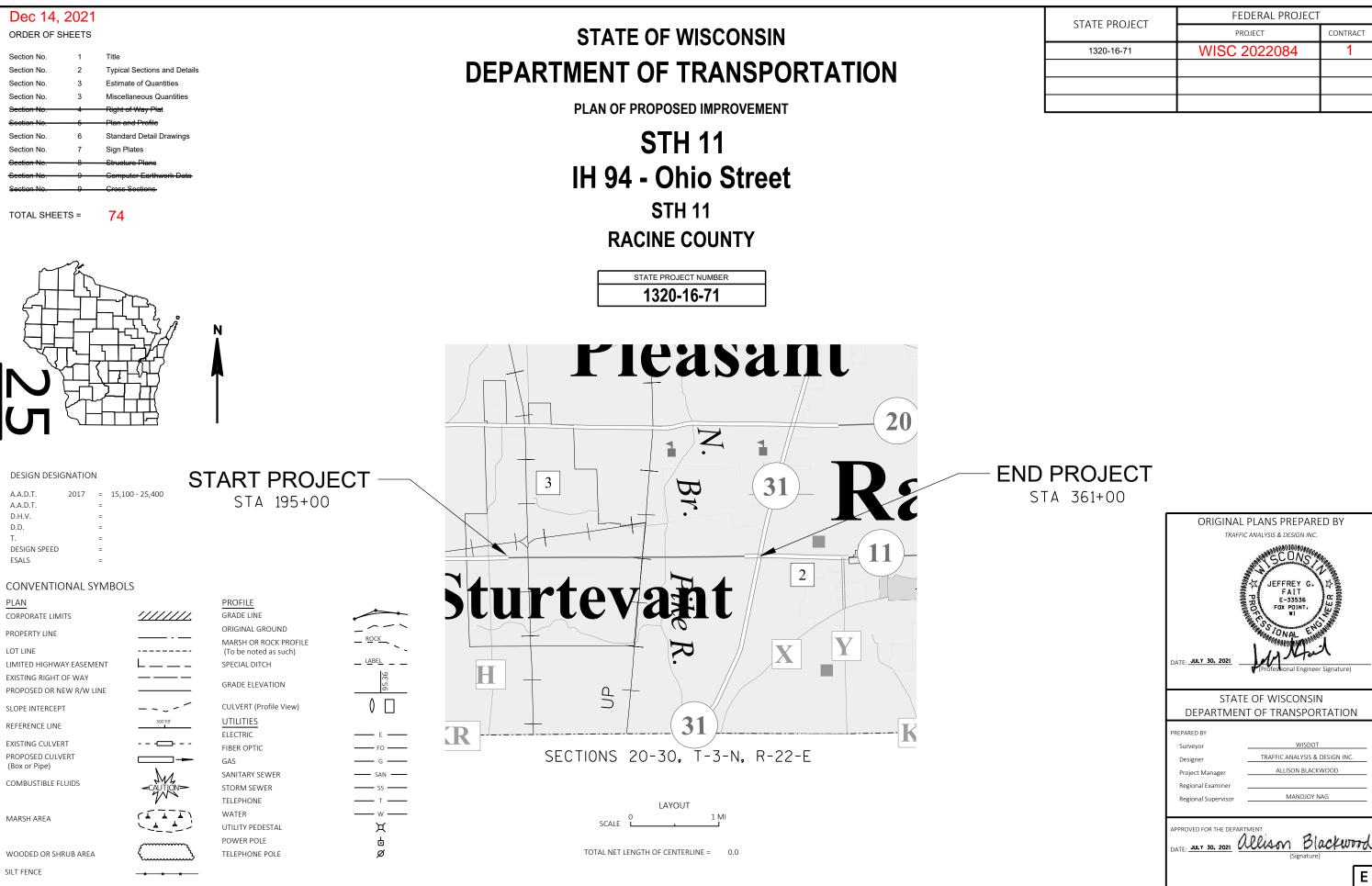
FILE NAME : Z:\SHARED\WI\2226-2 STH 11 CMAQ DESIGN\CAD\1320-16-71 STH 11 TITLE SHEET.DWG



9/11/2021 4:31 PM

GENERAL NOTES

- 1. NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.
- 2. ALL UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO CONSTRUCTION, NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
- 3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
- 4. THERE ARE DELINEATED WETLANDS IN THE PROJECT AREA, THE LOCATIONS ARE SHOWN IN THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOT DISTURBING THESE LOCATIONS.
- 5. DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED, AND MULCHED.
- 6. INSTALL HEAVY DUTY SILT FENCE WHERE WORK WILL BE WITHIN 30' OF WETLANDS BOUNDARY.
- 7. USE EROSION CONTROL MAT WITHOUT FERTILIZER FOR RESTORATION WHEN WORK IS COMPLETE WITHIN 30' OF WETLANDS BOUNDARY.
- 8. INLET PROTECTION REQUIRED ON SIDE OF STREET WHERE WORK IS BEING PERFORMED.
- 9. CONTRACTOR SHALL PROTECT SECTION CORNER AND WITNESS TIES AT CTH H AND 90TH STREET.

UTILITIES

AT&T LOCAL NETWORK - COMMUNICATION LINE DALE DEFEVER 39869 LINN ST CANTON MI 48147 (586) 242-2671 DD2579@ATT.COM

CC: J.NAVARRO@NORTHWINDTECH.COM

ATC MANAGEMENT, INC. - ELECTRICITY-TRANSMISSION CHRIS DAILEY P.O. BOX 47 WAUKESHA, WI 53187 262-506-6884 CDAILEY@ATCLLC.COM

VERIZON BUSINESS - COMMUNICATION LINE RJ CICATELLO JR. 15725 WEST RYERSON ROAD NEW BERLIN, WI 53151

RANDY.CICATELLO@VERIZON.COM

MIDWEST FIBER NETWORKS LLC - COMMUNICATION LINE CORY SCHMUKI 6070 N FLINT RD GLENDALE, WI 53209 WORK: 414-459-3561 MOBILE: 414-349-2764

FILE NAME :

CSCHMUKI@MIDWESTFIBERNETWORKS.COM

PAETEC COMMUNICATIONS, LLC - COMMUNICATION LINE 314 N DANZ AVE GREEN BAY, WI 54302-3526

414-274-9215 LORI.KETTER@WINDSTREAM.COM

AT&T WISCONSIN - COMMUNICATION LINE MIKE VANBOVEN 411 7TH STREET RACINE, WI 53403 (262) 676-3958 MV3658@ATT.COM

LEVEL 3 COMMUNICATIONS LLC - COMMUNICATION LINE BRAHIM GADDOUR 3235 INTERTECH DR. SUITE 600 BROOKFIELD, WI 53045

WORK: 414-908-1027 MOBILE: 414-704-1026 BRAHIM GADDOUR@LUMEN COM

VILLAGE OF STURTEVANT - SEWER JACK FEINER 2801 89TH STREET STURTEVANT, WI 53177 WORK: 262-886-7202 MOBILE: 262-997-0738 FEINERJ@STURTEVANT.WI.GOV

MOUNT PLEASANT STORM WATER DIST. 1 - SEWER LINDSEY WEBER 8811 CAMPUS DR MOUNT PLEASANT, WI 53406 (262) 664-7833 LWEBER@MTPLEASANTWI.GOV

> RACINE WATER WORKS COMMISSION - WATER CHAD REGALIA 100 HUBBARD ST RACINE, WI 53402 262-497-4611 CHAD.REGALIA@CITYOFRACINE.ORG

ROGERS TELECOM - COMMUNICATION LINE KEITH JACKSON 4804 N. 40TH STREET SHEBOYGAN, WI 53083 WORK: 920-395-7121 MOBILE: 920-889-9905 KJACKSON@GABES.COM

SPRINT COMMUNICATIONS CO LP - COMMUNICATION LINE DAN HILLIARD 849 FARL ST SAINT PAUL MN 55106 (612) 217-3526 DAN.J.HILLIARD@T-MOBILE.COM

WISCONSIN DEPARTMENT OF TRANSPORTATION - STREET LIGHTING ERIC PEREA
141 NW BARSTOW STREET WAUKESHA, WI 53188 (262) 574-5422 ERIC.PEREA@DOT.WI.GOV

TDS METROCOM LLC - COMMUNICATION LINE MATTHEW SCHULTE

VILLAGE OF MOUNT PLEASANT - SEWER

LINDSEY WEBER

8811 CAMPUS DR

(262) 664-7833

BEAU ABUYA

(414) 908-1343

525 JUNCTION ROAD

MADISON, WI 53717

(262) 754-3063

MILWAUKEE, WI 53212

MOUNT PLEASANT, WI 53406

LWEBER@MTPLEASANTWI.GOV

SPECTRUM - COMMUNICATION LINE

WIS ENGINEERING@CHARTER.COM

MATT.SCHULTE@TDSTELECOM.COM

1320 N DR MARTIN LUTHER KING JR DR

WE ENERGIES - ELECTRICITY JAMES NELSON 7815 NORTHWESTERN AVE RACINE, WI 53406 WORK: 262-884-6740 MOBILE: 414-315-1189

WE ENERGIES - GAS/PETROLEUM CHRIS DEGRAVE 7815 NORTHWESTERN AVE RACINE, WI 53406 WORK: 262-886-7018 MOBILE: 262-939-9814

DNR

BENTON STELZEL SOUTHEAST REGION TRANSPORTATION LIAISON DNR SOUTHEAST REGION HEADQUARTERS 2300 N. DR. MARTIN LUTHER KING JR. DRIVE MILWAUKEE, WI 53212 BENTON.STELZEL@WISCONSIN.GOV

WISCONSIN DEPARTMENT OF TRANSPORTATION - TRAFFIC SIGNALS DERRIN WOLFORD 141 NW BARSTOW STREET WAUKESHA, WI 53188

(262) 521-4409 DERRIN.WOLFORD@DOT.WI.GOV

WISCONSIN DEPARTMENT OF TRANSPORTATION - ELECTRICAL FIELD UNIT 935 S. 60TH STREET WEST ALLIS, WI 53214 414-266-1170



Ε PROJECT NO: 1320-16-71 HWY: STH 11 COUNTY: RACINE **GENERAL NOTES SHEET**

Z:\SHARED\WI\2226-2 STH 11 CMAQ DESIGN\CAD\1320-16-71 STH 11 TITLE SHEET.DWG LAYOUT NAME - General Notes

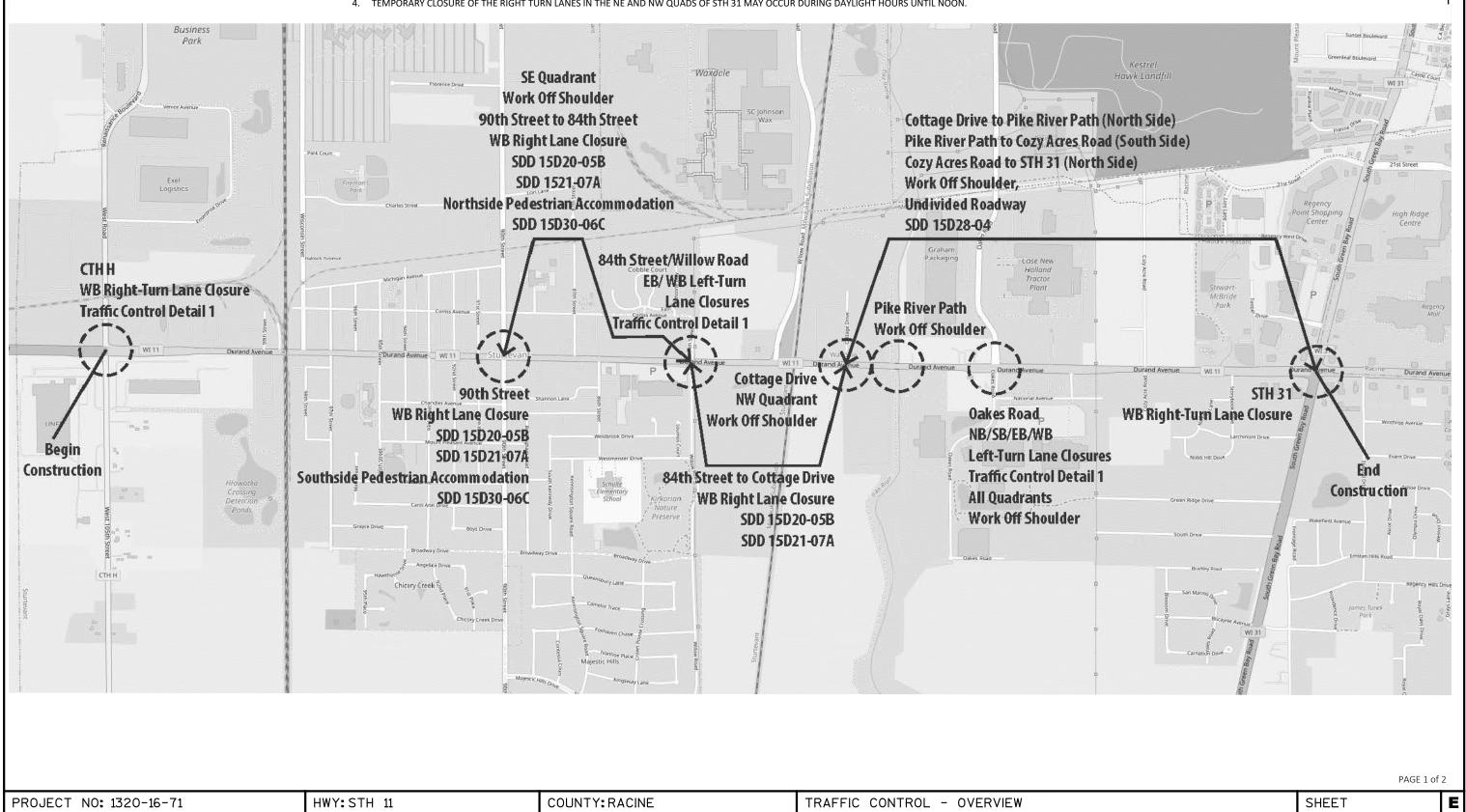
7/29/2021 4:24 PM PLOT BY: JEFF FAIT

PLOT NAME

PLOT SCALE :

1"= 40

- NOTES
 1. WORK OFF SHOULDER REQUIRES WORK VEHICLE WITH AN ACTIVATED 360 DEGREE FLASHING BEACON.
- 2. TEMPORARY CLOSURE OF LEFT AND RIGHT TURN LANES MAY OCCUR BETWEEN THE HOURS OF 9 AM AND 3 PM, EXCEPT FOR AT THE INTERSECTION OF STH 11 AND STH 31, WHERE CLOSURES MAY OCCUR DURING DAYLIGHT HOURS UNTIL NOON.
- 3. TEMPORARY CLOSURES OF THE WB RIGHT THROUGH LANE MAY OCCUR DURING DAYLIGHT HOURS WEST OF COTTAGE DRIVE. TEMPORARY CLOSURES OF THE EB RIGHT THROUGH LANE MAY OCCUR DURING DAYLIGHT HOURS EXCEPT 2 PM TO 6 PM.
- TEMPORARY CLOSURE OF THE RIGHT TURN LANES IN THE NE AND NW QUADS OF STH 31 MAY OCCUR DURING DAYLIGHT HOURS UNTIL NOON



OPTIONAL OPTIONAL **Divided Roads** All Roads

TURN LANE CLOSURES

3 DAYS OR LESS

THIS DETAIL APPLIES TO THE FOLLOWING LOCATIONS:

Location	Speed	Work Area	Signal	Closure	Α	G	
Location	Limit	WOIK AIEa	Component	Type	_ ^	יכ	_
		WB - NE Pork					
CTH H/105th	45	Chop	Antenna	WB Rt	500 ft	50 ft	540 ft
			Cameras (V1,				
84th/Willow - West Leg	40	Median Island	V4)	WB Lt	350 ft	25 ft	320 ft
			Cameras (V2,				
84th/Willow - East Leg	40	Median Island	V3)	EB Lt	350 ft	25 ft	320 ft
			Cameras &				
			Signal Heads				
Oakes - West Leg	40	Median Island	(V1 et al)	EB Lt	350 ft	25 ft	320 ft
			Cameras &				
			Signal Heads				
Oakes - East Leg	40	Median Island	(V2 et al)	WB Lt	350 ft	25 ft	320 ft
			Signal Heads				
Oakes - South Leg	25	Median Island	(8, 15, 24)	NB Lt	200 ft	25 ft	125 ft
			Signal Heads (7,				
Oakes - North Leg	25	Median Island	16, 20)	SB Left	200 ft	25 ft	125 ft
STH 31 - East Leg	40	NE Quadrant	Buried Conduit	WB Rt	350 ft	25 ft	320 ft
STH 31 - North Leg	35	NW Quadrant	Buried Conduit	SB Rt	350 ft	25 ft	245 ft
STH 31 - West Leg	40	Behind Curb	Buried Conduit	WB Rt	350 ft	25 ft	320 ft



W20-1A, 48"X48"



R3-1, 36"X36"



R11-2L, 48"X30"



R3-4, 36"X36"



R3-2, 36"X36"



G20-2A, 48"X24"

- NOTES

 1. SEE TRAFFIC CONTROL OVERVIEW SHEET FOR USAGE OF SDDS AT ALL OTHER PROJECT LOCATIONS.
- 2. TURN PROHIBITION SIGNS ARE REQUIRED IF TURNS ARE PROHIBITED.
- 3. END ROAD WORK SIGN SHOULD BE PLACED 500 FEET PAST WORK AREA.
- 4. OPTIONAL TYPE III BARRICADES ARE NOT REQUIRED.

PAGE 2 of 2

E

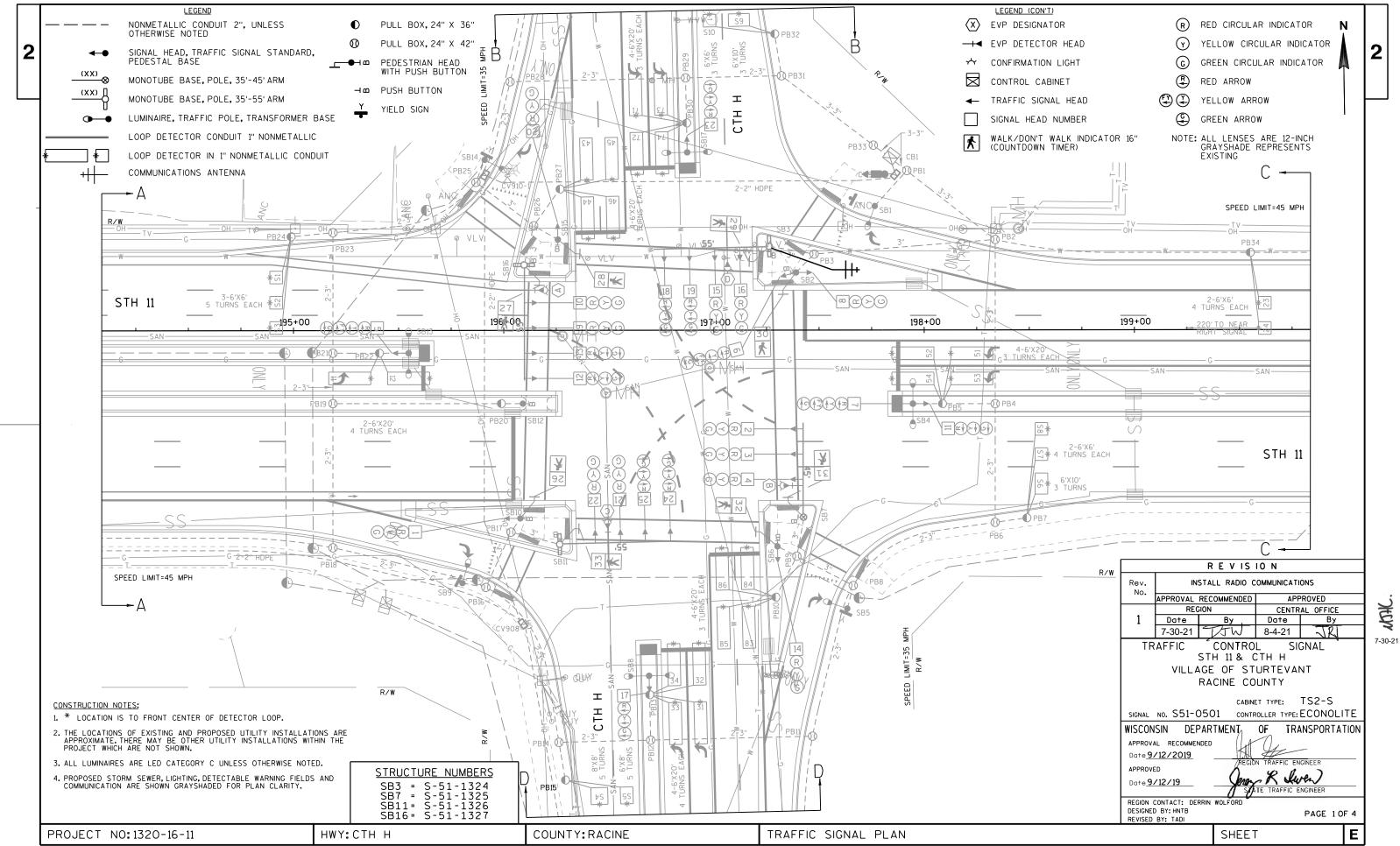
PROJECT NO: 1320-16-71

HWY: STH 11

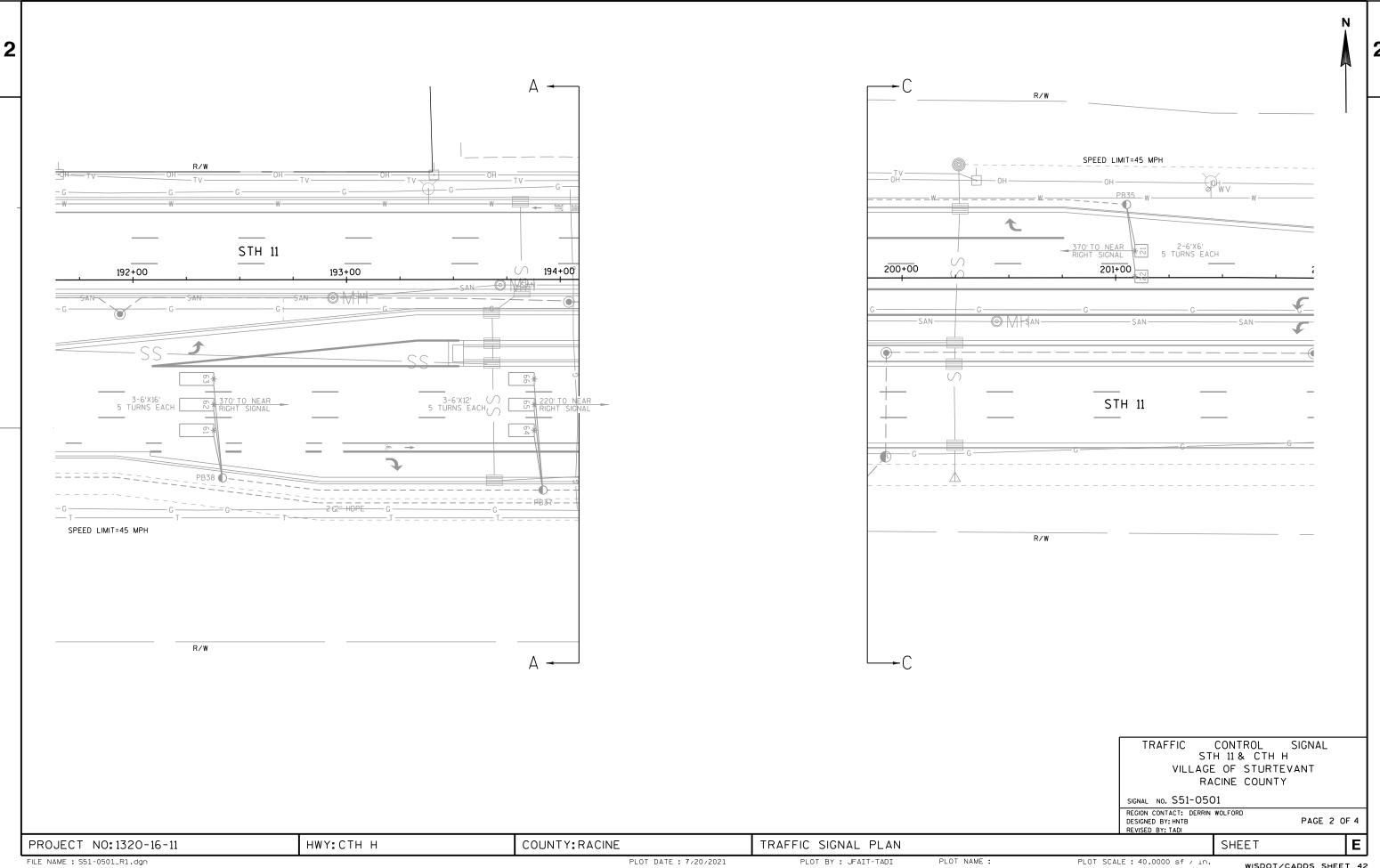
COUNTY: RACINE

TRAFFIC CONTROL - DETAIL 1 PLOT BY : JEFF FAIT

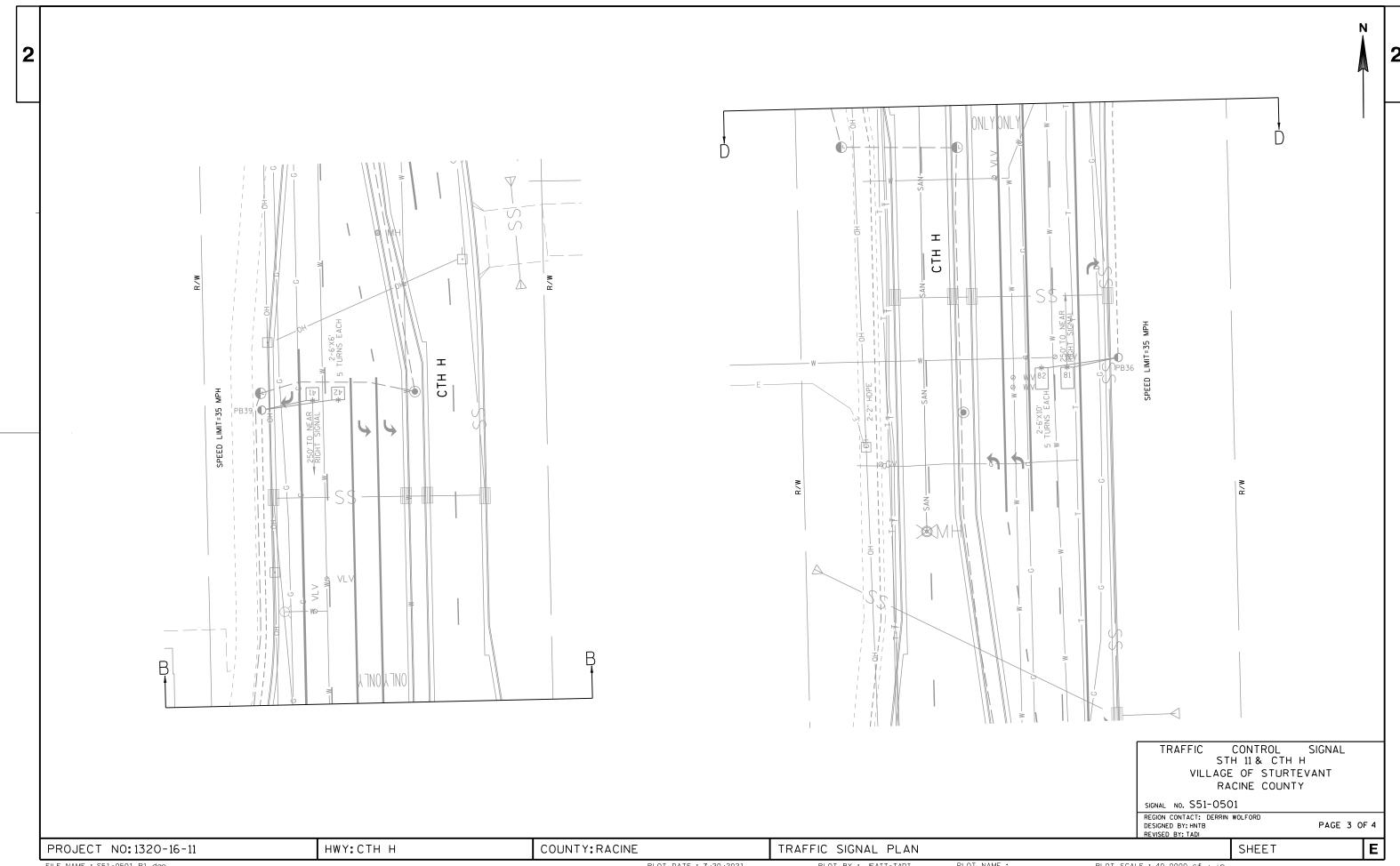
SHEET



FILE NAME: S51-0501_R1.dgn PLOT BY: JFAIT-TADI PLOT NAME: PLOT SCALE: 40.0000 sf / in. WISDOT/CADDS SHEET 42

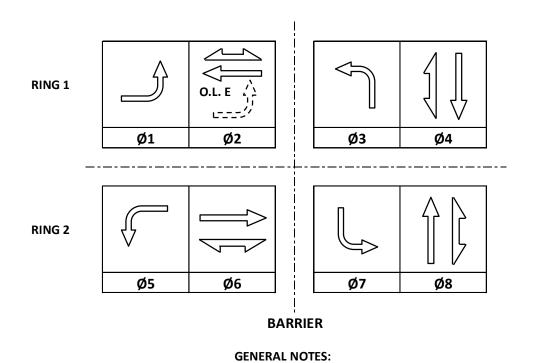


WISDOT/CADDS SHEET 42



FILE NAME: S51-0501_R1.dgn PLOT BY: JFAIT-TADI PLOT NAME: PLOT SCALE: 40.0000 sf / in. wisdot/cadds sheet 42

		F
		L
	HEAD	Α
	NUMBERS	S
	NUIVIDERS	Н
Ø1	5,6,7	R ←
Ø2	8,9,10	R
ØЗ	17,18,19	R ←
Ø4	20,21,22	R
Ø5	11,12,13	₽
Ø6	1,2,3,4	R
Ø7	23,24,25	₽
Ø8	14,15,16	R
Ø2P	28,29	
Ø4P	26,27	
Ø6P	32,33	
Ø8P	30,31	
OLE	5,6,7	-
OLF		
OLG		
OLH		



1. PHASES 3 AND 7 ARE IN CONFLICT AND NOT ALLOWED TO TIME

CONCURRENTLY.

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		Х
2	Х	6	MIN	Х
3		8		Х
4		8		Х
5		2		Х
6	Х	2	MIN	Х
7		4		Х
8		4		Х

SIGNAL SYSTEM NO:	SS-
TYPE OF LIG	HTING
BY OTHER AGENCY	
IN TRAFFIC CABINET)
IN SEPARATE DOT LIGHTING	CABINET

TYPE OF COORDINATION

NONE CLOSED LOOP

RADIO CELL MODEM

NONE TBC

TWISTED PAIR

FIBER OPTIC*
FIBER OPTIC (ETHERNET)

TRAFFIC RESPONSIVE ADAPTIVE

*LOCATION OF MASTER CONTROLLER NO:

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	Х
GTT	
TOMAR	Х
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	Х
LIFT BRIDGE	
QUEUE DETECTION	

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	Α	В	с	D
MOVEMENT	13		V	7
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.

AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

DETECTOR LOGIC

N

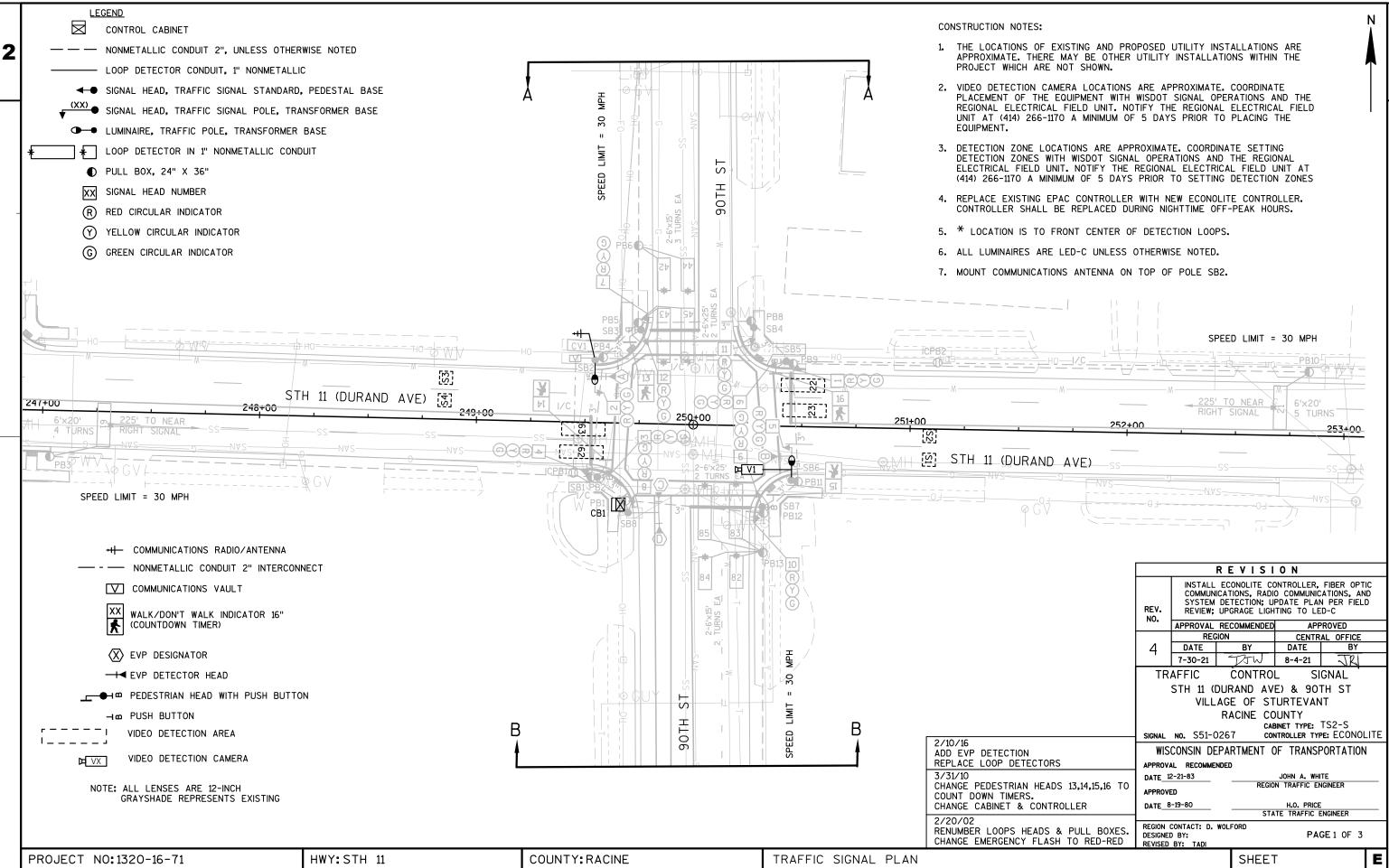
_								
DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	21	23	31	33	41	43	45
CALLED PHASE	1	2	2	3	3	4	4	4
CALL OPTION	Х	Х	Х	Х	Х		Х	Х
DELAY TIME								
EXTENTION OPTION	Х	Х	Х	Х	Х	Х	Х	Х
EXTEND TIME						Х		
USE ADDED INITIAL		Х	Х					
CROSS SWITCH PHASE	2							
_								
DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	22	24	32	34	42	44	46
CALLED PHASE	1	2	2	3	3	4	4	4
CALL OPTION	Х	Х	Х	Х	Х		Х	Х
DELAY TIME								
EXTENTION OPTION	Х	Х	Х	Х	Х	Х	Х	Х
EXTEND TIME	•					Х		
USE ADDED INITIAL	•	Х	Х					
CROSS SWITCH PHASE	2							

19	17	23	21	27	25	31	29
51	53	61	63	65	71	73	81
5	5	6	6	6	7	7	8
X	X	х	х	Х	X	X	Ŭ
Х	х	х	х	х	х	х	Х
							Х
		Х	Х	Х			
20	18	24	22	28	26	32	30
52	54	62	64	66	72	74	82
5	5	6	6	6	7	7	8
Х	Х	Х	Х	Х	Х	Х	
	Х	Х	Х	Х	Х	Х	Х
Х							
Х							Х

35	33	39	37	43	41	47	45	DETECTOR INPUT
83	85	S1	S3	S5	S7	S9		PLAN LOOP DETECTOR*(S)
8	8							CALLED PHASE
Х	Х							CALL OPTION
								DELAY TIME
Х	Х							EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE
36	34	40	38	44	42	48	46	DETECTOR INPUT
84	86	S2	S4	S6	S8	S10		PLAN LOOP DETECTOR*(S)
8	8							CALLED PHASE
Х	Х							CALL OPTION
								DELAY TIME
Х	Х							EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

	STI	H 11 & CTH H
	VILLAGE	OF STURTEVANT
	RA	CINE COUNTY
SIGNAL NO:	S51-0501	CABINET TYPE: TS2-S
		CONTROLLER TYPE: ECONOLITE
DATE:	6/2021	PAGE NUMBER: 4 OF 4

COUNTY: RACINE PROJECT NO: 1320-16-71 HWY: STH 11 **SEQUENCE OF OPERATIONS** SHEET NO:



90TH

90TH

TRAFFIC CONTROL STH 11 (DURAND AVE) & 90TH ST VILLAGE OF STURTEVANT RACINE COUNTY

SIGNAL NO. S51-0267

REGION CONTACT: D. WOLFORD DESIGNED BY: REVISED BY: TADI

PAGE 2 OF 3

PROJECT NO:1320-16-71

HWY:STH 11

COUNTY: RACINE

TRAFFIC SIGNAL PLAN

PLOT BY : JEFF FAIT

SHEET E

DETECTOR INPUT

CALLED PHASE

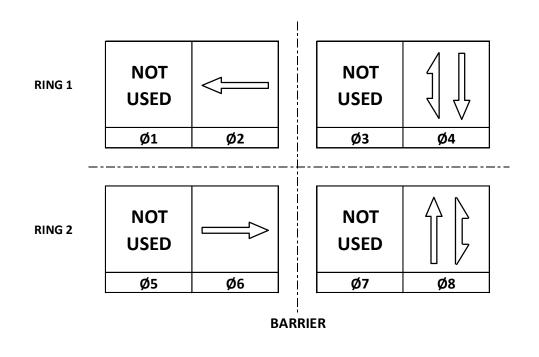
PLAN LOOP DETECTOR*(S)

3

42

OLC

OLD



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
2	Х	6	MIN	Х
3				
4		8		Х
5				
6	X	2	MIN	X
7				
8		4		X

*LOCATION OF MASTER	
CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS- 51-020
TYPE OF LIGHTING	
TYPE OF LIGHTING BY OTHER AGENCY	
	x

TYPE OF INTERCONNECT/COMMUNICATION

TYPE OF COORDINATION

Х

CLOSED LOOP

FIBER OPTIC*

CELL MODEM

RADIO

NONE

ADAPTIVE

LIFT BRIDGE

QUEUE DETECTION

TBC

TWISTED PAIR

FIBER OPTIC (ETHERNET)

TRAFFIC RESPONSIVE

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	Х
GTT	х
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	А	В	С	D
MOVEMENT	₩	\	\	\
PHASE	2+6	6+2	4+8	8+4

AFTER PREEMPTION SEQUENCE 2+6 OR 6+2, CONTROLLER SHALL RETURN TO PHASES 2+6.

AFTER PREEMPTION SEQUENCE 4+8 OR 8+4, CONTROLLER SHALL RETURN TO PHASES 4+8.

DETECTOR LOGIC

CALL OPTION	Х	Х	Х	Х	Х	Х		
DELAY TIME		Х			Х			
EXTENTION OPTION	Х	Х	Х	Х	Х	Х		
EXTEND TIME								
USE ADDED INITIAL	Х			Х				
CROSS SWITCH PHASE								
DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	41	43	45	81	83	85		
CALLED PHASE		_		_				
CALLED I HASE	4	4	4	8	8	8		
CALL OPTION	4	4 X	Д Х	8	8 X	X		
ŀ	4	_		8				
CALL OPTION	X	Х	Х	X	Х	Х		
CALL OPTION DELAY TIME	-	X	X X	-	X	X		
CALL OPTION DELAY TIME EXTENTION OPTION	Х	X	X X	Х	X	X		

44

5

61

6

11

82

9

84

15

13

17	19	21	23	25	27	29	31	DETECTOR INPUT
22	62	S1	S3					PLAN LOOP DETECTOR*(S)
								CALLED PHASE
								CALL OPTION
								DELAY TIME
								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

N

18	20	22	24	26	28	30	32	DETECTOR INPUT
23	63	S2	S4					PLAN LOOP DETECTOR*(S)
								CALLED PHASE
								CALL OPTION
								DELAY TIME
								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

STH 11 (DURAND AVE) & 90TH ST

VILLAGE OF STURTEVANT

RACINE COUNTY

SIGNAL NO: S51-0267 CABINET TYPE: TS2-S

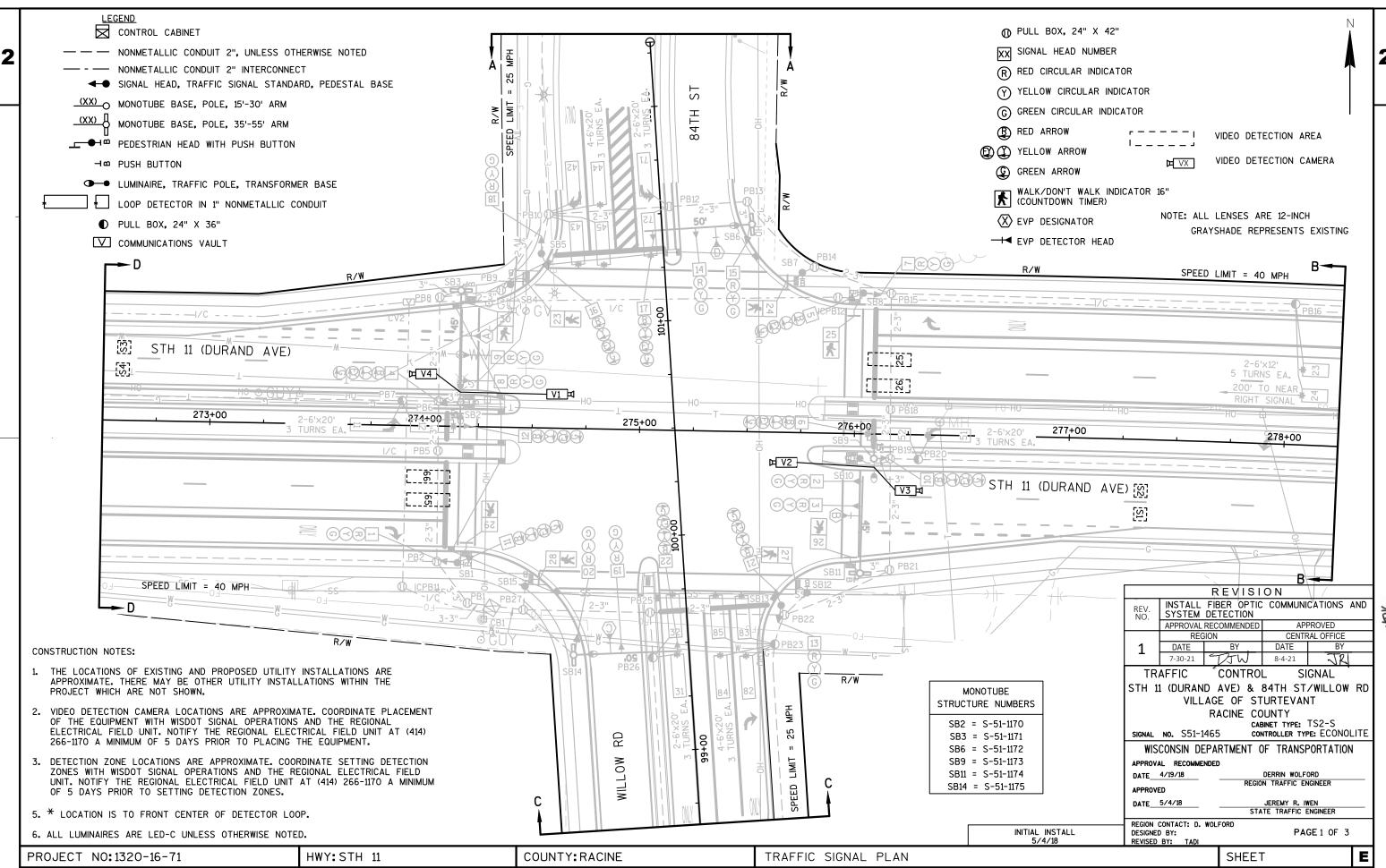
CONTROLLER TYPE: ECONOLITE

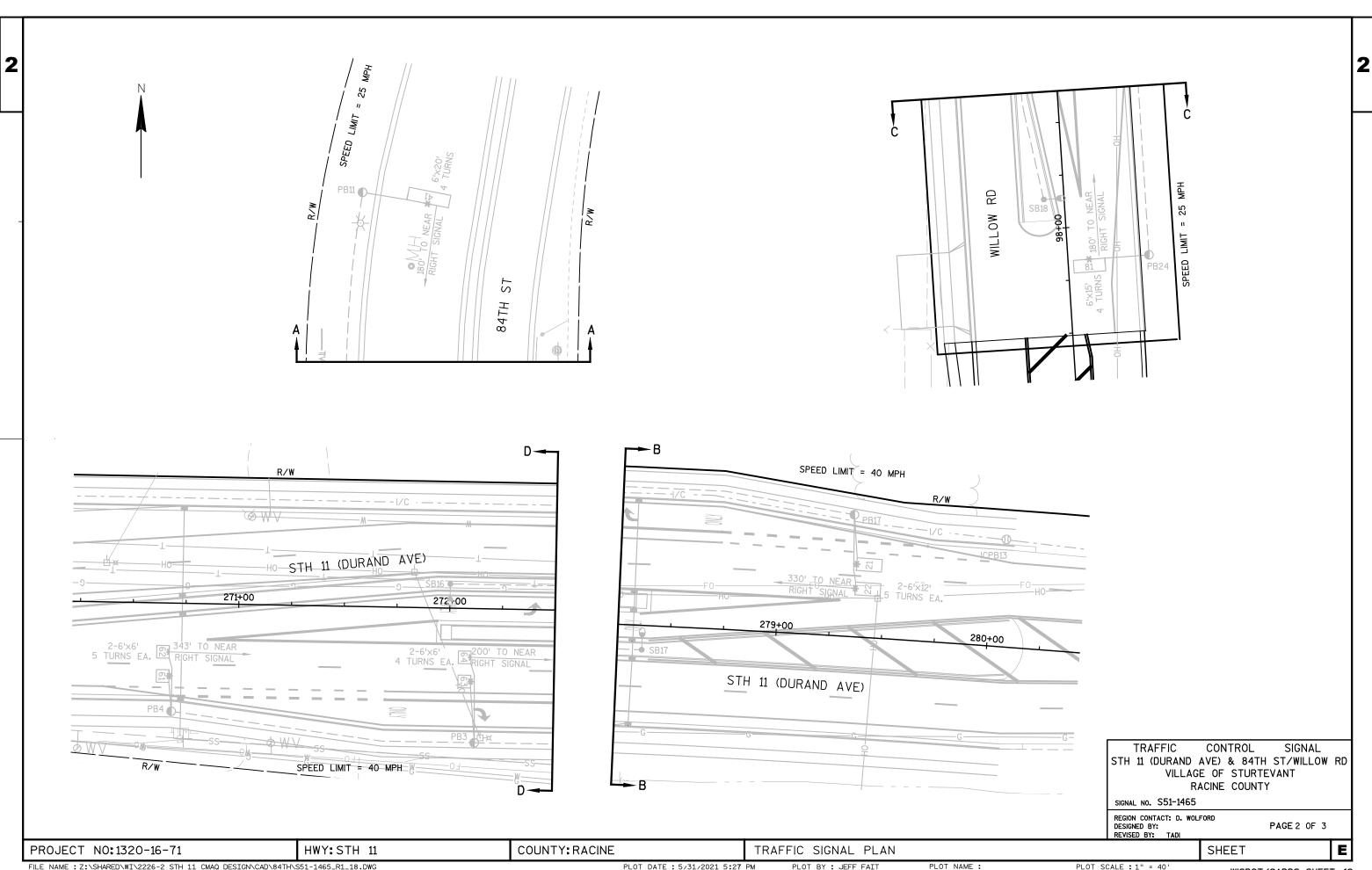
DATE: 6/2021 PAGE NUMBER: 3 OF 3

SHEET NO:

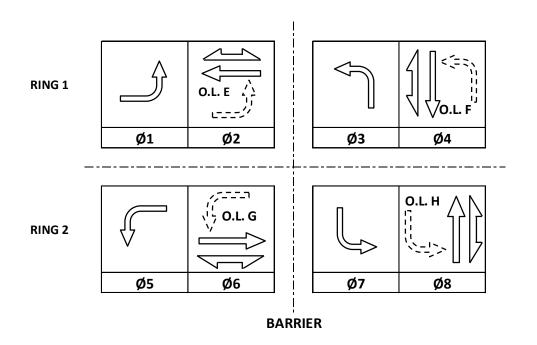
PROJECT NO: 1320-16-71 HWY: STH 11 COUNTY: RACINE SEQUENCE OF OPERATIONS

FLE NAME: ZISharedWW1226-2 STH 11 CMAQ DesignICAD/90/thlSQO/IS2-S FYA ABCD Econolite SEQXLSX PLOT DATE: 6/7/2021 PLOT NAME: TS2-S FYA ABCD Econolite SEQXLSX PLOT DATE: 1:1





		F
		L
	HEAD	Α
	NUMBERS	S
-4.		H
Ø1	4,5,6	R ←
Ø2	7,8,9	R
ØЗ	16,17	R ←
Ø4	18,19,20	R
Ø5	10,11,12	₽
Ø6	1,2,3	R
Ø7	21,22	₽
Ø8	13,14,15	R
Ø2P	23,24	
Ø4P	29,30	
Ø6P	27,28	
Ø8P	25,26	
OLE	4,5,6	-
OLF	16,17	-
OLG	10,11,12	-
OLH	21,22	-



GENERAL NOTES:

1. LEFT TURN PHASES ONLY TIME DURING EVP OPERATIONS. AT ALL OTHER TIMES, LEFT TURNS ARE PERMITTED ONLY.

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W/Ø	PHASE RECALL	PHASE ACTIVE
1		6		Х
2	х	6	MIN	Х
3		8		Х
4		8		Х
5		2		Х
6	Х	2	MIN	Х
7		4		Х
8		4		X

EMERGENCY	VEHICLE	DREEMDTIO	N SEOUENCE

EMERGENCY VEHICLE PREEMPTOR	А	В	С	D
MOVEMENT	V 3			1.71
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.

AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

39

25 65

37

43

TYPE OF INTERCONNECT/COM	IMUNICATION
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	Х
RADIO	
CELL MODEM	

TYPE OF COORD	INATION
NONE	
твс	
TRAFFIC RESPONSIVE	х
ADAPTIVE	х
*LOCATION OF MASTER	
CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS- 51-0201

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	Х
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	Х
GTT	
TOMAR	Х
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

_								
DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	21	23	31	41	43	45	51
CALLED PHASE	1	2	2	3	4	4	4	5
CALL OPTION	Х	Х	Х	Х		Х	Х	Х
DELAY TIME						Х		
EXTENTION OPTION	Х	Х	Х	Х	Х	Х	Х	Х
EXTEND TIME	•				Х			
USE ADDED INITIAL	•	Х	Х					
CROSS SWITCH PHASE	2			4				6
_								
DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	22	24	32	42	44		52
CALLED PHASE	1	2	2	3	4	4		5
CALL OPTION	Х	Х	Х	Х	Х	Х		Х
DELAY TIME					Х			
EXTENTION OPTION	Х	Х	Х	Х	Х	Х		Х
EXTEND TIME								
USE ADDED INITIAL		Х	Х					
CROSS SWITCH PHASE	2			4				6

19	17	23	21	27	25	31	29
61	63	71	81	83	85		
6	6	7	8	8	8		
Х	Х	Х		Х	Х		
				Х			
Х	X	Х	Х	Х	Х		
			Х				
Х	Х						
		8					
20	18	24	22	28	26	32	30
62	64	72	82	84			
6	6	7	8	8			
Х	Х	Х	Х	Х			
			Х				
Х	Х	Х	Х	Х			
Х	Х						
		8	-				

								_
								CALLED PHASE
								CALL OPTION
								DELAY TIME
								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE
					•			
36	34	40	38	44	42	48	46	DETECTOR INPUT
26	66	S2	S4					PLAN LOOP DETECTOR*(S)
								CALLED PHASE
								CALL OPTION
								DELAY TIME
								DELAY TIME
								DELAY TIME EXTENTION OPTION

41

47

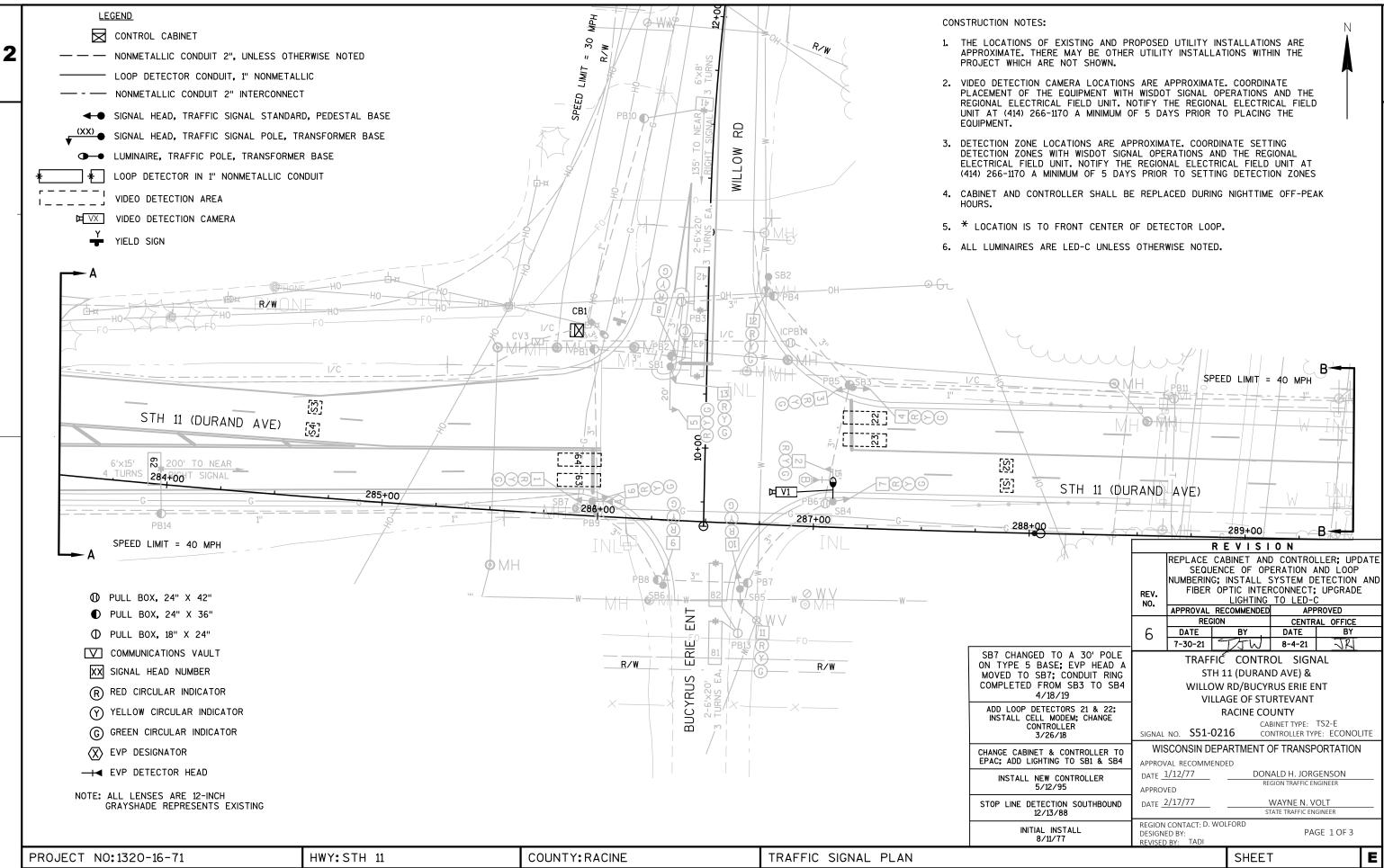
45 DETECTOR INPUT

PLAN LOOP DETECTOR*(S)

STH 11 (DURAND AVE) & 84TH ST/WILLOW RD VILLAGE OF STURTEVANT CABINET TYPE: TS2-S SIGNAL NO: S51-1465 CONTROLLER TYPE: ECONOLITE DATE: 5/2021 PAGE NUMBER: 3 OF 3

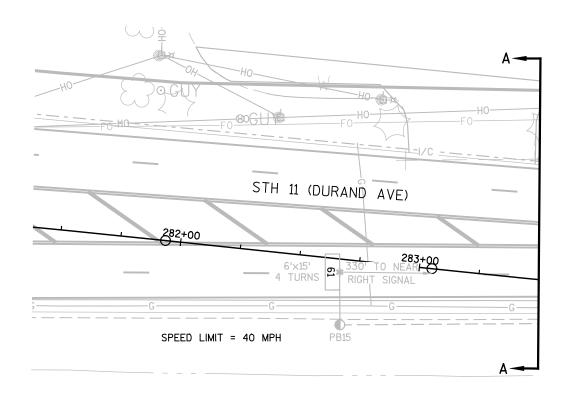
PROJECT NO: 1320-16-71 HWY: STH 11 **COUNTY: RACINE SEQUENCE OF OPERATIONS** SHEET NO:

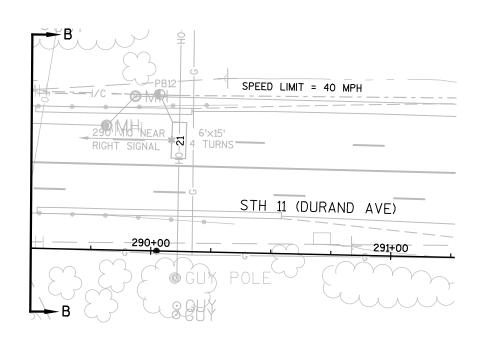
Ν



2







TRAFFIC CONTROL SIGNAL
STH 11 (DURAND AVE) &
WILLOW RD/BUCYRUS ERIE ENT
VILLAGE OF STURTEVANT
RACINE COUNTY

SIGNAL NO. **S51-0216**

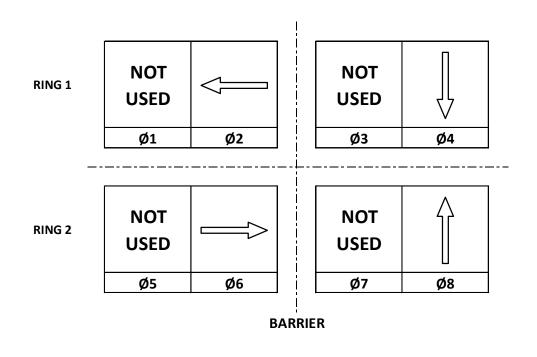
REGION CONTACT: D. WOLFORD DESIGNED BY: REVISED BY: TADI

PAGE 2 OF 3

PROJECT NO:1320-16-71 HWY:STH 11 COUNTY:RACINE TRAFFIC SIGNAL PLAN

SHEET

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15

13

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
2	Х	6	MIN	Х
3				
4		8		Х
5				
6	Х	2	MIN	Х
7				
8		4		Х

E	MERGENCY	VEHICLE	PREEMP1	TION SE	OUENCE

EMERGENCY VEHICLE PREEMPTOR	А	В	С
MOVEMENT	*	\	↓ ↑
PHASE	2+6	6+2	4+8

AFTER PREEMPTION SEQUENCE 2+6 OR 6+2, CONTROLLER SHALL RETURN TO PHASES 2+6.

AFTER PREEMPTION SEQUENCE4+8, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF INTERCONNECT/COM	MUNICATION
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	Х
RADIO	
CELL MODEM	

TYPE OF COORD	INATION
NONE	
твс	
TRAFFIC RESPONSIVE	Х
ADAPTIVE	х
*LOCATION OF MASTER	
CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS- 51-0201

TYPE OF LIGHTING	
BY OTHER AGENCY	Х
IN TRAFFIC CABINET	Х
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT					
Х					
Х					

DETECTOR LOGIC

PLAN LOOP DETECTOR*(S)	21	42	61	81				
CALLED PHASE	2	4	6	8				
CALL OPTION	Х	Х	Х	Х				
DELAY TIME				Х				
EXTENTION OPTION	Х	Х	Х	Х				
EXTEND TIME								
USE ADDED INITIAL	Х		Х					
CROSS SWITCH PHASE								
DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	41	43	62	82				
CALLED PHASE	4	4	6	8				

X

11

	I L	
14		
	ŀ	
	-	
	<u> </u>	

19	17	23	21	27	25	31	29	DETECTOR INPUT
63	22	S3	S1					PLAN LOOP DETECTOR*(S
								CALLED PHASE
								CALL OPTION
								DELAY TIME
								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

N

								_
20	18	24	22	28	26	32	30	DETECTOR INPUT
64	23	S4	S2					PLAN LOOP DETECTOR*(S)
								CALLED PHASE
								CALL OPTION
								DELAY TIME
								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE
			!	l				_

STH 11 (DURAND AVE) & WILLOW RD/BUCYRUS ERIE ENT

VILLAGE O F STURTEVANT

RACINE COUNTY

SIGNAL NO: S51-0216 CABINET TYPE: TS2-S

CONTROLLER TYPE: ECONOLITE

DATE: 5/2021 PAGE NUMBER: 3 OF 3

PROJECT NO: 1320-16-71 HWY: STH11 COUNTY: RACINE SEQUENCE OF OPERATIONS SHEET NO: E

USE ADDED INITIAL

CROSS SWITCH PHASE

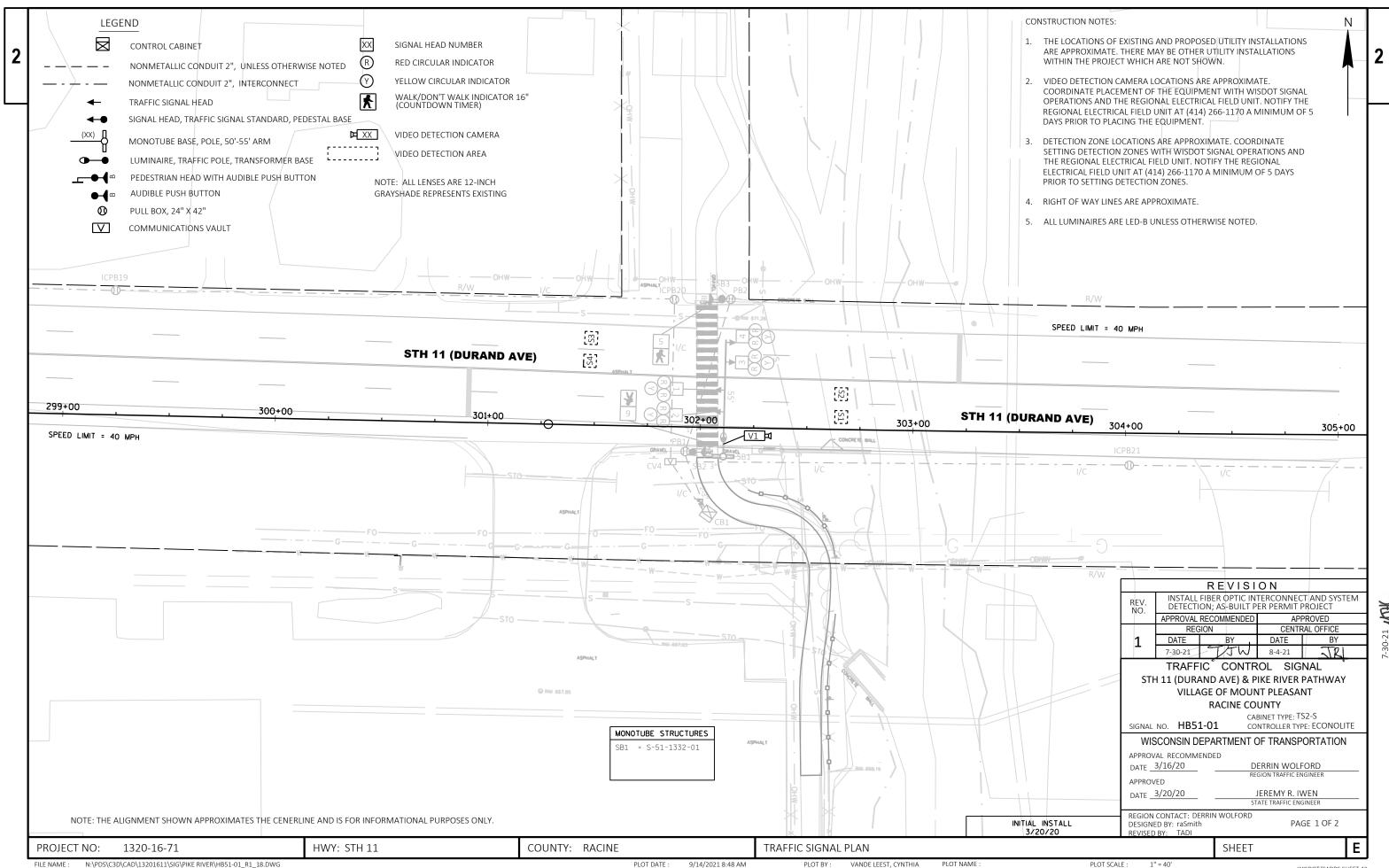
CALL OPTION

DELAY TIME

EXTENTION OPTION X

EXTEND TIME

DETECTOR INPUT 3



LAYOUT NAME - HB51-01_R1_pg1

CONTROLLER LOGIC

NOT **NOT** RING 1 **USED USED** Ø2 Ø4 Ø1 Ø3 **BARRIER**

DUAL PHASE PHASE PHASE PHASE **ENTRY** NUMBER LOCKING **RECALL ACTIVE** w/ø 2 PED X 3 Х 4 5 Х 7

TYPE OF INTERCONNECT/COMMUNIC	CATION
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	Х
RADIO	
CELL MODEM	

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	Х
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF COORD	INATION	
NONE		
ТВС		
TRAFFIC RESPONSIVE		Х
ADAPTIVE		Х
*LOCATION OF MASTER		
CONTROLLER NO:	S-	
SIGNAL SYSTEM NO:	SS-	51-0201

Figure 4F-3. Sequence for a Pedestrian Hybrid Beacon





Upon Activation





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4. Steady Red During Pedestrian Walk Interval



Pedestrian Clearance Interval



6. Dark Again Until Activated

SY Steady yellow FY Flashing yellow SR Steady red

Legend

FR Flashing red

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	S1	S3						
CALLED PHASE								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								
DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	S2	S4						
CALLED PHASE								
CALL OPTION								
DELAY TIME								
EXTENTION OPTION								
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

19	17	23	21	27	25	31	29	DETECTOR INPUT
								PLAN LOOP DETECTOR*(S)
								CALLED PHASE
								CALL OPTION
								DELAY TIME
								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE
20	18	24	22	28	26	32	30	DETECTOR INPUT
								PLAN LOOP DETECTOR*(S)
								CALLED PHASE
								CALL OPTION
								DELAY TIME
								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

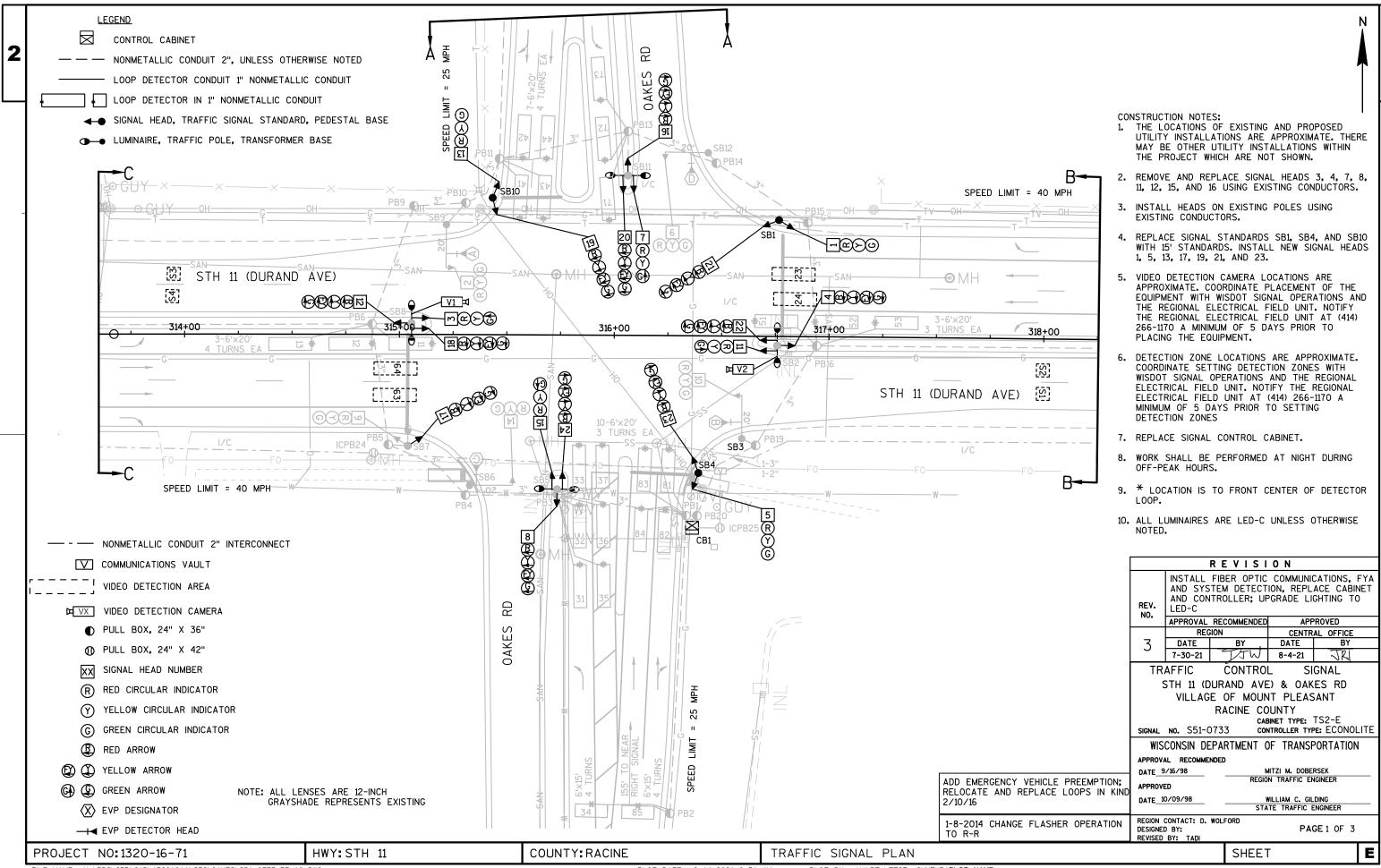
STH 11 (DURAND AVE) & PIKE RIVER PATHWAY VILLAGE OF MOUNT PLEASANT RACINE COUNTY CABINET TYPE: TS2-S SIGNAL NO: HB51-01 CONTROLLER TYPE: ECONOLITE PAGE NUMBER: 2 OF 2 DATE: 5/2021

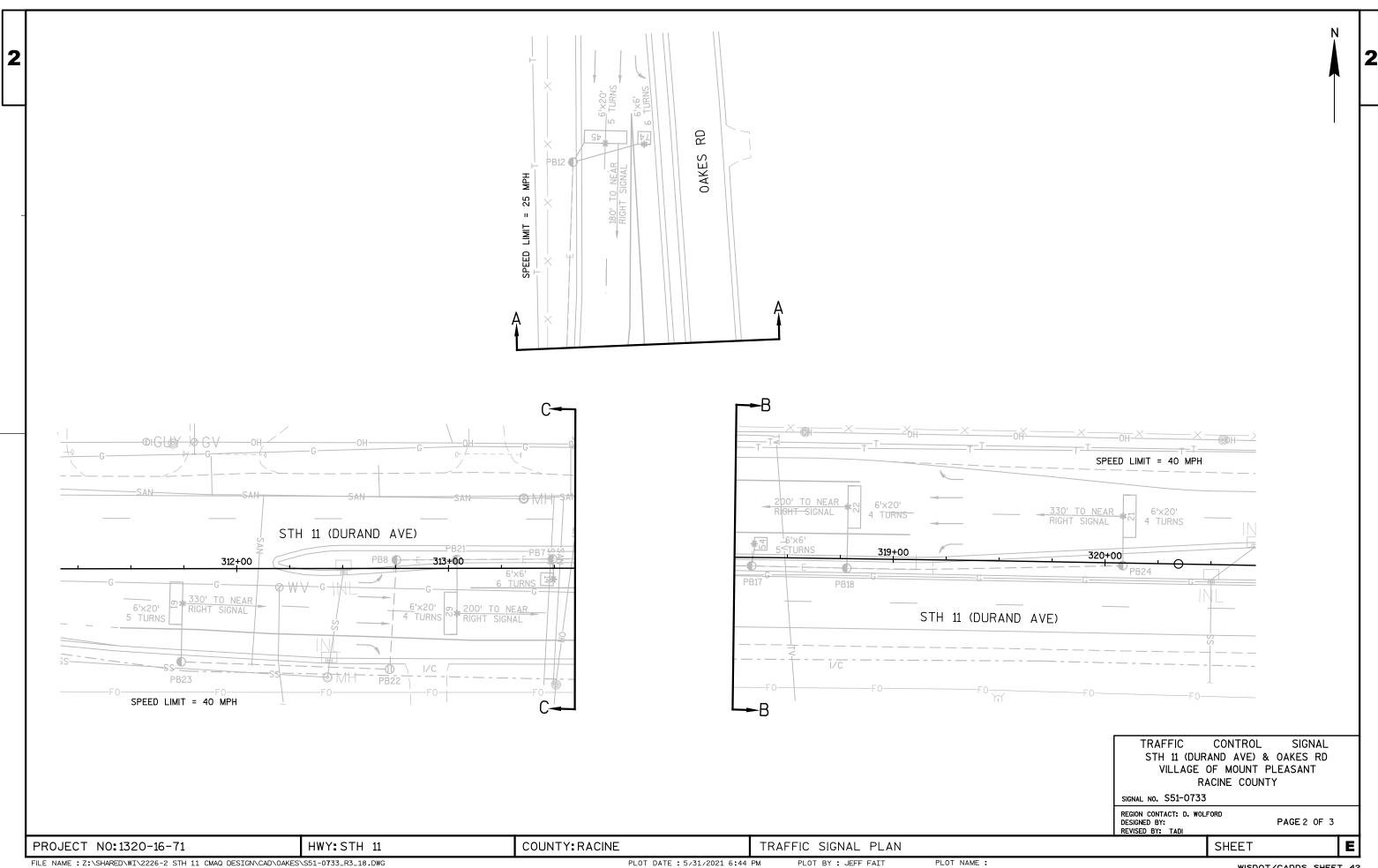
SHEET NO:

PROJECT NO: 1320-16-71 HWY: STH 11 **COUNTY: RACINE**

SEQUENCE OF OPERATIONS

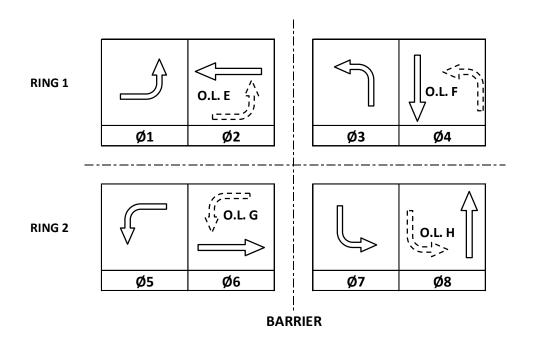






		F L
	HEAD NUMBERS	A S H
Ø1	12,21,22	₽
Ø2	1,2,3	R
Ø3	8,19,20	R
Ø4	13,14,15	R
Ø5	4,17,18	₽
Ø6	9,10,11	R
Ø7	16,23,24	₽
Ø8	5,6,7	R
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLE	12,21,22	-
OLF	8,19,20	-
OLG	4,17,18	-
OLH	16,23,24	-

PLAN LOOP DETECTOR*(S) 11 13 21 31



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		Х
2	Х	6	MIN	Х
3		8		х
4		8		Х
5		2		х
6	Х	2	MIN	Х
7		4		Х
8		4		Х

TRAFFIC RESPONSIVE	Х
ADAPTIVE	Х
*LOCATION OF MASTER	
CONTROLLER NO:	S-
SIGNAL SYSTEM NO:	SS- 51-0201

TYPE OF COORDINATION

TYPE OF INTERCONNECT/COMMUNICATION

CLOSED LOOP

TWISTED PAIR

CELL MODEM

FIBER OPTIC*
FIBER OPTIC (ETHERNET)
RADIO

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	Х
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	Х
GTT	Х
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	
LIFT BRIDGE	
QUEUE DETECTION	

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	А	В	С	D
MOVEMENT	V 1			<u></u>
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.

AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

							DI	ETECTO	OR LOG	ilC
 _	_	_		_	 		 			

33 35,36 41

CALLED PHASE	1	1	2	3	3	FUTURE	4	4
CALL OPTION	Х	Х	Х	Х	Х		Х	Х
DELAY TIME							Х	
EXTENTION OPTION	Х	Х	Х	Х	Х		Х	Х
EXTEND TIME								
USE ADDED INITIAL			Х					
CROSS SWITCH PHASE	2	2		4	4			
DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	14	22	32	34	37	42	44
CALLED PHASE	1	1	2	3	3	FUTURE	4	4
CALL OPTION	Х		Х	Х			Х	Х
DELAY TIME							Х	
EXTENTION OPTION	Х	Х	Х	Х	Х		Х	Х
EXTEND TIME		Х			Х			
USE ADDED INITIAL			Х					
CROSS SWITCH PHASE	2			4			·	

19	17	23	21	27	25	31	29
45	52	54	62	72	74	82	84
4	5	5	6	7	7	8	8
	Х		Х	Х		Х	Х
						Х	
Х	Х	Х	Х	Х	Х	Х	Х
Х		Х			Х		
			Х				
	6			8			

20	18	24	22	28	26	32	30
51	53	61	71	73	81	83	85
5	5	6	7	7	8	8	8
Х	Х	Х	Х	Х	Х	Х	
					Х		
Х	Х	Х	Х	Х	Х	Х	Х
							Х
		Х					
6	6		8	8			

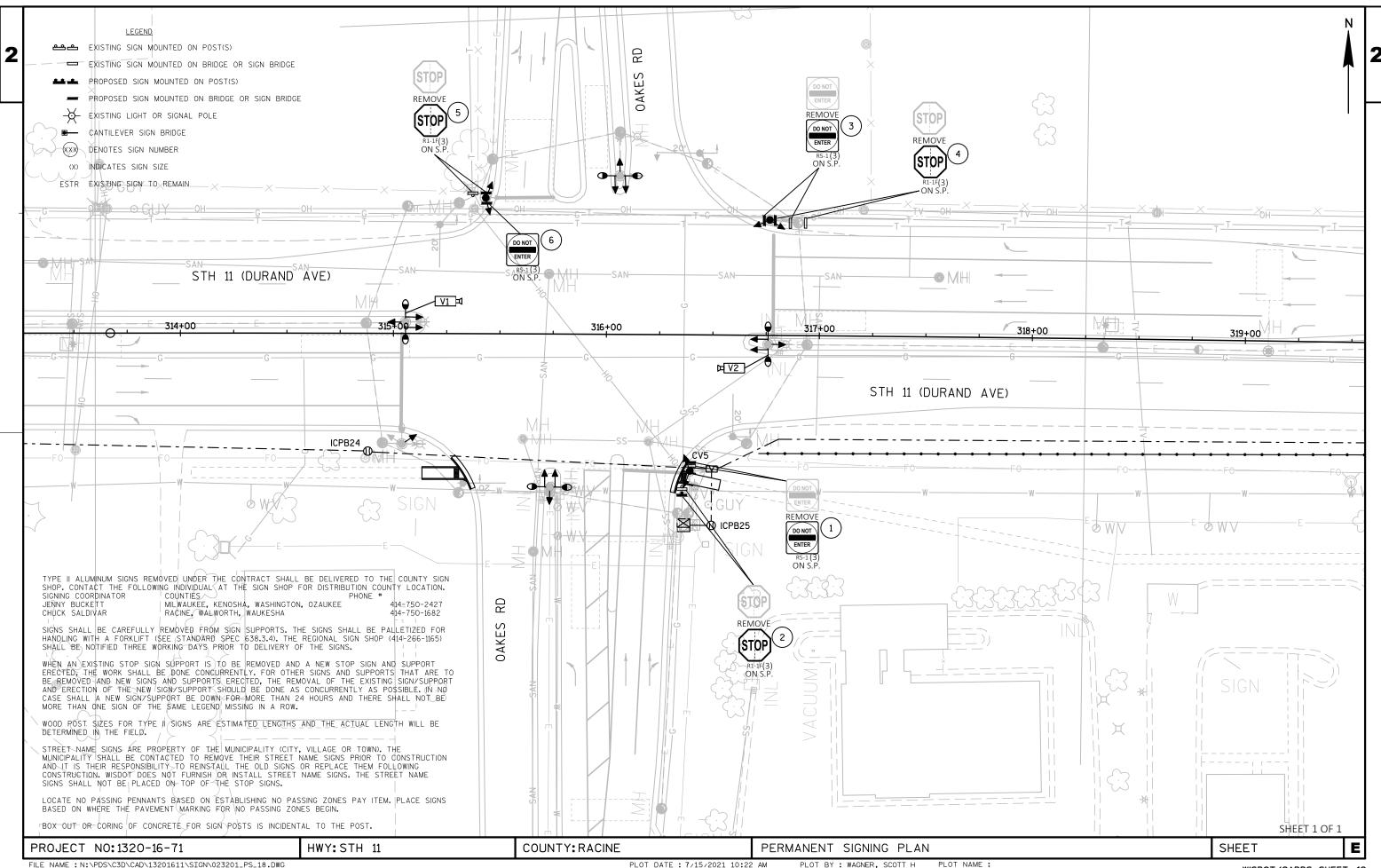
35	33	39	37	43	41	47	45	DETECTOR INPUT
63	23	S3	S1					PLAN LOOP DETECTOR*(S)
								CALLED PHASE
								CALL OPTION
								DELAY TIME
								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

36	34	40	38	44	42	48	46	DETECTOR INPUT
64	24	S4	S2					PLAN LOOP DETECTOR*(S)
								CALLED PHASE
								CALL OPTION
								DELAY TIME
								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

STH 11 (DURAND AVE) & OAKES RD VILLAGE OF MOUNT PLEASANT RACINE COUNTY CABINET TYPE: TS2-S SIGNAL NO: S51-0733 CONTROLLER TYPE: ECONOLITE DATE: 5/2021 PAGE NUMBER: 3 OF 3

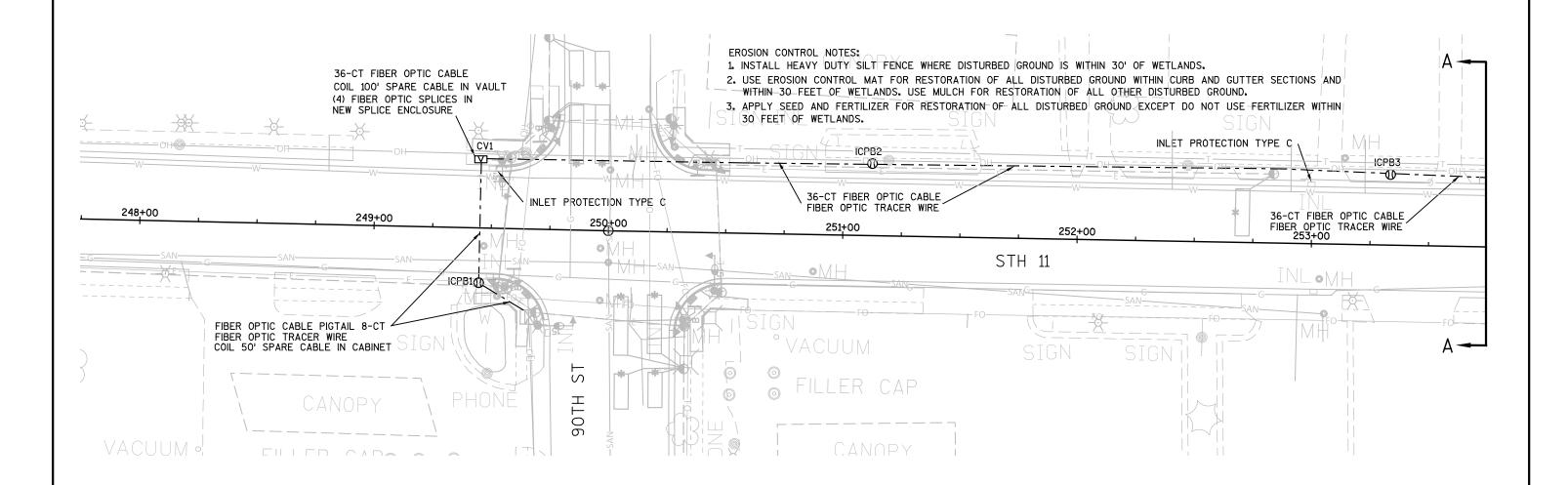
PROJECT NO: 1320-16-71 HWY: STH 11 **COUNTY: RACINE SEQUENCE OF OPERATIONS** SHEET NO:

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CONSTRUCTION NOTES

- 1. ALL UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
- 2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.



TRAFFIC SIGNAL INTERCONNECT STH I1

RACINE COUNTY

SHEET

REGION CONTACT: D. WOLFORD DESIGNED BY: TADI PAGE 1 OF 10

FILE NAME : Z:\SHARED\WI\2226-2 STH 11 CMAQ DESIGN\CAD\STH 11 INTERCONNECT.DWG LAYOUT NAME - 024202_sp

HWY: STH 11

PROJECT NO: 1320-16-71

PLOT DATE : 7/29/2021 1:40 PM

PLOT BY : JEFF FAIT

PLOT NAME :

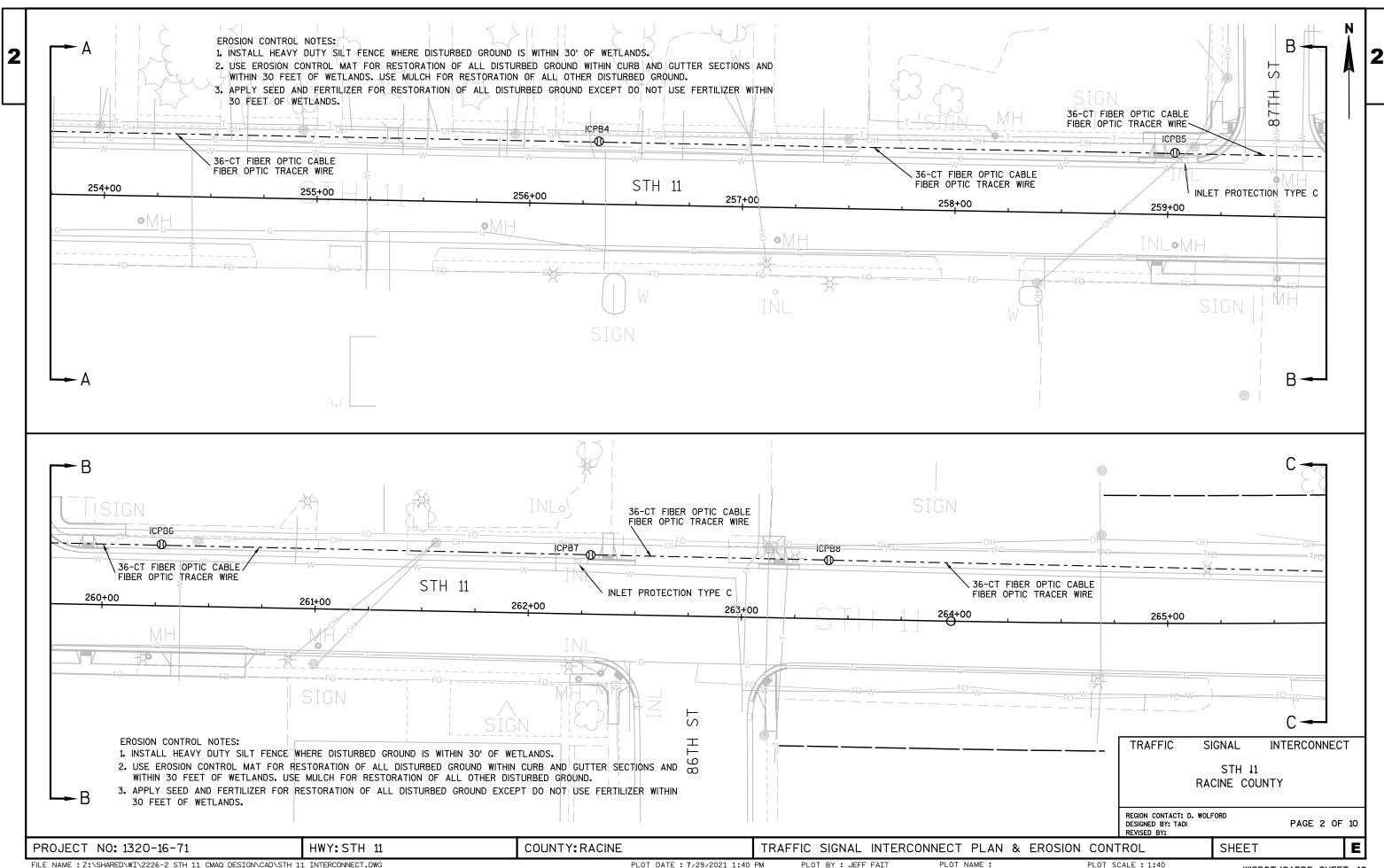
TRAFFIC SIGNAL INTERCONNECT PLAN & EROSION CONTROL

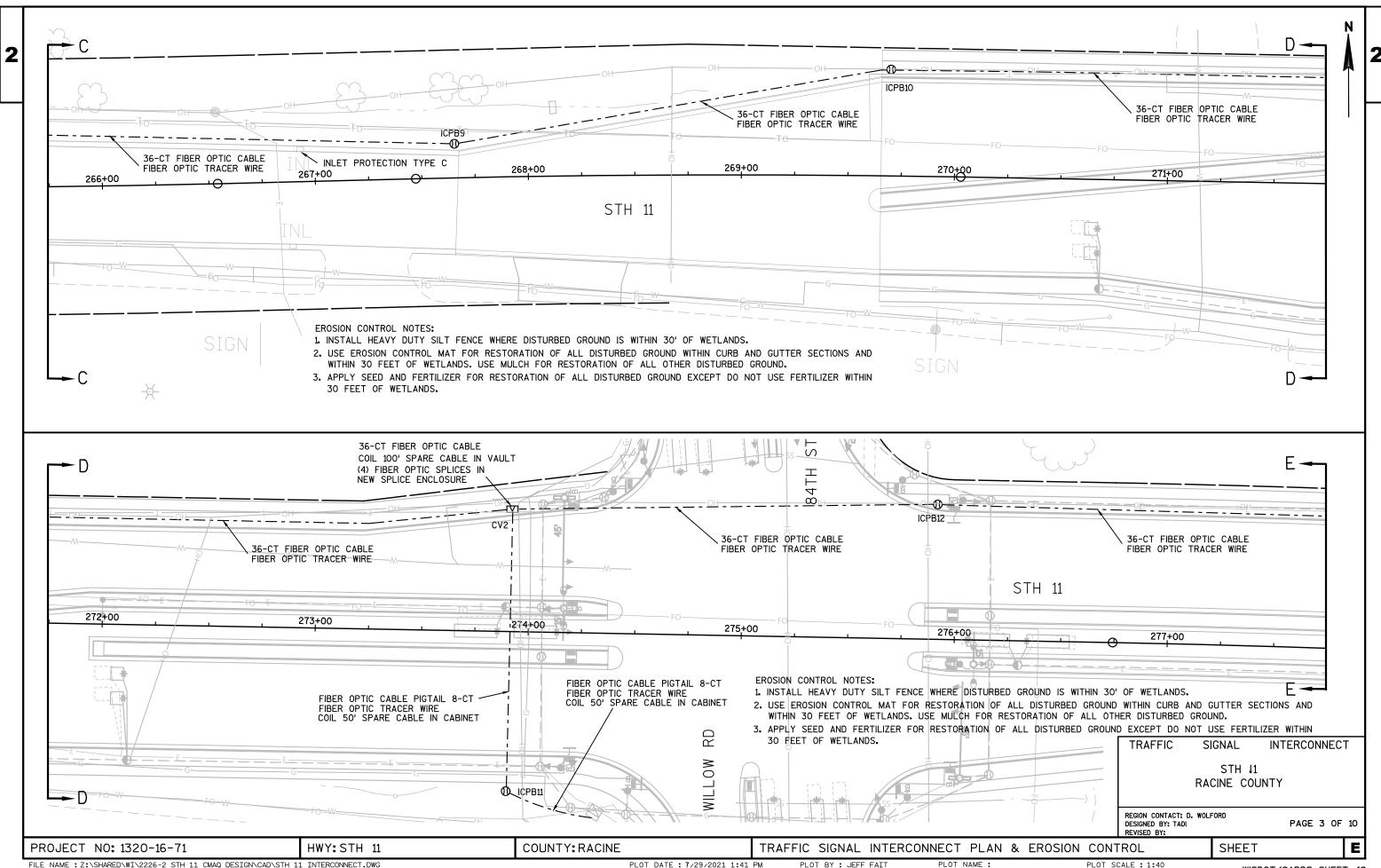
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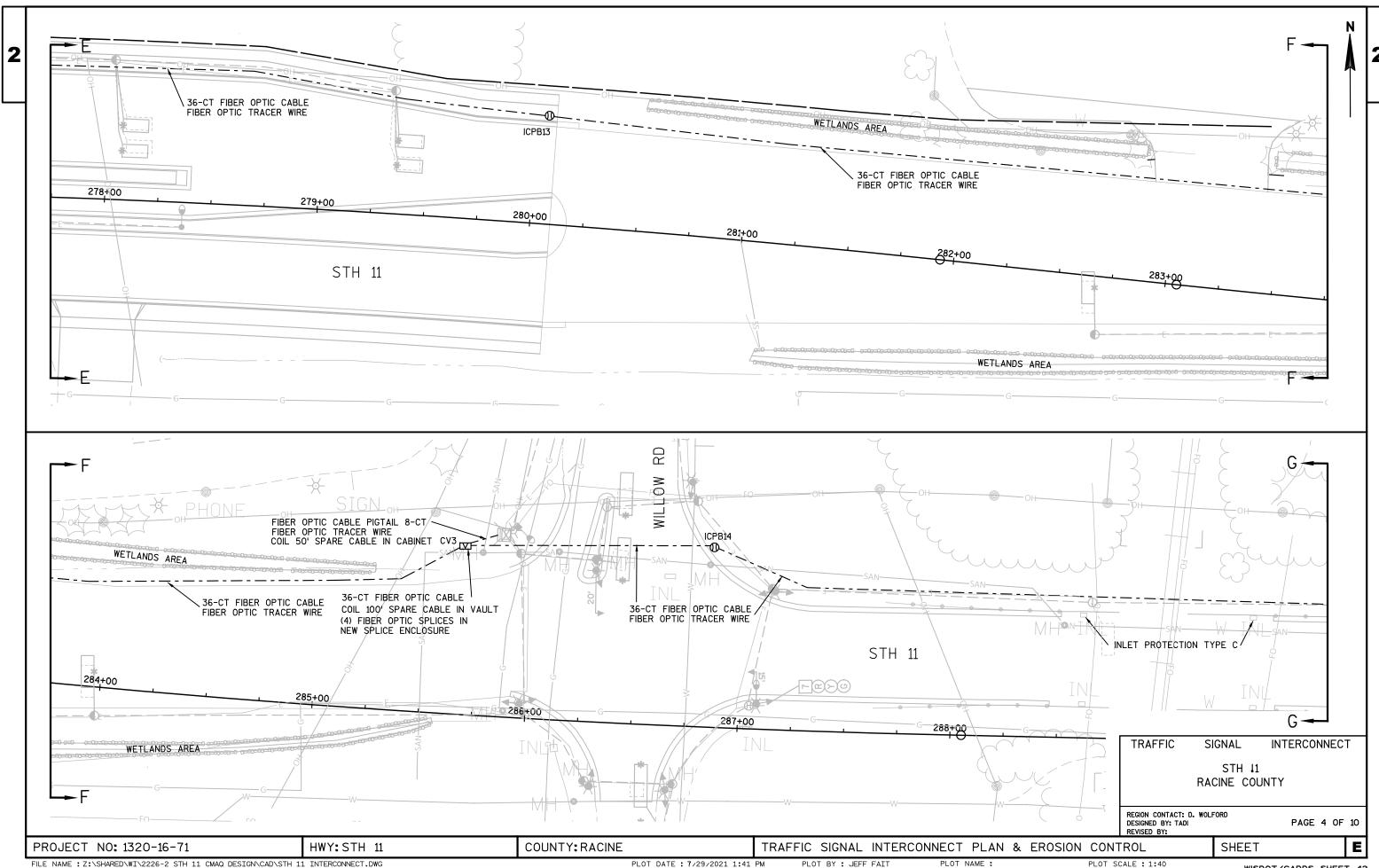
WISDOT/CADDS SHEET 42

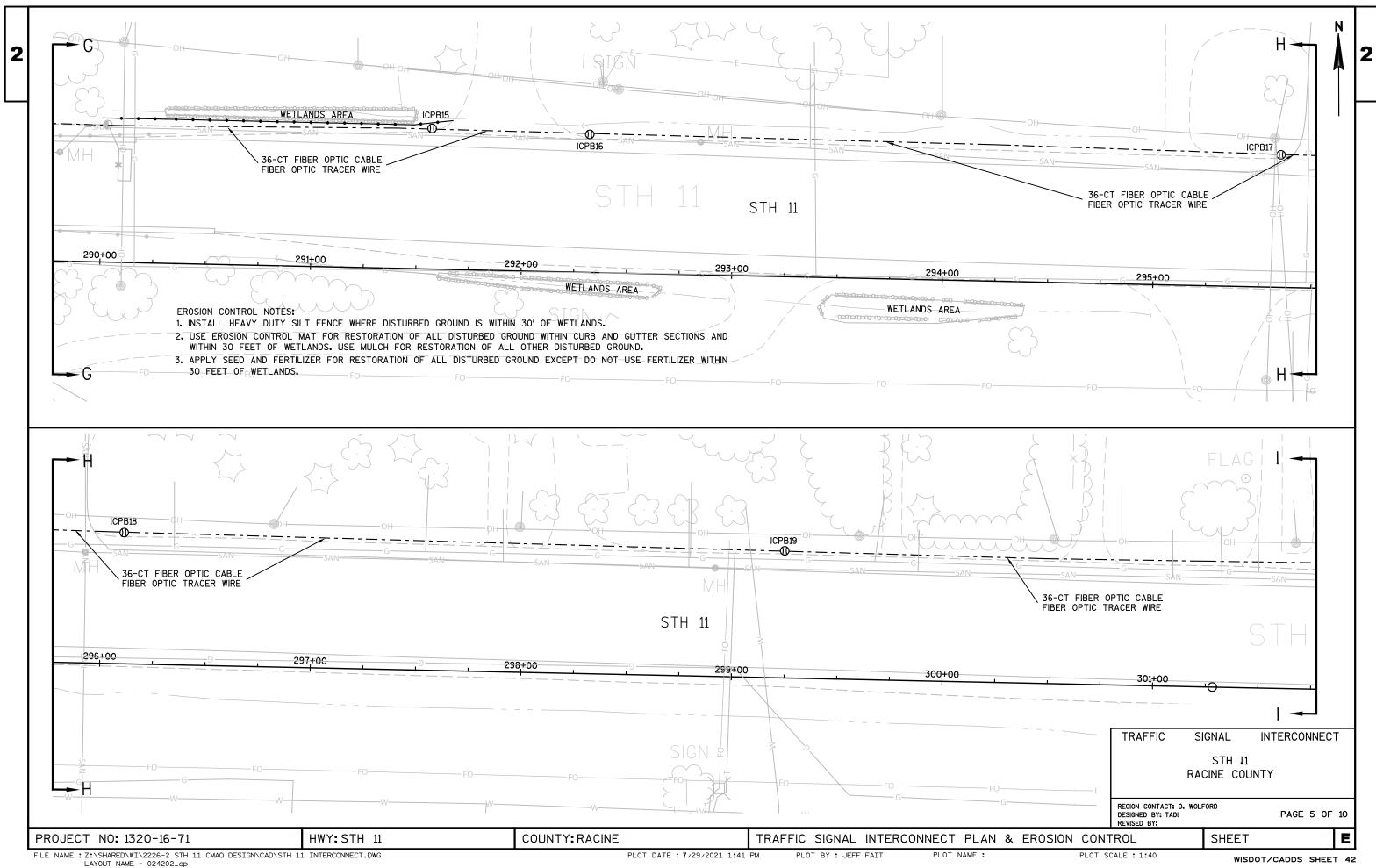
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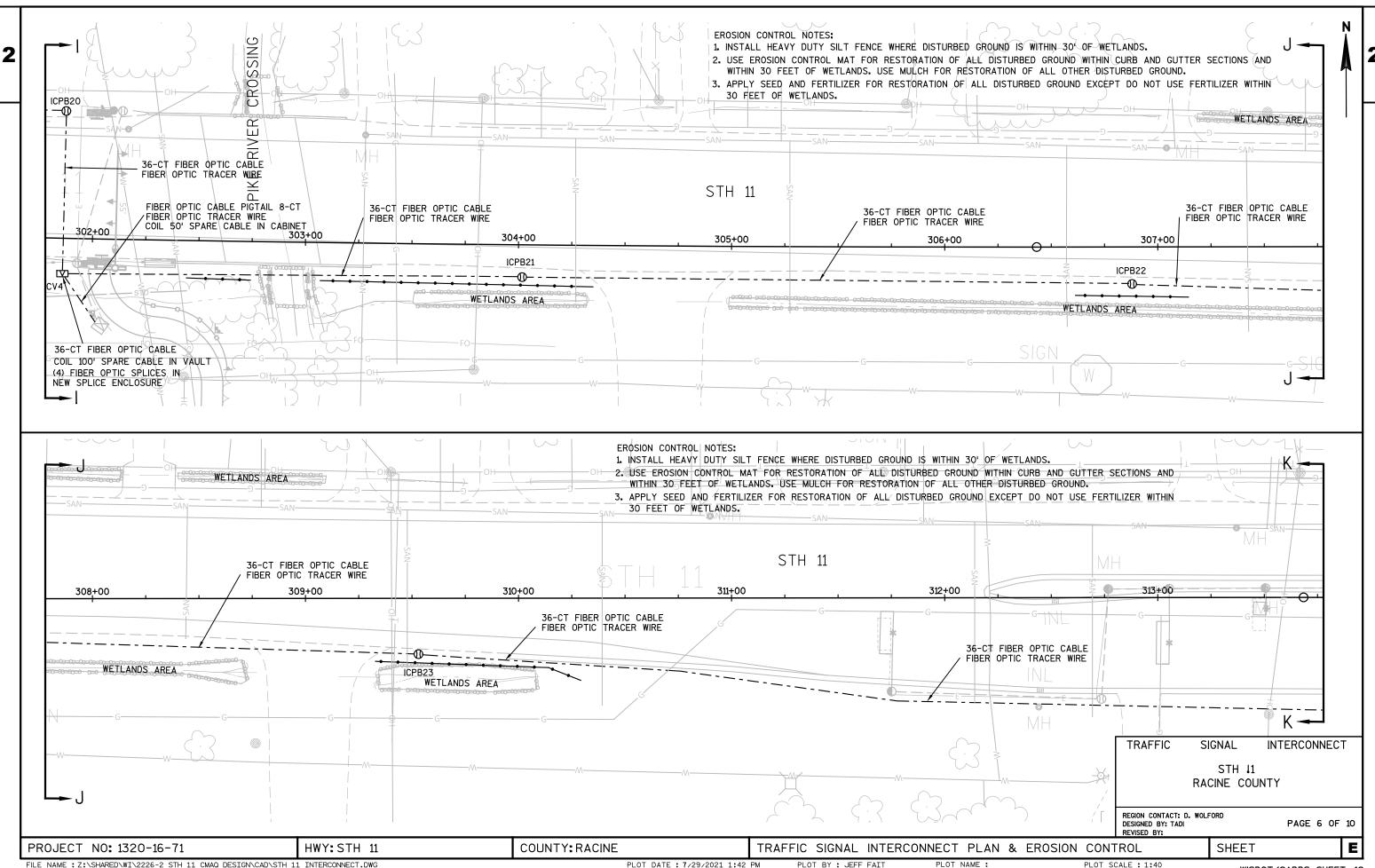
COUNTY: RACINE

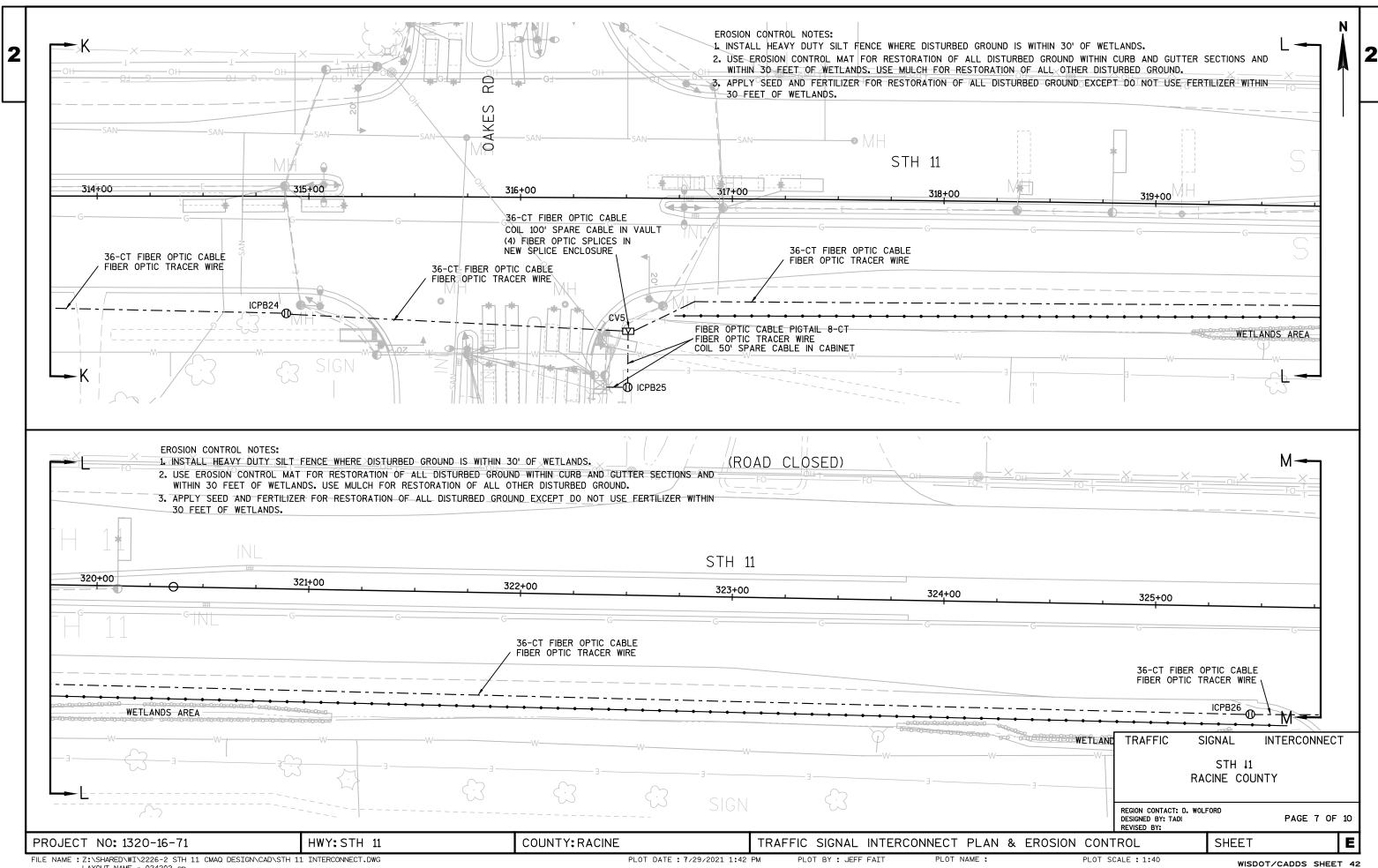


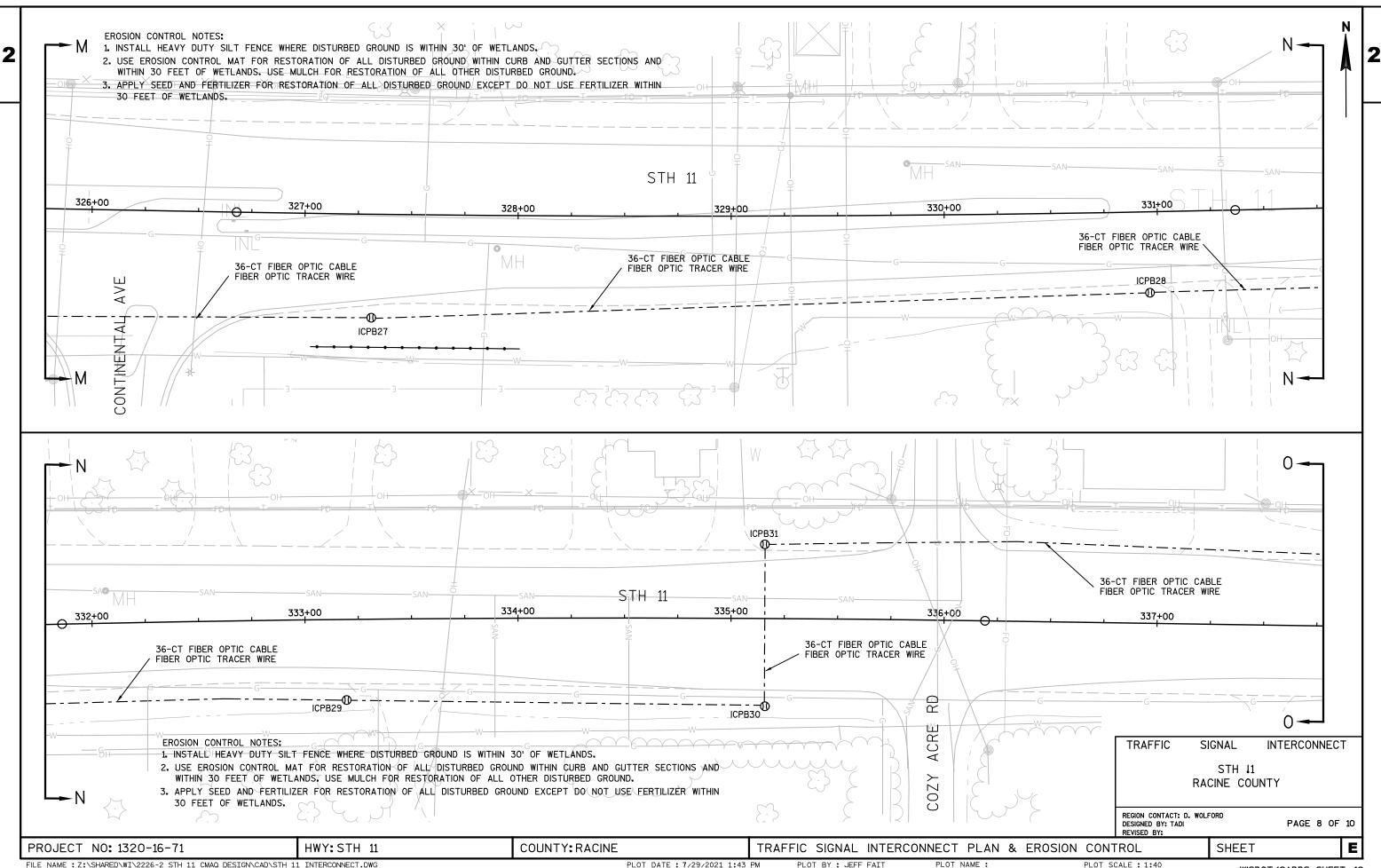


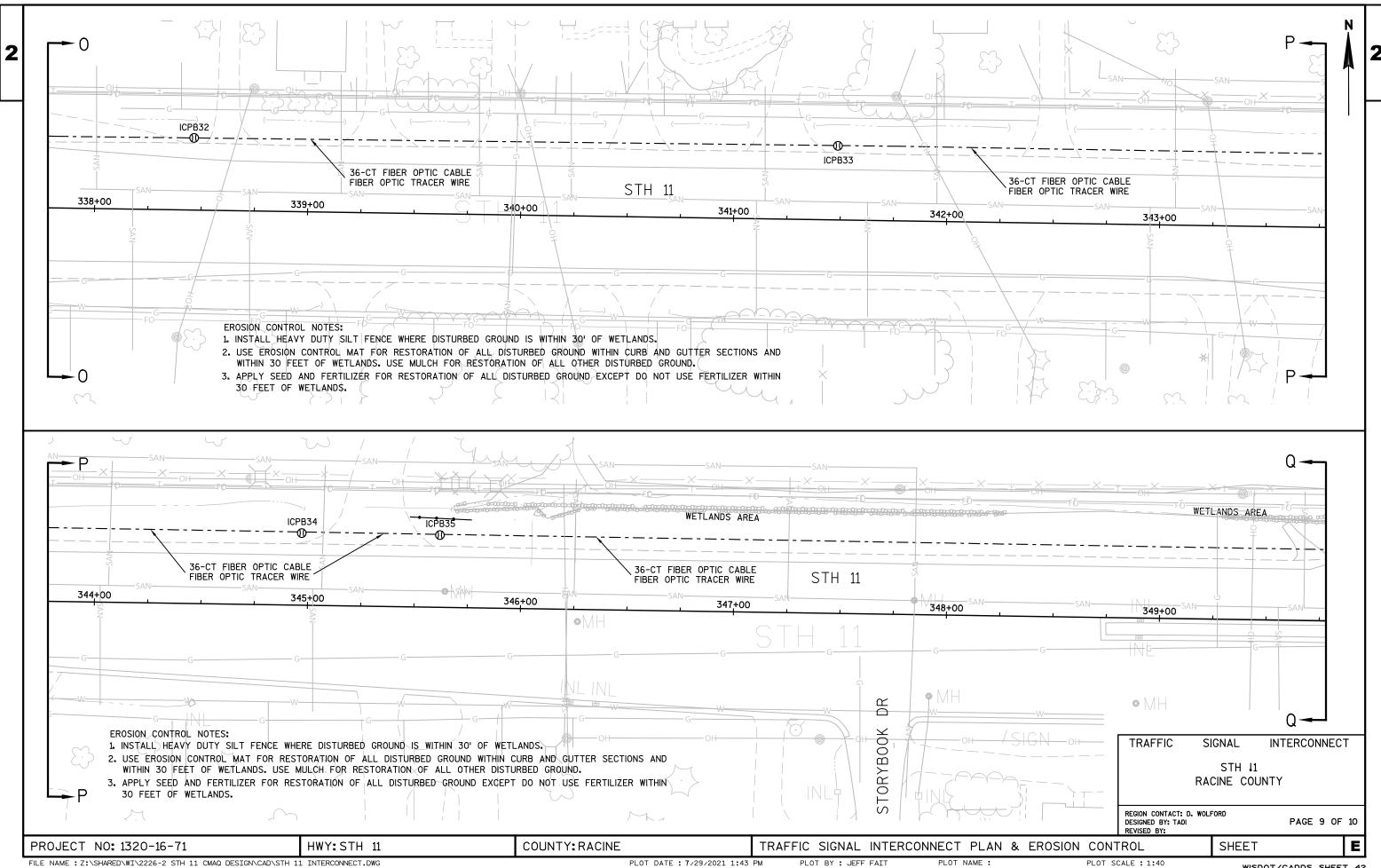


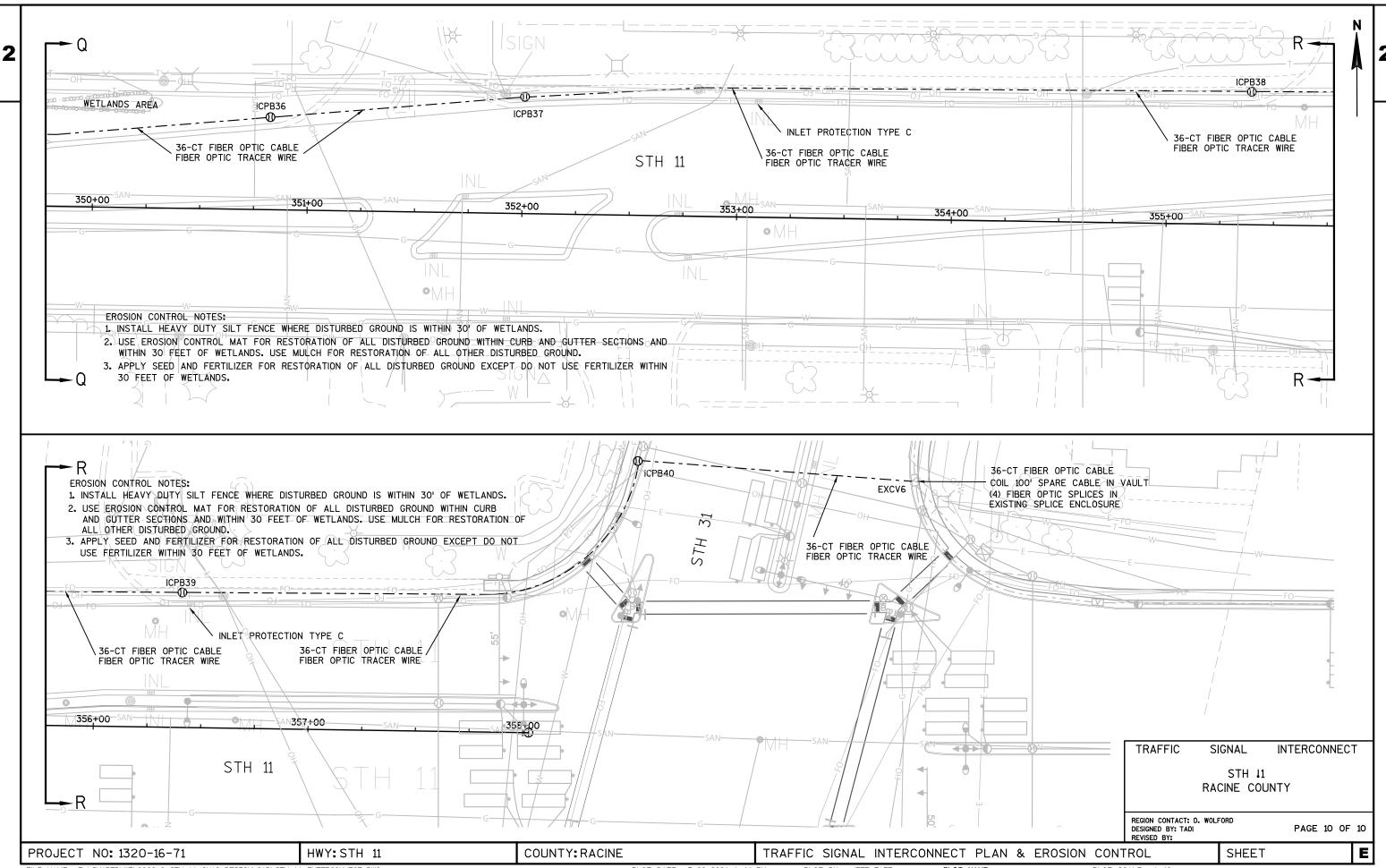




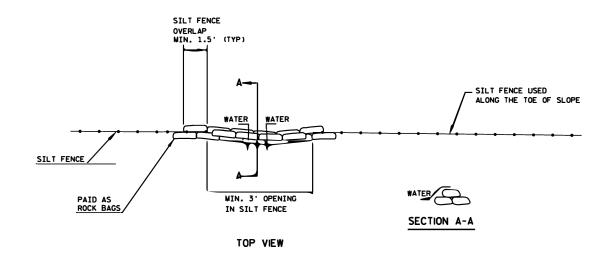




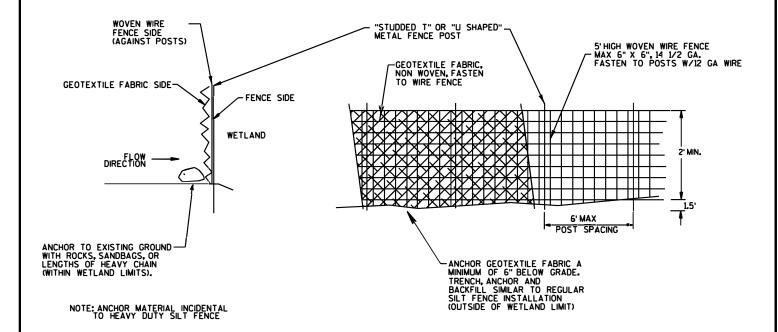




2



ROCK BAGS USED FOR SILT FENCE RELIEF DETAIL



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1320-16-71	
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					1320-16-71	
Line	Item	Item Description	Unit	Total	Qty	
0002	204.9060.S	Removing (item description) 01. Traffic Signals STH 11 at 90th St	EACH	1.000	1.000	
0004	204.9060.S	Removing (item description) 02. Traffic Signals STH 11 at Willow Rd	EACH	1.000	1.000	
0006	204.9060.S	Removing (item description) 03. Traffic Signals STH 11 at Oakes Rd	EACH	1.000	1.000	
0014	619.1000	Mobilization	EACH	0.800	0.800	
0016	627.0200	Mulching	SY	1,110.000	1,110.000	
0018	628.1520	Silt Fence Maintenance	LF	1,890.000	1,890.000	
0020	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000	
0022	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000	
0024	628.2002	Erosion Mat Class I Type A	SY	4,040.000	4,040.000	
0026	628.7015	Inlet Protection Type C	EACH	8.000	8.000	
0028	629.0205	Fertilizer Type A	CWT	2.100	2.100	
0030	630.0130	Seeding Mixture No. 30	LB	87.600	87.600	
0032	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	3.000	3.000	
0034	637.2210	Signs Type II Reflective H	SF	47.000	47.000	
0036	637.2215	Signs Type II Reflective H Folding	SF	22.380	22.380	
0038	637.2230	Signs Type II Reflective F	SF	20.000	20.000	
0040	638.2102	Moving Signs Type II	EACH	3.000	3.000	
0042	638.2602	Removing Signs Type II	EACH	3.000	3.000	
0044	638.3000	Removing Small Sign Supports	EACH	3.000	3.000	
0048	643.0300	Traffic Control Drums	DAY	2,872.000	2,872.000	
0050	643.0410	Traffic Control Barricades Type II	DAY	55.000	55.000	
0052	643.0420	Traffic Control Barricades Type III	DAY	162.000	162.000	
0056	643.0900	Traffic Control Signs	DAY	478.000	478.000	
0058	643.1050	Traffic Control Signs PCMS	DAY	10.000	10.000	
0060	643.5000	Traffic Control	EACH	0.850	0.850	
0062	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	4,220.000	4,220.000	
0064	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	2,215.000	2,215.000	
0066	652.0605	Conduit Special 2-Inch	LF	8,855.000	8,855.000	
0068	653.0140	Pull Boxes Steel 24x42-Inch	EACH	40.000	40.000	
0070	655.0230	Cable Traffic Signal 5-14 AWG	LF	140.000	140.000	
0072	655.0240	Cable Traffic Signal 7-14 AWG	LF	240.000	240.000	
0074	655.0510	Electrical Wire Traffic Signals 12 AWG	LF	12,180.000	12,180.000	
0076	657.0425	Traffic Signal Standards Aluminum 15-FT	EACH	3.000	3.000	
0078	658.0173	Traffic Signal Face 3S 12-Inch	EACH	7.000	7.000	
0800	658.0174	Traffic Signal Face 4S 12-Inch Signal Mounting Hardware (location) 01. STH 11 at Oaks Rd	EACH LS	12.000	12.000 1.000	
0082	658.5069 659.1125	Luminaires Utility LED C	EACH	1.000 11.000	11.000	
0084		•				
0086 0088	670.0100 670.0200	Field System Integrator ITS Documentation	LS LS	1.000 1.000	1.000 1.000	
0090	673.0105	Communication Vault Type 1	EACH	5.000	5.000	
		· ·	LF			
0092 0094	678.0036 678.0200	Install Fiber Optic Cable Outdoor Plant 36-CT Fiber Optic Splice Enclosure	EACH	12,180.000 5.000	12,180.000 5.000	
0094	678.0300	Fiber Optic Splice	EACH	24.000	24.000	
0098	678.0500	Communication System Testing	LS	1.000	1.000	
0100	678.0600	Install Ethernet Switches	EACH	5.000	5.000	
0100		On-the-Job Training Apprentice at \$5.00/HR	HRS	1,400.000	1,400.000	
0102		On-the-Job Training Apprentice at \$5.00/HR On-the-Job Training Graduate at \$5.00/HR	HRS	1,500.000	1,500.000	
0104		Special 01. Trans & Install State Furn Traffic Signal Cabinet STH 11 at 90th St	EACH	1.000	1,300.000	
0108		Special 02. Trans & Install State Furn Traffic Signal Cabinet STH 11 at Willow Rd	EACH	1.000	1.000	
0100	OF V.0000	Opeciai 02. Trans & install state Furth Tranic Signal Cabinet 317 11 at Willow Ru	LACH	1.000	1.000	

					1320-16-71
Line	Item	Item Description	Unit	Total	Qty
0110	SPV.0060	Special 03. Trans & Install State Furn Traffic Signal Cabinet STH 11 at Oakes Rd	EACH	1.000	1.000
0112	SPV.0060	Special 04. Trans & Install State Furnished Video Vehicle Detection Sys STH 11 at 90th	EACH	1.000	1.000
0114	SPV.0060	Special 05. Trans & Install State Furnished Video Vehicle Detection Sys STH 11 at 84th	EACH	1.000	1.000
0116	SPV.0060	Special 06. Trans & Install State Furnished Video Veh Detection Sys STH 11 at Willow R	EACH	1.000	1.000
0118	SPV.0060	Special 07. Trans & Install State Furnished Video Veh Detection Sys STH 11 at Oakes Rd	EACH	1.000	1.000
0120	SPV.0060	Special 08. Trans & Install State Furnished Video Veh Det Sys STH 11 at Pike River Pat	EACH	1.000	1.000
0130	SPV.0060	Special 13. Trans & Install State Furn FO Pigtail 8-ct 85-FT & Optical Transceiver	EACH	1.000	1.000
0132	SPV.0060	Special 14. Trans & Install State Furnished FO Pigtail 8-ct 95-FT & Opt Transceiver	EACH	1.000	1.000
0134	SPV.0060	Special 15. Trans & Install State Furnished FO Pigtail 8-ct 100-FT & Opt Transceiver	EACH	1.000	1.000
0136	SPV.0060	Special 16. Trans & Install State Furnished FO Pigtail 8-ct 140-FT & Opt Transceiver	EACH	1.000	1.000
0138	SPV.0060	Special 17. Trans & Install State Furnished FO Pigtail 8-ct 240-FT & Opt Transceiver	EACH	1.000	1.000
0140	SPV.0060	Special 18. Trans & Install State Furnished Radio Interconnect Units STH 11 at CTH H	EACH	1.000	1.000
0142	SPV.0060	Special 19. Trans & Install State Furnished Radio Interconnect Units STH 11 at 90th St	EACH	1.000	1.000
0144	SPV.0060	Special 20. Exposing Existing Infrastructure Unpaved Area	EACH	6.000	6.000
0146	SPV.0060	Special 21. Exposing Existing Infrastructure Paved Area	EACH	12.000	12.000
0148	SPV.0090	Special 01. Fiber Optic Warning Tape	LF	12,180.000	12,180.000
0150	SPV.0090	Special 02. Heavy Duty Silt Fence	LF	1,890.000	1,890.000

STATE FURNISHED MATERIALS SUMMARY - FOR INFORMATION ON	LY
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EACH	DESCRIPTION
4	VIDEO VEHICLE DETECTION SYSTEM
1	PATCH PANEL WITH FIBER OPTIC PIGTAIL 8-CT 95-FT
1	PATCH PANEL WITH FIBER OPTIC PIGTAIL 8-CT 100-FT
1	PATCH PANEL WITH FIBER OPTIC PIGTAIL 8-CT 105-FT
1	PATCH PANEL WITH FIBER OPTIC PIGTAIL 8-CT 145-FT
1	PATCH PANEL WITH FIBER OPTIC PIGTAIL 8-CT 245-FT
5	ETHERNET SWITCH
10	SMALL FORM FACTOR PLUGGABLE OPTICAL TRANSCEIVER
5	SPLICE ENCLOSURE
12180	FIBER OPTIC CABLE OUTDOOR PLANT 36-CT
2	5.8 GHZ RADIO INTERCONNECT UNITS

TOTAL

	REMO'	VING TRAFFIC SIGN	ALS	
		204.0060.S.01	204.0060.S.02	204.0060.S.03
		REMOVING	REMOVING	REMOVING
		TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS
LOCATION		L.S.	L.S.	L.S.
STH 11 AT 90TH ST		1	-	
STH 11 AT WILLOW RD			1	
STH 11 AT OAKES RD				1
	TOTAL	1	1	1

	MOBILIZATION	
		619.1000.01
		MOBILIZATION
LOCATION		EACH
PROJECT 1320-16-71		0.8
	ΤΟΤΔΙ	0.8

			EROSION (CONTROL AND RESTORATION	I		
		627.0200	SPV.0090.02	628.1520	628.2002	629.0205	630.0130
					EROSION MAT		SEEDING
			HEAVY DUTY	SILT FENCE	CLASS 1	FERTILIZER	MIXTURE
LOCATION		MULCHING	SILT FENCE	MAINTENANCE	TYPE A	TYPE A	NO. 30
STA-STA	SIDE	SY	LF	LF	SY	CWT	LB
249+40 - 263+40	LT				89	0.06	1.6
263+40 - 280+10	LT				928	0.58	16.7
280+10 - 295+60	LT	489	90	90	347	0.31	15.05
295+60 - 301+85	LT	25				0.02	0.45
301+85 - 309+55	RT	11	120	120	200	0.01	3.8
309+55 - 316+85	RT		95	95	406	0.22	7.3
316+85 - 331+00	RT	228	940	940	550	0.14	9.9
331+00 - 333+20	RT						
333+20 - 335+15	RT	108				0.07	1.95
335+15 - 345+60	LT	28				0.02	0.5
345+60 - 349+80	LT				233		4.2
349+80 - 358+45	LT		65	65	481	0.27	8.65
UNDISTRIBUTED		221	580	580	806	0.40	17.50

1890

	EROS	ION CONTROL AND RESTO	RATION - CONTINUED	
		628.1905	628.1910	628.7015
			MOBILIZATIONS	INLET
		MOBILIZATIONS	EMERGENCY	PROTECTION
		EROSION CONTROL	EROSION CONTROL	TYPE C
LOCATION		EACH	EACH	EACH
PROJECT 1320-16-71		4	1	8
	TOTAL	4	1	8

1890

1110

PAGE 1 OF 5

	PROJECT NO: 1320-16-71	HWY: STH 11	COUNTY: RACINE	MISCELLANEOUS QUANTITIES	SHEET:	E
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4040

2.10

87.60

3	
J	

		VIDEO VEHICLE DETEC	CTION SYSTEM		
	SPV.0060.04	SPV.0060.05	SPV.0060.06	SPV.0060.07	SPV.0060.08
	TRANSPORTING AND	TRANSPORTING AND	TRANSPORTING AND	TRANSPORTING AND	TRANSPORTING AND
	INSTALLING	INSTALLING	INSTALLING	INSTALLING	INSTALLING
	STATE FURNISHED	STATE FURNISHED	STATE FURNISHED	STATE FURNISHED	STATE FURNISHED
	VIDEO VEHICLE	VIDEO VEHICLE	VIDEO VEHICLE	VIDEO VEHICLE	VIDEO VEHICLE
	DETECTION	DETECTION	DETECTION	DETECTION	DETECTION
	SYSTEM	SYSTEM	SYSTEM	SYSTEM	SYSTEM
LOCATION	L.S.	L.S.	L.S.	L.S.	L.S.
STH 11 AT 90TH ST	1	-	-		
STH 11 AT 84TH ST	-	1	-		
STH 11 AT WILLOW RD	-	-	1		
STH 11 AT OAKES RD		-	-	1	
STH 11 AT PIKE RIVER PATHWAY					1
TOTAL	1	1	1	1	1

STH 11 FROM CTH H TO STH 31 ALL ITEMS ARE CATEGORY 0010

_	COMMUNICATION VAULTS						
				673.0105			
				COMMUNICATION			
				VAULT			
	VAULT	LOCA	TION *	TYPE 1			
_	NO.	STA	OFFSET	EACH			
	CV1	249+45	29 LT	1			
	CV2	273+92	57 LT	1			
_	CV3	285+66	80 LT	11			
	CV4	301+88	12 RT	1			
_	CV5	316+51	63 RT	11			
			TOTAL	5			

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD

		CONDU	IT	
			652.0225	652.0605
			CONDUIT RIGID	CONDUIT
			NONMETALLIC	SPECIAL
			SCHEDULE 40	2-INCH
			2-INCH	
FROM	то		L.F.	L.F.
EXCB1	ICPB1	(90TH ST)		20
ICPB1	CV1			50
CV1	ICPB2			165
ICPB2	ICPB3			220
ICPB3	ICPB4			295
ICPB4	ICPB5			270
ICPB5	ICPB6			120
ICPB6	ICPB7			200
ICPB7	ICPB8			110
ICPB8	ICPB9		320	
ICPB9	ICPB10		210	
ICPB10	CV2		435	
CV2	ICPB11			130
ICPB11	EXCB1	(84TH ST)		40
CV2	ICPB12			195
CPB12	ICPB13			420
CPB13	CV3			565
CV3	EXCB1	(WILLOW)	15	
CV3	ICPB14			115
ICPB14	ICPB15		470	
ICPB15	ICPB16			75
ICPB16	ICPB17			325
ICPB17	ICPB18			50
ICPB18	ICPB19			310
ICPB19	ICPB20			260

TI	RAFFIC SIGN	AL CABLE AND WIRE	- OAKES RD
		655.0230	655.0240
то		CABLE	CABLE
	SIGNAL	TRAFFIC SIGNAL	TRAFFIC SIGNAL
	HEAD	5-14 AWG	7-14 AWG
FROM	NUMBER	L.F.	L.F.
SB1	1	20	
SB1	21		20
SB2	11	20	
SB2	4	-	20
SB2	22	-	20
SB4	5	20	
SB4	23	-	20
SB5	15	20	-
SB5	8	<u></u>	20
SB5	24	-	20
SB7	17	-	20
SB8	3	20	
SB8	12	-	20
SB8	18	-	20
SB10	13	20	
SB10	19	-	20
SB11	7	20	-
SB11	16	-	20
SB11	20	-	20
	TOTAL	140	240

PAGE 2 OF 5

PROJECT NO: 1320-16-71 HWY: STH 11 COUNTY: RACINE MISCELLANEOUS QUANTITIES SHEET: **E**

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SHEET:

	PULL	BOXES					POLES			A	LL ITEM	1S ARE	CATEGOR	Y 0010
			653.0140				657.0425	659.1125						
			PULL BOXES STEEL				RAFFIC SIGNAL STANDARDS	LUMINAIRES				FAC	ES - OAKES RD	
PULL BOX	LOCAT	ION *	24x42-INCH				ALUMINUM	UTILITY					658.0173	658.0174
NO.	STA	OFFSET	EACH		SIGNAL		15-FT	LED C					TRAFFIC	TRAFFIC
ICPB1	249+45	24RT	1		BASE NO.		EACH	EACH					SIGNAL FACE	SIGNAL FACE
ICPB2	251+13	31 LT	1			90TH ST		1	:		SIGNAL	SIGNAL	3S-12 INCH	4S-12 INCH
ICPB3	253+34	30 LT	1			90TH ST	-	1			BASE NO	. HEAD NO.	EACH	EACH
ICPB4	256+32	29 LT	<u>·</u> 1			WILLOW		1			SB1	1	1	-
ICPB5	259+03	29 LT	1		SB1	OAKES	1		-		SB1	21		1
ICPB6	260+27	28 LT	1			OAKES	<u>'</u>	2			SB2	11	11	<u> </u>
ICPB7	262+29	27 LT	. 1			OAKES	1				SB2	4		1
ICPB8	263+40	27 LT	1		SB5	OAKES	<u>-</u>	2	-		SB2	22	-	1
ICPB9	267+65	15 LT	1		SB8	OAKES		2			SB4	5	1	-
ICPB10	269+70	50 LT	<u> </u>		SB10	OAKES	1				SB4	23		1
ICPB10	273+92	76 RT	1		SB10 SB11	OAKES	<u>'</u>	2	-		SB5	15	1	-
ICPB11	275+90	63 LT	1		TOTAL	UANES	3	11			SB5	8		1
ICPB12	280+06	50 LT			TOTAL		J	11			SB5	24		1
ICPB13	286+85	85 LT	1								SB7	17		1
ICPB15	291+56	67 LT	1								SB8	3	1	
ICPB16	292+32	66 LT	<u>'</u> 1								SB8	12		1
ICPB17	295+60	63 LT	1								SB8	18		1
ICPB17	296+10	63 LT	1								SB10	13	1	<u></u>
ICPB19	299+25	60 LT	<u>'</u>		т	RAFFIC SIGI	NAL MOUNTING	HARDWARE			SB10	19		1
ICPB20	301+88	60 LT	1		· · · · · ·				5069.01		SB11	7	1	
ICPB21	304+01	16 RT	1						GNAL		SB11	16		1
ICPB22	306+88	17 RT	<u>.</u> 1						JNTING		SB11	20		1
ICPB23	309+28	27 RT	1						DWARE			TOTAL	7	12
ICPB24	314+90	75 RT	1		LOCATION				L.S.					
ICPB25	316+51	90 RT	<u>'</u> 1		STH 11 AT O	AKES RD			1					
ICPB26	325+45	50 RT	1		<u> </u>				1					
ICPB27	327+32	48 RT	1											
ICPB28	330+96	37 RT	<u>.</u> 1											
ICPB29	333+20	37 KT 38 RT												
ICPB29	335+16	42 RT	1 1											
ICPB31	335+16	35 LT	<u>'</u> 1											
ICPB31	338+46	34 LT	1			TRAF	FIC SIGNAL CA	BINET						
ICPB32	341+48	34 LT 35 LT	1			SPV.0	060.01	SPV	/.0060.02	SPV.0060.03	_			
ICPB33	344+97	35 LT				TRANSPO	RTING AND	TRANSP	PORTING AND	TRANSPORTING AND)			
ICPB34	345+62	35 LT 34 LT	1			INSTALL	ING STATE	INSTAL	LING STATE	INSTALLING STATE				
ICPB35	350+82	43 LT	1			FURNISH	ED TRAFFIC	FURNISI	HED TRAFFIC	FURNISHED TRAFFIC	;			
ICPB37	352+00	54 LT	<u> </u>			SIGNAL	CABINET	SIGNA	AL CABINET	SIGNAL CABINET				
ICPB37	355+40	63 LT		LOCATION			S.		L.S.	L.S.				
ICPB38	356+40	63 LT	1	STH 11 AT 90TH ST			1							
ICPB39	358+50	127 LT	1	STH 11 AT WILLOW RD					1					
TOTAL	330 * 3U	TOTAL	<u>1</u> 40	STH 11 AT OAKES RD			<u></u>		<u> </u>	1				
IUIAL		IOIAL	40		TOTAL		1	_	1	1				
* FINAL LOC	CATION TO	BE DETERM	INED BY											
THE ENGI	NEER IN TH	E FIELD												

COUNTY: RACINE

PROJECT NO: 1320-16-71

HWY: STH 11

MISCELLANEOUS QUANTITIES

PROJECT NO: 1320-16-71

		SPV.0060.13	SPV.0060.14	OMMUNICATIONS EQUIPMENT SPV.0060.15	SPV.0060.16	SPV.	0060.17
				G TRANSPORTING AND INSTALLING STATE FURNISHED FO CABLE PIGTAIL 8-CT 100-FT AND OPTICAL		TRANSPORTING STATE F FO CABLE	
		TRANSCEIVER	TRANSCEIVER	TRANSCEIVER	TRANSCEIVER		SCEIVER
LOCATION	LOCATION	L.S.	L.S.	L.S.	L.S.		S.
STH 11 AT 90TH ST	CV1 - EXCB1		-		1		
STH 11 AT 84TH ST	CV2 - EXCB1						1
STH 11 AT WILLOW RD	CV3 - EXCB1	1	-	-	-		-
STH 11 AT PIKE RIVER PATHWAY STH 11 AT OAKES RD	CV4 - EXCB1 CV5-EXCB1	-	1	- 4	-		-
TOTAL	CV3-EXCB1		1	<u>'</u> 1			1
	INTERCONNECT TE	STING AND INTEGRATION					
	670.0100	670.0200	678.0500	_			
	FIELD SYSTEM	ITS	COMMUNICATIONS				
	INTEGRATOR	DOCUMENTATION	SYSTEM TESTING				
LOCATION	L.S.	L.S.	L.S.				
PROJECT 1320-16-71	1	1	1	=			
TOTAL	1	1	1	_			
					FIBER OPTIO	CABLE	678.0036
	FIBER (OPTIC SPLICE					INSTALL FIBER
		678.0200	678.0300	_			OPTIC CABLE
		FIBER OPTIC					OUTDOOR PLANT
		SPLICE	FIBER OPTIC		471041		36-CT
		ENCLOSURE	SPLICE		ATION		L.F.
LOCATION	LOCATION	EACH	EACH		<u>T 90TH ST - EXCV6 AT STH 11 AT ST</u>	H 31	12180
STH 11 AT 90TH ST	CV1	1	4	TOTAL			12180
STH 11 AT 84TH ST	CV2	1	4				
STH 11 AT WILLOW RD	CV3	1	4				
STH 11 AT PIKE RIVER PATHWAY	CV4	1	4				
STH 11 AT OAKES RD	CV5	1	4				
STH 11 AT STH 31 FOTAL	EXCV6	 5	24	_			
TOTAL		3	24				
	FIBER OPTIC COMM	IUNICATIONS EQUIPMENT		_			
		678.0600	INCIDENTAL TO				
			678.0600				
		INCTALL	CAT-5E CABLE				
		INSTALL ETHERNET	5-FT CONTRACTOR				
		SWITCHES	FURNISHED				
LOCATION	LOCATION	EACH	EACH		RADIO COMMUNICAT	IONS FOUIPMENT	
STH 11 AT 90TH ST	EXCB1	1	1			060.18	SPV.0060.19
STH 11 AT 84TH ST	EXCB1	1	1				RANSPORTING AND INSTALLING
STH 11 AT WILLOW RD	EXCB1	1	1			IISHED RADIO	STATE FURNISHED RADIO
STH 11 AT PIKE RIVER PATHWAY	EXCB1	1	1		INTERCON	NECT UNITS	INTERCONNECT UNITS
STH 11 AT OAKES RD	EXCB1	<u> </u>	1	LOC	ATION I	_S	LS
OTAL		5	5	STH 11 AT CTH H		1	
				STH 11 AT 90TH ST			1
	FIBER	OPTIC TRACER	00110000	TOTAL		1	1
		655.0510	SPV.0090.01				
		ELECTRICAL WIRE TRAFFIC	FIBER OPTIC				
		SIGNALS	WARNING				
		12 AWG	WARNING TAPE				
LOCATION		L.F.	L.F.				
CCB1 AT STH 11 AT 90TH ST - EXCV6 A	T STH 11 AT STH 31	12180	12180	-			
OTAL		12180	12180	_			PAGE 4 OF
20-16-71	HWY: STH 11	COUNTY: RAC	INE IN	IISCELLANEOUS QUANTITIES			SHEET:

STH 11 FROM CTH H TO STH 31 ALL ITEMS ARE CATEGORY 0010

				TRAFFIC CONTROL				
		643.5000	643.0300	643.0410	643.0420	643.0900	643.1050	649.0150
			TRAFFIC CONTROL	TRAFFIC CONTROL	TRAFFIC CONTROL	TRAFFIC CONTROL	TRAFFIC CONTROL	TEMPORARY MARKING LINE
		TRAFFIC CONTROL	DRUMS	BARRICADES TYPE II	BARRICADES TYPE III	SIGNS	SIGNS PCMS	REMOVABLE TAPE 4-INCH
LOCATION		EACH	DAY	DAY	DAY	DAY	DAY	DAY
PROJECT 1320-16-71		0.85					10	-
CTH H			13		2	3		
90TH ST SOUTH SIDE PED ACCOMODATIONS				2	4	4		
90TH ST - STA 268+30			582	36	36	156		1920
STA 268+30 - WILLOW RD			708	12	84	102		1920
84TH ST/WILLOW RD			45		4	6		
WILLOW RD - PIKE RIVER PATH			205			35		
PIKE RIVER PATH - STA 319+00			215			35		
OAKES RD			37		4	6		
STA 319+00 - COZY ACRES RD			210		-	35		
COZY ACRES RD - STH 31			406		-	35		
STH 31			202		12	18		
UNDISTRIBUTED			249	5	16	43		380
	TOTAL	0.85	2872	55	162	478	10	4220

		EXPOSING INFRASTRUCTURE	
		SPV.0060.20	SPV.0060.21
		EXPOSING INFRASTRUCTURE	EXPOSING INFRASTRUCTURE
LOCATION		UNPAVED	PAVED
UNDISTRIBUTED		6	12
	TOTAL	6	12

PAGE 5 OF 5

Ε PROJECT NO: 1320-16-71 HWY: STH 11 COUNTY: RACINE MISCELLANEOUS QUANTITIES SHEET: PLOT BY : JGF

TYPE II PERMANENT SIGNING 1320-16-71

						637.2210	637.2230	637.2215	638.2102	638.2602	638.3000	634.0618		
						SIGNS	SIGNS	SIGNS	MOVING	REMOVING	REM			
	SIGN			SIGN		TYPE II	TYPE II	TYPE II	SIGNS	SIGNS	SMALL	POSTS	MOUNT	
SIGN	CODE	SIGN		SIZE		REFLECTIVE	RELFECTIVE	REFLECTIVE	TYPE	TYPE II	SIGN	WOOD	ON SAME	
NO.	& SIZE	MESSAGE	W	Х	Н	Н	F	H FOLDING	II		SUP	4" X 6" X 18'	POST AS	
			[IN.]	Х	[IN.]	[SF]	[SF]	(SF)	[EA]	(EA)	[EA]	[EA]	SIGN#	REMARKS / NEW SIGN LOCATION
1	R5-1(3)		36	х	36	9.000								MOUNT ON SIGNAL POLE
2	R1-1F(3)		36	Χ	36			7.460						MOUNT ON SIGNAL POLE
3	R5-1(3)		36	Χ	36	9.000								MOUNT ON SIGNAL POLE
4	R1-1F(3)		36	Х	36			7.460						MOUNT ON SIGNAL POLE
5	R1-1F(3)		36	Χ	36			7.460						MOUNT ON SIGNAL POLE
6	R5-1(3)		36	Χ	36	9.000								MOUNT ON SIGNAL POLE
		UNDISTRIBUTED				20.000	20.000		3	3	3	3		
		TOTALS				47.000	20.000	22.380	3	3	3	3		

SHEET: 1 OF 1

E COUNTY: RACINE SHEET: PROJECT NO: 1320-16-71 HWY: STH 11 MISCELLANEOUS QUANTITIES - PERMANENT SIGNING PLOT DATE: 7/18/2021 PLOT BY : DOTTAH PLOT NAME: 030501_MQ.pdf PLOT SCALE : 1:1

Standard Detail Drawing List

08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
09в02-10	CONDUIT
09в04-11	PULL BOX
09D02-03	SIGNAL CONTROL CABINET
09E06-05	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09н09-02	COMMUNICATION VAULT TYPE 1
15С11-09В	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15D20-05B	TRAFFIC CONTROL, SINGLE RIGHT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY
15D21-07A	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D30-06C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

6

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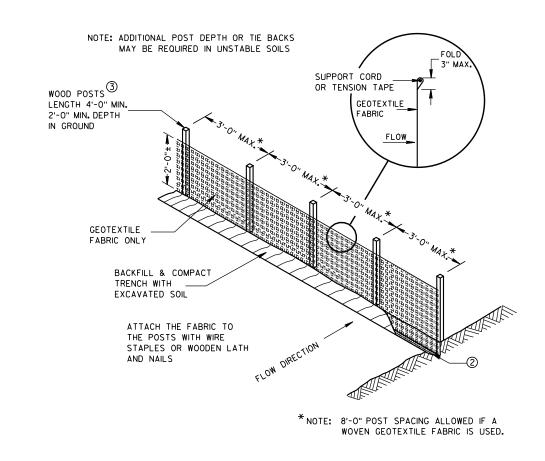
TYPICAL APPLICATION OF SILT FENCE

6

b

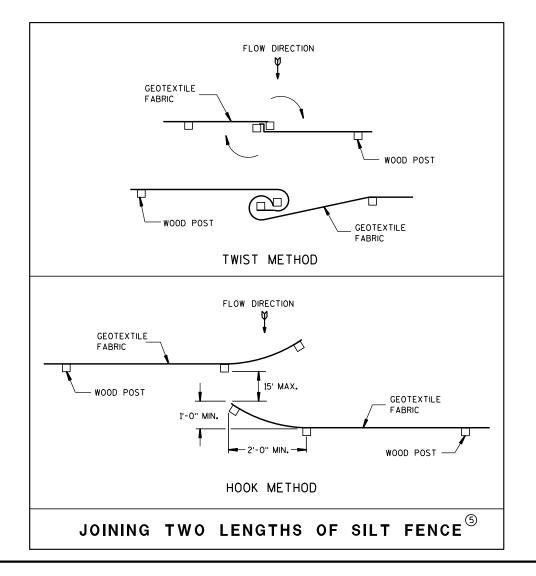
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-ROADWAY -ROADWAY SHOULDER SHOULDER — DITCH DIKE INSLOPE INSLOPE (1) --≪ >→ **₹ ₹ INSLOPE** INSLOPE SHOULDER SHOULDER ROADWAY - ROADWAY SITUATION 2 SITUATION 1

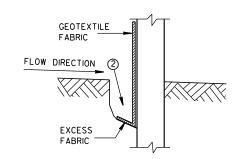
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



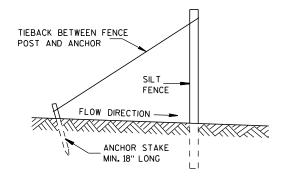
GENERAL NOTES

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.

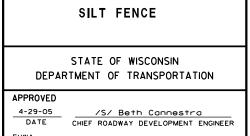


TRENCH DETAIL



SILT FENCE TIE BACK

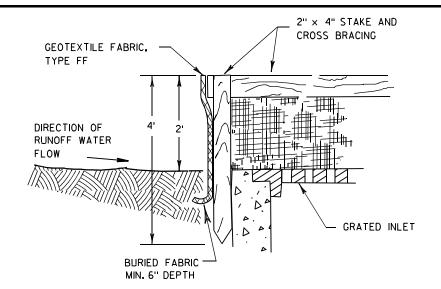
(WHEN REQUIRED BY THE ENGINEER)

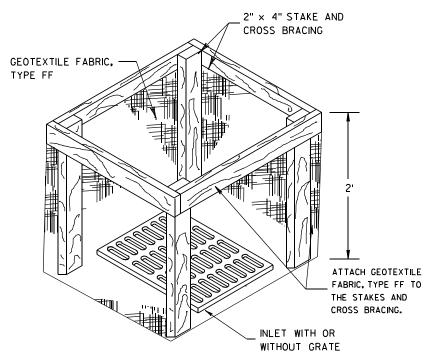


SILT FENCE

6

S.D.D. 8 E 9-6





INLET PROTECTION, TYPE A

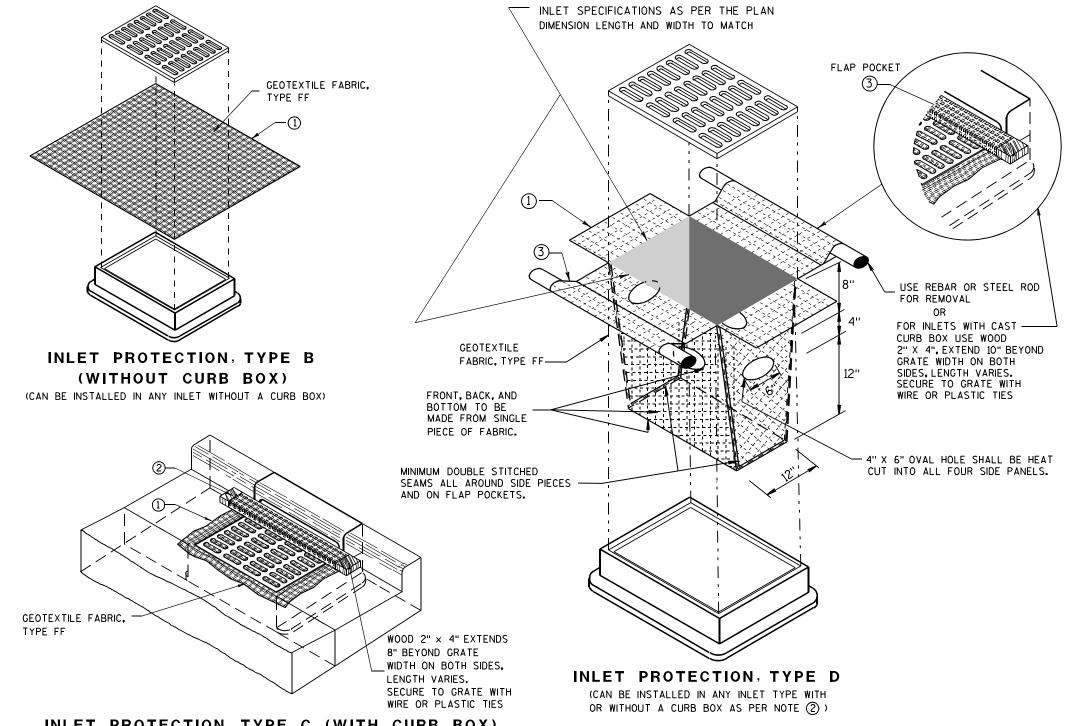
GENERAL NOTES

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 6

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02 /S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER

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ARROW MARK SHALL BE INSCRIBED IN PAVEMENT SURFACE 1/4" TO 3/8" DEEP AT EACH LOCATION WHERE CONDUITS ARE PLACED UNDER THE PAVEMENT CONDUIT EDGE OF PAVEMENT OR BACK OF CURB

PLAN VIEW

ARROW MARK

ARROW MARK INSCRIBED IN PAVEMENT SURFACE OVER € OF CONDUIT (BOTH ENDS) — 2'-0"*—*∕ NORMAL PAVEMENT EDGE OF THICKNESS **PAVEMENT** PAVEMENT OR BACK OF CURB BASE COURSE BACKFILL SLOPE 1/8"/FT. EITHER DIRECTION *DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES - CONDUIT, PITCH TO DRAIN WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

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.

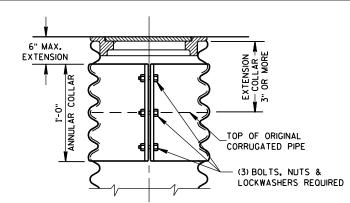
CONDUIT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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

DIMENSION IN INCHES				COF	RRUGAT	ED ST	EEL P	IPE		
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	FRAME AND COVER			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.



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

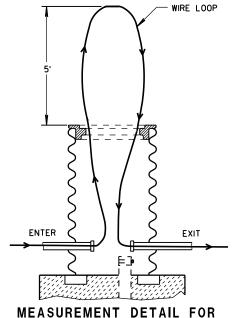
CONDUIT BEFORE INSTALLATION OF

ELECTRICAL USE) ON ALL NONMETALLIC

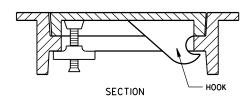
SPECIFICATIONS)

AGGREGATE

INCHES BELOW GRADE AND COVER IT WITH

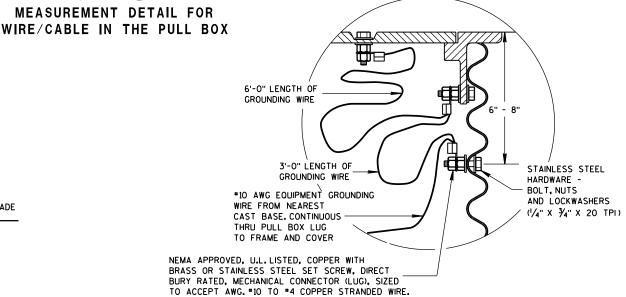


воттом

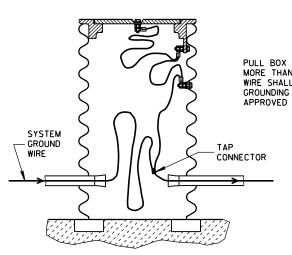


ALTERNATE COVER (LOCKING)

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 6

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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 TRAFFIC LOADS.

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

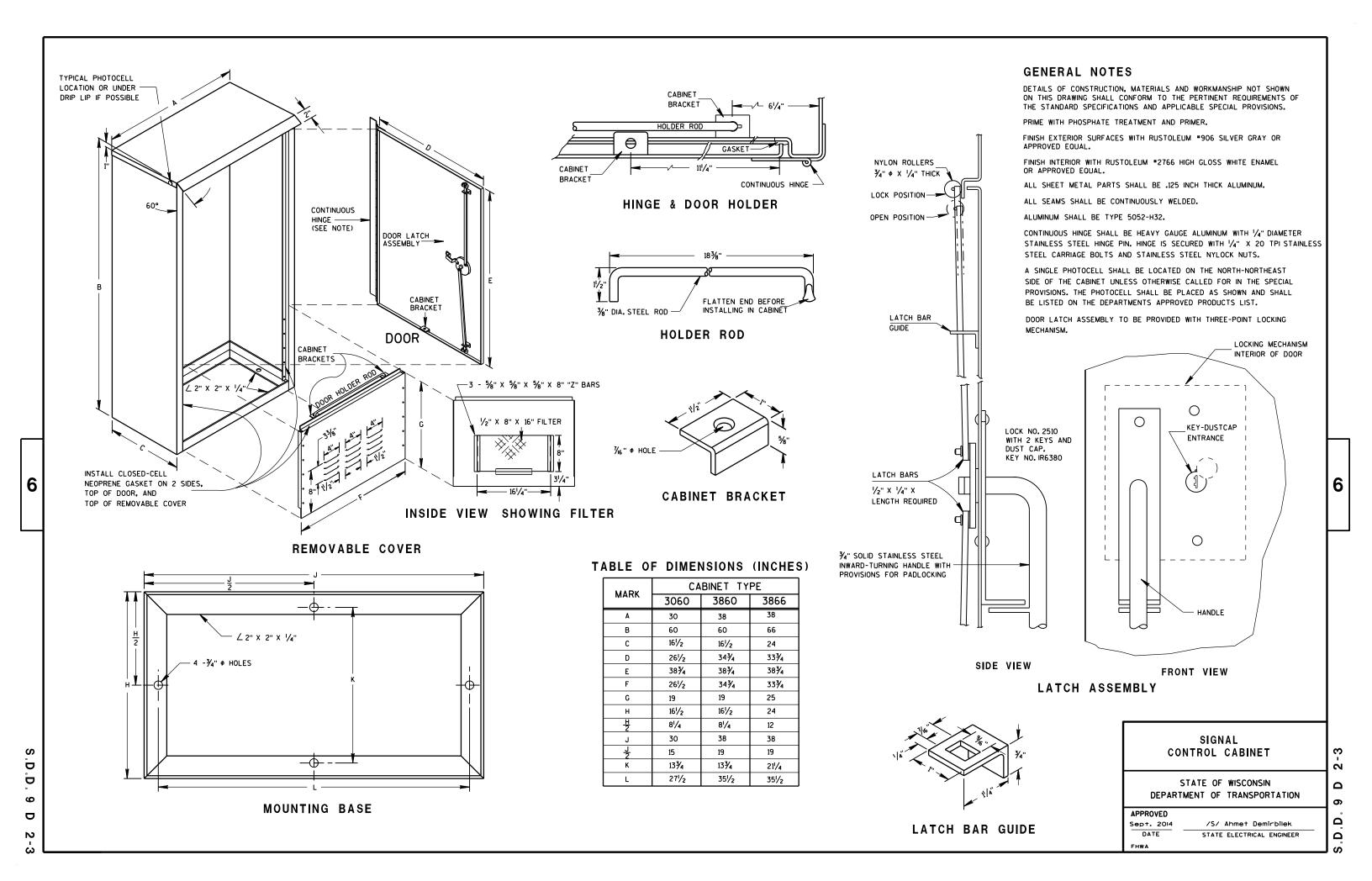
GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED

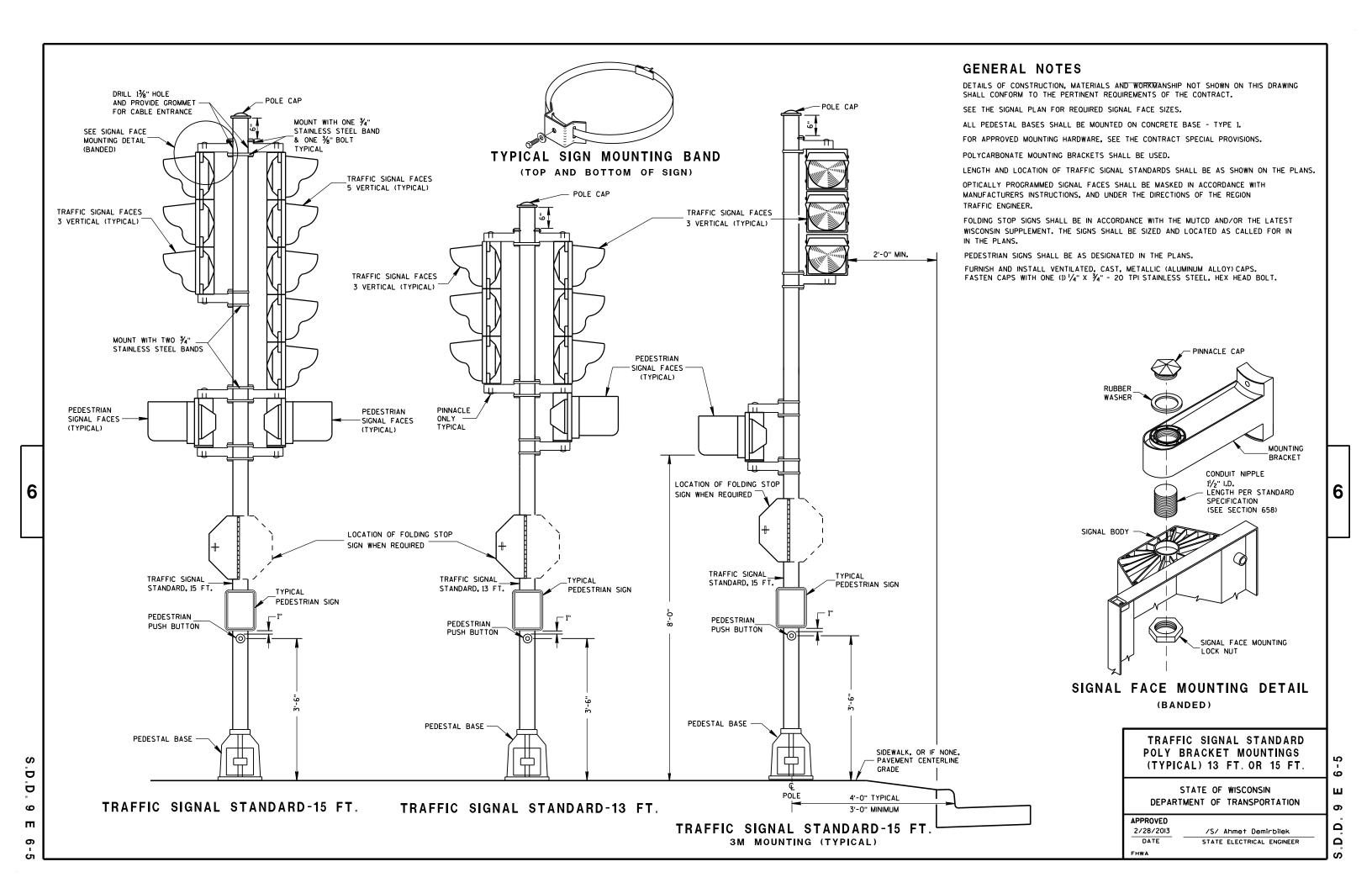
WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER

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

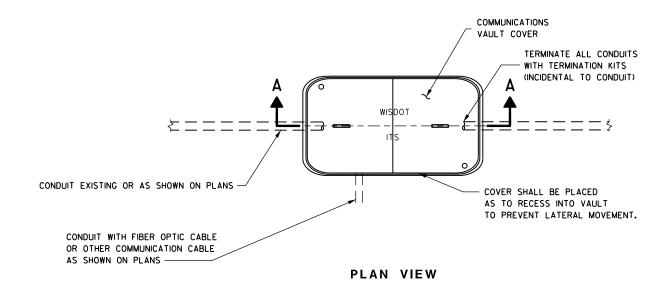
Ö Ö 9 \Box

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SECTION A-A



COMMUNICATIONS VAULT TYPE 1

GENERAL NOTES

PROVIDE VAULT WITH OPEN BASE.

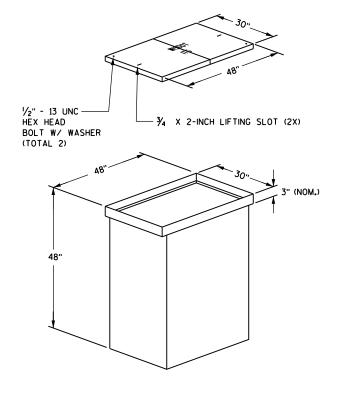
COVER SHALL HAVE A MINIMUM DESIGN LOAD OF 15,000 LBS AND SHALL LOCK.

ALL OPENINGS IN STRUCTURE MUST BE MACHINED AT TIME OF FABRICATION, OR PUNCH DRIVEN AT TIME OF PLACEMENT.

VAULTS SHALL BE OF ONE-PIECE CONSTRUCTION. TWO-PIECE/STACKABLE VAULTS WILL NOT BE PERMITTED.

FIELD PLACEMENT OF COMMUNICATIONS VAULTS SHALL BE AS DIRECTED BY THE ENGINEER.

FIBER TRACER MARKER POSTS SHALL BE CONSTRUCTED WITH HIGH-IMPACT PLASTIC MATERIAL WHICH IS FADE RESISTANT AND UV STABLE. ALL HARDWARE SHALL BE STAINLESS STEEL AND CONTAIN A MINIMUM OF FIVE STANDARD TERMINALS.



ISOMETRIC VIEW

COMMUNICATION VAULT TYPE 1

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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

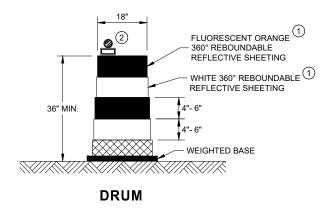
S.D.D. 9 H 9-2

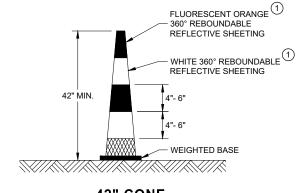
6

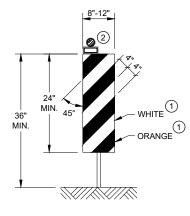
<u>60</u> 15C

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.



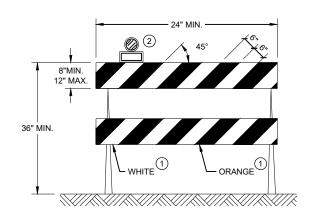




42" CONE DO NOT USE IN TAPERS ½ SPACING OF DRUMS

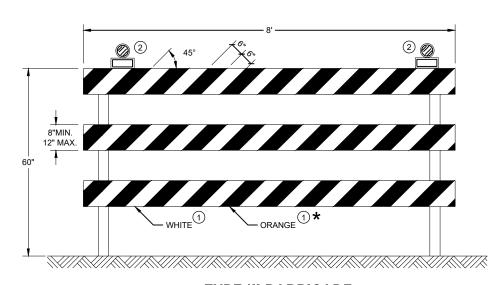
VERTICAL PANEL

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

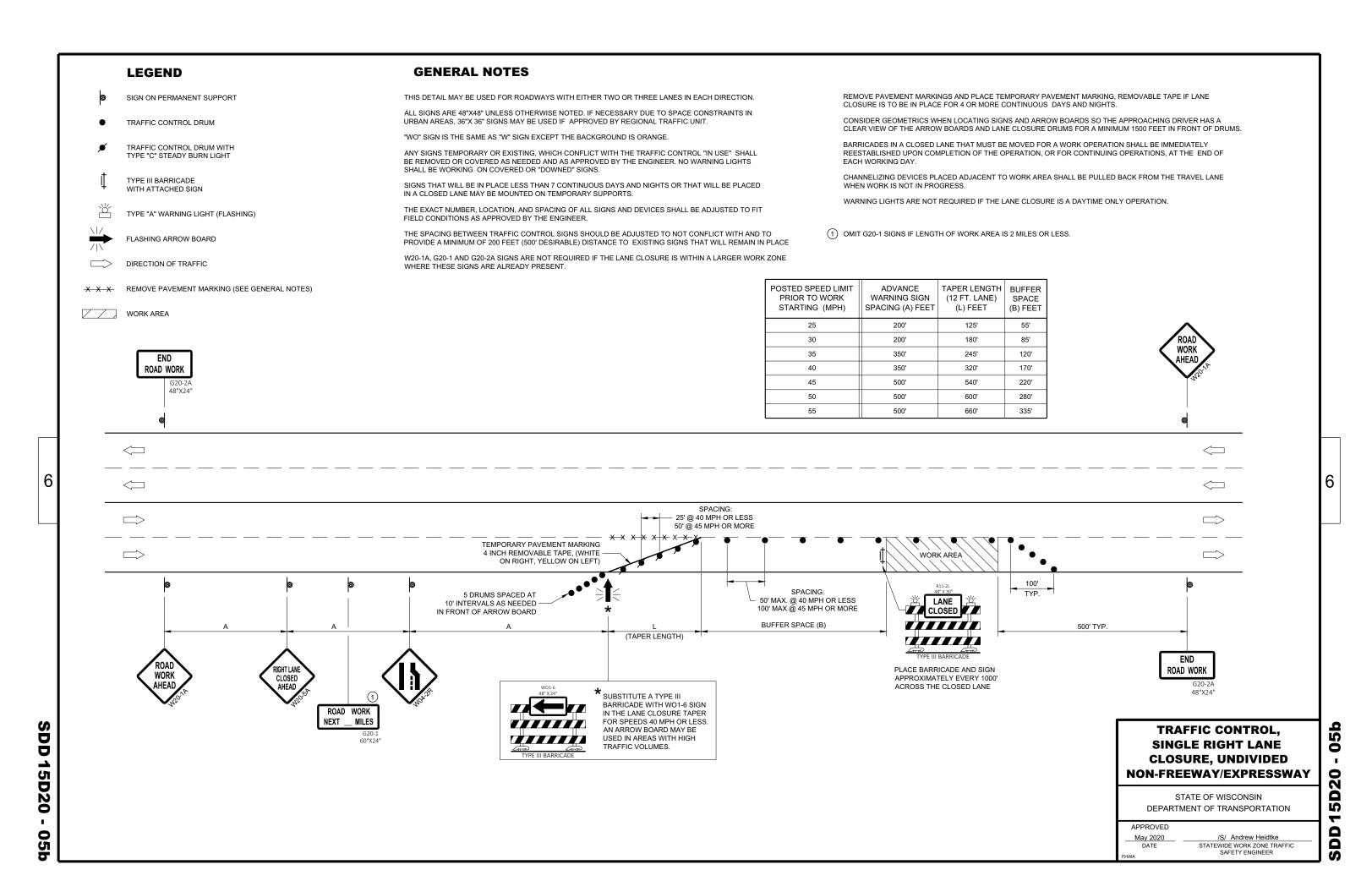
IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

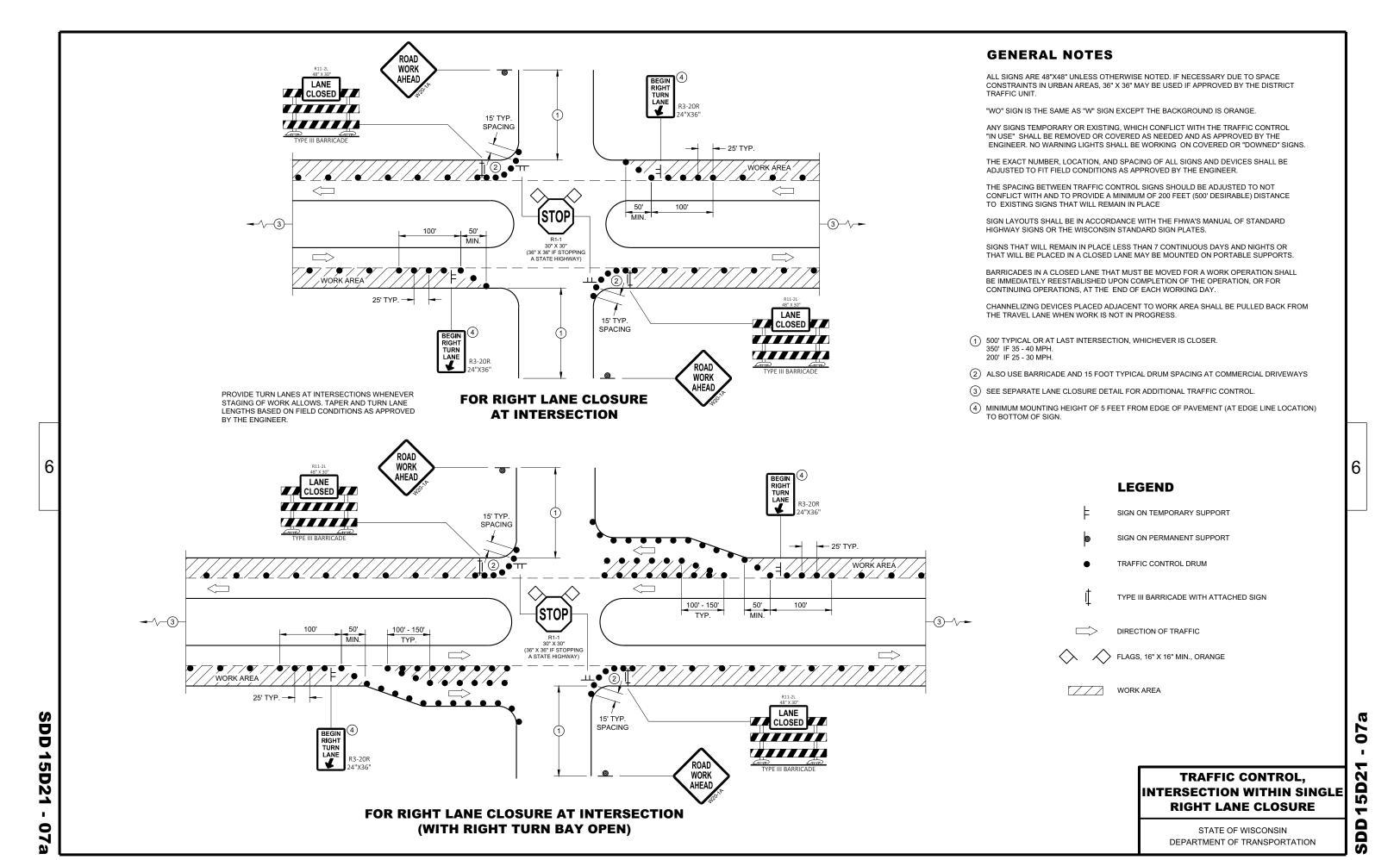
* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

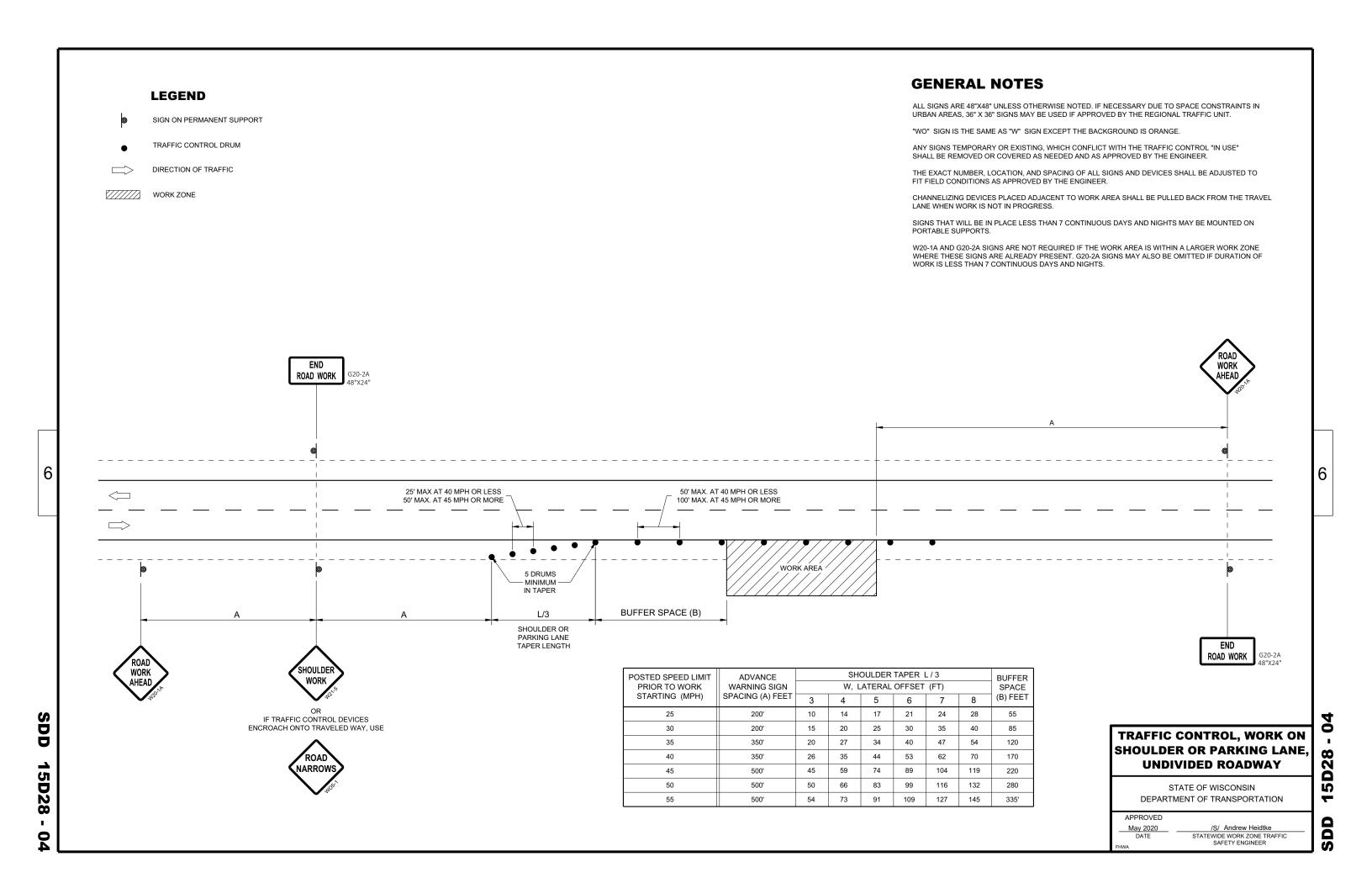
CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

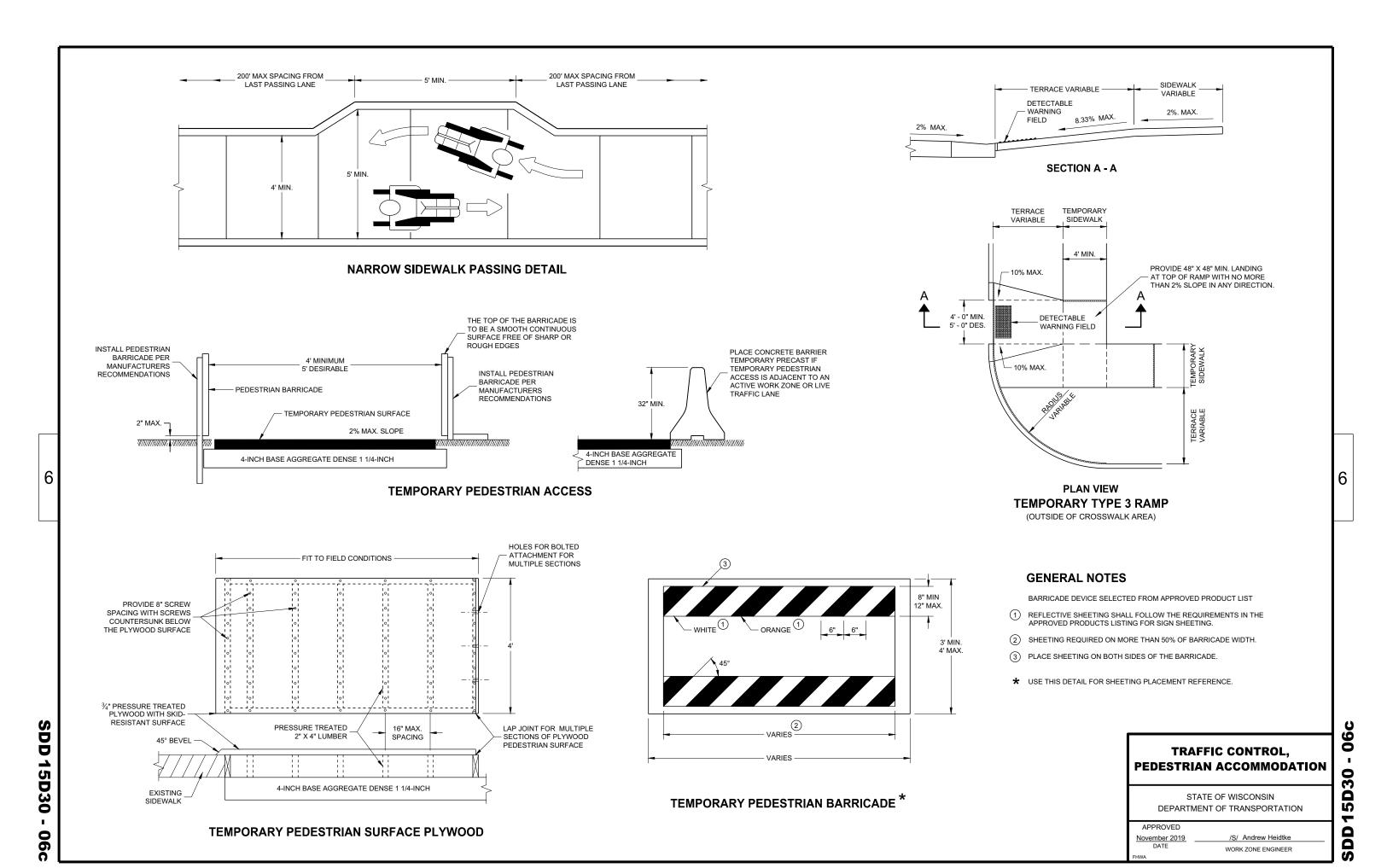
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

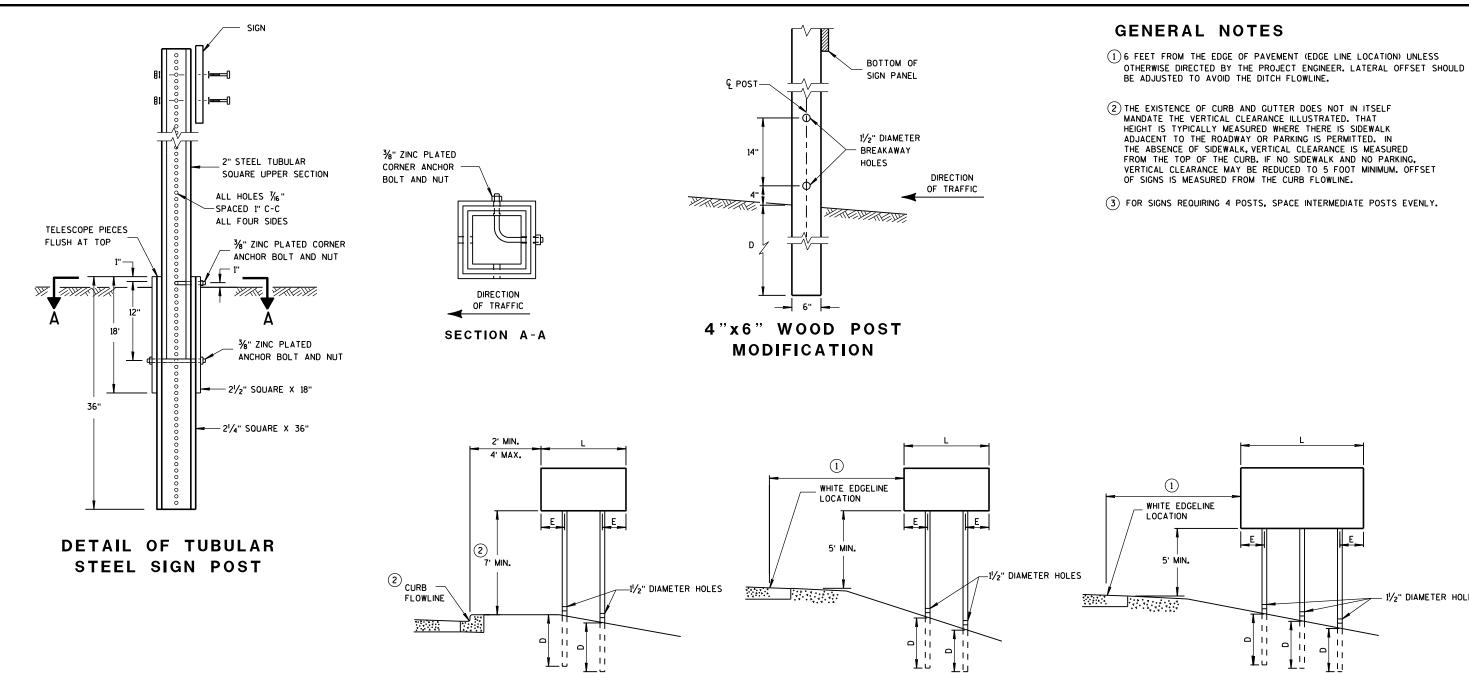
APPROVED	
May 2021	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	











TUBULAR STEEL POSTS

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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

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

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

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- 11/2" DIAMETER HOLES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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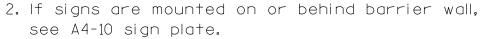
S

DEPARTMENT OF TRANSPORTATION

/S/ Andrew Heidtke WORK ZONE ENGINEER

APPROVED

June 2017 DATE



The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (\pm). 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" (\pm).

- 3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is $5'-3''(\frac{+}{2})$.
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. The (±) tolerance for mounting height is 3 inches.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.

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

** Curb Flowline

D
White Edgeline Location

*

6'-3"(±)

D |

Outside Edge

of Gravel

White Edgeline
Location

Outside Edge
of Gravel

d.

POST EMBEDMENT DEPTH

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

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.

HWY:

* 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.

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

Matther & Rawk For State Traffic Engineer

DATE 5/13/2020 PLATE NO. _A4-3.22

SHEET NO:

Ε

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.dgn

PROJECT NO:

PLOT DATE: 13-MAY 2020 1:04

COUNTY:

PLOT BY : mscj9h

PLOT NAME :

PLOT SCALE: \$\$.....plo†scale.....\$\$ WISDOT/CADDS SHEET 42

APPROVED



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'' (±) 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

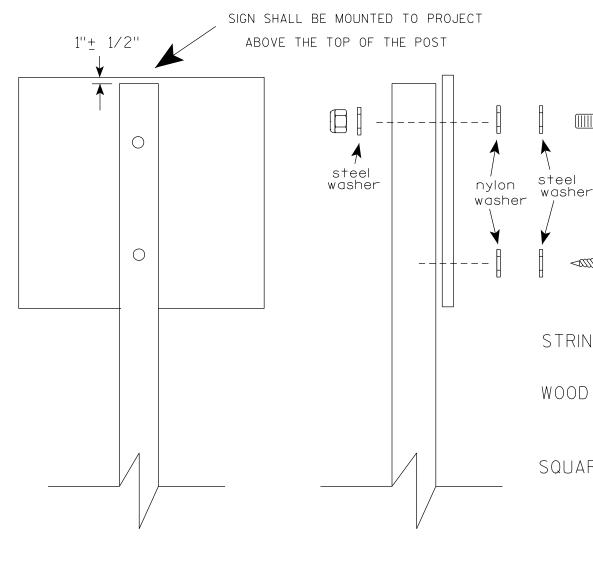
WISDOT/CADDS SHEET 42

OF TYPE II SIGNS ON MULTIPLE POSTS

TYPICAL INSTALLATION

SHEET NO:

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



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either:

- a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
- b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts

WOOD POSTS $(4" \times 6")$

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN) 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - $\frac{1}{32}$ " (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 $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL 1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .080 NYLON

Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS
TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew

For State Traffic Engineer

SHEET NO:

DATE <u>4/1/202</u>0

PLATE NO. <u>44-8.9</u>

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A48.DGN



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

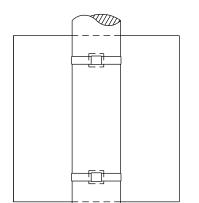
DATE 2/05/15

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

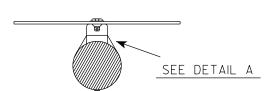
For State Traffic Engineer

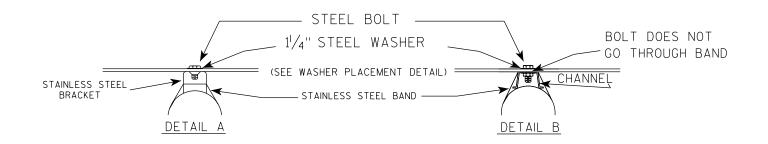


BANDING

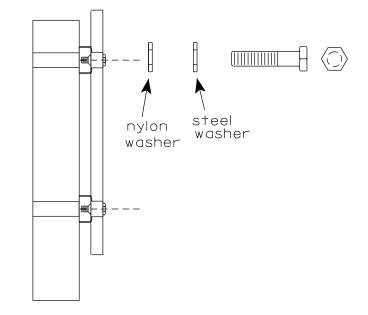


SINGLE SIGN





WASHER PLACEMENT



HWY:

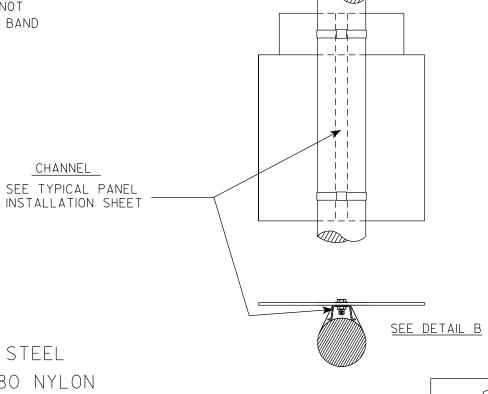
WASHERS (ALL POSTS) -

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

GENERAL NOTES

- 1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
- 2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
- 3. Banding and assembly bracket shall be stainless steel. All bands shall be $\frac{3}{4}$ " in width and 0.025" thickness.
- 4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

State Traffic Engineer

Ε

APPROVED

DATE 6/10/19 PLATE NO. A5-9.4

COUNTY:

PLOT DATE: 10-JUN 2019 4:10

PLOT NAME :

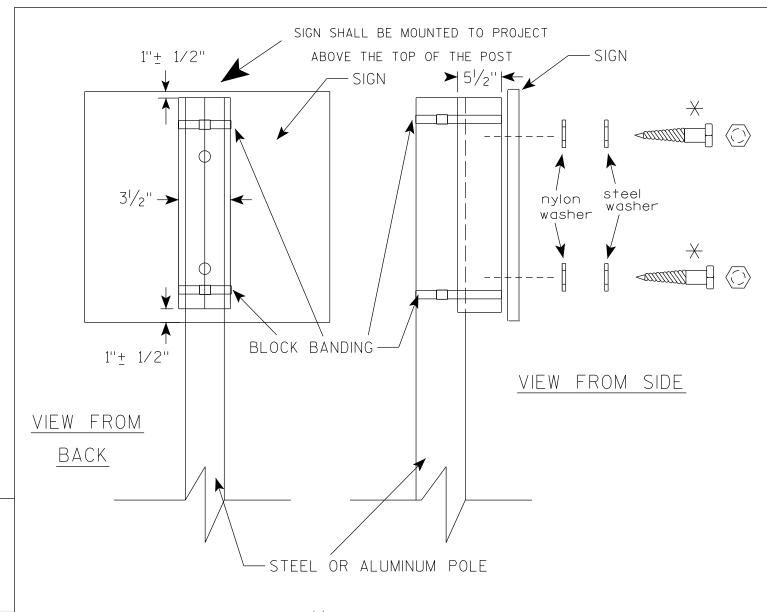
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

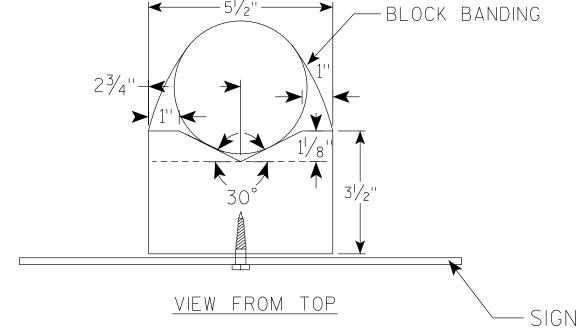
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn

PROJECT NO:

PLOT BY: mscj9h

CHANNEL





GENERAL NOTES

- 1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
- 2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, $\frac{3}{4}$ " WIDTH AND 0.025" THICKNESS
- 3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS.

 SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
- 4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
- 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE $1\frac{1}{4}$ " O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ "
- 8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $\frac{3}{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

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

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

| APPROVED

For State Traffic Engineer

SHEET NO:

Matthew R

DATE 6/10/19

PLATE NO. _A5-10.2

PROJECT NO:

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

PLOT DATE: 10-JUN 2019 4:15

PLOT BY: mscj9h

WISDOT/CADDS SHEET 42

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:

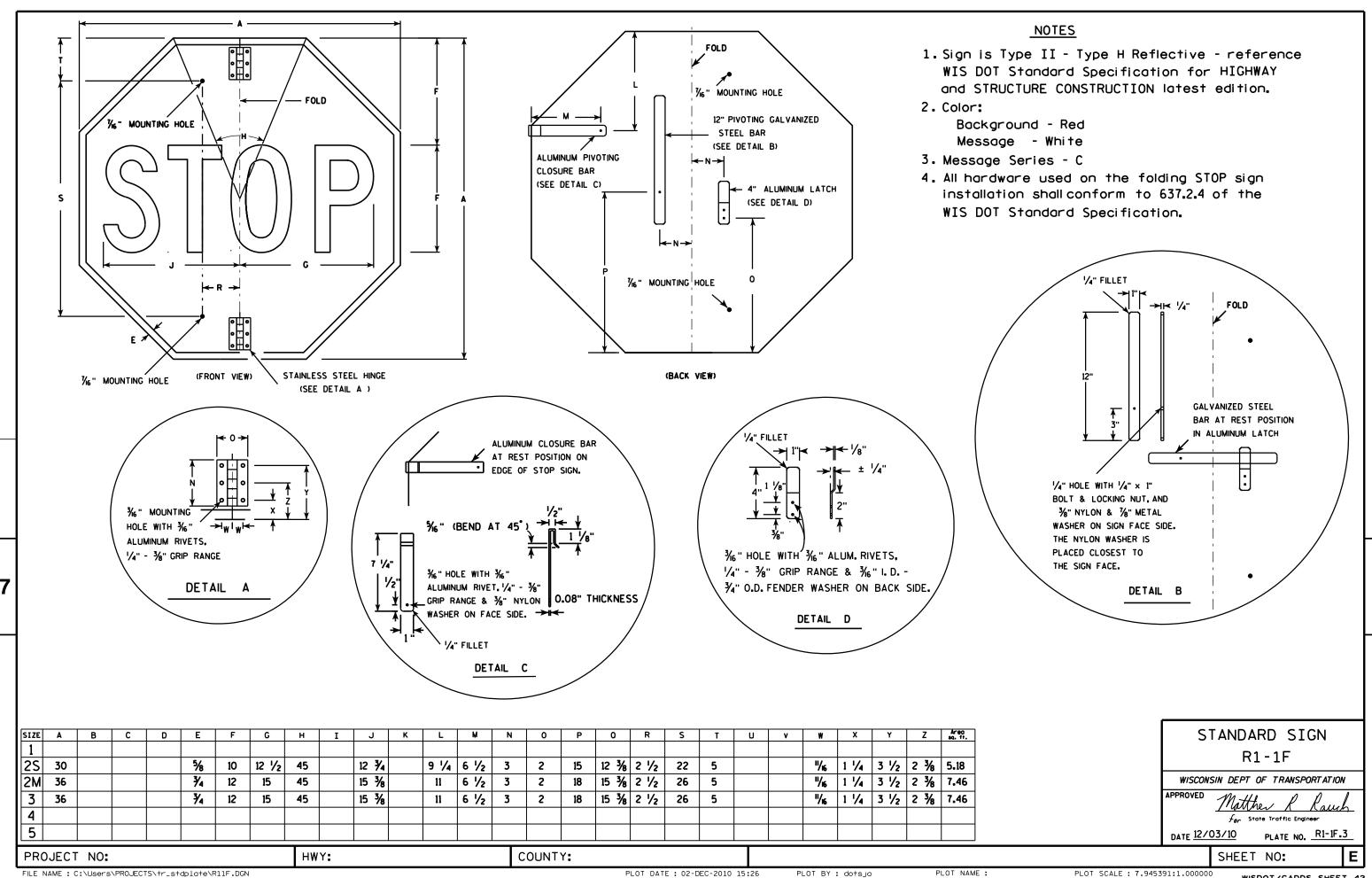
PLOT DATE: 30-SEP-2009 09:31

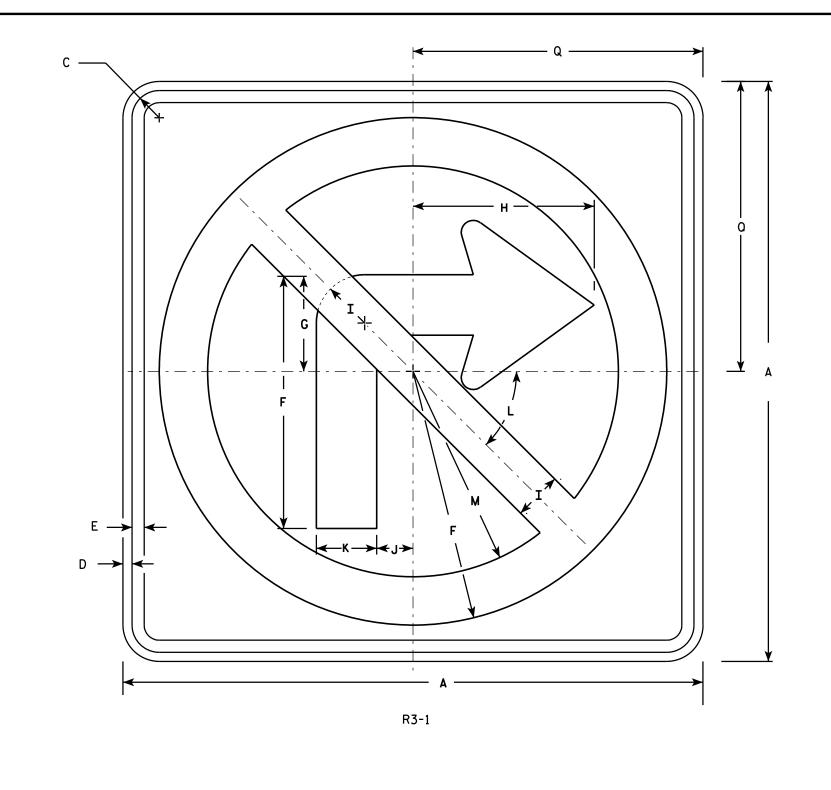
PLOT BY : ditjph

PLOT NAME :

PLOT SCALE : 5.561773:1.000000

5.561773:1.000000 WISDOT/CADDS SHEET 42

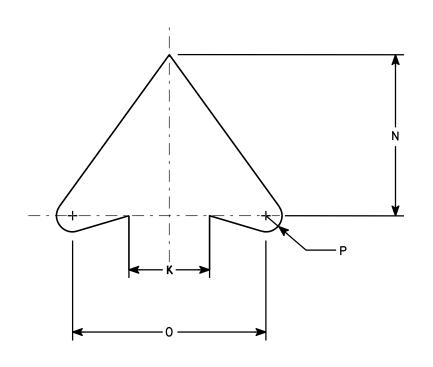




- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

PLOT NAME :

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	V	W	Х	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	4 5	8 ½	5	6	1/2	12										4.0
2M	36		1 %	5/8	3/4	15 ¾	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		1 5/8	5/8	3/4	15 ¾	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		1 %	5/8	3/4	15 ¾	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0
PRO	JECT	JECT NO: HWY:											СО	UNTY:													

STANDARD SIGN R3-1

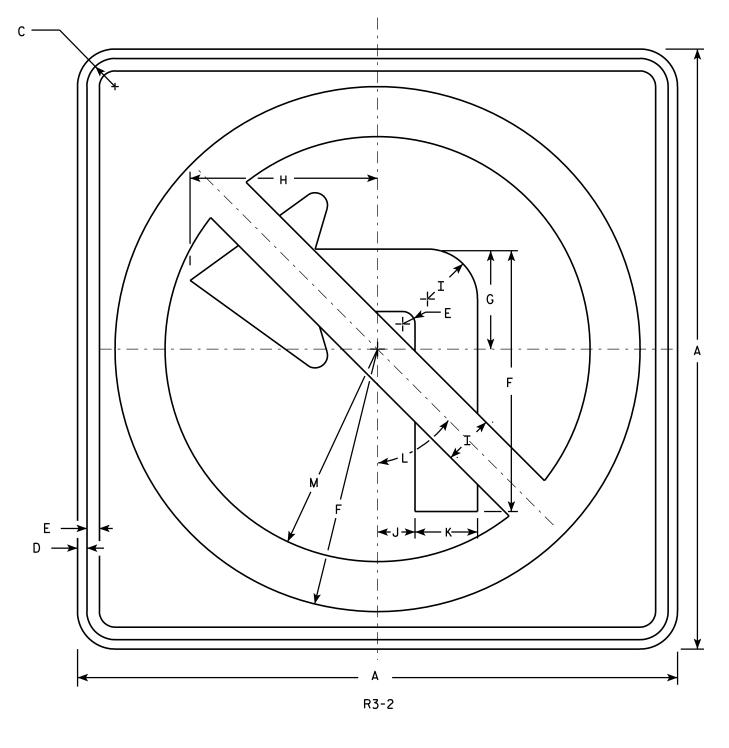
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

DATE12/08/10

PLATE NO. __R3-1.5

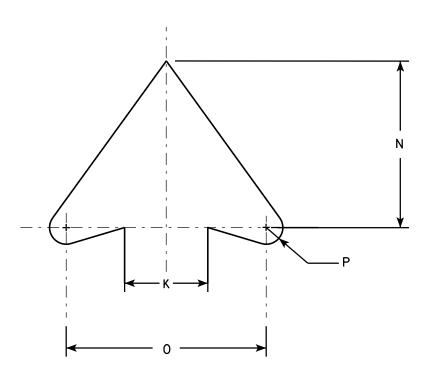
SHEET NO:



- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	₩	X	Y	Z	Area sq. ft.
1	24		1 1/8	3⁄8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
25	24		1 1/8	3∕8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 5/8	5∕8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 ½	9	3/4											9.0
3	36		1 1/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 ½	9	3/4											9.0
4	36		1 1/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 ½	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0

COUNTY:

STANDARD SIGN R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

 $f_{\it or}$ State Traffic Engineer

DATE 12/08/10

PLATE NO. R3-2.10

SHEET NO:

HWY:

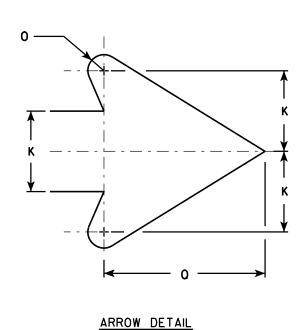
PROJECT NO:

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 - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



c	* *
	G V A I I I I I I I I I

l																											
SIZE	Α	В	С	D	E	F	G	н	I	J	K	L	M	N	0	P	0	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
25	24		1 1/8	3/8	1/2		4 3/4	13 1/4	6	2	2 1/2	5 1/4	10 1/2	45°	1/2		5										4.0
2M	36		1 %	5⁄8	3/4		7 1/8	19 1/8	9	3	3 3/4	7 1/8	15 ¾	45°	3/4		7 5/8										9.0
3	36		1 %	5/8	3/4		7 1/8	19 1/8	9	3	3 3/4	7 1/8	15 ¾	45°	3/4		7 %										9.0
4	36		1 %	5/8	3/4		7 1/8	19 %	9	3	3 3/4	7 1/8	15 ¾	45°	3/4		7 %										9.0
5	36		1 %	5/8	3/4		7 1/8	19 1/8	9	3	3 3/4	7 1/8	15 ¾	45°	3/4		7 %										9.0

COUNTY:

R3-4

STANDARD SIGN R3-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

 $f_{\it or}$ State Traffic Engineer PLATE NO. __R3-4.11

DATE12/08/10 SHEET NO:

PLOT NAME :

PLOT BY: dotsja

PLOT SCALE: 5.959043:1.000000

WISDOT/CADDS SHEET 42

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R34.DGN

HWY:

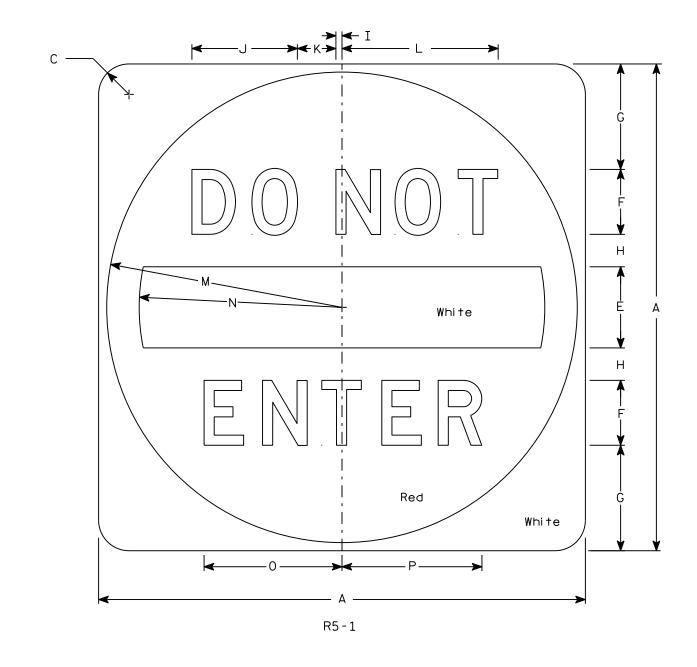
PROJECT NO:

PLOT DATE: 08-DEC-2010 15:34

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

Background - See detail Message - White

3. Message Series - D



SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1																											
25	30		1 1/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 %	14 1/2	12 1/2	8 1/2	8 %											6.25
2M	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 %	10 3/4											9.0
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 %	10 3/4											9.0
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 %	10 3/4											9.0
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 1/8											16.0

COUNTY:

STANDARD SIGN R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther & Rauch

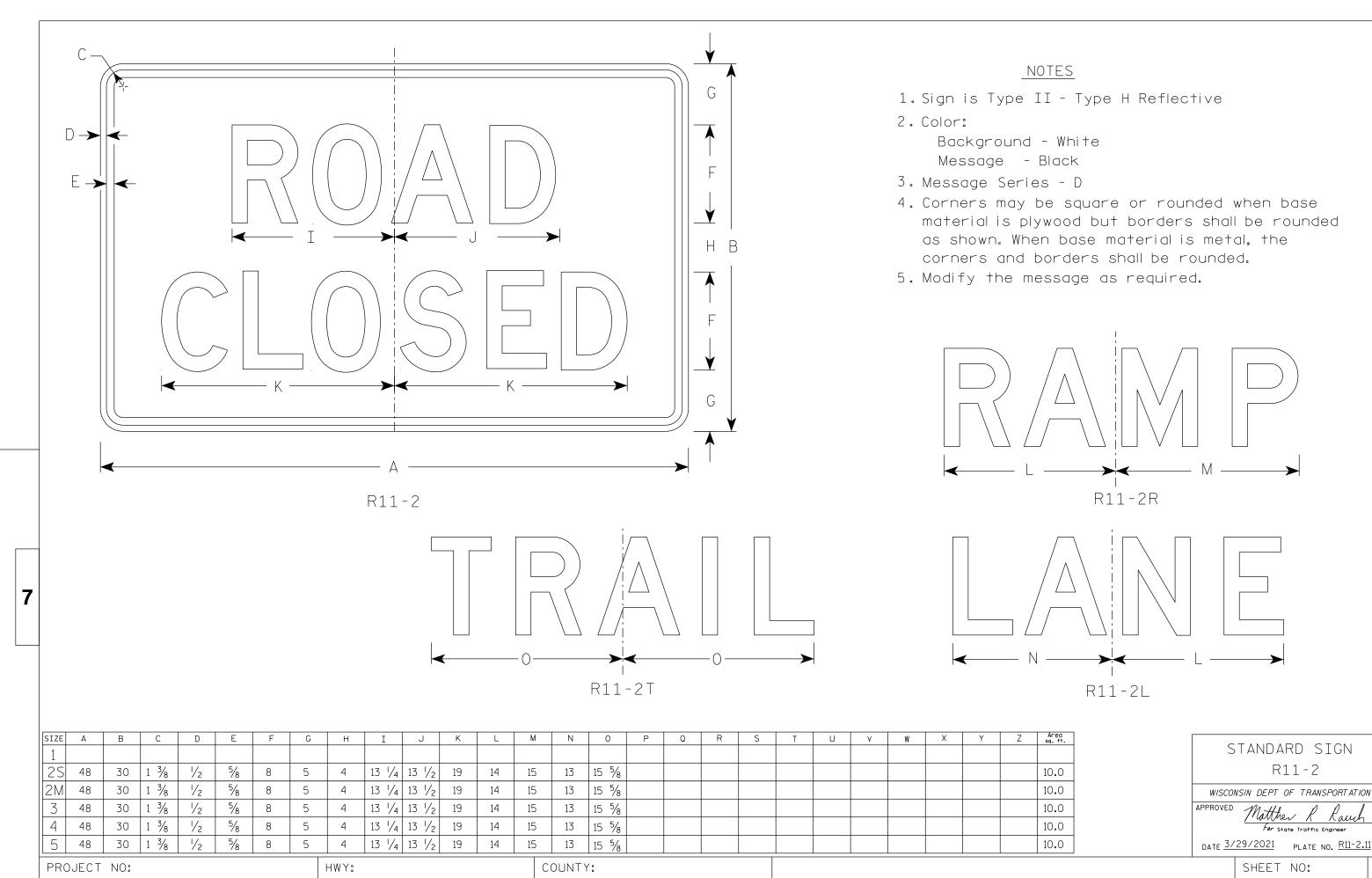
DATE <u>3/15/18</u>

8 PLATE NO. R5-1.16
SHEET NO:

PLOT SCALE : 5.914594:1.000000

HWY:

PROJECT NO:



FILE NAME : C:\Users\PROJECTS\tr_stdplate\R112.dgn

PLOT DATE: 29-MAR 2021 8:15

PLOT BY : dotc4c

PLOT NAME :

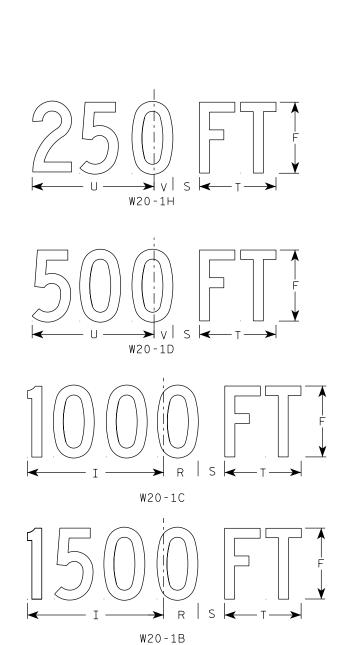
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

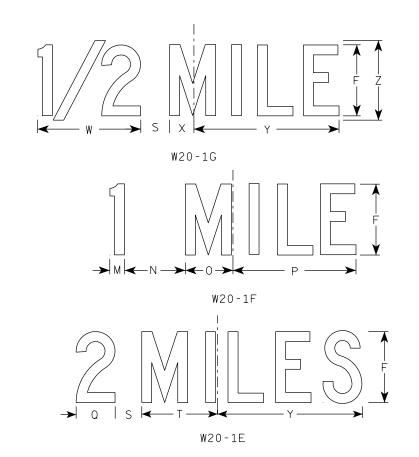
NOTES

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

Background - Orange Message - Black

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





SIZE	А	В	С	D	E	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		1 5/8	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 1/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 %	9	1 3/8	8	1 3/4	10 3/4	6	9.0
25	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1	6 %	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 ¾	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 ¾	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1	6 %	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

 f_{or} State Traffic Engineer DATE 3/25/2020 PLATE NO. W20-1.11

SHEET NO:

PROJECT NO:

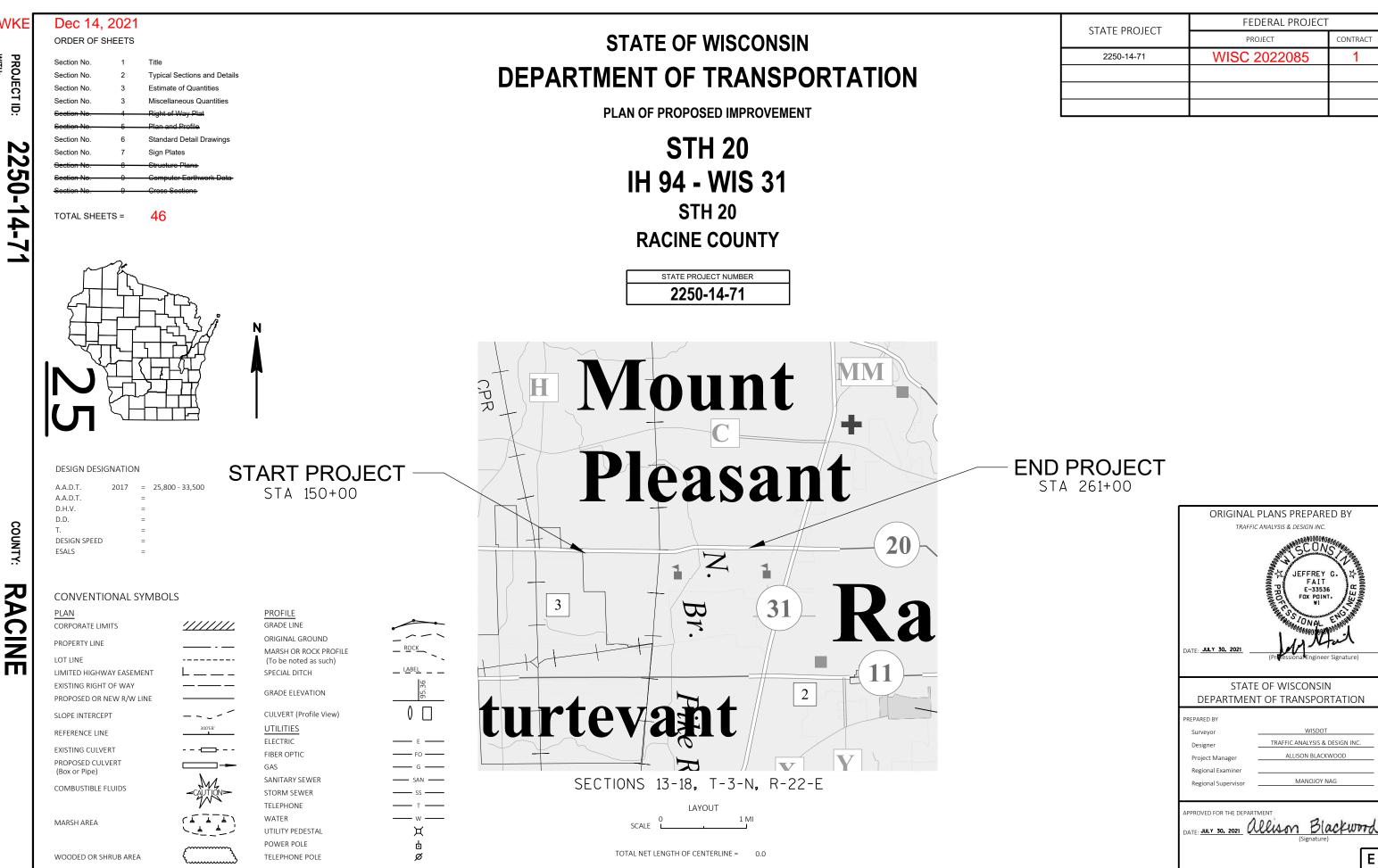
W20-1A



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov



2

GENERAL NOTES

- 1. NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.
- 2. ALL UTILITIES SHALL BE LOCATED IN THE FIELD PRIOR TO CONSTRUCTION. NOTIFY THE ENGINEER OF ANY CONFLICTS PRIOR TO CONSTRUCTION.
- 3. CONTRACTOR SHALL PROTECT SECTION CORNERS AND WITNESS TIES AT 90TH STREET.

UTILITIES

AT&T LOCAL NETWORK - COMMUNICATION LINE DALE DEFEVER 39869 LINN ST CANTON, MI 48147 (586) 242-2671 DD2579@ATT.COM

CC: J.NAVARRO@NORTHWINDTECH.COM

ATC MANAGEMENT, INC. - ELECTRICITY-TRANSMISSION CHRIS DAILEY P.O. BOX 47 WAUKESHA, WI 53187 (262) 506-6884 CDAILEY@ATCLLC.COM

CITY OF RACINE - SEWER ARA MOLITOR 730 WASHINGTON AVE, RM 304 RACINE, WI 53403 WORK NUMBER: 262-636-9487 MOBILE NUMBER: 262-770-7242 EMAIL: ARA.MOLITOR@CITYOFRACINE.ORG

FILE NAME :

MIDWEST FIBER NETWORKS LLC - COMMUNICATION LINE CORY SCHMUKI 6070 N FLINT RD GLENDALE, WI 53029 WORK: 414-459-3561 MOBILE: 414-349-2764 CSCHMUKI@MIDWESTFIBERNETWORKS.COM

PAETEC COMMUNICATIONS, LLC - COMMUNICATION LINE LORI S. KETTER
314 N. DANZ AVENUE
GREEN BAY, WI 54302-3526
414-274-9215
LORI.KETTER@WINDSTREAM.COM

AT&T WISCONSIN - COMMUNICATION LINE

MIKE VANBOVEN 411 7TH STREET RACINE, WI 53403 (262) 676-3958 MV3658@ATT.COM

LEVEL 3 COMMUNICATIONS LLC - COMMUNICATION LINE BRAHIM GADDOUR 3235 INTERTECH DR, SUITE 600 BROOKFIELD, WI 53045 WORK: 414-908-1027 MOBILE: 414-704-1026 BRAHIM,GADDOUR@LUMEN.COM

CITY OF RACINE - STREET LIGHTING ARA MOLITOR 730 WASHINGTON AVE, RM 304 RACINE, WI 53403 WORK NUMBER: 262-636-9487 MOBILE NUMBER: 262-770-7242 EMAIL: ARA.MOLITOR@CITYOFRACINE.ORG MOUNT PLEASANT STORM WATER DIST. 1 - SEWER LINDSEY WEBER 8811 CAMPUS DR MOUNT PLEASANT, WI 53406 (262) 664-7833 LWEBER@MTPLEASANTWI.GOV

RACINE WATER WORKS COMMISSION - WATER CHAD REGALIA 100 HUBBARD ST RACINE, WI 53402 262-497-4611 CHAD.REGALIA@CITYOFRACINE.ORG

ROGERS TELECOM - COMMUNICATION LINE VICKIE MORAN 4804 N 40TH ST SHEBOYGAN, WI 53083 920-459-2600 VMORAN@GABES.COM

SPRINT COMMUNICATIONS CO LP - COMMUNICATION LINE DAN HILLIARD 849 EARL ST SAINT PAUL, MN 55106 (612) 217-3526 DAN.J.HILLIARD@T-MOBILE.COM VILLAGE OF MOUNT PLEASANT - SEWER LINDSEY WEBER 8811 CAMPUS DR MOUNT PLEASANT, WI 53406 (262) 664-7833 LWEBER@MTPLEASANTWI.GOV

SPECTRUM - COMMUNICATION LINE BEAU ABUYA 1320 N DR MARTIN LUTHER KING JR DR MILWAUKEE, WI 53212 (414) 908-1343 WIS.ENGINEERING@CHARTER.COM

TDS METROCOM LLC - COMMUNICATION LINE MATTHEW SCHULTE 525 JUNCTION ROAD MADISON, WI 53717 (262) 754-3063 MATT.SCHULTE@TDSTELECOM.COM

WISCONSIN DEPARTMENT OF TRANSPORTATION - STREET LIGHTING ERIC PEREA
141 NW BARSTOW STREET
WAUKESHA, WI 53188
(262) 574-5422
ERIC.PEREA@DOT.WI.GOV

PLOT BY:

JEFF FAIT

PLOT NAME

WE ENERGIES - ELECTRICITY JAMES NELSON 7815 NORTHWESTERN AVE RACINE, WI 53406 WORK: 262-884-6740 MOBILE: 414-315-1189

WE ENERGIES - GAS/PETROLEUM CHRIS DEGRAVE 7815 NORTHWESTERN AVE RACINE, WI 53406 WORK: 262-886-7018 MOBILE: 262-939-9814 DNR

BENTON STELZEL
SOUTHEAST REGION TRANSPORTATION LIAISON
DNR SOUTHEAST REGION HEADQUARTERS
2300 N. DR. MARTIN LUTHER KING JR. DRIVE
MILWAUKEE, WI 53212
BENTON.STELZEL@WISCONSIN.GOV

WISCONSIN DEPARTMENT OF TRANSPORTATION - TRAFFIC SIGNALS DERRIN WOLFORD 141 NW BARSTOW STREET WAUKESHA, WI 53188

(262) 521-4409 DERRIN.WOLFORD@DOT.WI.GOV

WISCONSIN DEPARTMENT OF TRANSPORTATION - ELECTRICAL FIELD UNIT 935 S. 60TH STREET WEST ALLIS, WI 53214 414-266-1170

PLOT SCALE :

1"= 40'

WISDOT/CADDS SHEET 42



PROJECT NO: 2250-14-71 HWY: STH 20 COUNTY: RACINE GENERAL NOTES SHEET **E**

7/29/2021 4:42 PM

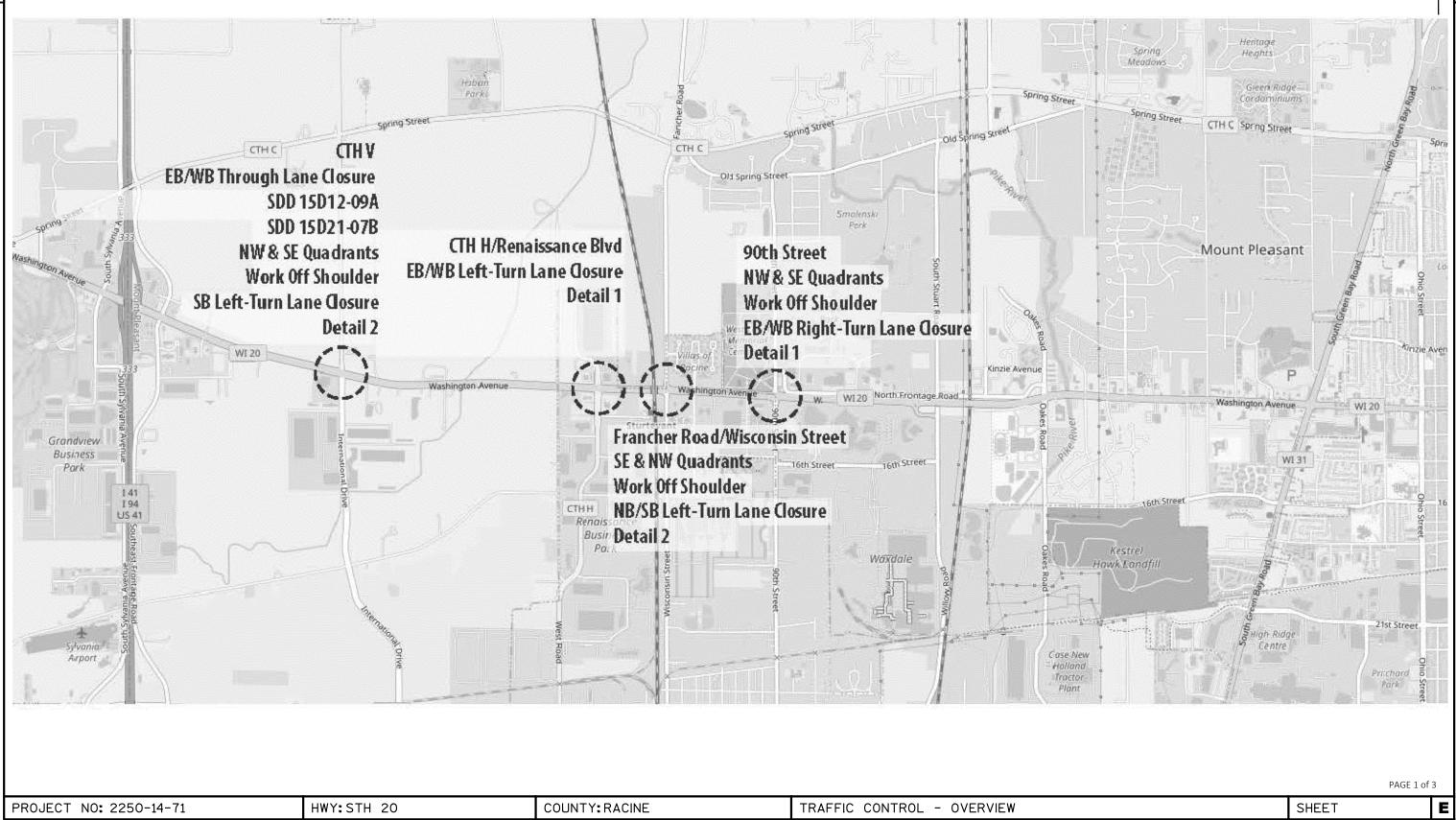
PLOT DATE :

Z:\SHARED\WI\2226-3 STH 20 CMAQ DESIGN\CAD\2250-14-71 STH 20 TITLE SHEET.DWG
LAYOUT NAME - General Notes

NOTES
1. WORK OFF SHOULDER REQUIRES WORK VEHICLE WITH AN ACTIVATED 360 DEGREE FLASHING BEACON.

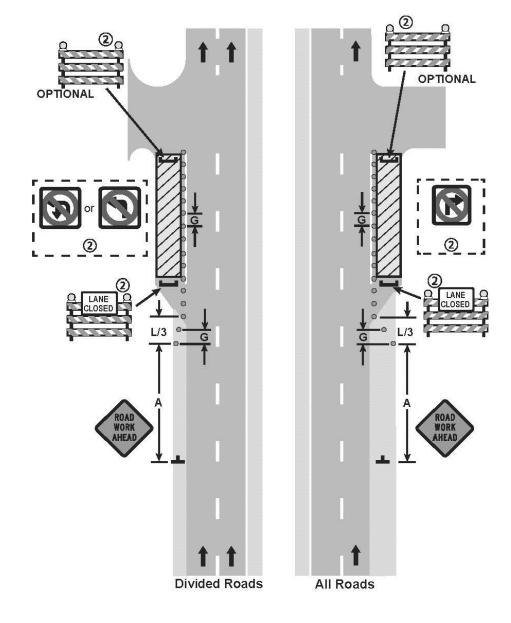
2. DO NOT INSTALL ANY SIGNS OR TRAFFIC CONTROL DEVICES WITHIN 100 FEET OF RAILROAD OVERPASSES.

3. TEMPORARY CLOSURE OF A SINGLE THROUGH LANE AND RIGHT AND LEFT TURN LANES MAY OCCUR BETWEEN THE HOURS OF 9AM AND 3PM.



FILE NAME: Z:\SHARED\WI\2226-3 STH 20 CMAQ DESIGN\CAD\STH 20 TRAFFIC CONTROL.DWG LAYOUT NAME - 024201_sp

Location	Speed Limit	Work Area	Signal Component	Closure Type	A	G	L	Notes
County H (Rennaissance Blvd) East Leg	40	Median Island	Camera (V2 & V3)	WB Lt Turn Lane	350 ft	25 ft	320 ft	
County H (Rennaissance Blvd) West Leg	40	Median Island	Camera (V1 & V4)	EB Lt Turn Lane	350 ft	25 ft	320 ft	
90th - East Leg	50	WB Rt Turn Island	Camera (V4)	WB Rt Turn Lane	500 ft	50 ft	600 ft	
90th - West Leg	50	EB Rt Turn Island	Camera (V3)	EB Rt Turn Lane	500 ft	50 ft	600 ft	



TURN LANE CLOSURES

3 DAYS OR LESS



W20-1A, 48"X48"

LANE CLOSED

R11-2L, 48"X30"



R3-2, 36"X36"



R3-1, 36"X36"



R3-4, 36"X36"



G20-2A, 48"X24"

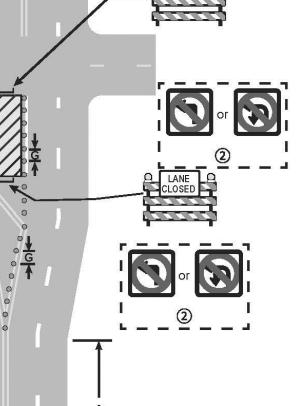
- NOTES

 1. SEE TRAFFIC CONTROL OVERVIEW SHEET FOR USAGE OF SDDS AT ALL OTHER PROJECT LOCATIONS.
- 2. TURN PROHIBITION SIGNS ARE REQUIRED IF TURNS ARE PROHIBITED.
- 3. END ROAD WORK SIGN SHOULD BE PLACED 500 FEET PAST WORK AREA.
- 4. OPTIONAL TYPE III BARRICADES ARE NOT REQUIRED.

PAGE 2 of 3

PROJECT NO: 2250-14-71 HWY:STH 20 COUNTY: RACINE SHEET E TRAFFIC CONTROL - DETAIL 1

G Notes nodify by placing east row of drums into NB County V - North Leg 35 Camera (V3) 350 ft 25 ft 245 ft Lane Lane through lane underneath V3 CTH H (Fancher) NB Through SB Lt Turn modify by placing east row of drums into NB 45 50 ft 420 ft Camera (V4) 500 ft /Wisconsin -North Leg Lane hrough lane underneath V4 CTH H (Fancher) SB Through **NB Lt Turn** modify by placing west row of drums into NB 25 ft 35 350 ft 245 ft Camera (V3) /Wisconsin - South Leg Lane Lane through lane underneath V3



LEFT TURN LANE CLOSURE TWO-LANE, TWO WAY or MULTI-LANE UNDIVIDED ROAD 3 DAYS OR LESS



THIS DETAIL APPLIES TO THE FOLLOWING LOCATIONS:

W20-1A, 48"X48"

LANE CLOSED

R11-2L, 48"X30"



R3-2, 36"X36"



R3-1, 36"X36"



R3-4, 36"X36"

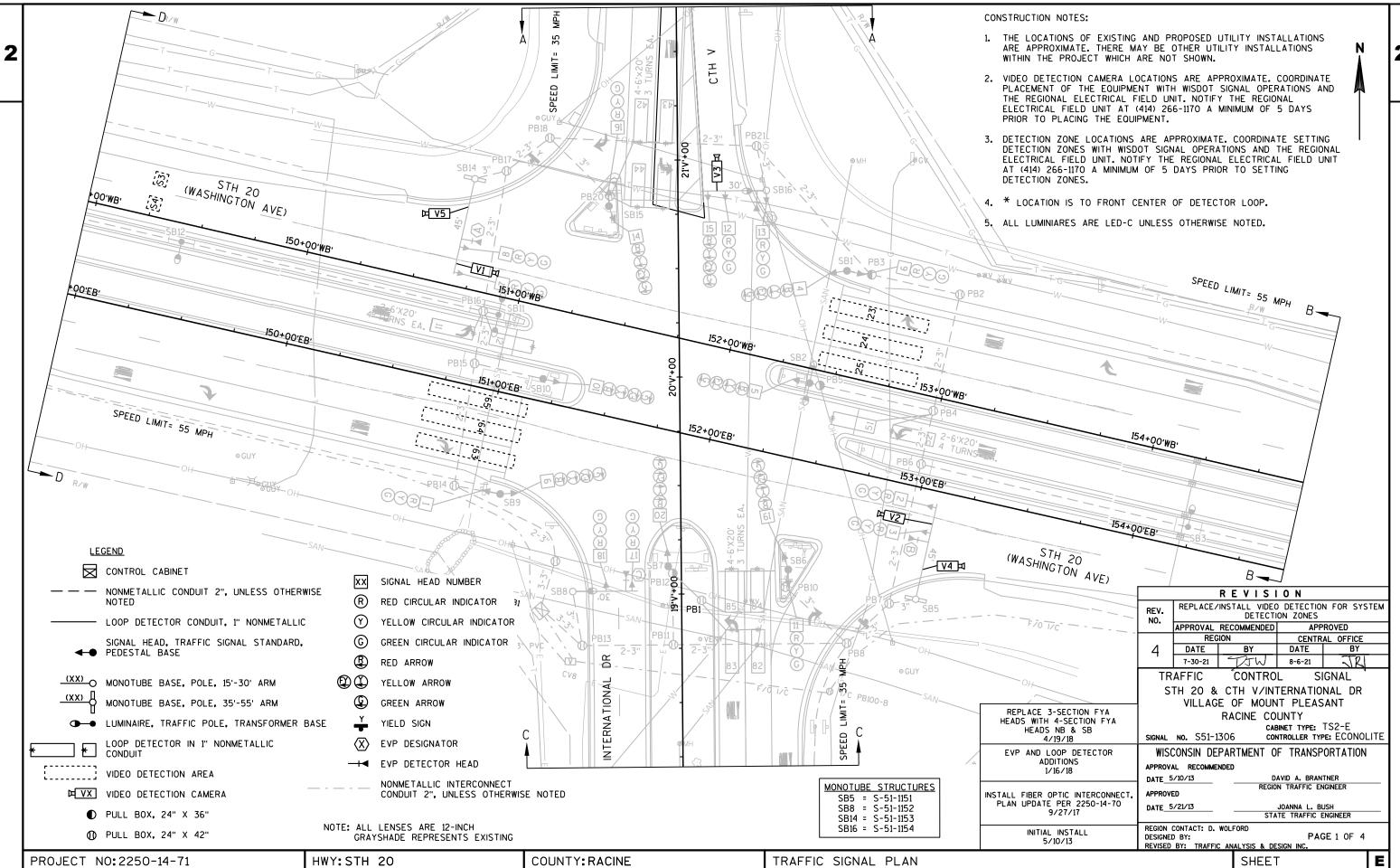


G20-2A, 48"X24"

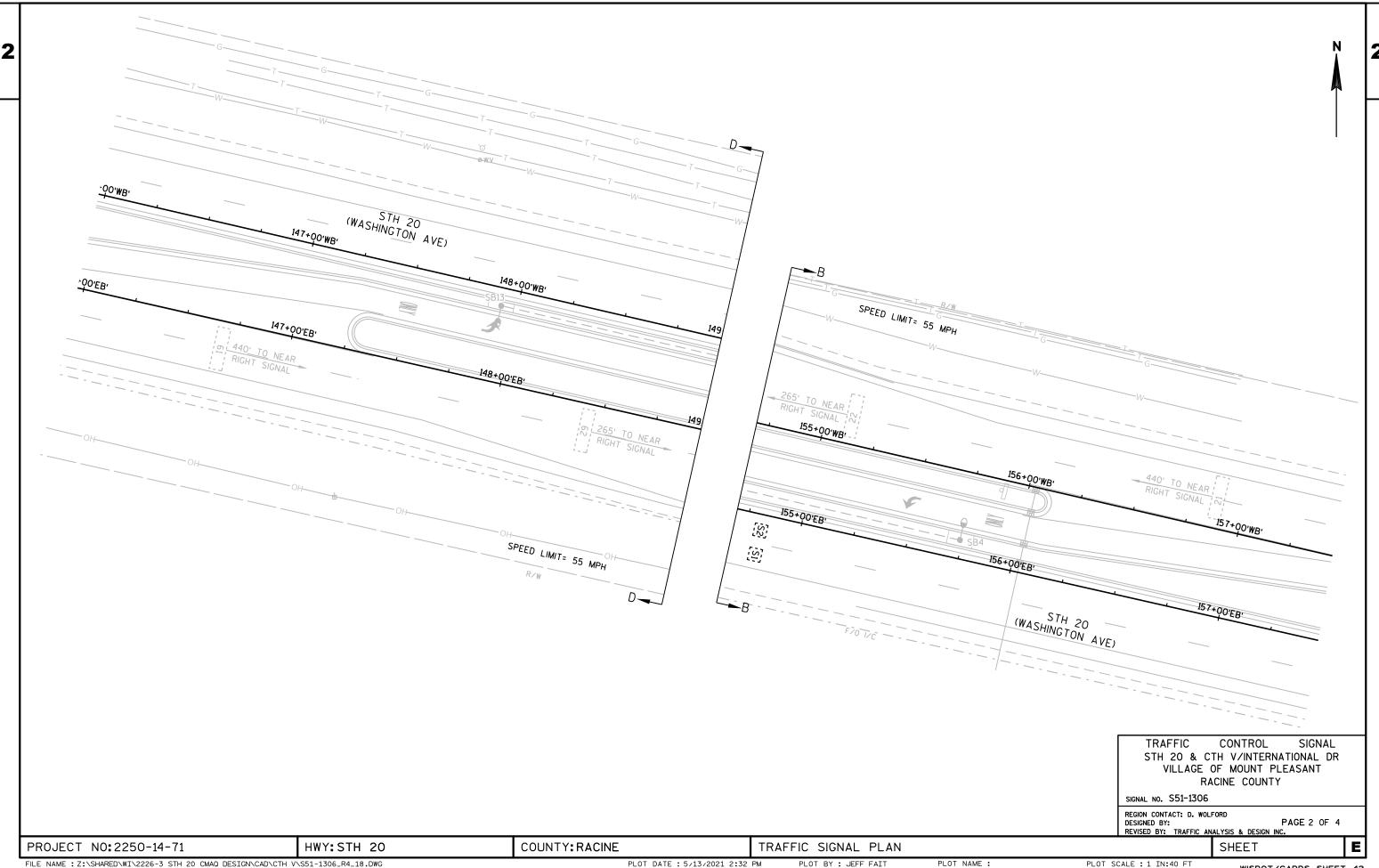
- 1. SEE TRAFFIC CONTROL OVERVIEW SHEET FOR USAGE OF SDDS AT ALL OTHER PROJECT LOCATIONS.
- 2. END ROAD WORK SIGN SHOULD BE PLACED 500 FEET PAST WORK AREA.

PAGE 3 of 3

PROJECT NO: 2250-14-71 SHEET E HWY:STH 20 COUNTY: RACINE TRAFFIC CONTROL - DETAIL 2 PLOT NAME :



7-30-21

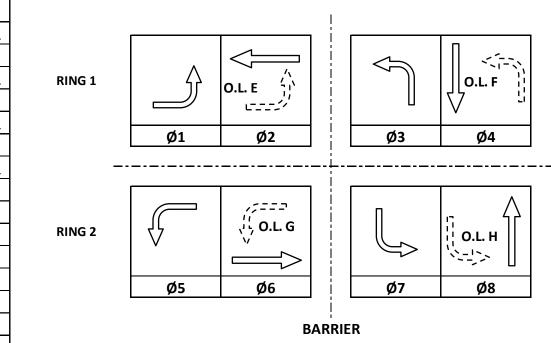


 DR INTERNATIONAL SPEED SIGNAL TRAFFIC CONTROL STH 20 & CTH V/INTERNATIONAL DR VILLAGE OF MOUNT PLEASANT RACINE COUNTY SIGNAL NO. S51-1306 REGION CONTACT: D. WOLFORD
DESIGNED BY: P
REVISED BY: TRAFFIC ANALYSIS & DESIGN INC. PAGE 3 OF 4 COUNTY: RACINE E PROJECT NO: 2250-14-71 HWY:STH 20 TRAFFIC SIGNAL PLAN SHEET PLOT DATE: 5/13/2021 2:32 PM PLOT BY : JEFF FAIT PLOT NAME :

Χ

SS- 51-0036

DETECTOR INPUT 3



Ν

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		Х
2	Х	6	MIN	Х
3		8		Х
4		8		Х
5		2		Х
6	Х	2	MIN	Х
7		4		Х
8		4		Х

TYPE OF COORDINATION

NONE

TBC

TRAFFIC RESPONSIVE X

ADAPTIVE X

*LOCATION OF MASTER

CONTROLLER NO: S-

TYPE OF INTERCONNECT/COMMUNICATION

NONE

RADIO

CLOSED LOOP
TWISTED PAIR

FIBER OPTIC*

CELL MODEM

FIBER OPTIC (ETHERNET)

SIGNAL SYSTEM NO:

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	Α	В	С	D
MOVEMENT	V A	*		1,7
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.

AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	Х
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	Х
GTT	Х
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

PLAN LOOP DETECTOR*(S)	11	42	44	51	81	82	84	
CALLED PHASE	1	4	4	5	8	8	8	
CALL OPTION	Х	Х	Х	Х		Х	Х	
DELAY TIME								
EXTENTION OPTION	Х	Х	Х	X	X	X	Х	
EXTEND TIME					Х			
USE ADDED INITIAL								
CROSS SWITCH PHASE	2			6				
_								
DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	12	43	45	52	83	85		
CALLED PHASE	1	4	4	5	8	8		
CALL OPTION	Х	Х	Х	Х	Х	Х		
DELAY TIME								
EXTENTION OPTION	Х	Х	Х	X	Х	Х		
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE	2			6				

11

9

15

13

19	17	23	21	27	25	31	29	DETECTOR INPUT
21	23	25	61	63	65	S2	S4	PLAN LOOP DETECTOR*(S)
2			6					CALLED PHASE
Χ			Х					CALL OPTION
								DELAY TIME
Х			Х					EXTENTION OPTION
								EXTEND TIME
Х			Х					USE ADDED INITIAL
								CROSS SWITCH PHASE

20	18	24	22	28	26	32	30	DETECTOR INPUT
22	24	41	62	64	S1	S3		PLAN LOOP DETECTOR*(S)
2		4	6					CALLED PHASE
Х			Х					CALL OPTION
								DELAY TIME
Х		Х	Х					EXTENTION OPTION
		Х						EXTEND TIME
Х			Х					USE ADDED INITIAL
								CROSS SWITCH PHASE
		-	-		-	•	•	=

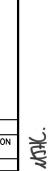
STH 20 & CTH V/INTERNATIONAL DR
VILLAGE OF MOUNT PLEASANT
RACINE COUNTY

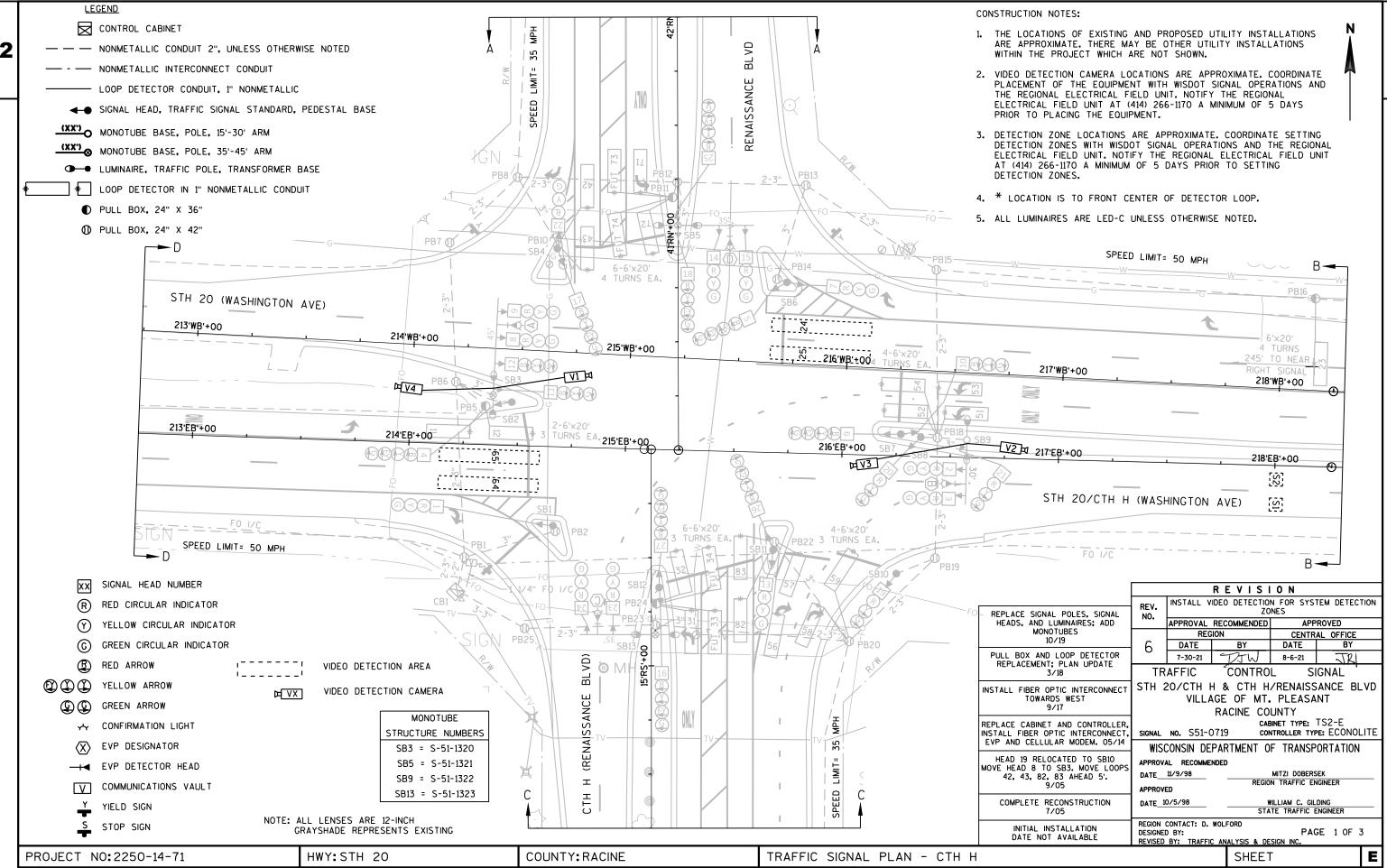
SIGNAL NO: S51-1306 CABINET TYPE: TS2-E
CONTROLLER TYPE: ECONOLITE

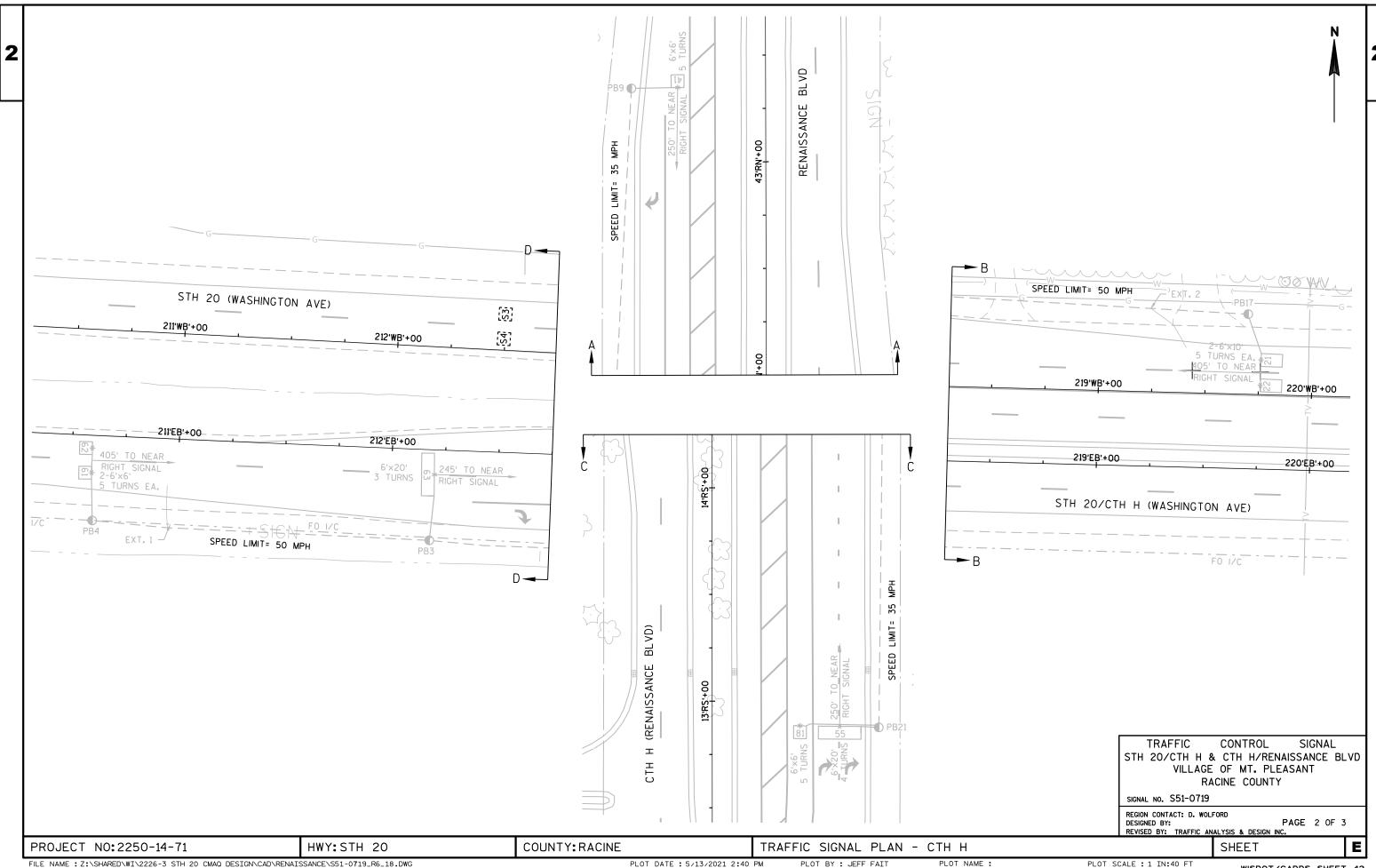
DATE: 5/2021 PAGE NUMBER: 4 OF 4

PROJECT NO: 2250-14-71 HWY: STH 20 COUNTY: RACINE SEQUENCE OF OPERATIONS SHEET NO: I

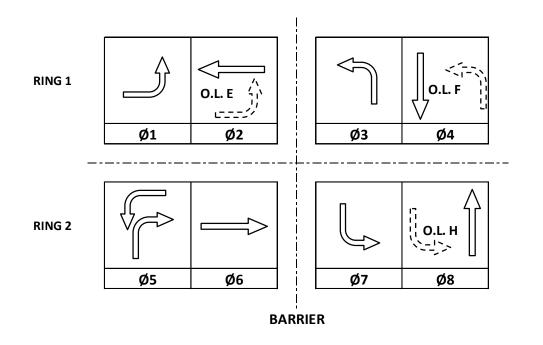
FILE NAME : ______ PLOT BATE : _____ PLOT BY : _____ PLOT NAME : _____ PLOT NAME : _____ PLOT SCALE : 1:1







		F
		L
	HEAD	Α
	NUMBERS	S H
Ø1	4,5,6	R
		—
Ø2	7,8,9	R
Ø3	16,17,18	R ←
Ø4	22,23,24	R
Ø5	10,11,12,19,20,21	R. R ←
Ø6	1,2,3	R
Ø7	25,26,27	R↓
Ø8	13,14,15	R
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLE	4,5,6	-
OLF	16,17,18	-
OLG		
OLH	25,26,27	-



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		Х
2	Х	6	MIN	Х
3		8		Х
4		8		Х
5		2		Х
6	Х	2	MIN	Х
7		4		Х
8		4		Х

TRAFFIC RESPONSIVE		Α.	
ADAPTIVE		Х	
*LOCATION OF MASTER			
CONTROLLER NO:	S-		
SIGNAL SYSTEM NO:	SS-	51-0094	
SIGNAL SYSTEM NO:	SS- 51-0094		
TYPE OF LIGH	TING		

TYPE OF COORDINATION

TYPE OF INTERCONNECT/COMMUNICATION

NONE CLOSED LOOP

RADIO CELL MODEM

NONE

TBC

TWISTED PAIR

FIBER OPTIC*
FIBER OPTIC (ETHERNET)

TYPE OF LIGHTING	1
BY OTHER AGENCY	
IN TRAFFIC CABINET	Х
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	
NONE	
RAILROAD	
EMERGENCY VEHICLE	х
GTT	х
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	х
LIFT BRIDGE	
QUEUE DETECTION	

45 DETECTOR INPUT

CALLED PHASE CALL OPTION

PLAN LOOP DETECTOR*(S)

EMERGENCY VEHICLE PREEMPTOR	А	В	С	D
MOVEMENT	<u> </u>			
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6.

39

S1

37

S3

AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN TO PHASES 4+8.

33

64

DETECTOR LOGIC

19 17 23 21 27 25 31 29

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	21/22	31	33	41	43	51	53
CALLED PHASE	1	2	3	FUTURE	4	4	5	5
CALL OPTION	Х	Х	Х			Х	Х	Х
DELAY TIME								
EXTENTION OPTION	Х	Х	Х		Х	Х	Х	Х
EXTEND TIME					Х			
USE ADDED INITIAL		Х						
CROSS SWITCH PHASE	2		4					
		,						-
DETECTOR INPUT	4	2	8	6	12	10	16	14
DETECTOR INPUT PLAN LOOP DETECTOR*(S)	4 12	2 23	8 32	6 34	12 42	10	16 52	14 54
						10		
PLAN LOOP DETECTOR*(S)	12	23	32	34	42	10	52	54
PLAN LOOP DETECTOR*(S) CALLED PHASE	12	23	32 3	34	42 4	10	52 5	54 5
PLAN LOOP DETECTOR*(S) CALLED PHASE CALL OPTION	12	23	32 3	34	42 4	10	52 5	54 5
PLAN LOOP DETECTOR*(S) CALLED PHASE CALL OPTION DELAY TIME	12 1 X	23 2 X	32 3 X	34	42 4 X	10	52 5 X	54 5 X
PLAN LOOP DETECTOR*(S) CALLED PHASE CALL OPTION DELAY TIME EXTENTION OPTION	12 1 X	23 2 X	32 3 X	34	42 4 X	10	52 5 X	54 5 X

55	57	59	61/62	71	73	81	83
5	5	5	6	7	FUTURE	8	8
	Х	Х	Х	Х			Х
	Х	Х					
Х	Х	Х	Х	Х		Х	Х
Х						Х	
			Х				
				8			
20	18	24	22	28	26	32	30
20 56	18 58	24	22 63	28 72	26 74	32 82	30
		24					30
56	58	24	63	72	74	82	30
56 5	58 5	24	63 6	72 7	74	82 8	30
56 5 X	58 5 X	24	63 6	72 7	74	82 8	30
56 5 X X	58 5 X X	24	63 6 X	72 7 X	74	82 8 X	30
56 5 X X	58 5 X X	24	63 6 X	72 7 X	74	82 8 X	30

								DELAY TIME
								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE
		•	•	•		•	•	_
36	34	40	38	44	42	48	46	DETECTOR INPUT
25	65	S2	S4					PLAN LOOP DETECTOR*(S)
								CALLED PHASE
								CALL OPTION
								DELAY TIME
								EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
								CROSS SWITCH PHASE

43

41

47

STH 20/CTH H & CTH H/RENAISSANCE BLVD VILLAGE OF MOUNT PLEASANT RACINE COUNTY

SIGNAL NO: S51-0719 CABINET TYPE: TS2-E **CONTROLLER TYPE: ECONOLITE** DATE: 5/2021 PAGE NUMBER: 3 OF 3

PROJECT NO: 2250-14-71

HWY: 20

COUNTY: RACINE

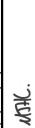
SEQUENCE OF OPERATIONS

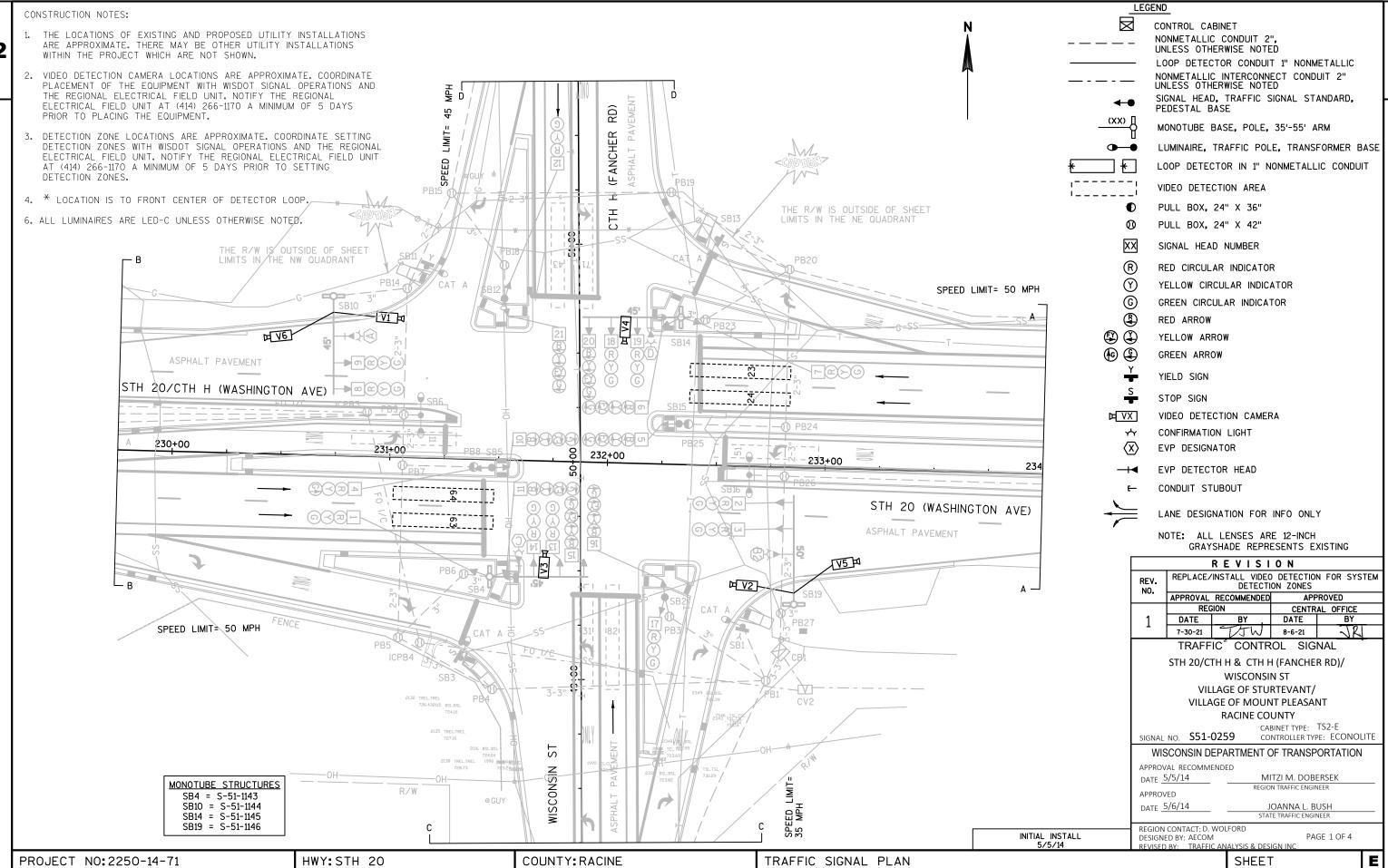
SHEET NO:

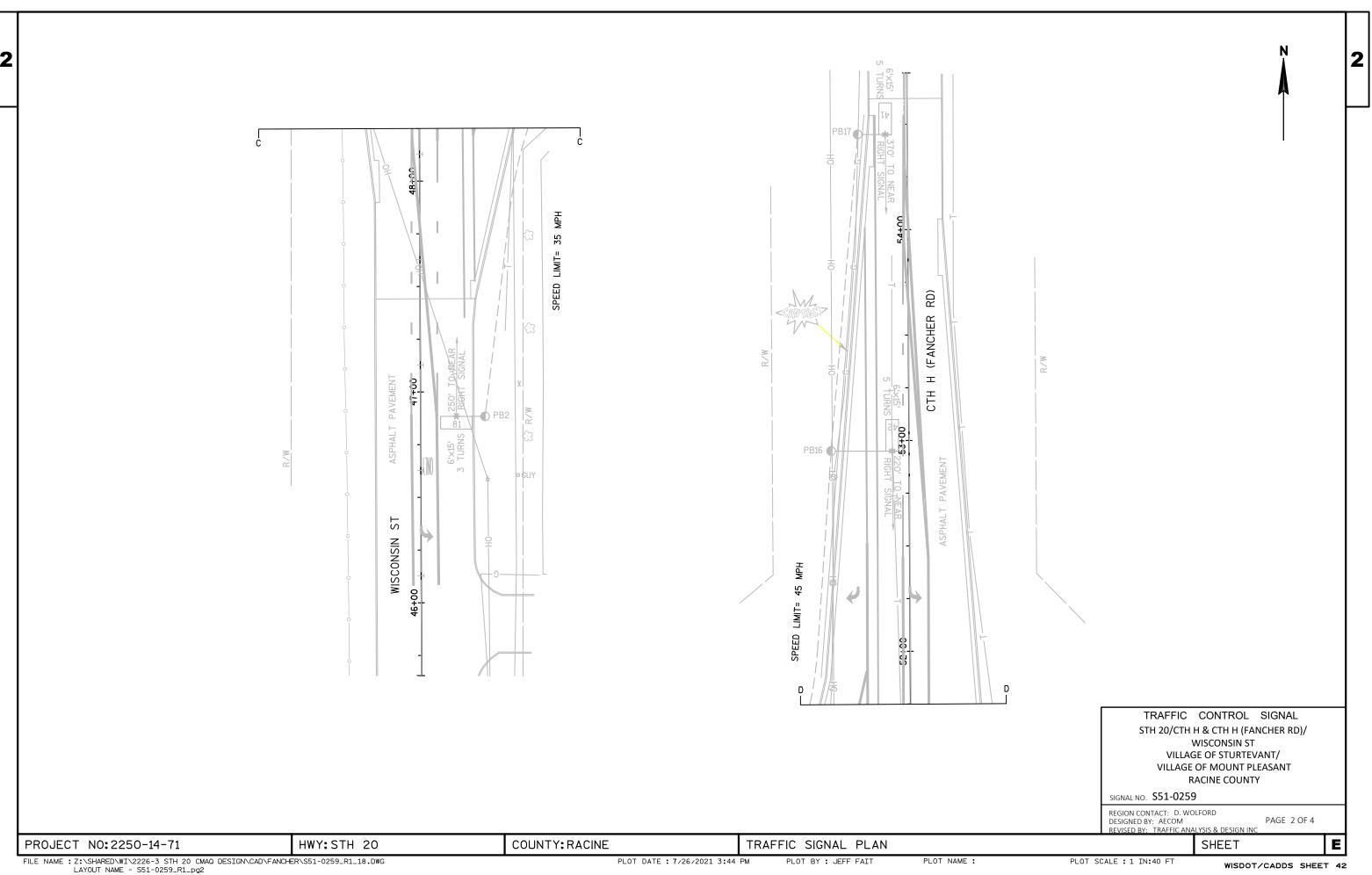
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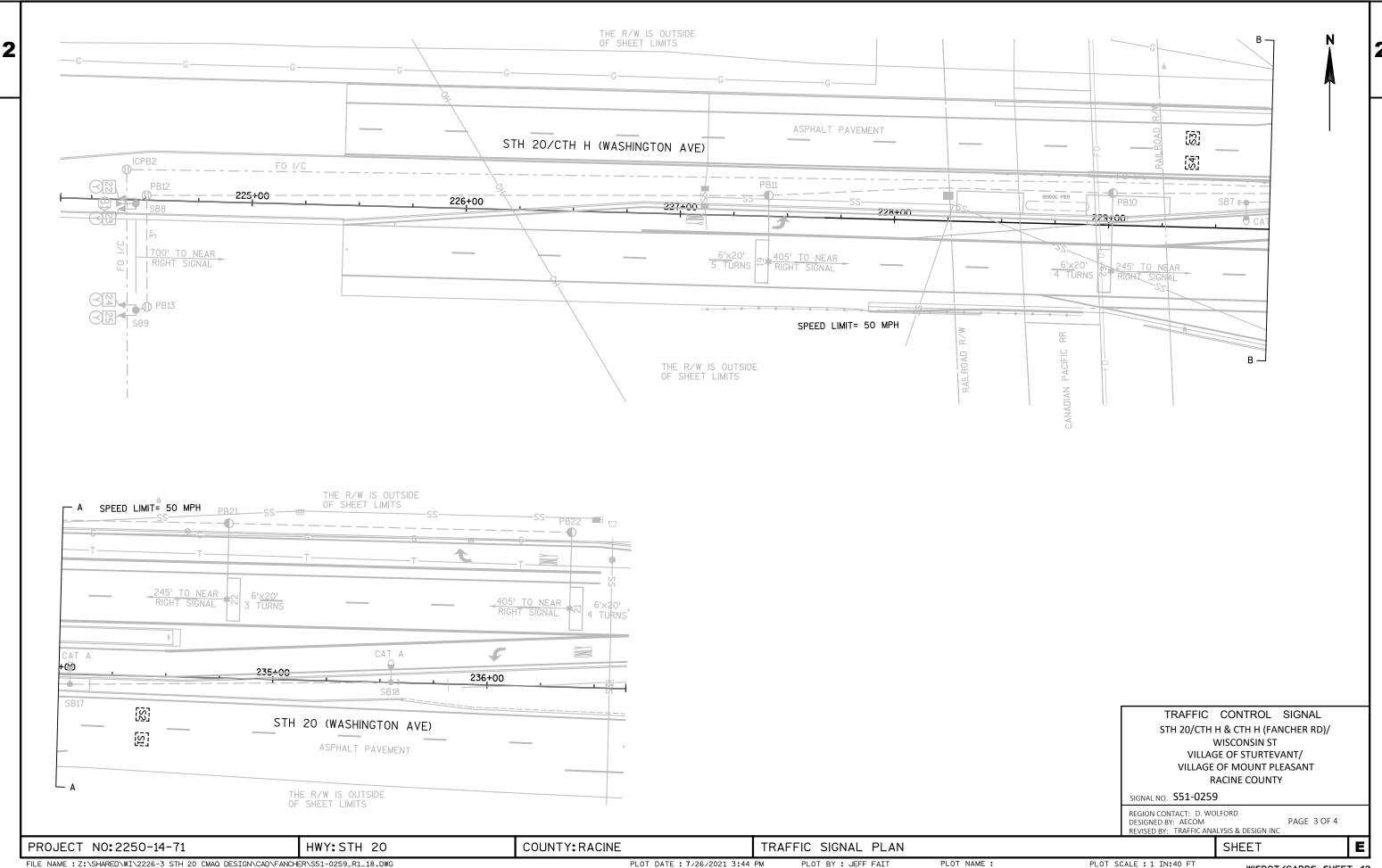
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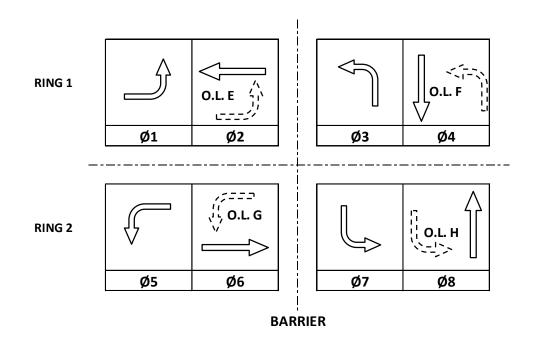


-		
		F
		L
	HEAD	A
	NUMBERS	S
Ø1	5,6	R
	•	<u>::</u>
Ø2	7,8,9	R
ØЗ	20,21	R ←
Ø4	12,13,14	R
Ø5	10,11	₽
Ø6	1,2,3,4	R
Ø7	15,16	₽
Ø8	17,18,19	R
Ø2P		
Ø4P		
Ø6P		
Ø8P		
OLE	5,6	-
OLF	20,21	-
OLG	10,11	-
OLH	15,16	-
BCN	22,23,24,25	FY

DETECTOR INPUT

CALLED PHASE

PLAN LOOP DETECTOR*(S)



CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		Х
2	Х	6	MIN	Х
3		8		Х
4		8		Х
5		2		Х
6	Х	2	MIN	Х
7		4		Х
8		4		Х

EMERGENCY	VEHICLE I	PREEMPT	ON SEOL	JENCE

EMERGENCY VEHICLE PREEMPTOR	Α	В	С	D
MOVEMENT	V A		<u> </u>	<u> </u>
PHASE	2+5	6+1	4+7	8+3

AFTER PREEMPTION SEQUENCE 2+5 OR 6+1, CONTROLLER SHALL RETURN TO PHASES 2+6 AFTER PREEMPTION SEQUENCE 4+7 OR 8+3, CONTROLLER SHALL RETURN

TYPE OF INTERCONNECT/COM	MUNICATION
NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	х
RADIO	
CELL MODEM	

TYPE OF COORDI	NATION	
NONE		
твс		
TRAFFIC RESPONSIVE		Х
ADAPTIVE		Х
*LOCATION OF MASTER		
CONTROLLER NO:	S-	
SIGNAL SYSTEM NO:	SS- 5	1-0094

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	Х
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT	•
NONE	
RAILROAD	
MERGENCY VEHICLE	х
GTT	Х
TOMAR	
HARDWIRE	
OTHER	
CONFIRMATION LIGHTS	Х
IFT BRIDGE	
QUEUE DETECTION	

DETECTOR LOGIC

CALL OPTION	Х		Х					
DELAY TIME								
EXTENTION OPTION	Х	Х	Х	Х				
EXTEND TIME		Х		Х				
USE ADDED INITIAL	Х		Х					
CROSS SWITCH PHASE								
· -								
DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	22	42	62					
PLAN LOOP DETECTOR*(S) CALLED PHASE	22	42 4	62 6					
· '-								
CALLED PHASE	2		6					
CALLED PHASE CALL OPTION	2		6					
CALLED PHASE CALL OPTION DELAY TIME	2 X	4	6 X					
CALLED PHASE CALL OPTION DELAY TIME EXTENTION OPTION	2 X	4 X	6 X					

61

41

5

81

11

9

15

13

19	17	23	21	27	25	31	29	DETECTOR INPUT
11	24	43	63	71	S1	S3		PLAN LOOP DETECTOR*(S)
1		4		7				CALLED PHASE
X		Х		Х				CALL OPTION
								DELAY TIME
Х		Х		Х				EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
2				8				CROSS SWITCH PHASE
		I	l					

TO PHASES 4+8

Ν

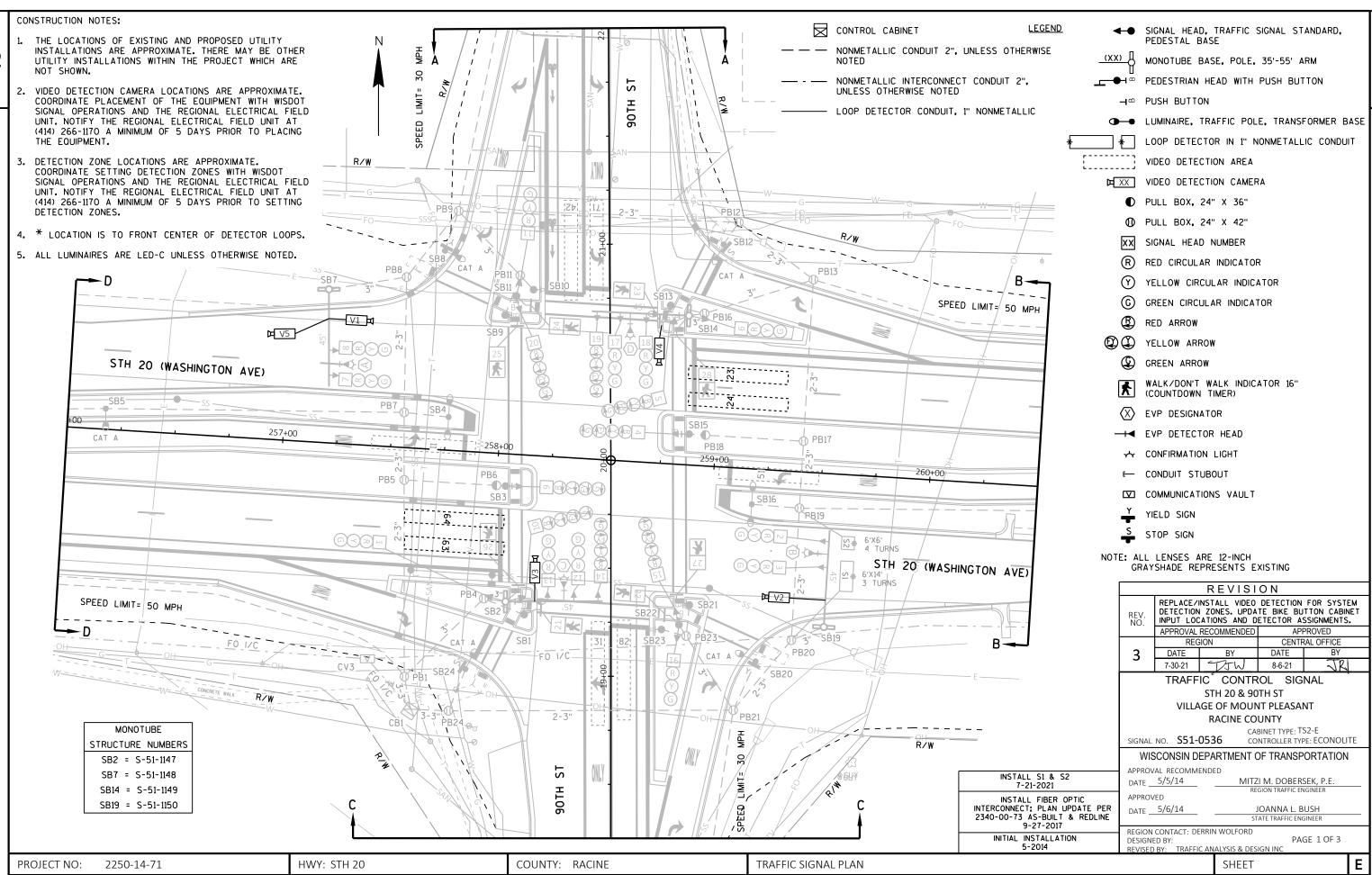
								<u> </u>
20	18	24	22	28	26	32	30	DETECTOR INPUT
23	31	51	64	82	S2	S4		PLAN LOOP DETECTOR*(S)
	3	5		8				CALLED PHASE
	Х	X		Х				CALL OPTION
								DELAY TIME
	Х	Х		Х				EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
	4	6						CROSS SWITCH PHASE
								

GENERAL NOTES:

- 1. BCN = "BE PREPARED TO STOP WHEN FLASHING" BEACON
- 2. PREPARE TO STOP WHEN FLASHING BEACON SHALL DEACTIVATE AT START OF PHASE 6 GREEN INTERVAL AND REACTIVATE 8 SECONDS PRIOR TO START OF PHASE 6 YELLOW INTERVAL.
- 3. PREPARE TO STOP WHEN FLASHING BEACON SHALL FLASH ALTERNATELY ON EACH POLE.

STH 20/CTH H & CTH H (FANCHER RD)/WISCONSIN ST VILLAGE OF STURTEVANT/VILLAGE OF MOUNT PLEASANT RACINE COUNTY CABINET TYPE: TS2-E SIGNAL NO: S51-0259 CONTROLLER TYPE: ECONOLITE DATE: 5/2021 PAGE NUMBER: 4 OF 4

PROJECT NO: 2250-14-71 HWY: STH 20 **COUNTY: RACINE SEQUENCE OF OPERATIONS** SHEET NO:



FILE NAME: N:\PDS\C3D\C4D\22501411\SIG\90TH\S51-0536_R3_18.DWG PLOT NAME: VANDE LEEST, CYNTHIA PLOT NAME:

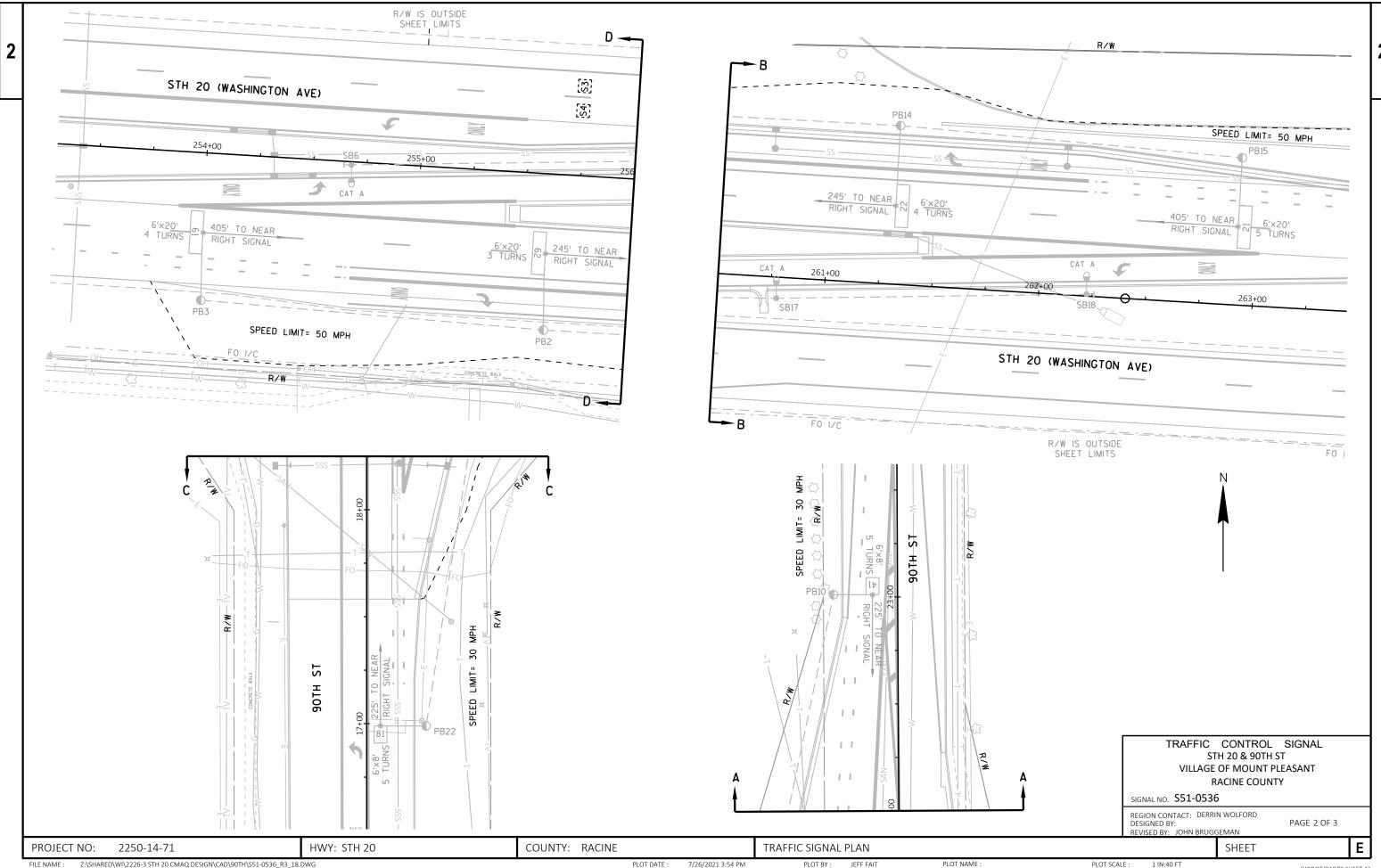
LAYOUT NAME - S51-0536_R3_pg1

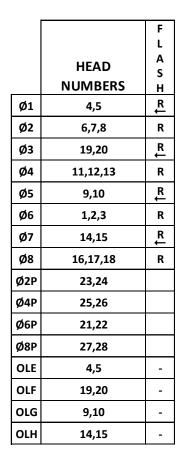
PLOT SCALE :

1 IN:40 FT

7-30-21**ACT**

2



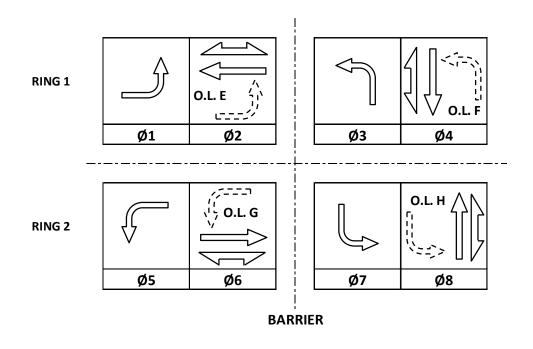


DETECTOR INPUT

CALLED PHASE

21

PLAN LOOP DETECTOR*(S)



15

13

CONTROLLER LOGIC

Ν

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		Х
2	Х	6	MIN	х
3		8		Х
4		8		х
5		2		х
6	Х	2	MIN	х
7		4		х
8		4		х

NONE	
CLOSED LOOP	
TWISTED PAIR	
FIBER OPTIC*	
FIBER OPTIC (ETHERNET)	х
RADIO	
CELL MODEM	

TYPE OF COORDIN	ATION
NONE	
твс	
TRAFFIC RESPONSIVE	Х
ADAPTIVE	Х
*LOCATION OF MASTER	
CONTROLLER NO:	
SIGNAL SYSTEM NO:	SS-51-0094

TVDE OF LIGHTING	
TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC CABINET	х
IN SEPARATE DOT LIGHTING CABINET	

TYPE OF PRE-EMPT					
NONE					
RAILROAD					
EMERGENCY VEHICLE	х				
GTT	х				
TOMAR					
HARDWIRE					
OTHER					
CONFIRMATION LIGHTS	х				
LIFT BRIDGE					

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	А	В	С	D
MOVEMENT	V 3		<i>()</i>	
PHASE	2+5	1+6	4+7	3+8

AFTER PREEMPTION SEQUENCE 2+5 OR 1+6, CONTROLLER SHALL RETURN TO PHASES 2+6.
AFTER PREEMPTION SEQUENCE 4+7 OR 3+8, CONTROLLER SHALL RETURN

DETECTOR LOGIC

CALL OPTION	Х		Х					
DELAY TIME								
EXTENTION OPTION	Х	Х	Х	Х				
EXTEND TIME		Х		Х				
USE ADDED INITIAL	Х		Х					
CROSS SWITCH PHASE								
_		•	•	•				
DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)	22		62		S2			
CALLED PHASE	2		6					
CALL OPTION	Х		Х					
DELAY TIME								
EXTENTION OPTION	Х		Х					
EXTEND TIME								
USE ADDED INITIAL	Х		Х					
CROSS SWITCH PHASE								

61

6

81

8

41

11

S1

19	17	23	21	27	25	31	29	DETECTOR INPUT
11	24	42	63	71	S3			PLAN LOOP DETECTOR*(S)
1		4		7				CALLED PHASE
Х		X		Х				CALL OPTION
								DELAY TIME
Х		X		Х				EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
2				8				CROSS SWITCH PHASE

TO PHASES 4+8.

20	18	24	22	22	28	26	30	DETECTOR INPUT
23	31	51	64	82	S4			PLAN LOOP DETECTOR*(S)
	3	5		8				CALLED PHASE
	Х	X		Х				CALL OPTION
								DELAY TIME
	Х	X		Х				EXTENTION OPTION
								EXTEND TIME
								USE ADDED INITIAL
	4	6						CROSS SWITCH PHASE

GENERAL NOTES:

1. BUTTONS ON SB10 AND SB23 USED TO CALL PHASE 4 AND PHASE 8 GREEN FOR BICYCLISTS VIA PROGRAMMED BIKE MIN GREEN.

STH 20 & 90TH ST

VILLAGE OF MT. PLEASANT

RACINE COUNTY

SIGNAL NO: S51-0536 CABINET TYPE: TS2

CONTROLLER TYPE: ECONOLITE

DATE: 5/2021 PAGE NO. 3 OF 3

PROJECT NO: 2250-14-71 HWY: STH 20 COUNTY: RACINE SEQUENCE OF OPERATIONS SHEET NO: E

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

SPV.0060

SPV.0060

0126

Special 11. Trans & Install State Furnished Video Veh Detection Sys STH 20 at

Special 12. Trans & Install State Furnished Video Veh Detection Sys STH 20 at 90th

2250-14-71

1.000

1.000

Line	Item	Item Description	Unit	Total	Qty
8000	204.9060.S	Removing (item description) 04. Traffic Signals STH 20 at CTH V	EACH	1.000	1.000
0010	204.9060.S	Removing (item description) 05. Traffic Signals STH 20 at Fancher	EACH	1.000	1.000
0012	204.9060.S	Removing (item description) 06. Traffic Signals STH 20 at 90th St	EACH	1.000	1.000
0014	619.1000	Mobilization	EACH	0.200	0.200
0046	642.5001	Field Office Type B	EACH	1.000	1.000
0048	643.0300	Traffic Control Drums	DAY	374.000	374.000
0052	643.0420	Traffic Control Barricades Type III	DAY	19.000	19.000
0054	643.0800	Traffic Control Arrow Boards	DAY	5.000	5.000
0056	643.0900	Traffic Control Signs	DAY	64.000	64.000
0058	643.1050	Traffic Control Signs PCMS	DAY	10.000	10.000
0060	643.5000	Traffic Control	EACH	0.150	0.150
0062	649.0150	Temporary Marking Line Removable Tape 4-Inch	LF	1,450.000	1,450.000
0122	SPV.0060	Special 09. Trans & Install State Furnished Video Veh Detection Sys STH 20 at CTH V	EACH	1.000	1.000
0124	SPV.0060	Special 10. Trans & Install State Furnished Video Veh Detect Sys STH 20 at	EACH	1.000	1.000

1.000

1.000

EACH

EACH

STH 20 FROM CTH V TO 90 TH ST
ALL ITEMS ARE CATEGORY 0010

STATE F	URNISHED MATERIALS SUMMARY - FOR INFORMATION ONLY	MOBILIZ	ATION
			619.1000.02
EACH	DESCRIPTION	=	MOBILIZATION
4	VIDEO VEHICLE DETECTION SYSTEM	LOCATION	EACH
		PROJECT 2250-14-71	0.2
		тот	AL 0.2

TOTAL

	REMOVING TRAFFIC SIGN	ALS	
	204.0060.S.04	204.0060.8.05	204.0060.S.06
	REMOVING	REMOVING	REMOVING
	TRAFFIC SIGNALS	TRAFFIC SIGNALS	TRAFFIC SIGNALS
LOCATION	EACH	EACH	EACH
STH 20 AT CTH V	1		-
STH 20 AT FANCHER		1	-
STH 20 AT 90TH ST			1

				TRAFFIC CC	NTROL			
		643.5000	643.0300	643.0420	643.0800	643.0900	643.1050	649.9000
			TRAFFIC CONTROL	TRAFFIC CONTROL	TRAFFIC CONTROL	TRAFFIC CONTROL	TRAFFIC CONTROL	TRAFFIC CONTROL
		TRAFFIC CONTROL	DRUMS	BARRICADES TYPE III	ARROW BOARDS	SIGNS	SIGNS PCMS	MARKING REMOVAL LINE 4-INCH
LOCATION		EACH	DAY	DAY	DAY	DAY	DAY	DAY
PROJECT 2250-14-71		0.15			-		10	-
STH 20 AT CTH V			243	5	4	26		1,320
STH 20 AT RENAISSANCE			47	4	0	10	-	0
STH 20 AT FANCHER			27	4	0	12	-	0
STH 20 AT 90TH			23	4	0	10		0
UNDISTRIBUTED (10%)			34	2	1	6	-	130
	TOTAL	0.15	374	19	5	64	10	1450

		VIDEO V	/EHICLE DETECTION SYSTEM		
		SPV.0060.09	SPV.0060.10	SPV.0060.11	SPV.0060.12
		TRANSPORTING AND	TRANSPORTING AND	TRANSPORTING AND	TRANSPORTING AND
		INSTALLING	INSTALLING	INSTALLING	INSTALLING
		STATE FURNISHED	STATE FURNISHED	STATE FURNISHED	STATE FURNISHED
		VIDEO VEHICLE	VIDEO VEHICLE	VIDEO VEHICLE	VIDEO VEHICLE
		DETECTION	DETECTION	DETECTION	DETECTION
		SYSTEM	SYSTEM	SYSTEM	SYSTEM
LOCATION		EACH	EACH	EACH	EACH
STH 20 AT CTH V		1	-		
STH 20 AT RENAISSANCE			1		
STH 20 AT FANCHER				1	
STH 20 AT 90TH			-		1
	TOTAL	1	1	1	1

PAGE 1 OF 1

PROJECT NO: 2250-14-71 HWY: STH 20 COUNTY: RACINE MISCELLANEOUS QUANTITIES SHEET:

Standard Detail Drawing List

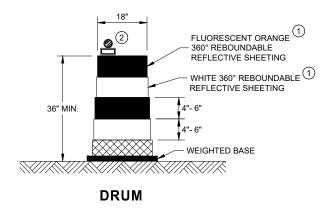
15C11-09B	NELS
15D12-09A TRAFFIC CONTROL, LANE CLOSURE	
15D21-07A TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE	
15D21-07B TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE	
15D27-03 TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS	GREATER THAN 40 MPH
15D28-04 TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED	ROADWAY
15D38-02A TEMPORARY TRAFFIC CONTROL SIGN MOUNTING	
15D38-02B ATTACHMENT OF SIGNS TO POSTS	

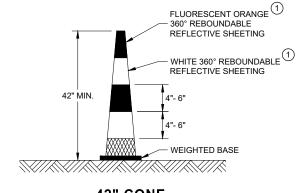
6

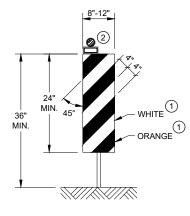
<u>60</u> 15C

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.



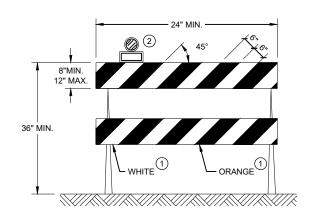




42" CONE DO NOT USE IN TAPERS ½ SPACING OF DRUMS

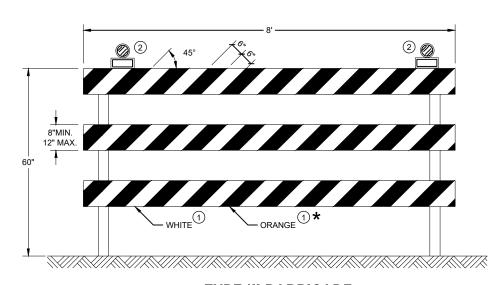
VERTICAL PANEL

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

APPROVED	
May 2021	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	

GENERAL NOTES

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

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

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

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

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

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS

NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

LEGEND

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

/S/ Andrew Heidtke

WORK ZONE ENGINEER

5

TYPE III BARRICADE WITH ATTACHED SIGN

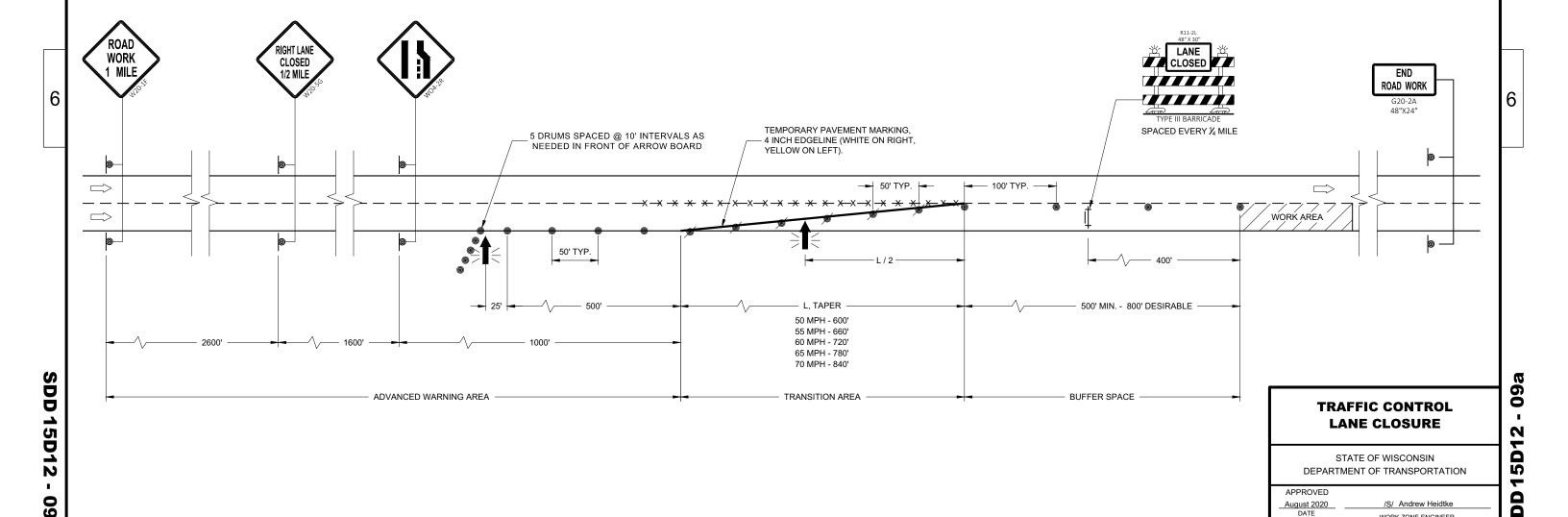
TYPE "A" WARNING LIGHT (FLASHING)

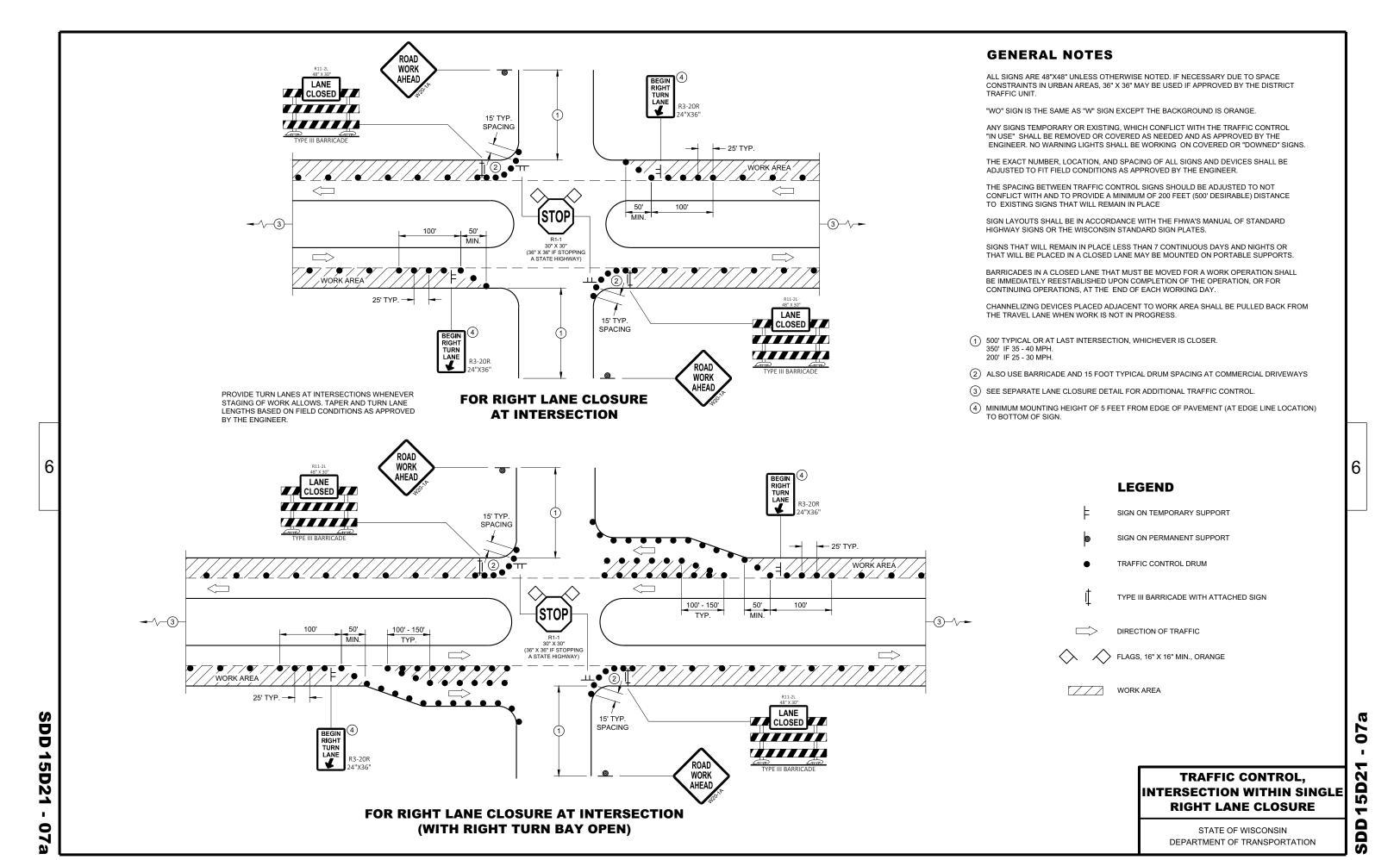
-X-X-X- REMOVING PAVEMENT MARKINGS

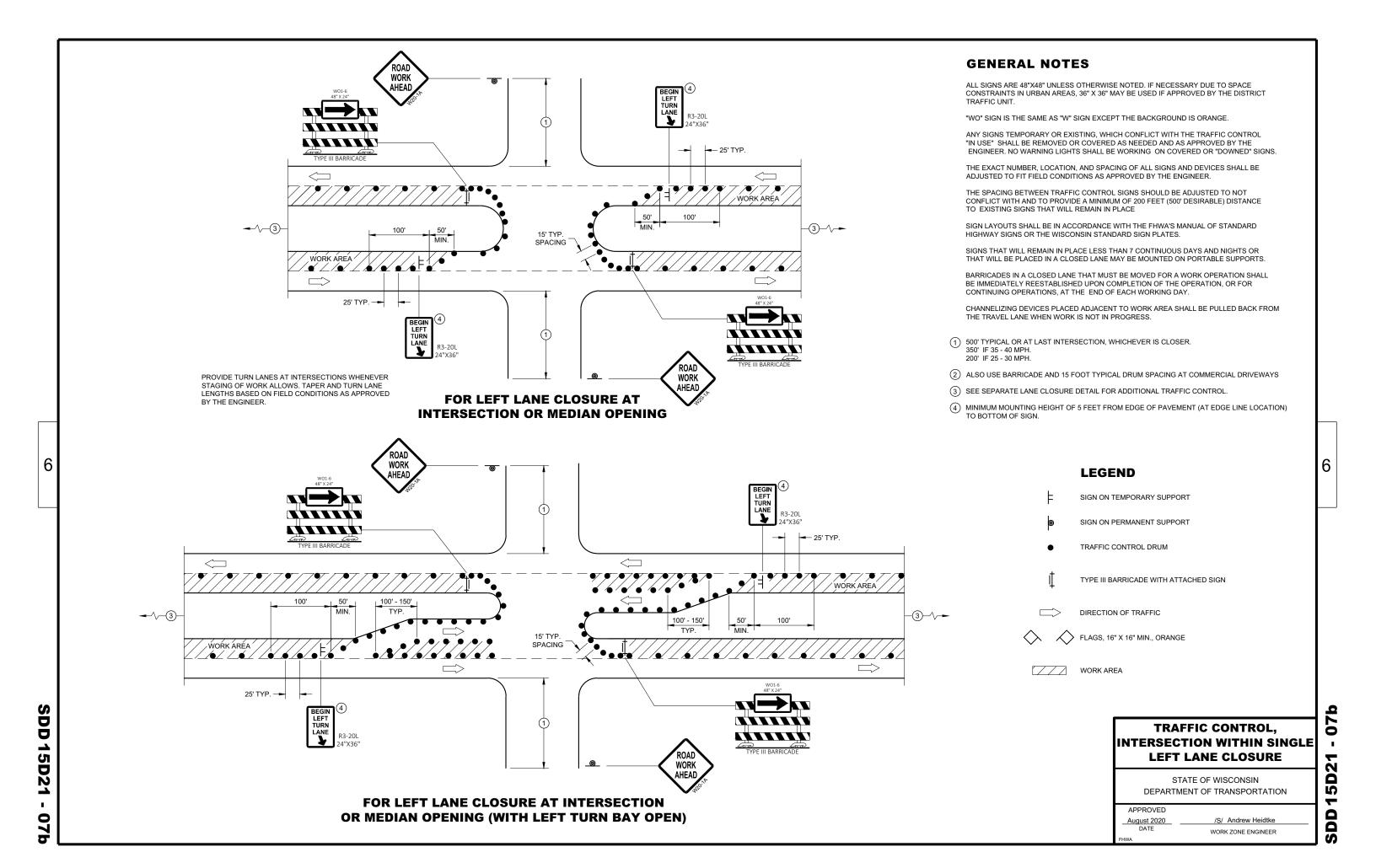
DIRECTION OF TRAFFIC

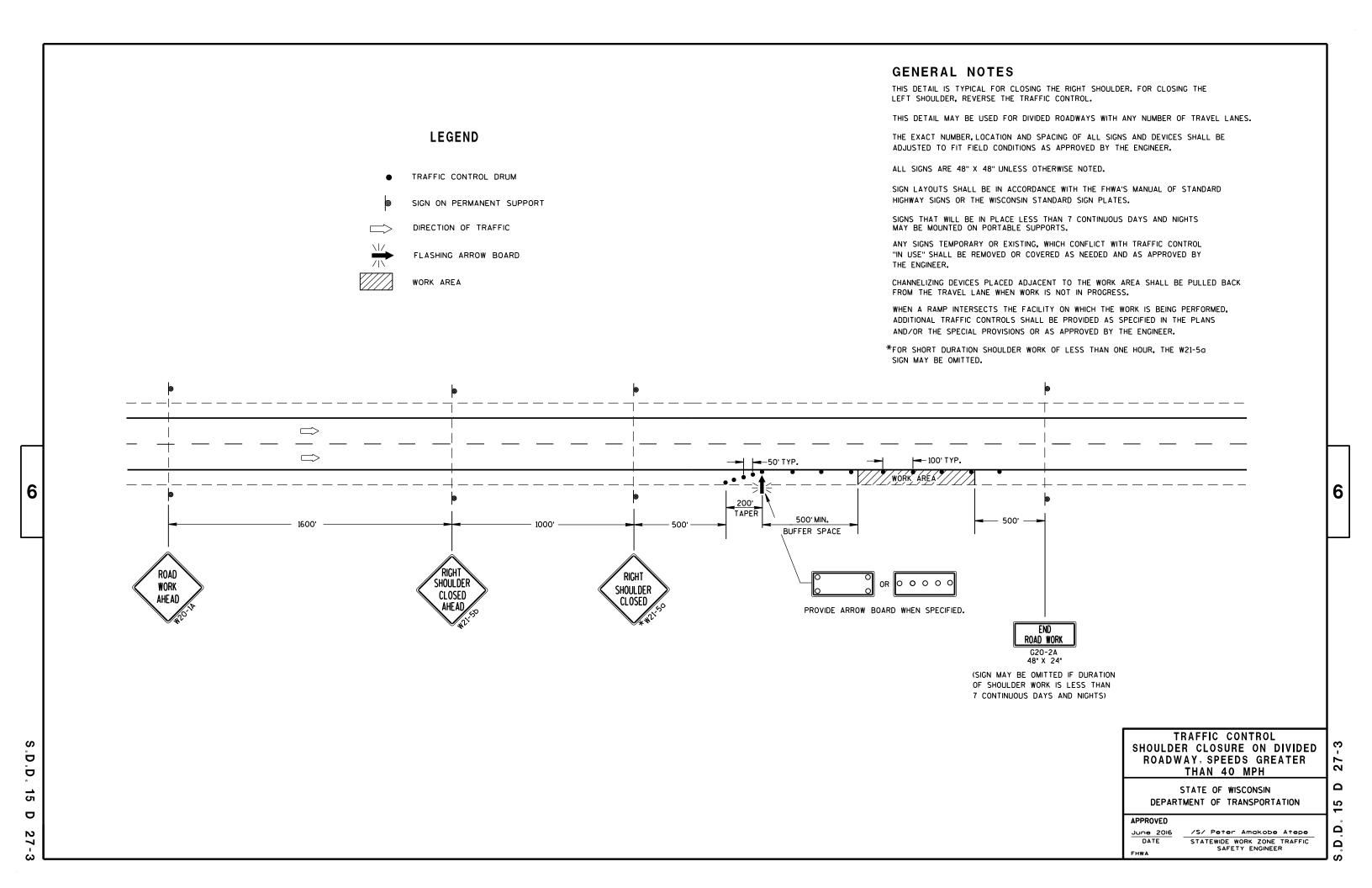
WORK AREA

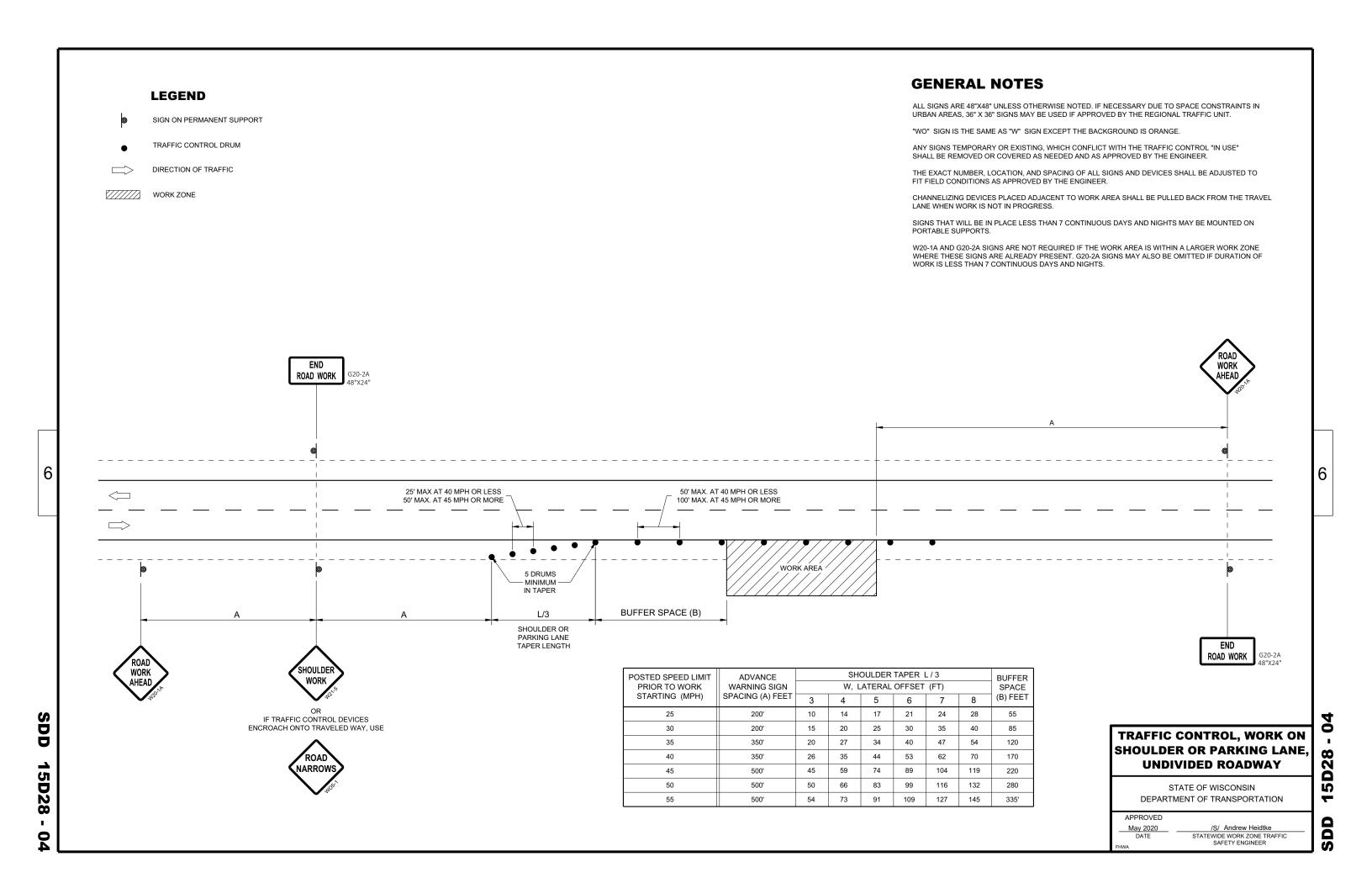
FLASHING ARROW BOARD

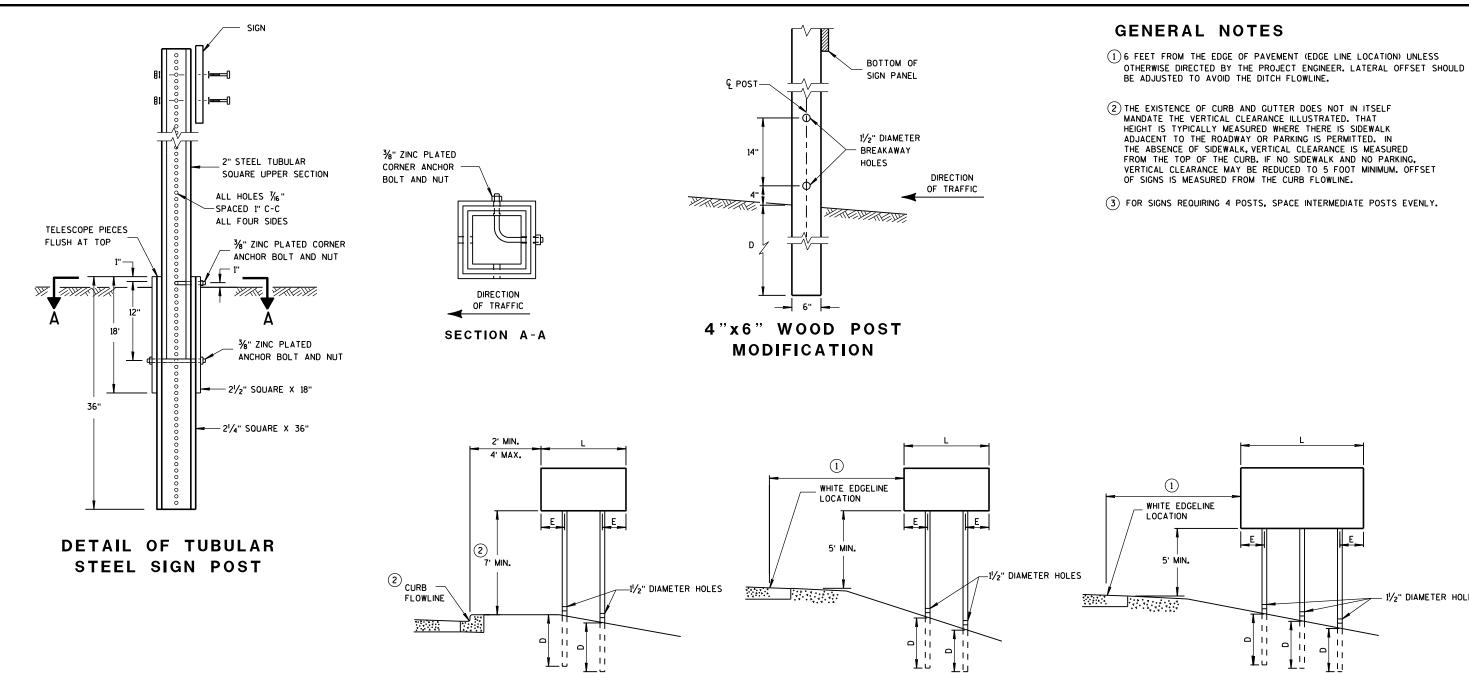












TUBULAR STEEL POSTS

6

D

D

15

D

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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

RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

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

4" X 6" WOOD POST

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

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

6

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- 11/2" DIAMETER HOLES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

-11

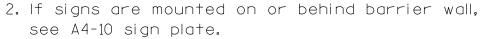
S

DEPARTMENT OF TRANSPORTATION

/S/ Andrew Heidtke WORK ZONE ENGINEER

APPROVED

June 2017 DATE



The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (\pm). 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" (\pm).

- 3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is $5'-3''(\frac{+}{2})$.
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. The (±) tolerance for mounting height is 3 inches.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.

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

** Curb Flowline

D
White Edgeline Location

*

6'-3"(±)

D |

Outside Edge

of Gravel

White Edgeline
Location

Outside Edge
of Gravel

d.

POST EMBEDMENT DEPTH

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

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.

HWY:

* 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.

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

Matther & Rawk For State Traffic Engineer

DATE 5/13/2020 PLATE NO. _A4-3.22

SHEET NO:

Ε

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.dgn

PROJECT NO:

PLOT DATE: 13-MAY 2020 1:04

COUNTY:

PLOT BY : mscj9h

PLOT NAME :

PLOT SCALE: \$\$.....plo†scale.....\$\$ WISDOT/CADDS SHEET 42

APPROVED



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.
- $\star\star\star$ See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

E OTHER THAN DIAMOND POSTS REQUIRED) POST EMBEDMENT DEPTH

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

ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

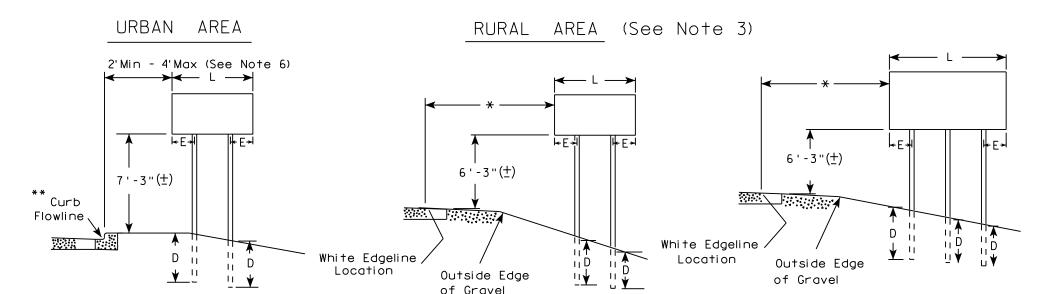
For State Traffic Engineer

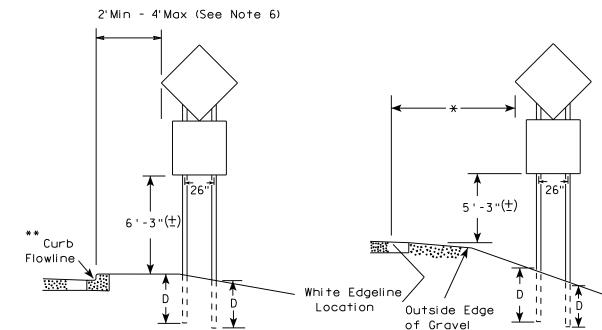
DATE 8/21/17 PLATE NO. A4-4.15

TYPICAL INSTALLATION OF TYPE II SIGNS

PLATE NO. 44-4.15

SHEET NO:





	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E	
* * *	Greater than 48" Less than 60"	12"	
	60" †o 108"	L/5	

HWY:

48" DIAMOND WARNING SIGN

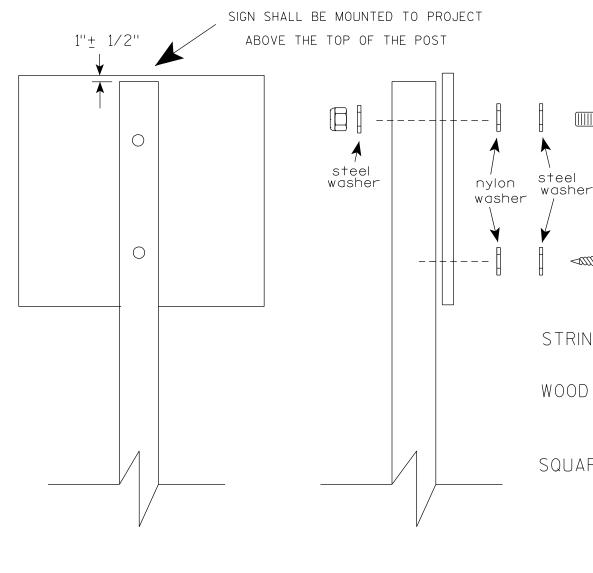
SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)		
L	E	
Greater than 108" to 144"	12''	

48" DIAMOND WARNING SIGN

COUNTY:

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

PROJECT NO:



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either:

- a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
- b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts

WOOD POSTS $(4" \times 6")$

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - $\frac{3}{8}$ " X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN) $\frac{3}{8}$ " X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - $\frac{1}{32}$ " (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 $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL 1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .080 NYLON

Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS
TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

ROVED Matther

∱or State Traffic Engineer

SHEET NO:

DATE <u>4/1/202</u>0

APPROVED

PLATE NO. <u>A4-8.9</u>

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A48.DGN



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

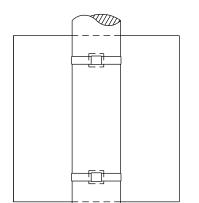
DATE 2/05/15

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

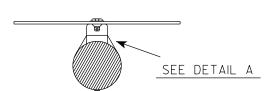
For State Traffic Engineer

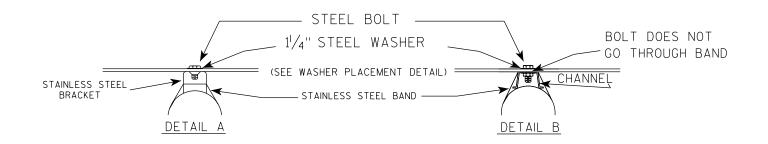


BANDING

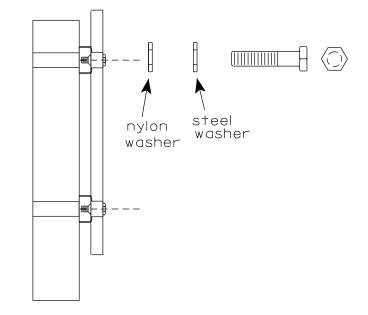


SINGLE SIGN





WASHER PLACEMENT



HWY:

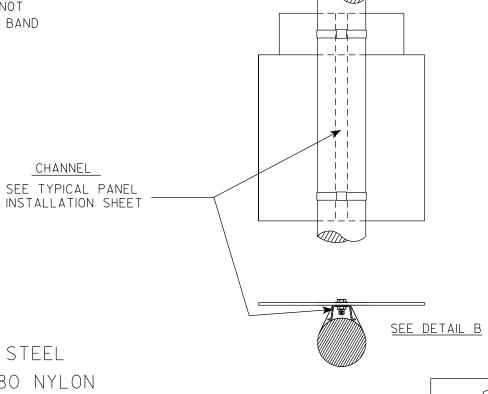
WASHERS (ALL POSTS) -

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

GENERAL NOTES

- 1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
- 2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
- 3. Banding and assembly bracket shall be stainless steel. All bands shall be $\frac{3}{4}$ " in width and 0.025" thickness.
- 4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

State Traffic Engineer

Ε

APPROVED

DATE 6/10/19 PLATE NO. A5-9.4

COUNTY:

PLOT DATE: 10-JUN 2019 4:10

PLOT NAME :

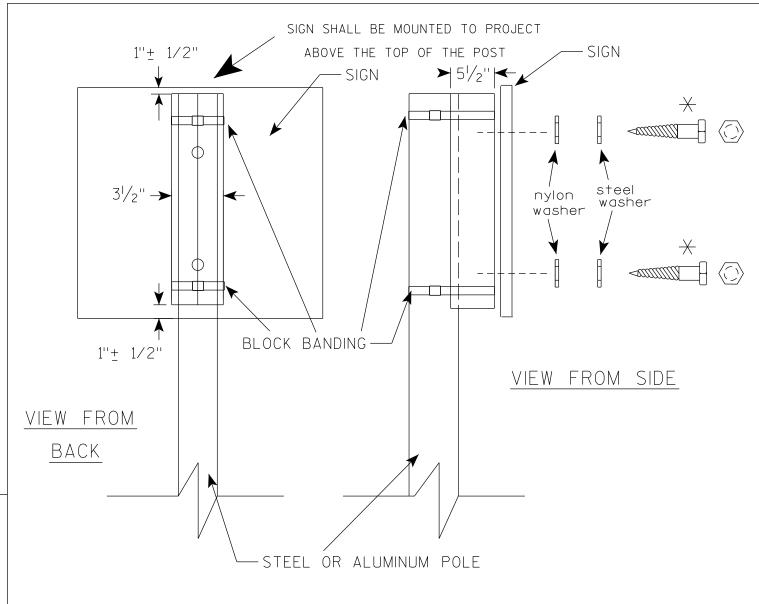
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

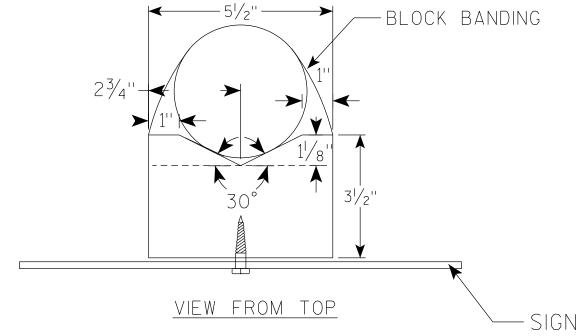
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn

PROJECT NO:

PLOT BY: mscj9h

CHANNEL





GENERAL NOTES

- 1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
- 2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, $\frac{3}{4}$ " WIDTH AND 0.025" THICKNESS
- 3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS.

 SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
- 4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
- 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE $1\frac{1}{4}$ " O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ "
- 8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $\frac{3}{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

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

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

| APPROVED

For State Traffic Engineer

SHEET NO:

Matthew R

DATE 6/10/19

PLATE NO. _A5-10.2

PROJECT NO:
FILE NAME: C:\CAEfiles\Projects\tr_stdplate\A510.dgn

PLOT DATE: 10-JUN 2019 4:15

PLOT BY: mscj9h

WISDOT/CADDS SHEET 42

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:

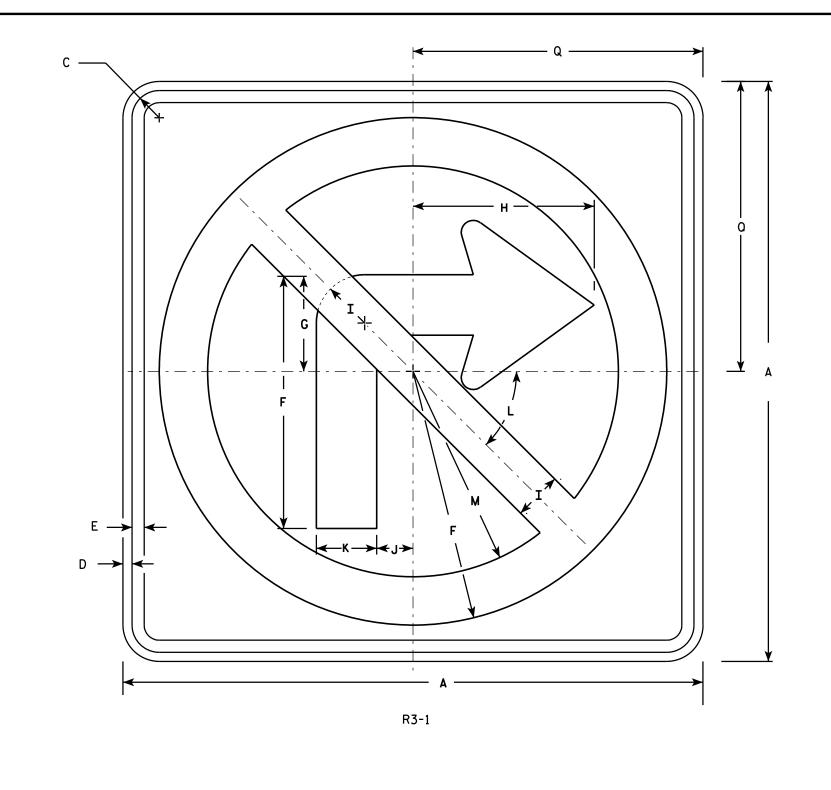
PLOT DATE: 30-SEP-2009 09:31

PLOT BY : ditjph

PLOT NAME :

PLOT SCALE : 5.561773:1.000000

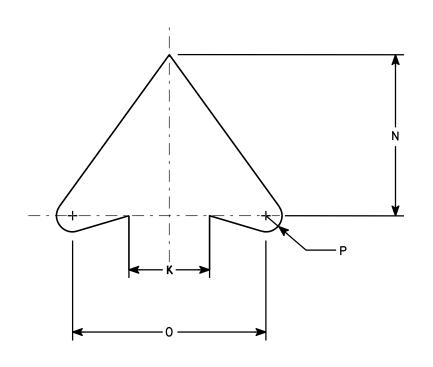
5.561773:1.000000 WISDOT/CADDS SHEET 42



- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

PLOT NAME :

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	Т	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	4 5	8 ½	5	6	1/2	12										4.0
2M	36		1 %	5/8	3/4	15 ¾	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36	 						11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36 1 ½ 5% ¾ 15 ¾						6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15 4 3 5 45°						10	12	1	24										16.0
PRO	PROJECT NO: HWY:												СО	UNTY:													

STANDARD SIGN R3-1

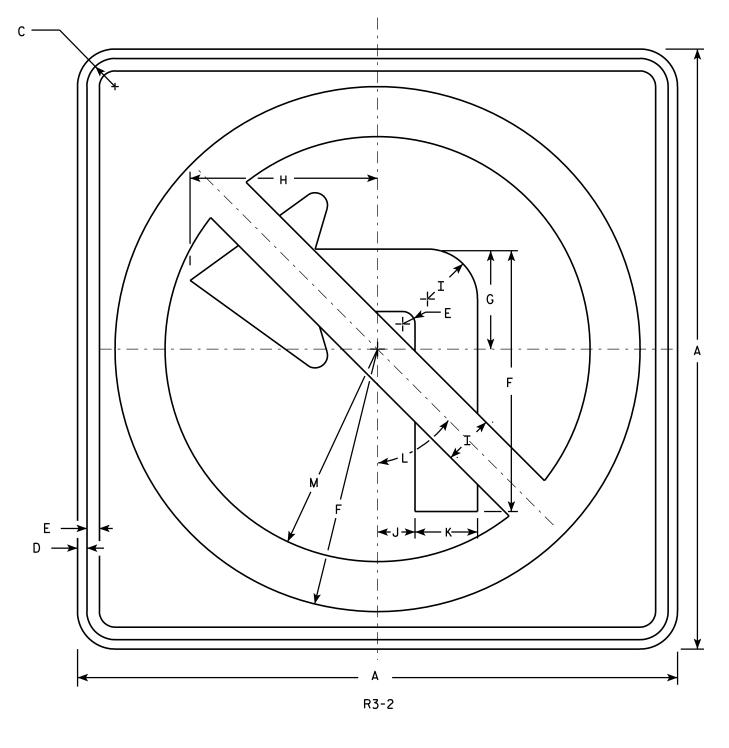
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

DATE12/08/10

PLATE NO. __R3-1.5

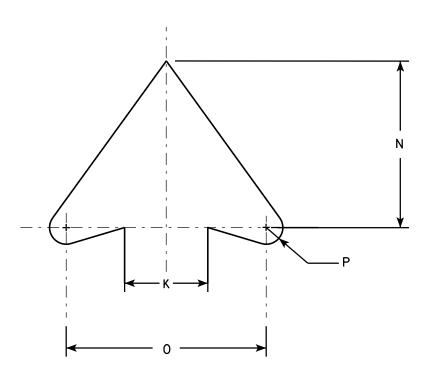
SHEET NO:



- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	٧	₩	X	Y	Z	Area sq. ft.
1	24		1 1/8	3⁄8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
25	24		1 1/8	3∕8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0
2M	36		1 1/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 ½	9	3/4											9.0
3	36		1 1/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 ½	9	3/4											9.0
4	36		1 1/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 ½	9	3/4											9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1										_	16.0

COUNTY:

STANDARD SIGN R3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

 $f_{\it or}$ State Traffic Engineer

DATE 12/08/10

PLATE NO. R3-2.10

SHEET NO:

HWY:

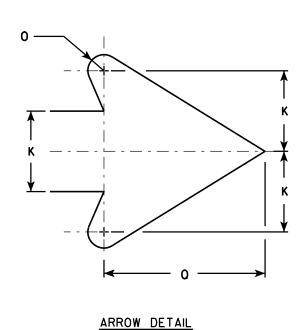
PROJECT NO:

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 - See note 4

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



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SIZE	Α	В	С	D	E	F	G	н	I	J	K	L	M	N	0	P	0	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
25	24		1 1/8	3/8	1/2		4 3/4	13 1/4	6	2	2 1/2	5 1/4	10 1/2	45°	1/2		5										4.0
2M	36		1 %	5⁄8	3/4		7 1/8	19 1/8	9	3	3 3/4	7 1/8	15 ¾	45°	3/4		7 5/8										9.0
3	36		1 %	5/8	3/4		7 1/8	19 %	9	3	3 3/4	7 1/8	15 ¾	45°	3/4		7 %										9.0
4	36		1 %	5/8	3/4		7 1/8	19 %	9	3	3 3/4	7 1/8	15 ¾	45°	3/4		7 %										9.0
5	36		1 %	5/8	3/4		7 1/8	19 1/8	9	3	3 3/4	7 1/8	15 ¾	45°	3/4		7 %										9.0

COUNTY:

R3-4

STANDARD SIGN R3-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

 $f_{\it or}$ State Traffic Engineer PLATE NO. __R3-4.11

DATE12/08/10 SHEET NO:

PLOT NAME :

PLOT BY: dotsja

PLOT SCALE: 5.959043:1.000000

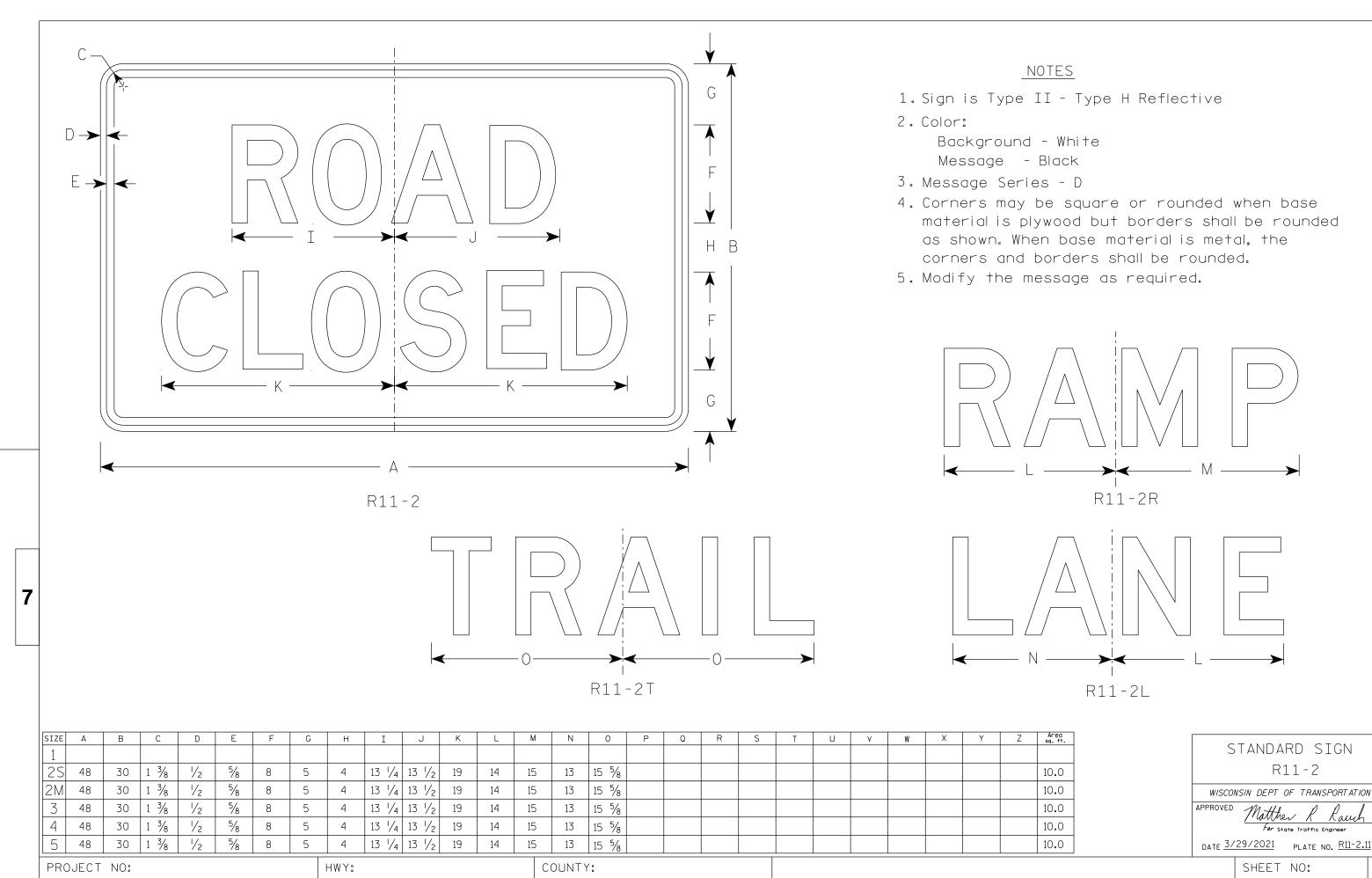
WISDOT/CADDS SHEET 42

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R34.DGN

HWY:

PROJECT NO:

PLOT DATE: 08-DEC-2010 15:34



FILE NAME : C:\Users\PROJECTS\tr_stdplate\R112.dgn

PLOT DATE: 29-MAR 2021 8:15

PLOT BY : dotc4c

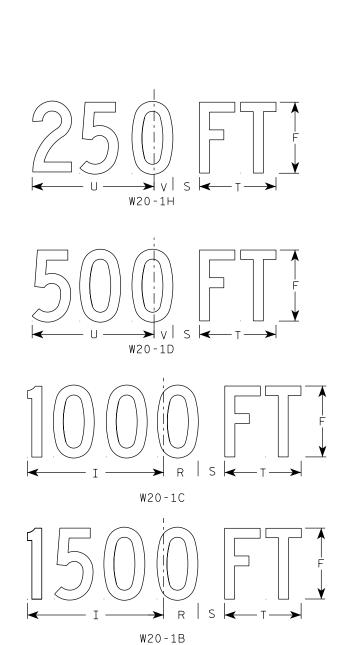
PLOT NAME :

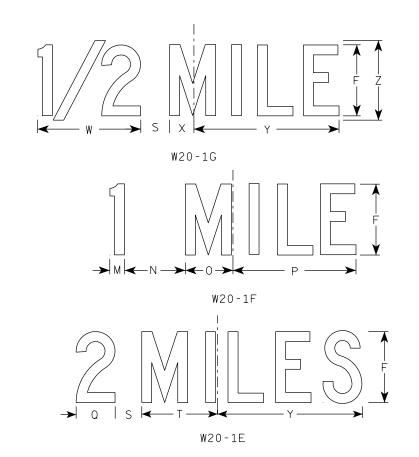
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

- 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.





SIZE	А	В	С	D	E	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		1 5/8	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 1/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 %	9	1 3/8	8	1 3/4	10 3/4	6	9.0
25	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1	6 %	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 ¾	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 ¾	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1	6 %	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1	6 1/8	5 3/8	13 1/8	4 3/8	3 1/8	3	8 %	13 3/4	2 1/8	11 1/8	2 3/4	16 3/8	9	16.0

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

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

 f_{or} State Traffic Engineer
DATE 3/25/2020 PLATE NO. W20-1.11

SHEET NO:

PROJECT NO:

W20-1A

Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov