	ORDER OF S	HEETS
PR	Section No.	1
PROJE	Section No.	2
ЕСТ	Section No.	3
Ξ	Section No.	3
0.0	Section No.	4
	Section No.	5
	Section No.	6
ယ	Section No.	7
	Section No.	8
0	Section No.	9
O	Section No.	0
-50-6	TOTAL SHEE	TS =

EAU

INVESTIGATION OF

HIM

Dec 13, 2022

Cross Sections

TOTAL SHEETS = 146



Title

Typical Sections and Details

Estimate of Quantities Miscellaneous Quantities

ight of Way Pla Plan and Profile Standard Detail Drawings

Sign Plates cturo Plans nputor Earth

DESIGN DESIGNATION 3700-50-60

2023	=	9620
2043	=	9620
	=	962
	=	50/50
	=	13.8%
	=	30 MPH
	=	3,090,000
		2043 = = = =

# CONVENTIONAL SYMBOLS

# **STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION**

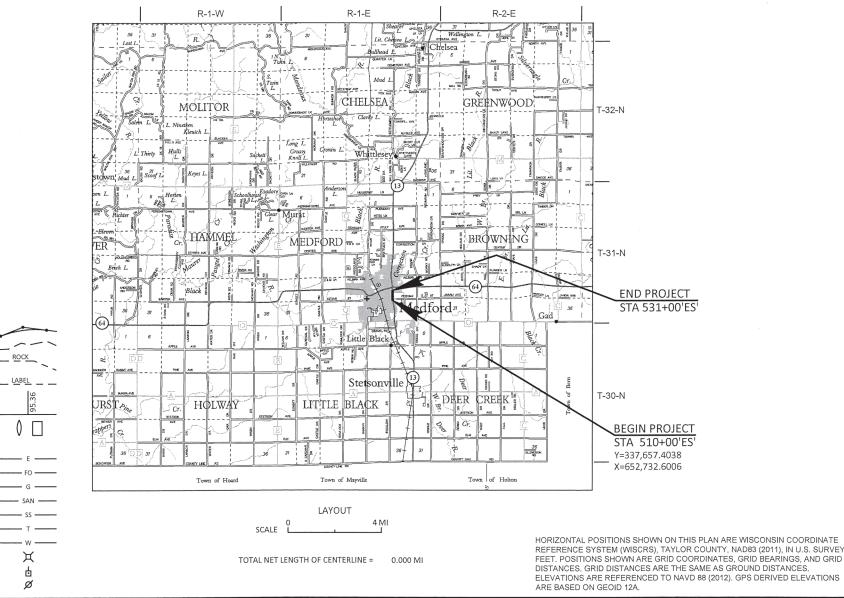
PLAN OF PROPOSED IMPROVEMENT

# C MEDFORD, STH 13

PERKINS STREET TO CLARK STREET

**STH 13 TAYLOR COUNTY** 

3700-50-61	
0100-00-01	



PLAN

FILE NAME :

PROPERTY LINE	
LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE	
SLOPE INTERCEPT	
REFERENCE LINE	300'EB'
EXISTING CULVERT	
PROPOSED CULVERT (Box or Pipe)	
COMBUSTIBLE FLUIDS	CAUTION
MARSH AREA	
WOODED OR SHRUB AREA	£

GRADE LINE <u>///////</u> ORIGINAL GROUND MARSH OR ROCK PROFILE ----(To be noted as such) SPECIAL DITCH GRADE ELEVATION ~ CULVERT (Profile View) UTILITIES ELECTRIC FIBER OPTIC GAS SANITARY SEWER STORM SEWER TELEPHONE WATER UTILITY PEDESTAL POWER POLE

TELEPHONE POLE

PROFILE

X:\UZ\W\WITNW\160526\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\37005061\SHEETSPLAN\SEC 01 TITLE\010101-TI (3700-50-61 STH 13 TRAF SIGNALS - MEDFORD).DWG PLOT DATE : 7/28/2022 3:44 PM

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PLOT BY : SEH PLOT NAME



#### STANDARD ABBREVIATIONS

ABUT	ABUTMENT
AC	ACRE
AGG	AGGREGATE
AECPRC	APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE
AECPCS	APRON ENDWALL FOR CULVERT PIPE CORRUGATED STEEL
ASPH	ASPHALTIC
AVG	AVERAGE
ADT	AVERAGE DAILY TRAFFIC
BF	BACK FACE
BM	BENCH MARK
BR	BRIDGE
CE	COMMERCIAL ENTRANCE
C/L	CENTER LINE
Δ	CENTRAL ANGLE OR DELTA
COB	CENTER OF BARRIER
CONC	CONCRETE
CPRC	CULVERT PIPE REINFORCED CONCRETE
CPRCHE	CULVERT PIPE REINFORCED CONCRETE
	HORIZONTAL ELLIPTICAL
CR	CREEK
CY	
C&G	CURB AND GUTTER
D DHV	DEGREE OF CURVE DESIGN HOUR VOLUME
DHV DISCH	DISCHARGE
DISCH	DITCH GRADE
DWY	DRIVEWAY
X	EAST GRID COORDINATE
	STEEL PLATE BEAM GUARD ENERGY
EAT	ABSORBING TERMINAL
EOR	END POINT OF RADIUS
EL	ELEVATION
ENT	ENTRANCE
ESALS	EQUIVALENT SINGLE AXLE LOADS
EXC	EXCAVATION
EBS	EXCAVATION BELOW SUBGRADE
EXIST	EXISTING
FC	FACE OF CURB
FF	FACE TO FACE
FERT	FERTILIZE
FE	FIELD ENTRANCE
FL	FLOW LINE
FO	FIBER OPTIC
CWT	HUNDREDWEIGHT
HYD	HYDRANT

ID	INSIDE DIAMETER
INV	INVERT
IP	IRON PIPE ON PIN
LHF	LEFT-HAND FORWARD
L	LENGTH OF CURVE
LF	LINEAR FOOT
LC	LONG CHORD OF CURVE
LS	LUMP SUM
MH	MANHOLE
MOR	MID POINT OF RADIUS
NC	NORMAL CROWN
NO	NUMBER
OBLIT	OBLITERATE
PAVT	PAVEMENT
PE	PRIVATE ENTRANCE
PVRC	POINT OF VERTICAL REVERSE CURVE
QOR	QUARTER POINT OF RADIUS
R	RADIUS
REQ'D	REQUIRED
RES	RESIDENCE OR RESIDENTIAL
RHF	RIGHT-HAND FORWARD
R/W	RIGHT-OF-WAY
R	RIVER
RDWY	ROADWAY
R/L	REFERENCE LINE
SALV	SALVAGED
SAN	SANITARY SEWER
SF	SQUARE FEET
SY	SQUARE YARD
SDD	STANDARD DETAIL DRAWINGS
STA	STATION
SS	STORM SEWER
SSPRC	STORM SEWER PIPE REINFORCED
	CONCRETE
SE	SUPERELEVATION RATE
TC	TOP OF CURB
T OR TN	TOWN
Т	TRUCKS (PERCENT OF)
ТҮР	TYPICAL
VAR	VARIABLE
VC	VERTICAL CURVE
Y	NORTH GRID COORDINATE
YD	YARD

# RUNOFF COEFFICIENT TABLE

			A		В			C			D	
	SLOPI	E RANGE	(PERCENT)	s	LOPE RAN	GE (PERCENT)	SL	OPE RAN	GE (PERCENT)	SLO	PERANGE	(PERCENT)
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVE
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:	•	•	•	•	•					•	•	•
ASPHALT						.7095						
CONCRETE						.8095						
BRICK						.7080						
DRIVES, WALKS						.7585						
ROOFS						.7595						
GRAVEL ROADS, SH	OULDERS					.4060						

# DNR AREA LIAISON:

WI DEPT OF NATURAL RESOURCES DNR NORTHERN REGION HEADQUARTERS 107 SUTLIFF RHINFLANDER WI 54501 TELEPHONE: 715.365.8916 ATTENTION: WENDY HENNIGES EMAIL: WENDY.HENNIGES@WISCONSIN.GOV

#### UTILITY CONTACT LIST:

JESSE GRUNY SPECTRUM - COMMUNICATION LINE N5143 CTH E MEDFORD, WI 54451 (715) 651-5605 JESSE.GRUNY@CHARTER.COM

JOE HARRIS CITY OF MEDFORD - SEWER 639 S SECOND STREET MEDFORD, WI 54451 (715) 748-1187 JHARRIS@MEDFORDWI.US

JON VISSERS MEDFORD ELECTRIC UTILITY - ELECTRICITY 639 S SECOND ST MEDFORD, WI 54451 (715) 965-2167 JVISSERS@MEDFORDWI.GOV

JOE HARRIS CITY OF MEDFORD - WATER 639 S SECOND STREET MEDFORD, WI 54451 (715) 748-1187 JHARRIS@MEDFORDWI.US

WISCONSIN DEPARTMENT OF TRANSPORTATION NORTHWEST REGION, EAU CLAIRE OFFICE 718 W. CLAIREMONT AVE. EAU CLAIRE, WI 54701 TELEPHONE: 715.225.1271 ATTENTION: NICHOLAS PITSCH PROJECT MANAGER EMAIL: NICHOLAS.PITSCH@DOT.WI.GOV

JEFF SHAW

PO BOX 240

(715) 323-8464

STEVEN CHAVERS

104 W SOUTH STREET

RICE LAKE, WI 54868

(715) 213-4327

202 E OGDEN STREET

MEDFORD, WI 54451

TDS TELECOM - COMMUNICATION LINE

JEFF.SHAW@TDSTELECOM.COM

WE ENERGIES - GAS/PETROLEUM

STEVEN.CHAVERS@WE-ENERGIES.COM

24 HOUR GAS DISPATCH 1-800-261-5325

WISDOT CONTACT:

DESIGN CONTACT:

SHORT ELLIOTT HENDRICKSON INC. **10 NORTH BRIDGE STREET** CHIPPEWA FALLS, WI 54729-2550 TELEPHONE: 715 720 6291 ATTENTION: TARA KRISTA EMAIL: TKRISTA@SEHINC.COM 3. 6. 9.



## **ORDER OF SHEETS - SECTION 2:**

GENERAL NOTES PROJECT OVERVIEW CONSTRUCTION DETAILS TRAFFIC SIGNALS PERMANENT SIGNING & PAVEMENT MARKING TRAFFIC CONTROL AND CONSTRUCTION STAGING

-						
PROJECT NO:	3700-50-61	HWY: STH 13	COUNTY: TAYLO	OR	GENERAL NOTES	
FILE NAME : X:\UZ\W\WITM	NW\160526\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL	3D\37005061\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\020101_GN (GEN	ERAL NOTES).DWG	PLOT DATE: 10/12/2022 9:00 AM	PLOT BY : SEH	LAYOUT NAME : 01

# **GENERAL NOTES:**

1. NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

4. WETLANDS, WATERWAYS, AND OTHER ENVIRONMENTALLY SENSITIVE AREAS SHALL BE PROTECTED AT ALL TIMES. DO NOT STORE EQUIPMENT OR MATERIALS NEAR THESE SITES UNLESS APPROVED BY THE ENGINEER.

5. TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

REMOVAL OF EROSION CONTROL DEVICES IS INCLUDED IN THE COST OF THEIR **RESPECTIVE BID ITEMS.** 

7. THE EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

8. ASPHALTIC AND CONCRETE SURFACES SHALL BE SAWCUT AT THE MATCH LINE AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

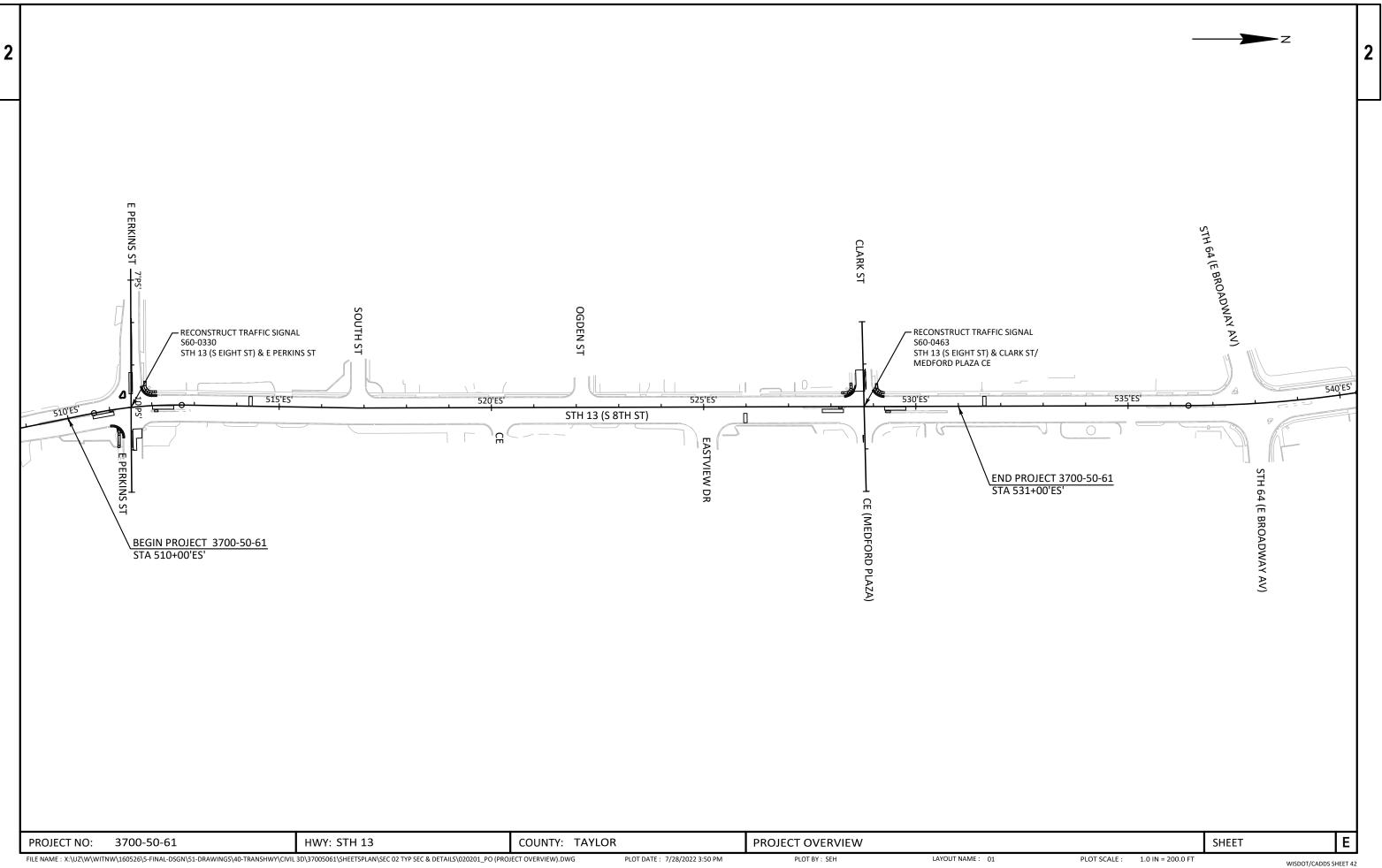
DISTURBED AREAS WITHIN THE RIGHT OF WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE TOPSOILED, FERTILIZED AND SODDED.

10. FERTILIZER SHALL NOT BE USED NEAR NAVIGABLE WATERWAYS OR WETLANDS.

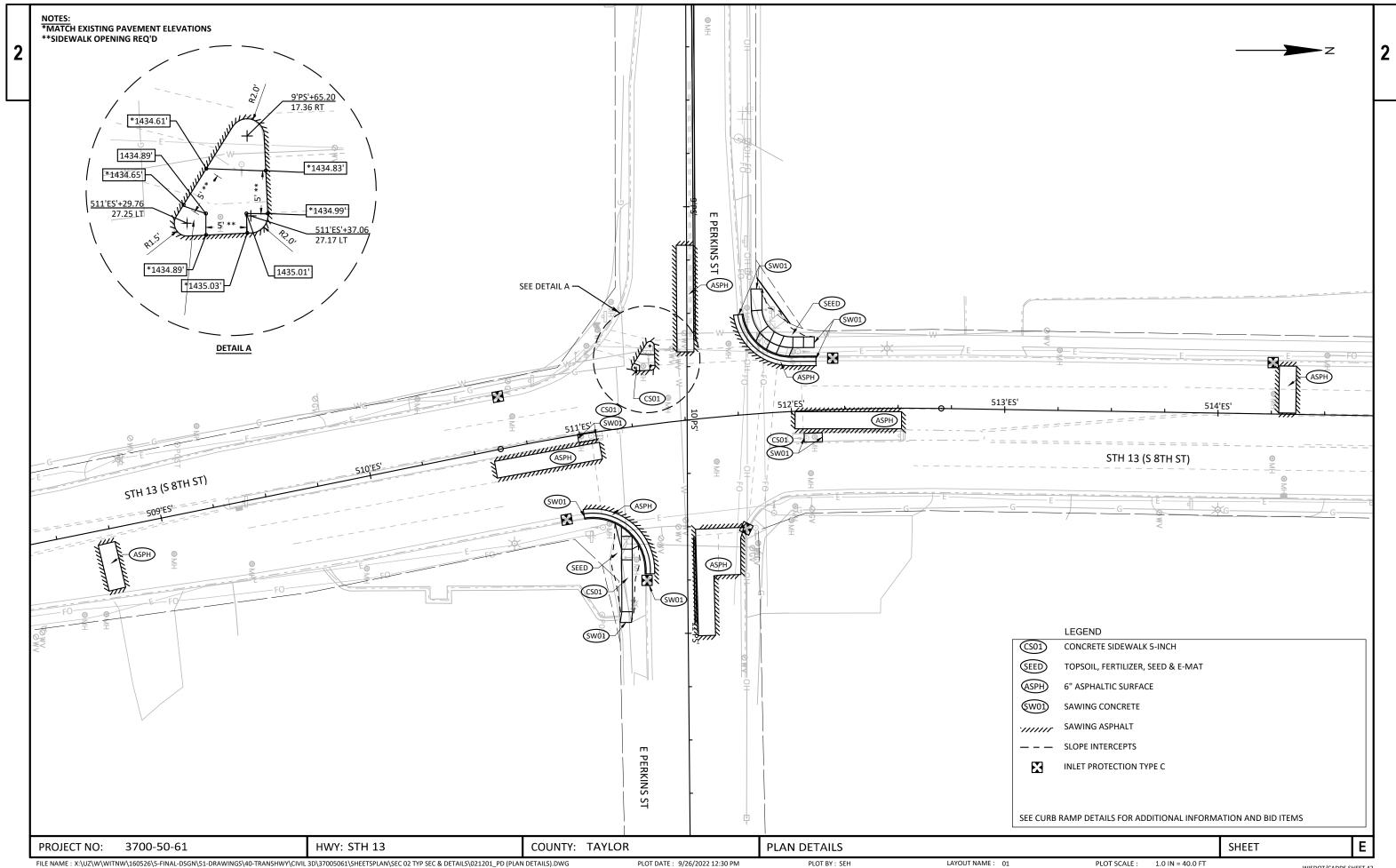
11. A CONVERSION FACTOR OF 2.0 TONS/CY IS USED TO ESTIMATE QUANTITIES FOR BASE AGGREGATE DENSE.

12. APPLY TACK COAT AT A RATE OF 0.07 GAL/SY TO MILLED SURFACE AND 0.05 GA/SY BETWEEN LAYERS OF HMA PAVEMENT.

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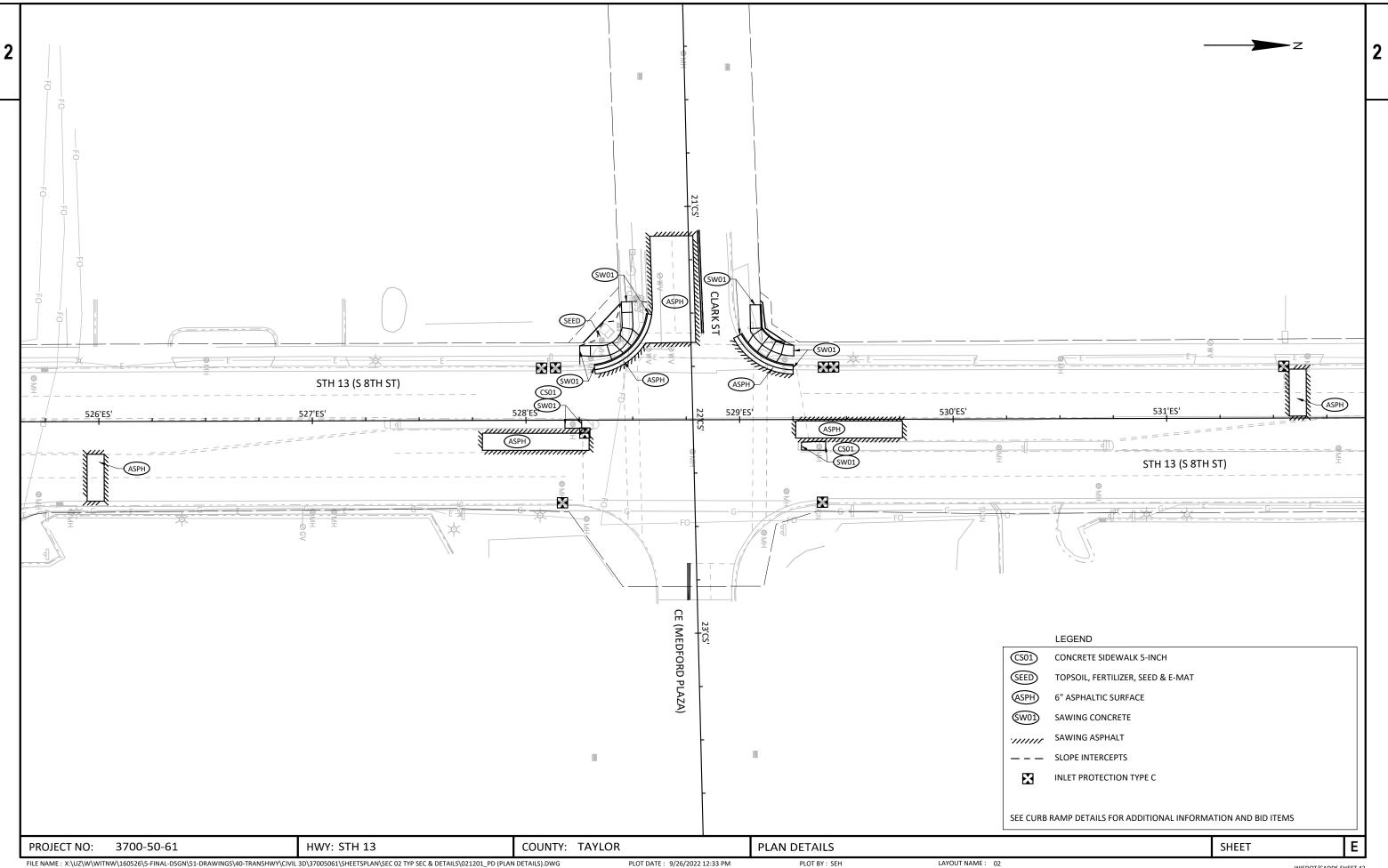


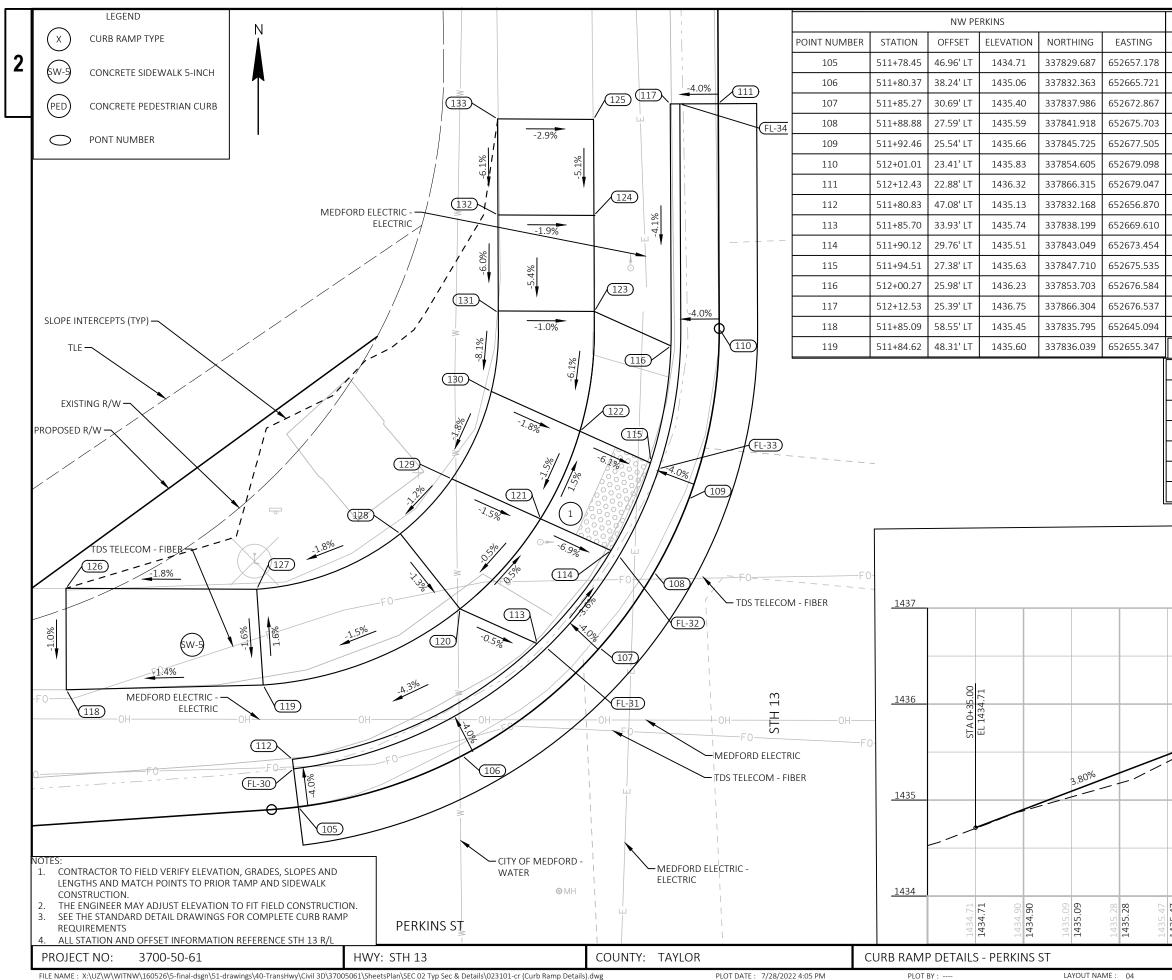
FILE NAME : X:\UZ\W\WITNW\160526\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\37005061\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\020201\_PO (PROJECT OVERVIEW).DWG PLOT DATE: 7/28/2022 3:50 PM PLOT BY : SEH LAYOUT NAME: 01



FILE NAME : X:\UZ\W\WITNW\160526\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\37005061\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\021201\_PD (PLAN DETAILS).DWG

PLOT DATE : 9/26/2022 12:30 PM

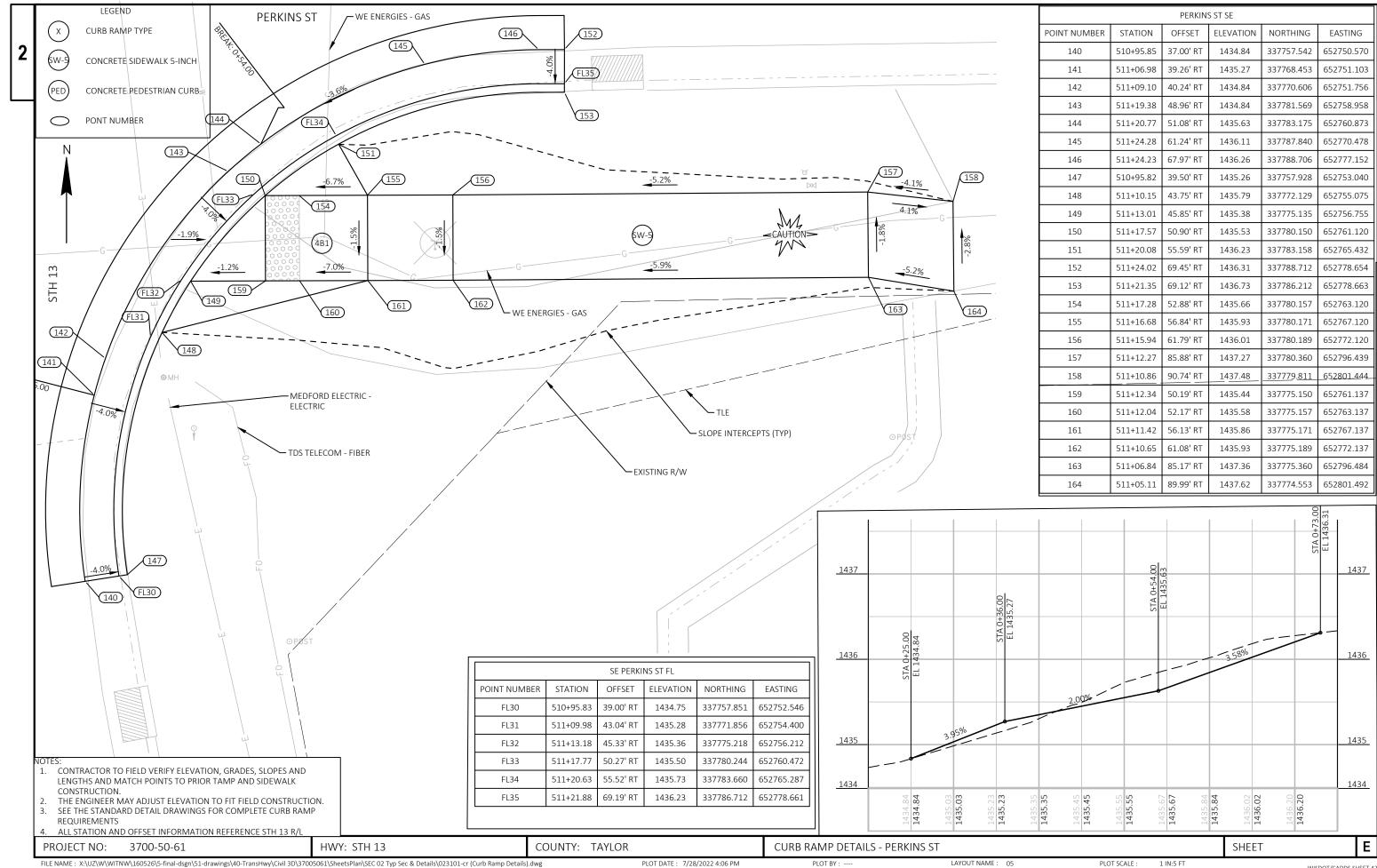




FILE NAME : X:\UZ\W\WITNW\160526\5-final-dsgn\51-drawings\40-TransHwy\Civil 3D\37005061\SheetsPlan\SEC 02 Typ Sec & Details\023101-cr (Curb Ramp Details).dwg LAYOUT NAME - 04

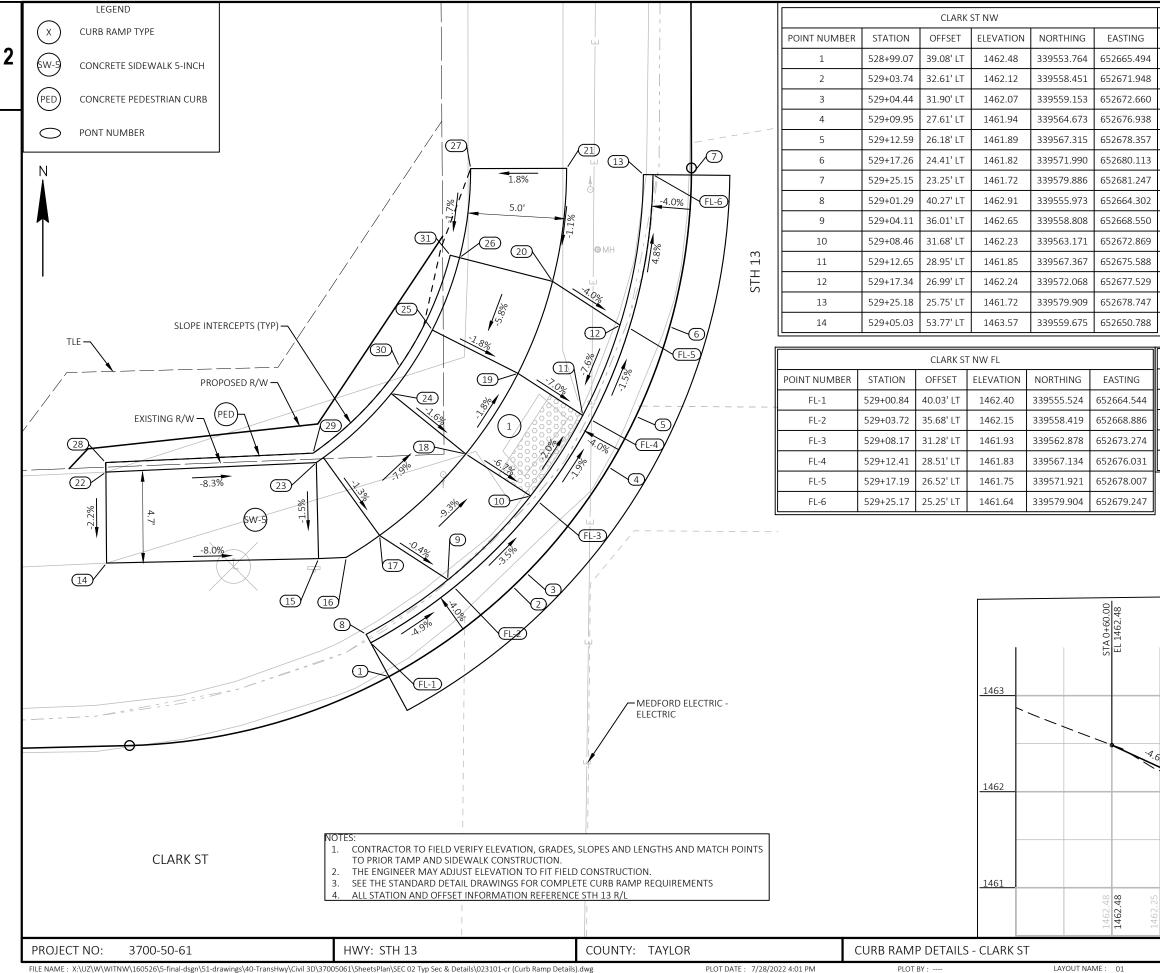
PLOT DATE: 7/28/2022 4:05 PM

		NW PE	RKINS			
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	
120	511+87.71	37.80' LT	1435.76	337840.005	652665.597	2
121	511+91.95	33.30' LT	1435.79	337844.698	652669.789	-
122	511+96.23	30.97' LT	1435.87	337849.258	652671.841	
123	512+02.22	29.86' LT	1436.25	337855.498	652672.593	
124	512+07.07	29.62' LT	1436.51	337860.498	652672.572	1
125	512+11.91	29.41' LT	1436.76	337865.498	652672.551	1
126	511+90.06	58.20' LT	1435.50	337841.078	652645.078	1
127	511+89.38	48.29' LT	1435.68	337841.028	652655.010	1
128	511+91.66	40.64' LT	1435.83	337843.921	652662.489	1
129	511+94.23	37.78' LT	1435.87	337846.775	652665.171	1
130	511+98.50	35.46' LT	1435.96	337851.335	652667.222	1
131	512+02.42	34.86' LT	1436.29	337855.428	652667.594	1
132	512+07.33	34.62' LT	1436.60	337860.523	652667.572	1
133	512+12.15	34.41' LT	1436.91	337865.524	652667.550	1
						1
		NW PER	KINS FL			1
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	ĺ
FL-30	511+80.36	47.05' LT	1434.63	337831.672	652656.932	Í
FL-31	511+85.45	33.45' LT	1435.25	337837.978	652670.102	Í
FL-32	511+89.82	29.35' LT	1435.50	337842.761	652673.878	Í
FL-33	511+94.09	27.00' LT	1435.60	337847.303	652675.944	ĺ
FL-34	512+12.51	24.88' LT	1436.24	337866.307	652677.047	ĺ
						1
STA 0+58.00 EL 1435.59	1.80%	STA 0+72.00 EL 1435.84	- 7. 472%	STA 0+85.00	1437 1436 1436 1435	
1435.47 1435.62 1435.62	1435.71 1435.71	1435.80 1435.80 1435.97	1435.97 1435.97 1436.19 1436.19	1436.41 1436.41	1434_	
			SHEET	-	E	Í
PLOT	T SCALE : 1	IN:5 FT			DOT/CADDS SHEET 42	<b>u</b> :



LAYOUT NAME - 05

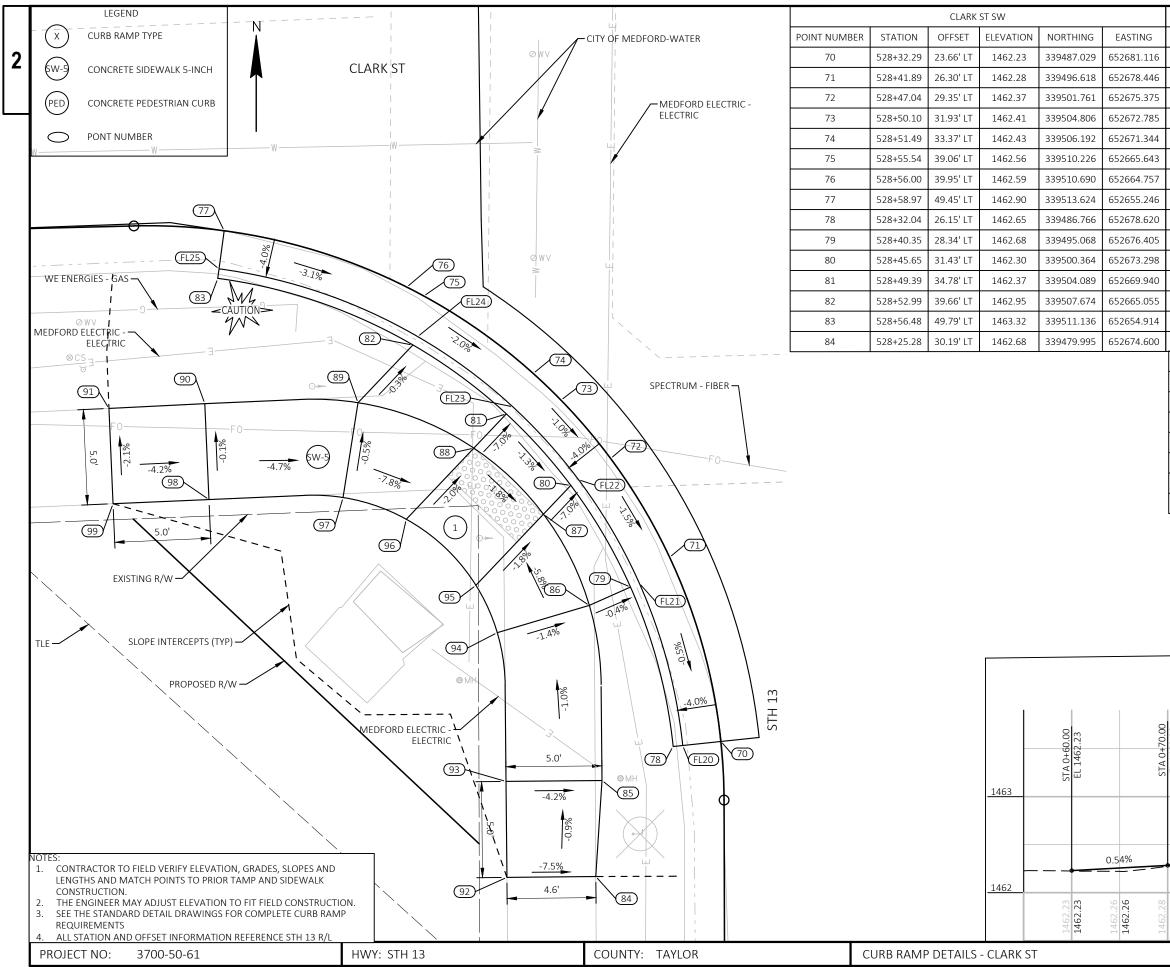
PERKINS ST SE						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	
140	510+95.85	37.00' RT	1434.84	337757.542	652750.570	2
141	511+06.98	39.26' RT	1435.27	337768.453	652751.103	
142	511+09.10	40.24' RT	1434.84	337770.606	652751.756	
143	511+19.38	48.96' RT	1434.84	337781.569	652758.958	
144	511+20.77	51.08' RT	1435.63	337783.175	652760.873	
145	511+24.28	61.24' RT	1436.11	337787.840	652770.478	
146	511+24.23	67.97' RT	1436.26	337788.706	652777.152	
147	510+95.82	39.50' RT	1435.26	337757.928	652753.040	
148	511+10.15	43.75' RT	1435.79	337772.129	652755.075	
149	511+13.01	45.85' RT	1435.38	337775.135	652756.755	
150	511+17.57	50.90' RT	1435.53	337780.150	652761.120	
151	511+20.08	55.59' RT	1436.23	337783.158	652765.432	
152	511+24.02	69.45' RT	1436.31	337788.712	652778.654	
153	511+21.35	69.12' RT	1436.73	337786.212	652778.663	
154	511+17.28	52.88' RT	1435.66	337780.157	652763.120	
155	511+16.68	56.84' RT	1435.93	337780.171	652767.120	
156	511+15.94	61.79' RT	1436.01	337780.189	652772.120	
157	511+12.27	85.88' RT	1437.27	337780.360	652796.439	
158	511+10.86	90.74' RT	1437.48	337779.811	652801.444	
159	511+12.34	50.19' RT	1435.44	337775.150	652761.137	
160	511+12.04	52.17' RT	1435.58	337775.157	652763.137	
161	511+11.42	56.13' RT	1435.86	337775.171	652767.137	
162	511+10.65	61.08' RT	1435.93	337775.189	652772.137	
163	511+06.84	85.17' RT	1437.36	337775.360	652796.484	
164	511+05.11	89.99' RT	1437.62	337774.553	652801.492	

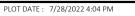


LAYOUT NAME - 01

PLOT DATE: 7/28/2022 4:01 PM

		CLARK	ST NW			
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	
15	529+05.23	42.73' LT	1462.68	339559.909	652661.830	2
16	529+05.29	41.29' LT	1462.68	339559.974	652663.271	
17	529+06.43	39.55' LT	1462.66	339561.116	652665.009	
18	529+10.66	35.05' LT	1462.22	339565.358	652669.496	
19	529+14.84	32.31' LT	1462.13	339569.553	652672.216	
20	529+19.63	30.50' LT	1462.40	339574.345	652674.016	
21	529+25.52	29.75' LT	1462.47	339580.235	652674.748	
22	529+09.77	53.79' LT	1463.67	339564.412	652650.754	
23	529+10.23	42.83' LT	1462.76	339564.908	652661.711	
24	529+13.82	38.92' LT	1462.30	339568.508	652665.613	
25	529+17.12	36.77' LT	1462.22	339571.811	652667.754	
26	529+20.88	35.34' LT	1462.48	339575.583	652669.172	
27	529+25.52	34.75' LT	1462.56	339580.220	652669.748	
				•		
	(	CLARK ST NV	V PED CURB			
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	
28	529+10.27	53.81' LT	1463.67	339564.911	652650.732	
29	529+10.72	43.00' LT	1463.26	339565.401	652661.545	
30	529+15.22	38.49' LT	1462.77	339569.912	652666.042	
31	529+21.01	35.82' LT	1462.48	339575.707	652668.687	
STA 0+69.00 EL 1462.07	STA 0+79.00	EL 1461.89		STA 0+92.00 EL 1461.72	1463	
	1.80%		1.31%			
1462.25 1462.05 1462.05	1461.96 <b>1461.96</b>	1461.88 1461.88 1461.88		C/T04T	1461	
			SHEET		E	
PLOT	SCALE: 1	IN:5 FT		WISE	DOT/CADDS SHEET 42	

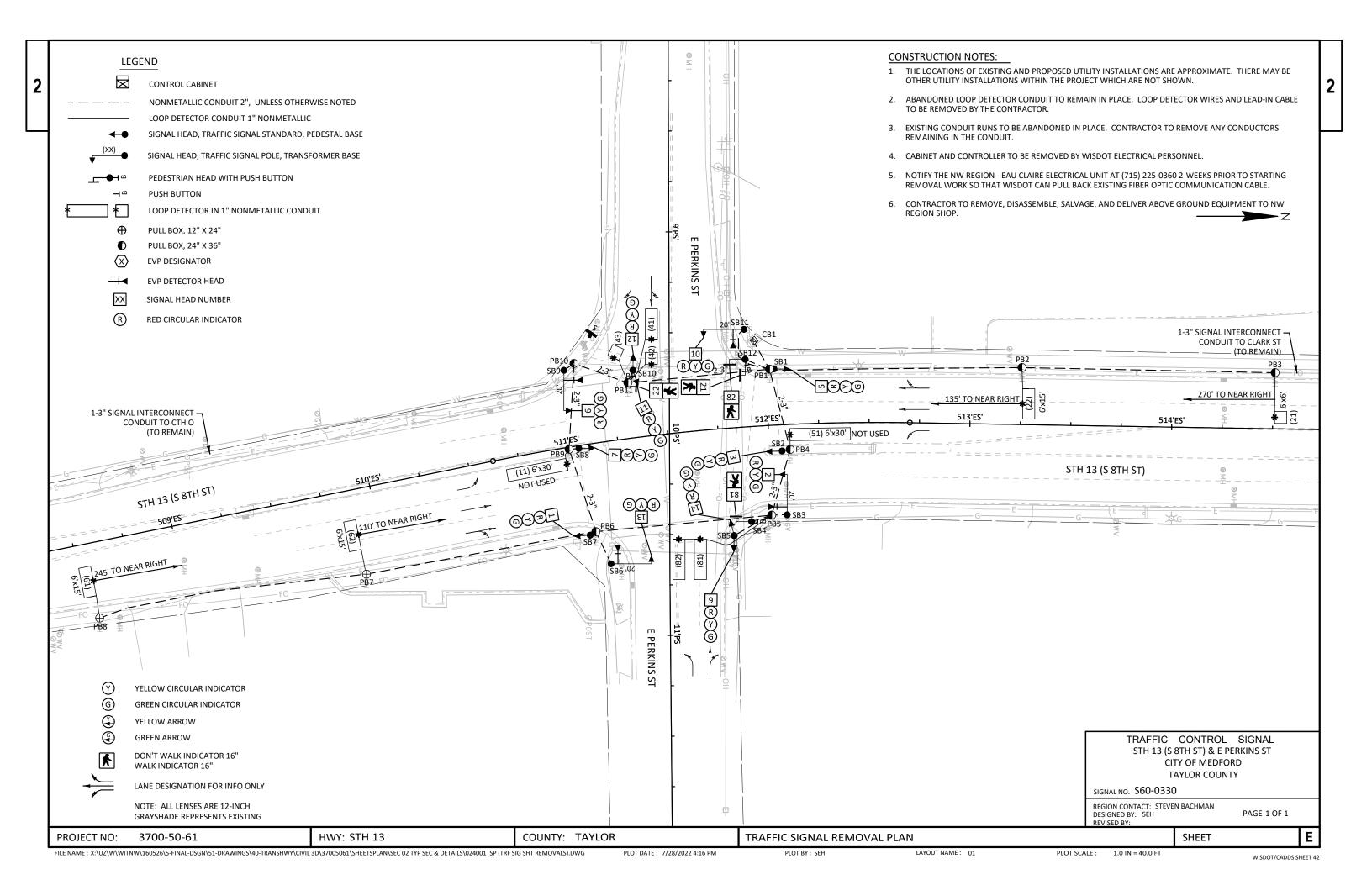


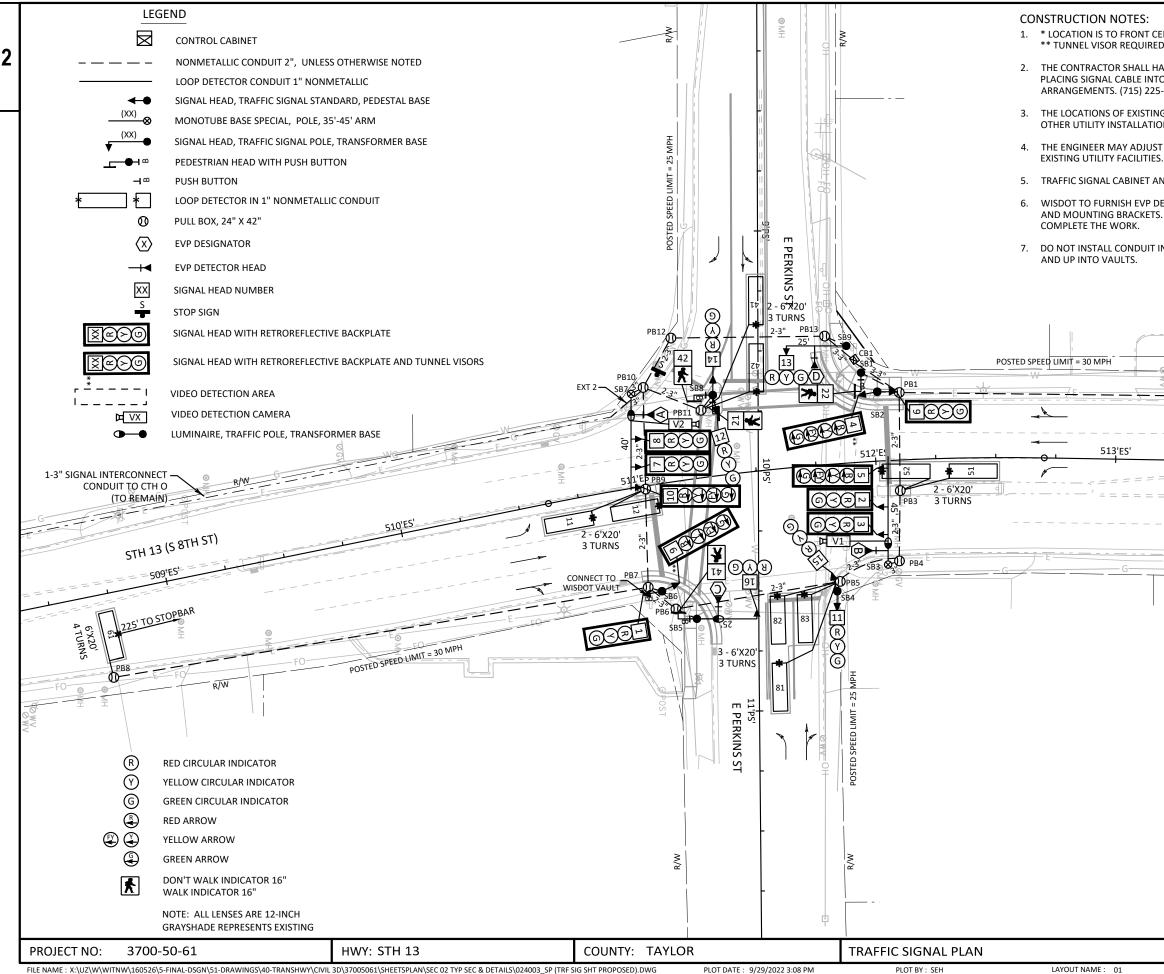




LAYOUT NAME: 03

		CLARK S	ST SW			
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	
85	528+30.28	29.85' LT	1462.71	339484.997	652674.925	2
86	528+39.40	30.49' LT	1462.69	339494.113	652674.260	<b>~</b>
87	528+44.15	32.87' LT	1462.45	339498.861	652671.872	
88	528+47.61	36.48' LT	1462.54	339502.302	652668.244	
89	528+49.99	42.50' LT	1462.97	339504.669	652662.219	
90	528+49.97	50.48' LT	1463.33	339504.623	652654.240	
91	528+49.73	55.48' LT	1463.49	339504.372	652649.246	
92	528+25.25	34.82' LT	1463.03	339479.949	652669.973	
93	528+30.25	34.85' LT	1462.92	339484.949	652669.925	
94	528+37.99	35.29' LT	1462.76	339492.693	652669.466	
95	528+40.46	36.39' LT	1462.54	339495.155	652668.356	
96	528+43.91	40.01' LT	1462.64	339498.597	652664.729	
97	528+45.05	43.30' LT	1462.99	339499.730	652661.438	
98	528+44.97	50.28' LT	1463.33	339499.627	652654.455	
99	528+44.77	55.28' LT	1463.59	339499.411	652649.460	
		CLARK S	T SW FL	•		
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	
FL20	528+32.09	25.65' LT	1462.15	339486.820	652679.127	
FL21	528+40.54	27.88' LT	1462.20	339495.267	652676.864	
FL22	528+45.95	31.03' LT	1462.30	339500.664	652673.699	
FL23	528+49.75	34.44' LT	1462.35	339504.456	652670.279	
FL24	528+53.42	39.39' LT	1462.47	339508.111	652665.325	
FL25	528+56.98	49.72' LT	1463.07	339511.634	652654.980	
				<u> </u>		
EL 1462.28 STA 0+76.00 EL 1462.37	STA 0+82.00 EL 1462.43	STA 0+89.00 E1 1462 56		STA 1+00.00 EL 1462.90	1463	
1462.28 1462.36 1462.36		1462.49 1462.59	1462.59 1462.75 1462.75 1462.75	1462.90		
· I		1	SHEET		E	
PLO	T SCALE : 1 I	N:5 FT		WIED	OT/CADDS SHEET 42	

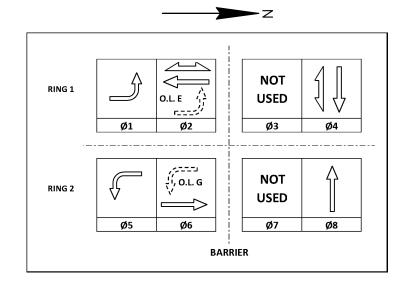




ENTER OF DETECTOR LC	OP.			
AVE THE PULL BOXES AI O SYSTEM. CONTACT T -0360.				2
G AND PROPOSED UTIL			HERE MAY BE	P
THE LOCATIONS OF IT	EMS UNDER THIS CONT	RACT TO AVOID CO	ONFLICT WITH	
ND CONTROLLER TO BE	FURNISHED AND INST	ALLED BY WISDOT F	PERSONNEL.	
ETECTORS AND MOUN . CONTRACTOR TO FUR				
NTO SIDEWALL OF WIS	DOT COMMUNICATION	IS VAULT. SWEEP (	CONDUIT UNDER	
				-
		1-3" SIGNAL INT CONDUIT	ERCONNECT TO CLARK ST	
	/w	EXT 1		
<u> </u>			-+	
<u> </u>				_
				-
	225		6'X20' 3 TURNS	
		5' <u>TO STOPBAR</u>		-
	514	'ES' ≟	m	
=========	======			-
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		<u>-</u>		
- E		T		
G		<u> </u>	G	
/	≷ R/W			
Г	TRAFFIC	CONTROL		-
	-	8TH ST) & E PER	-	
		TY OF MEDFORD		
		AYLOR COUNTY		
		CABINET TY	PE: TS-2	
	SIGNAL NO. S60-033	30 CONTROLLE	ER TYPE: ASC/3	
Γ	WISCONSIN DEPA	ARTMENT OF TRA	NSPORTATION	
	APPROVAL RECOMMEND	ED Daniel	Familia	
	date <u>9-30-202</u> 2		FEIC ENGINEER	
	APPROVED		P	
	DATE 9/30/22	STATE		
F	REGION CONTACT: STEVE DESIGNED BY: SEH	N BACHMAN	PAGE 1 OF 3	1
	REVISED BY:			4
		SHEET	E	
PLOT SCAL	E : 1.0 IN = 40.0 FT			

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		-
		F
		L
	HEAD	A
	NUMBERS	S
	NUNIDERS	н
Ø1	4,5	R
Ø2	6,7,8	R
Ø4	14,15,16	R
Ø5	9,10	R
Ø6	1,2,3	R
Ø8	11,12,13	R
Ø2P	21,22	
Ø4P	41,42	
OLE	4,5	-
OLG	9,10	-



# CONTROLLER LOGIC

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

CHART 1

	NONCONFLICTING	PHASES IN
PHASE ON	PHASE ALLOWED TO	CONFLICT WITH
	TIME CONCURRENTLY	PHASE ON
	5.00.6	2.4.0
1	5 OR 6	2,4,8
2	5 OR 6	1,4,8
3	NOT USED	
4	8	1,2,5,6
5	1 OR 2	4,6,8
6	1 OR 2	4,5,8
7	NOT USED	
8	4	1,2,5,6

# **GENERAL NOTES:**

- **1.** ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
- 2 WHEN ONE PHASE IS ON ALONE, ANY NON-CONFLICTING PHASE MAY START TIMING CONCURRENTLY. SEE CHART 1.

# DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	11	21	42	52	81	83											PLAN LOOP DETECTOR*(S
CALLED PHASE	1	2	4	5	8	8											CALLED PHASE
CALL OPTION	х	X	X	Х	X	X											CALL OPTION
DELAY TIME																	DELAY TIME
EXTENTION OPTION	х	х	х	х	X	X											EXTENTION OPTION
EXTEND TIME																	EXTEND TIME
USE ADDED INITIAL	Х	х	х	X	X	X											USE ADDED INITIAL
CROSS SWITCH PHASE																	CROSS SWITCH PHASE
DETECTOR INPUT	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	12	41	51	61	82												PLAN LOOP DETECTOR*(
CALLED PHASE	1	4	5	6	8												CALLED PHASE
CALL OPTION	х	x	x	x	x												CALL OPTION
DELAY TIME																	DELAY TIME
EXTENTION OPTION	х	x	х	x	x												EXTENTION OPTION
EXTEND TIME																	EXTEND TIME
	х	х	х	x	х												USE ADDED INITIAL
USE ADDED INITIAL																	CROSS SWITCH PHASE

PROJECT NO:	3700-50-61	HWY: STH 13	COUNTY: TAYLOR		SEQUENCE OF OPERATION	
FILE NAME : X:\UZ\W\WITM	WV\160526\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL	3D\37005061\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\024002_SP (TRF S	SIG SHT SOO).DWG P	LOT DATE : 7/28/2022 4:33 PM	PLOT BY : SEH	LAYOUT NAME : SEQ OF OP PERK

ATION
х

TYPE OF COORDINATION				
NONE		Х		
твс				
TRAFFIC RESPONSIVE				
ADAPTIVE				
*LOCATION OF MASTER				
CONTROLLER NO:	S-			
SIGNAL SYSTEM NO:	SS-			

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

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

Y VEHICLE PR	REEMPTION	SEQUENCE	
A	В	с	D
3	4	5	6
N. A	¥	↓↑	↓↑
SB	NB	EB	WB
2+5	6+1	4+8	8+4
	A 3 V	A B 3 4 5B NB	3 4 5 → → → → → → → → → → → → → → → → → → →

NOTES: FULL CLEARANCE AND MINIMUM GREEN INTERVALS SHALL ALWAYS BE PROVIDED.

STH 13 (S. 8TH STREET) & E. PERKINS STREET						
CITY OF MEDFORD						
TAYLOR COUNTY						
SIGNAL NO:	S60-0330	CABINET TYPE: TS2				
CONTROLLER TYPE: ASC/3 - 1000						
DATE: 06/2	022	PAGE NO. 2 OF 2				
		SHEET	E			

<pre><flash <green=""> <yell( <="" blk="" e="" grn="" pre="" wht=""></yell(></flash></pre>
GRN/BLK WHT/E
GRN/BLK WHT/E
GRN/BLK WHT/E
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GRN/BLK WHT/E
BLE
TO 37 (HEAD A)
33 (HEAD B)
35 (HEAD C)
39 (HEAD D)

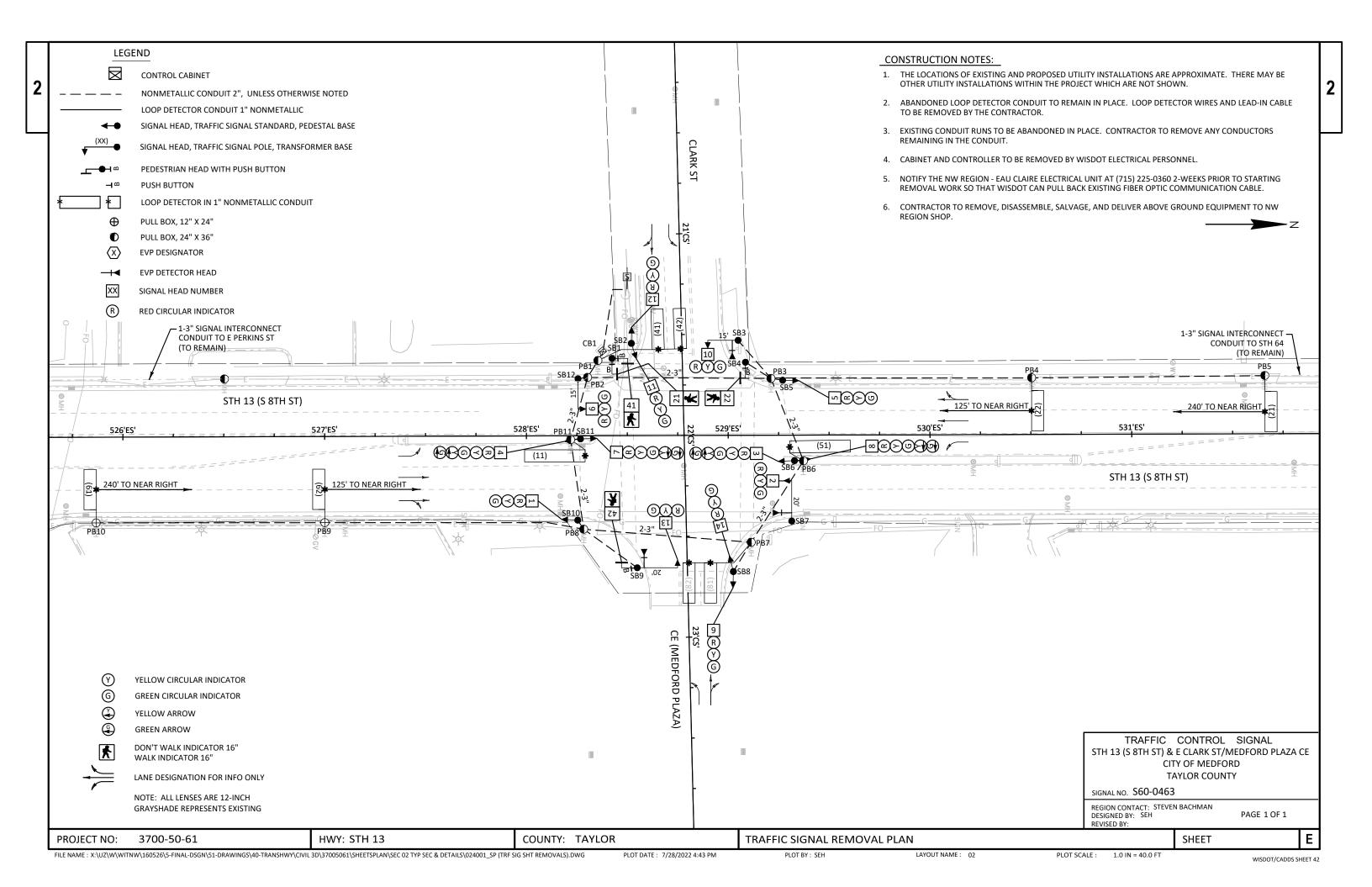
D/WALK	WALK	PED BUTTON	OTHER
BLK	BLU		
BLK	BLU		
BLK	BLU		
BLK/WHT	BLU/BLK		
		-	
FROM	I (LOOP LEAD-IN TO	-	
CB1	SB1		
CB1 CB1	SB5 SB8	_	
CB1	SB8		
		-	
		-	
		_	
	TDAFFIC		
	STH 13 (S 8	CONTROL S TH ST) & E PERM	
		Y OF MEDFORD	
	SIGNAL NO. 560-0330		
	REGION CONTACT: STEVEN DESIGNED BY:	BACHMAN	PAGE 3 OF 3
	REVISED BY:		

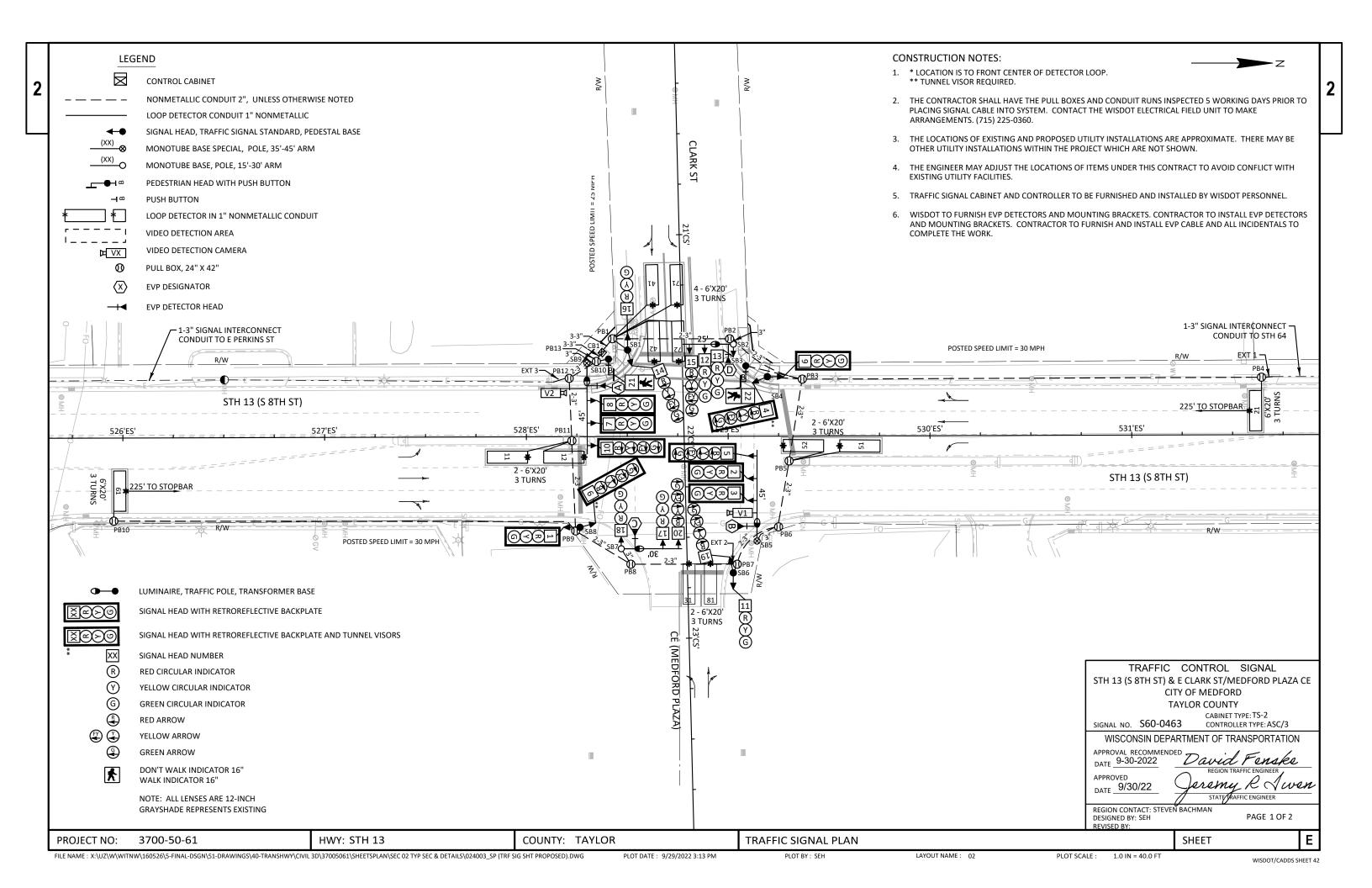
SHEET

PLOT SCALE : 1.0 IN = 40.0 FT

WISDOT/CADDS SHEET 42

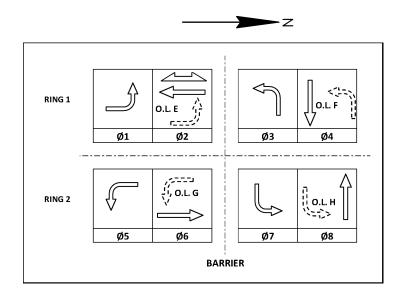
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	HEAD	Α
	NUMBERS	S
	NONIDERS	Н
Ø1	4,5	R
Ø2	6,7,8	R
Ø3	14,15	₽
Ø4	16,17,18	R
Ø5	9,10	R
Ø6	1,2,3	R
Ø7	19,20	₽
Ø8	11,12,13	R
Ø2P	21,22	
OLE	4,5	-
OLF	14,15	-
OLG	9,10	-
OLH	19,20	-



# CONTROLLER LOGIC

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

CHART 1

	NONCONFLICTING	PHASES IN
PHASE ON	PHASE ALLOWED TO	CONFLICT WITH
	TIME CONCURRENTLY	PHASE ON
1	5 OR 6	2,3,4,7,8
2	5 OR 6	1,3,4,7,8
3	7 OR 8	1,2,4,5,6
4	7 OR 8	1,2,3,5,6
5	1 OR 2	3,4,6,7,8
6	1 OR 2	3,4,5,7,8
7	3 OR 4	1,2,5,6,8
8	3 OR 4	1,2,5,6,7

# **GENERAL NOTES:**

- 1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
- 2 WHEN ONE PHASE IS ON ALONE, ANY NON-CONFLICTING PHASE MAY START TIMING CONCURRENTLY. SEE CHART 1.

# DETECTOR LOGIC

	2	4	7	-	44	0	45	12		10	47	22	24	27	25	24	20	
	3	1	,	5	11	9	15	13	_	19	17	23	21	27	25	31	29	
PLAN LOOP DETECTOR*(S)	11	21	41	51	61	72												PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	2	4	5	6	7												CALLED PHASE
CALL OPTION	х	X	X	X	X	X												
DELAY TIME																		
EXTENTION OPTION	х	x	X	X	x	X												
EXTEND TIME																		EXTEND TIME
USE ADDED INITIAL	Х	X	X	X	X	X												USE ADDED INITIAL
CROSS SWITCH PHASE																		CROSS SWITCH PHASE
_				_												-		_
DETECTOR INPUT	4	2	8	6	12	10	16	14		20	18	24	22	28	26	32	30	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	12	31	42	52	71	81												PLAN LOOP DETECTOR*(S)
CALLED PHASE	1	3	4	5	7	8												CALLED PHASE
CALL OPTION	х	X	X	X	X	X												CALL OPTION
DELAY TIME																		DELAY TIME
EXTENTION OPTION	х	X	х	X	X	X												EXTENTION OPTION
EXTEND TIME																		EXTEND TIME
USE ADDED INITIAL	х	X	х	X	X	X												USE ADDED INITIAL
CROSS SWITCH PHASE																		CROSS SWITCH PHASE
		1		1		1	1	J			1	1		1	1	1	1	
PROJECT NO: 3700-50-61				HWY: S	STH 13				COL	JNTY:	TAYL	OR				SEQUE	ENCE C	F OPERATION

FILE NAME : X:\UZ\W\WITNW\160526\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\37005061\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\024002\_SP (TRF SIG SHT SOO).DWG

PLOT DATE: 7/28/2022 4:58 PM

PLOT BY : SEH

LAYOUT NAME : SEQ OF OP CLARK

TYPE OF INTERCONNECT/COMMUNICATION				
NONE				
CLOSED LOOP				
TWISTED PAIR				
FIBER OPTIC*	X			
FIBER OPTIC (ETHERNET)				
RADIO				
CELL MODEM				

TYPE OF COORDINATION					
NONE		Х			
твс					
TRAFFIC RESPONSIVE					
ADAPTIVE					
*LOCATION OF MASTER					
CONTROLLER NO:	S-				
SIGNAL SYSTEM NO:	SS-				

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

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	В	с	D
PREEMPTION CHANNEL	3	4	5	6
MOVEMENT				1٢
DIRECTION	SB	NB	EB	WB
PHASE	2+5	6+1	4+7	8+3

NOTES: FULL CLEARANCE AND MINIMUM GREEN INTERVALS SHALL ALWAYS BE PROVIDED.

STH 13 (S. 8TH	STREET) & E. CLARK STREET	
ci	TY OF MEDFORD	
<u>ر ۲</u>	AYLOR COUNTY	
SIGNAL NO: \$60-0463	CABINET TYPE: TS2	
	CONTROLLER TYPE: ASC/3 - 1	000
DATE: 06/2022	PAGE NO. 2 OF 2	
	SHEET	Е

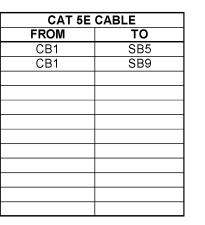
WISDOT/CADDS SHEET 42

#### PROJECT ID: 3700-50-61 INTERSECTION: STH 13 (S. 8TH STREET) & E. CLARK ST/MEDFORD PLAZA

SIGNAL WIREBLK - BLACK RED - REDGRN - GREENCOLOR CODINGWHT - WHITEBLU - BLUEORG - ORANGE

JUMPER	AWG 14 # OF COND. 12 12 12	HEAD NO. 14 16 12 13	PHASE           3           4           8	RED	<b>YELLOW</b> ORG	<b>GREEN</b> GRN	< <b>RED&gt;</b> RED/BLK	<yellow> ORG/BLK</yellow>	<green></green>	<flashing> <yellow></yellow></flashing>	D/WALK	WALK	PED BUTTON	
JUMPER	12	14 16 12	3 4 8	RED							D/WALK	WALK		
		16 12	4		ORG	GPN	RED/BLK							
	12	12	8		ORG			OKOBLK	GRN/BLK	WHT/BLK				
	12					GININ								
	12					0.511								<u> </u>
		13	-	RED	ORG	GRN								
			8	RED	ORG	GRN								
		15	3				RED/BLK	ORG/BLK	GRN/BLK	WHT/BLK				
	7	22	2 PED								BLK	BLU		
	,		2,20								BER			-
	12	4	1				RED/BLK	ORG/BLK	GRN/BLK	WHT/BLK				
		6	2	RED	ORG	GRN								
	12	2	6											
			6	RED	ORG	GRN								
		5	1				RED/BLK	ORG/BLK	GRN/BLK	WHT/BLK				
						0.511								
	12			RED	ORG	GRN			0.001/01//					
		19	3				RED/BLK	ORG/BLK	GRN/BLK	WHI/BLK				
	12	17	1	RED		GRN								
	12													
			7			ORIN	RED/BLK	ORG/BLK	GRN/BLK	WHT/BLK				-
	12	1	6	RED	ORG	GRN								
		9	5				RED/BLK	ORG/BLK	GRN/BLK	WHT/BLK				_
						0.001								
	12	'												
				L KED		GRN								+
		10	5				REDIBLK	UKG/BLK	GKIWBLK	VVHI/BLK				+
	7	21	2 PED		+						BLK	BLU		+
		12	6         12       2         3       3         5         12       11         12       11         19       19         12       17         18       20         12       1         9       12         12       1         9       12         112       1         9       11         12       1         12       1         11       10	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	6         2         RED           12         2         6         RED           3         6         RED           5         1         1           12         11         8         RED           12         11         8         RED           12         11         8         RED           12         11         8         RED           12         17         4         RED           12         17         4         RED           20         7         -         -           12         17         6         RED           12         1         6         RED           12         7         2         RED           12         7         2         RED           12         7         2         RED           8         2         RED         RED           10         5         10         10         5	6         2         RED         ORG           12         2         6         RED         ORG           12         3         6         RED         ORG           12         12         1         8         RED         ORG           12         11         8         RED         ORG           12         11         8         RED         ORG           12         11         8         RED         ORG           12         17         4         RED         ORG           12         1         6         RED         ORG           9         5              12         7         2         RED         ORG           12         7         2         RED         ORG           8         2         RED         ORG           10	6         2         RED         ORG         GRN           12         2         6         RED         ORG         GRN           12         2         6         RED         ORG         GRN           3         6         RED         ORG         GRN           5         1         -         -         -           12         11         8         RED         ORG         GRN           12         11         8         RED         ORG         GRN           12         11         8         RED         ORG         GRN           12         17         4         RED         ORG         GRN           12         17         4         RED         ORG         GRN           20         7         -         -         -         -           12         1         6         RED         ORG         GRN           9         5         -         -         -         -           12         7         2         RED         ORG         GRN           8         2         RED         ORG         GRN         - <t< td=""><td>6         2         RED         ORG         GRN           12         2         6         RED         ORG         GRN           3         6         RED         ORG         GRN         RED/BLK           5         1          RED/BLK         RED/BLK           12         11         8         RED         ORG         GRN           12         11         8         RED         ORG         GRN           12         11         8         RED         ORG         GRN           12         17         4         RED         ORG         GRN           12         1         6         RED         ORG         GRN           12         1         6         RED         ORG         GRN           12         7         2         RED         ORG</td></t<> <td>6         2         RED         ORG         GRN         Image: constraint of the second second</td> <td>6         2         RED         ORG         GRN         Image: constraint of the second second</td> <td>6         2         RED         ORG         GRN         Image: Constraint of the second second</td> <td>12       2       RED       ORG       GRN       Image: constraint of the second s</td> <td>6       2       RED       ORG       GRN       Image: Constraint of the second se</td> <td>12       2       6       RED       ORG       GRN       Image: constraint of the second secon</td>	6         2         RED         ORG         GRN           12         2         6         RED         ORG         GRN           3         6         RED         ORG         GRN         RED/BLK           5         1          RED/BLK         RED/BLK           12         11         8         RED         ORG         GRN           12         11         8         RED         ORG         GRN           12         11         8         RED         ORG         GRN           12         17         4         RED         ORG         GRN           12         1         6         RED         ORG         GRN           12         1         6         RED         ORG         GRN           12         7         2         RED         ORG	6         2         RED         ORG         GRN         Image: constraint of the second	6         2         RED         ORG         GRN         Image: constraint of the second	6         2         RED         ORG         GRN         Image: Constraint of the second	12       2       RED       ORG       GRN       Image: constraint of the second s	6       2       RED       ORG       GRN       Image: Constraint of the second se	12       2       6       RED       ORG       GRN       Image: constraint of the second secon

EQUIPMENT GROUNDING				
FROM	ТО			
CB1	SB1			
SB1	SB2			
SB2	SB3			
SB3	SB4			
SB4	SB5			
SB5	SB6			
SB6	SB7			
SB7	SB8			
SB8	SB9			
SB9	SB10			
SB10	CB1			



LIGHTING	GUF 2-12
FROM	то
CB1	SB2
CB1	SB5
CB1	SB7
CB1	SB9

EVP	EVP CABLE				
FROM	то				
CB1	SB10 (HEAD A)				
CB1	SB5 (HEAD B)				
CB1	SB7 (HEAD C)				
CB1	SB2 (HEAD D)				

PED BUTTON (LOOP LEAD-IN CABLE)				
FROM	ТО			
CB1	SB3			
CB1	SB10			

\*USE THE WHITE CONDUCTOR IN THE CABLE ASSEMBLY AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS \*ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 12" LONGER THAN THE UNGROUNDED CONDUCTORS. \*AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRAIN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART. CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.

"OTHER" COLUMN MAY INCLUDE SHADOW BOX SIGN

\*ALL CABLES SHALL BE LABELED WITH SIGNAL BASE NUMBER AT BOTH ENDS OF CABLE.

PROJECT NO: 3700-50-61	HWY: STH 13	COUNTY: TAYLOR	CABLE ROUTING	
FILE NAME : X:\UZ\W\WITNW\160526\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL	3D\37005061\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\024003_SP (TRF S	IG SHT PROPOSED).DWG PLOT DATE : 7/28/2022 5:03 PM	PLOT BY : SEH	LAYOUT NAME : 02CR

2

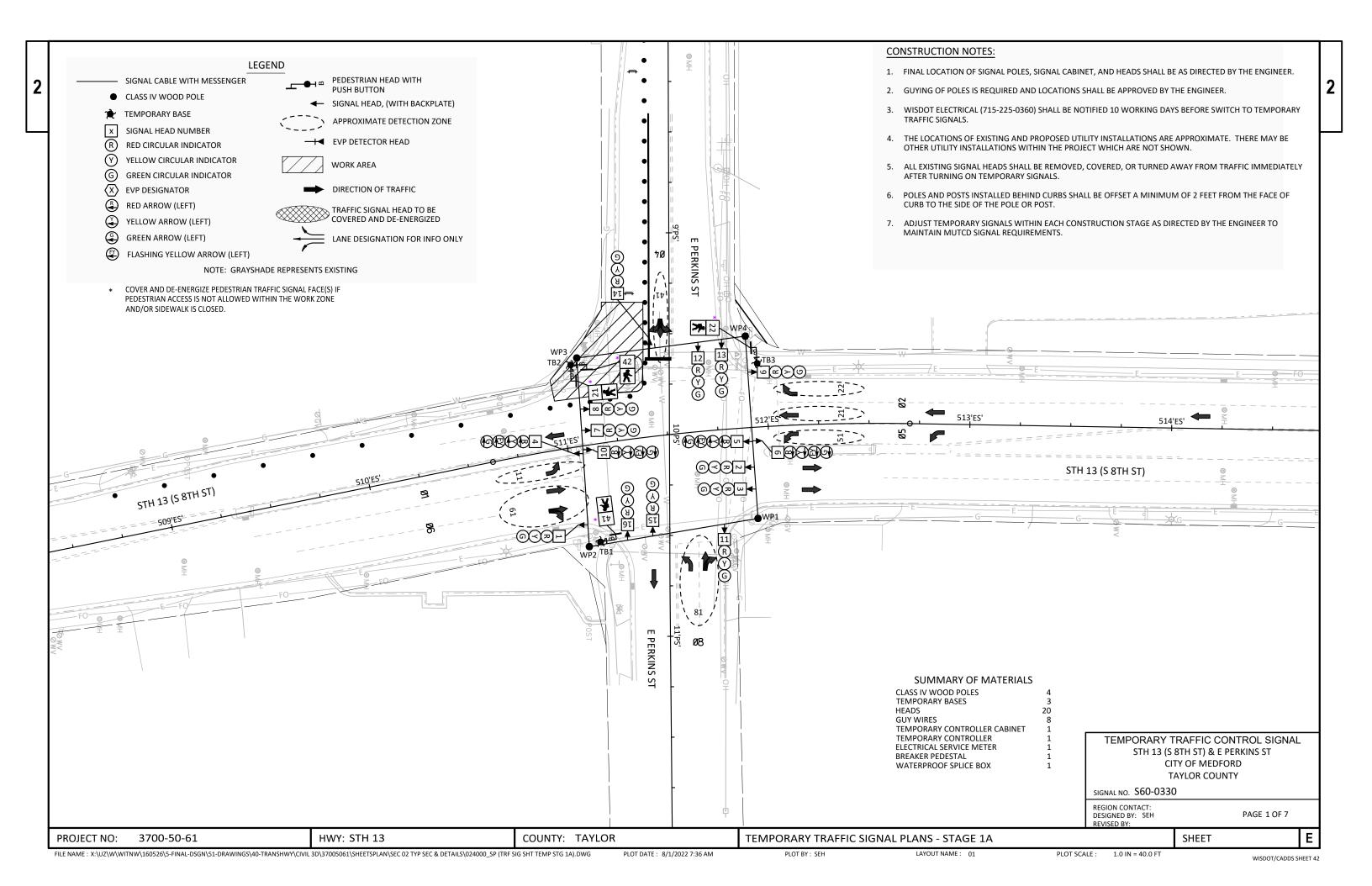
# TRAFFIC CONTROL SIGNAL STH 13 (S 8TH ST) & E CLARK ST/MEDFORD PLAZA CE CITY OF MEDFORD TAYLOR COUNTY

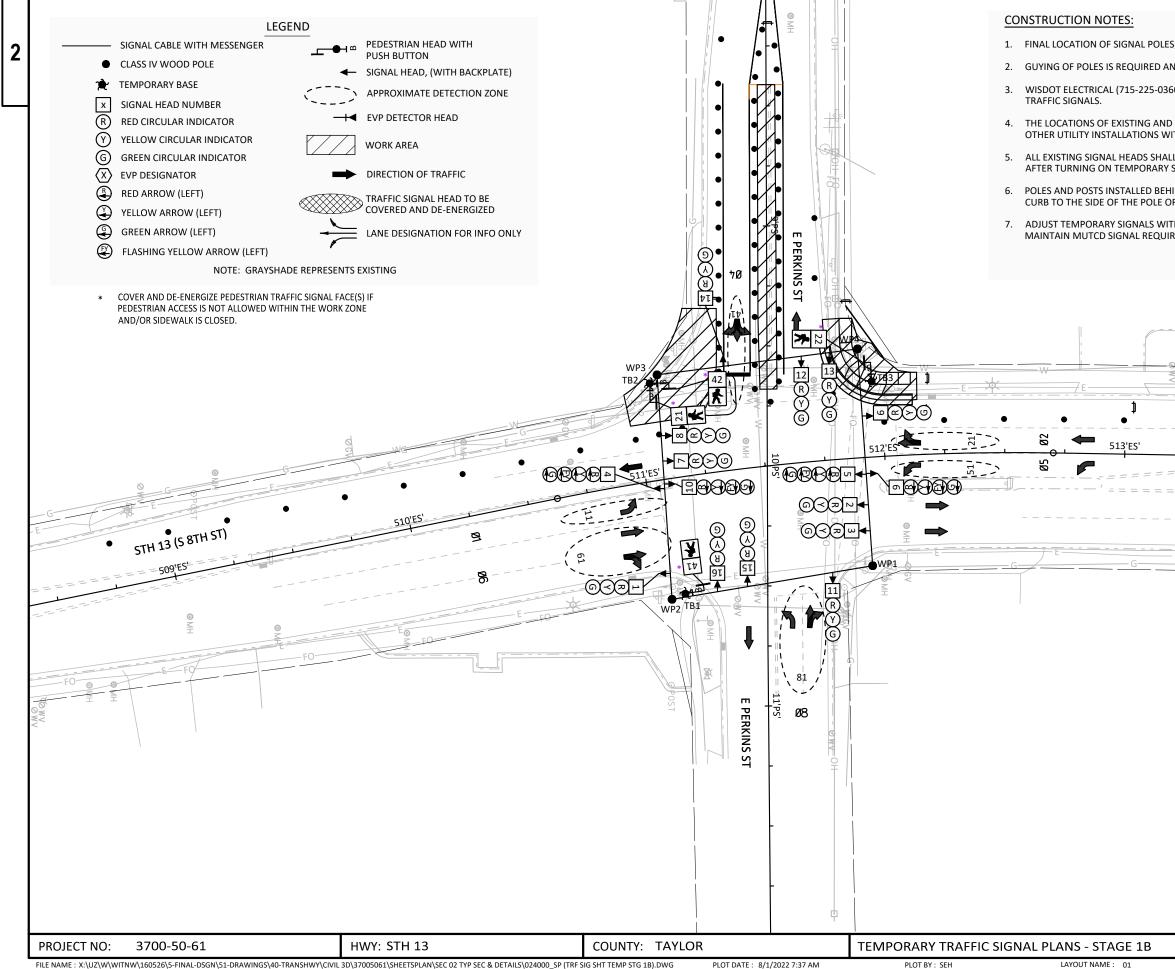
## SIGNAL NO. S60-0463

REGION CONTACT: STEVEN BACHMAN DESIGNED BY: REVISED BY:

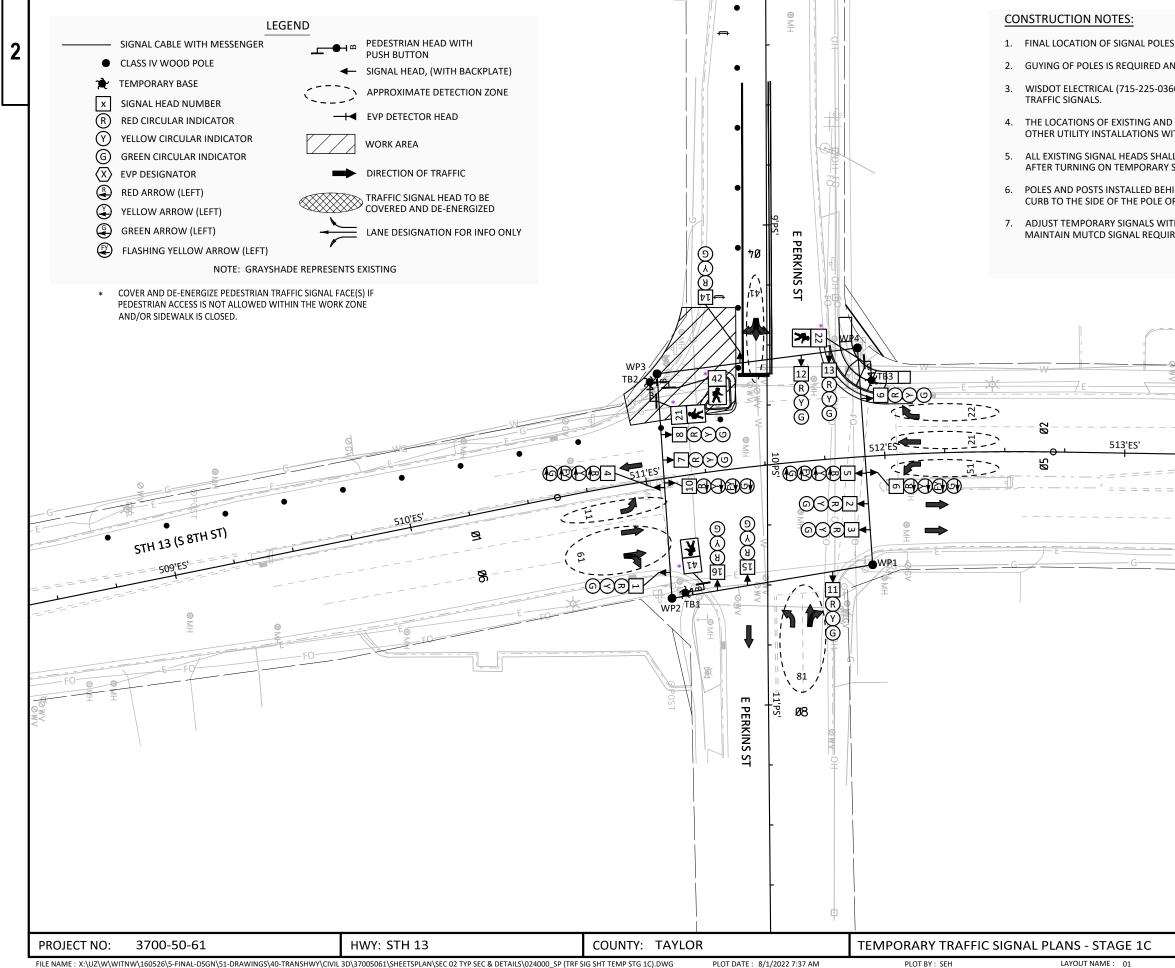
# PAGE 3 OF 3

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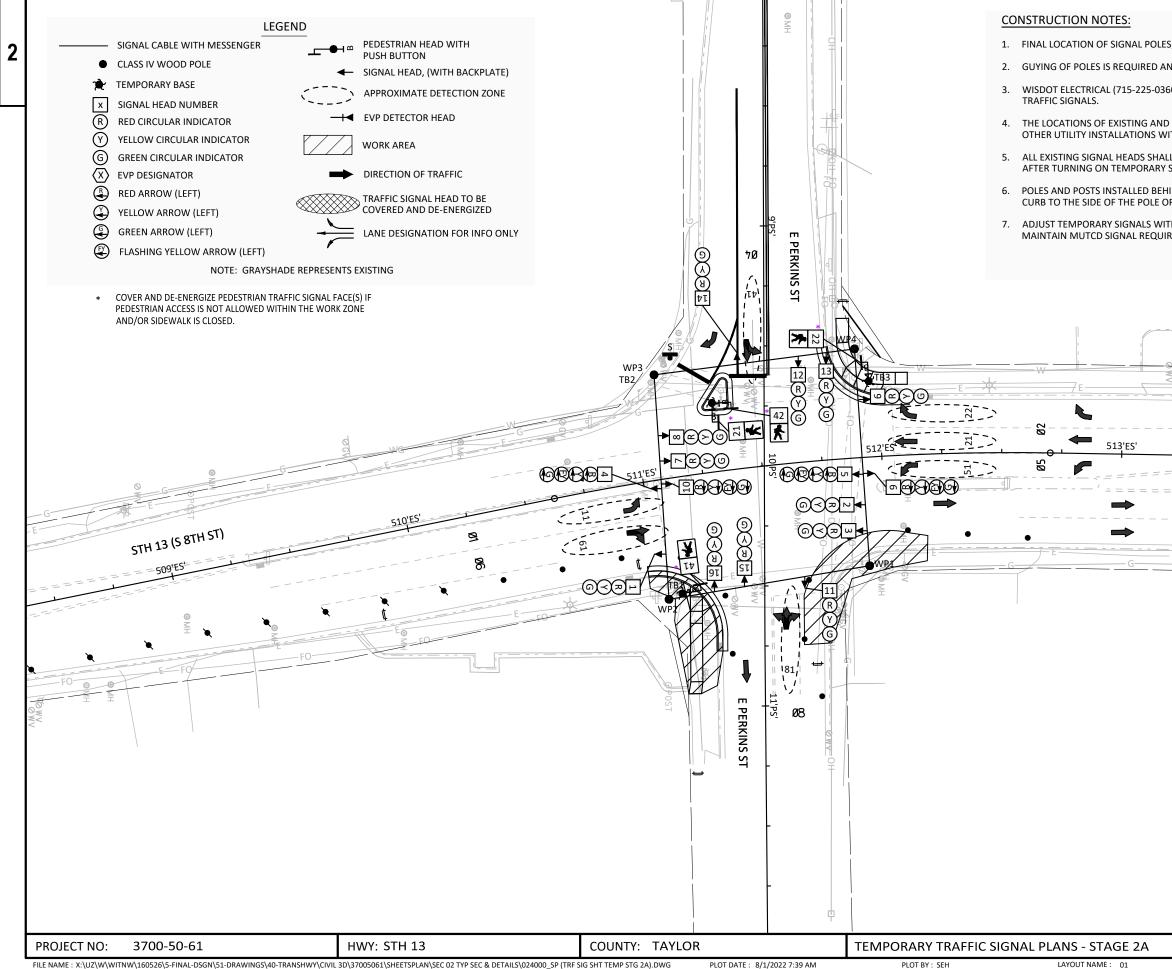




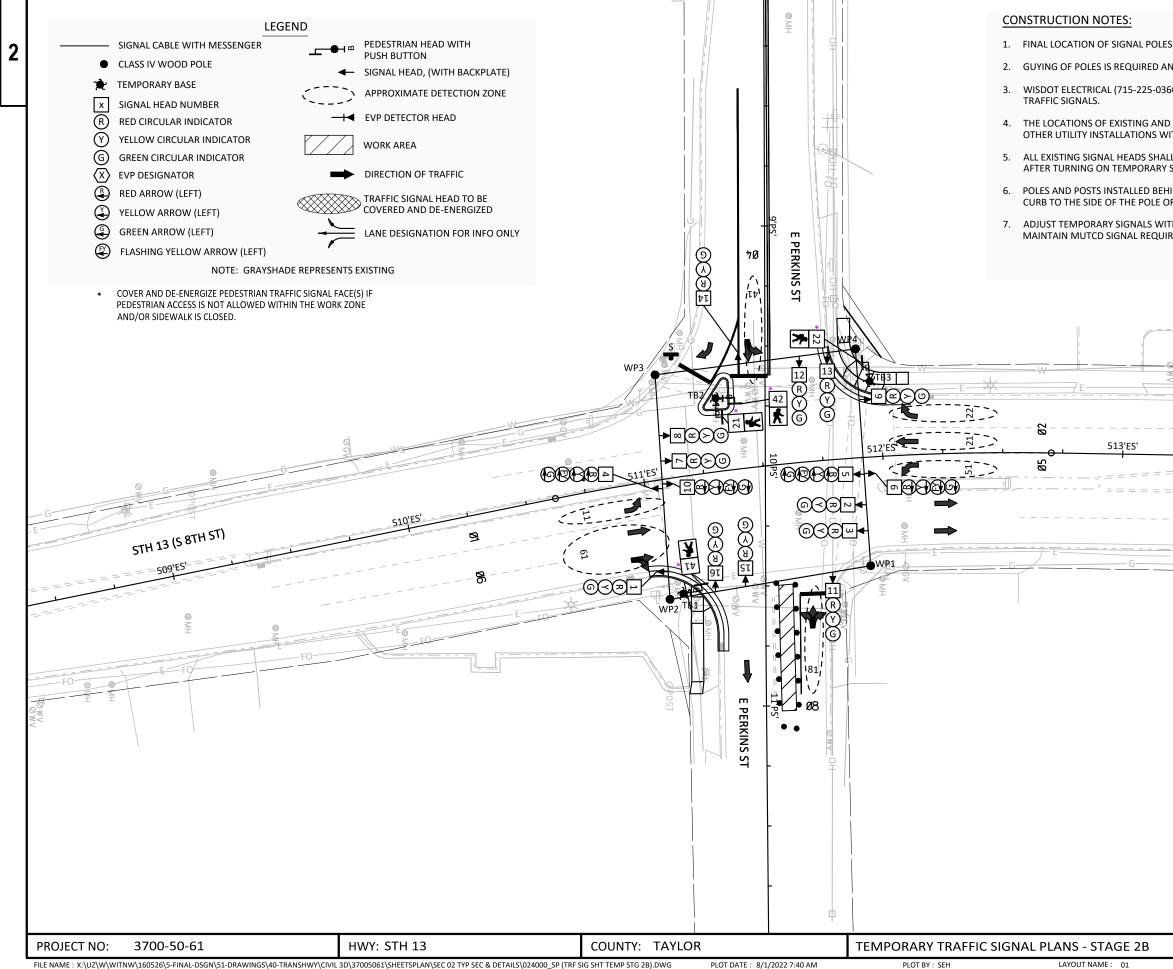
S, SIGNAL CABINET, AI	ND HEADS SHALL BE AS [	DIRECTED BY THE EN	NGINEER.	2
ND LOCATIONS SHALL	BE APPROVED BY THE E	NGINEER.		2
JUJ STIALL BE NUTIFIEL	D 10 WORKING DAYS BEF	UNE SWITCH TO TE	LIVIFURAKY	
	NSTALLATIONS ARE APPF /HICH ARE NOT SHOWN.		MAY BE	
L BE REMOVED, COVE SIGNALS.	ERED, OR TURNED AWAY	' FROM TRAFFIC IM	MEDIATELY	
IND CURBS SHALL BE R POST.	OFFSET A MINIMUM OF	2 FEET FROM THE I	FACE OF	
	CTION STAGE AS DIRECTE	D BY THE ENGINEE	R TO	
REMENTS.				1
2				
<u> </u>				
	E	E -	<u> </u>	
	<u> </u>	N. N		-
<b>~ ~</b>				
	. 514'	ES' <sup>©</sup> ≦		
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= = = = = = = = = = = = = = = = = =	= = = = = = = = = = = = = = = = = = =			1
SIH	13 (S 8TH ST)	<u>&lt;</u>		_
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E	E	E		Ē
		<u>(G</u>	G	
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				1
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				1
				1
]	TEMPORARY T	RAFFIC CONTI	ROL SIGNAL	1
	STH 13 (S	8TH ST) & E PERK		1
	CI	TY OF MEDFORD		
		AYLOR COUNTY		1
ļ	SIGNAL NO. S60-0330	J		-
	REGION CONTACT: DESIGNED BY: SEH	I	PAGE 2 OF 7	
	REVISED BY:	CU		-
		SHEET	E	J
PLOT SCA	LE : 1.0 IN = 40.0 FT		. —	



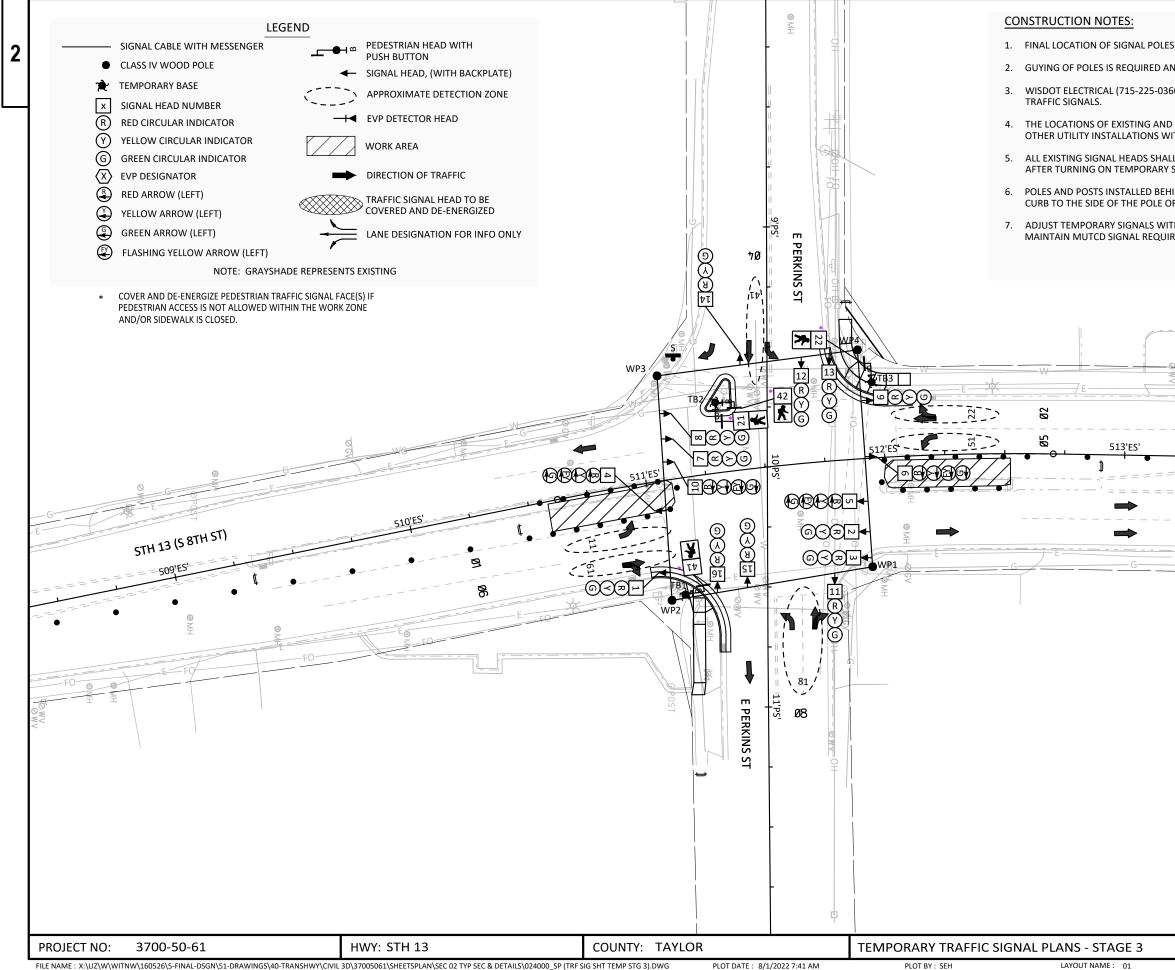
S, SIGNAL CABINET, A	ND HEADS SHALL BE AS	DIRECTED BY THE ENGINE	ER.	2
ND LOCATIONS SHALI	L BE APPROVED BY THE I	ENGINEER.		~
50) SHALL BE NOTIFIE	D 10 WORKING DAYS BE	FORE SWITCH TO TEMPOR	ARY	
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		TRAFFIC CONTROL S 8TH ST) & E PERKINS S		
		TY OF MEDFORD AYLOR COUNTY		
	SIGNAL NO. S60-033			
	REGION CONTACT: DESIGNED BY: SEH	PAGE	3 OF 7	
	REVISED BY:	i		
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S, SIGNAL CABINET, A	ND HEADS SHALL BE AS I	DIRECTED BY THE E	NGINEER.	2
ND LOCATIONS SHALL	BE APPROVED BY THE E	NGINEER.		
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		8TH ST) & E PERI TY OF MEDFORD		
		AYLOR COUNTY		
	SIGNAL NO. 560-0330	)		4
	REGION CONTACT: DESIGNED BY: SEH		PAGE 4 OF 7	
	REVISED BY:	SHEET	E	1
PLOT SCA	LE : 1.0 IN = 40.0 FT	····		7



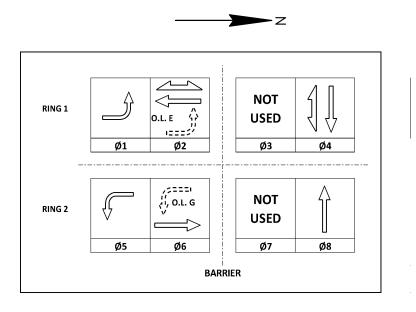
S, SIGNAL CABINET, A	ND HEADS SHALL BE AS I	DIRECTED BY THE	ENGINEER.	2
ND LOCATIONS SHALL	BE APPROVED BY THE E	NGINEER.		
50) SHALL BE NOTIFIE	D 10 WORKING DAYS BEI	ORE SWITCH TO	TEMPORARY	
PROPOSED UTILITY I	NSTALLATIONS ARE APPI /HICH ARE NOT SHOWN.	ROXIMATE. THER	E MAY BE	
L BE REMOVED, COVI SIGNALS.	ERED, OR TURNED AWAY	FROM TRAFFIC II	MMEDIATELY	
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	SIGNAL NO. S60-0330 REGION CONTACT:	J		-
	DESIGNED BY: SEH REVISED BY:		PAGE 5 OF 7	
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PLOT SCA	LE : 1.0 IN = 40.0 FT			



S, SIGNAL CABINET, A	ND HEADS SHALL BE AS I	DIRECTED BY THE ENGIN	EER.	2
ND LOCATIONS SHALL	BE APPROVED BY THE E	NGINEER.		-
50) SHALL BE NOTIFIE	D 10 WORKING DAYS BEF	FORE SWITCH TO TEMPO	DRARY	
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7	×			
			SIGNAL	
		RAFFIC CONTROL 8TH ST) & E PERKINS		
		TY OF MEDFORD		
	I , SIGNAL NO. 560-0330	AYLOR COUNTY )		
	REGION CONTACT:			
	DESIGNED BY: SEH REVISED BY:	PAGI	6 OF 7	l
		SHEET	E	
PLOT SCA	LE : 1.0 IN = 40.0 FT			_

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	HEAD	Α
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	NUMBERS	н
Ø1	4,5	R
Ø2	6,7,8	R
Ø4	14,15,16	R
Ø5	9,10	R
Ø6	1,2,3	R
Ø8	11,12,13	R
Ø2P	21,22	
Ø4P	41,42	
OLE	4,5	-
OLG	9,10	-



# CONTROLLER LOGIC

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

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO	PHASES IN CONFLICT WITH
	TIME CONCURRENTLY	PHASE ON
1	5 OR 6	2,4,8
2	5 OR 6	1,4,8
3		
4	8	1,2,5,6
5	1 OR 2	4,6,8
6	1 OR 2	4,5,8
7		
8	4	1,2,5,6

# **GENERAL NOTES:**

- 1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
- MAY START TIMING CONCURRENTLY. SEE CHART 1.

2 WHEN ONE PHASE IS ON ALONE, ANY NON-CONFLICTING PHASE

# DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13	19	17	23	21	27	25	31	29	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	11	41	61	81													PLAN LOOP DETECTOR*(S
CALLED PHASE	1	4	6	8													CALLED PHASE
CALL OPTION	х	Х	X	х													CALL OPTION
DELAY TIME																	DELAY TIME
EXTENTION OPTION	Х	Х	X	X													EXTENTION OPTION
EXTEND TIME																	EXTEND TIME
	х	X	X	X													USE ADDED INITIAL
																	CROSS SWITCH PHASE
Г					T												_
	4	2	8	6	12	10	16	14	20	18	24	22	28	26	32	30	DETECTOR INPUT
PLAN LOOP DETECTOR*(S)	21	51	62														PLAN LOOP DETECTOR*(S
CALLED PHASE	2	5	6														CALLED PHASE
	х	X	X														CALL OPTION
DELAY TIME			X														DELAY TIME
EXTENTION OPTION	х	Х	X														EXTENTION OPTION
EXTEND TIME																	EXTEND TIME
	Х	X	X														
CROSS SWITCH PHASE																	CROSS SWITCH PHASE

FILE NAME : X:\UZ\W\WITNW\160526\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\37005061\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\024002\_SP (TRF SIG SHT SOO).DWG PLOT DATE: 8/1/2022 7:45 AM

PLOT BY : SEH

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

TYPE OF COORDINATION					
NONE	X				
твс					
TRAFFIC RESPONSIVE					
ADAPTIVE					
*LOCATION OF MASTER					
CONTROLLER NO: S-					
SIGNAL SYSTEM NO: SS-					

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

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

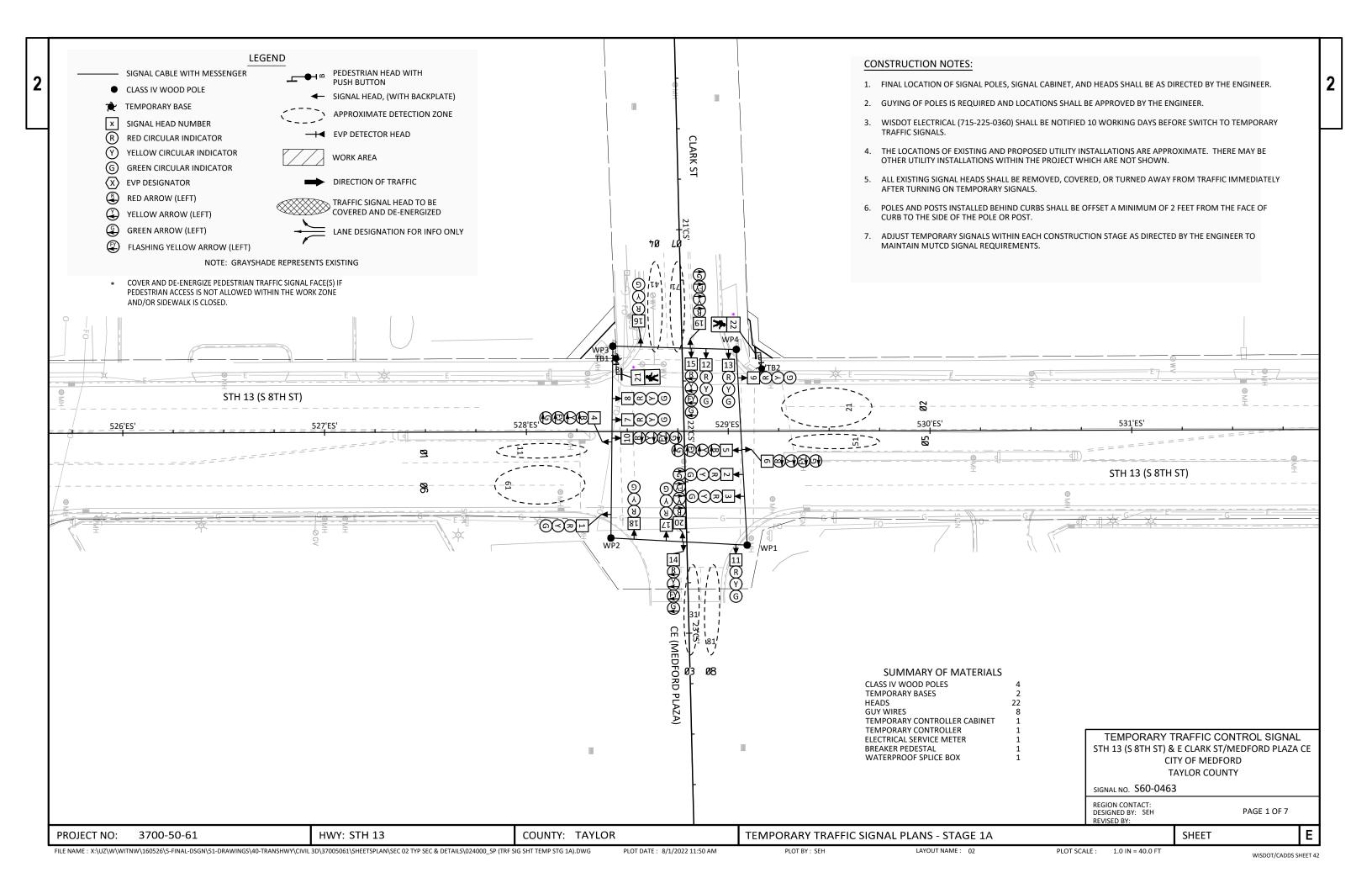
#### EMERGENCY VEHICLE PREEMPTION SEQUENCE

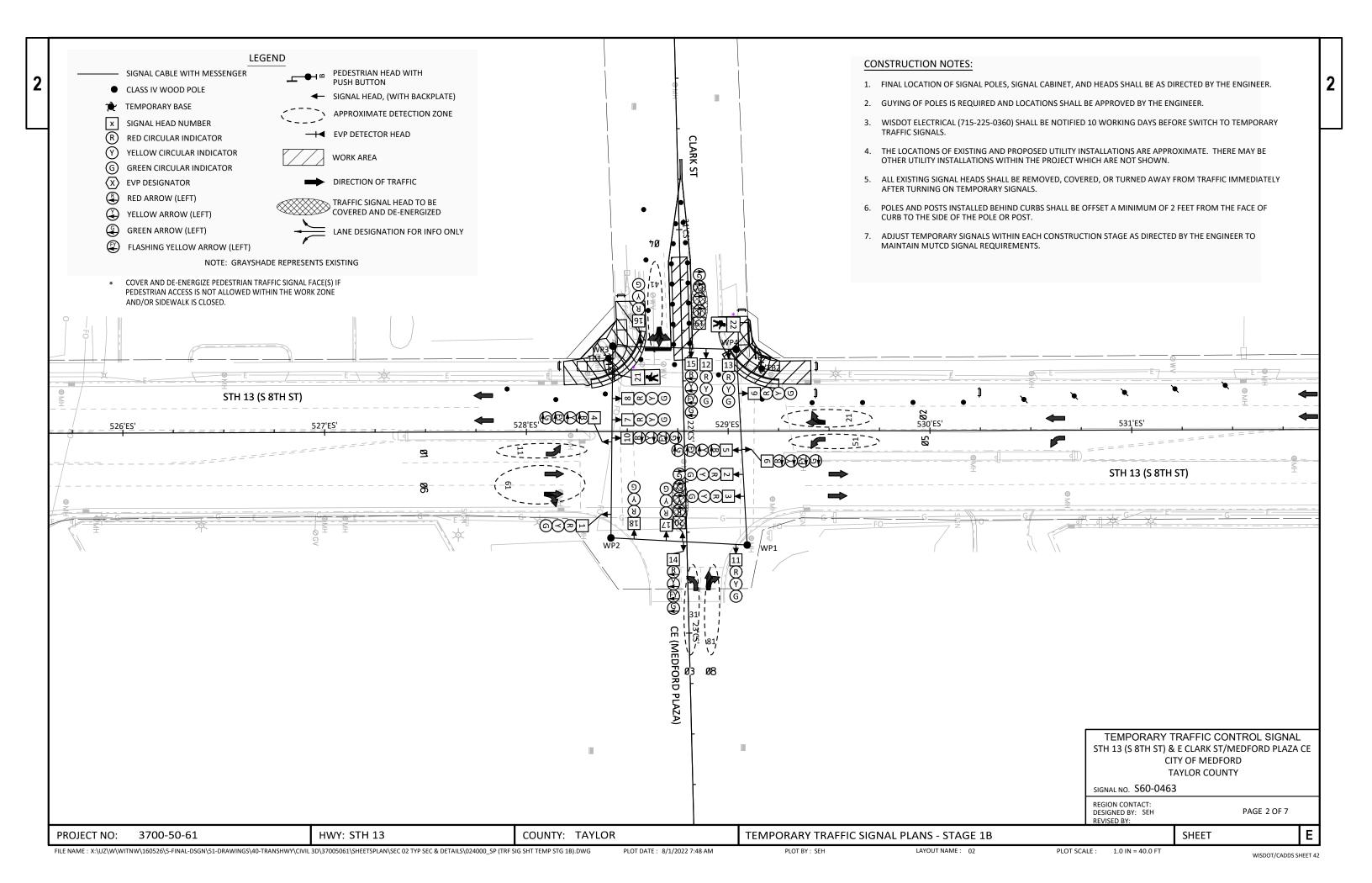
EMERGENCY VEHICLE PREEMPTOR	Α	В	С	D
PREEMPTION CHANNEL	3	4	5	6
MOVEMENT	× 3	¥	↓↑	↓↑
DIRECTION	SB	NB	EB	WB
PHASE	2+5	6+1	4+8	8+4

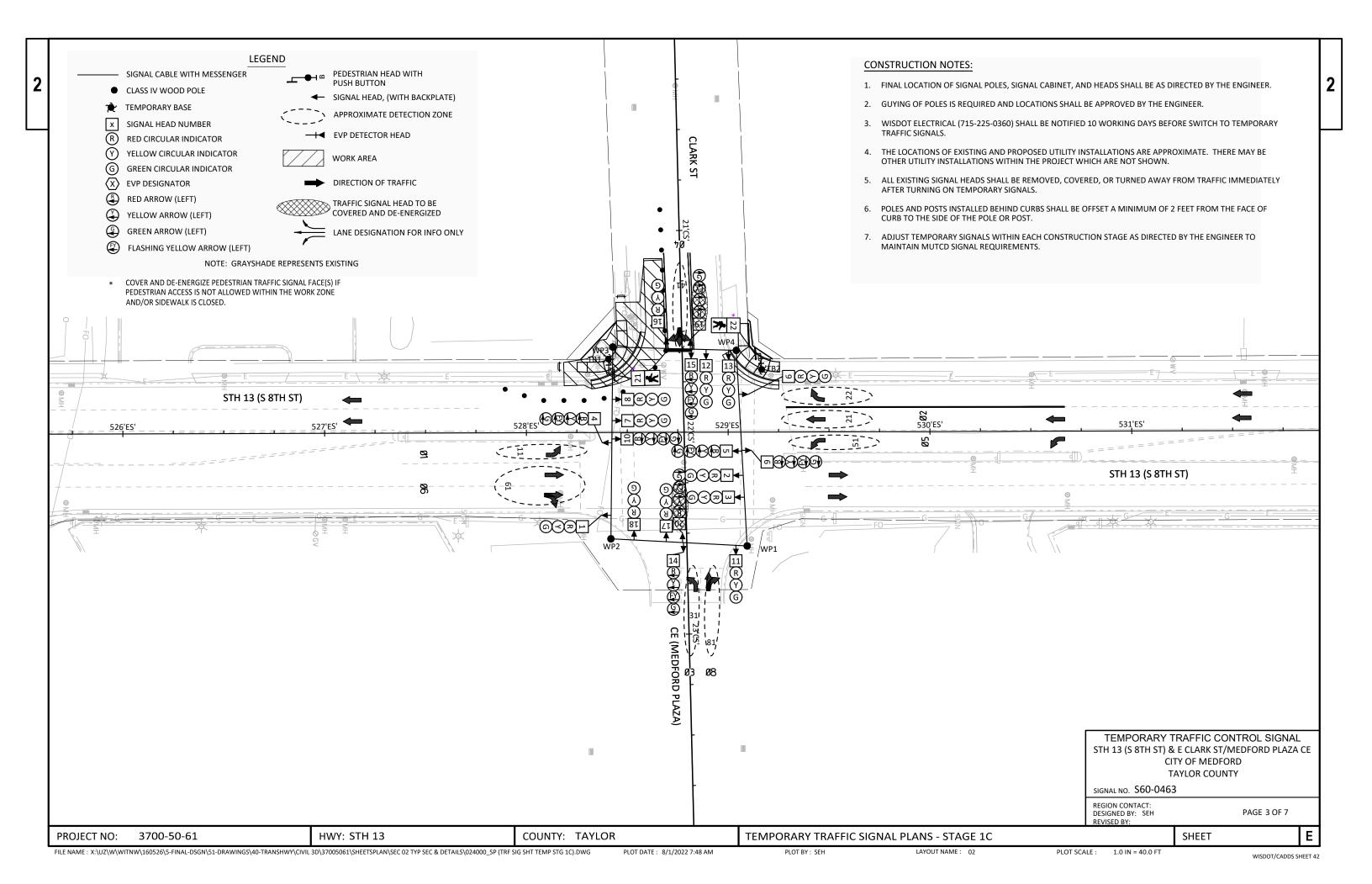
NOTES: FULL CLEARANCE AND MINIMUM GREEN INTERVALS SHALL ALWAYS BE PROVIDED.

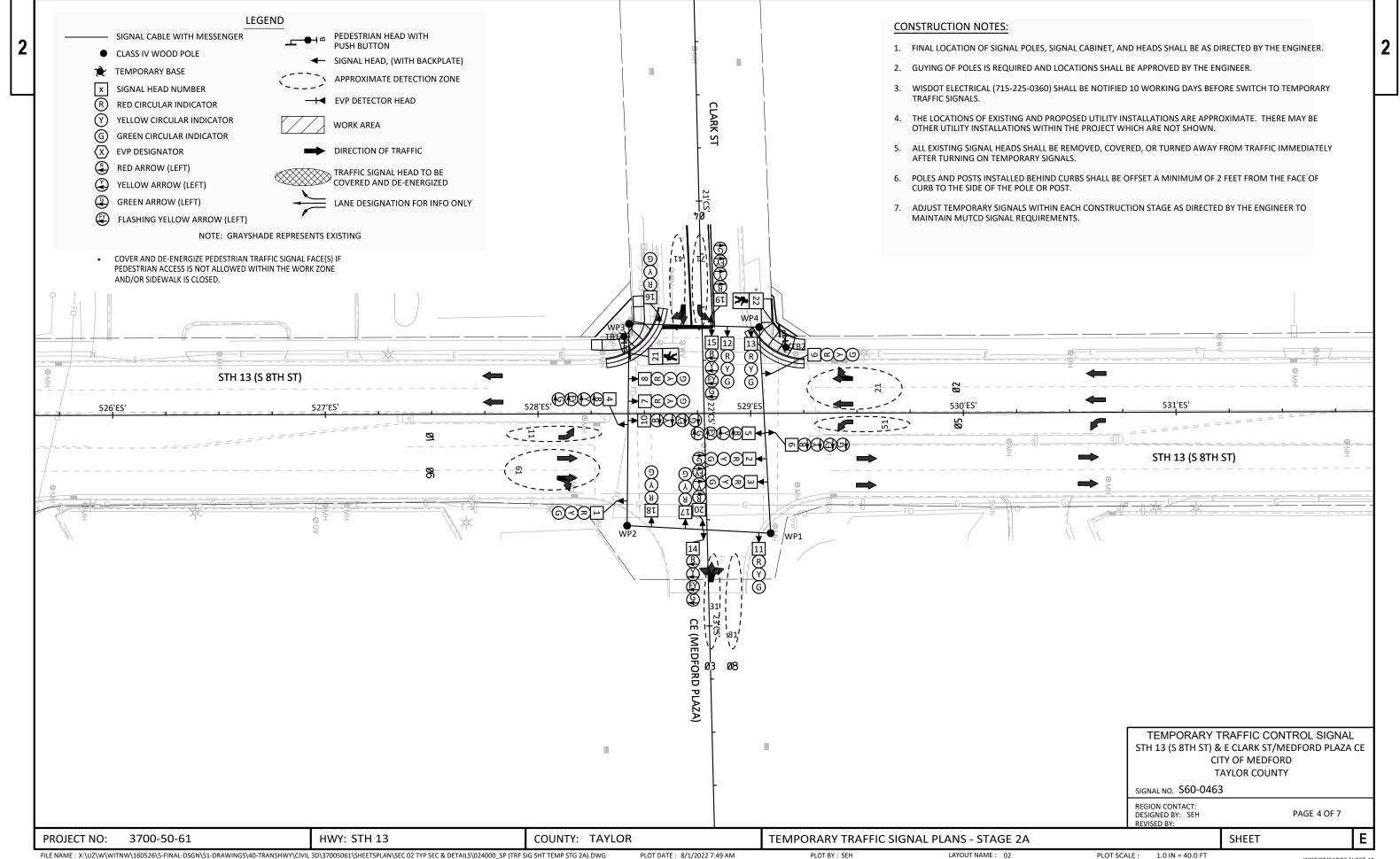
ST	STH 13 (S. 8TH STREET) & E. PERKINS STREET						
	C	TY OF MEDFORD					
	TAYLOR COUNTY						
SIGNAL NO:	S60-0330	CABINET TYPE: TEMP					
CONTROLLER TYPE: TEMP							
DATE: 06/2	022	PAGE NO. 7 OF 7					
		SHEET	Ε				

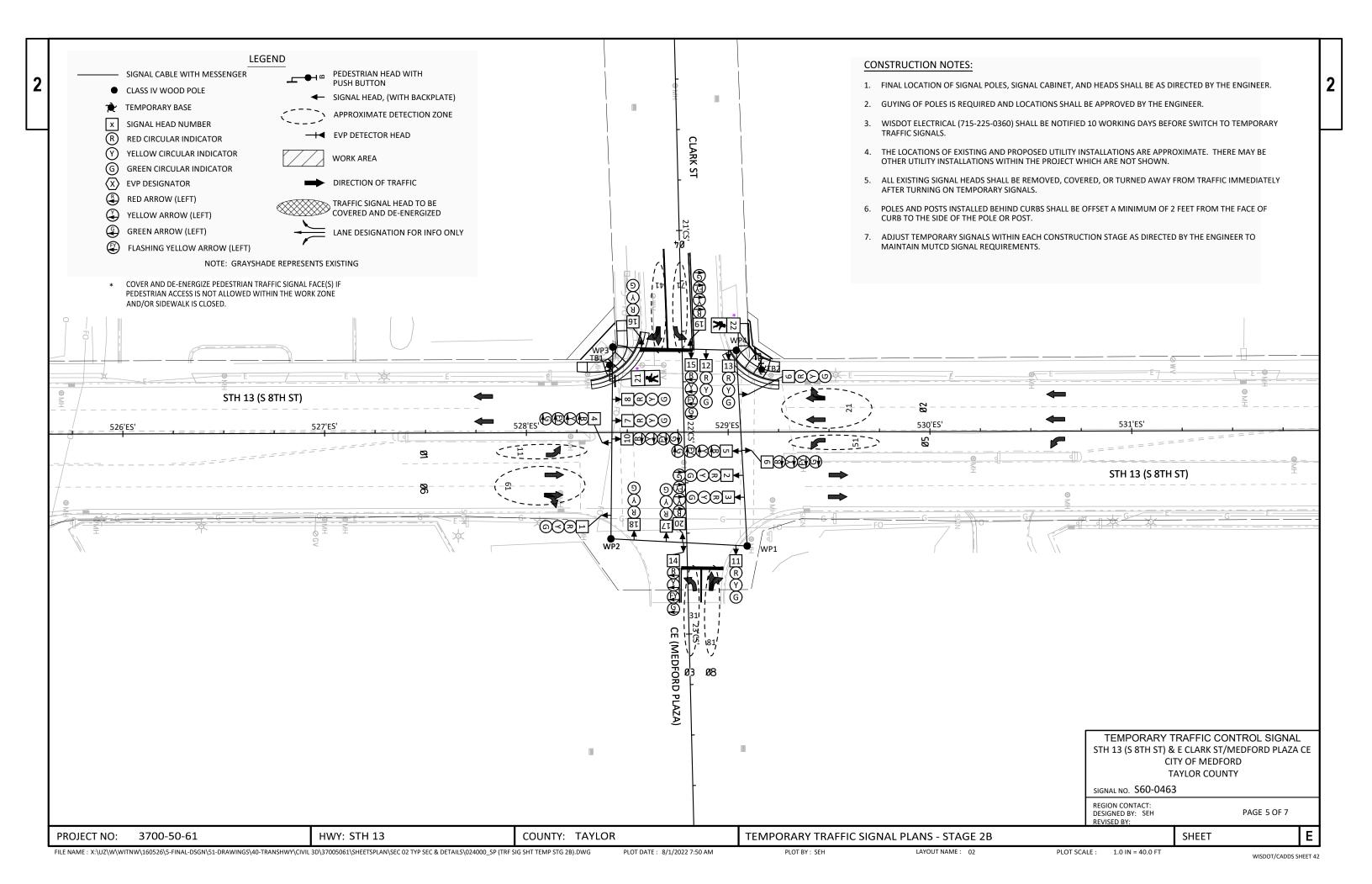
WISDOT/CADDS SHEET 42

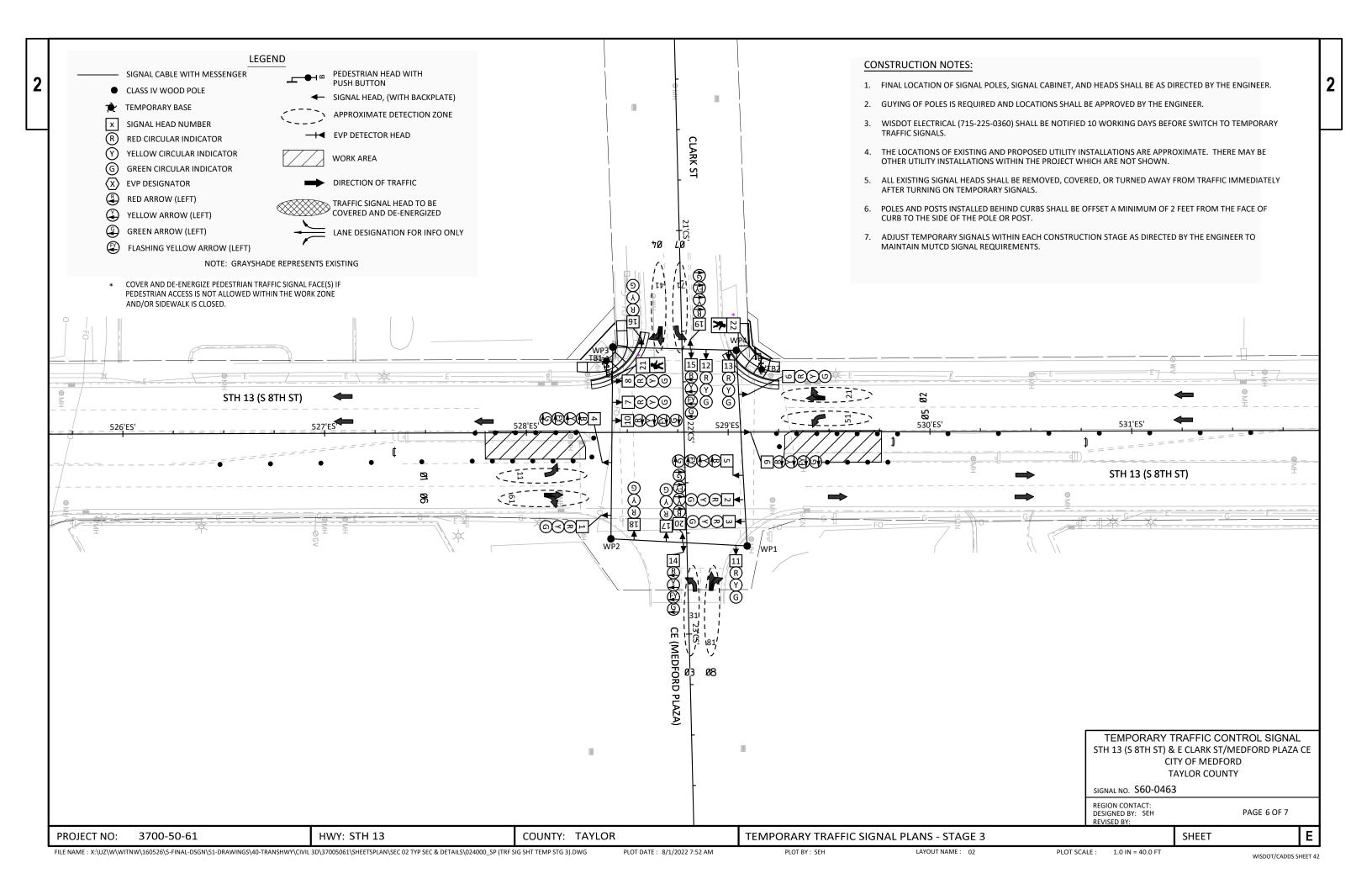




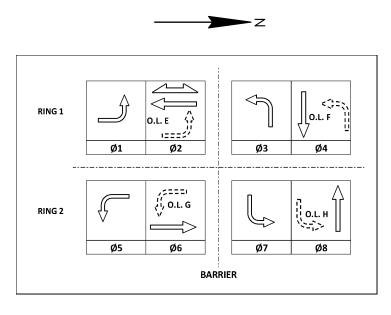








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6,7,8	R
14,15	R↓
16.17.18	R
9,10	R↓
1,2,3	R
19,20	R
11,12,13	R
21,22	
4,5	-
14,15	-
9,10	-
19,20	-
	6,7,8 14,15 16.17.18 9,10 1,2,3 19,20 11,12,13 21,22 4,5 14,15 9,10



# **GENERAL NOTES:**

- 1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
- 2 WHEN ONE PHASE IS ON ALONE, ANY NON-CONFLICTING PHASE MAY START TIMING CONCURRENTLY. SEE CHART 1.

# CONTROLLER LOGIC

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

CHART 1

	NONCONFLICTING	PHASES IN
PHASE ON	PHASE ALLOWED TO	CONFLICT WITH
	TIME CONCURRENTLY	PHASE ON
1	5 OR 6	2,3,4,7,8
2	5 OR 6	1,3,4,7,8
3	7 OR 8	1,2,4,5,6
4	7 OR 8	1,2,3,5,6
5	1 OR 2	3,4,6,7,8
6	1 OR 2	3,4,5,7,8
7	3 OR 4	1,2,5,6,8
8	3 OR 4	1,2,5,6,7

# DETECTOR LOGIC

EXTEN USE A	DETECTOR*(S) 11 CALLED PHASE 1 CALL OPTION X DELAY TIME ITION OPTION X EXTEND TIME ADDED INITIAL X	2 X X X X	41 4 X X	61 6 X X	81 8 X X													PLAN LOOP DETECTOR*(S CALLED PHASE CALL OPTION
EXTEN USE A	CALL OPTION X DELAY TIME ITION OPTION X EXTEND TIME	X X X	X	X	X				-									CALL OPTION
USE /	DELAY TIME	X X							_									-
USE /	ITION OPTION X	X	x	x	x													
USE /	EXTEND TIME		X	X	X		1 1											DELAY TIME
USE /					+													EXTENTION OPTION
	ADDED INITIAL X			<u> </u>	ļ'													EXTEND TIME
CROSS S		X	X	X	X													USE ADDED INITIAL
																		CROSS SWITCH PHASE
			1			1											1	-
	TECTOR INPUT 4	2	8	6	12	10	16	14	-	20	18	24	22	28	26	32	30	DETECTOR INPUT
	DETECTOR*(S) 21		51	71					-									PLAN LOOP DETECTOR*(
	CALLED PHASE 2	3	5	7					-									CALLED PHASE
	CALL OPTION X	<u> </u>	X	X					-									
									-									
EXTER	ITION OPTION X	X	X	X					-									EXTENTION OPTION
				<u> </u>					-									EXTEND TIME
		<u> </u>	X	X	'				-									
CROSS				L	!													CROSS SWITCH PHASE

2

FILE NAME : X:\UZ\W\WITNW\160526\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\37005061\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\024002\_SP (TRF SIG SHT SOO).DWG

PLOT DATE: 8/1/2022 7:55 AM

PLOT BY : SEH

TYPE OF INTERCONNECT/COMMUNICATION				
NONE				
CLOSED LOOP				
TWISTED PAIR				
FIBER OPTIC*	X			
FIBER OPTIC (ETHERNET)				
RADIO				
CELL MODEM				

TYPE OF COORDINATION	
NONE	Х
твс	
TRAFFIC RESPONSIVE	
ADAPTIVE	
*LOCATION OF MASTER	
CONTROLLER NO: S-	
SIGNAL SYSTEM NO: SS-	

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

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

EMERGENC	EMERGENCY VEHICLE PREEMPTION SEQUENCE								
EMERGENCY VEHICLE PREEMPTOR	Α	В	с	D					
PREEMPTION CHANNEL	3	4	5	6					
MOVEMENT		¥"		۱1					
DIRECTION	SB	NB	EB	WB					
PHASE	2+5	6+1	4+7	8+3					

NOTES: FULL CLEARANCE AND MINIMUM GREEN INTERVALS SHALL ALWAYS BE PROVIDED.

5	STH 13 (S. 8TH STREET) & E. CLARK STREET				
CITY OF MEDFORD					
TAYLOR COUNTY					
SIGNAL NO: S60-0463 CABINET TYPE: TEMP					
		CONTROLLER TYPE: TEMP			
DATE: 06/20	022	PAGE NO. 7 OF 7	-		
		SHEET	Ε		

	STH 13 & Perkins Street									
PHASE	Ф1	Ф2	Ф3	Ф4	Ф5	Ф6	Φ7	Ф8		
DIRECTION	NBL	SBT	WBL	EBT	SBL	NBT	EBL	WBT		
MIN GREEN	7.0	15.0	-	10.0	7.0	15.0	-	10.0		
WALK	-	7.0	-	7.0	-	-	-	-		
PED CLEAR	-	26.0	-	26.0	-	-	-	-		
VEHICLE EXT	2.0	5.0	-	2.0	2.0	5.0	-	2.0		
MAX1	25.0	45.0	-	30.0	25.0	45.0	-	30.0		
MAX2	25.0	45.0	-	30.0	25.0	45.0	-	30.0		
YELLOW	3.2	3.2	-	2.8	3.2	3.2	-	2.8		
RED CLEAR	2.6	2.6	-	3.2	2.6	2.6	-	3.2		
MIN GAP	2.0	3.0	-	2.0	2.0	3.0	-	2.0		

STH 13 & Clark Street										
PHASE	Ф1	Ф2	Ф3	Ф4	Ф5	Ф6	Φ7	Ф8		
DIRECTION	NBL	SBT	WBL	EBT	SBL	NBT	EBL	WBT		
MIN GREEN	7.0	15.0	7.0	10.0	7.0	15.0	7.0	10.0		
WALK	-	7.0	-	-	-	-	-	-		
PED CLEAR	-	18.0	-	-	-	-	-	-		
VEHICLE EXT	2.0	5.0	2.0	2.0	2.0	5.0	2.0	2.0		
MAX1	25.0	45.0	25.0	30.0	25.0	45.0	25.0	30.0		
MAX2	25.0	45.0	25.0	30.0	25.0	45.0	25.0	30.0		
YELLOW	3.2	3.2	2.8	2.8	3.2	3.2	2.8	2.8		
RED CLEAR	2.6	2.6	3.0	3.4	2.6	2.6	3.0	3.4		
MIN GAP	2.0	3.0	2.0	2.0	2.0	3.0	2.0	2.0		

PROJECT NO:	3700-50-61	HWY: STH 13	COUNTY: TAYLOR		TEMPORARY TRAFFIC SIGNAL	TIMINGS	
FILE NAME : X:\UZ\W\WITNW\160526\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\37005061\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\024002_SP (TRF SIG SHT SOO).DWG				PLOT DATE: 7/31/2022 9:52 PM	PLOT BY : SEH	LAYOUT NAME : TE	MP SIGNAL TI

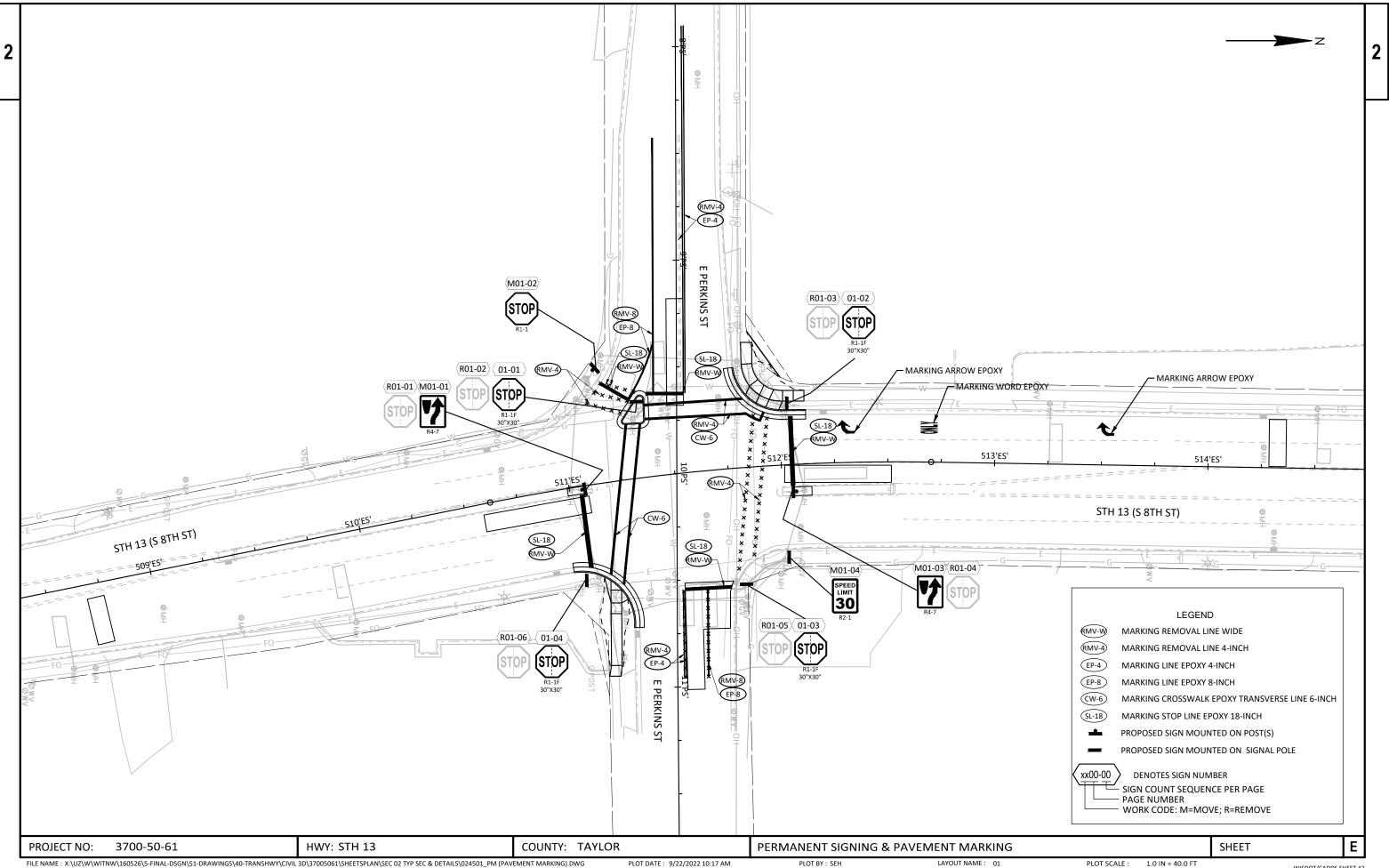
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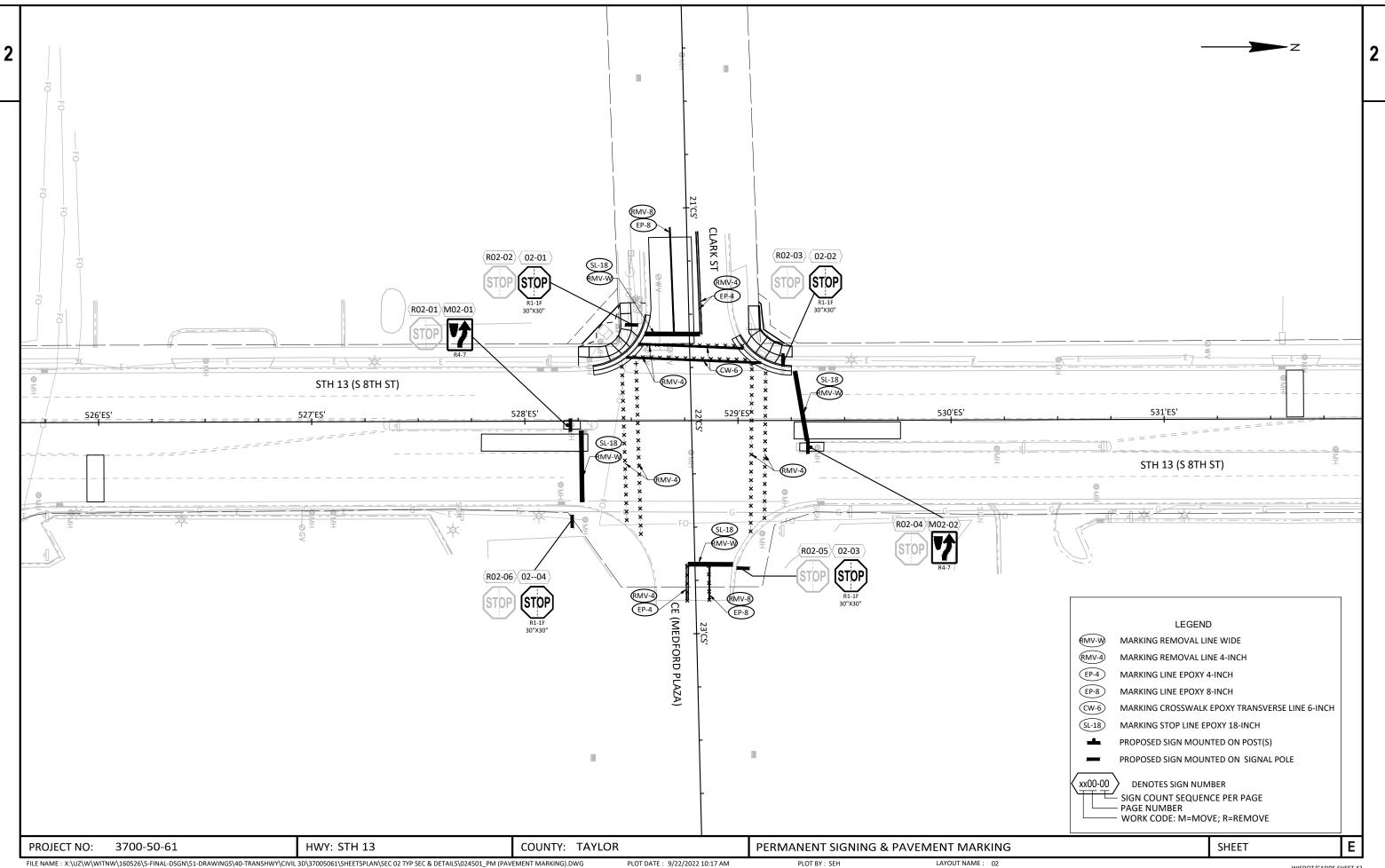
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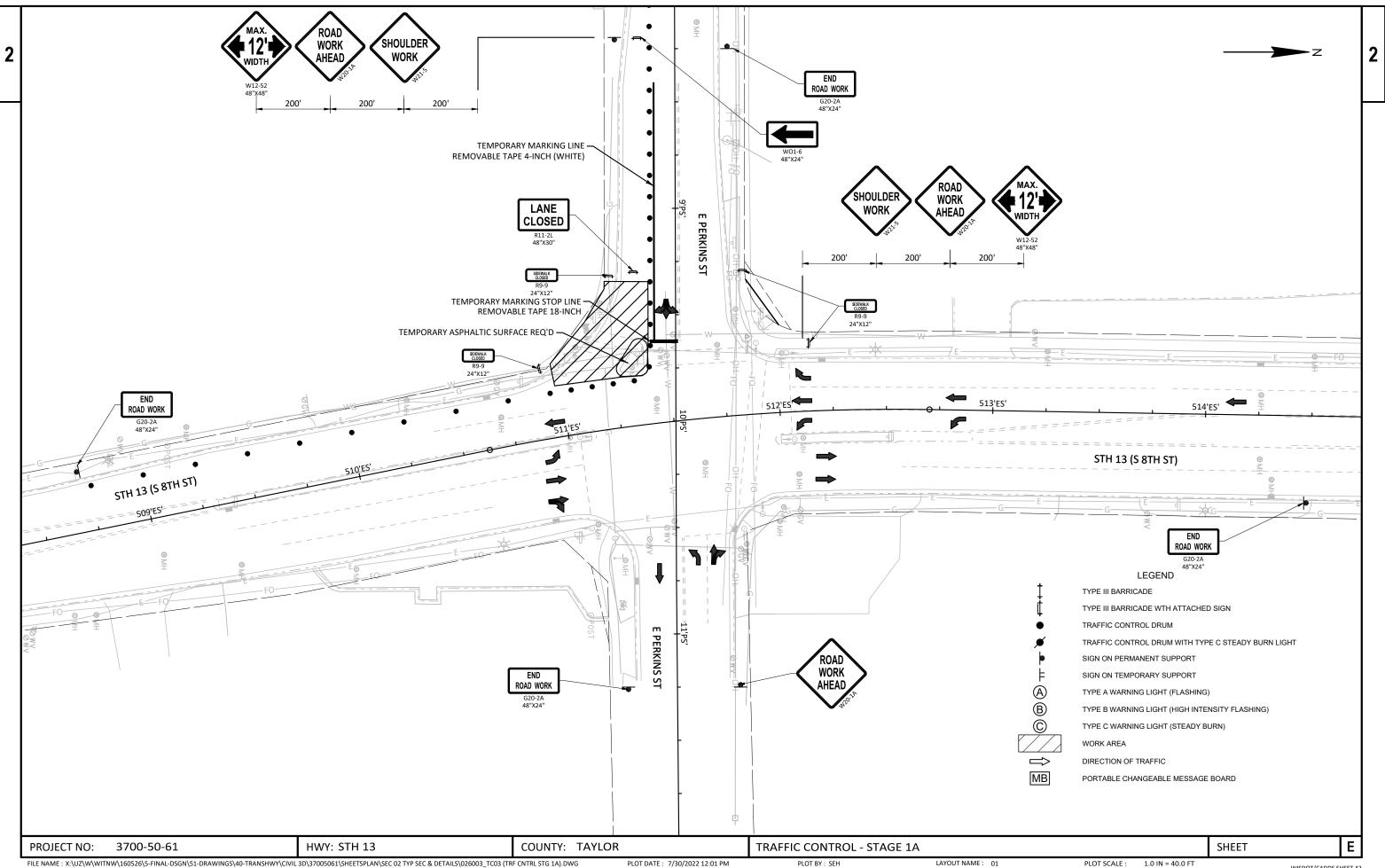
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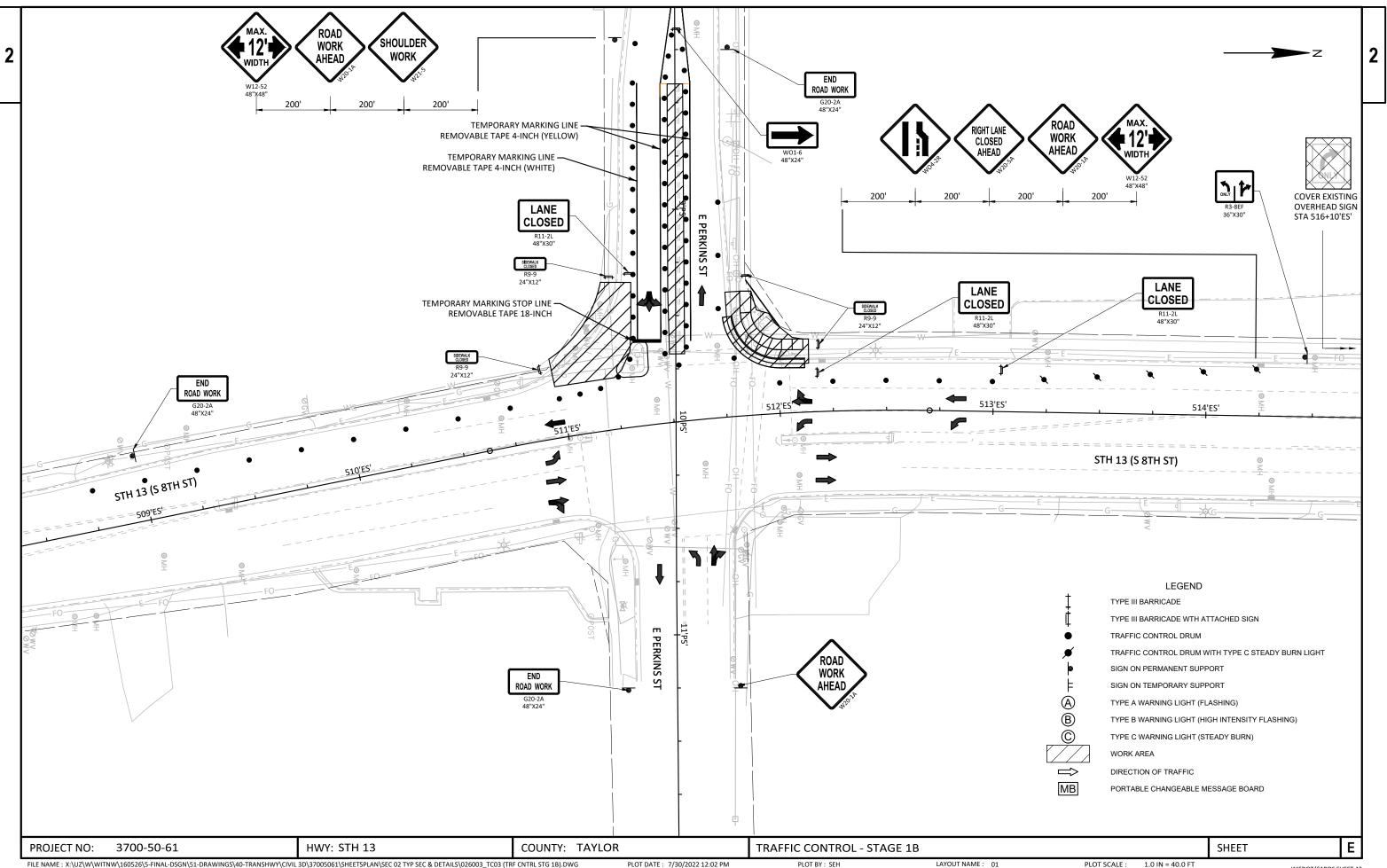
WISDOT/CADDS SHEET 42

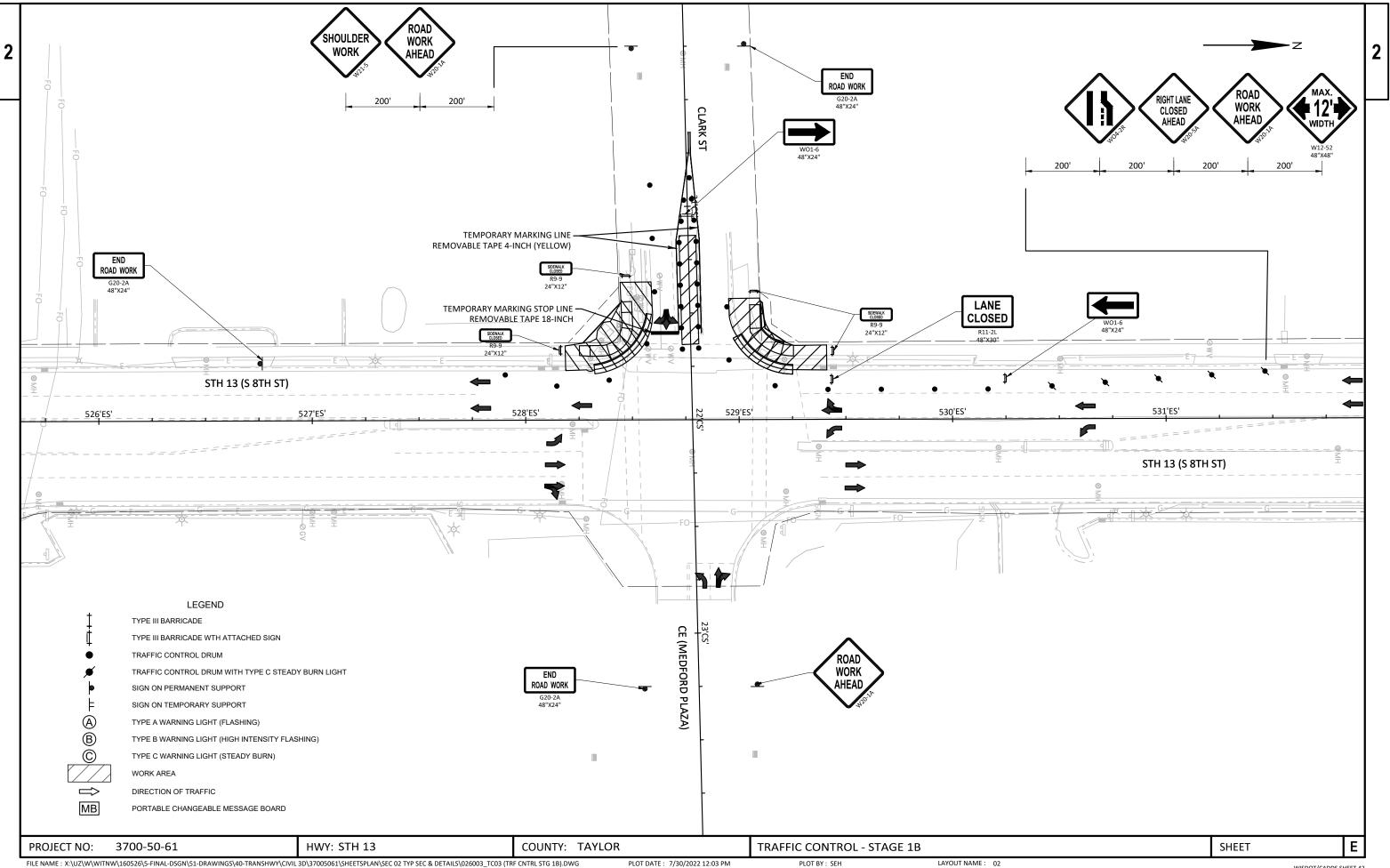
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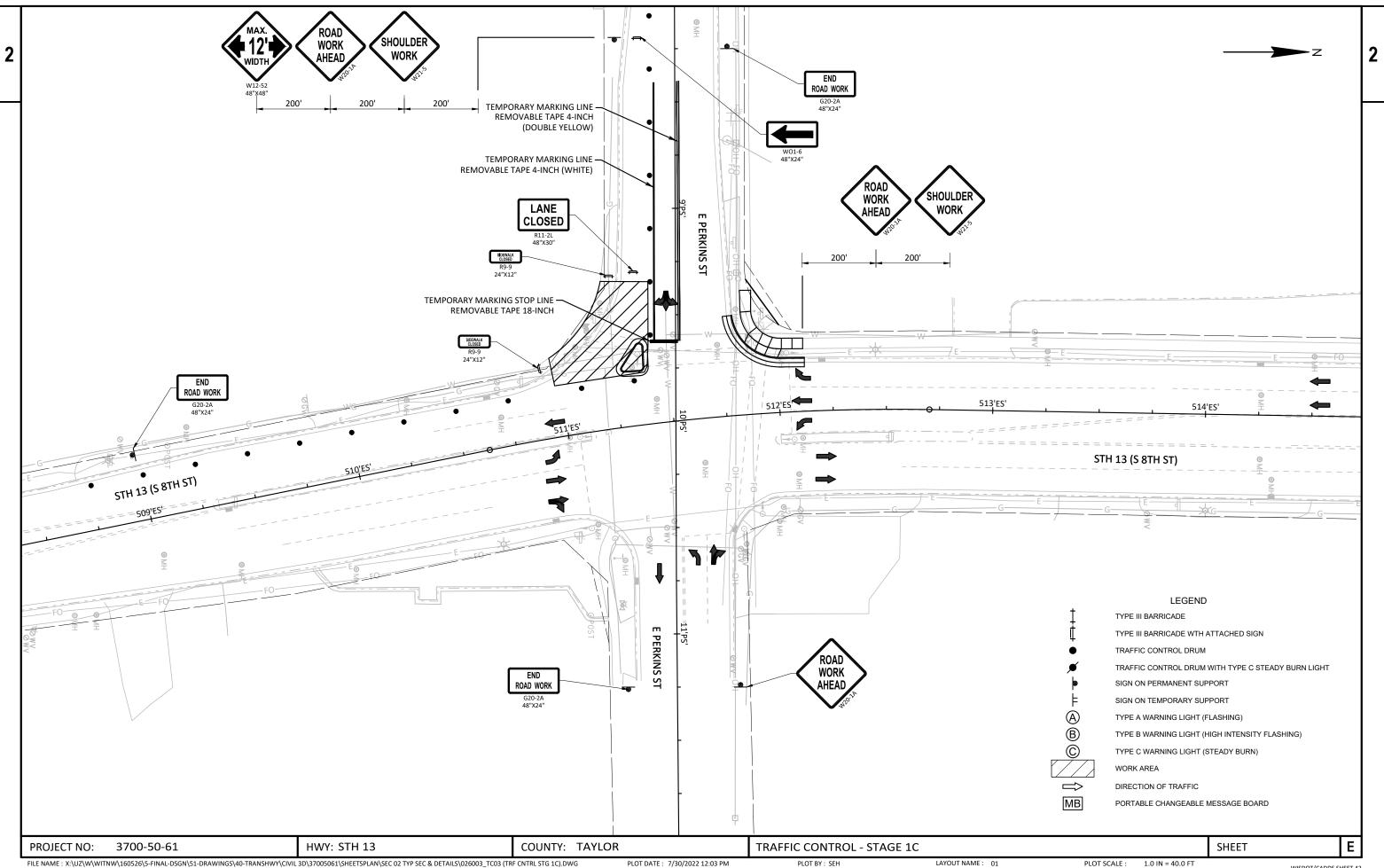




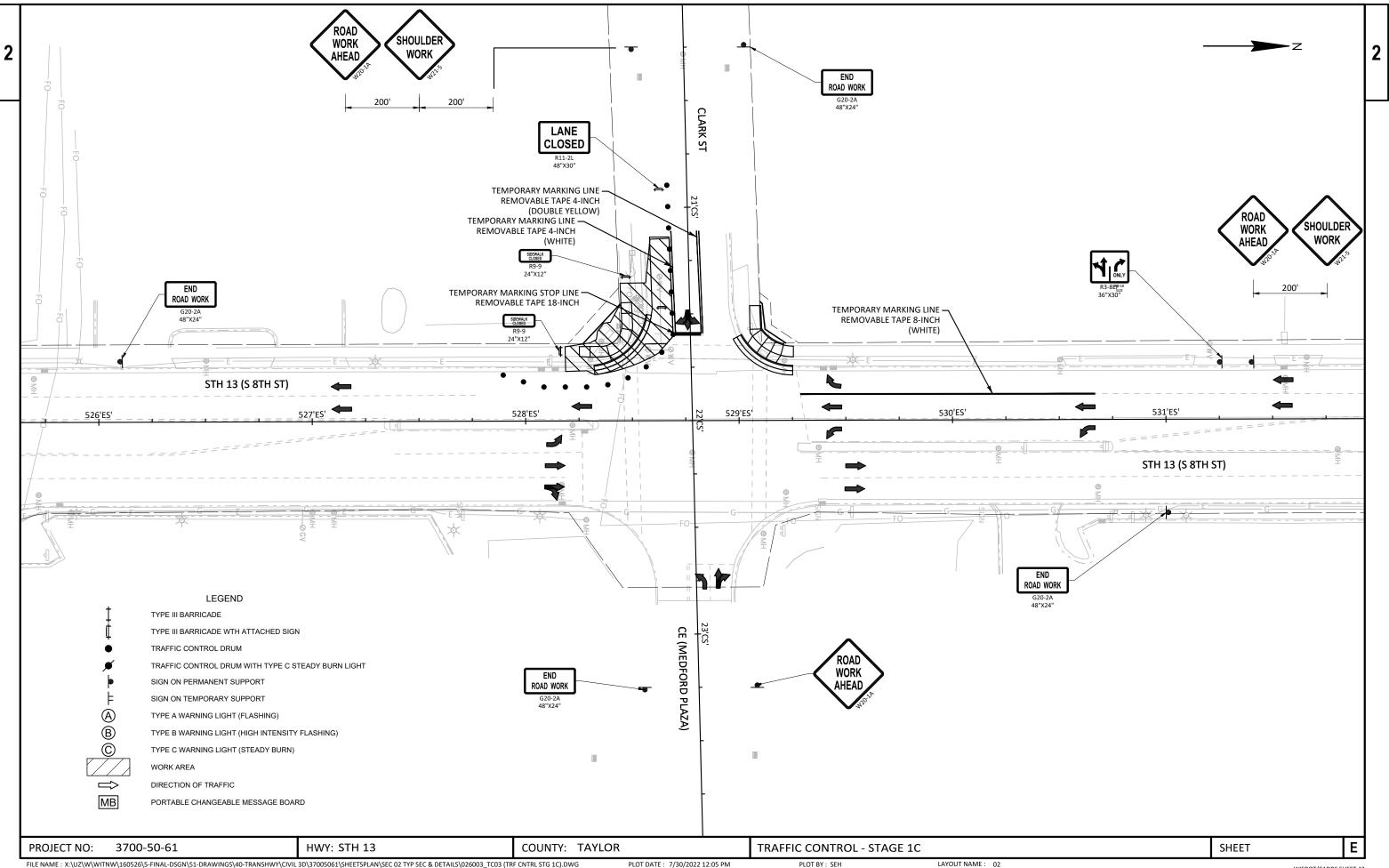






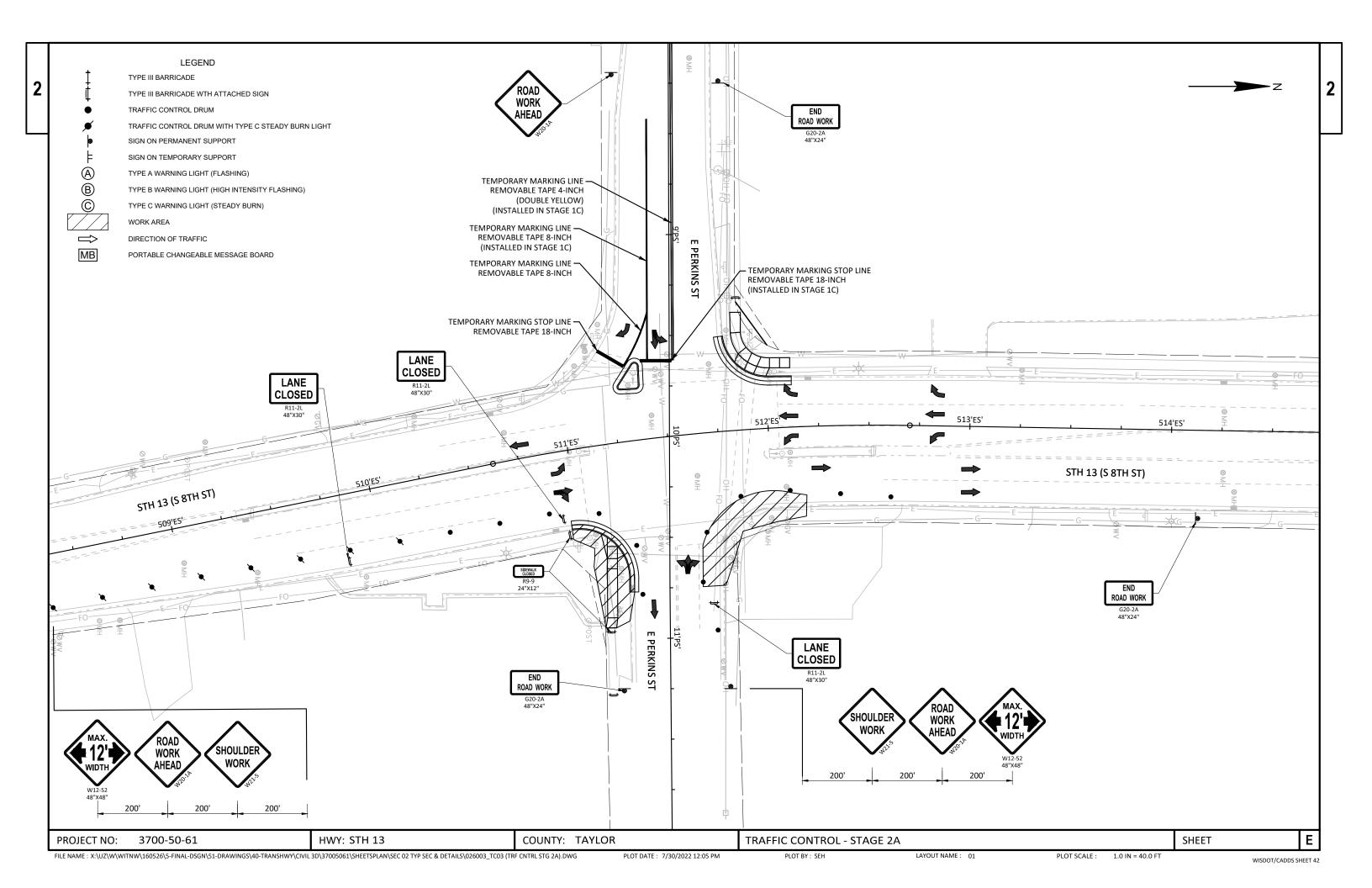


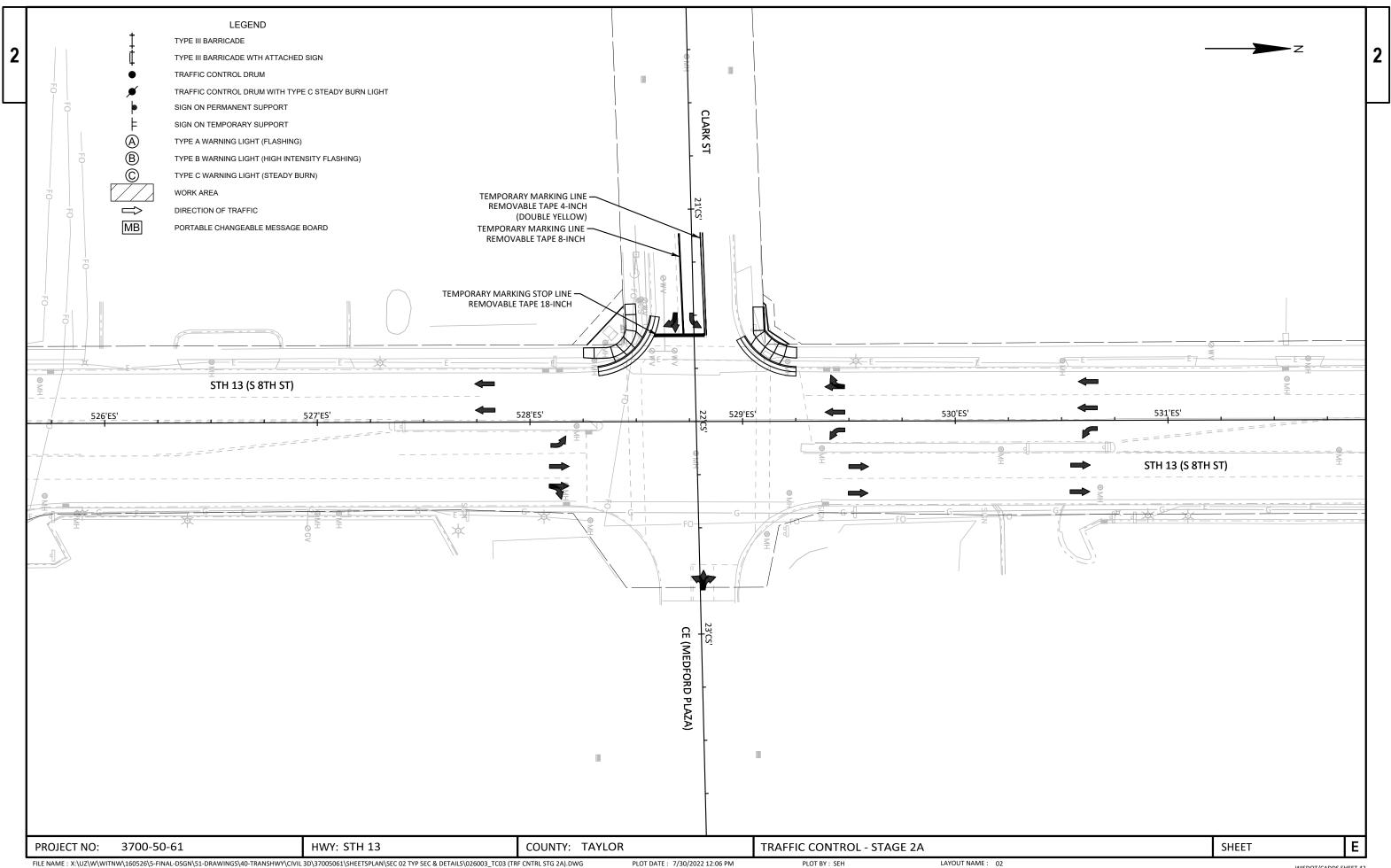
WISDOT/CADDS SHEET 42

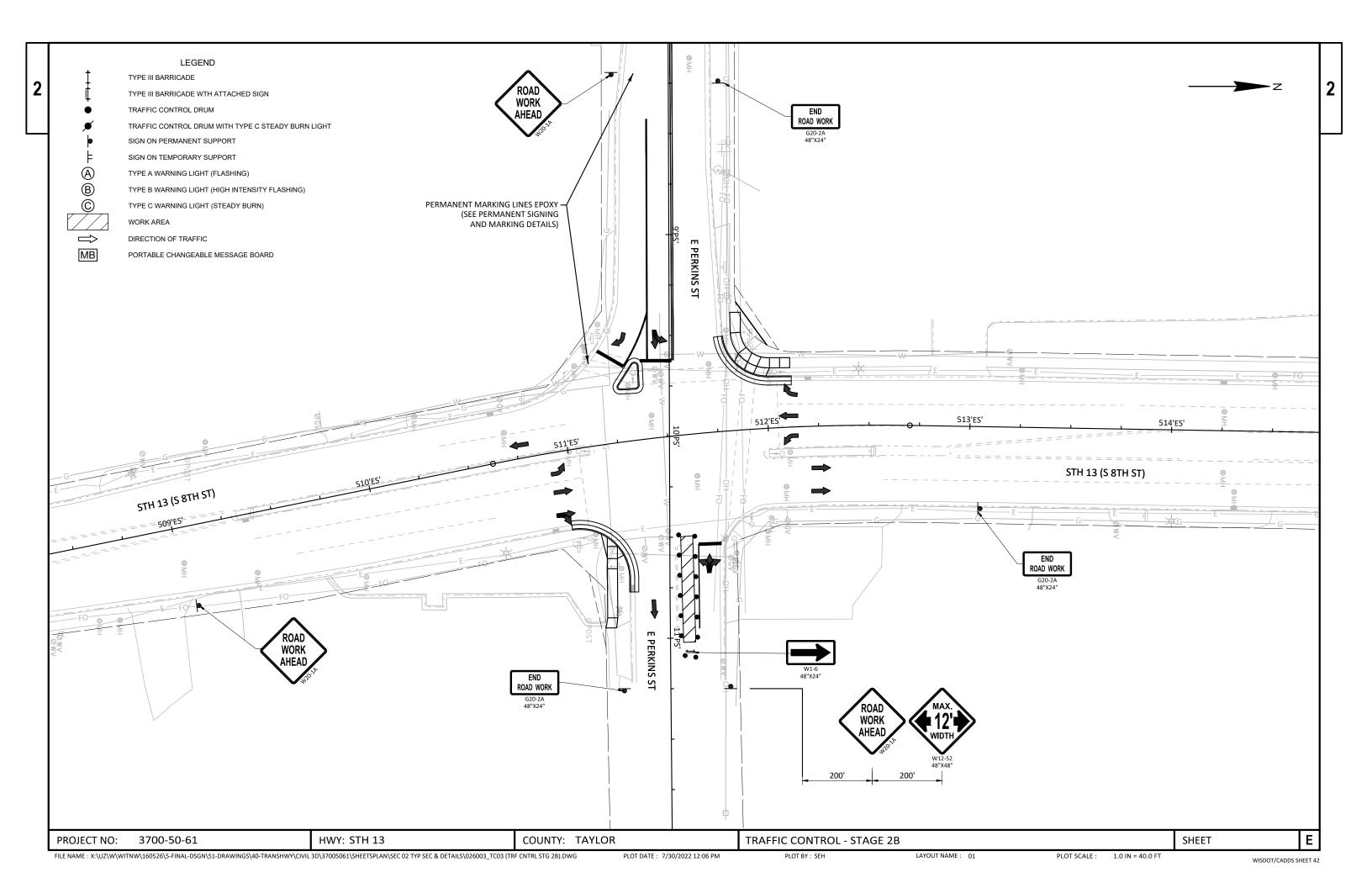


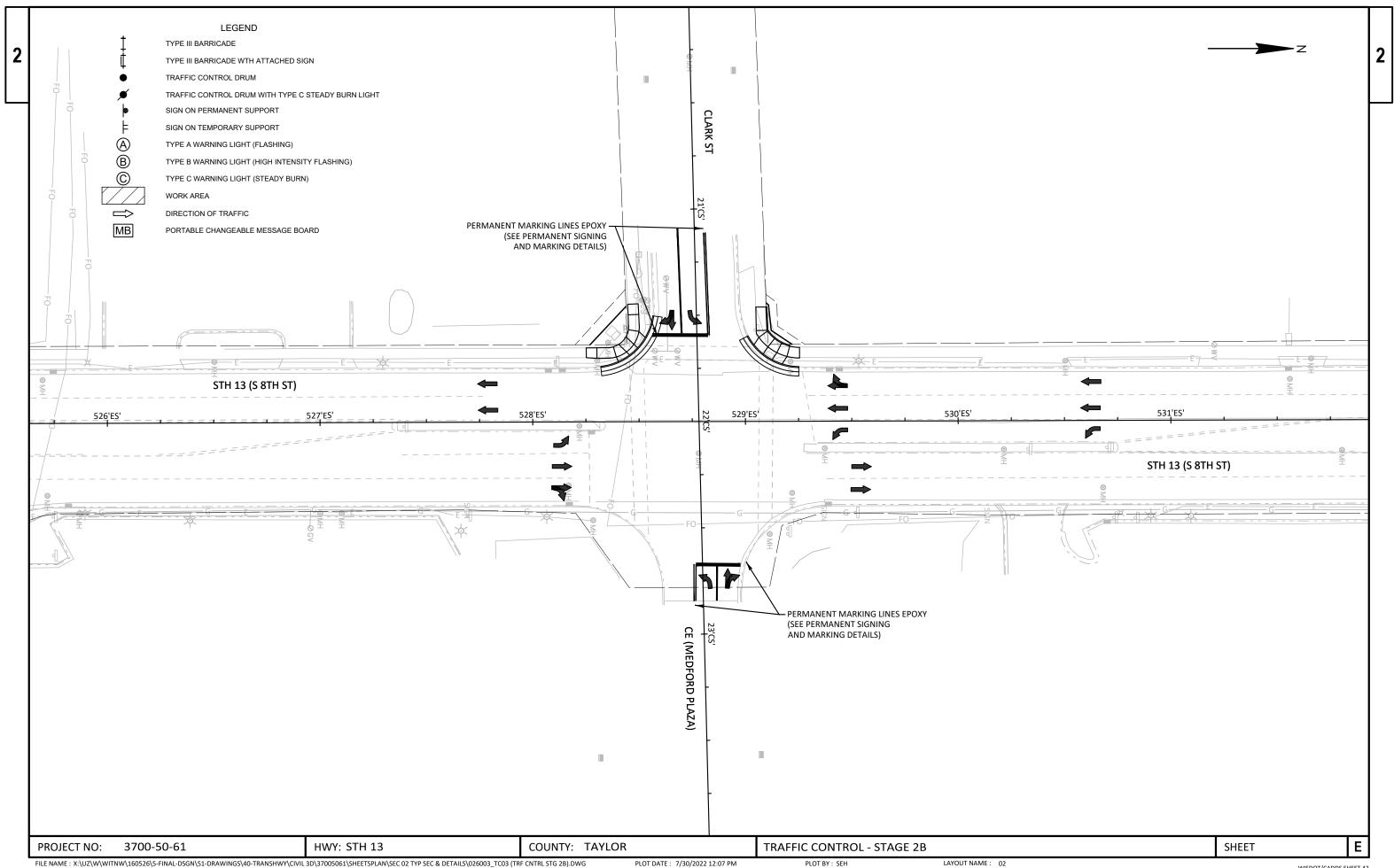
FILE NAME : X:\UZ\W\WITNW\160526\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\37005061\SHEETSPLAN\SEC 02 TYP SEC & DETAILS\026003\_TC03 (TRF CNTRL STG 1C).DWG

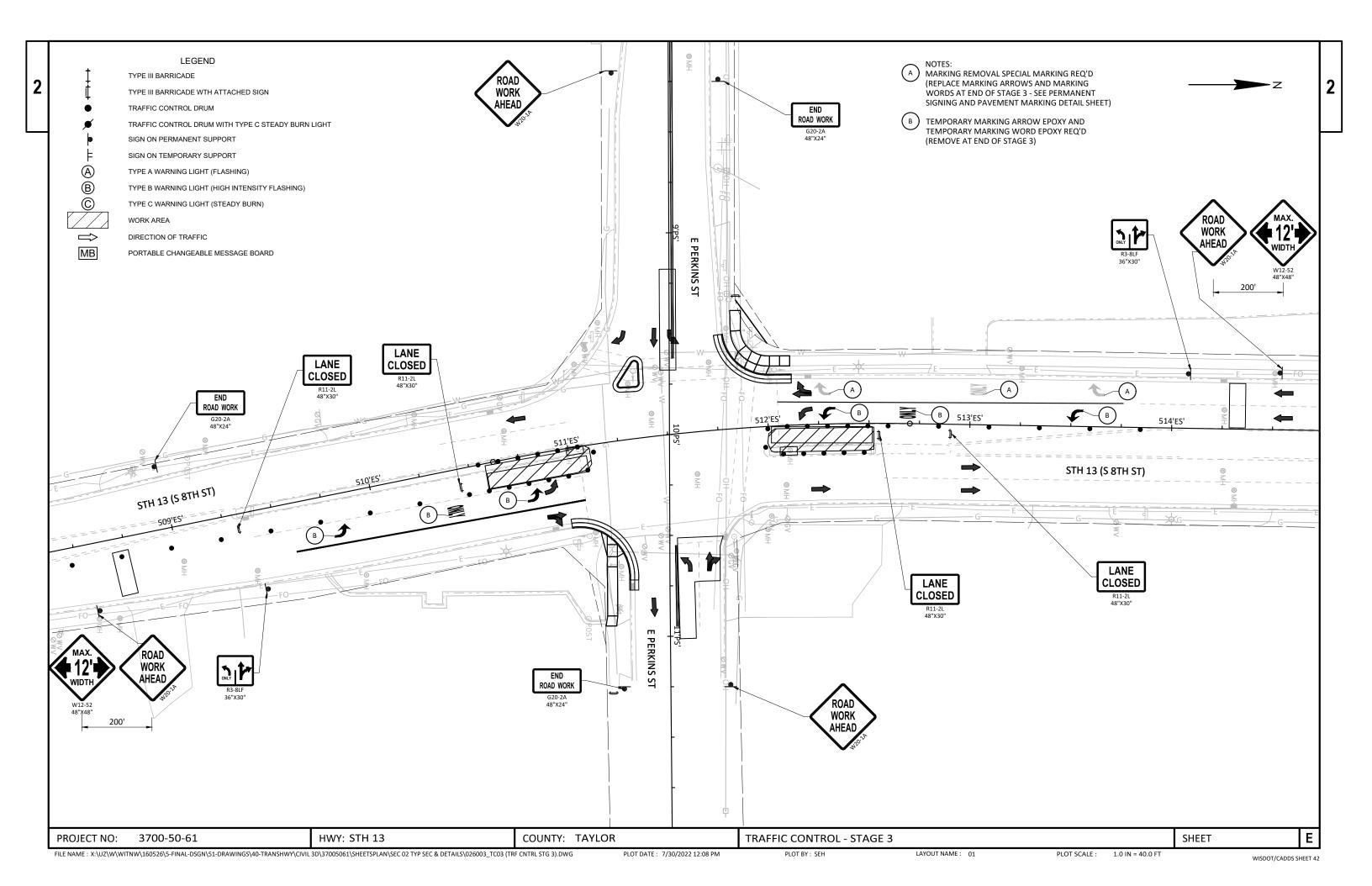
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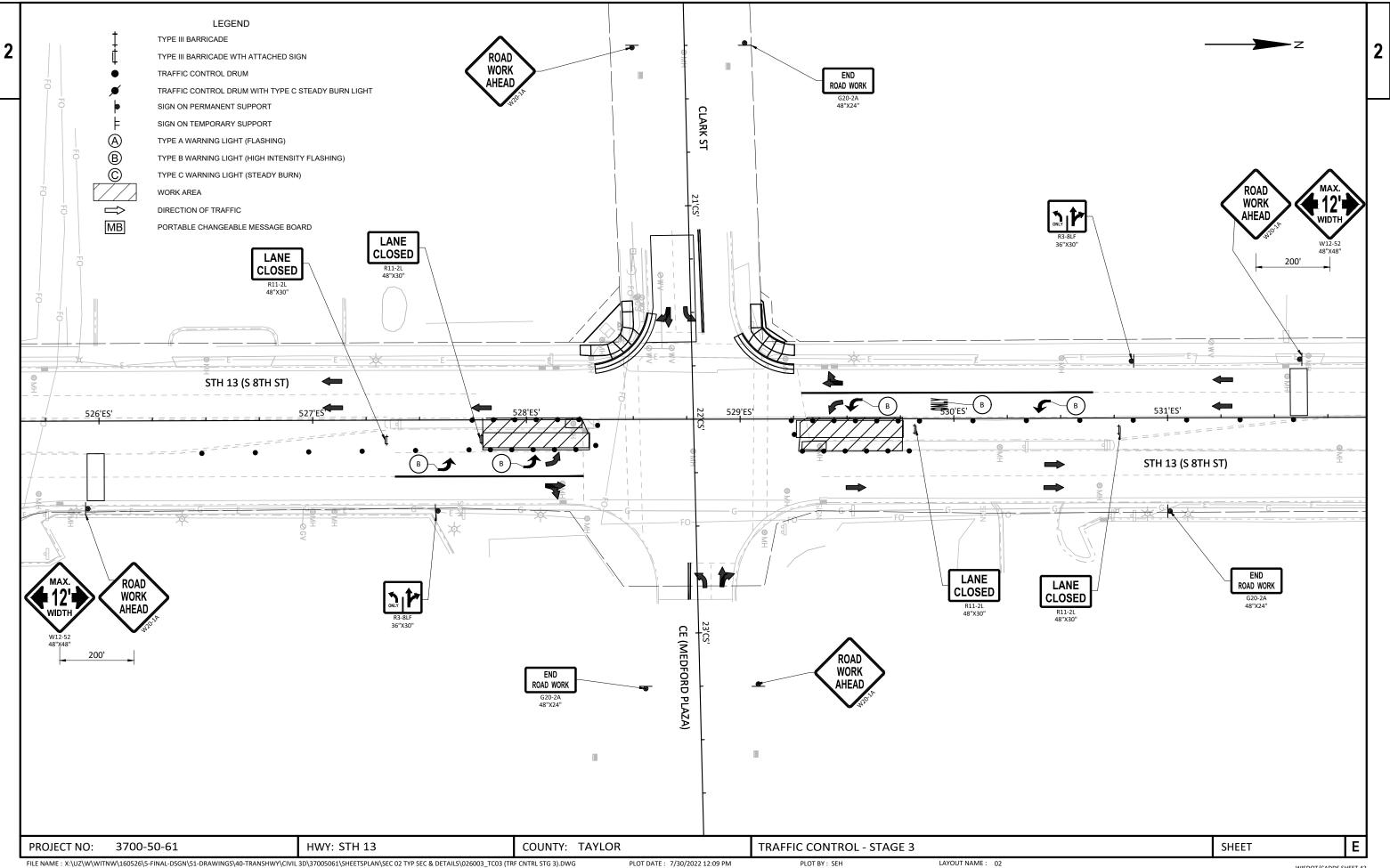












			E	stimate Of C	uantities	
					3700-50-61	
Line	Item	Item Description	Unit	Total	Qty	
002	204.0110	Removing Asphaltic Surface	SY	538.000	538.000	
0004	204.0150	Removing Curb & Gutter	LF	158.000	158.000	
0006	204.0155	Removing Concrete Sidewalk	SY	128.000	128.000	
8000	204.0195	Removing Concrete Bases	EACH	26.000	26.000	
0010	213.0100	Finishing Roadway (project) 01. 3700-50-61	EACH	1.000	1.000	
0012	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	68.000	68.000	
0014	465.0105	Asphaltic Surface	TON	181.000	181.000	
0016	465.0125	Asphaltic Surface Temporary	TON	7.000	7.000	
0018	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	163.000	163.000	
020	601.0600	Concrete Curb Pedestrian	LF	24.000	24.000	
022	602.0410	Concrete Sidewalk 5-Inch	SF	1,081.000	1,081.000	
024	602.0515	Curb Ramp Detectable Warning Field Natural Patina	SF	40.000	40.000	
026	618.0100	Maintenance And Repair of Haul Roads (project) 01. 3700-50-61	EACH	1.000	1.000	
028	619.1000	Mobilization	EACH	1.000	1.000	
0030	625.0100	Topsoil	SY	117.000	117.000	
0032	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000	
0034	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0036	628.2006	Erosion Mat Urban Class I Type A	SY	117.000	117.000	
0038	628.7015	Inlet Protection Type C	EACH	18.000	18.000	
0000	629.0210	Fertilizer Type B	CWT	0.150	0.150	
042	630.0130	Seeding Mixture No. 30	LB	2.100	2.100	
)042 )044	630.0200	Seeding Temporary	LB	4.200	4.200	
)044 )046	630.0200	Seed Water	MGAL	2.600	2.600	
048	634.0812	Posts Tubular Steel 2x2-Inch X 12-FT	EACH	4.000	4.000	
050	637.2215	Signs Type II Reflective H Folding	SF	41.440	41.440	
0052	638.2102	Moving Signs Type II	EACH	6.000	6.000	
054	638.2602	Removing Signs Type II	EACH	12.000	12.000	
056	642.5001	Field Office Type B	EACH	1.000	1.000	
058	643.0300	Traffic Control Drums	DAY	2,680.000	2,680.000	
060	643.0410	Traffic Control Barricades Type II	DAY	130.000	130.000	
0062	643.0420	Traffic Control Barricades Type III	DAY	240.000	240.000	
0064	643.0705	Traffic Control Warning Lights Type A	DAY	215.000	215.000	
0066	643.0715	Traffic Control Warning Lights Type C	DAY	110.000	110.000	
068	643.0900	Traffic Control Signs	DAY	1,120.000	1,120.000	
070	643.0920	Traffic Control Covering Signs Type II	EACH	5.000	5.000	
072	643.3150	Temporary Marking Line Removable Tape 4-Inch	LF	1,330.000	1,330.000	
074	643.3250	Temporary Marking Line Removable Tape 8-Inch	LF	1,225.000	1,225.000	
076	643.3520	Temporary Marking Arrow Epoxy	EACH	8.000	8.000	
078	643.3620	Temporary Marking Word Epoxy	EACH	3.000	3.000	
080	643.3850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	112.000	112.000	
082	643.5000	Traffic Control	EACH	1.000	1.000	
084	646.1020	Marking Line Epoxy 4-Inch	LF	507.000	507.000	
086	646.3020	Marking Line Epoxy 8-Inch	LF	256.000	256.000	
0088	646.5020	Marking Arrow Epoxy	EACH	4.000	4.000	
0090	646.5120	Marking Word Epoxy	EACH	1.000	1.000	
0092	646.6120	Marking Stop Line Epoxy 18-Inch	LF	235.000	235.000	
0094	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	363.000	363.000	
	646.9000	Marking Removal Line 4-Inch	LF	817.000	817.000	
096						



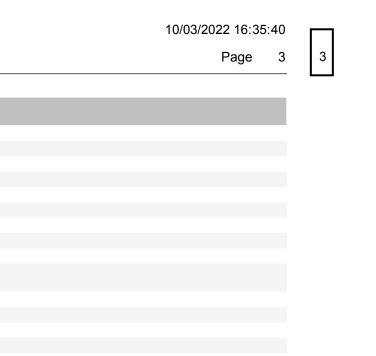
			-		kuunninoo	
					3700-50-61	
Line	Item	Item Description	Unit	Total	Qty	
0100	646.9300	Marking Removal Special Marking	EACH	9.000	9.000	
0102	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	163.000	163.000	
0104	650.8501	Construction Staking Electrical Installations (project) 01. 3700-50-61	EACH	1.000	1.000	
0106	650.9000	Construction Staking Curb Ramps	EACH	4.000	4.000	
0108	650.9500	Construction Staking Sidewalk (project) 01. 3700-50-61	EACH	1.000	1.000	
0110	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	369.000	369.000	
0112	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	589.000	589.000	
0114	652.0605	Conduit Special 2-Inch	LF	905.000	905.000	
0116	652.0615	Conduit Special 3-Inch	LF	1,210.000	1,210.000	
0118	652.0800	Conduit Loop Detector	LF	1,992.000	1,992.000	
0120	653.0164	Pull Boxes Non-Conductive 24x42-Inch	EACH	26.000	26.000	
0122	653.0905	Removing Pull Boxes	EACH	22.000	22.000	
0124	654.0101	Concrete Bases Type 1	EACH	11.000	11.000	
0126	654.0102	Concrete Bases Type 2	EACH	2.000	2.000	
0128	654.0110	Concrete Bases Type 10	EACH	2.000	2.000	
0130	654.0120	Concrete Bases Type 10-Special	EACH	4.000	4.000	
0132	654.0217	Concrete Control Cabinet Bases Type 9 Special	EACH	2.000	2.000	
0134	655.0230	Cable Traffic Signal 5-14 AWG	LF	813.000	813.000	
0136	655.0240	Cable Traffic Signal 7-14 AWG	LF	854.000	854.000	
0138	655.0260	Cable Traffic Signal 12-14 AWG	LF	2,553.000	2,553.000	
0140	655.0270	Cable Traffic Signal 15-14 AWG	LF	212.000	212.000	
0142	655.0305	Cable Type UF 2-12 AWG Grounded	LF	1,696.000	1,696.000	
0144	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	2,064.000	2,064.000	
0146	655.0610	Electrical Wire Lighting 12 AWG	LF	966.000	966.000	
0148	655.0700	Loop Detector Lead In Cable	LF	4,812.000	4,812.000	
0150	655.0800	Loop Detector Wire	LF	6,486.000	6,486.000	
0152	655.0900	Traffic Signal EVP Detector Cable	LF	1,824.000	1,824.000	
0154	656.0201	Electrical Service Meter Breaker Pedestal (location) 01. STH 13 & Perkins Street	EACH	1.000	1.000	
0156	656.0201	Electrical Service Meter Breaker Pedestal (location) 02. STH 13 & Clark Street	EACH	1.000	1.000	
0158	657.0100	Pedestal Bases	EACH	11.000	11.000	
0160	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	2.000	2.000	
0162	657.0305	Poles Type 2	EACH	1.000	1.000	
0164	657.0310	Poles Type 3	EACH	1.000	1.000	
0166	657.0350	Poles Type 10	EACH	2.000	2.000	
0168	657.0352	Poles Type 10-Special	EACH	4.000	4.000	
0170	657.0425	Traffic Signal Standards Aluminum 15-FT	EACH	8.000	8.000	
0172	657.0430	Traffic Signal Standards Aluminum 10-FT	EACH	4.000	4.000	
0174	657.0525	Monotube Arms 25-FT	EACH	1.000	1.000	
0176	657.0530	Monotube Arms 30-FT	EACH	1.000	1.000	
0178	657.0541	Monotube Arms 40-FT-Special	EACH	1.000	1.000	
0180	657.0546	Monotube Arms 45-FT-Special	EACH	4.000	4.000	
0182	657.0595	Trombone Arms 25-FT	EACH	2.000	2.000	
0184	657.0714	Luminaire Arms Truss Type 4-Inch Clamp 15-FT	EACH	1.000	1.000	
0186	657.0808	Luminaire Arms Steel 8-FT	EACH	2.000	2.000	
0188	657.0815	Luminaire Arms Steel 15-FT	EACH	4.000	4.000	
0190	658.0173	Traffic Signal Face 3S 12-Inch	EACH	24.000	24.000	
0.00	658.0174	Traffic Signal Face 4S 12-Inch	EACH	12.000	12.000	
0192			LAON	12.000	12.000	
0192 0194	658.0416	Pedestrian Signal Face 16-Inch	EACH	6.000	6.000	

Estimate Of Quantities



Estimate Of Quantities

					3700-50-61	
Line	Item	Item Description	Unit	Total	Qty	
0198	658.5070	Signal Mounting Hardware (location) 01. STH 13 & Perkins Street	EACH	1.000	1.000	
0200	658.5070	Signal Mounting Hardware (location) 02. STH 13 & Clark Street	EACH	1.000	1.000	
0202	659.1115	Luminaires Utility LED A	EACH	7.000	7.000	
0204	661.0201	Temporary Traffic Signals for Intersections (location) 01. STH 13 & Perkins Street	EACH	1.000	1.000	
0206	661.0201	Temporary Traffic Signals for Intersections (location) 02. STH 13 & Clark Street	EACH	1.000	1.000	
0208	661.0300	Generators	DAY	4.000	4.000	
0210	678.0006	Install Fiber Optic Cable Outdoor Plant 6-CT	LF	2,135.000	2,135.000	
0212	690.0150	Sawing Asphalt	LF	1,398.000	1,398.000	
0214	690.0250	Sawing Concrete	LF	184.000	184.000	
0216	SPV.0060	Special 01. Remove, Disassemble, and Salvage Traffic Signals (STH 13 & Perkins Street)	EACH	1.000	1.000	
0218	SPV.0060	Special 02. Remove, Disassemble, and Salvage Traffic Signals (STH 13 & Clark Street)	EACH	1.000	1.000	
0220	SPV.0060	Special 03. Install State Furnished EVP Detector Heads (STH 13 & Perkins Street)	EACH	1.000	1.000	
0222	SPV.0060	Special 04. Install State Furnished EVP Detector Heads (STH 13 & Clark Street)	EACH	1.000	1.000	
0224	SPV.0060	Special 05. Temporary Vehicle Detection (STH 13 & Perkins Street)	EACH	1.000	1.000	
0226	SPV.0060	Special 06. Temporary Vehicle Detection (STH 13 & Clark Street)	EACH	1.000	1.000	
0228	SPV.0060	Special 07. Install Conduit Into Existing WisDOT Vault	EACH	1.000	1.000	
0230	SPV.0090	Special 01. Install State Furnished CAT-5E Cable	LF	1,014.000	1,014.000	
0232	SPV.0195	Special 01. Excavation Hauling & Disposal Of Contaminated Soil	TON	50.000	50.000	



	REMOV	AL ITEMS					ASPHALTIC S	URFACE		FINISHING ROA		
		REMOVING CURB & GUTTER 204.0150	REMOVING CONCRETE SIDEWALK					204.0110 REMOVING ASPHALTIC	465.0105 ASPHALTIC SURFACE	LOCATION PROJECT (3700-50-61)	213.0100 EACH 1	ST
STATION	LOCATION	204.0150 LF	204.0155 SY	REMARKS		STATION	LOCATION	SURFACE SY	TON	ITEM TOTALS	1	·
STH 13 & PERKIN STH 13 & CLARK	SE QUAD MEDIAN MEDIAN RTTURN ISLAND	45 45 - - 30 38 - -	31 25 4 4 12 20 24 4 4	CURB RAMPS CURB RAMPS CURB RAMPS CURB RAMPS	IRB RAMPS IRB RAMPS IRB RAMPS IRB RAMPS	STH 13 & PERKINS ST	STH 13 PERKINS NW QUAD SE QUAD STH 13 CLARK NW QUAD SW QUAD	128 131 11 12 128 111 7 9	43 44 4 43 37 2 3			
	TOTAL	158	128				TOTAL	538	181			

					ASPHALT	<u>C SURFACE</u>			<b>FINISHING</b>	ROADWAY		<u>ASI</u>	PHALTIC SUR	FACE TEN		
ving Gutter	REMOVING CONCRETE					204.0110 REMOVING	465.010 ASPHALT	IC	CATION	213.0100 EACH	STA1	TION	LOCATION	STAGE	465.0125 TON	REMARKS
150	SIDEWALK 204.0155					ASPHALTIC		E PF	ROJECT (3700-50-6)	1) 1	STH 13 & P	ERKINS ST	SW QUAD	1A	7	RT TURN ISLAND
:	204.0135 SY	REMARKS	_	STATION	N LOCATION	SURFACE SY	TON	ITE	M TOTALS	1			TOTAL		7	
<u>,</u>	31	CURB RAMPS				120	10									
5	25	CURB RAMPS		STH 13 & PERK	VINS ST STH 13 PERKINS	128 131	43 44									
	4				NW QUAD	11	4									
	4				SE QUAD	12	4									
	12															
	20			STH 13 & CLAR		128	43									
) 3	20 24	CURB RAMPS CURB RAMPS				111 7	37									
,	4	CONDINAIMIS	,		NW QUAD	9	2 3									
	4				311 QUAD	5	5									
					TOTAL	538	181									
3	128															
				305.0120 BASE AGGREGATES	601.0411 CONCRETE CURB & GUTTER	CONCRETE C	01.0600 ONCRETE	602.0515 CURB RAMP DETECTABLE WARNING FIFI D	STAKING	650.9000 CONSTRUCTION STAKING O CURB						
				BASE AGGREGATES	CONCRETE CURB & GUTTER	602.0410 6 CONCRETE C SIDEWALK	01.0600 ONCRETE CURB	CURB RAMP DETECTABLE WARNING FIELD	CONSTRUCTION STAKING CURB GUTTER AND	CONSTRUCTION STAKING CURB						
	INT	TERSECTION		BASE AGGREGATES 1 1/4-INCH	CONCRETE	602.0410 6 CONCRETE C SIDEWALK	01.0600 ONCRETE	CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA	CONSTRUCTION STAKING CURB GUTTER AND	CONSTRUCTION STAKING	REMARKS					
				BASE AGGREGATES 1 1/4-INCH	CONCRETE CURB & GUTTER 30-INCH TYPE D	602.0410 6 CONCRETE C SIDEWALK 5-INCH PE	01.0600 ONCRETE CURB DESTRIAN	CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER	CONSTRUCTION STAKING CURB RAMPS	REMARKS					
		8 & PERKINS ST	LOCATION	BASE AGGREGATES 1 1/4-INCH TON	CONCRETE CURB & GUTTER 30-INCH TYPE D LF	602.0410 6 CONCRETE C SIDEWALK 5-INCH PE SF	01.0600 ONCRETE CURB DESTRIAN LF	CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	CONSTRUCTION STAKING CURB RAMPS EACH	REMARKS					
		8 & PERKINS ST		BASE AGGREGATES 1 1/4-INCH	CONCRETE CURB & GUTTER 30-INCH TYPE D	602.0410 6 CONCRETE C SIDEWALK 5-INCH PE	01.0600 ONCRETE CURB DESTRIAN	CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER	CONSTRUCTION STAKING CURB RAMPS	REMARKS					
	STH 13	3 & PERKINS ST	LOCATION NW QUAD	BASE AGGREGATES 1 1/4-INCH TON 19	CONCRETE CURB & GUTTER 30-INCH TYPE D LF 45	602.0410 6 CONCRETE C SIDEWALK 5-INCH PE SF 298	01.0600 ONCRETE CURB DESTRIAN LF	CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF 10	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF 45	CONSTRUCTION STAKING CURB RAMPS EACH 1	REMARKS RT TURN ISLAND					
	STH 13	3 & PERKINS ST 3 & CLARK ST	NW QUAD SE QUAD SW QUAD	BASE AGGREGATES 1 1/4-INCH TON 19 17	CONCRETE CURB & GUTTER 30-INCH TYPE D LF 45 50	602.0410 6 CONCRETE C SIDEWALK 5-INCH PE SF 298 214 100	01.0600 ONCRETE CURB DESTRIAN LF -	CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF 10 10	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF 45 50	CONSTRUCTION STAKING CURB RAMPS EACH 1 1						
	STH 13	8 & PERKINS ST 8 & CLARK ST	NW QUAD SE QUAD SW QUAD NW QUAD	BASE AGGREGATES 1 1/4-INCH TON 19 17 16	CONCRETE CURB & GUTTER 30-INCH TYPE D LF 45 50 30	602.0410 6 CONCRETE C SIDEWALK 5-INCH PE SF 298 214 100 228	01.0600 ONCRETE CURB DESTRIAN LF - - -	CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF 10 10	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF 45 50 30	CONSTRUCTION STAKING CURB RAMPS EACH 1 1						
	STH 13	8 & PERKINS ST 8 & CLARK ST	NW QUAD SE QUAD SW QUAD	BASE AGGREGATES 1 1/4-INCH TON 19 17	CONCRETE CURB & GUTTER 30-INCH TYPE D LF 45 50	602.0410 6 CONCRETE C SIDEWALK 5-INCH PE SF 298 214 100	01.0600 ONCRETE CURB DESTRIAN LF -	CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF 10 10	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF 45 50	CONSTRUCTION STAKING CURB RAMPS EACH 1 1						
	STH 13	8 & PERKINS ST 8 & CLARK ST	NW QUAD SE QUAD SW QUAD NW QUAD	BASE AGGREGATES 1 1/4-INCH TON 19 17 16	CONCRETE CURB & GUTTER 30-INCH TYPE D LF 45 50 30	602.0410 6 CONCRETE C SIDEWALK 5-INCH PE SF 298 214 100 228	01.0600 ONCRETE CURB DESTRIAN LF - - -	CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF 10 10	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF 45 50 30	CONSTRUCTION STAKING CURB RAMPS EACH 1 1						
	STH 13	8 & PERKINS ST 8 & CLARK ST	LOCATION NW QUAD SE QUAD SW QUAD NW QUAD SW QUAD	BASE AGGREGATES 1 1/4-INCH TON 19 17 16 16 16	CONCRETE CURB & GUTTER 30-INCH TYPE D LF 45 50 30 38	602.0410 6 CONCRETE C SIDEWALK 5-INCH PE SF 298 214 100 228 241	01.0600 ONCRETE CURB DESTRIAN LF - - - 24 -	CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF 10 10 10	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF 45 50 30 38	CONSTRUCTION STAKING CURB RAMPS EACH 1 1 1 1						
	STH 13	8 & PERKINS ST 8 & CLARK ST	LOCATION NW QUAD SE QUAD SW QUAD NW QUAD SW QUAD	BASE AGGREGATES 1 1/4-INCH TON 19 17 16 16 16	CONCRETE CURB & GUTTER 30-INCH TYPE D LF 45 50 30 38	602.0410 6 CONCRETE C SIDEWALK 5-INCH PE SF 298 214 100 228 241	01.0600 ONCRETE CURB DESTRIAN LF - - - 24 -	CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF 10 10 10	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF 45 50 30 38	CONSTRUCTION STAKING CURB RAMPS EACH 1 1 1 1						
	STH 13 STH 13	8 & PERKINS ST 8 & CLARK ST	LOCATION NW QUAD SE QUAD SW QUAD NW QUAD SW QUAD	BASE AGGREGATES 1 1/4-INCH TON 19 17 16 16 16 68	CONCRETE CURB & GUTTER 30-INCH TYPE D LF 45 50 30 38	602.0410 6 CONCRETE C SIDEWALK 5-INCH PE SF 298 214 100 228 241 1081	01.0600 ONCRETE CURB DESTRIAN LF - - - 24 -	CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF 10 10 10	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF 45 50 30 38 163	CONSTRUCTION STAKING CURB RAMPS EACH 1 1 1 1					SHEET	

PROJECT NO: 370	00-50-61	HWY: STH 13	COUNTY: TAYLOR				MISCELLANEOUS QUANTITIES			
FILE NAME : X:\UZ\W\WITNW\1	160526\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\C	VIL 3D\37005061\SHEETSPLAN\SEC 03 MISC QTYS\030201-MQ (MISC QTY	s).DWG		PLOT DATE :	9/29/2022 3:15 PM	PLOT BY :	SEH	PLOT NAME :	

		628.7015
		INLET
		PROTECTION
INTERSECTION	LOCATION	TYPE C EACH
STH 13 & PERKINS ST	510+65,LT	1
	510+87,RT	1
	10+50'PS', LT	1
	10+75'PS', RT	1
	512+20, LT	1
	514+25, LT	1
STH 13 & CLARK ST		
	528+10, LT	2
	528+17, RT	1
	528+27,RT	1
	529+39, RT	1
	529+42, LT	2
	531+55, LT	1
UNDISTRIBUTED		4

## PERMANENT SIGNING

		ITEM TOTAL		4	41.44	6	
01-04	R1-1	STOP (FOLDING)	30 X 30	-	5.18	-	PROPOSED SIGNAL POLE
01-03	R1-1	STOP (FOLDING)	30 X 30	-	5.18	-	PROPOSED SIGNAL POLE
01-02	R1-1	STOP (FOLDING)	30 X 30	-	5.18	-	PROPOSED SIGNAL POLE
01-01	R1-1	STOP (FOLDING)	30 X 30	-	5.18	-	PROPOSED SIGNAL POLE
M02-02	R4-7	KEEP RIGHT	24 X 30	1	-	1	MOVE TO POST
M02-01	R4-7	KEEP RIGHT	24 X 30	1	-	1	MOVE TO POST
01-04	R1-1	STOP (FOLDING)	30 X 30	-	5.18	_	PROPOSED SIGNAL POLE
01-03	R1-1	STOP (FOLDING)	30 X 30	-	5.18	-	PROPOSED SIGNAL POLE
01-02	R1-1	STOP (FOLDING)	30 X 30	-	5.18	-	PROPOSED SIGNAL POLE
01-01	R1-1	STOP (FOLDING)	30 X 30	-	5.18	-	PROPOSED SIGNAL POLE
M01-04	R2-1	SPEED LIMIT (30)	24 X 30	-	-	1	MOVE TO PROPOSED SIGNAL POL
M01-03	R4-7	<b>KEEP RIGHT</b>	24 X 30	1	-	1	MOVE TO POST
M01-02	R1-1	STOP	30 X 30	-	-	1	
M01-01	R4-7	<b>KEEP RIGHT</b>	24 X 30	1	-	1	<b>MOVE TO POST</b>
UMBER	CODE	SIGN MESSAGE	(INCHES)	EACH	SF	EACH	REMARKS
GROUP	SIGN		WХН	X 12-FT	TYPE H FOLDING	TYPE II	
SIGN			SIZE	2X2-INCH	REFLECTIVE	SIGNS	
			SIGN	POST TUBULAR STEEL	SIGNS TYPE II	MOVING	
				634.0812	637.2215	638.2102	

PROJECT NO: 3700-50-61	HWY: STH 13	COUNTY: TAYLOR			MISCELLANEOU	S QUANTITIES	S
FILE NAME : X:\UZ\W\WITNW\160526\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\C	IVIL 3D\37005061\SHEETSPLAN\SEC 03 MISC QTYS\030201-MQ (MISC QT)	YS).DWG	PLOT DATE :	9/29/2022 3:15 PM	PLOT BY :	SEH	PLOT NAME :

EROSION CONTROL MOBILIZATIONS

628.1905

MOBILIZATIONS

**EROSION CONTROL** 

EACH

2

2

630.0130

SEEDING

MIXTURE

NO. 30

LB

0.6

0.4

0.2

0.5

0.4

2.1

630.0200

SEEDING

TEMPORARY

LB

1.1

0.8

0.4

1.1

0.8

4.2

630.0500

SEED

WATER

MGAL

0.7

0.5

0.2

0.7

0.5

2.6

629.0210

FERTILIZER

TYPEB

CWT

0.04

0.03

0.01

0.04

0.03

0.15

LOCATION

**ITEM TOTALS** 

**RESTORATION ITEMS** 

628.2006

EROSION MAT

URBAN CLASS I

TYPE A

SY

31

22

11

29

23

117

625.0100

TOPSOIL

SY

31

22

11

29

23

117

PROJECT (3700-50-61)

628.1910

MOBILIZATIONS

EMERGENCY

**EROSION CONTROL** 

EACH

2

2

FILE NAME : X:\UZ\W\WITNW\160526\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\37005061\SHEETSPLAN\SEC 03 MISC QTYS\030201-MQ (MISC QTYS).DWG

MAINTENANCE AND REPAIR OF HAUL ROADS

MOBILIZATION

INTERSECTION LOCATION SF

STH 13 & PERKINS ST

STH 13 & CLARK ST

UNDISTRIBUTED

**ITEM TOTALS** 

LOCATION

PROJECT

PROJECT TOTALS

LOCATION

**ITEM TOTALS** 

PROJECT (3700-50-61)

3

618.0100

<u>(3700-50-61)</u>

EACH

1

1

619.1000

EACH

1

1

AREA

NW QUAD 280

SEQUAD 197

NW QUAD 97

SW QUAD 265

PLOT DATE : 9/29/2022 3:15 PM

PLOT BY :

PLOT NAME

## **REMOVING SIGNS**

			638.2602 REMOVIN	
SIGN			SIGNS	
GROUP	SIGN		TYPEII	
NUMBER	CODE	SIGN MESSAGE	EACH	REMARKS
R01-01	R1-1	STOP (FOLDING)	1	<b>ON SIGNAL POLE</b>
R01-02	R1-1	STOP (FOLDING)	1	<b>ON SIGNAL POLE</b>
R01-03	R1-1	STOP (FOLDING)	1	<b>ON SIGNAL POLE</b>
R01-04	R1-1	STOP (FOLDING)	1	ON SIGNAL POLE
R01-05	R1-1	STOP (FOLDING)	1	ON SIGNAL POLE
R01-06	R1-1	STOP (FOLDING)	1	ON SIGNAL POLE
R02-01	R1-1	STOP (FOLDING)	1	<b>ON SIGNAL POLE</b>
R02-02	R1-1	STOP (FOLDING)	1	ON SIGNAL POLE
R02-03	R1-1	STOP (FOLDING)	1	ON SIGNAL POLE
R02-04	R1-1	STOP (FOLDING)	1	ON SIGNAL POLE
R02-05	R1-1	STOP (FOLDING)	1	ON SIGNAL POLE
R02-06	R1-1	STOP (FOLDING)	1	ON SIGNAL POLE
		<b>ITEM TOTAL</b>	12	

Ε

TRAFFIC CC	<u>DNTROL</u>											TEMPORARY	PAVEMENT M	ARKING			
643.0410 BARRICADES TYPE II DAYS	643.0420	643.0705 WARNING LIGHTS TYPE A DAYS	WARNING LIGHTS		643.0900 SIGNS DAYS	COV	.0920 ERING 5 TYPE II ACH #OF CYCLES				643.3850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH	643.3 TEMPORAR LINE REMO 4-IN (YELLOW)	MARKING ABLE TAPE	643.3250 TEMPORARY MARKING LINE REMOVABLE TAPE 8-INCH	643.3520 TEMPORARY MARKING ARROW EPOXY	643.3620 TEMPORARY MARKING WORD EPOXY	
									LOCATION	STAGE	LF	LF	LF	LF	EACH	EACH	
14	-	-	-	7	49	-											
20	20	20	50	18	90	1	1		STH 13	1C	-	-	-	138			3
20	-	-	-	10	50	-				3				541	8	3	J
-	10	10	40	7	35	-		-									
-	-	-	-	2	10	-			<b>PERKINS ST</b>	1A	12			122			
-	104	104	-	22	286	-				1B	12	370	122				
14	14	14		9	62					1C	12	244	122	122			
14 10	14 10	14	-	9 10	63 50	-				2A	15	-	-	30			
10	10	-	-	9	45	-				2B	12	42	-	-			
10	10	-	-	8	40	-				3							
_	5	10	_	6	30	-				-							
-	-	-	-	4	52	-			CLARK ST	1B	13	190	-	-			
										1C	12	96	48	-	-	_	
										2A	24	96	-	48			
10	5	-	-	8	40	-				3	-			224			
10	10	10	-	7	35	-				2							
-	-	-	-	4	52	-		-	ITEM TOTALS		112	1,038	292	1,225	8	3	
									TENTOTALS		112	1,058		1,225	0	5	
22	42	37	20		193	4						15.					

200			1B	12
63	-		1C	12
50	-		2A	15
45	-		2 B	12
40	-		3	
30	-			
52	-	CLARK ST	1B	13
			1C	12
			2A	24
40	-		3	
35	-			
52	-	<b>ITEM TOTALS</b>		112

43.3850	643.3		643.3250	643.3520	643.3620	
MPORARY	TEMPORARY	YMARKING	TEMPORARY MARKING	TEMPORARY	TEMPORARY	
ING STOP LINE	LINE REMO		LINE REMOVABLE TAPE	MARKING	MARKING	
<b>OVABLE TAPE</b>	4-IN	ICH	8-INCH	ARROW	WORD	
18-INCH	(YELLOW)	(WHITE)		EPOXY	EPOXY	
LF	LF	LF	LF	EACH	EACH	
-	-	-	138			3
			541	8	3	ľ
12			122			
12	370	122				
12	244	122	122			
15	-	-	30			
12	42	-	-			
13	190	-	-			
12	96	48	-	-	-	
24	96	-	48			
			224			
110	1 029	202	1 225	8	3	
112	1,038	292	1,225	õ	5	
	13	50				

LOCATION

PROJECT (37

**ITEM TOTALS** 

				<u>P</u>	AVEMENT MARKING						SAWING			
	646.1020					646.7420						690.0150	690.0250	
	MARKING LINE	646.3020	646.5020	646.5120	646.6120	MARKING	646.9000	646.9200	646.9300			ASPHALT	CONCRET	
	EPOXY	MARKING LINE	MARKING	MARKING	MARKING STOP LINE	CROSSWALK EPOXY	MARKING	MARKING	MARKING	INTERSECTION	LOCATION	LF	LF	REMARK
	4-INCH	EPOXY	ARROW	WORD	EPOXY 18-INCH	TRANSVERSE LINE	<b>REMOVAL LINE</b>	REMOVAL LINE	REMOVAL					
	(YELLOW)	8-INCH	EPOXY	EPOXY		6-INCH	4-INCH	WIDE	SPECIAL MARKING	STH 13 & PERKINS	ST			
LOCATION	LF	LF	EACH	EACH	LF	LF	LF	LF	EACH		NW QUAD	47	15	CURB RAMP/SID
		_									SEQUAD	54	10	CURB RAMP/SID
STH 13 & PERKINS ST											STH 13	352	50	
STH 13	-	-	2	1	67	146	139	57	3		PERKINS	313	-	
PERKINS ST	425	190	1	1	54	105	130	55	2					
T EIKING ST	425	150	1	-	54	105	150	55	2	STH 13 & CLARK ST				
											NW QUAD	38	40	CURB RAMP/SID
STH 13 & CLARK ST											SW QUAD	42	15	CURB RAMP/SID
STH 13					67	-	308	67	_		STH 13	352	54	
CLARK ST	82	66	1		47	112	240	47	4		CLARK	200	-	
CLARK ST	82	00	1	-	47	112	240	47	4					
ITEM TOTALS	507	256	4	1	235	363	817	226	9	ITEM TOTAL		1398	184	
	507	250	-	-	235	505	017	220	5					
NO: 3700-50-61		HWY: ST	H 13		COUNTY	: TAYLOR		MISCELLANEOU	JS QUANTITIES	1			SHE	ET

STH 13 NB/SB

PERKINS ST

**CLARK ST** 

UNDISTRIBUTED

130

240

215

110

1120

5

643.0300

105

260

70

90

-

1079

168

285

50

-

-

-

105

15

-

453

2680

STATION - STATION STAGE DAYS DRUMS DAYS

STAGE 1A 7 15

STAGE 1B 5 52

STAGE 1C 5 14

STAGE 2A 5 18

STAGE 3 13 83

STAGE 1A 7 24

STAGE 1B 5 57

STAGE 1C 5 10

STAGE 2A 5 -

STAGE 2B 5 -

STAGE 3 13 -

STAGE 1B 5 21

STAGE 1C 5 3

STAGE 3 13 -

TOTALS

-

STAGE 2B 5

DRUMS BARRICADES TYPE II

EACH

-

4

-

2

-

8

2

2

2

2

1

-

1

2

-

## TRAFFIC CONTROL

	643.5000 EACH
700-50-61)	1
;	1

## CONCRETE BASE REMOVALS

3

BASE NUMBER STH 13 & PERKINS STREET SB1 SB2 SB3 SB3	REMOVING CONCRETE BASES EACH
SB1 SB2 SB3	1
SB1 SB2 SB3	1
SB2 SB3	1
SB3	_
	1
	1
SB4	1
SB5	1
SB6	1
SB7	1
SB8	1
SB9	1
SB10	1
SB11	1
SB12	1
CB1	1
INTERSECTION TOTAL	13
STH 13 & CLARK STREET	
SB1	1
SB1 SB2	1
SB2 SB3	1
	1
SB5	1
SB5 SB6	1
	1
SB7 SB8	1
SB8	1
	1
SB10 SB11	1
SB11 SB12	1
	1
	L
INTERSECTION TOTAL	13
ITEM TOTALS	26
CONSTRUCTIO ELECTRICAL IN	STALLATIONS
LOCATION	650.8501 EACH
PROJECT (3700-50-61)	
ITEM TOTALS	1

PROJECT NO: 3700-50-61

FROM	то	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	652.0605 CONDUIT SPECIAL 2-INCH LF	652.0615 CONDUIT SPECIAL 3-INCH LF
TH 13 & PERKIN		LI		L1	
CB1	PB1		72		
PB1	PB2			452	
PB1	PB3				82
PB3	PB4				58
PB4	PB5		56		
PB5	PB6				138
PB6	PB7		30		
PB7	PB8	-		225	
PB7	PB9				80
PB9	PB10				84
PB10	PB11				50
PB10	PB12		48		
PB12	PB13				128
PB13	CB1				48
EXT			16		
EXT			18		
PB1	SB1	18			
PB1	SB2	9			
PB4	SB3		5		
PB5	SB4	5			
PB6	SB5	10			
PB7	SB6	6			
PB10	SB7		6		
PB11	SB8	8			
PB13 INTERSECTI	SB9	<u> </u>	251	677	
TH 13 & CLARK S CB1	STREET PB1		27		-
PB1	PB2				124
PB2	PB3		84		
PB3	PB4			228	
PB3	PB5				86
PB5	PB6				66
PB6	PB7		70		
PB7	PB8				110
PB8	PB9		64		
PB9	PB10	230			
PB9	PB11				90 66
PB11	PB12				66
PB12 PB13	PB13 CB1		28 18		
PB13	CB1		18 5		
EXT			8		
PB1	SB1	9	o 		
PB2	SB1	-	5		
PB3	SB2	31			
PB3	SB3	17			
PB6	SB5		14		
PB7	SB6	5			
PB8	SB7		10		
PB9	SB8	5			
PB13	SB9		5		
PB13	SB10	6			
INTERSECTI		303	338	228	542
	ITEM TOTALS		589	905	1210

COUNTY: TAYLOR

<u>CONDUIT</u>

PB1       1         PB2       1         PB3       1         PB4       1         PB5       1         PB6       1         PB7       1         PB8       1         PB9       1         PB10       1         PB11       1         INTERSECTION TOTAL       11
NUMBER         EACH           STH 13 & PERKINS STREET         1           PB1         1           PB2         1           PB3         1           PB4         1           PB5         1           PB6         1           PB7         1           PB8         1           PB9         1           PB10         1           PB11         1           STH 13 & CLARK STREET         11           PB1         1
STH 13 & PERKINS STREET         PB1       1         PB2       1         PB3       1         PB4       1         PB5       1         PB6       1         PB7       1         PB8       1         PB9       1         PB10       1         PB11       11         STH 13 & CLARK STREET       PB1         PB1       1
PB1       1         PB2       1         PB3       1         PB4       1         PB5       1         PB6       1         PB7       1         PB8       1         PB9       1         PB10       1         PB11       11         STH 13 & CLARK STREET       11
PB2       1         PB3       1         PB4       1         PB5       1         PB6       1         PB7       1         PB8       1         PB9       1         PB10       1         PB11       1         STH 13 & CLARK STREET       1         PB1       1
PB3       1         PB4       1         PB5       1         PB6       1         PB7       1         PB8       1         PB9       1         PB10       1         PB11       1         INTERSECTION TOTAL       11         STH 13 & CLARK STREET       1
PB4       1         PB5       1         PB6       1         PB7       1         PB8       1         PB9       1         PB10       1         PB11       1         INTERSECTION TOTAL       11         STH 13 & CLARK STREET       PB1         PB1       1
PB5       1         PB6       1         PB7       1         PB8       1         PB9       1         PB10       1         PB11       1         INTERSECTION TOTAL       11         STH 13 & CLARK STREET       1
PB6         1           PB7         1           PB8         1           PB9         1           PB10         1           PB11         1           INTERSECTION TOTAL         11           STH 13 & CLARK STREET         PB1           PB1         1
PB7         1           PB8         1           PB9         1           PB10         1           PB11         1           INTERSECTION TOTAL         11           STH 13 & CLARK STREET         PB1           PB1         1
PB8         1           PB9         1           PB10         1           PB11         1           INTERSECTION TOTAL         11           STH 13 & CLARK STREET         1           PB1         1
PB9         1           PB10         1           PB11         1           INTERSECTION TOTAL         11           STH 13 & CLARK STREET         PB1           PB1         1
PB10 1 PB11 1 INTERSECTION TOTAL 11 STH 13 & CLARK STREET PB1 1
PB11 1 INTERSECTION TOTAL 11 STH 13 & CLARK STREET PB1 1
INTERSECTION TOTAL 11 STH 13 & CLARK STREET PB1 1
STH 13 & CLARK STREET PB1 1
PB1 1
PB2 1
1 82 1
PB3 1
PB4 1
PB5 1
PB6 1
PB7 1
PB8 1
PB9 1
PB10 1
PB11 1
INTERSECTION TOTAL 11
ITEM TOTALS 22

FILE NAME : X:\UZ\W\WITNW\160526\5-FINAL-DSGN\51-DRAWING\$\40-TRANSHWY\CIVIL 3D\37005061\SHEETSPLAN\SEC 03 MISC QTY\$\030201-MQ (MISC QTY\$).DWG

HWY: STH 13

PLOT DATE : 9/29/2022 3:15 PM

MISCELLANEOUS QUANTITIES
PLOT BY: SEH

PLOT NAME :

## PULL BOXES NON-CONDUCTIVE

PULL			653.0164 PULL BOXES NON-CONDUCTIVE
BOX	STATION		24 X 42 - INCH
NUMBER	STATION	LOCATION	EACH
STH 13 & PERKI		10 1'IT	1
PB1 PB2	512+11.0 'ES' 514+35.3 'ES'	28.1'LT 27.4'LT	1 1
PB3	512+09.6 'ES'	27.4 LT 12.7'RT	1
PB4	512+07.8 'ES'	42.0'RT	1
PB5	511+81.4 'ES'	49.0'RT	1
PB6	511+08.2 'ES'	52.6'RT	1
PB7	510+97.7 'ES'	41.9'RT	1
PB8	508+70.4 'ES'	34.9'RT	1
PB9	511+03.3 'ES'	1.1'RT	1
PB10	511+08.7 'ES'	40.7'LT	1
PB11	511+30.4 'ES'	27.9'LT	1
PB12	9+44.5 'PS'	36.3'RT	1
PB13	9+43.9 'PS'	27.8'LT	1
1 5 2 5	5,1015,10	2710 21	-
	INTERSECTI	ON TOTAL	13
STH 13 & CLARK	STREET		
PB1	528+42.7 'ES'	48.5'LT	1
PB2	529+00.8 'ES'	48.3'LT	1
PB3	529+36.8 'ES'	28.2'LT	1
PB4	531+64.4 'ES'	28.5'LT	1
PB5	529+30.1 'ES'	12.3'RT	1
PB6	529+24.8 'ES'	45.0'RT	1
PB7	529+04.3 'ES'	63.4'RT	1
PB8	528+51.6 'ES'	63.3'RT	1
PB9	528+24.2 'ES'	46.7'RT	1
PB10	525+95.4 'ES'	41.2'RT	1
PB11	528+22.5 'ES'	2.0' RT	1
PB12	528+21.3 'ES'	28.9'LT	1
PB13	528+34.8 'ES'	37.3'LT	1
	INTERSECTI	ON TOTAL	13
		ITEM TOTALS	26

3

SHEET

## LOOP DETECTOR SCHEDULE

LOOP	HOME			SIZE		PAVEMENT	SDD INSTALLATION	652.0800 CONDUIT LOOP DETECTOR	*655.0700 LOOP DETECTOR	655.0800 LOOP DETECT WIRE
NUMBER	RUN PB	STATION	LOCATION	0.22			REFERENCE	LF	LF	LF
TH 13 & PERK	KINS STREET			<u> </u>						
11	PB9	510+79.4 'ES'	9.4'RT	6X20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	100	172	300
12	PB9	511+07.7 'ES'	9.0' RT	6X20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	86	172	258
21	PB2	514+29.4 'ES'	11.6'LT	6X20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	64	276	192
41	PB11	9+39 'PS'	0.8'RT	6X20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	132	155	396
42	PB11	9+67 'PS'	0.7'RT	6X20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96	155	288
51	PB3	512+30.5 'ES'	5.4'RT	6X20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94	91	282
52	PB3	512+02.4 'ES'	4.3'RT	6X20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	78	91	234
61	PB8	508+75.8 'ES'	17.5'RT	6X20	4	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	66	437	264
81	PB5	10+80.2 'PS'	8.4'LT	6X20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	138	148	414
82	PB5	10+52.1 'PS'	7.8'LT	6X20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	100	148	300
83	PB5	10+51.6 'PS'	19.0'LT	6X20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	78	148	234
							INTERSECTION TOTAL	1032	1993	3162
TH 13 & CLAF 11		528+00 6 'FS'	10.1'RT	6X20	3	Αςρμαιτ				
11	PB11	528+00.6 'ES' 528+28.6 'ES'	10.1'RT 10.1'RT		3	ASPHALT ASPHAI T	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	102	79	306
		528+00.6 'ES' 528+28.6 'ES' 531+58.4 'ES'	10.1'RT 10.1'RT 11.9'LT	6X20	3 3 3	ASPHALT ASPHALT ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)			
11 12	PB11 PB11	528+28.6 'ES'	10.1'RT 11.9'LT	6X20	3	ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	102 82	79 79	306 246
11 12 21	PB11 PB11 PB4	528+28.6 'ES' 531+58.4 'ES'	10.1'RT 11.9'LT	6X20 6X20 6X20	3 3	ASPHALT ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	102 82 66	79 79 367	306 246 198
11 12 21 31	PB11 PB11 PB4 PB7 (EXT 2)	528+28.6 'ES' 531+58.4 'ES' EXISTIN	10.1' RT 11.9' LT NG	6X20 6X20 6X20 6X20	3 3 3	ASPHALT ASPHALT ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) EXISTING	102 82 66 10	79 79 <u>367</u> 209	306 246 198 282
11 12 21 31 41	PB11 PB11 PB4 PB7 (EXT2) PB1	528+28.6 'ES' 531+58.4 'ES' EXISTIN 21+34.6 'CS'	10.1' RT 11.9' LT NG 14.0' RT	6X20 6X20 6X20 6X20 6X20 6X20	3 3 3 3 3	ASPHALT ASPHALT ASPHALT ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) EXISTING LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	102 82 66 10 100	79 79 367 209 35	306 246 198 282 300
11 12 21 31 41 42	PB11 PB11 PB4 PB7 (EXT2) PB1 PB1	528+28.6 'ES' 531+58.4 'ES' EXISTIN 21+34.6 'CS' 21+62.6 'CS'	10.1' RT <u>11.9' LT</u> NG 14.0' RT 13.9' RT	6X20 6X20 6X20 6X20 6X20 6X20 6X20	3 3 3 3 3 3	ASPHALT ASPHALT ASPHALT ASPHALT ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) EXISTING LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	102 82 66 10 100 94	79 79 367 209 35 35	306 246 198 282 300 282
11 12 21 31 41 42 51	PB11 PB11 PB4 PB7 (EXT 2) PB1 PB1 PB5	528+28.6 'ES' 531+58.4 'ES' EXISTIN 21+34.6 'CS' 21+62.6 'CS' 529+55.3 'ES'	10.1'RT 11.9'LT NG 14.0'RT 13.9'RT 4.9'LT	6X20 6X20 6X20 6X20 6X20 6X20 6X20 6X20	3 3 3 3 3 3 3	ASPHALT ASPHALT ASPHALT ASPHALT ASPHALT ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) EXISTING LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	102 82 66 10 100 94 102	79 79 367 209 35 35 182	306 246 198 282 300 282 306
11 12 21 31 41 42 51 52	PB11 PB1 PB4 PB7 (EXT 2) PB1 PB1 PB5 PB5	528+28.6 'ES' 531+58.4 'ES' EXISTIN 21+34.6 'CS' 21+62.6 'CS' 529+55.3 'ES' 529+27.3 'ES'	10.1'RT 11.9'LT NG 14.0'RT 13.9'RT 4.9'LT 4.7'LT	6X20 6X20 6X20 6X20 6X20 6X20 6X20 6X20	3 3 3 3 3 3 3 3 3	ASPHALT ASPHALT ASPHALT ASPHALT ASPHALT ASPHALT ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) EXISTING LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	102 82 66 10 100 94 102 88	79 79 367 209 35 35 182 182	306 246 198 282 300 282 306 264
11 12 21 31 41 42 51 52 61	PB11 PB11 PB4 PB7 (EXT 2) PB1 PB1 PB5 PB5 PB10	528+28.6 'ES' 531+58.4 'ES' EXISTIN 21+34.6 'CS' 21+62.6 'CS' 529+55.3 'ES' 529+27.3 'ES' 526+01.4 'ES'	10.1'RT 11.9'LT NG 14.0'RT 13.9'RT 4.9'LT 4.7'LT 26.3'RT	6X20 6X20 6X20 6X20 6X20 6X20 6X20 6X20	3 3 3 3 3 3 3 3 3 3 3	ASPHALT ASPHALT ASPHALT ASPHALT ASPHALT ASPHALT ASPHALT ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) EXISTING LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	102 82 66 10 100 94 102 88 62	79 79 367 209 35 35 182 182 182 354	306 246 198 282 300 282 306 264 186
11 12 21 31 41 42 51 52 61 71	PB11 PB4 PB7 (EXT 2) PB1 PB1 PB5 PB5 PB10 PB1	528+28.6 'ES' 531+58.4 'ES' 21+34.6 'CS' 21+62.6 'CS' 529+55.3 'ES' 529+27.3 'ES' 526+01.4 'ES' 21+34.8 'CS'	10.1'RT 11.9'LT NG 14.0'RT 13.9'RT 4.9'LT 4.7'LT 26.3'RT 1.9'RT 1.8'RT	6X20 6X20 6X20 6X20 6X20 6X20 6X20 6X20	3 3 3 3 3 3 3 3 3 3 3 3	ASPHALT ASPHALT ASPHALT ASPHALT ASPHALT ASPHALT ASPHALT ASPHALT ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) EXISTING LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	102 82 66 10 100 94 102 88 62 124	79 79 367 209 35 35 182 182 182 354 35	306 246 198 282 300 282 306 264 186 372
11 12 21 31 41 42 51 52 61 71 72	PB11 PB4 PB7 (EXT2) PB1 PB1 PB5 PB5 PB10 PB1 PB1	528+28.6 'ES' 531+58.4 'ES' 21+34.6 'CS' 21+62.6 'CS' 529+55.3 'ES' 529+27.3 'ES' 526+01.4 'ES' 21+34.8 'CS' 21+62.8 'CS'	10.1'RT 11.9'LT NG 14.0'RT 13.9'RT 4.9'LT 4.7'LT 26.3'RT 1.9'RT 1.8'RT	6X20 6X20 6X20 6X20 6X20 6X20 6X20 6X20	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	ASPHALT ASPHALT ASPHALT ASPHALT ASPHALT ASPHALT ASPHALT ASPHALT ASPHALT ASPHALT	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) EXISTING LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2) LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	102 82 66 10 100 94 102 88 62 124 120	79 79 367 209 35 35 182 182 354 35 35	306 246 198 282 300 282 306 264 186 372 360

	ECT NO:	3700-50-61	HWY: STH 13	COUNTY: TAYLO			MISCELLANEOU	S QUANTI	
FILE NAME	: X:\UZ\W	\WITNW\160526\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CI	VIL 3D\37005061\SHEETSPLAN\SEC 03 MISC QTYS\030201-MQ (MISC QT)	YS).DWG	PLOT DATE :	9/29/2022 3:15 PM	PLOT BY :	SEH	PLOT NAME :

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SHEET

## CONCRETE BASES

BASE			TYPE 1	TYPE 2	654.0110 CONCRETE BASES TYPE 10	TYPE 10-SPECIAL	654.0217 CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL
NUMBER	STATION	LOCATION	EACH	EACH	EACH	EACH	EACH
STH 13 & PERKIN SB1	511+96.1 'ES'	37.4'LT	1				
SB1	512+02.2 'ES'	28.9'LT	1				
SB2	512+02.2 LS	43.3' RT				1	
	511+79.8 'ES'	52.9' RT	1				
SB5	511+16.7 'ES'	57.9' RT		1			
SB6	511+03.3 'ES'	44.4'RT	1				
SB7	511+03.5 'ES'	38.8'LT				1	
SB8	511+35.9 'ES'	33.6'LT	1				
SB9	511+90.9 'ES'	48.7'LT		1			
CB1	511+93.8 'ES'	42.9'LT					1
							_
	INTERSECTIC	N TOTAL	5	2	0	2	1
TH 13 & CLARK	STREET						
SB1	528+50.3 'ES'	43.0'LT	1				
SB2	529+02.7 'ES'	45.6'LT			1		
SB3	529+08.8 'ES'	34.9'LT	1				
SB4	529+19.4 'ES'	29.4'LT	1				
SB5	529+14.2 'ES'	52.0'RT				1	
SB6	529+02.3 'ES'	67.7'RT	1				
SB7	528+46.8 'ES'	55.6'RT			1		
SB8	528+26.4 'ES'	44.9'RT	1				
SB9	528+30.1 'ES'	36.4'LT				1	
SB10	528+40.8 'ES'	38.4'LT	1				
CB1	528+37.7 'ES'	41.6'LT					1
	INTERSECTIC	IN TOTAL	6	0	2	2	1
	ITEM TO		11	2	2	4	2

LIGHTING WIRE

		655.0305	655.0610
		CABLE TYPE	ELECTRICAL
		UF 2 - 12 AW	G WIRELIGHTING
		GROUNDED	12 AWG
ROM	ТО	LF	LF
TU 42.0 F			
	PERKINS STREET	150	
CB1 SB3	SB3	158	123
CB1	LUMIN SB5		
SB6	LUMIN		144
CB1	SB7	169	-
SB7	LUMIN	-	144
INT	ERSECTION TOTAL	619	411
TH 12 8.0	CLARK STREET		
CB1	SB2	195	_
LB1	LUMIN	199	123
CB1	SB5	268	-
SB1			144
CB1	SB7	319	-
LB2	LUMIN		144
CB1	SB9	295	
SB4	LUMIN		144
INT	ERSECTION TOTAL	1077	555
	ITEM TOTALS	1696	966
	TENTIOTALS	1050	
			CARLE
		GNAL EVP DETECTOR	CABLE
		SNAL EVP DETECTOR	55.0900
		GNAL EVP DETECTOR	555.0900 FFIC SIGNAL
		GNAL EVP DETECTOR	55.0900
		GNAL EVP DETECTOR	555.0900 FFIC SIGNAL P DETECTOR
	TRAFFIC SIG	<mark>GNAL EVP DETECTOR</mark> ( TRA EVI TO	555.0900 FFIC SIGNAL P DETECTOR CABLE
	TRAFFIC SIC FROM STH 13 & PERKIN	SNAL EVP DETECTOR ( TRA EVI TO S STREET	555.0900 FFIC SIGNAL DETECTOR CABLE LF
	TRAFFIC SIC FROM STH 13 & PERKIN CB1	SNAL EVP DETECTOR ( TRA EVI TO S STREET SB7 (HEAD A)	2228
	TRAFFIC SIG FROM STH 13 & PERKIN CB1 CB1	SNAL EVP DETECTOR ( TRA EVI TO S STREET SB7 (HEAD A) SB3 (HEAD B)	2228 2355.0900 2055.0900 2057 2057 2057 2057 2057 2057 2057 20
	TRAFFIC SIC FROM STH 13 & PERKIN CB1	SNAL EVP DETECTOR ( TRA EVI TO S STREET SB7 (HEAD A)	2228
	FROM FROM STH 13 & PERKIN CB1 CB1 CB1 CB1 CB1	SNAL EVP DETECTOR ( TRA EVI TO SSTREET SB7 (HEAD A) SB3 (HEAD B) SB5 (HEAD C) SB9 (HEAD D)	228 234 103 332
	FROM STH 13 & PERKIN CB1 CB1 CB1	SNAL EVP DETECTOR ( TRA EVI TO SSTREET SB7 (HEAD A) SB3 (HEAD B) SB5 (HEAD C) SB9 (HEAD D)	228 234 103
	FROM FROM STH 13 & PERKIN CB1 CB1 CB1 CB1 CB1	SNAL EVP DETECTOR (TRA EVI TO S STREET SB7 (HEAD A) SB3 (HEAD A) SB3 (HEAD B) SB5 (HEAD C) SB9 (HEAD D) ON TOTAL	228 234 103 332
	FROM FROM STH 13 & PERKIN CB1 CB1 CB1 CB1 CB1 INTERSECTI STH 13 & CLARK S CB1	SNAL EVP DETECTOR TRA EVI TO S STREET SB7 (HEAD A) SB3 (HEAD A) SB5 (HEAD C) SB9 (HEAD D) ON TOTAL STREET SB9 (HEAD A)	228 234 103 332 364
	FROM FROM STH 13 & PERKIN CB1 CB1 CB1 CB1 INTERSECTI STH 13 & CLARK S CB1 CB1 CB1 CB1	SNAL EVP DETECTOR TRA EVI TO S STREET SB7 (HEAD A) SB3 (HEAD A) SB5 (HEAD C) SB9 (HEAD D) ON TOTAL STREET SB9 (HEAD A) SB5 (HEAD B)	228 234 103 332 897 364 108
	FROM FROM STH 13 & PERKIN CB1 CB1 CB1 CB1 INTERSECTI STH 13 & CLARK S CB1 CB1 CB1 CB1 CB1 CB1 CB1 CB1	SNAL EVP DETECTOR TRA EVI TO S STREET SB7 (HEAD A) SB3 (HEAD A) SB5 (HEAD C) SB9 (HEAD A) STREET SB9 (HEAD A) SB5 (HEAD A) SB5 (HEAD B) SB7 (HEAD C)	355.0900 (FFIC SIGNAL DETECTOR CABLE LF 228 234 103 332 897 364 108 169
	FROM FROM STH 13 & PERKIN CB1 CB1 CB1 INTERSECTI STH 13 & CLARK S CB1 CB1 CB1 CB1 CB1 CB1 CB1 CB1	SNAL EVP DETECTOR (TRA EV) TO S STREET SB7 (HEAD A) SB3 (HEAD B) SB5 (HEAD C) SB9 (HEAD A) STREET SB9 (HEAD A) SB5 (HEAD B) SB7 (HEAD C) SB2 (HEAD D)	228 234 103 332 897 364 169 286
	FROM FROM STH 13 & PERKIN CB1 CB1 CB1 CB1 INTERSECTI STH 13 & CLARK S CB1 CB1 CB1 CB1 CB1 CB1 CB1 CB1	SNAL EVP DETECTOR (TRA EV) TO S STREET SB7 (HEAD A) SB3 (HEAD B) SB5 (HEAD C) SB9 (HEAD A) STREET SB9 (HEAD A) SB5 (HEAD B) SB7 (HEAD C) SB2 (HEAD D)	355.0900 (FFIC SIGNAL DETECTOR CABLE LF 228 234 103 332 897 364 108 169

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STH 2

STH :

FILE NAME : X:\UZ\W\WITNW\160526\5-FINAL-DSGN\51-DRAWING\$\40-TRANSHWY\CIVIL 3D\37005061\SHEETSPLAN\SEC 03 MISC QTY\$\030201-MQ (MISC QTY\$).DWG

PROJECT NO: 3700-50-61

HWY: STH 13

PLOT DATE : 9/29/2022 3:16 PM

COUNTY: TAYLOR

PLOT BY : SEH

MISCELLANEOUS QUANTITIES

PLOT NAME :

	ELECTRIC WIRE TRAFFIC	SIGNALS
		655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG
FROM	ТО	LF
STH 13 & PERKI		
CB1	SB1	69
SB1	SB2	52
SB2	SB3	138
SB3	SB4	78
SB4	SB5	124
SB5	SB6	71
SB6	SB7	150
SB7	SB8	79
SB8	SB9	203
SB9	CB1	50
505	001	50
INTI	ERSECTION TOTAL	1014
STH 13 & CLARK	STREET	
CB1	SB1	45
SB1	SB2	116
SB2	SB3	118
SB3	SB4	72
SB4	SB5	163
SB5	SB6	94
SB6	SB7	110
SB7	SB8	87
SB8	SB9	174
SB9	SB10	35
SB10	CB1	36
INT	ERSECTION TOTAL	1050
	ITEM TOTALS	2064
ELECTRIC	AL SERVICE METER BREA	KER PEDESTAL
	656 0004 04	
	656.0201.01	656.0201.02
	ELECTRICAL SERVICE	ELECTRICAL SERVICE
OCATION	EACH	EACH
PERKINS STREET	1	
& CLARK STREET		1
	1	1
EM TOTALS	1	1
		I HEET <b>E</b>

TRA	FFI	С	SI	G	N

TRAFFIC SIGNAL CABLE NO. 14 (ABOVE GROUND	I)
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*655.0240 CABLE RAFFIC SIGNAL				*655.0240 CABLE AL TRAFFIC SIGNAL
7 - 14 AWG	50014	70	5 - 14 AWG	7 - 14 AWG
LF	FROM	ТО	LF	LF
	STH 13 & C	LARK STREET		
	SB1	HEAD 14		22
22	SB1	HEAD 16	21	
	SB2	HEAD 12	38	
	SB2	HEAD 13	21	
	SB2	HEAD 15		47
65	SB3	HEAD 22	15	
	SB4	HEAD 4		22
	SB4	HEAD 6	21	
	SB5	HEAD 2	55	
	SB5	HEAD 3	44	
	SB5	HEAD 5		67
22	SB6	HEAD 11	21	
-	SB6	HEAD 19		22
	SB7	HEAD 17	45	
64	SB7	HEAD 18	21	
	SB7	HEAD 20		53
	SB8	HEAD 1	21	
	SB8	HEAD 9		22
	SB9	HEAD 7	51	
	SB9	HEAD 8	40	
	SB9	HEAD 10		62
173	SB10	HEAD 21	15	
	INTERSECTI	ON TOTAL	429	317
	ITEM TO	TALS	813	490

		055.0250	033.0240
		CABLE	CABLE
		TRAFFIC SIGNAL	TRAFFIC SIGNAL
		5 - 14 AWG	7 - 14 AWG
FROM	ТО	LF	LF
STH 13 & PERKI	NS STREET		
SB1	HEAD 21	15	
SB2	HEAD 4		22
SB2	HEAD 6	21	
SB3	HEAD 2	48	
SB3	HEAD 3	37	
SB3	HEAD 5		65
SB4	HEAD 11	19	
SB4	HEAD 15	19	
SB5	HEAD 16	39	
SB5	HEAD 41	15	
SB6	HEAD 1	21	
SB6	HEAD 9		22
SB7	HEAD 7	54	
SB7	HEAD 8	43	
SB7	HEAD 10		64
SB8	HEAD 12	19	
SB8	HEAD 14	19	
SB8	HEAD 21	15	
SB8	HEAD 42	15	
SB9	HEAD 13	59	

384

655.0230

\* ITEMS SHOWN ELSEWHERE IN THE PLANS

FROM	то	*655.0240 CABLE TRAFFIC SIGNAL 7 - 14 AWG LF	655.0260 CABLE TRAFFIC SIGNAL 12 - 14 AWG LF	655.0270 CABLE TRAFFIC SIGNAL 15 - 14 AWG LF	*655.0700 LOOP DETECTOR LEAD IN CABLE LF
STH 13 & PERKIN					
CB1	SB1	69			69
CB1	SB2		58		
CB1	SB3		158		
CB1	SB4		202		
CB1	SB5		292		
CB1	SB6		283		283
CB1	SB7		169		
CB1	SB8			212	424
CB1	SB9	53			
	INTERSECTION TOTAL	122	1162	212	776
STH 13 & CLARK	STREET				
CB1	SB1		45		
CB1	SB2		119		
CB1	SB3	203			203
CB1	SB4		189		
CB1	SB5		294		
CB1	SB6		297		
CB1	SB7		231		
CB1	SB8		178		
CB1	SB9		38		
CB1	SB10	39			39
	INTERSECTION TOTAL	242	1391	0	242
	ITEM TOTALS	364	2553	212	1018

\* ITEMS SHOWN ELSEWHERE IN THE PLANS

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	QUANTITIES
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FILE NAME : X:\UZ\W\WITNW\160526\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\37005061\SHEETSPLAN\SEC 03 MISC QTYS\030201-MQ (MISC QTYS).DWG

PLOT DATE : 9/29/2022 3:16 PM

PLOT BY : SEH

PLOT NAME :

## NAL CABLE NO. 14 (BELOW GROUND)

3

SHEET

## CAST BASES, POLES, MONOTUBE ARMS, LUMINAIRES, AND PUSH BUTTONS

SIGNAL BASE NUMBER	657.0100 PEDESTAL BASES EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2 INCH BOLT CIRCLE EACH	657.0305 POLES TYPE 2 EACH	657.0310 POLES TYPE 3 EACH	POLES	657.0352 POLES YPE 10-SPECIAL EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15 - FT EACH	657.0430 TRAFFIC SIGNAL STANDARDS ALUMINUM 10 - FT EACH		657.0530 MONOTUBE ARMS 30-FT EACH	657.0541 MONOTUBE ARMS 40-FT-SPECIAL EACH	657.0546 MONOTUBE ARMS 45-FT-SPECIAL EACH	657.0595	657.0714 LUMINAIRE ARMS TRUSS TYPE 4-INCH CLAMP 15-FT EACH	657.0808 LUMINAIRE ARMS STEEL 8-FT EACH	657.0815 LUMINAIRE ARMS STEEL 15-FT EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH	659.1115 LUMINAIRES UTI LED A EACH
TH 13 & PERKINS STREET																		
SB1 SB2	1 1						 1								_		1 	
SB2 SB3						1						1			1			1
SB4	1						1								-			
SB5		1		1				1					1	1	-		1	1
SB6	1						1											
SB7						1					1				-	1		1
SB8	1						1										2	
SB9		1	1										1		-			
NTERSECTION TOTAL	5	2	1	1	0	2	4	2	0	0	1	1	2	1	1	1	4	3
H 13 & CLARK STREET																		
SB1	1						1								-			
SB2					1				1						1			1
SB3	1							1									1	
SB4	1						1								-			
SB5						1						1				1		1
SB6	1						1											
SB7 SB8	 1				1		 1			1					-	1		1
SB9						 1						 1				 1		 1
SB10	1							1				1					1	-
NTERSECTION TOTAL	6	0	0	0	2	2	4	2	1	1	0	3	0	0	1	3	2	4
ITEM TOTALS	11	2	1	1	2	4	8	4	1	1	1	4	2	1	2	4	6	7

PROJECT NO: 3700-50-61	HWY: STH 13	COUNTY: TAYLOR				S QUANTITI	
FILE NAME : X:\UZ\W\WITNW\160526\5-FINAL-DSGN\51-DRA	WINGS\40-TRANSHWY\CIVIL 3D\37005061\SHEETSPLAN\SEC 03 MISC QTYS\030201-M	1Q (MISC QTYS).DWG PL	OT DATE : 9/	/29/2022 3:16 PM	PLOT BY :	SEH	PLOT NAME :

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3

SHEET

## TRAFFIC SIGNAL AND PEDESTRIAN FACES, AND BACKPLATES

		SIGNAL HEAD NUMBER	SIGNAL BASE NUMBER	658.0173 TRAFFIC SIGNAL FACE 3S-12 INCH EACH	658.0174 TRAFFIC SIGNAL FACE 4S-12 INCH EACH	658.0416 PEDESTRIAN SIGNAL FACE 16-INCH EACH	SIGNAL HEAD NUMBER	SIGNAL BASE NUMBER	658.0173 TRAFFIC SIGNAL FACE 3S-12 INCH EACH	658.0174 TRAFFIC SIGNAL FACE 4S-12 INCH EACH	658.0 PEDEST SIGNAL 16-II EAG
	STH 13 8	& PERKINS STREET					STH 13 & CLARK STREET				
		1** 2**	6 3	1 1			1** 2**	8 5	1 1		
		3**	3	1		-	3**	5	1		
		4***	2		1		4***	4		1	
		5**	3		1		5**	5		1	-
		6**	2	1			6**	4	1		
		7**	7	1			7**	9	1		-
		8**	7	1			8**	9	1		-
		9***	6		1		9***	8		1	-
		10**	7		1		10**	9		1	-
		11	4	1			11	6	1		-
		12	8	1			12	2	1		-
		13	9	1		-	13	2	1		-
		14	8	1			14	1		1	-
		15	4	1			15	2		1	-
		16	5	1			16	1	1		-
		21	8 1			1	17	7 7	1		-
		<u>22</u> 41	<u>1</u> 5			<u> </u>	<u> </u>	6	1		-
		41 42	5 8			1 1	19 20	6 7		1	-
		42	o			Ŧ	20	10			-
		INTERSECTION TOTAL	-	12	4	4	22	3			-
**RETROREFLECTIVE BACKPLATE				NNEL VISORS			INTERSECTION 1	TOTAL	12	8	2
								ITEM TOTALS	24	12	6
	SIGNAL MOUNTING HARDWA	<b>RE</b> 658.5070.	02			TEMPORARY TRAFF	FIC SIGNALS FOR INTERSECTIONS				<u>INST/</u>
SIG	GNAL MOUNTING HARDWARE		HARDWAR	F							
				-				GNALS 661.0300			
LOCATION	EACH	EACH		_		TEMPORARY TRAFF	FIC SIGNALS TEMPORARY TRAFFIC SIG				
		EACH			LOCATION		FIC SIGNALS TEMPORARY TRAFFIC SIG CTIONS FOR INTERSECTION				
LOCATION STH 13 & PERKINS STREET STH 13 & CLARK STREET	EACH 1 			-   _	LOCATION TH 13 & PERKINS STRE	TEMPORARY TRAFF FOR INTERSEC EACH	FIC SIGNALS TEMPORARY TRAFFIC SIG CTIONS FOR INTERSECTION	S GENERATOR		EPOM	
STH 13 & PERKINS STREET	1					TEMPORARY TRAFF FOR INTERSEC EACH	FIC SIGNALS TEMPORARY TRAFFIC SIC CTIONS FOR INTERSECTION EACH	S GENERATOR DAY	s 	FROM	
STH 13 & PERKINS STREET	1				TH 13 & PERKINS STRE	TEMPORARY TRAFF FOR INTERSEC EACH	FIC SIGNALS TEMPORARY TRAFFIC SIGNALS TEMPORARY TRAFFIC SIGNED STORE INTERSECTION EACH	S GENERATOR DAY 2 2	s 	TERCONNECT	
STH 13 & PERKINS STREET STH 13 & CLARK STREET	1 	 1			TH 13 & PERKINS STRE	TEMPORARY TRAFF FOR INTERSEC EACH	FIC SIGNALS TEMPORARY TRAFFIC SIG CTIONS FOR INTERSECTION EACH 	S GENERATOR DAY 2	s 		
STH 13 & PERKINS STREET STH 13 & CLARK STREET	1 	 1			TH 13 & PERKINS STRE	TEMPORARY TRAFF FOR INTERSEC EACH	FIC SIGNALS TEMPORARY TRAFFIC SIGNALS TEMPORARY TRAFFIC SIGNED STORE INTERSECTION EACH	S GENERATOR DAY 2 2	S  IN	TERCONNECT WISDOT VAULT	CB1 CB1 CABLE

FILE NAME : X:\UZ\W\WITNW\160526\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\37005061\SHEETSPLAN\SEC 03 MISC QTYS\030201-MQ (MISC QTYS).DWG

PLOT DATE : 9/29/2022 3:16 PM

PLOT BY : SEH

PLOT NAME :

	658.0416
658.0174	PEDESTRIAN
RAFFIC SIGNAL	SIGNAL FACE
ACE 4S-12 INCH	16-INCH
EACH	EACH
1	
1	
1	
1	
1	
1	
1	
1	
	1
	1
8	2
12	6

TO

CB1 (S60-0330)

CB1 (S60-0463)

ITEM TOTALS

INSTALL FIBER OPTIC CABLE

## INSTALL FIBER OPTIC PLANT

## CABLE OUTDOOR

6-CT

LF

285

1850

2135

## 678.0006\*\*\*\*

# 3

SHEET

		TRAFFIC SIGNALS			<u> </u>	STALL STATE FURNSIHED EVP	DETECTOR	HEADS
LOCATION	SPV.0060.01 REMOVE, DISASSEMBLE, ANE SALVAGETRAFFIC SIGNALS EACH	D REMOVE, DISA SALVAGETRA	060.02 ASSEMBLE, AND AFFIC SIGNALS ACH		_	SPV.0060.03 INSTALL STATE FURNIS EVP DETECTOR HEAI EACH	HED	SPV.0060.04 INSTALL STATE FURNISHED EVP DETECTOR HEADS EACH
STH 13 & PERKINS STREET	1			_	STH 13 & PERKINS STREET			
STH 13 & CLARK STREET			1					1
ITEM TOTALS	1		1					1
						-		
TEN	IPORARY VEHICLE DETECTION					INSTALL STATE FUR	NISHED CA	AT-5E CABLE
	SPV.0060.05 TEMPORARY VEHICLE DETECTION EACH	SPV.0060.06 TEMPORARY VEHICLE DETECTION EACH	_					SPV.0090.01 INSTALL STATE FURNISHED CAT-5E CABLE
STH 13 & PERKINS STREET	1							LF
STH 13 & CLARK STREET		1				CB1	SB3	248
ITEM TOTALS	1	1	-					254
							TAL	502
		n				CB1 CB1	SB5 SB9	384 128
	INSTALL IN TO EXISTING THEM	1				INTERSECTION TO	TAL	512
	INST. PULL INT BOX WIS	ALL CONDUIT O EXISTING				ITEM TOTALS		1014
INTERCONNE	ECT							
		1						
רן	TEM TOTAL	1					SP	V.0195.01
п	TEM TOTALS	1			-	LOCATION		TON 50
						TOTALS		50
- -	STH 13 & CLARK STREET ITEM TOTALS TEN STH 13 & PERKINS STREET STH 13 & CLARK STREET ITEM TOTALS INTERCONNE W	STH 13 & CLARK STREET          ITEM TOTALS       1         ITEM TOTALS       SPV.0060.05         STEMPORARY VEHICLE DETECTION       EACH         VEHICLE DETECTION       EACH         STH 13 & PERKINS STREET       1         STH 13 & CLARK STREET          ITEM TOTALS       1         ITEM TOTALS       1         INSTALL INTO EXISTING ITEM       INSTALL         INSTALL INTO EXISTING ITEM       INSTALL         INTERCONNECT       WISDOT VAULT         INTERCONNECT       WISDOT VAULT         ITEM TOTALS       ITEM TOTALS	STH 13 & CLARK STREET       1         IEM TOTALS       1         SPU.006.025       SPU.006.025         TEMPORARY       EMPORARY         VEHICLE DETECTION       EACH         ACH       1         STH 13 & PERKINS STREET       1         STH 13 & CLARK STREET       1         STH 13 & CLARK STREET       1         ITEM TOTALS       1         DEMONDARY       1         DEMONDARY       SUBOR 0.67         ITEM TOTALS       1         DEMONDARY       SUBOR 0.67         ITEM TOTALS       1         DIVID SUBSTING TIEN       INSTALL CONDUCT         MUMBER       EACH         NUMBER       EACH         INTERCONNECT       1         MISDOT VAULT       1         ITEM TOTALS       1	STH 13 & CLARK STREET     -     1       ITEM TOTALS     1     1	STH 13 & CLARK STREET     1       IEM TOTALS     1	STH 13 & CLARK STREET	STILI 3.8 CLARK STRET         -         1         STILI 3.8 CLARK STRET         -           TEMPORARY VIENCE DETECTION         SPUDGODO         TEMPORARY VIENCE DETECTION         SPUDGODO         STILI 3.8 CLARK STRET         -           STILI 3.8 CLARK STRET         1         -         STILI 3.8 CLARK STRET         -         -           STILI 3.8 CLARK STRET         1         -         STILI 3.8 CLARK STRET         -         -           STILI 3.8 CLARK STRET         1         -	SH 3 & CURK STRET     -     1     SH 13 & CURK STRET     -       IEM TOTALS     1     IEM TOTALS     1     IEM TOTALS     1       SPL3 & CURK STRET     1     1     IEM TOTALS     1       SPL3 & CURK STRET     1     -     1     IEM TOTALS     1       SPL3 & CURK STRET     1     -     -     1     IEM TOTALS     10       STR 13 & PARINES TRET     1     -     -     1     IEM TOTALS     10       STR 13 & CURK STRET     1     -     -     1     IEM TOTALS     10       IEM TOTALS     1     -     -     1     IEM TOTALS     STR 13 & CURK STRET     IEM TOTALS     IEM TOTALS     IEM TOTALS     IEM TOTALS     IEM TOTALS     STR 13 & CURK STRET     IEM TOTALS     IEM TOTALS <td< td=""></td<>

FILE NAME : X:\UZ\W\WITNW\160526\5-FINAL-DSGN\51-DRAWINGS\40-TRANSHWY\CIVIL 3D\37005061\SHEETSPLAN\SEC 03 MISC QTYS\030201-MQ (MISC QTYS).DWG

PLOT DATE : 10/3/2022 11:06 AM

PLOT BY : SEH

PLOT NAME :

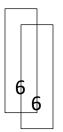
SPV.0060.04 INSTALL STATE FURNISHED EVP DETECTOR HEADS					
EACH					
1					
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SHEET

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## Standard Detail Drawing ListStandard Detail Drawing List

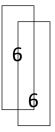
08D01-22A	CONCRETE CURB & GUTTER
08D01-22B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08d05-20a	CURB RAMPS TYPES 1 AND 1-A
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20C	CURB RAMPS TYPES 4A AND 4A1
08D05-20D	CURB RAMPS TYPE 4B AND 4B1
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-20F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-20G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08E10-02	INLET PROTECTION TYPE A, B, C AND D
09B02-10	CONDUIT
09B16-01	PULL BOX NON-CONDUCTIVE
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C06-07	CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL
09C11-10	CONCRETE BASE TYPE 10
09C15-01	CONCRETE BASE TYPE 10 SPECIAL
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D02-03	SIGNAL CONTROL CABINET
09E01-15A	POLE MOUNTINGS FOR TRAFFIC SIGNALS TYPE 2
09E01-15B	POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 3 (HEAVY D
09E01-15G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-06	NON-FREEWAY LIGHTING UNIT POLE WIRING
09E06-05	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15
09E07-06	TRAFFIC SIGNAL STANDARD FOLT DRACKET MOUNTINGS (THICKE) IS THE OR IS
09E08-09E	TYPE 10 POLE 15'-30' MONOTUBE ARM
09E08-09E	TYPE 10 SPECIAL POLE 40' MONOTUBE ARM
09E08-09H	TYPE 10 SPECIAL POLE 45' MONOTUBE ARM
09E08-09K	GENERAL NOTES, HARDWARE DETAILS FOR TYPE 9/10, 9/10 SPECIAL, 12 & 13 POLE
09F15-04A	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROAD
09F15-04B	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROAD
09G01-04A	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04B	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04C	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04D	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04E	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04F	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G01-04G	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
15C02-08F	ADVANCED WIDTH RESTRICTION SIGNING
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-15B	PAVEMENT MARKING WORDS
15c07-15c	PAVEMENT MARKING ARROWS
15C08-20B	PAVEMENT MARKING (TURN LANES)
15C08-20C	PAVEMENT MARKING (TURN LANES)
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C18-05C	MEDIAN PAVEMENT MARKINGS DOUBLE ARROW WARNING SIGN PLACEMENT
15C33-04	
	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D20-05A	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D21-07A	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D21-07B	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

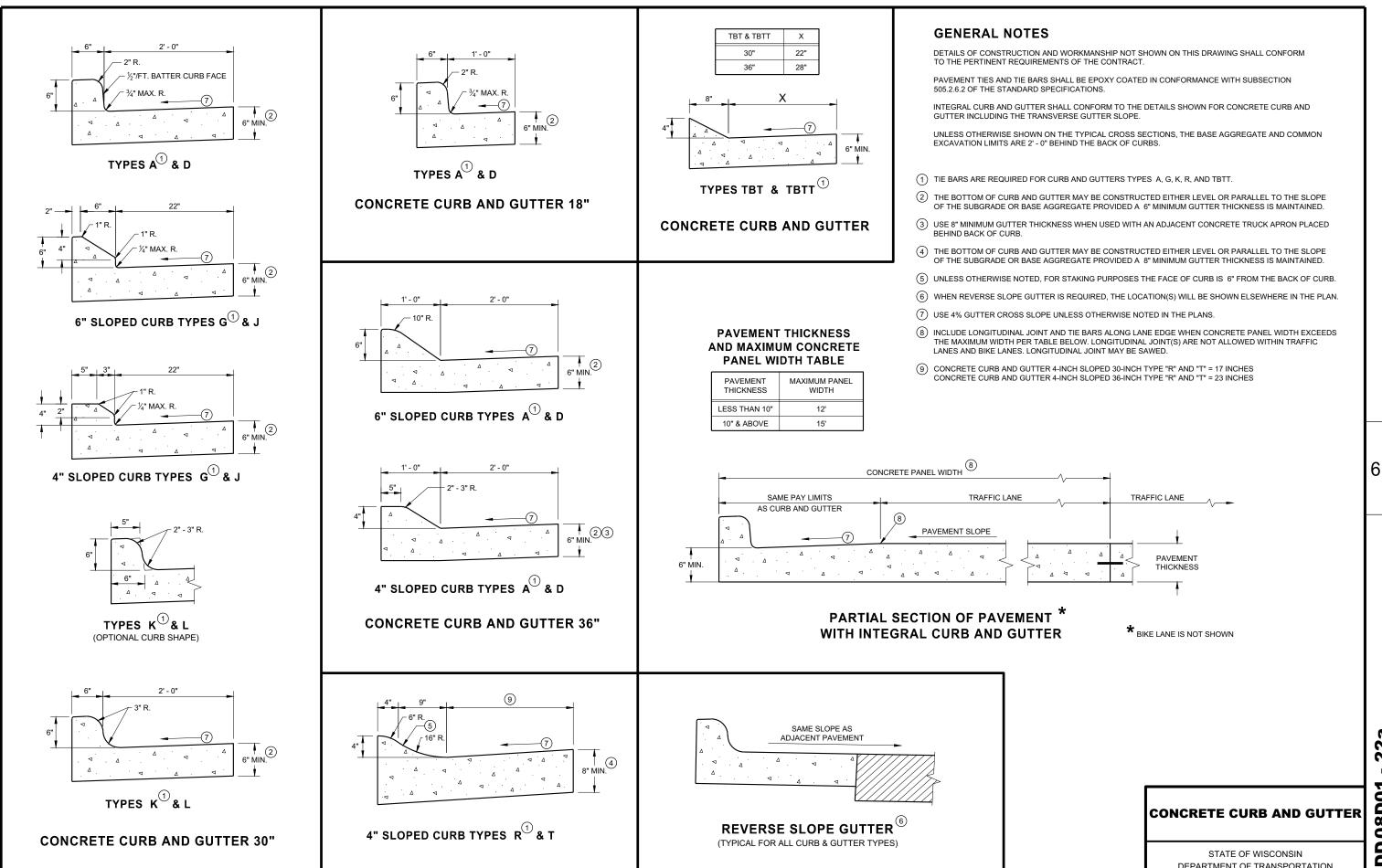


DUTY)

FT. LS

ES W/MONOTUBE ARMS ADWAY (OPTION 1) ADWAY (OPTION 2)



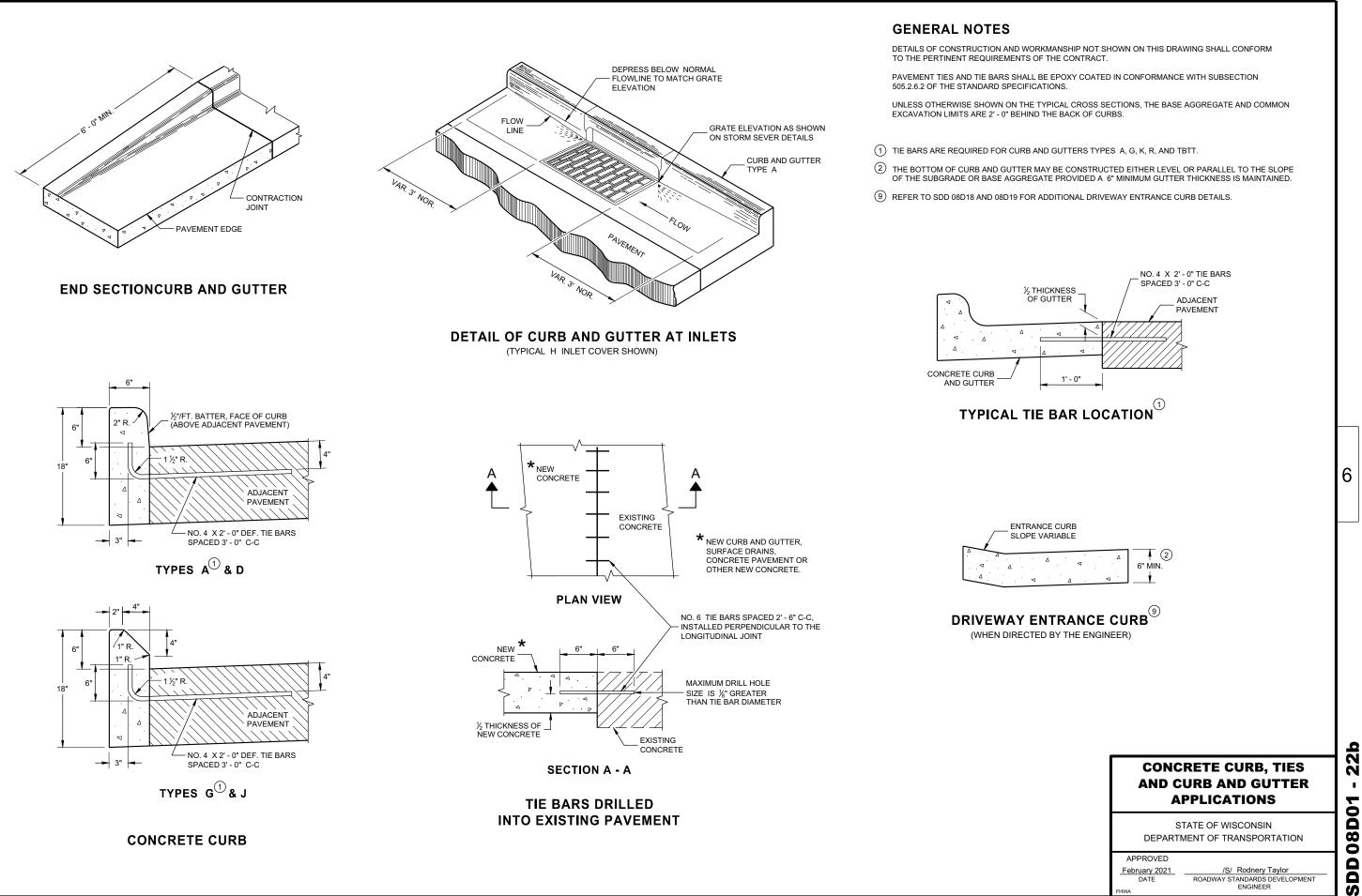


**SDD 08D01** 22a

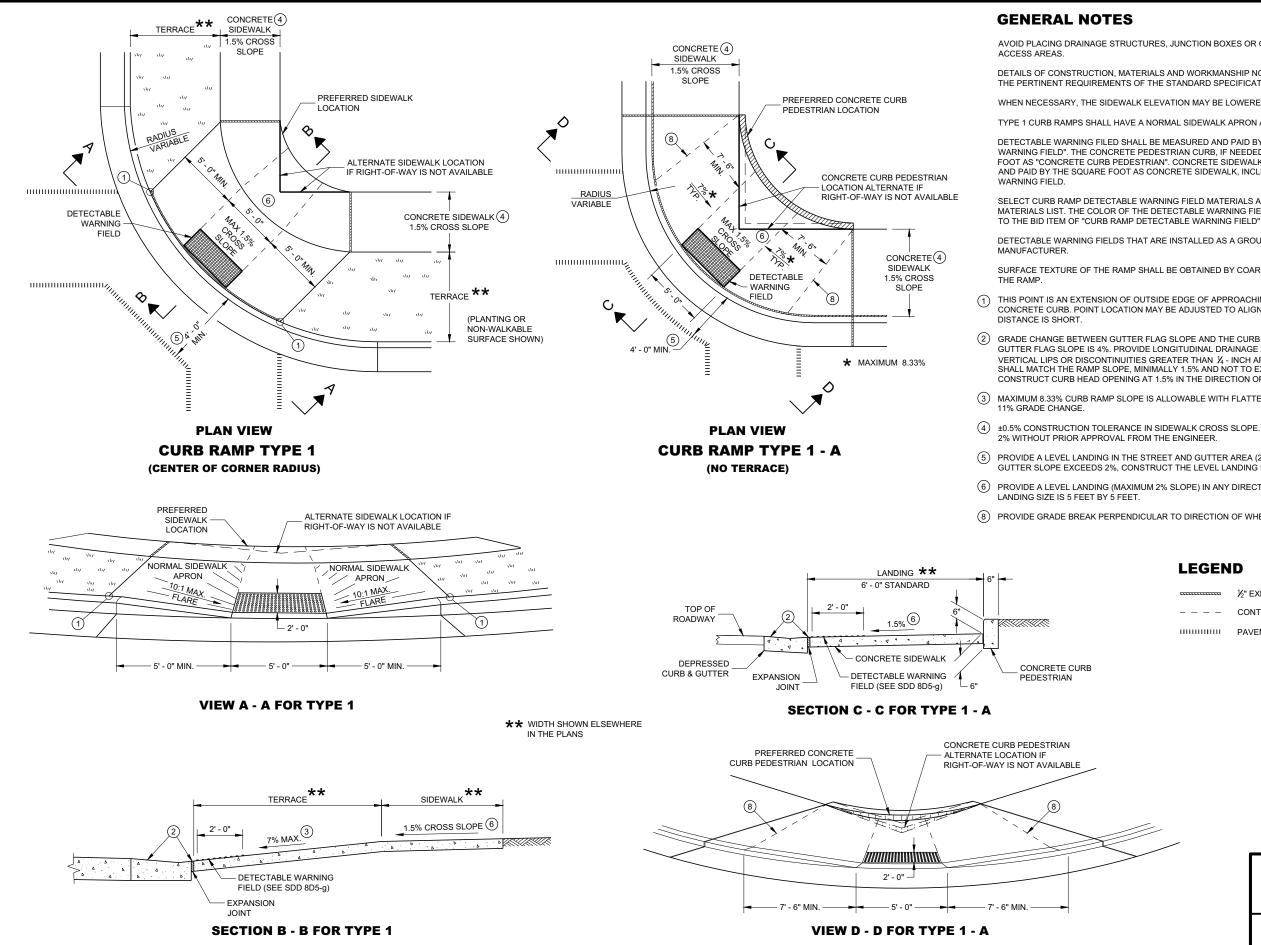
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DEPARTMENT OF TRANSPORTATION

22 . **08D01** SDD



**SDD 08D01 22b** 



**SDD 08D05** N Öa

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AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP

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

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP

TYPE 1 CURB RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FILED SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAR FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF

THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB. POINT LOCATION MAY BE ADJUSTED TO ALIGN WITH BEGINNING OF FULL-HEIGHT CURB IF THIS

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4 - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL

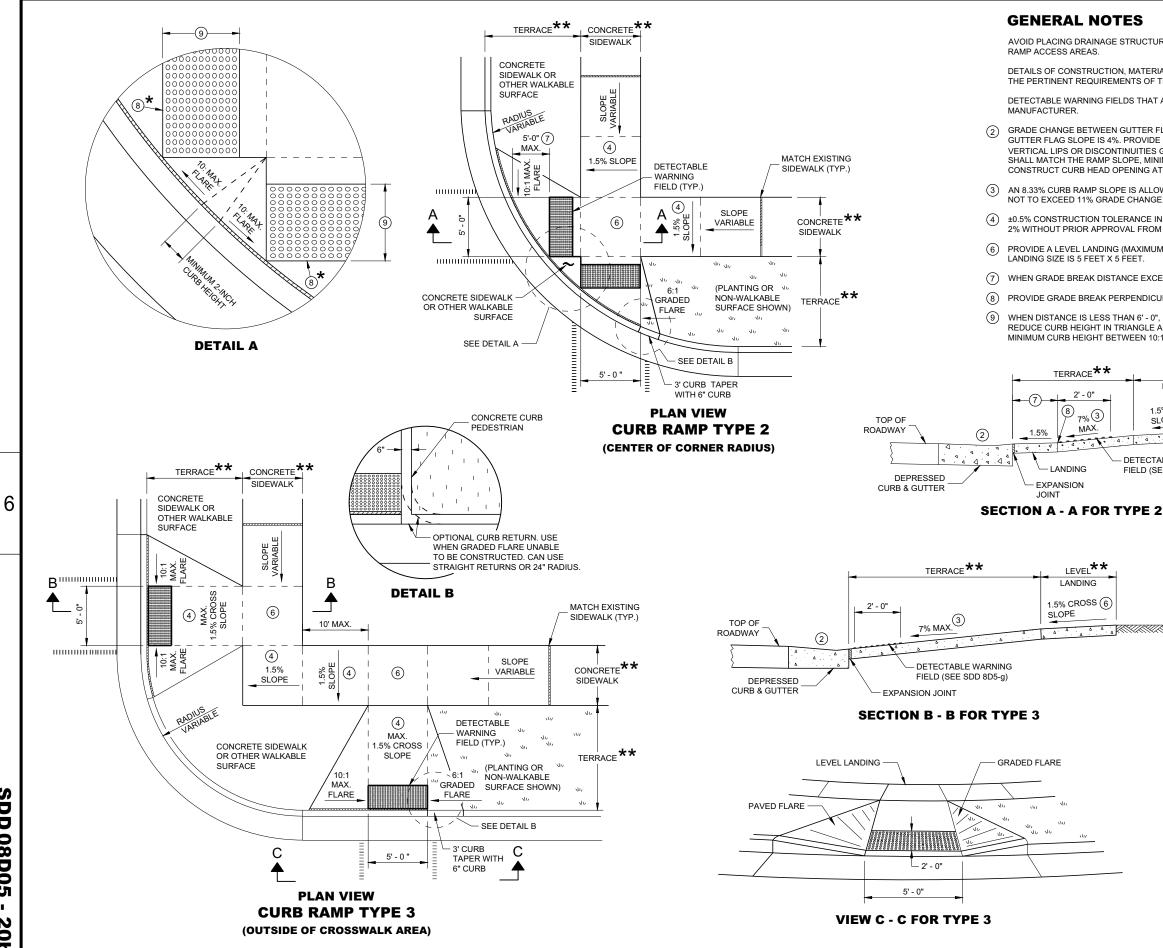
(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

## LEGEND

 $\frac{1}{2}$ " EXPANSION JOINT SIDEWALK
 CONTRACTION JOINT FIELD LOCATED
 PAVEMENT MARKING CROSSWALK (WHITE)

## **CURB RAMPS TYPE 1 AND 1-A**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

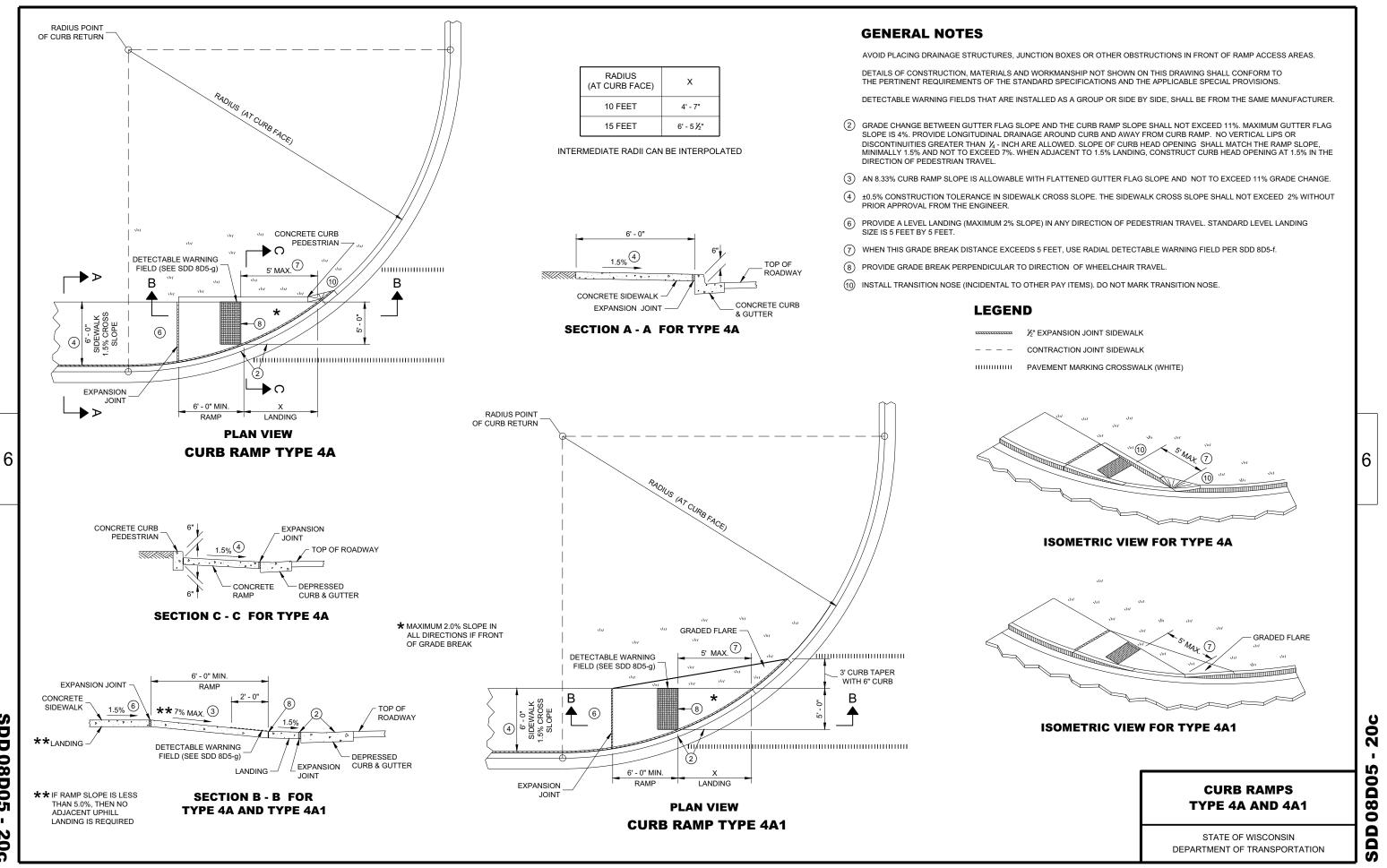


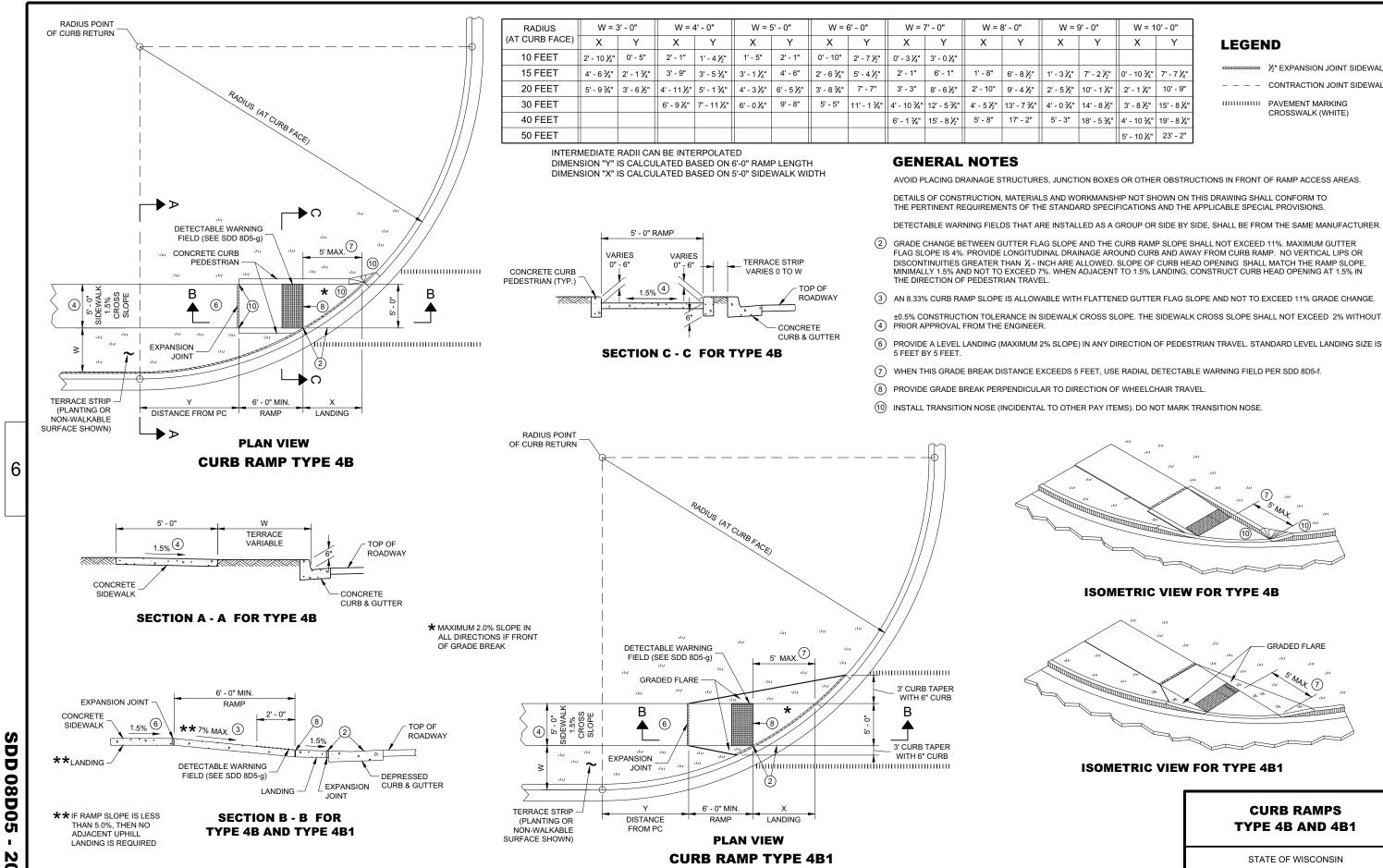
**SDD 08D05** 20Ь

CURB RAMPS TYPE 2 AND 3	D 08D(
	08D05 - 20b
Image: LEGEND         Image: Key and the second se	
(SEE SDD 8D5-g)	6
LEVEL ** LANDING 1.5% CROSS (6) SLOPE *** WIDTH SHOWN ELSEWHERE IN THE PLANS	
ICULAR TO DIRECTION OF WHEELCHAIR TRAVEL. 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. E AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH 10:1 FLARES.	
1UM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL KCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.	
E IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED OM THE ENGINEER.	
LOWABLE WITH FLATTENED GUTTER FLAG SLOPE (2.67% OR LESS) AND IGE.	
R FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM IDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO ES GREATER THAN $\frac{1}{4}$ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING IINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, E AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.	
OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.	
TURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF	

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

SD





20d

9' - 0"	W = 10' - 0"		
Y	Х	Y	
7' - 2 ½"	0' - 10 ¾"	7' - 7 1⁄4"	
10' - 1 ¼"	2' - 1 ¼"	10' - 9"	
14' - 8 ½"	3' - 8 ½"	15' - 8 ¼"	
18' - 5 ¾"	4' - 10 ¾"	19' - 8 ¼"	
	5' - 10 ¼"	23' - 2"	
	Y 7' - 2 ½" 10' - 1 ¼" 14' - 8 ½"	Y         X           7' - 2 ½"         0' - 10 ¾"           10' - 1 ¼"         2' - 1 ¼"           14' - 8 ½"         3' - 8 ½"           18' - 5 ¾"         4' - 10 ¾"	

 $\frac{\gamma}{2}$ " EXPANSION JOINT SIDEWALK
 CONTRACTION JOINT SIDEWALK
 PAVEMENT MARKING CROSSWALK (WHITE)

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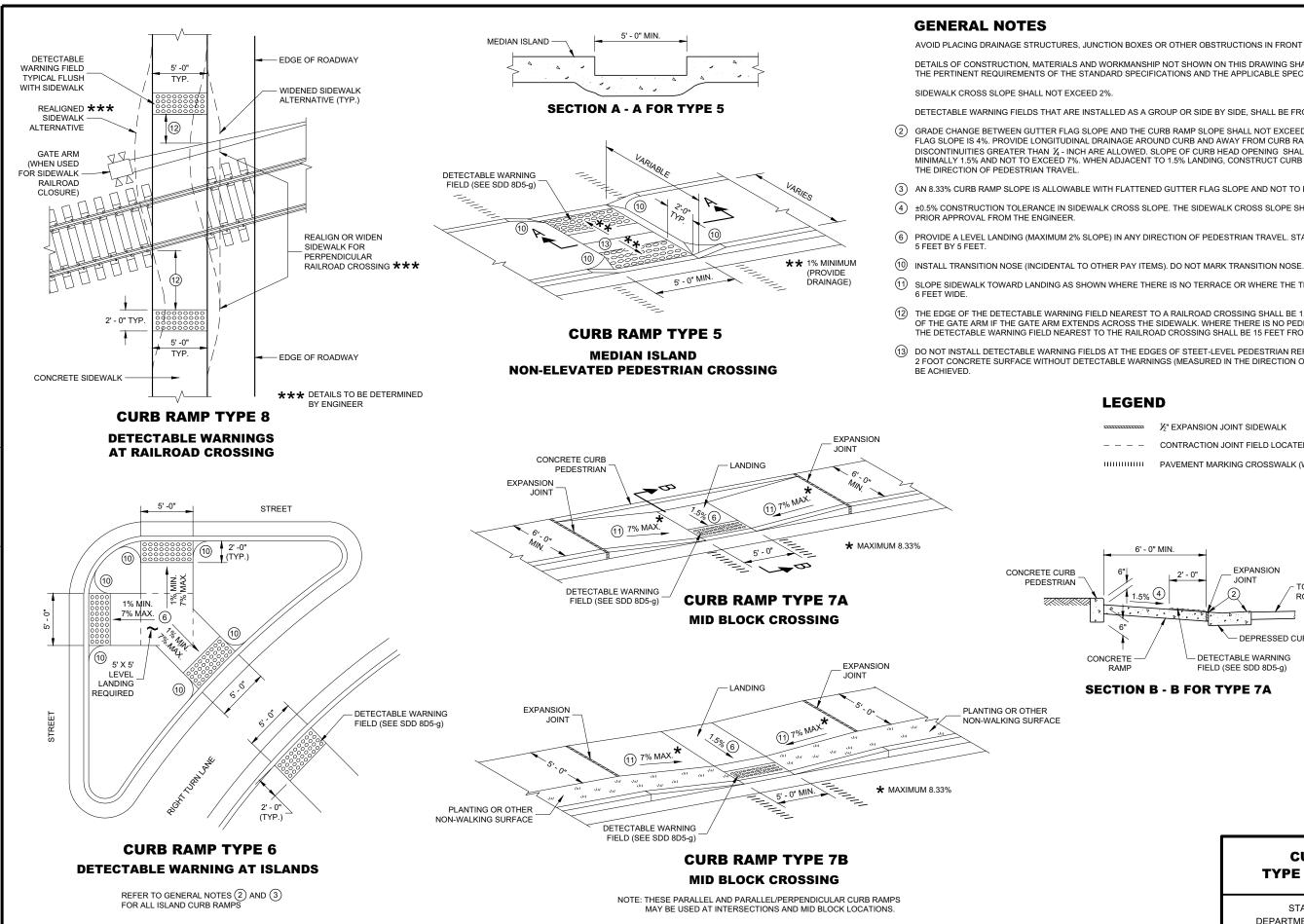
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# TYPE 4B AND 4B1

DEPARTMENT OF TRANSPORTATION

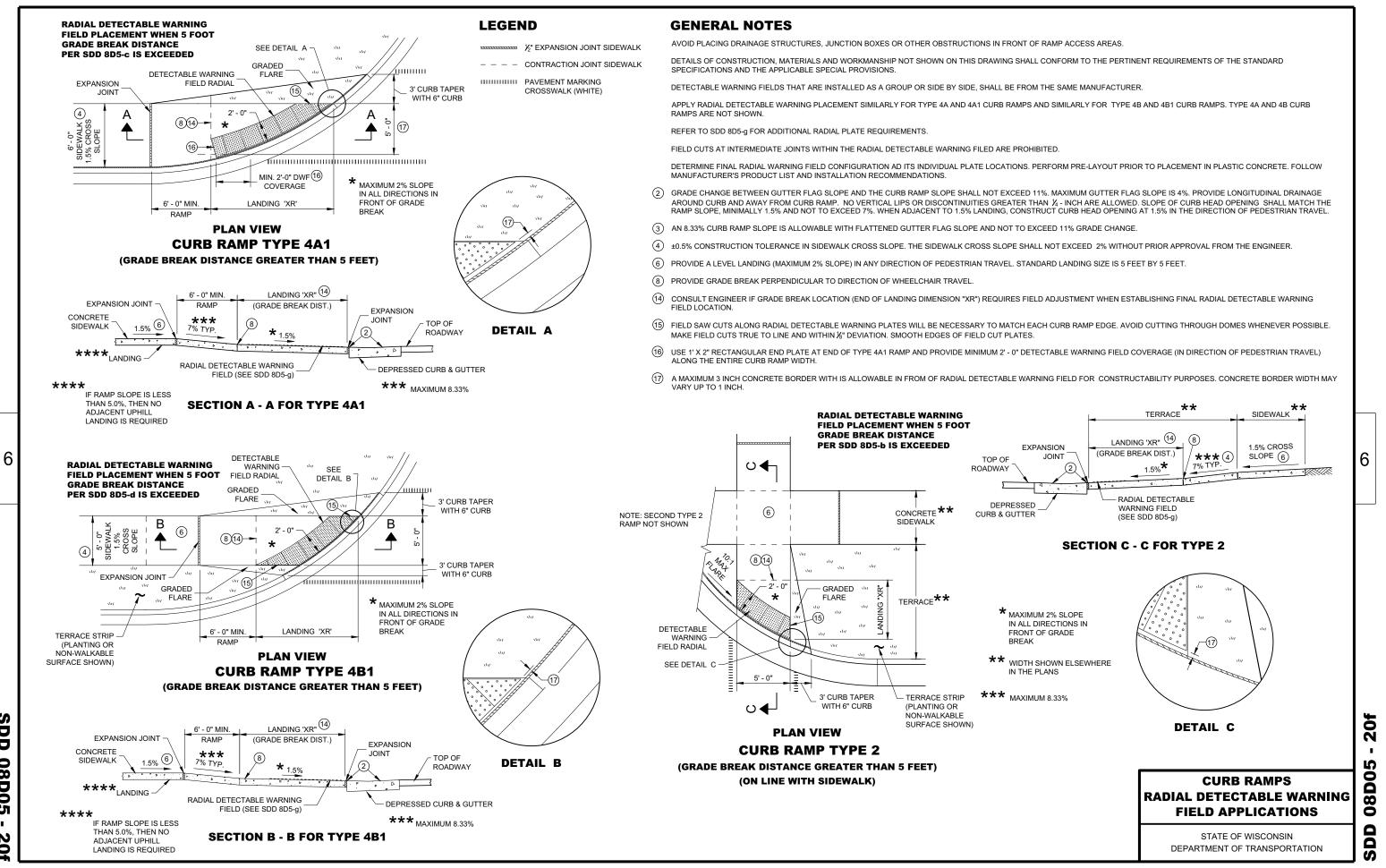


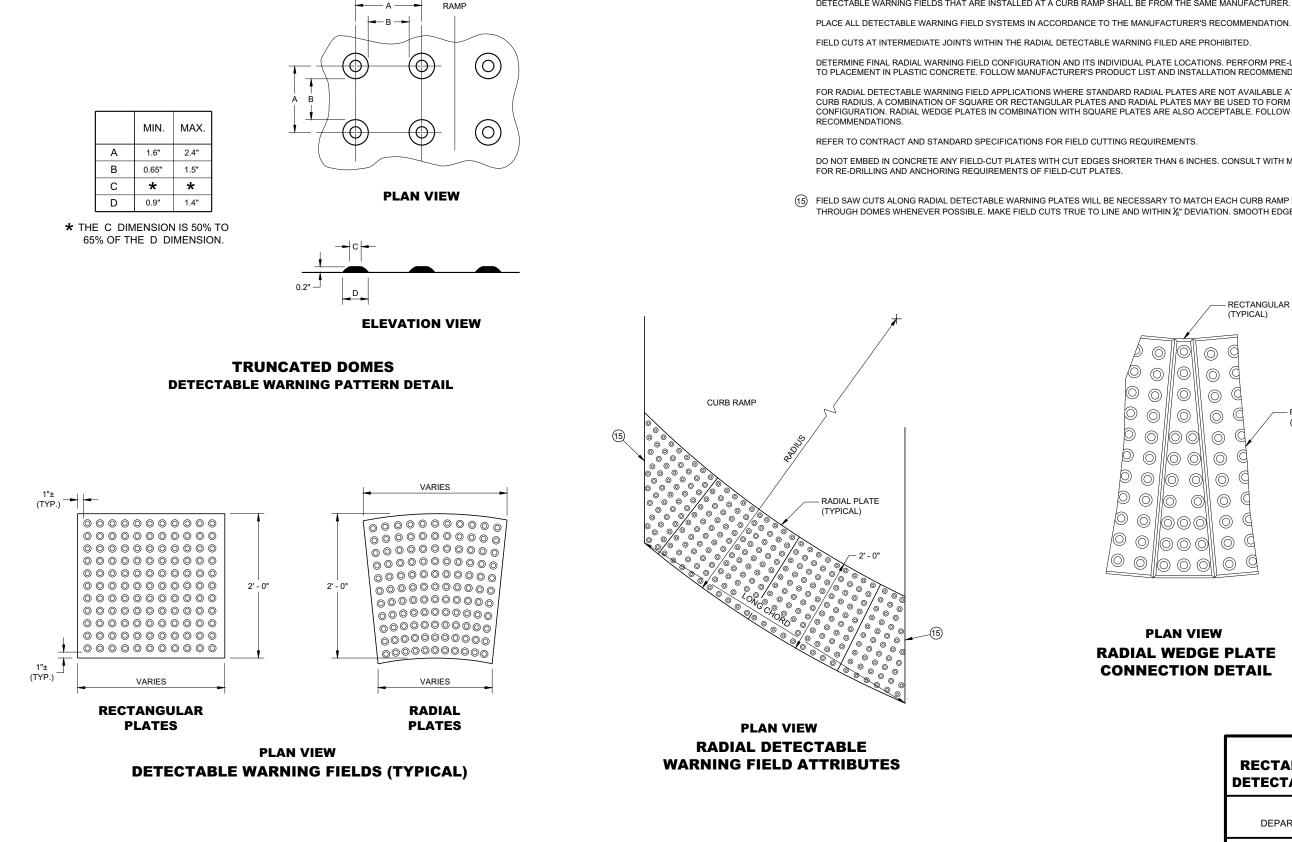
**SDD 08D05** N 0

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AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS. DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS. DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER. (2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN  $\frac{1}{4}$  - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN (3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE. (4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT (6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET. (1) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN (12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ±0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL (13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STEET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2 FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT LEGEND ½" EXPANSION JOINT SIDEWALK CONTRACTION JOINT FIELD LOCATED PAVEMENT MARKING CROSSWALK (WHITE) ..... 6 6' - 0" MIN EXPANSION JOINT TOP OF 1.5% (4) ROADWAY DEPRESSED CURB & GUTTER - DETECTABLE WARNING FIELD (SEE SDD 8D5-g) RAMP **SECTION B - B FOR TYPE 7A** 0 Ň . S 08D0 **CURB RAMPS TYPE 5, 6, 7A, 7B & 8** STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION ົ





DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

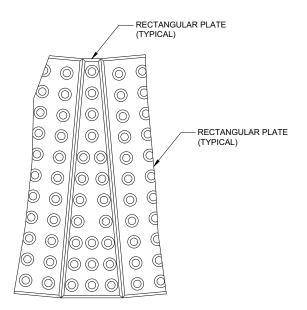
**GENERAL NOTES** 

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN X<sup>®</sup> DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

**SDD 08D05** 20g

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- DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.
- DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.
- FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S



## **PLAN VIEW RADIAL WEDGE PLATE CONNECTION DETAIL**

## **CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2019 DATE

/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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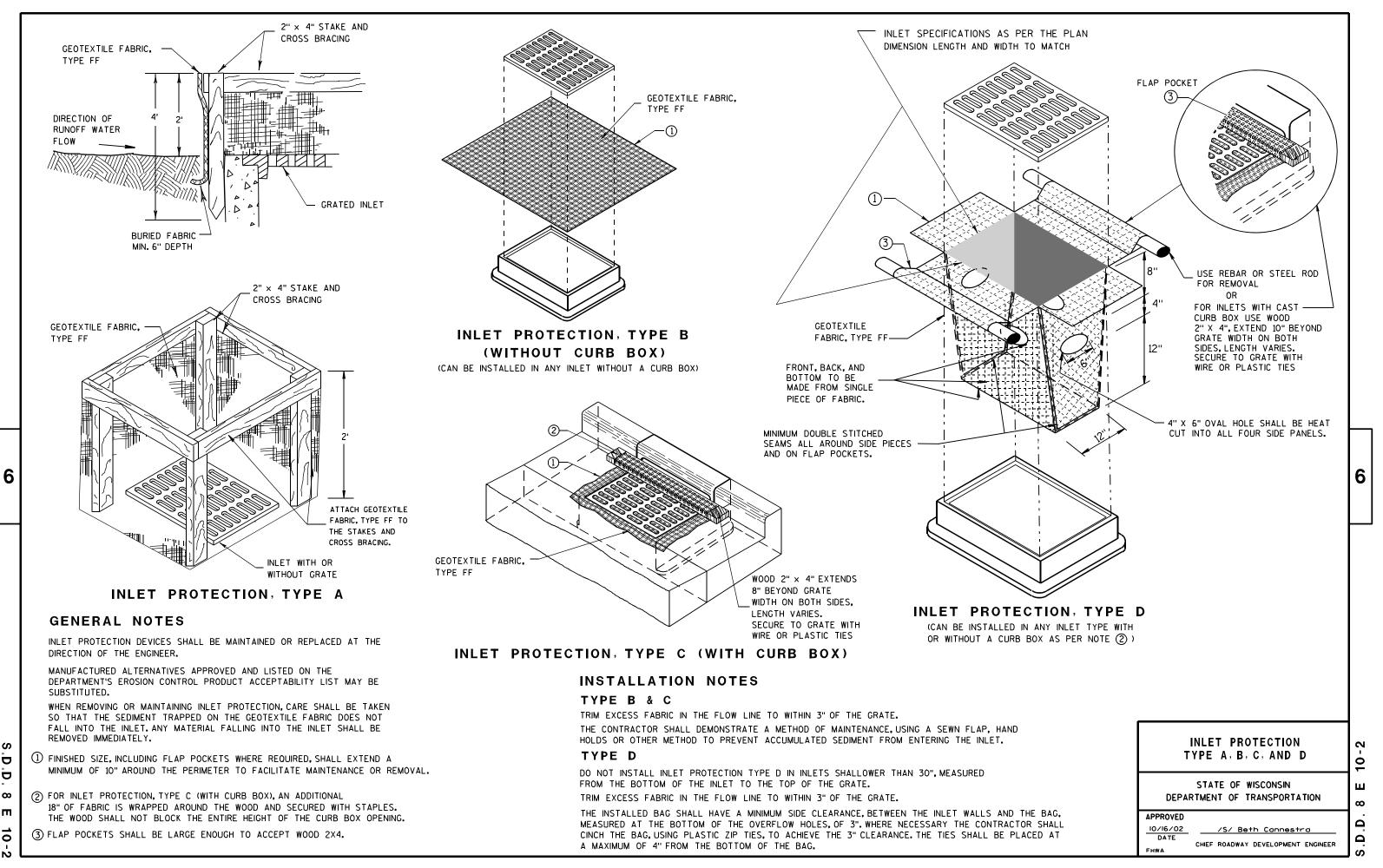
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## **GENERAL NOTES**

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

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.

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.

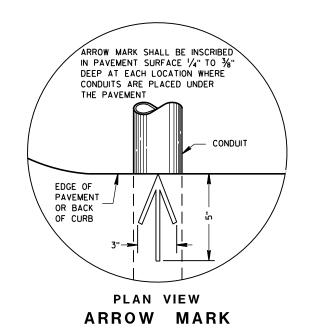
CONDUIT. (SEE NEC 347.5)

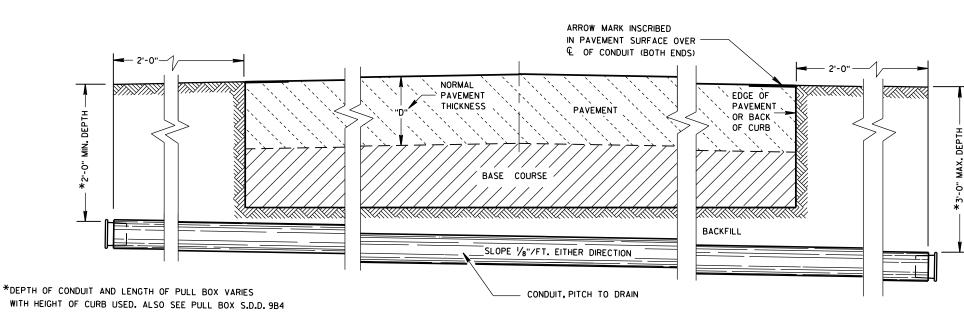
WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

ATTACHED.

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.).

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.





SIDE ELEVATION DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

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

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM

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

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC

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

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

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## CONDUIT

## STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED March, 2017 DATE

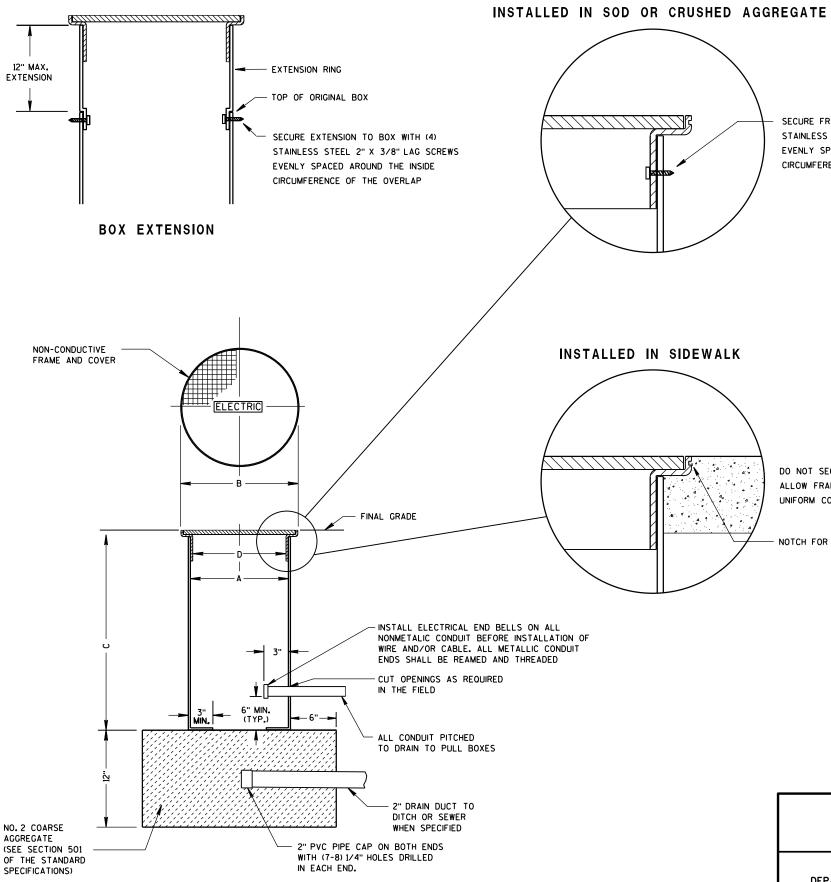
/S/ Ahmet Demirbilek STATE ELECTRICAL ENGINEER

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## TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

DIMENSION IN INCHES		NON-CONDUCTIVE PULL BOX			
BOX DIAMETER ** (INSIDE)	A	24	24		
BOX OVERALL OUTSIDE DIAMETER	в	27	27		
BOX LENGTH		36	42		
FRAME OPENING D		22 1/2	22 1/2		
WEIGHT IN POUNDS *					
COVER		50	50		
BOX ONLY		75	85		

- \* THE ACTUAL WEIGHT OF THE COVER OR BOX ONLY MAY VARY NOT TO EXCEED 100 LBS INDIVIDUALLY.
- \*\* DIAMETER VARIES FROM TOP TO BOTTOM WITH THE DIAMETER LARGER AT THE BOTTOM TO PREVENT FROST HEAVE



## NON-CONDUCTIVE PULL BOX

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## GENERAL NOTES

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

ALL BOXES, FRAMES AND COVERS SHALL BE SUITABLE FOR TIER 15 LOADING AS SPECIFIED IN ANSI/SCTE 77.

PROVIDE AN OPENING FOR TOOL ASSISTED COVER REMOVAL NOT LARGE ENOUGH TO PERMIT PASSAGE OF A SPHERE MORE THAN 1/2" DIAMETER

ENSURE COVER SURFACE IS SKID RESISTANT WITH A COEFFICIENT OF FRICTION OF AT LEAST 0.5 AND VERTICAL SURFACE DICONTINUITIES LESS THAN 1/4". COVER SHALL BE MAGNETICALLY LOCATABLE.

BOXES AND EXTENSIONS ARE TRIMMABLE FOR CUSTOM LENGTHS. TRIMMED PIECES SHALL MAINTAIN A UNIFORM LENGTH.

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

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

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

ENTIRE BOX MUST BE CONSTRUCTED OF NON-CONDUCTIVE MATERIALS WITH THE EXCEPTION OF STAINLESS STEEL FASTENERS AND MAGNETIC LOCATABLE DEVICE.

WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE

LABEL ON COVER SHALL READ "ELECTRIC" FOR SIGNAL AND LIGHTING SYSTEMS, "WISDOT ITS" FOR COMMUNICATIONS AND ITS EQUIPMENT SYSTEMS.

SECURE FRAME TO BOX WITH (4) STAINLESS STEEL 2" X 3/8" LAG SCREWS EVENLY SPACED AROUND THE INSIDE CIRCUMFERENCE OF THE FRAME

DO NOT SECURE FRAME TO BOX ALLOW FRAME ADHESION TO SIDEWALK FOR UNIFORM COVER/PAVEMENT VERTICLE MOVEMENT

NOTCH FOR PAVEMENT ADHESION

## PULL BOX Non-conductive

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2017 DATE

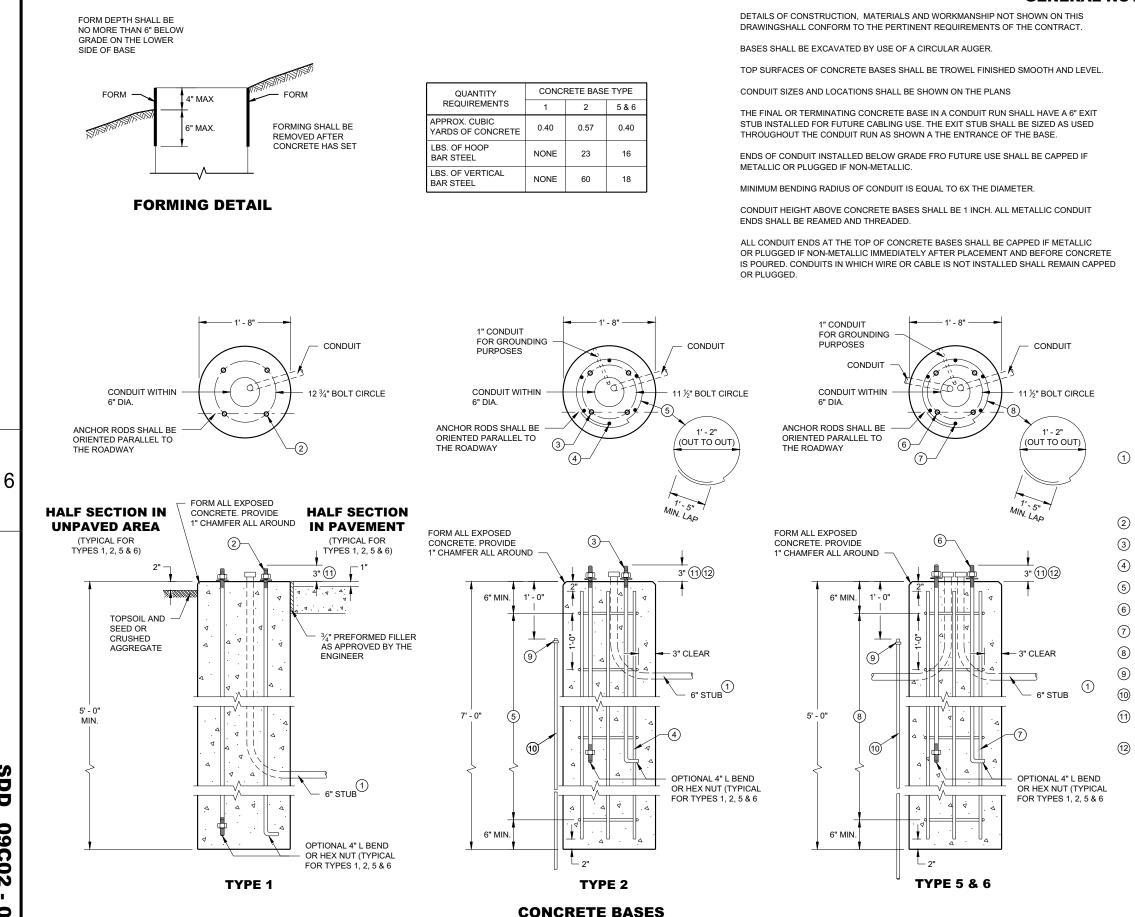
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/S/ Ahmet Demirbilek STATE ELECTRICAL ENGINEER 6

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## **GENERAL NOTES**



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BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL

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

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

(2) (4) 1" DIA. X 3' - 6" ANCHOR RODS.

(4) 1" DIA. X 5' - 0" ANCHOR RODS.

(6) NO. 6 X 6' - 8" BAR STEEL REINFORCEMENT.

(7) NO. 4 X 5' - 1" BAR STEEL REINFORCEMENT @ 1' - 0" C - C.

(4) 1" DIA. X 3' - 6" ANCHOR RODS.

(6) NO. 4 X 4' - 8" BAR STEEL REINFORCEMENT.

(8) (5) NO. 4 X 5' - 1" BAR STELL REINFORCEMENT @ 1' - 0" C -C.

EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR

(10) 5/8" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

ANY ANCHOR ROD PROJECTION SHORTER THAN 2 3/7 OR LONGER THAN 3 1/7 SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

(12) FOR NON - BREAKAWAY INSTALLATIONS,  $4\frac{1}{2}$ " ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

## **CONCRETE BASES TYPES 1, 2, 5, & 6**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2019 DATE

/S/ Ahmet Demirbile STATE ELECTRICAL ENGINEER 6

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

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE I" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATIONS.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO \$4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A  $\frac{1}{4}$ " - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER -THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

1'-1" NOMINAL

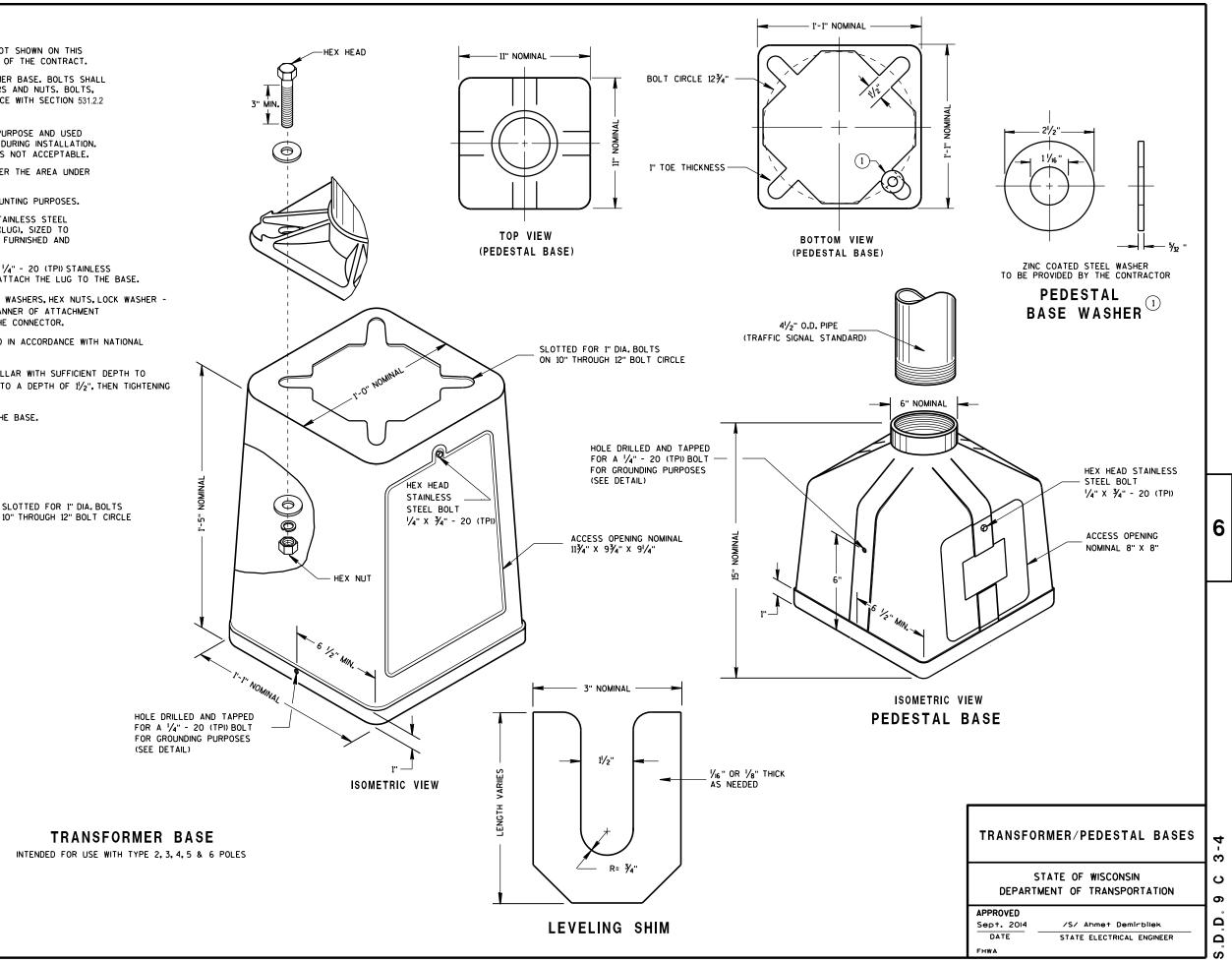
BOTTOM VIEW

TYPICAL MECHANICAL

CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

(TRANSFORMER BASE)



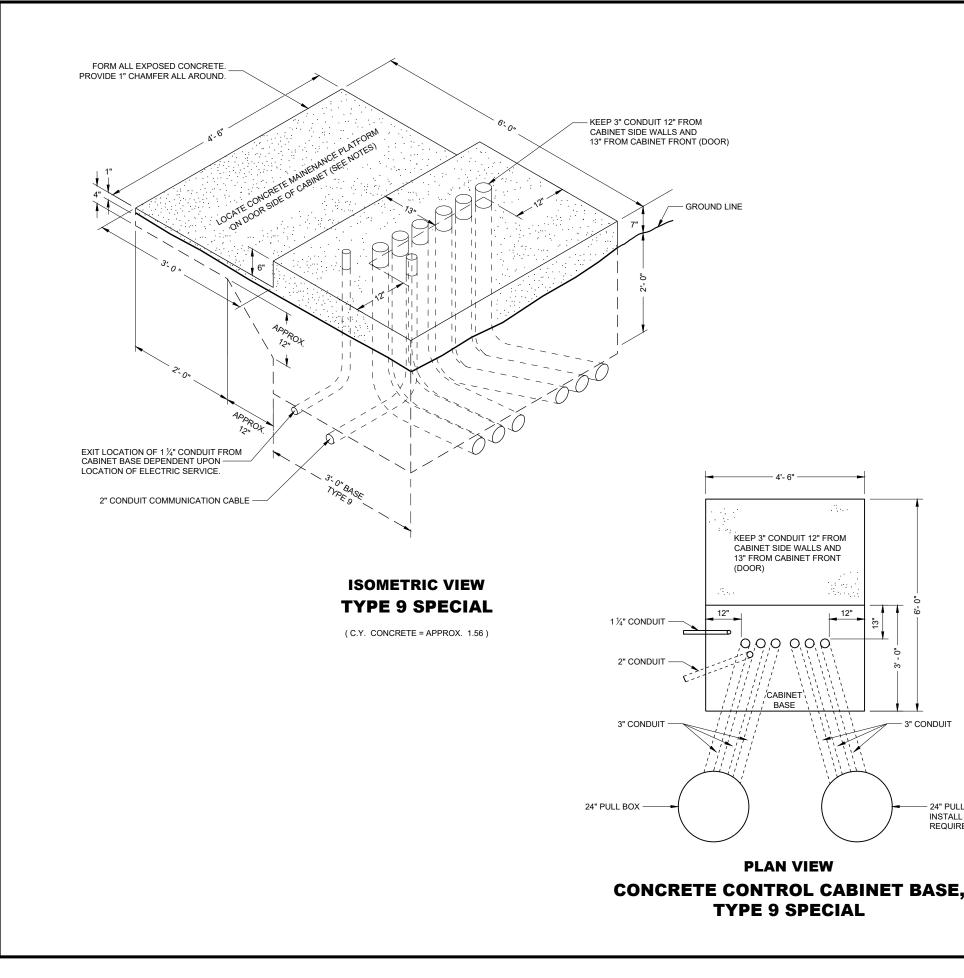
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TOP

BOTTOM

# SDD 09C06 Concrete Control Cabinet Base, Type 9, Special



### **GENERAL NOTES**

36 INCHES MAXIMUM

MINIMUM AND 36 INCHES MAXIMUM

ENGINEER

INSTALLED.

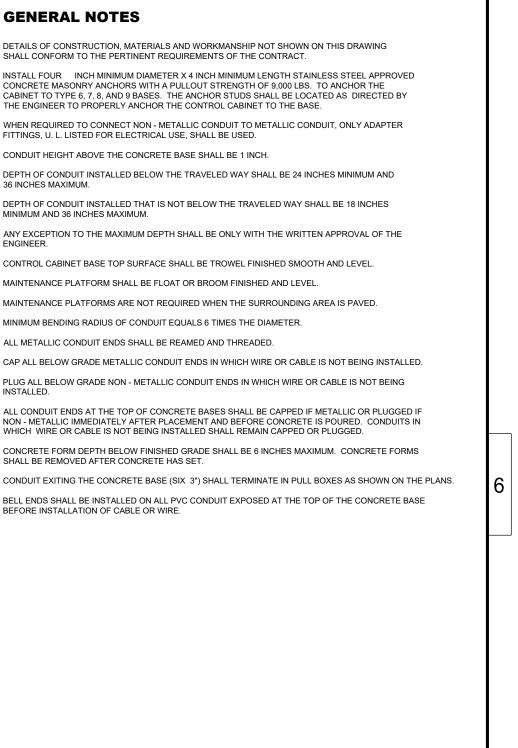
SHALL BE REMOVED AFTER CONCRETE HAS SET.

BEFORE INSTALLATION OF CABLE OR WIRE

24" PULL BOX

INSTALL NUMBER OF CONDUITS REQUIRED BY PLAN.

6



### **CONCRETE CONTROL** CABINET BASE **TYPE 9, SPECIAL**

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**C06** 

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED September 2014 DATE

/S/ Ahmet Demerbilek STATE ELECTRICAL ENGINEER

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

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING. A STEEL CASING OR CORRUGATED METAL PIPE IS ALLOWED TO REMAIN. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BASE IN LAYERS OF ONE FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

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

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 TIMES THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4" INCHES, ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NON-METALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

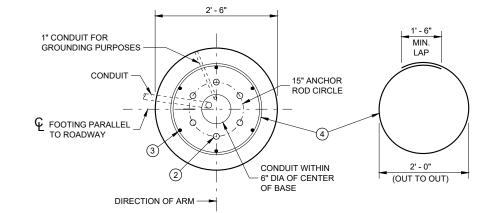
THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES. LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

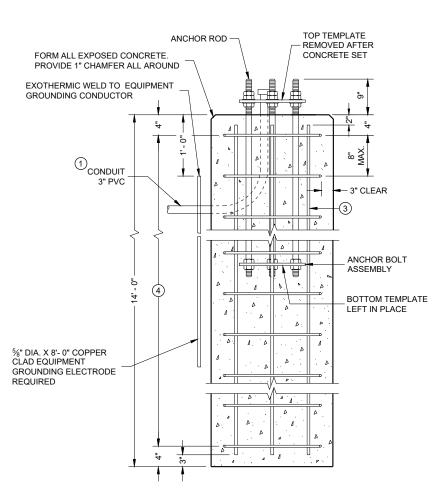
THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

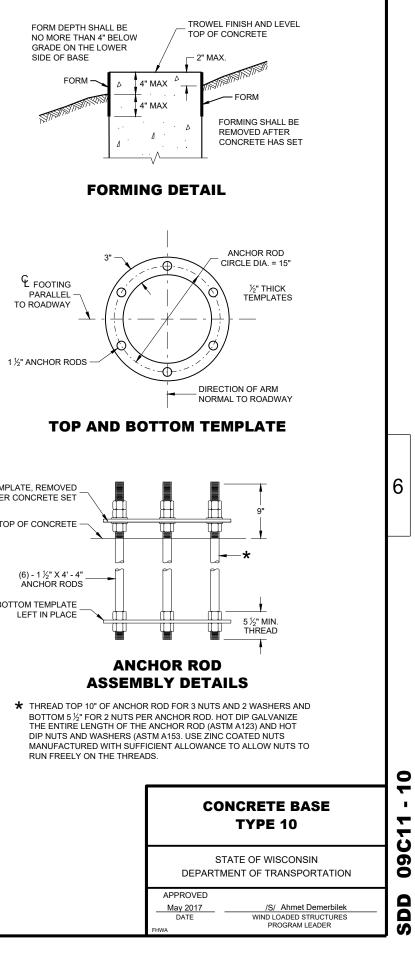
- THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE 1 TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER RUN) EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.
- (2) (6) 1 ½ DIA. X 4' 4" ANCHOR RODS
- (3) (6) NO. 6 X 13' 7" BAR STEEL REINFORCEMENT.
- (4) (21) NO. 5 X 7'-10" BAR STEEL REINFORCEMENT @ 8" MAX. C-C.

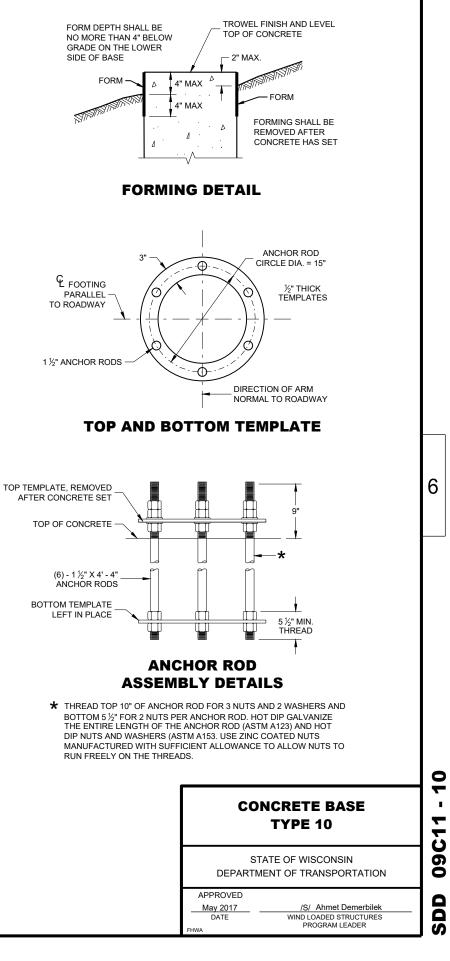
CONCRETE MASONRY. ..fc = 3,500 p.s.i HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60. ..fy = 60,000 p.s.i. ANCHOR RODS, ASTM F1554 GRADE 55 ( IN ACCORDANCE ..fy = 55,000 p.s.i. WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATION) TEMPLATES, ASTM A709, GRADE 36.. ..fy = 36,000 p.s.i.

QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	2.5
LBS. OF HOOP BAR STEEL	172
LBS. OF VERTICAL BAR STEEL	122









### **CONCRETE BASE, TYPE 10** (FOR TYPE 9, TYPE 10 AND OVER HEIGHT (OH) POLES)

TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION. SEE SDD 9C13 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.

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

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

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF BASE REQUIRES A DEEP FORM BÉCAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING. A STEEL CASING OR CORRUGATED METAL PIPE IS ALLOWED TO REMAIN. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BASE IN LAYERS OF ONE FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

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

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

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR RODS STICK OUT ABOVE TOP OF CONCRETE FOOTING BASE PER THIS SHEET.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

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

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

FORM ALL EXPOSED CONCRETE CORNERS WITH 1" CHAMFER ALL AROUND. TOP OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 TIMES THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4  $\frac{1}{2}$ " INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NON-METALLIC CONDUIT SHALL HAVE BELL ENDS INSTALLED. ALL CONDUIT SHALL SLOPE TO PULL BOX

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

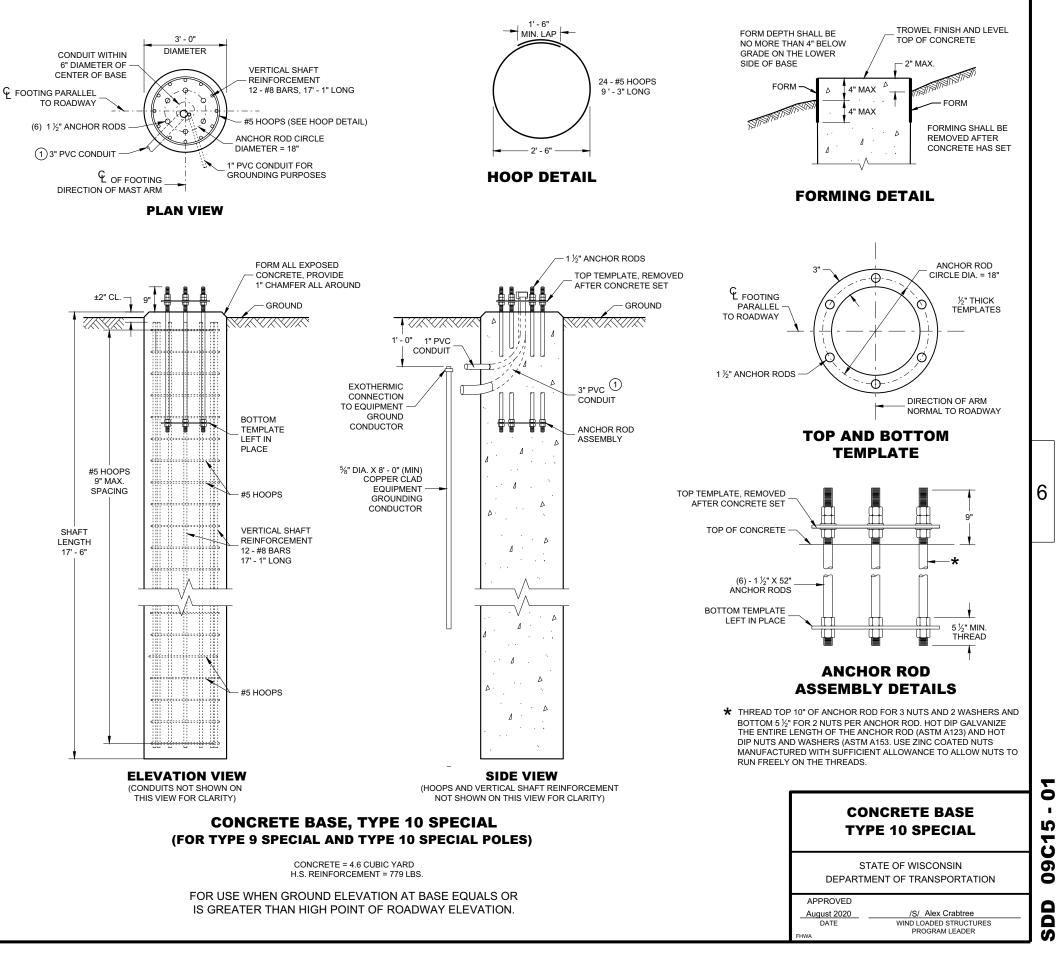
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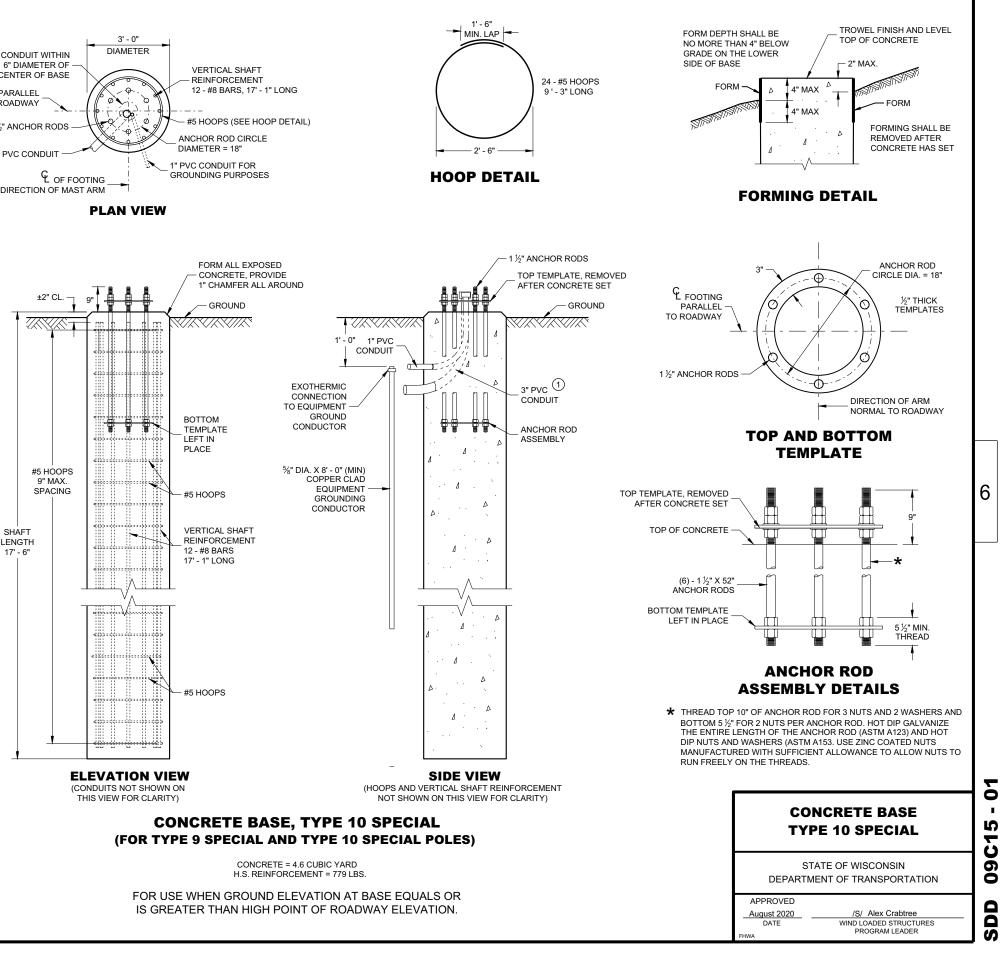
THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

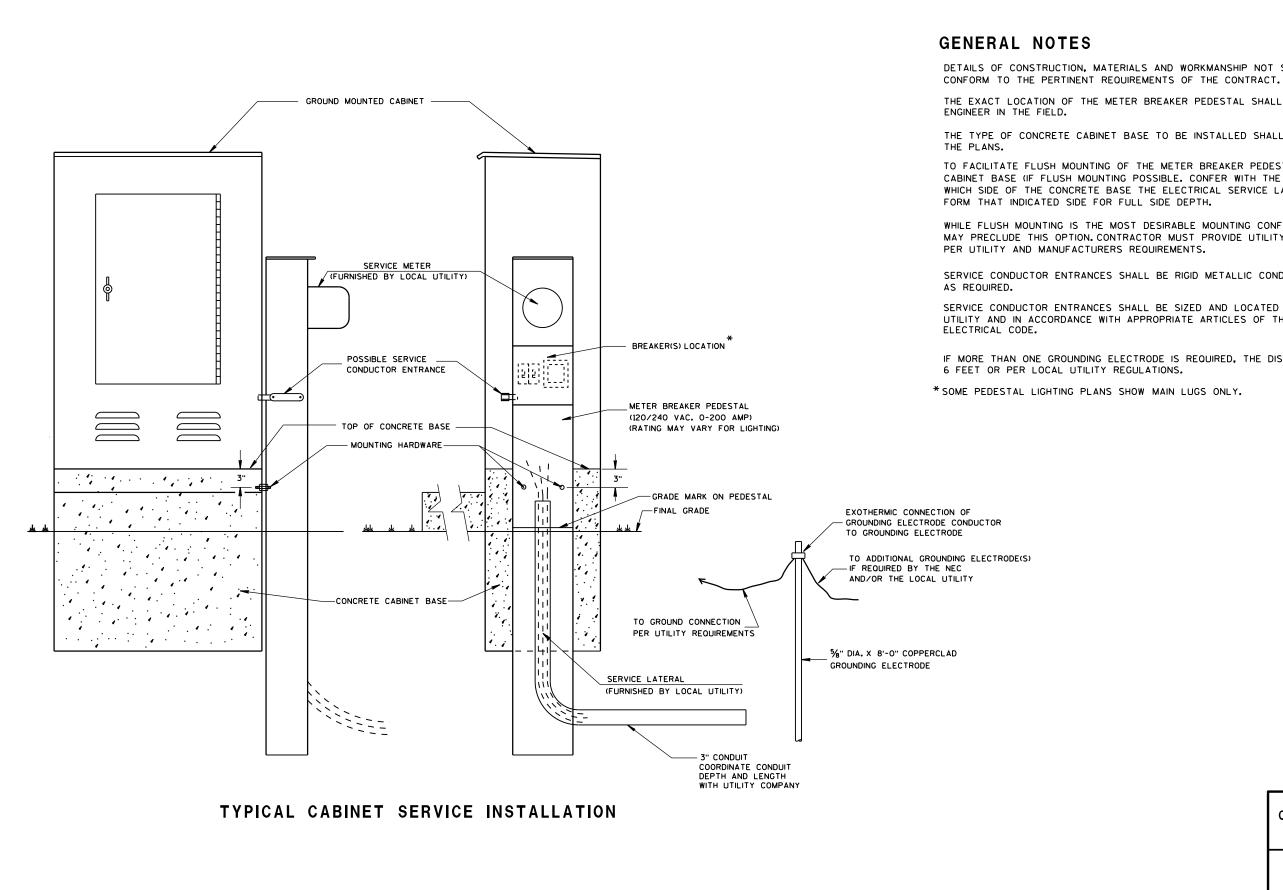
THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN A THE ENTRANCE OF THE BASE.

1 THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER RUN) EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

CONCRETE MASONRY	fc = 3,500 p.s.i
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy = 60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 ( IN ACCORDANCE	fy = 55,000 p.s.i.
WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATION)	
TEMPLATES, ASTM A709, GRADE 36	fy = 36,000 p.s.i.







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DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE

CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED Sept. 2014 DATE

/S/ Ahmet Demirbilek STATE ELECTRICAL ENGINEER

FHWA

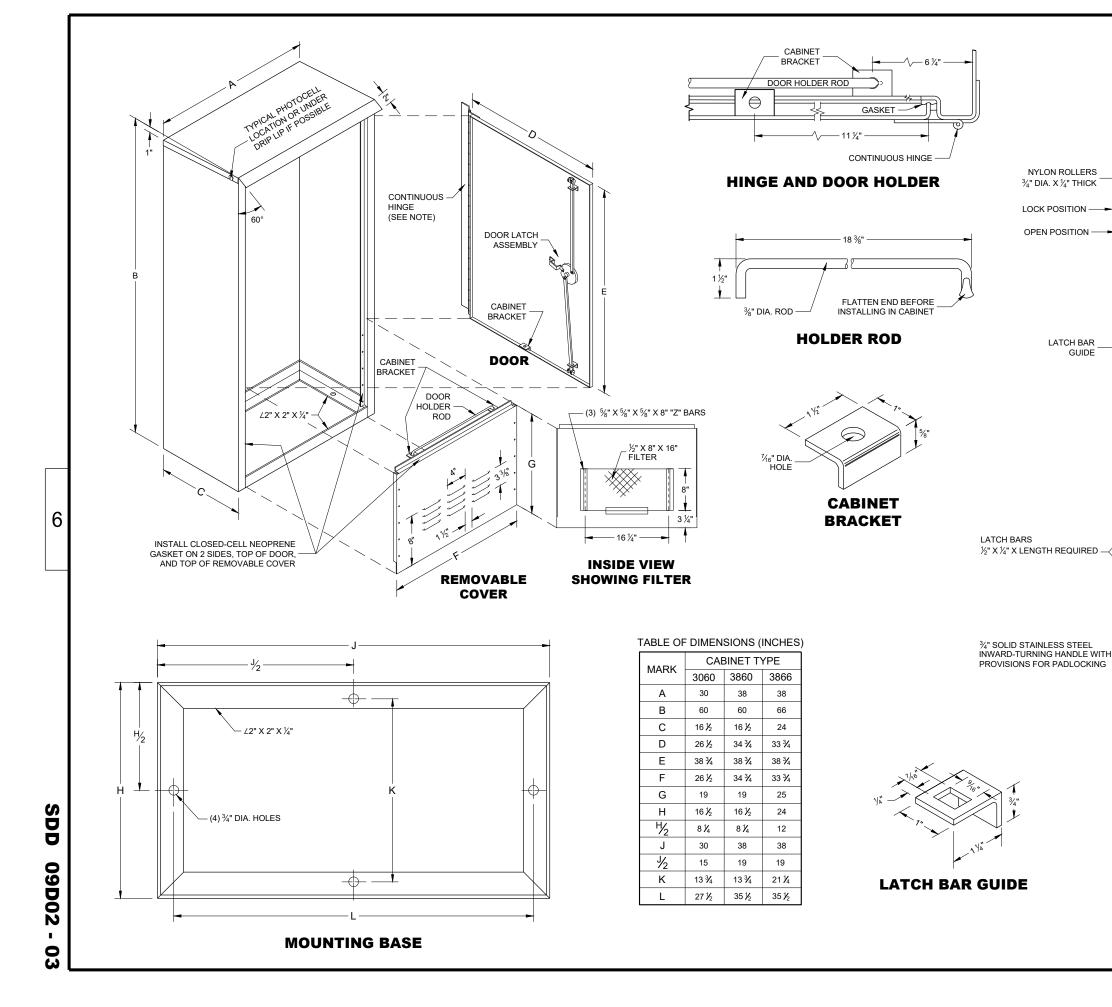
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**SIDE VIEW** 

NYLON ROLLERS

3/4" DIA. X 1/4" THICK

LOCK POSITION

**OPEN POSITION** 

LATCH BAR GUIDE

### **GENERAL NOTES**

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

PRIME WITH PHOSPHATE TREATMENT AND PRIMER.

FINISH EXTERIOR SURFACES WITH RUSTOLEUM #906 SILVER GRAY OR APPROVED EQUAL.

FINISH INTERIOR WITH RUSTOLEUM #2766 HIGH GLOSS WHITE ENAMEL OR APPROVED EQUAL.

ALL SHEET METAL PARTS SHALL BE .125 INCH THICK ALUMINUM.

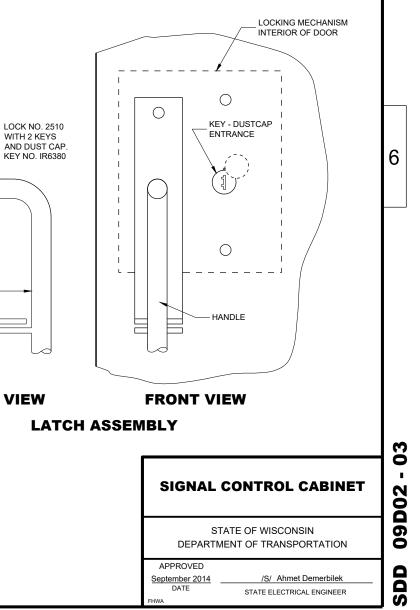
ALL SEAMS SHALL BE CONTINUOUSLY WELDED.

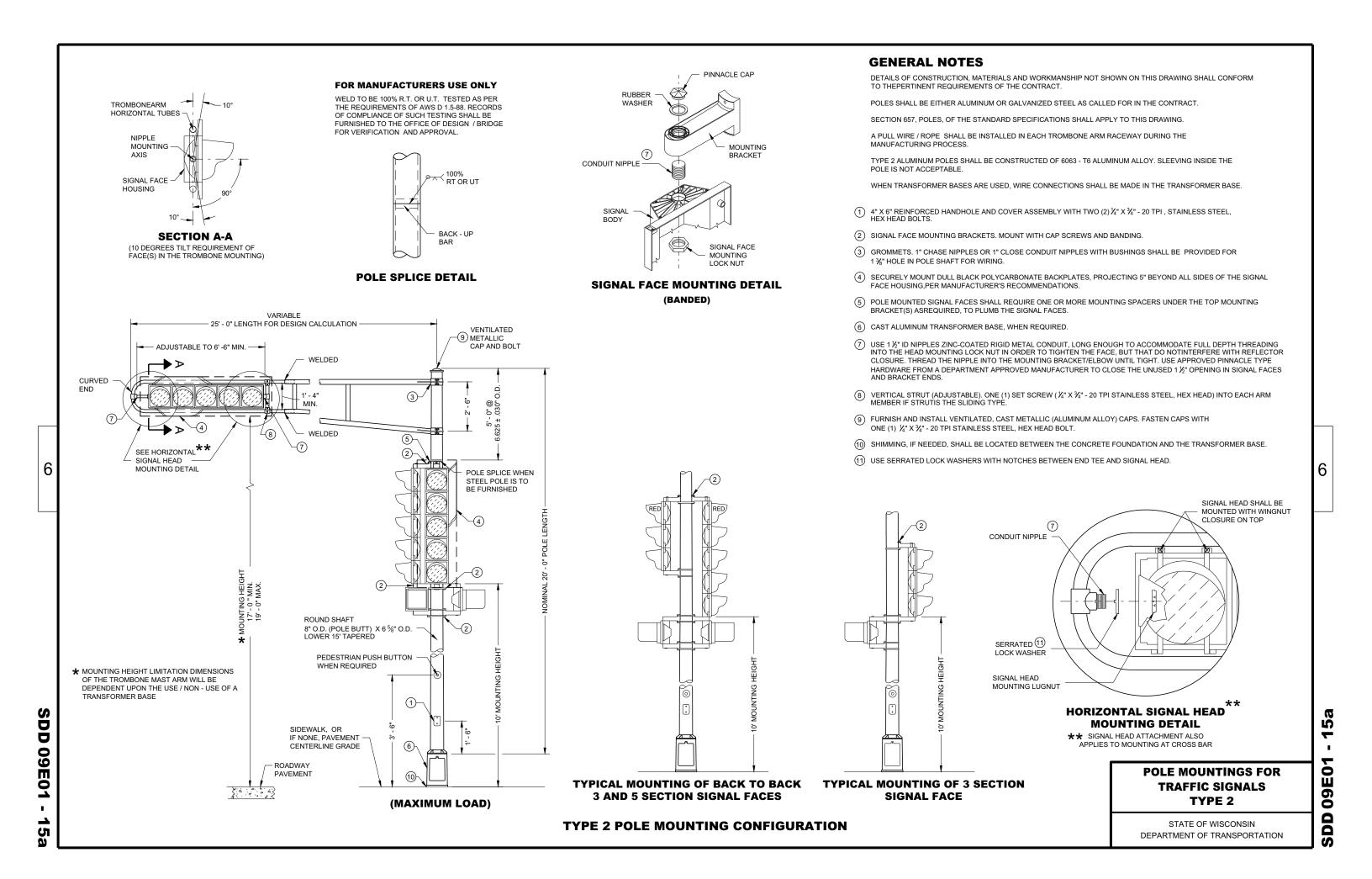
ALUMINUM SHALL BE TYPE 5052-H32.

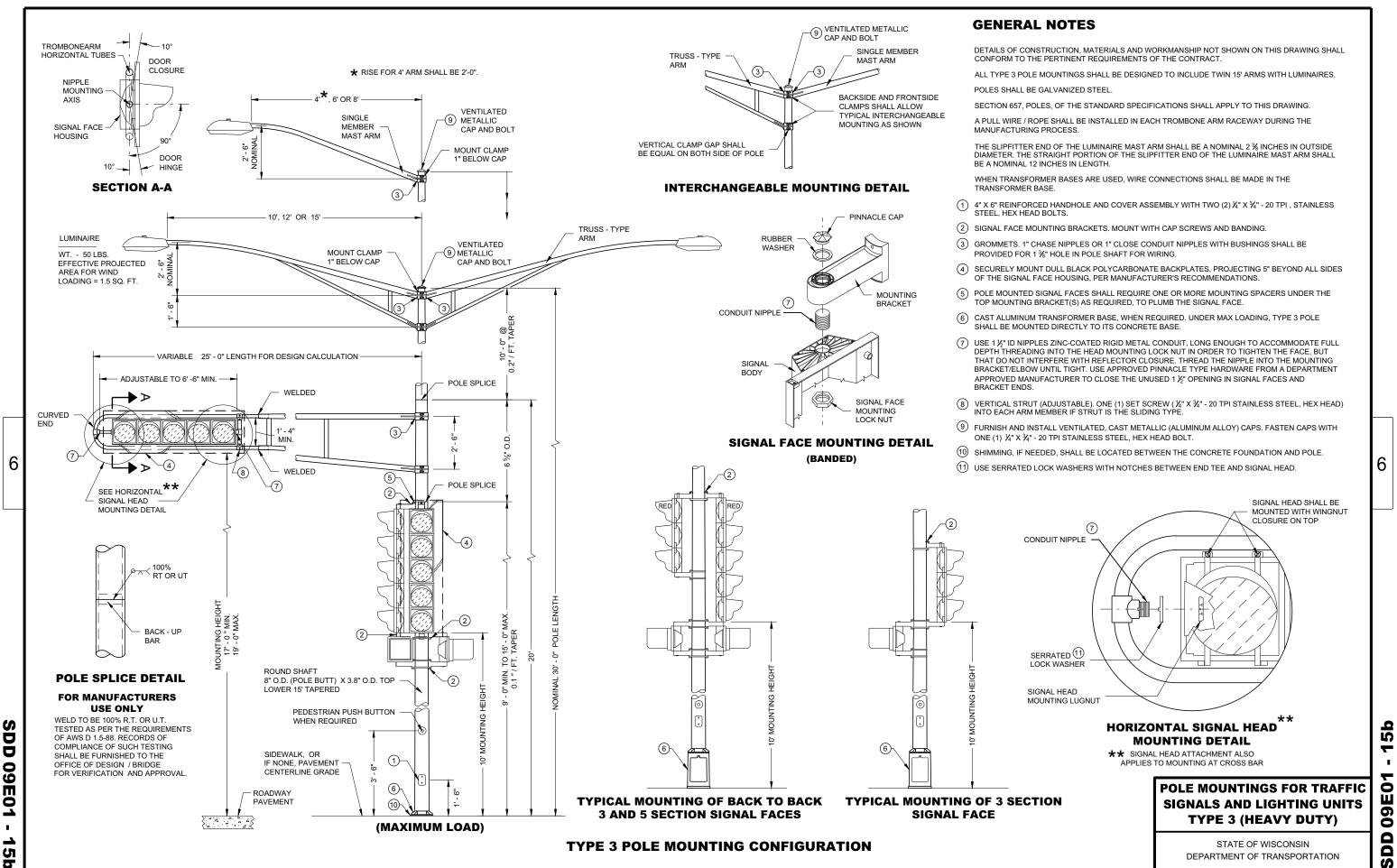
CONTINUOUS HINGE SHALL BE HEAVY GAUGE ALUMINUM WITH ¼" DIAMETER STAINLESS STEEL HINGE PIN. HINGE IS SECURED WITH  $\lambda_{+}^{*}$  X 20 TPI STAINLESS STEEL CARRIAGE BOLTS AND STAINLESS STEEL NYLOCK NUTS.

A SINGLE PHOTOCELL SHALL BE LOCATED ON THE NORTH - NORTHEAST SIDE OF THE CABINET UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISIONS. THE PHOTOCELL SHALL BE PLACED AS SHOWN AND SHALL BE LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST.

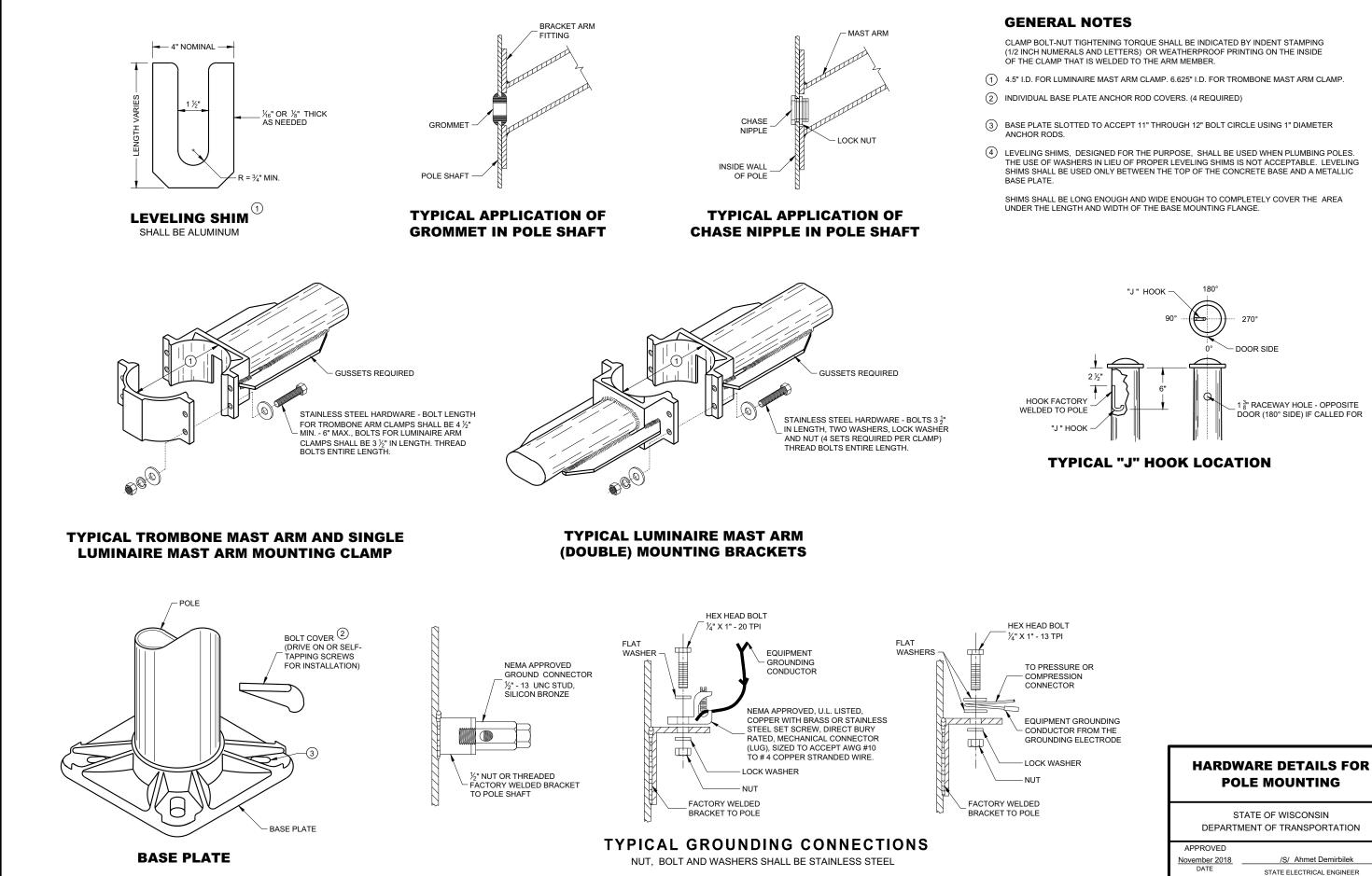
DOOR LATCH ASSEMBLY TO BE PROVIDED WITH THREE-POINT LOCKING MECHANISM.







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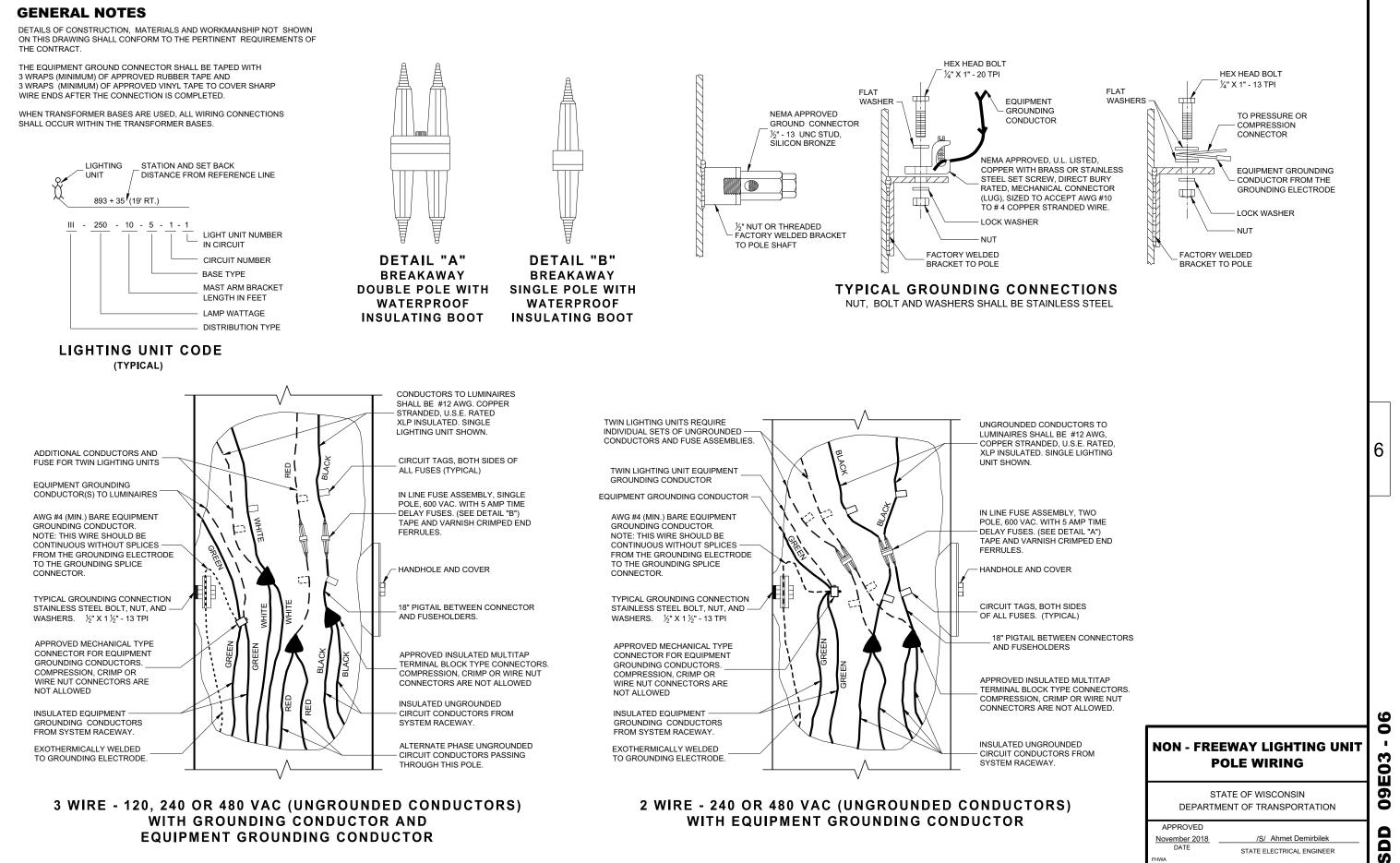
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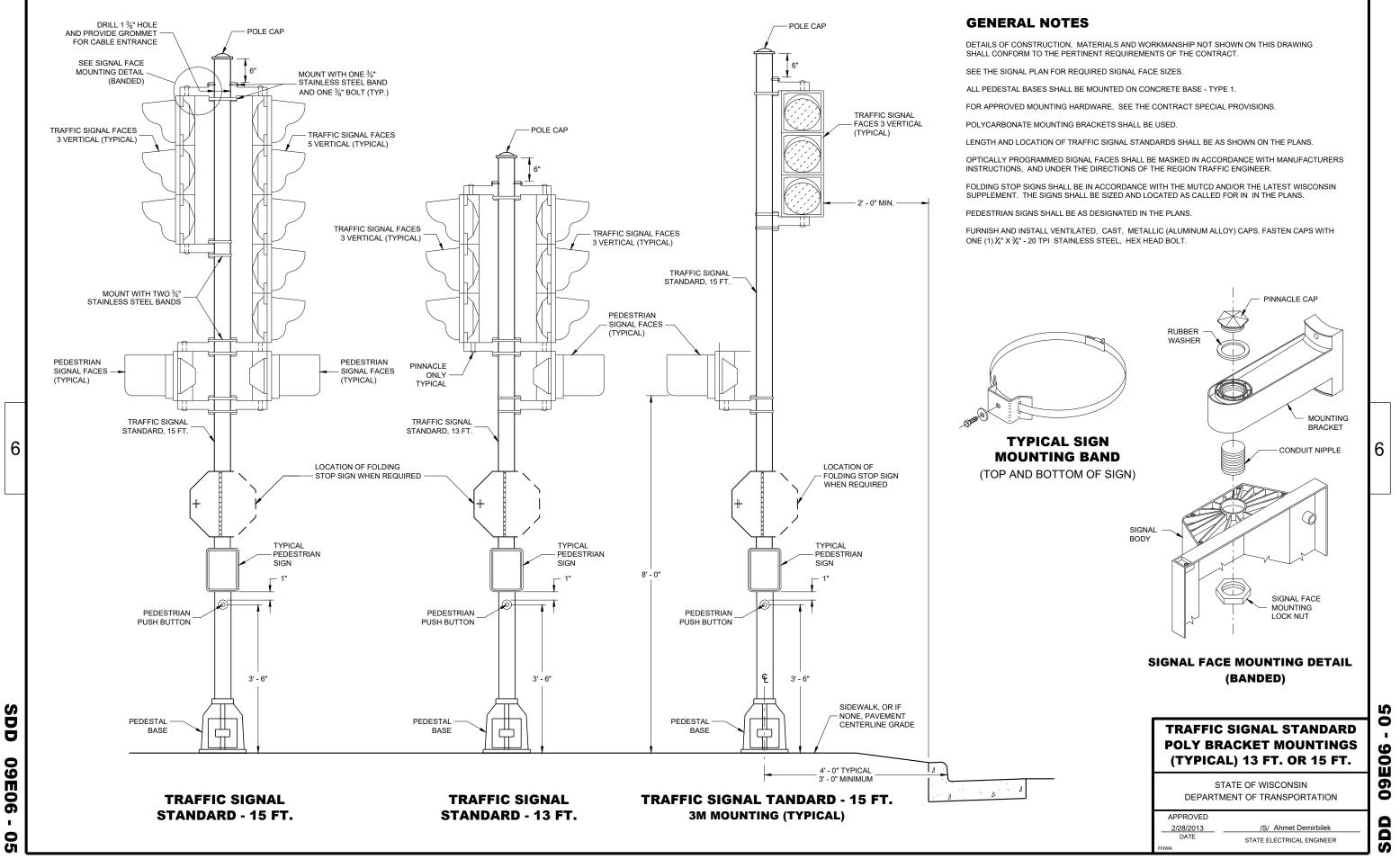
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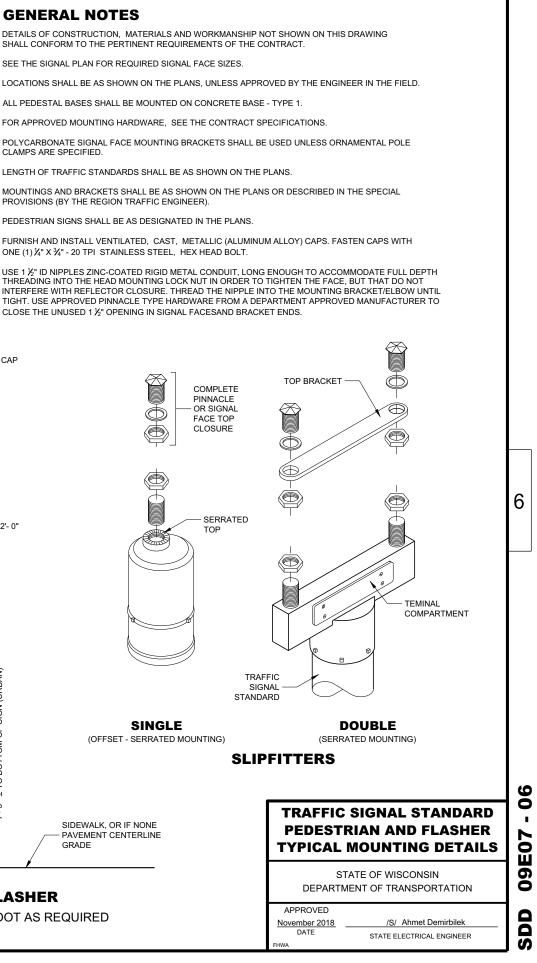
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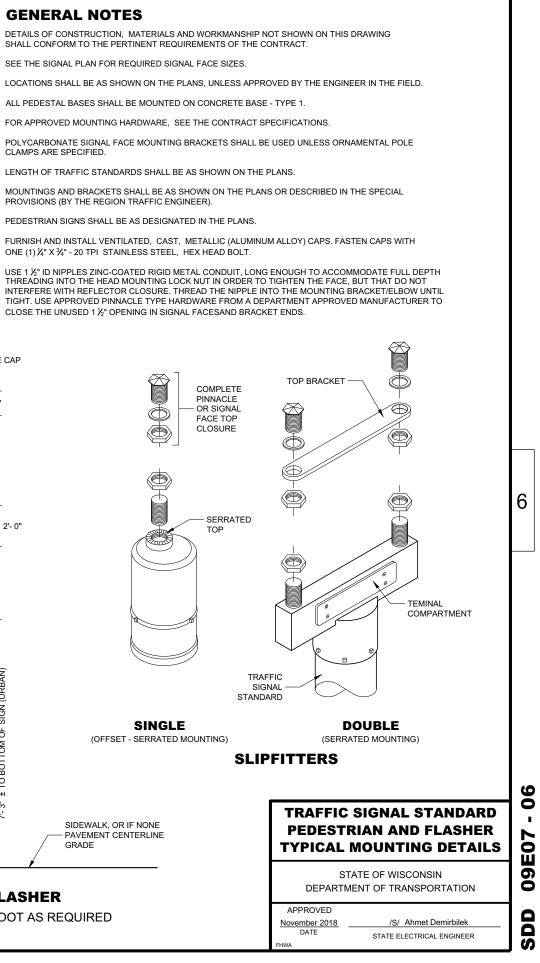
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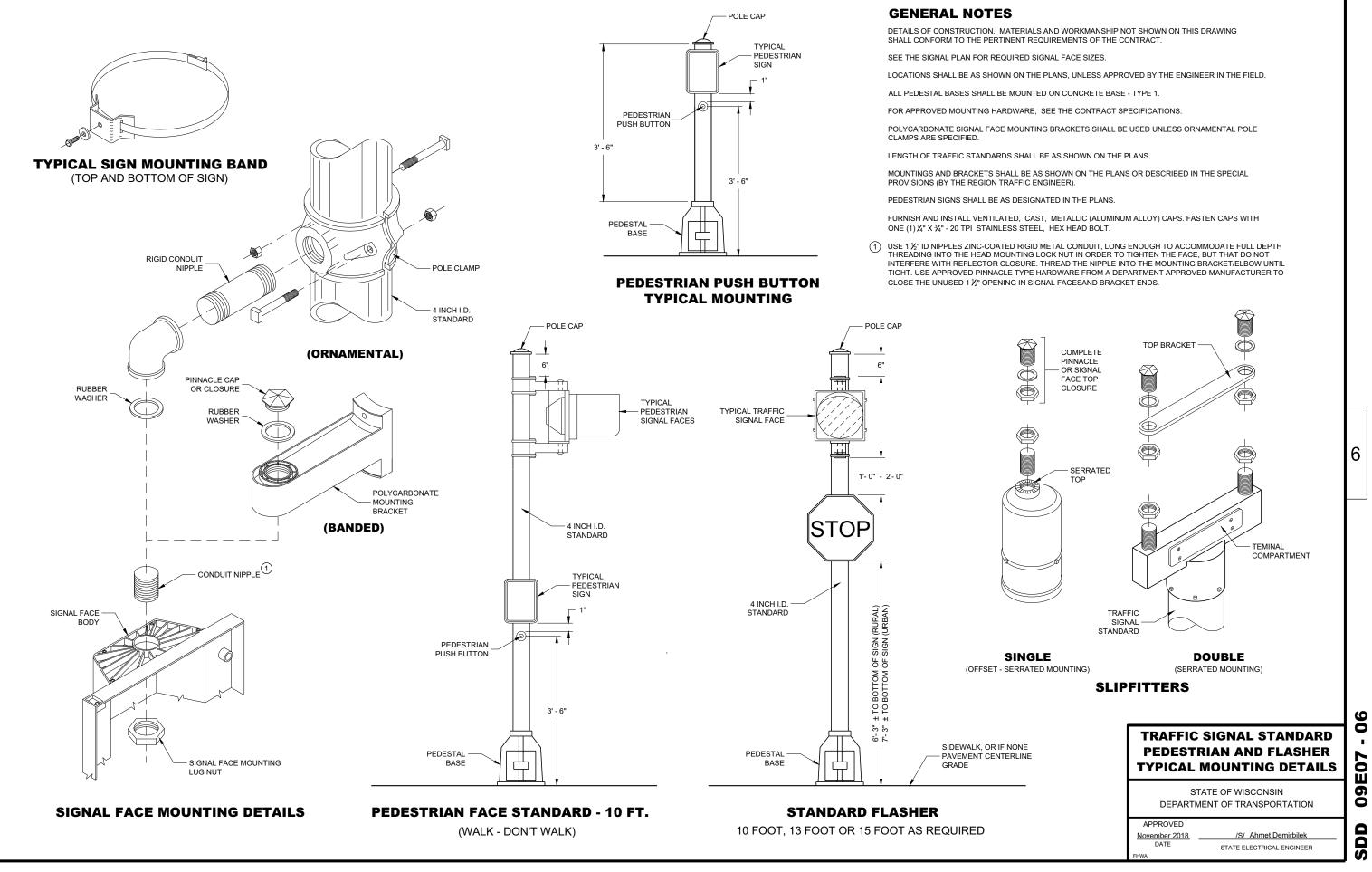
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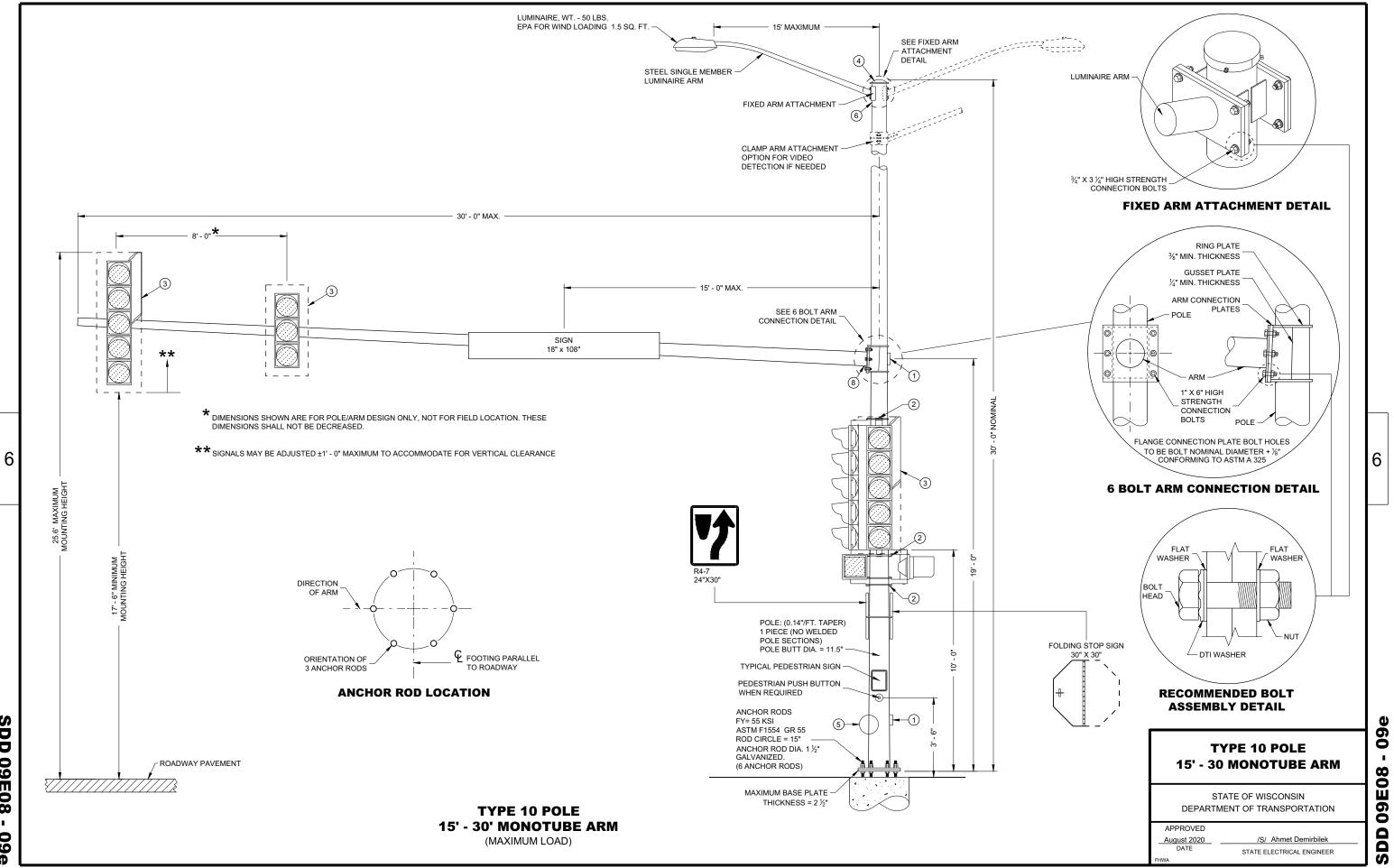


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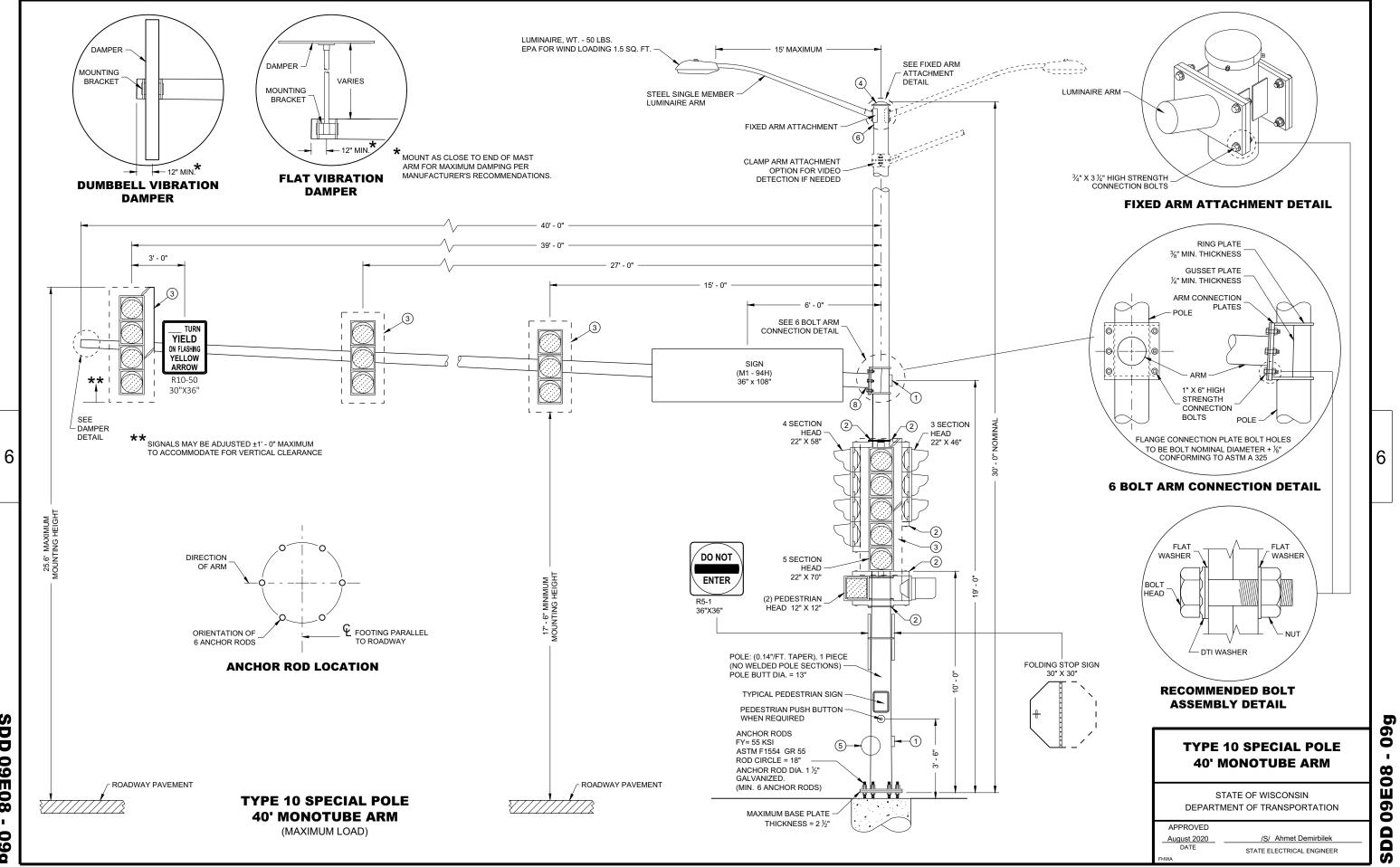




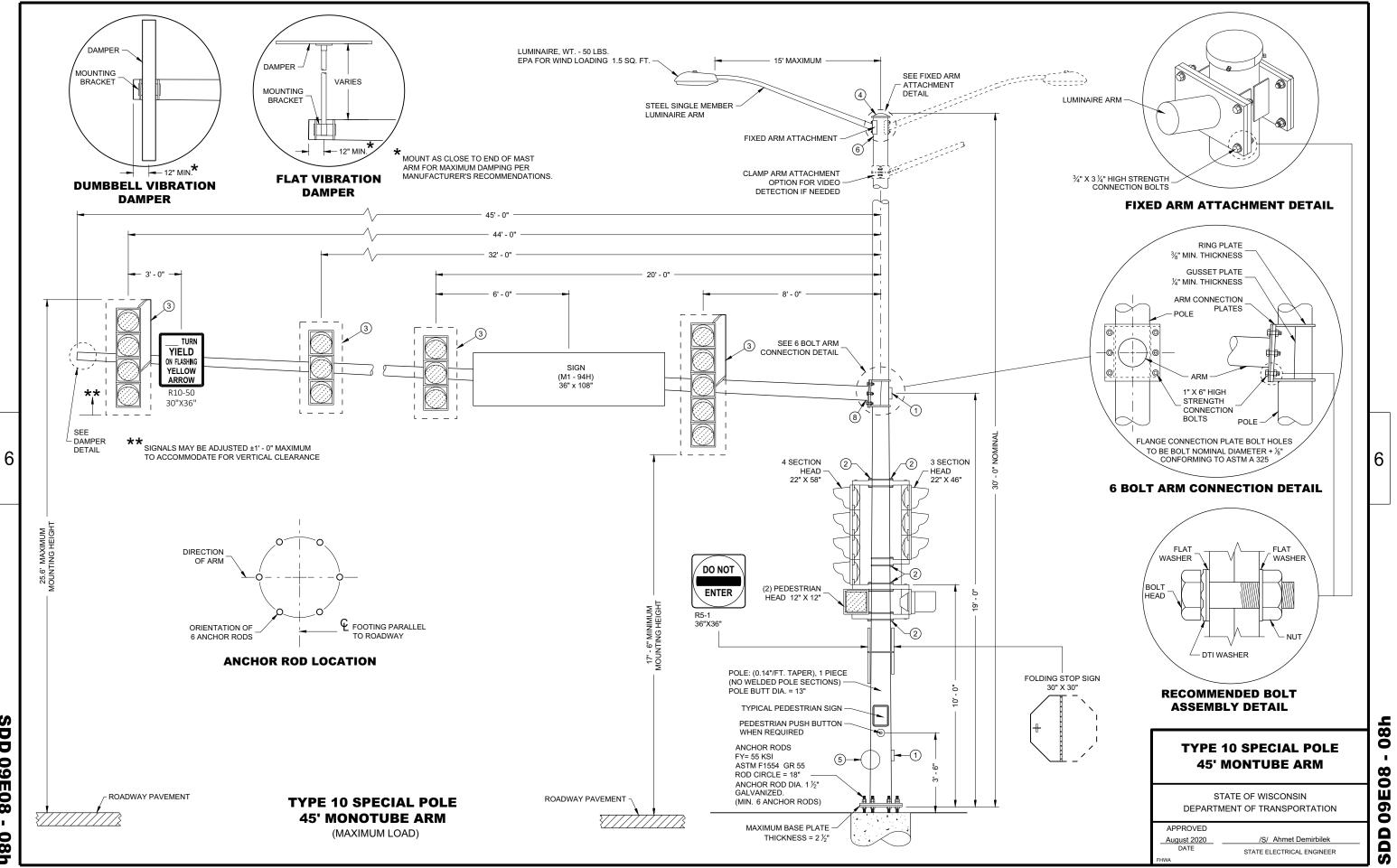




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DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

POLE TYPES 9 AND 10 ARE FOR ARM LENGTHS 15 FOOT TO 30 FOOT.

POLE TYPES 9 SPECIAL AND 10 SPECIAL ARE FOR ARM LENGTHS 35 FOOT, 40 FOOT, AND 45 FOOT.

POLE TYPES 12 AND 13 ARE FOR ARM LENGTHS 35 FOOT TO 55 FOOT.

MONOTUBE POLES AND ARMS SHALL BE GALVANIZED STEEL

RING STIFFENED BUILT UP BOX TYPE OF ATTACHMENT FOR TRAFFIC SIGNAL ARM.

ONE PIECE POLE CONSTRUCTION (NO WELDED POLE SECTIONS).

STANDARD STRAIGHT ARM DESIGN (3% ± RISE).

SECTION 657, POLES OF THE STANDARD SPECIFICATION SHALL APPLY TO THIS DRAWING.

PROVIDE WIREWAY THRU POLE WALL AND ARM CONNECTION PLATES. PROVIDE ROUND, SMOOTH INSIDE SURFACE.

MANUFACTURER'S SUBMITTED POLE DESIGNS AND DRAWINGS SHALL BE SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER AND CERTIFIED AS BEING IN COMPLIANCE WITH THE AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNAL 2015 1ST EDITION (INCLUDING INTERIM REVISIONS)" AND ALL PERTINENT WISDOT SPECIFICATIONS AND DRAWINGS FOR THE LIGHTING STRUCTURES AS FOLLOWS:

CATEGORY III FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 AND TYPE 10 STRUCTURES.

CATEGORY II FATIGUE LOADS OF TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE 9 SPECIAL AND TYPE 10 SPECIAL STRUCTURES. IN LIEU OF DESIGNING FOR GALLOPING, A VIBRATION DAMPER MITIGATION DEVICE IS REQUIRED TO BE SUPPLIED AND INSTALLED AT THE END OF THE MAST ARM

CATEGORY II FATIGUE FATIGUE LOADS OF GALLOPING, TRUCK GUSTS (AT 45 MPH VEHICLE VELOCITY) AND NATURAL WIND GUSTS FOR DESIGN OF TYPE12 AND TYPE 13 STRUCTURES.

115 MPH (700 YEAR MRI BASIC WIND SPEED).

SECURE THE OPENING BELOW THE BASE PLATE WITH STAINLESS STEEL OR GALVANIZED STEEL MESH AND SECURE THE MESH WITH ¾" STAINLESS STEEL BANDING AROUND THE LEVELING NUTS.

INDENT PRINT (NOMINAL ½" HIGH) THE POLE LENGTH AND FIRST TWO LETTERS OF THE MANUFACTURERS NAME ON TWO SIDES OF THE BASE PLATE 180 DEGREES APART, BEFORE GALVANIZING. THE ARM SHALL BE IDENTIFIED WITH THE SAME INFORMATION BY INDENT PRINT

SIGNAL FACE SHALL BE MOUNTED 6 INCHES (NOMINAL) FROM THE END OF THE MONOTUBE ARM OR AS SHOWN ON THE PLAN CONSTRUCTION DETAIL OR A S DIRECTED BY THE PROJECT ENGINEER/ELECTRICAL OPERATIONS PERSONNEL MOUNT ALL LIKE HEAD AT SAME ELEVATION

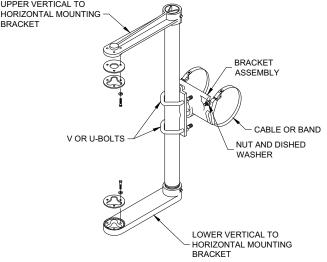
SIGN MOUNTING BRACKETS SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 637 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.

- (1) DESIGN FOR MAXIMUM ALLOWABLE HAND HOLE WITH COVER ASSEMBLY WITH TWO X" X X" 20 TPI STAINLESS STEEL HEX HEAD BOLTS
- SIGNAL MOUNTING BRACKETS FOR POLE MOUNTING, MOUNT WITH CAP SCREW AND BANDING (SEE SPECIFICATION 2 SECTION 658).
- 3 SECURELY MOUNT BACK PLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURERS RECOMMENDATIONS
- 4 THE TOP OF THE POLE SHAFT AND THE MONOTUBE ARM SHALL BE EQUIPPED WITH A REMOVABLE, VENTILATED CAP HELD SECURELY IN PLACE WITH SET SCREWS.
- 5 FACTORY WELDED BRACKET FOR GROUNDING LUG, OPPOSITE HAND HOLD, (LUG AND HARDWARE PAID UNDER SEPARATE ITEM). PROVIDE HOLE IN BRACKET FOR 1/2" X 1/2" - 20 TPI STAINLESS STEEL HEX HEAD BOLT.
- 6) FACTORY WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE
- $\overline{(7)}$ INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

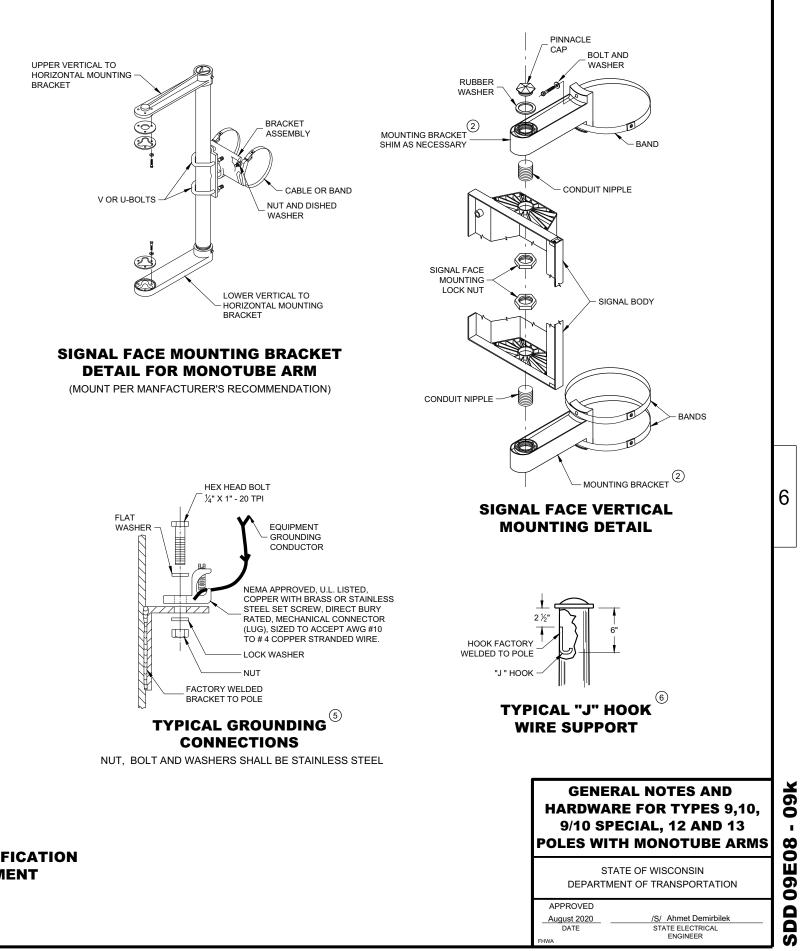
STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

MOUNTING HEIGHT SHALL BE 6' - 0" ABOVE THE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL BE OBSTRUCTED.

(8) FACTORY DRILLED ½" DRAIN HOLE 2" FROM FLANGE CONNECTION PLATE



## **DETAIL FOR MONOTUBE ARM**

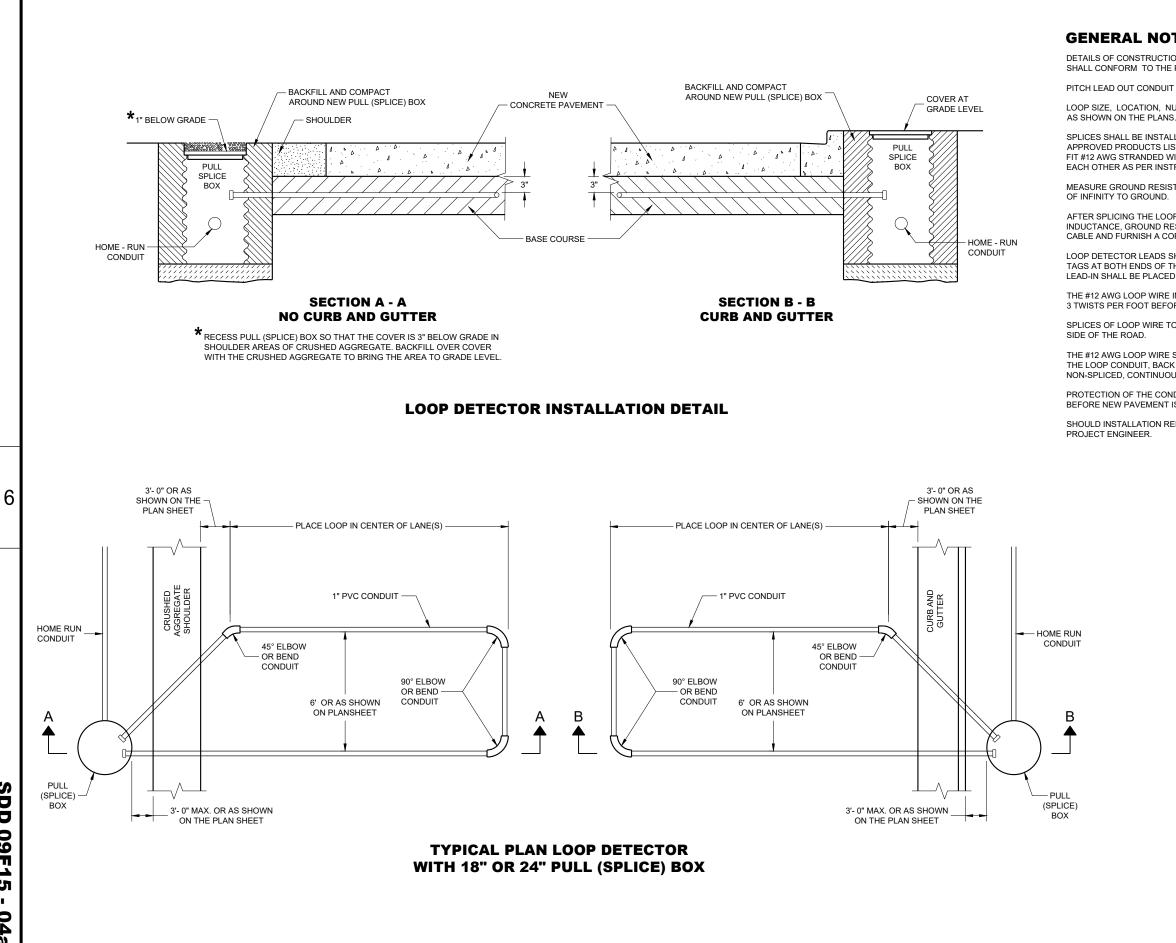


### STRUCTURAL IDENTIFICATION **PLAQUE PLACEMENT**

6' - 0"

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

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READING TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

THE #12 AWG LOOP WIRE IN THE ROADSIDE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE NON-SPLICED, CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT IN THE BASE COURSE SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE

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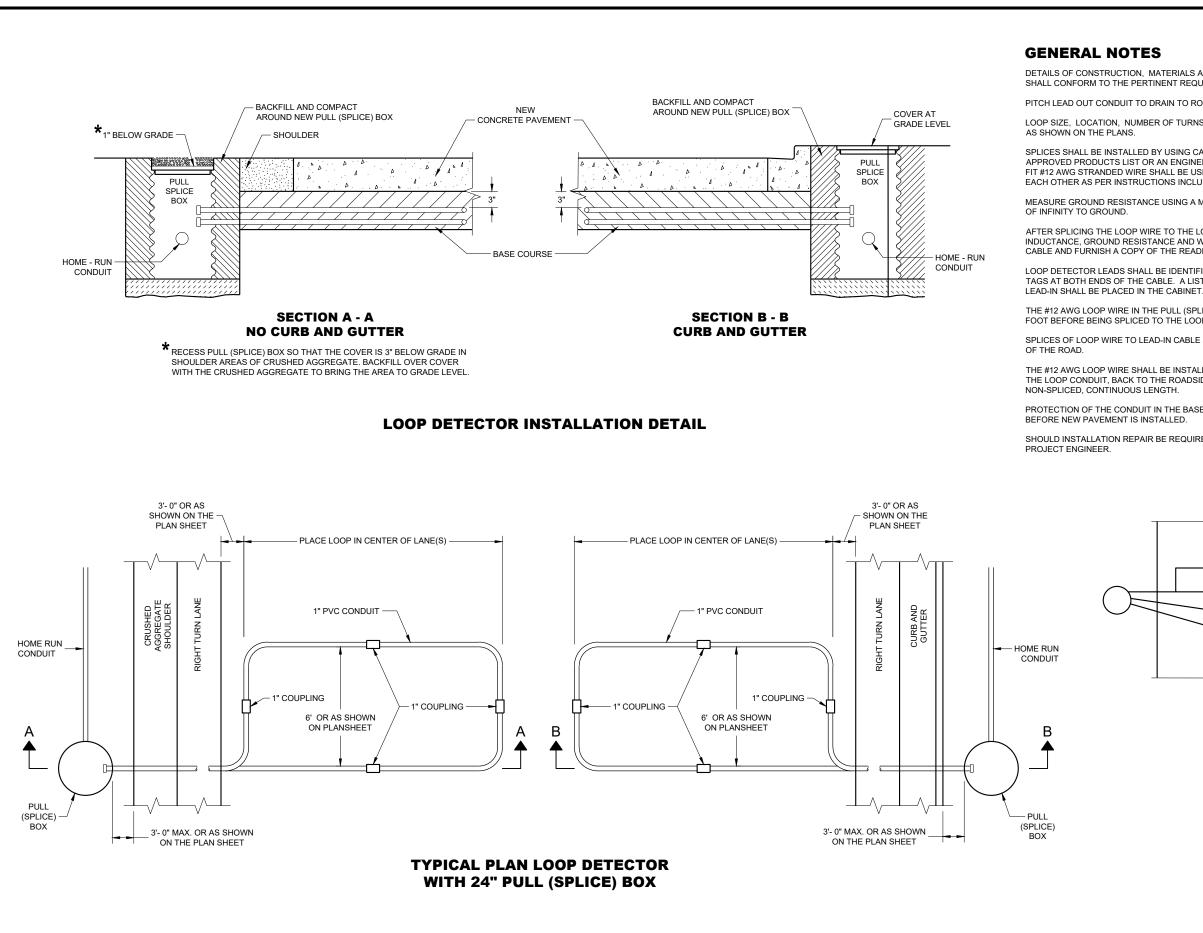
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### LOOP DETECTOR INSTALLED **IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 1)**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED September 2014 DATE

/S/ Ahmet Demirbilek STATE ELECTRICAL ENGINEER



SDD 09F 5 24 ō

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

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READING TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP

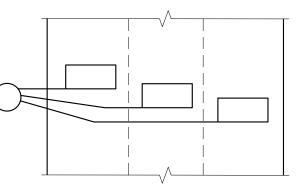
THE #12 AWG LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE

PROTECTION OF THE CONDUIT IN THE BASE COURSE SHALL BE REQUIRED AFTER INSTALLATION AND

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE



### **MULTI-LANE** INSTALLATION

### LOOP DETECTOR INSTALLED **IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED September 2014 DATE

/S/ Ahmet Demirbilek STATE ELECTRICAL ENGINEER 6

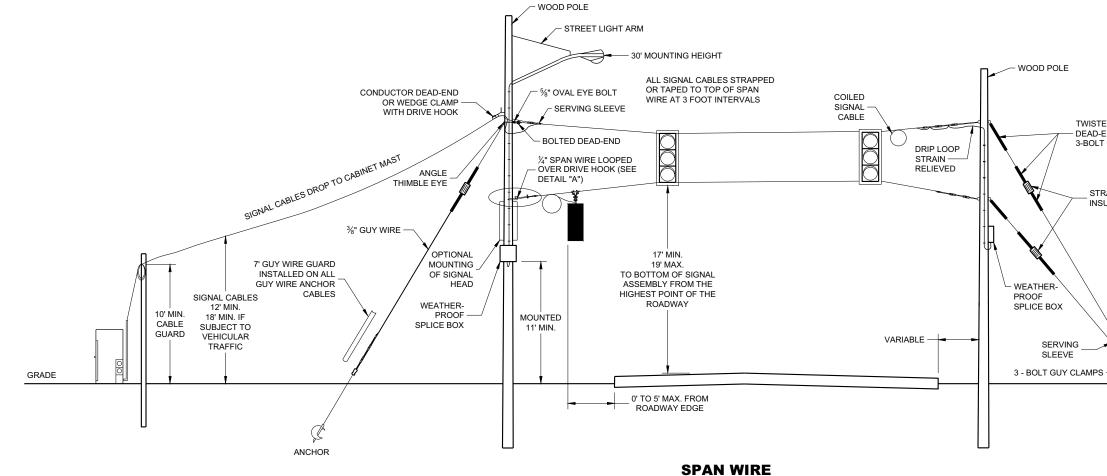
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- 2. SIGNAL FACES:

- 3. SPAN WIRE:

  - WORK PROGRESSES.



WIRE ROPE TETHER WIRE CLIPS

DETAIL "A"

DRIVE HOOK

WOOD POLE

1/4" SERVING SLEEVE

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1/4" TETHER

**TEMPORARY SIGNALS** 

6

MINIMUM POLE

LENGTHS

25'

30'

35'

40'

45'

POLE BURIAL

DEPTHS

5'

6'

7'

8'

9'



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

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.

A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.

B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.

C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.

D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.

A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED

B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.

C. THE SIGNAL ASSEMBLY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY

> TWISTED LOOP DEAD-ENDS OR 3-BOLT CLAMPS

> > STRAIN RELIEF INSULATOR

> > > 7' GUY WIRE GUARD INSTALLED ON ALL GUY WIRE ANCHOR CABLES

> > > > - TWIN EYE AT GRADE

GRADE

Ð ANCHOR

> **SPAN WIRE TEMPORARY TRAFFIC SIGNAL**

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

APPROVED

June 2015 DATE

/S/ Ahmet Demerbilek STATE ELECTRICAL ENGINEER 6

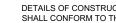
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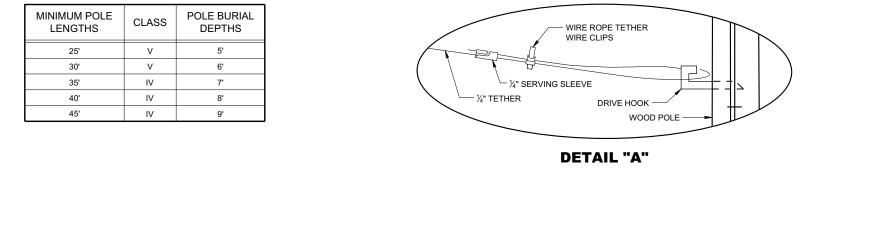
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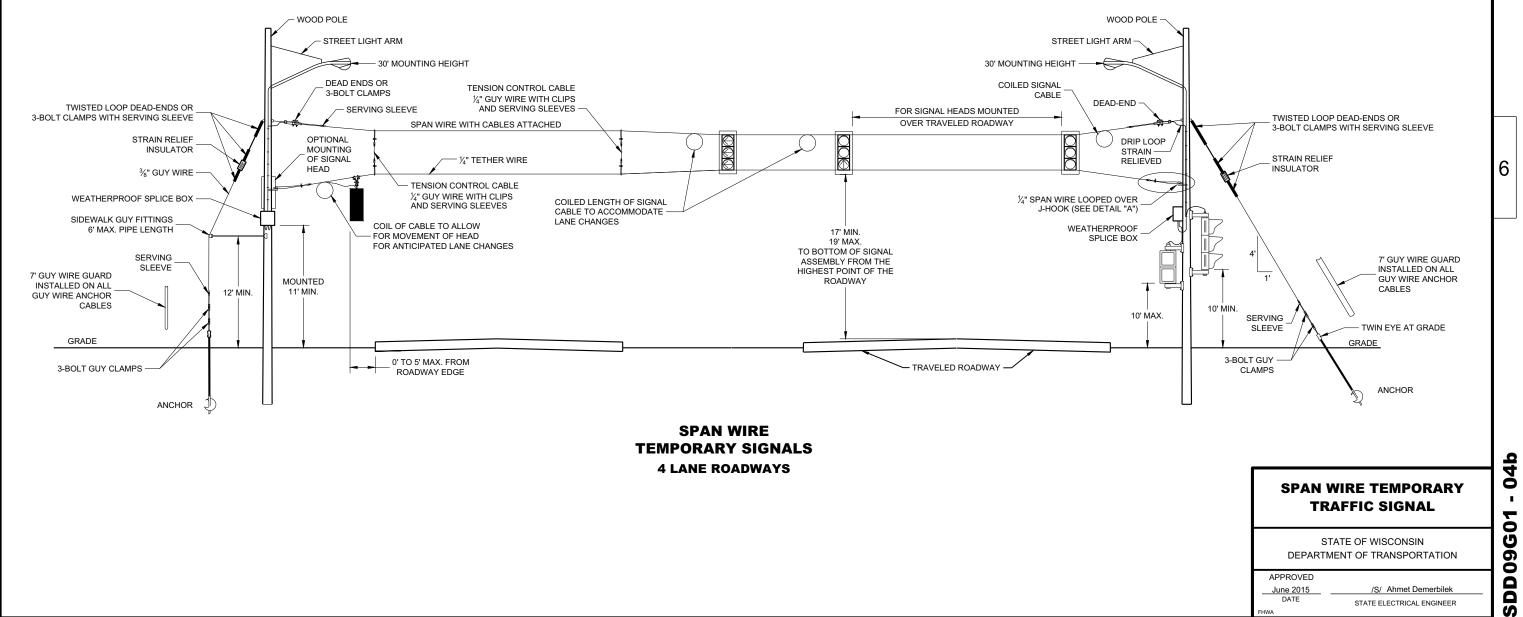
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3. SPAN WIRE:







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

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.

A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.

B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.

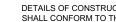
C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET

D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.

E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.

A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED

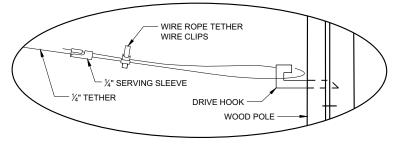
B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE. C. THE SIGNAL ASSEMBLY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.



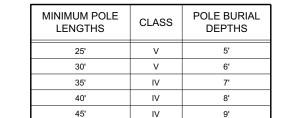
- 2. SIGNAL FACES:

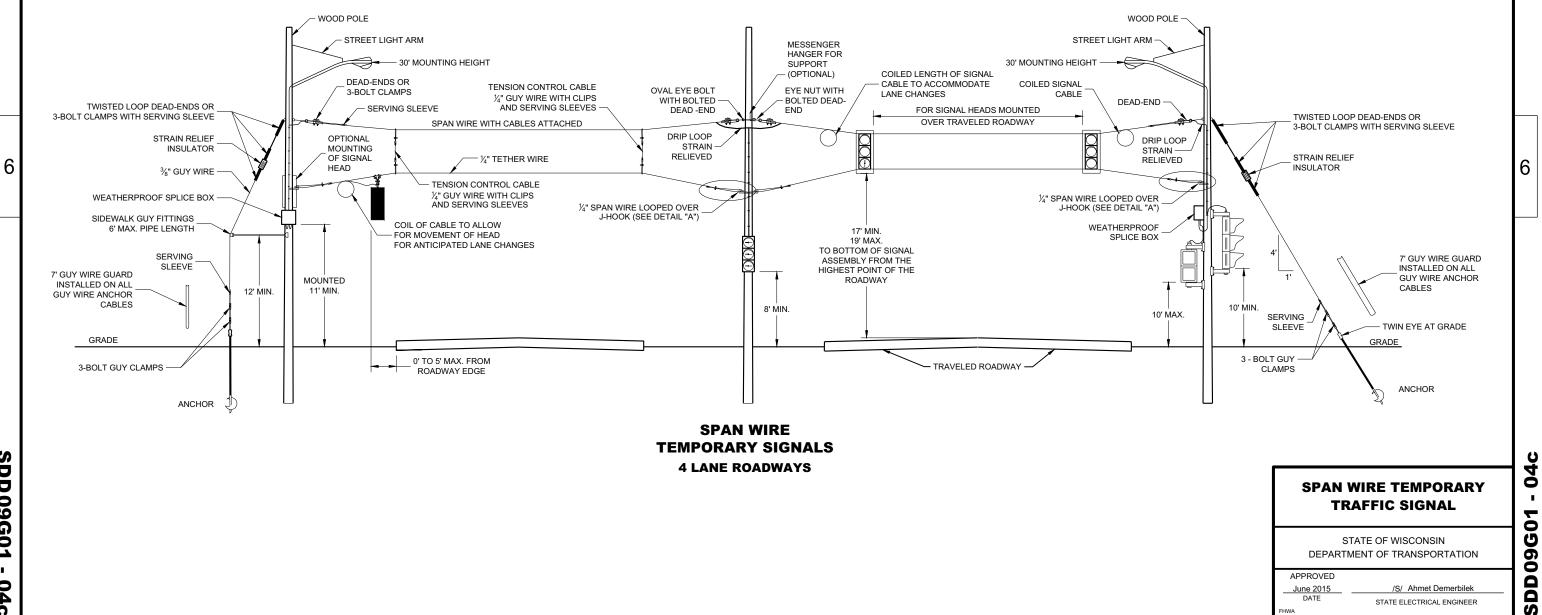
  - 3. SPAN WIRE:

  - WORK PROGRESSES.









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

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.

A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE

B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.

C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET

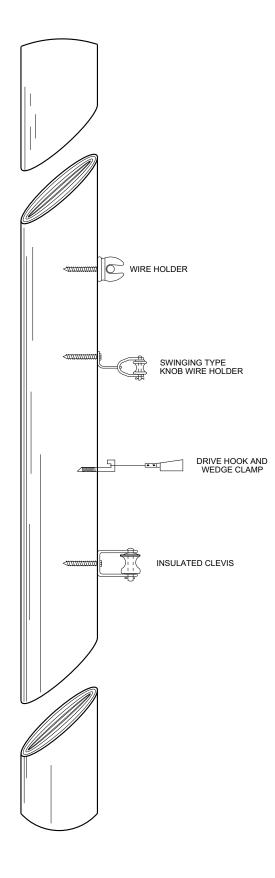
D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.

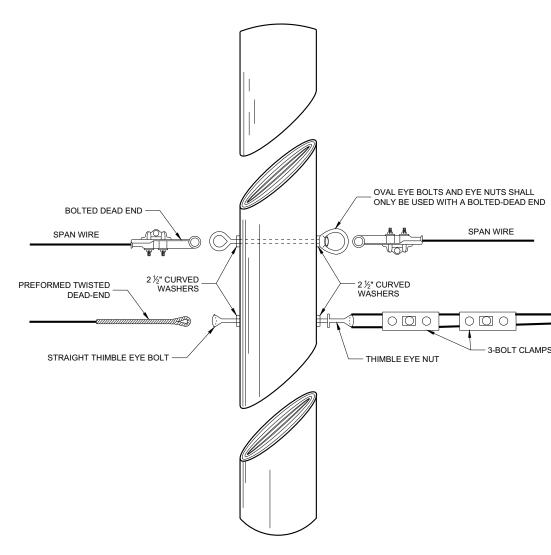
E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.

A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED

B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE. C. THE SIGNAL ASSEMBLY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY







**SPAN WIRE TEMPORARY TRAFFIC SIGNAL** 

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

June 2015 /S/ Ahmet Demerbilek DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

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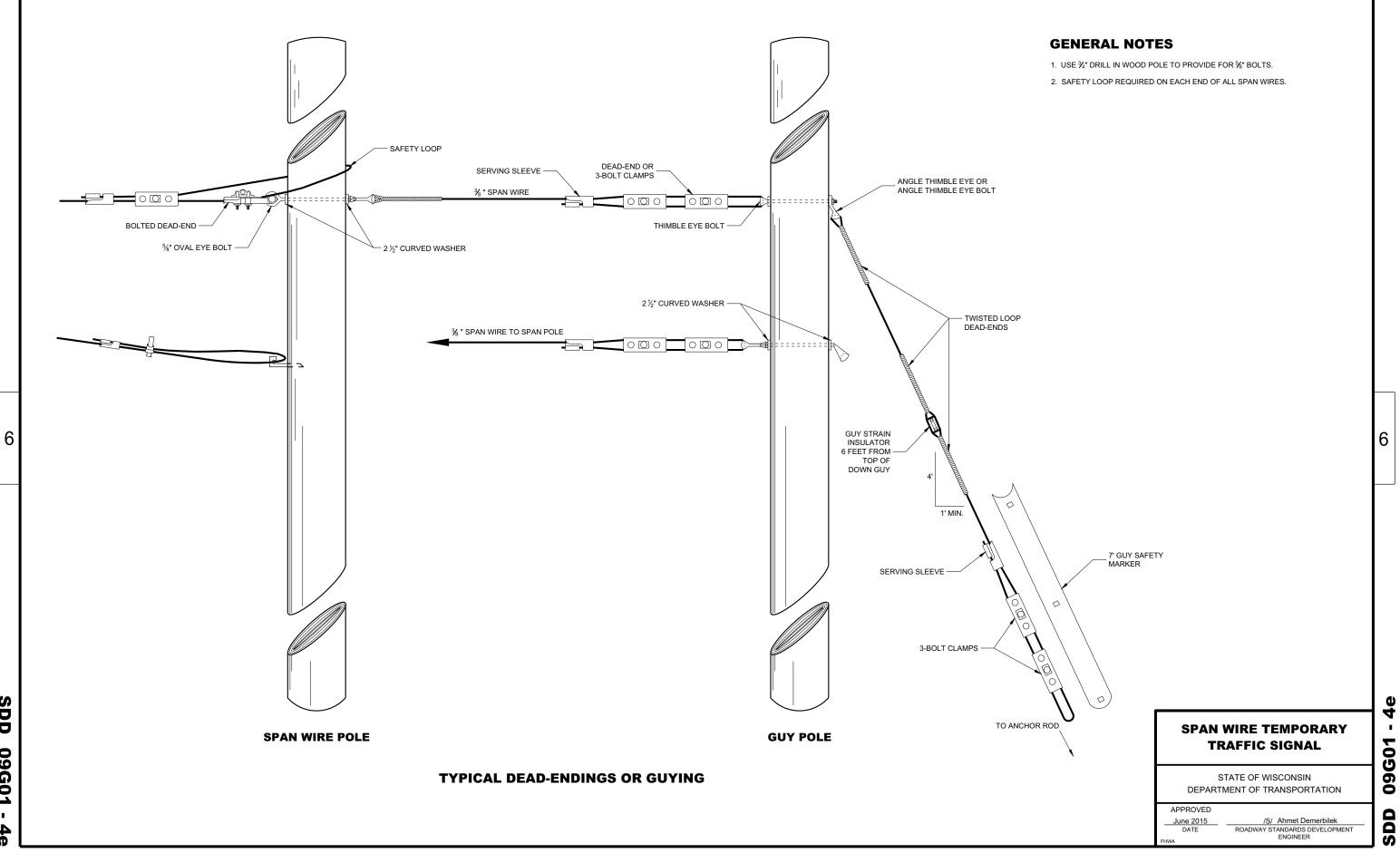
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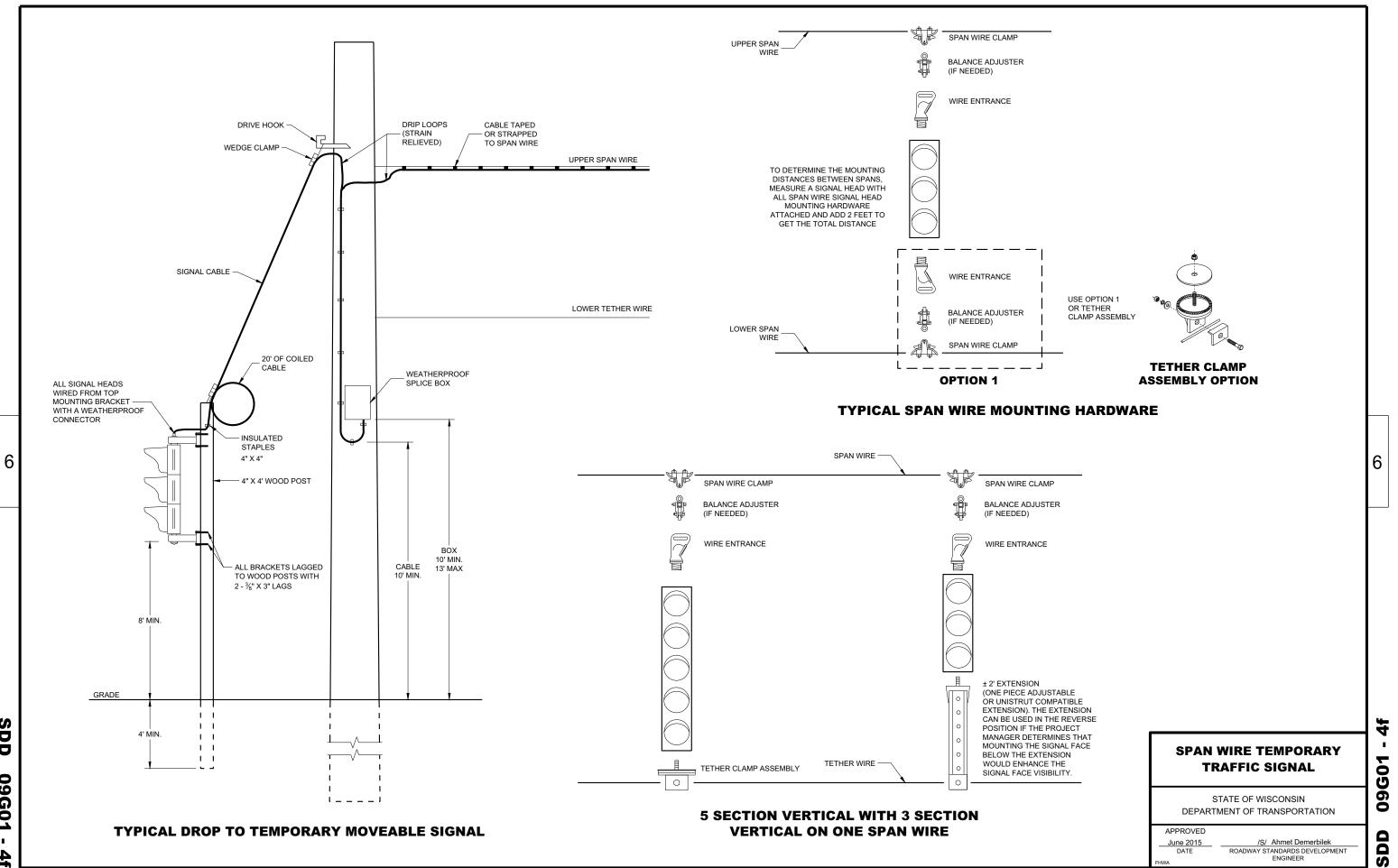
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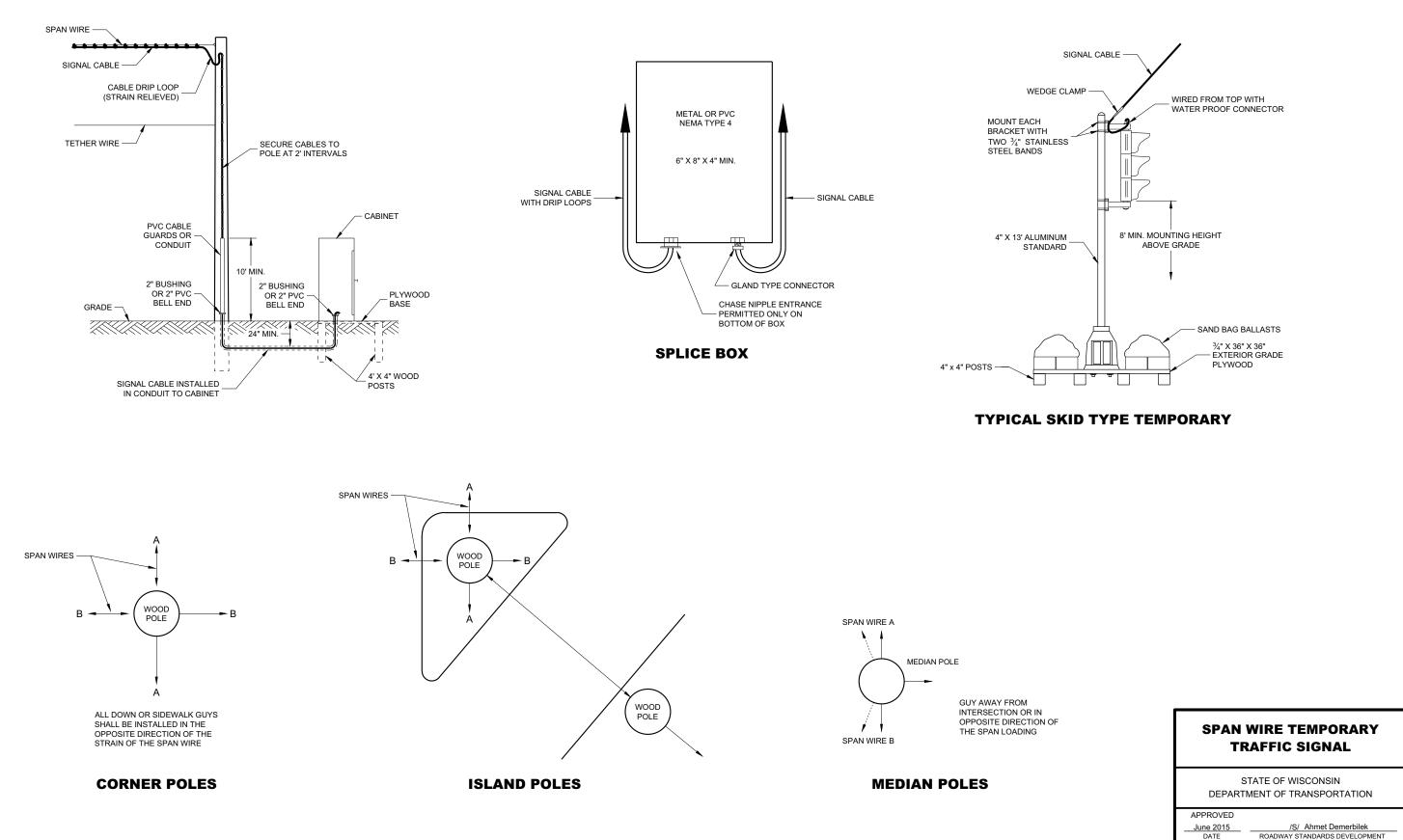




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/S/ Ahmet Demerbilek ROADWAY STANDARDS DEVELOPMENT ENGINEER

June 2015 DATE



/S/ Ahmet Demerbilek ROADWAY STANDARDS DEVELOPMENT ENGINEER

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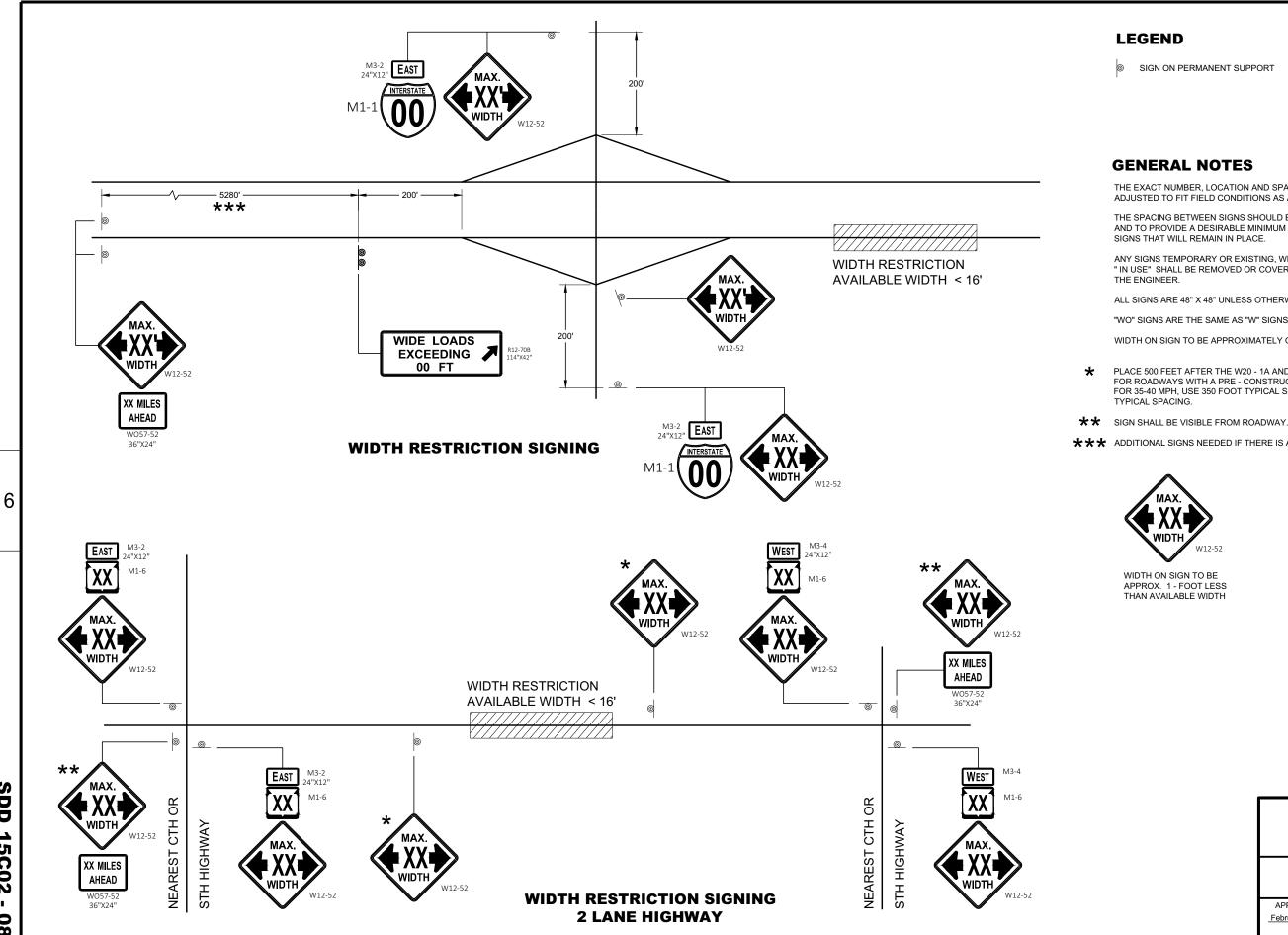
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SDD **15C02** 08f

SIGN ON PERMANENT SUPPORT

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS 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 DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

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

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

WIDTH ON SIGN TO BE APPROXIMATELY ONE FOOT LESS THAN AVAILABLE WIDTH.

PLACE 500 FEET AFTER THE W20 - 1A AND 500 FEET BEFORE ADDITIONAL SIGNS FOR ROADWAYS WITH A PRE - CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200 FOOT

**\*\*\*** ADDITIONAL SIGNS NEEDED IF THERE IS AN ON RAMP BETWEEN SIGNS.

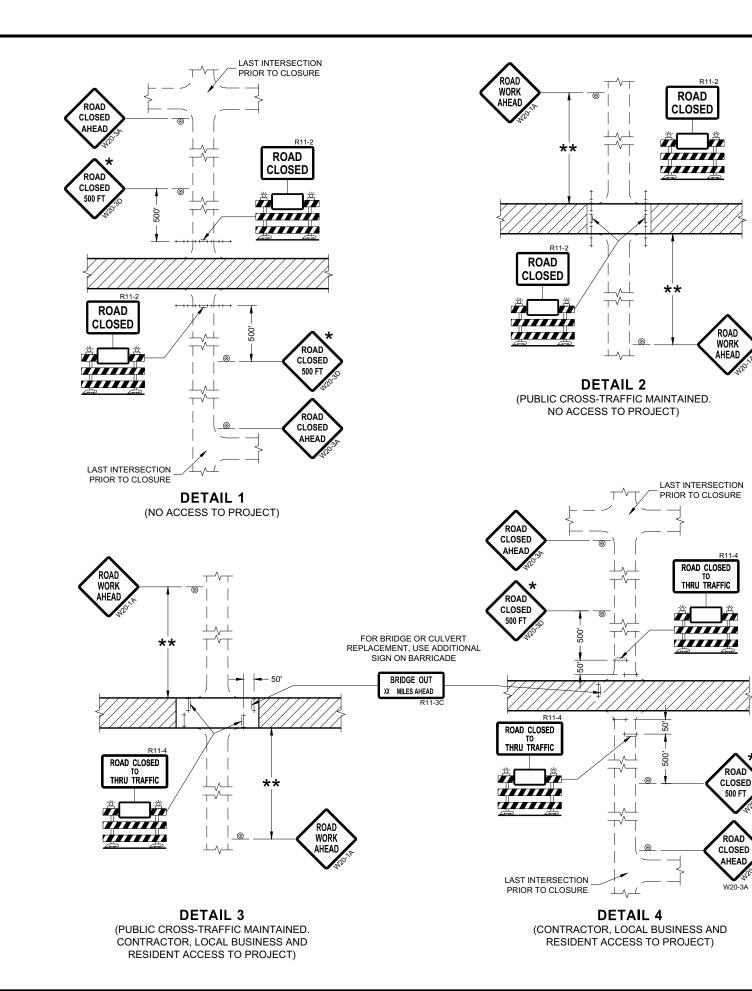
### **ADVANCED WIDTH RESTRICTION SIGNING**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED February 2020 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER 80 N ÖÜ Ñ ~ ۵

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AS APPROVED BY THE ENGINEER.

NEEDED AND AS APPROVED BY THE ENGINEER.

SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

THE OPERATION OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

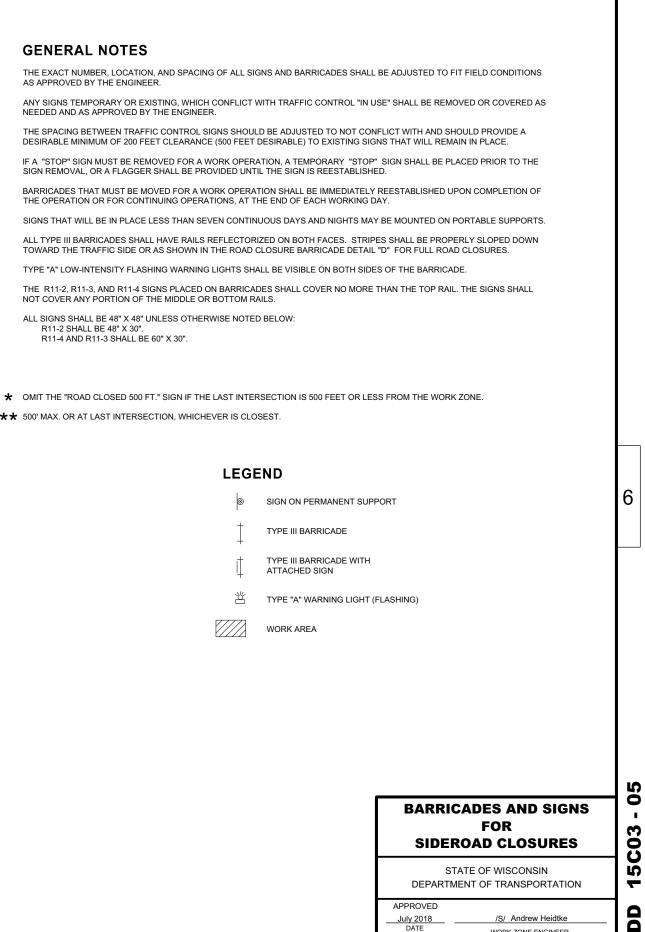
NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW: R11-2 SHALL BE 48" X 30". R11-4 AND R11-3 SHALL BE 60" X 30".

★★ 500' MAX. OR AT LAST INTERSECTION, WHICHEVER IS CLOSEST.

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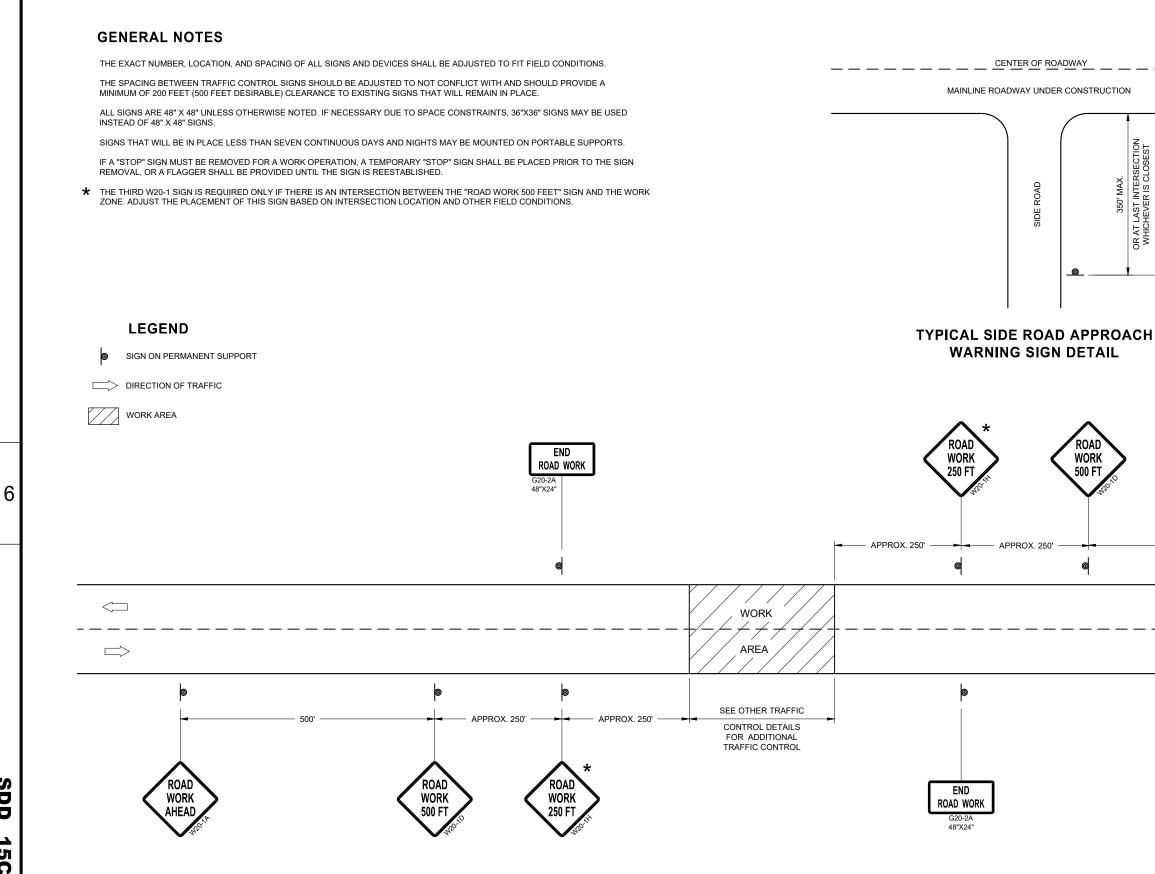




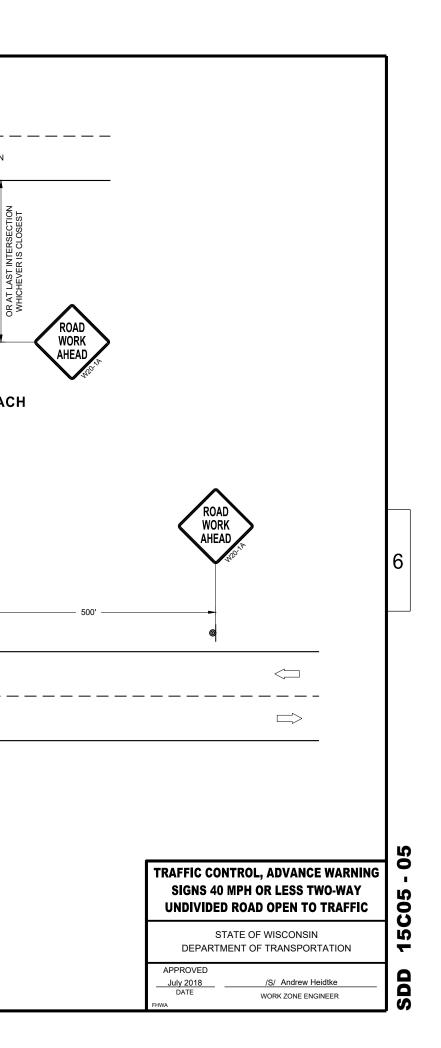
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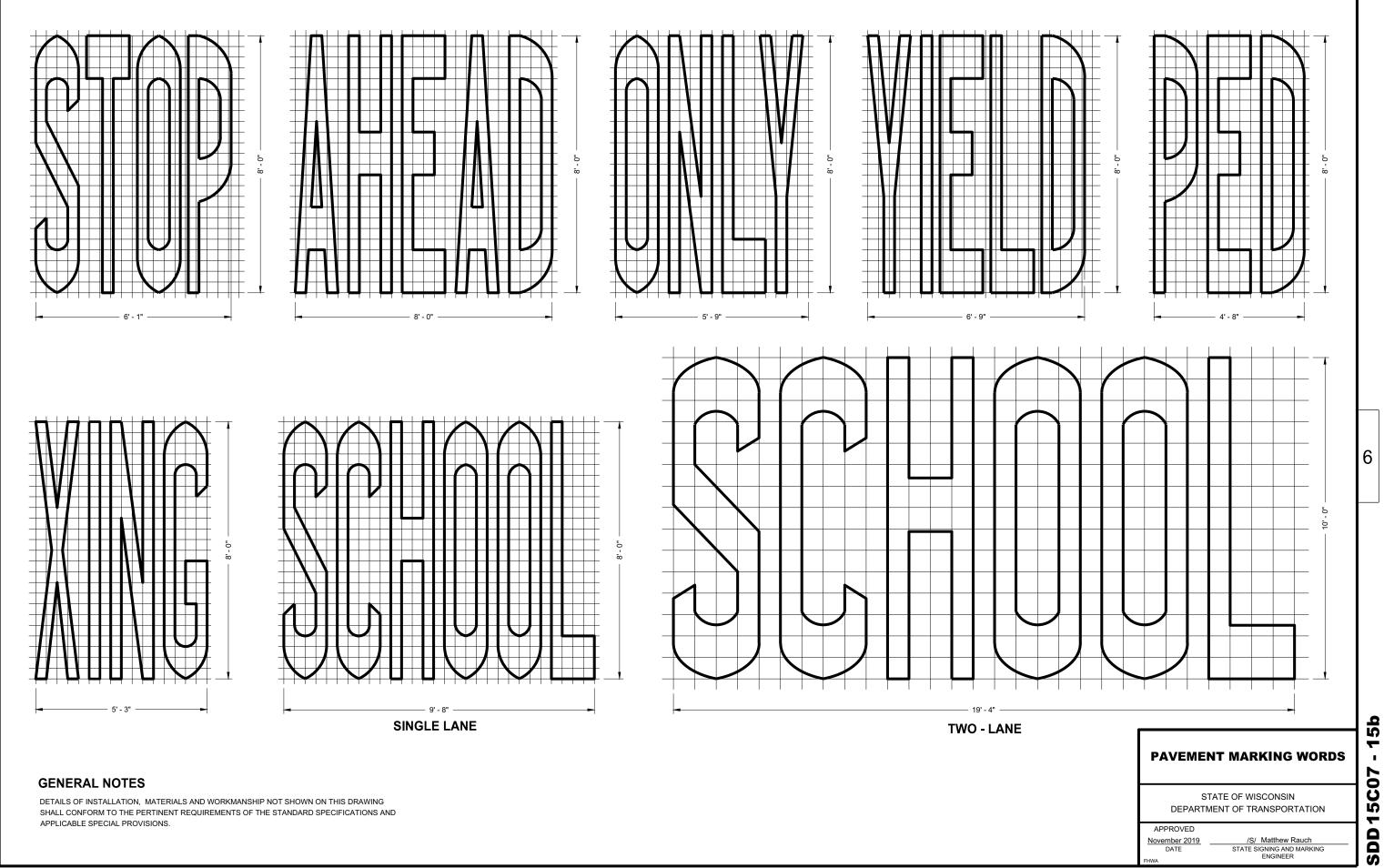
WORK ZONE ENGINEER

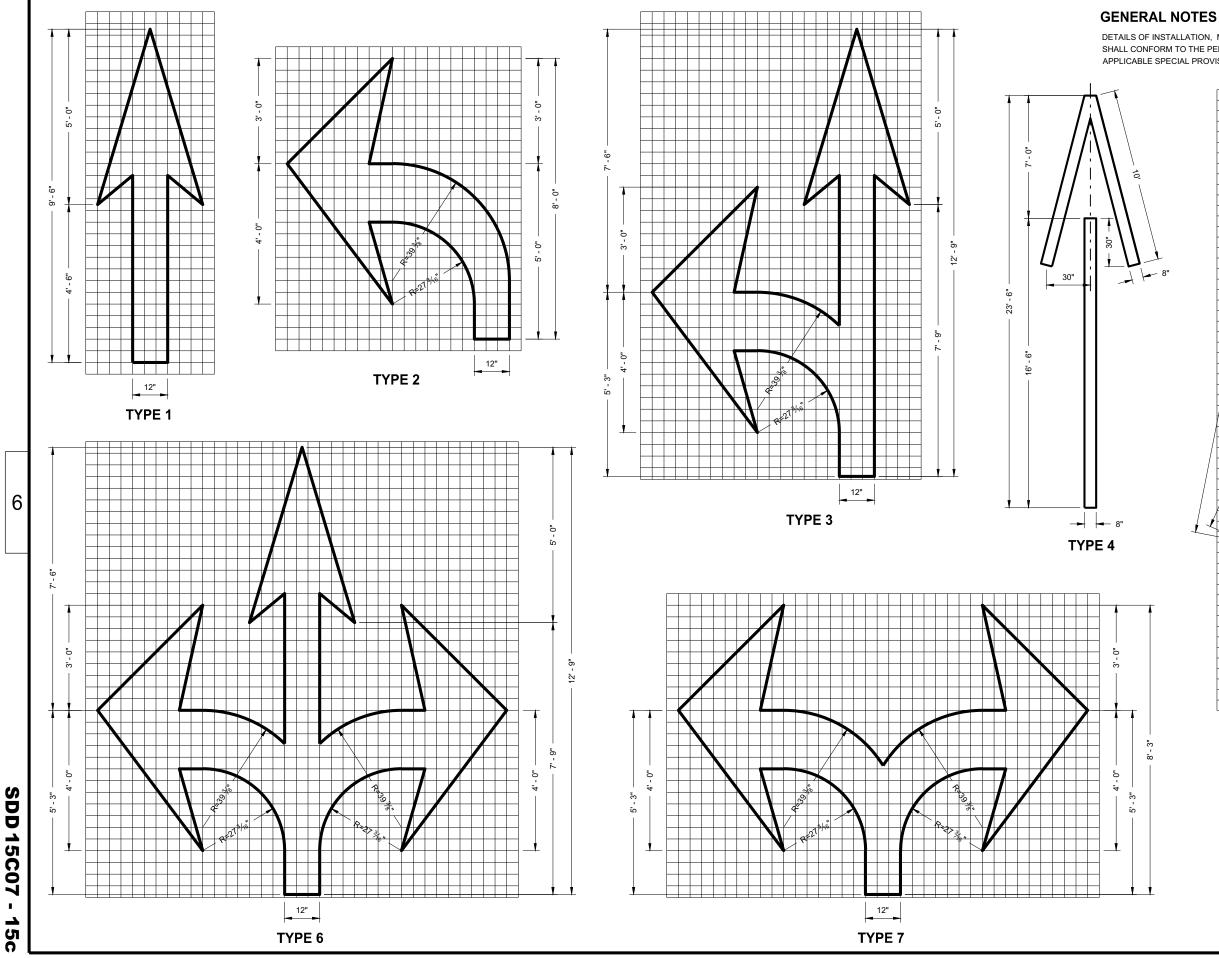
July 2018 DATE



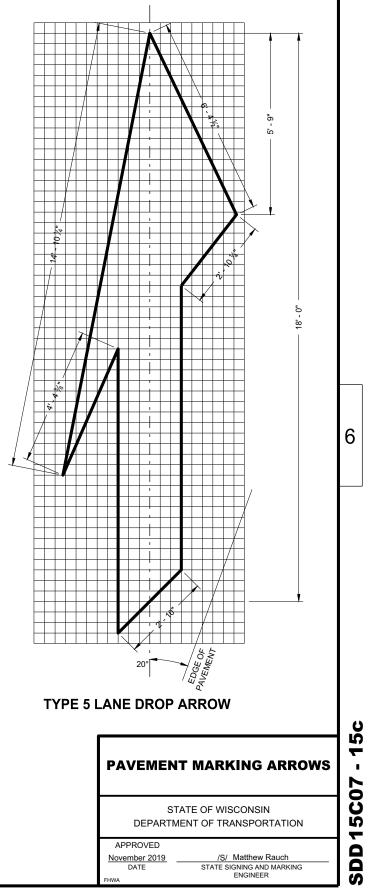
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS



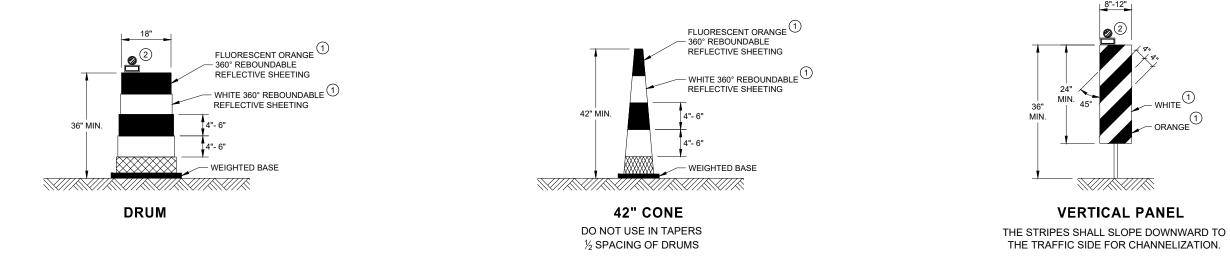


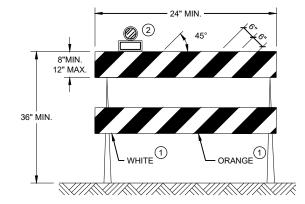


DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



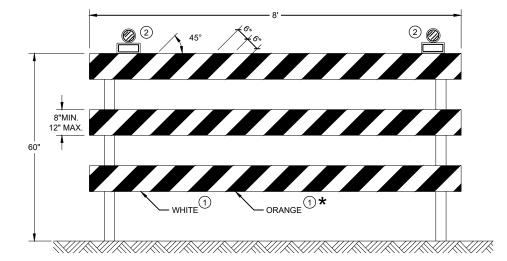
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.





**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.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

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### **CHANNELIZING DEVICES DRUMS, CONES, BARRICADES** AND VERTICAL PANELS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

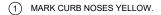
APPROVED May 2021 DATE

/S/ Andrew Heidtke WORK ZONE ENGINEER

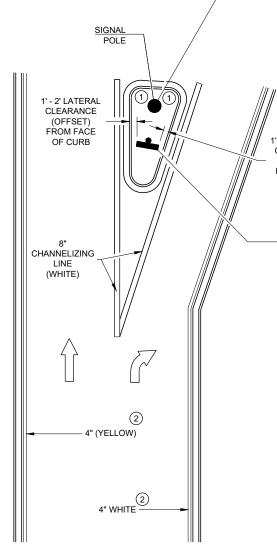
REQUIREMENTS FOR EDGE LINES			
	IS THERE CONTINUOUS LIGHTING?		
POSTED SPEED	YES	NO	
≤ 30 MPH	NO	OPTIONAL	
35 OR 40 MPH	OPTIONAL	RECOMMENDED	
≥ 45 MPH	RECOMMENDED	REQUIRED	

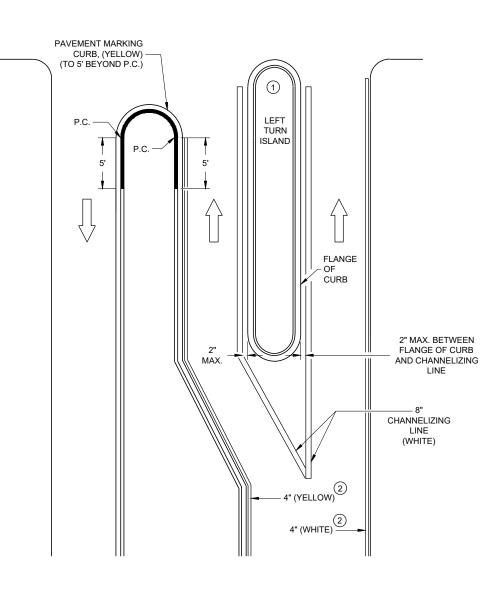


APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL. SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.



2 MARK ACCORDING TO TABLE.







### **RIGHT TURN ISLAND**



2' MOUNTING HEIGHT

**OPTION #2** IF LATERAL CLEARANCE NOT POSSIBLE WITH OPTION #1

1' - 2' LATERAL CLEARANCE (OFFSET) FROM FACE OF CURB

W12-1D 2' MOUNTING HEIGHT

OPTION #1

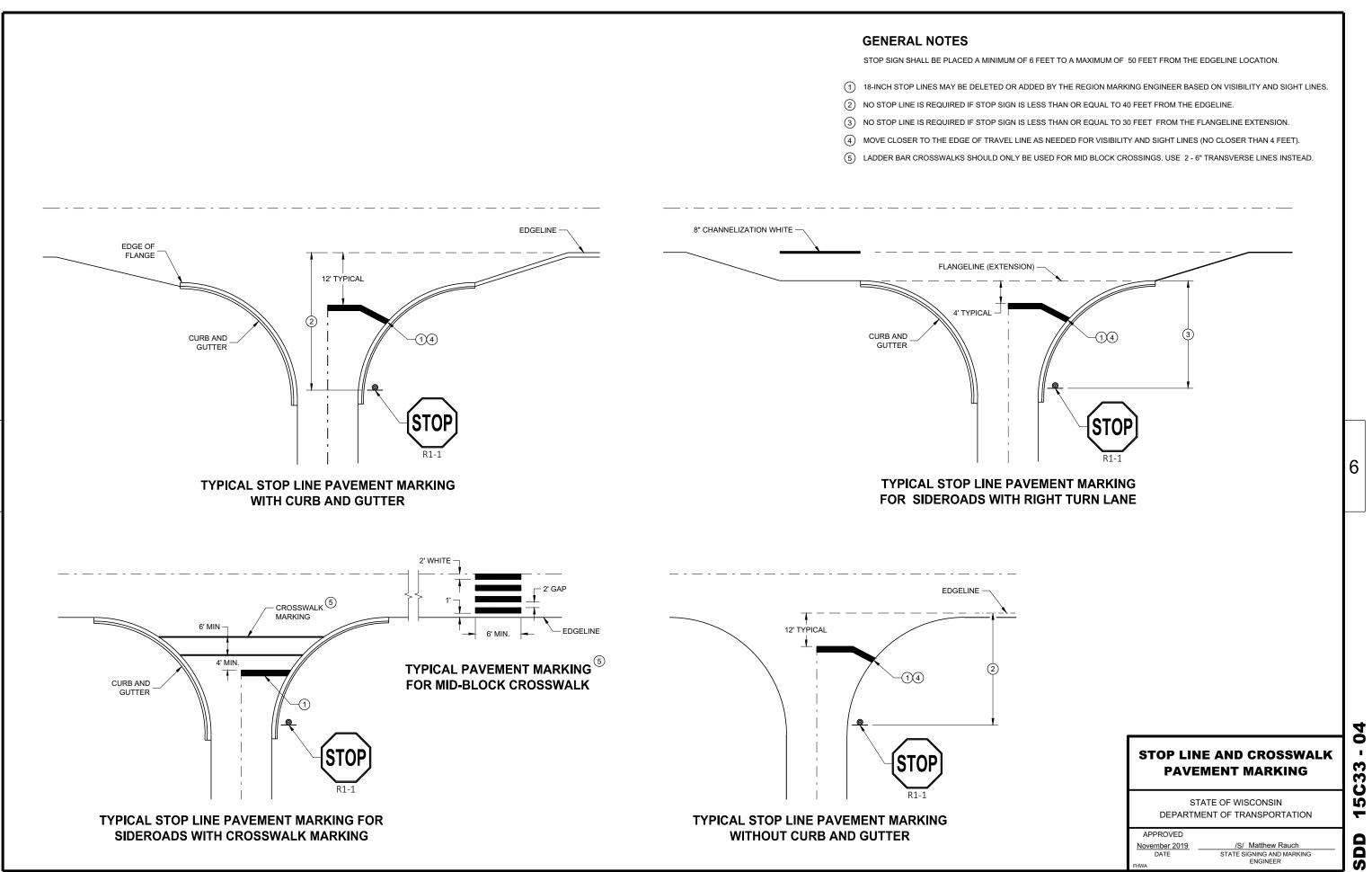
### **MEDIAN PAVEMENT** MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

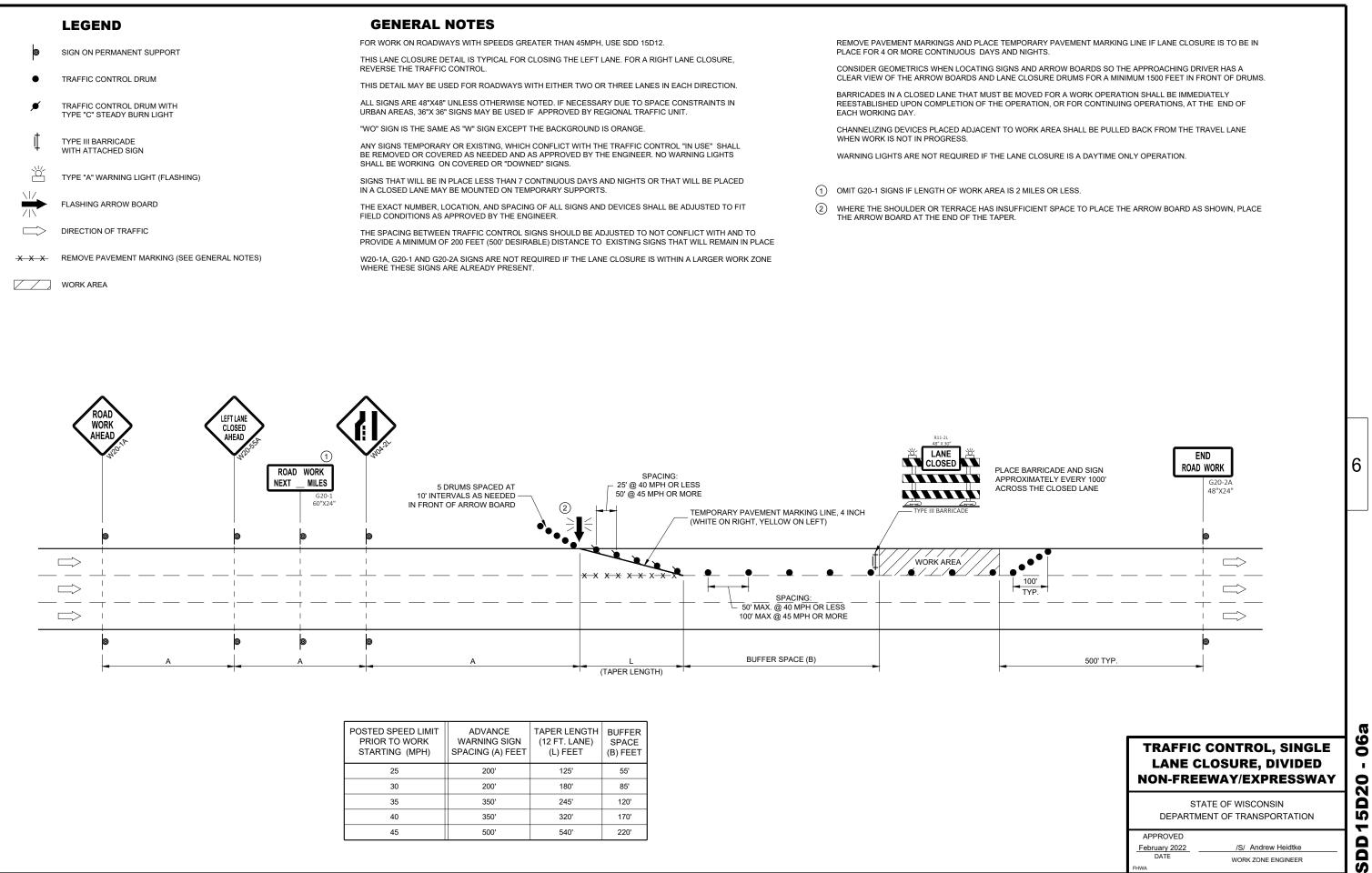
APPROVED May 2022 DATE

/S/ Jeannie Silver STATE SIGNING AND MARKING ENGINEER

U 90 15C18 SDD

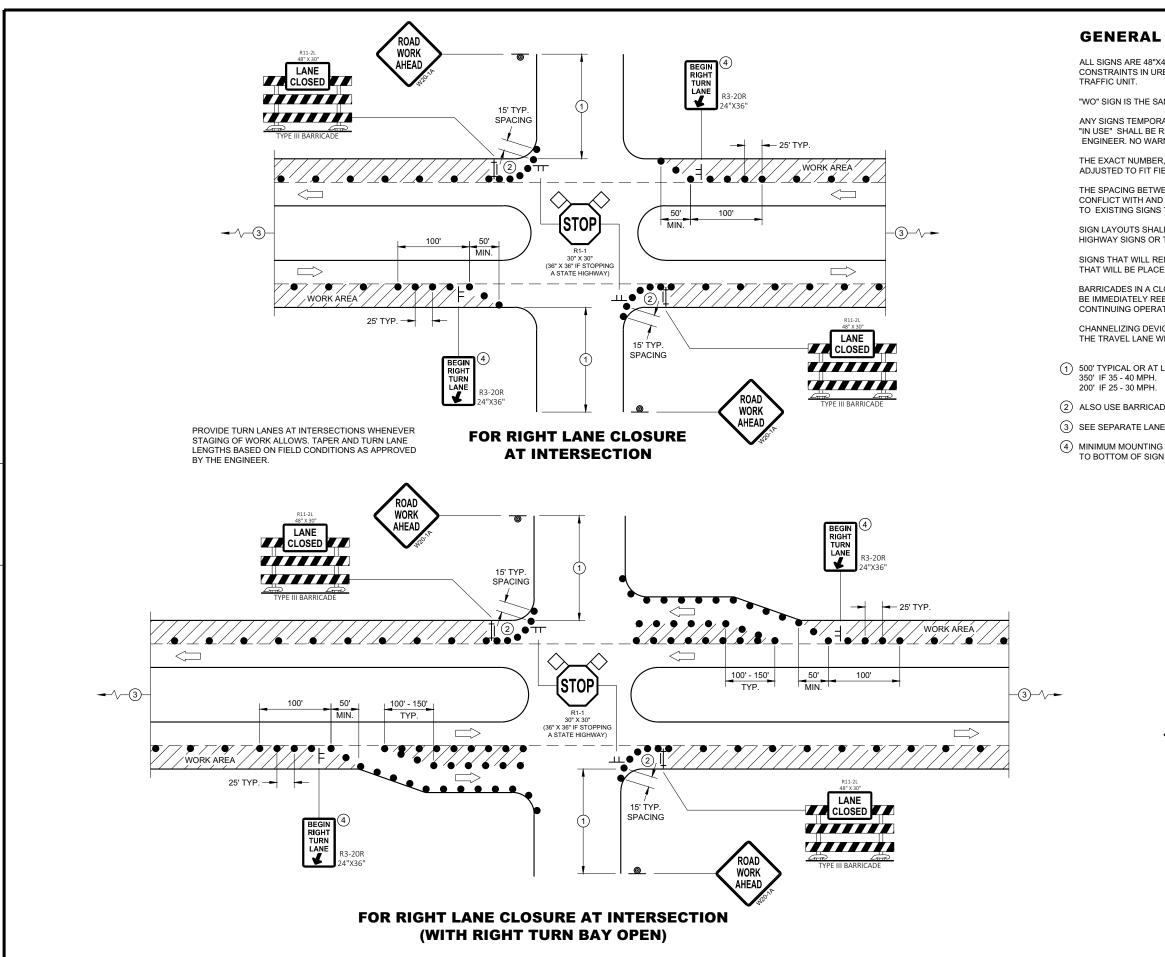


SDD 15C33 - 04



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'

**SDD 15D20** 0 6 Q



### **GENERAL NOTES**

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER, NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

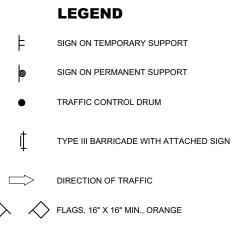
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION)



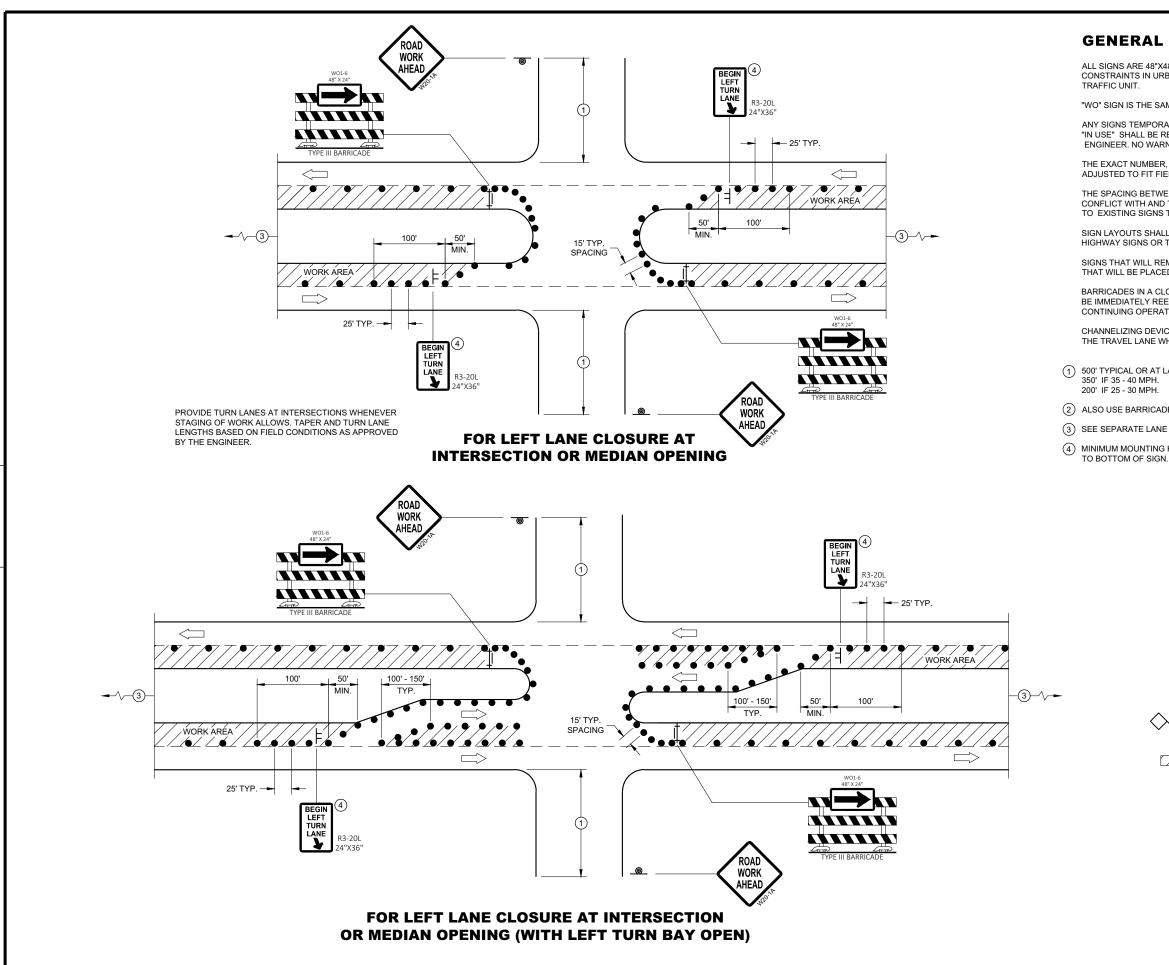
WORK AREA  $\Box$ 

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### **TRAFFIC CONTROL**, INTERSECTION WITHIN SINGLE **RIGHT LANE CLOSURE**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



SDD 15D21 0 ס

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### **GENERAL NOTES**

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

1 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION)



LEGEND

TYPE III BARRICADE WITH ATTACHED SIGN



DIRECTION OF TRAFFIC



FLAGS, 16" X 16" MIN., ORANGE



### **TRAFFIC CONTROL**, INTERSECTION WITHIN SINGLE LEFT LANE CLOSURE

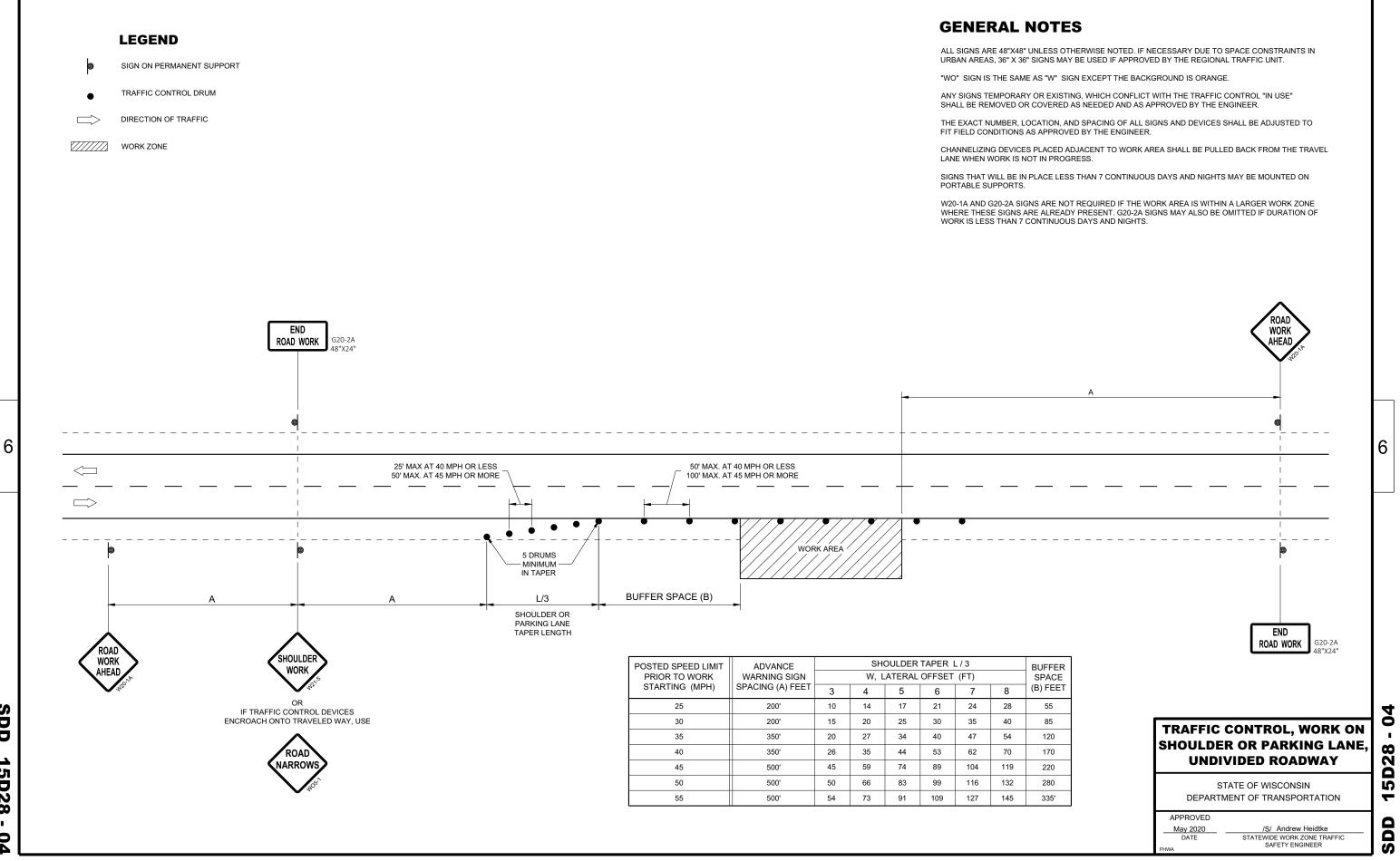
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED August 2020 DATE

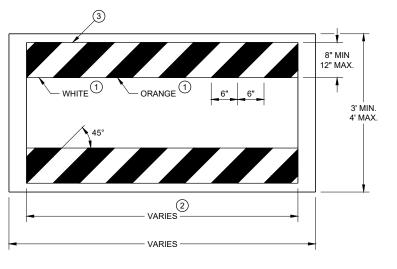
/S/ Andrew Heidtke WORK ZONE ENGINEER 6

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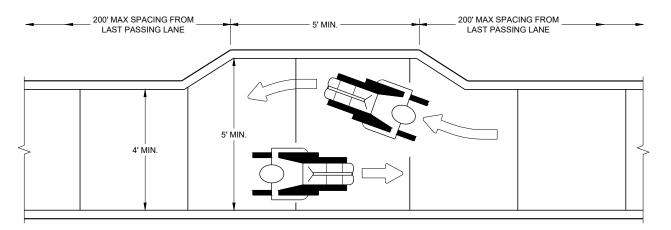
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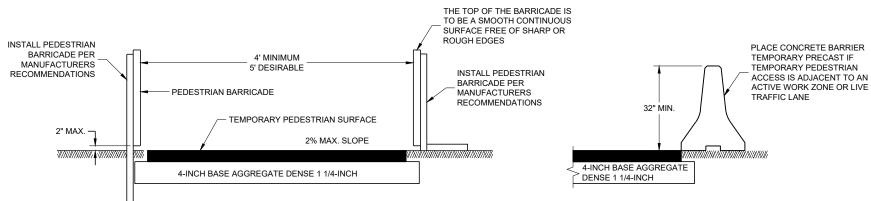








NARROW SIDEWALK PASSING DETAIL



**TEMPORARY PEDESTRIAN ACCESS** 

#### **GENERAL NOTES**

BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

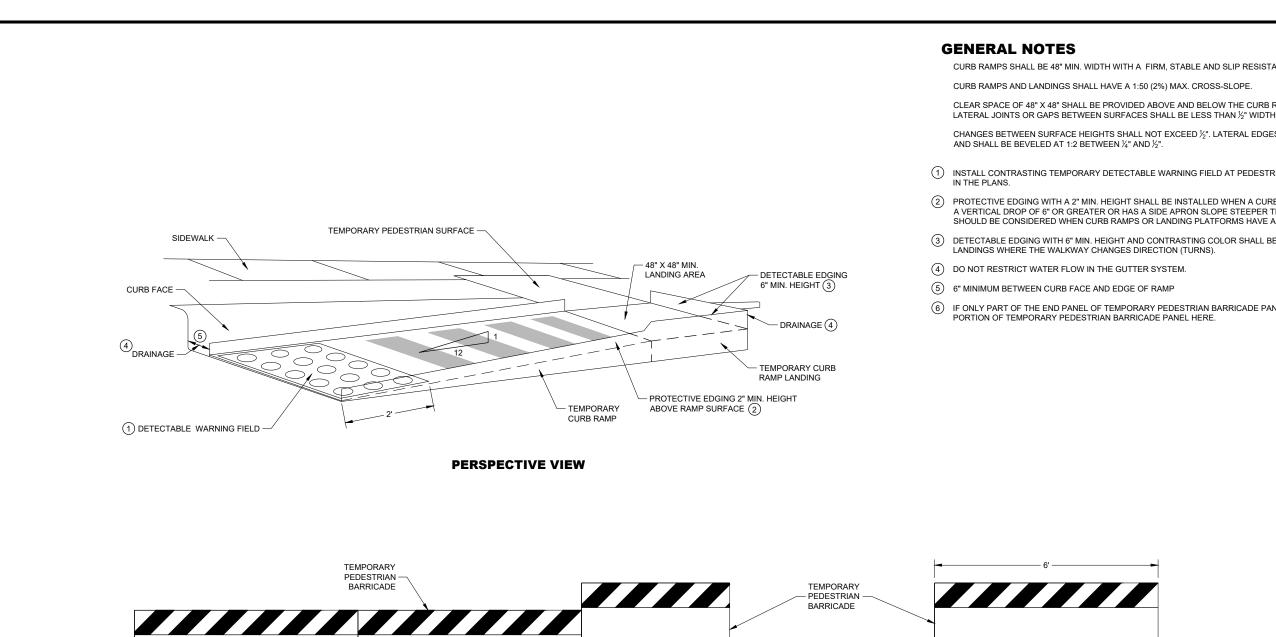
- 1 REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.
- (3) PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.
- ★ USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.

#### TEMPORARY PEDESTRIAN BARRICADE\*

## 5 01 . 15D30 SDD

#### **TRAFFIC CONTROL**, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



TEMPORARY CURB RAMP -

**FRONT VIEW** 

6

TOP OF CURB -

CURB FACE

GUTTER PAN

#### **TEMPORARY CURB RAMP PARALLEL TO CURB**

TEMPORARY CURB -

RAMP LANDING

(6)

- TOP OF CURB

GUTTER PAN

ROADWAY

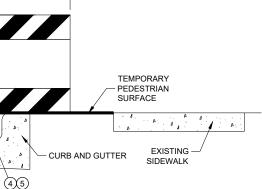
SURFACE

TEMPORARY CURB -

RAMP LANDING

SIDE VIEW

- CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.
- CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
- CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED  $\frac{1}{2}$ ". LATERAL EDGES MAY BE VERTICAL UP TO  $\frac{1}{4}$ " HIGH
- (1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN
- (2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
- (3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP
- (6) IF ONLY PART OF THE END PANEL OF TEMPORARY PEDESTRIAN BARRICADE PANEL IS NEEDED, EXTEND EXCESS



#### **TRAFFIC CONTROL**, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

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**5D30** 

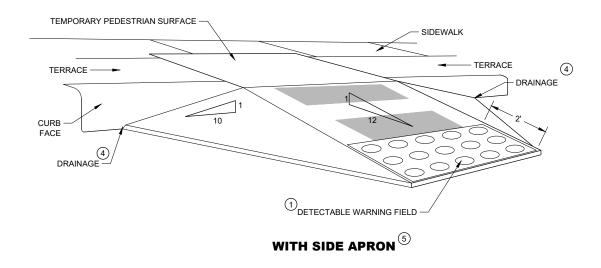
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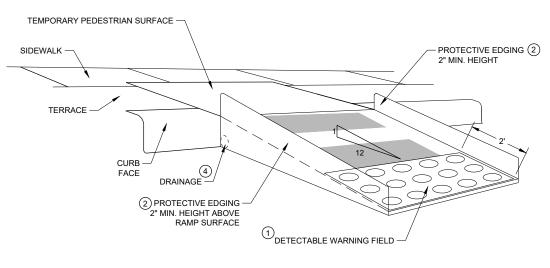
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#### **GENERAL NOTES**

- AND SHALL BE BEVELED AT 1:2 BETWEEN 1/4" AND 1/2".
- THE PLANS
- LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
- (4) DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
- (5) CAN ONLY BE USED FOR RAMPS WITH 6" OR LESS OF VERTICAL CHANGE.





WITH PROTECTIVE EDGE

#### **TEMPORARY CURB RAMP PERPENDICULAR TO CURB**

CURB RAMPS SHALL BE 48" MINIMUM WIDTH WITH A FIRM, STABLE AND SLIP RESISTANT SURFACE.

ALTERNATE SIDEWALK WORK BETWEEN LEFT AND RIGHT SIDE OF ROADWAY TO MAINTAIN PEDESTRIAN ACCESS.

CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.

CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.

LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN  $\ensuremath{\frac{1}{2}}$  " width.

CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED  $\frac{1}{2}$ ". LATERAL EDGES MAY BE VERTICAL UP TO  $\frac{1}{4}$ " HIGH

(1) INSTALL CONTRASTING TEMPORARY DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS, AS SHOWN IN

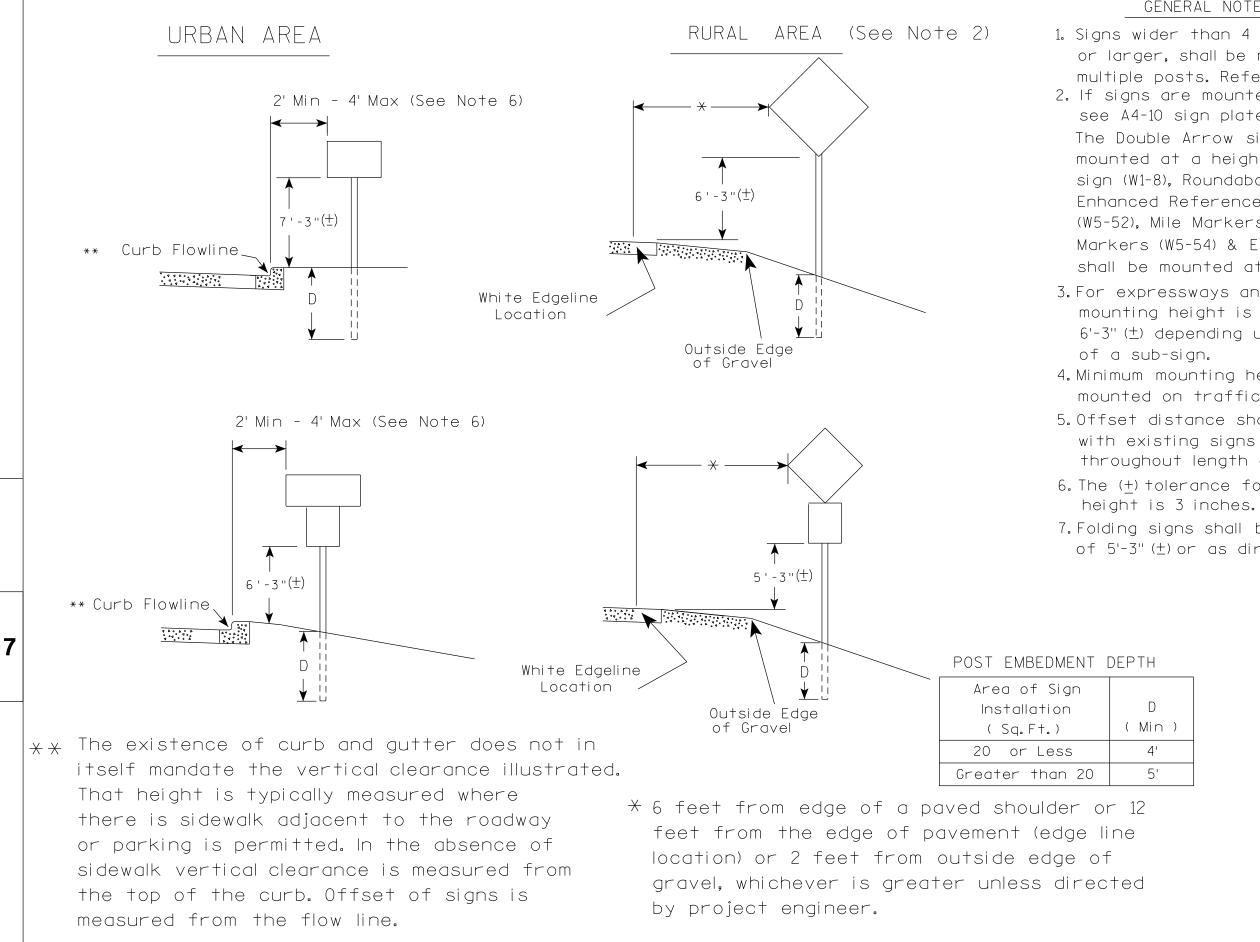
(2) PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.

(3) DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP

6

#### **TRAFFIC CONTROL**, **PEDESTRIAN ACCOMMODATION**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

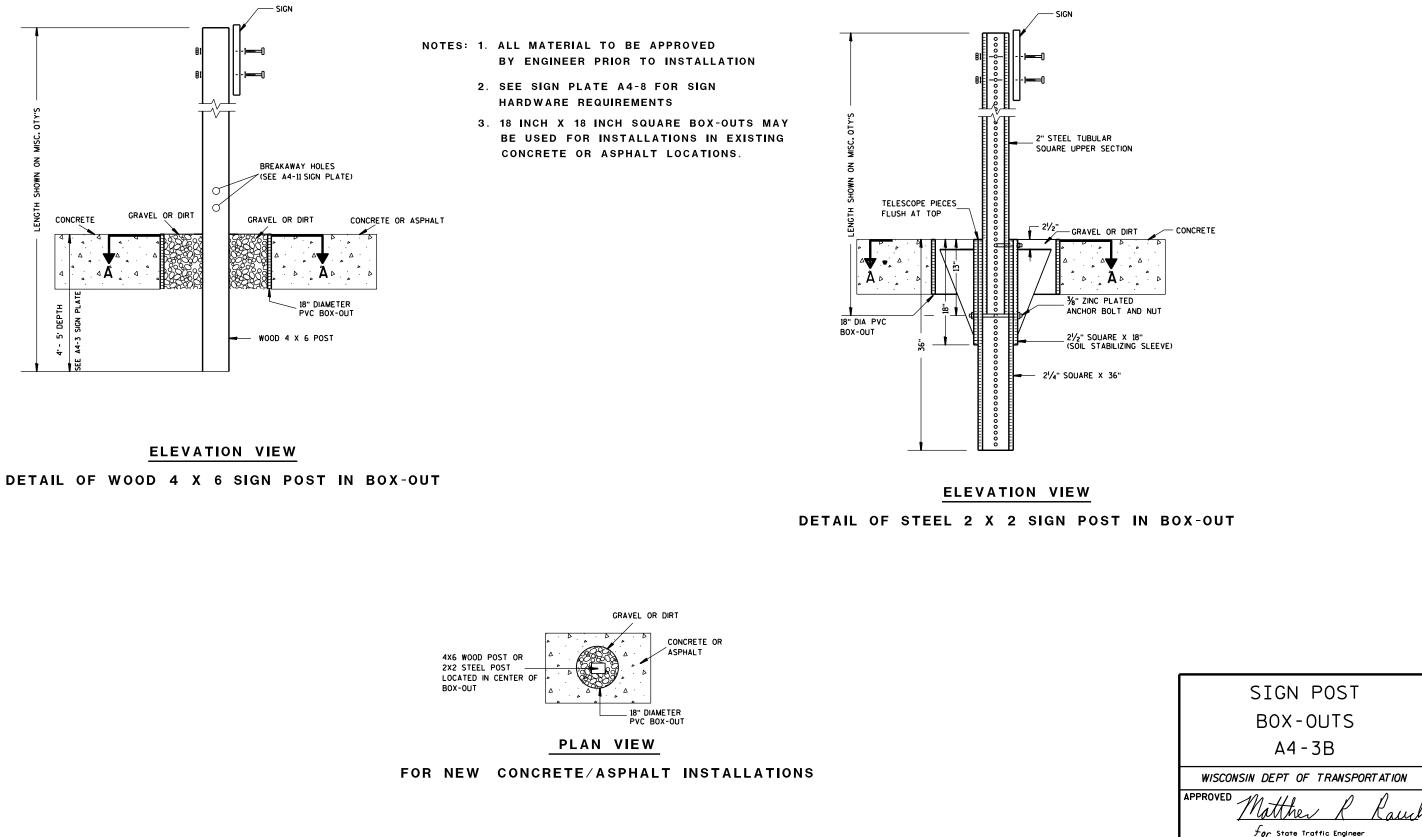


PROJECT NO:	HWY:	COUNTY:			
			DI AT DITE : 47 HUN 0000 4 4	DI OT DY IN IO	DLOT NAME -

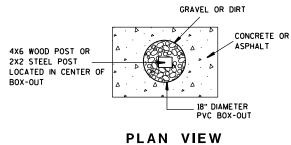
#### GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4. 2. If signs are mounted on or behind barrier wall. see A4-10 sian plate. 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'' (+). 3. For expressways and freeways, mounting height is 7'- 3" ( $\pm$ ) or  $6'-3''(\pm)$  depending upon existence 4. Minimum mounting height for signs mounted on traffic signal poles is 5' - 3'' (+). 5. Offset distance shall be consistent with existing signs or consistent throughout length of project. 6. The (+) tolerance for mounting 7. Folding signs shall be mounted at a height of 5'-3"  $(\pm)$  or as directd by the Engineer.

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	TYPICAL INSTALLATION
	OF PERMANENT TYPE II
	SIGNS ON SINGLE POSTS
	WISCONSIN DEPT OF TRANSPORTATION
	APPROVED Matthew & Rauch For state Traffic Engineer
	DATE <u>5/13/202</u> 0 PLATE NO. <u>44-3.22</u>
	SHEET NO: E
PLOT SCALE : \$\$	WISDOT/CADDS SHEET 42



7



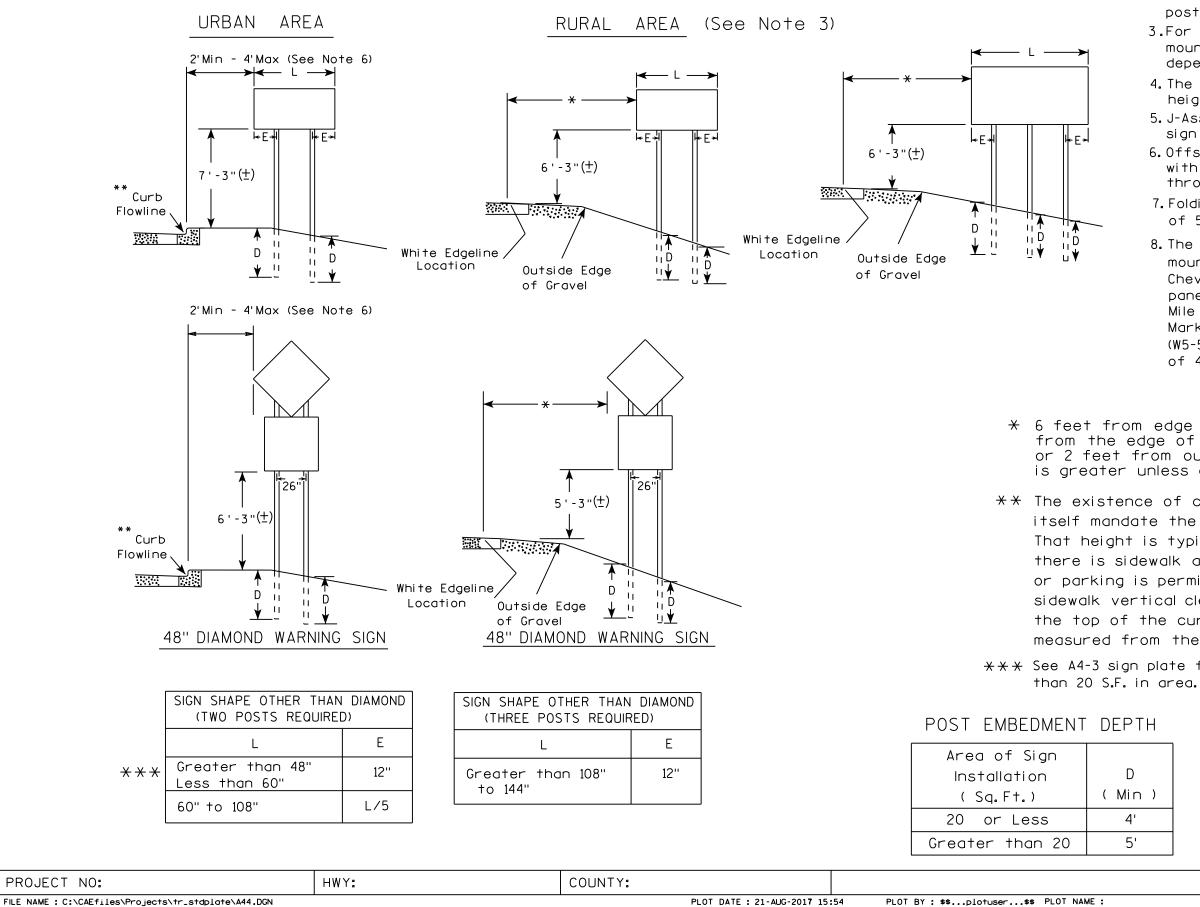
PROJECT NO:	HWY:	COUNTY:				
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN			PLOT DATE : 27-JAN-2014 09:4	8	PLOT BY : mscsja	PLOT NAME :

DATE <u>1/27/14</u>

SHEET NO:

PLATE NO. <u>A4-3B.1</u>

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FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A44.DGN

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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  $7'-3''(\pm)$  or  $6'-3''(\pm)$ 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.

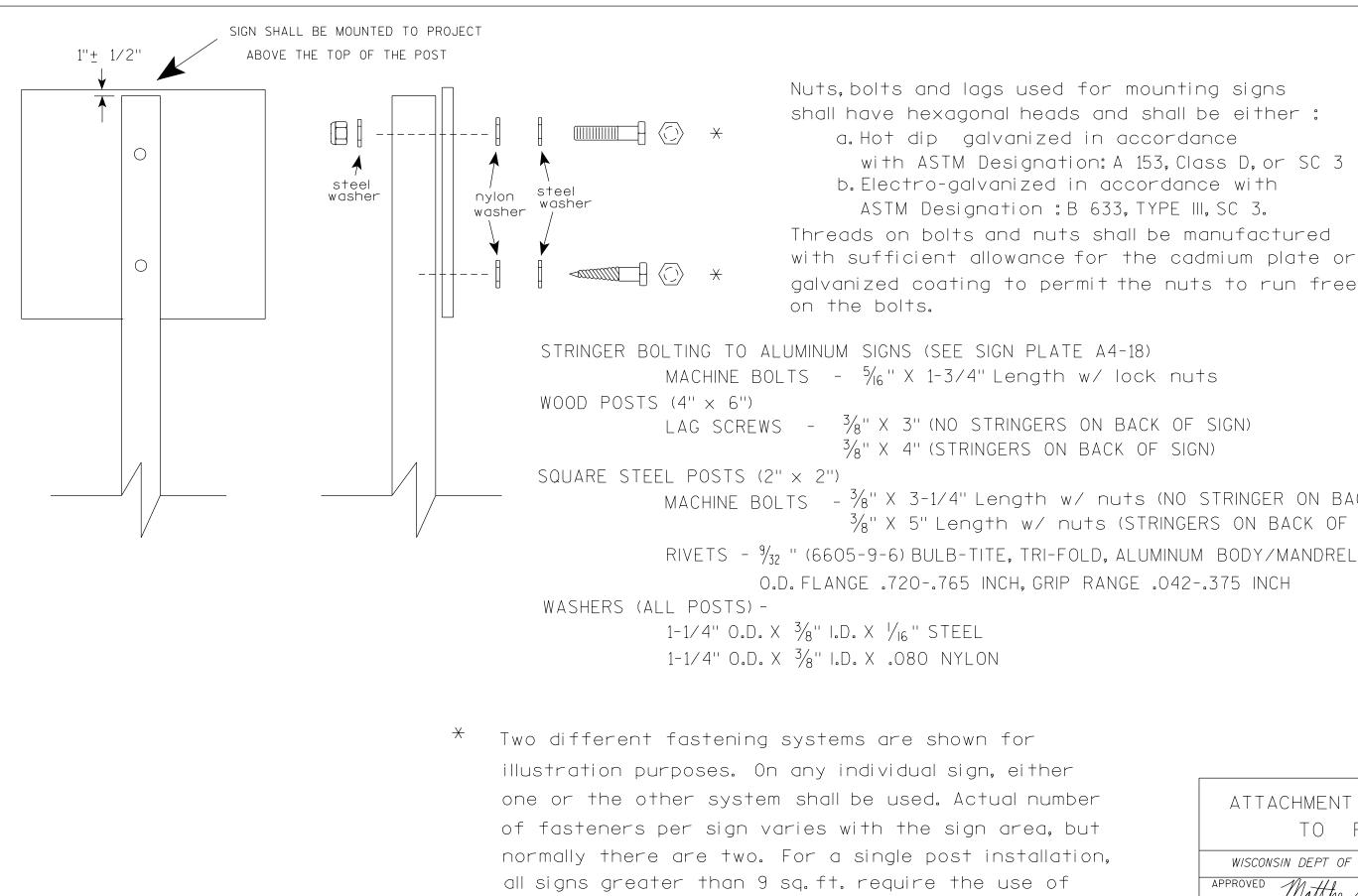
\*\* The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

 $\times$   $\times$  See A4-3 sign plate for signs 4' or less in width and less

H	TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS
)	WISCONSIN DEPT OF TRANSPORTATION
,	APPROVED Matther & Rauch
	For State Traffic Engineer
	DATE 8/21/17 PLATE NO. 44-4.15
	SHEET NO: E
DI AT. CA	L 5 - 100 100007-1 00000

PLOT SCALE : 108.188297:1.000000

WISDOT/CADDS SHEET 42



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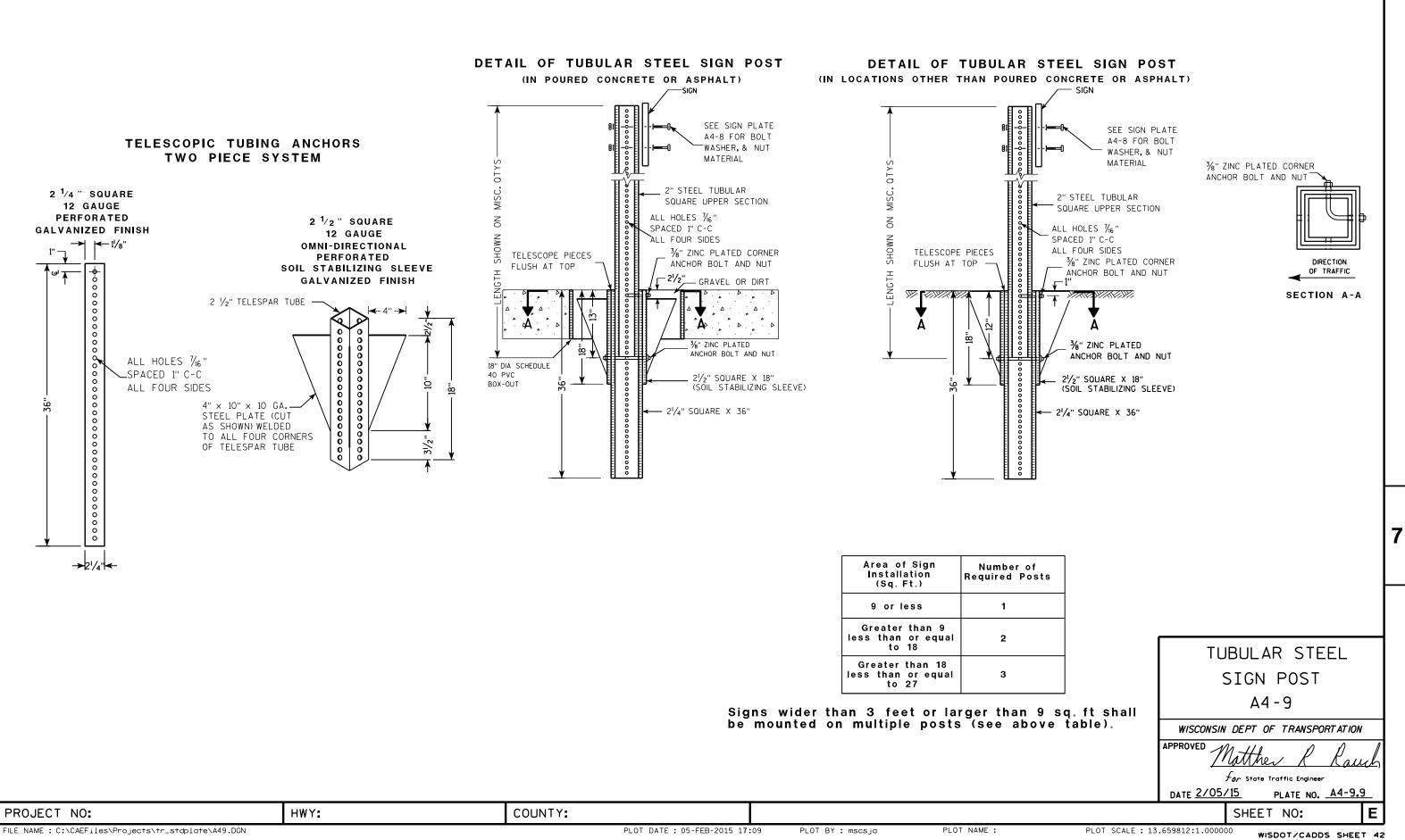
3 fasteners.

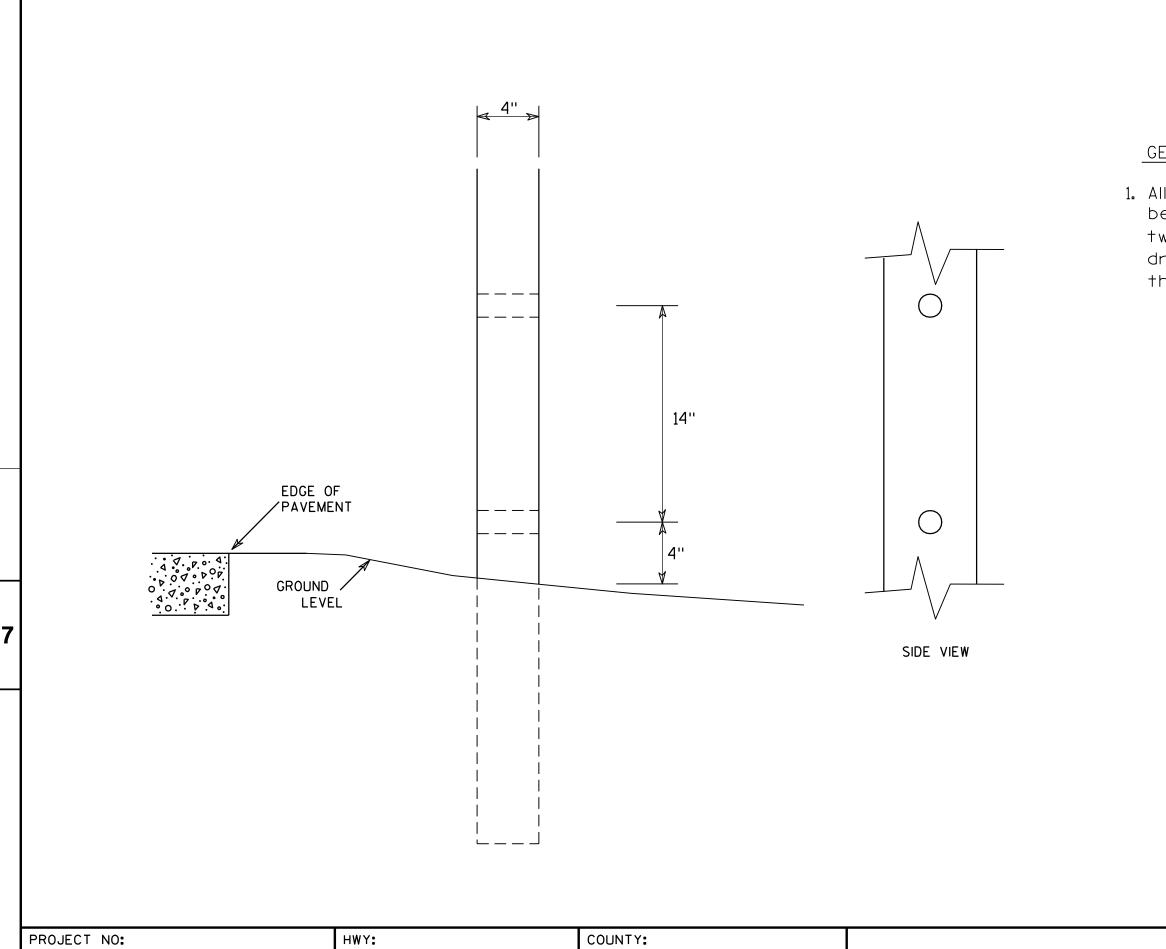
Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either : a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3 b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3. Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely

 $\frac{3}{8}$ " X 4" (STRINGERS ON BACK OF SIGN)

MACHINE BOLTS - <sup>3</sup>/<sub>8</sub>" 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)

ATTACHMENT OF SIGNS TO POSTS
WISCONSIN DEPT OF TRANSPORTATION
APPROVED Matthew R Rauch
∽°r State Traffic Engineer
DATE <u>4/1/202</u> 0 PLATE NO. <u>A4-8.9</u>
SHEET NO: E



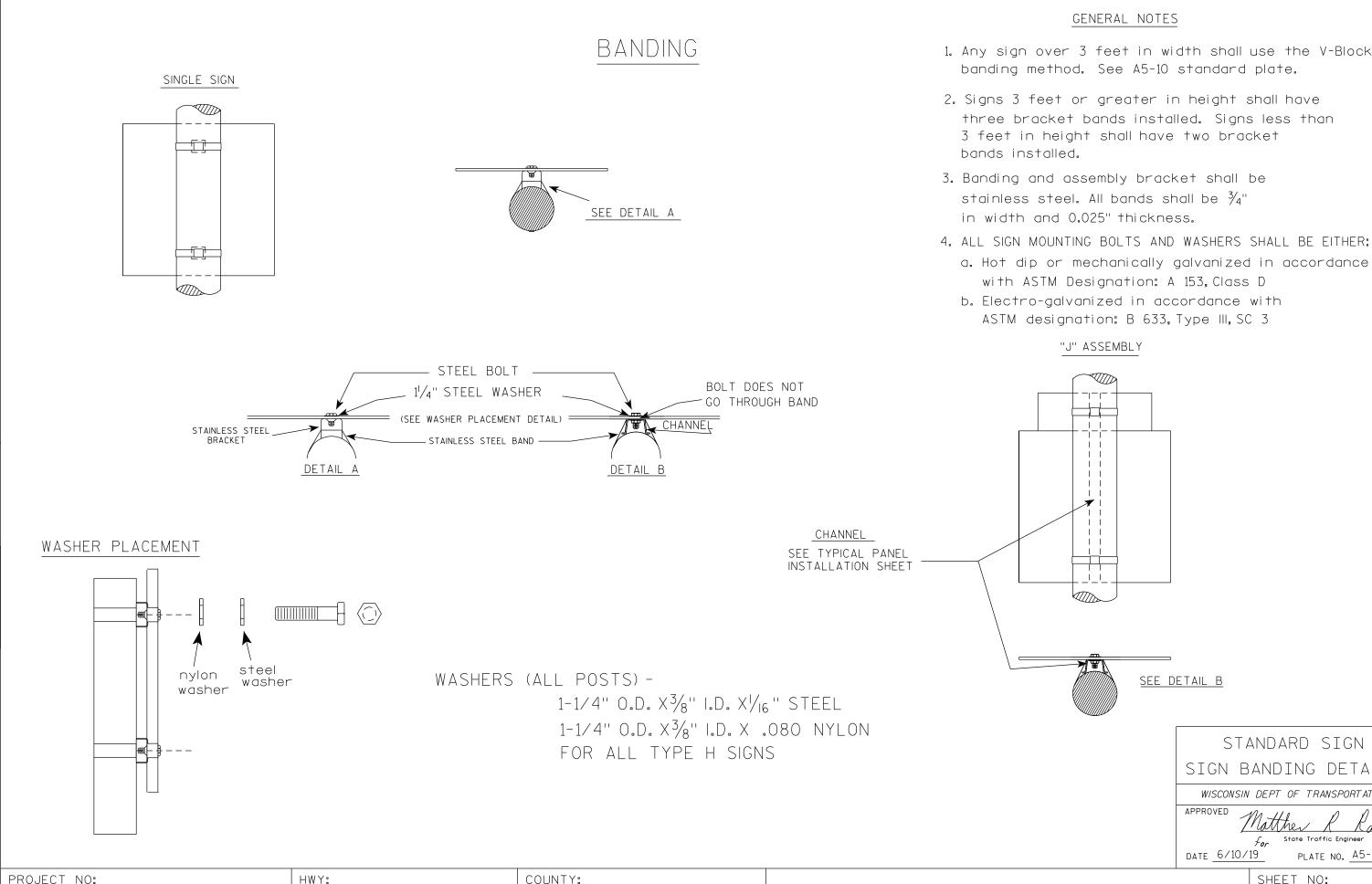


FILE NAME : C:\Users\Projects\tr\_stdplate\A411.DGN

#### GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two  $1\frac{1}{2}$ " diameter holes drilled perpendicular to the roadway centerline.

	4	Хe	ô	WOO	DF	POST		
	MODIFICATIONS							
	WISCONSIN DEPT OF TRANSPORTATION							
	APPROVED Chester J Spane							
	for State Traffic Engineer							
	DATE 3	/27/9	<u>17</u>	PLA	TE NO	<u>A4-11.2</u>	2	
	SHEET NO: E							
OT SCALE	T SCALE : 6.207338:1.000000 WISDOT/CADDS SHEET 42							



FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A59.dgn

7

PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME :

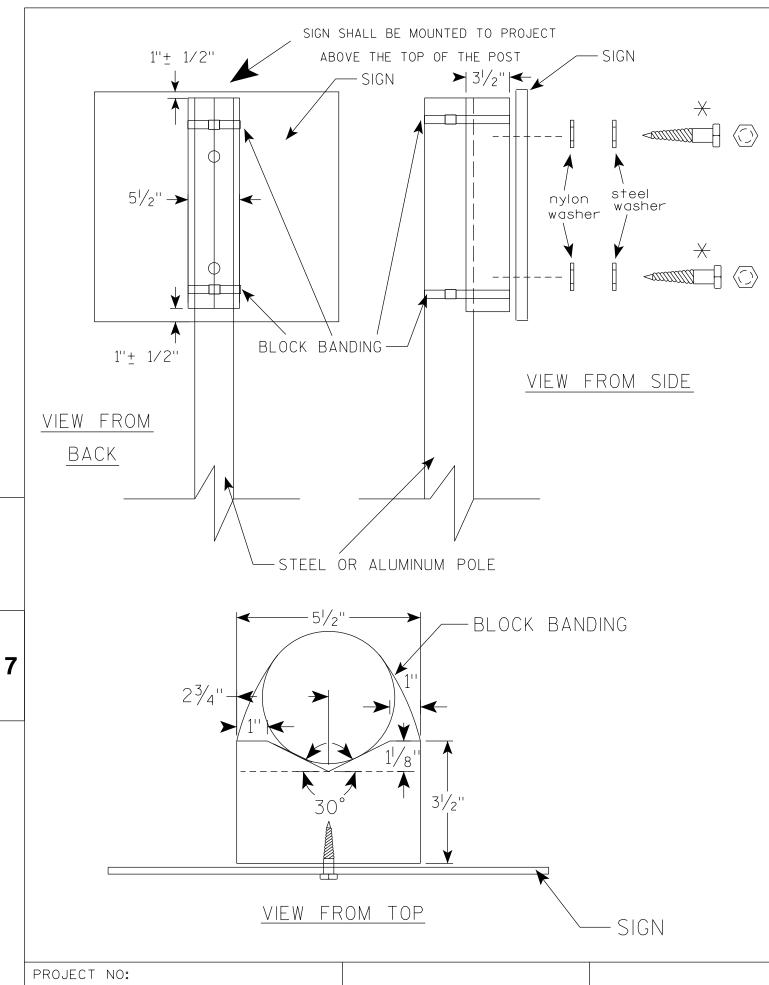
#### GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.

three bracket bands installed. Signs less than 3 feet in height shall have two bracket

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

	<u>SEE DETAIL B</u>
	STANDARD SIGN
	SIGN BANDING DETAILS
	WISCONSIN DEPT OF TRANSPORTATION
	APPROVED Matthe Rauch
	DATE 6/10/19 PLATE NO. 45-9.4
	SHEET NO: E
PLOT S	CALE : \$\$plotscale\$\$ WISDOT/CADDS SHEET 42



## GENERAL NOTES

- WISDOT STANDARD SPECIFICATIONS
- AND 0.025" THICKNESS
- 9 S.F. 3 FASTENERS SHALL BE USED.
- 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  $1^{1}/_{4}$ " O.D. X  $\frac{3}{8}$ " I.D. X  $\frac{1}{16}$ "
- OR TYPE E EACE SIGN

 $\times$  LAG BOLTS SHALL BE  $\frac{3}{8}$ " X 2<sup>1</sup>/<sub>2</sub>"

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\A510.dgr

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE

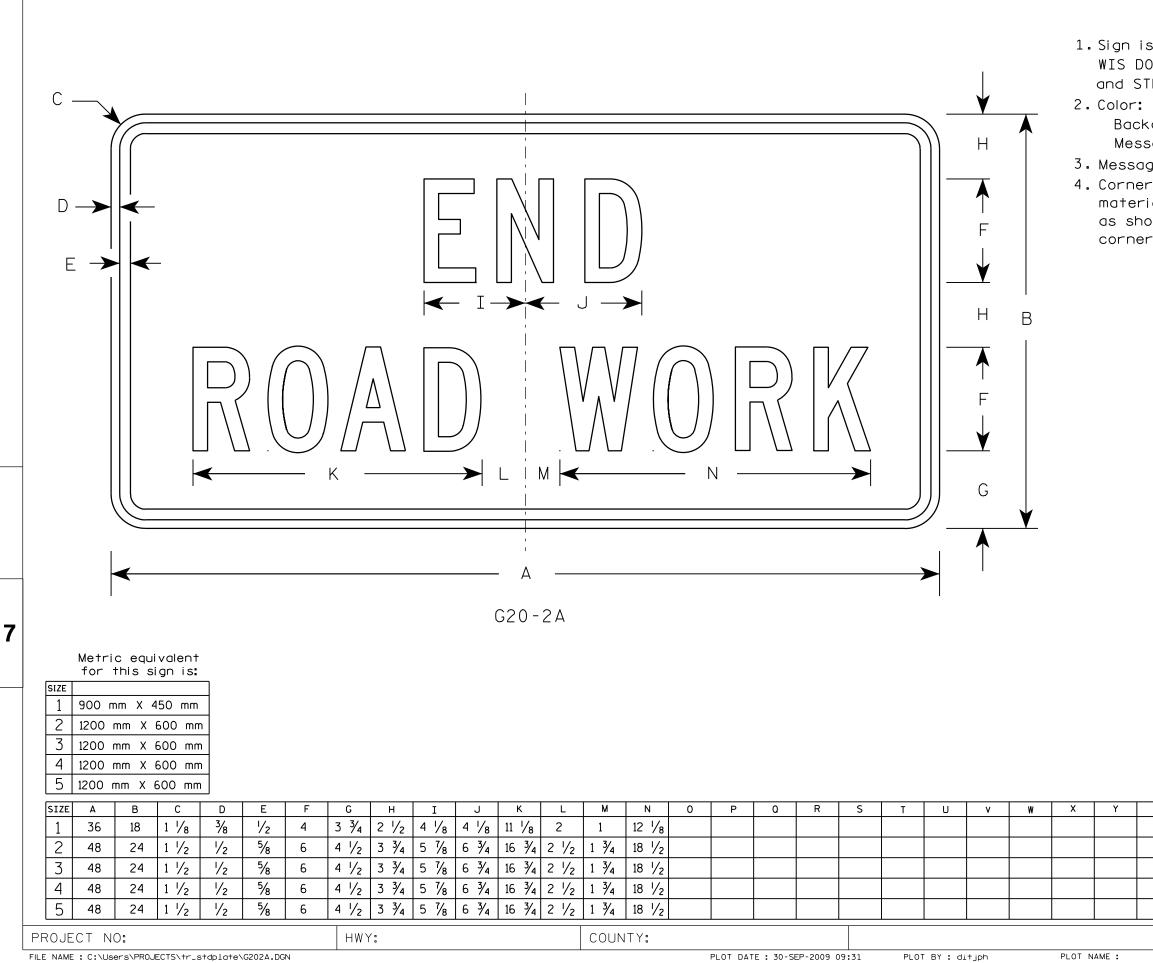
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL,  $\frac{3}{4}$ " WIDTH

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 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER: a. Hot dip or mechanically galvanized in accordance

8. NYLON WASHERS SHALL BE  $1^{1}/_{4}$ " O.D. X  $\frac{3}{8}$ " I.D. X .080 FOR TYPE H

BLOCK BANDING DETAIL ( V-BLOCK OPTION )
WISCONSIN DEPT OF TRANSPORTATION
APPROVED Matthew R Rauch
<i>for</i> State Traffic Engineer
DATE <u>4/19/2022</u> plate no. <u>45-10.3</u>
SHEET NO: E
i i i i i i i i i i i i i i i i i i i

WISDOT/CADDS SHEET 42

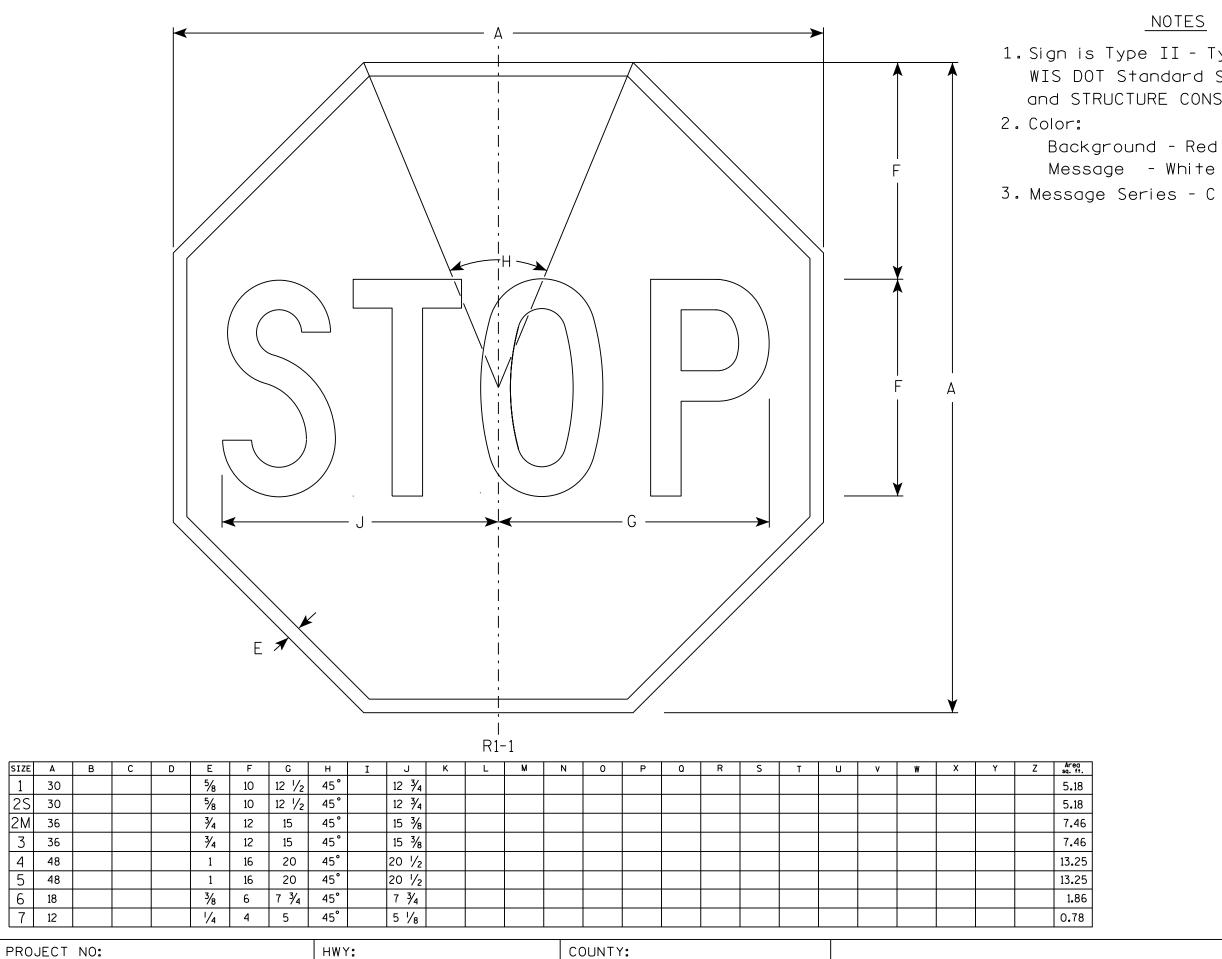


#### NOTES

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

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.

Z	Areo sq. ft.	Areo		S	<b>FANDA</b> F	RD SI(	GN	
-	4 <b>.</b> 5	0.41		G20-2A				
	8.0	0.72		WISCONSIN DEPT OF TRANSPORTATION				
	8.0	0.72		APPROVED	M.#	er R	0 1	
	8.0	0.72			· · ·	te Traffic Engin		—
	8.0	0.72		DATE <u>9/3</u>		PLATE NO.		<u>.8</u>
SHEET NO:							Ε	
	PLOT SCALE : 5.561773:1.000000 WISDOT/CADDS SHEET 42							



FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\R11.DGN

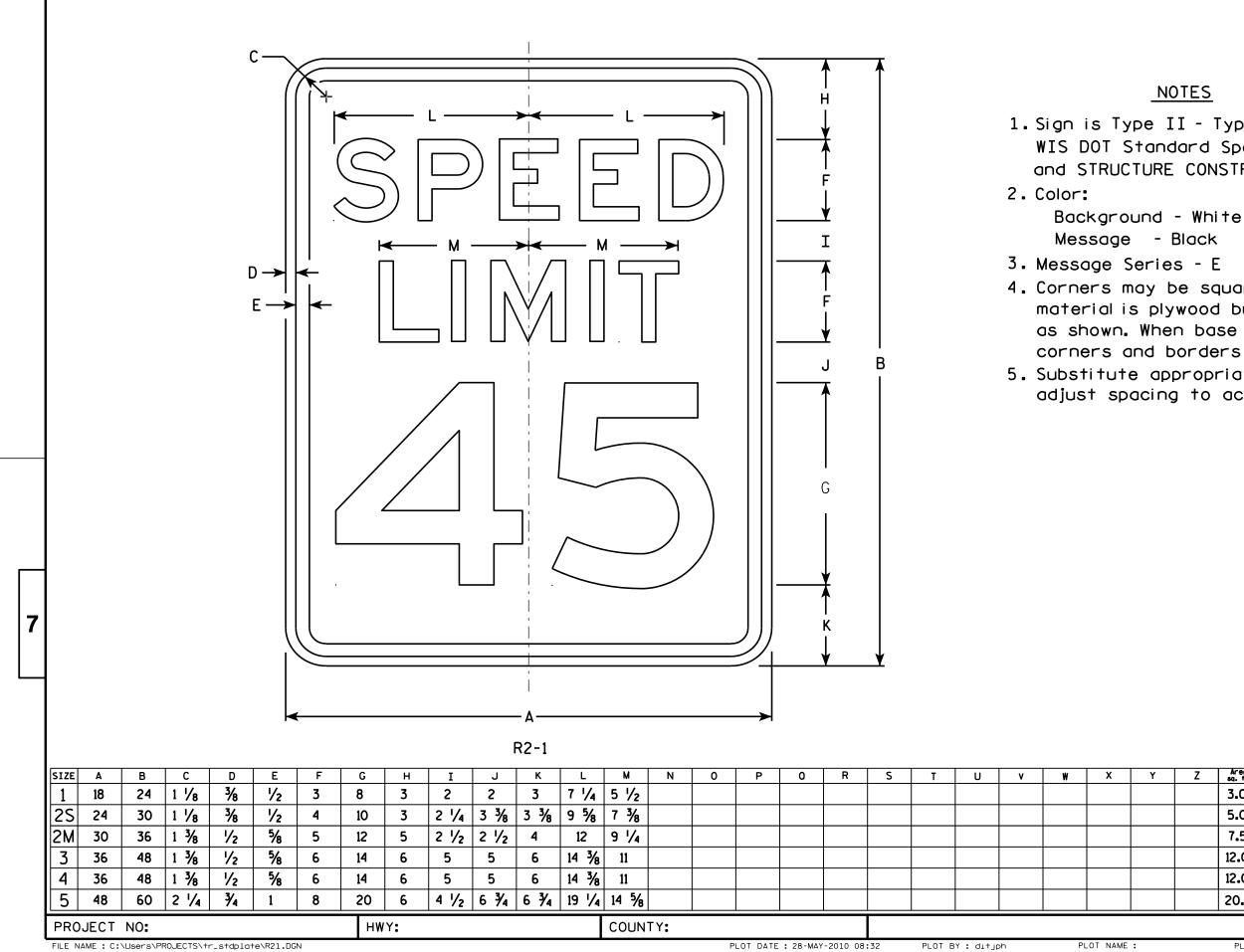
PLOT DATE : 22-AUG-2017 07:19 PLOT BY : \$\$...plotuser...\$\$ PLOT NAME :

7

NOTES

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

STANDARD SIGN
R1-1
WISCONSIN DEPT OF TRANSPORTATION
APPROVED Matther R Rauch For State Traffic Engineer
DATE <u>11/12/15</u> PLATE NO. <u>R1-1.13</u>
SHEET NO: E
PLOT SCALE : 4.427909:1.000000 WISDOT/CADDS SHEET 42



PLOT DATE : 28-MAY-2010 08:32

#### NOTES

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

4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal. the corners and borders shall be rounded. 5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

_		4100	
	Z	Areo sq. ft.	
	1	3.0	STANDARD SIGN
		5.0	R2 - 1
		7.5	WISCONSIN DEPT OF TRANSPORTATION
		12.0	APPROVED Matther R Rauch
		12.0	For State Traffic Engineer
		20.0	DATE 5/26/10 PLATE NO. R2-1.13
			SHEET NO: E

WISDOT/CADDS SHEET 42

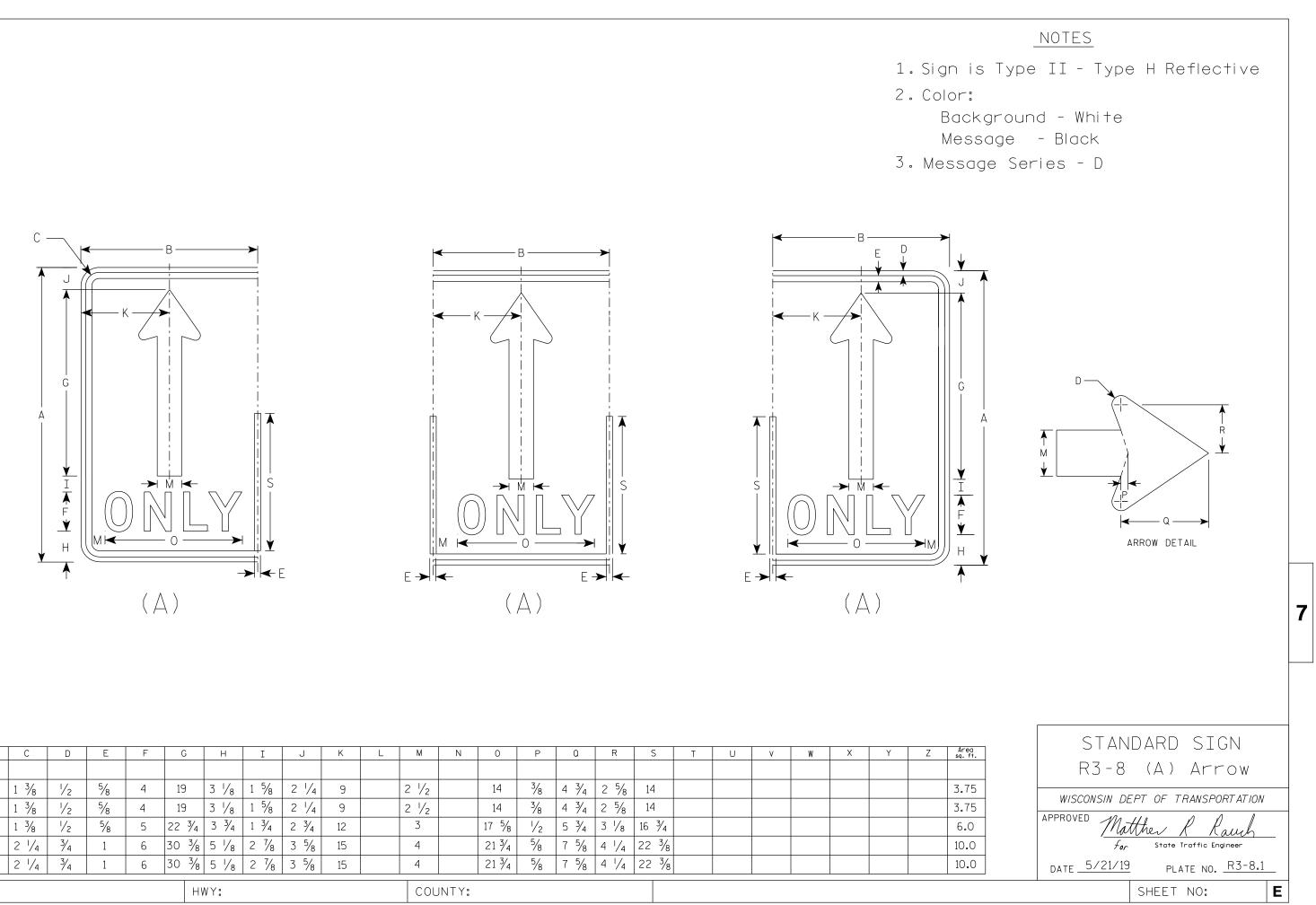
		ONLY (B)	(C)	>	<u>NOTES</u> 1. Sigs are Type II - Ty 2. Color: Background - White Message - Black 3. Message Series - D 4. Use appropriate Lette Each letter added mal 5. Square footage of si 1 Letter = 3.75 sq
		(E)	(F)	(G)	6.0 sq 10.0 sq 2 Letters = 7.5 sq 12.0 sq 20.0 sq 3 Letters = 11.25 sq 18.0 sq 30.0 sq 4 Letters = 15.0 sq
7		D NLY (L)			24.0 sq 40.0 sq 5 Letters = 18.75 sq 30.0 sq 50.0 sq 6 Letters = 22.5 sq 36.0 sq 60.0 sq 6. When letters C,D, Right end of the
	PROJECT NO:				Add the amounts these letters ar 1.25 sq ft for Si 1.5 sq ft for Si 2.0 sq ft for Si

FILE NAME : C:\CAEfiles\Projects\stdplate\_R38.dgn

PLOT NAME :

Type H Reflective

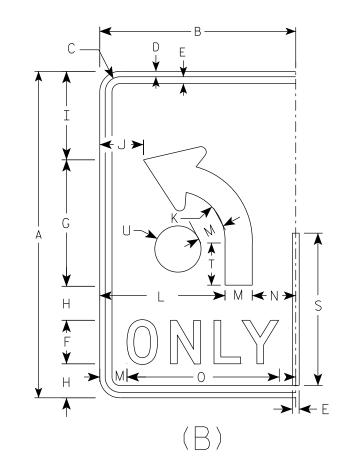
```
ter for Sign Code
akes sign wider. Example R3-8EAR
sign varies by letters
sq ft for Size 2
ft for Size 3
a ft for Size 4 or 5
ft for Size 2
g ft for Size 3
sq ft for Size 4 or 5
sq ft for Size 2
g ft for Size 3
sq ft for Size 4 or 5
g ft for Size 2
sa ft for Size 3
sq ft for Size 4 or 5
sq ft for Size 2
sq ft for Size 3
sq ft for Size 4 or 5
                                       7
a ft for Size 2
sa ft for Size 3
sq ft for Size 4 or 5
D.G.H are used on the Left or
he sign the Sq.Ft.changes.
s when
                 STANDARD SIGN
re used:
                   R3-8 Series
Size 2
               WISCONSIN DEPT OF TRANSPORTATION
Size 3
             APPROVED Matther
Size 4 or 5
                                alle
                     For State Traffic Engineer
              DATE <u>5/21/19</u> PLATE NO. <u>R3-8.1</u>
                      SHEET NO:
                                    Ε
```

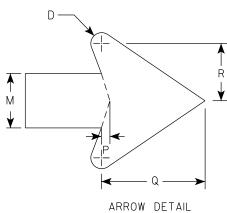


T

SIZE	А	В	С	D	E	F	G	н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	V	W	X	Y	Z
1																										
2S	30	18	1 3⁄8	1/2	5⁄8	4	19	3 1/8	1 5⁄8	2 1/4	9		2 1/2		14	3⁄8	4 3/4	2 5/8	14							
2M	30	18	1 3/8	1/2	5⁄8	4	19	3 1/8	1 5⁄8	2 1/4	9		2 1/2		14	3⁄8	4 3/4	2 5/8	14							
3	36	24	1 3/8	1/2	5⁄8	5	22 3⁄4	3 3/4	1 3⁄4	2 3⁄4	12		3		17 5⁄8	1/2	5 3⁄4	3 1/8	16 3⁄4							
4	48	30	2 1/4	3⁄4	1	6	30 3/8	5 <sup> </sup> /8	2 7/8	3 5/8	15		4		21 3⁄4	5⁄8	7 5/8	4 1/4	22 3/8							
5	48	30	2 1/4	3⁄4	1	6	30 3/8	5 <sup> </sup> /8	2 7/8	3 5/8	15		4		21 3⁄4	5⁄8	7 5/8	4 1/4	22 3/8							
PRO	JECT	NO:					Н	WY:					COL	JNTY:												
FILE NA	AME : C:	\CAEfiles	s\Project	s\stdpla	te_R38.d	Ign										PLOT [	DATE : 21	-MAY 201	9 4:38	PL	_OT BY :	mscj9h		PLOT	NAME :	

2. Color:





SIZE	А	В	С	D	E	F	G	н	I	J	K	L	М	Ν	0	P	Q	R	S	Т	U	V	W	X	Y	Z
1																										
2S	30	18	1 3⁄8	1/2	5⁄8	4	11 5⁄8	3 1/8	8 <sup> </sup> /8	4	4 1/2	11 1/2	2 1/2	4	14	3⁄8	4 3/4	2 5/8	14	3 7/8	2 1/8					
2M	30	18	1 3/8	1/2	5⁄8	4	11 5/8	3 1/8	8 1/8	4	4 <sup>1</sup> / <sub>2</sub>	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14	3 7/8	2 1/8					
3	36	24	1 3⁄8	1/2	5⁄8	5	14	3 1/2	9 3/4	6	5 3/8	15	3	6	17 5/8	1/2	5 3⁄4	3 1/8	16 3⁄4	4 5/8	2 1/2					
4	48	30	2 1/4	3⁄4	1	6	18 5/8	5 1/8	13 1/8	6 <sup> </sup> /8	7 1/4	18	4	8	21 3⁄4	5⁄8	7 5/8	4 1/4	22 3/8	6 1/4	3 3/8					
5	48	30	2 1/4	3⁄4	1	6	18	5 <sup> </sup> /8	13 1⁄8	6 1/8	7 1/4	18	4	8	21 3⁄4	5⁄8	7 5/8	4 <sup>1</sup> / <sub>4</sub>	22 3⁄8	6 1/4	3 3/8					
PRC	JECT	NO:																								

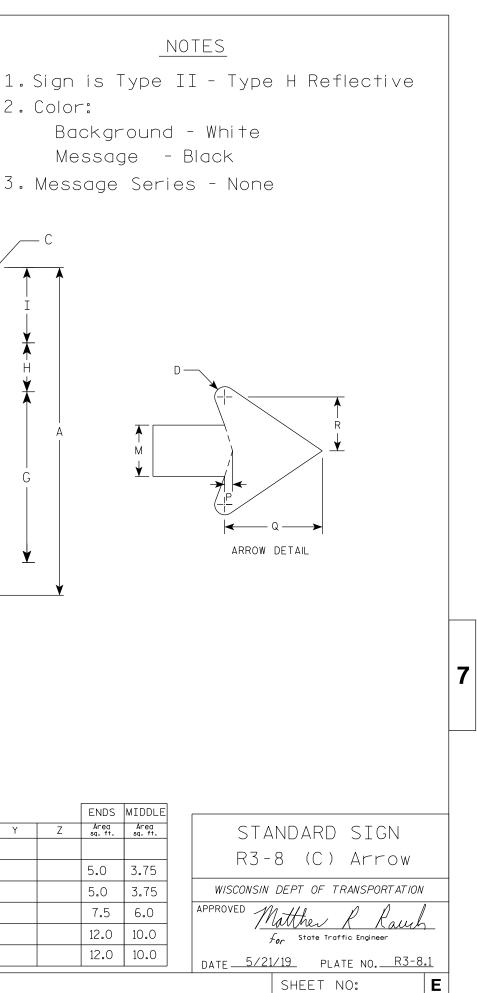
FILE NAME : C:\CAEfiles\Projects\stdplate\_R38.dgn

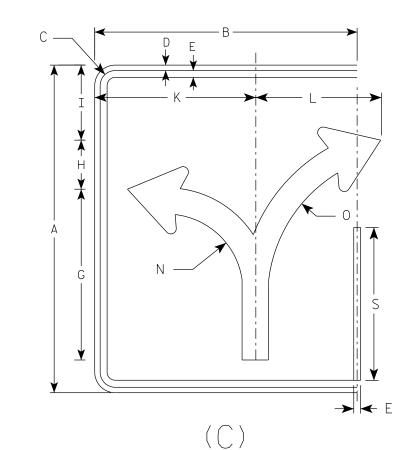
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NOTES
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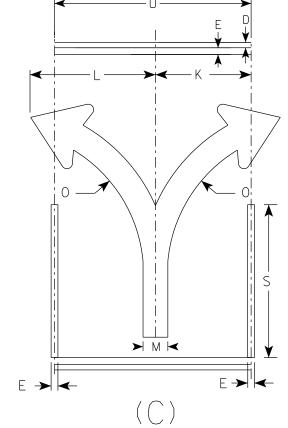
```
1. Sign is Type II - Type H Reflective
    Background - White
    Message – Black
```

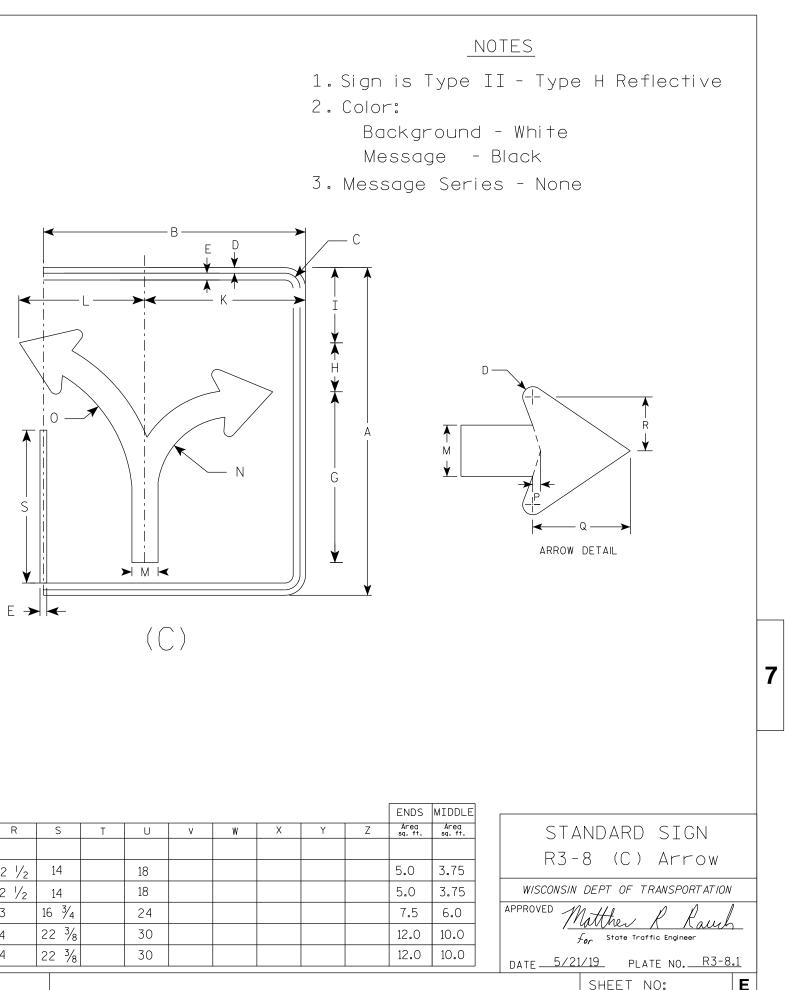
Message Series - D

Z	Area sq. ft.	STANDARD SIGN
		R3-8 (B) Arrow
	3.75	T(J O (D) ATTOW
	3.75	WISCONSIN DEPT OF TRANSPORTATION
	6.0	APPROVED Matthew & Rouch
	10.0	For State Traffic Engineer
	10.0	DATE <u>5/21/19</u> PLATE NO. <u>R3-8.1</u>
		SHEET NO: E









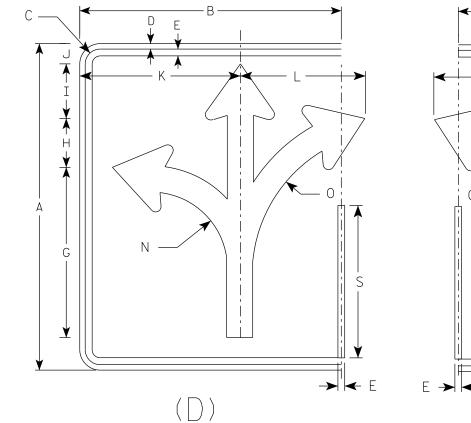
		_																								
SIZE	А	В	С	D	E	F	G	Н	I	C	К	L	М	N	0	Ρ	Q	R	S	Т	U	V	W	Х	Y	
1																										
2S	30	24	1 3/8	1/2	5⁄/8		15 5/8	4 <sup>1</sup> / <sub>2</sub>	6 1/8		14 3⁄4	11 1/2	2 3/8	7	13 1/4	3⁄8	4 <sup>1</sup> / <sub>2</sub>	2 1/2	14		18					
2M	30	24	1 3/8	1/2	5⁄8		15 5/8	4 1/2	6 7/8		14 3⁄4	11 1/2	2 3/8	7	13 1/4	3⁄8	4 1/2	2 1/2	14		18					
3	36	30	1 3/8	1/2	5⁄8		18 3⁄4	5 ½	8 <sup>1</sup> /4		17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 ½	3	16 3⁄4		24					
4	48	36	2 1/4	3⁄4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5⁄8	7 1/8	4	22 3/8		30					
5	48	36	2 1/4	3⁄4	1		24 7/8	7 1/4	11		23 1/8	18	3 3/4	11 1/8	21 1/4	5⁄8	7 1/8	4	22 3/8		30					
PRO	JECT	NO:					н	NY:					COU	NTY:												
FILE NA	ME : C:	\CAEfile	es\Project	ts\stdplo	ote_R38.d	gn	•									PLOT DA	ATE : 21-M	MAY 2019	4:38	PLOT	Γ BY : ms	scj9h		PLOT N	AME :	

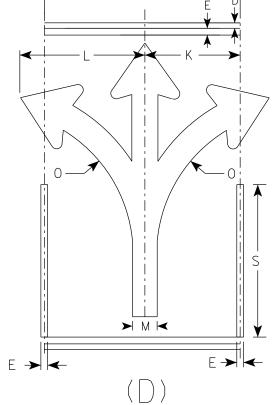
7

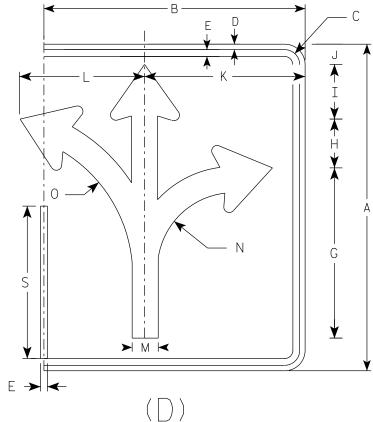
PLOT DATE : 21-MAY 2019 4:38

2. Color:









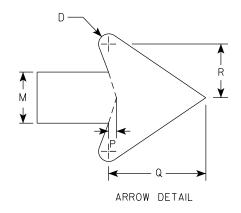
SIZE	Α	В	С	D	E	F	G	н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	v	W	Х	Y	Z
1																										
2S	30	24	1 3/8	1/2	5⁄8		15 5/8	4 1/2	5	1 7/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3⁄8	4 1/2	2 1/2	14		18					
2M	30	24	1 3/8	1/2	5⁄8		15 5/8	4 1/2	5	1 1/8	14 3/4	11 1/2	2 3/8	7	13 1/4	3⁄8	4 1/2	2 1/2	14		18					
3	36	30	1 3/8	1/2	5⁄8		18 3⁄4	5 1/2	6	2 1/4	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 <sup> </sup> / <sub>2</sub>	3	16 3⁄4		24					
4	48	36	2 1/4	3⁄4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5⁄8	7 1/8	4	22 3/8		30					
5	48	36	2 1/4	3⁄4	1		24 7/8	7 1/4	7 7⁄8	3 1/8	23 1/8	18	3 3⁄4	11 1/8	21 1/4	5⁄8	7 1/8	4	22 3/8		30					
PRC	JECT	NO:					Н	WY:					COU	NTY:												

FILE NAME : C:\CAEfiles\Projects\stdplate\_R38.dgn

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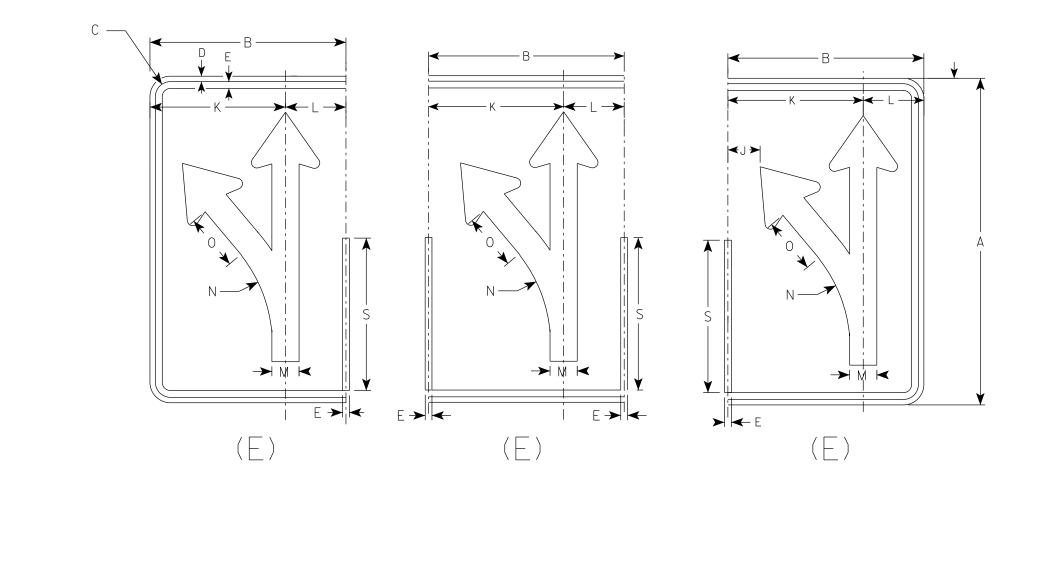
PLOT DATE : 21-MAY 2019 4:38 PLOT BY : mscj9h PLOT NAME :

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NOTES
1. Sign is Type II - Type H Reflective
    Background - White
    Message – Black
3. Message Series - None
```



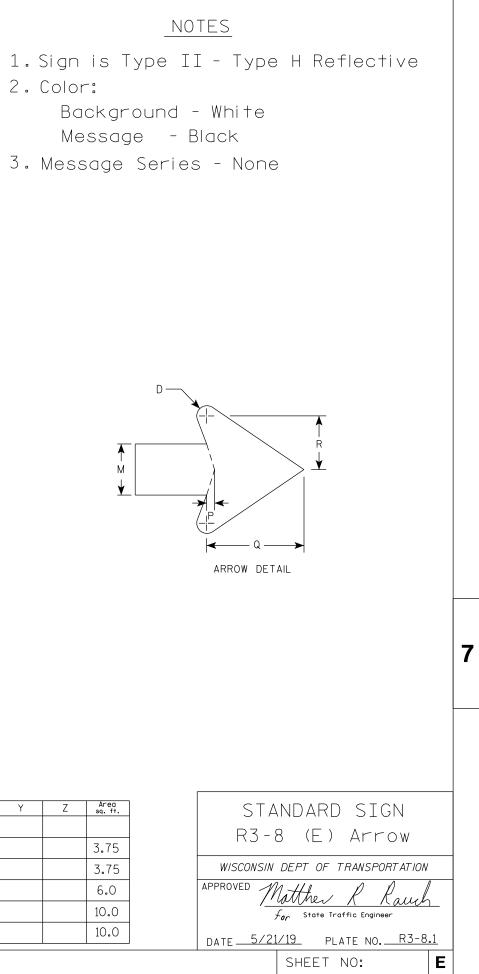
	ENDS	MIDDLE		
Ζ	Area sq. ft.	Area sq. ft.		STANDARD SIGN
				R3-8 (D) Arrow
	5.0	3.75		T(5 6 (D) ATTOW
	5.0	3.75		WISCONSIN DEPT OF TRANSPORTATION
	7.5	6.0		APPROVED Matthew & Rauch
	12.0	10.0		$f_{or}$ State Traffic Engineer
	12.0	10.0	]	DATE <u>5/21/19</u> PLATE NO. <u>R3-8.1</u>
				SHEET NO: E
	PI	LOT SCAL	E:\$	\$plotscale\$ WISDOT/CADDS SHEET 42

2. Color:



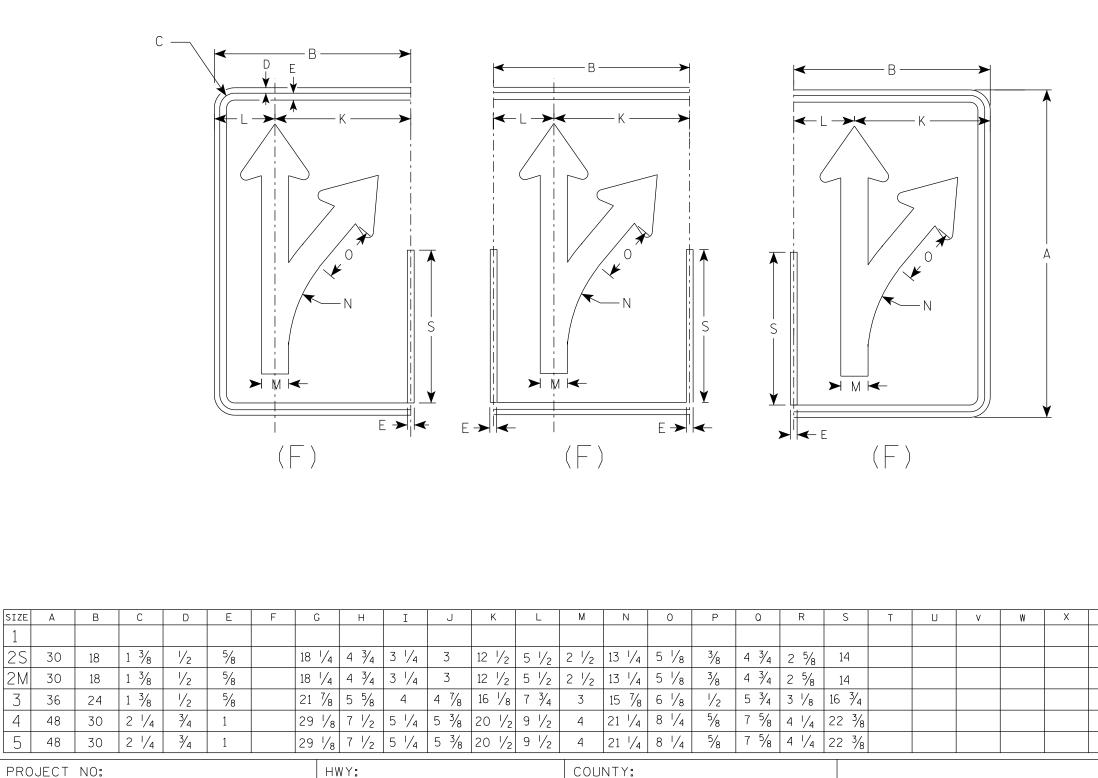
SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	Q	R	S	Т	U	V	W	Х	Y	Z
1																										
25	30	18	1 3/8	1/2	5⁄8		18 1/4	4 <sup>3</sup> ⁄4	3 1/4	3	12 1/2	$5 \frac{1}{2}$	2 1/2	13 1/4	5 1/8	3⁄8	4 <sup>3</sup> ⁄4	2	14							
2M	30	18	1 3/8	1/2	5⁄8		18 1/4	4 <sup>3</sup> ⁄4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3⁄8	4 3/4	2 5/8	14							
3	36	24	1 3/8	1/2	5⁄8		21 7⁄8	5 5/8	4	4 7/8	16 1⁄8	7 3⁄4	3	15 7/8	6 <sup> </sup> /8	1/2	5 3⁄4	3 <sup> </sup> /8	16 3⁄4							
4	48	30	2 1/4	3⁄4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/ <sub>2</sub>	4	21 1/4	8 1/4	5⁄8	7 5/8	4 <sup>1</sup> / <sub>4</sub>	22							
5	48	30	2 1/4	3⁄4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/ <sub>2</sub>	4	21 1/4	8 1/4	5⁄8	7 5/8	4 1/4	22 <u></u> 3⁄8							
PRO	JECT	NO:					Н٧	NY:					COU	NTY:												
FILE N	AME : C:	\CAEfile	es\Projec	ts∖stdpla	te_R38.d	gn										PLOT DA	TE : 21-N	MAY 2019	4:38	PLO	T BY : ms	scj9h		PLOT N	AME :	

7



1. Sign is Type II - Type H Reflective 2. Color: Background - White Message - Black

3. Message Series - None



7

1

3

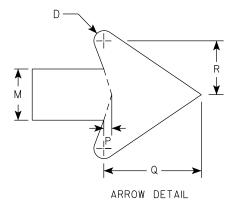
4

5

PLOT DATE : 21-MAY 2019 4:38 PLOT BY : mscj9h PLOT NAME :

Y

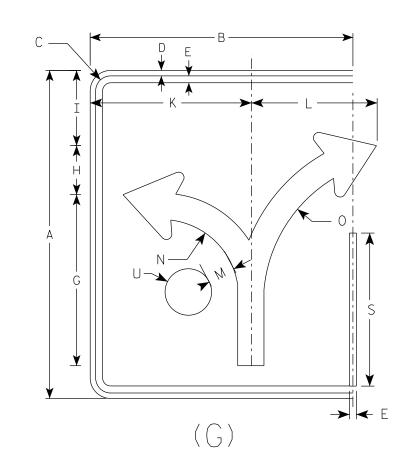
## NOTES

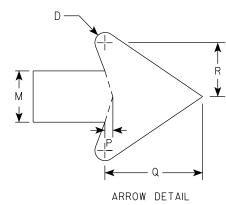


<u>Z</u>	Area sq. ft.		STANDARD SIGN
			R3-8 (F) Arrow
	3.75		113 0 117 ATTOW
	3.75		WISCONSIN DEPT OF TRANSPORTATION
	6.0		APPROVED Matthew & Rauch
	10.0		For State Traffic Engineer
	10.0		DATE <u>5/21/19</u> PLATE NO. <u>R3-8.1</u>
			SHEET NO: <b>E</b>
	Pl	_OT SCALE : \$	\$plotscale\$ WISDOT/CADDS SHEET 42

1. Sign is Type II - Type H Reflective

2. Color:





SIZE	А	В	С	D	E	F	G	н	I	J	К	L	М	N	0	P	Q	R	S	Т	U	V	w	Х	Y	
1																										
2S	30	24	1 3/8	1/2	5⁄8		15 5⁄8	4 1/2	6 7/8		14 3⁄4	11 <sup>I</sup> /2	2 3⁄8	7	13 1/4	3⁄8	4 1/2	2 1/2	14		2 1/8					
2M	30	24	1 3/8	1/2	5⁄8		15 <sup>5</sup> ⁄8	4 <sup>1</sup> / <sub>2</sub>	6 1/8		14 3⁄4	11 <sup> </sup> /2	2 3/8	7	13 1/4	3⁄8	4 <sup>1</sup> / <sub>2</sub>	2 1/2	14		2 1/8					
3	36	30	1 3/8	1/2	5⁄8		18 3⁄4	5 1/2	8 <sup>1</sup> /4		17 1/4	17 1/4	2 1/8	8 3/8	16	1/2	5 ½	3	16 3⁄4		2 1/2					
4	48	36	2 1/4	3⁄4	1		24 7/8	7 1/4	11		23 1/8	18	3 ¾	11 1/8	21 1/4	5⁄8	7 1/8	4	22 3/8		3 3/8					
5	48	36	2 1/4	3⁄4	1		24 7/8	7 1/4	11		23 1/8	18	3 3⁄4	11 1/8	21 1/4	5⁄8	7 1/8	4	22 3/8		3 3/8					
PRC	JECT	NO:					Н٧	WY:					COU	NTY:												
FILE N	AME : C:	\CAEfile	s\Projec	ts\stdplc	te_R38.d	gn										PLOT DA	TE : 21-N	MAY 2019	4:38	PLO	T BY : ms	icj9h		PLOT NA	ME :	

7

## NOTES

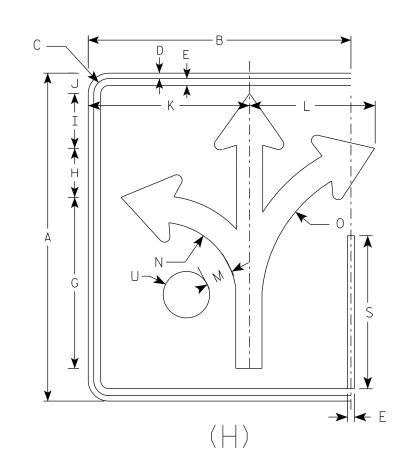
Background - White

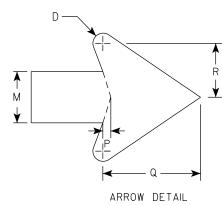
Message – Black

3. Message Series - None

Z	Area sq. ft.				RD SIG		
	5.0		K3-4	8 (6	) Arro	S W	
	5.0		WISCONSIN	DEPT OF	- TRANSPOR	TATION	
	7.5		APPROVED	atthe.	, R K	Juch	
	12.0		// /	<u> </u>	Traffic Engineer	000-01	-
	12.0		DATE <u>5/21</u>	/19_	PLATE NO	R3-8.1	<u> </u>
			1	SHEE			Ε
	Pl	_OT SCALE : \$	\$plotscale.	••••** <sub>WIS</sub>	SDOT/CADDS	SHEET	42

1. Sign is Type II - Type H Reflective 2. Color: Background - White Message – Black 3. Message Series - None





SIZE	А	В	С	D	E	F	G	н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	X	Y	
1																										
25	30	24	1 3/8	1/2	5⁄8		15 5/8	4 1/2	5	1 7/8	14 3⁄4	11 <sup> </sup> /2	2 3/8	7	13 1/4	3⁄8	4 1/2	2 1/2	14		2 1/8					
2M	30	24	1 3/8	1/2	5⁄8		15 5/8	4 1/2	5	1 7/8	14 3⁄4	11 <sup>I</sup> / <sub>2</sub>	2 3/8	7	13 1/4	3⁄8	4 1/2	2 1/2	14		2 1/8					
3	36	30	1 3/8	1/2	5⁄8		18 3⁄4	5 1/2	6	3 1/8	17 1/4	17 1/4	2 7/8	8 3/8	16	1/2	5 1/2	3	16 3⁄4		2 1/2					
4	48	36	2 1/4	3⁄4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5⁄8	7 1/8	4	22 3/8		3 3/8					
5	48	36	2 1/4	3⁄4	1		24 7/8	7 1/4	7 7/8	3 1/8	23 1/8	18	3 3/4	11 1/8	21 1/4	5⁄8	7 1/8	4	22 3/8		3 3/8					
PRC	JECT	NO:					Н٧	VY:					COU	NTY:												

FILE NAME : C:\CAEfiles\Projects\stdplate\_R38.dgn

7

PLOT DATE : 21-MAY 2019 4:38 PLOT BY : mscj9h PLOT NAME :

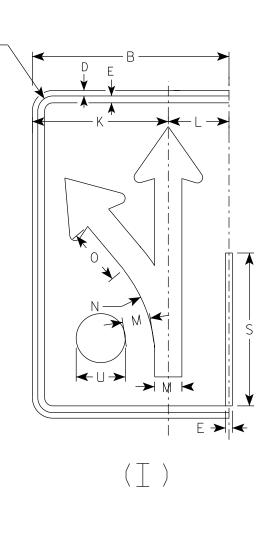
## NOTES

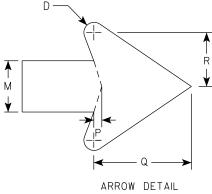
Z	Area sq. ft.	STANDARD SIGN	
		R3-8 (H) Arrov	
	5.0		v
	5.0	WISCONSIN DEPT OF TRANSPORTA	TION
	7.5	APPROVED Matthew R Rad	ul
	12.0	$f_{or}$ State Traffic Engineer	
	12.0	DATE <u>5/21/19</u> PLATE NO. <u>R</u>	3-8.1
		SHEET NO:	E
	DI		

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

2. Color:

3. Message Series - None





SIZE	А	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	Х	Y	
1																										
25	30	18	1 3/8	1/2	5⁄8		18 1/4	4 <sup>3</sup> ⁄4	3 1/4	3	12 1/2	5 1/2	2 1/2	13 1/4	5 1/8	3⁄8	4 3/4	2	14		2 1/8					
2M	30	18	1 3/8	1/2	5⁄8		18 1/4	4 <sup>3</sup> ⁄4	3 1/4	3	12 1/2	5 ½	2 1/2	13 1/4	5 <sup> </sup> /8	3⁄8	4 3/4	2 5/8	14		2 1/8					
3	36	24	1 3/8	1/2	5⁄8		21 7/8	5 5/8	4	4 7/8	16 1/8	7 3/4	3	15 7/8	6 1/8	1/2	5 3⁄4	3 1/8	16 3⁄4		2 1/2					
4	48	30	2 1/4	3⁄4	1		29 1/8	7 1/ <sub>2</sub>	5 1/4	5 3/8	20 1/2	9 ½	4	21 1/4	8 <sup>1</sup> /4	5⁄8	7 5/8	4 1/4	22 3/8		3 3/8					
5	48	30	2 1/4	3⁄4	1		29 1/8	7 1/2	5 1/4	5 3/8	20 1/2	9 1/ <sub>2</sub>	4	21 1/4	8 1⁄4	5⁄8	7 5/8	4 1/4	22 3/8		3 3/8					
PRC	ROJECT NO:     HWY:     COUNTY:																									
FILE N	AME : C:	\CAEfile	s\Project	ts\stdpla	1+e_R38.d	gn	•									PLOT DA	TE : 21-N	MAY 2019	4:38	PL0	T BY : ms	cj9h		PLOT NA	AME :	

С

7

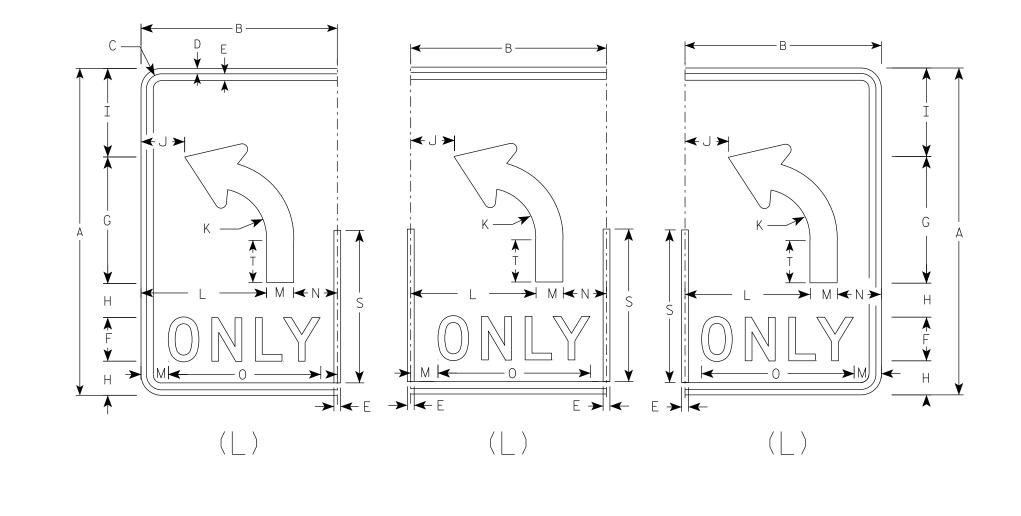
PLOT DATE : 21-MAY 2019 4:38

#### NOTES

1. Sign is Type II - Type H Reflective Background - White Message – Black

Z	Area sq. ft.	STANDARD SIGN	
	3.75	R3-8 (I) Arrow	
	3.75	WISCONSIN DEPT OF TRANSPORTATION	
	6.0	APPROVED Matther R Rauch	
	10.0	$f_{or}$ State Traffic Engineer	,
	10.0	DATE <u>5/21/19</u> PLATE NO. <u>R3-8.1</u>	
			Ε
	-		

2. Color:

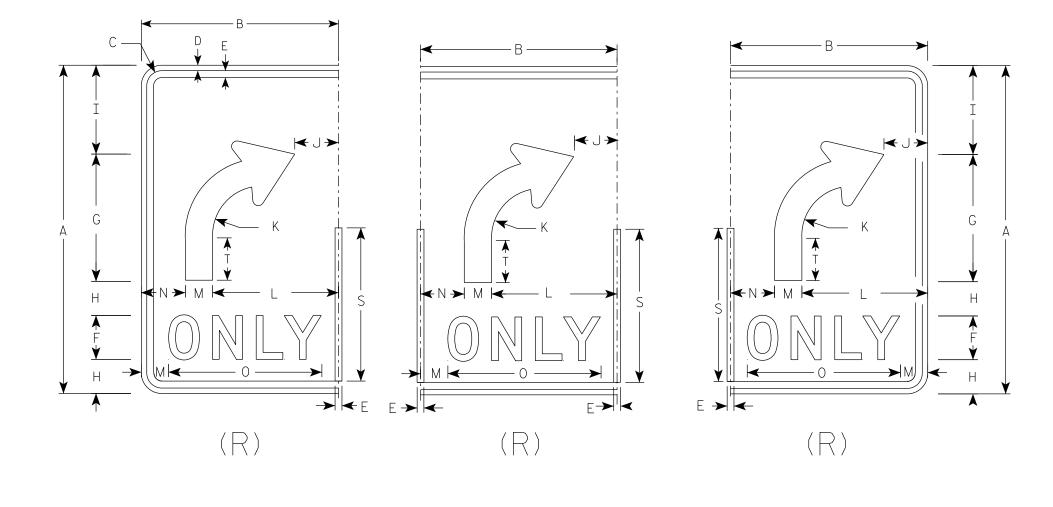


SIZE	А	В	С	D	E	F	G	н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	V	W	Х	Y	
1																										
2S	30	18	1 3/8	1/2	5⁄/8	4	11 5/8	3 1/8	8 <sup>1</sup> /8	4	4 <sup>1</sup> / <sub>2</sub>	11 1/2	2 1/2	4	14	3⁄8	4 3/4	2	14	3 7/8						
2M	30	18	1 3/8	1/2	5⁄8	4	11 5/8	3 1/8	8 <sup> </sup> /8	4	4 1/2	11 1/2	2 1/2	4	14	3⁄8	4 3/4	2 5/8	14	3 7/8						
3	36	24	1 3⁄8	1/2	5⁄8	5	14	3 1/2	9 3⁄4		5 3/8	15	3	6	17 5/8	1/2	5 3⁄4	3 1/8	16 3⁄4	4 5⁄8						
4	48	30	2 1/4	3⁄4	1	6	18 5/8	5 1/8	13 1/8	6 <sup> </sup> /8	7 1/4	18	4	8	21 3⁄4	5⁄8	7 5/8	4 <sup>1</sup> / <sub>4</sub>	22 3/8	6 <sup> </sup> /4						
5	48	30	2 1/4	3⁄4	1	6	18 5⁄8	5 1/8	13 1/8	6 <sup> </sup> /8	7 1/4	18	4	8	21 3⁄4	5⁄8	7 5/8	4 <sup>1</sup> / <sub>4</sub>	22 3/8	6 <sup> </sup> /4						
PRC	JECT	NO:																								
			s\Project	s\stdplc	1te_R38.d	lgn										PLOT D	ATE : 21-N	MAY 2019	4:38	PLOT	BY : ma	scj9h		PLOT N	AME :	



```
NOTES
1. Sign is Type II - Type H Reflective
      Background - White
     Message – Black
3. Message Series - D
         A
         M
                     ARROW DETAIL
                                                       7
                             STANDARD SIGN
        Z Area
sq. ft.
                             R3-8 (L) Arrow
            3.75
                           WISCONSIN DEPT OF TRANSPORTATION
            3.75
                        APPROVED Matther
             6.0
                                               tauch
            10.0
                                 For State Traffic Engineer
            10.0
                         DATE <u>5/21/19</u> PLATE NO. <u>R3-8.1</u>
                                                    Ε
                                  SHEET NO:
```

- 2. Color:



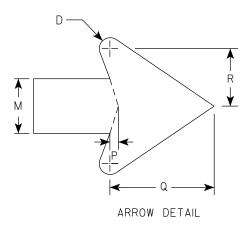
SIZE	А	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	P	Q	R	S	Т	U	V	W	X	Y	
1																										
2S	30	18	1 3/8	1/2	5⁄8	4	11 5/8	3 1/8	8 <sup> </sup> / <sub>8</sub>	4	4 1/2	11 1/2	2 1/2	4	14	3⁄8	4 3/4	2 5/8	14	3 7/8						
2M	30	18	1 3/8	1/2	5⁄8	4	11 5⁄8	3 1/8	8 1/8	4	4 1/2	11 1/2	2 1/2	4	14	3⁄8	4 3/4	2 5/8	14	3 7/8						
3	36	24	1 3/8	1/2	5⁄8	5	14	3 1/2	9 3⁄4	6	5 3/8	15	З	6	17 5⁄8	1/2	5 3⁄4	3 1/8	16 3⁄4	4 5/8						
4	48	30	2 1/4	3⁄4	1	6	18 5⁄8	5 1/8	13 1/8	6 1/8	7 1/4	18	4	8	21 3⁄4	5⁄8	7 5/8	4 <sup>1</sup> / <sub>4</sub>	22 3/8	6 1/4						
5	48	30	2 1/4	3⁄4	1	6	18 5⁄8	5 <sup> </sup> /8	13 1/8	6 1/8	7 1/4	18	4	8	21 3⁄4	5⁄8	7 5/8	4 1/4	22 3/8	6 1/4						
PRO	JECT	NO:																								

FILE NAME : C:\CAEfiles\Projects\stdplate\_R38.dgn

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PLOT NAME :

NOTES 1. Sign is Type II - Type H Reflective Background - White Message – Black 3. Message Series - D

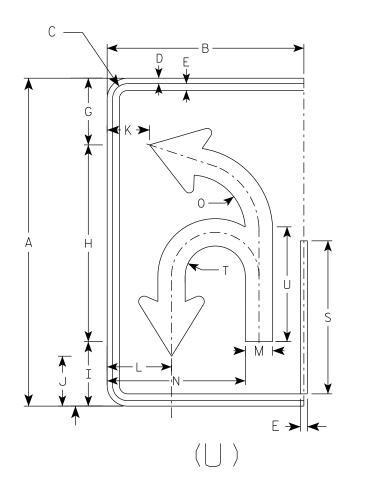


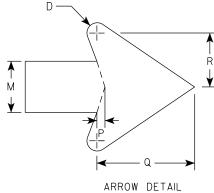
Z	Area sq. ft.	STANDARD SIGN	
		R3-8 (R) Arrow	
	3.75		
	3.75	WISCONSIN DEPT OF TRANSPORTATION	
	6.0	APPROVED Matthew R Rauch	
	10.0	For State Traffic Engineer	-
	10.0	DATE <u>5/21/19</u> PLATE NO. <u>R3-8.1</u>	_
		SHEET NO:	Ε

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

Background - White

3. Message Series - None



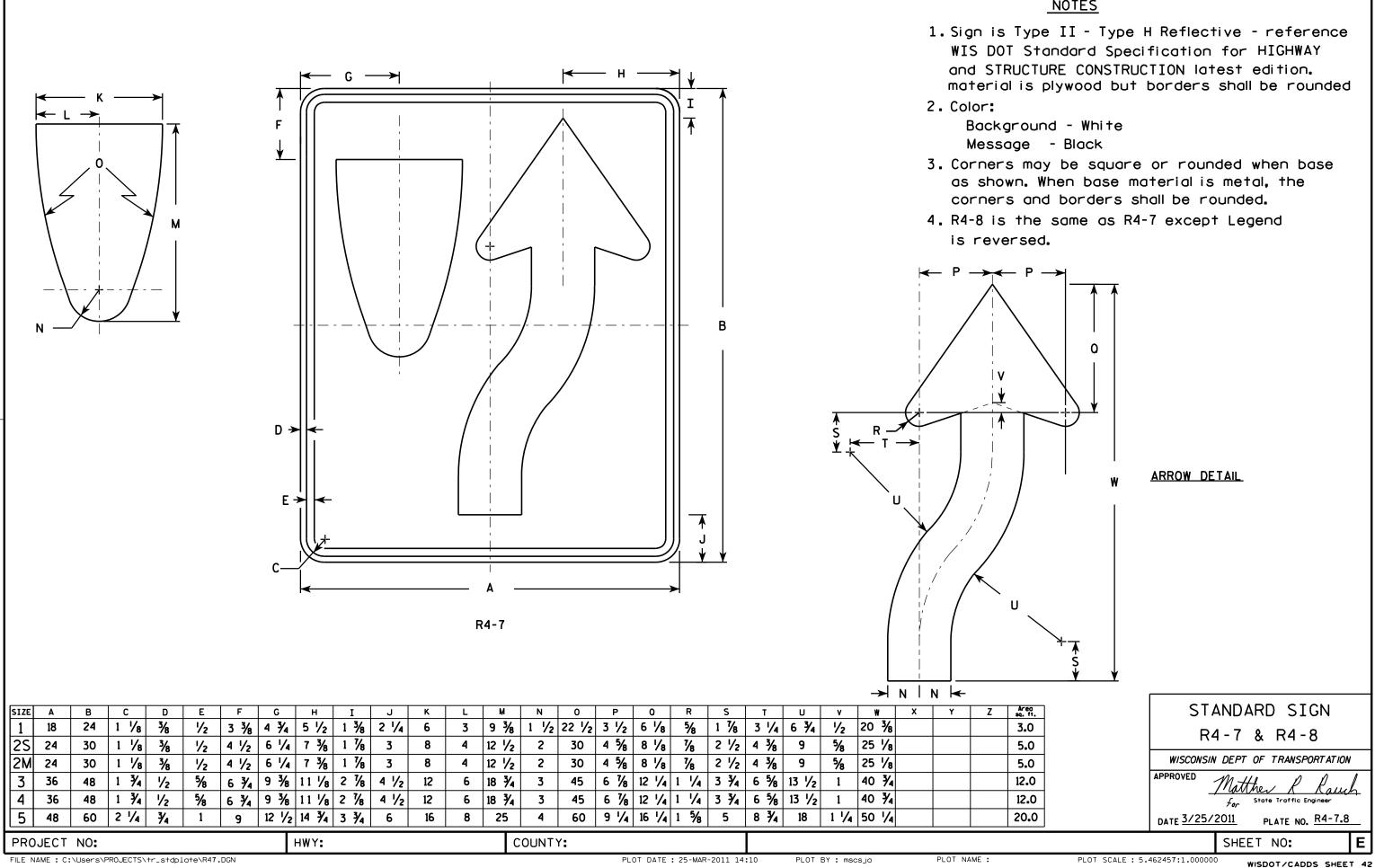


SIZE	А	В	С	D	E	F	G	н	I	J	K	L	М	N	0	Р	Q	R	S	Т	U	V	W	Х	Y	
1																										
2S	30	18	1 3⁄8	1/2	5⁄8		6 <sup> </sup> /8	18	5 7/8	4	3 7/8	5 7/8	2 1/2	12 5/8	5 <sup> </sup> /8	3⁄8	4 <sup>3</sup> ⁄4	2 5/8	14	2 3⁄4	10 1/2					
2M	30	18	1 3/8	1/2	5⁄8		6 <sup>1</sup> / <sub>8</sub>	18	5 7/8	4 <sup>5</sup> / <sub>8</sub>	3 7/8	5 7/8	2 1/2	12 5/8	5 1/8	3⁄8	4 3/4	2 5/8	14	2 3⁄4	10 1/2					
3	36	24	1 3/8	1/2	5⁄8		21 7/8	21 5⁄8	7 1/8	5 1/2	5 7/8	8 1/4	3	16 3/8	6 1/8	1/2	5 3⁄4	3 1/8	16 3⁄4	3 1/4	12 5/8					
4	48	30	2 1/4	3⁄4	1		29 1/8	28 <sup>3</sup> ⁄4	9 3/8	7 1/4	6 1/8	10	4	20 7/8	8 <sup> </sup> / <sub>8</sub>	5⁄8	7 5/8	4 1/4	22 3/8	4 3/8	16 3⁄4					
5	48	30	2 1/4	3⁄4	1		29 1/8	28 3⁄4	9 3/8	7 1/4	6 7/8	10	4	20 7/8	8 1/8	5⁄8	7 5/8	4 1/4	22 3/8	4 3/8	16 3⁄4					
5       48       30       2 1/4       3/4       1       29 1/8       28 3/4       9 3/8       7 1/4       6 7/8       10       4       20 7/8       8 1/8       5/8       7 5/8       4 1/4       22 3/8       4 3/8       16 3/4       16 3/4         PROJECT NO:       HWY:       COUNTY:																										
FILE N	AME : C:	\CAEfile	es\Project	ts\stdpla	te_R38.de	gn										PLOT DA	TE : 21-N	MAY 2019	4:38	PLO	T BY : ms	icj9h		PLOT N	AME :	

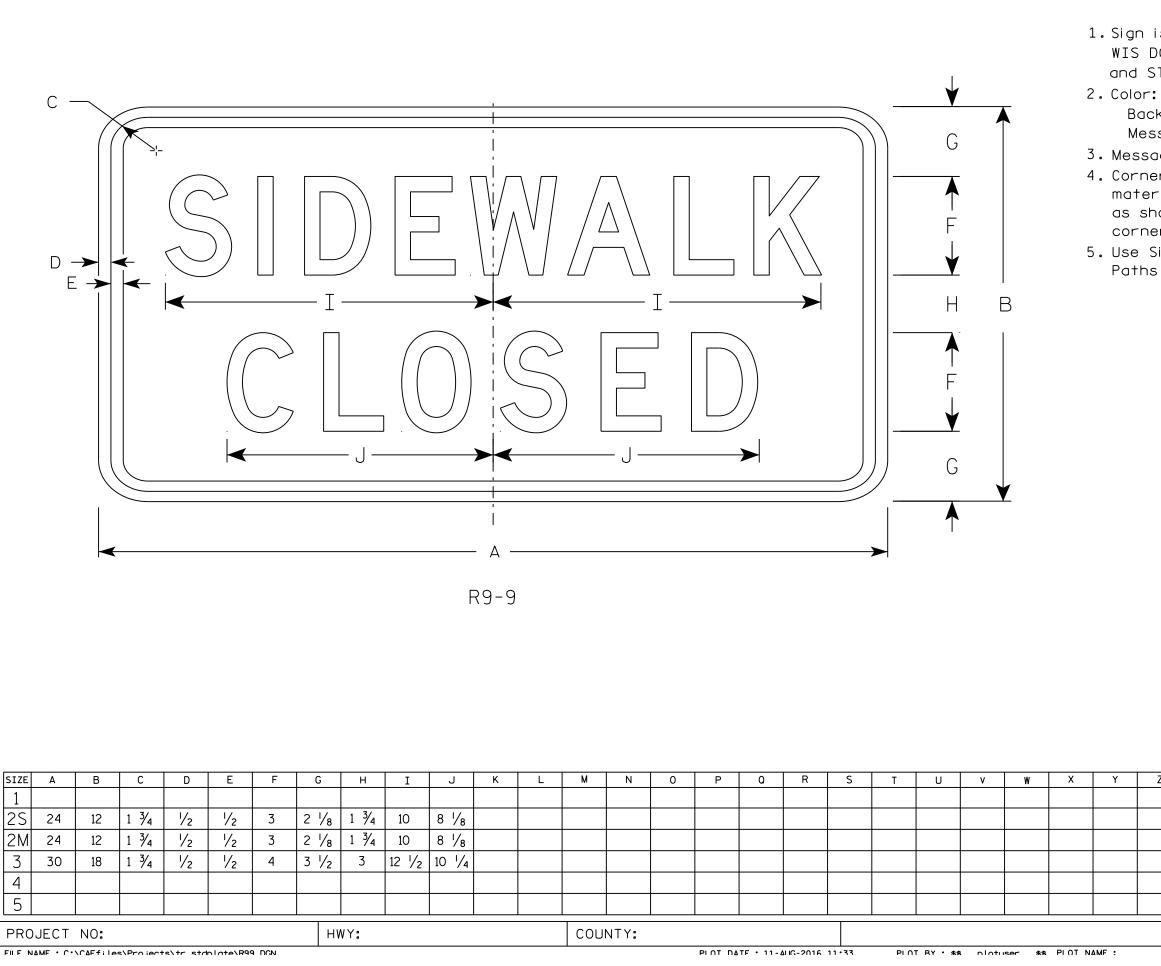
## NOTES

Message – Black

Ζ	Area sq. ft.		_		) SIGN	
	3.75		R3-8	3 (U)	Arrow	
	3.75		WISCONSIN	DEPT OF	TRANSPORTAT	ION
	6.0		APPROVED	atthe.	R Rau	h
	10.0		;	5	affic Engineer	
	10.0		DATE	. <u>/19</u> Pl	ATE NO. R3	<u>-8.1</u>
			I	SHEET		E
	Pl	LOT SCALE : \$	\$plotscale	\$\$ <sub>WISE</sub>	OT/CADDS SH	IEET 42



#### NOTES



7

#### NOTES

 Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
 Color: Background - White Message - Black
 Message Series - C
 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.
 Use Size 2 for Sidewalks. Use Size 3 for Paths and Trails.

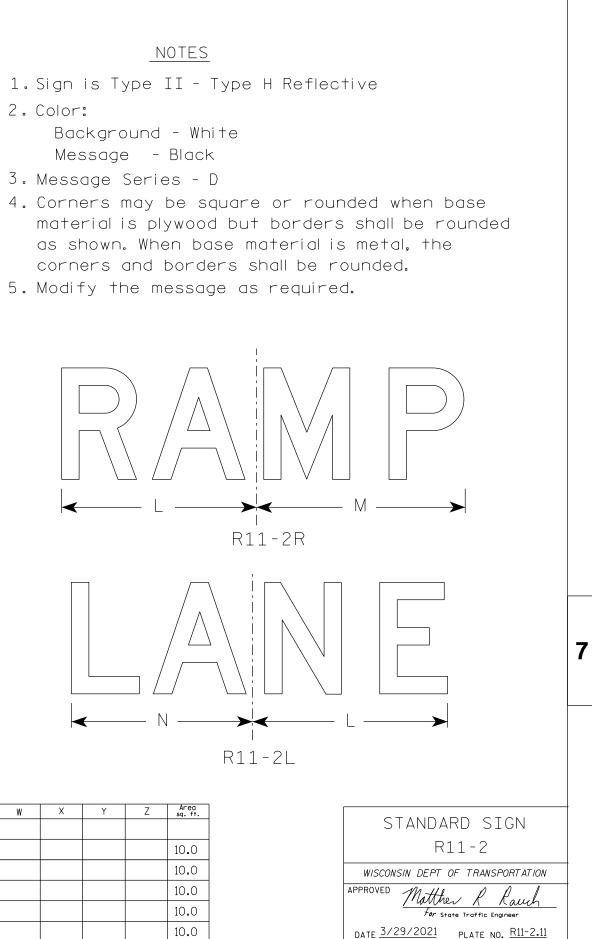
Z	Area sq. ft.	STA		) SIGN	
	2.0		R9 -	9	
	2.0	WICCONCIN		TRANSPORTATIO	
	2.0		DEFIOR		//v
	3.75	APPROVED 2	Natther	R Rain	6
			for State Tr	affic Engineer	
		DATE <u>8/11/1</u>	<u>6</u> PL	ATE NO	9.6
			SHEET	NO:	E

							— K						K ——					G ¥								
		I								R11-2																— L —
7													0-		R11-	2 T		_0_			]					
	SIZE	А	В	С	D	E	F	G	н	I J	К	L	М	N	0	P	Q	R	S	Т	U	V	W	X	Y	Z Ar sq.
	1																									
	2S	48	30	1 3/8	1/2	5⁄8	8	5	4	13 1/4 13 1/	/2 19	14	15	13	15 5⁄8											10.
	2M	48	30	1 3/8	1/2	5⁄8	8	5	4	13 1/4 13 1/		14	15	13	15 5⁄8											10.
	3	48	30	1 3/8	1/2	5⁄8	8	5	4	13 1/4 13 1/	/2 19	14	15	13	15 5⁄8											10.
	4	48	30	1 3/8	1/2	5⁄8	8	5	4	13 1⁄4 13 1⁄4		14	15	13	15 5⁄8											10.
	5	48	30	1 3/8	1/2	5⁄8	8	5	4	13 1/4 13 1/	/2 19	14	15	13	15 5⁄8											10.
	PRC	JECT	NO:						HWY:				(	COUNT	Y:											
	FILE N	IAME : C	\Users\	PROJECTS	\tr_stdp.	late\R11:	2.dgn	I					I			PLC	DT DATE :	29-MAR	2021 8:1	5	PLOT E	3Y : doto	:4c	I	PLOT NAME	Ξ:

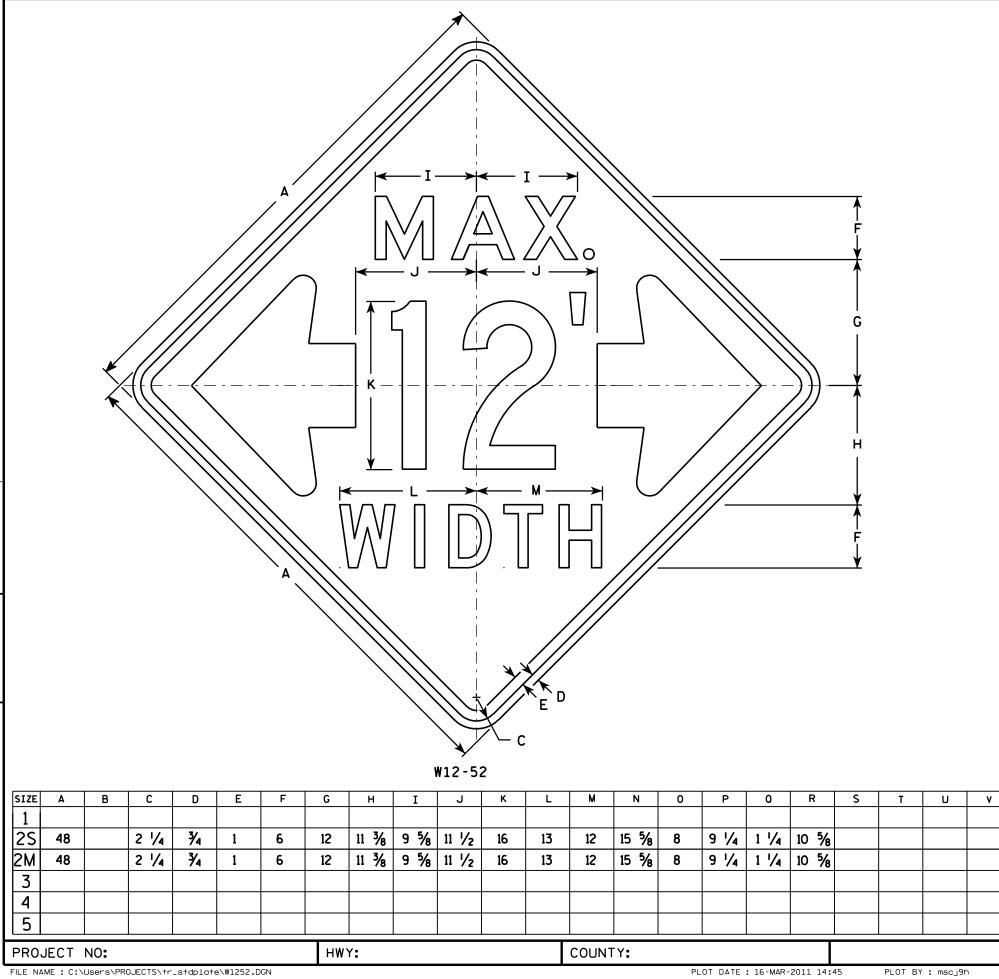
# G Ā $D \rightarrow \checkmark$ F E → V ≻≺ ΗВ

С-

- 2. Color:
- 3. Message Series D



	For sta	ite Traffic Engir	heer	
DATE <u>3/</u>	29/2021	PLATE NO.	<u>R11-2.1</u>	<u>1</u>
	SHEET	NO:		Ε



PLOT NAME :

7

W

Х

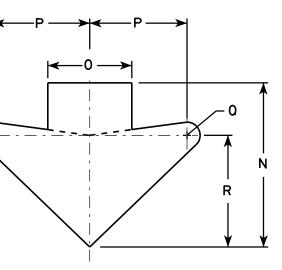
Y

#### NOTES

2. Color:

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

Background - Orange Message - Black 3. Message Series - See note 5 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded. 5. The top line is series E, the numerals are series C, and the bottom line is series D. 6. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

_							
	Z	Areo sq. ft.		ST	ANDARD S	IGN	
		16.0			W12-52		
		16.0		WISCONSI	N DEPT OF TRANS	SPORTATION	
				APPROVED	Matther R	Rauch	
				-	For State Traffic		_
				DATE	6/11 PLATE N	NO. <u>W12-52</u>	<u>.7</u>
					SHEET NO:		Ε
		PLOT S	CALE : 9.13	7199:1.000000	WISDOT/CA	DDS SHEE	г 42

				1. s 2. 3.
		ROAD	F U V S W20-1H	4.
			G G G G G G G G	
			↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	
•		W20-1A	15100 R W20-1B	
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1       8       3 $\frac{3}{4}$ 5 $\frac{1}{8}$ 15 $\frac{3}{8}$ 11 $\frac{1}{8}$ 12 $\frac{1}{8}$ 14         1       8       3 $\frac{3}{4}$ 5 $\frac{1}{8}$ 15 $\frac{3}{8}$ 11 $\frac{1}{8}$ 12 $\frac{1}{8}$ 14         1       8       3 $\frac{3}{4}$ 5 $\frac{1}{8}$ 15 $\frac{3}{8}$ 11 $\frac{1}{8}$ 12 $\frac{1}{8}$ 14         1       8       3 $\frac{3}{4}$ 5 $\frac{1}{8}$ 15 $\frac{3}{8}$ 11 $\frac{1}{8}$ 12 $\frac{1}{8}$ 14	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	5%       13       3/4       2       1/8       11       7/8       2       3/4       16       3/8         5/8       13       3/4       2       1/8       11       7/8       2       3/4       16       3/8

3 3/4 5 1/8 15 3/8 11 1/8 12 1/8 14 3/8 1 5/8

PROJECT NO:

5

48

7

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\W201.DGN

2 1/4

3/4

8

1

PLOT DATE : 25-MARCH-2020

13 7/8 4 3/8

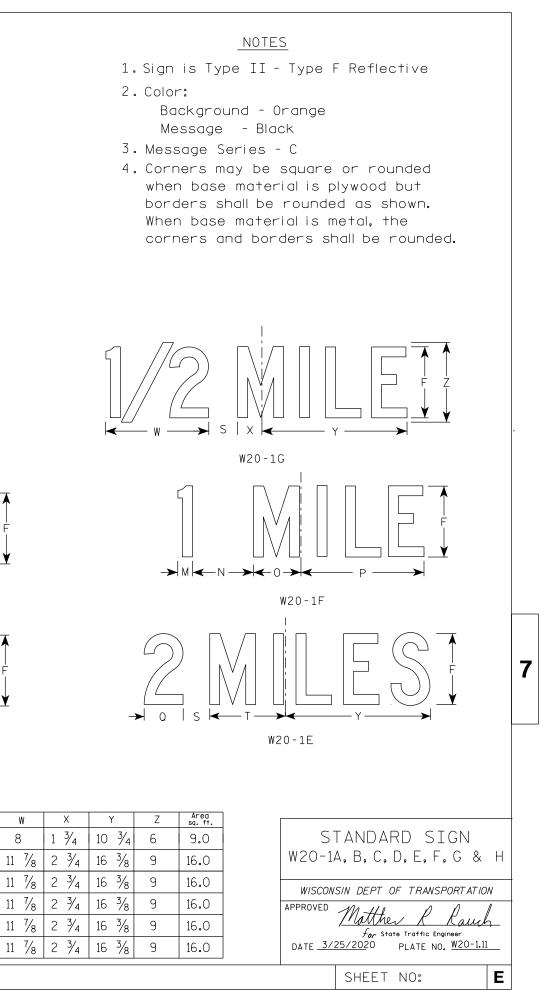
3 7/8

3

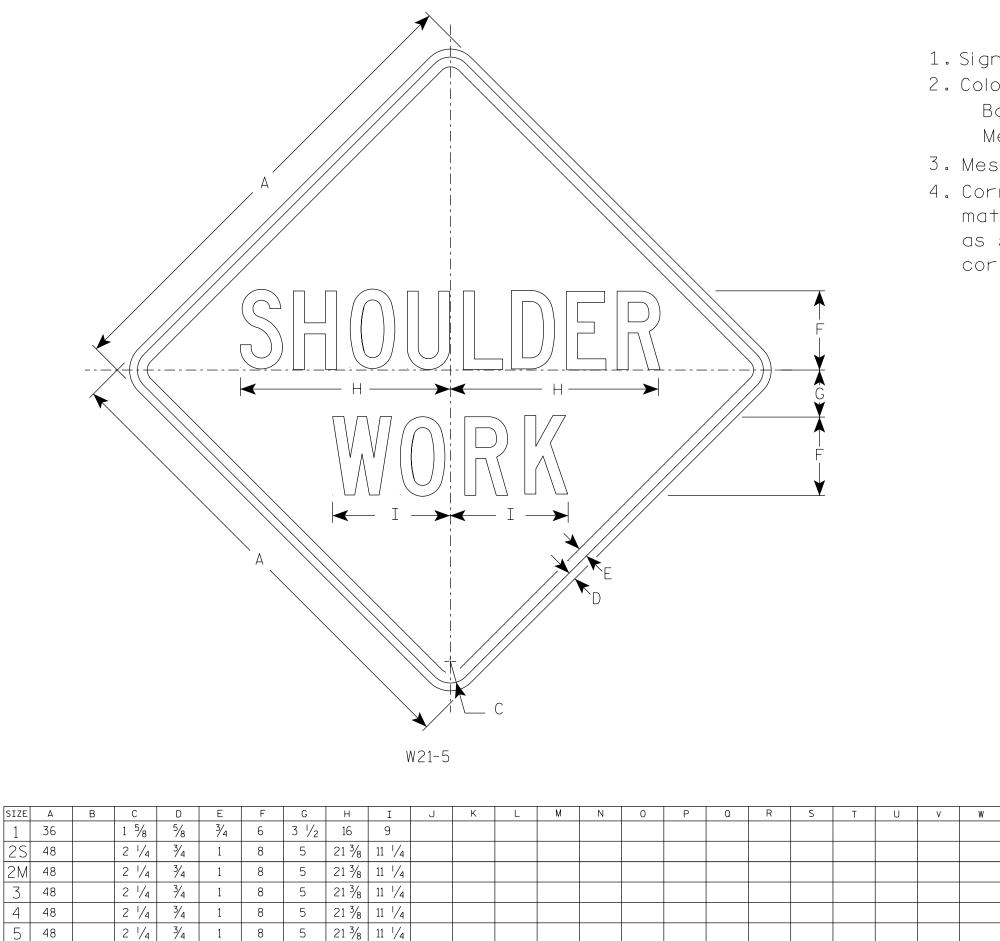
6 7/8 5 3/8

PLOT BY : dotc4c

8 5/8 13 3/4 2 1/8



WISDOT/CADDS SHEET 42



FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\W215.dgn

HWY:

PROJECT NO:

7

PLOT DATE : 30-APRIL 2020

PLOT BY : dotc4c

NOTES

- 1. Sign is Type II Type F Reflective
- 2. Color:
  - Background Orange Message – Black
- 3. Message Series C

Х

Y

Ζ

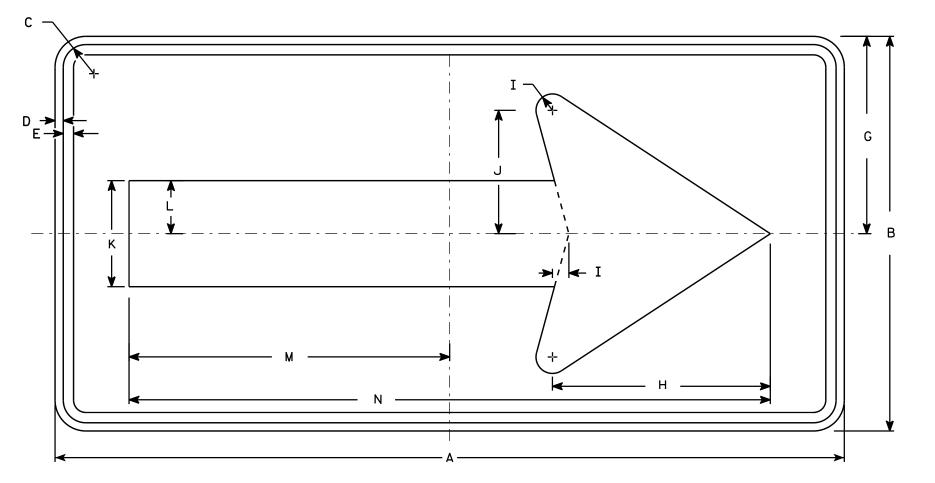
```
4. Corners may be square or rounded when base
  material is plywood but borders shall be rounded
  as shown. When base material is metal, the
  corners and borders shall be rounded.
```

Area sq. ft.	STANDARD SIGN
9.0	
16.0	W21-5
16.0	WISCONSIN DEPT OF TRANSPORTATION
16.0	APPROVED Matther & Rauch
16.0	For State Traffic Engineer
16.0	DATE <u>4/30/2020</u> PLATE NO. <u>W21-5.6</u>
	SHEET NO: <b>E</b>

7

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

COUNTY:





SIZE	Α	В	С	D	E	F	G	н	I	J	К	L	M	N	0	P	0	R	S	Т	U	v	W	X	Y
1																									
2S	48	24	1 3/8	1/2	5%8		12	13 1/4	1	7 1/2	6 <sup>1</sup> /2	3 1/4	19 1/2	39											
2M	48	24	1 3/8	1/2	5%		12	13 1/4	1	7 1/2	6 ½	3 1/4	19 1/2	39											
3	60	30	1 3/8	1/2	5%		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 ¾											
4	60	30	1 3/8	1/2	5⁄8		15	16 1⁄4	1 1/4	9 1⁄4	8	4	24 3/8	48 ¾											
5	60	30	1 3/8	1/2	5%		15	16 1⁄4	1 1⁄4	9 1⁄4	8	4	24 3/8	48 ¾											
PRC	JECT	NO:					ни	VY:					COUN	ΤΥ:											
FILE N	AME : C:	\CAEfile	s\Project	s\tr_std	plate\W01	L6.DGN										PLOT DAT	E : 28-FE	B-2014 11	:37	PLOT	BY : mscj	i9h	F	PLOT NAME	:

- 2. Color:
  - Message Black

7

FILE NAME : C:\CAEfiles\Projects\tr\_stdplate\W016.DGN

## NOTES

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

Background - Orange

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.

Z	Areg sq. ft.	STANDARD SIGN
	8.0	WO1-6
	8.0	WISCONSIN DEPT OF TRANSPORTATION
	12.5	APPROVED Matthew R Rauch
	12.5	For State Traffic Engineer
	12.5	DATE <u>11/18/13</u> PLATE NO. <u>WO1-6.1</u>
		SHEET NO: E

$ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\$	

- 2. Color:
  - Background Orange Message – Black

SIZE	Α	В	С	D	E	F	G	н	I	J	к	L	м	N	0	Р	0	R	S	Т	U	v	W	X	Y	
1	36		1 5/8	5⁄8	3⁄4	12	4	45°	1	1 3⁄4	5	3	1 1/2													
2S	48		2 1⁄4	3⁄4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3⁄4	4	2													
2M	48		2 1/4	3⁄4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3⁄4	4	2													
3	48		2 1/4	3⁄4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3⁄4	4	2													Γ
4	48		2 1/4	3⁄4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3⁄4	4	2													Γ
5	48		2 1/4	3⁄4	1	16	5 3/8	45 <sup>°</sup>	1 1/4	2 3/8	6 3⁄4	4	2													
																										-
PRO	JECT	NO:																								

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W042.DGN

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#### NOTES

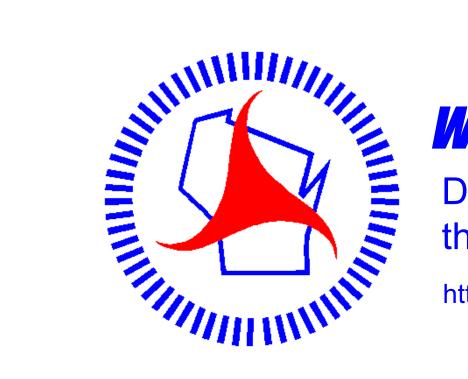
1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

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. W04-2L is the same as W04-2R except the symbolis reversed along the vertical centerline.

Z	Areo sq. ft.	STANDARD SIGN
	9.0	WO4-2
	16.0	W04-2
	16.0	WISCONSIN DEPT OF TRANSPORTATION
	16.0	APPROVED Matthew & Rauch
	16.0	<i>For</i> State Traffic Engineer
	16.0	DATE 11/20/13 PLATE NO. W04-2.1
		SHEET NO: E

# Notes



# Wisconsin Department of Transportation

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