LAX

AUGUST 2021

PROJECT ID: 5120-02-70

WITH: N/A

COUNTY: LA CROSSE

ORDER OF SHEETS

TOTAL SHEETS = 108

05

N

DESIGN DESIGNATION — STH 35 (WEST AVE)

A.A.D.T.	2021	=	19,220
A.A.D.T.	2041	=	23,130
D.H.V.		=	2,310
D.D.		=	54/46
T.		=	2%
DESIGN SPEED		=	30 MPH
ESALS		=	1,370,000

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- 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

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

C LA CROSSE, INTERSECTION IMPRVMNTS

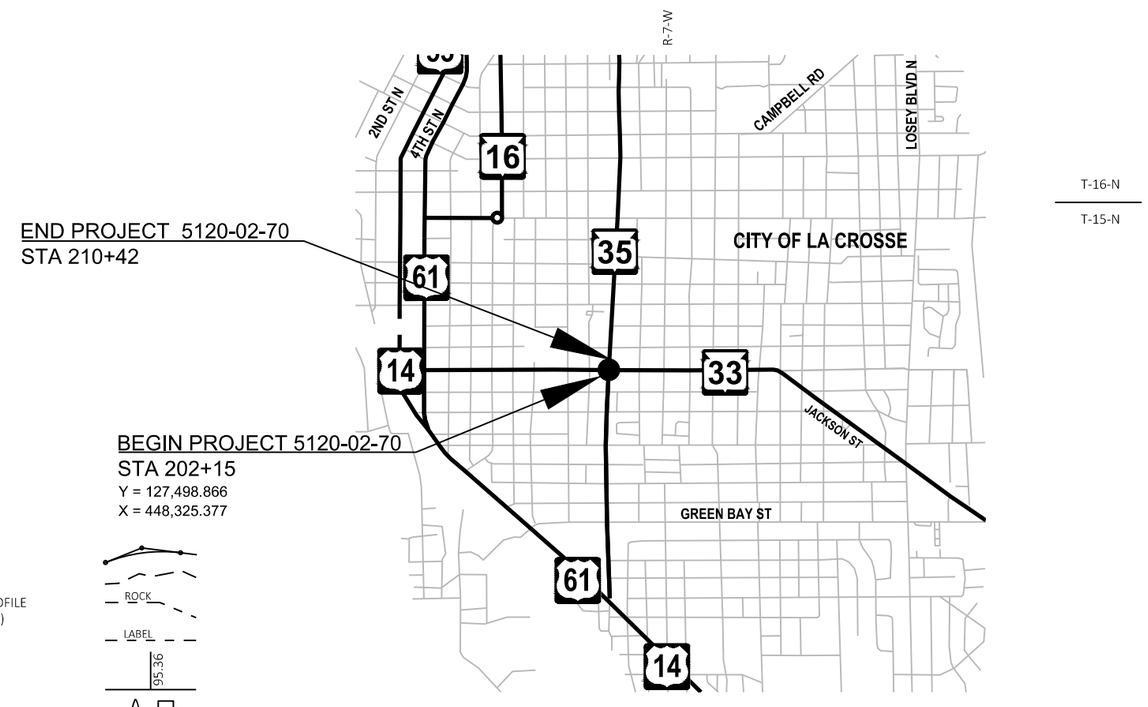
JACKSON ST / STH 35 / WEST AVE INTER

STH 33

LA CROSSE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
5120-02-70	WISC 2021435	1

STATE PROJECT NUMBER
5120-02-70



T-16-N

T-15-N

END PROJECT 5120-02-70
STA 210+42

BEGIN PROJECT 5120-02-70
STA 202+15
Y = 127,498.866
X = 448,325.377

LAYOUT

SCALE 0 0.5 MI

TOTAL NET LENGTH OF CENTERLINE = 0.157 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), LA CROSSE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES.

ELEVATIONS ARE REFERENCED TO NAVD 88 (2007). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 12A.

ACCEPTED FOR

CITY of LA CROSSE

RANDY TURTENWALD (Printed Name) (Signature)

1·11·21 (Date) CITY ENGINEER (Title of Official)

ORIGINAL PLANS PREPARED BY

raSmith
CREATIVITY BEYOND ENGINEERING
rasmith.com

WISCONSIN
JOHN P. BRUGGEMAN
E-39737
BAYSIDE, WI
PROFESSIONAL ENGINEER

1/7/21 (Date) (Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	raSmith
Designer	raSmith
Project Manager	CRAIG FISHER
Regional Examiner	SW REGION
Regional Supervisor	OSCAR WINGER

APPROVED FOR THE DEPARTMENT

DATE: 1/12/2021 (Signature)

E

FILE NAME : T:\1190937.02\CIVIL3D\16410304\SHEETSPLAN\010101-TI.DWG PLOT DATE : 4/6/2021 11:34 AM PLOT BY : AXT, ANDREW PLOT NAME :

DESIGN CONSULTANT

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raSmith
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WISCONSIN DEPT OF TRANSPORTATION

CRAIG FISHER
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CRAIG.FISHER@DOT.WI.GOV

UTILITIES

GAS

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THOMAS.J.LALOND@XCELENERGY.COM

WATER

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800 EAST AVE N
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SANITARY

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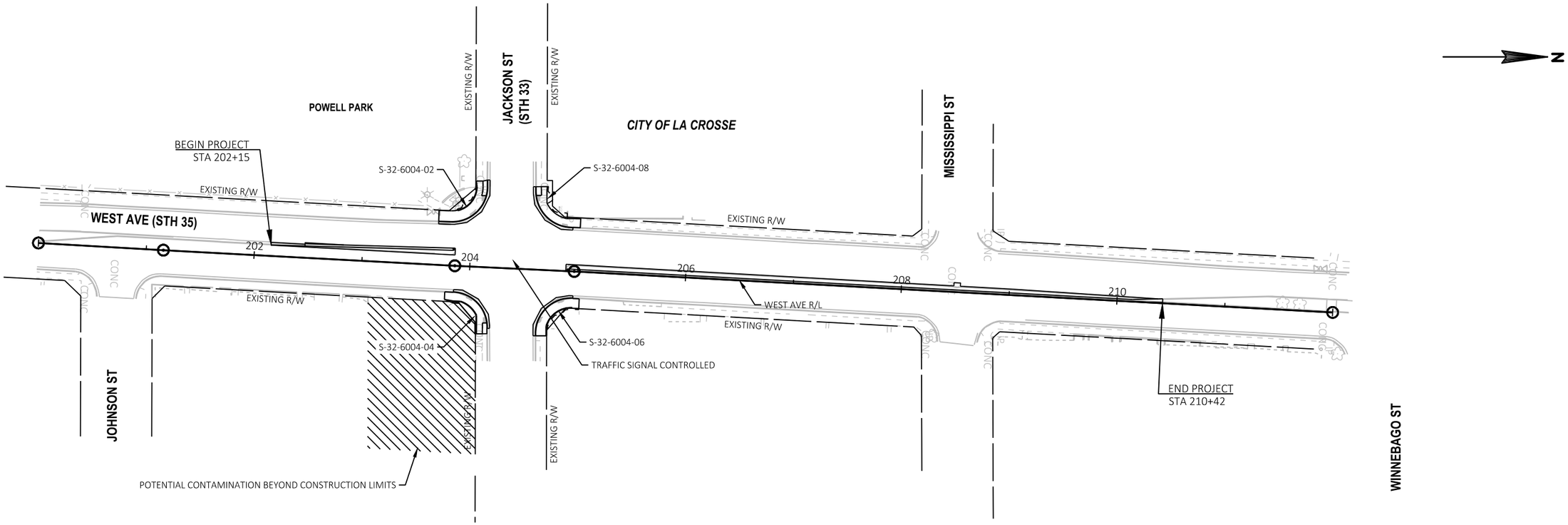
ORDER OF SECTION 2 SHEETS

GENERAL NOTES

1. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATION AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN.
2. ALL OPENINGS BELOW SUBGRADE, RESULTING FROM REMOVALS OR ABANDONMENTS, SHALL BE BACKFILLED IN ACCORDANCE WITH SECTION 204 OF THE STANDARD SPECS. GRANULAR BACKFILL SHALL BE INCIDENTAL TO CONSTRUCTION.
3. NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.
4. CURB AND GUTTER GRADES ARE MEASURED AT THE FLANGE LINE UNLESS OTHERWISE NOTED. CURB AND GUTTER STATIONS, OFFSETS, AND RADII ARE MEASURED AT THE FACE OF CURB UNLESS OTHERWISE NOTED.
5. EROSION CONTROL DEVICES ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTOR'S ECIP AND BY THE ENGINEER. EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE DEVICES IS NO LONGER REQUIRED.
6. THE LIMITS OF SIDEWALK AND CURB & GUTTER REMOVALS ARE APPROXIMATE. FINAL LOCATIONS TO BE DETERMINED BY THE ENGINEER.
7. THE CITY OF LA CROSSE WILL REMOVE AND REINSTALL EXISTING SIGNS DURING CONSTRUCTION.

2

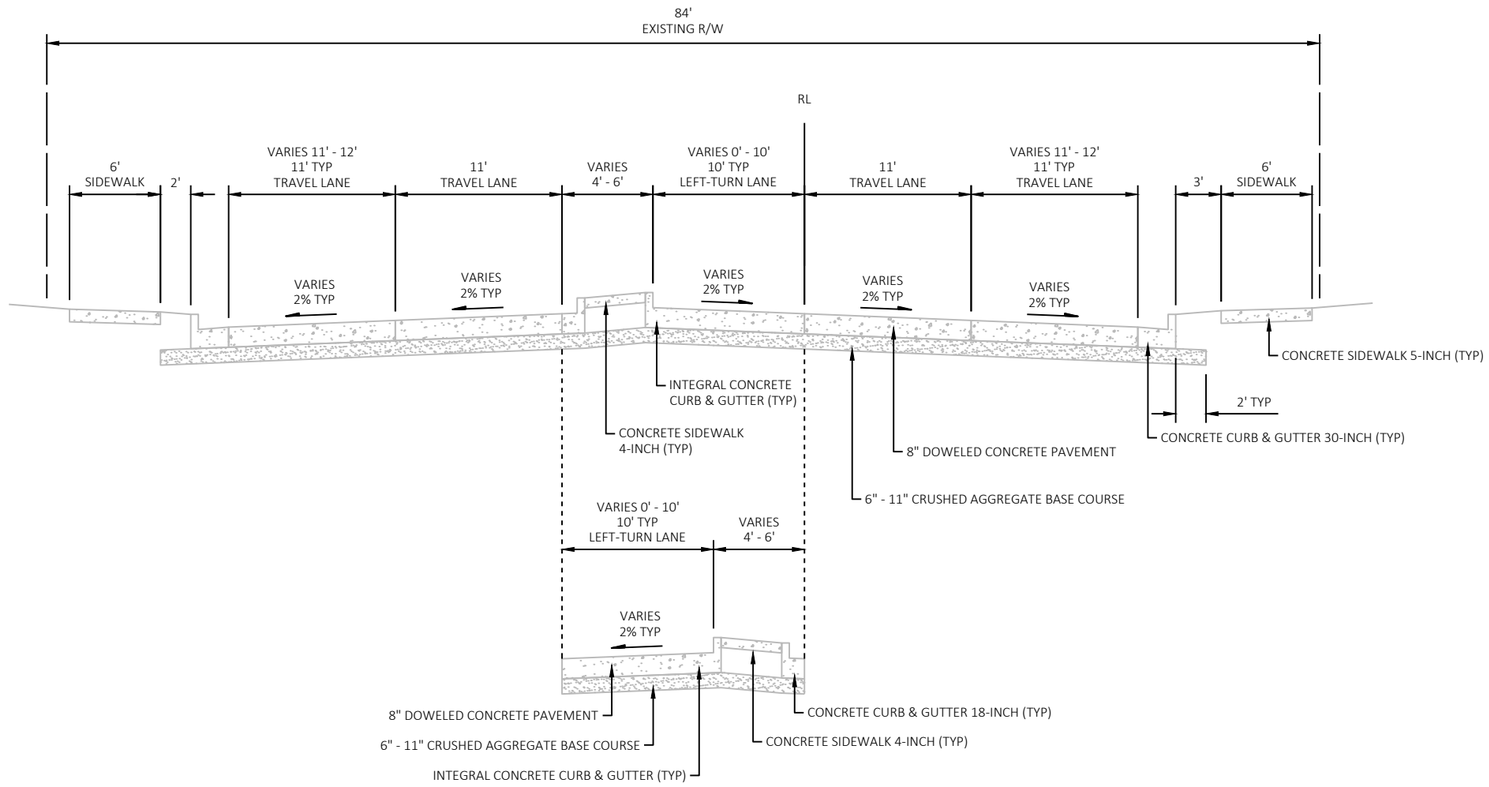


PROJECT NO: 5120-02-70	HWY: STH 33	COUNTY: LA CROSSE	PROJECT OVERVIEW	SHEET 3	E

FILE NAME : T:\1190937.02\CIVIL3D\16410304\SHEETSPLAN\020201-PO.DWG
LAYOUT NAME - 01

PLOT DATE : 5/21/2021 2:00 PM PLOT BY : AXT, ANDREW PLOT NAME : PLOT SCALE : ##########

2



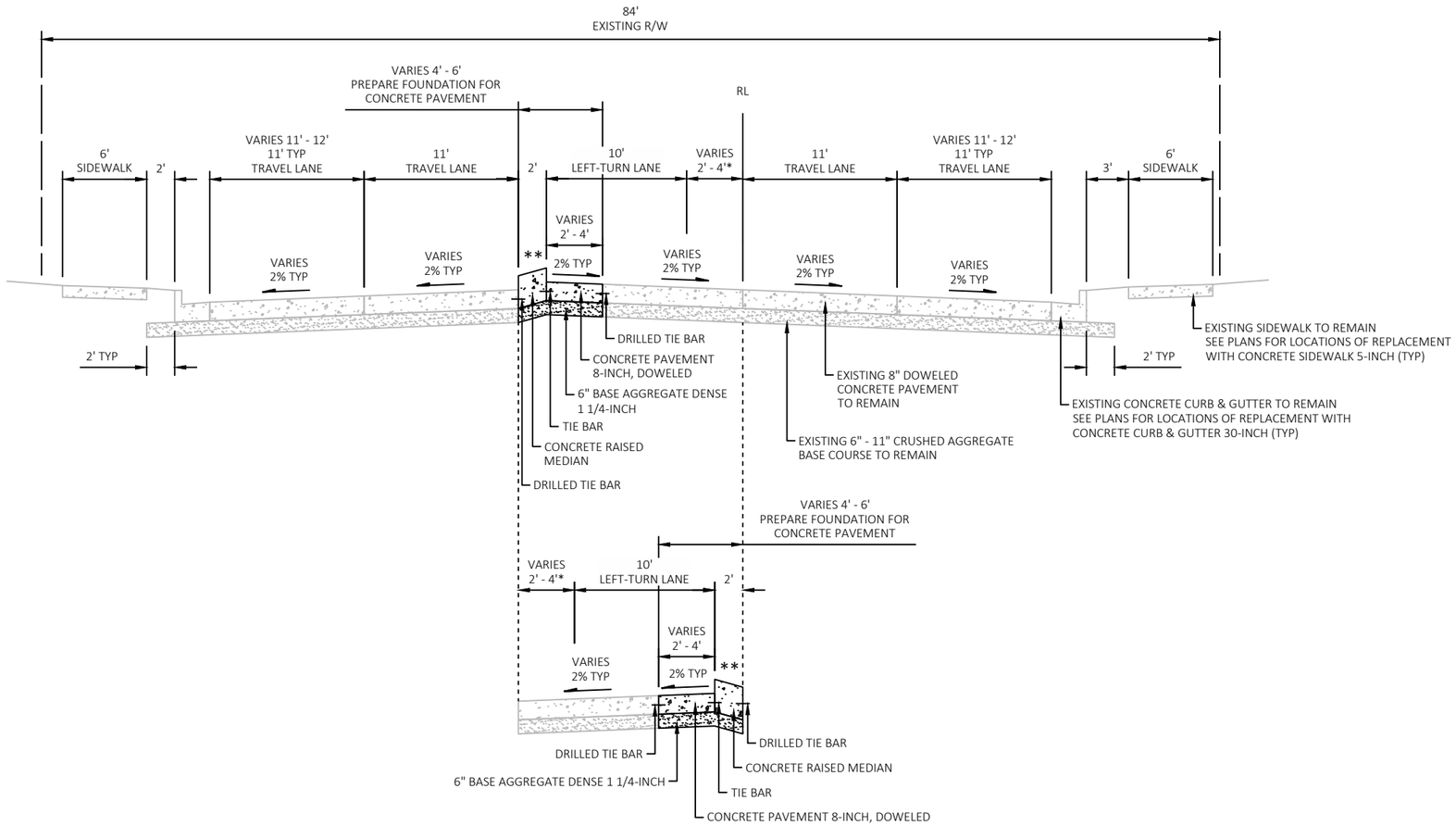
SOUTHBOUND LEFT-TURN LANE

STA 204+89 TO STA 210+42

TYPICAL EXISTING SECTION
WEST AVE (STH 35)

STA 202+15 TO STA 210+42

2



SOUTHBOUND LEFT-TURN LANE

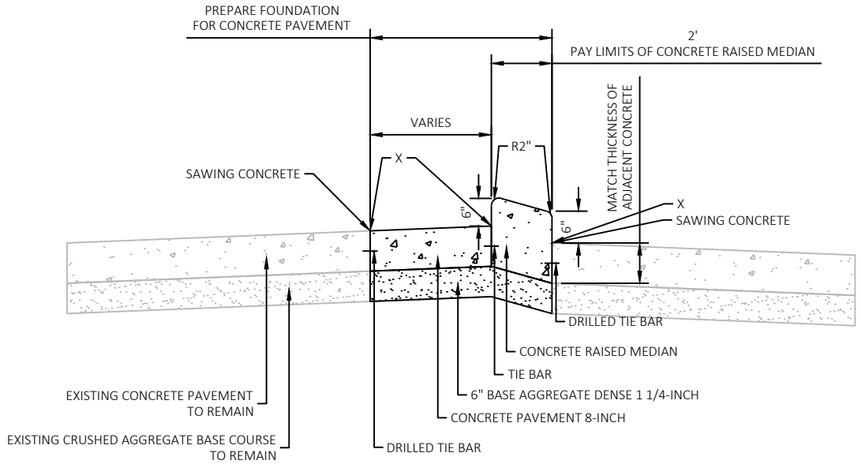
STA 204+89 TO STA 210+42

TYPICAL FINISHED SECTION
WEST AVE (STH 35)

STA 202+15 TO STA 210+42
V = 30 MPH

*SEPARATOR WIDTH TO BE PAVEMENT MARKED.
**SLOPE VARIES 6% TO 20%, 8% TYPICAL.

PROJECT NO: 5120-02-70	HWY: STH 33	COUNTY: LA CROSSE	TYPICAL SECTIONS	SHEET 5	E



CONCRETE RAISED MEDIAN DETAIL

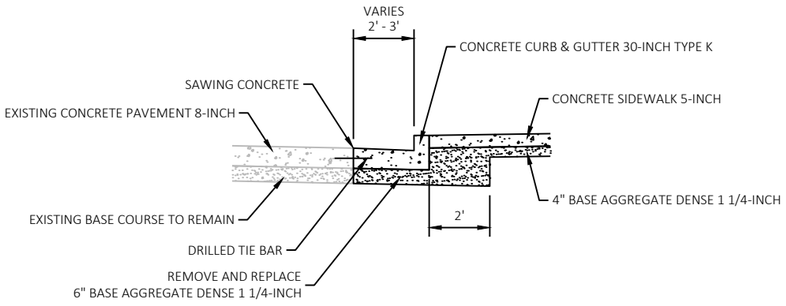
SEE PLANS FOR LOCATIONS

X = LOCATION OF PAVING GRADE SHOWN ON PAVEMENT DETAIL SHEETS

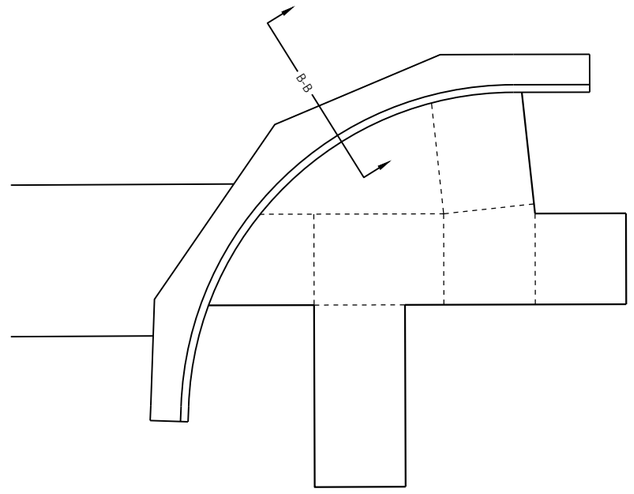
RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .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	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA = 1.70 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.16 ACRES



SECTION B-B



WITHOUT ADJACENT CONCRETE PAVEMENT REPLACEMENT

CURB & GUTTER REPLACEMENT DETAIL

PROJECT NO: 5120-02-70	HWY: STH 33	COUNTY: LA CROSSE	CONSTRUCTION DETAILS	SHEET 6	E

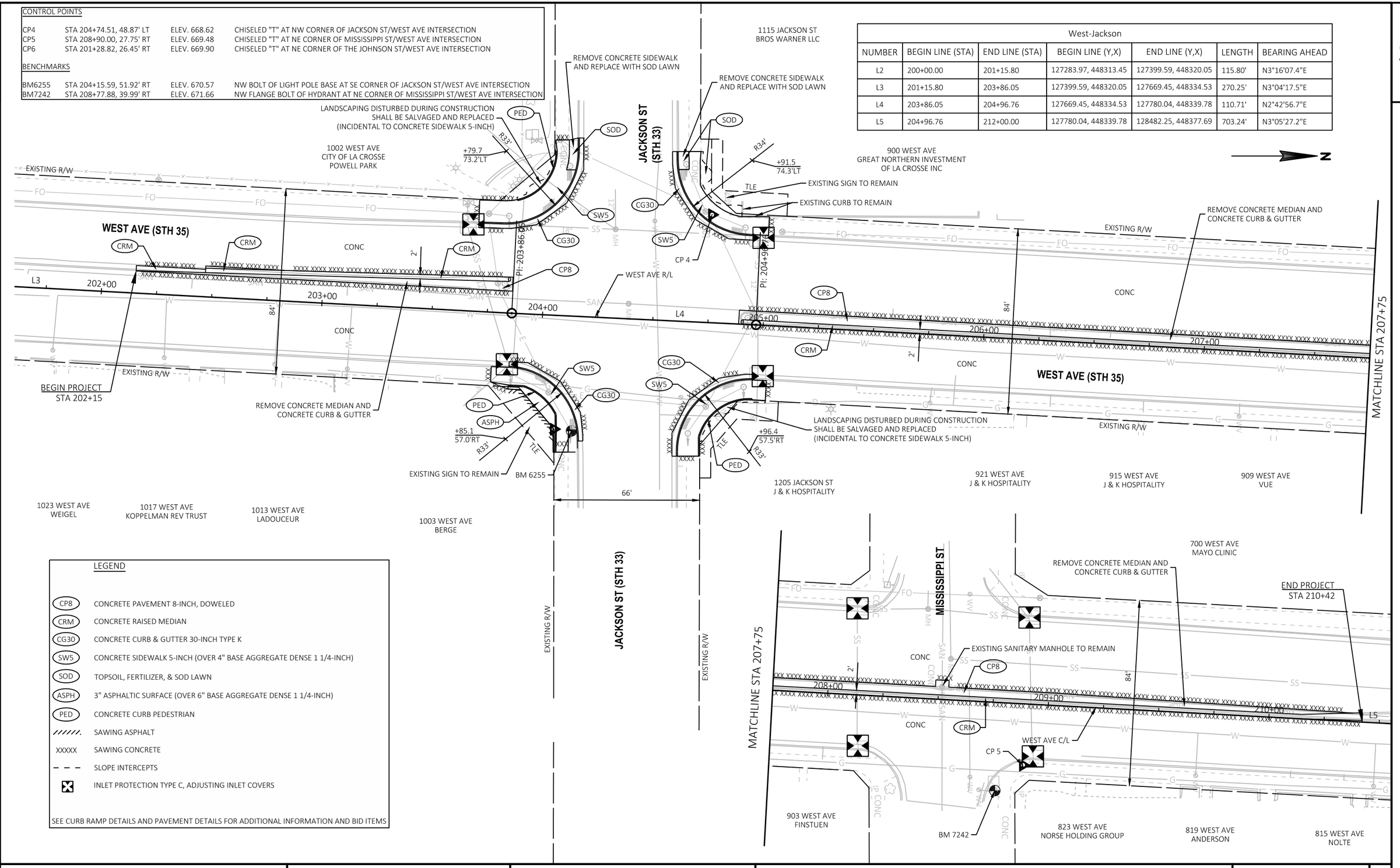
CONTROL POINTS

CP4	STA 204+74.51, 48.87' LT	ELEV. 668.62	CHISELED "T" AT NW CORNER OF JACKSON ST/WEST AVE INTERSECTION
CP5	STA 208+90.00, 27.75' RT	ELEV. 669.48	CHISELED "T" AT NE CORNER OF MISSISSIPPI ST/WEST AVE INTERSECTION
CP6	STA 201+28.82, 26.45' RT	ELEV. 669.90	CHISELED "T" AT NE CORNER OF THE JOHNSON ST/WEST AVE INTERSECTION

BENCHMARKS

BM6255	STA 204+15.59, 51.92' RT	ELEV. 670.57	NW BOLT OF LIGHT POLE BASE AT SE CORNER OF JACKSON ST/WEST AVE INTERSECTION
BM7242	STA 208+77.88, 39.99' RT	ELEV. 671.66	NW FLANGE BOLT OF HYDRANT AT NE CORNER OF MISSISSIPPI ST/WEST AVE INTERSECTION

West-Jackson						
NUMBER	BEGIN LINE (STA)	END LINE (STA)	BEGIN LINE (Y,X)	END LINE (Y,X)	LENGTH	BEARING AHEAD
L2	200+00.00	201+15.80	127283.97, 448313.45	127399.59, 448320.05	115.80'	N3°16'07.4"E
L3	201+15.80	203+86.05	127399.59, 448320.05	127669.45, 448334.53	270.25'	N3°04'17.5"E
L4	203+86.05	204+96.76	127669.45, 448334.53	127780.04, 448339.78	110.71'	N2°42'56.7"E
L5	204+96.76	212+00.00	127780.04, 448339.78	128482.25, 448377.69	703.24'	N3°05'27.2"E



LEGEND

CP8	CONCRETE PAVEMENT 8-INCH, DOWELED
CRM	CONCRETE RAISED MEDIAN
CG30	CONCRETE CURB & GUTTER 30-INCH TYPE K
SW5	CONCRETE SIDEWALK 5-INCH (OVER 4" BASE AGGREGATE DENSE 1 1/4-INCH)
SOD	TOPSOIL, FERTILIZER, & SOD LAWN
ASPH	3" ASPHALTIC SURFACE (OVER 6" BASE AGGREGATE DENSE 1 1/4-INCH)
PED	CONCRETE CURB PEDESTRIAN
//////	SAWING ASPHALT
XXXXX	SAWING CONCRETE
– – –	SLOPE INTERCEPTS
⊠	INLET PROTECTION TYPE C, ADJUSTING INLET COVERS

SEE CURB RAMP DETAILS AND PAVEMENT DETAILS FOR ADDITIONAL INFORMATION AND BID ITEMS

PROJECT NO: 5120-02-70	HWY: STH 33	COUNTY: LA CROSSE	PLAN DETAILS	SHEET 7	E

2

LEGEND

###.## PAVING GRADE

###.##(E) PAVING GRADE (EXISTING)

REVERSE SLOPE GUTTER

N

EXISTING R/W

BEGIN PROJECT
STA 202+15

STA 202+15 TO STA 202+47
EXISTING WEST SIDE MEDIAN
CURB & GUTTER TO REMAIN

ESTABLISH REVERSE SLOPE GUTTER AND
MATCH EXISTING
(INCIDENTAL TO CONCRETE RAISED MEDIAN)

WEST AVE (STH 35)

+15.2 / 12.5' LT

+46.6 / 13.0' LT

+46.6 / 14.0' LT

+82.6 / 13.8' LT

669.48

669.38

669.30

669.58(E)

669.46(E)

669.35(E)

669.25(E)

+46.6 / 11.0' LT

+15.2 / 10.0' LT

ONLY

201+00

202+00

203

WEST AVE R/L

MATCHLINE STA 203+00.00

EXISTING R/W

PROJECT NO: 5120-02-70	HWY: STH 33	COUNTY: LA CROSSE	PAVEMENT DETAILS	SHEET 8	E

FILE NAME : T:\1190937.02\CIVIL3D\16410304\SHEETSPLAN\021202-PD.DWG
LAYOUT NAME - 1

PLOT DATE : 4/21/2021 4:27 PM PLOT BY : AXT, ANDREW PLOT NAME : PLOT SCALE : 1 IN:20 FT

2

LEGEND

###.## PAVING GRADE

###.##(E) PAVING GRADE (EXISTING)

REVERSE SLOPE GUTTER

N

JACKSON ST (STH 33)

EXISTING R/W

TLE

EXISTING R/W

EXISTING R/W

EXISTING R/W

WEST AVE (STH 35)

MATCHLINE STA 203+00.00

MATCHLINE STA 205+50.00

+85.7
16.3' LT

+83.8
15.3' LT

+85.8
10.0' LT

669.02(E)
669.20
669.14(E)

668.92(E)
669.10
669.03(E)

668.82(E)
668.96
668.88(E)

668.78(E)
R1'
668.79(E)

2'

CONCRETE MEDIAN SLOPED NOSE TYPE 2
(INCIDENTAL TO CONCRETE RAISED MEDIAN)

CONCRETE MEDIAN SLOPED NOSE TYPE 2
(INCIDENTAL TO CONCRETE RAISED MEDIAN)

+88.9
6.3' LT

668.56(E)
668.40(E)
R1'

668.63(E)
668.71
668.54(E)

668.80(E)
668.88
668.72(E)

668.81(E)
668.89
668.73(E)

+90.9
1.0' LT

+88.9
0.1' LT

2'

+00

204+00

205+00

WEST AVE R/L

WEST AVE (STH 35)

EXISTING R/W

TLE

EXISTING R/W

TLE

JACKSON ST (STH 33)

PROJECT NO: 5120-02-70	HWY: STH 33	COUNTY: LA CROSSE	PAVEMENT DETAILS	SHEET 9	E

FILE NAME : T:\1190937.02\CIVIL3D\16410304\SHEETSPLAN\021202-PD.DWG
LAYOUT NAME - 2

PLOT DATE : 5/3/2021 10:25 AM PLOT BY : AXT, ANDREW PLOT NAME : PLOT SCALE : 1 IN:20 FT

2

LEGEND

###.##	PAVING GRADE
###.##(E)	PAVING GRADE (EXISTING)
	REVERSE SLOPE GUTTER

N

EXISTING R/W

MATCHLINE STA 205+50.00

668.86(E) 668.93(E) 669.01(E) 669.07(E) 669.12(E) 669.18(E) 669.24(E) 669.32(E) 669.40(E) 669.50(E)

668.94 669.01 669.09 669.15 669.20 669.26 669.32 669.40 669.48 669.58

206+00 207+00 208

2'

WEST AVE R/L

WEST AVE (STH 35)

EXISTING R/W

MATCHLINE STA 208+00.00

PROJECT NO: 5120-02-70	HWY: STH 33	COUNTY: LA CROSSE	PAVEMENT DETAILS	SHEET 10	E

2

LEGEND

###.## PAVING GRADE

###.##(E) PAVING GRADE (EXISTING)

REVERSE SLOPE GUTTER

N

MISSISSIPPI ST

MATCHLINE STA 208+00.00

669.59(E) 669.67

669.66(E) 669.74

669.74(E) 669.82

669.81(E) 669.89

+02.6
5.6' LT

669.91(E) 669.98

670.00(E) 670.06

670.07(E) 670.12

670.14(E) 670.19

+14.7
2.0' LT

670.21(E) 670.23

+37.8
3.9' LT

+42.2
0.7' LT

+00

209+00

210+00

2'

WEST AVE R/L

ESTABLISH REVERSE SLOPE GUTTER AND MATCH EXISTING
(INCIDENTAL TO CONCRETE RAISED MEDIAN)

WEST AVE (STH 35)

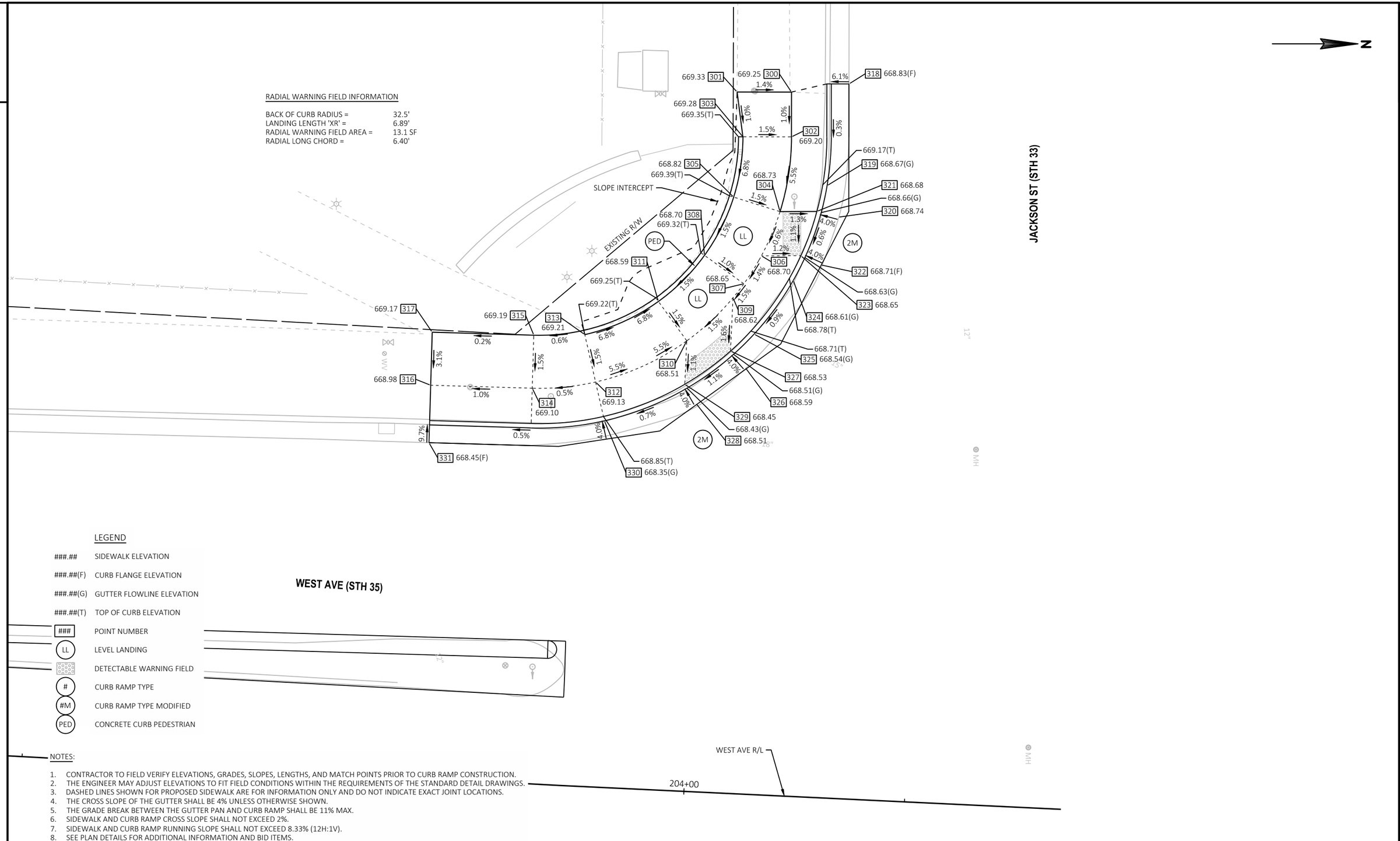
MISSISSIPPI ST

PROJECT NO: 5120-02-70	HWY: STH 33	COUNTY: LA CROSSE	PAVEMENT DETAILS	SHEET 11	E

FILE NAME : T:\1190937.02\CIVIL3D\16410304\SHEETSPLAN\021202-PD.DWG
LAYOUT NAME - 4

PLOT DATE : 4/21/2021 4:27 PM PLOT BY : AXT, ANDREW PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 42



NOTES:

1. CONTRACTOR TO FIELD VERIFY ELEVATIONS, GRADES, SLOPES, LENGTHS, AND MATCH POINTS PRIOR TO CURB RAMP CONSTRUCTION.
2. THE ENGINEER MAY ADJUST ELEVATIONS TO FIT FIELD CONDITIONS WITHIN THE REQUIREMENTS OF THE STANDARD DETAIL DRAWINGS.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE EXACT JOINT LOCATIONS.
4. THE CROSS SLOPE OF THE GUTTER SHALL BE 4% UNLESS OTHERWISE SHOWN.
5. THE GRADE BREAK BETWEEN THE GUTTER PAN AND CURB RAMP SHALL BE 11% MAX.
6. SIDEWALK AND CURB RAMP CROSS SLOPE SHALL NOT EXCEED 2%.
7. SIDEWALK AND CURB RAMP RUNNING SLOPE SHALL NOT EXCEED 8.33% (12H:1V).
8. SEE PLAN DETAILS FOR ADDITIONAL INFORMATION AND BID ITEMS.

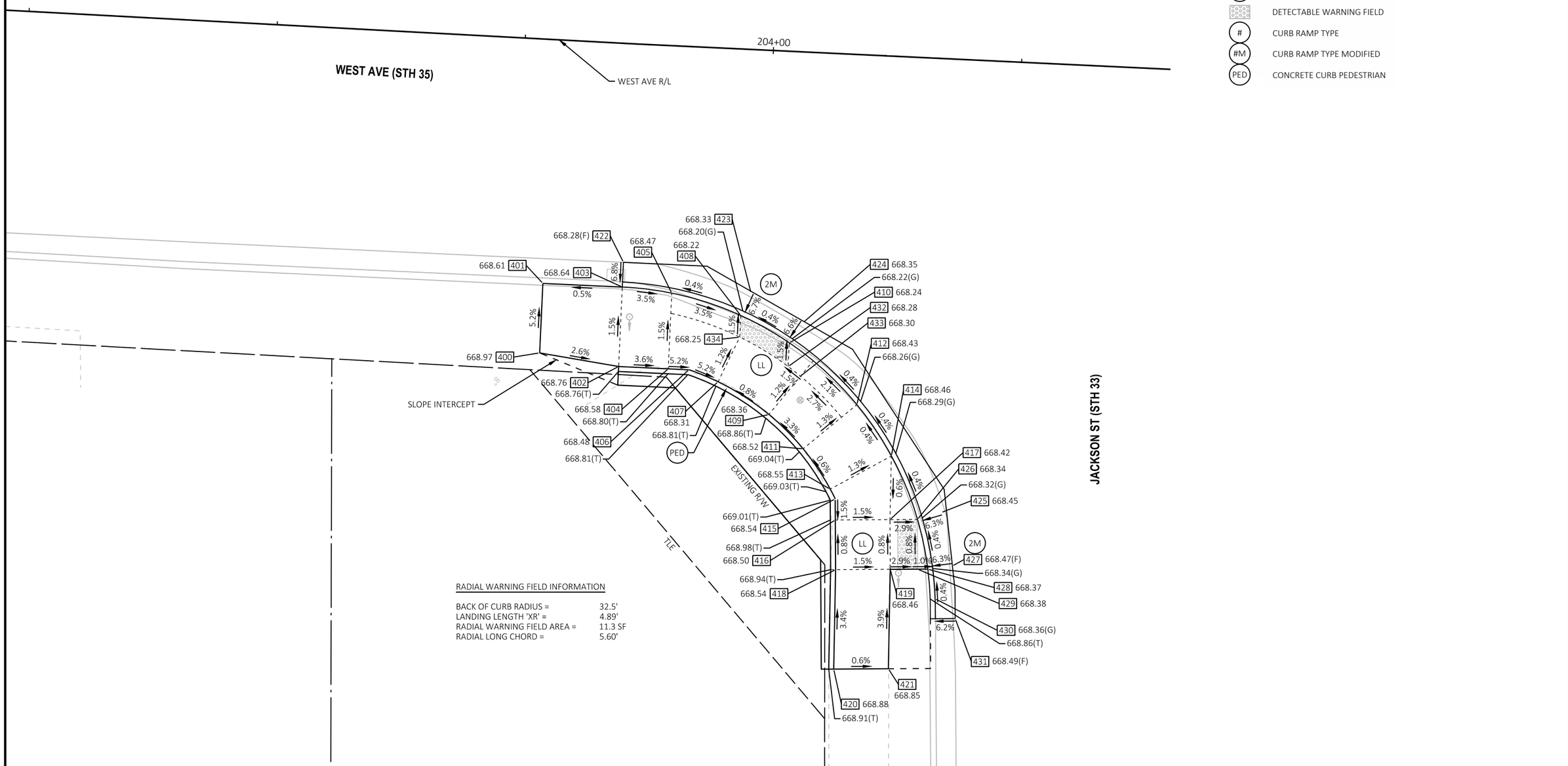
PROJECT NO: 5120-02-70	HWY: STH 33	COUNTY: LA CROSSE	CURB RAMP DETAILS	SHEET 12	E

NOTES:

1. CONTRACTOR TO FIELD VERIFY ELEVATIONS, GRADES, SLOPES, LENGTHS, AND MATCH POINTS PRIOR TO CURB RAMP CONSTRUCTION.
2. THE ENGINEER MAY ADJUST ELEVATIONS TO FIT FIELD CONDITIONS WITHIN THE REQUIREMENTS OF THE STANDARD DETAIL DRAWINGS.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE EXACT JOINT LOCATIONS.
4. THE CROSS SLOPE OF THE GUTTER SHALL BE 4% UNLESS OTHERWISE SHOWN.
5. THE GRADE BREAK BETWEEN THE GUTTER PAN AND CURB RAMP SHALL BE 11% MAX.
6. SIDEWALK AND CURB RAMP CROSS SLOPE SHALL NOT EXCEED 2%.
7. SIDEWALK AND CURB RAMP RUNNING SLOPE SHALL NOT EXCEED 8.33% (12H:1V).
8. SEE PLAN DETAILS FOR ADDITIONAL INFORMATION AND BID ITEMS.

LEGEND

###.##	SIDEWALK ELEVATION
###.##(F)	CURB FLANGE ELEVATION
###.##(G)	GUTTER FLOWLINE ELEVATION
###.##(T)	TOP OF CURB ELEVATION
###	POINT NUMBER
LL	LEVEL LANDING
	DETECTABLE WARNING FIELD
#	CURB RAMP TYPE
#M	CURB RAMP TYPE MODIFIED
PED	CONCRETE CURB PEDESTRIAN



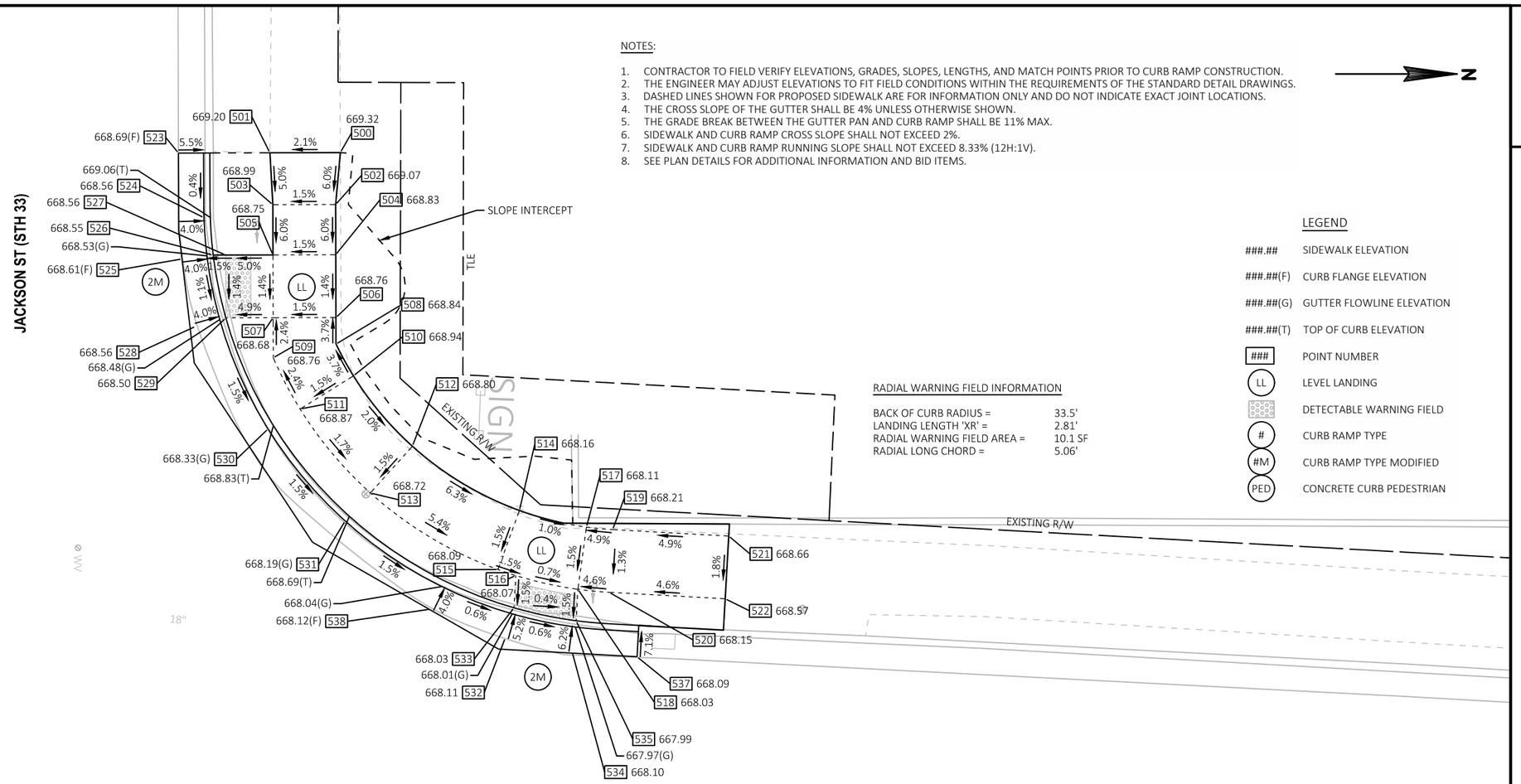
PROJECT NO: 5120-02-70	HWY: STH 33	COUNTY: LA CROSSE	CURB RAMP DETAILS	SHEET 13	E

FILE NAME : T:\1190937.02\CIVIL3D\16410304\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - Jackson-SE

PLOT DATE : 4/21/2021 4:28 PM PLOT BY : AXT, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT

NOTES:

1. CONTRACTOR TO FIELD VERIFY ELEVATIONS, GRADES, SLOPES, LENGTHS, AND MATCH POINTS PRIOR TO CURB RAMP CONSTRUCTION.
2. THE ENGINEER MAY ADJUST ELEVATIONS TO FIT FIELD CONDITIONS WITHIN THE REQUIREMENTS OF THE STANDARD DETAIL DRAWINGS.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE EXACT JOINT LOCATIONS.
4. THE CROSS SLOPE OF THE GUTTER SHALL BE 4% UNLESS OTHERWISE SHOWN.
5. THE GRADE BREAK BETWEEN THE GUTTER PAN AND CURB RAMP SHALL BE 11% MAX.
6. SIDEWALK AND CURB RAMP CROSS SLOPE SHALL NOT EXCEED 2%.
7. SIDEWALK AND CURB RAMP RUNNING SLOPE SHALL NOT EXCEED 8.33% (12H:1V).
8. SEE PLAN DETAILS FOR ADDITIONAL INFORMATION AND BID ITEMS.



RADIAL WARNING FIELD INFORMATION

BACK OF CURB RADIUS =	33.5'
LANDING LENGTH 'XR' =	2.81'
RADIAL WARNING FIELD AREA =	10.1 SF
RADIAL LONG CHORD =	5.06'

LEGEND

###.##	SIDEWALK ELEVATION
###.##(F)	CURB FLANGE ELEVATION
###.##(G)	GUTTER FLOWLINE ELEVATION
###.##(T)	TOP OF CURB ELEVATION
###	POINT NUMBER
LL	LEVEL LANDING
	DETECTABLE WARNING FIELD
#	CURB RAMP TYPE
#M	CURB RAMP TYPE MODIFIED
PED	CONCRETE CURB PEDESTRIAN

PROJECT NO: 5120-02-70	HWY: STH 33	COUNTY: LA CROSSE	CURB RAMP DETAILS	SHEET 14	E

FILE NAME : T:\1190937.02\CIVIL3D\16410304\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - Jackson-NW
PLOT DATE : 4/21/2021 4:28 PM PLOT BY : AXT, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT

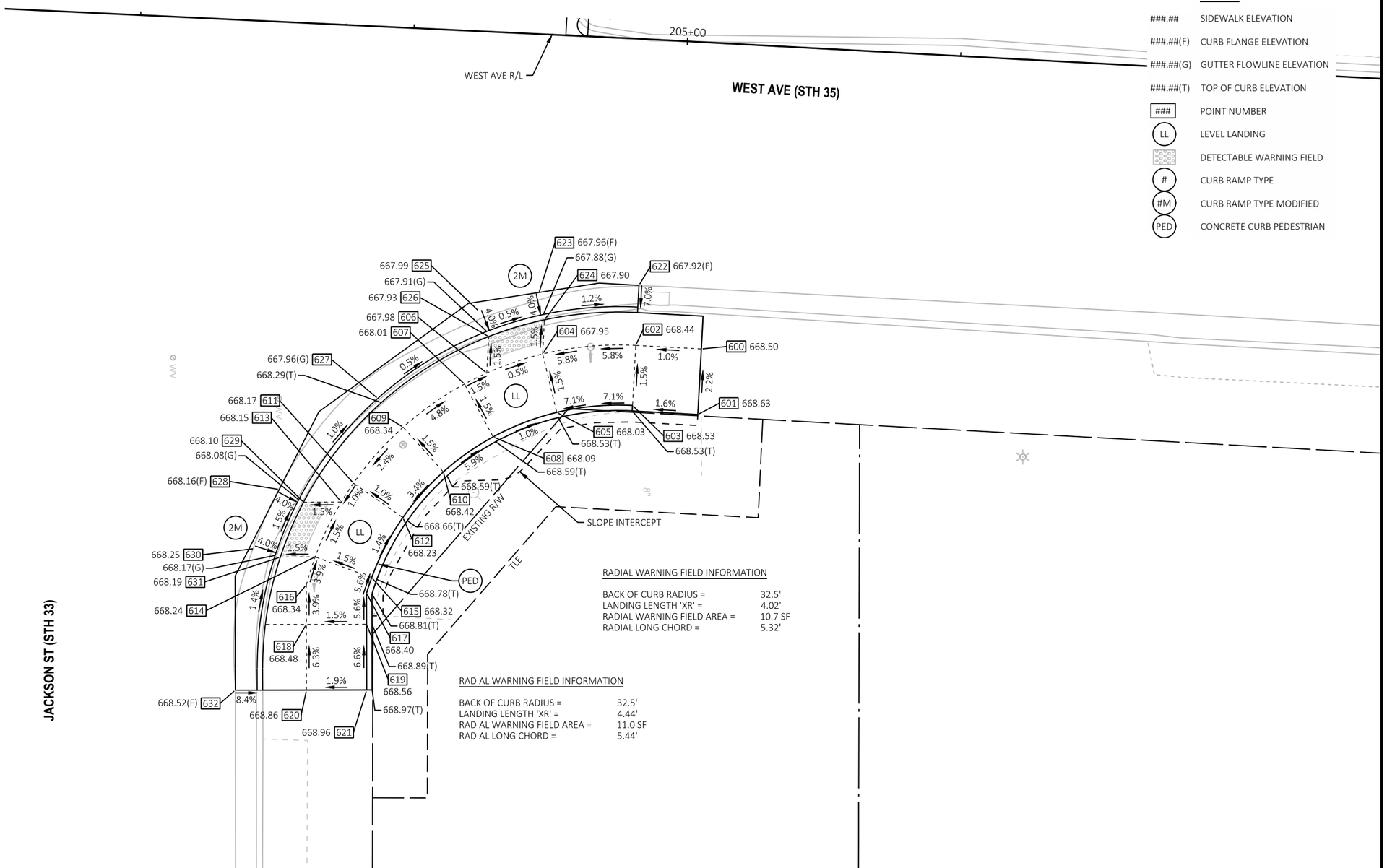
NOTES:

1. CONTRACTOR TO FIELD VERIFY ELEVATIONS, GRADES, SLOPES, LENGTHS, AND MATCH POINTS PRIOR TO CURB RAMP CONSTRUCTION.
2. THE ENGINEER MAY ADJUST ELEVATIONS TO FIT FIELD CONDITIONS WITHIN THE REQUIREMENTS OF THE STANDARD DETAIL DRAWINGS.
3. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE EXACT JOINT LOCATIONS.
4. THE CROSS SLOPE OF THE GUTTER SHALL BE 4% UNLESS OTHERWISE SHOWN.
5. THE GRADE BREAK BETWEEN THE GUTTER PAN AND CURB RAMP SHALL BE 11% MAX.
6. SIDEWALK AND CURB RAMP CROSS SLOPE SHALL NOT EXCEED 2%.
7. SIDEWALK AND CURB RAMP RUNNING SLOPE SHALL NOT EXCEED 8.33% (12H:1V).
8. SEE PLAN DETAILS FOR ADDITIONAL INFORMATION AND BID ITEMS.

N

LEGEND

###.##	SIDEWALK ELEVATION
###.##(F)	CURB FLANGE ELEVATION
###.##(G)	GUTTER FLOWLINE ELEVATION
###.##(T)	TOP OF CURB ELEVATION
###	POINT NUMBER
LL	LEVEL LANDING
	DETECTABLE WARNING FIELD
#	CURB RAMP TYPE
#M	CURB RAMP TYPE MODIFIED
PED	CONCRETE CURB PEDESTRIAN



PROJECT NO: 5120-02-70	HWY: STH 33	COUNTY: LA CROSSE	CURB RAMP DETAILS	SHEET 15	E

FILE NAME : T:\1190937.02\CIVIL3D\16410304\SHEETSPLAN\021301-CR.DWG
LAYOUT NAME - Jackson-NE

PLOT DATE : 4/21/2021 4:28 PM PLOT BY : AXT, ANDREW PLOT NAME : PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

2

JACKSON ST SW - POINT TABLE

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
300	204+08.42	79.60' LT	669.25	127695.57	448256.08
301	204+02.27	79.32' LT	669.33	127689.41	448256.06
302	204+08.65	74.55' LT	669.20	127695.56	448261.14
303	204+03.16	74.29' LT	669.28	127690.06	448261.13
304	204+07.76	66.04' LT	668.73	127694.26	448269.59
305	204+02.44	67.43' LT	668.82	127689.01	448267.95
306	204+05.89	60.94' LT	668.70	127692.15	448274.60
307	204+04.06	57.69' LT	668.65	127690.17	448277.76
308	203+99.45	60.69' LT	668.70	127685.71	448274.54
309	204+02.91	56.05' LT	668.62	127688.94	448279.34
310	203+97.91	50.93' LT	668.51	127683.71	448284.22
311	203+94.49	55.24' LT	668.59	127680.50	448279.75
312	203+87.83	45.79' LT	669.13	127673.39	448288.88
313	203+86.35	51.09' LT	669.21	127672.17	448283.51
314	203+80.42	44.72' LT	669.10	127666.22	448289.58
315	203+80.27	50.72' LT	669.19	127666.40	448283.58
316	203+68.92	44.44' LT	668.98	127654.72	448289.24
317	203+68.78	50.44' LT	669.17	127654.90	448283.24
318	204+14.87	80.84' LT	668.83	127702.07	448255.15
319	204+12.94	69.22' LT	668.67	127699.58	448266.66
320	204+14.36	65.71' LT	668.74	127700.84	448270.23
321	204+11.92	66.25' LT	668.68	127698.43	448269.58
322	204+12.67	60.24' LT	668.71	127698.90	448275.62
323	204+10.35	61.16' LT	668.65	127696.62	448274.59
324	204+09.62	58.34' LT	668.61	127695.76	448277.37
325	204+05.48	52.06' LT	668.54	127691.32	448283.45
326	204+04.66	48.23' LT	668.59	127690.32	448287.23
327	204+02.91	50.02' LT	668.53	127688.66	448285.37
328	203+99.28	43.92' LT	668.51	127684.75	448291.29
329	203+97.92	46.01' LT	668.45	127683.48	448289.13
330	203+89.03	41.46' LT	668.35	127674.39	448293.26
331	203+69.08	37.94' LT	668.45	127654.53	448295.74

JACKSON ST SE - POINT TABLE

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
400	203+78.14	31.56' RT	668.97	127659.86	448365.62
401	203+78.09	24.56' RT	668.61	127660.18	448358.62
402	203+86.05	32.50' RT	668.76	127667.80	448366.99
403	203+86.05	24.50' RT	668.64	127668.17	448359.00
404	203+90.94	32.50' RT	668.58	127672.79	448367.22
405	203+90.94	24.88' RT	668.47	127673.15	448359.62
406	203+93.01	32.49' RT	668.48	127674.86	448367.32
407	203+96.01	33.56' RT	668.31	127677.81	448368.53
408	203+97.98	26.80' RT	668.22	127680.09	448361.87
409	204+01.27	36.60' RT	668.36	127682.91	448371.81
410	204+02.98	29.31' RT	668.24	127684.97	448364.61
411	204+04.88	39.89' RT	668.52	127686.36	448375.27
412	204+10.07	35.20' RT	668.43	127691.77	448370.83
413	204+07.79	43.81' RT	668.55	127689.09	448379.33
414	204+13.78	40.19' RT	668.46	127695.24	448375.99
415	204+08.34	44.77' RT	668.54	127689.59	448380.31
416	204+08.46	46.89' RT	668.50	127689.61	448382.43
417	204+13.95	46.59' RT	668.42	127695.11	448382.39
418	204+08.72	51.88' RT	668.54	127689.64	448387.43
419	204+14.22	51.59' RT	668.46	127695.14	448387.39
420	204+09.01	61.88' RT	668.88	127689.45	448397.43
421	204+14.50	61.58' RT	668.85	127694.95	448397.39
422	203+86.05	22.00' RT	668.28	127668.29	448356.50
423	203+98.90	24.48' RT	668.33	127681.13	448359.59
424	204+04.29	27.18' RT	668.35	127686.38	448362.55
425	204+19.07	45.63' RT	668.45	127700.26	448381.68
426	204+16.70	46.45' RT	668.34	127697.86	448382.38
427	204+20.44	50.95' RT	668.47	127701.38	448387.05
428	204+17.97	51.38' RT	668.37	127698.90	448387.37
429	204+16.97	51.44' RT	668.38	127697.89	448387.38
430	204+18.86	54.33' RT	668.36	127699.64	448390.35
431	204+20.97	56.23' RT	668.49	127701.67	448392.35
432	204+02.98	31.69' RT	668.28	127684.86	448366.99
433	204+04.27	32.60' RT	668.30	127686.10	448367.96
434	203+97.98	28.97' RT	668.25	127679.99	448364.03

JACKSON ST NW - POINT TABLE

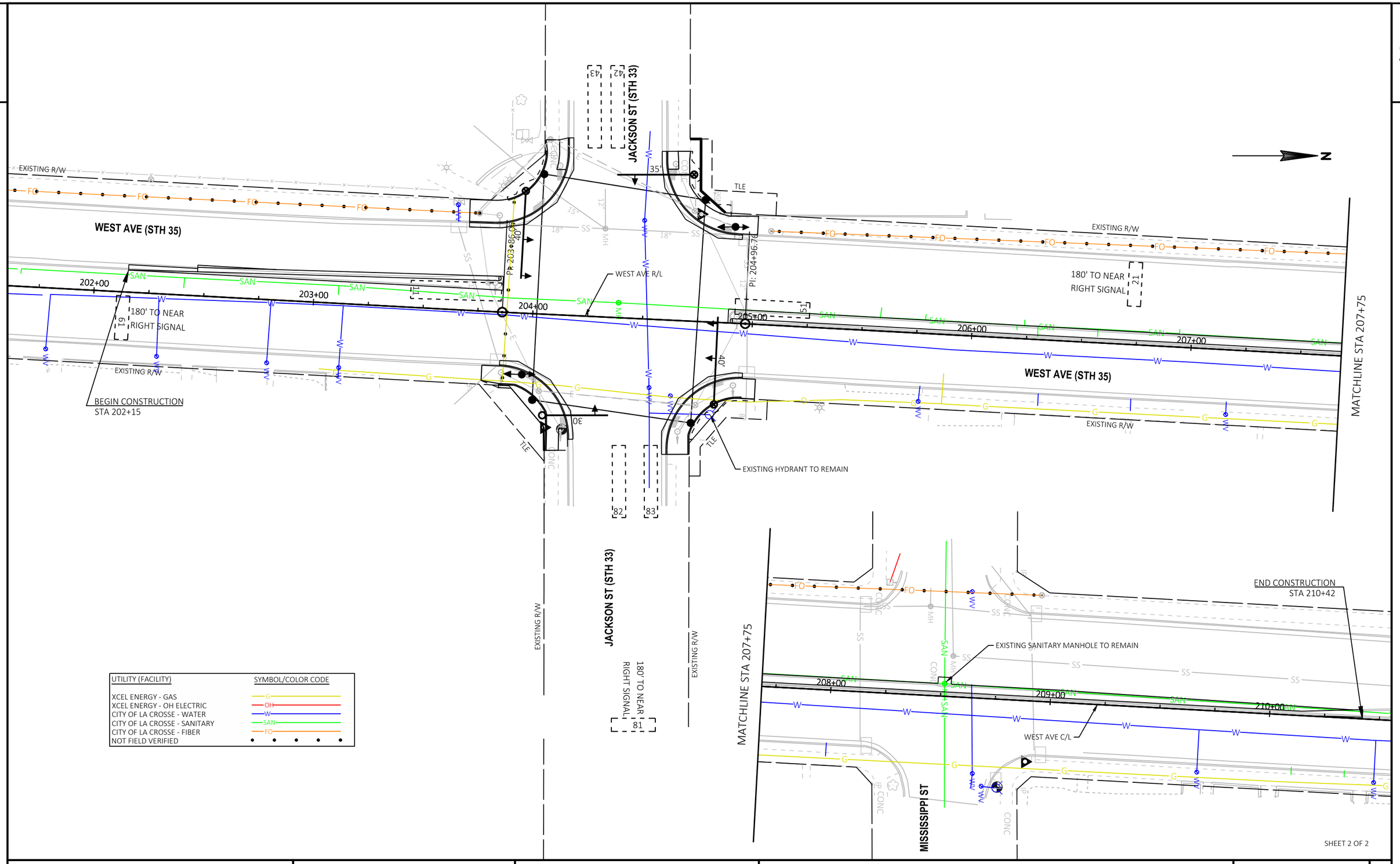
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
500	204+68.19	77.23' LT	669.32	127755.15	448261.28
501	204+62.59	76.94' LT	669.20	127749.55	448261.30
502	204+68.01	73.08' LT	669.07	127754.78	448265.42
503	204+63.02	72.83' LT	668.99	127749.78	448265.43
504	204+68.21	69.08' LT	668.83	127754.79	448269.42
505	204+63.22	68.83' LT	668.75	127749.79	448269.43
506	204+68.46	64.09' LT	668.76	127754.80	448274.42
507	204+63.47	63.84' LT	668.68	127749.80	448274.43
508	204+68.57	61.98' LT	668.84	127754.81	448276.53
509	204+63.63	60.66' LT	668.76	127749.81	448277.62
510	204+70.07	59.52' LT	668.94	127756.19	448279.06
511	204+65.95	56.68' LT	668.87	127751.95	448281.70
512	204+75.02	54.14' LT	668.80	127760.89	448284.67
513	204+71.86	50.27' LT	668.72	127757.54	448288.38
514	204+83.78	49.44' LT	668.16	127769.41	448289.78
515	204+82.30	44.66' LT	668.09	127767.70	448294.48
516	204+83.74	44.25' LT	668.07	127769.12	448294.96
517	204+89.17	48.37' LT	668.11	127774.75	448291.10
518	204+88.73	43.39' LT	668.03	127774.07	448296.05
519	204+91.27	48.27' LT	668.21	127776.83	448291.30
520	204+91.23	43.27' LT	668.15	127776.56	448296.29
521	205+00.20	48.22' LT	668.66	127786.07	448291.81
522	205+00.20	43.22' LT	668.57	127785.79	448296.80
523	204+55.32	76.58' LT	668.69	127742.26	448261.32
524	204+57.59	71.54' LT	668.56	127744.30	448266.46
525	204+56.00	68.17' LT	668.61	127742.55	448269.75
526	204+58.46	68.59' LT	668.55	127745.03	448269.44
527	204+59.46	68.64' LT	668.56	127746.02	448269.44
528	204+57.34	62.86' LT	668.56	127743.63	448275.12
529	204+59.71	63.65' LT	668.50	127746.04	448274.44
530	204+63.48	54.98' LT	668.33	127749.40	448283.28
531	204+69.96	47.95' LT	668.19	127755.53	448290.61
532	204+83.14	39.25' LT	668.11	127768.28	448299.92
533	204+83.72	41.68' LT	668.03	127768.98	448297.52
534	204+88.50	38.39' LT	668.10	127773.60	448301.03
535	204+88.71	40.88' LT	667.99	127773.93	448298.56
537	204+93.69	38.25' LT	668.09	127778.78	448301.42
538	204+77.10	41.27' LT	668.12	127762.35	448297.62

JACKSON ST NE - POINT TABLE

POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING
600	205+02.79	28.00' RT	668.50	127784.54	448368.06
601	205+02.79	34.00' RT	668.63	127784.22	448374.05
602	204+96.60	28.00' RT	668.44	127778.55	448367.74
603	204+96.57	33.50' RT	668.53	127778.26	448373.23
604	204+88.14	29.18' RT	667.95	127770.04	448368.52
605	204+89.68	34.46' RT	668.03	127771.33	448373.86
606	204+83.13	31.16' RT	667.98	127764.94	448370.26
607	204+81.14	32.26' RT	668.01	127762.90	448371.26
608	204+83.99	36.97' RT	668.09	127765.52	448376.10
609	204+75.74	36.46' RT	668.34	127757.30	448375.20
610	204+79.59	40.39' RT	668.42	127760.97	448379.30
611	204+71.44	41.80' RT	668.17	127752.76	448380.33
612	204+76.10	44.73' RT	668.23	127757.27	448383.47
613	204+70.41	43.57' RT	668.15	127751.65	448382.05
614	204+68.26	48.69' RT	668.24	127749.26	448387.06
615	204+73.51	50.33' RT	668.32	127754.42	448388.95
616	204+67.58	51.28' RT	668.34	127748.46	448389.61
617	204+73.11	51.77' RT	668.40	127753.96	448390.37
618	204+67.76	54.89' RT	668.48	127748.46	448393.23
619	204+73.25	54.62' RT	668.56	127753.96	448393.22
620	204+68.05	60.88' RT	668.86	127748.47	448399.23
621	204+73.54	60.62' RT	668.96	127753.97	448399.22
622	204+96.64	22.50' RT	667.92	127778.85	448362.24
623	204+87.53	23.65' RT	667.96	127769.70	448362.96
624	204+88.17	26.06' RT	667.90	127770.21	448365.40
625	204+82.13	25.55' RT	667.99	127764.21	448364.60
626	204+83.15	27.83' RT	667.93	127765.12	448366.93
627	204+73.29	33.96' RT	667.96	127754.98	448372.59
628	204+64.70	42.70' RT	668.16	127745.99	448380.91
629	204+66.97	43.75' RT	668.10	127748.20	448382.07
630	204+62.68	48.20' RT	668.25	127743.70	448386.30
631	204+65.09	48.86' RT	668.19	127746.08	448387.08
632	204+61.56	61.20' RT	668.52	127741.97	448399.24

2

2



SHEET 2 OF 2

PROJECT NO: 5120-02-70	HWY: STH 33	COUNTY: LA CROSSE	UTILITY DETAILS	SHEET 17	E

FILE NAME : T:\1190937.02\CIVIL3D\16410304\SHEETSPLAN\023001-UP.DWG
LAYOUT NAME - Jackson

PLOT DATE : 4/21/2021 4:28 PM PLOT BY : AXT, ANDREW PLOT NAME : PLOT SCALE : ##########

2

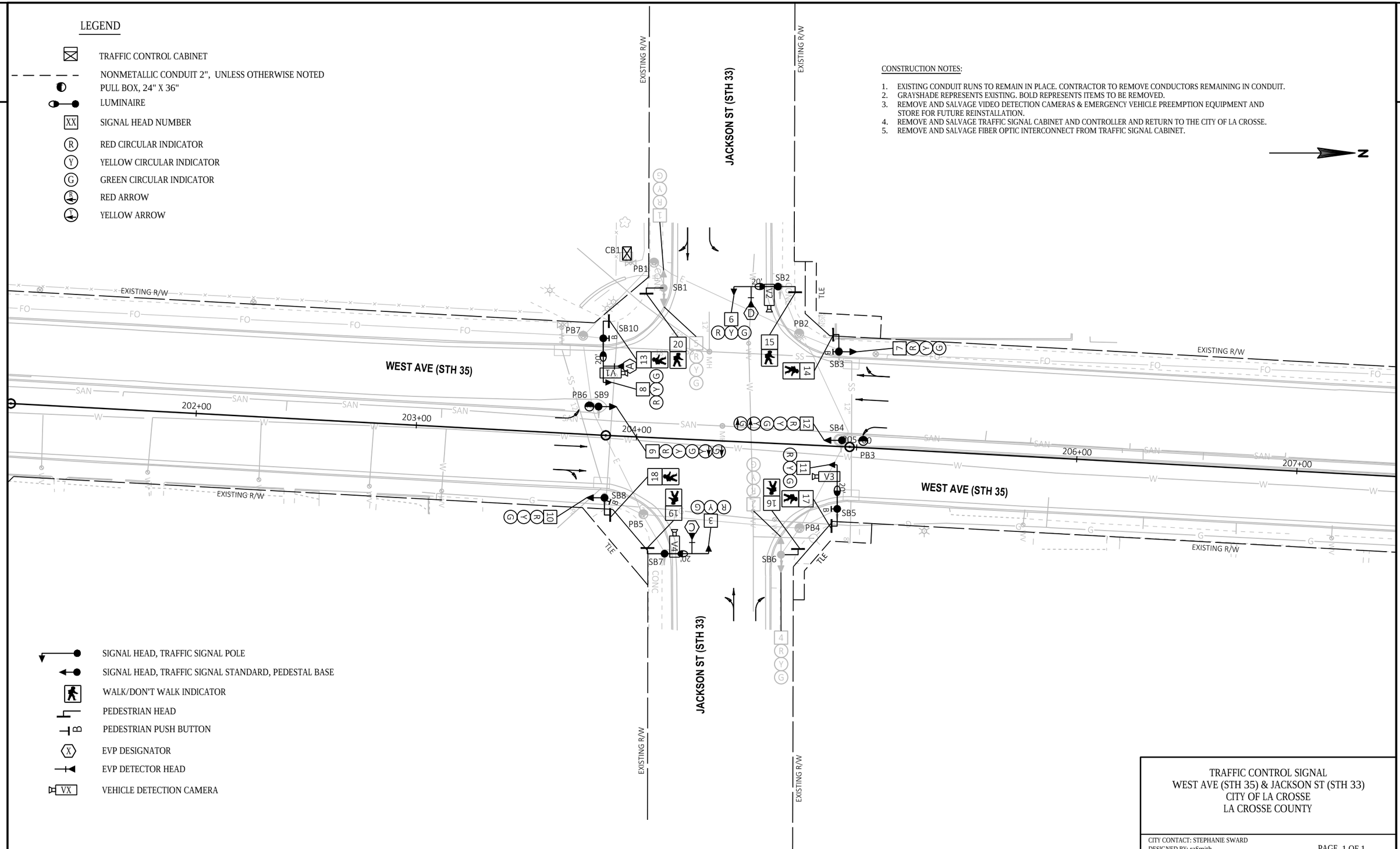
LEGEND

- TRAFFIC CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 36"
- LUMINAIRE
- XX — SIGNAL HEAD NUMBER
- R — RED CIRCULAR INDICATOR
- Y — YELLOW CIRCULAR INDICATOR
- G — GREEN CIRCULAR INDICATOR
- R — RED ARROW
- Y — YELLOW ARROW

CONSTRUCTION NOTES:

1. EXISTING CONDUIT RUNS TO REMAIN IN PLACE. CONTRACTOR TO REMOVE CONDUCTORS REMAINING IN CONDUIT.
2. GRAYSHADE REPRESENTS EXISTING. BOLD REPRESENTS ITEMS TO BE REMOVED.
3. REMOVE AND SALVAGE VIDEO DETECTION CAMERAS & EMERGENCY VEHICLE PREEMPTION EQUIPMENT AND STORE FOR FUTURE REINSTALLATION.
4. REMOVE AND SALVAGE TRAFFIC SIGNAL CABINET AND CONTROLLER AND RETURN TO THE CITY OF LA CROSSE.
5. REMOVE AND SALVAGE FIBER OPTIC INTERCONNECT FROM TRAFFIC SIGNAL CABINET.

N



- SIGNAL HEAD, TRAFFIC SIGNAL POLE
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- WALK/DON'T WALK INDICATOR
- PEDESTRIAN HEAD
- B — PEDESTRIAN PUSH BUTTON
- X — EVP DESIGNATOR
- EVP DETECTOR HEAD
- VX — VEHICLE DETECTION CAMERA

TRAFFIC CONTROL SIGNAL
WEST AVE (STH 35) & JACKSON ST (STH 33)
CITY OF LA CROSSE
LA CROSSE COUNTY

CITY CONTACT: STEPHANIE SWARD
DESIGNED BY: raSmith
REVISED BY:

PAGE 1 OF 1

PROJECT NO: 5120-02-70	HWY: STH 33	COUNTY: LA CROSSE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 18	E

FILE NAME : T:\1190937.02\CIVIL3D\16410304\SHEETSPLAN\024002-SR-JACKSON.DWG
LAYOUT NAME - Jackson

PLOT DATE : 5/25/2021 11:40 AM PLOT BY : AXT, ANDREW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- WOOD POLE, CLASS 4
- SPAN WIRE
- TEMPORARY SIGNAL HEAD
- TEMPORARY LUMINAIRE, 250 W HPS OR LED C
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- TRAFFIC SIGNAL STANDARD BASE
- MONOTUBE BASE FOR 15'-30' ARM
- MONOTUBE BASE FOR 35'-45' ARM

XX SIGNAL HEAD TO BE BAGGED

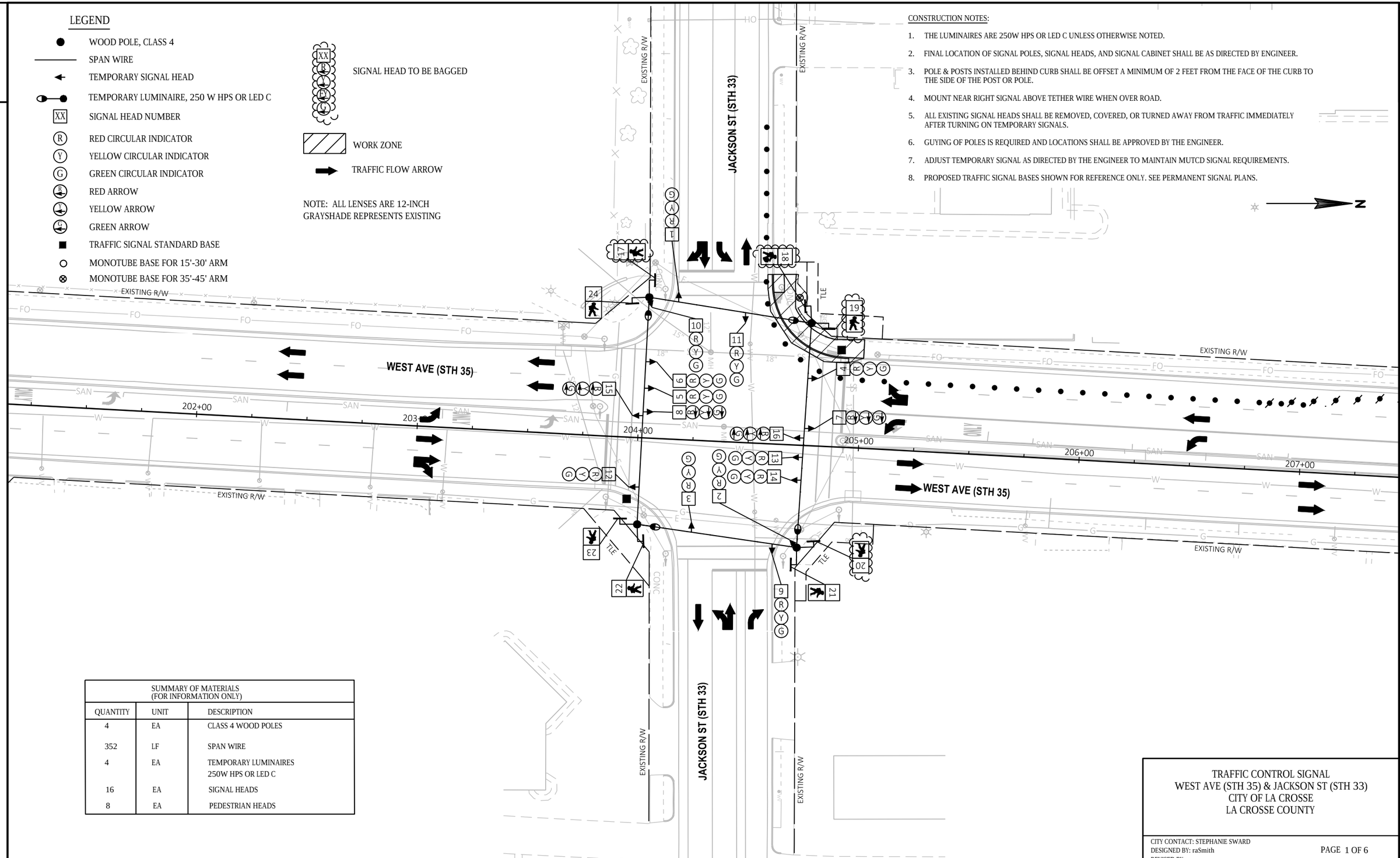
WORK ZONE

TRAFFIC FLOW ARROW

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

CONSTRUCTION NOTES:

1. THE LUMINAIRES ARE 250W HPS OR LED C UNLESS OTHERWISE NOTED.
2. FINAL LOCATION OF SIGNAL POLES, SIGNAL HEADS, AND SIGNAL CABINET SHALL BE AS DIRECTED BY ENGINEER.
3. POLE & POSTS INSTALLED BEHIND CURB SHALL BE OFFSET A MINIMUM OF 2 FEET FROM THE FACE OF THE CURB TO THE SIDE OF THE POST OR POLE.
4. MOUNT NEAR RIGHT SIGNAL ABOVE TETHER WIRE WHEN OVER ROAD.
5. ALL EXISTING SIGNAL HEADS SHALL BE REMOVED, COVERED, OR TURNED AWAY FROM TRAFFIC IMMEDIATELY AFTER TURNING ON TEMPORARY SIGNALS.
6. GUYING OF POLES IS REQUIRED AND LOCATIONS SHALL BE APPROVED BY THE ENGINEER.
7. ADJUST TEMPORARY SIGNAL AS DIRECTED BY THE ENGINEER TO MAINTAIN MUTCD SIGNAL REQUIREMENTS.
8. PROPOSED TRAFFIC SIGNAL BASES SHOWN FOR REFERENCE ONLY. SEE PERMANENT SIGNAL PLANS.



SUMMARY OF MATERIALS
(FOR INFORMATION ONLY)

QUANTITY	UNIT	DESCRIPTION
4	EA	CLASS 4 WOOD POLES
352	LF	SPAN WIRE
4	EA	TEMPORARY LUMINAIRES 250W HPS OR LED C
16	EA	SIGNAL HEADS
8	EA	PEDESTRIAN HEADS

TRAFFIC CONTROL SIGNAL
WEST AVE (STH 35) & JACKSON ST (STH 33)
CITY OF LA CROSSE
LA CROSSE COUNTY

CITY CONTACT: STEPHANIE SWARD
DESIGNED BY: raSmith
REVISED BY:

PAGE 1 OF 6

PROJECT NO: 5120-02-70	HWY: STH 33	COUNTY: LA CROSSE	TRAFFIC SIGNAL TEMPORARY - STAGE 1A	SHEET 19	E

FILE NAME : T:\1190937.02\CIVIL3D\16410304\SHEETSPLAN\024102-ST1A-JACKSON.DWG
LAYOUT NAME - Jackson

PLOT DATE : 5/25/2021 11:41 AM PLOT BY : AXT, ANDREW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

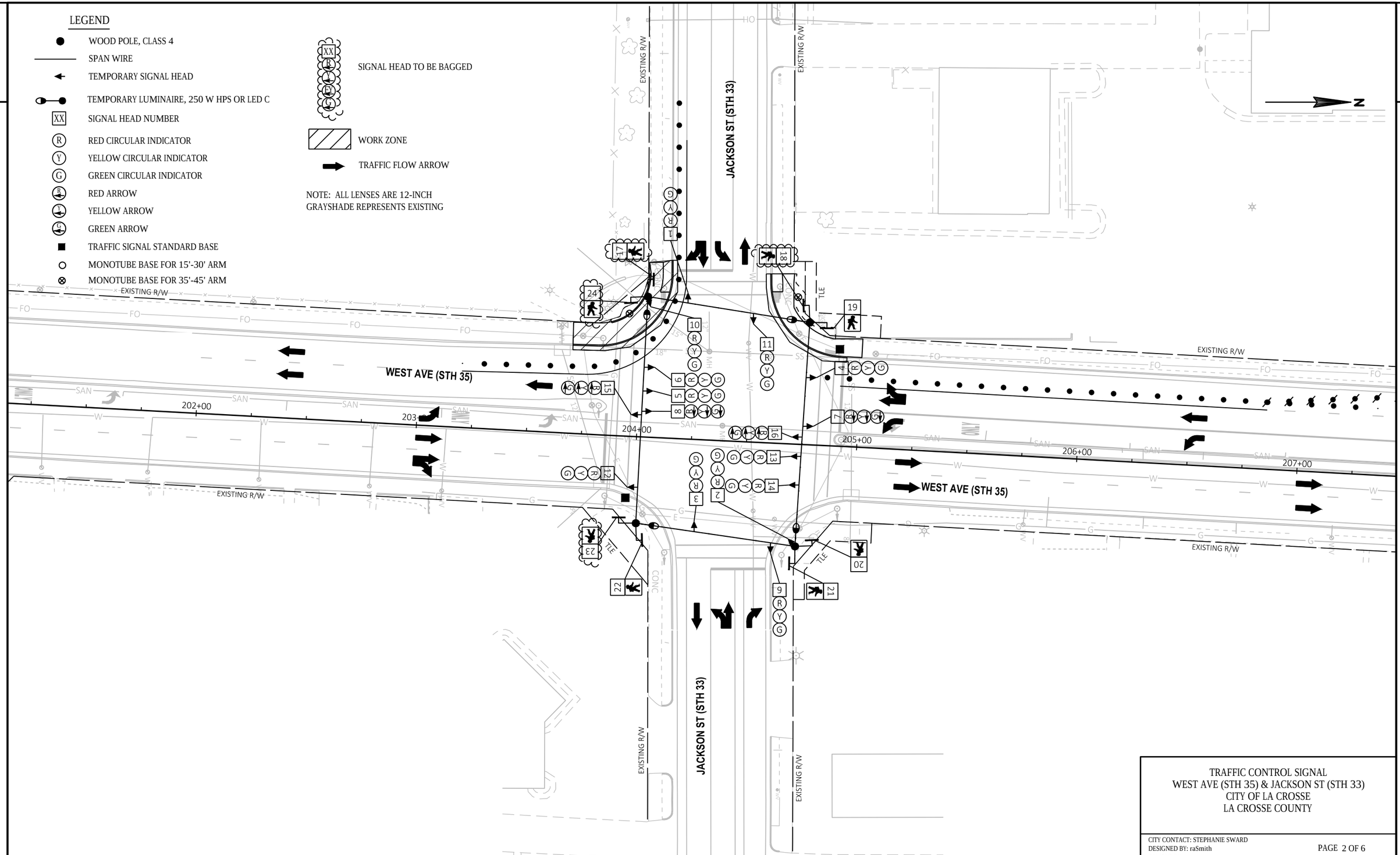
- WOOD POLE, CLASS 4
- SPAN WIRE
- TEMPORARY SIGNAL HEAD
- TEMPORARY LUMINAIRE, 250 W HPS OR LED C
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- TRAFFIC SIGNAL STANDARD BASE
- MONOTUBE BASE FOR 15'-30' ARM
- MONOTUBE BASE FOR 35'-45' ARM

XX R Y G SIGNAL HEAD TO BE BAGGED

WORK ZONE

TRAFFIC FLOW ARROW

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



TRAFFIC CONTROL SIGNAL
WEST AVE (STH 35) & JACKSON ST (STH 33)
CITY OF LA CROSSE
LA CROSSE COUNTY

CITY CONTACT: STEPHANIE SWARD
DESIGNED BY: raSmith
REVISED BY:

PAGE 2 OF 6

PROJECT NO: 5120-02-70	HWY: STH 33	COUNTY: LA CROSSE	TRAFFIC SIGNAL TEMPORARY - STAGE 1B	SHEET 20	E

FILE NAME : T:\1190937.02\CIVIL3D\16410304\SHEETSPLAN\024102-ST1B-JACKSON.DWG
LAYOUT NAME - Jackson

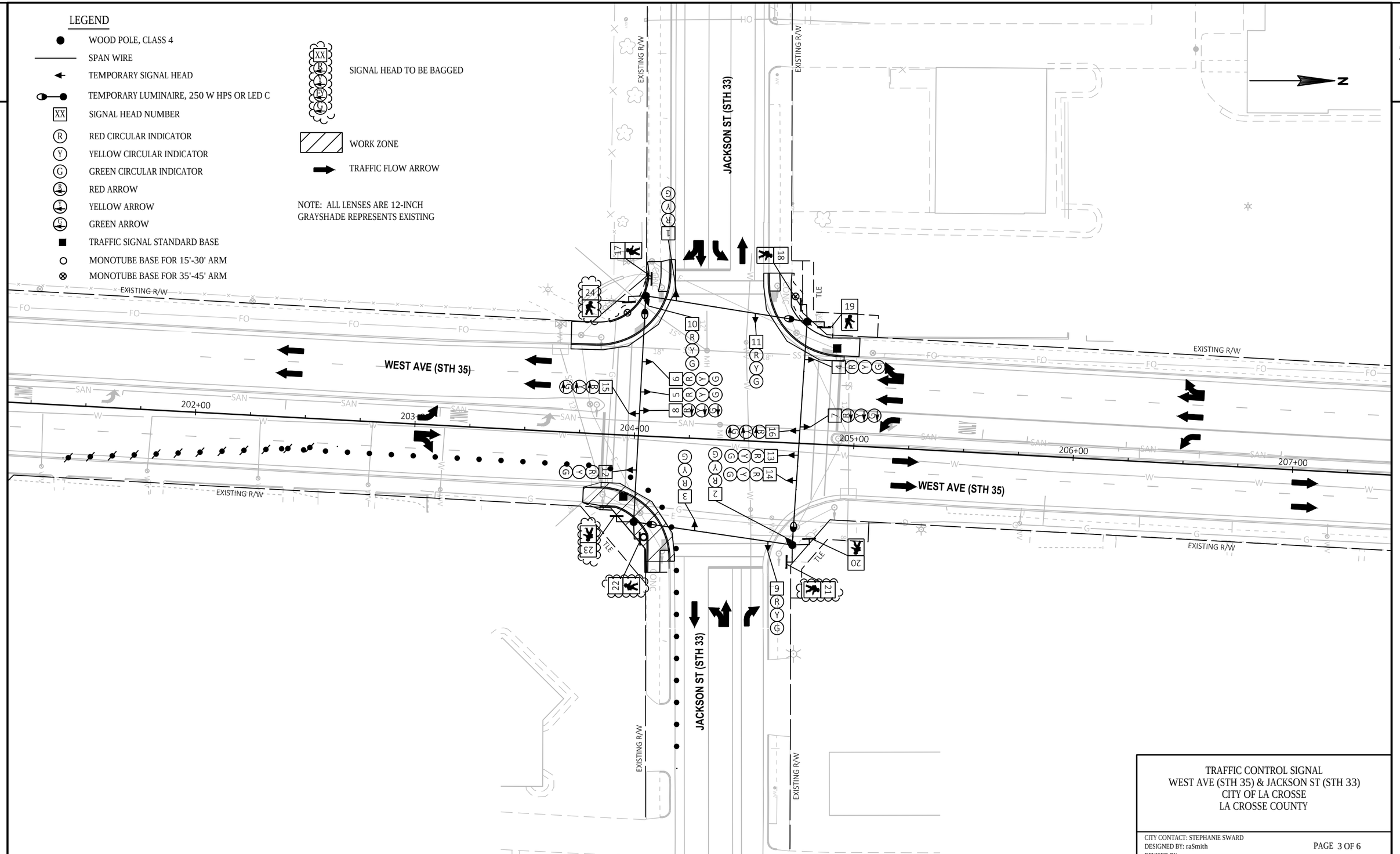
PLOT DATE : 5/25/2021 11:41 AM PLOT BY : AXT, ANDREW PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- WOOD POLE, CLASS 4
- SPAN WIRE
- TEMPORARY SIGNAL HEAD
- TEMPORARY LUMINAIRE, 250 W HPS OR LED C
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- R RED ARROW
- Y YELLOW ARROW
- G GREEN ARROW
- TRAFFIC SIGNAL STANDARD BASE
- MONOTUBE BASE FOR 15'-30' ARM
- MONOTUBE BASE FOR 35'-45' ARM

- SIGNAL HEAD TO BE BAGGED
- WORK ZONE
- TRAFFIC FLOW ARROW

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



TRAFFIC CONTROL SIGNAL
WEST AVE (STH 35) & JACKSON ST (STH 33)
CITY OF LA CROSSE
LA CROSSE COUNTY

CITY CONTACT: STEPHANIE SWARD
DESIGNED BY: raSmith
REVISED BY:

PAGE 3 OF 6

PROJECT NO: 5120-02-70	HWY: STH 33	COUNTY: LA CROSSE	TRAFFIC SIGNAL TEMPORARY - STAGE 2A	SHEET 21	E

FILE NAME : T:\1190937.02\CIVIL3D\16410304\SHEETSPLAN\024102-ST2A-JACKSON.DWG
LAYOUT NAME - Jackson

PLOT DATE : 5/25/2021 11:42 AM PLOT BY : AXT, ANDREW PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

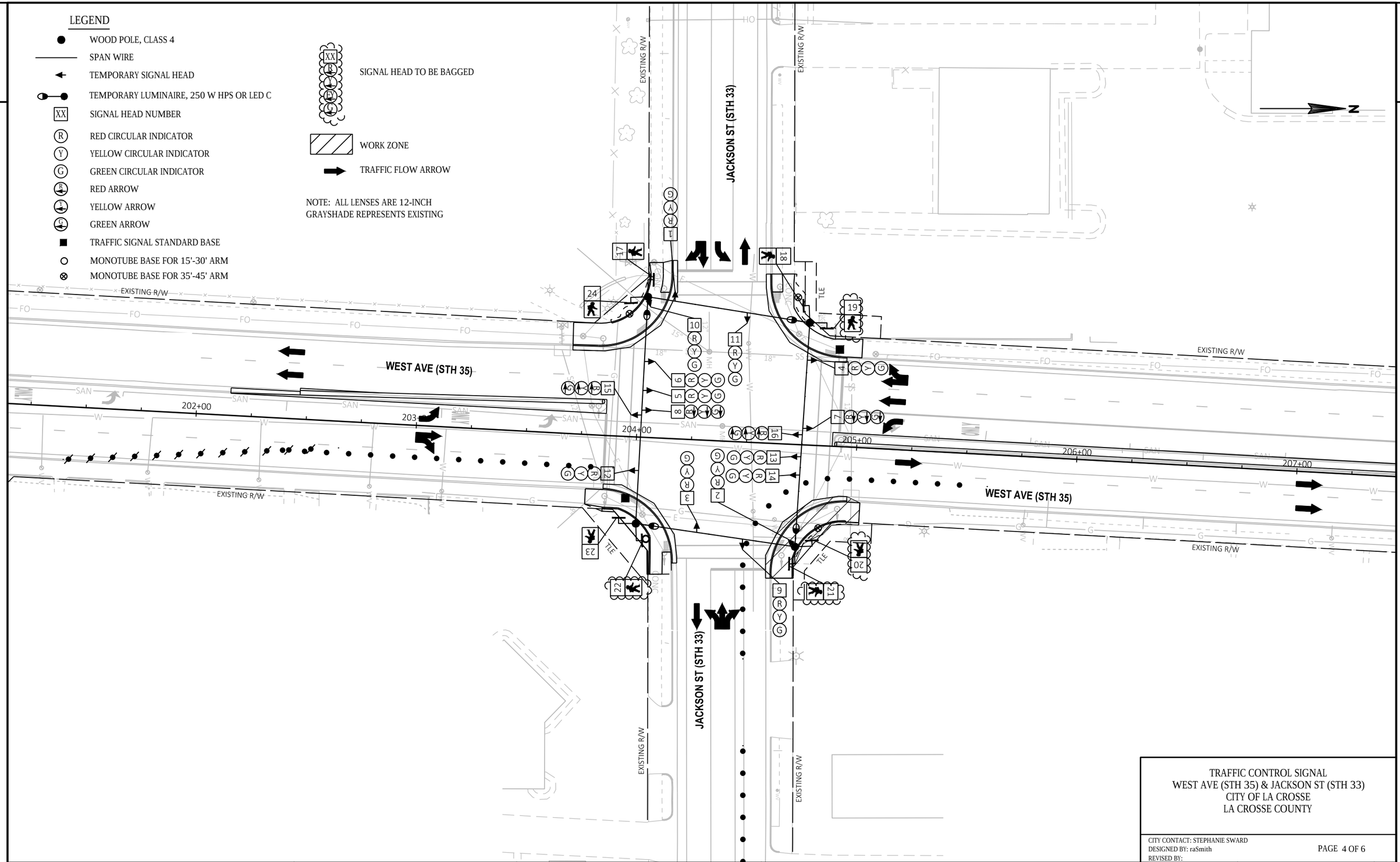
- WOOD POLE, CLASS 4
- SPAN WIRE
- TEMPORARY SIGNAL HEAD
- TEMPORARY LUMINAIRE, 250 W HPS OR LED C
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- TRAFFIC SIGNAL STANDARD BASE
- MONOTUBE BASE FOR 15'-30' ARM
- MONOTUBE BASE FOR 35'-45' ARM

XX SIGNAL HEAD TO BE BAGGED

WORK ZONE

TRAFFIC FLOW ARROW

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



TRAFFIC CONTROL SIGNAL
WEST AVE (STH 35) & JACKSON ST (STH 33)
CITY OF LA CROSSE
LA CROSSE COUNTY

CITY CONTACT: STEPHANIE SWARD
DESIGNED BY: raSmith
REVISED BY:

PAGE 4 OF 6

PROJECT NO: 5120-02-70	HWY: STH 33	COUNTY: LA CROSSE	TRAFFIC SIGNAL TEMPORARY - STAGE 2B	SHEET 22	E

FILE NAME : T:\1190937.02\CIVIL3D\16410304\SHEETSPLAN\024102-ST2B-JACKSON.DWG
LAYOUT NAME - Jackson

PLOT DATE : 5/25/2021 11:42 AM PLOT BY : AXT, ANDREW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

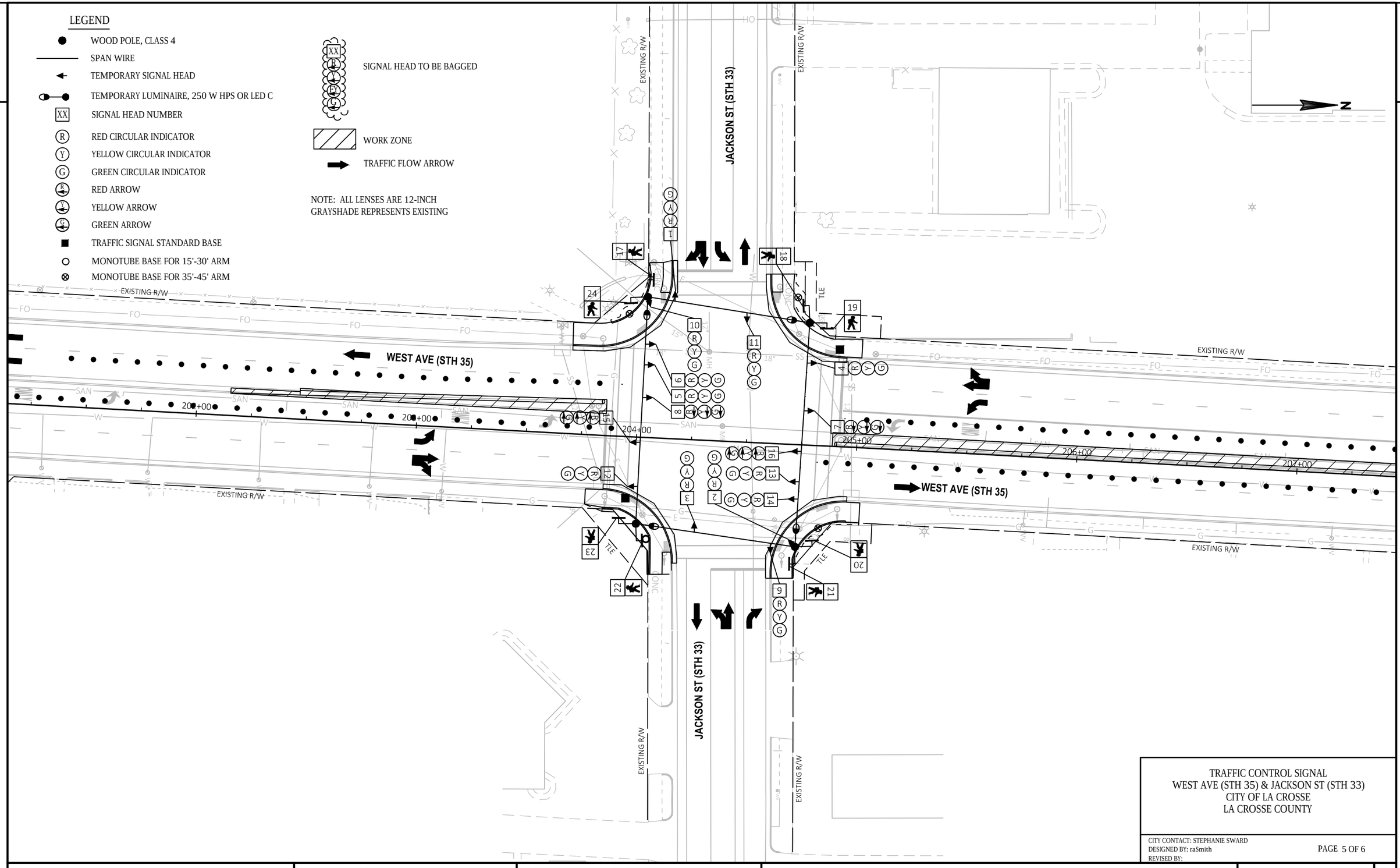
- WOOD POLE, CLASS 4
- SPAN WIRE
- TEMPORARY SIGNAL HEAD
- TEMPORARY LUMINAIRE, 250 W HPS OR LED C
- XX SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- RED ARROW
- YELLOW ARROW
- GREEN ARROW
- TRAFFIC SIGNAL STANDARD BASE
- MONOTUBE BASE FOR 15'-30' ARM
- MONOTUBE BASE FOR 35'-45' ARM

SIGNAL HEAD TO BE BAGGED

WORK ZONE

TRAFFIC FLOW ARROW

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING



TRAFFIC CONTROL SIGNAL
WEST AVE (STH 35) & JACKSON ST (STH 33)
CITY OF LA CROSSE
LA CROSSE COUNTY

CITY CONTACT: STEPHANIE SWARD
DESIGNED BY: raSmith
REVISED BY:

PAGE 5 OF 6

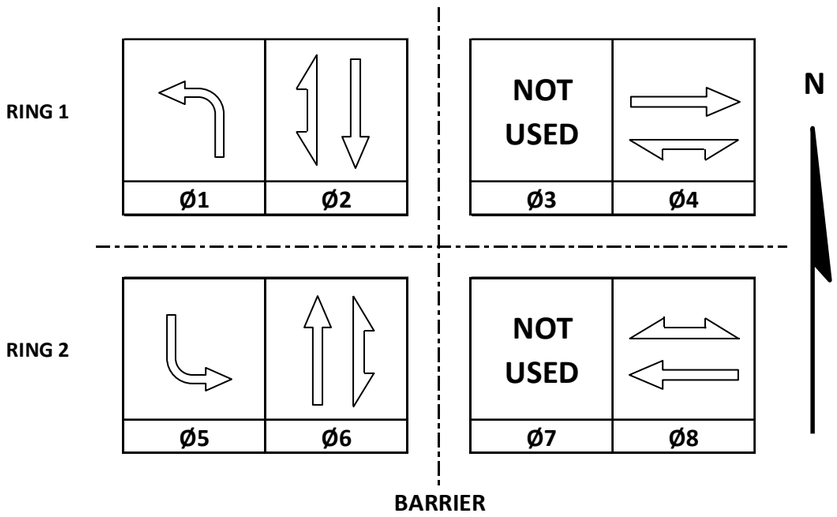
PROJECT NO: 5120-02-70	HWY: STH 33	COUNTY: LA CROSSE	TRAFFIC SIGNAL TEMPORARY - STAGE 3	SHEET 23	E

FILE NAME : T:\1190937.02\CIVIL3D\16410304\SHEETSPLAN\024102-ST3-JACKSON.DWG
LAYOUT NAME - Jackson

PLOT DATE : 5/25/2021 11:43 AM PLOT BY : AXT, ANDREW PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

	HEAD NUMBERS	FLASH
Ø1	15,16	R ←
Ø2	4,5,6	R
Ø3		
Ø4	1,2,3	R
Ø5	7,8	R ←
Ø6	12,13,14	R
Ø7		
Ø8	9,10,11	R
Ø2P	17,18	
Ø4P	23,24	
Ø6P	21,22	
Ø8P	19,20	
OLA		
OLB		
OLC		
OLD		



CONTROLLER LOGIC

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

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

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

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

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

WEST AVENUE (STH 35) & JACKSON STREET (STH 33)

CITY OF LA CROSSE

LA CROSSE COUNTY

SIGNAL NO: CABINET TYPE: TEMP

CONTROLLER TYPE: TEMP

DATE: MAY 2021 PAGE NO. 6 OF 6

2

2

LEGEND

- TRAFFIC CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, TRAFFIC SIGNAL STANDARD, PEDESTAL BASE
- PEDESTRIAN HEAD WITH AUDIBLE PUSH BUTTON
- AUDIBLE PUSH BUTTON
- LUMINAIRE, TRAFFIC POLE, TRANSFORMER BASE
- (XX) MONOTUBE BASE, POLE, 15'-30' ARM
- (XX) MONOTUBE BASE, POLE, 35'-45' ARM
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- XX SIGNAL HEAD NUMBER
- COMMUNICATION VAULT

- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- YELLOW ARROW
- GREEN ARROW
- X EVP DESIGNATOR
- EVP DETECTOR HEAD
- LANE DESIGNATION FOR INFO ONLY
- VEHICLE DETECTION AREA
- VX VEHICLE DETECTION CAMERA
- PEDESTRIAN SIGNAL HEAD (COUNTDOWN TIMER)
- XX R Y G RETROREFLECTIVE SIGNAL BACKPLATES

CONSTRUCTION NOTES:

1. PROPOSED PAVEMENT MARKINGS & DETECTABLE WARNING FIELDS GRAYSHADED FOR PLAN CLARITY.
2. RE-ROUTE EXISTING FIBER OPTIC CABLE PATH BETWEEN PB1 AND PB6 THROUGH NEW CONDUIT. RESPLICE FIBER CABLE FIBER AT CV1.
3. INSTALL CITY-FURNISHED TRAFFIC SIGNAL CABINET, CONTROLLER, ETHERNET SWITCH, AND 8-CT GATOR PATCH IN TRAFFIC SIGNAL CABINET. EXISTING TRAFFIC SIGNAL BASES TO REMAIN.
4. RECONNECT EXISTING CONDUIT AT LOCATIONS OF REMOVED PULL BOXES IN WEST AVENUE MEDIAN (SEE REMOVAL PLAN FOR REMOVED PULL BOXES).
5. INSTALL TRAFFIC SIGNAL HEADS OVER STH 33 TO MAXIMUM HEIGHT ALLOWED PER SDD TYPE 10 POLE 15'-30' MONOTUBE ARM AND SDD TYPE 10 SPECIAL POLE 35' MONOTUBE ARM.
6. REINSTALLED CAMERA AND EVP EQUIPMENT SHOWN IN BOLD FOR PLAN CLARITY.

N

JACKSON ST (STH 33)

WEST AVE (STH 35)

EXISTING R/W

180' TO NEAR RIGHT SIGNAL

CB1 PB1 2-2" 8 CT FIBER OPTIC CABLE PIGTAIL (1) NO. 10 AWG TRAFFIC SIGNAL WIRE

FIBER OPTIC SPLICE (4) FIBER OPTIC SPLICE ENCLOSURE

PB2 PB3 PB4 PB5 PB6

SB1 SB2 SB3 SB4 SB5 SB6 SB7 SB8

202+00 203+00 204+00 205+00 206+00 207+00

MONOTUBE STRUCTURE NUMBERS
SB2 = S-32-6004-08
SB4 = S-32-6004-06
SB6 = S-32-6004-04
SB8 = S-32-6004-02

TRAFFIC CONTROL SIGNAL
WEST AVE (STH 35) & JACKSON ST (STH 33)
CITY OF LA CROSSE
LA CROSSE COUNTY

CITY CONTACT: STEPHANIE SWARD
DESIGNED BY: raSmith
REVISED BY:

PAGE 1 OF 2

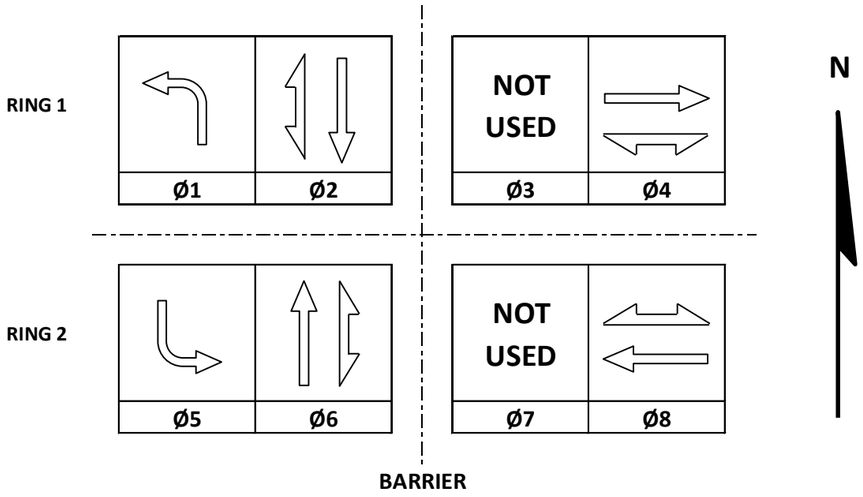
PROJECT NO: 5120-02-70	HWY: STH 33	COUNTY: LA CROSSE	TRAFFIC SIGNAL PLAN	SHEET 25	E

FILE NAME : T:\1190937.02\CIVIL3D\16410304\SHEETSPLAN\024202-SP-JACKSON.DWG
LAYOUT NAME - Jackson

PLOT DATE : 5/25/2021 11:45 AM PLOT BY : AXT, ANDREW PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

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



CONTROLLER LOGIC

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

EMERGENCY VEHICLE PREEMPTION SEQUENCE

EMERGENCY VEHICLE PREEMPTOR	A	B	C	D
MOVEMENT	↓		→	←
PHASE	2+5		4	8

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

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

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

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

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

DETECTOR LOGIC

DETECTOR INPUT	3	1	7	5	11	9	15	13
PLAN LOOP DETECTOR*(S)	11	21	41	42	51	61	81	82
CALLED PHASE	1	2	4	4	5	6	8	8
CALL OPTION	X	X	X	X	X	X	X	X
DELAY TIME								
EXTENTION OPTION	X	X	X	X	X	X	X	X
EXTEND TIME								
USE ADDED INITIAL		X				X		
CROSS SWITCH PHASE								

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

DETECTOR INPUT	4	2	8	6	12	10	16	14
PLAN LOOP DETECTOR*(S)				43				83
CALLED PHASE				4				8
CALL OPTION				X				X
DELAY TIME								
EXTENTION OPTION				X				X
EXTEND TIME								
USE ADDED INITIAL								
CROSS SWITCH PHASE								

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

WEST AVENUE (STH 35) & JACKSON STREET (STH 33)
CITY OF LA CROSSE
LA CROSSE COUNTY
SIGNAL NO: CABINET TYPE: TS2
CONTROLLER TYPE: ECONOLITE
DATE: MAY 2021 PAGE NUMBER: 2 OF 2

FILE NAME: \\rasmith.com\Brookfield\Transportation\1190937.02\Traffic\Signal Design\Sequence Sheets\West & Jackson\TS2-S_E_FYA_EFGH_Econolite_SEQ.xlsx PLOT DATE: ######## PLOT NAME: TS2-S_E_FYA_EFGH_Ecor PLOT BY: _____ PLOT SCALE: 1:1

PROJECT ID:	5120-02-70
INTERSECTION:	West Avenue & Jackson Street

Signal Wire Color Coding	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

DATE 4/27/21

				SIGNAL INDICATION WIRE COLOR									PED	
CB1 TO	JUMPER	# OF COND.	HEAD NO.	RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	<FLASHING YELLOW>	D/WALK	WALK	BUTTON	APS
SB1		12	1	RED/BLK	ORG/BLK	GRN/BLK								
			2	RED	ORG	GRN								
			15								BLK	BLU		
			BUTTON										WHT/BLK	BLU/BLK
SB2		12	3	RED	ORG	GRN								
			16								BLK	BLU		
			BUTTON										WHT/BLK	BLU/BLK
SB3		15	4	RED	ORG	GRN		BLU/WHT	GRN/WHT					
			5	RED/BLK	ORG/BLK	GRN/BLK								
			17								BLK	BLU		
			BUTTON										WHT/BLK	BLU/BLK
SB4		12	6	RED	ORG	GRN								
			7	RED	ORG	GRN		ORG/BLK	GRN/BLK					
			18								BLK	BLU		
			BUTTON										WHT/BLK	BLU/BLK
SB5		12	8	RED/BLK	ORG/BLK	GRN/BLK								
			9	RED	ORG	GRN								
			19								BLK	BLU		
			BUTTON										WHT/BLK	BLU/BLK
SB6		12	10	RED	ORG	GRN								
			20								BLK	BLU		
			BUTTON										WHT/BLK	BLU/BLK
SB7		15	11	RED	ORG	GRN								
			12	RED/BLK	ORG/BLK	GRN/BLK		BLU/WHT	GRN/WHT					
			21								BLK	BLU		
			BUTTON										WHT/BLK	BLU/BLK
SB8		12	13	RED	ORG	GRN								
			14	RED	ORG	GRN		ORG/BLK	GRN/BLK					
			22								BLK	BLU		
			BUTTON										WHT/BLK	BLU/BLK

EQUIPMENT GROUNDING CONDUCTOR 10 AWG GRN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	CB1

PULL BOX BONDING JUMPER 10 AWG GRN XLP	
FROM	TO
PB1	SB1
PB2	SB2
PB4	SB4
PB5	SB7
PB6	SB8

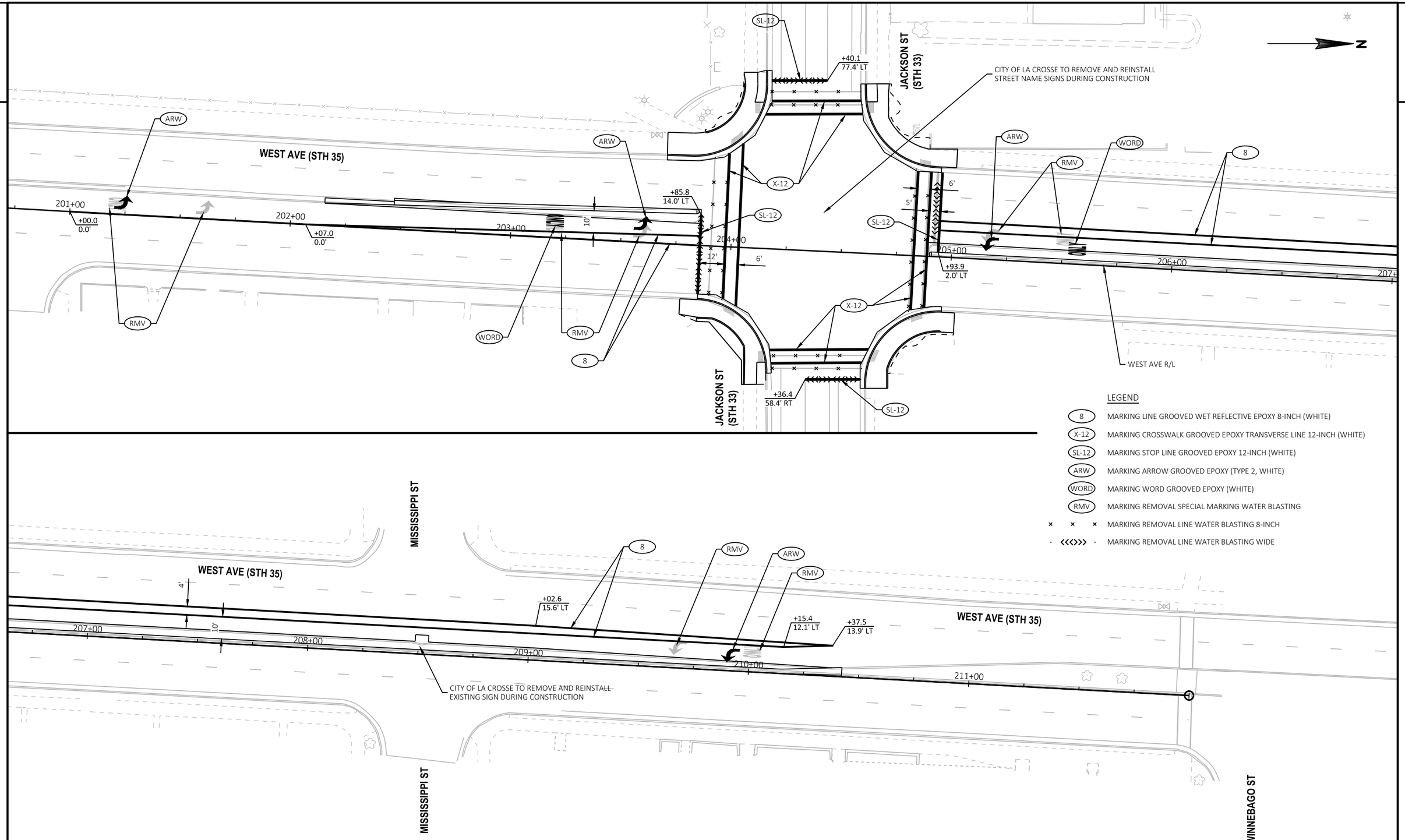
LIGHTING UF 10 AWG W/GROUND	
FROM	TO
CB1	SB2
SB2	SB4
CB1	SB8
SB8	SB6

EMERGENCY VEHICLE PREEMPTION (EVP) CABLE	
FROM	TO
CB1	HEAD A (SB8)
CB1	HEAD C (SB6)
CB1	HEAD D (SB2)

VIDEO DETECTION CABLE	
FROM	TO
CB1	V1 (SB2)
CB1	V2 (SB4)
CB1	V3 (SB6)
CB1	V4 (SB8)

*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 18" longer than the ungrounded conductors.
*At the signal bases, connect one terminal from the pedestrian push buttons to the color indicated in the chart. Connect the other terminal to the grounded conductor.
*Reconnect the grounding conductors wherever the circuit has been interrupted to ensure the grounding circuit is complete.

2



LEGEND

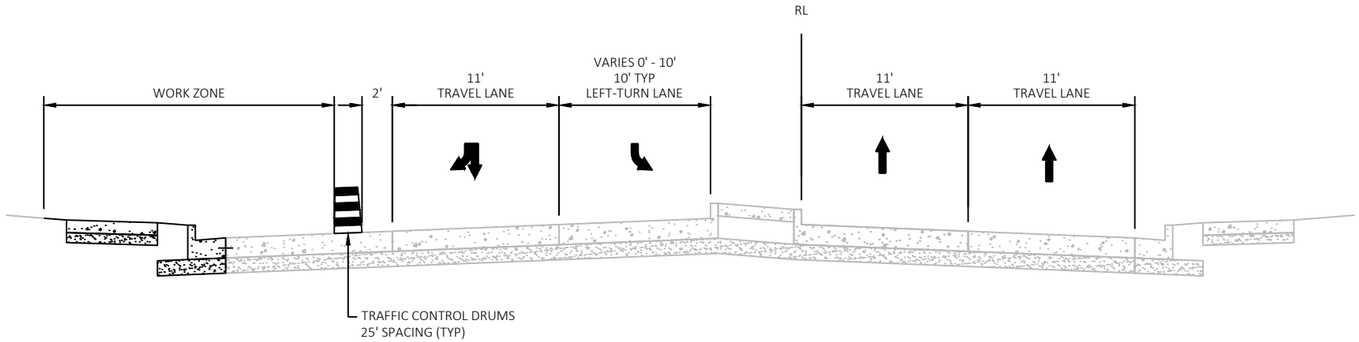
8	MARKING LINE GROOVED WET REFLECTIVE EPOXY 8-INCH (WHITE)
X-12	MARKING CROSSWALK GROOVED EPOXY TRANSVERSE LINE 12-INCH (WHITE)
SL-12	MARKING STOP LINE GROOVED EPOXY 12-INCH (WHITE)
ARW	MARKING ARROW GROOVED EPOXY (TYPE 2, WHITE)
WORD	MARKING WORD GROOVED EPOXY (WHITE)
RMV	MARKING REMOVAL SPECIAL MARKING WATER BLASTING
× × ×	MARKING REMOVAL LINE WATER BLASTING 8-INCH
· ‹‹‹››› ·	MARKING REMOVAL LINE WATER BLASTING WIDE

PROJECT NO: 5120-02-70	HWY: STH 33	COUNTY: LA CROSSE	PAVEMENT MARKING	SHEET 28	E

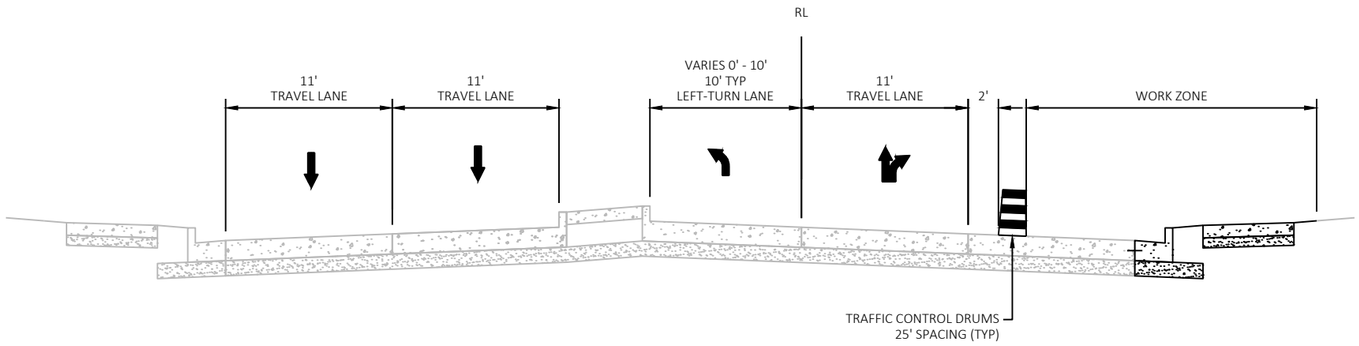
2

TRAFFIC CONTROL NOTES:

1. MAINTAIN MINIMUM ONE 11' LANE IN EACH DIRECTION ON JACKSON ST AND WEST AVE.
2. MAINTAIN ACCESS TO ALL DRIVEWAYS EXCEPT WHEN WORKING IMMEDIATELY IN FRONT OF DRIVEWAY.
3. SEE SDD TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON FREEWAY/EXPRESSWAY.
4. SEE SDD TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION FOR SIDEWALK CLOSURES AND PEDESTRIAN DETOURS.
5. ALL SIGNS SHALL BE 48"X48" UNLESS NOTED OTHERWISE.
6. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
7. PERMANENT PAVEMENT MARKING SHALL BE INSTALLED WHEN APPROPRIATE DURING CONSTRUCTION STAGING OR AS DIRECTED BY THE ENGINEER.
8. SEE PLAN FOR JACKSON ST TRAFFIC CONTROL LAYOUT AND DEVICES.



TRAFFIC CONTROL - STAGE 1
WEST AVE
(LOOKING NORTH)

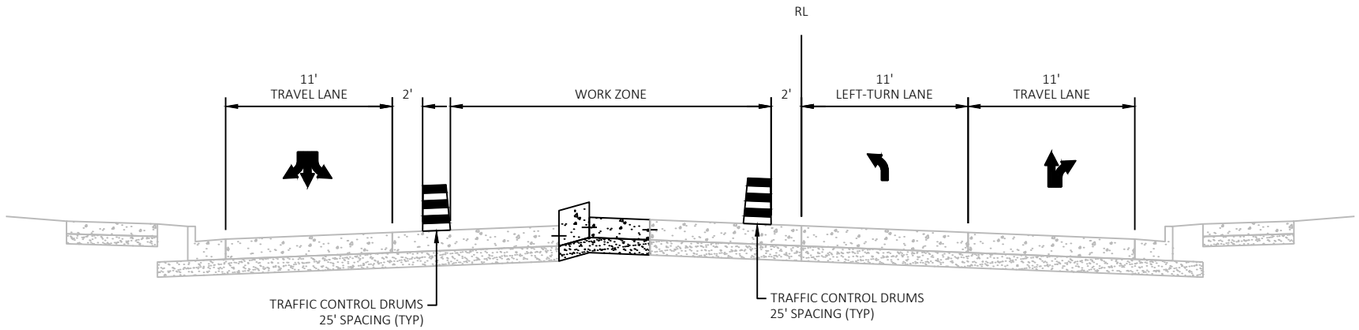


TRAFFIC CONTROL - STAGE 2
WEST AVE
(LOOKING NORTH)

2

TRAFFIC CONTROL NOTES:

1. MAINTAIN MINIMUM ONE 11' LANE IN EACH DIRECTION ON JACKSON ST AND WEST AVE.
2. MAINTAIN ACCESS TO ALL DRIVEWAYS EXCEPT WHEN WORKING IMMEDIATELY IN FRONT OF DRIVEWAY.
3. SEE SDD TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON FREEWAY/EXPRESSWAY.
4. SEE SDD TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION FOR SIDEWALK CLOSURES AND PEDESTRIAN DETOURS.
5. ALL SIGNS SHALL BE 48"X48" UNLESS NOTED OTHERWISE.
6. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
7. PERMANENT PAVEMENT MARKING SHALL BE INSTALLED WHEN APPROPRIATE DURING CONSTRUCTION STAGING OR AS DIRECTED BY THE ENGINEER.
8. SEE PLAN FOR JACKSON ST TRAFFIC CONTROL LAYOUT AND DEVICES.



WEST AVE
THROUGH JACKSON ST INTERSECTION

TRAFFIC CONTROL - STAGE 3
WEST AVE
(LOOKING NORTH)
NORTHBOUND LEFT-TURN LANE SHOWN
SOUTHBOUND LEFT-TURN LANE IS MIRROR IMAGE

PROJECT NO: 5120-02-70	HWY: STH 33	COUNTY: LA CROSSE	TRAFFIC CONTROL	SHEET 30	E

2

N

PCMS MESSAGING
MB
ROAD WORK BEGINS XX/XX

11TH ST

JACKSON ST (STH 33)

* SIDEWALK CLOSED AHEAD CROSS HERE
R9-11
24"X12"

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

WO4-2R

RIGHT LANE CLOSED AHEAD
W20-5A

ROAD WORK AHEAD
W20-1A

MAX. 12' WIDTH
W12-52
48"X48"

200' 200' 200' 200' 200' MB

PCMS MESSAGING
ROAD WORK BEGINS XX/XX

SIDEWALK CLOSED
R9-9
24"X12"

** TRUCK
M4-4
24"X12"

R3-1
24"X24"

EXISTING R/W

* SIDEWALK CLOSED AHEAD CROSS HERE
R9-11
24"X12"

END ROAD WORK
G20-2A
48"X24"

WEST AVE (STH 35)

LANE CLOSED
R11-2L
48"X30"

WO1-6
48"X24"

WINNEBAGO ST

202 204 206 208 210

WEST AVE R/L

MB
PCMS MESSAGING
ROAD WORK BEGINS XX/XX

TRUCK
M4-4
24"X12"

R3-2
24"X24"

JOHNSON ST

MISSISSIPPI ST

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

MAX. 12' WIDTH
W12-52
48"X48"

200' 200' MB

PCMS MESSAGING
ROAD WORK BEGINS XX/XX

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL SIGN ON PERMANENT / TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUMS (25' SPACING)
- TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C (25' SPACING)
- WORK ZONE
- TRAFFIC FLOW
- MB PORTABLE CHANGEABLE MESSAGE BOARD
- PEDESTRIAN DETOUR ROUTE (WEST AVE)
- PEDESTRIAN DETOUR ROUTE (JACKSON ST)

*TEMPORARY PEDESTRIAN ACCOMMODATION SIGNS TO BE PLACED ON TYPE II BARRICADES

**16"X16" FLAGS INCIDENTAL TO TRAFFIC CONTROL SIGNS

PROJECT NO: 5120-02-70	HWY: STH 33	COUNTY: LA CROSSE	TRAFFIC CONTROL - STAGE 1A	SHEET 31	E

FILE NAME : T:\1190937.02\CIVIL3D\16410304\SHEETSPLAN\026001-TC1A.DWG
LAYOUT NAME - Jackson

PLOT DATE : 5/20/2021 8:32 AM PLOT BY : AXT, ANDREW PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

MAX. 12' WIDTH
W12-52
48"X48"

ROAD WORK AHEAD
W20-1A

SHOULDER WORK
W21-5

200'

200'

200'

11TH ST

* SIDEWALK CLOSED AHEAD CROSS HERE
R9-11
24"X12"

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

W04-2R

RIGHT LANE CLOSED AHEAD
W20-5A

ROAD WORK AHEAD
W20-1A

MAX. 12' WIDTH
W12-52
48"X48"

200'

200'

200'

200'

* SIDEWALK CLOSED AHEAD CROSS HERE
R9-11
24"X12"

END ROAD WORK
G20-2A
48"X24"

* SIDEWALK CLOSED AHEAD CROSS HERE
R9-11
24"X12"

SIDEWALK CLOSED
R9-9
24"X12"

EXISTING R/W

JACKSON ST (STH 33)

EXISTING R/W

** TRUCK
M4-4
24"X12"

R3-1
24"X24"

LANE CLOSED
R11-2L
48"X30"

LANE CLOSED
R11-2L
48"X30"

WO1-6
48"X24"

WEST AVE (STH 35)

EXISTING R/W

EXISTING R/W

WEST AVE (STH 35)

202

204

206

208

210

EXISTING R/W

EXISTING R/W

WEST AVE R/L

WEST AVE R/L

WINNEBAGO ST

* SIDEWALK CLOSED AHEAD CROSS HERE
R9-11
24"X12"

EXISTING R/W

EXISTING R/W

** TRUCK
M4-4
24"X12"

R3-2
24"X24"

** TRUCK
M4-4
24"X12"

R3-2
24"X24"

JOHNSON ST

END ROAD WORK
G20-2A
48"X24"

JACKSON ST (STH 33)

ROAD WORK AHEAD
W20-1A

MISSISSIPPI ST

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL SIGN ON PERMANENT / TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUMS (25' SPACING)
- TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C (25' SPACING)
- WORK ZONE
- TRAFFIC FLOW
- PEDESTRIAN DETOUR ROUTE (WEST AVE)
- PEDESTRIAN DETOUR ROUTE (JACKSON ST)

*TEMPORARY PEDESTRIAN ACCOMMODATION SIGNS TO BE PLACED ON TYPE II BARRICADES

**16"X16" FLAGS INCIDENTAL TO TRAFFIC CONTROL SIGNS

PROJECT NO: 5120-02-70	HWY: STH 33	COUNTY: LA CROSSE	TRAFFIC CONTROL - STAGE 1B	SHEET 32	E

FILE NAME : T:\1190937.02\CIVIL3D\16410304\SHEETSPLAN\026001-TC1B.DWG
LAYOUT NAME - Jackson

PLOT DATE : 5/20/2021 8:32 AM PLOT BY : AXT, ANDREW PLOT NAME : PLOT SCALE : ##########

2

N

MAX. 12' WIDTH
W12-52
48"X48"

ROAD WORK AHEAD
W20-1A

SHOULDER WORK
W21-5

200' 200' 200'

11TH ST

END ROAD WORK
G20-2A
48"X24"

JACKSON ST (STH 33)

EXISTING R/W

* SIDEWALK CLOSED AHEAD CROSS HERE
R9-11
24"X12"

** TRUCK
M4-4
24"X12"

R3-2
24"X24"

WEST AVE (STH 35)

202 204 206 208 210

WEST AVE R/L

WINNEBAGO ST

WO1-6
48"X24"

LANE CLOSED
R11-2L
48"X30"

R3-1
24"X24"

SIDEWALK CLOSED
R9-9
24"X12"

JOHNSON ST

MAX. 12' WIDTH
W12-52
48"X48"

ROAD WORK AHEAD
W20-1A

RIGHT LANE CLOSED AHEAD
W20-5A

WO4-2R

200' 200' 200' 200'

JACKSON ST (STH 33)

MISSISSIPPI ST

ROAD WORK AHEAD
W20-1A

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

PLACE 200' EAST OF 13TH ST INTERSECTION

13TH ST

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL SIGN ON PERMANENT / TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUMS (25' SPACING)
- TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C (25' SPACING)
- WORK ZONE
- TRAFFIC FLOW
- PEDESTRIAN DETOUR ROUTE (WEST AVE)
- PEDESTRIAN DETOUR ROUTE (JACKSON ST)

*TEMPORARY PEDESTRIAN ACCOMMODATION SIGNS TO BE PLACED ON TYPE II BARRICADES

**16"X16" FLAGS INCIDENTAL TO TRAFFIC CONTROL SIGNS

PROJECT NO: 5120-02-70	HWY: STH 33	COUNTY: LA CROSSE	TRAFFIC CONTROL - STAGE 2A	SHEET 33	E

FILE NAME : T:\1190937.02\CIVIL3D\16410304\SHEETSPLAN\026002-TC2A.DWG
LAYOUT NAME - Jackson

PLOT DATE : 5/20/2021 8:32 AM PLOT BY : AXT, ANDREW PLOT NAME : PLOT SCALE : ##########

2

N

11TH ST

ROAD WORK AHEAD
W20-1A

END ROAD WORK
G20-2A
48"X24"

** TRUCK
M4-4
24"X12"

R3-2
24"X24"

EXISTING R/W

JACKSON ST (STH 33)

EXISTING R/W

* SIDEWALK CLOSED AHEAD CROSS HERE
R9-11
24"X12"

WINNEBAGO ST

WEST AVE (STH 35)

EXISTING R/W

202 204 206 208 210

EXISTING R/W

WEST AVE (STH 35)

EXISTING R/W

WO1-6
48"X24"

WEST AVE R/L

SIDEWALK CLOSED
R9-9
24"X12"

LANE CLOSED
R11-2L
48"X30"

LANE CLOSED
R11-2L
48"X30"

END ROAD WORK
G20-2A
48"X24"

WEST AVE R/L

* SIDEWALK CLOSED AHEAD CROSS HERE
R9-11
24"X12"

JOHNSON ST

EXISTING R/W

EXISTING R/W

* SIDEWALK CLOSED AHEAD CROSS HERE
R9-11
24"X12"

MAINTAIN ACCESS TO ALLEY AND COMMERCIAL DRIVEWAY

MISSISSIPPI ST

MAX. 12' WIDTH
W12-52
48"X48"

ROAD WORK AHEAD
W20-1A

RIGHT LANE CLOSED AHEAD
W20-5A

W04-2R

200' 200' 200' 200'

** TRUCK
M4-4
24"X12"

R3-1
24"X24"

R3-6V
42"X48"

COVER

COVER EXISTING OVERHEAD SIGN WITH R3-6V SIGN

LANE CLOSED
R11-2L
48"X30"

END ROAD WORK
G20-2A
48"X24"

JACKSON ST (STH 33)

ROAD WORK AHEAD
W20-1A

RIGHT LANE CLOSED AHEAD
W20-5A

ROAD WORK AHEAD
W20-1A

MAX. 12' WIDTH
W12-52
48"X48"

200' 200' 200'

* SIDEWALK CLOSED AHEAD CROSS HERE
R9-11
24"X12"

13TH ST

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL SIGN ON PERMANENT / TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUMS (25' SPACING)
- TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C (25' SPACING)
- WORK ZONE
- TRAFFIC FLOW
- PEDESTRIAN DETOUR ROUTE (WEST AVE)
- PEDESTRIAN DETOUR ROUTE (JACKSON ST)

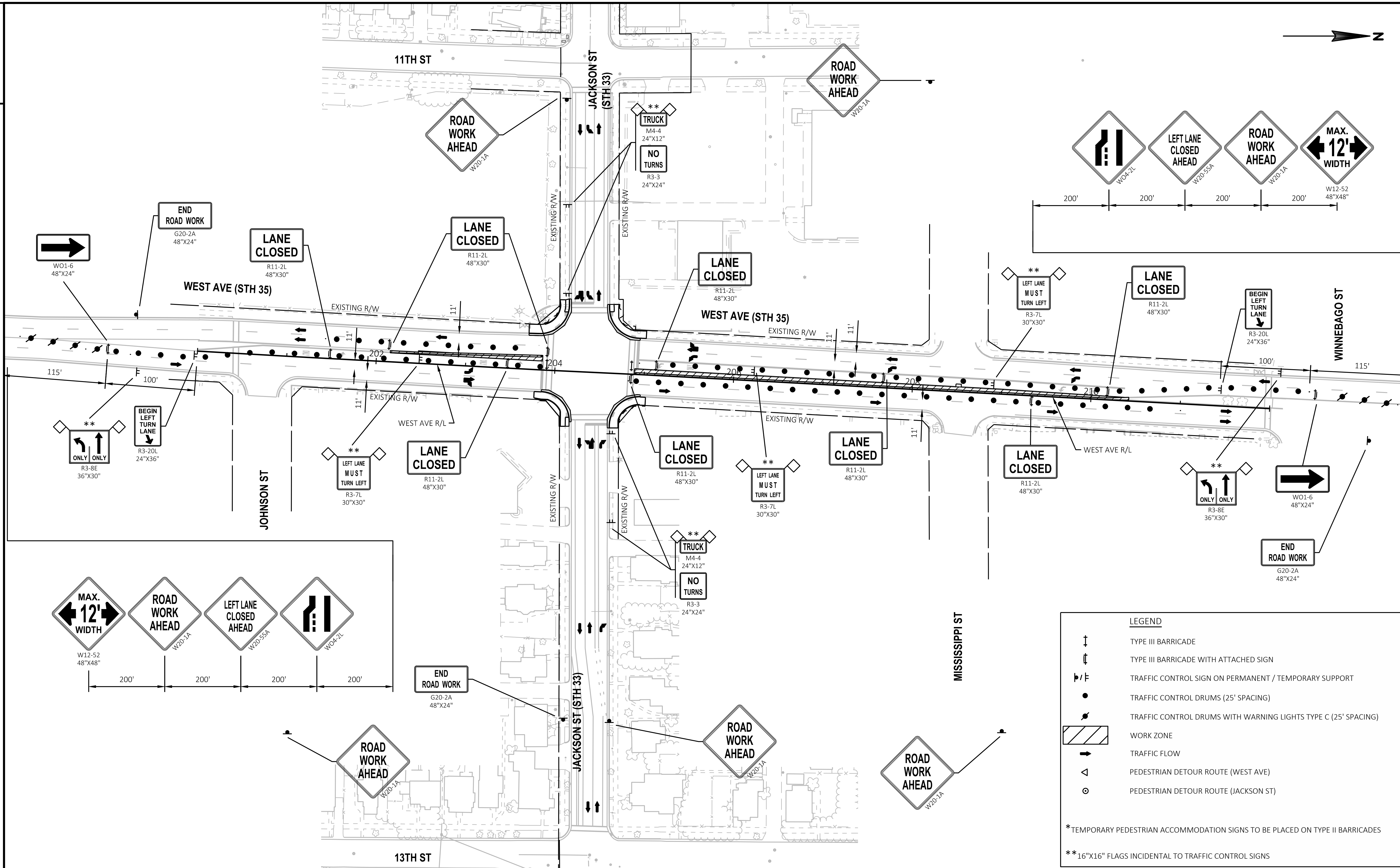
*TEMPORARY PEDESTRIAN ACCOMMODATION SIGNS TO BE PLACED ON TYPE II BARRICADES

**16"X16" FLAGS INCIDENTAL TO TRAFFIC CONTROL SIGNS

PROJECT NO: 5120-02-70	HWY: STH 33	COUNTY: LA CROSSE	TRAFFIC CONTROL - STAGE 2B	SHEET 34	E

FILE NAME : T:\1190937.02\CIVIL3D\16410304\SHEETSPLAN\026002-TC2B.DWG
LAYOUT NAME - Jackson

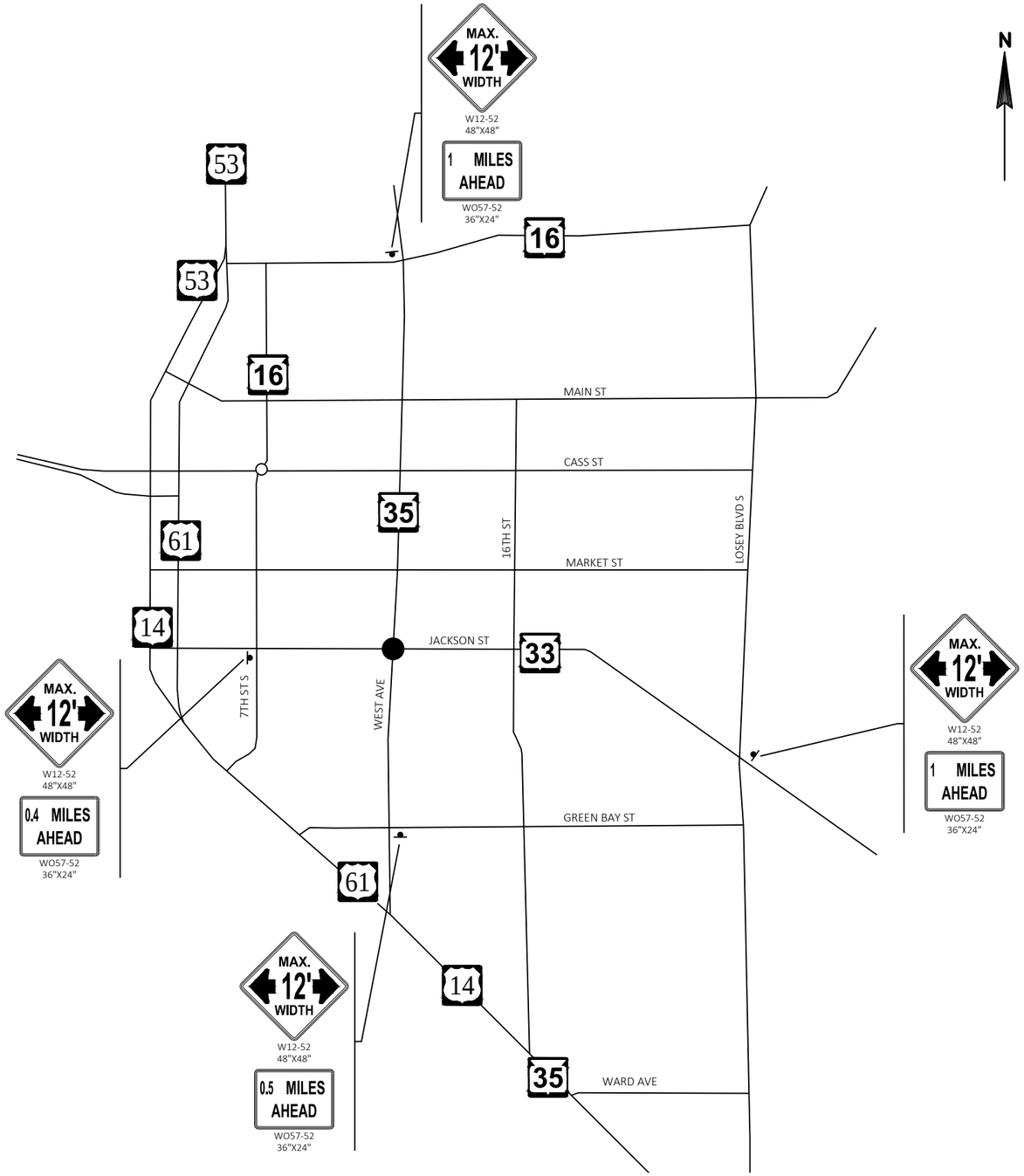
PLOT DATE : 5/20/2021 8:32 AM PLOT BY : AXT, ANDREW PLOT NAME : PLOT SCALE : ##########


2
2
N
11TH ST
JACKSON ST (STH 33)
ROAD WORK AHEAD
W20-1A
TRUCK
M4-4
24"X12"
NO TURNS
R3-3
24"X24"
W04-2L
LEFT LANE CLOSED AHEAD
W20-55A
MAX. 12' WIDTH
W12-52
48"X48"
200'
END ROAD WORK
G20-2A
48"X24"
WO1-6
48"X24"
LANE CLOSED
R11-2L
48"X30"
WEST AVE (STH 35)
EXISTING R/W
LEFT LANE MUST TURN LEFT
R3-7L
30"X30"
BEGIN LEFT TURN LANE
R3-20L
24"X36"
WINNEBAGO ST
11'
115'
100'
202
204
206
208
210
ONLY ONLY
R3-8E
36"X30"
WEST AVE R/L
JOHNSON ST
MISSISSIPPI ST
13TH ST
LEGEND
TYPE III BARRICADE
TYPE III BARRICADE WITH ATTACHED SIGN
TRAFFIC CONTROL SIGN ON PERMANENT / TEMPORARY SUPPORT
TRAFFIC CONTROL DRUMS (25' SPACING)
TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C (25' SPACING)
WORK ZONE
TRAFFIC FLOW
PEDESTRIAN DETOUR ROUTE (WEST AVE)
PEDESTRIAN DETOUR ROUTE (JACKSON ST)
*TEMPORARY PEDESTRIAN ACCOMMODATION SIGNS TO BE PLACED ON TYPE II BARRICADES
**16"X16" FLAGS INCIDENTAL TO TRAFFIC CONTROL SIGNS

PROJECT NO: 5120-02-70	HWY: STH 33	COUNTY: LA CROSSE	TRAFFIC CONTROL - STAGE 3	SHEET 35	E

FILE NAME : T:\1190937.02\CIVIL3D\16410304\SHEETSPLAN\026003-TC3.DWG
LAYOUT NAME - Jackson
PLOT DATE : 5/20/2021 8:32 AM PLOT BY : AXT, ANDREW PLOT NAME : PLOT SCALE : ##########
WISDOT/CADDS SHEET 42

2



ADVANCED WIDTH RESTRICTION SIGNING

SEE SDD TRAFFIC CONTROL ADVANCED WIDTH RESTRICTION SIGNING FOR ADDITIONAL INFORMATION

PROJECT NO: 5120-02-70	HWY: STH 33	COUNTY: LA CROSSE	TRAFFIC CONTROL - STAGES 1, 2, AND 3	SHEET 36	E

Estimate Of Quantities

5120-02-70

Line	Item	Item Description	Unit	Total	Qty
0002	204.0150	Removing Curb & Gutter	LF	1,642.000	1,642.000
0004	204.0155	Removing Concrete Sidewalk	SY	453.000	453.000
0006	204.0195	Removing Concrete Bases	EACH	8.000	8.000
0008	204.9105.S	Removing (item description) 01. Removing Traffic Signals (West Ave & Jackson St)	LS	1.000	1.000
0010	211.0200	Prepare Foundation for Concrete Pavement (project) 01. 5120-02-70	LS	1.000	1.000
0012	213.0100	Finishing Roadway (project) 01. 5120-02-70	EACH	1.000	1.000
0014	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	133.000	133.000
0016	415.0080	Concrete Pavement 8-Inch	SY	263.000	263.000
0018	416.0610	Drilled Tie Bars	EACH	571.000	571.000
0020	416.0620	Drilled Dowel Bars	EACH	6.000	6.000
0022	465.0105	Asphaltic Surface	TON	3.000	3.000
0024	601.0417	Concrete Curb & Gutter 30-Inch Type K	LF	237.000	237.000
0026	601.0600	Concrete Curb Pedestrian	LF	112.000	112.000
0028	602.0410	Concrete Sidewalk 5-Inch	SF	1,822.000	1,822.000
0030	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	80.000	80.000
0032	602.0605	Curb Ramp Detectable Warning Field Radial Yellow	SF	56.000	56.000
0034	611.8115	Adjusting Inlet Covers	EACH	4.000	4.000
0036	619.1000	Mobilization	EACH	1.000	1.000
0038	624.0100	Water	MGAL	2.000	2.000
0040	625.0100	Topsoil	SY	25.000	25.000
0042	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0044	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000
0046	628.7015	Inlet Protection Type C	EACH	10.000	10.000
0048	629.0210	Fertilizer Type B	CWT	0.030	0.030
0050	631.0300	Sod Water	MGAL	0.600	0.600
0052	631.1000	Sod Lawn	SY	25.000	25.000
0054	642.5001	Field Office Type B	EACH	1.000	1.000
0056	643.0300	Traffic Control Drums	DAY	2,663.000	2,663.000
0058	643.0410	Traffic Control Barricades Type II	DAY	168.000	168.000
0060	643.0420	Traffic Control Barricades Type III	DAY	409.000	409.000
0062	643.0705	Traffic Control Warning Lights Type A	DAY	986.000	986.000
0064	643.0715	Traffic Control Warning Lights Type C	DAY	300.000	300.000
0066	643.0900	Traffic Control Signs	DAY	2,591.000	2,591.000
0068	643.0920	Traffic Control Covering Signs Type II	EACH	2.000	2.000
0070	643.1050	Traffic Control Signs PCMS	DAY	28.000	28.000
0072	643.5000	Traffic Control	EACH	1.000	1.000
0074	646.3040	Marking Line Grooved Wet Ref Epoxy 8-Inch	LF	1,553.000	1,553.000
0076	646.9110	Marking Removal Line Water Blasting 8-Inch	LF	424.000	424.000

5120-02-70

Line	Item	Item Description	Unit	Total	Qty
0078	646.9210	Marking Removal Line Water Blasting Wide	LF	114.000	114.000
0080	646.9310	Marking Removal Special Marking Water Blasting	EACH	8.000	8.000
0082	650.7000	Construction Staking Concrete Pavement	LF	720.000	720.000
0084	650.8500	Construction Staking Electrical Installations (project) 01. 5120-02-70	LS	1.000	1.000
0086	650.9000	Construction Staking Curb Ramps	EACH	8.000	8.000
0088	650.9910	Construction Staking Supplemental Control (project) 01. 5120-02-70	LS	1.000	1.000
0090	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	81.000	81.000
0092	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	70.000	70.000
0094	652.0700.S	Install Conduit into Existing Item	EACH	7.000	7.000
0096	653.0900	Adjusting Pull Boxes	EACH	4.000	4.000
0098	653.0905	Removing Pull Boxes	EACH	2.000	2.000
0100	654.0101	Concrete Bases Type 1	EACH	2.000	2.000
0102	654.0110	Concrete Bases Type 10	EACH	1.000	1.000
0104	654.0120	Concrete Bases Type 10-Special	EACH	3.000	3.000
0106	655.0230	Cable Traffic Signal 5-14 AWG	LF	485.000	485.000
0108	655.0240	Cable Traffic Signal 7-14 AWG	LF	180.000	180.000
0110	655.0260	Cable Traffic Signal 12-14 AWG	LF	962.000	962.000
0112	655.0270	Cable Traffic Signal 15-14 AWG	LF	325.000	325.000
0114	655.0320	Cable Type UF 2-10 AWG Grounded	LF	553.000	553.000
0116	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	1,004.000	1,004.000
0118	655.0610	Electrical Wire Lighting 12 AWG	LF	576.000	576.000
0120	657.0100	Pedestal Bases	EACH	2.000	2.000
0122	657.0425	Traffic Signal Standards Aluminum 15-FT	EACH	2.000	2.000
0124	658.0173	Traffic Signal Face 3S 12-Inch	EACH	7.000	7.000
0126	658.0175	Traffic Signal Face 5S 12-Inch	EACH	3.000	3.000
0128	658.0416	Pedestrian Signal Face 16-Inch	EACH	8.000	8.000
0130	658.5069	Signal Mounting Hardware (location) 01. West Ave & Jackson St	LS	1.000	1.000
0132	659.1125	Luminaires Utility LED C	EACH	4.000	4.000
0134	661.0200	Temporary Traffic Signals for Intersections (location) 01. West Ave & Jackson St	LS	1.000	1.000
0136	673.0105	Communication Vault Type 1	EACH	1.000	1.000
0138	678.0036	Install Fiber Optic Cable Outdoor Plant 36-CT	LF	100.000	100.000
0140	678.0300	Fiber Optic Splice	EACH	4.000	4.000
0142	678.0600	Install Ethernet Switches	EACH	3.000	3.000
0144	690.0150	Sawing Asphalt	LF	36.000	36.000
0146	690.0250	Sawing Concrete	LF	1,839.000	1,839.000
0148	715.0415	Incentive Strength Concrete Pavement	DOL	500.000	500.000
0150	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	700.000	700.000

5120-02-70

Line	Item	Item Description	Unit	Total	Qty
0152	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	600.000	600.000
0154	SPV.0060	Special 01. Install Poles Type 10	EACH	1.000	1.000
0156	SPV.0060	Special 02. Install Poles Type 10 Special	EACH	3.000	3.000
0158	SPV.0060	Special 03. Install Monotube Arms 30-FT	EACH	1.000	1.000
0160	SPV.0060	Special 04. Install Monotube Arms 35-FT Special	EACH	1.000	1.000
0162	SPV.0060	Special 05. Install Monotube Arms 40-FT Special	EACH	2.000	2.000
0164	SPV.0060	Special 06. Install Luminaire Arms Steel 15-FT	EACH	4.000	4.000
0166	SPV.0060	Special 08. Install Fiber Optic Splice Enclosure	EACH	1.000	1.000
0168	SPV.0060	Special 09. Marking Arrow Grooved Epoxy	EACH	4.000	4.000
0170	SPV.0060	Special 10. Marking Word Grooved Epoxy	EACH	2.000	2.000
0172	SPV.0090	Special 01. Marking Crosswalk Grooved Epoxy Transverse Line 12-Inch	LF	436.000	436.000
0174	SPV.0090	Special 02. Marking Stop Line Grooved Epoxy 12-Inch	LF	122.000	122.000
0176	SPV.0105	Special 01. Install Traffic Signal Controller & Cabinet (West Ave & Jackson St)	LS	1.000	1.000
0178	SPV.0105	Special 02. Remove, Salvage, & Reinstall Video Detection System (West Ave & Jackson St)	LS	1.000	1.000
0180	SPV.0105	Special 03. Remove, Salvage, & Reinstall EVP System (West Ave & Jackson St)	LS	1.000	1.000
0182	SPV.0105	Special 04. Install Accessible Pedestrian Push Button System (West Ave & Jackson St)	LS	1.000	1.000
0184	SPV.0105	Special 05. Remove, Salvage, & Reinstall Traffic Signal Interconnect	LS	1.000	1.000
0186	SPV.0105	Special 06. Install Fiber Optic Communications in Cabinet (West Ave & Jackson St)	LS	1.000	1.000
0188	SPV.0165	Special 01. Concrete Raised Median	SF	1,461.000	1,461.000

3

REMOVAL ITEMS

STATION	TO	STATION	204.0150 REMOVING CURB & GUTTER LF	204.0155 REMOVING CONCRETE SIDEWALK SY
202+15	-	210+42	1,642	453
PROJECT TOTALS			**1,642**	**453**

REMOVING TRAFFIC SIGNALS WEST AVE & JACKSON ST

LOCATION	204.9105.S.01 REMOVING TRAFFIC SIGNALS (WEST AVE & JACKSON ST) LS
WEST AVE & JACKSON ST	1
PROJECT TOTALS	**1**

REMOVAL QUANTITIES

LOCATION	ITEM NO.	204.0195 REMOVING CONCRETE BASES EACH	653.0905 REMOVING PULL BOXES EACH
WEST AVE & JACKSON ST	SB2	1	--
	SB3	1	--
	SB4	1	--
	SB5	1	--
	SB7	1	--
	SB8	1	--
	SB9	1	--
	SB10	1	--
	PB3	--	1
	PB6	--	1
PROJECT TOTALS		**8**	**2**

3

BASE AGGREGATE ITEMS

STATION	TO	STATION	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	624.0100 WATER MGAL
202+15	-	210+42	133	2.0
PROJECT TOTALS			**133**	**2.0**

QUANTITY INCLUDED FOR ADDING MATERIAL UNDERNEATH REMOVED PAVEMENT, CURB & GUTTER, SIDEWALK, OR ASPHALTIC SURFACE

CONCRETE PAVEMENT ITEMS

STATION	TO	STATION	211.0200 PREPARE FOUNDATION FOR CONCRETE PAVEMENT 5120-02-70 LS	415.0080 CONCRETE PAVEMENT 8-INCH SY	416.0610 DRILLED TIE BARS EACH	416.0620 DRILLED DOWEL BARS EACH
202+15	-	210+42	1	263	571	6
PROJECT TOTALS			**1**	**263**	**571**	**6**

ASPHALTIC SURFACE

STATION	TO	STATION	465.0105 ASPHALTIC SURFACE TON
202+15	-	210+42	3
PROJECT TOTALS			**3**

CONCRETE MISCELLANEOUS ITEMS

STATION	TO	STATION	601.0417 CONCRETE CURB & GUTTER 30-INCH TYPE K LF	601.0600 CONCRETE CURB PEDESTRIAN LF	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF	602.0605 CURB RAMP DETECTABLE WARNING FIELD RADIAL YELLOW SF	SPV.0165.01 CONCRETE RAISED MEDIAN SF
202+15	-	210+42	237	112	1,822	80	56	1,461
PROJECT TOTALS			**237**	**112**	**1,822**	**80**	**56**	**1,461**

ADJUSTING INLET COVERS

STATION	TO	STATION	611.8115 ADJUSTING INLET COVERS EACH
202+15	-	210+42	4
PROJECT TOTALS			**4**

EROSION CONTROL ITEMS

LOCATION	STATION	TO	STATION	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.7015 INLET PROTECTION TYPE C EACH
WEST AVE & JACKSON ST	202+15	-	210+42	4	1	8
UNDISTRIBUTED				--	--	2
PROJECT TOTALS				**4**	**1**	**10**

ALL ITEMS CATEGORY 0010 UNLESS NOTED

3

3

RESTORATION ITEMS

LOCATION	STATION	TO	STATION	625.0100 TOPSOIL SY	629.0210 FERTILIZER TYPE B CWT	631.0300 SOD WATER MGAL	631.1000 SOD LAWN SY
WEST AVE & JACKSON ST	202+15	-	210+42	22	0.02	0.5	22
UNDISTRIBUTED				3	0.01	0.1	3
PROJECT TOTALS				**25**	**0.03**	**0.6**	**25**

TRAFFIC CONTROL ITEMS

LOCATION	DURATION DAYS	643.0300 TRAFFIC CONTROL DRUMS QTY*	643.0300 DAY	643.0410 TRAFFIC CONTROL BARRICADES TYPE II QTY*	643.0410 DAY	643.0420 TRAFFIC CONTROL BARRICADES TYPE III QTY*	643.0420 DAY	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A QTY*	643.0705 DAY	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C QTY*	643.0715 DAY	643.0900 TRAFFIC CONTROL SIGNS QTY*	643.0900 DAY	# 643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	643.1050 TRAFFIC CONTROL SIGNS PCMS QTY*	643.1050 DAY
WEST AVE & JACKSON ST																
STAGE 1A	11	16	176	4	44	4	44	12	132	3	33	35	385	--	4	28
STAGE 1B	11	18	198	4	44	5	55	14	154	3	33	37	407	--	--	--
STAGE 2A	9	15	135	4	36	4	36	12	108	4	36	36	324	--	--	--
STAGE 2B	9	23	207	4	36	6	54	16	144	7	63	39	351	2	--	--
STAGE 3	20	91	1820	--	--	10	200	20	400	6	120	50	1000	--	--	--
SUBTOTALS			2,536		160		389		938		285		2,467	2		28
UNDISTRIBUTED			127		8		20		48		15		124	--		--
PROJECT TOTALS			**2,663**		**168**		**409**		**986**		**300**		**2,591**	**2**		**28**

* FOR INFORMATION ONLY
# TWO TOTAL SIGNS AND ONE CYCLE OF COVERING/UNCOVERING FOR EACH SIGN.

PERMANENT PAVEMENT MARKING

STATION	TO	STATION	646.3040 MARKING LINE GROOVED WET REF EPOXY 8-INCH LF	SPV.0060.09 MARKING ARROW GROOVED EPOXY EACH	SPV.0060.10 MARKING WORD GROOVED EPOXY EACH	646.9110 MARKING REMOVAL LINE WATER BLASTING 8-INCH LF	646.9210 MARKING REMOVAL LINE WATER BLASTING WIDE LF	646.9310 MARKING REMOVAL SPECIAL MARKING WATER BLASTING EACH	SPV.0090.01 MARKING CROSSWALK GROOVED EPOXY TRANSVERSE LINE 12-INCH LF	SPV.0090.02 MARKING STOP LINE GROOVED EPOXY 12-INCH LF
202+15	-	210+42	1,553	4	2	424	114	8	436	122
PROJECT TOTALS			**1,553**	**4**	**2**	**424**	**114**	**8**	**436**	**122**

ALL ITEMS CATEGORY 0010 UNLESS NOTED

3

CONCRETE BASES

LOCATION	SIGNAL BASE NO.	ALIGNMENT	STATION	OFFSET	654.0101 CONCRETE BASES TYPE 1 EACH	654.0110 CONCRETE BASES TYPE 10 EACH	654.0120 CONCRETE BASES TYPE 10 SPECIAL EACH
WEST AVE & JACKSON ST	SB2	WEST AVE	204+70.3	66.7' LT	--	--	1
	SB3	WEST AVE	204+90.0	43.8' LT	1	--	--
	SB4	WEST AVE	204+84.2	37.4' RT	--	--	1
	SB6	WEST AVE	204+06.4	46.0' RT	--	1	--
	SB7	WEST AVE	203+96.3	27.9' RT	1	--	--
	SB8	WEST AVE	203+94.2	55.6' LT	--	--	1
PROJECT TOTALS					**2**	**1**	**3**

3

CONSTRUCTION STAKING

STATION TO STATION	650.7000 CONCRETE PAVEMENT LF	650.8500 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS 5120-02-70 LS	650.9000 CURB RAMPS EACH	650.9910 SUPPLEMENTAL CONTROL 5120-02-70 LS
202+15 - 210+42	720	1	8	1
PROJECT TOTALS	**720**	**1**	**8**	**1**

ADJUSTING PULL BOXES

LOCATION	PULL BOX NO.	653.0900 ADJUSTING PULL BOXES EACH
WEST AVE & JACKSON ST	PB2	1
	PB4	1
	PB5	1
	PB7	1
PROJECT TOTALS		**4**

CONDUIT ITEMS

LOCATION	FROM	TO	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	652.0700.S INSTALL CONDUIT INTO EXISTING ITEM EACH	CONSTRUCTION METHOD
WEST AVE & JACKSON ST	CV1	PB1	10	--	1	TRENCH
	CV1	PB6	40	--	1	TRENCH
	PB2	SB2	--	17	1	TRENCH
	PB2	SB3	20	--	--	TRENCH
	PB4	SB4	--	9	1	TRENCH
	PB5	SB6	--	11	1	TRENCH
	PB5	SB7	11	--	--	TRENCH
	PB6	SB8	--	23	--	TRENCH
		EXPB3	--	5	1	TRENCH - CONNECT EXISTING
		EXPB6	--	5	1	TRENCH - CONNECT EXISTING
PROJECT TOTALS			**81**	**70**	**7**	

SIGNAL MOUNTING HARDWARE

LOCATION	658.5069.01 SIGNAL MOUNTING HARDWARE (WEST AVE & JACKSON ST) LS
WEST AVE & JACKSON ST	1
PROJECT TOTALS	**1**

ALL ITEMS CATEGORY 0010 UNLESS NOTED

3

TRAFFIC SIGNAL CABLE AND ELECTRICAL WIRE

LOCATION	FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG LF	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	655.0320 CABLE TYPE TYPE UF 2-10 AWG GROUNDED LF	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	(INCIDENTAL) LOOP DETECTOR LEAD IN CABLE LF
WEST AVE & JACKSON ST	CB1	SB1	--	--	39	--	--	39	--	--
	CB1	SB2	--	--	134	--	134	--	--	--
	CB1	SB3	--	--	--	138	--	--	--	--
	CB1	SB4	--	--	256	--	--	--	--	--
	CB1	SB5	--	--	262	--	--	--	--	--
	CB1	SB6	--	--	187	--	--	--	--	--
	CB1	SB7	--	--	--	187	--	--	--	--
	CB1	SB8	--	--	84	--	84	84	--	--
	SB1	SB2	--	--	--	--	--	135	--	--
	SB2	SB3	--	--	--	--	--	51	--	--
	SB3	SB4	--	--	--	--	--	173	--	--
	SB4	SB5	--	--	--	--	--	36	--	--
	SB5	SB6	--	--	--	--	--	129	--	--
	SB6	SB7	--	--	--	--	--	35	--	--
	SB7	SB8	--	--	--	--	--	165	--	--
	PB1	SB1	--	--	--	--	--	26	--	--
	PB2	SB2	--	--	--	--	--	29	--	--
	PB4	SB4	--	--	--	--	--	22	--	--
	PB5	SB7	--	--	--	--	--	24	--	--
	PB6	SB8	--	--	--	--	--	36	--	--
	SB2	SB4	--	--	--	--	169	--	--	--
	SB8	SB6	--	--	--	--	166	--	--	--

(CONTINUED ON NEXT PAGE)

ALL ITEMS CATEGORY 0010 UNLESS NOTED

TRAFFIC SIGNAL CABLE AND ELECTRICAL WIRE

LOCATION	FROM	TO	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG LF	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	655.0320 CABLE TYPE TYPE UF 2-10 AWG GROUNDED LF	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	(INCIDENTAL) LOOP DETECTOR LEAD IN CABLE LF
WEST AVE & JACKSON ST	SB1	HEAD 1	19	--	--	--	--	--	--	--
	SB1	HEAD 2	19	--	--	--	--	--	--	--
	SB1	HEAD 15	15	--	--	--	--	--	--	--
	SB1	PUSH BUTTON	--	--	--	--	--	--	--	6
	SB2	HEAD 3	60	--	--	--	--	--	--	--
	SB2	HEAD 16	15	--	--	--	--	--	--	--
	SB2	PUSH BUTTON	--	--	--	--	--	--	--	6
	SB2	LUMINAIRE	--	--	--	--	--	--	144	--
	SB3	HEAD 4	--	23	--	--	--	--	--	--
	SB3	HEAD 5	22	--	--	--	--	--	--	--
	SB3	HEAD 17	15	--	--	--	--	--	--	--
	SB3	PUSH BUTTON	--	--	--	--	--	--	--	6
	SB4	HEAD 6	65	--	--	--	--	--	--	--
	SB4	HEAD 7	--	67	--	--	--	--	--	--
	SB4	HEAD 18	15	--	--	--	--	--	--	--
	SB4	PUSH BUTTON	--	--	--	--	--	--	--	6
	SB4	LUMINAIRE	--	--	--	--	--	--	144	--
	SB5	HEAD 8	19	--	--	--	--	--	--	--
	SB5	HEAD 9	19	--	--	--	--	--	--	--
	SB5	HEAD 19	15	--	--	--	--	--	--	--
	SB5	PUSH BUTTON	--	--	--	--	--	--	--	6
	SB6	HEAD 10	55	--	--	--	--	--	--	--
	SB6	HEAD 20	15	--	--	--	--	--	--	--
	SB6	PUSH BUTTON	--	--	--	--	--	--	--	6
	SB6	LUMINAIRE	--	--	--	--	--	--	144	--
	SB7	HEAD 11	22	--	--	--	--	--	--	--
	SB7	HEAD 12	--	23	--	--	--	--	--	--
	SB7	HEAD 21	15	--	--	--	--	--	--	--
	SB7	PUSH BUTTON	--	--	--	--	--	--	--	6
	SB8	HEAD 13	65	--	--	--	--	--	--	--
	SB8	HEAD 14	--	67	--	--	--	--	--	--
	SB8	HEAD 22	15	--	--	--	--	--	--	--
	SB8	PUSH BUTTON	--	--	--	--	--	--	--	6
	SB8	LUMINAIRE	--	--	--	--	--	--	144	--
	CV1	CB1	--	--	--	--	--	20	--	--
PROJECT TOTALS			**485**	**180**	**962**	**325**	**553**	**1004**	**576**	**48**

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS

LOCATION	661.0200.01 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS (WEST AVE & JACKSON ST) LS
WEST AVE & JACKSON ST	1
PROJECT TOTALS	**1**

INSTALL TRAFFIC SIGNAL CONTROLLER & CABINET WEST AVE & JACKSON ST

LOCATION	SPV.0105.01 INSTALL TRAFFIC SIGNAL CONTROLLER & CABINET (WEST AVE & JACKSON ST) LS
WEST AVE & JACKSON ST	1
PROJECT TOTALS	**1**

REMOVE, SALVAGE, & REINSTALL VIDEO DETECTION SYSTEM WEST AVE & JACKSON ST

LOCATION	SPV.0105.02 REMOVE, SALVAGE, & REINSTALL VIDEO DETECTION SYSTEM (WEST AVE & JACKSON ST) LS
WEST AVE & JACKSON ST	1
PROJECT TOTALS	**1**

REMOVE, SALVAGE, AND REINSTALL EVP SYSTEM WEST AVE & JACKSON ST

LOCATION	SPV.0105.03 REMOVE, SALVAGE, & REINSTALL EVP SYSTEM (WEST AVE & JACKSON ST) LS
WEST AVE & JACKSON ST	1
PROJECT TOTALS	**1**

ALL ITEMS CATEGORY 0010 UNLESS NOTED

SIGNAL BASES, POLES, AND MAST ARMS

LOCATION	CATEGORY	SIGNAL BASE NO	657.0100 PEDESTAL BASE EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	SPV.0060.01 INSTALL POLES TYPE 10 EACH	SPV.0060.02 INSTALL POLES TYPE 10 SPECIAL EACH	SPV.0060.03 INSTALL MONOTUBE ARMS 30-FT EACH	SPV.0060.04 INSTALL MONOTUBE ARMS 35-FT SPECIAL EACH	SPV.0060.05 INSTALL MONOTUBE ARMS 40-FT SPECIAL EACH	SPV.0060.06 INSTALL LUMINAIRE ARMS STEEL 15-FT EACH	(INCIDENTAL) PEDESTRIAN PUSH BUTTONS EACH	659.1125 LUMINAIRES UTILITY LED C EACH
WEST AVE & JACKSON ST	0010	SB1	--	--	--	--	--	--	--	--	1	--
		SB2	--	--	--	1	--	1	--	1	1	1
		SB3	1	1	--	--	--	--	--	--	1	--
		SB4	--	--	--	1	--	--	1	1	1	1
		SB5	--	--	--	--	--	--	--	--	1	--
		SB7	1	1	--	--	--	--	--	--	1	--
		SB8	--	--	--	1	--	--	1	1	1	1
	SUBTOTAL		2	2	--	3	--	1	2	3	7	3
	0020	SB6	--	--	1	--	1	--	--	1	1	1
	SUBTOTAL		--	--	1	--	1	--	--	1	1	1
PROJECT TOTALS			**2**	**2**	**1**	**3**	**1**	**1**	**2**	**4**	**8**	**4**

SIGNAL FACES

LOCATION	SIG. BASE NO	SIG. HEAD NO	TYPE OF MOUNT	658.0173 TRAFFIC SIGNAL FACE 3S 12-INCH EACH	658.0175 TRAFFIC SIGNAL FACE 5S 12-INCH EACH	+ BACKPLATE 3-SEC EACH	+ BACKPLATE 5-SEC EACH	+ LED RED BALL EACH	+ LED YELLOW BALL EACH	+ LED GREEN BALL EACH	+ LED YELLOW ARROW EACH	+ LED GREEN ARROW EACH	658.0416 PEDESTRIAN SIGNAL FACE 16-INCH EACH	++ LED MODULES COUNTDOWN TIMER 16-INCH EACH
WEST AVE & JACKSON ST	SB1	15	PEDESTRIAN	--	--	--	--	--	--	--	--	--	1	1
	SB2	3	MONOTUBE ARM MOUNT VERTICAL	1	--	1	--	1	1	1	--	--	--	--
	SB2	16	PEDESTRIAN	--	--	--	--	--	--	--	--	--	1	1
	SB3	4	POST MOUNT VERTICAL	--	1	--	1	1	1	1	1	1	--	--
	SB3	5	POST MOUNT VERTICAL	1	--	1	--	1	1	1	--	--	--	--
	SB3	17	PEDESTRIAN	--	--	--	--	--	--	--	--	--	1	1
	SB4	6	MONOTUBE ARM MOUNT VERTICAL	1	--	1	--	--	--	--	--	--	--	--
	SB4	7	MONOTUBE ARM MOUNT VERTICAL	--	1	--	1	--	--	--	--	--	--	--
	SB4	18	PEDESTRIAN	--	--	--	--	--	--	--	--	--	1	1
	SB5	19	PEDESTRIAN	--	--	--	--	--	--	--	--	--	1	1
	SB6	10	MONOTUBE ARM MOUNT VERTICAL	1	--	1	--	--	--	--	--	--	--	--
	SB6	20	PEDESTRIAN	--	--	--	--	--	--	--	--	--	1	1
	SB7	11	POST MOUNT VERTICAL	1	--	1	--	--	--	--	--	--	--	--
	SB7	12	POST MOUNT VERTICAL	1	--	1	--	--	--	--	--	--	--	--
	SB7	21	PEDESTRIAN	--	--	--	--	--	--	--	--	--	1	1
	SB8	13	MONOTUBE ARM MOUNT VERTICAL	1	--	1	--	--	--	--	--	--	--	--
	SB8	14	MONOTUBE ARM MOUNT VERTICAL	--	1	--	1	--	--	--	--	--	--	--
	SB8	22	PEDESTRIAN	--	--	--	--	--	--	--	--	--	1	1
PROJECT TOTALS				**7**	**3**	**7**	**3**	**3**	**3**	**3**	**1**	**1**	**8**	**8**

+ INCIDENTAL TO 658.0173 OR 658.0175
++ INCIDENTAL TO SPV.0105.04

ALL ITEMS CATEGORY 0010 UNLESS NOTED

3

FIBER OPTIC SPLICING & CABLING

LOCATION	673.0105 COMMUNICATION VAULT TYPE 1 EACH	678.0036 INSTALL FIBER OPTIC CABLE OUTDOOR PLANT 36-CT LF	SPV.0060.08 INSTALL FIBER OPTIC SPLICE ENCLOSURE EACH	678.0300 FIBER OPTIC SPLICE EACH
CV1	1	100	1	4
PROJECT TOTALS	**1**	**100**	**1**	**4**

FIBER OPTIC COMMUNICATION EQUIPMENT

LOCATION	CATEGORY	678.0600 INSTALL ETHERNET SWITCHES EACH	SPV.0105.06 INSTALL FIBER OPTIC COMMUNICATIONS IN CABINET (WEST AVE & JACKSON ST) LS	+ FIBER OPTIC PATCH PANEL WITH CABLE PIGTAIL 8-CT EACH	LF	+ ST-ST SINGLE MODE FIBER JUMPER 4-FEET EACH	+ CAT-5E CABLE 5-FEET EACH	+ SFP OPTICS 1 GBPS LX EACH
CB1	0010	1	1	1	100	2	3	1
	SUBTOTAL	1	1	1	100	2	3	1
CB1 (WEST AVE & MAIN ST)	0020	1	--	--	--	--	--	2
LA CROSSE CITY HALL		1	--	--	--	--	--	1
	SUBTOTAL	2	--	--	--	--	--	3
PROJECT TOTALS		**3**	**1**	**1**	**100**	**2**	**3**	**4**

+ INCIDENTAL TO ITEM SPV.0105.06

SAWING PAVEMENT

STATION	TO	STATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
202+15	-	210+42	36	1,839
PROJECT TOTALS			**36**	**1,839**

INSTALL ACCESSIBLE PEDESTRIAN PUSH BUTTON SYSTEM WEST AVE & JACKSON ST

LOCATION	SPV.0105.04 INSTALL ACCESSIBLE PEDESTRIAN PUSH BUTTON SYSTEM (WEST AVE & JACKSON ST) LS
WEST AVE & JACKSON ST	1
PROJECT TOTALS	**1**

REMOVE, SALVAGE, AND REINSTALL TRAFFIC SIGNAL INTERCONNECT

LOCATION	SPV.0105.05 REMOVE, SALVAGE, & REINSTALL TRAFFIC SIGNAL INTERCONNECT LS
WEST AVE & JACKSON ST	1
PROJECT TOTALS	**1**

SUMMARY OF CITY FURNISHED MATERIALS

QUANTITY	UNIT	DESCRIPTION
1	EACH	POLES TYPE 10
3	EACH	POLES TYPE 10 SPECIAL
1	EACH	MONOTUBE ARMS 30-FT
1	EACH	MONOTUBE ARMS 35-FT SPECIAL
2	EACH	MONOTUBE ARMS 40-FT SPECIAL
4	EACH	LUMINAIRE ARMS STEEL 15-FT
1	EACH	TRAFFIC SIGNAL CABINET
1	EACH	TRAFFIC SIGNAL CONTROLLER
1	EACH	FIBER OPTIC PATCH PANEL WITH CABLE PIGTAIL 8-CT
1	EACH	FIBER OPTIC SPLICE ENCLOSURE
3	EACH	ETHERNET SWITCH
4	EACH	SFP OPTICS LX
1	LS	ACCESSIBLE PEDESTRIAL SIGNAL SYSTEM

ALL ITEMS CATEGORY 0010 UNLESS NOTED

CONVENTIONAL SYMBOLS

SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W LINE
PROPERTY LINE
LOT, TIE, AND OTHER MINOR LINES
SLOPE INTERCEPT
CORPORATE LIMITS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)
FEE ACQUISITION AREA (HATCHING VARIES BY OWNER)
TEMP. LIMITED EASEMENT AREA
EASEMENT AREA (HIGHWAY, PERMANENT LIMITED, OR RESTRICTED DEVELOPMENT)
TRANSMISSION STRUCTURES
BUILDING
BUILDING (TO BE REMOVED)
BRIDGE

PARCEL NUMBER
SECTION CORNER
NOTATION FOR COMBUSTABLE FLUIDS
NOTATION FOR HIGH VOLTAGE TRANSMISSION LINES
UTILITY NUMBER
R/W MONUMENT
NON-MONUMENTED R/W POINT
FOUND ¾" IRON ROD
FOUND 1" IRON PIPE
VALVE (GAS, WATER, ETC.)
SIGN
OFF-PREMISE SIGN

ACCESS CONTROLLED BY ACQUISITION
NO ACCESS (BY STATUTORY AUTHORITY)
ACCESS RESTRICTED (BY PREVIOUS PROJECT OR CONTROL)
NO ACCESS (NEW HIGHWAY)
NATIONAL GEODETIC SURVEY MONUMENT
SIXTEENTH CORNER MONUMENT
PARALLEL OFFSETS

CONVENTIONAL UTILITY SYMBOLS

WATER	W
GAS	G
TELEPHONE	T
OVERHEAD TRANSMISSION LINES	OH
ELECTRIC	E
CABLE TELEVISION	TV
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS
ELECTRIC TOWER	

	NON-COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		

CURVE DATA ABBREVIATIONS

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE	Δ /DELTA
LENGTH OF CURVE	L
TANGENT	T
DIRECTION AHEAD	DA
DIRECTION BACK	DB

CONVENTIONAL ABBREVIATIONS

ACCESS RIGHTS	AR	OUTLOT	OL
ACRES	AC	PAGE	P
AHEAD	AH	POINT OF TANGENCY	PT
ALUMINUM	ALUM	PROPERTY LINE	PL
AND OTHERS	ET AL	RECORDED AS	(100')
BACK	BK	REEL / IMAGE	R/I
BLOCK	BLK	REFERENCE LINE	R/L
CENTERLINE	C/L	PERMANENT LIMITED EASEMENT	PLE
CERTIFIED SURVEY MAP	CSM	POINT OF BEGINNING	POB
CONCRETE	CONC	POINT OF CURVATURE	PC
COUNTY	CO	POINT OF COMPOUND CURVE	PCC
COUNTY TRUNK HIGHWAY	CTH	POINT OF INTERSECTION	PI
DISTANCE	DIST	REMAINING	REM
CORNER	COR	RESTRICTIVE DEVELOPMENT EASEMENT	RDE
DOCUMENT NUMBER	DOC	RIGHT	RT
EASEMENT	EASE	RIGHT OF WAY	R/W
EXISTING	EX	SECTION	SEC
GAS VALVE	GV	SEPTIC VENT	SEPV
GRID NORTH	GN	SQUARE FEET	SF
HIGHWAY EASEMENT	HE	STATE TRUNK HIGHWAY	STH
IDENTIFICATION	ID	STATION	STA
LAND CONTRACT	LC	TELEPHONE PEDESTAL	TP
LEFT	LT	TEMPORARY LIMITED EASEMENT	TLE
MONUMENT	MON	TRANSPORTATION PROJECT PLAT	TPP
NATIONAL GEODETIC SURVEY	NGS	UNITED STATES HIGHWAY	USH
NUMBER	NO	VOLUME	V

BEGIN RELOCATION ORDER
STA 403+10.65
937.5 FEET SOUTH AND 81.5 FEET EAST OF THE CENTER 1/4 CORNER OF SECTION 32, T 16 N, R 7 W

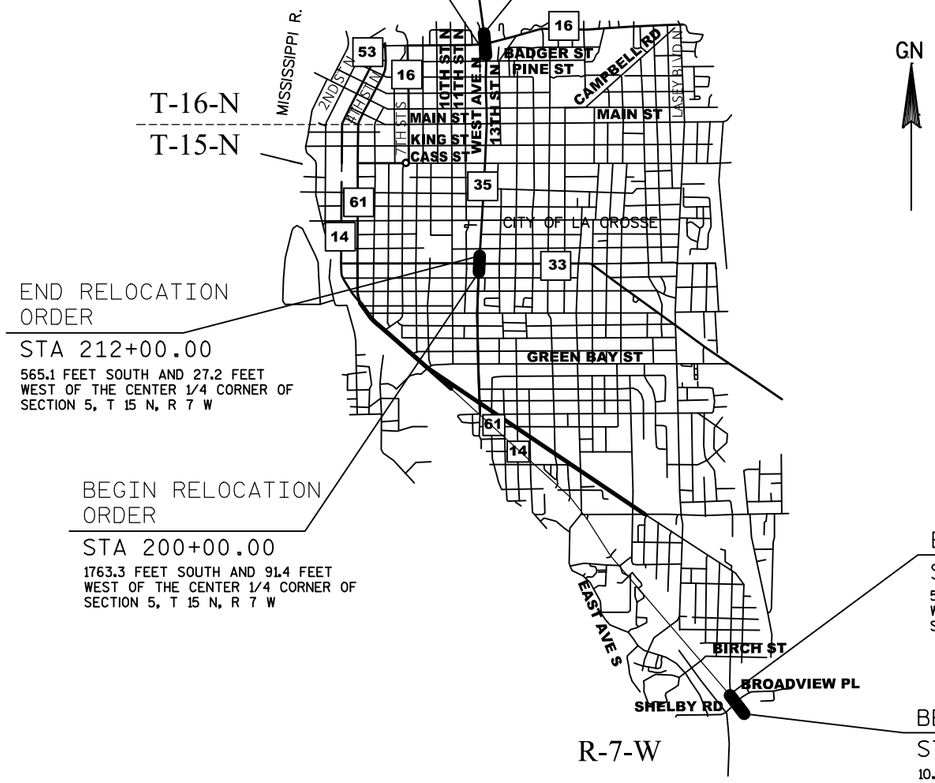
END RELOCATION ORDER
STA 412+00.00
55.4 FEET SOUTH AND 17.5 FEET WEST OF THE CENTER 1/4 CORNER OF SECTION 32, T 16 N, R 7 W

END RELOCATION ORDER
STA 212+00.00
565.1 FEET SOUTH AND 27.2 FEET WEST OF THE CENTER 1/4 CORNER OF SECTION 5, T 15 N, R 7 W

BEGIN RELOCATION ORDER
STA 200+00.00
1763.3 FEET SOUTH AND 91.4 FEET WEST OF THE CENTER 1/4 CORNER OF SECTION 5, T 15 N, R 7 W

END RELOCATION ORDER
STA 107+00.00
536.8 FEET NORTH AND 1365.6 FEET WEST OF THE SOUTHEAST CORNER OF SECTION 16, T 15 N, R 7 W

BEGIN RELOCATION ORDER
STA 100+00.00
10.9 FEET SOUTH AND 929.7 FEET WEST OF THE SOUTHEAST CORNER OF SECTION 16, T 15 N, R 7 W



GN

LAYOUT
1"=300'

TOTAL NET LENGTH OF REFERENCE LINE = 0.520 MI

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
1641-03-25	4.01	7
FEDERAL PROJECT NUMBER: N/A		

PLAT OF RIGHT OF WAY REQUIRED FOR

VARIOUS INTERSECTIONS

MORMON COULEE RD, JACKSON ST & LACROSSE ST

CONSTRUCTION PROJECT NUMBER	
1641-03-75/5120-02-70/7575-07-70	LACROSSE COUNTY

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), LACROSSE COUNTY, NAD83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 1" X 24" IRON PIPES), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE CITY OF LACROSSE.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLEs) ON THE PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

THIS PLAT IS A GRAPHIC REPRESENTATION AND IS FOR REFERENCE PURPOSES ONLY. DEEDS MUST BE CHECKED TO DETERMINE PROPERTY BOUNDARIES AND ACCESS RIGHTS.

ORIGINAL PLAT PREPARED BY

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www.rasmithnational.com

WISCONSIN
MICHAEL J. RATZBURG
S-2236
WAUKESHA
WI
LAND SURVEYOR

DATE: 08/10/20

LAND SURVEYOR

REVISION DATE: 10/7/2020 (2)

CITY OF LACROSSE

APPROVED FOR THE CITY OF LACROSSE

DATE: 10/15/2020

(Signatur

FILE NAME:S/5168021/DWG/52200404/PLAT/SPP title.DWG

1641-03-25 - 4.01

SCHEDULE OF LANDS & INTERESTS REQUIRED

AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.

OWNERS NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND AND INTERESTS TO THE CITY OF LACROSSE.

PARCEL NUMBER	SHEET NUMBER	OWNER(S)	INTEREST REQUIRED	TOTAL ACRES	R/W REQUIRED ACRES			TOTAL REMAINING ACRES	T.L.E. ACRES	P.L.E. ACRES	PARCEL NUMBER
					NEW	EXISTING	TOTAL				
1	4.05	CRYSTAL M. & CHAD KUHNKE	FEE, TLE	0.46	0.001	-	0.001	0.46	0.003	-	1
2	4.05	RIVER BANK	FEE, TLE	1.00	0.001	-	0.001	1.00	0.003	-	2
3	4.06	WILLIAM J. BERGE	TLE	0.32	-	-	-	0.32	0.008	-	3
4	4.06	GREAT NORTHERN INVESTMENT OF LACROSSE, INC.	FEE, TLE	1.41	0.004	-	0.004	1.41	0.009	-	4
5	4.06	J & K HOSPITALITY, LLC	TLE	0.37	-	-	-	0.37	0.008	-	5
6	4.07	KT REAL ESTATE HOLDINGS, LLC.	TLE	0.08	-	-	-	0.08	0.005	-	6
7	4.07	ROTTINGHAUS REAL ESTATE, LLC.	FEE, TLE	0.26	0.004	-	0.004	0.26	0.007	-	7
8	4.07	MARY LOU PETERSON	FEE, TLE	0.34	0.005	-	0.005	0.34	0.007	-	8
101	4.05	XCEL ELECTRIC	RELEASE OF RIGHTS								
102	4.06 & 4.07	XCEL GAS	RELEASE OF RIGHTS								

REVISION DATE:	DATE: 08-10-2020	SCALE, FEET 0 N/A N/A	HWY: VARIOUS INTERSECTIONS	STATE R/W PROJECT NUMBER: 1641-03-25	PLAT SHEET: 4.02	
	GRID FACTOR: N/A		COUNTY: LACROSSE	CONSTRUCTION PROJECT NUMBER: 1641-03-75/5120-02-70/7575-07-70	PS&E SHEET:	E

FILE NAME:S/5168021/DWG/52200404/PLAT/SPP title.DWG

GN

4

4

T-15-N
R-7-W

16 16
16 16

16 15
16 15

NW-SE

NE-SE

END RELOCATION
ORDER
STA 107+00.00
Y = 116360.23
X = 454920.62

SW-SE

MORMON COULEE ROAD

SE-SE

BROADVIEW PLACE

CTY Z

USH 14

SHELBY RD

16 16
21 21

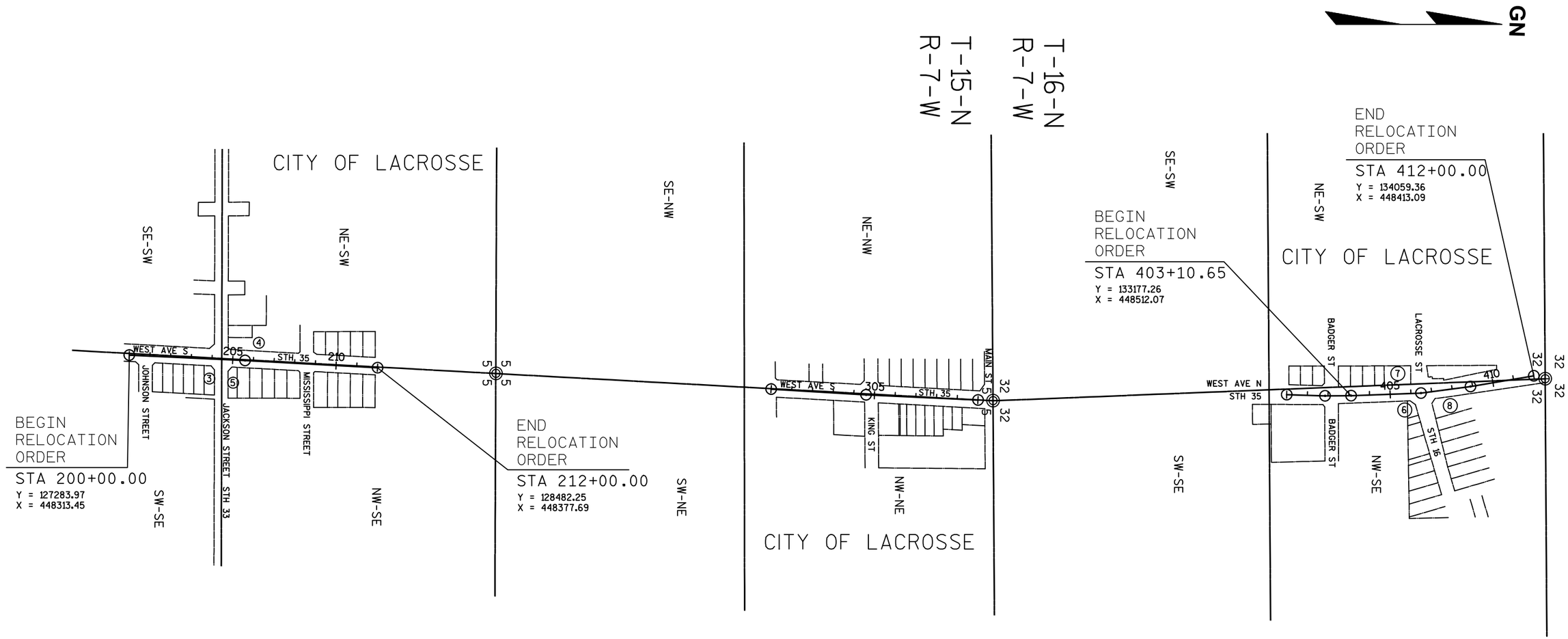
CITY OF LACROSSE

16 15
21 22

BEGIN RELOCATION
ORDER
STA 100+00.00
Y = 115812.50
X = 455356.49

REVISION DATE:	DATE: 08-10-2020	SCALE, FEET 0 N/A N/A	HWY: VARIOUS INTERSECTIONS	STATE R/W PROJECT NUMBER: 1641-03-25	PLAT SHEET: 4.03	
	GRID FACTOR: N/A		COUNTY: LACROSSE	CONSTRUCTION PROJECT NUMBER: 1641-03-75	PS&E SHEET:	E

FILE NAME:S/5168021/DWG/52200404/PLAT/SPP title.DWG



REVISION DATE:	DATE: 08-10-2020	SCALE, FEET 0 N/A N/A	HWY: VARIOUS INTERSECTIONS	STATE R/W PROJECT NUMBER: 1641-03-25	PLAT SHEET: 4.04	
	GRID FACTOR: N/A		COUNTY: LACROSSE	CONSTRUCTION PROJECT NUMBER: 5120-02-70/7575-07-70	PS&E SHEET: 50	E

FILE NAME:S/5168021/DWG/52200404/PLAT/SPP title.DWG

NOTES:

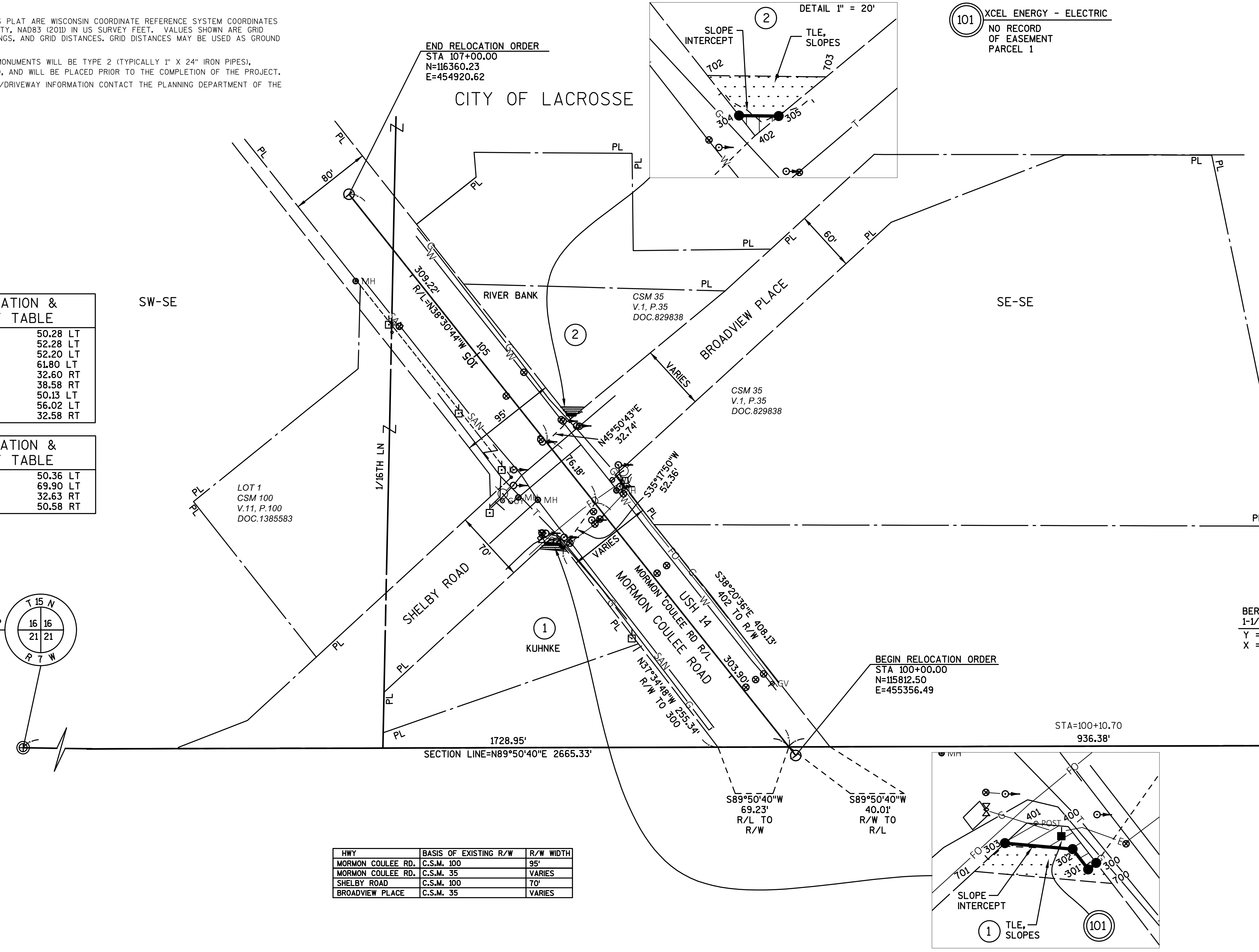
POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), LACROSSE COUNTY, NAD83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY 1" X 24" IRON PIPES), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE CITY OF LACROSSE.

R/W STATION & OFFSET TABLE		
300	103+00.00	50.28 LT
301	103+00.00	52.28 LT
302	103+05.00	52.20 LT
303	103+14.12	61.80 LT
304	103+99.00	32.60 RT
305	103+94.11	38.58 RT
400	103+08.97	50.13 LT
401	103+14.54	56.02 LT
402	103+94.00	32.58 RT

TLE STATION & OFFSET TABLE		
700	102+94.97	50.36 LT
701	103+13.53	69.90 LT
702	104+09.00	32.63 RT
703	103+94.35	50.58 RT



LINE	BEARING	DISTANCE
300-301	S51°29'16"W	2.00
301-302	N37°34'48"W	5.00
302-303	N84°59'41"W	13.24
303-401	N47°19'52"E	5.80
401-400	S85°07'28"E	8.10
400-300	S37°34'48"E	8.97
300-700	S37°34'48"E	5.03
700-701	N84°59'41"W	26.95
701-303	N47°19'52"E	8.12
402-304	N38°20'36"W	5.00
304-305	S89°18'18"E	7.73
305-402	S50°22'34"W	6.00
304-702	N38°20'36"W	10.00
702-703	S89°18'18"E	23.18
703-305	S50°22'34"W	12.00

COURSE TABLE

HWY	BASIS OF EXISTING R/W	R/W WIDTH
MORMON COULEE RD.	C.S.M. 100	95'
MORMON COULEE RD.	C.S.M. 35	VARIES
SHELBY ROAD	C.S.M. 100	70'
BROADVIEW PLACE	C.S.M. 35	VARIES

REVISION DATE: 10/7/2020 (NC)	DATE: 08-10-2020	SCALE, FEET 0 50 100	HWY: VARIOUS INTERSECTIONS	STATE R/W PROJECT NUMBER: 1641-03-25
	GRID FACTOR: N/A		COUNTY: LACROSSE	CONSTRUCTION PROJECT NUMBER: 1641-03-75

PLAT SHEET: 4.05

PS&E SHEET: E

FILE NAME:S/5168021/DWG/52200404/PLAT/SPP title.DWG

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), LACROSSE COUNTY, NAD83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

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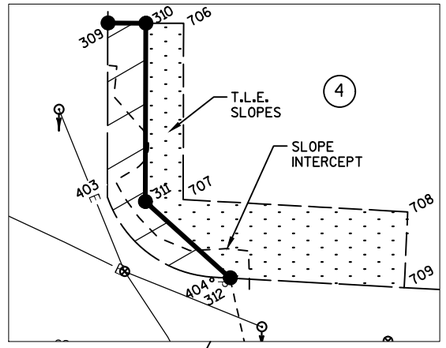
FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE CITY OF LACROSSE.

DETAIL 1" = 20'



R/W STATION & OFFSET TABLE		
309	204+67.74	82.81 LT
310	204+72.74	83.03 LT
311	204+73.79	59.52 LT
312	204+85.44	49.97 LT
313	205+08.74	34.12 RT
317	204+07.61	51.45 RT
318	203+90.79	33.34 RT
403	204+68.77	59.83 LT
404	204+83.00	49.99 LT
405	204+90.74	34.07 RT
406	204+73.87	55.44 RT

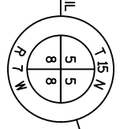
TLE STATION & OFFSET TABLE		
706	204+77.73	83.25 LT
707	204+78.77	60.02 LT
708	205+08.04	59.88 LT
709	205+08.12	49.88 LT
710	205+08.80	43.12 RT
711	204+90.01	43.07 RT
712	204+78.95	57.08 RT
713	204+79.54	70.20 RT
714	204+74.55	70.43 RT
715	204+08.33	66.91 RT
716	203+77.25	33.29 RT

102 XCEL ENERGY - GAS
NO RECORD OF EASEMENT
PARCEL 5

PI	Y	X
201+15.18	127399.59	448320.05
203+86.05	127669.45	448334.53
204+96.76	127780.04	448339.78

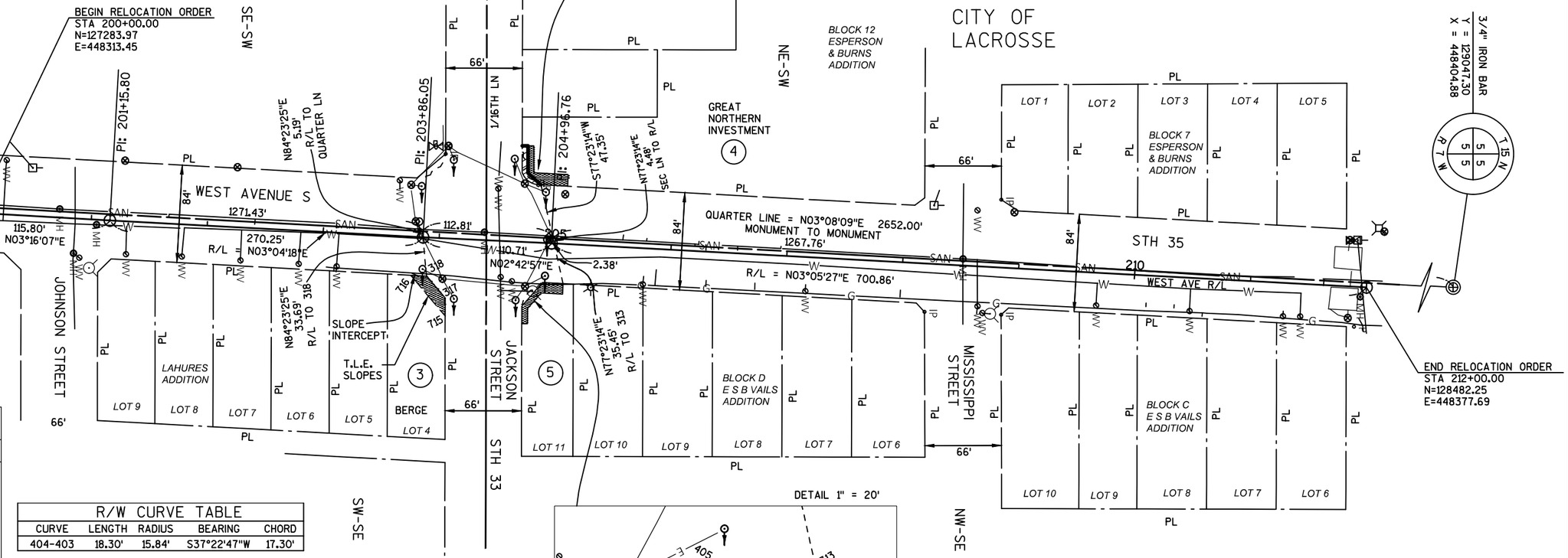
5" BERNTSEN NAIL
Y = 126399.27
X = 448259.81

BEGIN RELOCATION ORDER
STA 200+00.00
N=127283.97
E=448313.45



3/4" IRON BAR
Y = 129047.30
X = 448404.88

END RELOCATION ORDER
STA 212+00.00
N=128482.25
E=448377.69

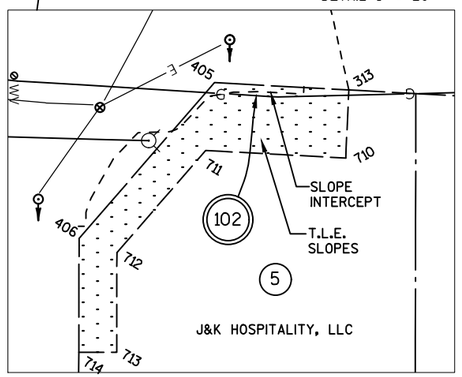


COURSE TABLE		
LINE	BEARING	DISTANCE
312-404	S03°08'09"W	2.44
404-403	SEE CURVE DATA	
403-309	N89°50'51"W	23.00
309-310	N0°09'09"E	5.00
310-311	S89°50'51"E	23.54
311-312	N42°02'36"E	15.06
310-706	N00°09'09"E	5.00
706-707	S89°50'51"E	23.26
707-708	N03°08'09"E	29.66
708-709	S87°19'59"E	10.00
709-312	S03°08'09"W	23.00
313-710	S87°19'59"E	9.00
710-711	S03°08'09"W	18.51
711-712	S49°00'22"E	17.85

R/W CURVE TABLE				
CURVE	LENGTH	RADIUS	BEARING	CHORD
404-403	18.30'	15.84'	S37°22'47"W	17.30'

712-713	S89°51'41"E	13.14
713-714	S00°08'19"W	5.00
714-406	N89°51'41"W	15.00
406-405	N49°00'22"W	27.23
405-313	N03°08'09"E	17.77
318-317	N49°49'01"E	24.72
317-715	S89°55'55"E	15.48
715-716	S49°49'01"W	45.96
716-318	N03°08'09"E	13.74

DETAIL 1" = 20'



HWY	BASIS OF EXISTING R/W	R/W WIDTH
WEST AVENUE	ESPERSON & BURNS ADDITION	84'
WEST AVENUE	ESB VAILS ADDITION	84'
WEST AVENUE	LAHURES ADDTION	84'
JACKSON STREET	ESPERSON & BURNS ADDITION	66'
JACKSON STREET	ESB VAILS ADDITION	66'
JACKSON STREET	LAHURES ADDTION	66'

GN

REVISION DATE: 10/7/2020 (NC)	DATE: 08-10-2020	SCALE, FEET 0 50 100	HWY: VARIOUS INTERSECTIONS	STATE R/W PROJECT NUMBER: 1641-03-25	PLAT SHEET: 4.06
	GRID FACTOR: N/A		COUNTY: LACROSSE	CONSTRUCTION PROJECT NUMBER: 5120-02-70	PS&E SHEET: E

FILE NAME:S/5168021/DWG/52200404/PLAT/SPP title.DWG

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), LACROSSE COUNTY, NAD83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

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FOR THE LATEST ACCESS/DRIVEWAY INFORMATION CONTACT THE PLANNING DEPARTMENT OF THE CITY OF LACROSSE.

HWY	BASIS OF EXISTING R/W	R/W WIDTH
WEST AVENUE	METZGERS & FUNKS ADDITION	VARIES
WEST AVENUE	BURNS DURAND SMITH & RUBLEES ADD.	VARIES
WEST AVENUE	DC EVANS ADDITION	VARIES
LACROSSE STREET	BURNS DURAND SMITH & RUBLEES ADD.	VARIES
LACROSSE STREET	DC EVANS ADDITION	VARIES

(102) XCEL ENERGY - GAS
NO RECORD
OF EASEMENT
PARCEL 8

COURSE TABLE

LINE	BEARING	DISTANCE
409-332	S02°16'23"E	13.89
332-333	S87°54'49"W	2.50
333-350	N58°20'31"W	10.50
350-351	N02°16'23"W	4.49
351-352	N68°50'41"W	5.19
352-334	N85°24'33"W	6.11
334-414	S89°43'23"W	5.50
414-335	N00°16'37"W	1.50
335-409	N89°43'23"E	27.50
332-733	S02°16'23"E	12.00
733-734	S87°54'49"W	15.00
734-735	N02°16'23"W	14.34
735-736	N58°20'31"W	10.42
736-737	S89°43'23"W	4.07
737-414	N00°16'37"W	5.00
411-336	N06°10'29"W	12.70
336-337	N82°25'57"E	3.49
337-338	S07°30'34"E	10.87
338-339	S57°33'44"E	13.82
339-340	N74°49'43"E	12.83
340-341	S14°17'29"E	11.50
341-410	S75°42'31"W	7.00
410-411	N58°14'09"W	27.77
336-738	N06°10'29"W	5.00
738-739	N82°25'57"E	8.37
739-740	S07°30'34"E	13.54
740-741	S57°33'44"E	9.28
741-742	N74°49'43"E	15.70
742-743	S14°17'29"E	16.58
743-341	S75°42'31"W	5.00
345-346	N34°57'38"E	31.03
346-754	N73°45'19"E	15.00
754-744	S16°14'41"E	5.00
744-745	S73°45'19"W	13.24
745-746	S34°57'38"W	35.75
746-345	N02°41'11"W	8.19

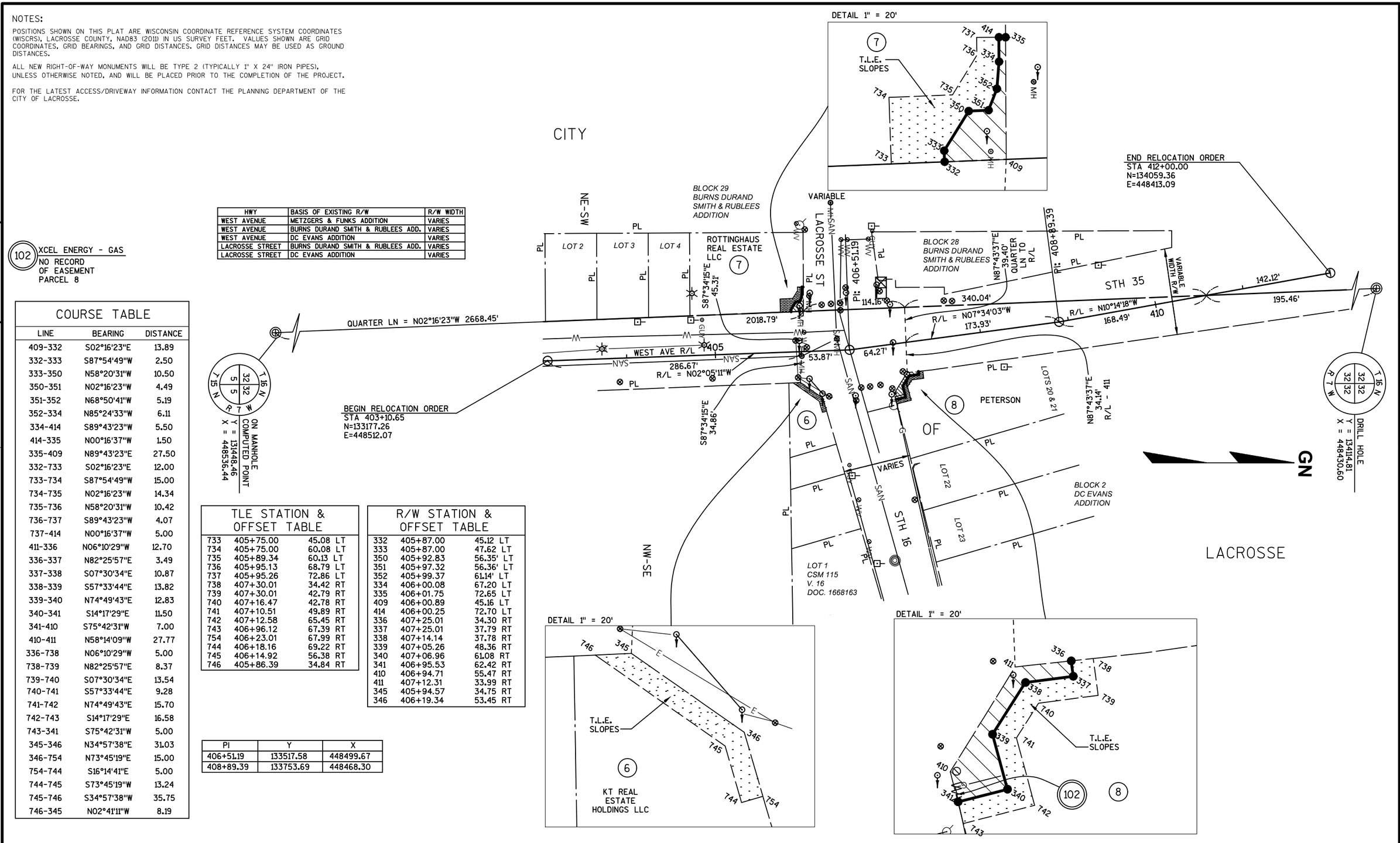
TLE STATION & OFFSET TABLE

733	405+75.00	45.08 LT
734	405+75.00	60.08 LT
735	405+89.34	60.13 LT
736	405+95.13	68.79 LT
737	405+95.26	72.86 LT
738	407+30.01	34.42 RT
739	407+30.01	42.79 RT
740	407+16.47	42.78 RT
741	407+10.51	49.89 RT
742	407+12.58	65.45 RT
743	406+96.12	67.39 RT
754	406+23.01	67.99 RT
744	406+18.16	69.22 RT
745	406+14.92	56.38 RT
746	405+86.39	34.84 RT

R/W STATION & OFFSET TABLE

332	405+87.00	45.12 LT
333	405+87.00	47.62 LT
350	405+92.83	56.35' LT
351	405+97.32	56.36' LT
352	405+99.37	61.14' LT
334	406+00.08	67.20 LT
335	406+01.75	72.65 LT
409	406+00.89	45.16 LT
414	406+00.25	72.70 LT
336	407+25.01	34.30 RT
337	407+25.01	37.79 RT
338	407+14.14	37.78 RT
339	407+05.26	48.36 RT
340	407+06.96	61.08 RT
341	406+95.53	62.42 RT
410	406+94.71	55.47 RT
411	407+12.31	33.99 RT
345	405+94.57	34.75 RT
346	406+19.34	53.45 RT

PI	Y	X
406+51.19	133517.58	448499.67
408+89.39	133753.69	448468.30



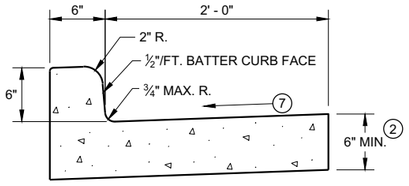
REVISION DATE: 10/7/2020 (2)	DATE: 08-10-2020	SCALE, FEET 0 50 100	HWY: VARIOUS INTERSECTIONS	STATE R/W PROJECT NUMBER: 1641-03-25	PLAT SHEET: 4.07
	GRID FACTOR: N/A		COUNTY: LACROSSE	CONSTRUCTION PROJECT NUMBER: 7575-07-70	PS&E SHEET: E

FILE NAME:S/5168021/DWG/52200404/PLAT/SPP title.DWG

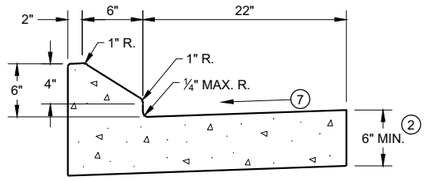
Standard Detail Drawing List

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 PLATES
08E10-02	INLET PROTECTION TYPE A, B, C AND D
09B02-10	CONDUIT
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C11-10	CONCRETE BASE TYPE 10
09C15-01	CONCRETE BASE TYPE 10 SPECIAL
09D02-03	SIGNAL CONTROL CABINET
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 FT.
09E07-06	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
09E08-09E	TYPE 10 POLE 15'-30' MONOTUBE ARM
09E08-09F	TYPE 10 SPECIAL POLE 35' MONOTUBE ARM
09E08-09G	TYPE 10 SPECIAL POLE 40' MONOTUBE ARM
09E08-09K	GENERAL NOTES,HARDWARE DETAILS FOR TYPE 9/10,9/10 SPECIAL,12 & 13 POLES W/MONOTUBE ARMS
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
11B02-02	CONCRETE MEDIAN NOSE
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C13-09	URBAN DOWELED CONCRETE PAVEMENT
13C18-07A	CONCRETE PAVEMENT JOINTING
13C18-07C	CONCRETE PAVEMENT JOINT TYPES
13C18-07D	CONCRETE PAVEMENT JOINT TYPES AT UTILITY FIXTURES
15C02-08F	ADVANCED WIDTH RESTRICTION SIGNING
15C03-05	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C08-20C	PAVEMENT MARKING (TURN LANES)
15C11-08B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
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
15D30-06A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D30-06B	TRAFFIC CONTROL, TEMPORARY ADA COMPLIANT PEDESTRIAN ACCOMMODATION
15D30-06C	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

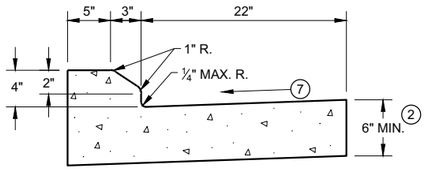
6



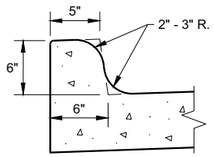
TYPES A (1) & D



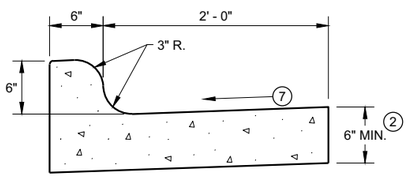
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

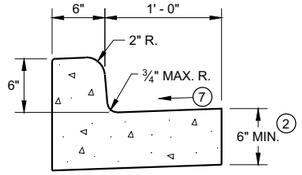


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



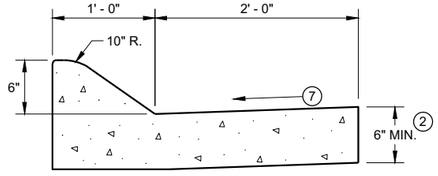
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

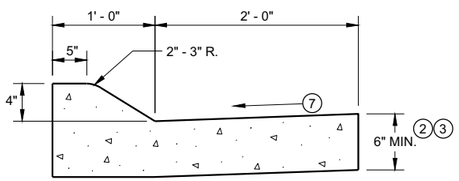


TYPES A (1) & D

CONCRETE CURB AND GUTTER 18"

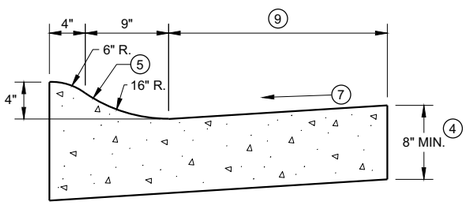


6" SLOPED CURB TYPES A (1) & D



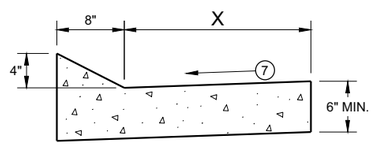
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T

TBT & TBTT	X
30"	22"
36"	28"

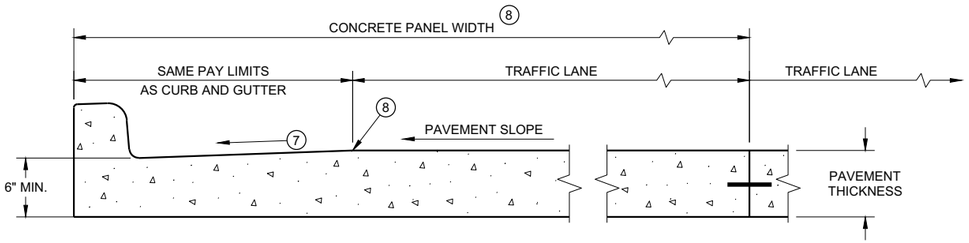


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

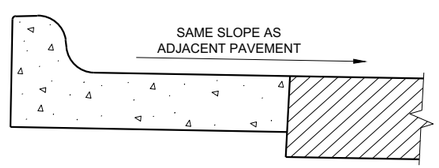
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT * WITH INTEGRAL CURB AND GUTTER

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

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

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(5) UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

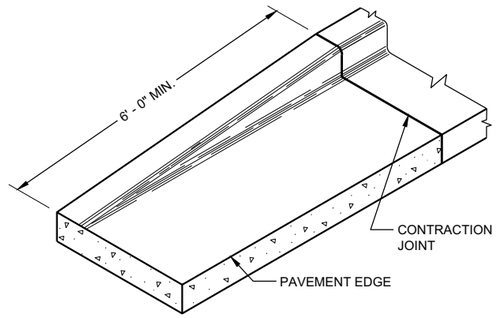
(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

(9) CONCRETE CURB AND GUTTER 4-INCH SLOPED 30-INCH TYPE "R" AND "T" = 17 INCHES
CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE "R" AND "T" = 23 INCHES

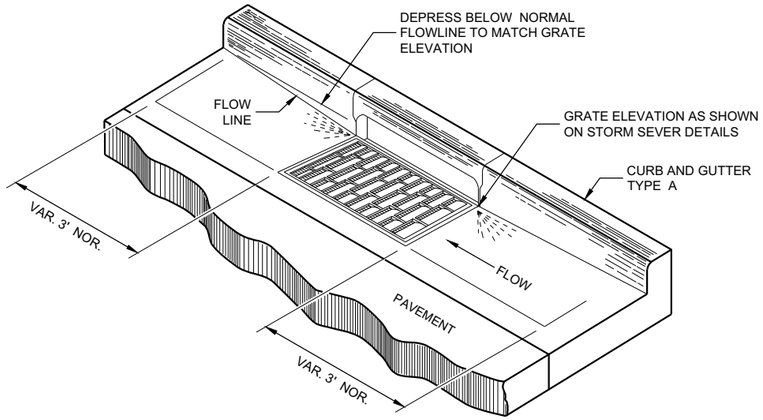
CONCRETE CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6
SDD 08D01 - 22a



END SECTIONCURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS

(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

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

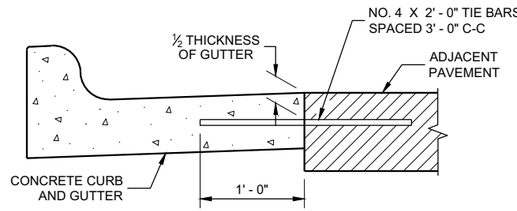
PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

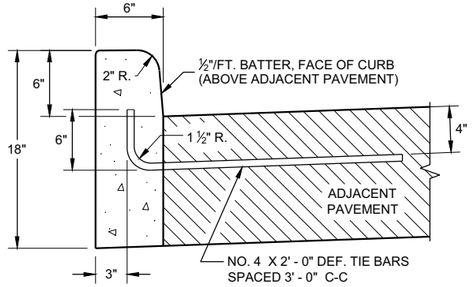
(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

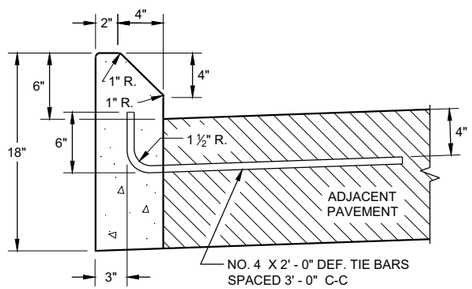
(9) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.



TYPICAL TIE BAR LOCATION (1)

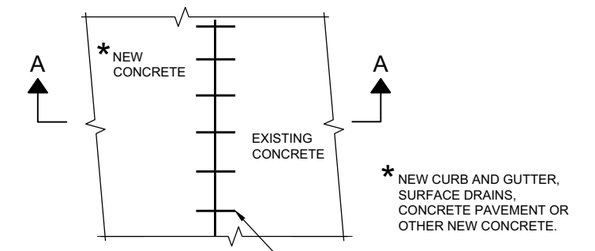


TYPES A (1) & D

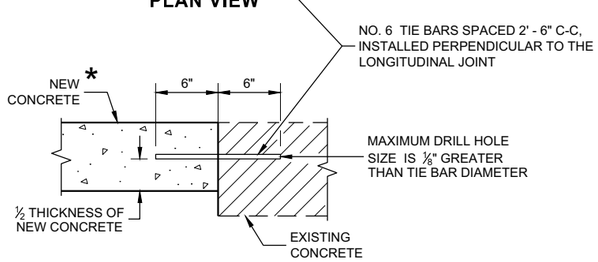


TYPES G (1) & J

CONCRETE CURB

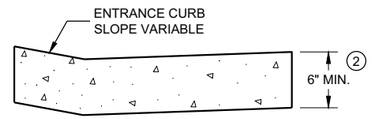


PLAN VIEW



SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



DRIVEWAY ENTRANCE CURB (9)

(WHEN DIRECTED BY THE ENGINEER)

CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVE ENGINEER

FHWA

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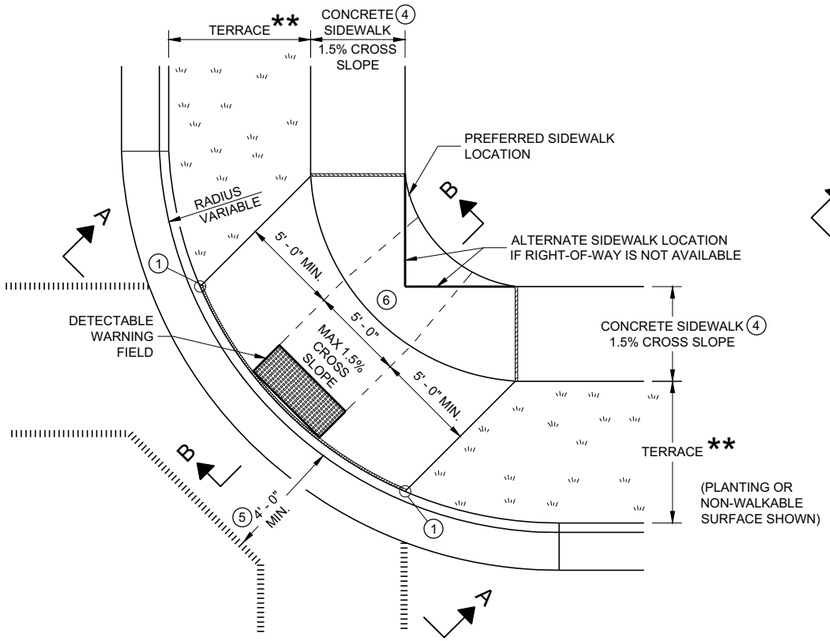
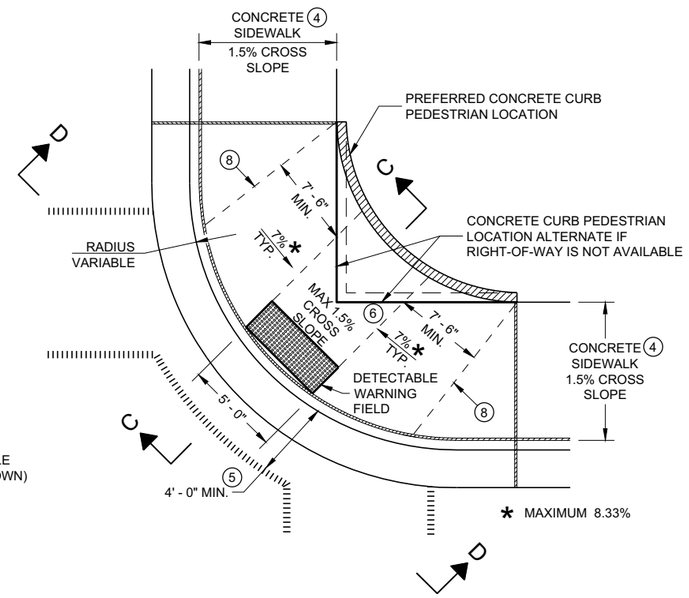
SDD08D01 - 22b



PLAN VIEW

CURB RAMP TYPE 1

(CENTER OF CORNER RADIUS)



PLAN VIEW

CURB RAMP TYPE 1 - A

(NO TERRACE)

GENERAL NOTES

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.

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 WARNING FIELD.

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 TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD"

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

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

(1) 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 DISTANCE IS SHORT.

(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 ¼ - 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.

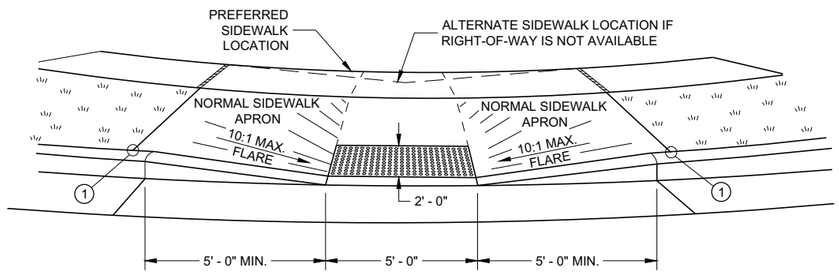
(3) MAXIMUM 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

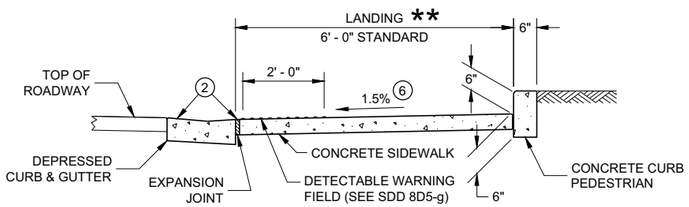
(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

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

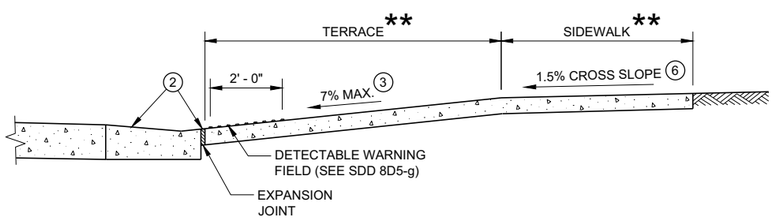


VIEW A - A FOR TYPE 1

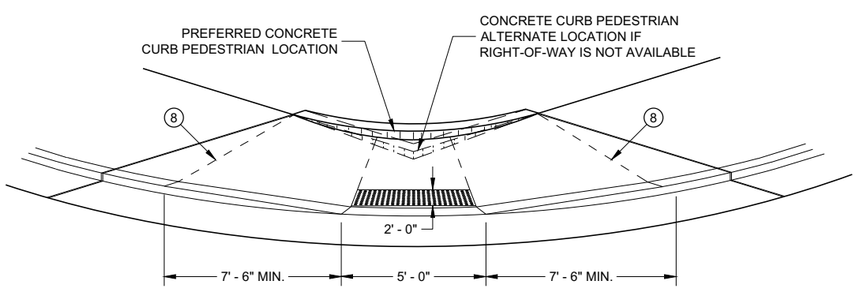


SECTION C - C FOR TYPE 1 - A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B - B FOR TYPE 1



VIEW D - D FOR TYPE 1 - A

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPE 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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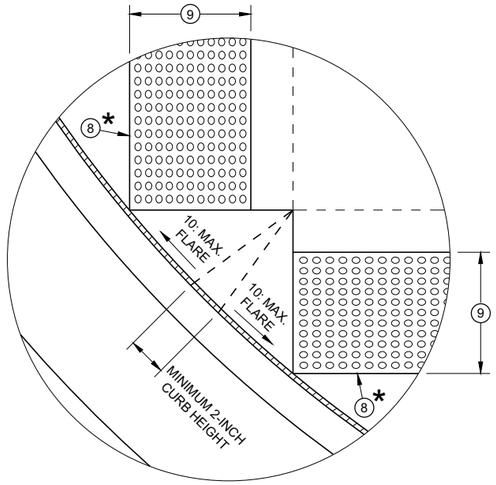
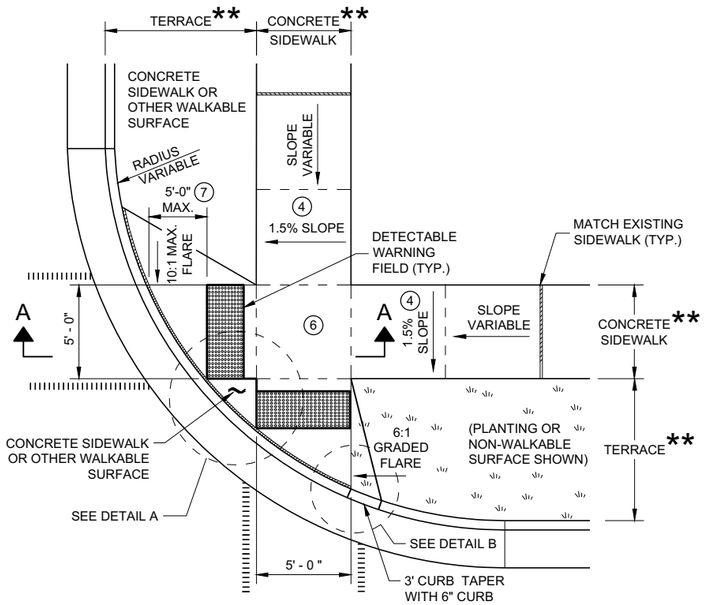
SDD 08D05 - 20a



DETAIL A



PLAN VIEW
CURB RAMP TYPE 2
(CENTER OF CORNER RADIUS)

GENERAL NOTES

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 ¼ - 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) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE (2.67% OR LESS) AND NOT TO EXCEED 11% GRADE CHANGE.

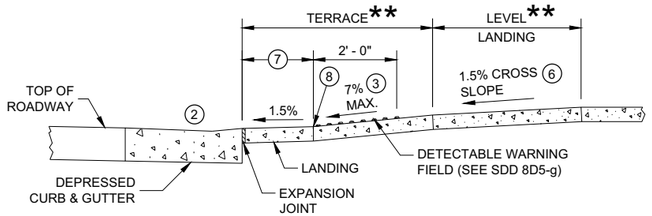
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET X 5 FEET.

(7) WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

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

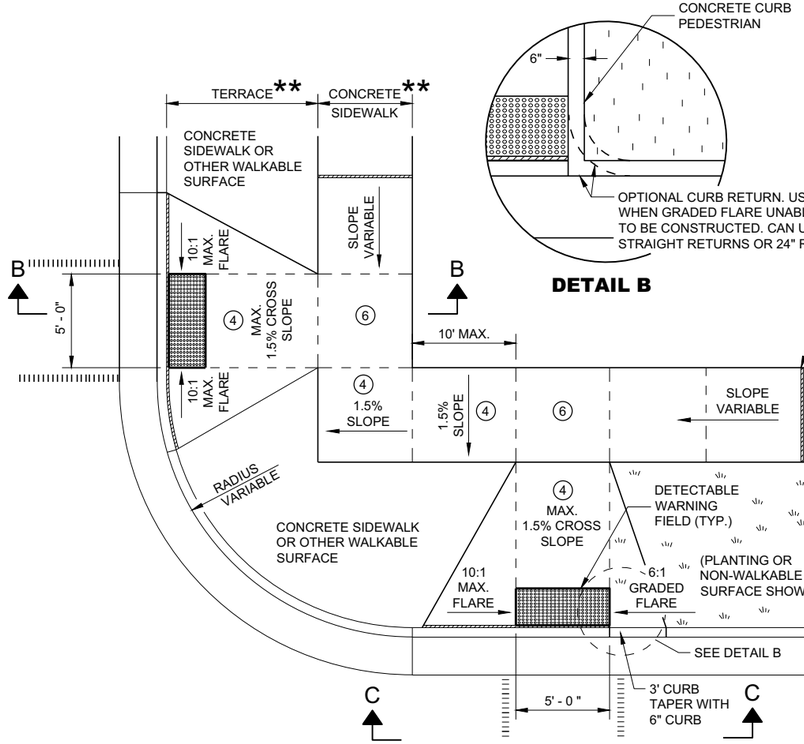
(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.



SECTION A - A FOR TYPE 2

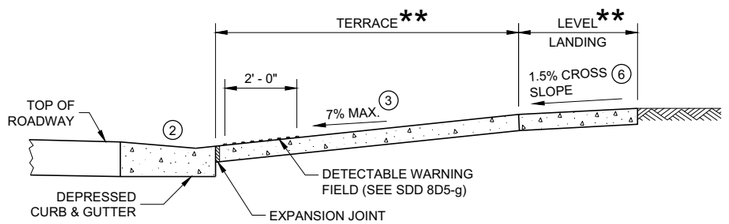
* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

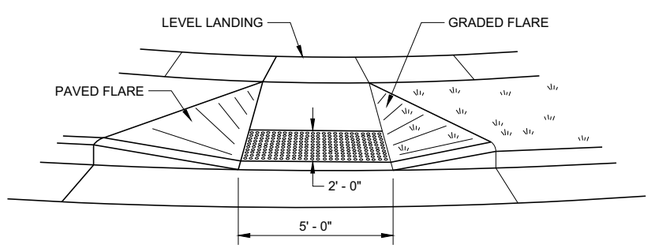


DETAIL B

PLAN VIEW
CURB RAMP TYPE 3
(OUTSIDE OF CROSSWALK AREA)



SECTION B - B FOR TYPE 3



VIEW C - C FOR TYPE 3

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPE 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20b

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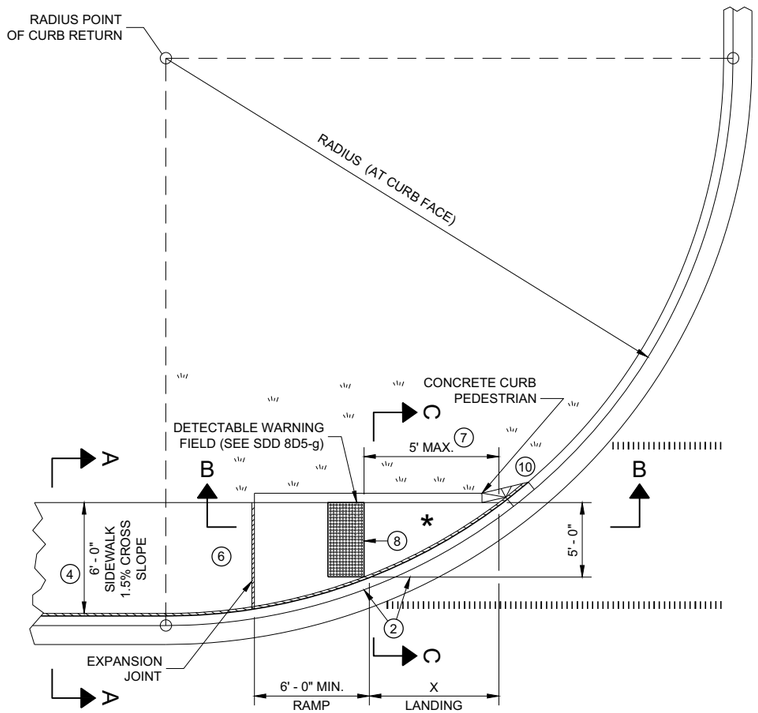
SDD 08D05 - 20b

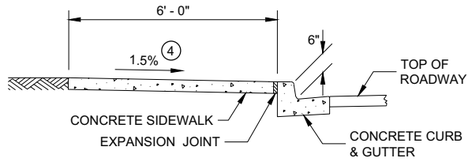


PLAN VIEW

CURB RAMP TYPE 4A

RADIUS (AT CURB FACE)	X
10 FEET	4' - 7"
15 FEET	6' - 5½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A - A FOR TYPE 4A

GENERAL NOTES

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 ¼ - 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) 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 PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

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

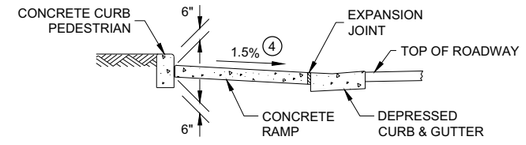
(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

LEGEND

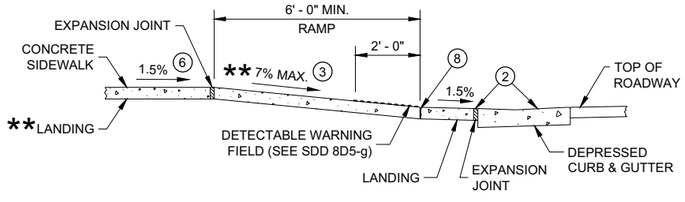
½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

PAVEMENT MARKING CROSSWALK (WHITE)



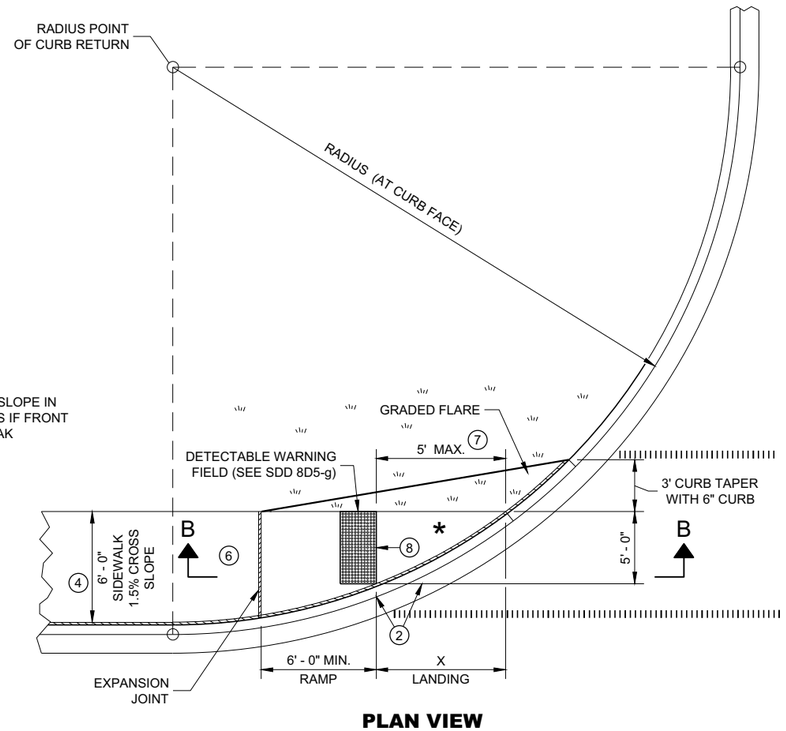
SECTION C - C FOR TYPE 4A



SECTION B - B FOR TYPE 4A AND TYPE 4A1

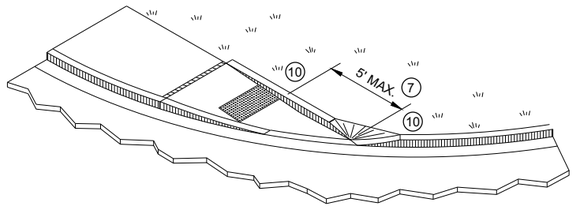
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

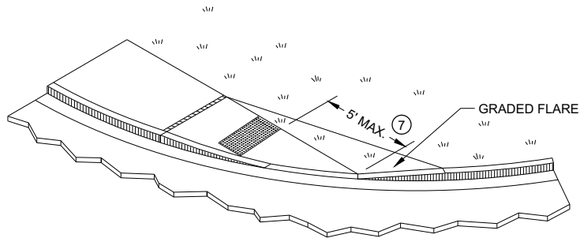


PLAN VIEW

CURB RAMP TYPE 4A1



ISOMETRIC VIEW FOR TYPE 4A



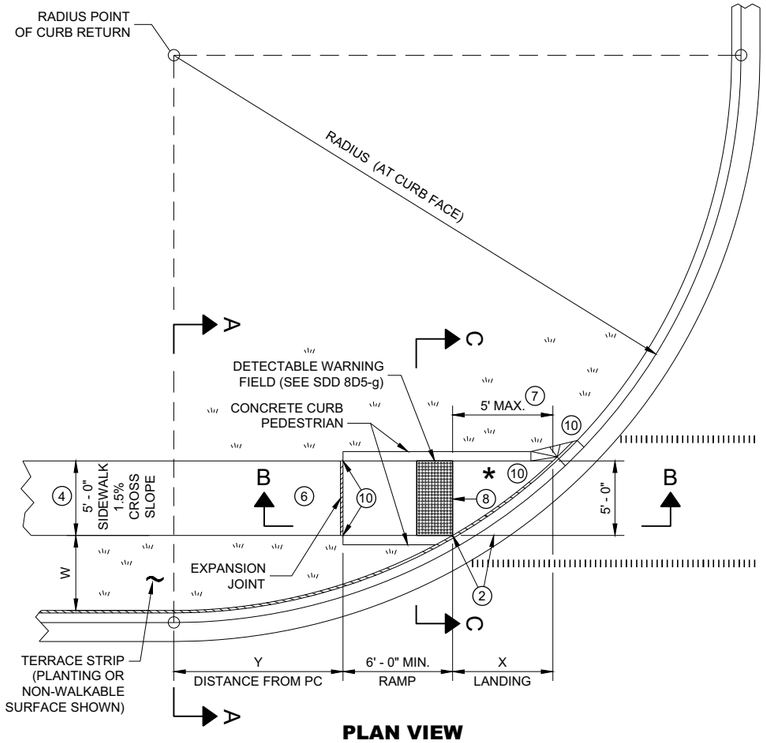
ISOMETRIC VIEW FOR TYPE 4A1

CURB RAMPS
TYPE 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20c

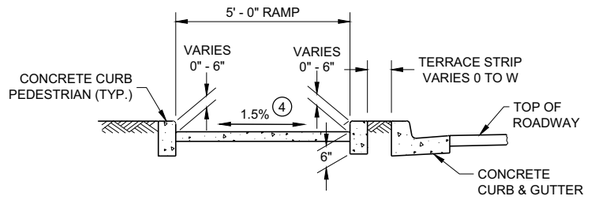


PLAN VIEW

CURB RAMP TYPE 4B

RADIUS (AT CURB FACE)	W = 3' - 0"		W = 4' - 0"		W = 5' - 0"		W = 6' - 0"		W = 7' - 0"		W = 8' - 0"		W = 9' - 0"		W = 10' - 0"	
	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y	X	Y
10 FEET	2' - 10 ¼"	0' - 5"	2' - 1"	1' - 4 ½"	1' - 5"	2' - 1"	0' - 10"	2' - 7 ½"	0' - 3 ¼"	3' - 0 ¼"						
15 FEET	4' - 6 ¾"	2' - 1 ¾"	3' - 9"	3' - 5 ¾"	3' - 1 ¼"	4' - 6"	2' - 6 ¾"	5' - 4 ½"	2' - 1"	6' - 1"	1' - 8"	6' - 8 ½"	1' - 3 ¼"	7' - 2 ½"	0' - 10 ¾"	7' - 7 ¼"
20 FEET	5' - 9 ¾"	3' - 6 ½"	4' - 11 ½"	5' - 1 ¾"	4' - 3 ¼"	6' - 5 ½"	3' - 8 ¾"	7' - 7"	3' - 3"	8' - 6 ½"	2' - 10"	9' - 4 ½"	2' - 5 ½"	10' - 1 ¼"	2' - 1 ¼"	10' - 9"
30 FEET			6' - 9 ¼"	7' - 11 ¼"	6' - 0 ¼"	9' - 8"	5' - 5"	11' - 1 ¾"	4' - 10 ¾"	12' - 5 ¾"	4' - 5 ½"	13' - 7 ¾"	4' - 0 ¾"	14' - 8 ½"	3' - 8 ½"	15' - 8 ¼"
40 FEET									6' - 1 ¾"	15' - 8 ½"	5' - 8"	17' - 2"	5' - 3"	18' - 5 ¾"	4' - 10 ¾"	19' - 8 ¼"
50 FEET															5' - 10 ¼"	23' - 2"

INTERMEDIATE RADII CAN BE INTERPOLATED
DIMENSION "Y" IS CALCULATED BASED ON 6'-0" RAMP LENGTH
DIMENSION "X" IS CALCULATED BASED ON 5'-0" SIDEWALK WIDTH



SECTION C - C FOR TYPE 4B

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

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 ¼ - 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) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

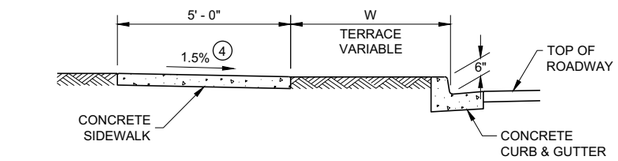
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

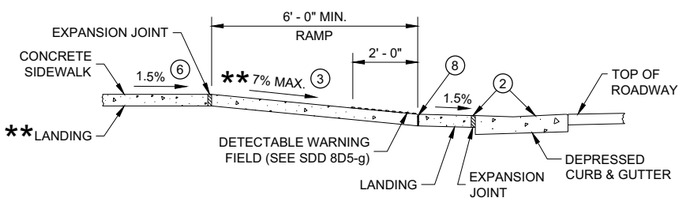
(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

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

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



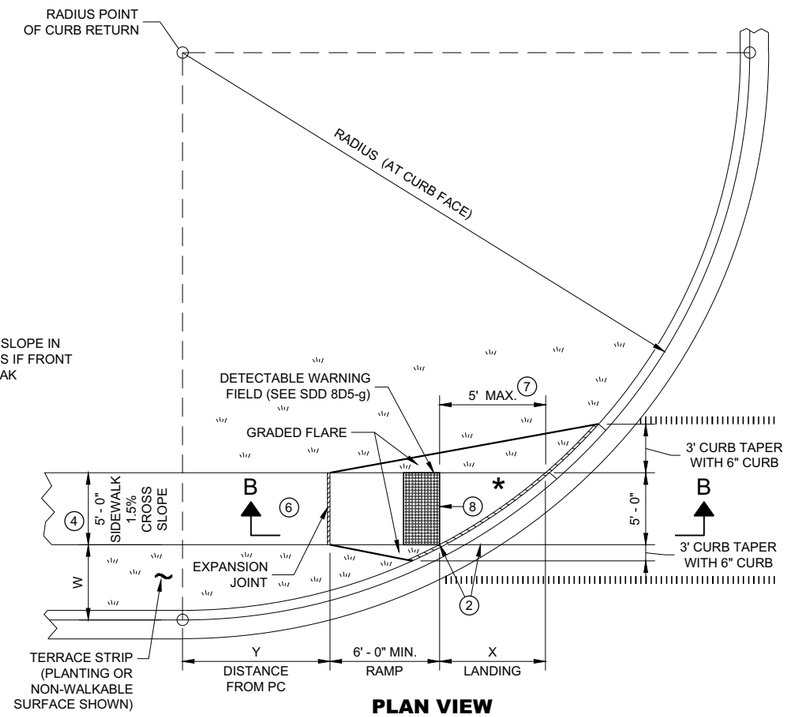
SECTION A - A FOR TYPE 4B



SECTION B - B FOR TYPE 4B AND TYPE 4B1

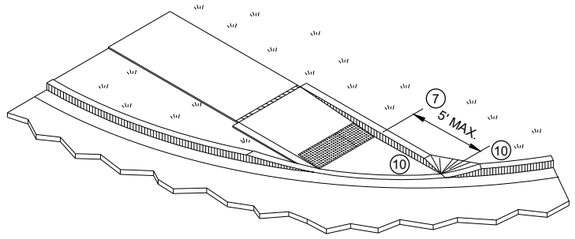
** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

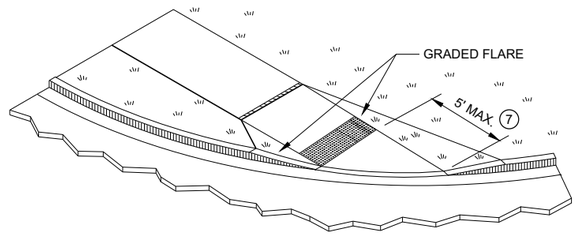


PLAN VIEW

CURB RAMP TYPE 4B1



ISOMETRIC VIEW FOR TYPE 4B



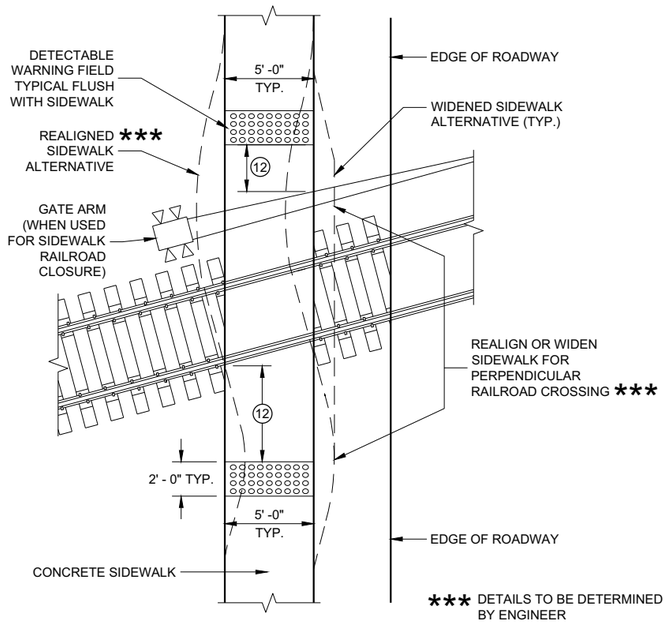
ISOMETRIC VIEW FOR TYPE 4B1

CURB RAMPS TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

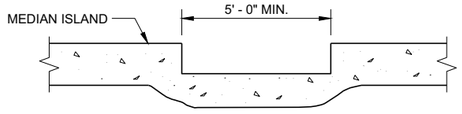
6

SDD 08D05 - 20d

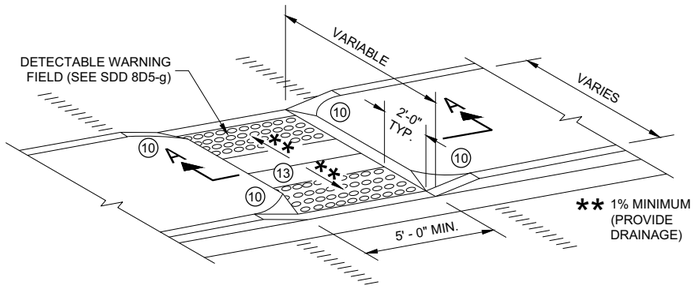


CURB RAMP TYPE 8

DETECTABLE WARNINGS AT RAILROAD CROSSING



SECTION A - A FOR TYPE 5



CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

GENERAL NOTES

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.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

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 ½ - 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) 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 PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

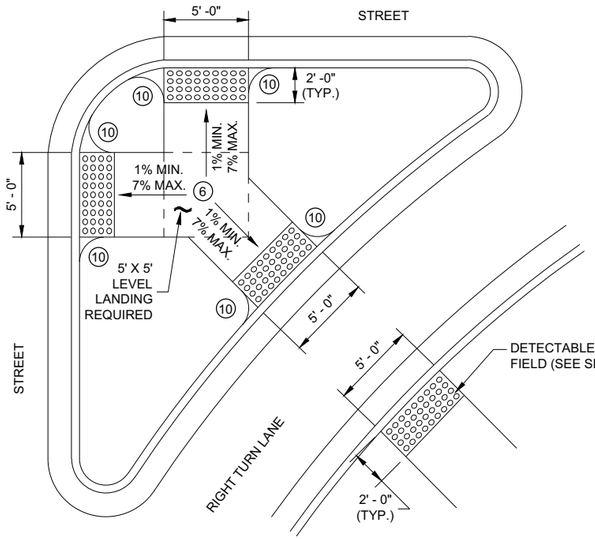
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(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 BE ACHIEVED.

LEGEND

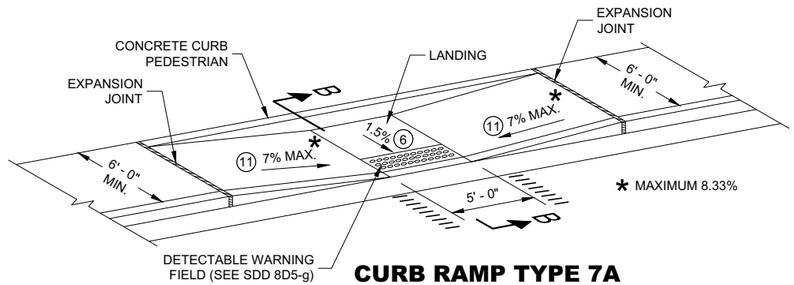
- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



CURB RAMP TYPE 6

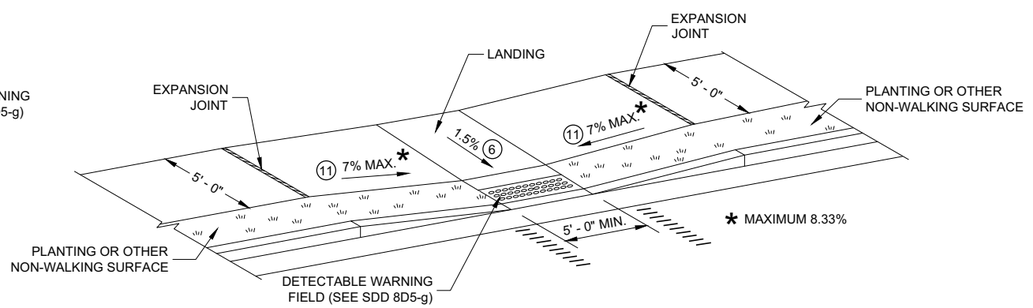
DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



CURB RAMP TYPE 7A

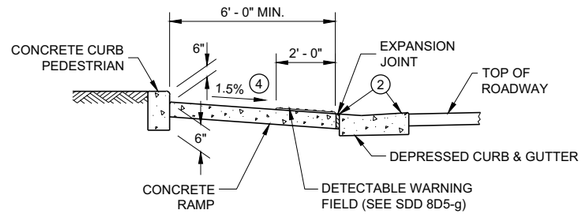
MID BLOCK CROSSING



CURB RAMP TYPE 7B

MID BLOCK CROSSING

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.



SECTION B - B FOR TYPE 7A

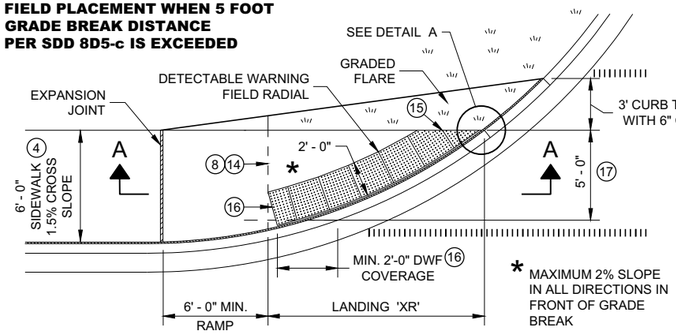
CURB RAMPS
TYPE 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 08D05 - 20e

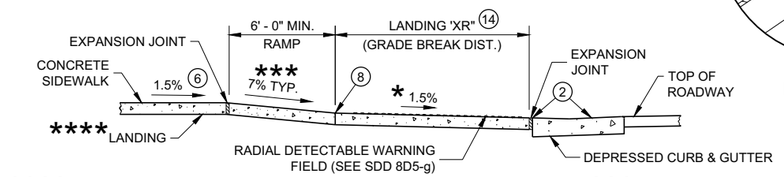
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-c IS EXCEEDED



PLAN VIEW

CURB RAMP TYPE 4A1

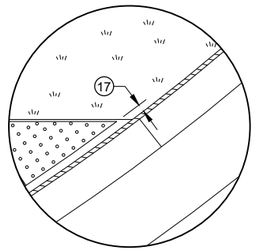
(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION A - A FOR TYPE 4A1



DETAIL A

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT SIDEWALK
- PAVEMENT MARKING CROSSWALK (WHITE)

GENERAL NOTES

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.

APPLY RADIAL DETECTABLE WARNING PLACEMENT SIMILARLY FOR TYPE 4A AND 4A1 CURB RAMPS AND SIMILARLY FOR TYPE 4B AND 4B1 CURB RAMPS. TYPE 4A AND 4B CURB RAMPS ARE NOT SHOWN.

REFER TO SDD 8D5-g FOR ADDITIONAL RADIAL PLATE REQUIREMENTS.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AD ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

(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 ¼ - 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) 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 PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET BY 5 FEET.

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

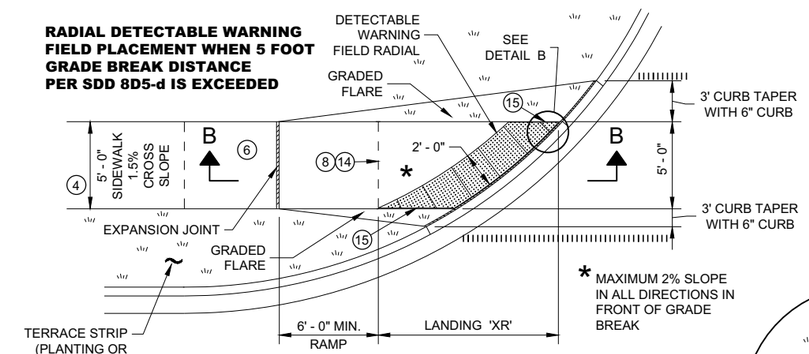
(14) CONSULT ENGINEER IF GRADE BREAK LOCATION (END OF LANDING DIMENSION "XR") REQUIRES FIELD ADJUSTMENT WHEN ESTABLISHING FINAL RADIAL DETECTABLE WARNING FIELD LOCATION.

(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 ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

(16) USE 1' X 2" RECTANGULAR END PLATE AT END OF TYPE 4A1 RAMP AND PROVIDE MINIMUM 2' - 0" DETECTABLE WARNING FIELD COVERAGE (IN DIRECTION OF PEDESTRIAN TRAVEL) ALONG THE ENTIRE CURB RAMP WIDTH.

(17) A MAXIMUM 3 INCH CONCRETE BORDER WITH IS ALLOWABLE IN FROM OF RADIAL DETECTABLE WARNING FIELD FOR CONSTRUCTABILITY PURPOSES. CONCRETE BORDER WIDTH MAY VARY UP TO 1 INCH.

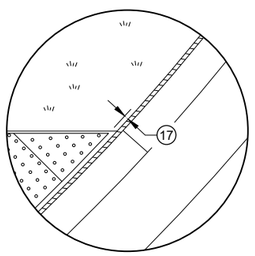
RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-d IS EXCEEDED



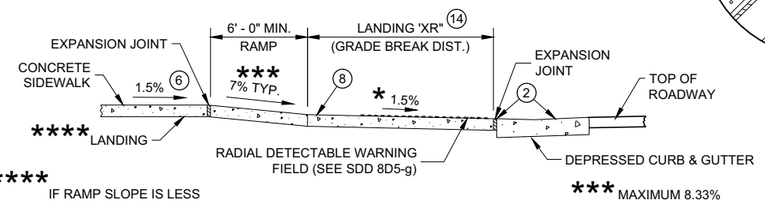
PLAN VIEW

CURB RAMP TYPE 4B1

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)



DETAIL B

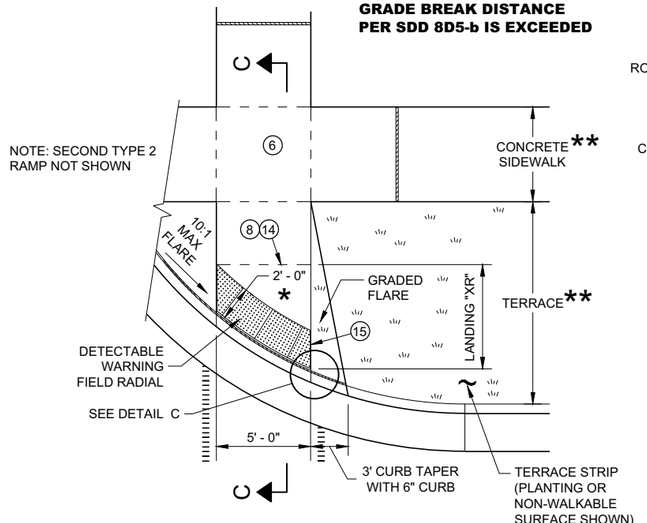


**** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

*** MAXIMUM 8.33%

SECTION B - B FOR TYPE 4B1

RADIAL DETECTABLE WARNING FIELD PLACEMENT WHEN 5 FOOT GRADE BREAK DISTANCE PER SDD 8D5-b IS EXCEEDED

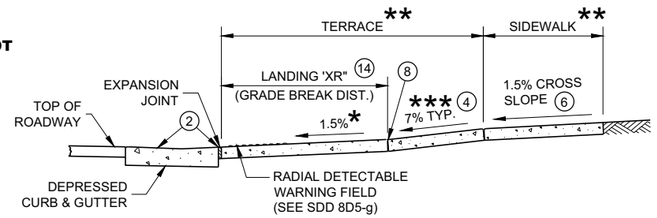


PLAN VIEW

CURB RAMP TYPE 2

(GRADE BREAK DISTANCE GREATER THAN 5 FEET)

(ON LINE WITH SIDEWALK)

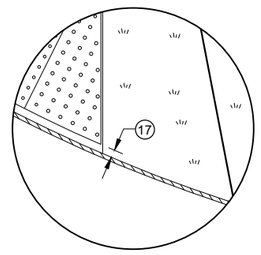


SECTION C - C FOR TYPE 2

* MAXIMUM 2% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** WIDTH SHOWN ELSEWHERE IN THE PLANS

*** MAXIMUM 8.33%



DETAIL C

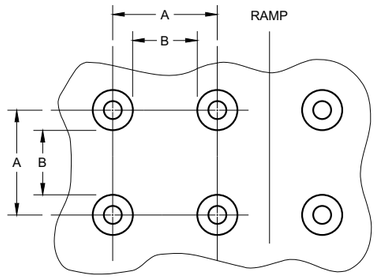
CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

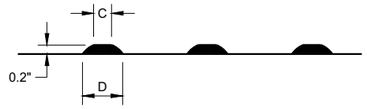
SDD 08D05 - 20f

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

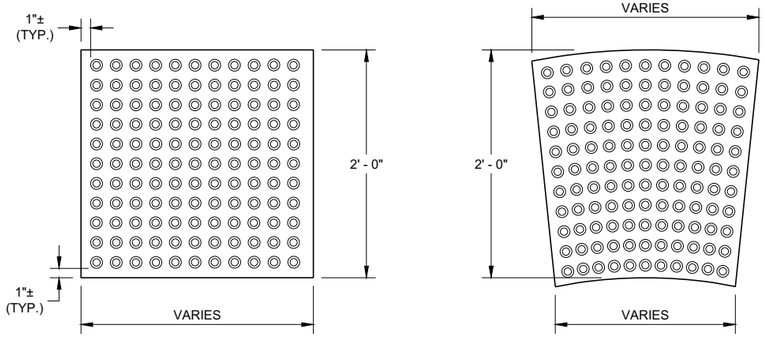


PLAN VIEW



ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

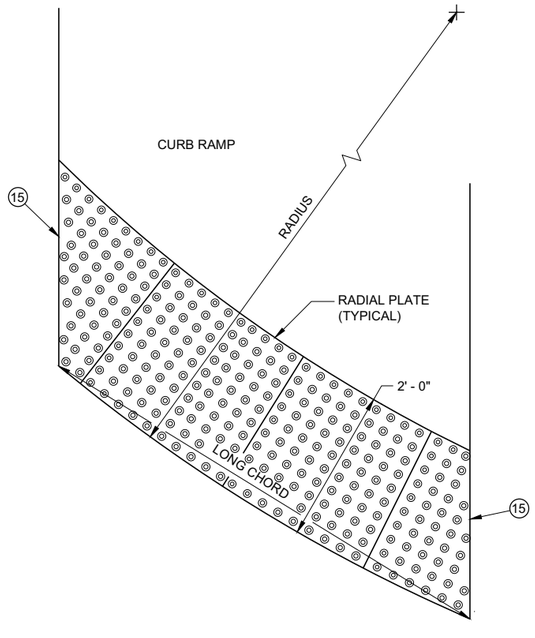
DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

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 RECOMMENDATIONS.

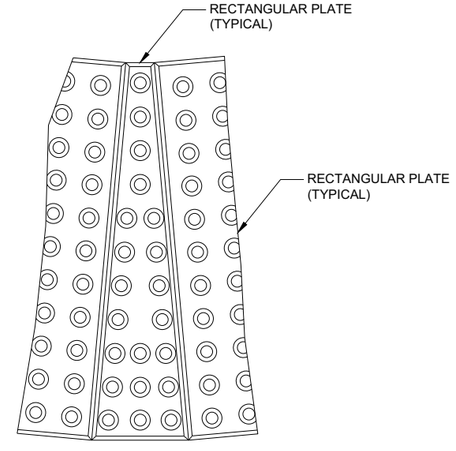
REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

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.

(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 ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



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 DEVE UNIT SUPERVISOR

FHWA

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SDD 08D05 - 20g

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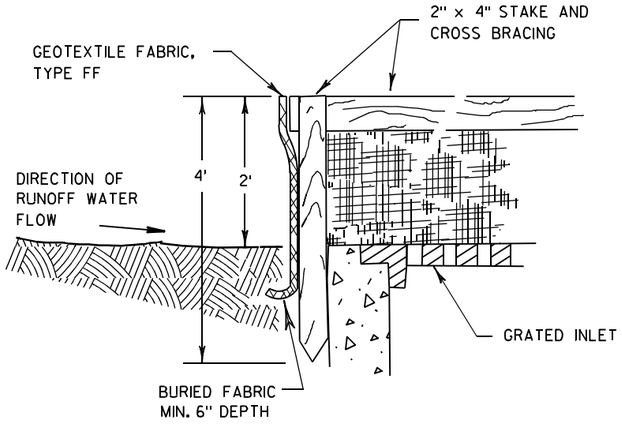
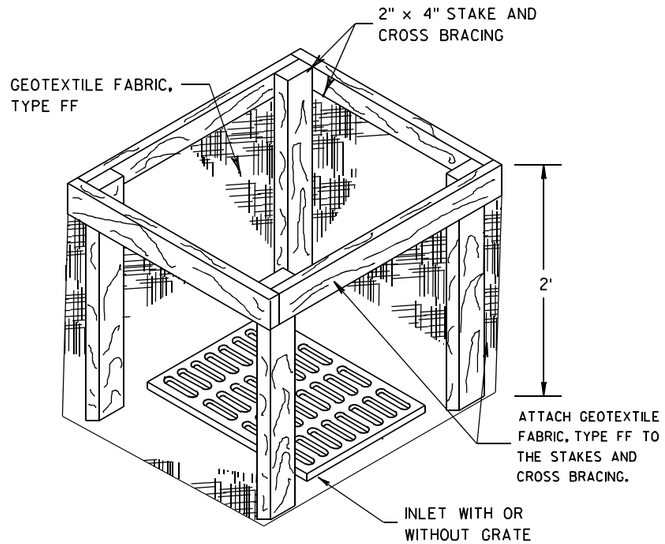
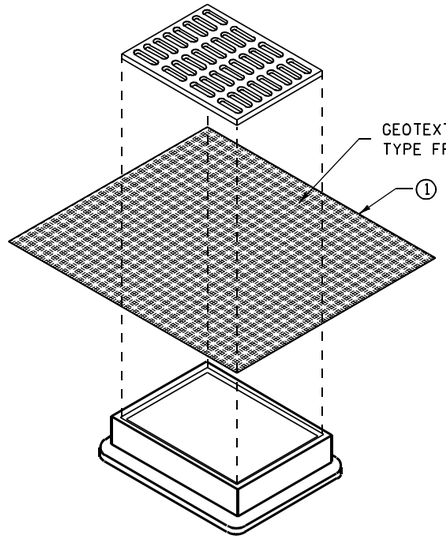
SDD 08D05 - 20g



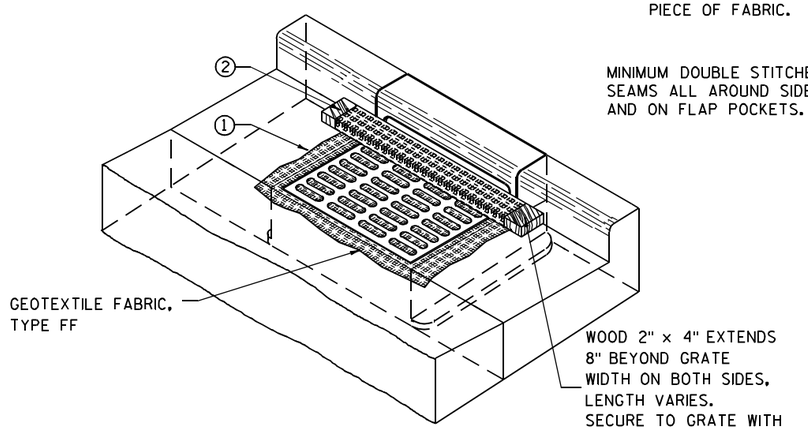


INLET PROTECTION, TYPE A

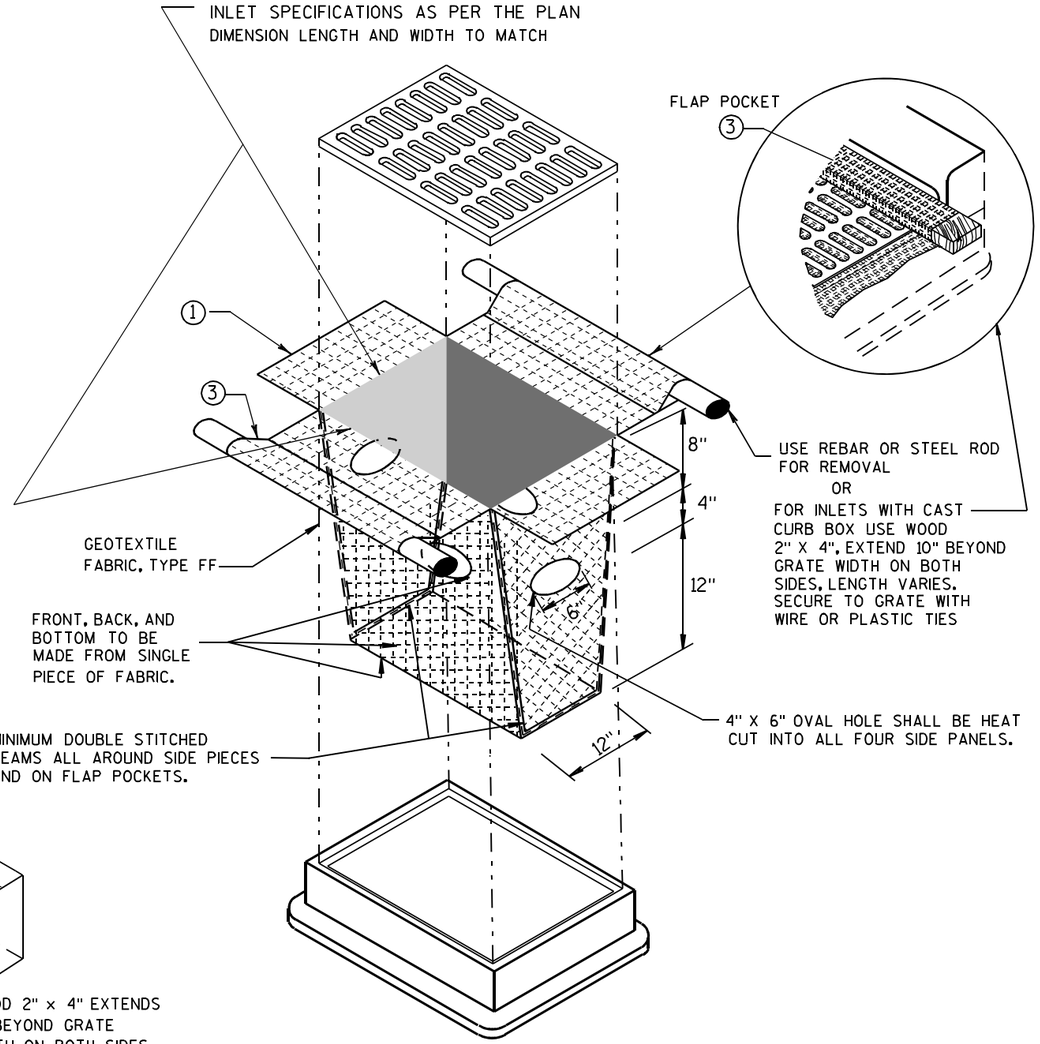


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

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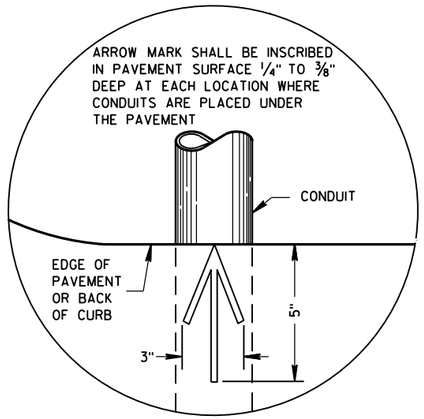
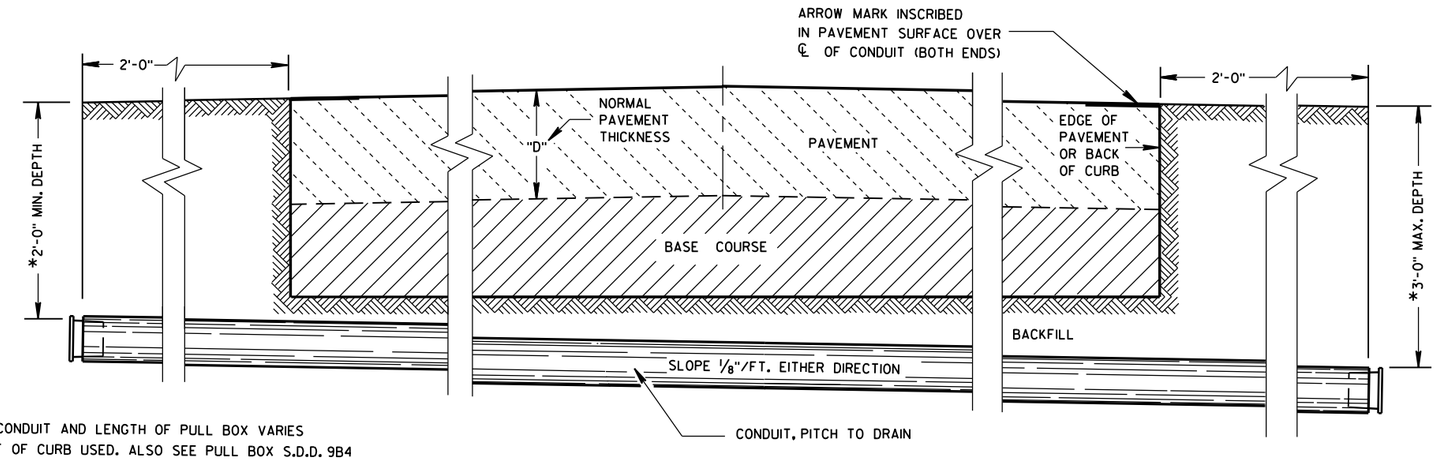
S.D.D. 8 E 10-2



PLAN VIEW

ARROW MARK



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

GENERAL NOTES

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

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

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

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

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

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

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

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

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

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

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

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

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

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

PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED 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 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.).

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

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

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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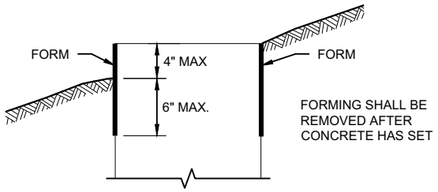
S.D.D. 9 B 2-10

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

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

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE SHOWN ON THE PLANS

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.

ENDS OF CONDUIT INSTALLED BELOW GRADE FRO FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC.

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

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

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.

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.

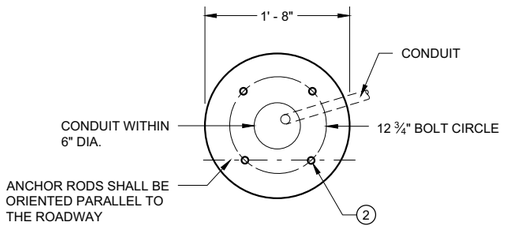
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

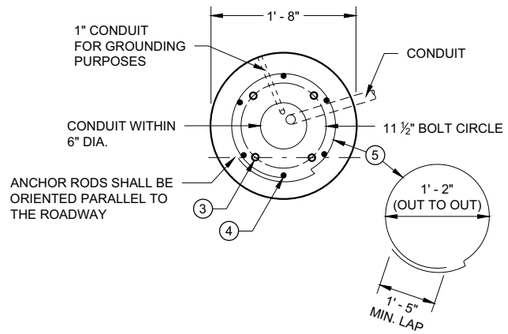
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

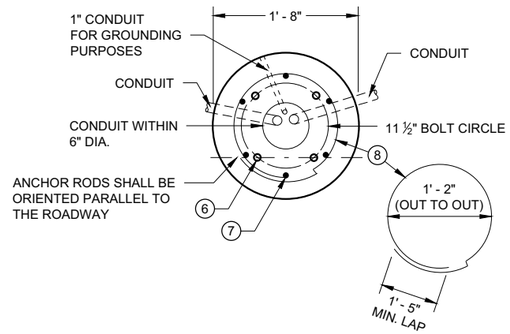
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

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).







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 EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

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

3 (4) 1" DIA. X 5' - 0" ANCHOR RODS.

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

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

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

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

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

9 EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR

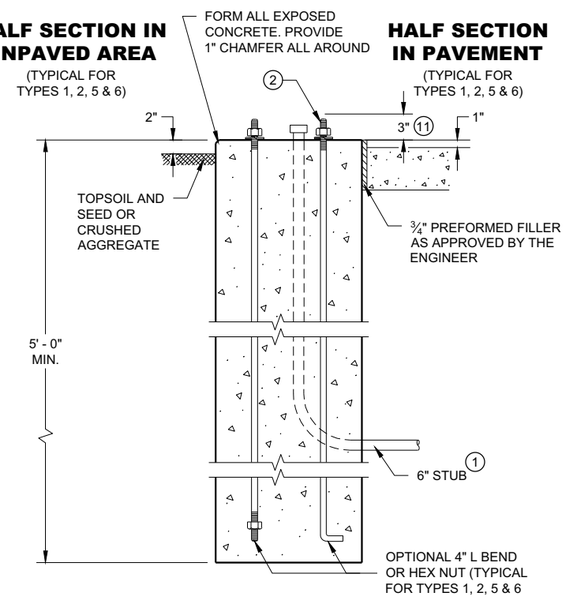
10 ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

11 ANY ANCHOR ROD PROJECTION SHORTER THAN 2 ¾" OR LONGER THAN 3 ¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

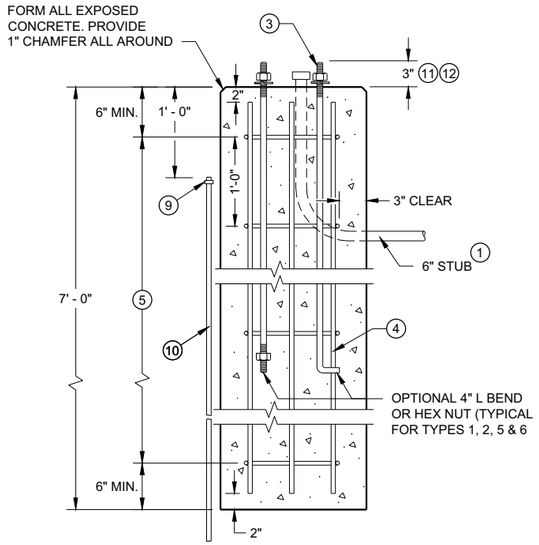
12 FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5 & 6)

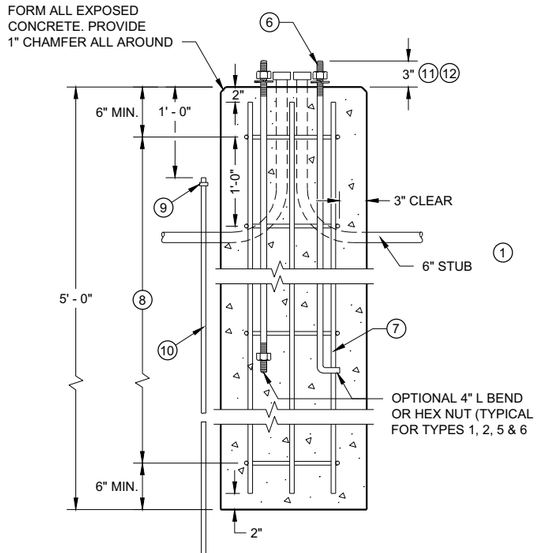
HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5 & 6)



TYPE 1



TYPE 2



TYPE 5 & 6

CONCRETE BASES

CONCRETE BASES
TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

FHWA

GENERAL NOTES

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 1" 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.

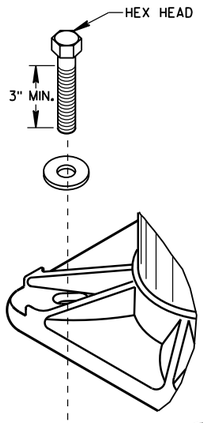
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

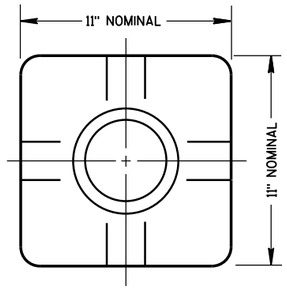
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

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

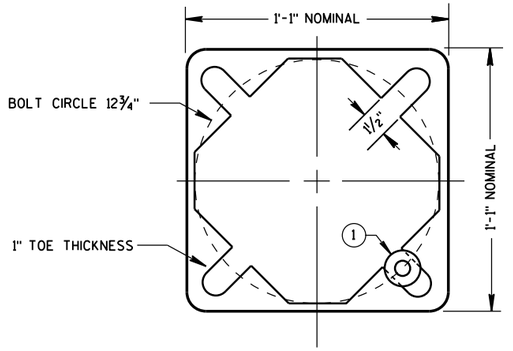
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

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

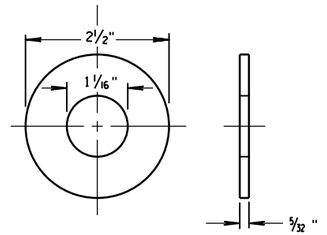




TOP VIEW
(PEDESTAL BASE)

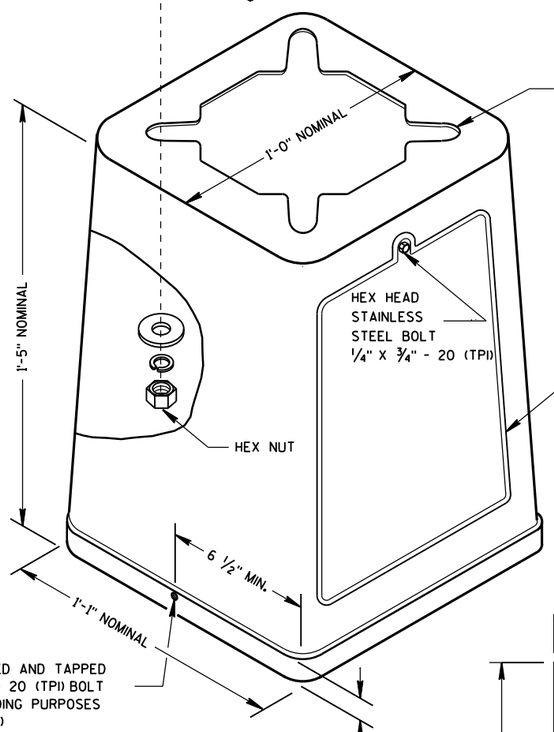


BOTTOM VIEW
(PEDESTAL BASE)

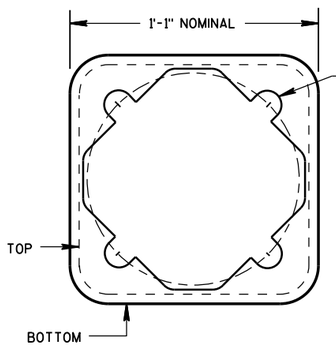


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

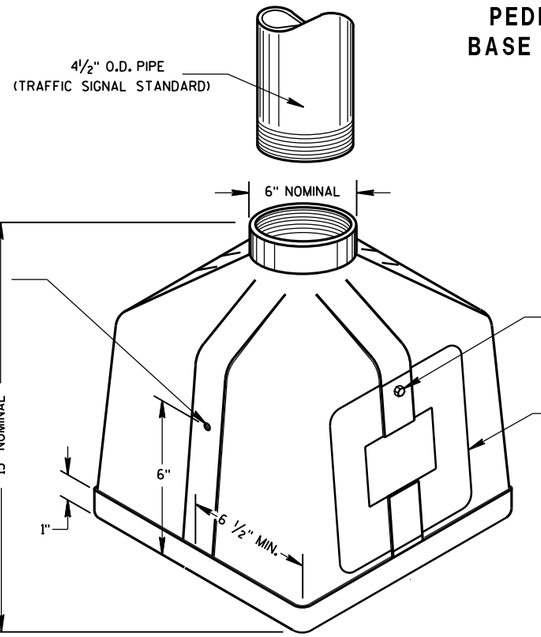
PEDESTAL BASE WASHER (1)



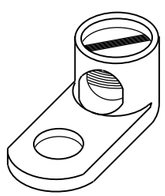
ISOMETRIC VIEW



BOTTOM VIEW
(TRANSFORMER BASE)

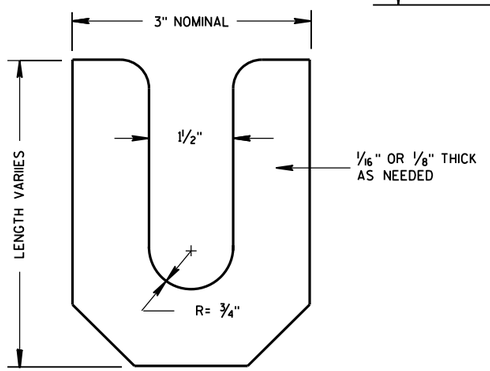


ISOMETRIC VIEW
PEDESTAL BASE



TYPICAL MECHANICAL CONNECTOR LUG
TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE
INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 C 3-4

GENERAL NOTES

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

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

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 AT THE ENTRANCE OF THE BASE.

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

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 4 INCHES. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED. NONMETALLIC CONDUIT SHALL HAVE BELL END INSTALLED. ALL CONDUIT SHALL BE SLOPED TO PULL BOX.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUIT 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.

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

WHEN REQUIRED TO CONNECT NONMETALLIC 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).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL 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.

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

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

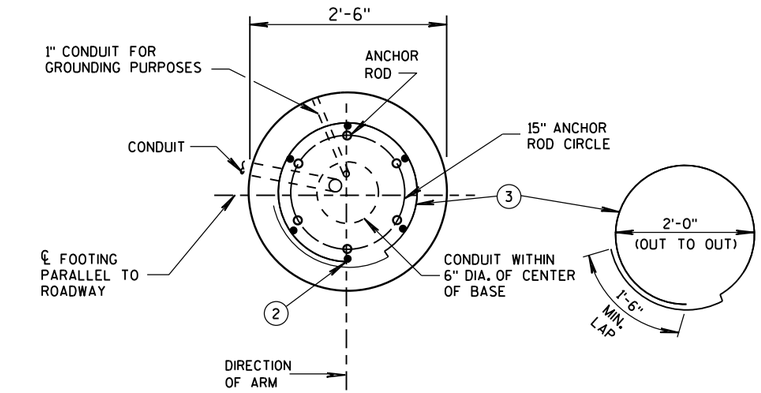
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

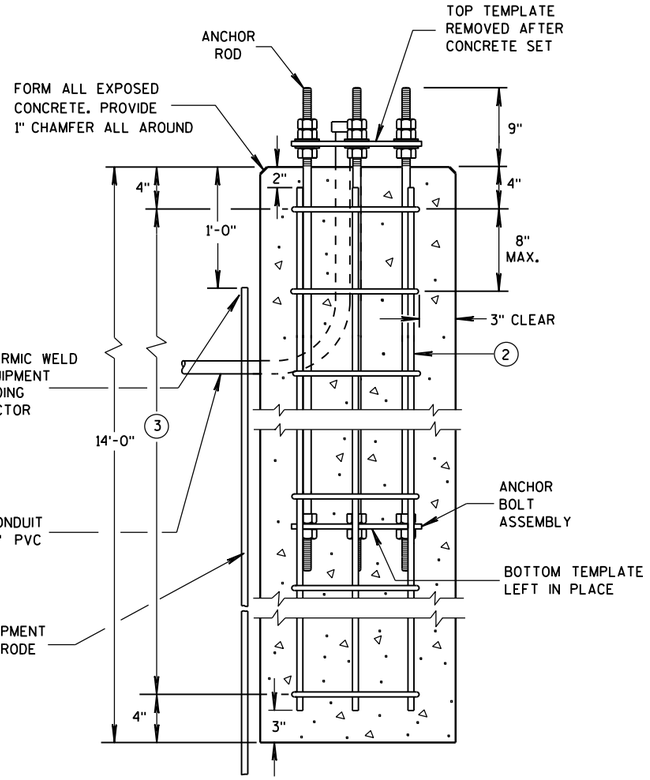
(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES. (GREATER THAN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

(2) (6) NO. 6 X 13'-7" BAR STEEL REINFORCEMENT.

(3) (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 WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATION)	fy=55,000 p.s.i.
TEMPLATES, ASTM, A709 GRADE 36	fy=36,000 p.s.i.

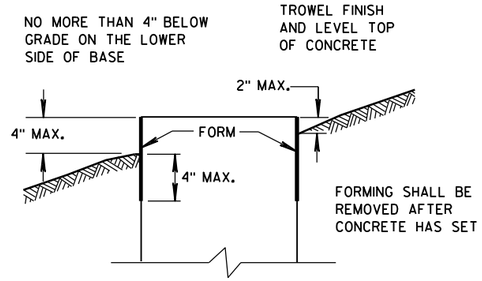




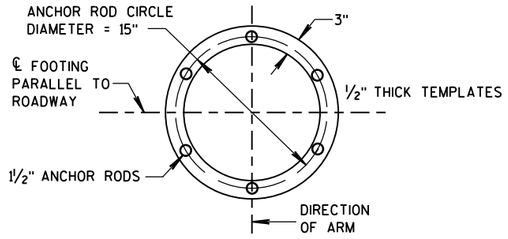
CONCRETE BASE TYPE 10

(FOR TYPE 9 & 10 & OVER HEIGHT (OH) POLES)

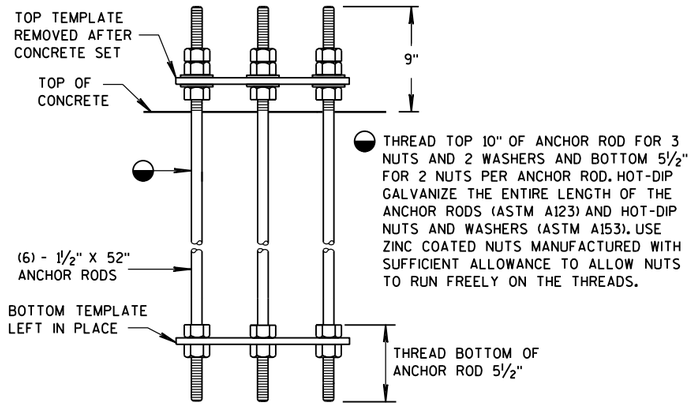
TO BE USED WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION. SEE S.D.D. 9C13-2 WHEN GROUND ELEVATION AT BASE IS LOWER THAN HIGH POINT OF ROADWAY ELEVATION.



FORMING DETAIL



TOP AND BOTTOM TEMPLATES



ANCHOR BOLT ASSEMBLY DETAIL

CONCRETE BASE TYPE 10 ANCHOR ASSEMBLY

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 C 11-10

GENERAL NOTES

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 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.

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 ½" 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.

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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.

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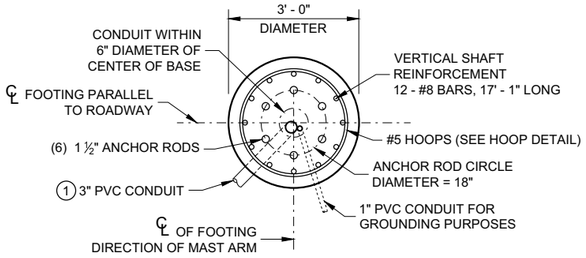
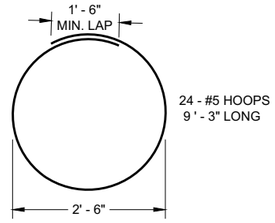
(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES (GREATER THAN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

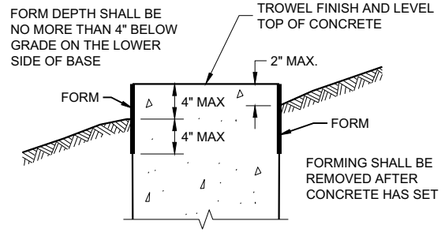
CONCRETE MASONRY.....fc = 3,500 p.s.i
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60.....fy = 60,000 p.s.i.
ANCHOR RODS, ASTM F1554 GRADE 55 (IN ACCORDANCE WITH SECTION 531.2.2 OF THE STANDARD SPECIFICATION).....fy = 55,000 p.s.i.
TEMPLATES, ASTM A709, GRADE 36.....fy = 36,000 p.s.i.



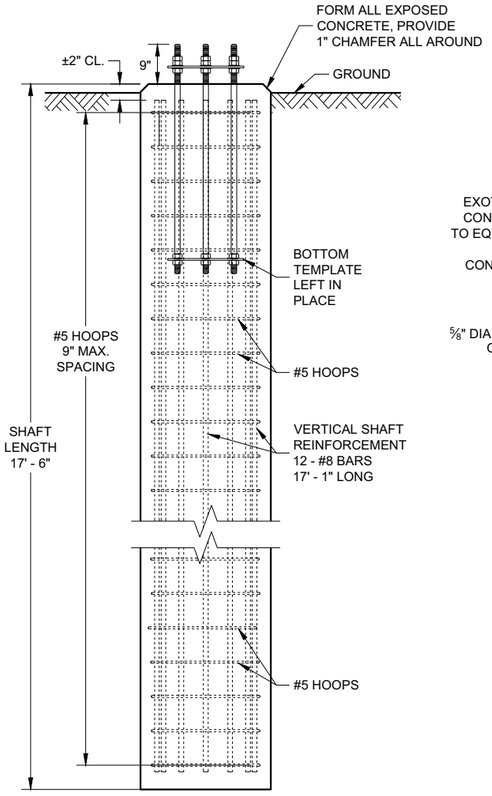
PLAN VIEW



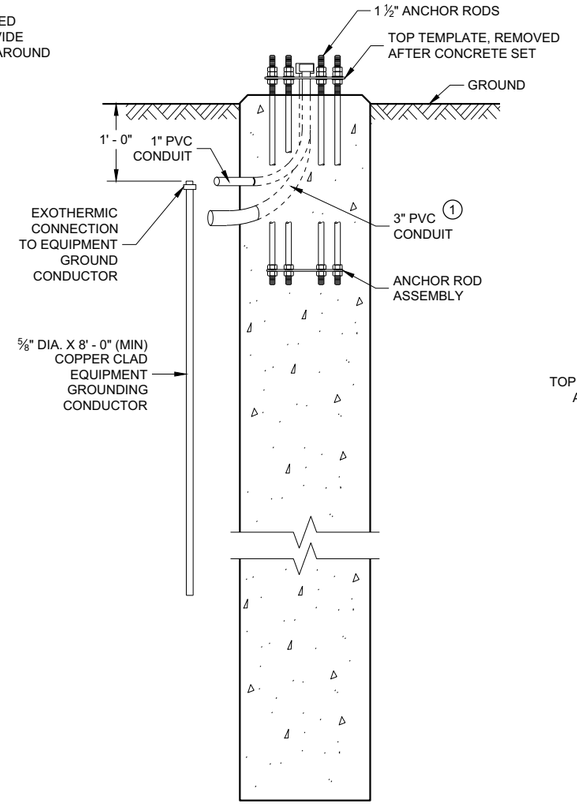
HOOP DETAIL



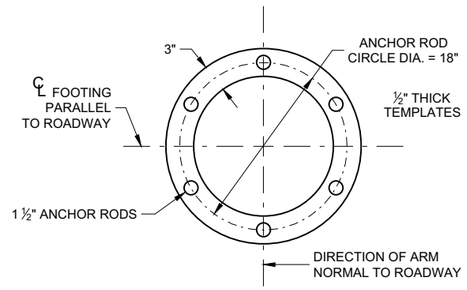
FORMING DETAIL



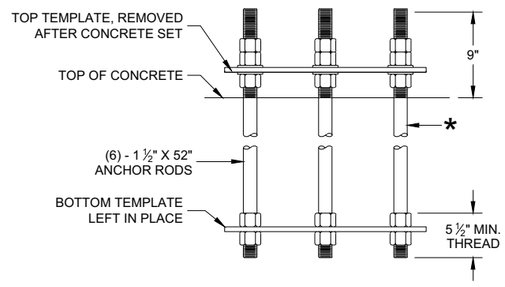
ELEVATION VIEW
(CONDUITS NOT SHOWN ON THIS VIEW FOR CLARITY)



SIDE VIEW
(HOOPS AND VERTICAL SHAFT REINFORCEMENT NOT SHOWN ON THIS VIEW FOR CLARITY)



TOP AND BOTTOM TEMPLATE



ANCHOR ROD ASSEMBLY DETAILS

* THREAD TOP 10" OF ANCHOR ROD FOR 3 NUTS AND 2 WASHERS AND BOTTOM 5 ½" FOR 2 NUTS PER ANCHOR ROD. HOT DIP GALVANIZE THE ENTIRE LENGTH OF THE ANCHOR ROD (ASTM A123) AND HOT DIP NUTS AND WASHERS (ASTM A153. USE ZINC COATED NUTS MANUFACTURED WITH SUFFICIENT ALLOWANCE TO ALLOW NUTS TO RUN FREELY ON THE THREADS.

CONCRETE BASE, TYPE 10 SPECIAL
(FOR TYPE 9 SPECIAL AND TYPE 10 SPECIAL POLES)

CONCRETE = 4.6 CUBIC YARD
H.S. REINFORCEMENT = 779 LBS.

FOR USE WHEN GROUND ELEVATION AT BASE EQUALS OR IS GREATER THAN HIGH POINT OF ROADWAY ELEVATION.

CONCRETE BASE TYPE 10 SPECIAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020 — DATE
/S/ Alex Crabtree — WIND LOADED STRUCTU PROGRAM LEADER
FHWA

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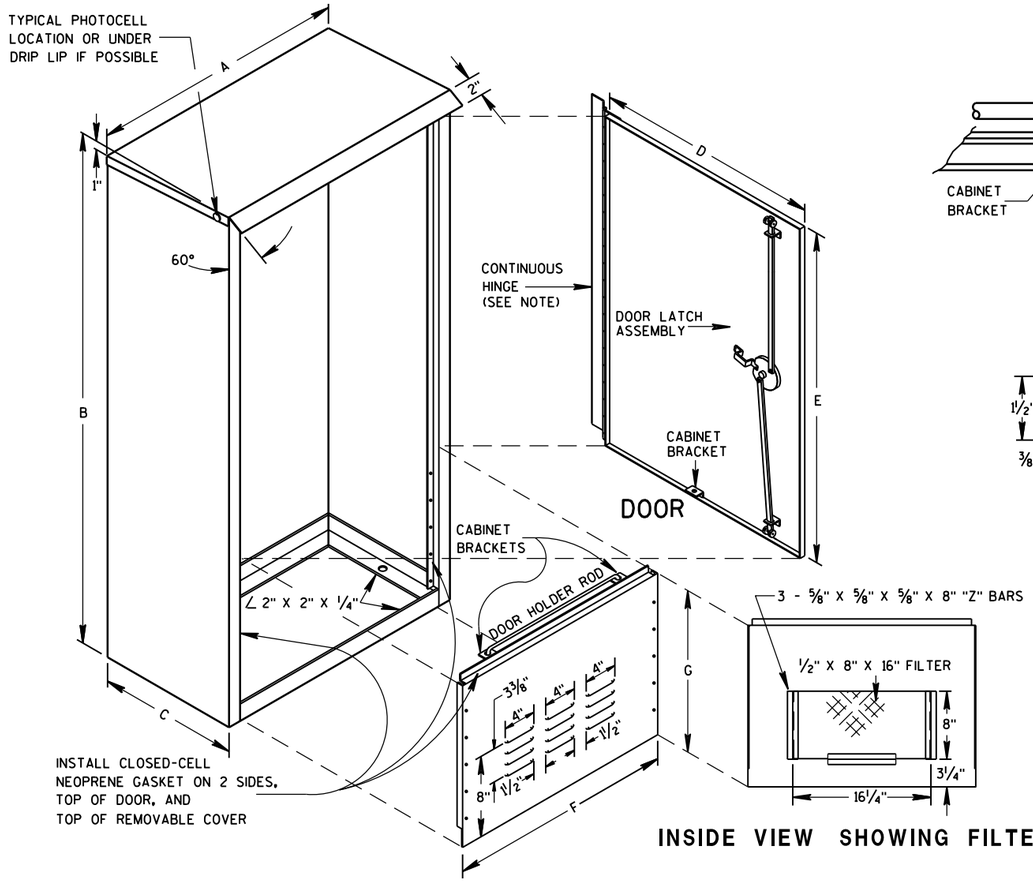
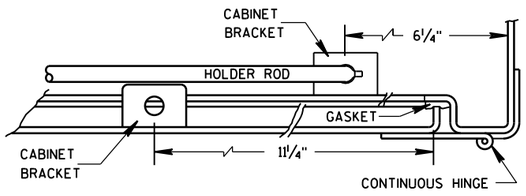
SDD 09C15 - 01

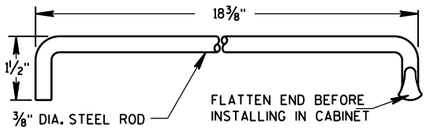


INSIDE VIEW SHOWING FILTER

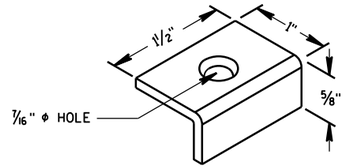
REMOVABLE COVER



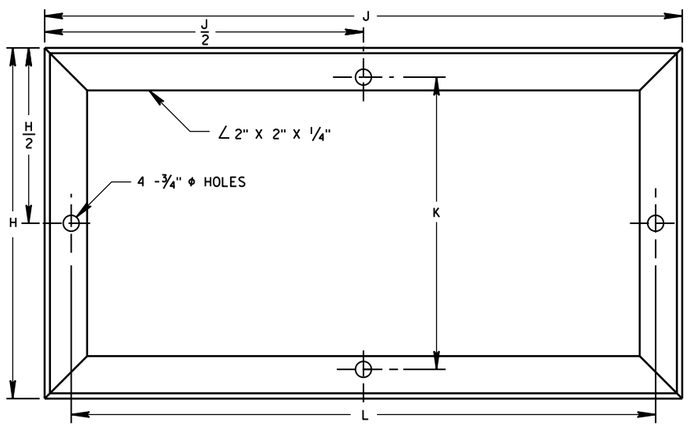
HINGE & DOOR HOLDER



HOLDER ROD



CABINET BRACKET



MOUNTING BASE

TABLE OF DIMENSIONS (INCHES)

MARK	CABINET TYPE		
	3060	3860	3866
A	30	38	38
B	60	60	66
C	16 1/2	16 1/2	24
D	26 1/2	34 3/4	33 3/4
E	38 3/4	38 3/4	38 3/4
F	26 1/2	34 3/4	33 3/4
G	19	19	25
H	16 1/2	16 1/2	24
H/2	8 1/4	8 1/4	12
J	30	38	38
J/2	15	19	19
K	13 3/4	13 3/4	21 1/4
L	27 1/2	35 1/2	35 1/2

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.

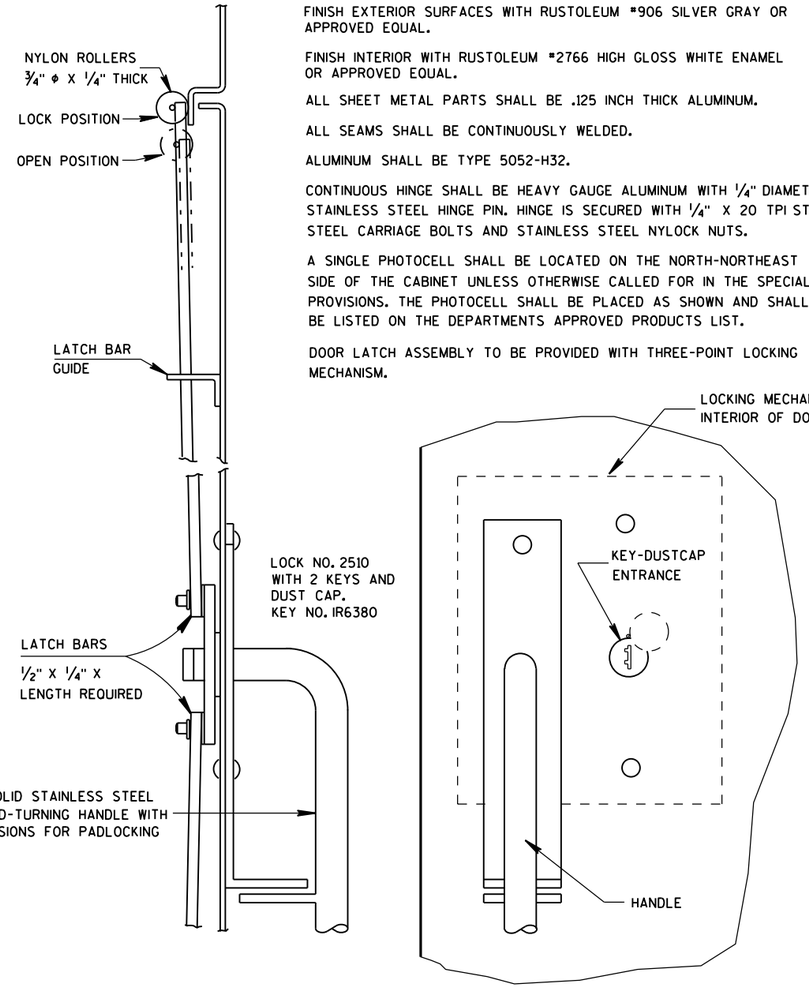
ALL SEAMS SHALL BE CONTINUOUSLY WELDED.

ALUMINUM SHALL BE TYPE 5052-H32.

CONTINUOUS HINGE SHALL BE HEAVY GAUGE ALUMINUM WITH 1/4" DIAMETER STAINLESS STEEL HINGE PIN. HINGE IS SECURED WITH 1/4" 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.

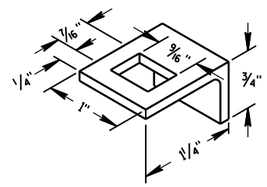
DOOR LATCH ASSEMBLY TO BE PROVIDED WITH THREE-POINT LOCKING MECHANISM.



SIDE VIEW

FRONT VIEW

LATCH ASSEMBLY



LATCH BAR GUIDE

SIGNAL CONTROL CABINET

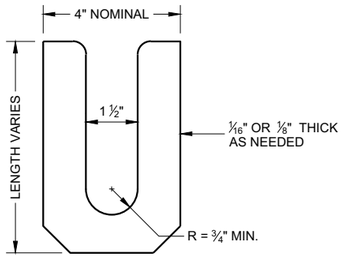
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE

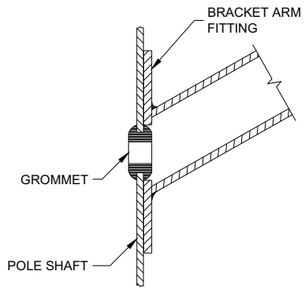
/S/ Ahmet Demirbilek
STATE ELECTRICAL

FHWA

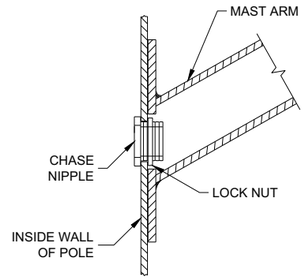
6
S.D.D. 9 D 2-3



LEVELING SHIM (1)
SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

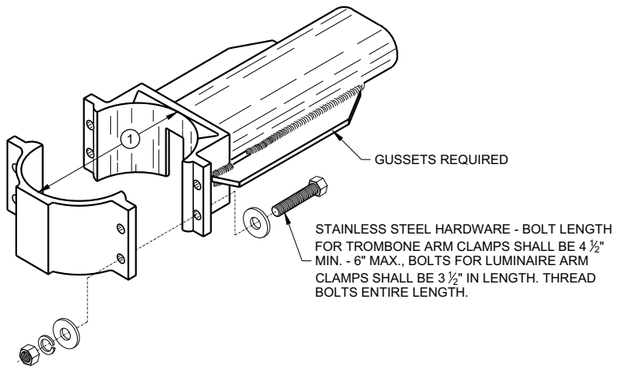
(1) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP. 6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(2) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

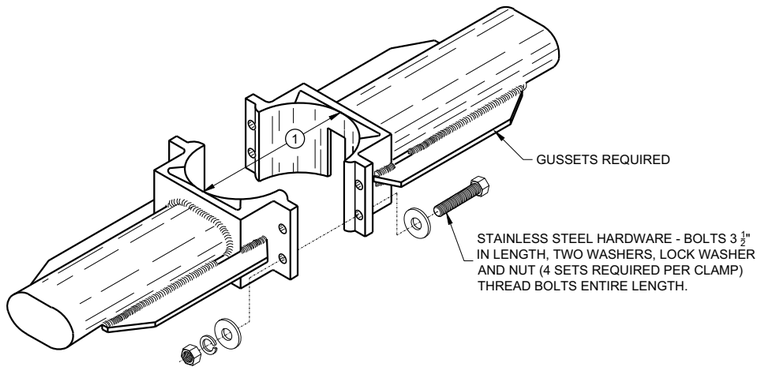
(3) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(4) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

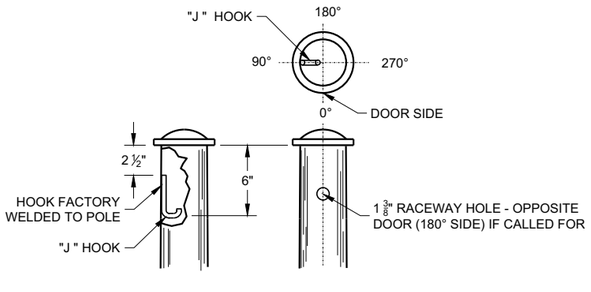
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



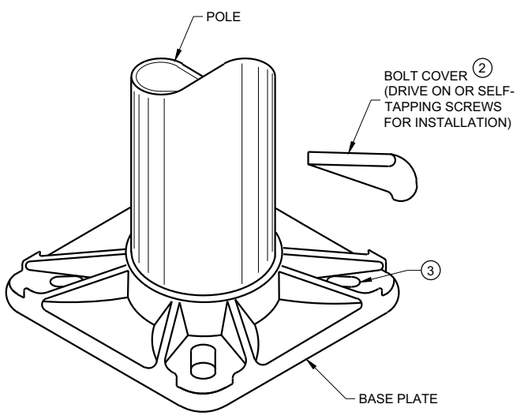
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



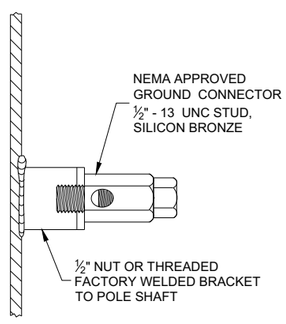
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

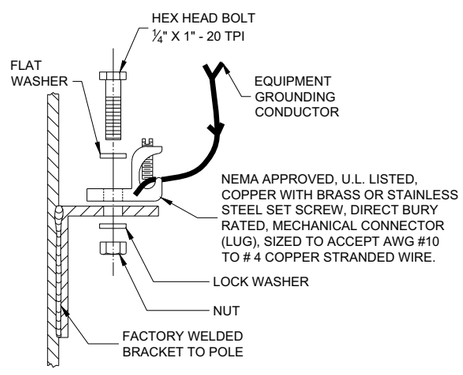


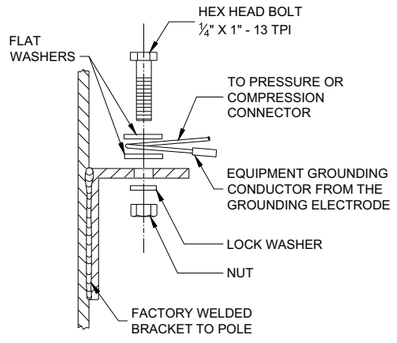
TYPICAL "J" HOOK LOCATION



BASE PLATE







TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

HARDWARE DETAILS FOR POLE MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

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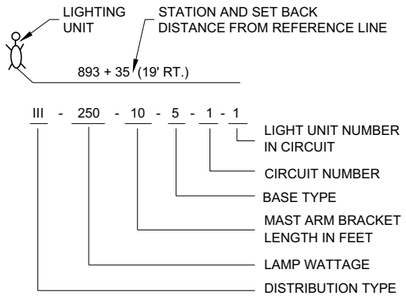
GENERAL NOTES

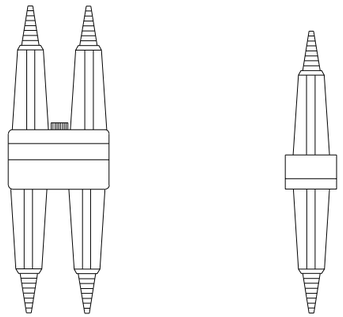
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EQUIPMENT GROUND CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

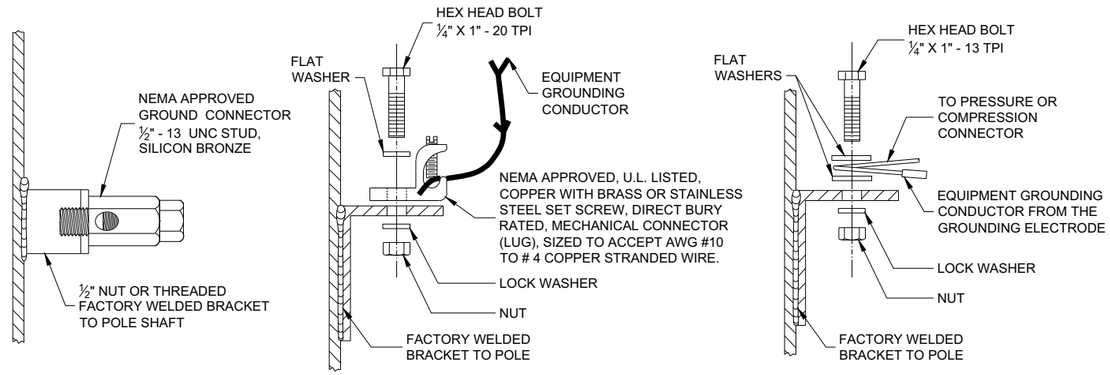


LIGHTING UNIT CODE
(TYPICAL)

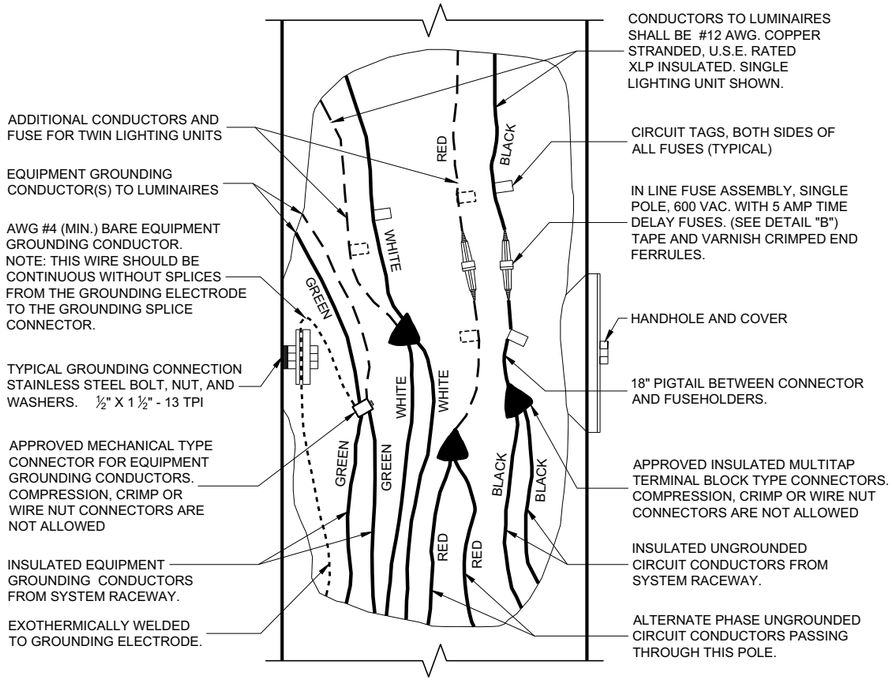


DETAIL "A"
BREAKAWAY DOUBLE POLE WITH WATERPROOF INSULATING BOOT

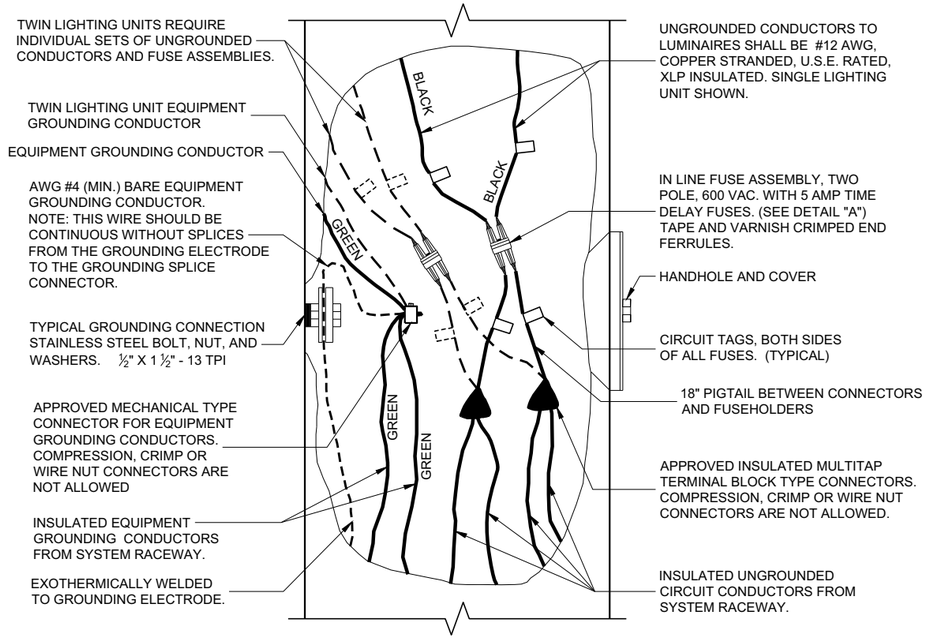
DETAIL "B"
BREAKAWAY SINGLE POLE WITH WATERPROOF INSULATING BOOT



TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH GROUNDING CONDUCTOR AND EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

NON - FREEWAY LIGHTING UNIT POLE WIRING

STATE OF WISCONSIN
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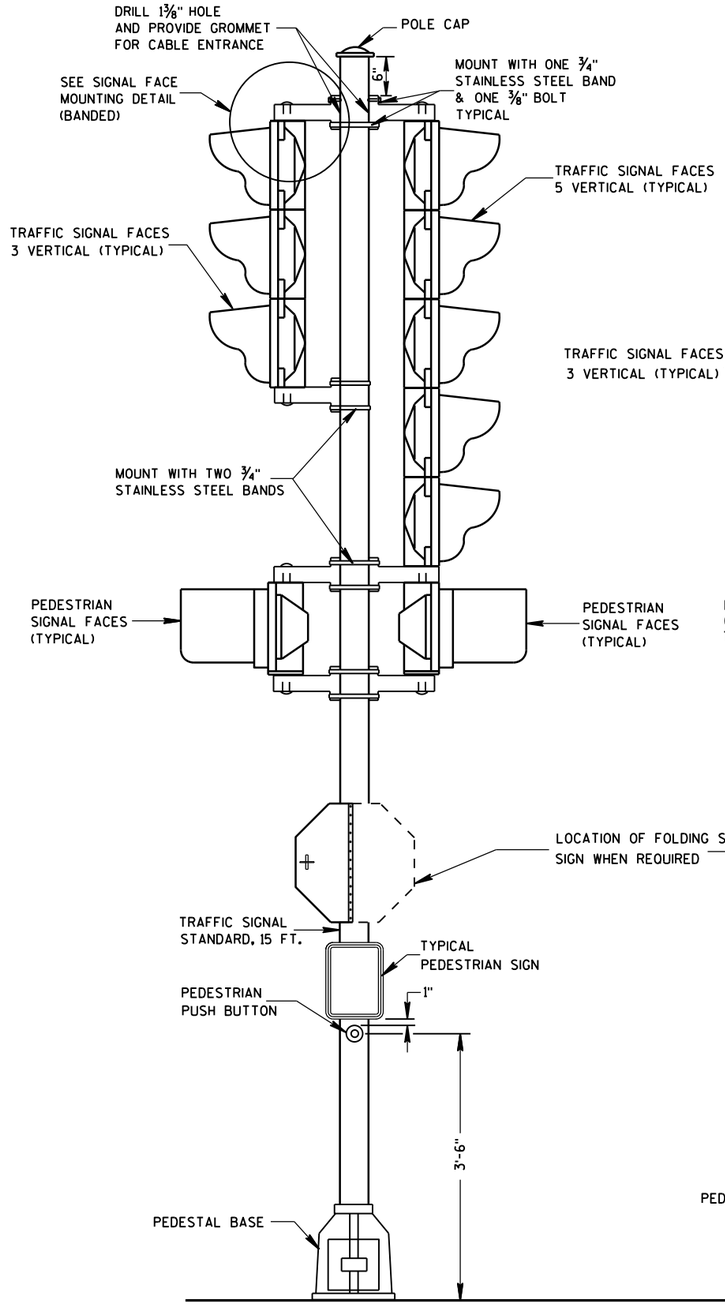
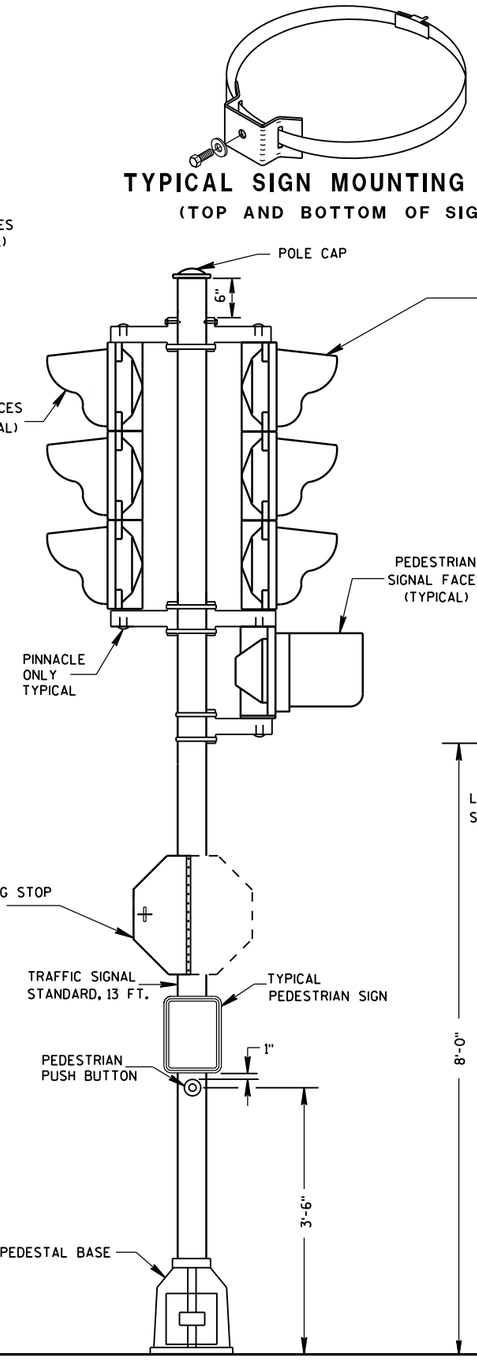
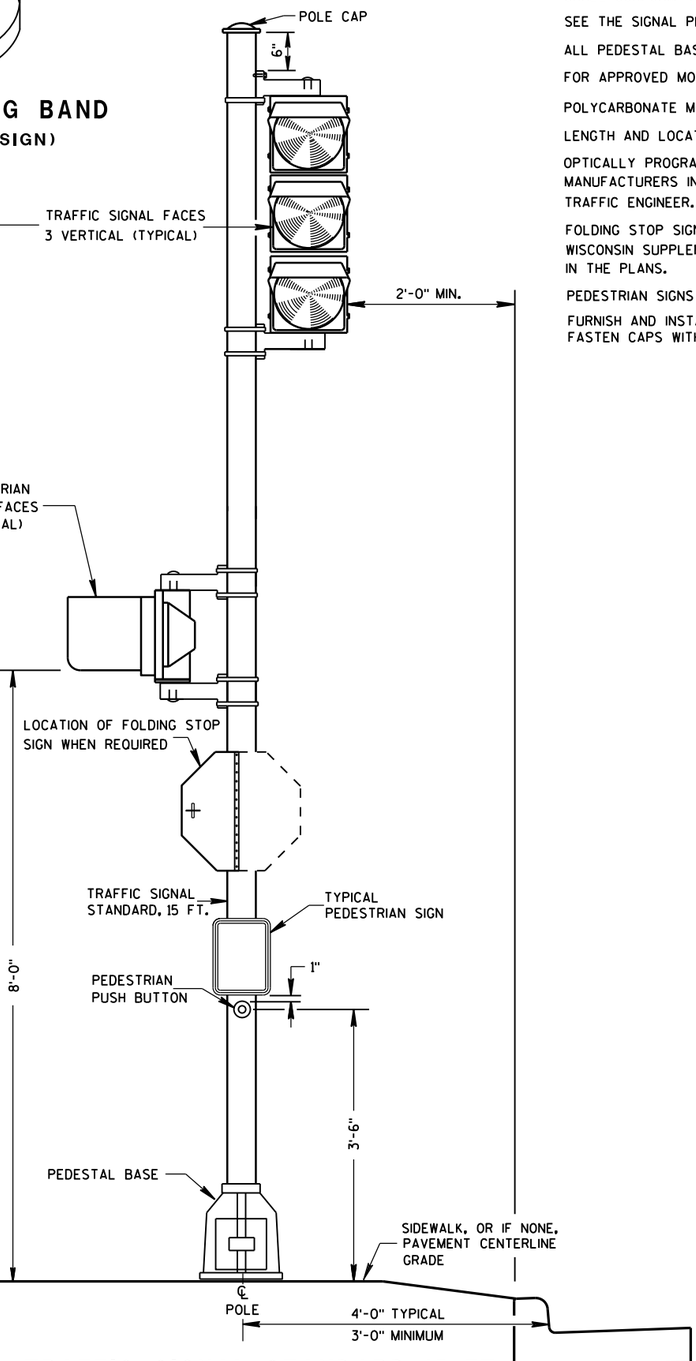


TRAFFIC SIGNAL STANDARD-15 FT.



TRAFFIC SIGNAL STANDARD-13 FT.

TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



TRAFFIC SIGNAL STANDARD-15 FT.
3M MOUNTING (TYPICAL)

GENERAL NOTES

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

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

POLYCARBONATE MOUNTING BRACKETS SHALL BE USED.

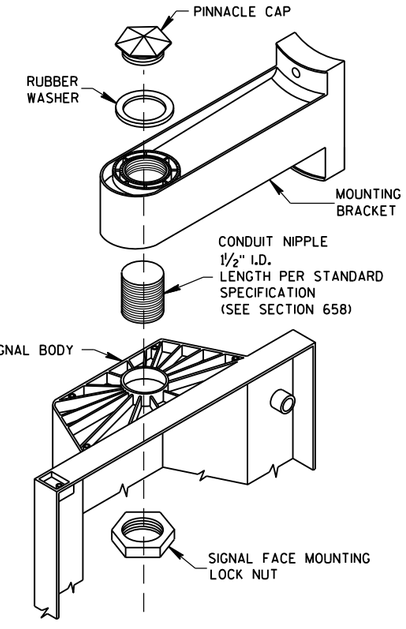
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN IN THE PLANS.

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



SIGNAL FACE MOUNTING DETAIL
(BANDED)

TRAFFIC SIGNAL STANDARD
POLY BRACKET MOUNTINGS
(TYPICAL) 13 FT. OR 15 FT.

STATE OF WISCONSIN
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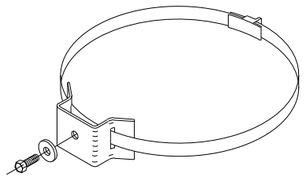
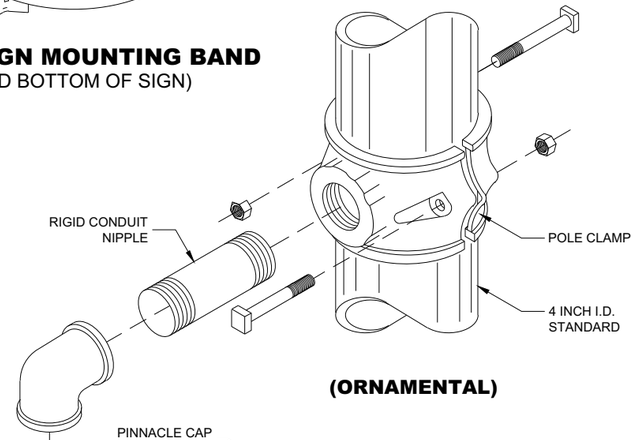
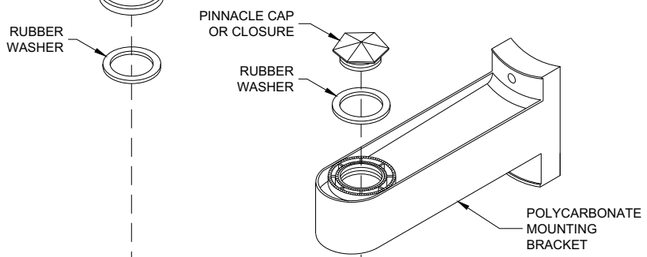


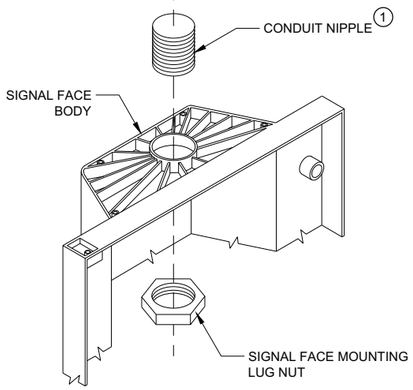
TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



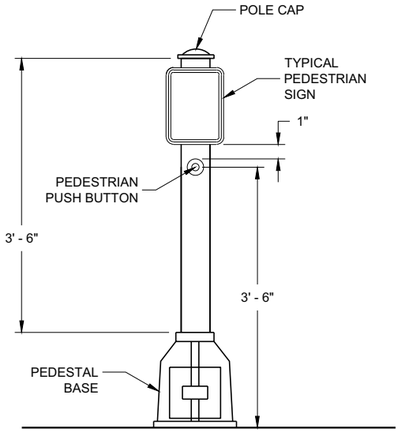
(ORNAMENTAL)



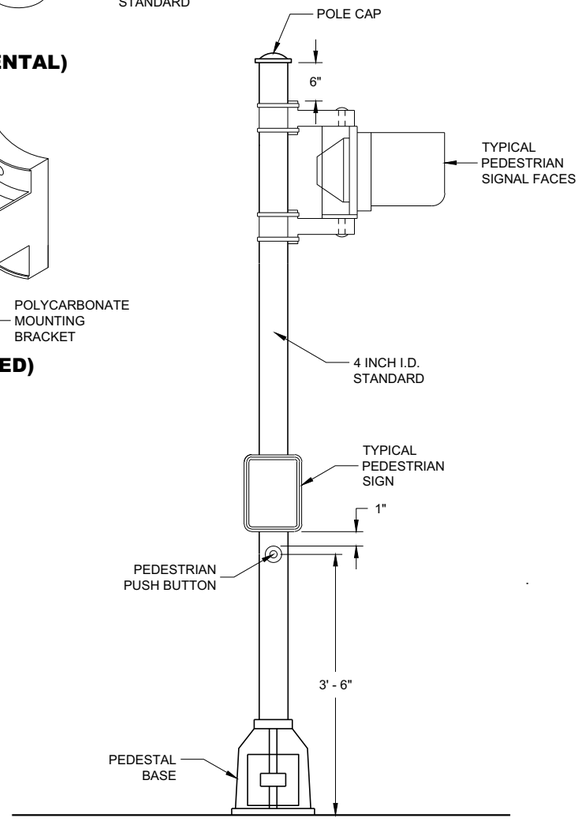
(BANDED)



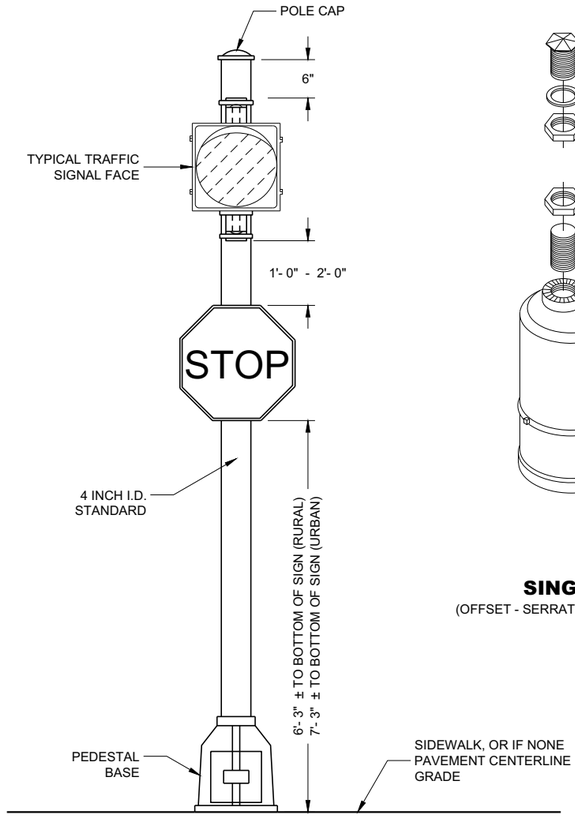
SIGNAL FACE MOUNTING DETAILS



PEDESTRIAN PUSH BUTTON TYPICAL MOUNTING



PEDESTRIAN FACE STANDARD - 10 FT.
(WALK - DON'T WALK)



STANDARD FLASHER
10 FOOT, 13 FOOT OR 15 FOOT AS REQUIRED

GENERAL NOTES

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

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS, UNLESS APPROVED BY THE ENGINEER IN THE FIELD.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIFICATIONS.

POLYCARBONATE SIGNAL FACE MOUNTING BRACKETS SHALL BE USED UNLESS ORNAMENTAL POLE CLAMPS ARE SPECIFIED.

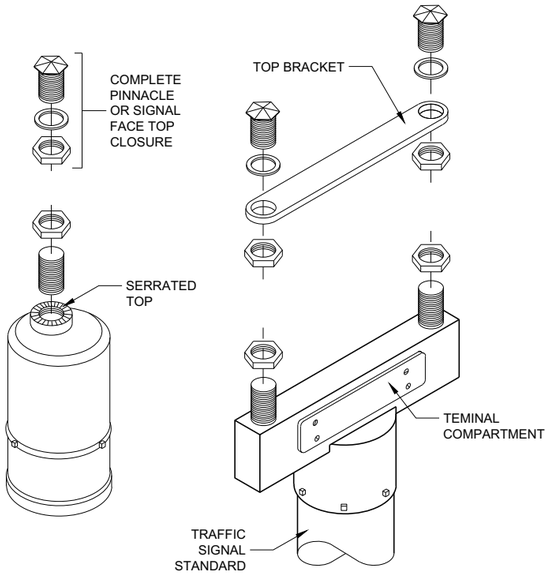
LENGTH OF TRAFFIC STANDARDS SHALL BE AS SHOWN ON THE PLANS.

MOUNTINGS AND BRACKETS SHALL BE AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIAL PROVISIONS (BY THE REGION TRAFFIC ENGINEER).

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(1) USE 1 ½" ID NIPPLES ZINC-COATED RIGID METAL CONDUIT, LONG ENOUGH TO ACCOMMODATE FULL DEPTH THREADING INTO THE HEAD MOUNTING LOCK NUT IN ORDER TO TIGHTEN THE FACE, BUT THAT DO NOT INTERFERE WITH REFLECTOR CLOSURE. THREAD THE NIPPLE INTO THE MOUNTING BRACKET/ELBOW UNTIL TIGHT. USE APPROVED PINNACLE TYPE HARDWARE FROM A DEPARTMENT APPROVED MANUFACTURER TO CLOSE THE UNUSED 1 ½" OPENING IN SIGNAL FACESAND BRACKET ENDS.



SINGLE
(OFFSET - SERRATED MOUNTING)

DOUBLE
(SERRATED MOUNTING)

SLIPFITTERS

TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

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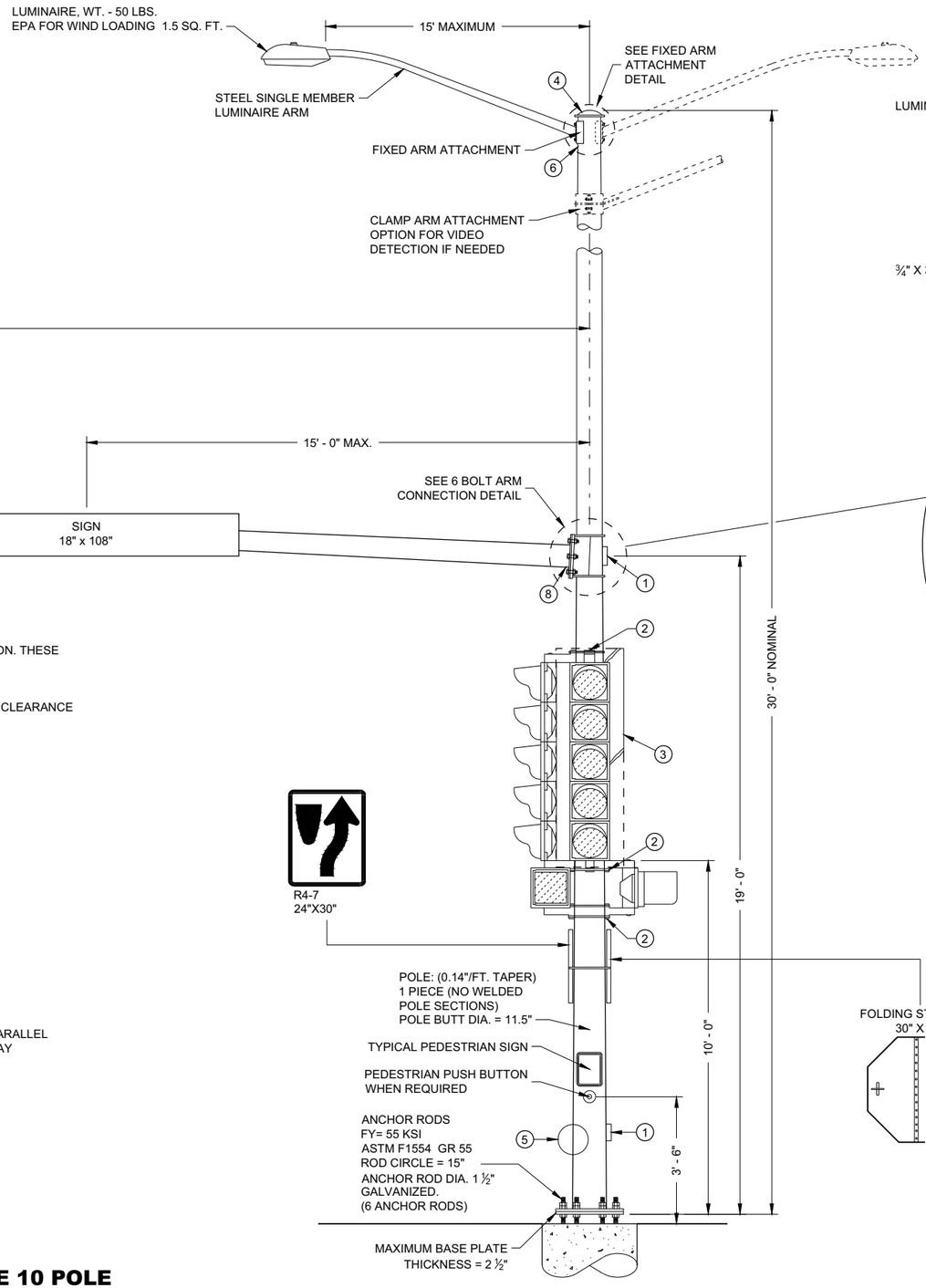
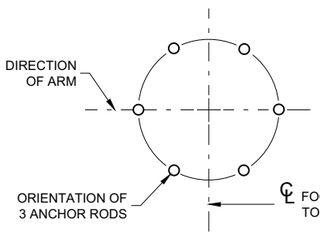
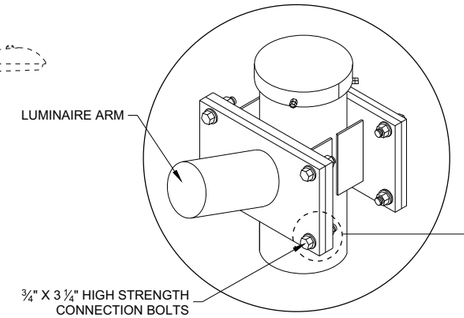


* DIMENSIONS SHOWN ARE FOR POLE/ARM DESIGN ONLY, NOT FOR FIELD LOCATION. THESE DIMENSIONS SHALL NOT BE DECREASED.

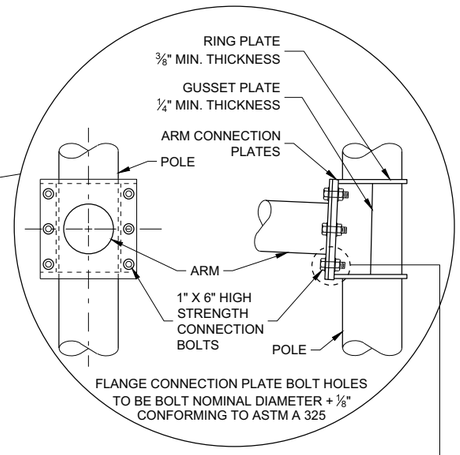
** SIGNALS MAY BE ADJUSTED ±1' - 0" MAXIMUM TO ACCOMMODATE FOR VERTICAL CLEARANCE



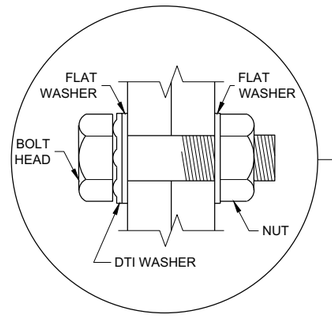
ANCHOR ROD LOCATION



FIXED ARM ATTACHMENT DETAIL



6 BOLT ARM CONNECTION DETAIL



RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 10 POLE
15' - 30' MONOTUBE ARM
(MAXIMUM LOAD)

TYPE 10 POLE
15' - 30' MONOTUBE ARM

STATE OF WISCONSIN
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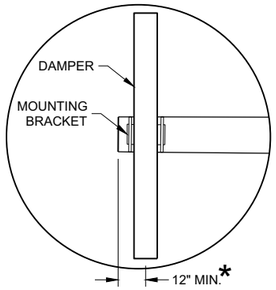
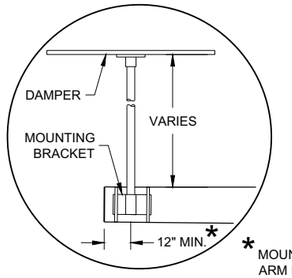
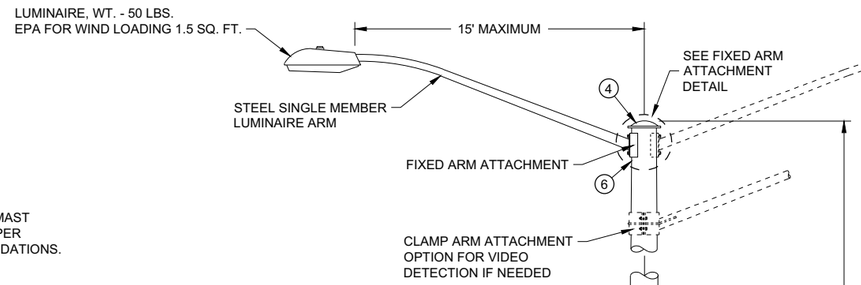


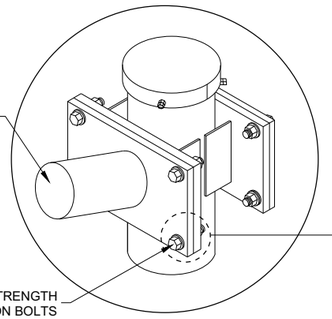
DUMBBELL VIBRATION DAMPER



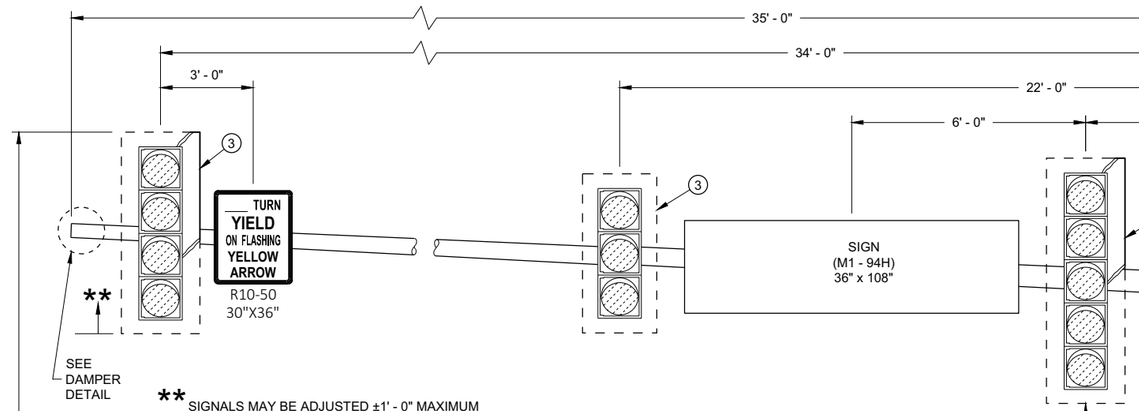
FLAT VIBRATION DAMPER

* MOUNT AS CLOSE TO END OF MAST ARM FOR MAXIMUM DAMPING PER MANUFACTURER'S RECOMMENDATIONS.

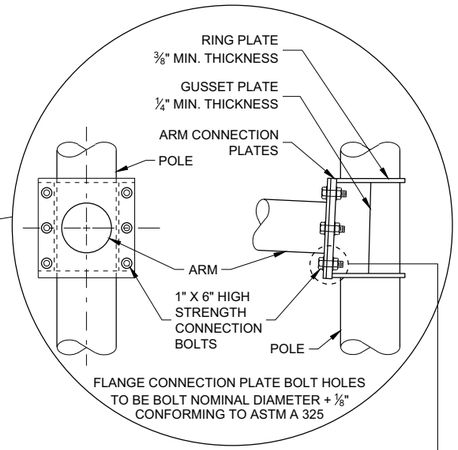




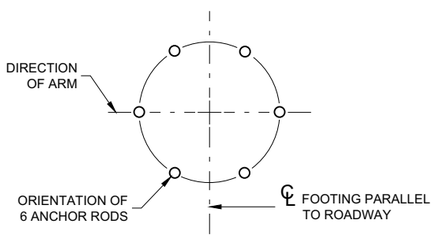
FIXED ARM ATTACHMENT DETAIL



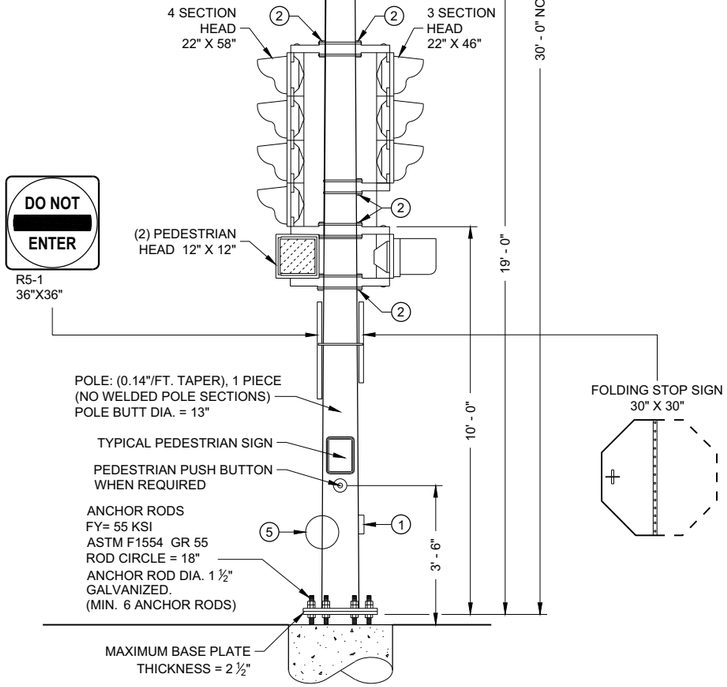
** SIGNALS MAY BE ADJUSTED ±1' - 0" MAXIMUM TO ACCOMMODATE FOR VERTICAL CLEARANCE

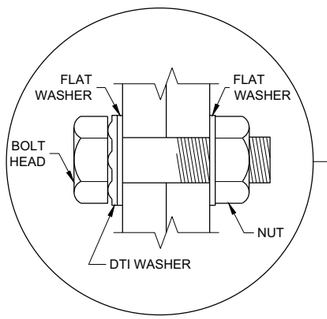


6 BOLT ARM CONNECTION DETAIL



ANCHOR ROD LOCATION





RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 10 SPECIAL POLE
35' MONOTUBE ARM
(MAXIMUM LOAD)

TYPE 10 SPECIAL POLE
35' MONOTUBE ARM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

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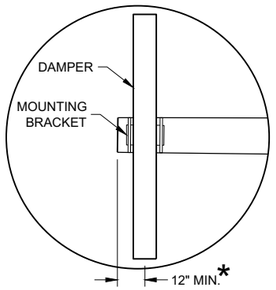
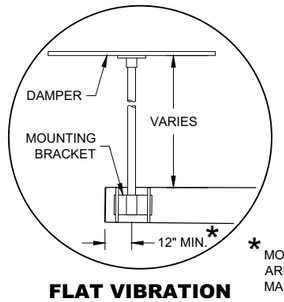
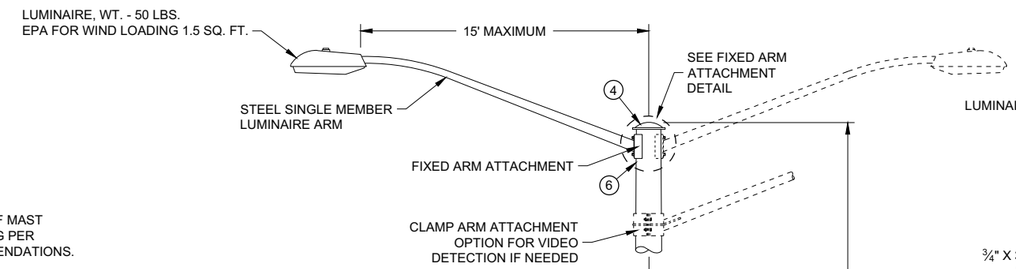


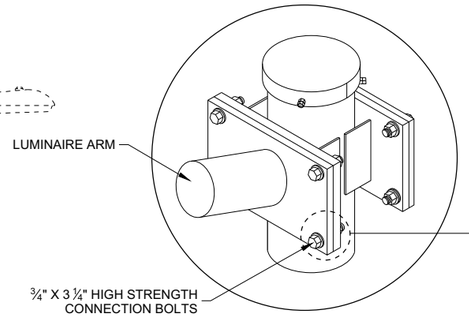
DUMBBELL VIBRATION DAMPER



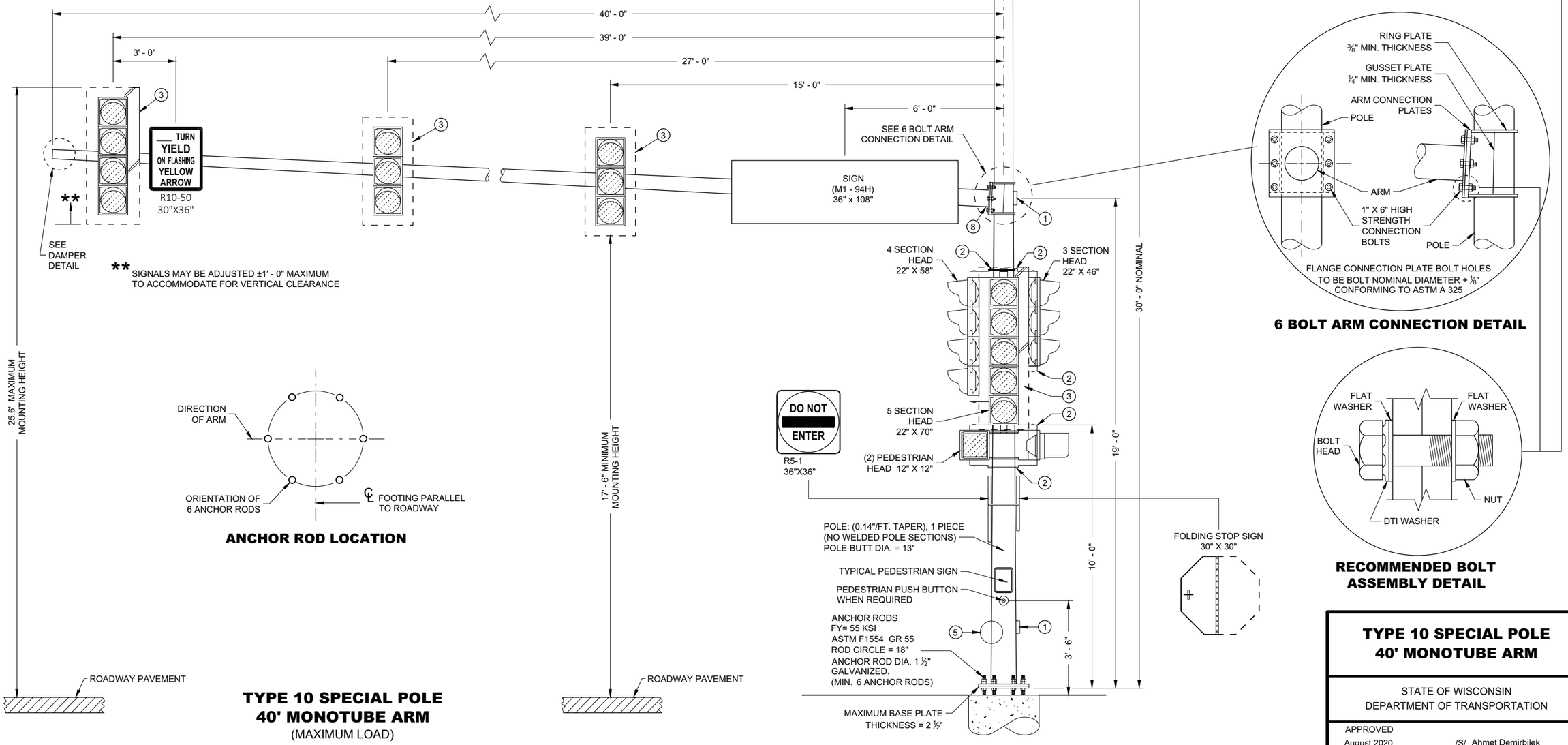
FLAT VIBRATION DAMPER

* MOUNT AS CLOSE TO END OF MAST ARM FOR MAXIMUM DAMPING PER MANUFACTURER'S RECOMMENDATIONS.





FIXED ARM ATTACHMENT DETAIL



** SIGNALS MAY BE ADJUSTED ±1' - 0" MAXIMUM TO ACCOMMODATE FOR VERTICAL CLEARANCE

ANCHOR ROD LOCATION

TYPE 10 SPECIAL POLE
40' MONOTUBE ARM
(MAXIMUM LOAD)

6 BOLT ARM CONNECTION DETAIL

RECOMMENDED BOLT ASSEMBLY DETAIL

TYPE 10 SPECIAL POLE
40' MONOTUBE ARM

STATE OF WISCONSIN
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August 2020
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GENERAL NOTES

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 ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLTS.

(2) SIGNAL MOUNTING BRACKETS FOR POLE MOUNTING, MOUNT WITH CAP SCREW AND BANDING (SEE SPECIFICATION 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 ¼" X ¾" - 20 TPI STAINLESS STEEL HEX HEAD BOLT.

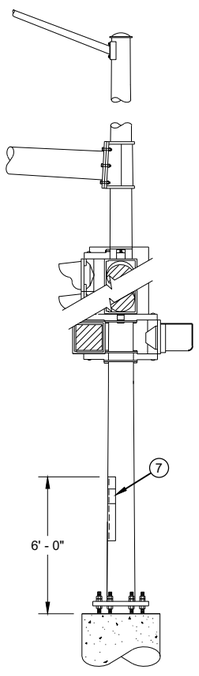
(6) FACTORY WELDED "J" HOOK FOR STRAIN RELIEF FOR POLE LUMINAIRE WIRE.

(7) INSTALL STRUCTURAL IDENTIFICATION PLAQUES.

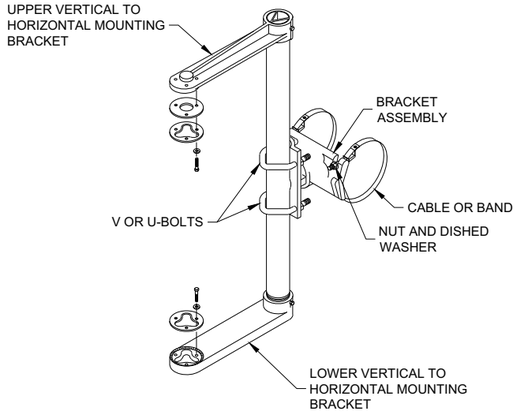
STRUCTURAL IDENTIFICATION PLAQUES SHALL BE PLACED ON THE POLES IN THE SAME DIRECTION AS THE ARM.

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.

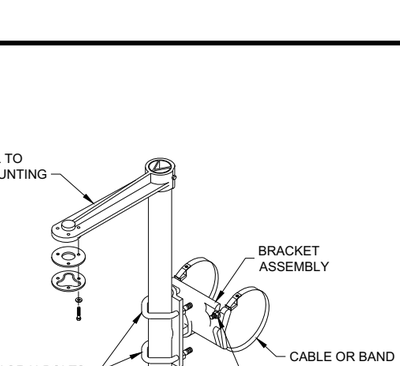


STRUCTURAL IDENTIFICATION PLAQUE PLACEMENT



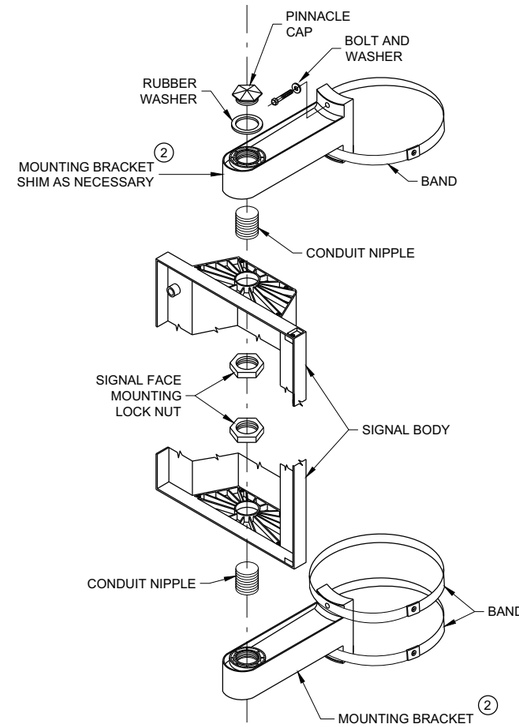
SIGNAL FACE MOUNTING BRACKET DETAIL FOR MONOTUBE ARM

(MOUNT PER MANFACTURER'S RECOMMENDATION)

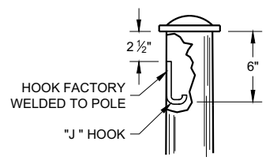


TYPICAL GROUNDING (5) CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



SIGNAL FACE VERTICAL MOUNTING DETAIL



TYPICAL "J" HOOK (6) WIRE SUPPORT

GENERAL NOTES AND HARDWARE FOR TYPES 9,10, 9/10 SPECIAL, 12 AND 13 POLES WITH MONOTUBE ARMS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL ENGINEER

FHWA

SDD 09E08 - 09k

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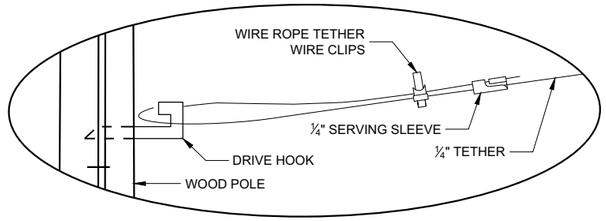
MINIMUM POLE LENGTHS	POLE BURIAL DEPTHS
25'	5'
30'	6'
35'	7'
40'	8'
45'	9'

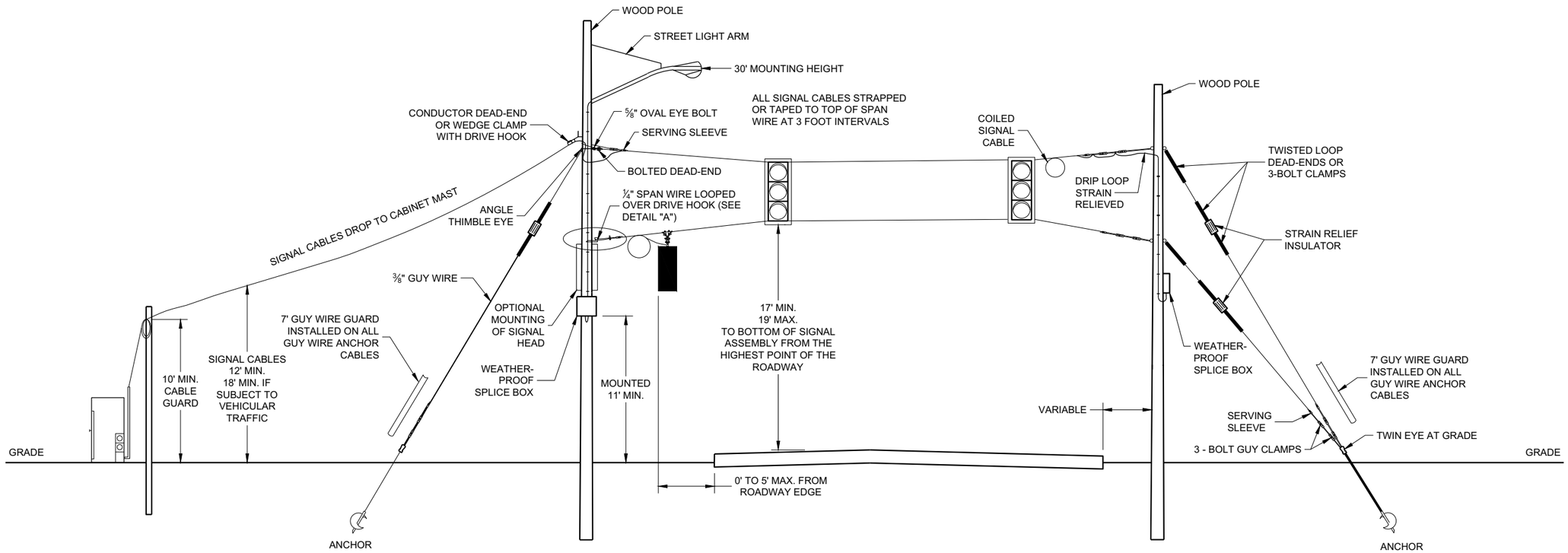


DETAIL "A"

GENERAL NOTES

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.
2. SIGNAL FACES:
   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.
3. SPAN WIRE:
   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.



SPAN WIRE
TEMPORARY SIGNALS

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015 — DATE
/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI

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SDD09G01 - 04a

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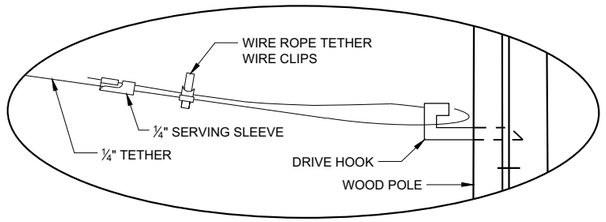
SDD09G01 - 04a

MINIMUM POLE LENGTHS	CLASS	POLE BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'



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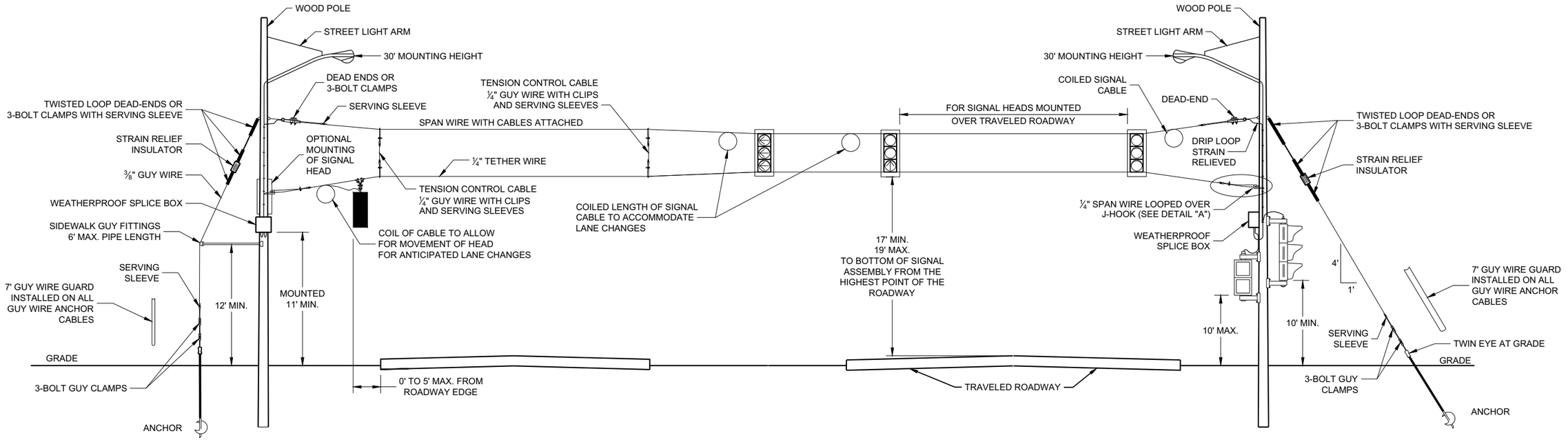

SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015
DATE

/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI

FHWA

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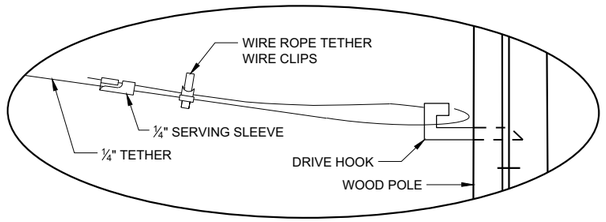
SDD09G01 - 04b

MINIMUM POLE LENGTHS	CLASS	POLE BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'



DETAIL "A"

GENERAL NOTES

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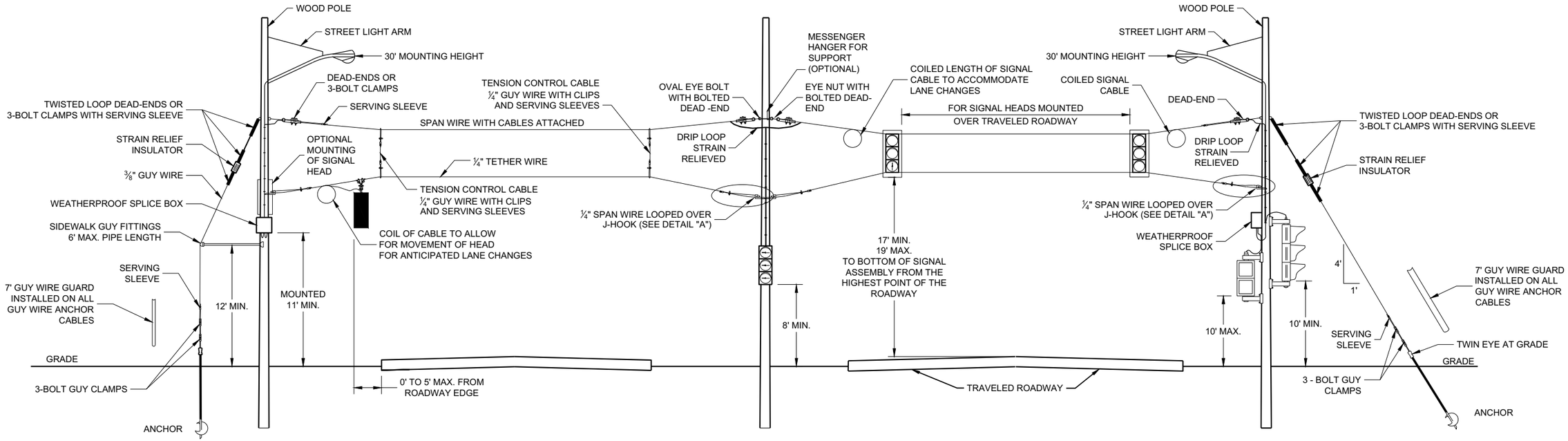

SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015
DATE
/S/ Ahmet Demerbilek
STATE ELECTRICAL ENGI

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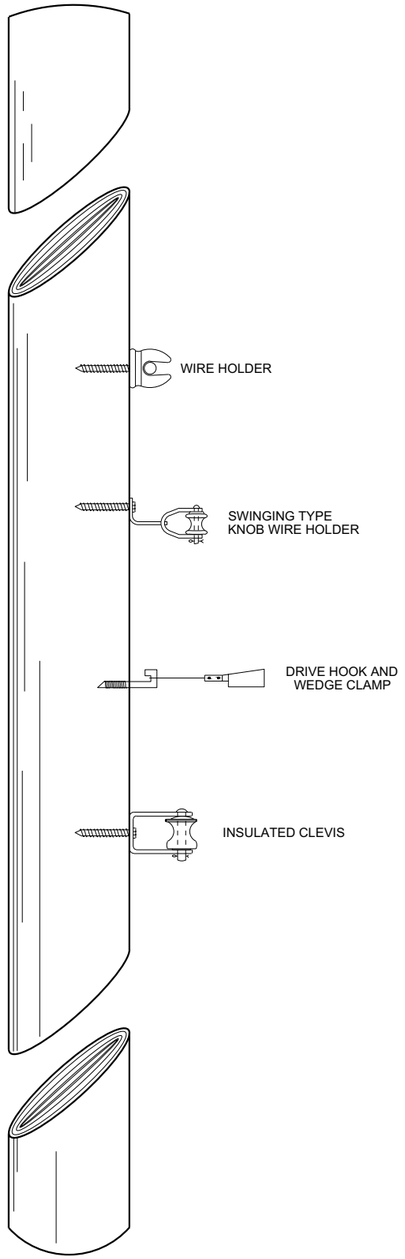

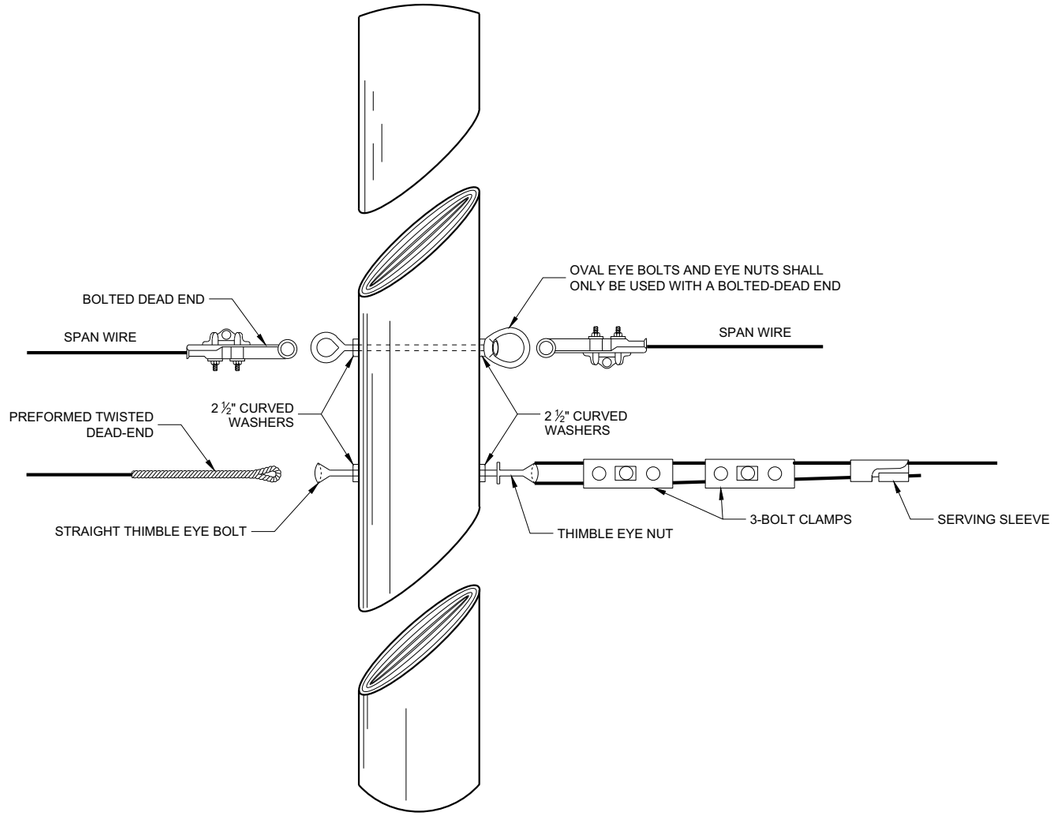

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SDD 09G01 - 4d

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

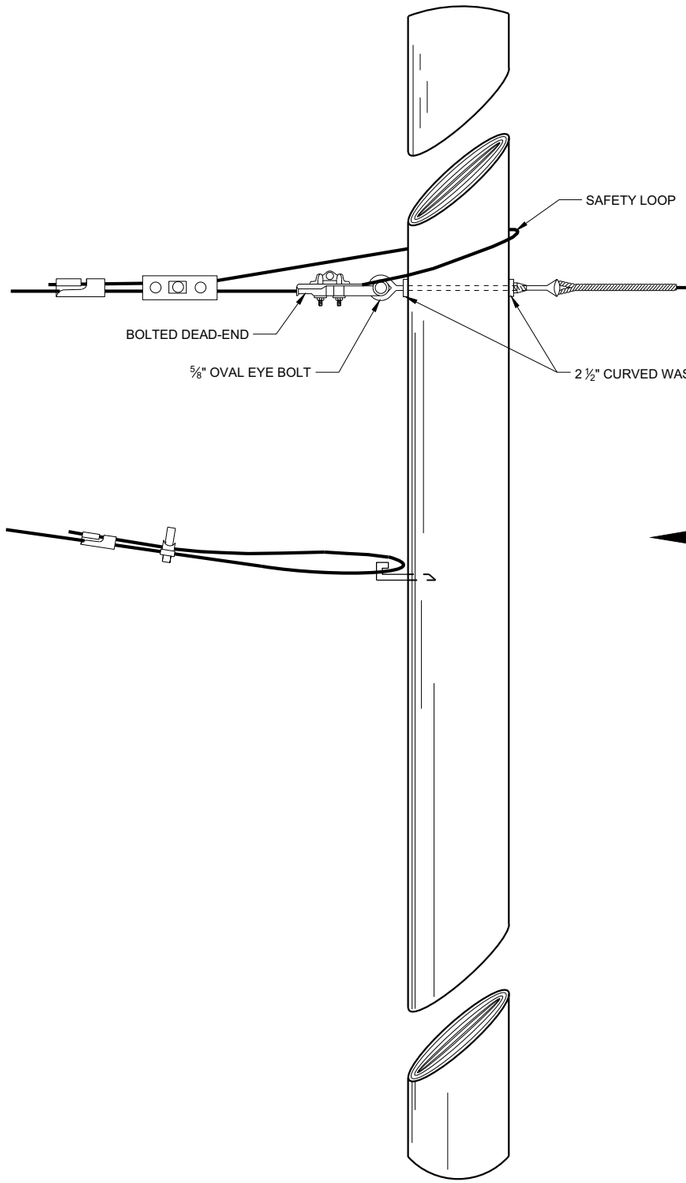
June 2015
DATE

/S/ Ahmet Demerbilek
ROADWAY STANDARDS DEVE ENGINEER

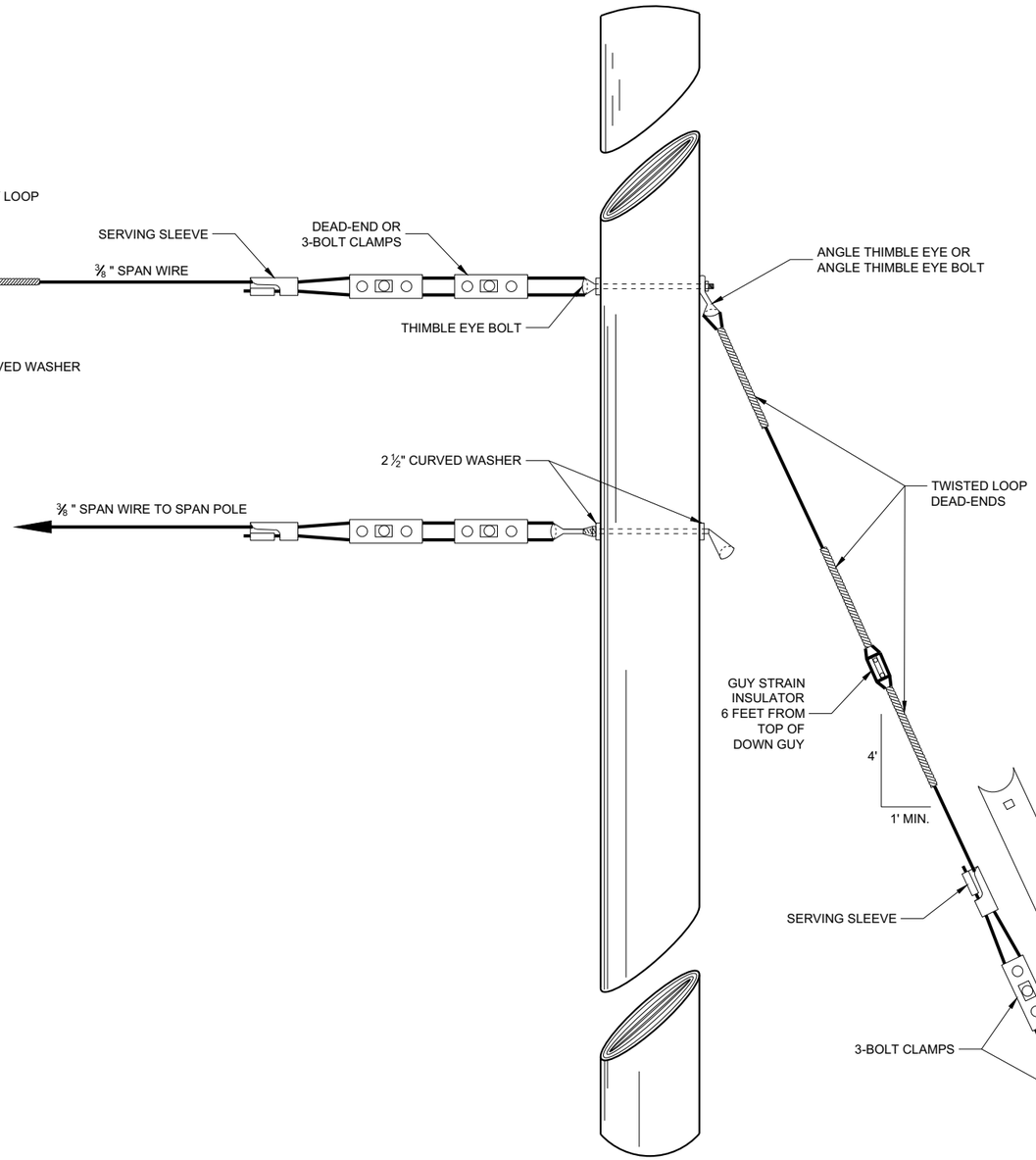
FHWA

GENERAL NOTES

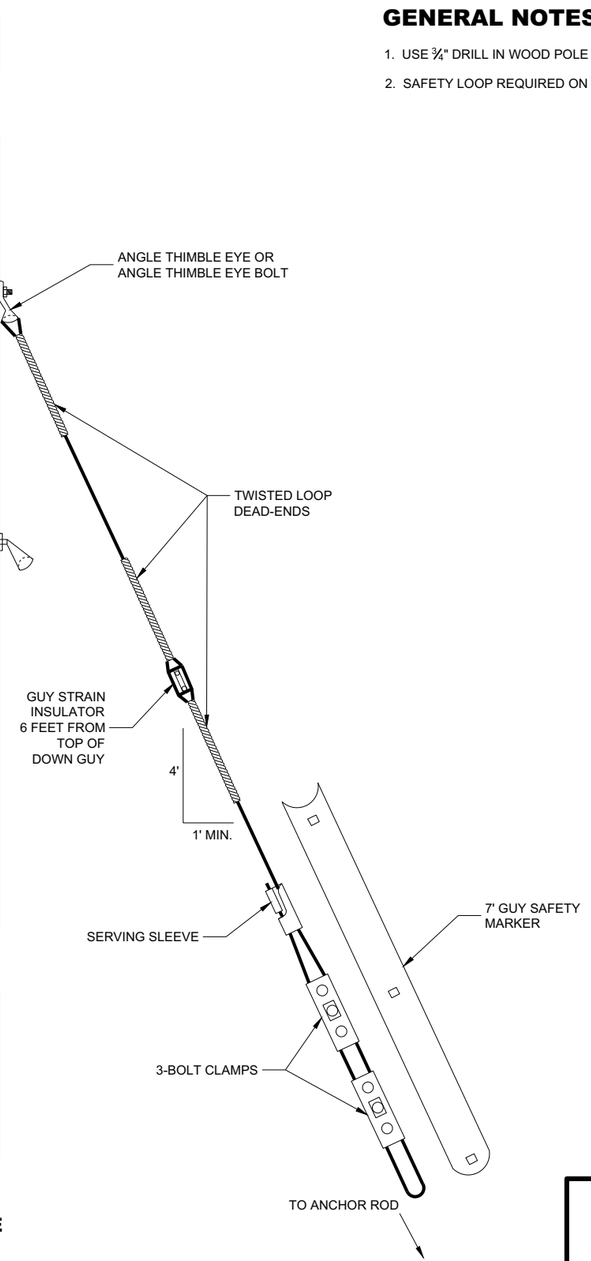
1. USE ¾" DRILL IN WOOD POLE TO PROVIDE FOR ⅝" BOLTS.
2. SAFETY LOOP REQUIRED ON EACH END OF ALL SPAN WIRES.



SPAN WIRE POLE



GUY POLE



TYPICAL DEAD-ENDINGS OR GUYING

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015 — DATE
/S/ Ahmet Demerbilek — ROADWAY STANDARDS DEVE ENGINEER

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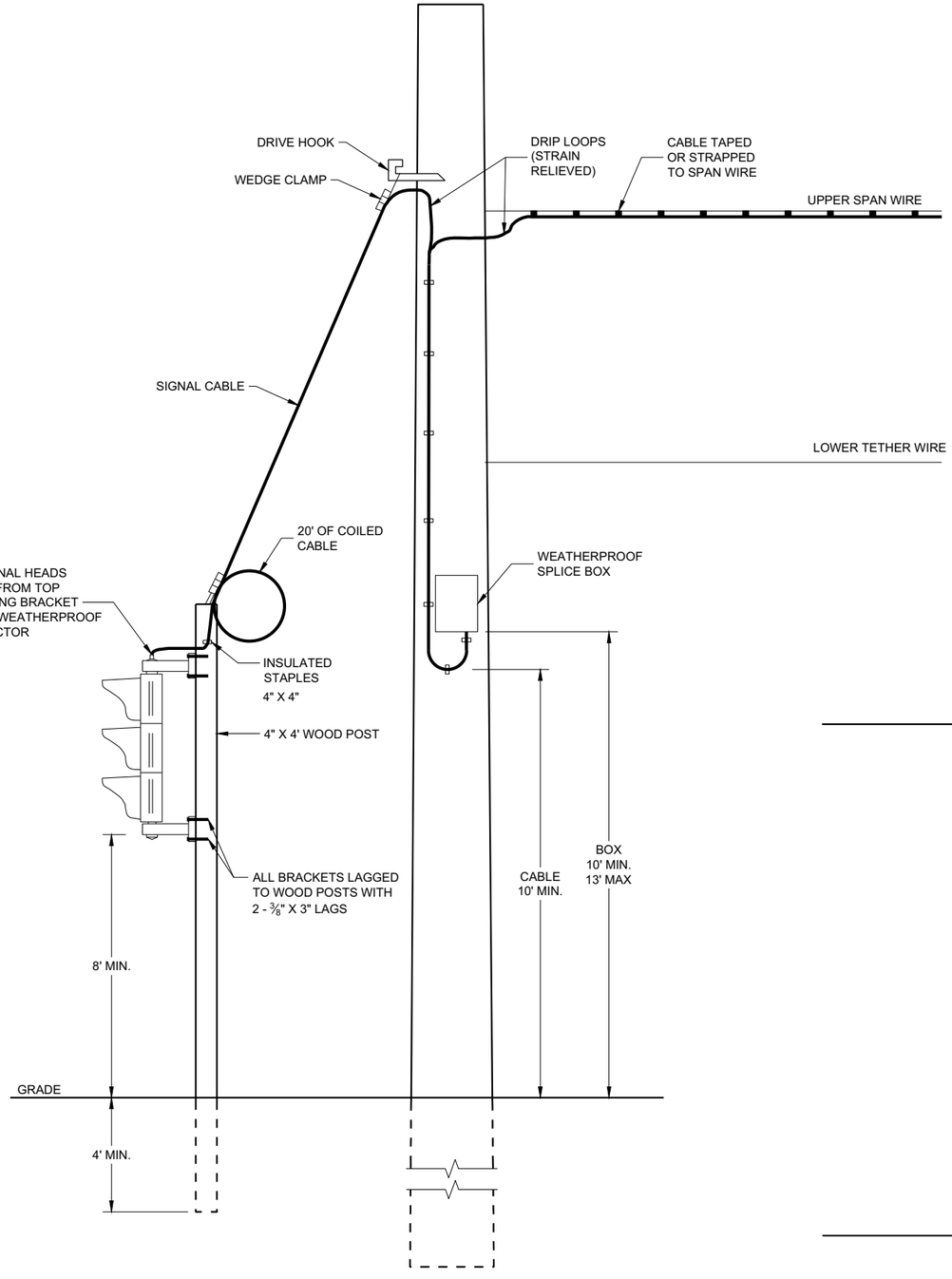
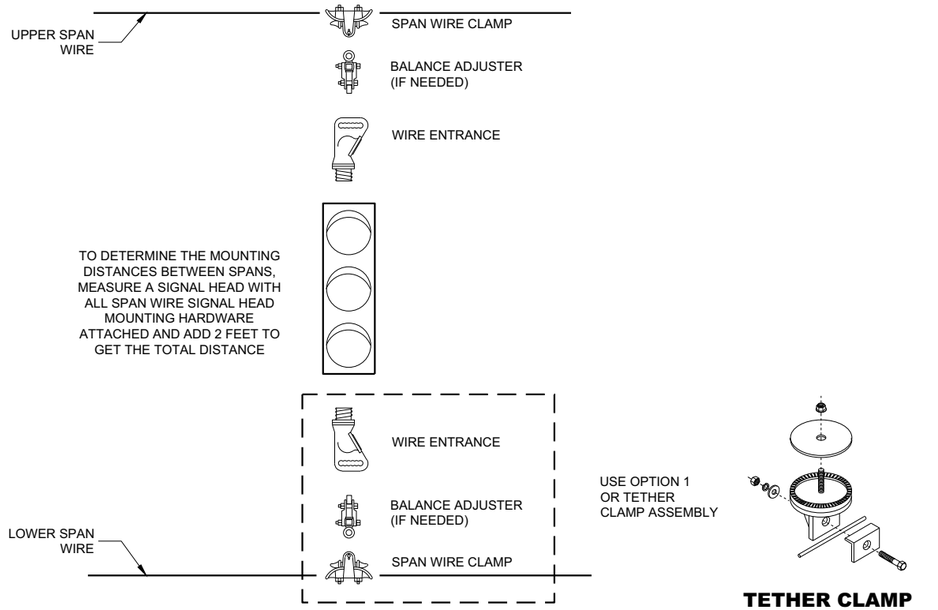
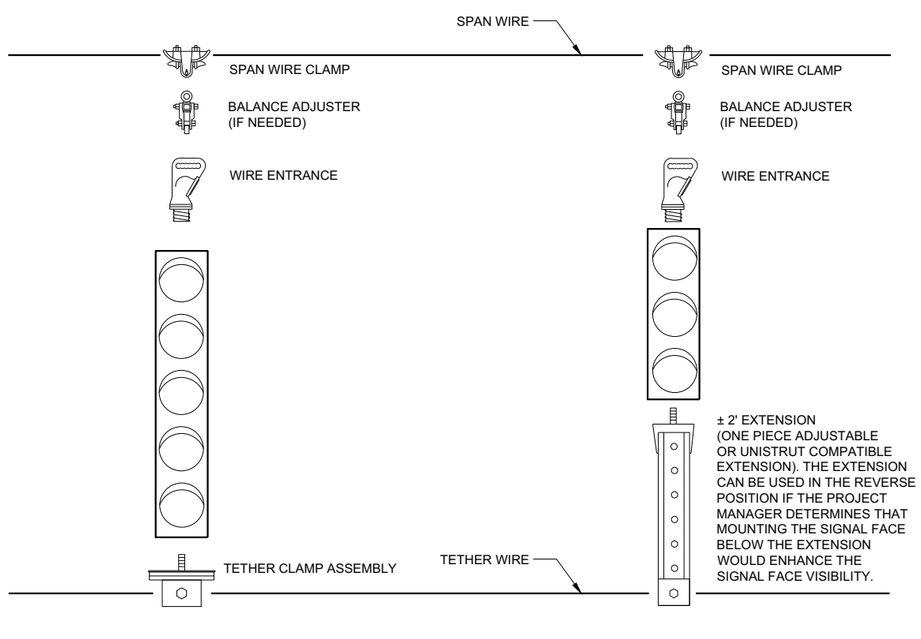
SDD 09G01 - 4e



TYPICAL DROP TO TEMPORARY MOVEABLE SIGNAL



TYPICAL SPAN WIRE MOUNTING HARDWARE



5 SECTION VERTICAL WITH 3 SECTION VERTICAL ON ONE SPAN WIRE

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2015 — DATE
/S/ Ahmet Demerbilek — ROADWAY STANDARDS DEVE ENGINEER

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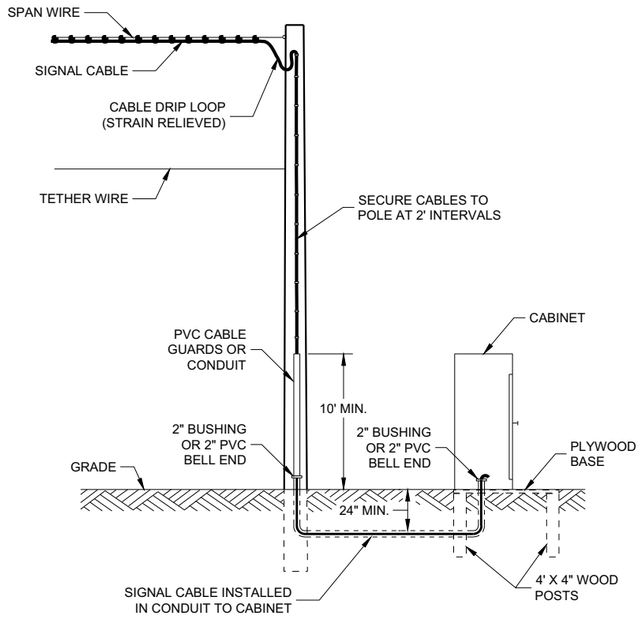
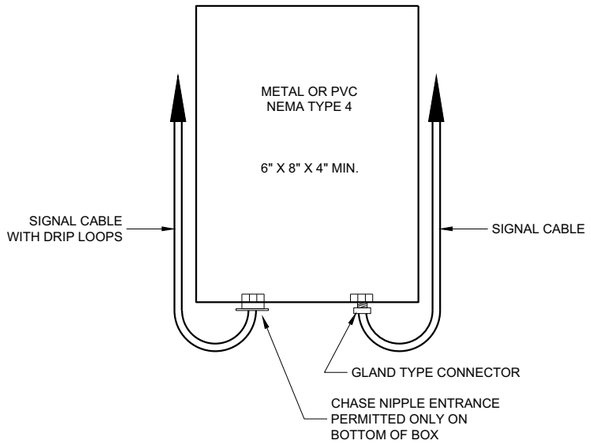
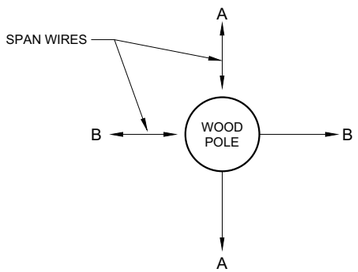
SDD 09G01 - 4f





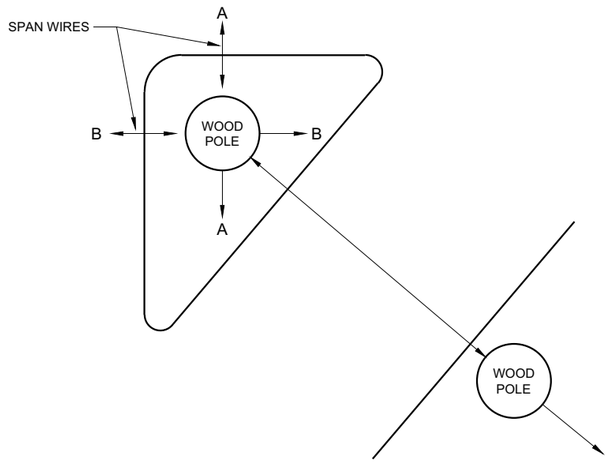
SPLICE BOX

TYPICAL SKID TYPE TEMPORARY

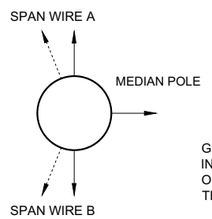


ALL DOWN OR SIDEWALK GUYS
SHALL BE INSTALLED IN THE
OPOSITE DIRECTION OF THE
STRAIN OF THE SPAN WIRE

CORNER POLES



ISLAND POLES



GUY AWAY FROM
INTERSECTION OR IN
OPPOSITE DIRECTION OF
THE SPAN LOADING

MEDIAN POLES

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2015
DATE

/S/ Ahmet Demerbilek
ROADWAY STANDARDS DEVE
ENGINEER

FHWA

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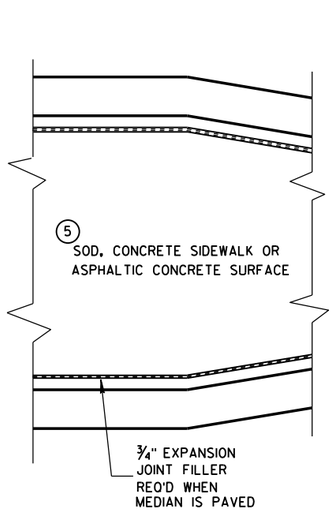
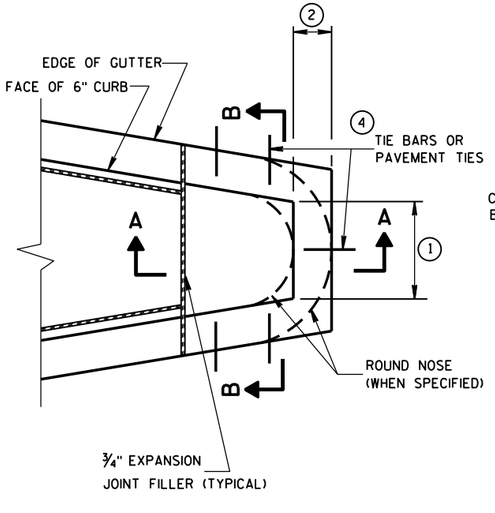
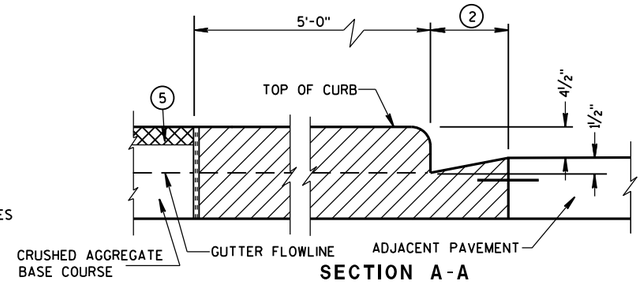
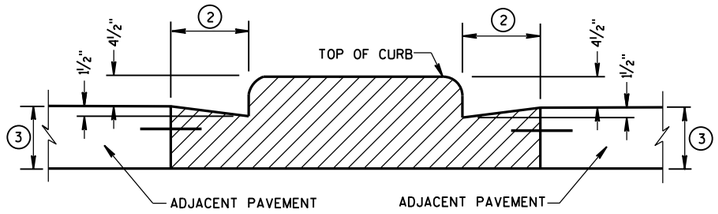
SDD 09G01 - 4g







SECTION A-A



SECTION B-B

CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

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

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

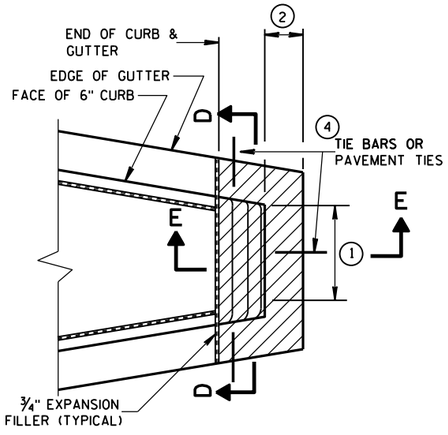
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

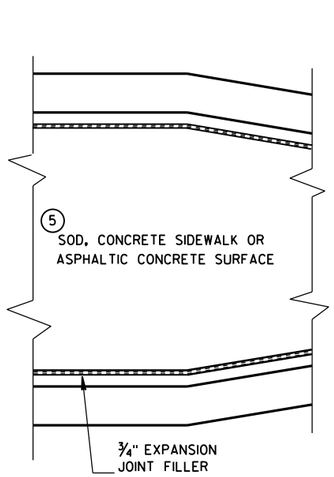
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

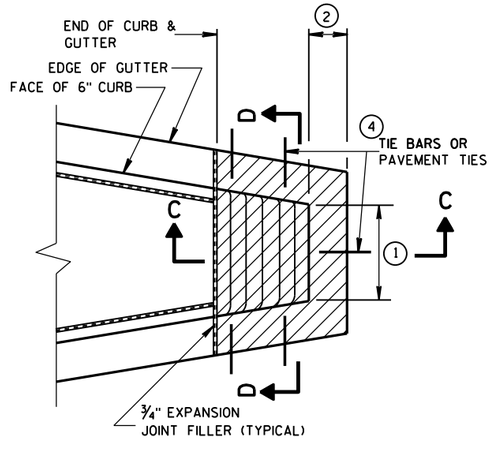
(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

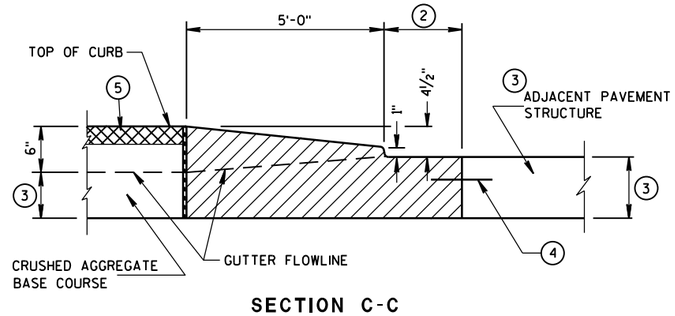
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.



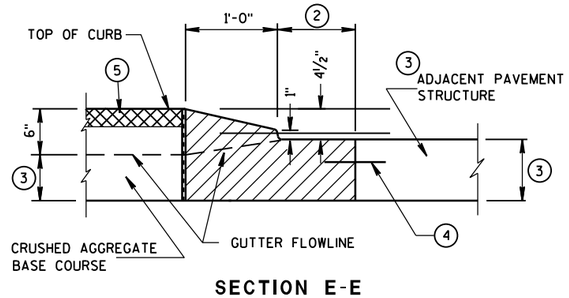




CONCRETE MEDIAN SLOPED NOSE TYPE 1

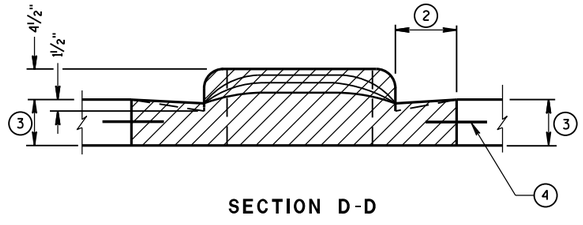


SECTION C-C



SECTION E-E

CONCRETE MEDIAN SLOPED NOSE TYPE 2



SECTION D-D

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/8/2006
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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S.D.D. 11 B 2-2

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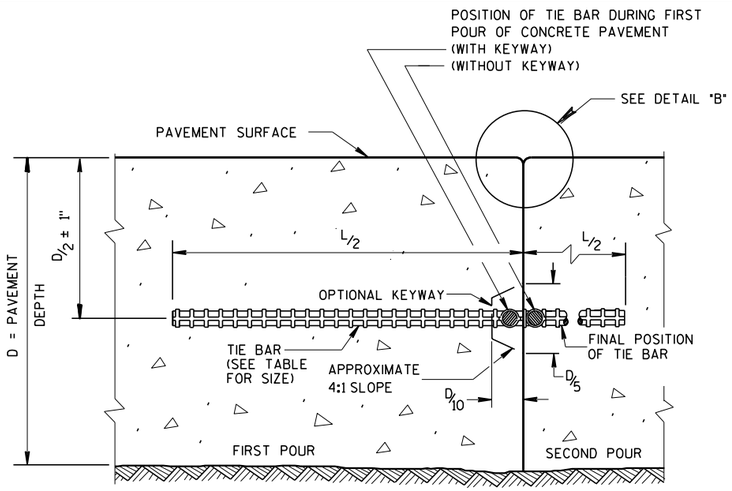
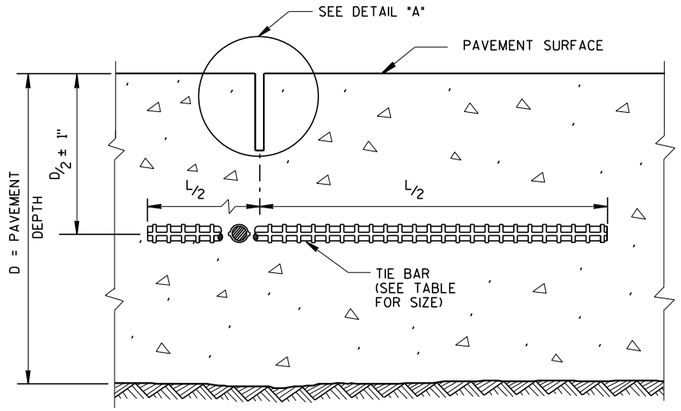
S.D.D. 11 B 2-2



CONSTRUCTION JOINT



SAWED JOINT

GENERAL NOTES

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

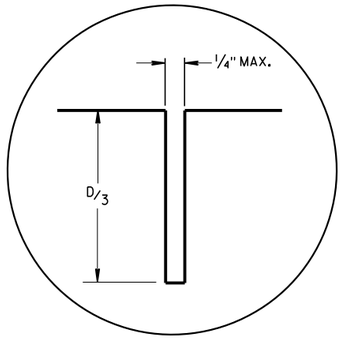
CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

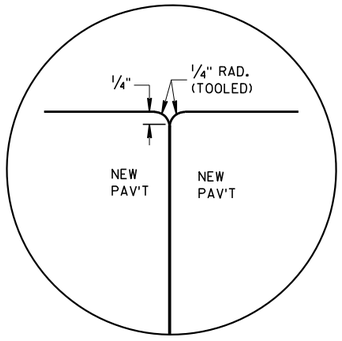
(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

PLAN VIEW

SECTION A-A
LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT



DETAIL "A"



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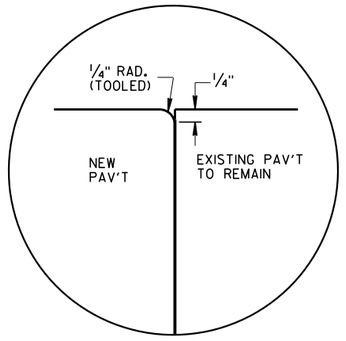


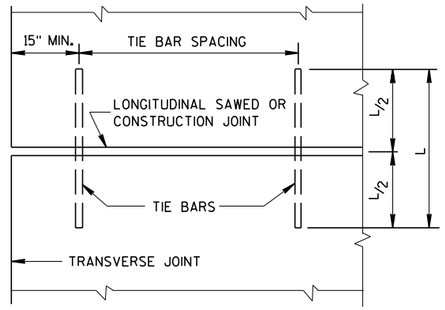
DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 — DATE
/S/ Peter Kemp — PAVEMENT SUPE
FHWA

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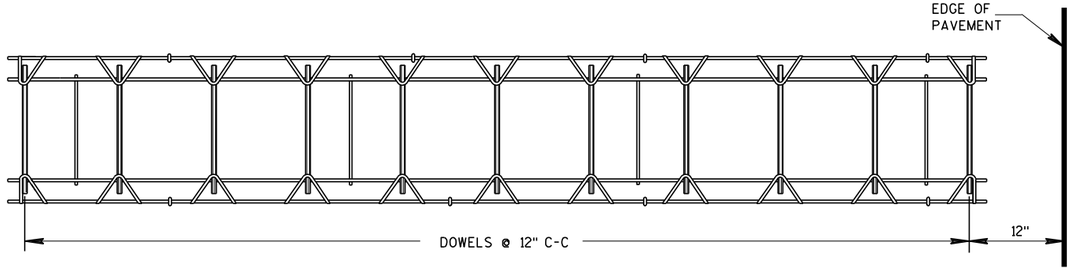
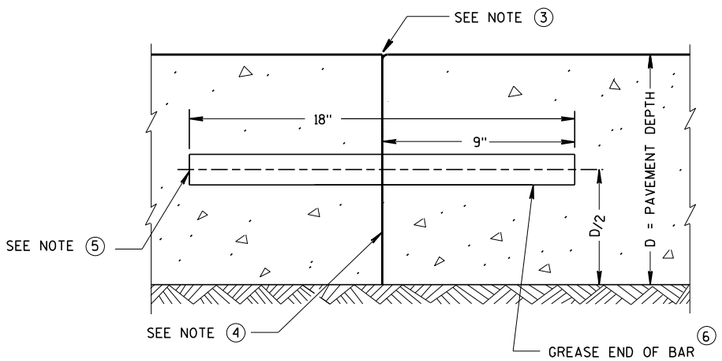
S.D.D. 13 C 1-19



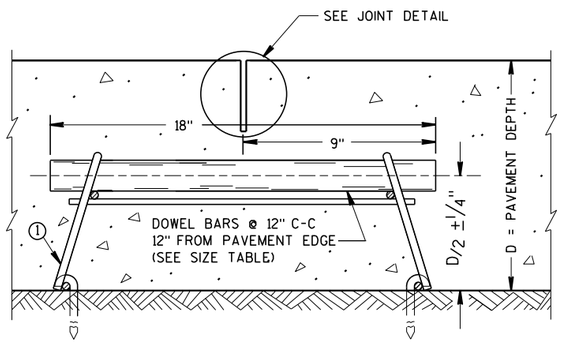
PLAN VIEW

SIDE VIEW

CONTRACTION JOINT DOWEL ASSEMBLY ①



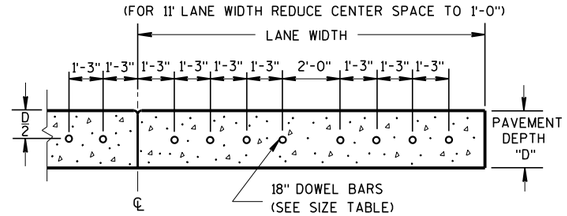
TRANSVERSE CONSTRUCTION JOINT



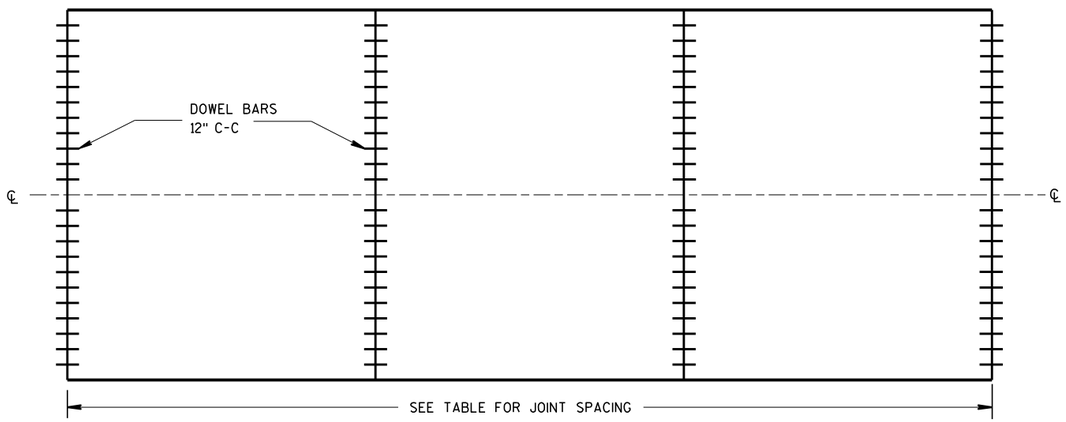
DOWELED CONTRACTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 ¼"	15'
9", 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'



DRILLED DOWEL BAR CONSTRUCTION JOINT ⑦



CONTRACTION JOINT LOCATIONS

GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE LONGITUDINAL JOINT AND THE FREE EDGE OF PAVEMENT.

CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

① OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.

② SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.

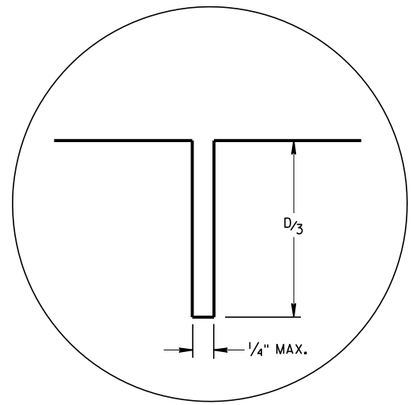
③ FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A ¼-INCH RADIUS AT FORMED JOINTS.

④ PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.

⑤ INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO *DRILLED DOWEL BAR CONSTRUCTION JOINT* DETAIL.

⑥ APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

⑦ ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS ⅛-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.



JOINT DETAIL

URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUP

FHWA

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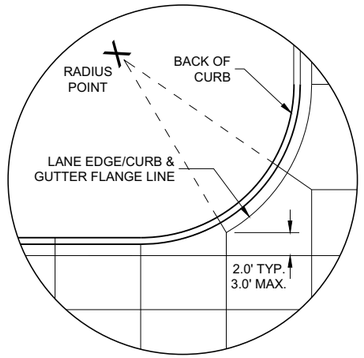
S.D.D. 13 C 13-9



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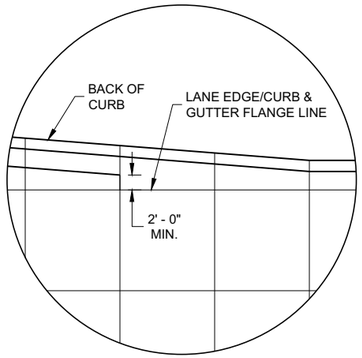

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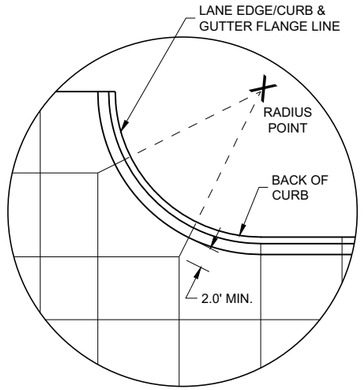

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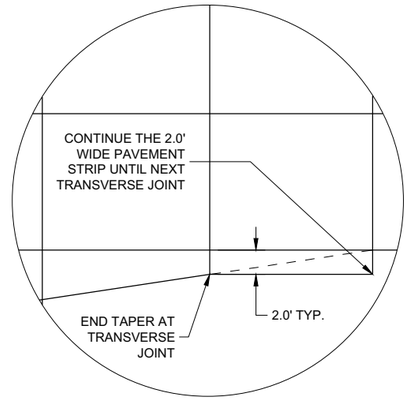


DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

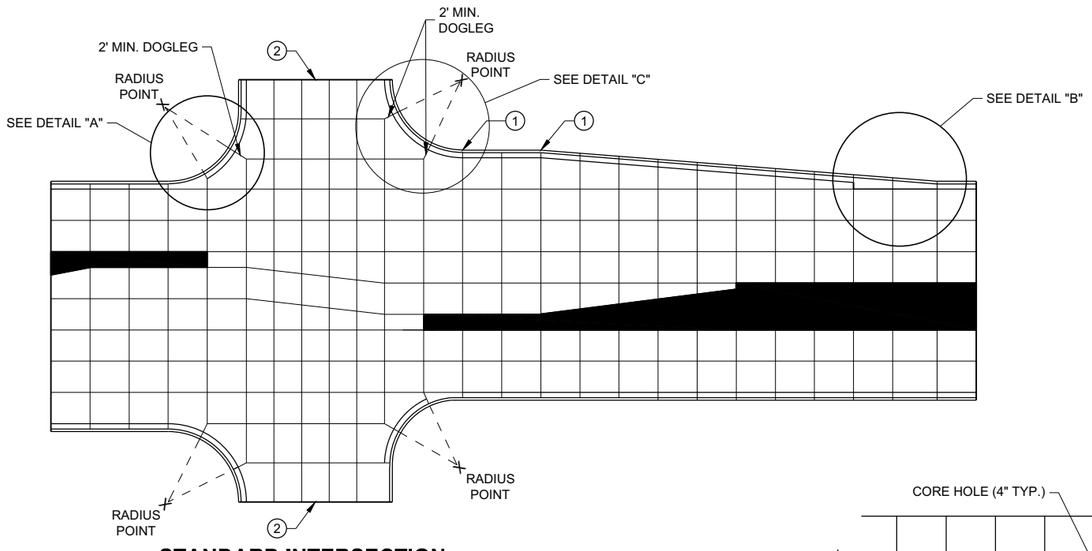
AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.

(2) CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITHEDGE OF RADIUS.

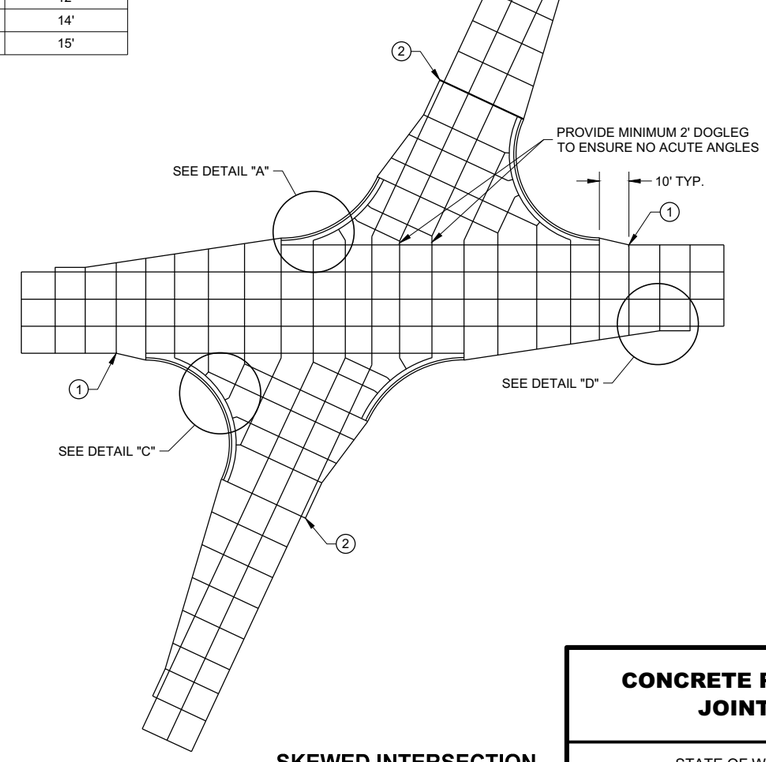
(3) THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



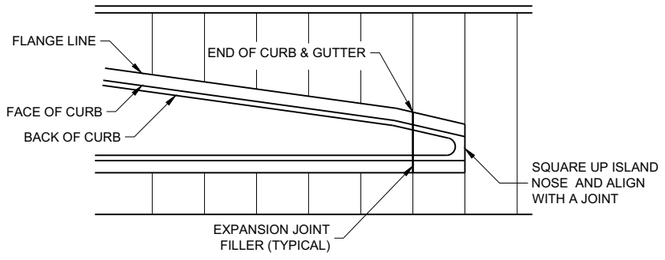
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

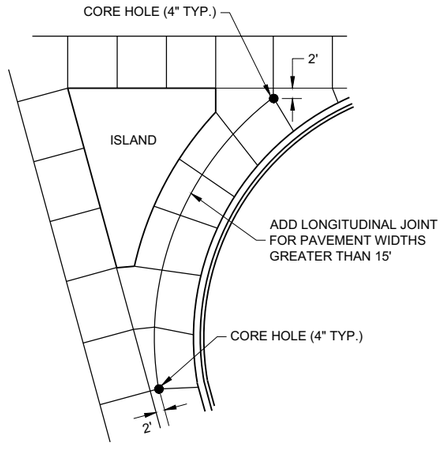
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6 ½"	12'
7", 7 ½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



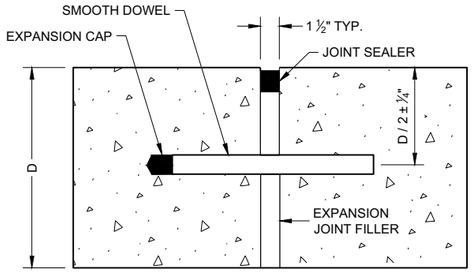
LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

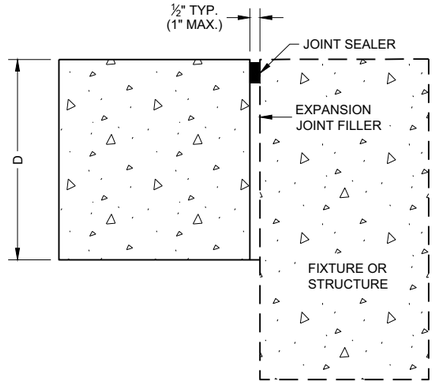
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 13C18 - 07a

SDD 13C18 - 07a



DOWELED TRANSVERSE (1)



UNTIED - LONGITUDINAL

EXPANSION JOINTS

TIE BAR TABLE

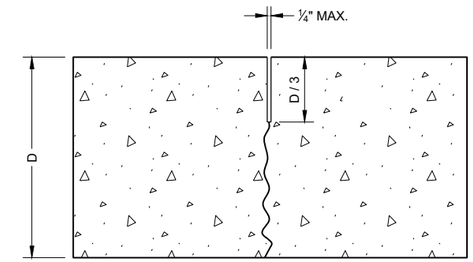
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

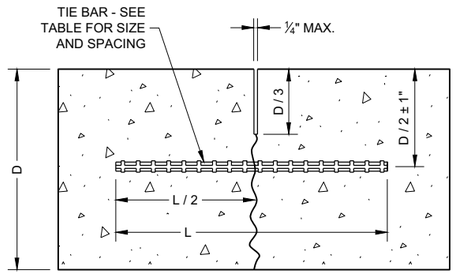
** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

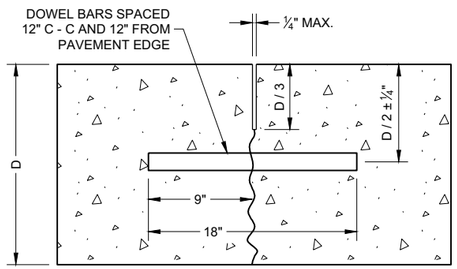
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATETHE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH SDD 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A ¼" RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



UNDOWELED TRANSVERSE

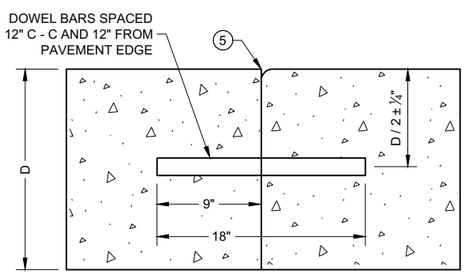


TIED LONGITUDINAL

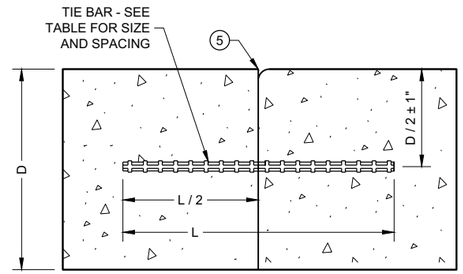


DOWELED TRANSVERSE

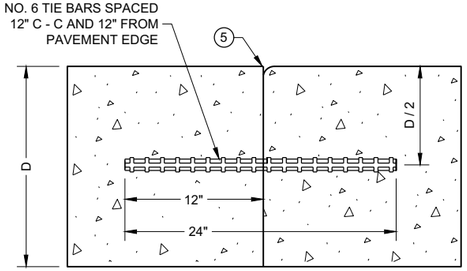
CONTRACTION JOINTS (2)



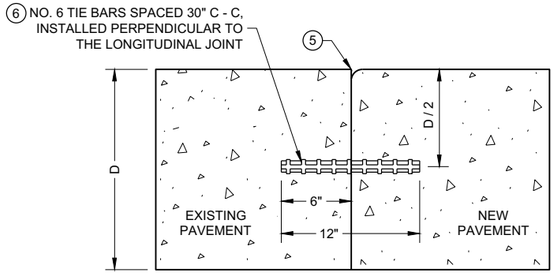
DOWELED TRANSVERSE (3)



TIED LONGITUDINAL



TIED TRANSVERSE (3)
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



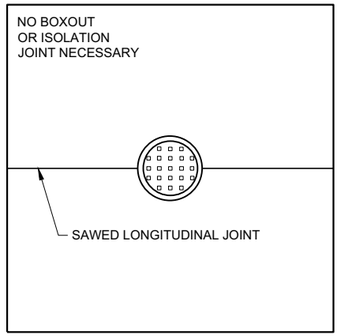
TIED LONGITUDINAL TO EXISTING

CONSTRUCTION JOINTS (4)

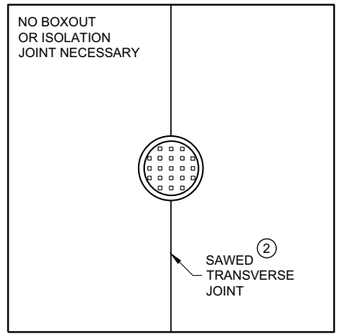
CONCRETE PAVEMENT JOINT TYPES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

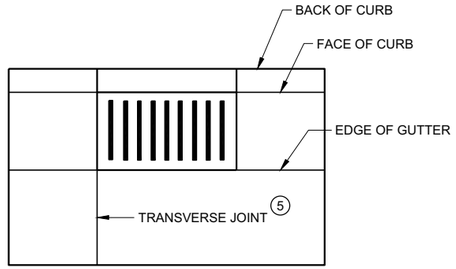
6
SDD 13C18 - 07c



MANHOLE WITH LONGITUDINAL JOINT



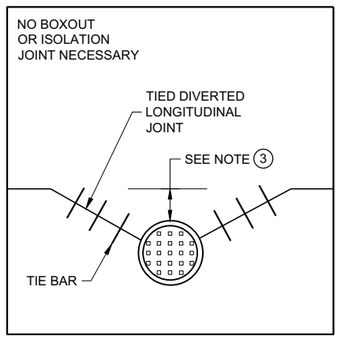
MANHOLE WITH TRANSVERSE JOINT



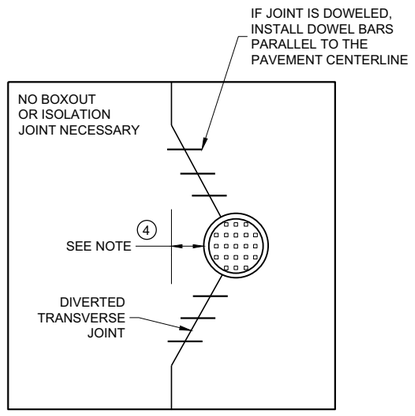
INLET WITH TRANSVERSE JOINT

GENERAL NOTES

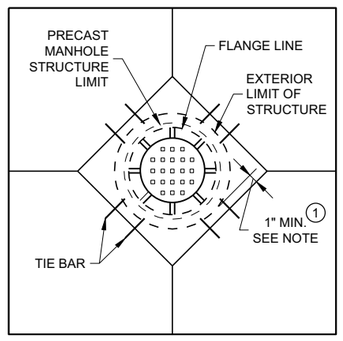
1. USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1 FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
2. ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
3. IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDINAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
4. IF THE DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS LESS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REINFORCEMENT REBAR AROUND THE MANHOLE.
5. ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT



DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Peter Kemp P.E.
PAVEMENT SUPERVIS

FHWA

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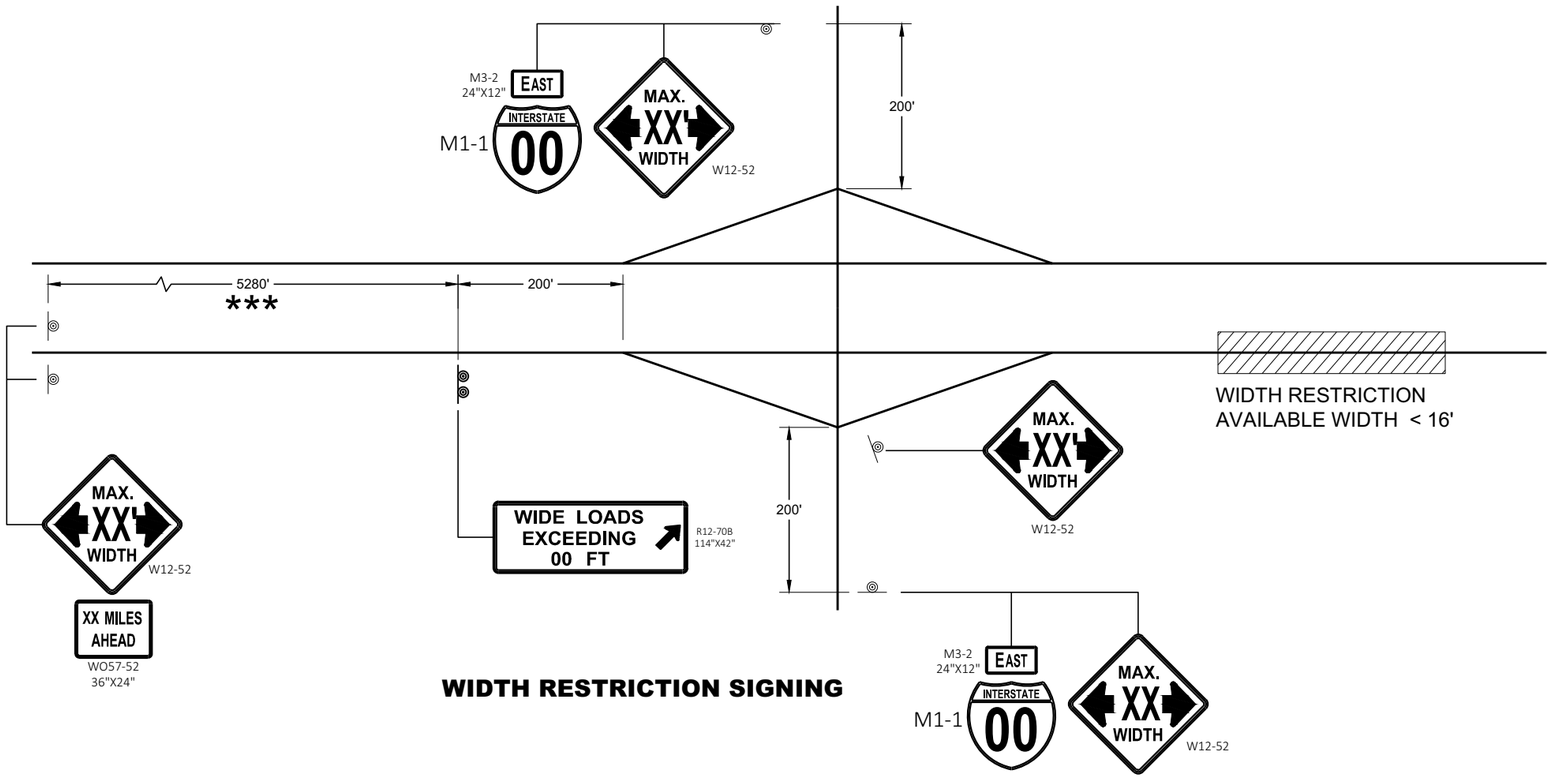
SDD13C18 - 07d



WIDTH RESTRICTION SIGNING

LEGEND

SIGN ON PERMANENT SUPPORT

GENERAL NOTES

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 THE ENGINEER.

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

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

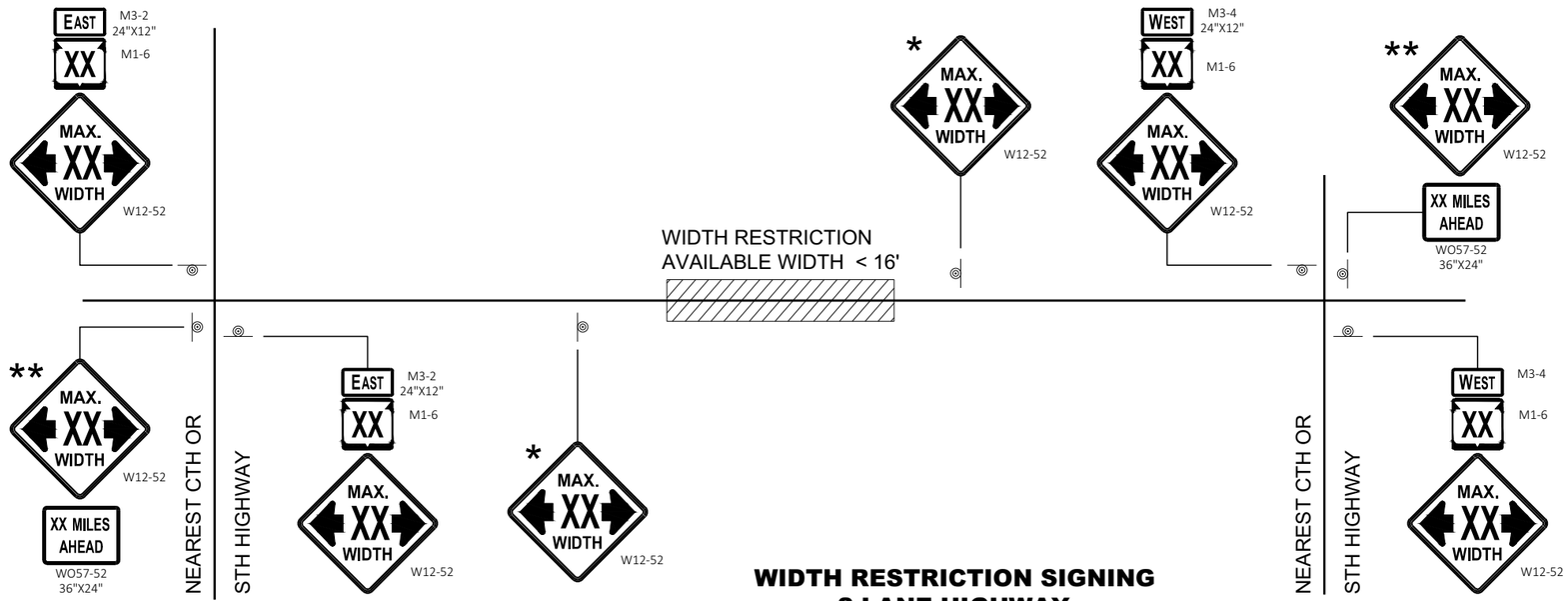
WIDTH ON SIGN TO BE APPROXIMATELY ONE FOOT LESS THAN AVAILABLE WIDTH.

* 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 TYPICAL SPACING.

** SIGN SHALL BE VISIBLE FROM ROADWAY.

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

WIDTH ON SIGN TO BE APPROX. 1 - FOOT LESS THAN AVAILABLE WIDTH



WIDTH RESTRICTION SIGNING
2 LANE HIGHWAY

ADVANCED WIDTH RESTRICTION SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

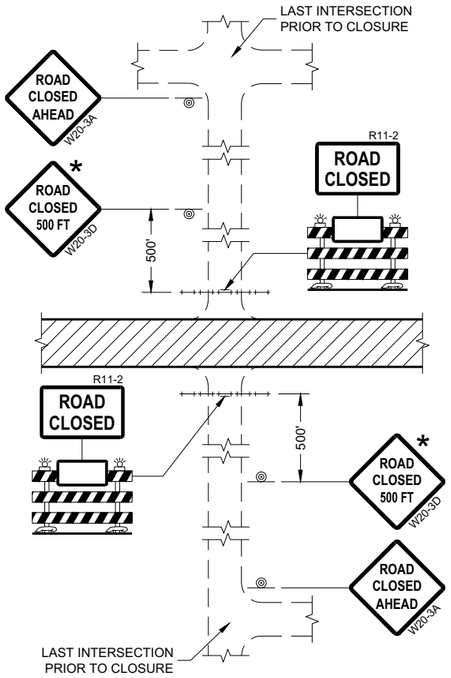
APPROVED
February 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

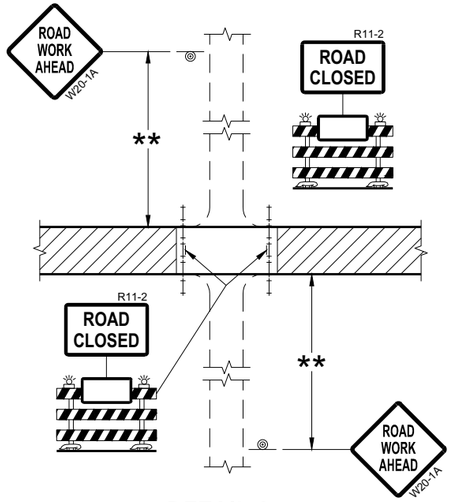
FHWA

6

SDD 15C02 - 08f



DETAIL 1
(NO ACCESS TO PROJECT)



DETAIL 2
(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT)

GENERAL NOTES

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

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

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

BARRICADES 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.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

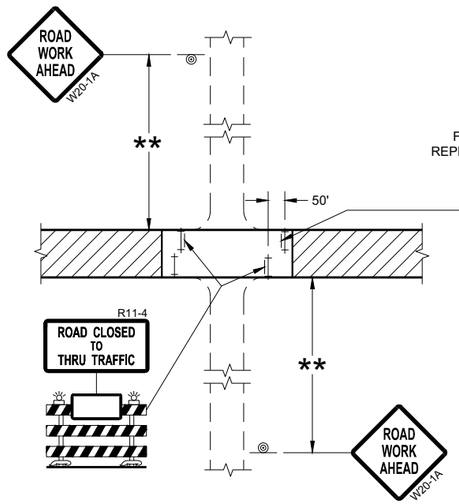
TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

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

* OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FEET OR LESS FROM THE WORK ZONE.

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



DETAIL 3
(PUBLIC CROSS-TRAFFIC MAINTAINED.
CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

DETAIL 4
(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

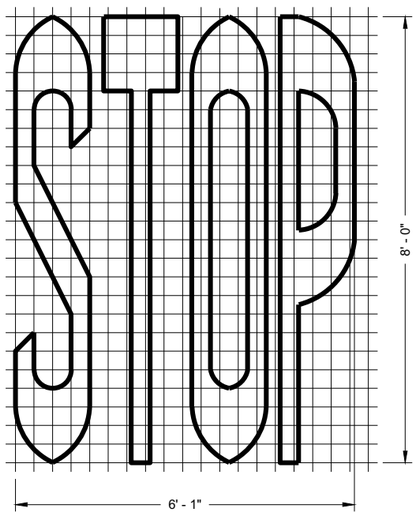
/S/ Andrew Heidtke
WORK ZONE ENGINEE

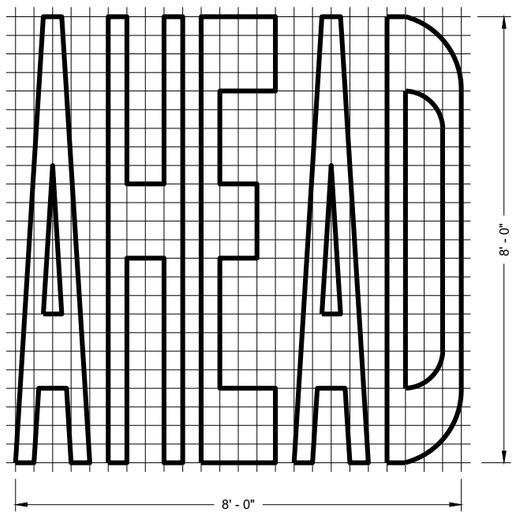
FHWA

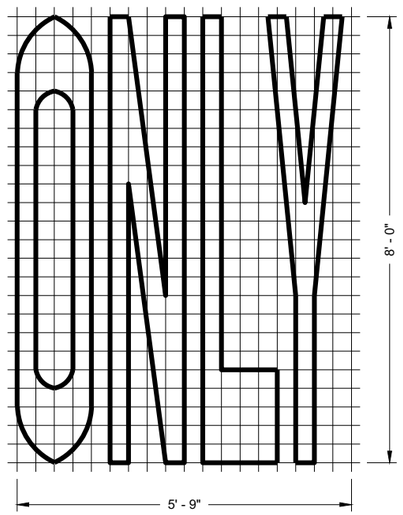
6

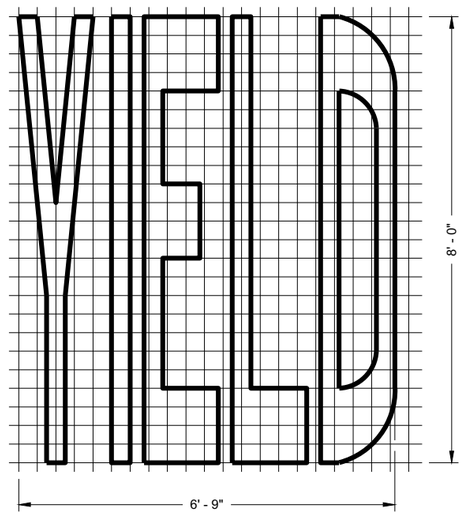
SDD 15C03 - 05

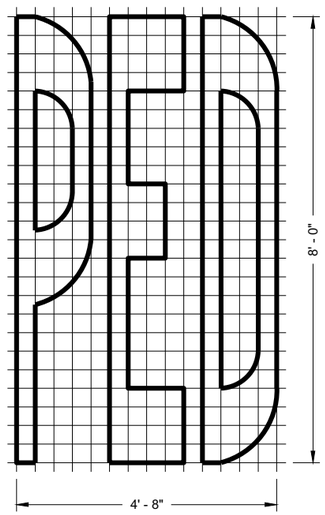
SDD 15C03 - 05

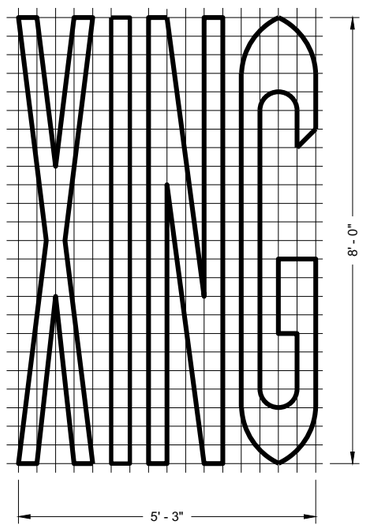


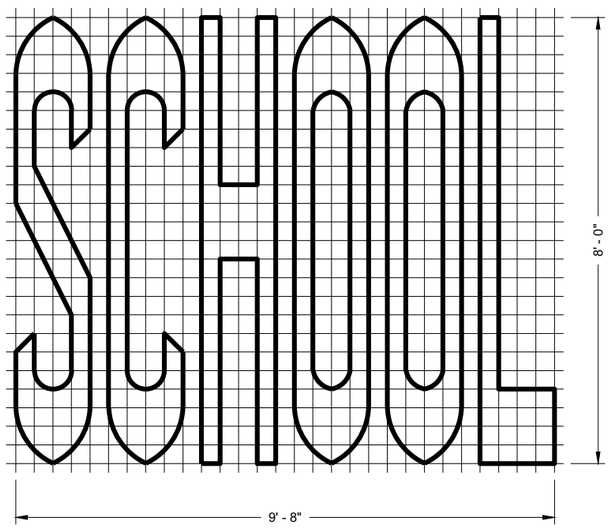




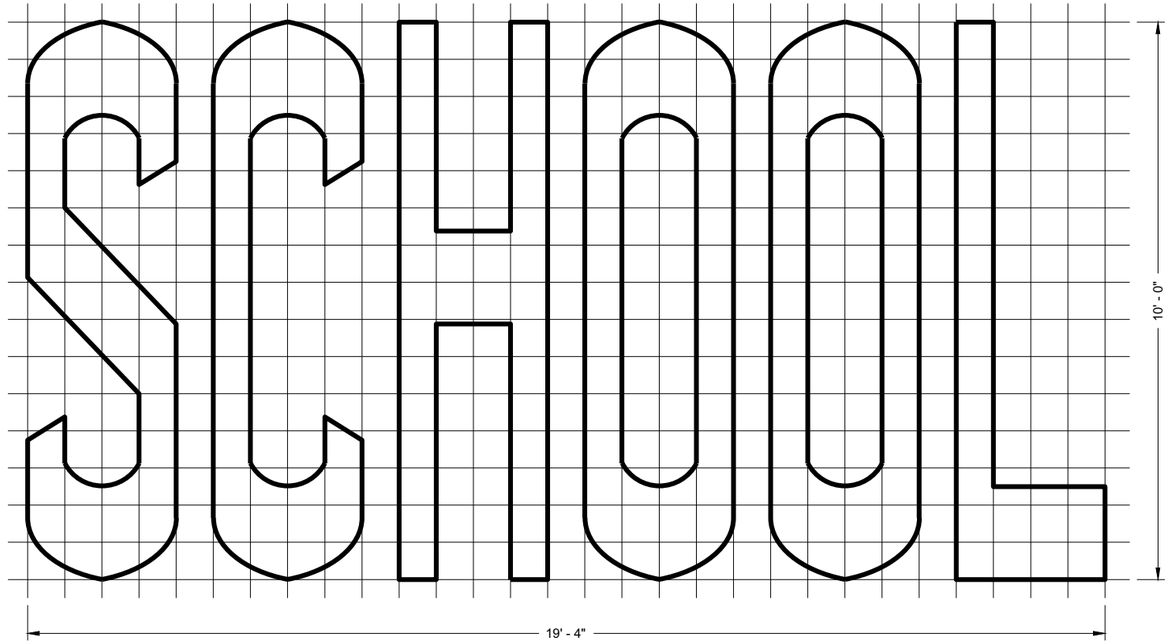








SINGLE LANE



TWO - LANE

GENERAL NOTES

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.

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MAF ENGINEER

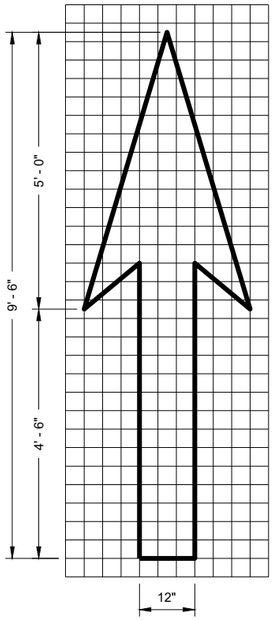
FHWA

6

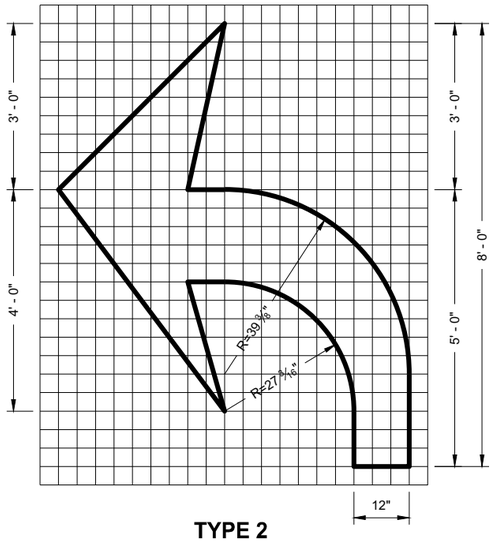
SDD 15C07 - 15b

GENERAL NOTES

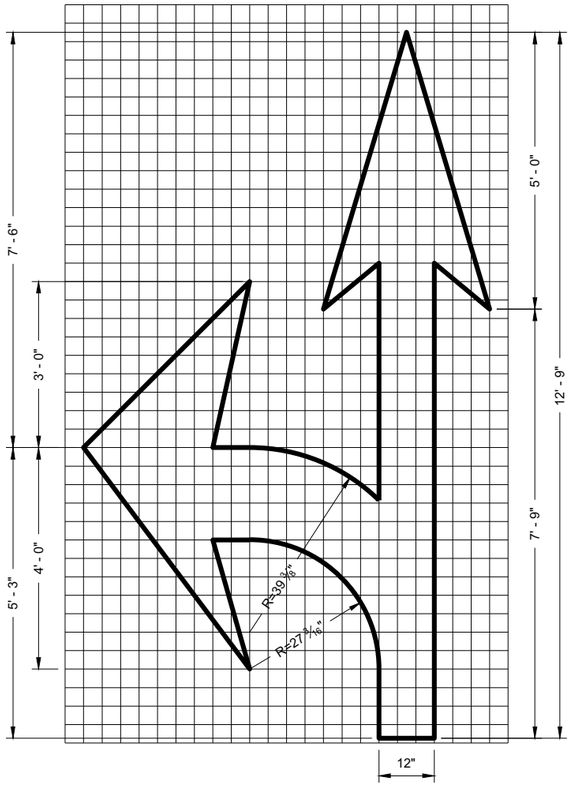
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



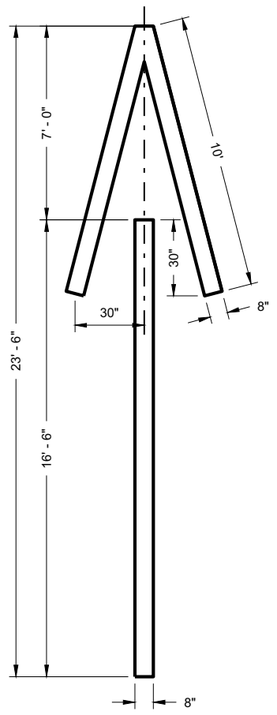
TYPE 1



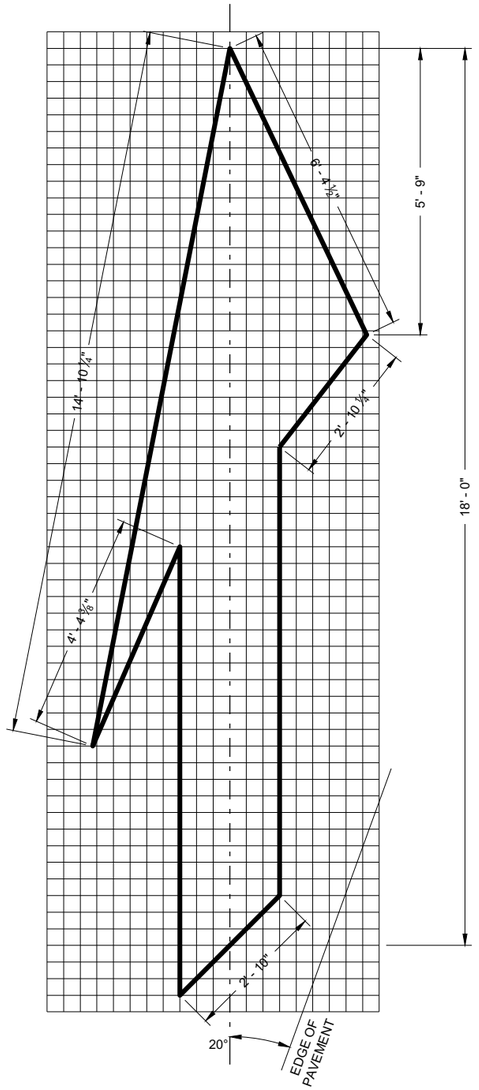
TYPE 2



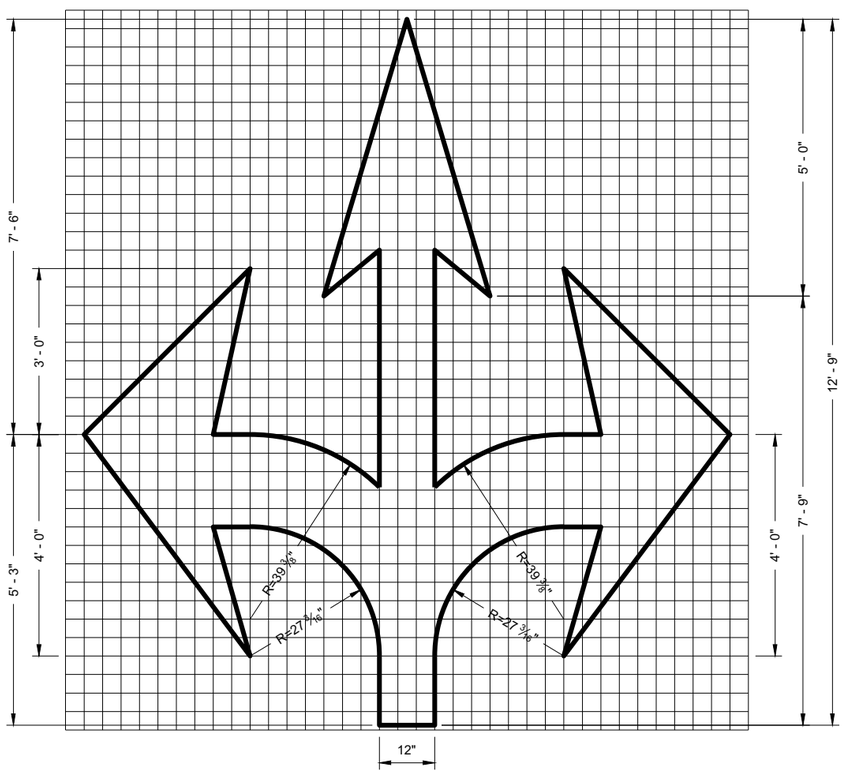
TYPE 3



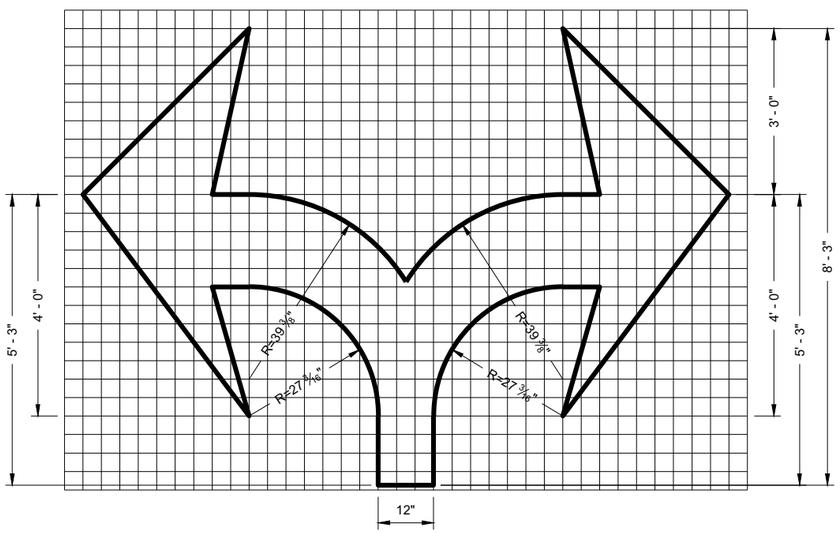
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

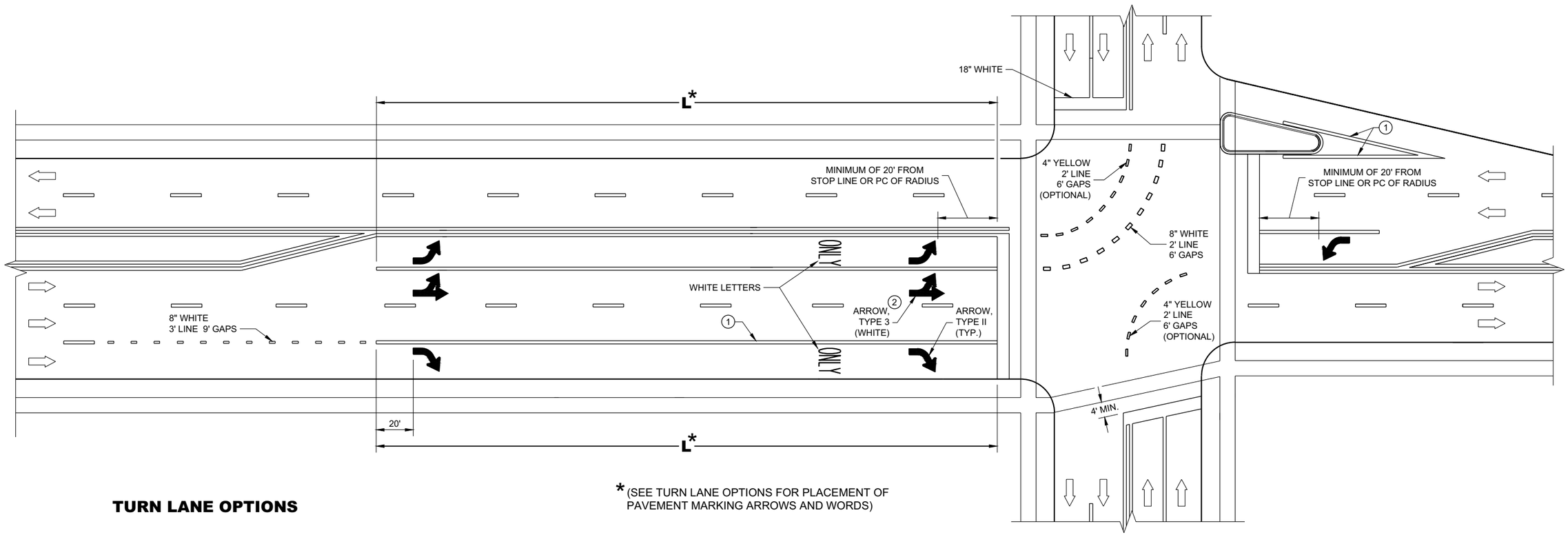
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

FHWA

SDD 15C07 - 15c

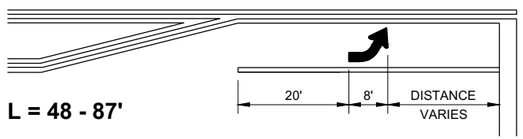
SDD 15C07 - 15c



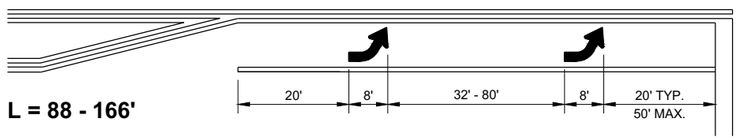
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

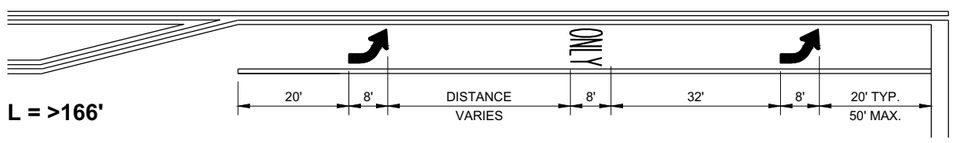
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

1. 8" WHITE
2. QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

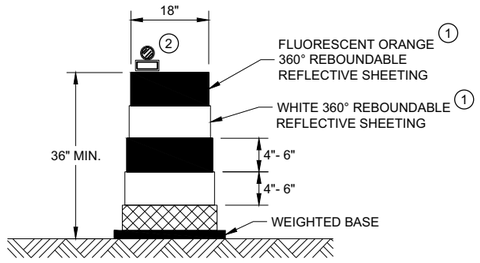
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

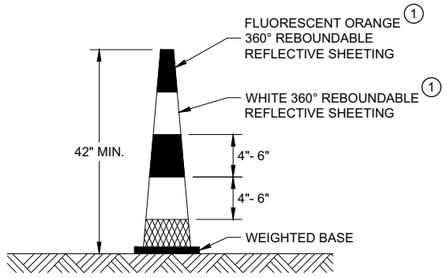
SDD 15C08 - 20c

GENERAL NOTES

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

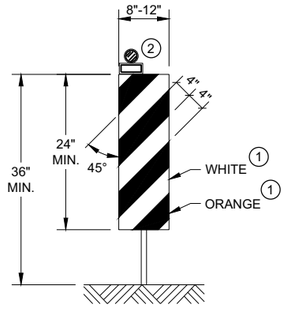


DRUM



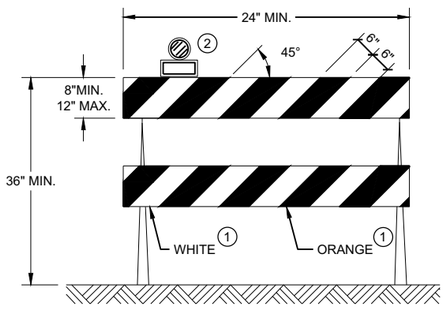
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



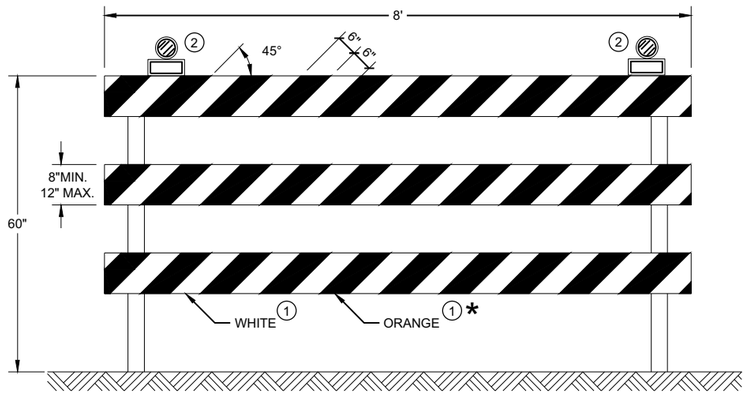
VERTICAL PANEL

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



TYPE II BARRICADE

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



TYPE III BARRICADE

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

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

6

SDD 15C11 - 08b

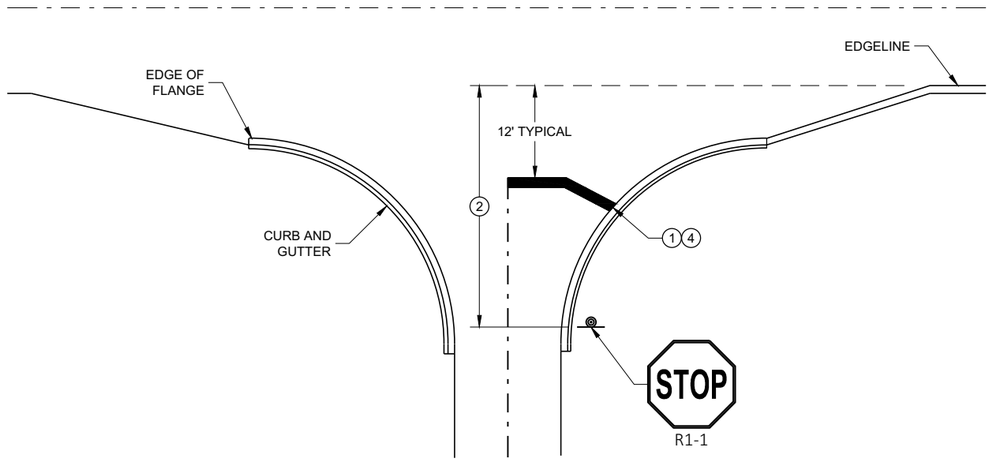
6

SDD 15C11 - 08b

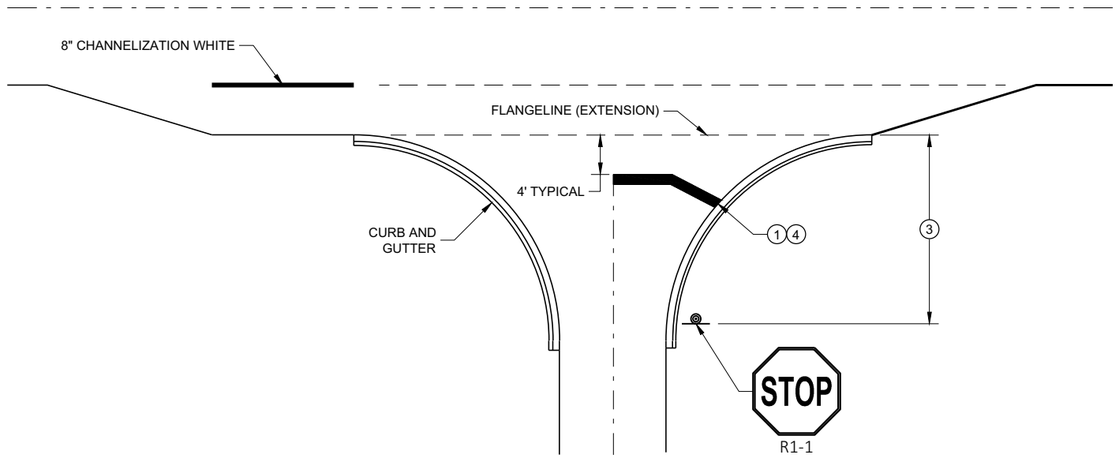
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

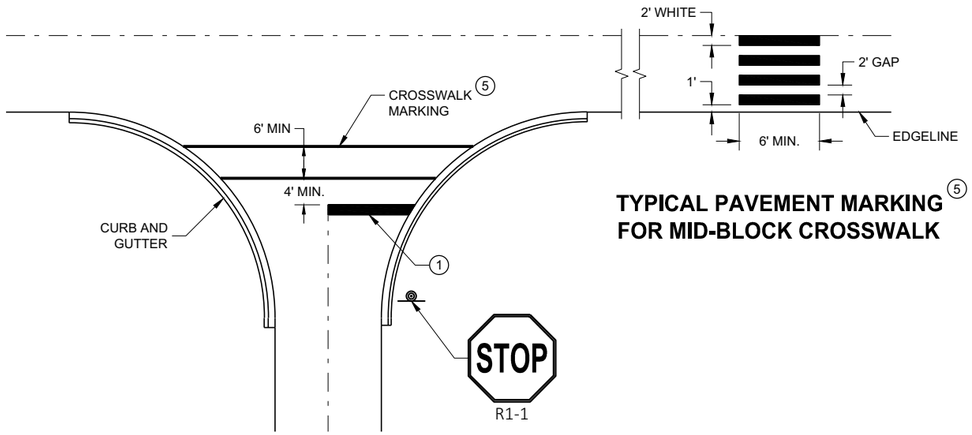
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION.
4. MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
5. LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES INSTEAD.



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

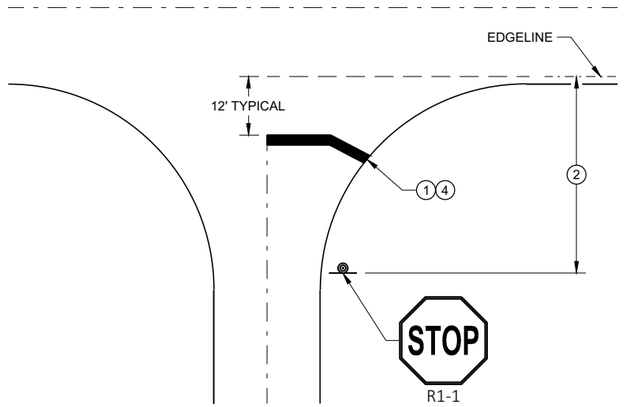


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK 5

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MARKING ENGINEER

FHWA

6

SDD 15C33 - 04

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

FOR WORK ON ROADWAYS WITH SPEEDS GREATER THAN 45MPH, USE SDD 15D12.

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

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

"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.

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

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

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

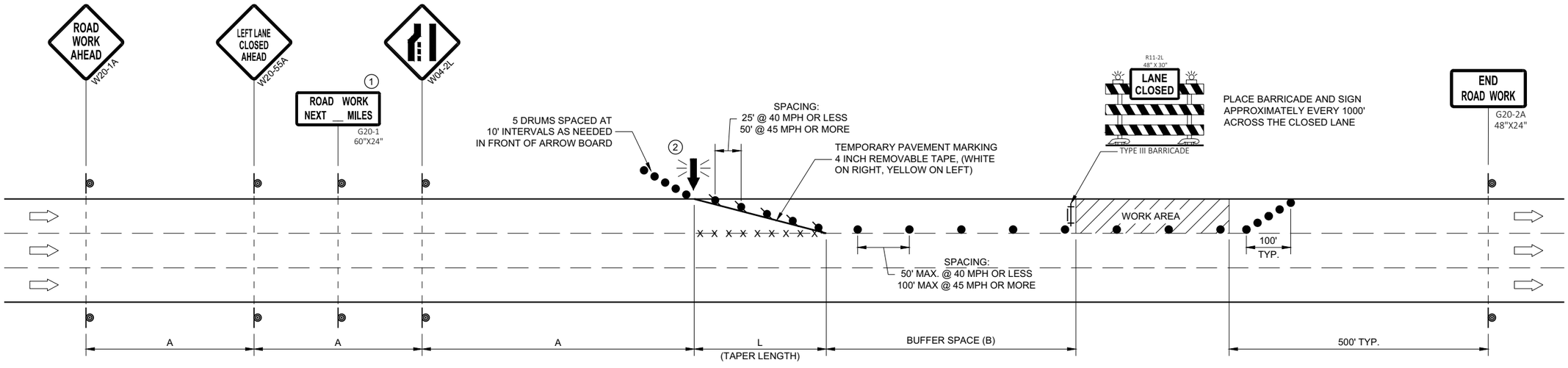
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

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

(1) OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

(2) WHERE THE SHOULDER OR TERRACE HAS INSUFFICIENT SPACE TO PLACE THE ARROW BOARD AS SHOWN, PLACE THE ARROW BOARD AT THE END OF THE TAPER.



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'

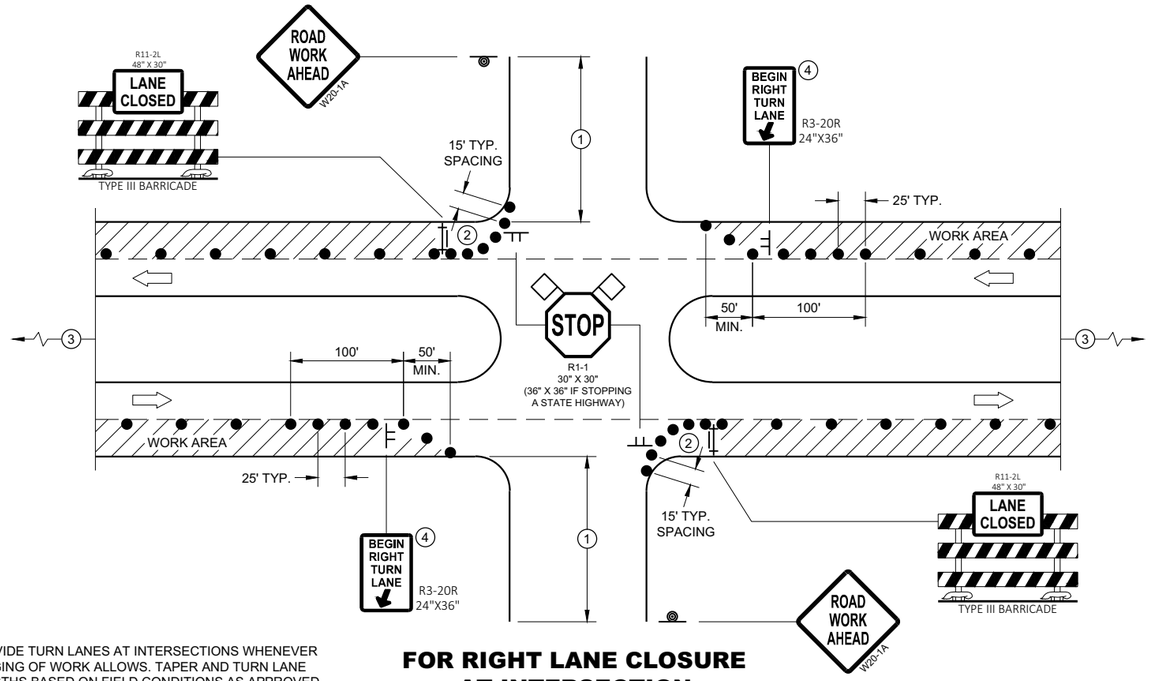
TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020 — DATE
/S/ Andrew Heidtke — STATEWIDE WORK ZONE T SAFETY ENGINEER
FHWA

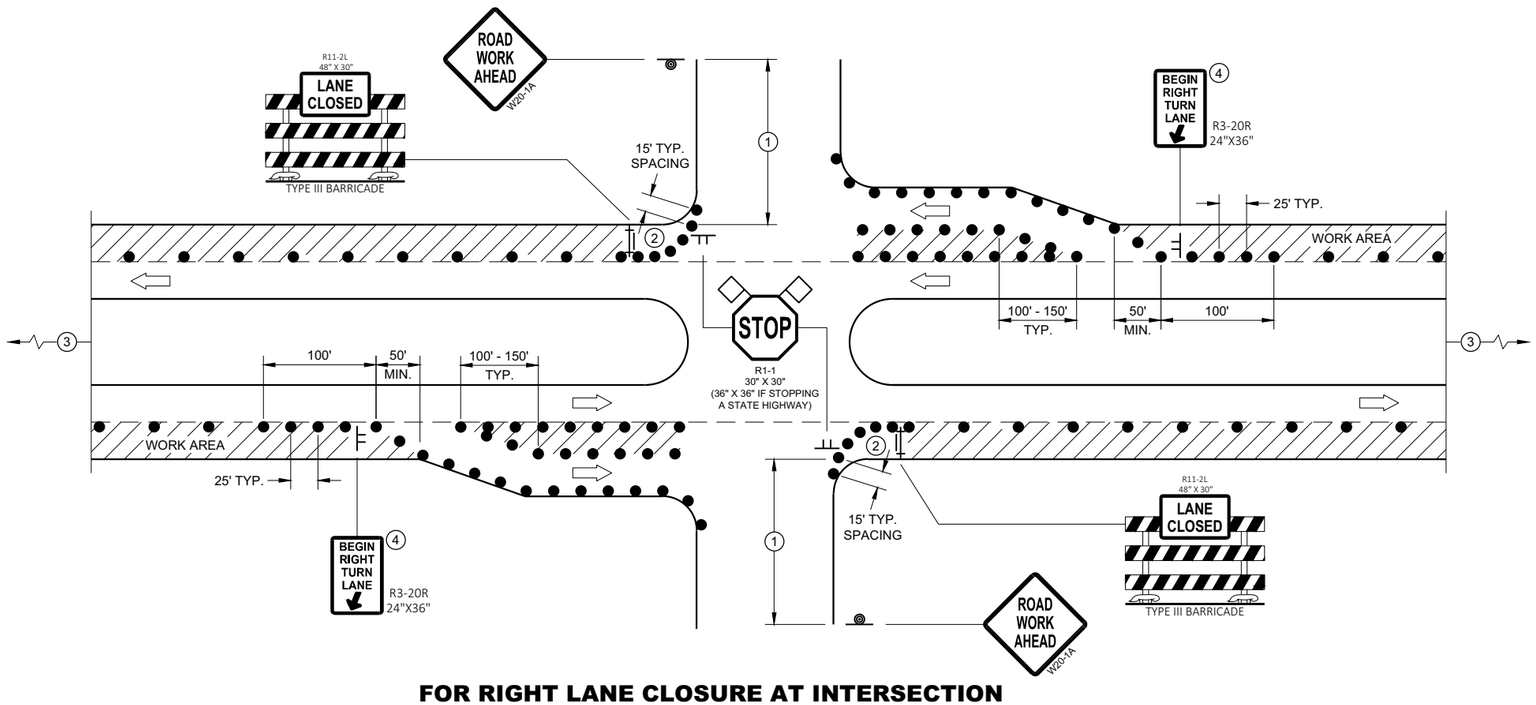
6

SDD 15D20 - 05a
SDD15D20 - 05a



FOR RIGHT LANE CLOSURE AT INTERSECTION

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

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 TRAFFIC UNIT.

"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.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(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) TO BOTTOM OF SIGN.

LEGEND

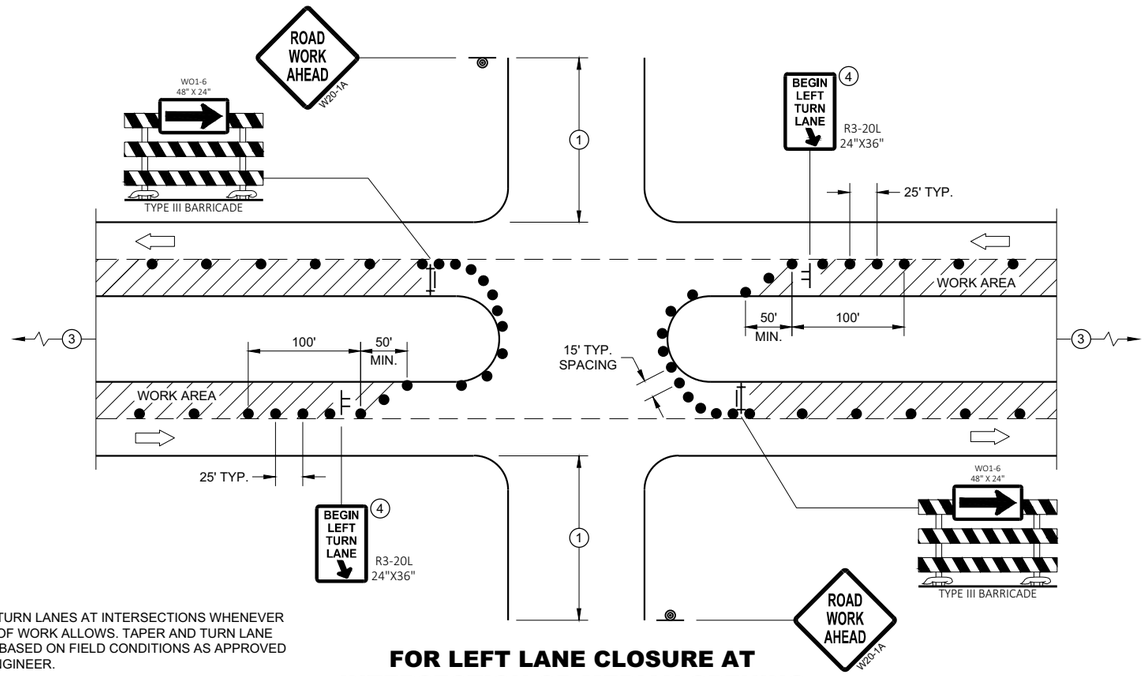
- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE RIGHT LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D21 - 07a
SDD15D21 - 07a



PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING

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 TRAFFIC UNIT.

"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.

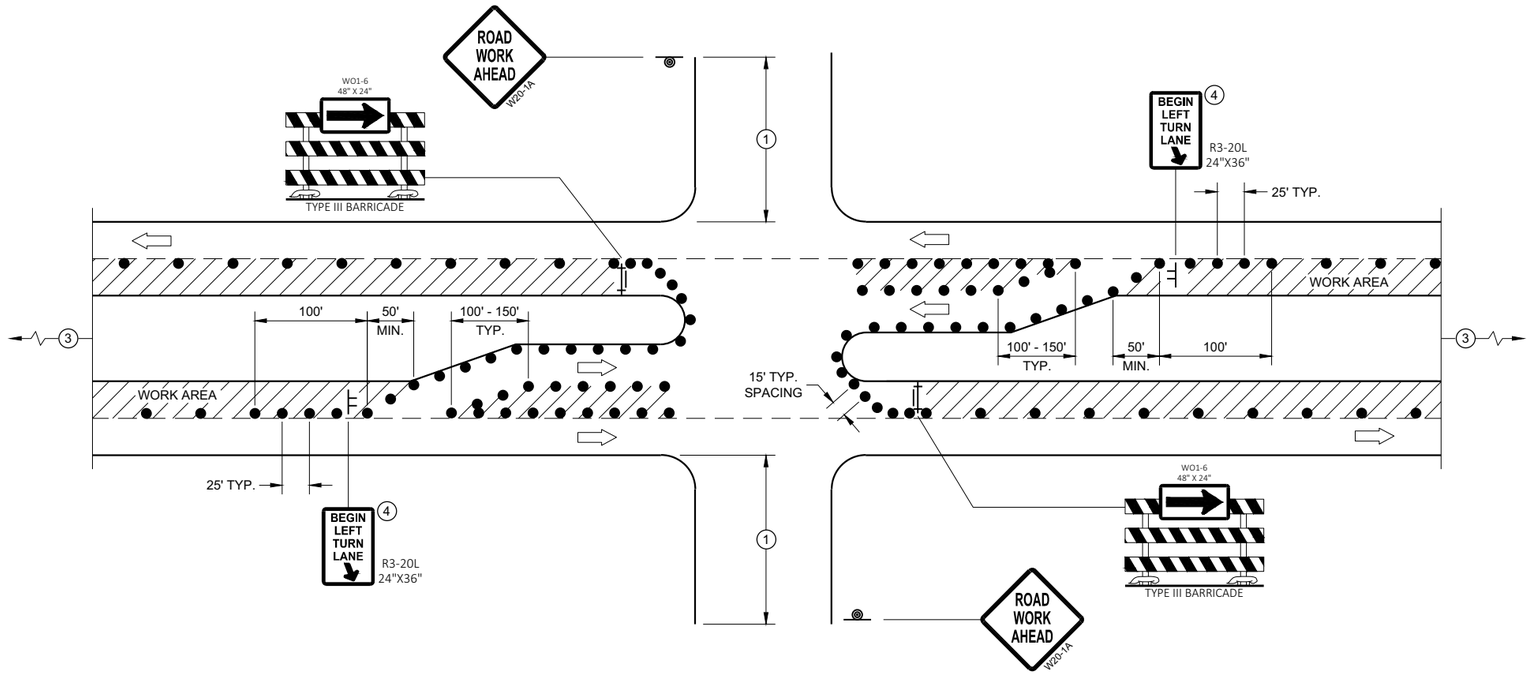
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(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) TO BOTTOM OF SIGN.



FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LEFT LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15D21 - 07b

6

SDD 15D21 - 07b

LEGEND

SIGN ON PERMANENT SUPPORT

TRAFFIC CONTROL DRUM

DIRECTION OF TRAFFIC

WORK ZONE

GENERAL NOTES

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

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

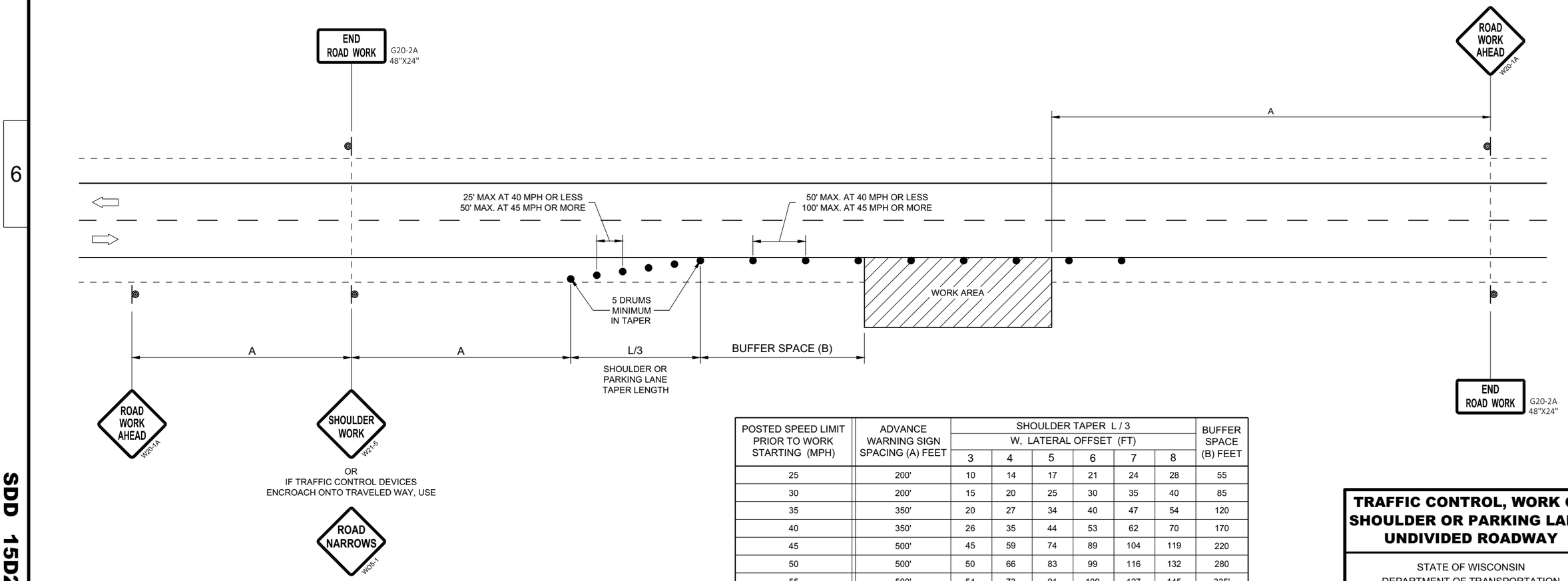
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

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

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHOULDER TAPER L / 3 W, LATERAL OFFSET (FT)						BUFFER SPACE (B) FEET
		3	4	5	6	7	8	
25	200'	10	14	17	21	24	28	55
30	200'	15	20	25	30	35	40	85
35	350'	20	27	34	40	47	54	120
40	350'	26	35	44	53	62	70	170
45	500'	45	59	74	89	104	119	220
50	500'	50	66	83	99	116	132	280
55	500'	54	73	91	109	127	145	335'

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020
DATE

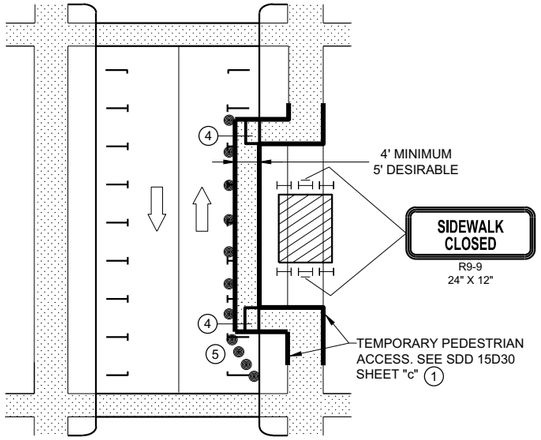
/S/ Andrew Heidtke
STATEWIDE WORK ZONE T SAFETY ENGINEER

FHWA

6

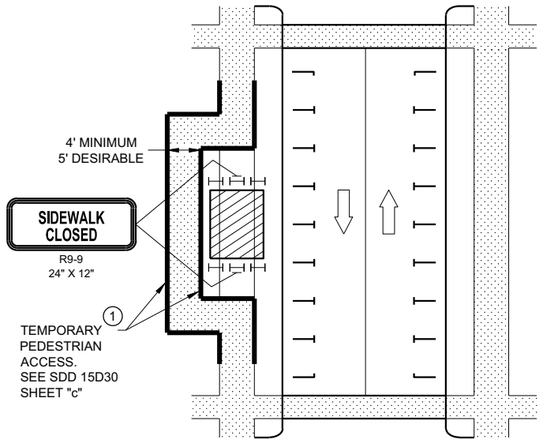
SDD 15D28 - 04

NOTE: MAY BE USED ON ROADWAY WITH POSTED SPEED OF LESS THAN 40 MPH.

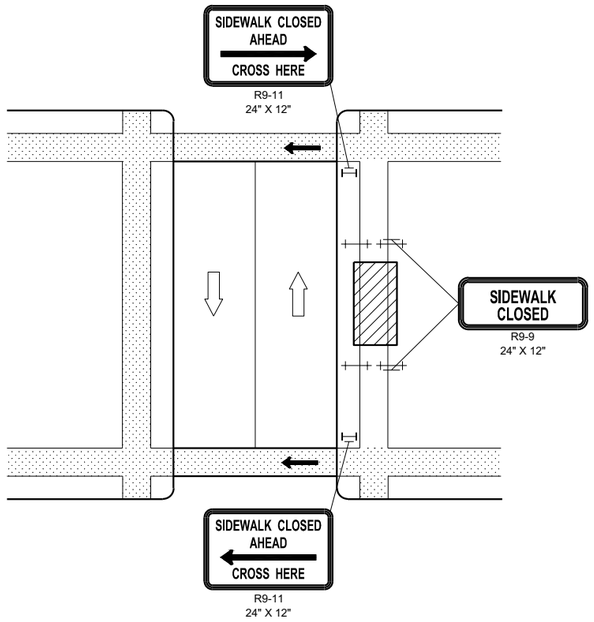


MID-BLOCK SIDEWALK CLOSURE IN PARKING LANE

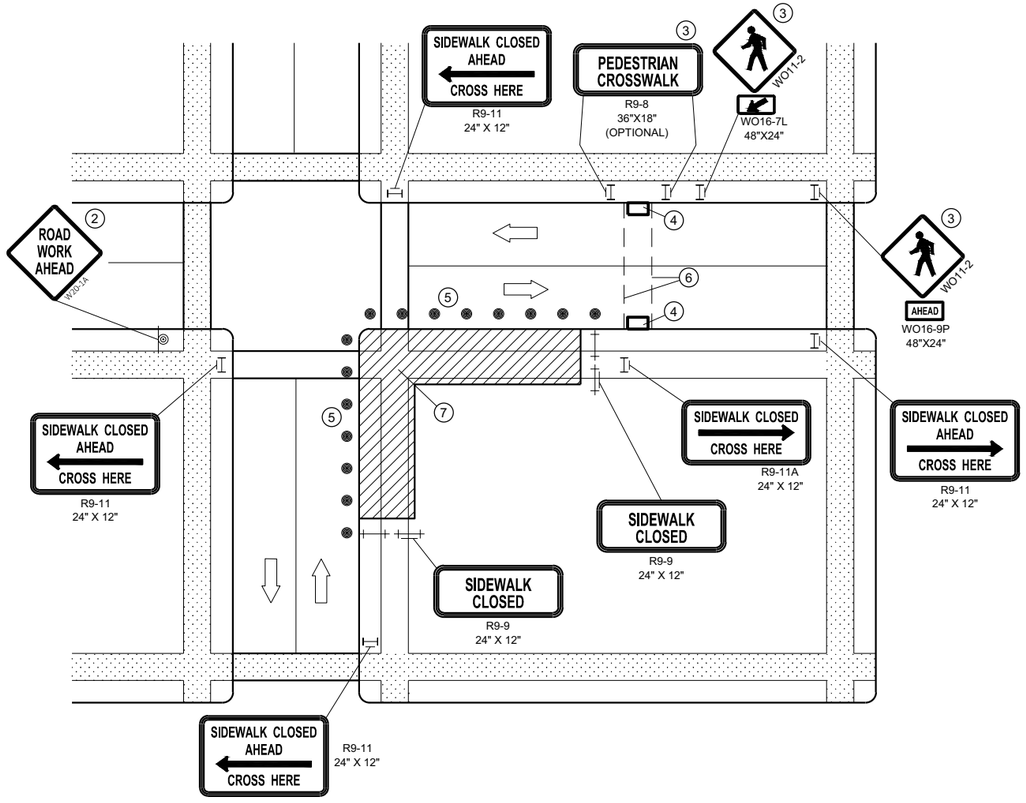
NOTE: LAYOUT SAME AS ABOVE.



SIDEWALK DIVERSION



MID-BLOCK SIDEWALK CLOSURE



CORNER SIDEWALK CLOSURE WITH TEMPORARY CROSSWALK

GENERAL NOTES

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK AS NECESSARY, TO PROVIDE A TEMPORARY PEDESTRIAN ACCESS ROUTE AT ALL TIMES. FOR ROADWAYS WITH NO AVAILABLE DETOURS, MAINTAIN ONE OPEN SIDEWALK AT ALL TIMES.

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

FOR NIGHTIME CLOSURE, USE TYPE "A" FLASHING WARNING LIGHTS ON BARRICADES, SUPPORTING SIGNS AND CLOSING SIDEWALK. USE TYPE "C" STEADY BURN LIGHTS ON CHANNELIZING DEVICES SEPARATING THE WORK AREA FROM VEHICULAR TRAFFIC.

PEDESTRIAN TRAFFIC SIGNAL DISPLAY CONTROLLING CLOSED CROSSWALK SHALL BE COVERED OR DEACTIVATED.

POST MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7 FOOT MINIMUM CLEARANCE FROM THE BOTTOM OF THE SIGN TO THE SIDEWALK SURFACE.

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

(1) IF SIDEWALK CLOSURE AFFECTS AN ACCESSIBLE AND DETECTABLE FACILITY, MAINTAIN ACCESSIBILITY AND DETECTABILITY ALONG THE ALTERNATE PEDESTRIAN ROUTE

(2) "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.

(3) IF TEMPORARY PEDESTRIAN CROSSWALK IS NOT PROVIDED, OMIT R9-8 AND WO11-2 SIGN ASSEMBLIES. IF PROVIDED INCLUDE ON BOTH SIDES OF THE CROSSWALK.

(4) TEMPORARY CURB RAMPS. SEE SDD 15D30 SHEET "b'.

(5) DRUMS OR BARRICADES AT 25 FOOT SPACING. STREET PARKING SHALL BE PROHIBITED FOR AT LEAST 50 FEET IN ADVANCE OF THE MID-BLOCK CROSSWALK.

(6) TEMPORARY PAVEMENT MARKING FOR CROSSWALK LINES.

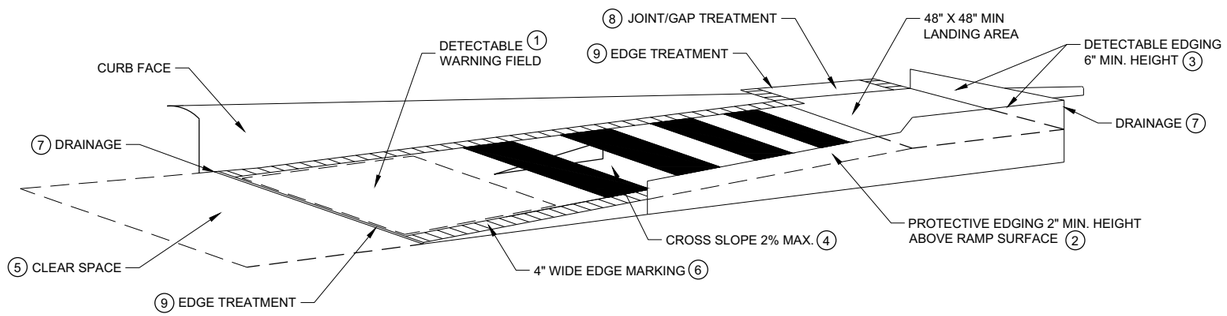
(7) LIMIT WORK TO ONE QUADRANT AT A TIME TO MINIMIZE PEDESTRIAN DISRUPTION.

LEGEND

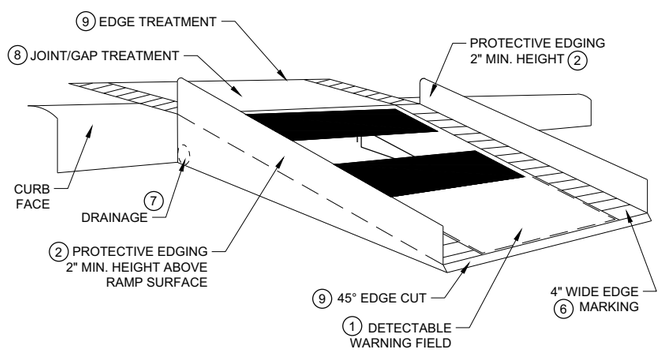
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- TYPE III BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW INTENSITY FLASHING)
- UNDER PEDESTRIAN TRAFFIC
- WORK AREA
- PEDESTRIAN CHANNELIZATION DEVICE
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

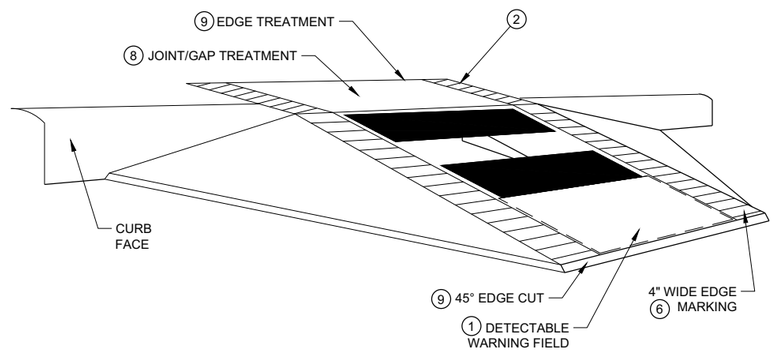
SDD 15D30 - 06a
6



TEMPORARY CURB RAMP PARALLEL TO CURB



WITH PROTECTIVE EDGE



WITH SIDE APRON

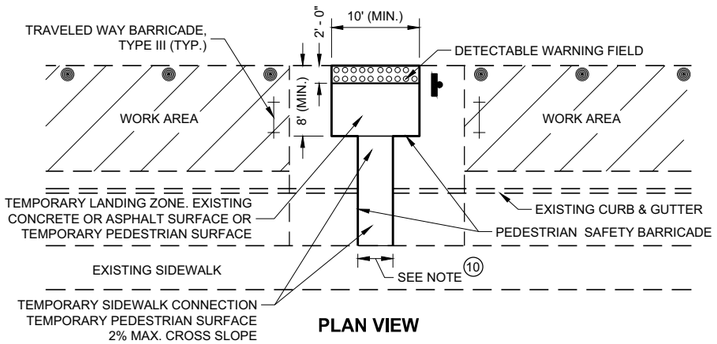
TEMPORARY CURB RAMP PERPENDICULAR TO CURB

GENERAL NOTES

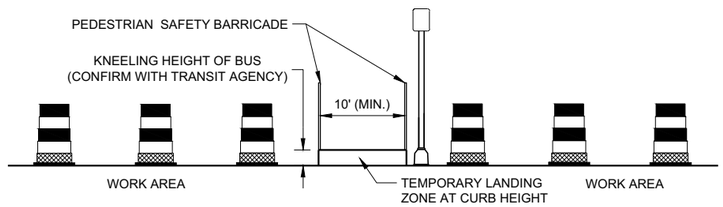
NOTIFY THE BUS COMPANY 7 DAYS IN ADVANCE OF THE BUS STOP RELOCATION.

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

1. CURB RAMPS SHALL BE 48" MIN. WIDTH WITH A A FIRM, STABLE AND SLIP RESISTANT SURFACE. INSTALL CONTRASTING DETECTABLE WARNING FIELD AT PEDESTRIAN STREET CROSSINGS. REFER TO SDD 08D05, SHEET "e".
2. PROTECTIVE EDGING WITH A 2" MIN. HEIGHT SHALL BE INSTALLED WHEN A CURB RAMP OR LANDING PLATFORM HAS A VERTICAL DROP OF 6" OR GREATER OR HAS A SIDE APRON SLOPE STEEPER THAN 1:3 (33%). PROTECTIVE EDGING SHOULD BE CONSIDERED WHEN CURB RAMPS OR LANDING PLATFORMS HAVE A VERTICAL DROP OF 3" OR MORE.
3. DETECTABLE EDGING WITH 6" MIN. HEIGHT AND CONTRASTING COLOR SHALL BE INSTALLED ON ALL CURB RAMP LANDINGS WHERE THE WALKWAY CHANGES DIRECTION (TURNS).
4. CURB RAMPS AND LANDINGS SHALL HAVE A 1:50 (2%) MAX. CROSS-SLOPE.
5. CLEAR SPACE OF 48" X 48" SHALL BE PROVIDED ABOVE AND BELOW THE CURB RAMP.
6. THE CURB RAMP WALKWAY EDGE SHALL BE MARKED WITH A YELLOW COLOR, 4" WIDE MARKING, UNLESS A CONTRASTING DETECTABLE WARNING FIELD IS PROVIDED.
7. DO NOT RESTRICT WATER FLOW IN THE GUTTER SYSTEM.
8. LATERAL JOINTS OR GAPS BETWEEN SURFACES SHALL BE LESS THAN ½" WIDTH.
9. CHANGES BETWEEN SURFACE HEIGHTS SHALL NOT EXCEED ½". LATERAL EDGES SHALL BE VERTICAL UP TO ¼" HIGH AND BEVELED AT 1:2 BETWEEN ¼" AND ½".
10. 5" WIDE MIN. WITH PEDESTRIAN SAFETY BARRICADE, 10' WIDE MIN. WITHOUT PEDESTRIAN SAFETY BARRICADE.



PLAN VIEW



PROFILE VIEW

TEMPORARY BUS STOP PAD

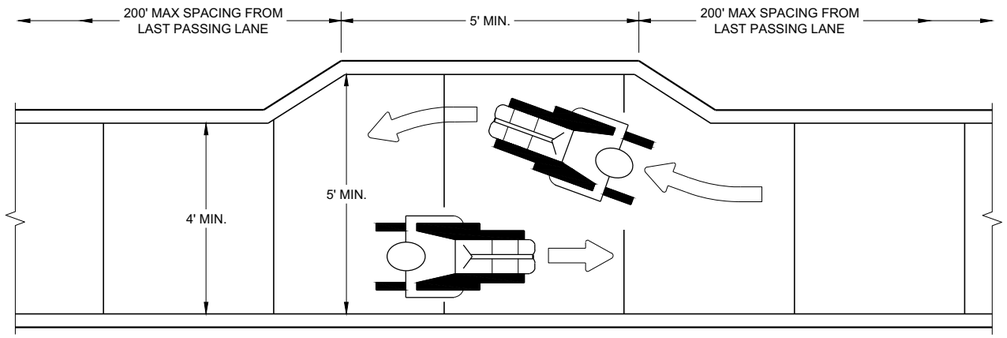
LEGEND

- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE
- WORK AREA

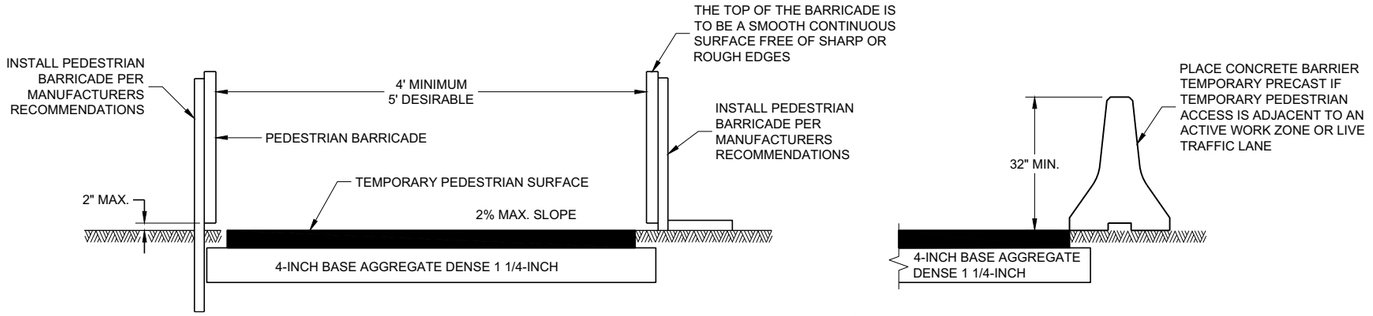
TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

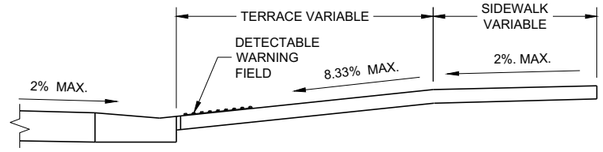
SDD 15D30 - 06b



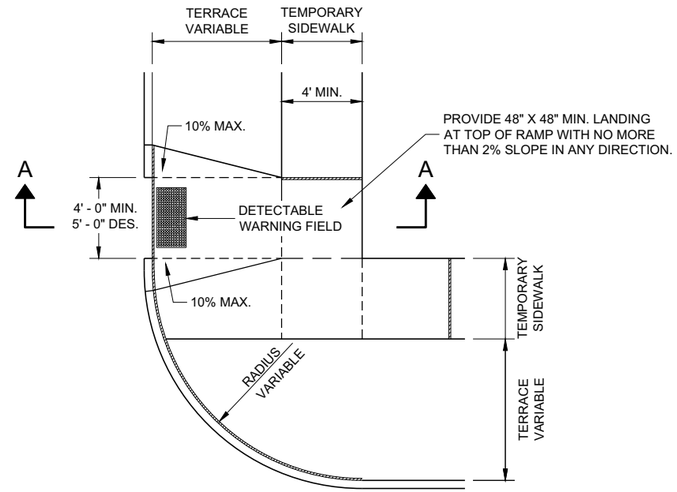
NARROW SIDEWALK PASSING DETAIL



TEMPORARY PEDESTRIAN ACCESS



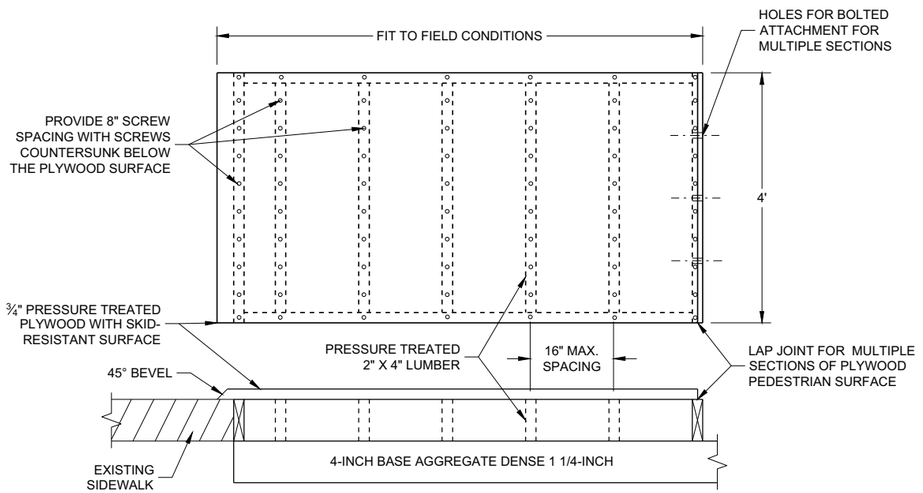
SECTION A - A



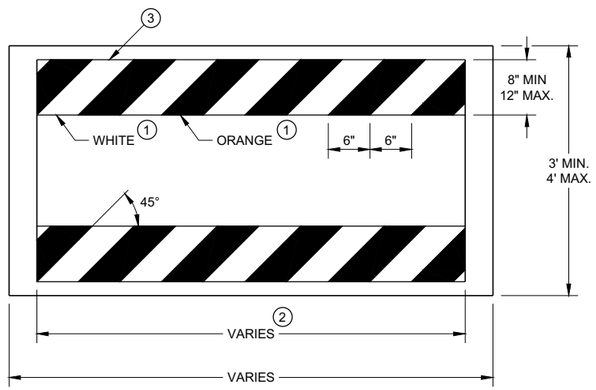
PLAN VIEW

TEMPORARY TYPE 3 RAMP

(OUTSIDE OF CROSSWALK AREA)



TEMPORARY PEDESTRIAN SURFACE PLYWOOD



TEMPORARY PEDESTRIAN BARRICADE *

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.

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

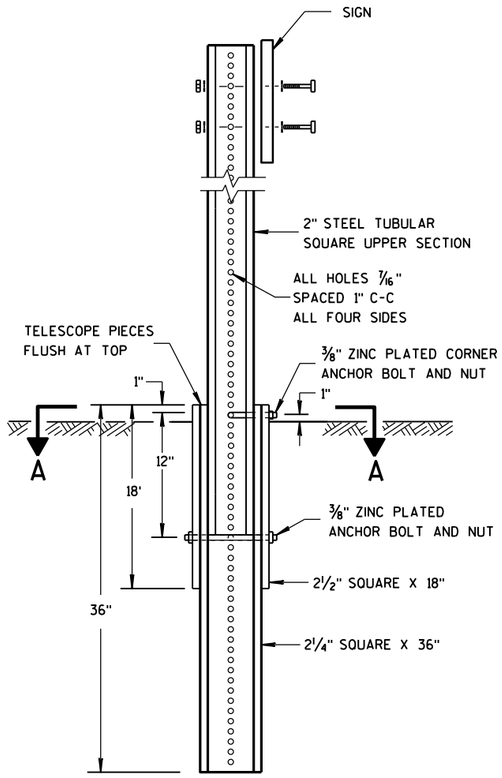
APPROVED
November 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

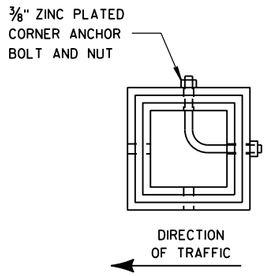
FHWA

6

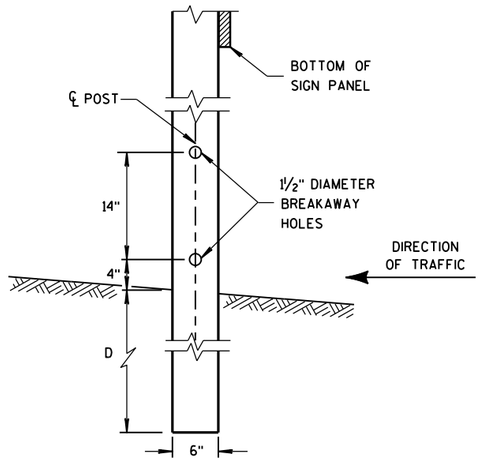
SDD 15D30 - 06c



DETAIL OF TUBULAR STEEL SIGN POST



SECTION A-A



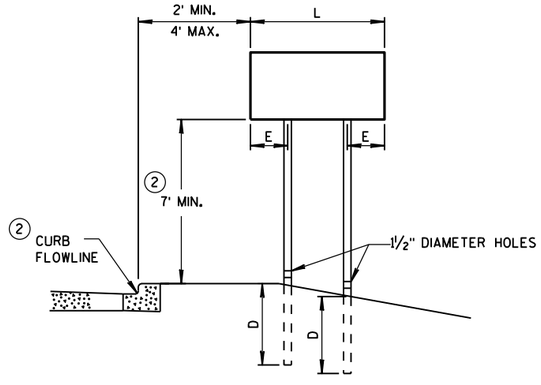
4"x6" WOOD POST MODIFICATION

GENERAL NOTES

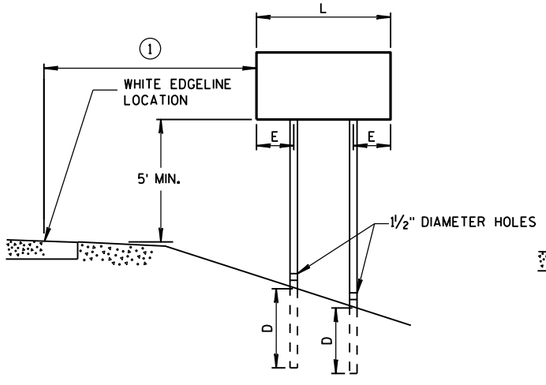
(1) 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.

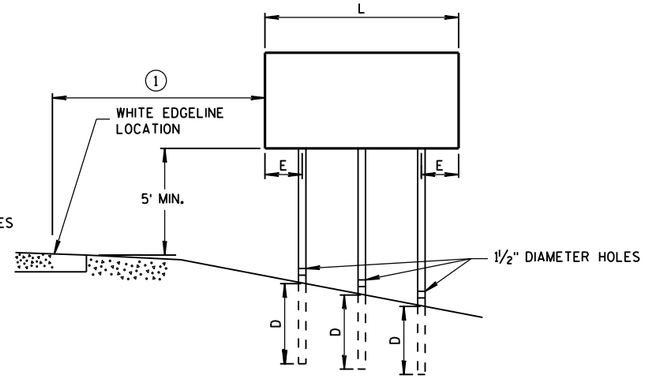
(2) THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.

(3) FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.



URBAN AREA





RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

TUBULAR STEEL POSTS

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

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

WOOD POST EMBEDMENT DEPTH

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

4" X 6" WOOD POST

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

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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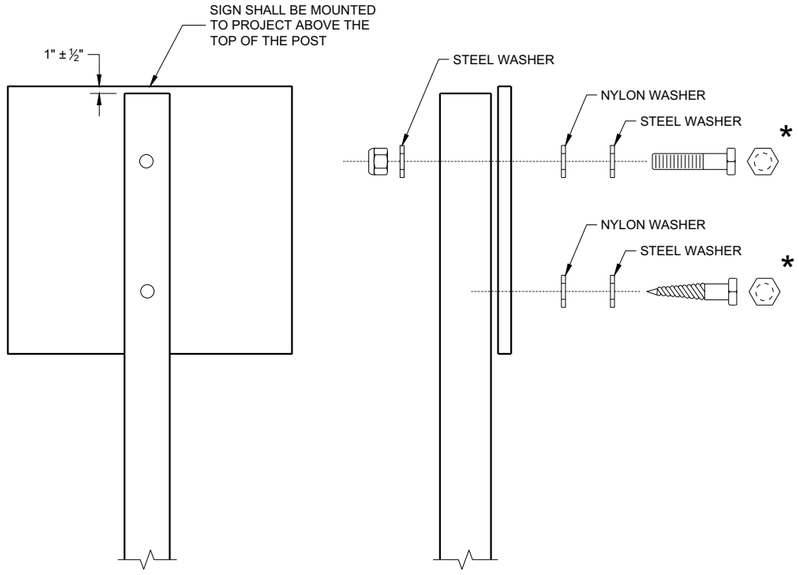
S.D.D. 15 D 38-2a



NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3
B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POST (4" x 6")
LAG SCREWS - ⅜" x 3"
MACHINE BOLTS - ⅝" x 6 ½" OR 7" LENGTH W/NUTS

SQUARE STEEL POST (2" x 2")
MACHINE BOLTS - ⅜" x 3 ¼" LENGTH W/NUTS
RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE 0.720 - 0.765 INCH, GRIP RANGE 0.042 - 0.375 INCH

WASHERS (ALL POSTS) -
1 ¼" O.D. x ⅜" I.D. x 1/16" STEEL
1 ¼" O.D. x ⅜" I.D. x 0.080 NYLON

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

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SDD 15D38 - 02b

SDD 15D38 - 02b

ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov