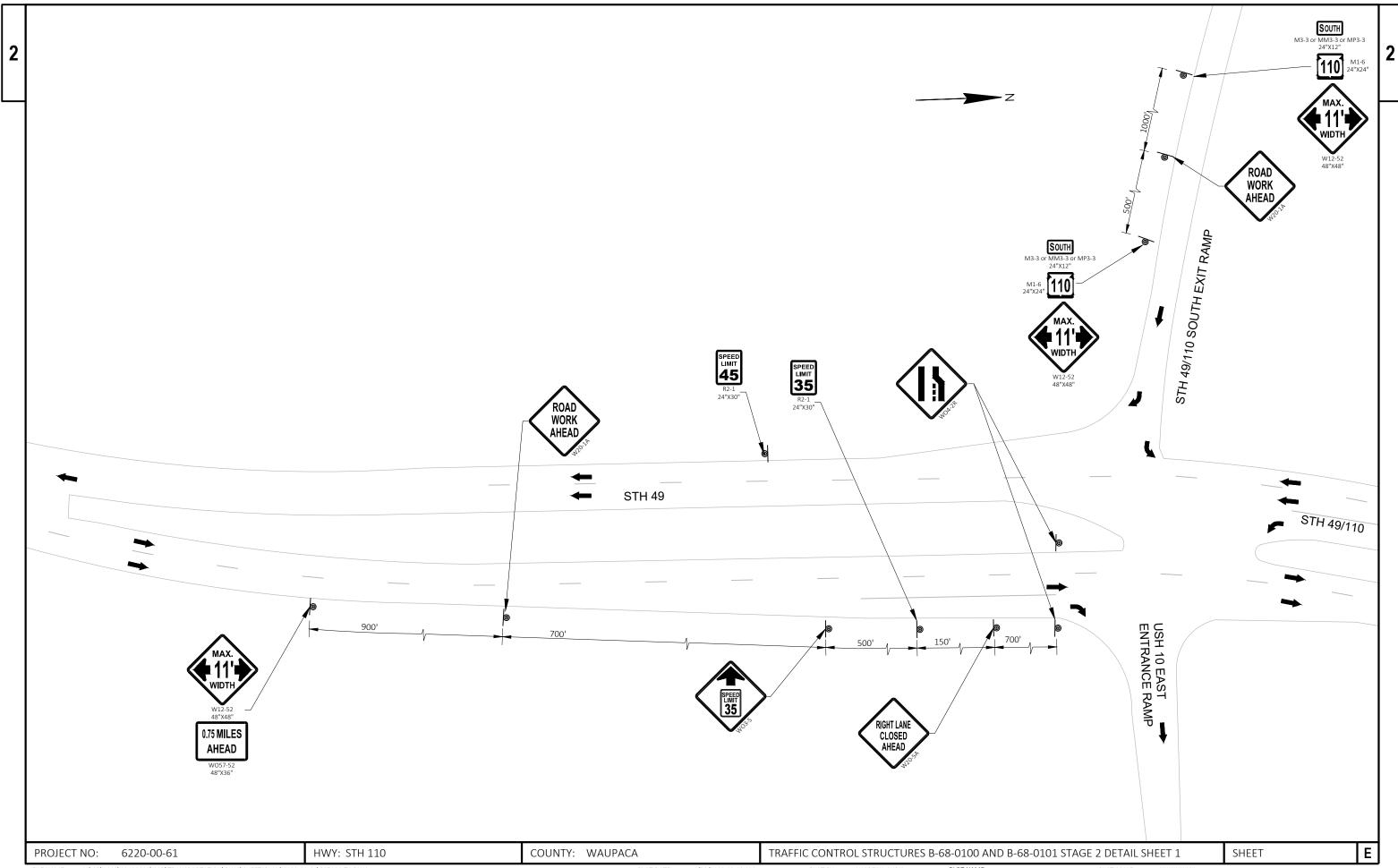


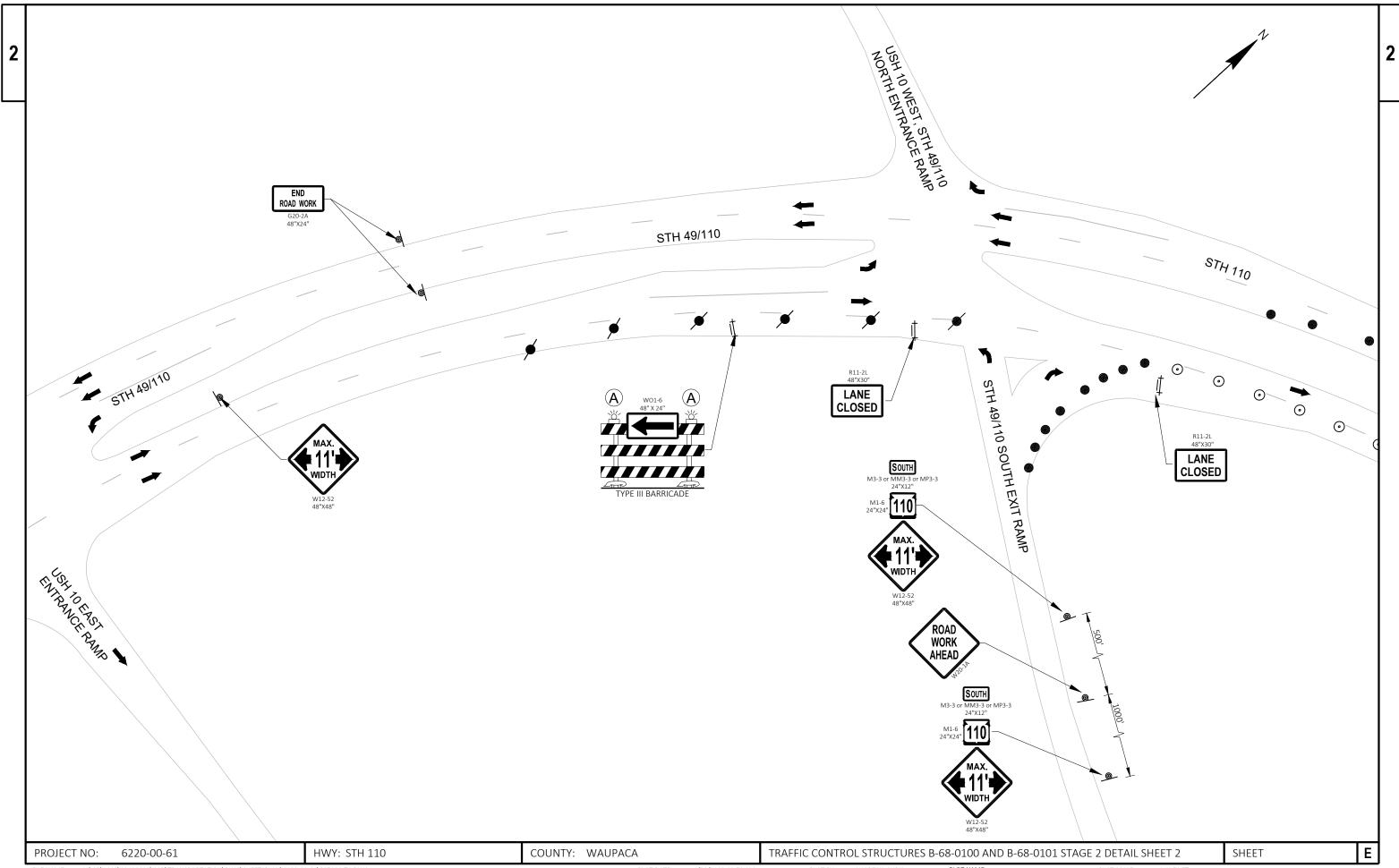


X:\GB\2019\20192011\CAD\TRANSPORTATION\DWG\SHEETSPLAN\6220-00-61\025102-TC.DWG LAYOUT NAME - 025107

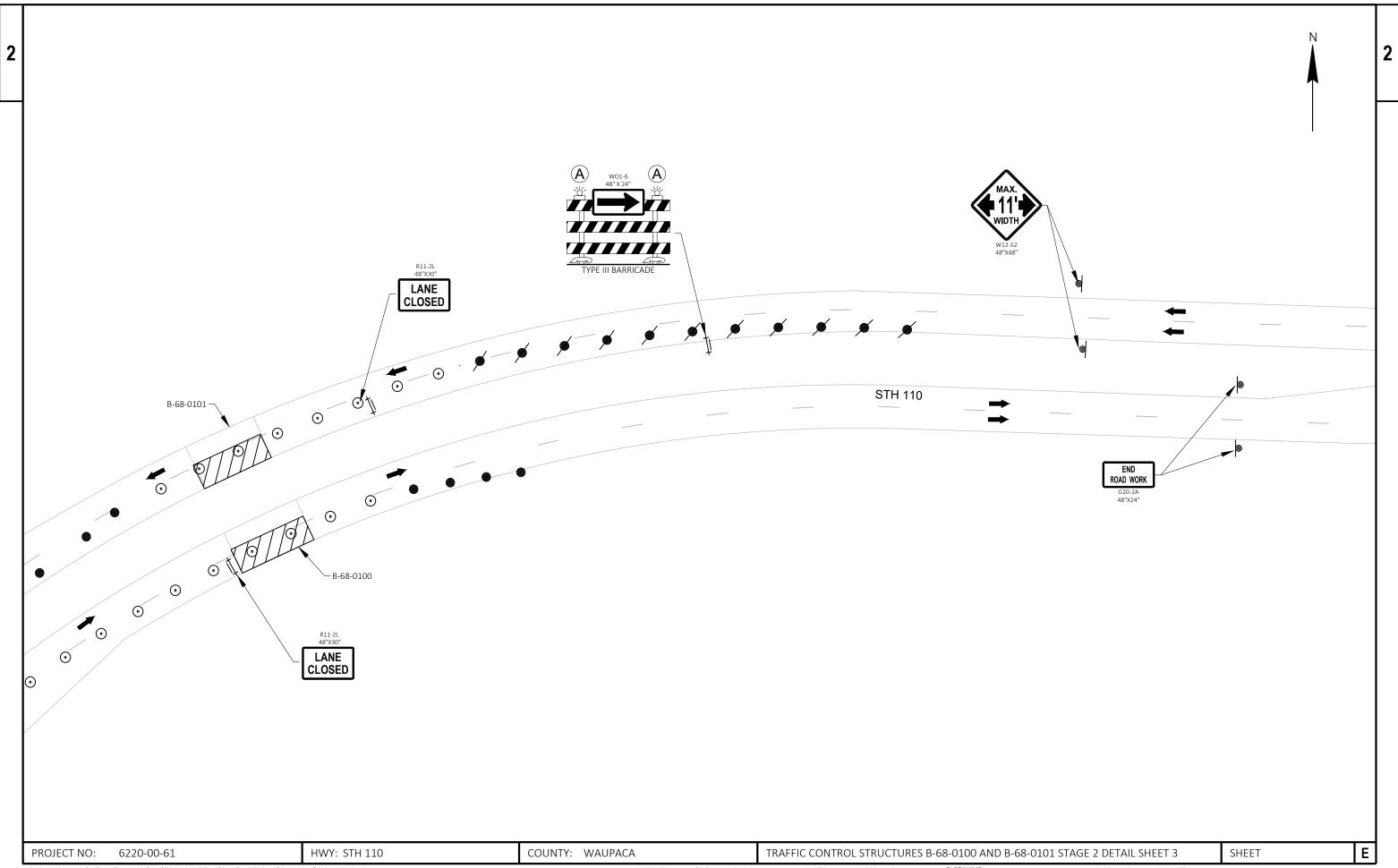
PLOT NAME :

PLOT SCALE : 1 IN:50 FT WISDOT/CADDS SHEET 42

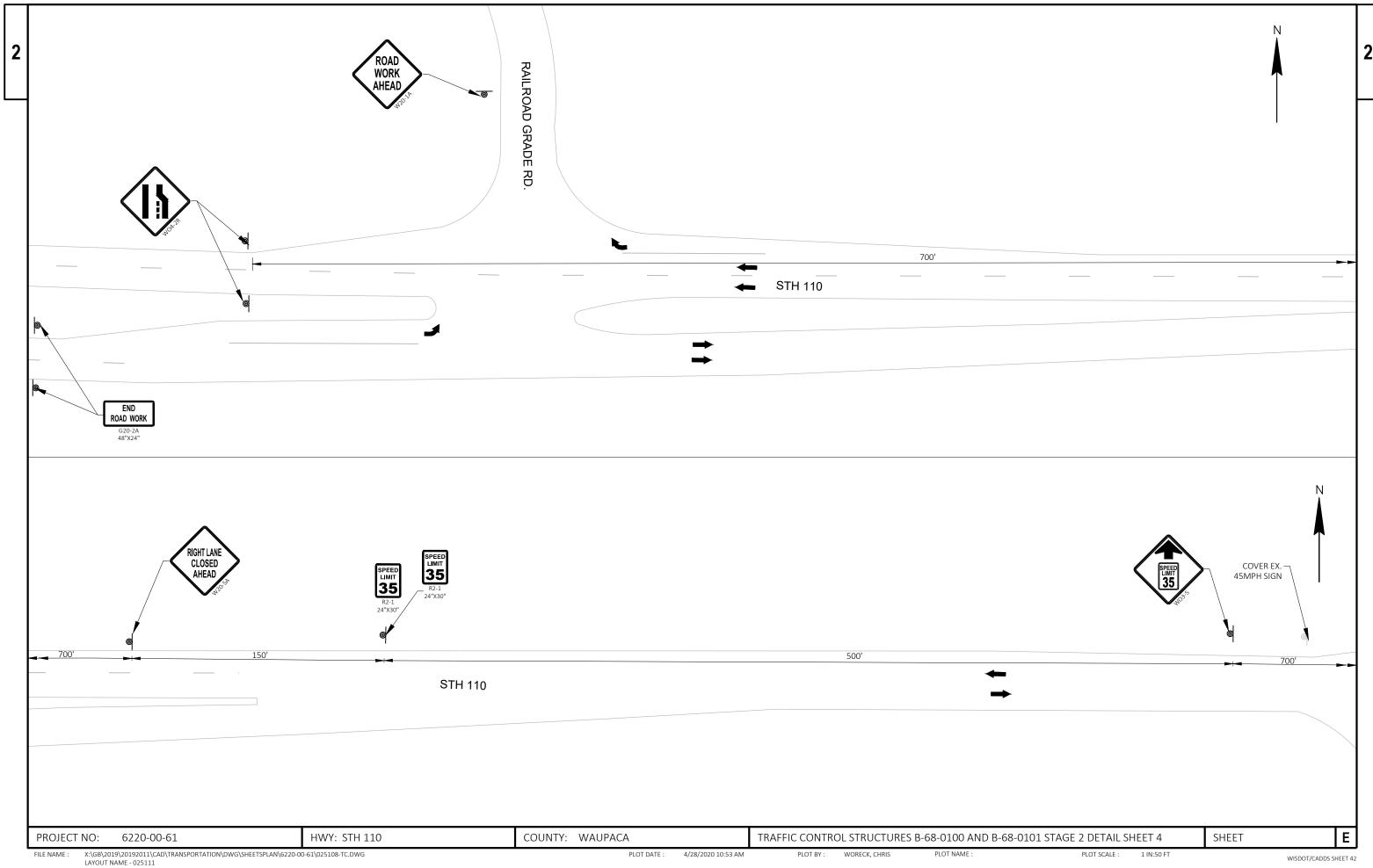




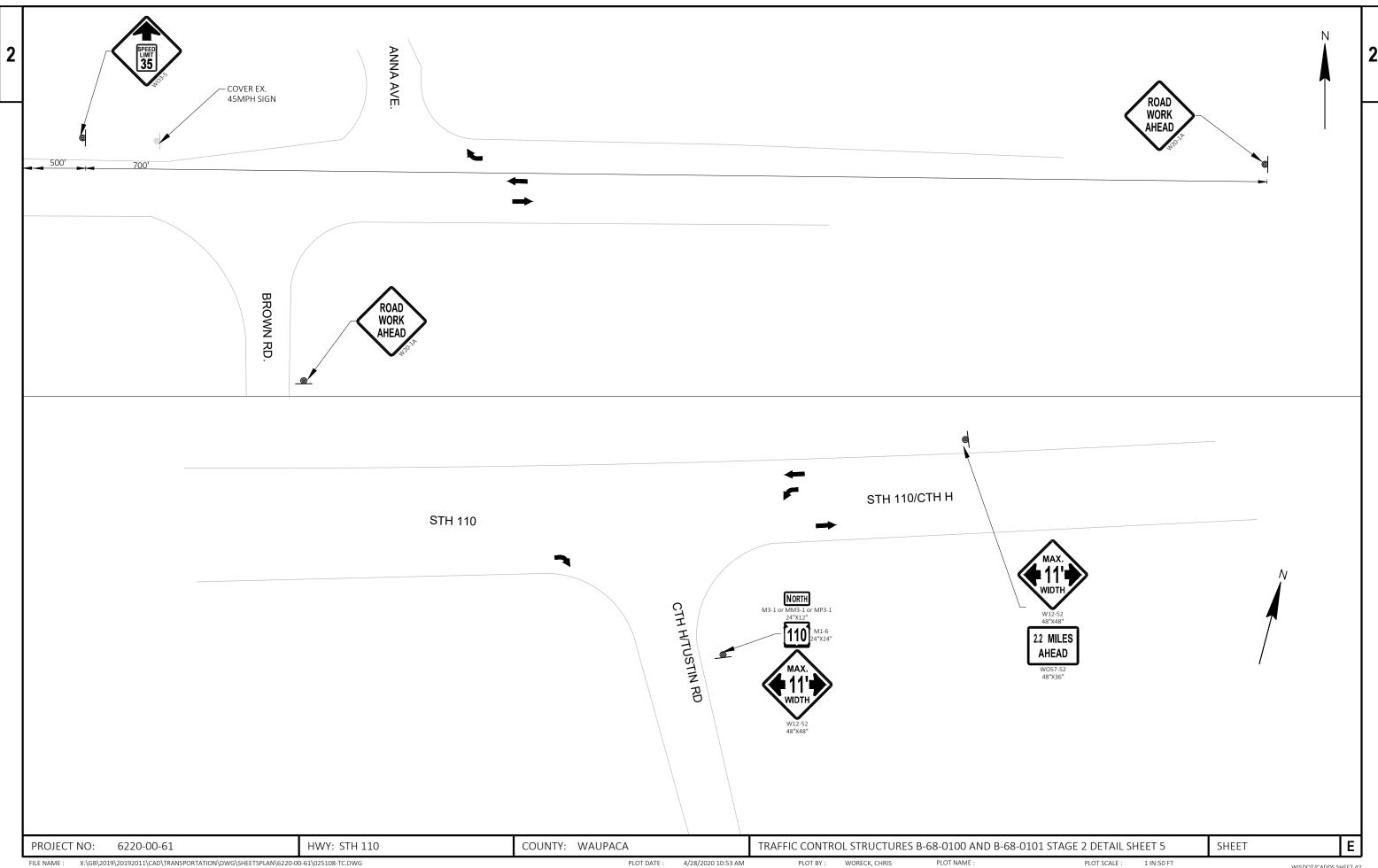
FILE NAME: X:\GB\2019\2019\2011\CAD\TRANSPORTATION\DWG\SHEETSPLAN\\6220-00-61\025108-TC.DWG PLOT DATE: 4/28/2020 10:50 AM PLOT BY: WORECK, CHRIS PLOT NAME: PLOT SCALE: 1 IN:50 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - 025109



FILE NAME: X\S6\S2019\2019\2011\CAD\TRANSPORTATION\DWG\SHEETSPLAN\6220-00-61\025108-TC.DWG PLOT DATE: 4/28/2020 10:51 AM PLOT BY: WORECK, CHRIS PLOT NAME: PLOT NAME: 1 IN:50 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - 025110



WISDOT/CADDS SHEET 42

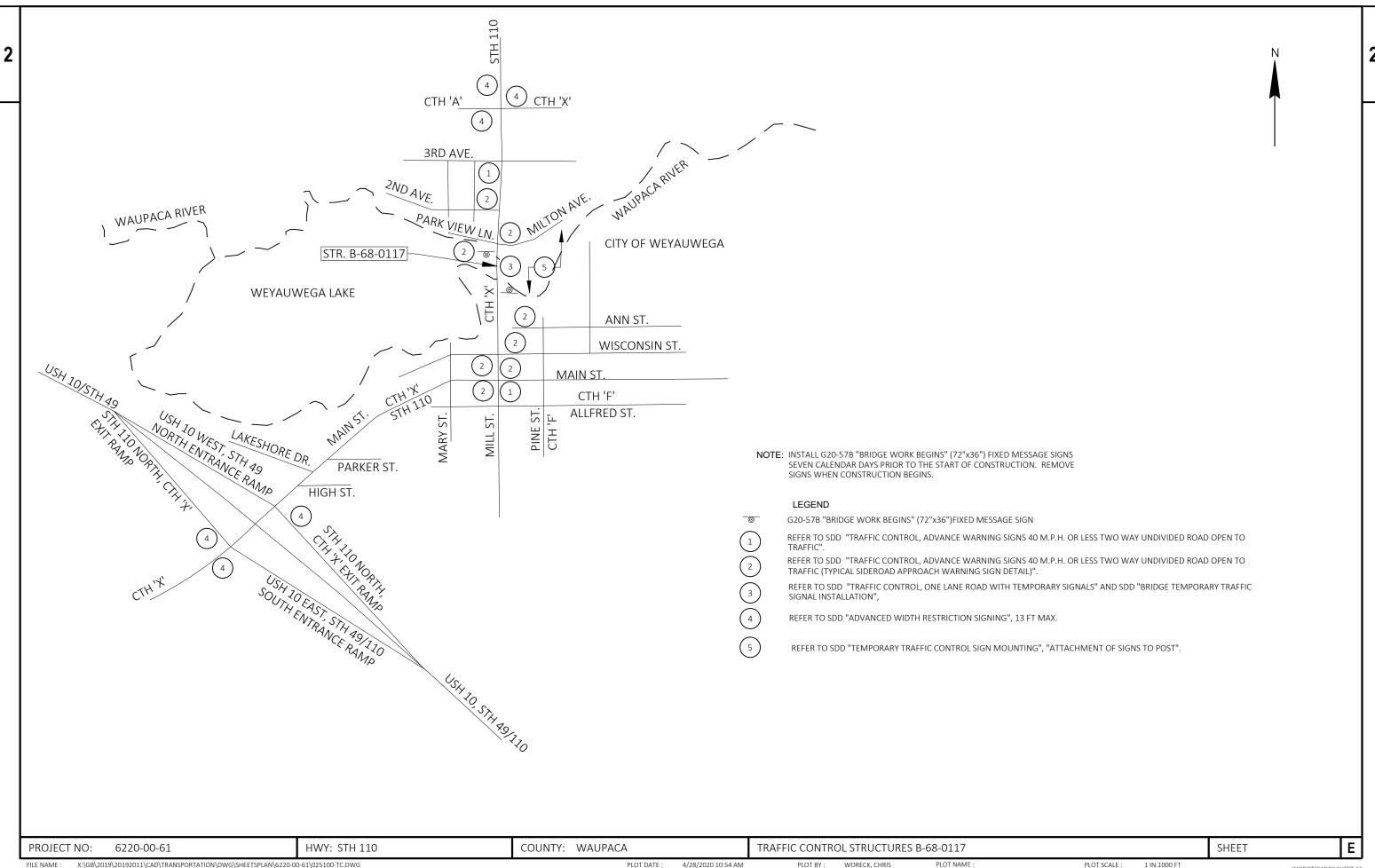


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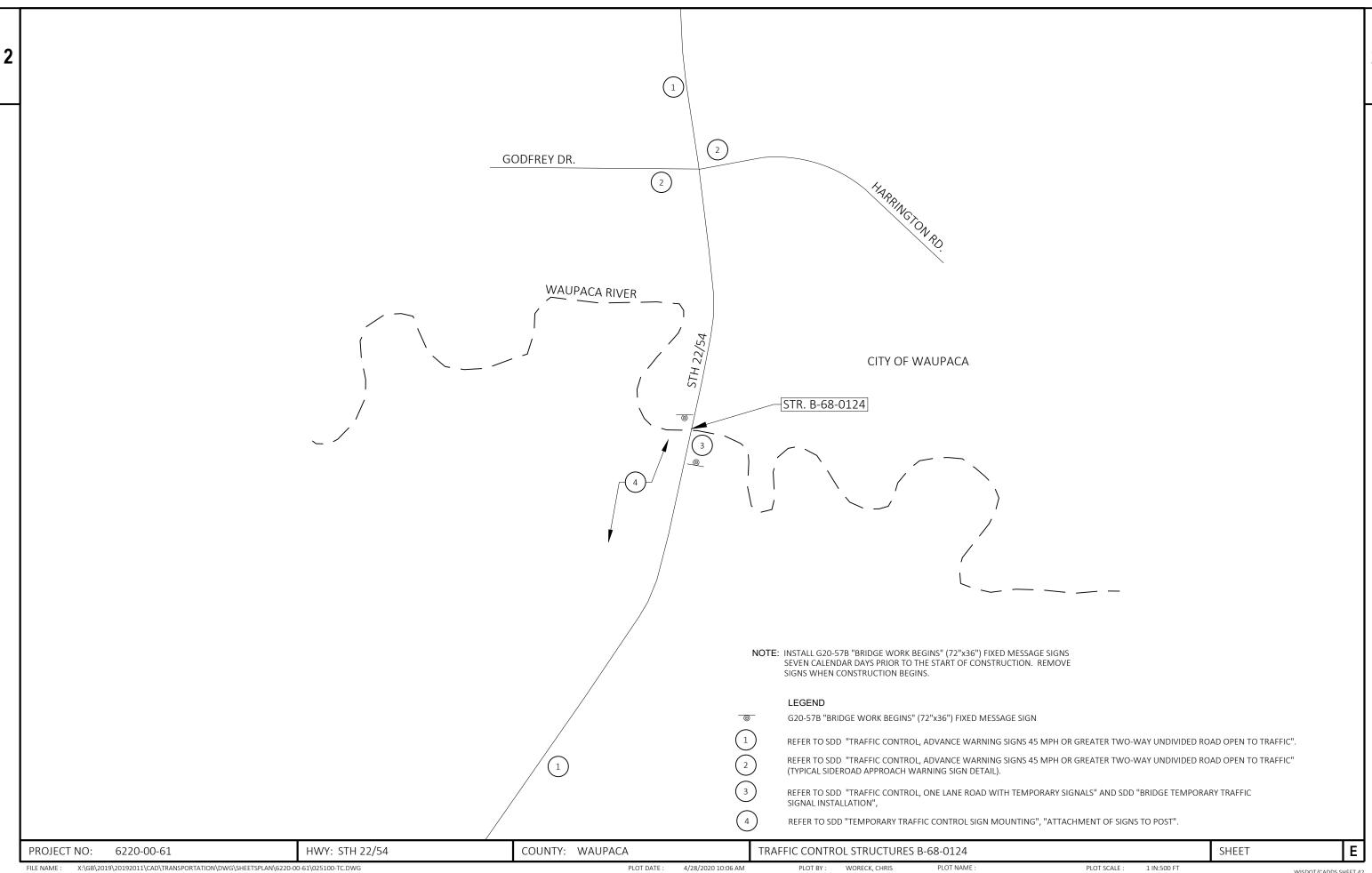
PLOT DATE : 4/28/2020 10:53 AM

PLOT NAME :

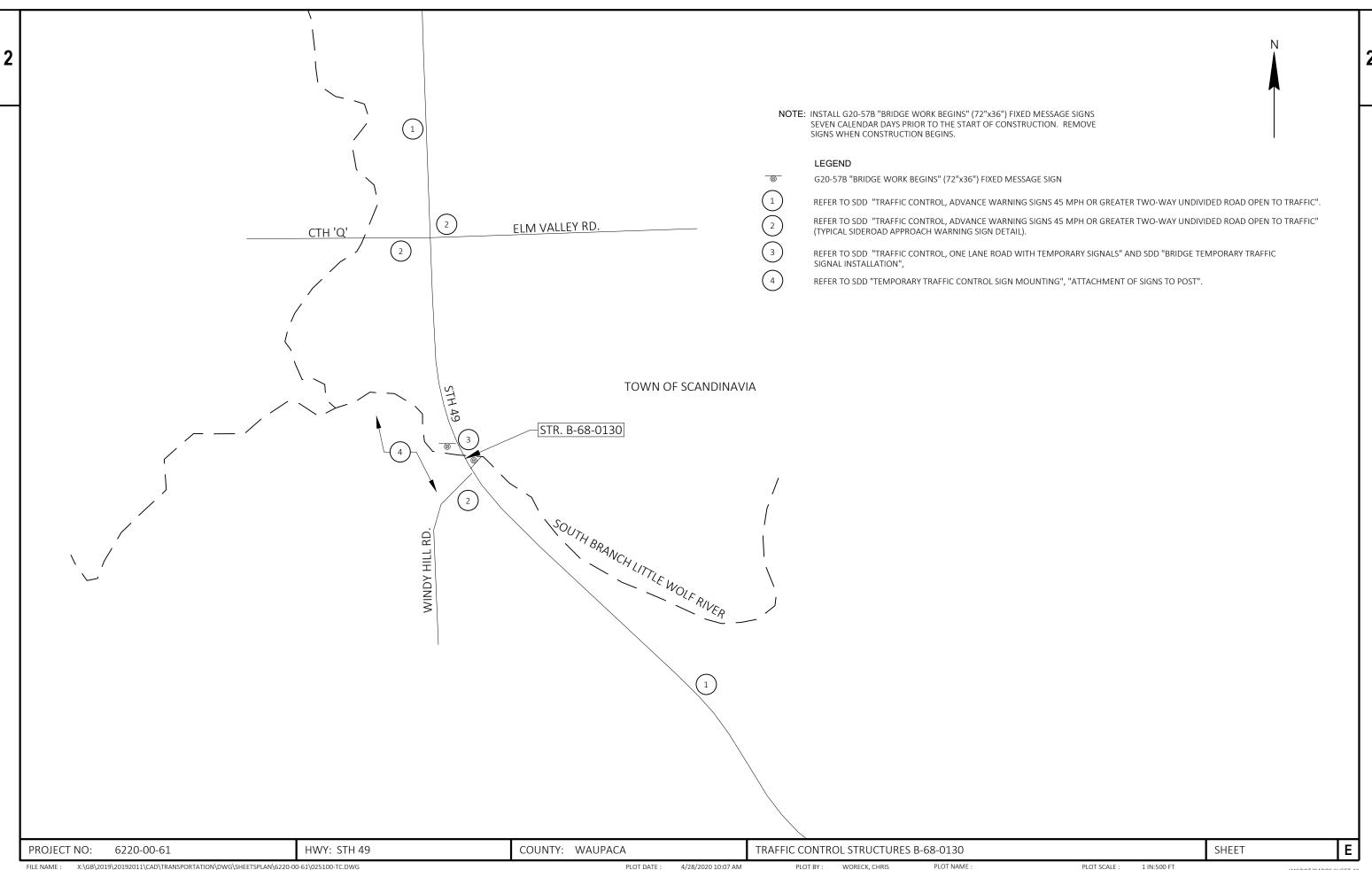
PLOT SCALE :



PLOT NAME : X:\GB\2019\20192011\CAD\TRANSPORTATION\DWG\SHEETSPLAN\6220-00-61\025100-TC.DWG PLOT DATE : WORECK, CHRIS PLOT SCALE : 1 IN:1000 FT 4/28/2020 10:54 AM PLOT BY: WISDOT/CADDS SHEET 42 LAYOUT NAME - 025112



X:\GB\2019\20192011\CAD\TRANSPORTATION\DWG\SHEETSPLAN\6220-00-61\025100-TC.DWG 4/28/2020 10:06 AM 1 IN:500 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - 025113



LAYOUT NAME - 025114

6220-00-31 (B-68-71) STH 54

Waupaca County

Note: Stop bar placement at Construction Year (2018) AADT:

735 ft spacing 6100 vpd

55 mph posted speed limit

6220-00-31 (B-68-117)

STH 110

Waupaca County

Note: Stop bar placement at Construction Year (2018) AADT:

671 ft spacing 5600 vpd

25 mph posted speed limit

Temporary Signal Timing # 1 6:00am to 8:00pm

INTERVAL	EB	WB	SECONDS
1	G	R	31
2	Y	R	5
3	R	R	23
4	R	G	31
5	R	Υ	5
6	R	R	23

Total cycle length

	G	Υ	R
EB (s)	31	5	23
WB (s)	31	5	23
Total (s)	62	10	46

118 s

Temporary Signal Timing # 2 8:00pm to 6:00am

INTERVAL	EB	WB	SECONDS
1	G	R	25
2	Y	R	5
3	R	R	23
4	R	G	25
5	R	Y	5
6	R	R	23

Total cycle length

		G	Υ	R	
	EB (s)	25	5	23	
	WB (s)	25	5	23	
	Total (s)	50	10	46	
=	106 s				

Temporary Signal Timing # 1 6:00am to 8:00pm

INTERVAL	NB	SB	SECONDS
1	G	R	26
2	Υ	R	3
3	R	R	22
4	R	G	26
5	R	Υ	3
6	R	R	22

Total cycle length

	G	Υ	R
NB (s)	26	3	22
SB (s)	26	3	22
Total (s)	52	6	44

102 s

Temporary Signal Timing # 2 8:00pm to 6:00am

		-9	p
INTERVAL	NB	SB	SECONDS
1	G	R	21
2	Υ	R	3
3	R	R	22
4	R	G	21
5	R	Υ	3
6	R	R	22

Total cycle length

		G	Y	R	
	NB (s)	21	3	22	
	SB (s)	21	3	22	
	Total (s)	42	6	44	_
=	92 s				

PROJECT NO: 1430-00-66 & 6220-00-61

HWY: VARIOUS

COUNTY: GREEN LAKE & WAUPACA TRAFFIC CONTROL: TEMPORARY SIGNAL TIMINGS

PLOT DATE : 3/16/2020 9:41 AM

PLOT NAME: 030201_mq

SHEET

WISDOT / CADDS SHEET 42

6220-00-31 (B-68-124) STH 22/54

Waupaca County

Note: Stop bar placement at Construction Year (2018) AADT:

793 _ft spacing 5300 vpd

45 mph posted speed limit

6220-00-31 (B-68-130)

STH 49

Waupaca County

Note: Stop bar placement at Construction Year (2018) AADT:

583 ft spacing 2400 vpd

_55 mph posted speed limit

Temporary Signal Timing # 1 6:00am to 8:00pm

INTERVAL	NB	SB	SECONDS
1	G	R	29
2	Y	R	4.5
3	R	R	25
4	R	G	29
5	R	Υ	4.5
6	R	R	25

Total cycle length

	G	Υ	R
NB (s)	29	4.5	25
SB (s)	29	4.5	25
Total (s)	58	9	50

117 s

Temporary Signal Timing # 2 8:00pm to 6:00am

		•	•
INTERVAL	NB	SB	SECONDS
1	G	R	24
2	Υ	R	4.5
3	R	R	25
4	R	G	24
5	R	Y	4.5
6	R	R	25

Total cycle length

	G	Υ	R	
NB (s)	24	4.5	25	
SB (s)	24	4.5	25	
Total (s)	48	9	50	

107 s

Temporary Signal Timing # 1 6:00am to 8:00pm

INTERVAL	NB	SB	SECONDS
1	G	R	16
2	Y	R	5
3	R	R	20
4	R	G	16
5	R	Υ	5
6	R	R	20

Total cycle length

	G	Υ	R
NB (s)	16	5	20
SB (s)	16	5	20
Total (s)	32	10	40

82 s

Temporary Signal Timing # 2 8:00pm to 6:00am

remporary orginal rinning # 2 0.00pm to									
	INTERVAL	NB	SB	SECONDS					
	1	G	R	13					
	2	Y	R	5					
	3	R	R	20					
	4	R	G	13					
	5	R	Υ	5					
	6	R	R	20					

Total cycle length

	G	Υ	R
NB (s)	13	5	20
SB (s)	13	5	20
Total (s)	26	10	40

76 s

PROJECT NO: 1430-00-66 & 6220-00-61

HWY: VARIOUS

COUNTY: GREEN LAKE & WAUPACA TRAFFIC CONTROL: TEMPORARY SIGNAL TIMINGS

PLOT BY :

SHEET

WISDOT / CADDS SHEET 42

					1430-00-66	6220-00-61
Line	Item	Item Description	Unit	Total	Qty	Qty
0002	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	7.000	7.000	
0004	213.0100	Finishing Roadway (project) 01. 1430-00-66	EACH	1.000	1.000	
0006	213.0100	Finishing Roadway (project) 01. 6220-00-61	EACH	1.000		1.000
8000	465.0105	Asphaltic Surface	TON	100.000	100.000	
0010	509.0301	Preparation Decks Type 1	SY	11.000	1.000	10.000
0012	509.0302	Preparation Decks Type 2	SY	8.000	1.000	7.000
0014	509.0310.S		LF	110.000	10.000	100.000
0016	509.1000	Joint Repair	SY	20.000	20.000	
0018	509.2100.S	·	CY	9.000	3.000	6.000
0020	509.5100.S	• •	SY	6,432.000	2,072.000	4,360.000
0022	603.8000	Concrete Barrier Temporary Precast Delivered	LF	450.000	450.000	
0024	603.8125	Concrete Barrier Temporary Precast Installed	LF	900.000	900.000	
0026	619.1000	Mobilization	EACH	1.000	0.150	0.850
0028	628.7015	Inlet Protection Type C	EACH	8.000	1.000	7.000
0030	642.5001	Field Office Type B	EACH	1.000	1.000	
0032	643.0300	Traffic Control Drums	DAY	12,875.000	9,477.000	3,398.000
0034	643.0420	Traffic Control Barricades Type III	DAY	863.000	603.000	260.000
0036	643.0705	Traffic Control Warning Lights Type A	DAY	632.000	504.000	128.000
0038	643.0715	Traffic Control Warning Lights Type C	DAY	4,943.000	3,699.000	1,244.000
0040	643.0900	Traffic Control Signs	DAY	8,178.000	4,113.000	4,065.000
0042	643.0920	Traffic Control Covering Signs Type II	EACH	8.000	4.000	4.000
0044	643.1000	Traffic Control Signs Fixed Message	SF	216.000	36.000	180.000
0046	643.1070	Traffic Control Cones 42-Inch	DAY	416.000		416.000
0048	643.5000	Traffic Control	EACH	1.000	0.150	0.850
0050	646.1020	Marking Line Epoxy 4-Inch	LF	10,060.000	4,005.000	6,055.000
0052	646.9000	Marking Removal Line 4-Inch	LF	6,905.000	4,005.000	2,900.000
0054	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	14,845.000	9,655.000	5,190.000
0056	649.0850	Temporary Marking Stop Line Removable Tape 18-Inch		192.000	,	192.000
0058	661.0100	Temporary Traffic Signals for Bridges (structure) 01. B-68-0071		1.000		1.000
0060	661.0100	Temporary Traffic Signals for Bridges (structure) 02. B-68-0117	LS	1.000		1.000
0062	661.0100	Temporary Traffic Signals for Bridges (structure) 03. B-68-0124	LS	1.000		1.000
0064	661.0100	Temporary Traffic Signals for Bridges (structure) 04. B-68-0130	LS	1.000		1.000
0066	SPV.0090	Special 01. Silicone Bridge Joint Sealant	LF	80.000	80.000	
0068	SPV.0105	Special 01. Shuttle Service	LS	1.000	30.000	1.000
	2			1.000		1.000

HEET ARE CATEGORY 0010 NLESS OTHERWISE NOTED.	PREPAR	RE FOUNDATION FOR AS	PHALTIC SH	IOULDER	ıs.									АЅРНА	LTIC SURFAC	Ε		
	PP0 154			11.0400)								PROJECT 430-00-6		OCATION OOO9 (WEST)	4	65.0105 (TON) 26	_
	PROJE0 1430-00			(STA) 2											0009 (EAST)		74	
	1400-00	B-24-0009 (EA	•	5										PROJ	ECT TOTAL		100	_
		PROJECT TOTA	L	7														
														EROSION C	ONTROL ITEM	IS		
																	628.701	5
	00110	DETE DADDIED TEMPOD	ARV PREGAC	\ -													INLET PROTECTI	ON
	CONC	CRETE BARRIER TEMPORA	ARY PRECAS) I													TYPE C	
			603.8000		.8125							P	ROJECT		LOCATION		(EACH)	
PROJ	ECT	LOCATION	DELIVERED (LF)		TALLED LF)							622	20-00-61		B-68-0071		1	
1430-0		-24-0009 STAGE 1	450		450										B-60-0100 B-68-0101			
		-24-0009 STAGE 2			450										B-68-0117		2	
		PROJECT TOTAL	450	9	900										B-68-0124		2	
											_	446			B-68-0130		2	
											_	143	80-00-66		B-24-0009 ECT 6220-00	61	1 	
															ECT 6220-00 ECT 1430-00		1	
											_				NTRACT TOTA		8	
						TI	RAFFIC CO	ONTROL	SUMMARY	1								
				643	.0300		.0420	WAR	0705 NING	WAF	.0715 RNING	643	. 0900	643.0920* COVERING	SIGNS		. 1070	
			DAVO TH	D.F	NIMO		ICADES		HTS		GHTS		ONO	SIGNS	FIXED		NES	
p	ROJECT	LOCATION	DAYS IN Phase	(NO.)	RUMS (Days)		E III (DAYS)		PE A (DAYS)		PE C (Days)		GNS (DAYS)	TYPE II (EACH)	MESSAGE (SF)		INCH (DAYS)	
	20-00-61	B-68-0071	17	23	391	1	17			10	170	20	340	(LAOII)	36			
		B-68-0100 STAGE 1	16	44	704	4	64	2	32	9	144	29	464	1	18	10	160	
		B-68-0100 STAGE 2	16	17	272	4	64	2	32	5	80	29	464	1		6	96	
		B-68-0101 STAGE 1	16	9	144	2	32	2	32	5	80	20	320	1	18	5	80	
		B-68-0101 STAGE 2	16	9	144	2	32	2	32	5 10	80	20	320	1	26	5	80	
		B-68-0117 B-68-0124	33 18	25 28	825 504	1	33 18			10 10	330 180	43 20	1,419 360		36 36			
		B-68-0130	18	23	414	1				10	180	21	378		36			
143	30-00-66		45	117	5,265	5	225	4	180	33	1,485	53	2,385	2	36			
143	30-00-66	B-24-0009 STAGE 2	54	78	4,212	7	378	6	324	41	2,214		1,728	2				
		PROJECT 6220-00-61		178	3,398	16	260	8	128	64	1,244	202	4,065	4	180	26	416	
		PROJECT 1430-00-66		195	9,477	12	603	10	504	74	3,699	85	4,113	4	36			
		CONTRACT TOTALS	}	373	12,875	28	863	18	632	138	4,943	287	8,178	8	216	26	416	

NOTE: ALL ITEMS ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.

PAVEMENT MARKING

			646.1020 Marking Line Epoxy 4-inch				9.015 RY MARKING OVABLE TAPE INCH	649.0850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH	646.9000 Marking Removal Line 4-inch
		YELLOW		WHITE	WHITE	YELLOW	WHITE	WHITE	
		SOLID	SKIP/DASH 12.5X37.5	SOLID	SKIP/DASH 12.5X37.5	SOLID	SOLID	SOLID	
PROJECT	LOCATION	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)	(LF)
6220-00-61	B-68-0071	930	87.5	474		700	880	48	650
	B-60-0100			44	12.5				
	B-68-0101			44	12.5				
	B-68-0117	942	50	342		700	748	48	650
	B-68-0124	1,388		586			992	48	800
	B-68-0130	964	12.5	166		700	470	48	800
1430-00-66	B-24-0009	1,630	465	1,910		4,175	5,480		4,005
	PROJECT 6220-00-61	4,224	150	1,656	25	2,100	3,090	192	2,900
_	PROJECT 1430-00-66	1,630	465	1,910		4,175	5,480		4,005
	CONTRACT TOTALS	5,854	615	3,566	25	6,275	8,570	192	6,905
			10,	060		14	1,845		

TEMPORARY TRAFFIC SIGNAL FOR BRIDGES

		661.0100
PROJECT	LOCATION	(LS)
6220-00-61	B-68-0071	1
	B-60-0100	
	B-68-0101	
	B-68-0117	1
	B-68-0124	1
	B-68-0130	1
1430-00-66	B-24-0009	
_	PROJECT 6220-00-61	4
_	PROJECT 1430-00-66	
-	CONTRACT TOTAL	Δ

PROJECT NO: 1430-00-66 & 6220-00-61 HWY: VARIOUS COUNTY: GREEN LAKE & WAUPACA MISCELLANEOUS QUANTITIES SHEET

Standard Detail Drawing List

08E10-02 09G02-05A 09G02-05B 09G02-05C 14B07-15A 14B07-15C 14B07-15C 14B07-15D 14B07-15E 14B07-15F 14B07-15H 14B07-15H	INLET PROTECTION TYPE A, B, C AND D BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION BRIDGE TEMPORARY TRAFFIC SIGNAL INSTALLATION CONCRETE BARRIER TEMPORARY PRECAST, 12' -6"
15C02-08F 15C04-05	ADVANCED WIDTH RESTRICTION SIGNING TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15005-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C08-20A 15C11-07B	LONGITUDINAL MARKING (MAINLINE) CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15D20-04	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D21-06A	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D21-06B	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D28-03 15D33-06	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY TRAFFIC CONTROL, ONE LANE ROAD WITH TEMPORARY SIGNALS
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS





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

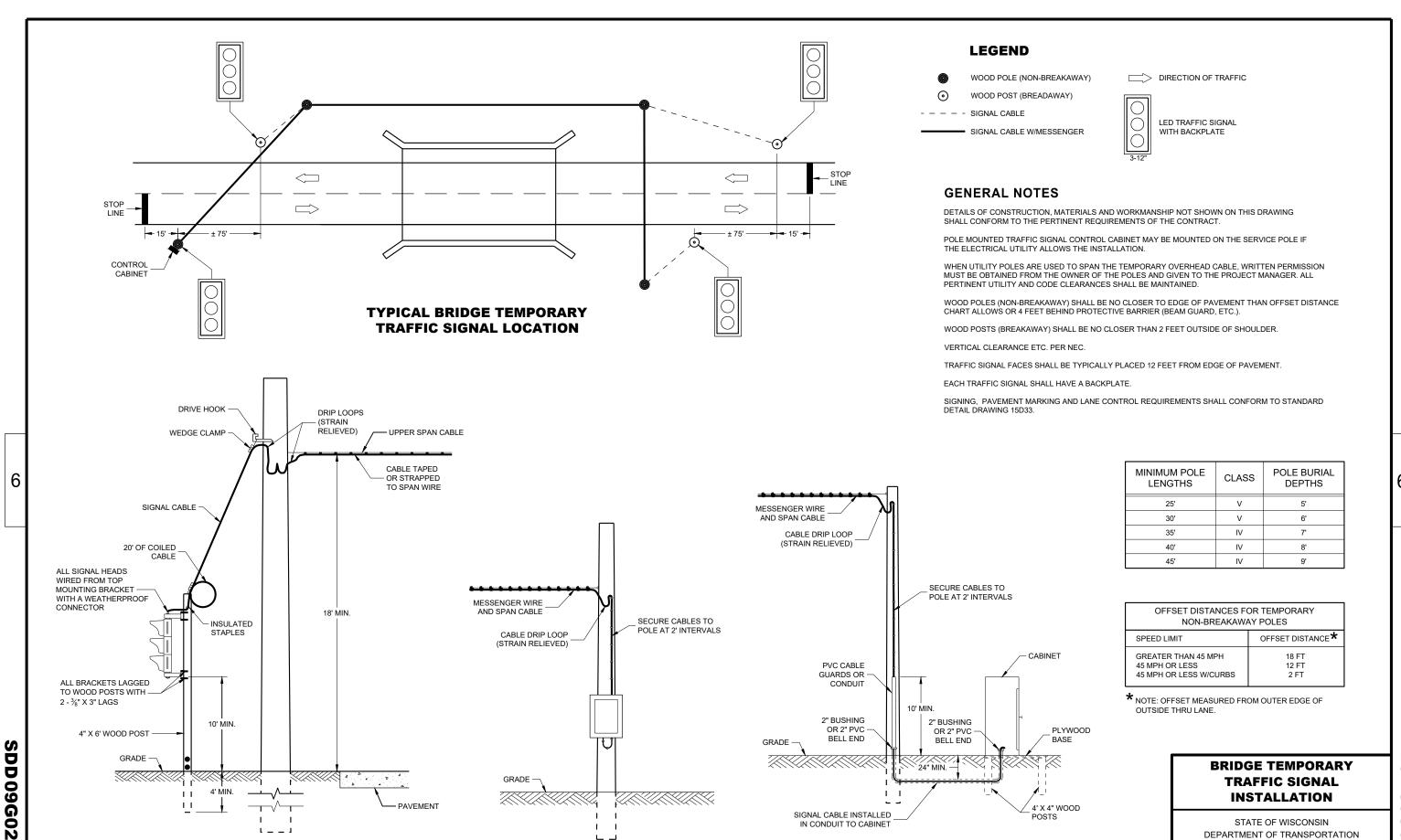
10/16/02

/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

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POLE MOUNT

CABINET INSTALLATION

GRADE

- PAVEMENT

24" MIN.

GROUND MOUNT

CABINET INSTALLATION

SIGNAL CABLE INSTALLED IN CONDUIT TO CABINET

4' X 4" WOOD

GRADE

Ü

4' MIN.

TYPICAL DROP TO

TRAFFIC SIGNAL FACE

BRIDGE TEMPORARY TRAFFIC SIGNAL **INSTALLATION** DEPARTMENT OF TRANSPORTATION

STATE OF WISCONSIN

ROADWAY STANDARDS DEVELOPMENT ENGINEER

APPROVED

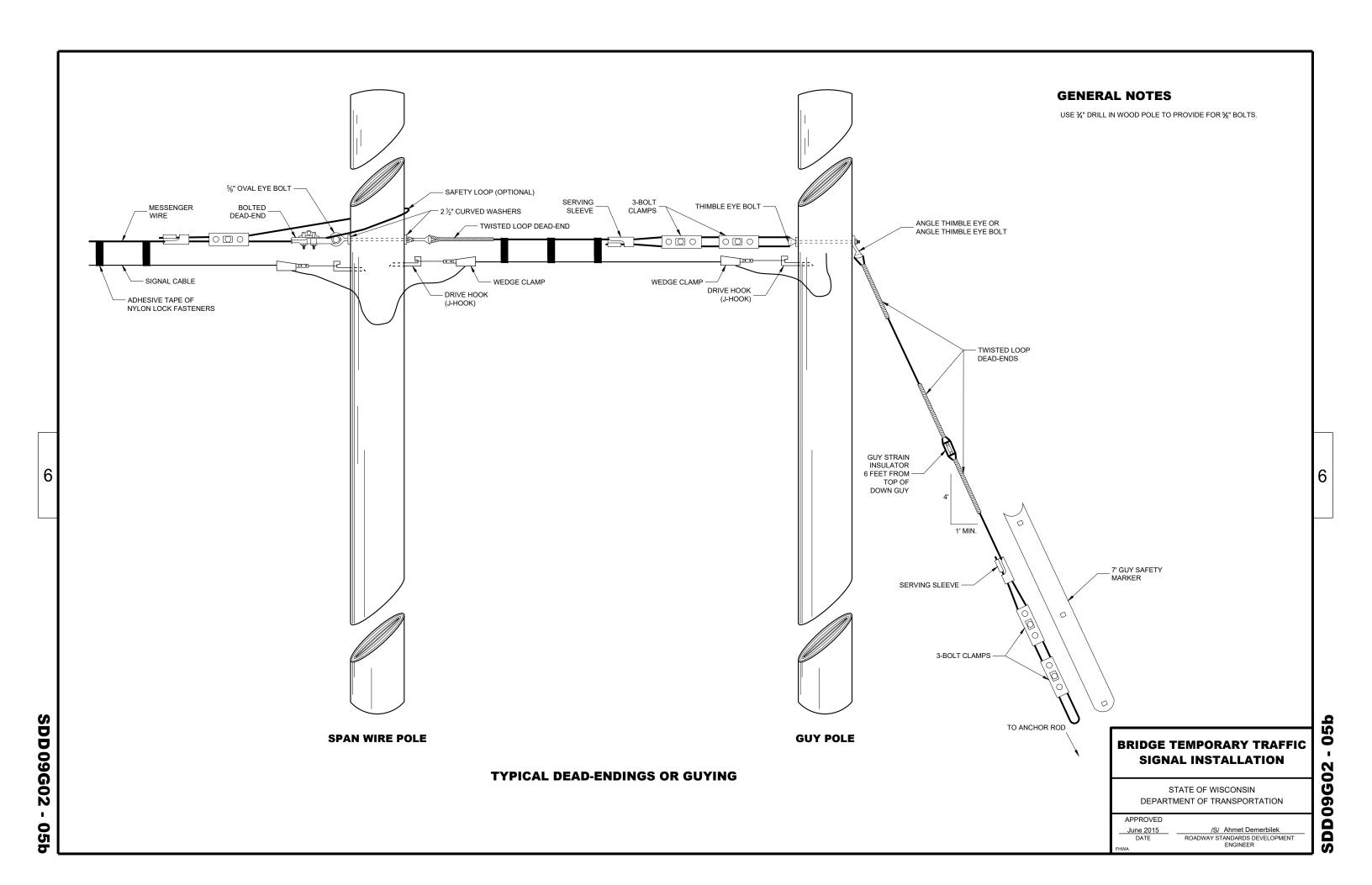
March 2018

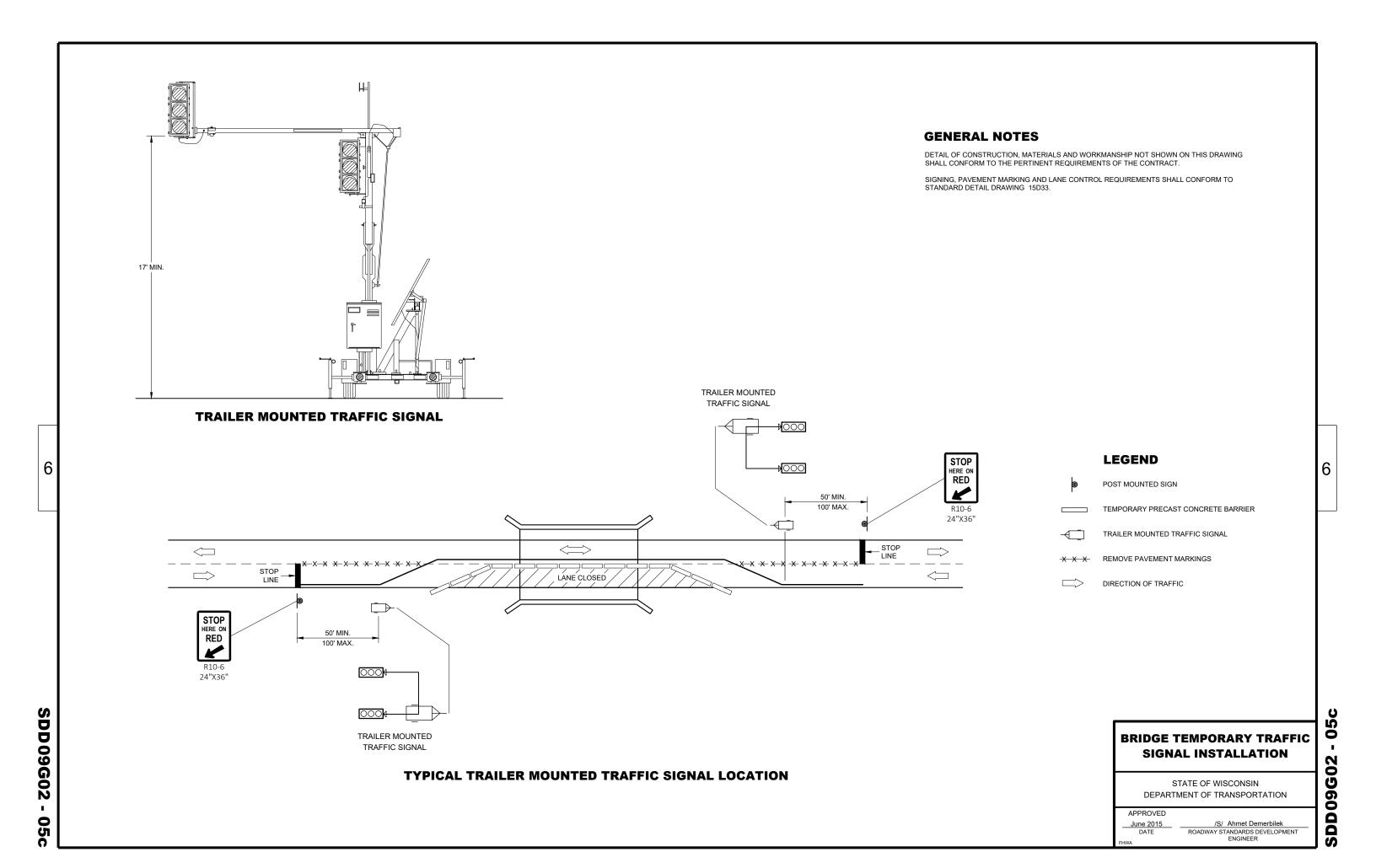
DATE

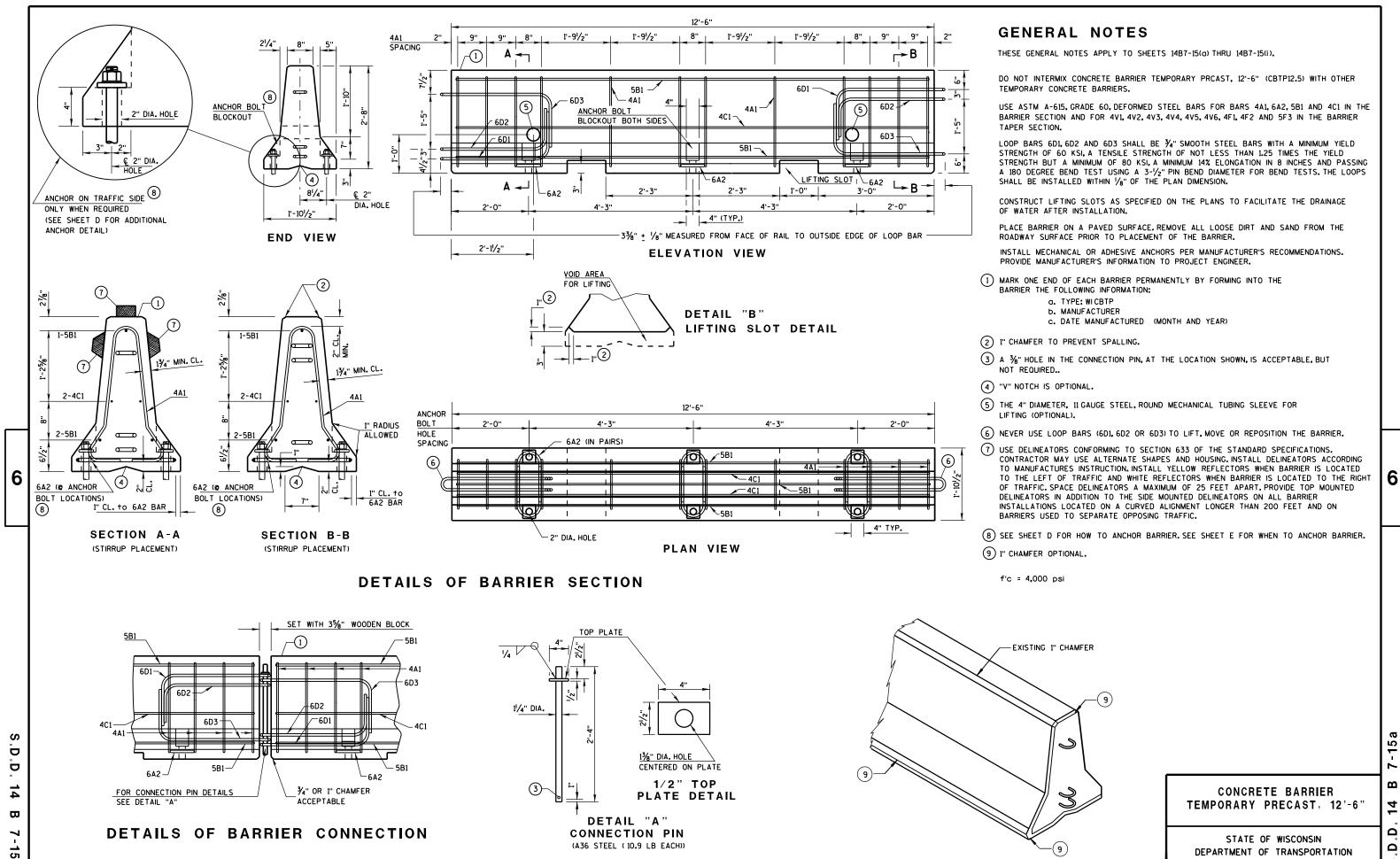
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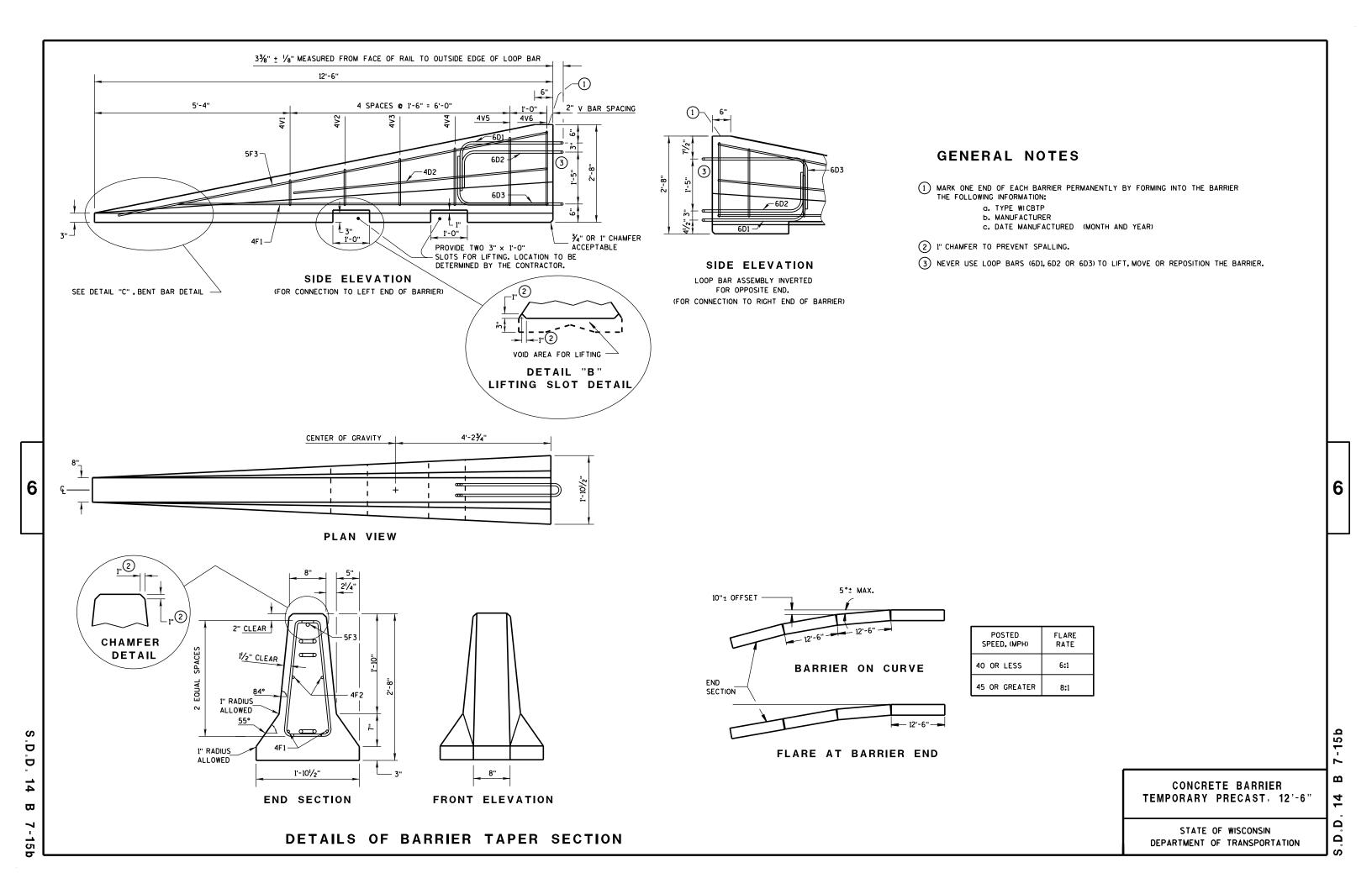






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DEPARTMENT OF TRANSPORTATION

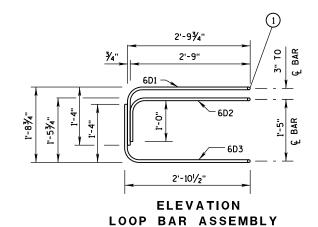


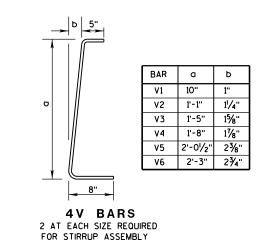
1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

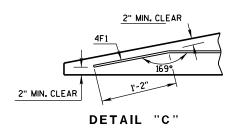
BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

TEN IE O BANNEN TAI EN SECTION						
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.			
4V1	4	2	1'-11"			
4V2	4	2	2'-2"			
4٧3	4	2	2'-6"			
4V4	4	2	2'-9"			
4V5	4	2	3'-2"			
4V6	4	2	3'-4"			
4F1	4	2	12'-0"			
4F2	4	2	7'-6"			
5F3	5	1	11'-9"			
LOOP ASSEMBLY						
6D1	6	1	8'-5"			
6D2	6	1	7'-7"			
6D3	6	1	8'-6"			





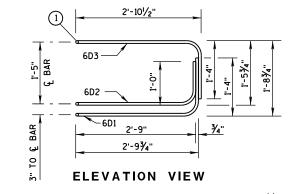


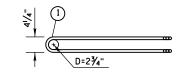
BENT BAR DETAIL

TAPER BARRIER SECTION



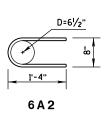
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.			
4A1	4	12	6'-0"			
6A2	5A2 6		2'-11"			
5B1	5	3	12'-2"			
4C1	4	2	12'-2"			
LOOP ASSEMBLY						
6D1	6	2	8'-5"			
6D2	6	2	7'-7"			
6D3	6	2	8'-6"			

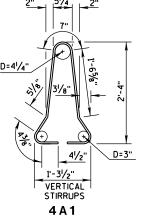




PLAN VIEW LOOP BAR ASSEMBLY

(MARKED END SHOWN, INVERT FOR OTHER END)





BARRIER SECTION

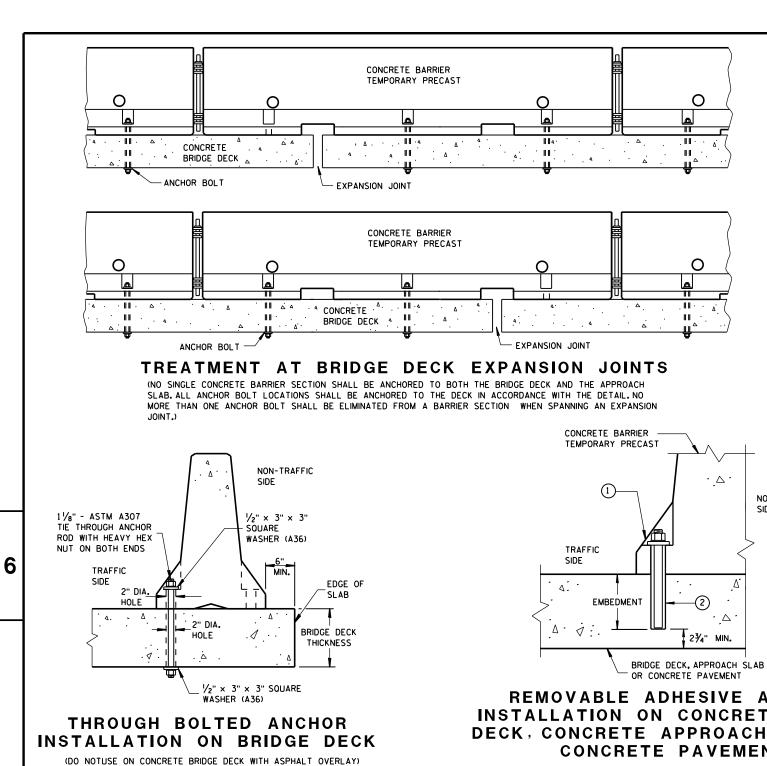
CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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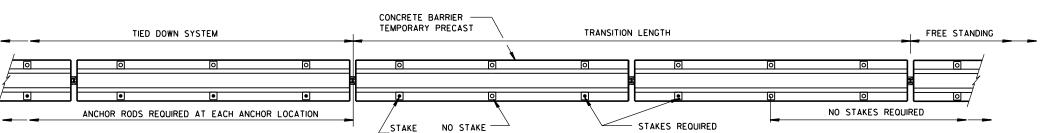
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REMOVABLE ADHESIVE ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR **CONCRETE PAVEMENT**

NON-TRAFFIC

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)



DIRECTION OF TRAFFIC

PLAN VIEW

REQUIRED

FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

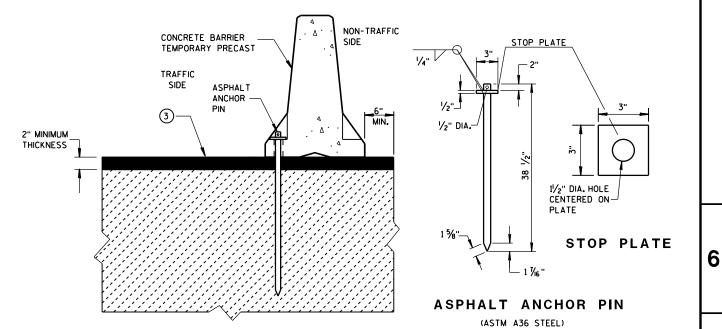
(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN,)

GENERAL NOTES

SEE SHEET E FOR WHEN TO ANCHOR. OTHER PARTS OF THE PLAN MAY SHOW ADDITIONAL LOCATIONS REQUIRING ANCHORING.

REMOVE ALL ANCHORS WHEN NO LONGER NEEDED. FILL CONCRETE PAVEMENTS, DECKS AND APPROACH SLABS WITH NON-SHRINK COMMERICAL GROUT FROM THE APPROVED PRODUCT LIST. FILL ASPHALT PAVEMENTS WITH ASTM D6690 TYPE II RUBBERIZED CRACK FILLER.

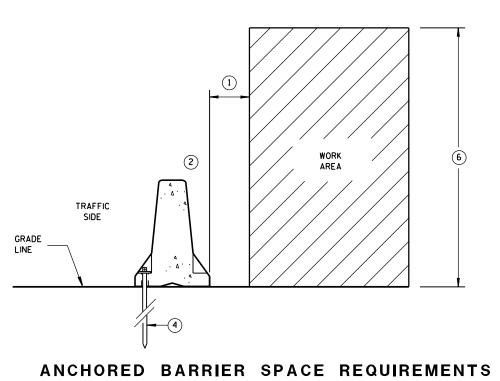
- 1 1/8" DIAMENTER A307 THREADED ROD, 1/2" X 3" X 3" SOUARE PLATE WASHER WITH ASTM A36 STEEL, ASTM A563A HEAVY HEX NUT.
- 2 ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 51/4" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.
- (3) ASPHALT SURFACE SHOWN. CONTRACTOR MAY DRILL THROUGH CONCRETE PAVEMENT AND THAN DRIVE ASPHALT ANCHOR PIN.



STAKE DOWN INSTALLATION FOR **ASPHALTIC SURFACE**

> **CONCRETE BARRIER** TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION -15d $\mathbf{\omega}$ Ω



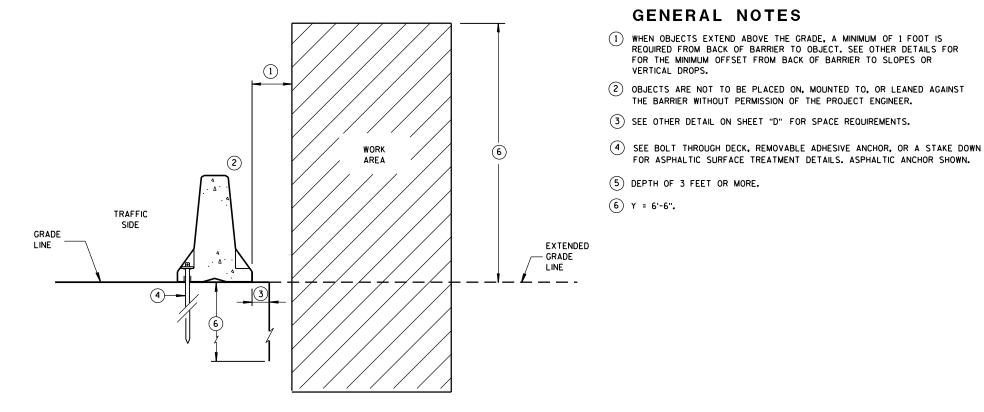
FOR HAZARDS EXTENDED ABOVE THE GRADE LINE

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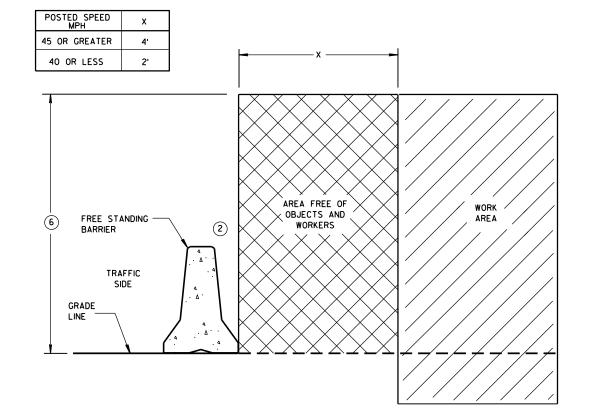
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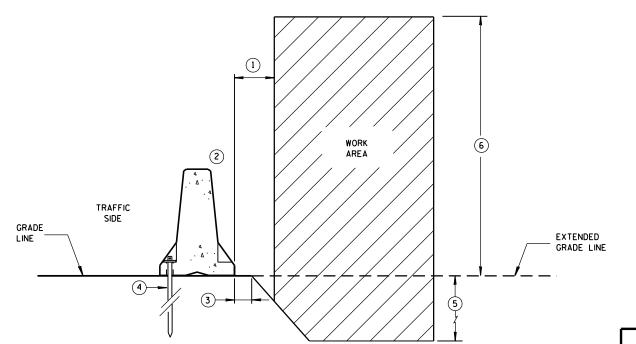
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ANCHORED BARRIER SPACE REQUIREMENTS ON VERTICAL DROP OFFS



FREE STANDING BARRIER SPACE REQUIREMENTS



ANCHORED BARRIER SPACE REQUIREMENTS ON SLOPES

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

GENERAL NOTES

FOR THE MINIMUM OFFSET FROM BACK OF BARRIER TO SLOPES OR

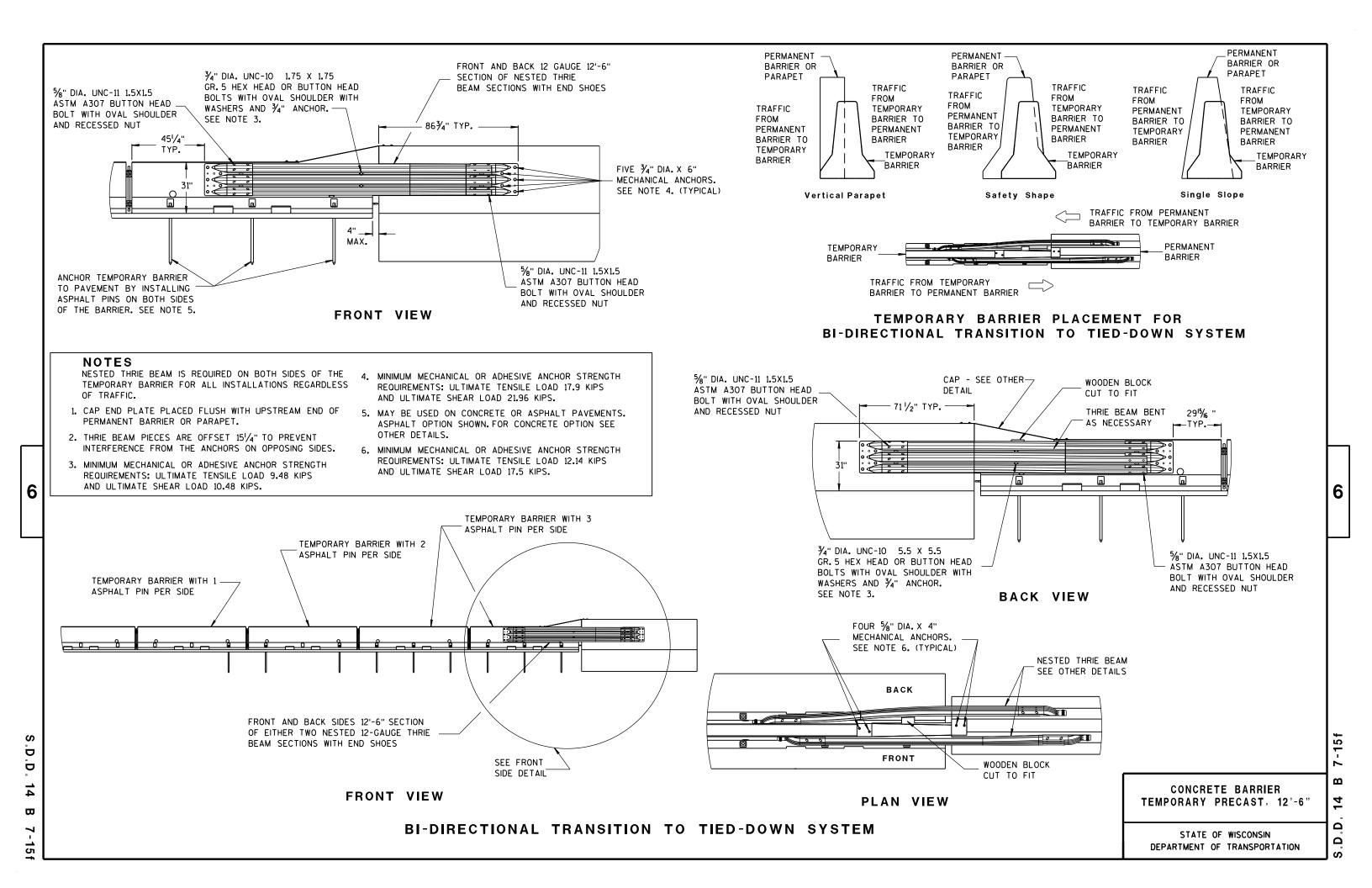
FOR ASPHALTIC SURFACE TREATMENT DETAILS. ASPHALTIC ANCHOR SHOWN.

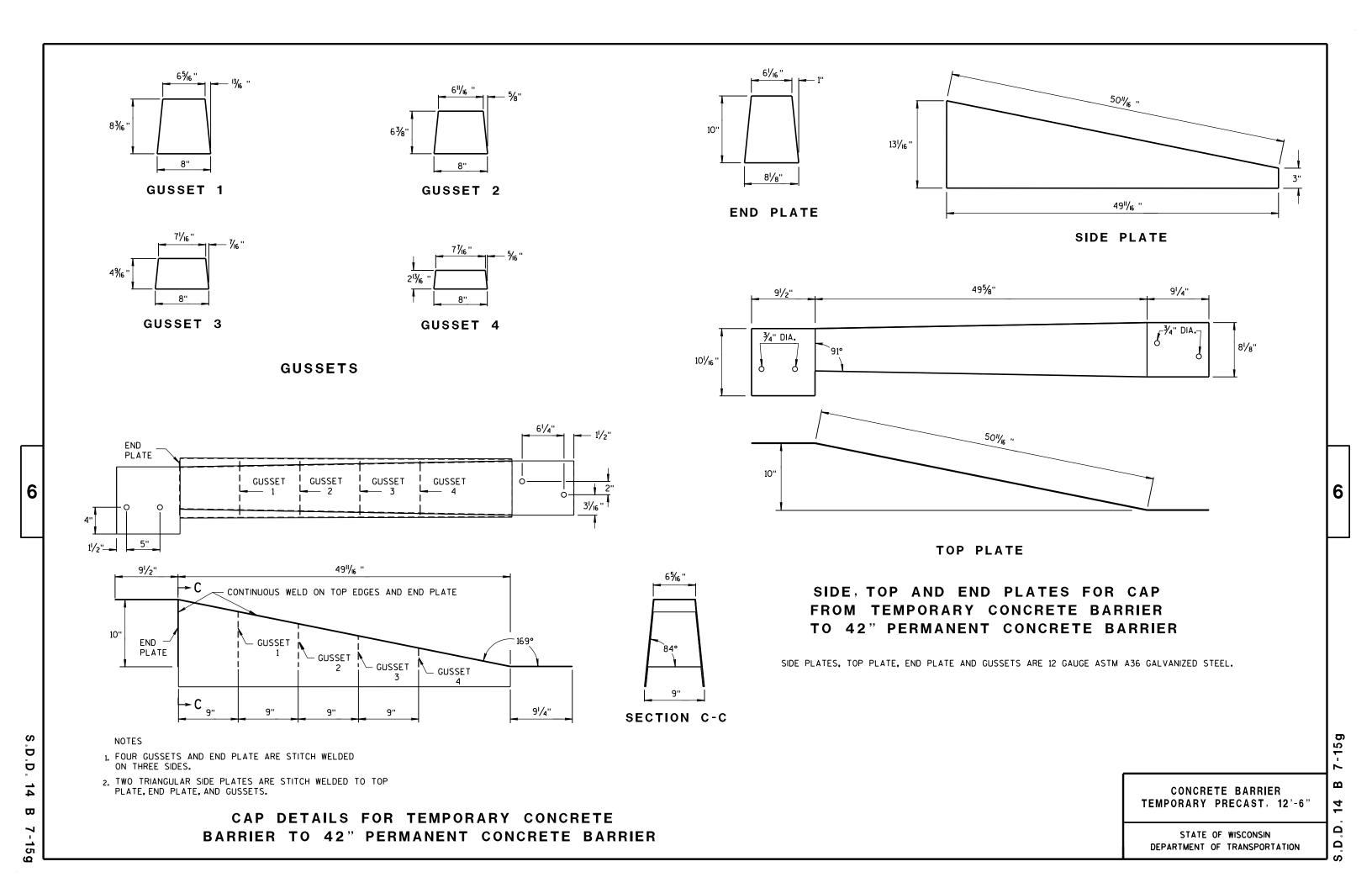
THE BARRIER WITHOUT PERMISSION OF THE PROJECT ENGINEER.

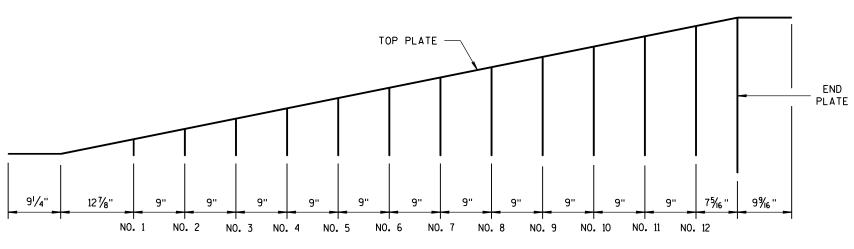
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

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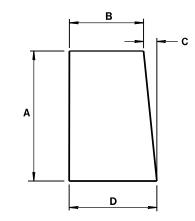




GUSSET LOCATION

CAP DETAILS FOR TEMPORARY CONCRETE

BARRIER TO 56" PERMANENT CONCRETE BARRIER



GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS						
GUSSET No.	A	В	С	D		
1	21/8"	73/4"	1/4"	8		
2	4"/16 "	7% "	1/2"	8		
3	61/2"	73/8"	11/16 "	81/16"		
4	85/6"	73//6"	7∕8"	81/16 "		
5	101/8"	7''	1 ½ ₆ "	81/16"		
6	11 ¹⁵ / ₁₆ ''	6 ¹³ // ₆ "	1 1/4"	81/16"		
7	13¾"	65%"	1 1/6"	81/16"		
8	15% "	6¾6"	1 % "	81/16"		
9	173/8"	6 ¹ /4"	1 ¹³ / ₁₆ "	8½ ₆ "		
10	193/6"	6½ ₆ "	1 15/16 "	81/16"		
11	21"	5 1/8"	23/6"	81/16"		
12	22 ¹³ / ₁₆ "	5 ¹¹ / ₁₆ "	2% "	8½ ₆ "		

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.

> CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

DEPARTMENT OF TRANSPORTATION

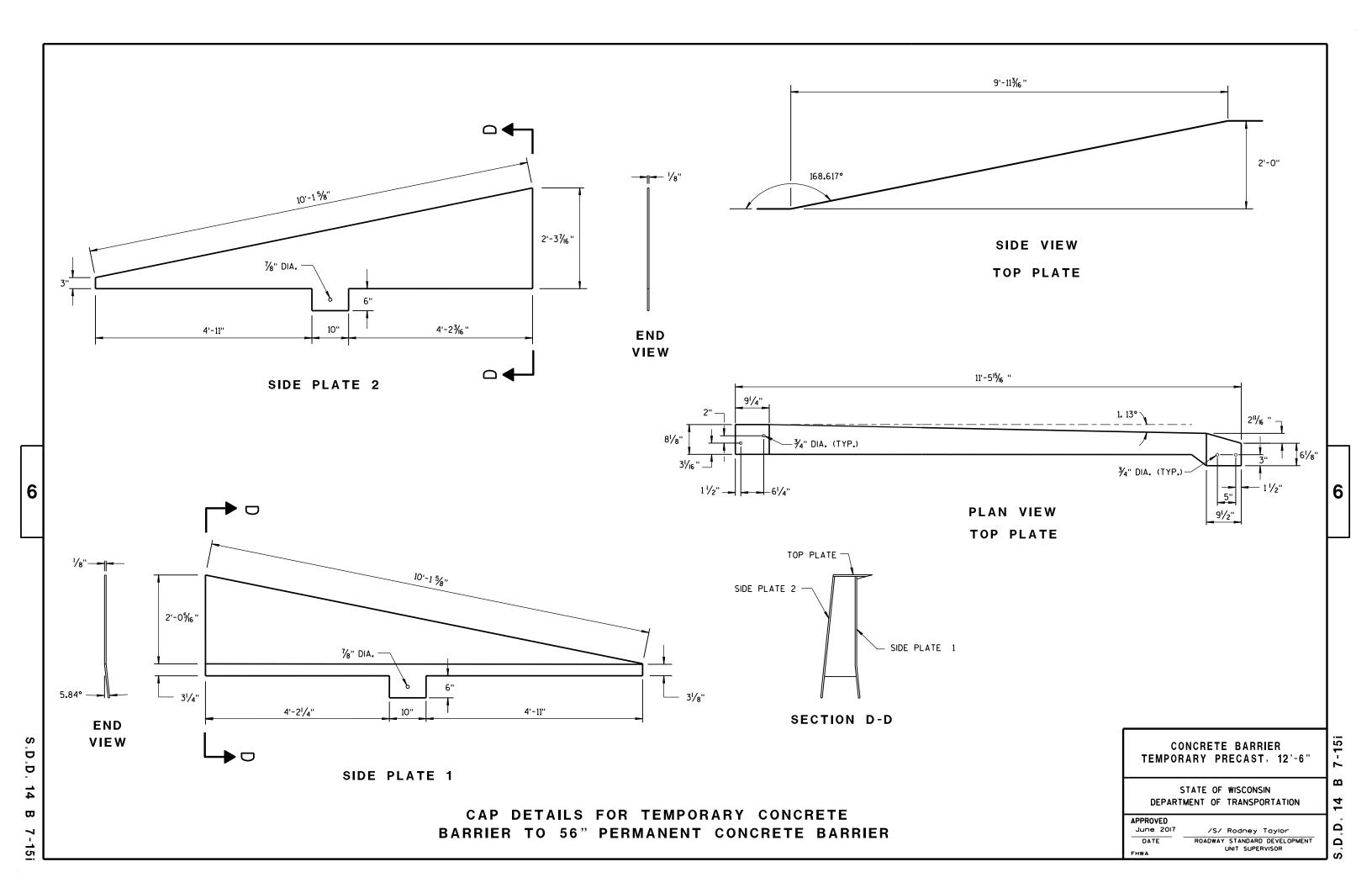
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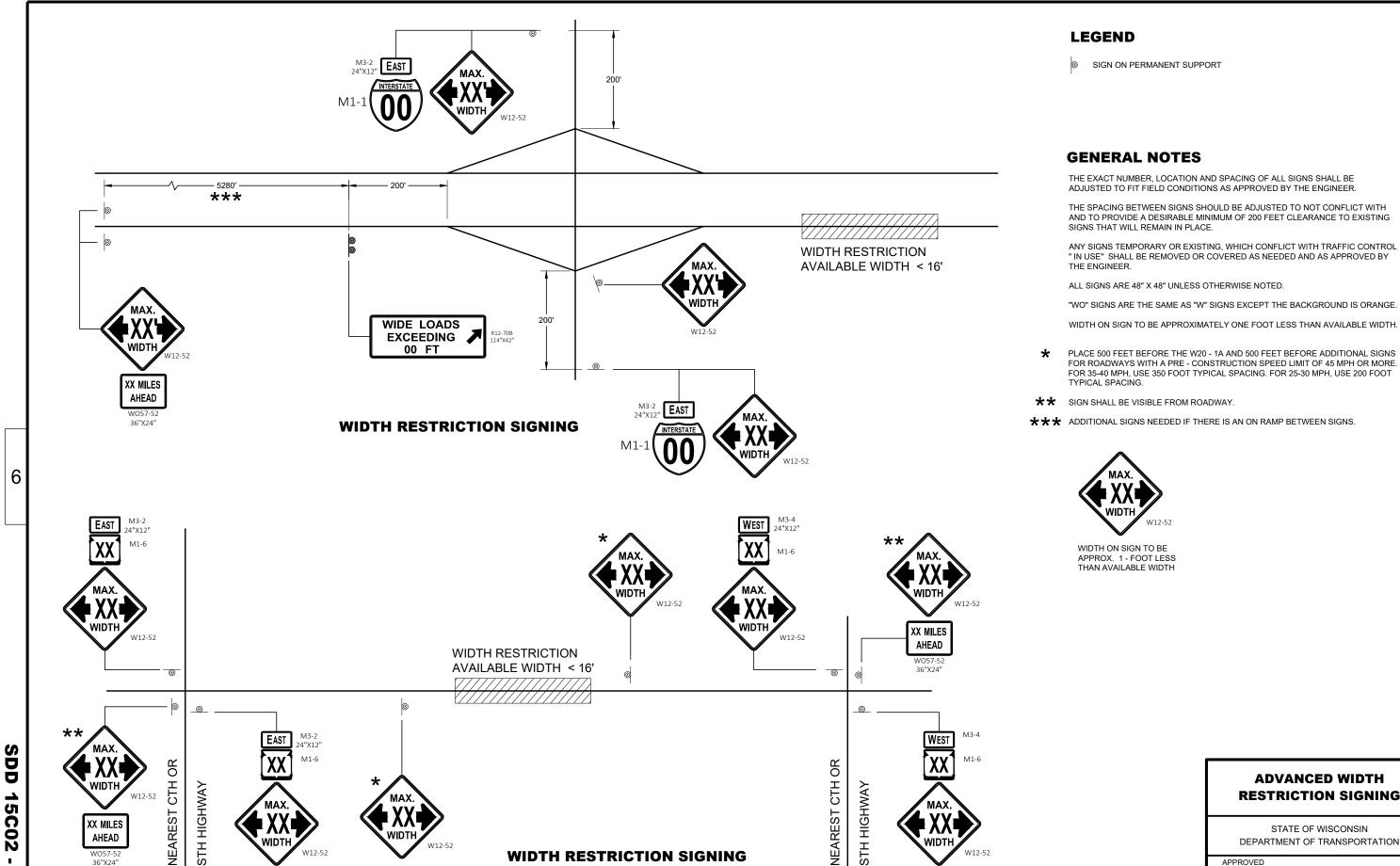
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STATE OF WISCONSIN

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2 LANE HIGHWAY

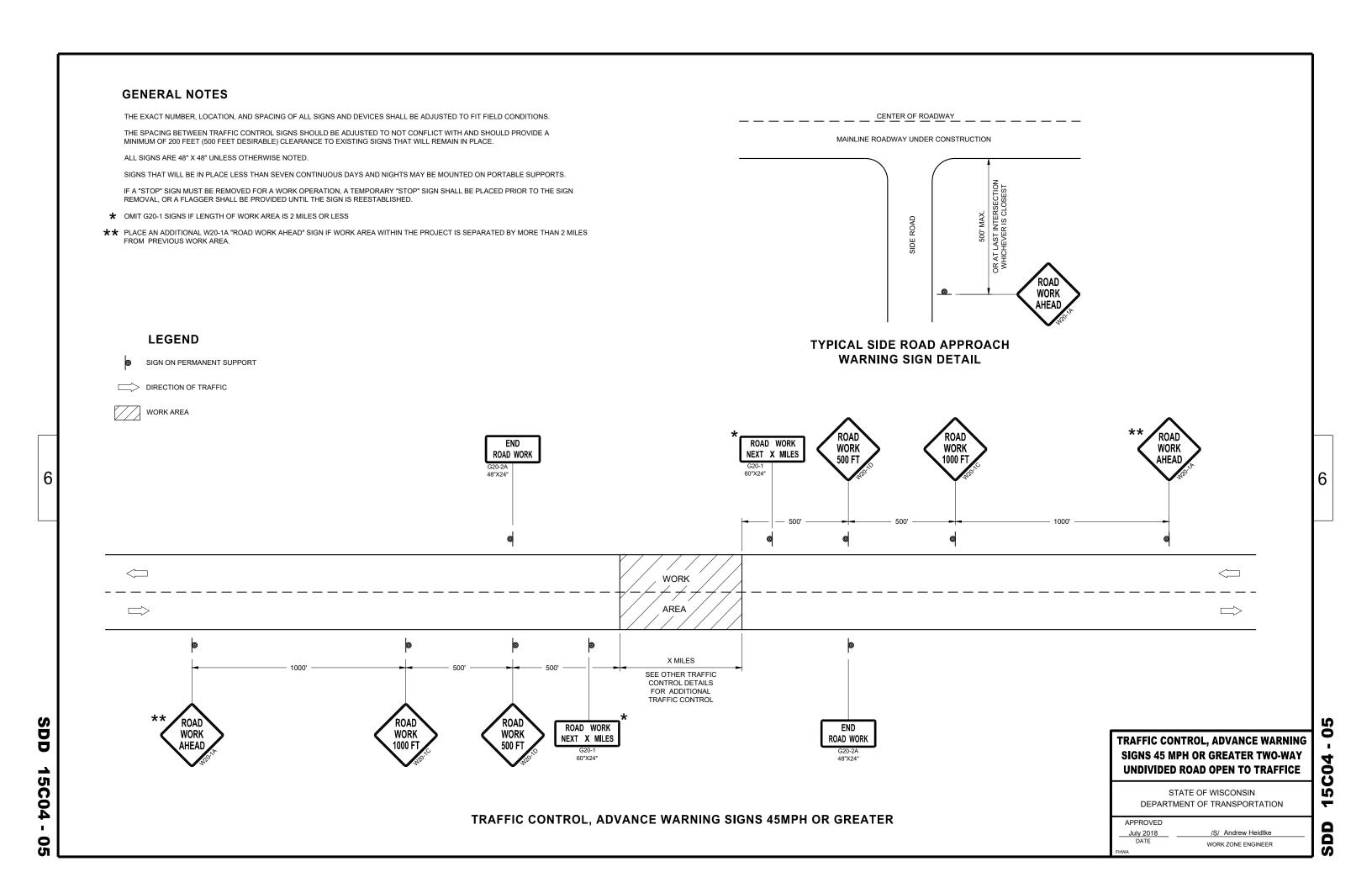
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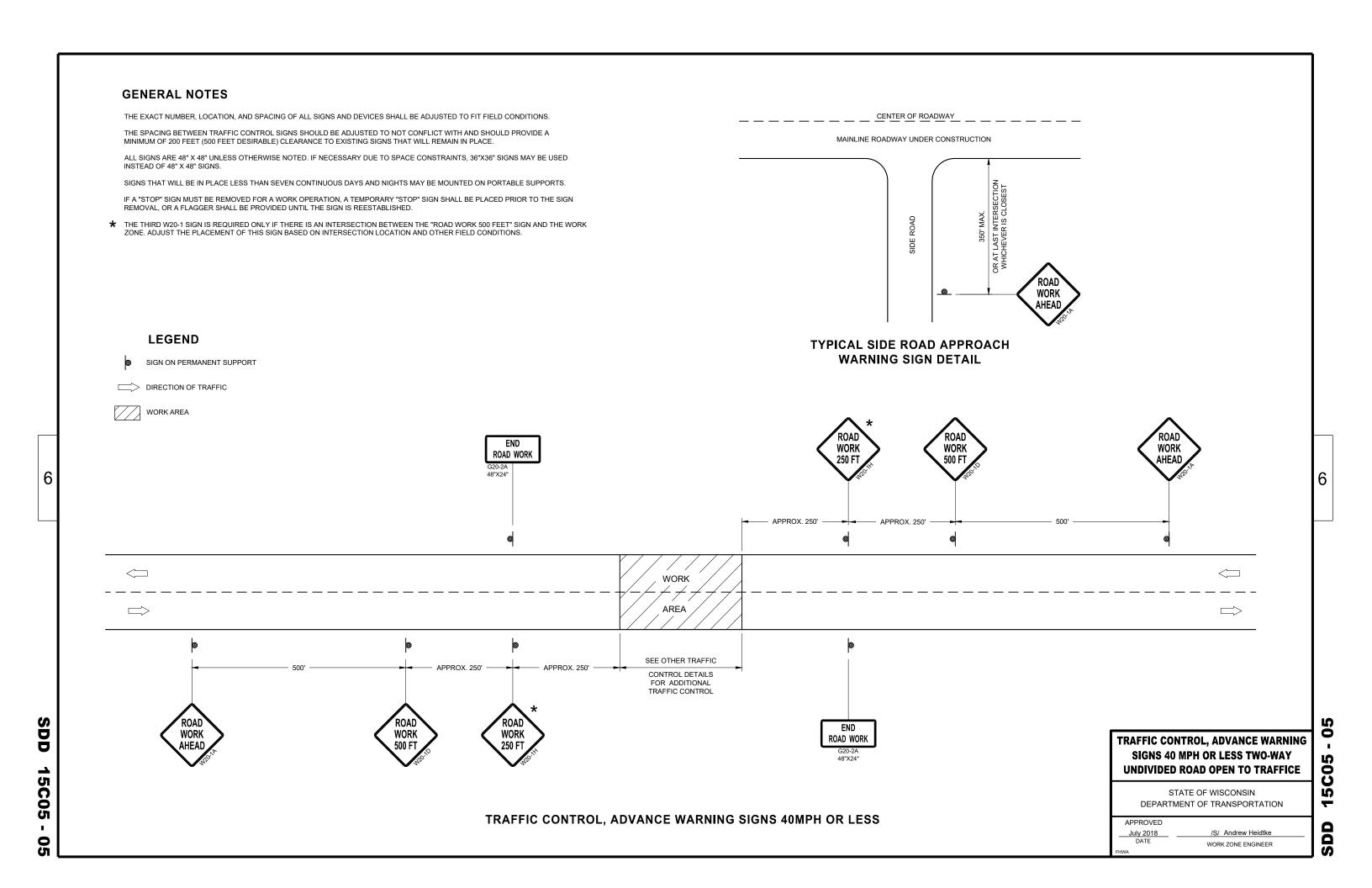
ADVANCED WIDTH RESTRICTION SIGNING

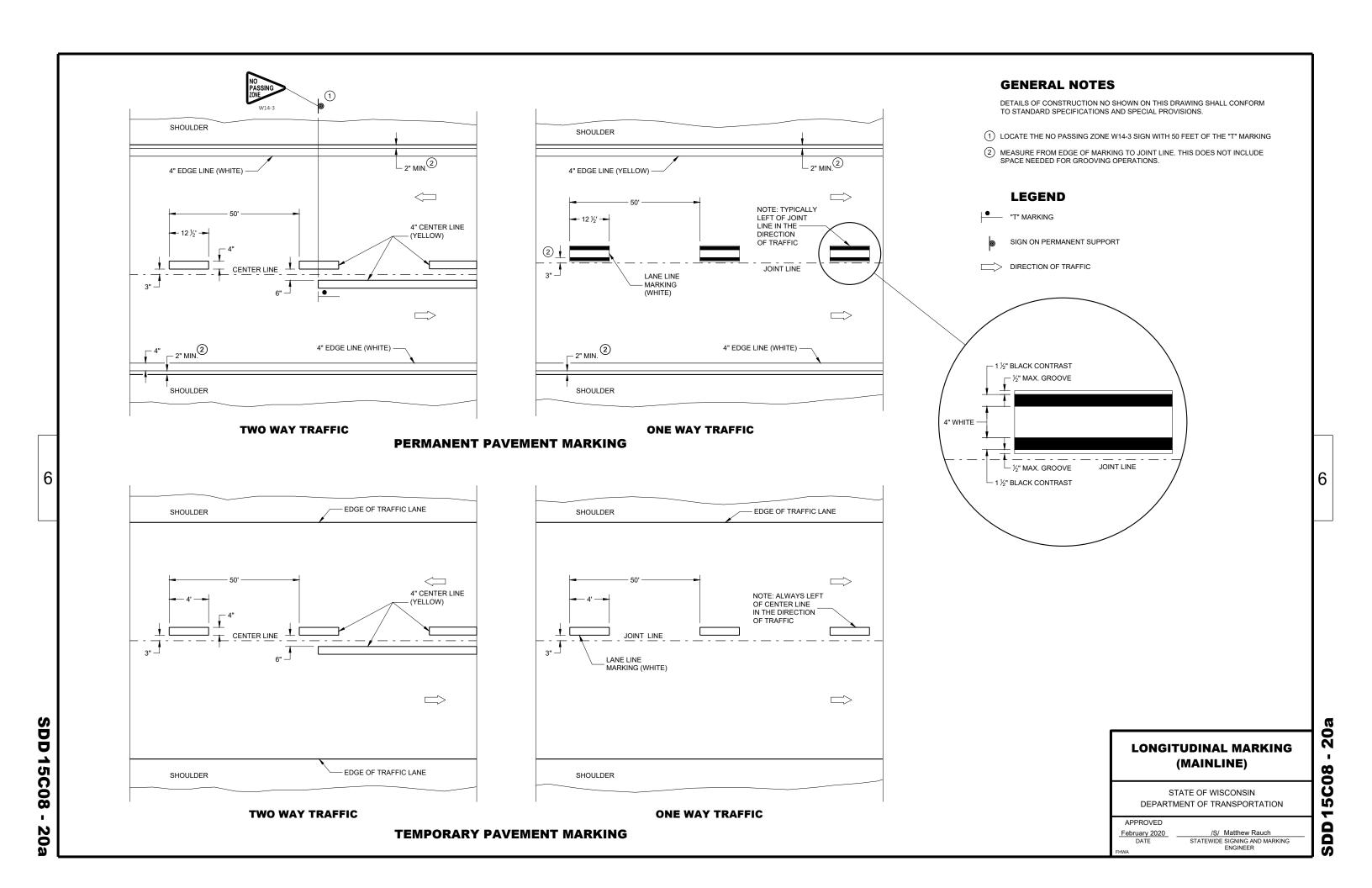
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

February 2020 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER



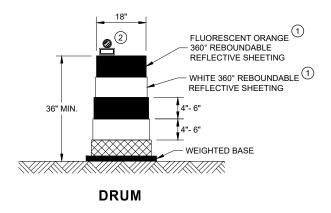


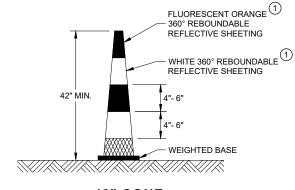


SDD 15C11

GENERAL NOTES

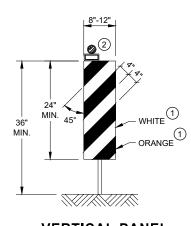
- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



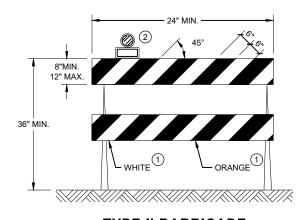


42" CONE DO NOT USE IN TAPERS

½ SPACING OF DRUMS

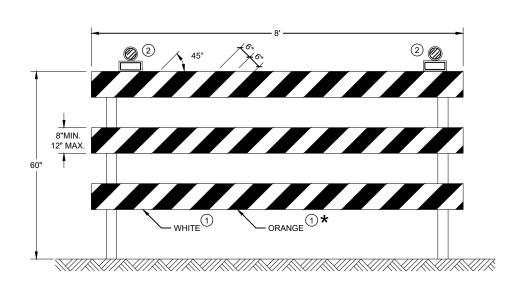


VERTICAL PANEL THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

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



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 07

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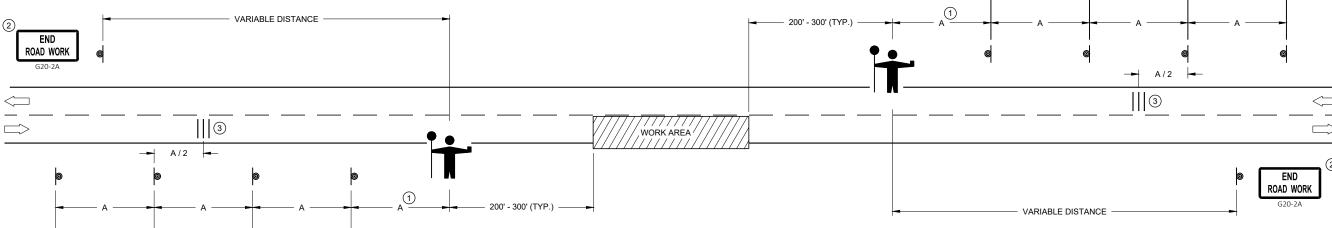
APPROVED	
June 2017	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	

RUMBLE

STRIPS

WORK

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



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

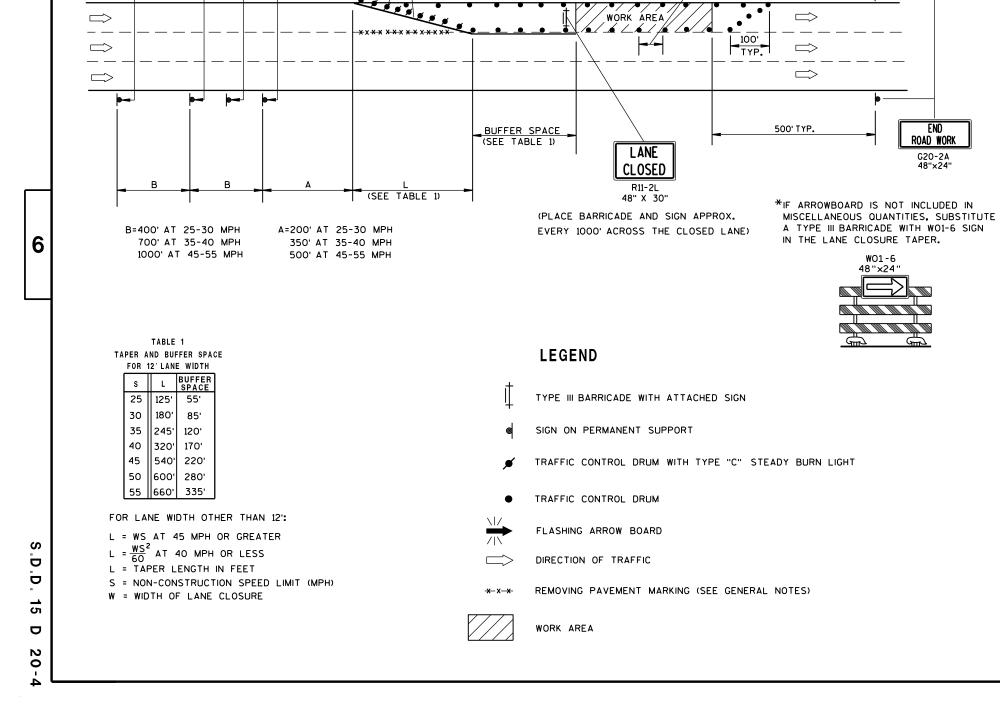
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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2019	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	





(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.

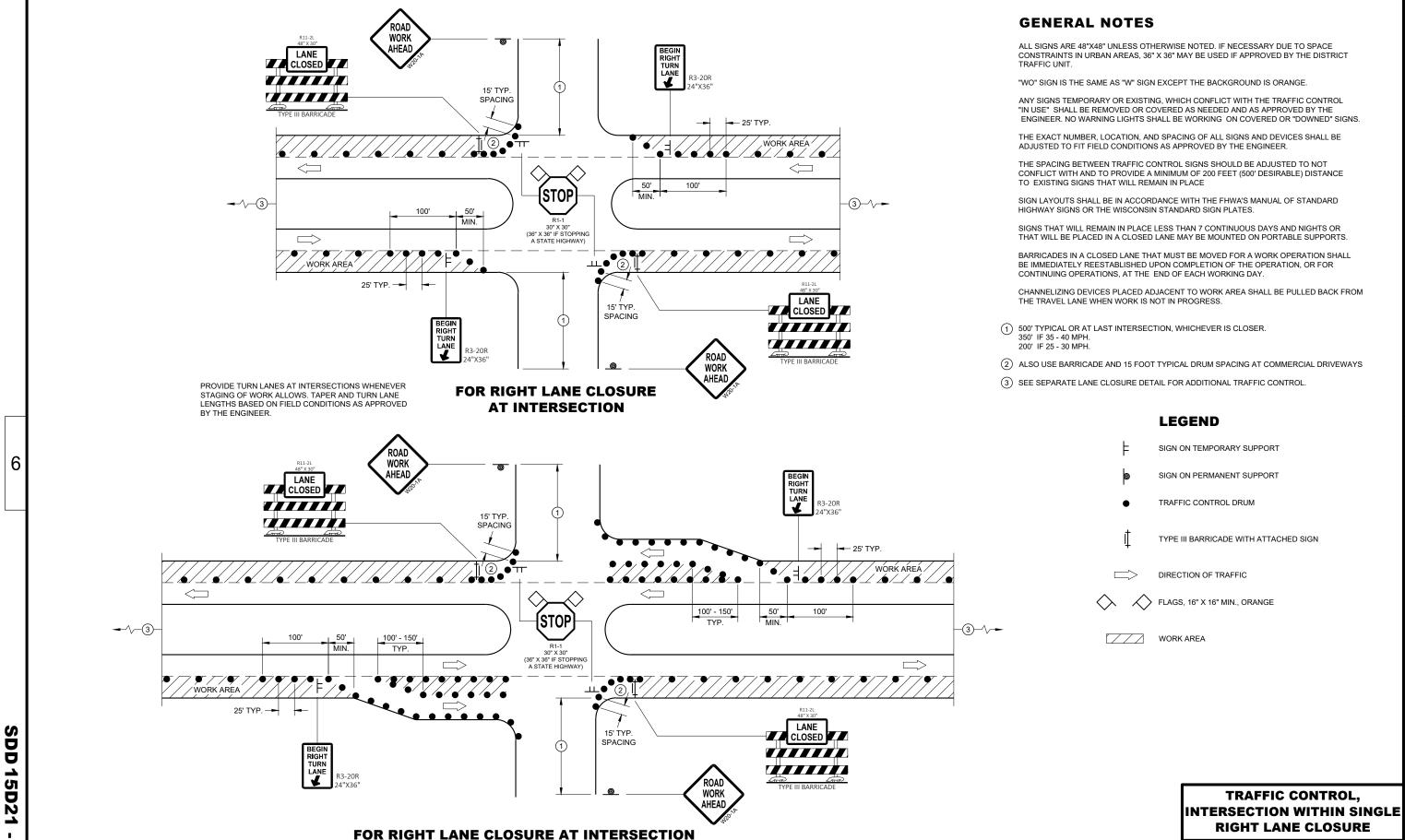
TRAFFIC CONTROL SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED June 2016

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

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(WITH RIGHT TURN BAY OPEN)

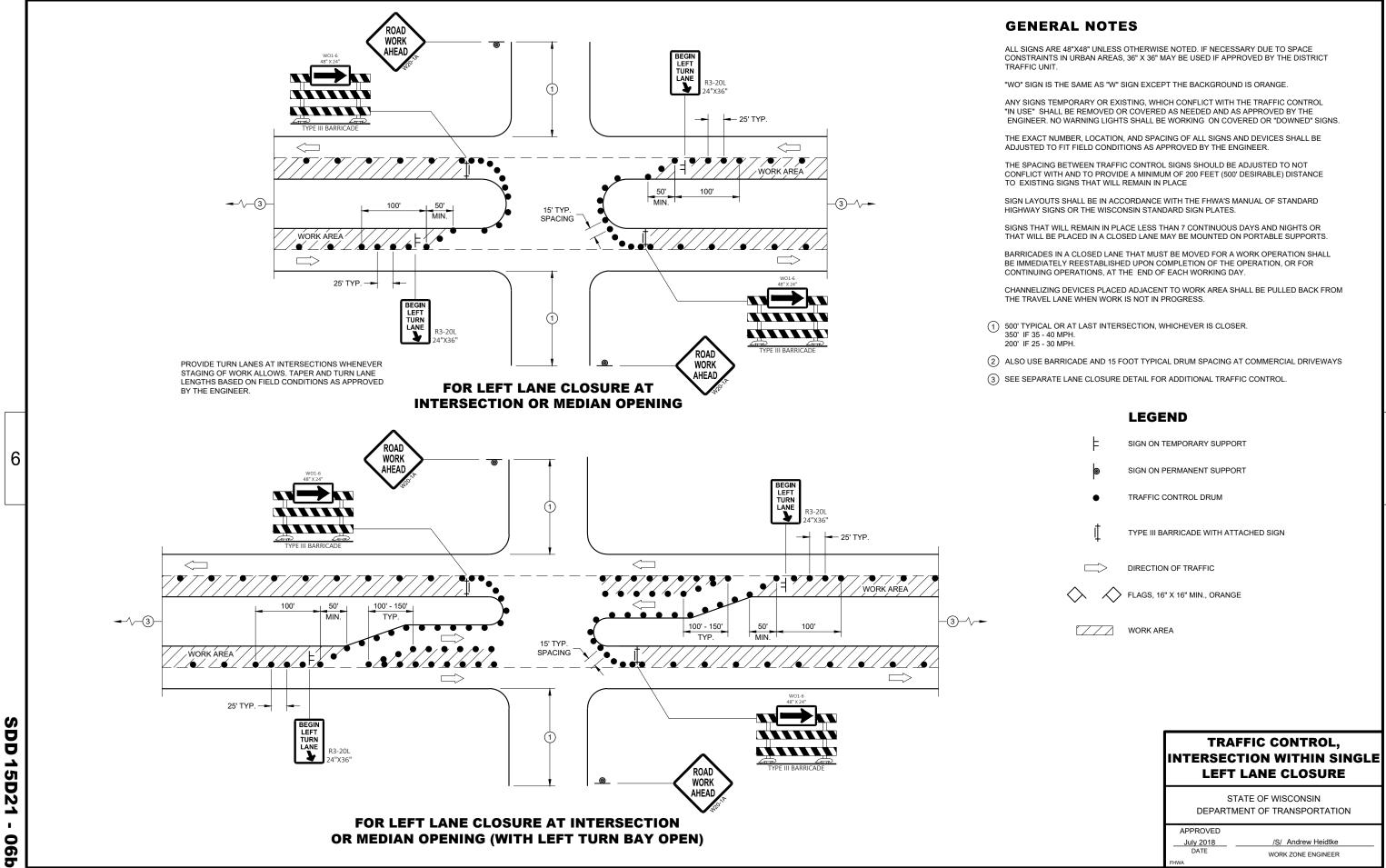
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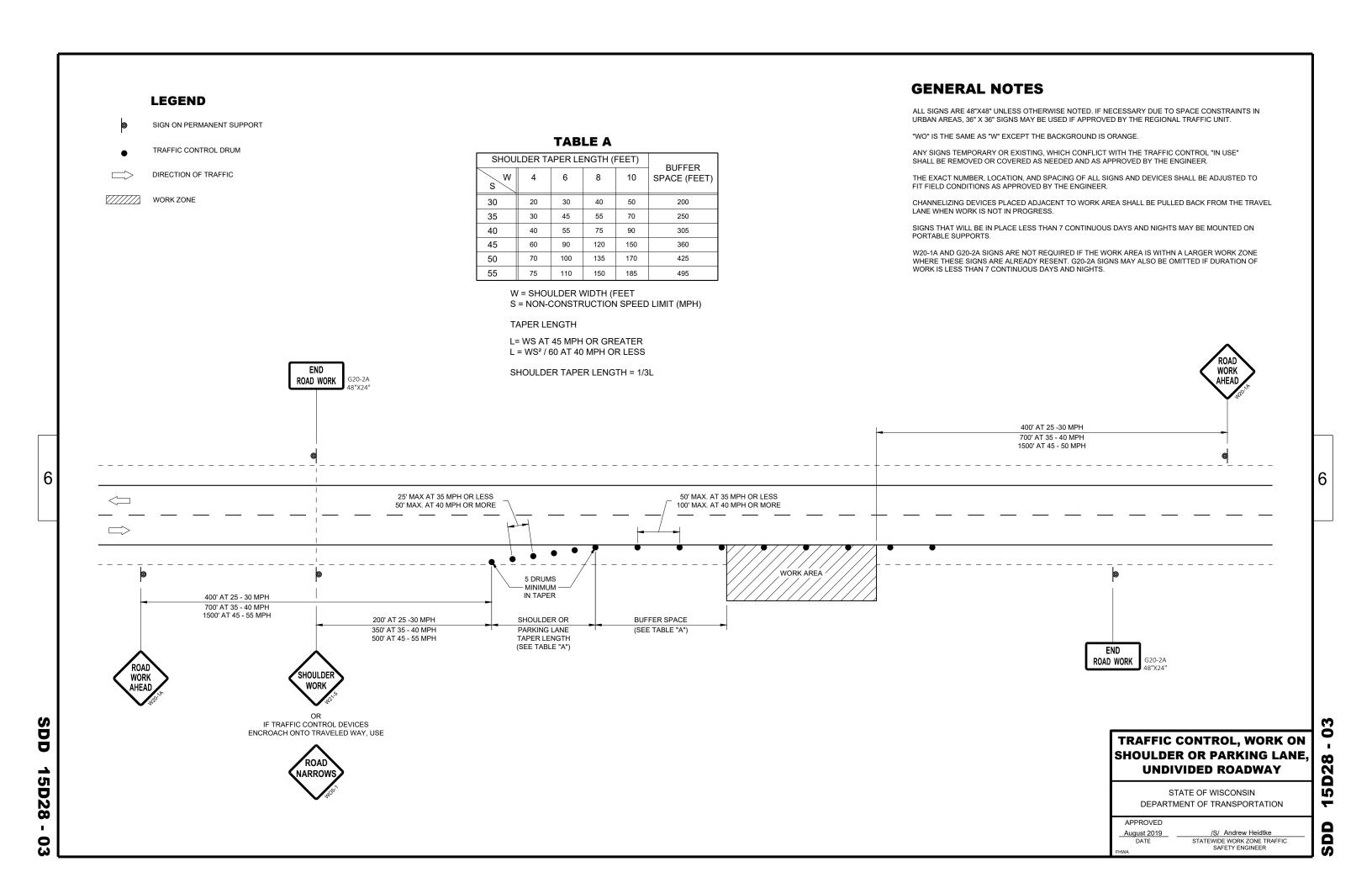
STATE OF WISCONSIN

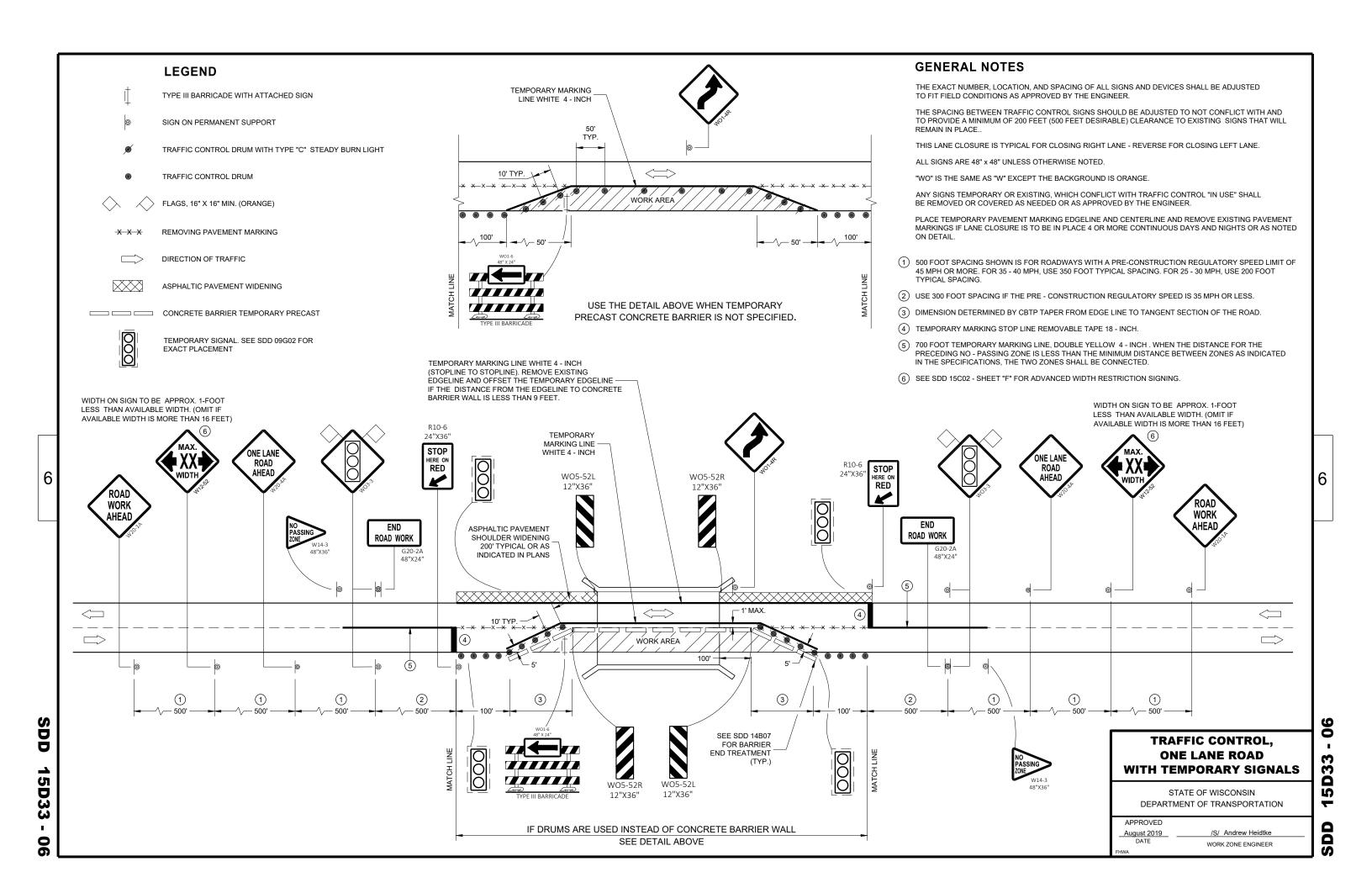
DEPARTMENT OF TRANSPORTATION



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WORK ZONE ENGINEER







TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SO. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

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

SEE NOTE (3)

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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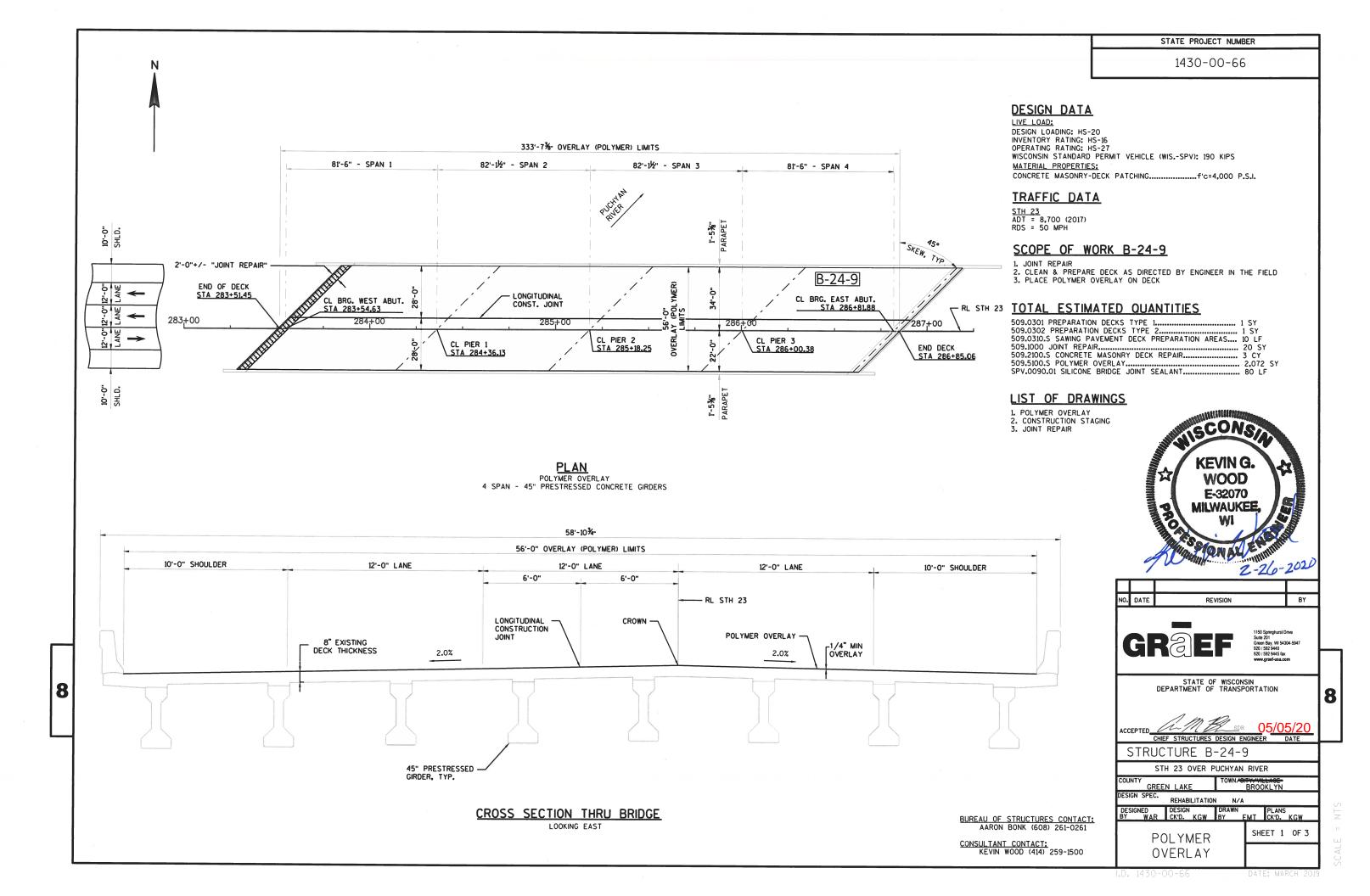
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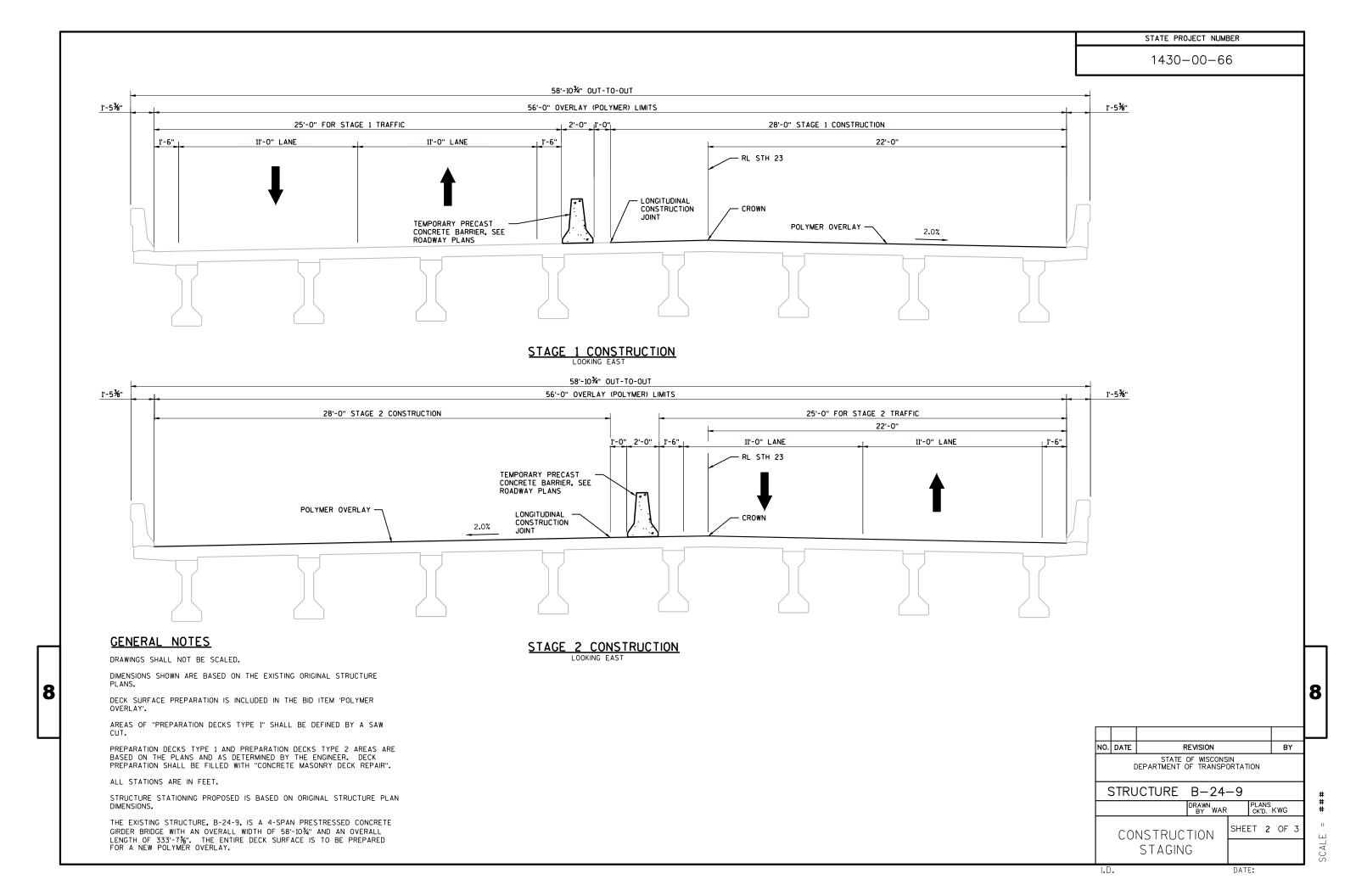
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

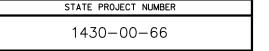
> /S/ Andrew Heidtke WORK ZONE ENGINEER

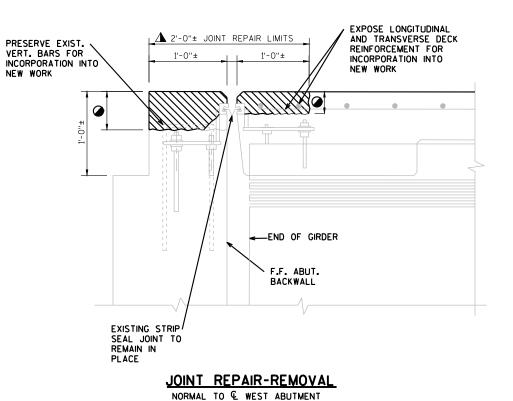
APPROVED

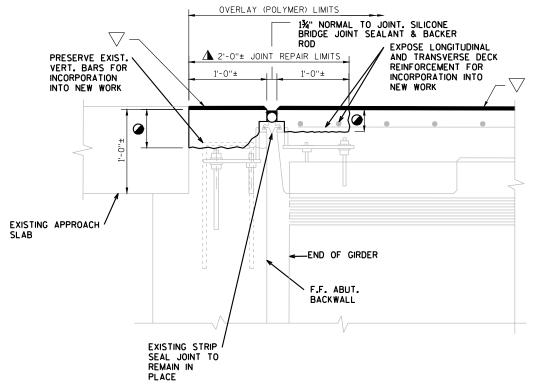
June 2017 DATE











SECTION THRU JOINT NORMAL TO & WEST ABUTMENT

NOTES

- ANY DAMAGE TO THE EXISTING STRIP SEAL EXPANSION JOINT STEEL EXTRUSION DURING CONCRETE REMOVAL SHALL BE REPAIRED AT THE DIRECTION OF THE ENGINEER AND SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "JOINT
- CONTRACTOR TO SELECT APPROPRIATE SIZED
 "SILICONE BRIDGE JOINT SEALANT" SYSTEM BASED
 ON THE SELECTED PRODUCT SPECIFICATION. JOINT MATERIAL SIZE SHALL BE APPROVED BY THE ENGINEER.

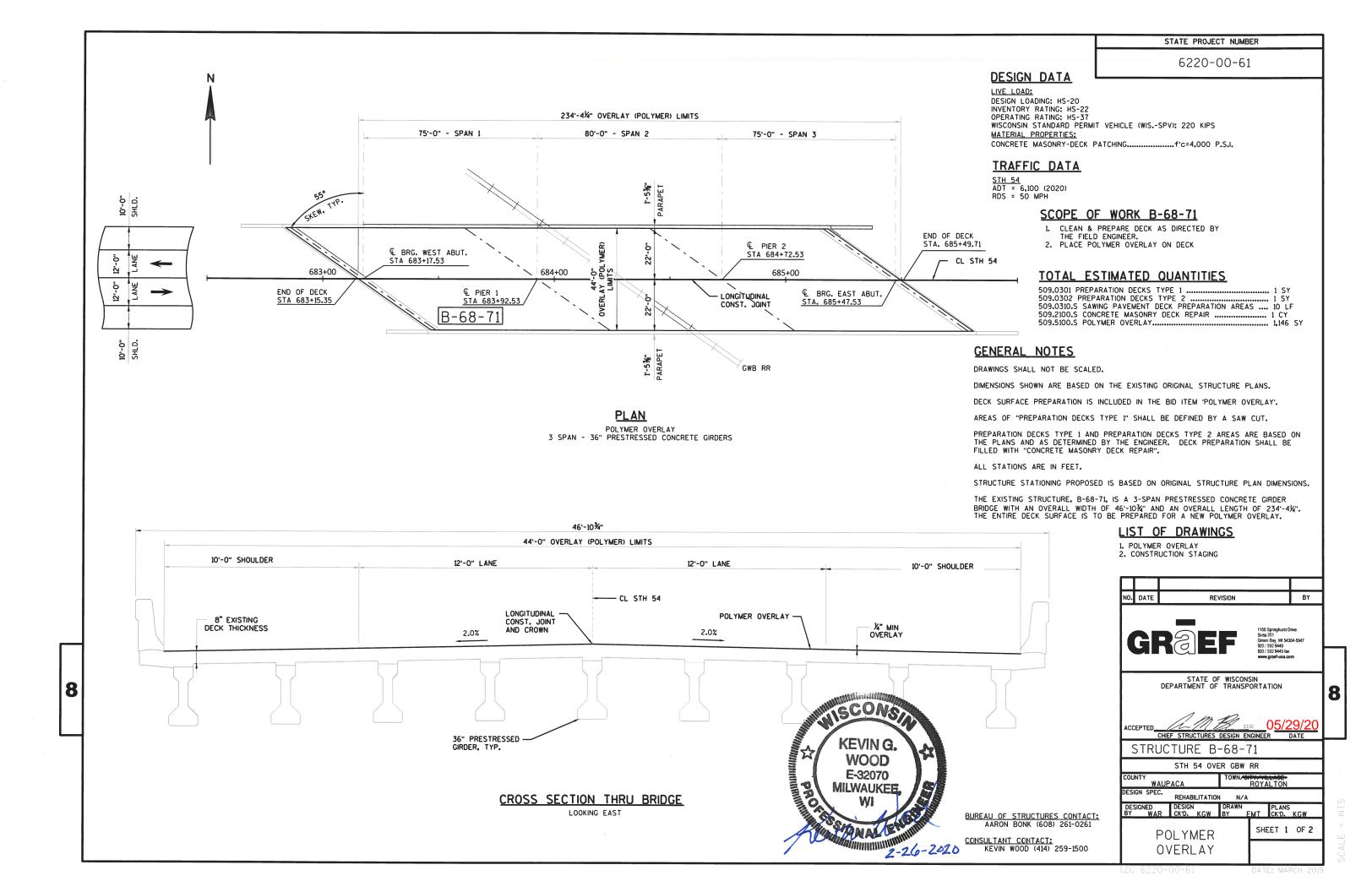
LEGEND

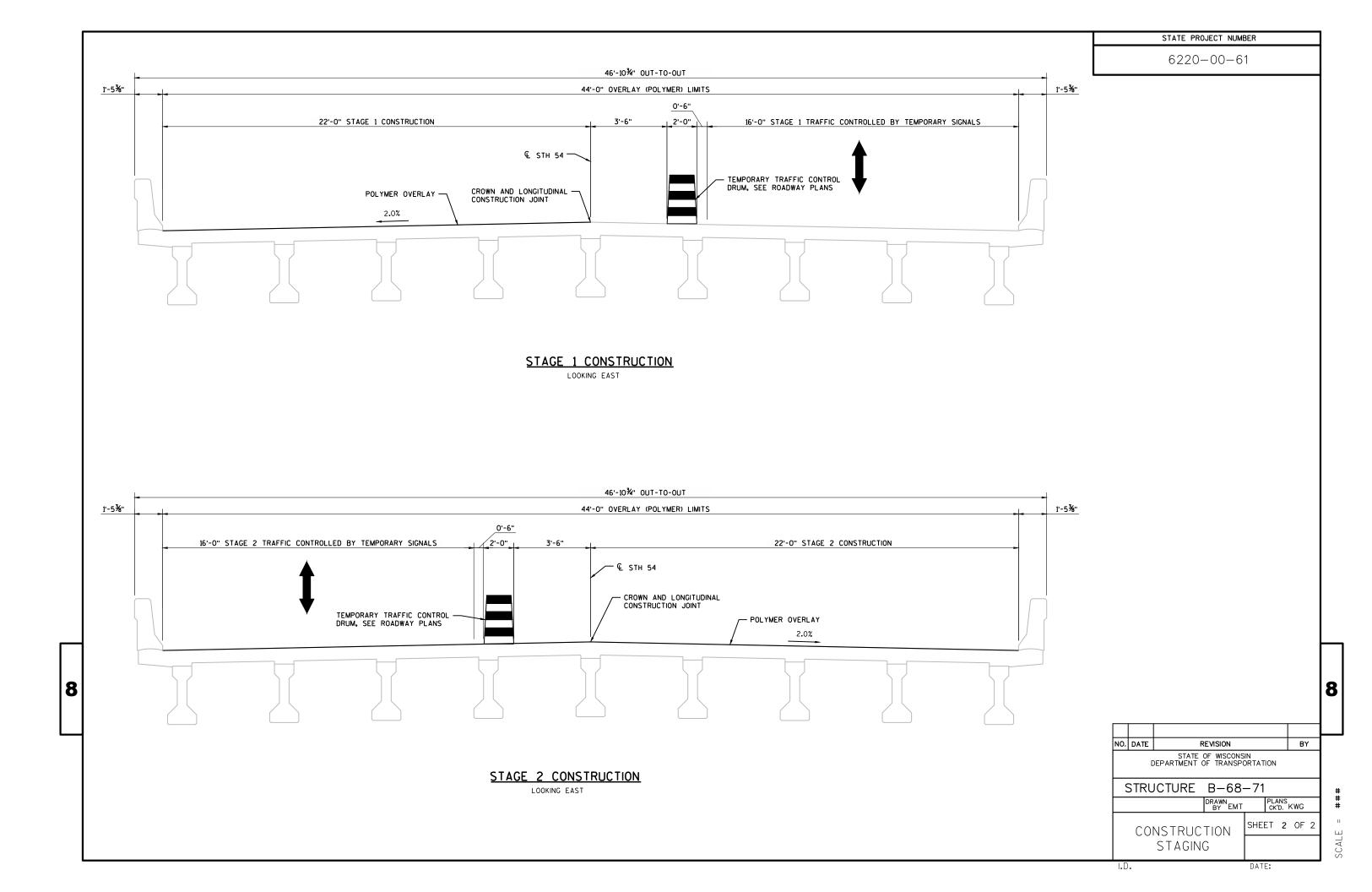
- REMOVE AND REPLACE EXISTING CONCRETE TO A DEPTH OF 1" BELOW THE TOP MAT OF STEEL.
- √ ¼" MIN. THIN POLYMER OVERLAY
- EXISTING CONCRETE REMOVAL LIMITS
- $f \Lambda$ DIMENSIONS ARE GIVEN NORMAL TO \P OF SUBSTRUCTURE UNIT.

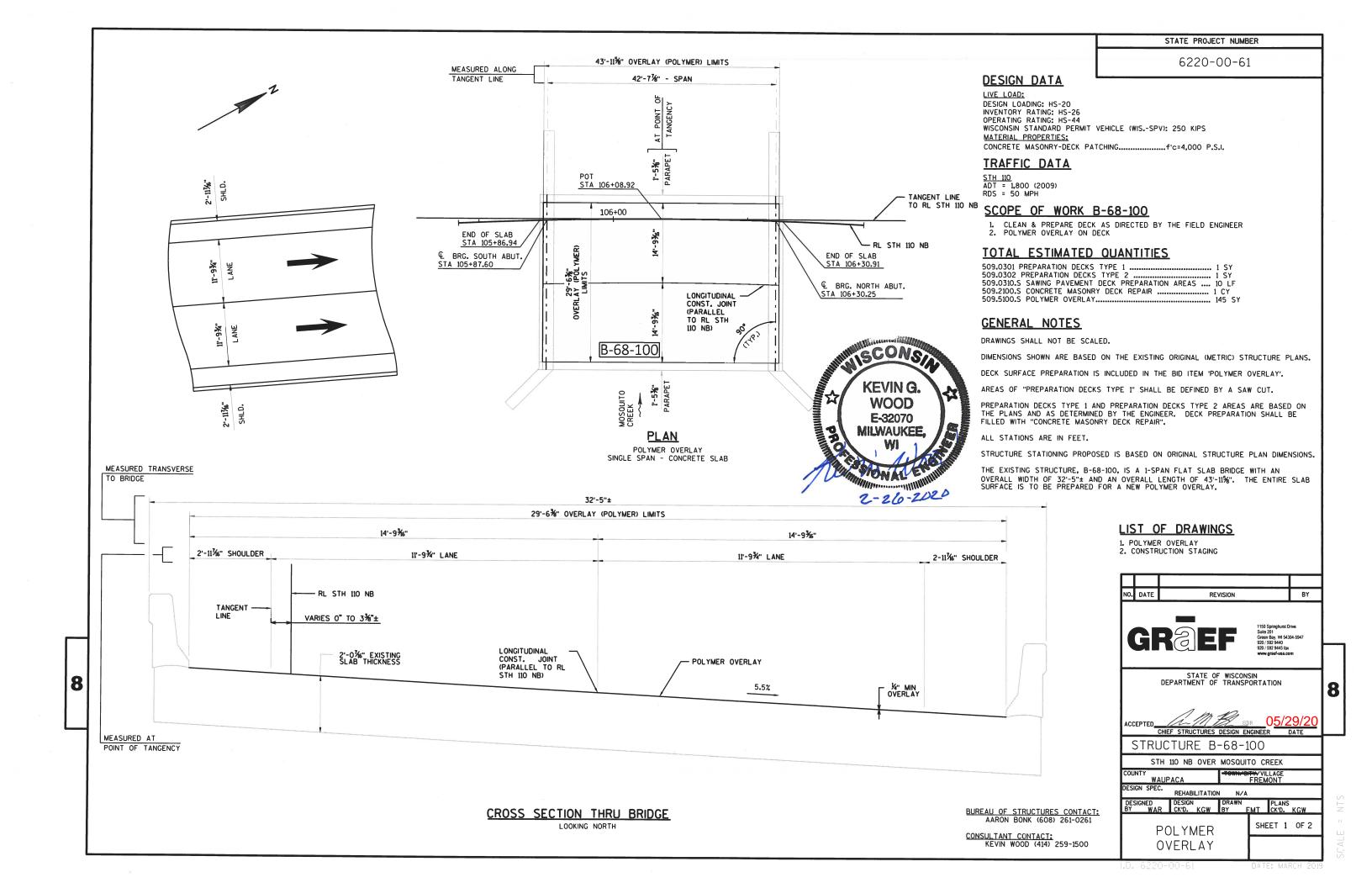
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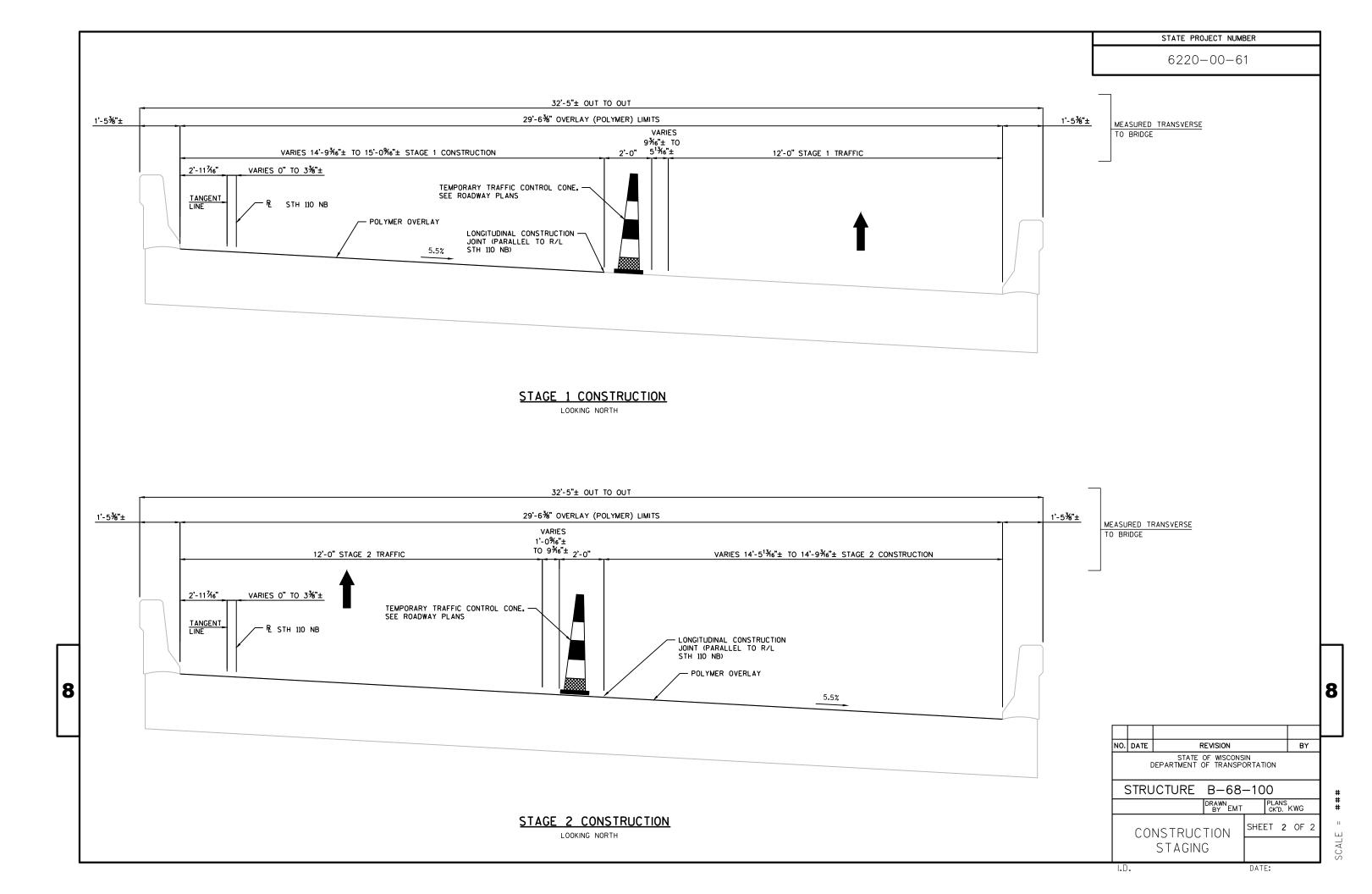
NO. DATE REVISION BY STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-24-9 PLANS CK'D. KWG SHEET 3 OF 3 JOINT REPAIR

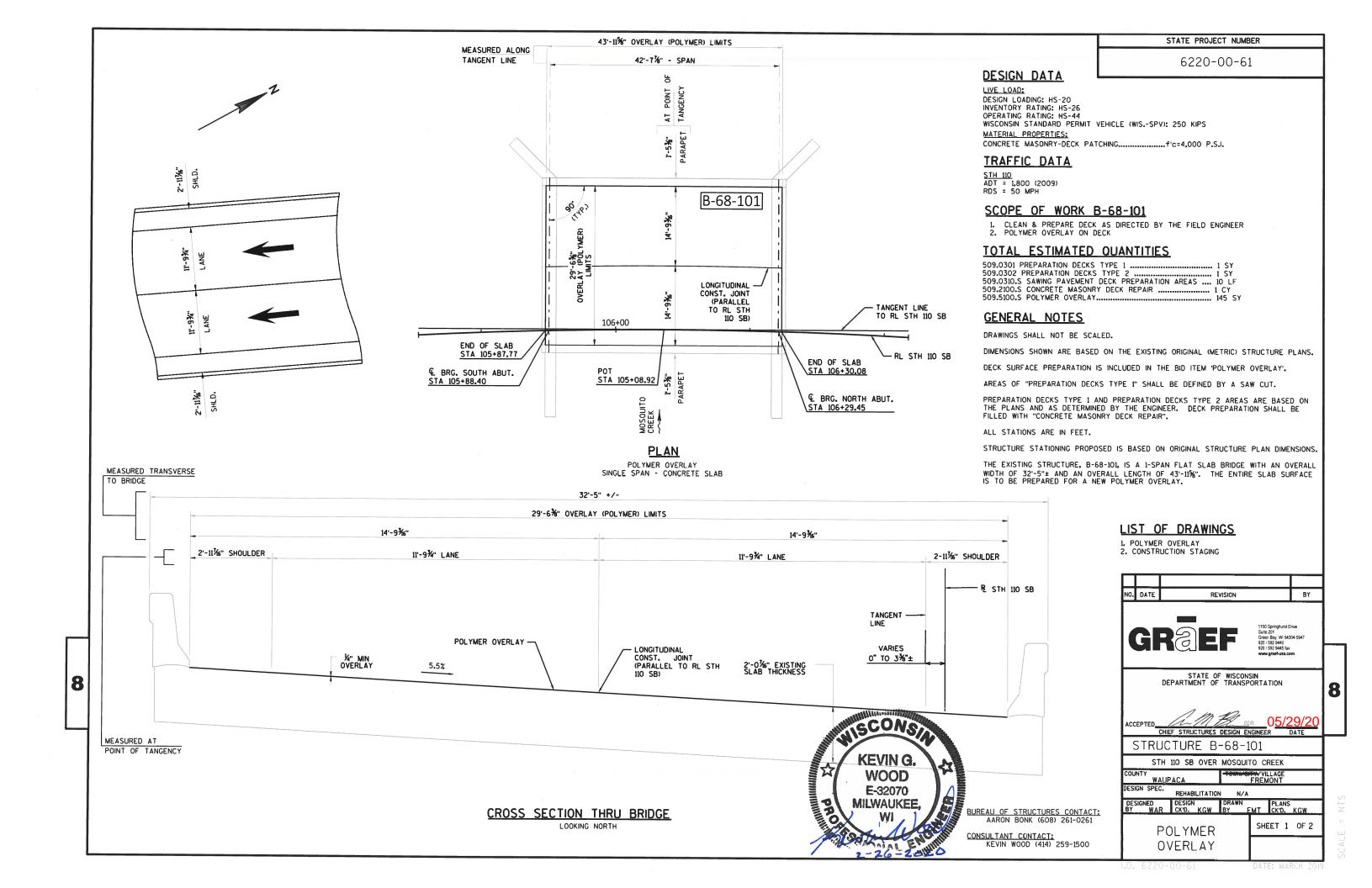
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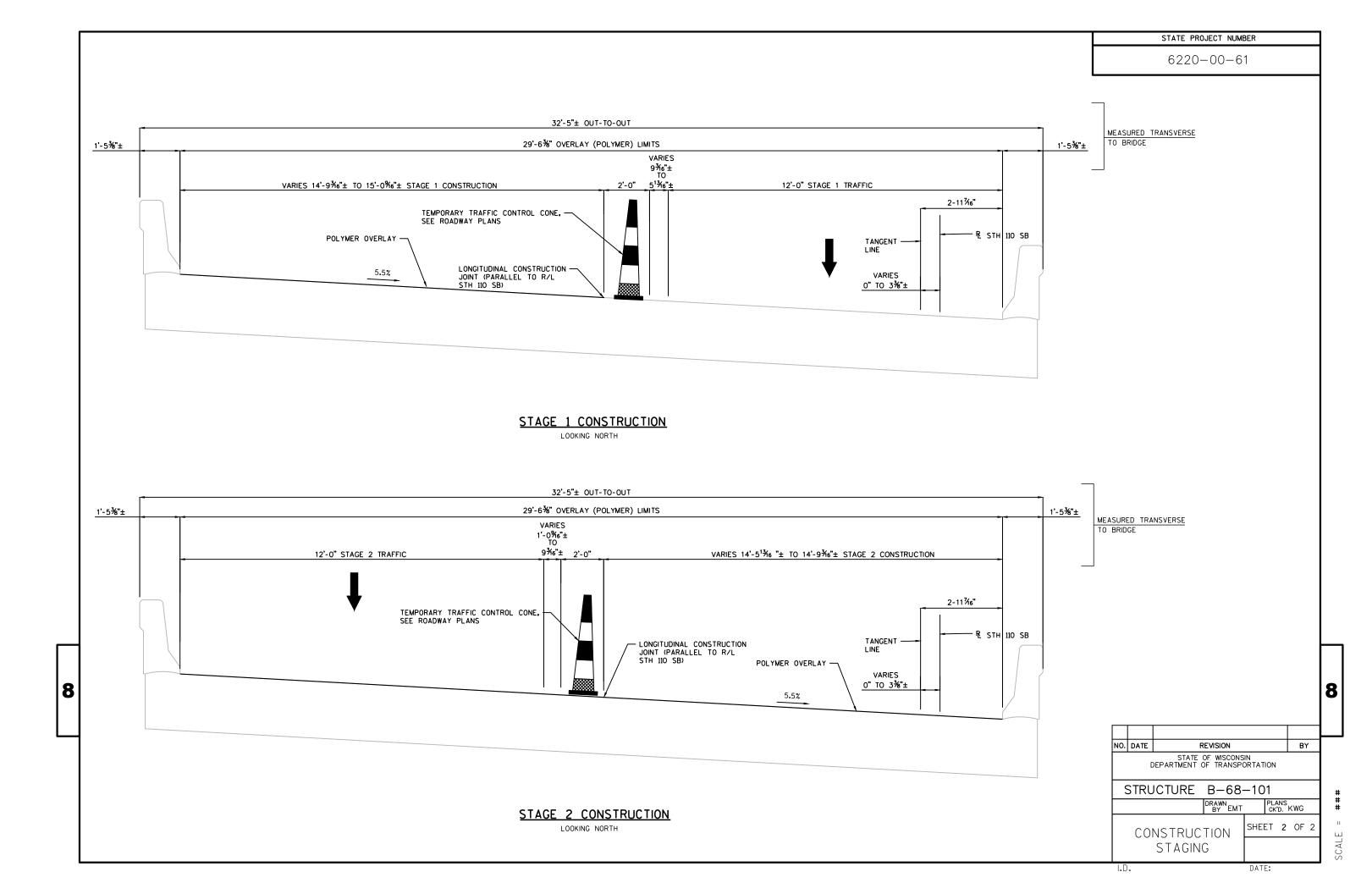


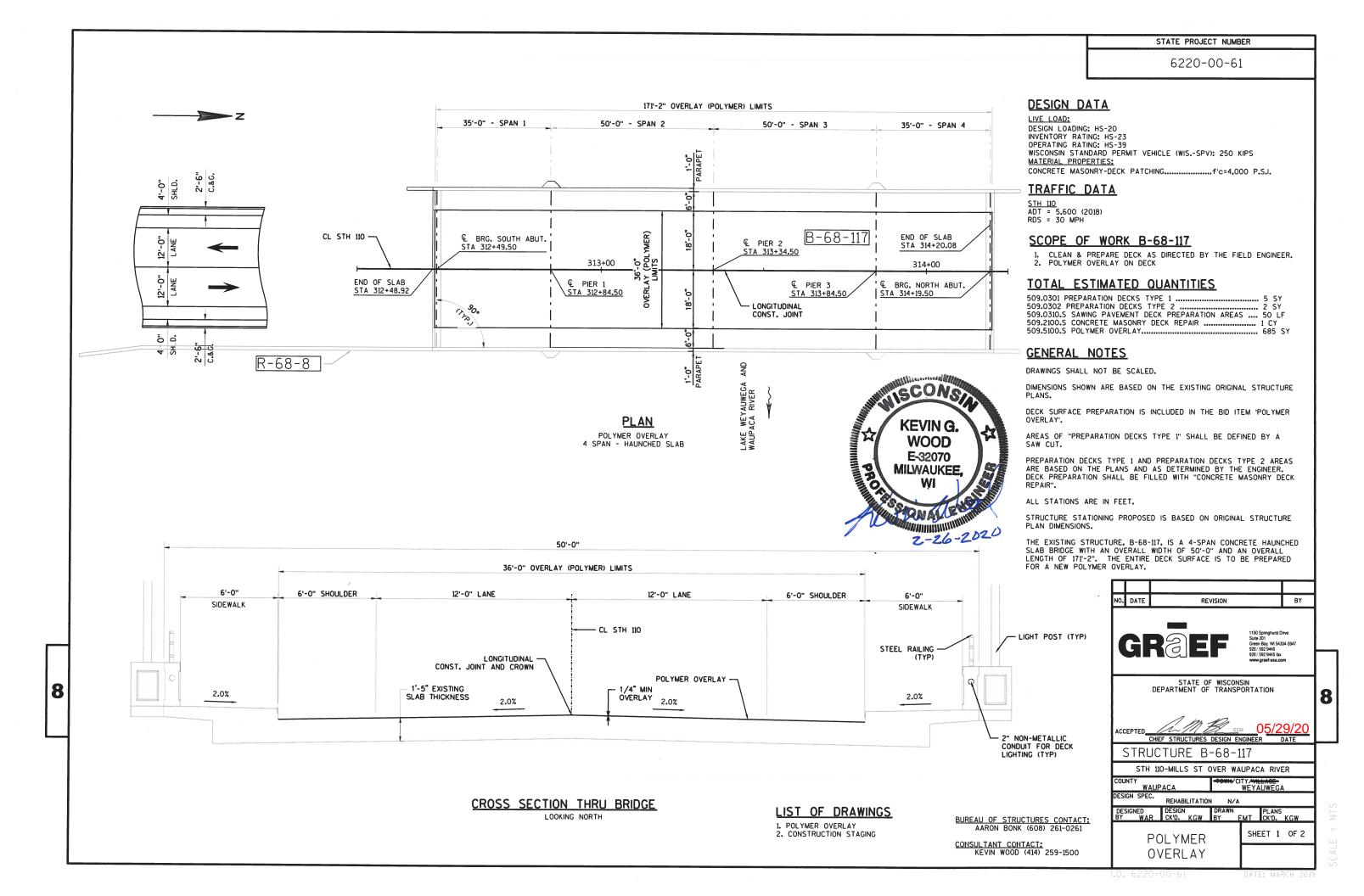


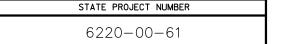


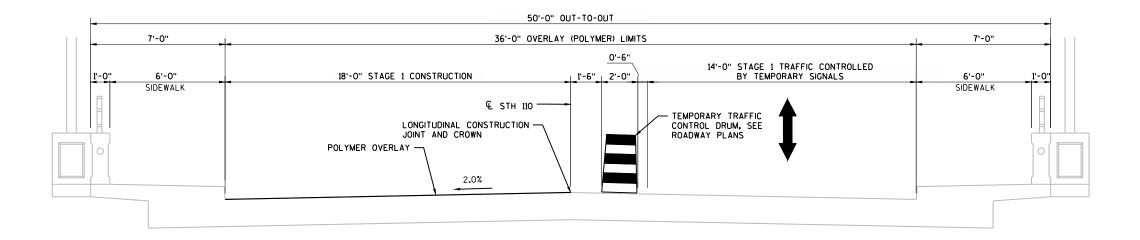






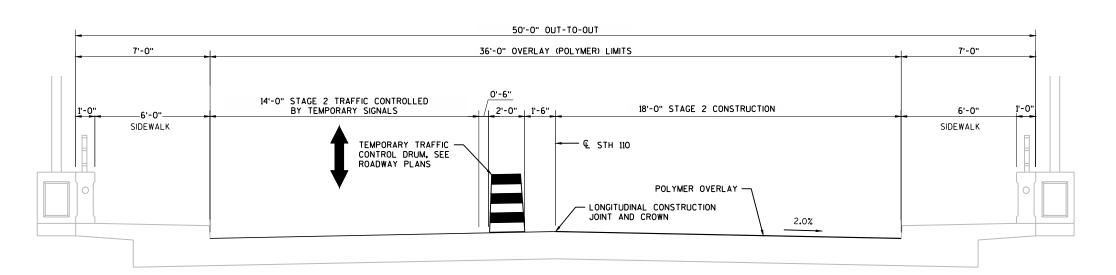






STAGE 1 CONSTRUCTION

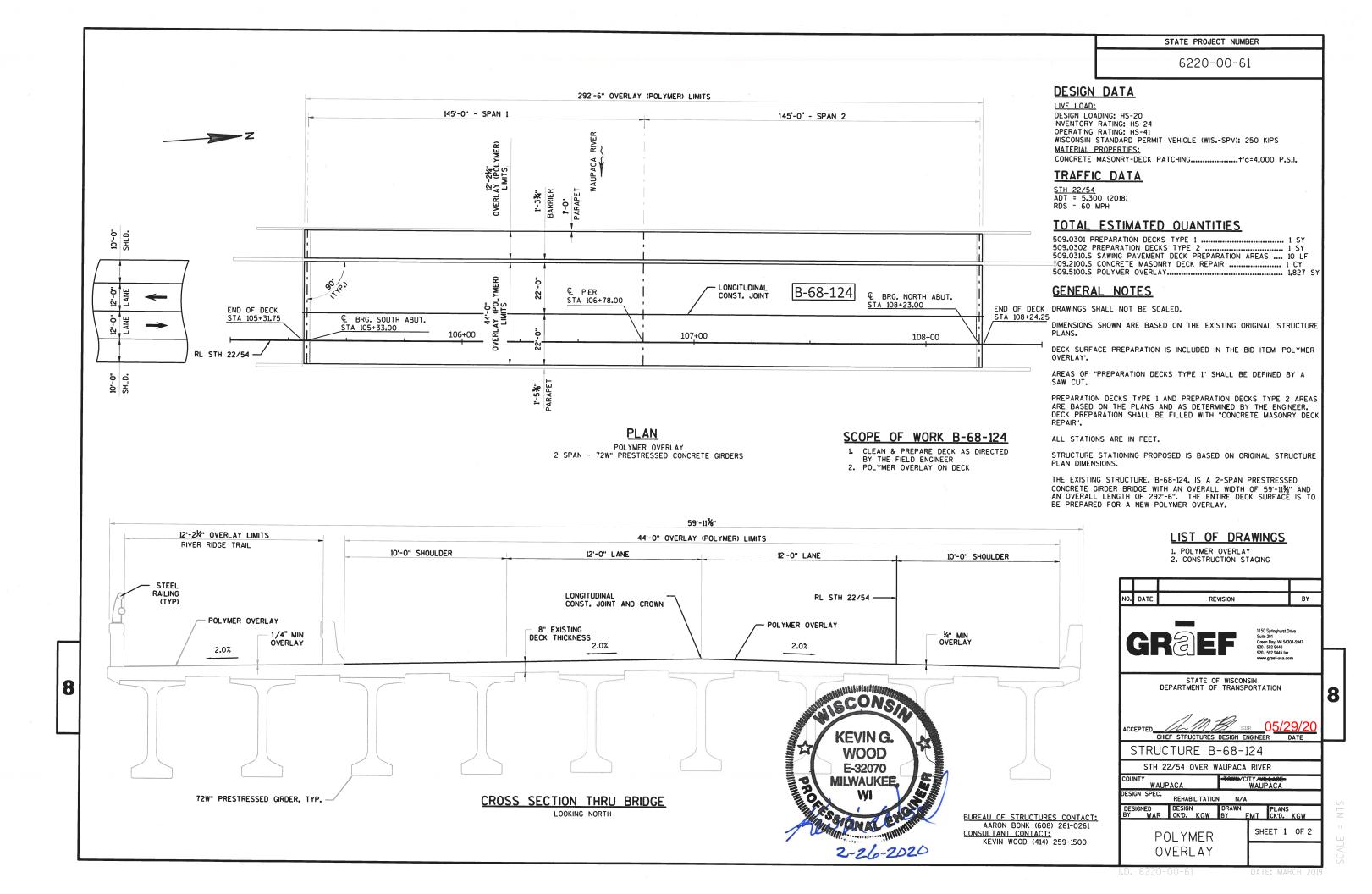
LOOKING NORTH

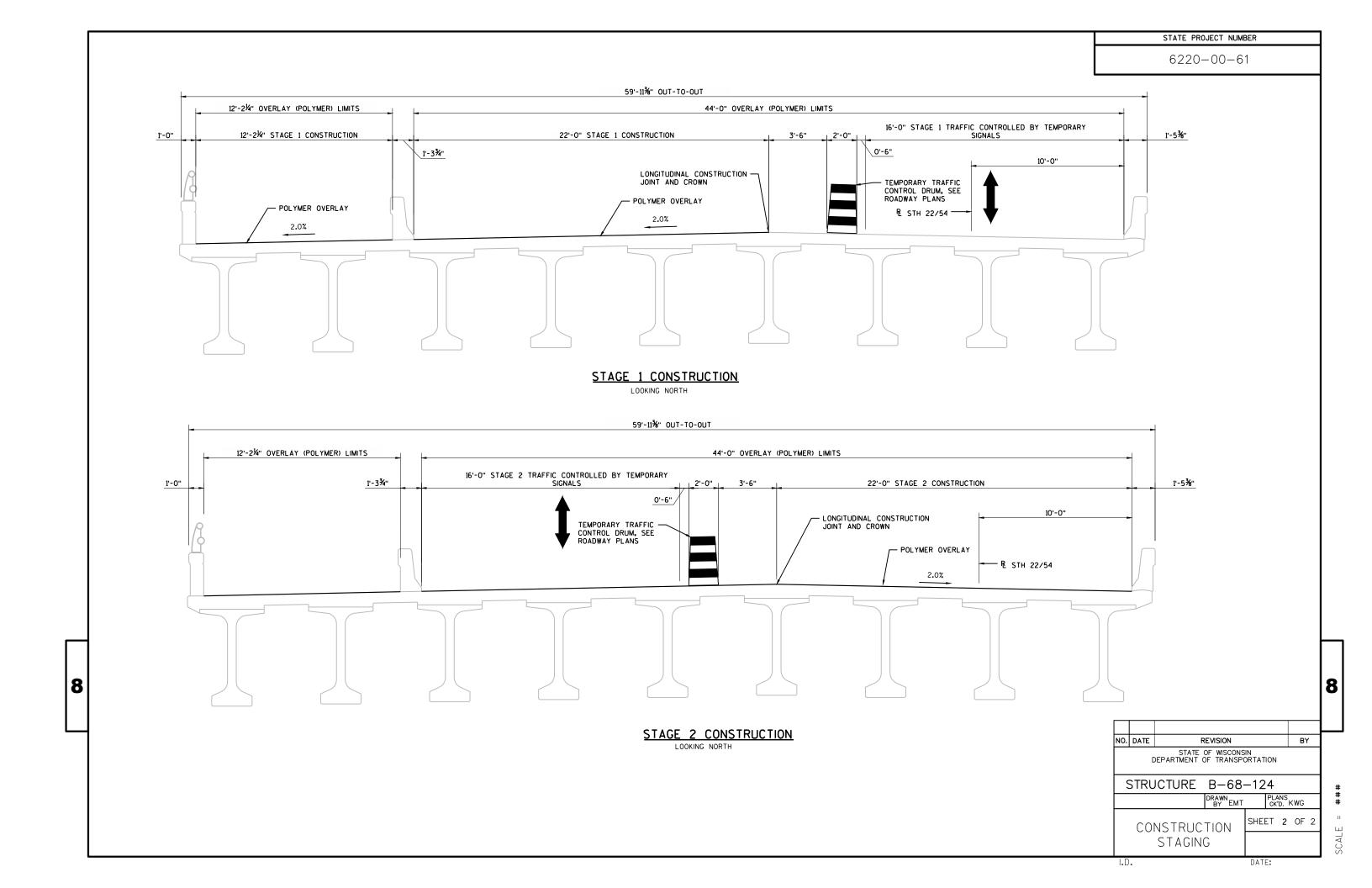


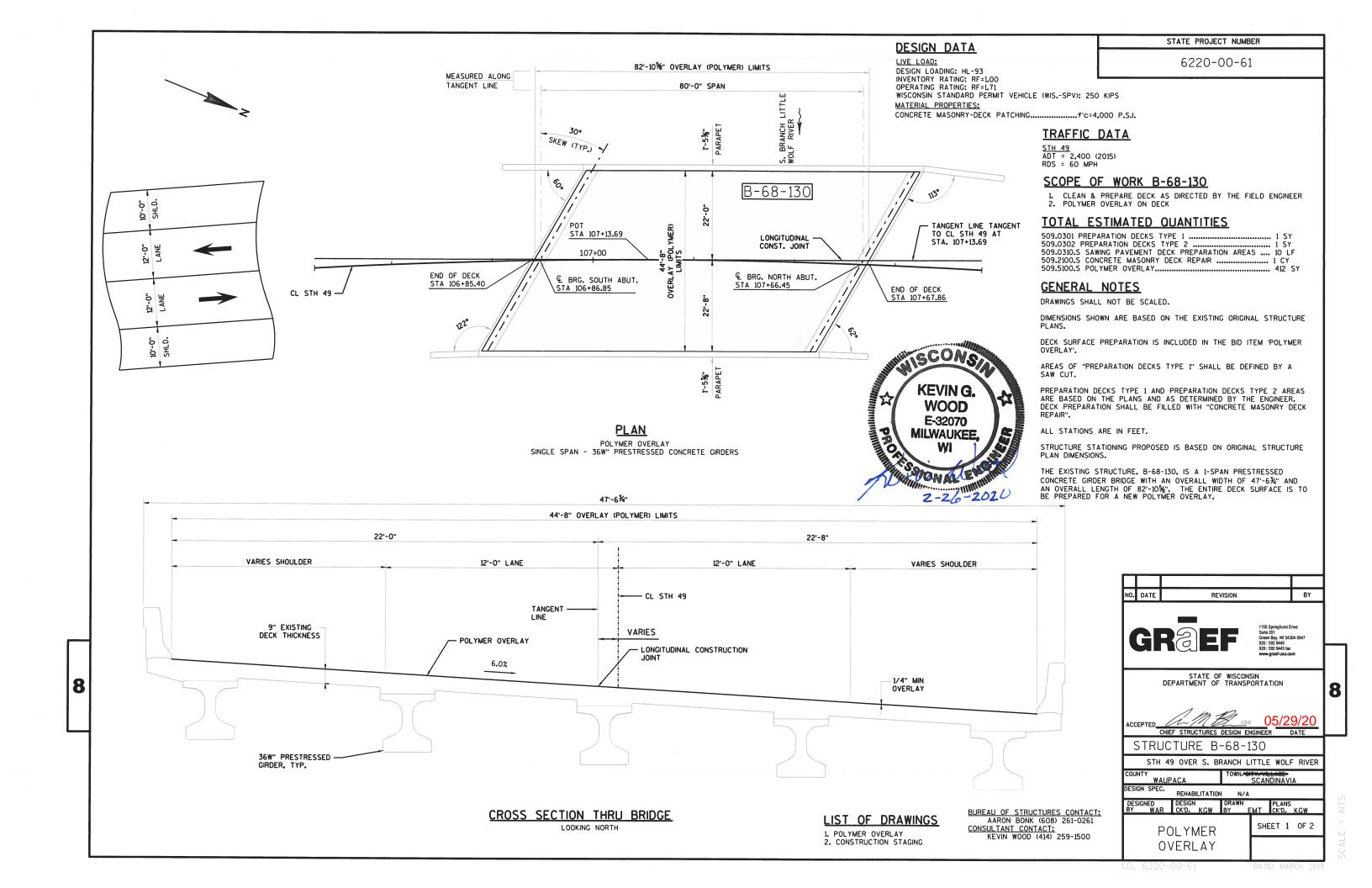
STAGE 2 CONSTRUCTION

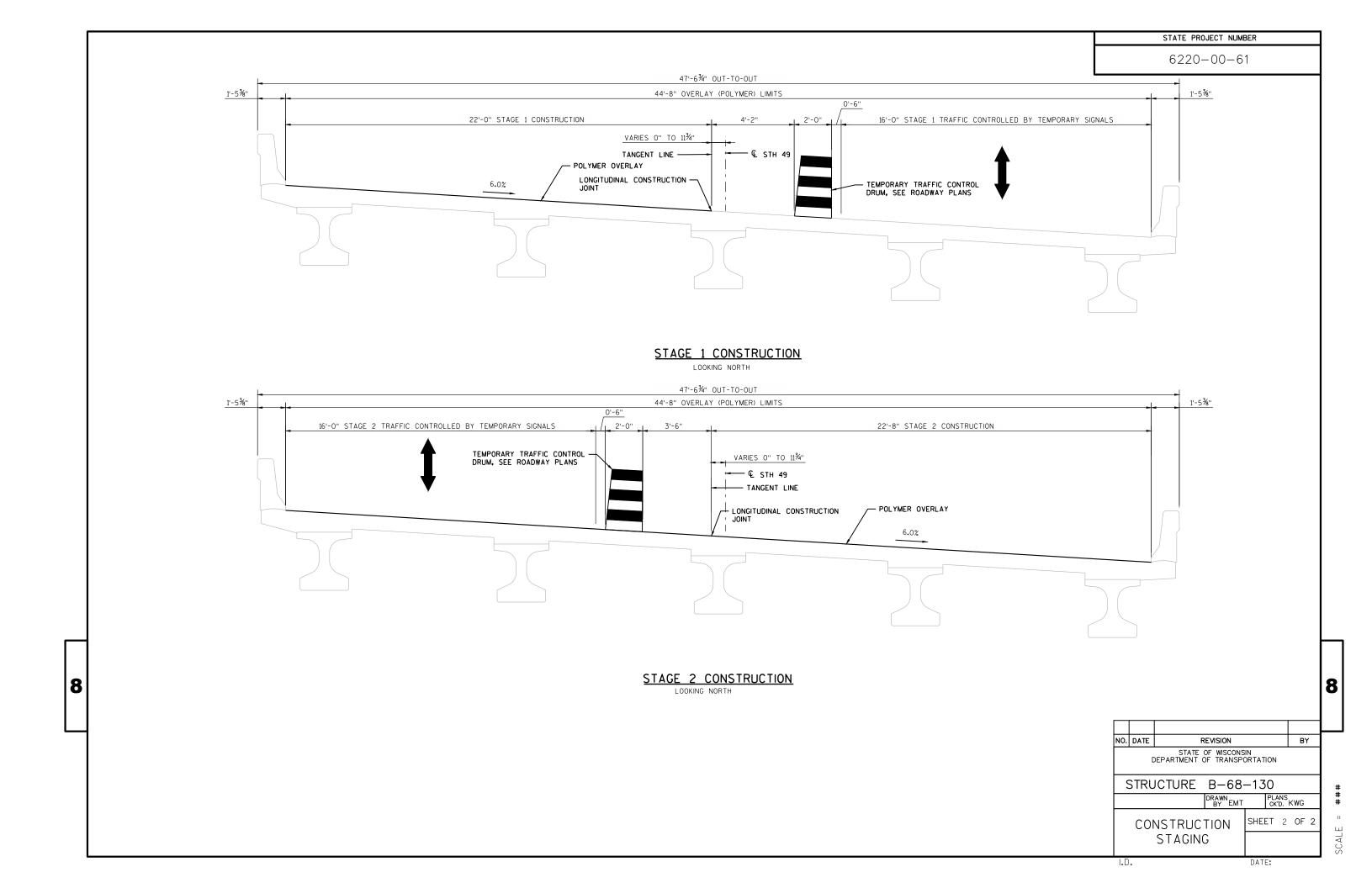
LOOKING NORTH

	BY			REVISION	F	DATE	10.
		ION	SIN ORTAT	OF WISCONS OF TRANSPO	STATE DEPARTMENT ([
#	STRUCTURE B-68-117				(
# # #	KWG	PLANS CK'D.		DRAWN BY EMT			
= 3	OF 2	ΞT 2	SHE	TION	CONSTRUCTION STAGING		
SCALE				G			
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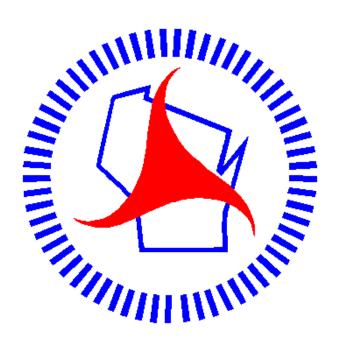








Notes



Wisconsin Department of Transportation

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