FEBRUARY 2017

ORDER OF SHEETS

Section No. 1

Section No. 2 Typical Sections and Details Estimate of Quantities Section No. 3 Miscellaneous Quantities

-Right of Way Plat Section No. 5 Plan and Profile

Section No. 6 Standard Detail Drawings

Sign Plates Structure Plans Section No. 9 Computer Earthwork Data

Section No. 9 Cross Sections

TOTAL SHEETS = 76

A.A.D.T. A.A.D.T. 2025 = 9,700 D.H.V. 2016 = 1,183 = 59/41 = 18.2% DESIGN SPEED = 45 MPH

= N/A

CONVENTIONAL SYMBOLS

MARSH AREA

WOODED OR SHRUB AREA

PLAN CORPORATE LIMITS	<u> </u>	PROFILE GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	ROCK
OT LINE LIMITED HIGHWAY EASEMENT		MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH	LABEL
EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE		GRADE ELEVATION	95.36
SLOPE INTERCEPT		CULVERT (Profile View)	0 □
REFERENCE LINE	300 EB'	UTILITIES	
EXISTING CULVERT		ELECTRIC FIBER OPTIC	E
PROPOSED CULVERT (Box or Pipe)		GAS	—— G ——
COMBUSTIBLE FLUIDS	M	SANITARY SEWER	SAN
COMPOSTIBLE LEGIDS	-CAUTION-	STORM SEWER	SS
	ν .	TELEPHONE	T

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

STATE HIGHWAY REHABILITATION-MAINTENANCE PROJECT

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 1166-08-84

PROJECT 1166-08-84

OVERHEIGHT VEHICLE DETECTION

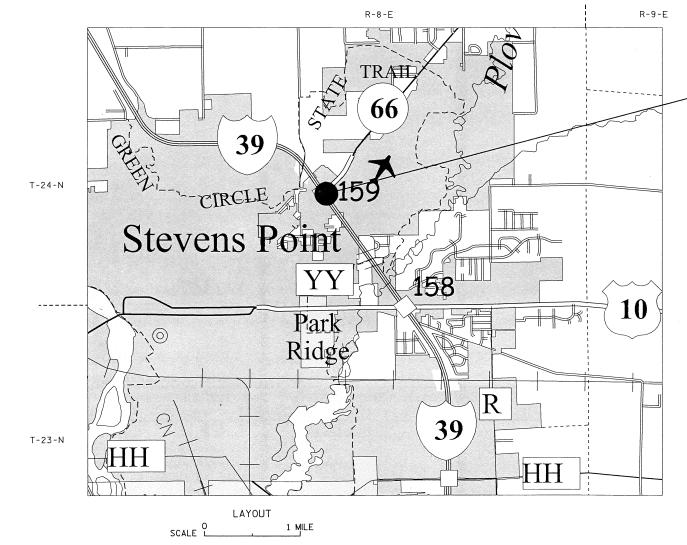
C STEVENS POINT, STANLEY STREET

STANLEY ST BR OVERHEIGHT DETECTION

IH 39

PORTAGE COUNTY

STATE PROJECT NUMBER 1166-08-84



HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, PORTAGE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

Surveyor Destaner

Project Manager

TOTAL NET LENGTH OF CENTERLINE = N/A

2

GENERAL NOTES

CONTRACTOR WILL BE RESPONSIBLE TO RESTORE AREAS DISTURBED FOR CONSTRUCTION OUTSIDE OF CONDUIT AND BASE INSTALLATION ARE TO BE RESTORED TO THE ORIGINAL CONDITION WITH TOPSOIL, FERTILIZER, AND SEED AND MULCH IN COMPLIANCE WITH STANDARD SPECIFICATIONS AND AS APPROVED BY THE ENGINEER.

CONTRACTOR WILL BE RESPONSIBLE TO RESTORE ALL AREAS DISTURBED FOR CONSTRUCTION TO THE ORIGINAL CONDITION.

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

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

PLACE ALL PROPOSED INFRASTRUCTURE 18-INCHES OR MORE AWAY FROM EXISTING UTILITIES, INSTALL CONDUIT SO IT WILL BE OVER OR UNDER EXISTING UTILITY FACILITIES.

PURSUANT TO CHAPTER 59 OF THE WISCONSIN STATUTES, THE CONTRACTOR SHALL CAREFULLY MAKE A SEARCH FOR EVIDENCE OF A LANDMARK IN ALL AREAS WHERE SUCH A LANDMARK MAY EXIST. NOTIFY THE ENGINEER THE RESULTS OF THE SEARCH.

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

CITY OF STEVENS POINT-AIRPORT FACILITY

JOEL LEMKE 300 BLISS AVE

STEVENS POINT, WI 54481 PHONE: (715)345-5266 WORK E-MAIL: jlemke@Stevenspoint.COM

AT&T WISCONSIN-COMMUNICATION LINE

CHUCK BARTELT 70 E. DIVISION ST. FOND DU LAC, WI 54935 PHONE: (920)929-1013 WORK E-MAIL: Cb1461@ATT.COM

CHARTER COMMUNICATIONS - COMMUNICATION LINE

RUDI RUDIGER 5024 HEFFRON ST. STEVENS POINT, WI 54481 PHONE: (715) 204-5339 WORK E-MAIL: rudiger@charter.com

CITY OF STEVENS POINT-COMMUNICATION LINE

LANCE MUSACK
1515 STRONGS AVE
STEVENS POINT, WI 54481
PHONE: (715) 346-1560 WORK
E-MAIL: Imusack@stevenspoint.com

PACKERLAND BROADBAND - COMMUNICATION LINE

RANDY SIMMS
PO BOX 185
IRON MOUNTAIN, MI 49801
PHONE: (906) 282-3802 MOBILE
E-MAIL: simms@ccisystems.com

<u>UTILITIES</u>

WISCONSIN PUBLIC SERVICE CORPORATION-ELECRICITY

DON LUTZOW
PO BOX 1166
WAUSAU WI, 54402
PHONE: (715) 848-7487 WORK

PHONE: (715) 493-7802 MOBILE

E-MAIL: dalutzow@wisconsinpublicservice.com

WISCONSIN PUBLIC SERVICE CORPORATION-GAS/PETROLEUM

DAVID RETZLAFF 2850 ASHLAND AVE GREEN BAY, WI 54304

PHONE: (920)617-5106 WORK

E-MAIL: dpretzlaff@wisconsinpublicService.com

CITY OF STEVENS POINT-SEWER

JOEL LEMKE 300 BLISS AVE

STEVENS POINT, WI 54481
PHONE: (715)345-5266 WORK
E-MAIL: jlemke@Stevenspoint.COM

CITY OF STEVENS POINT-STREET LIGHTING

LANCE MUSACK 1515 STRONGS AVE STEVENS POINT, WI 54481 PHONE: (715) 346-1560 WORK E-MAIL: Imusack@stevenspoint.com

CITY OF STEVENS POINT-WATER

JOEL LEMKE 300 BLISS AVE STEVENS POINT, WI 54481

PHONE: (715)345-5266 WORK
E-MAIL: jlemke@Stevenspoint.COM

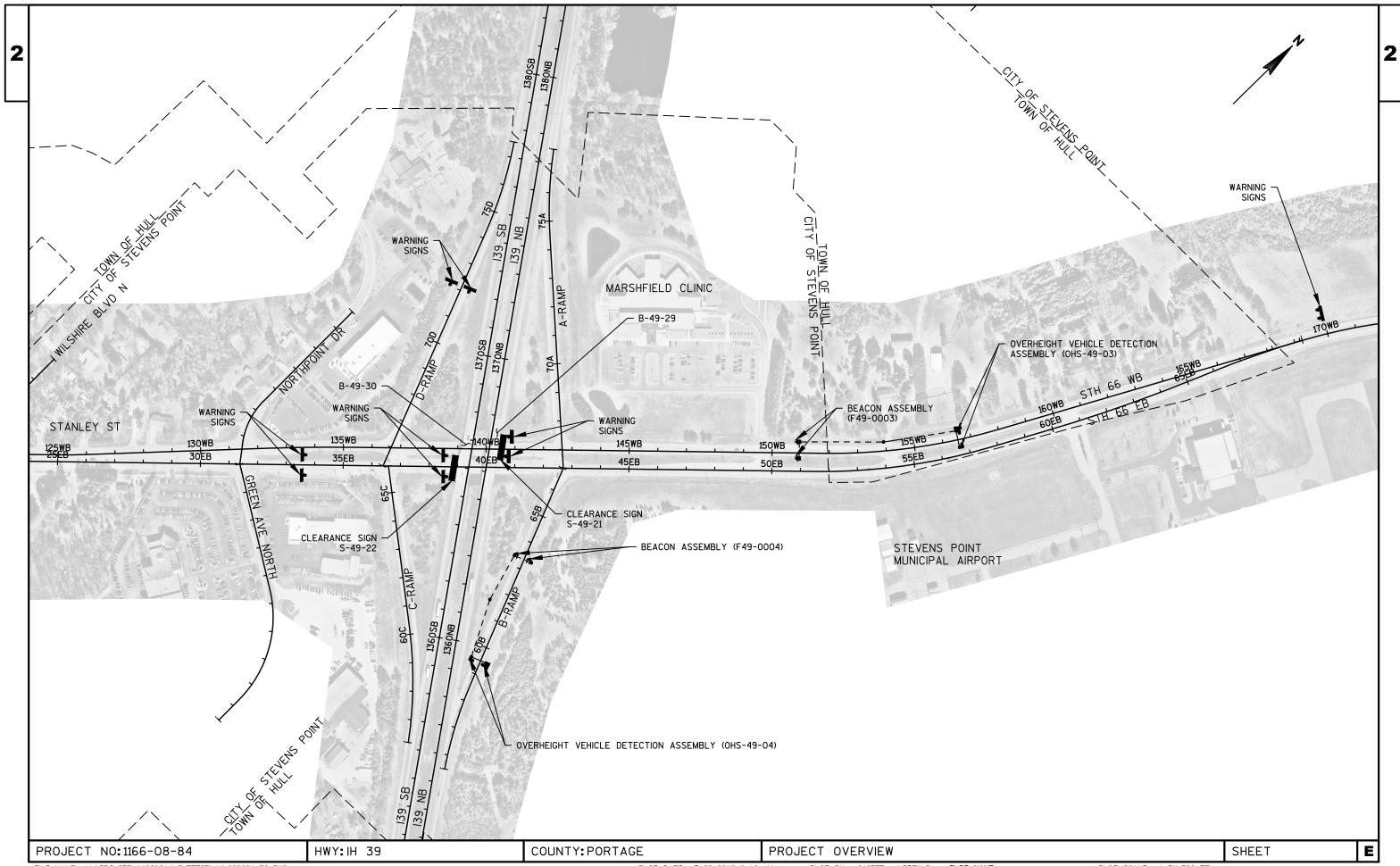
DNR

DNR LIAISON

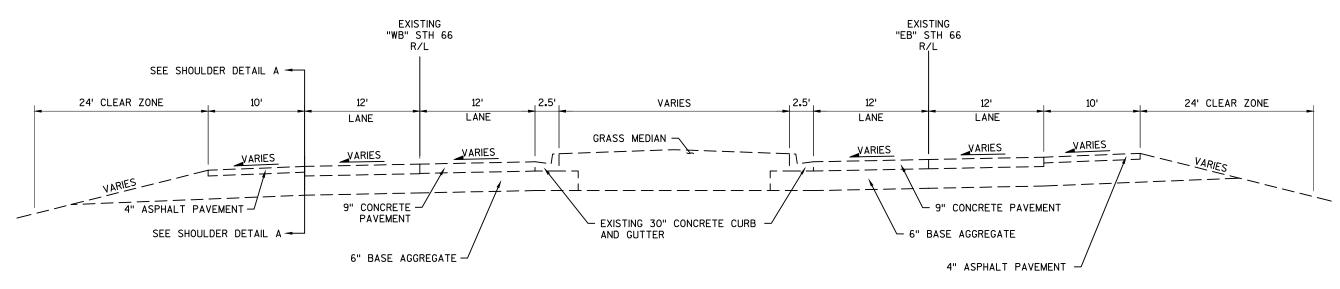
MARC HERSHFIELD DNR SERVICE CENTER 473 GRIFFITH DRIVE PHONE: (715) 421-7867



PROJECT NO: 1166-08-84 HWY: IH 39 COUNTY: PORTAGE GENERAL NOTES SHEET: **E**



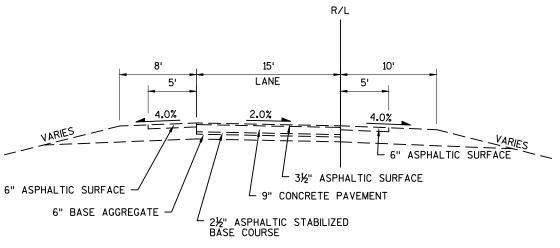




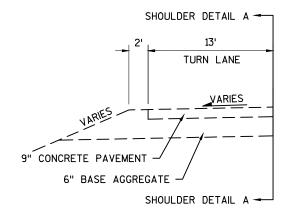
EXISTING TYPICAL SECTION STH 66/STANLEY STREET

STA. 50+94.98EB TO STA. 56+68.18EB

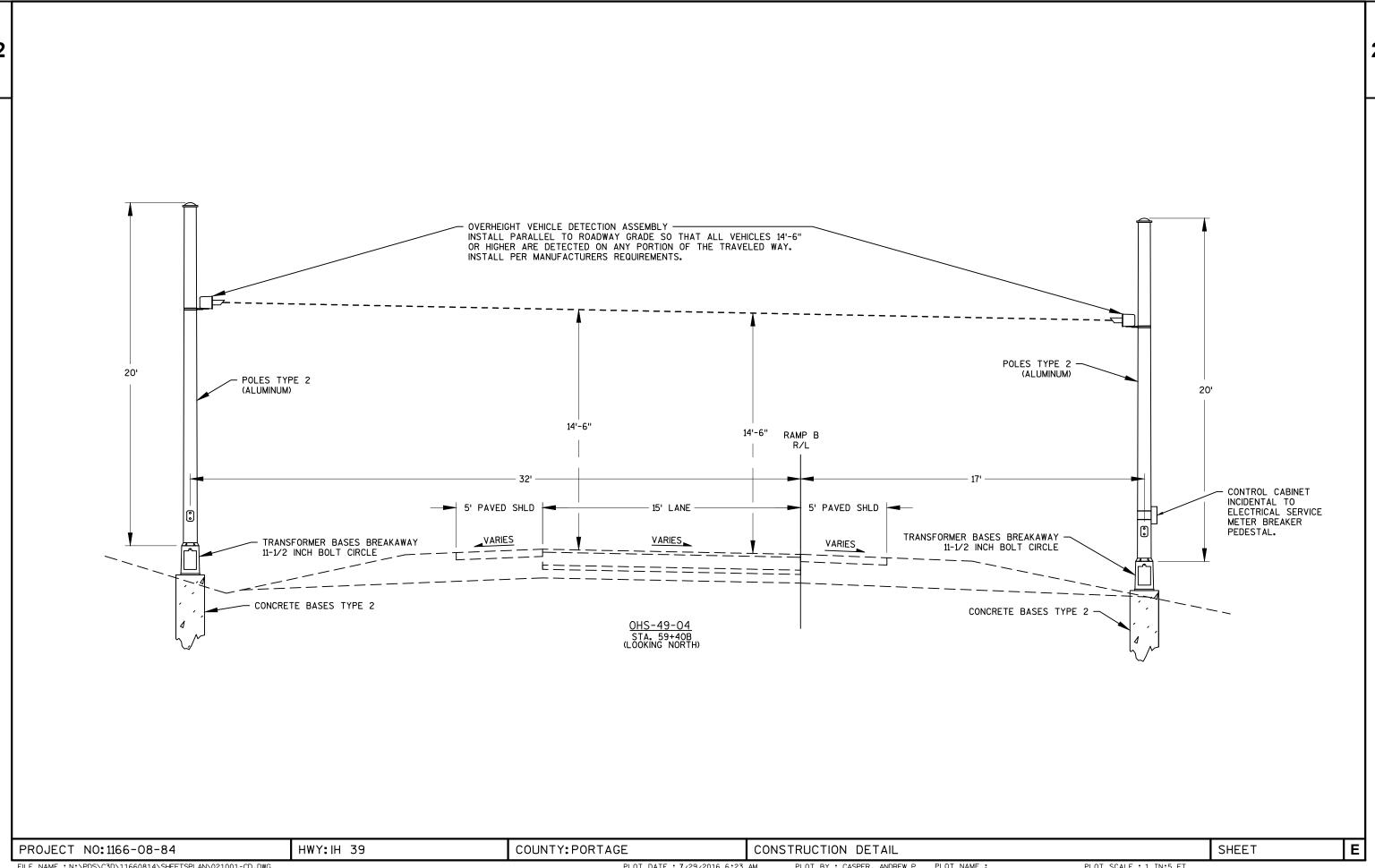
STA. 150+85WB TO 156+64WB

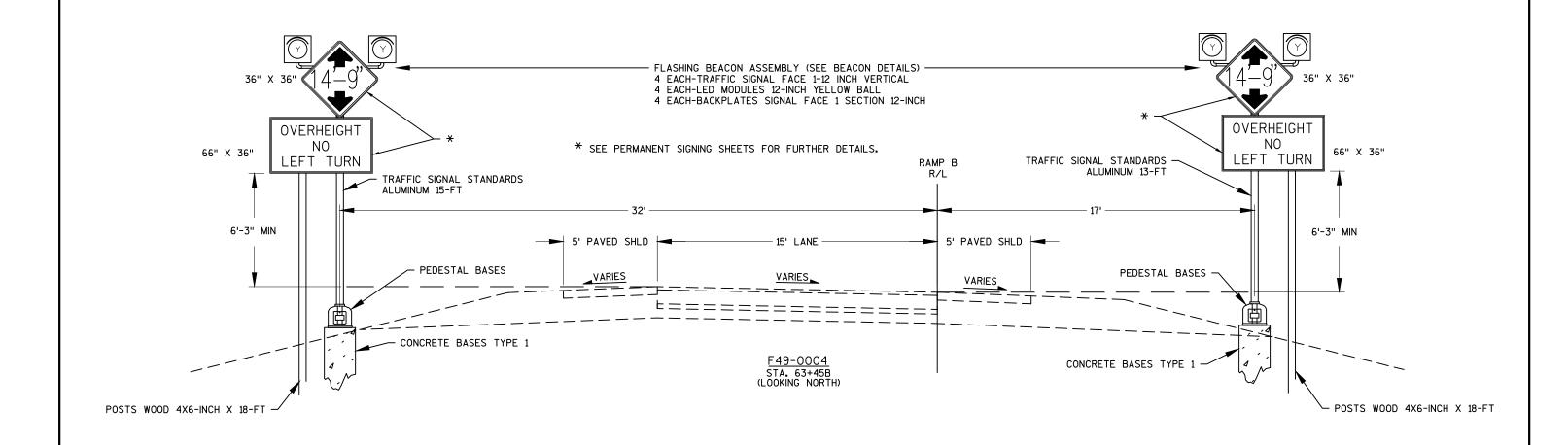


EXISTING TYPICAL SECTION - IH 39NB OFF RAMP STA. 59+40B TO STA. 63+45B



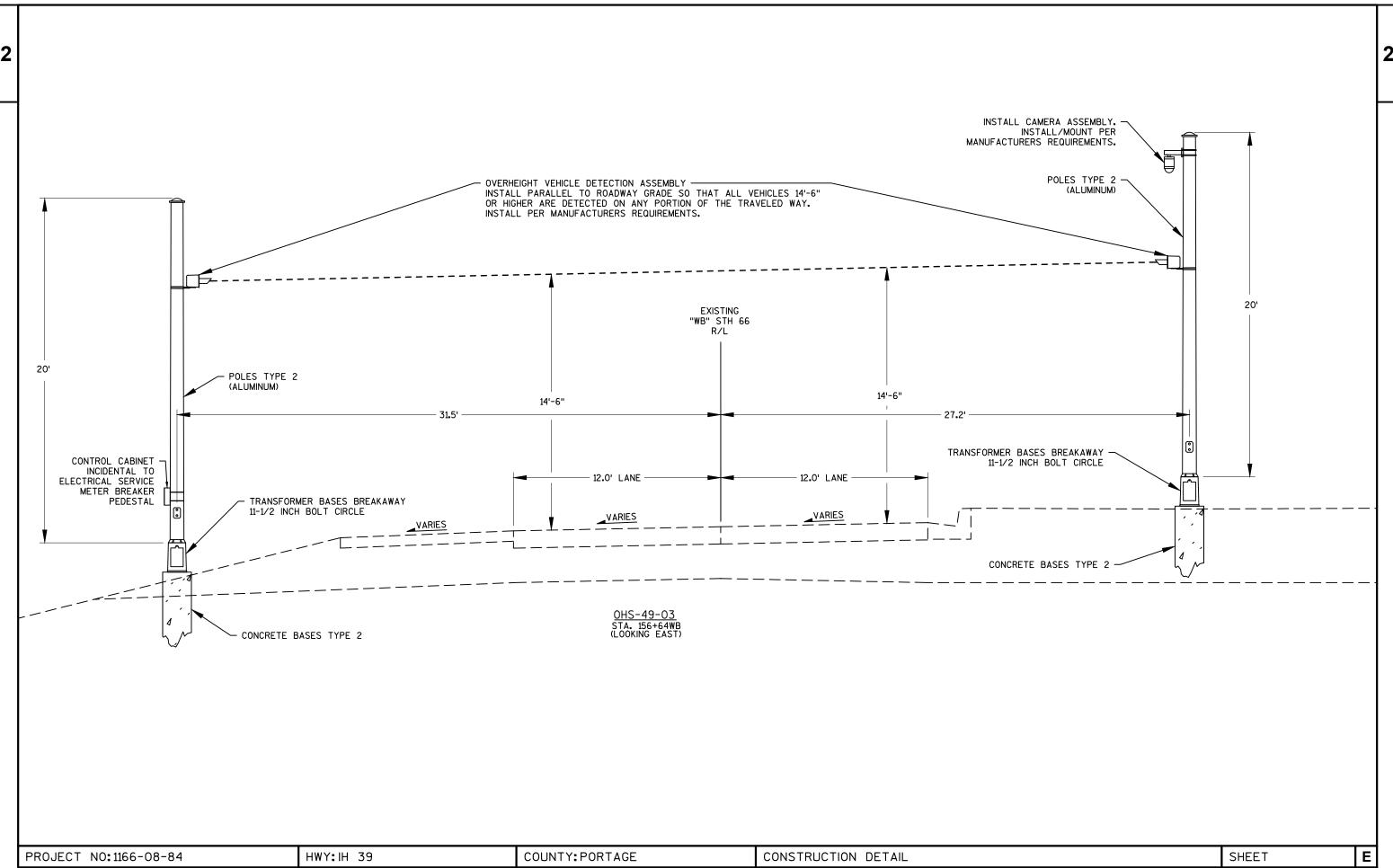
<u>SHOULDER DETAIL A</u> STA. 50+94.98EB TO STA. 54+00EB STA. 150+85WB TO STA. 153+93.66WB

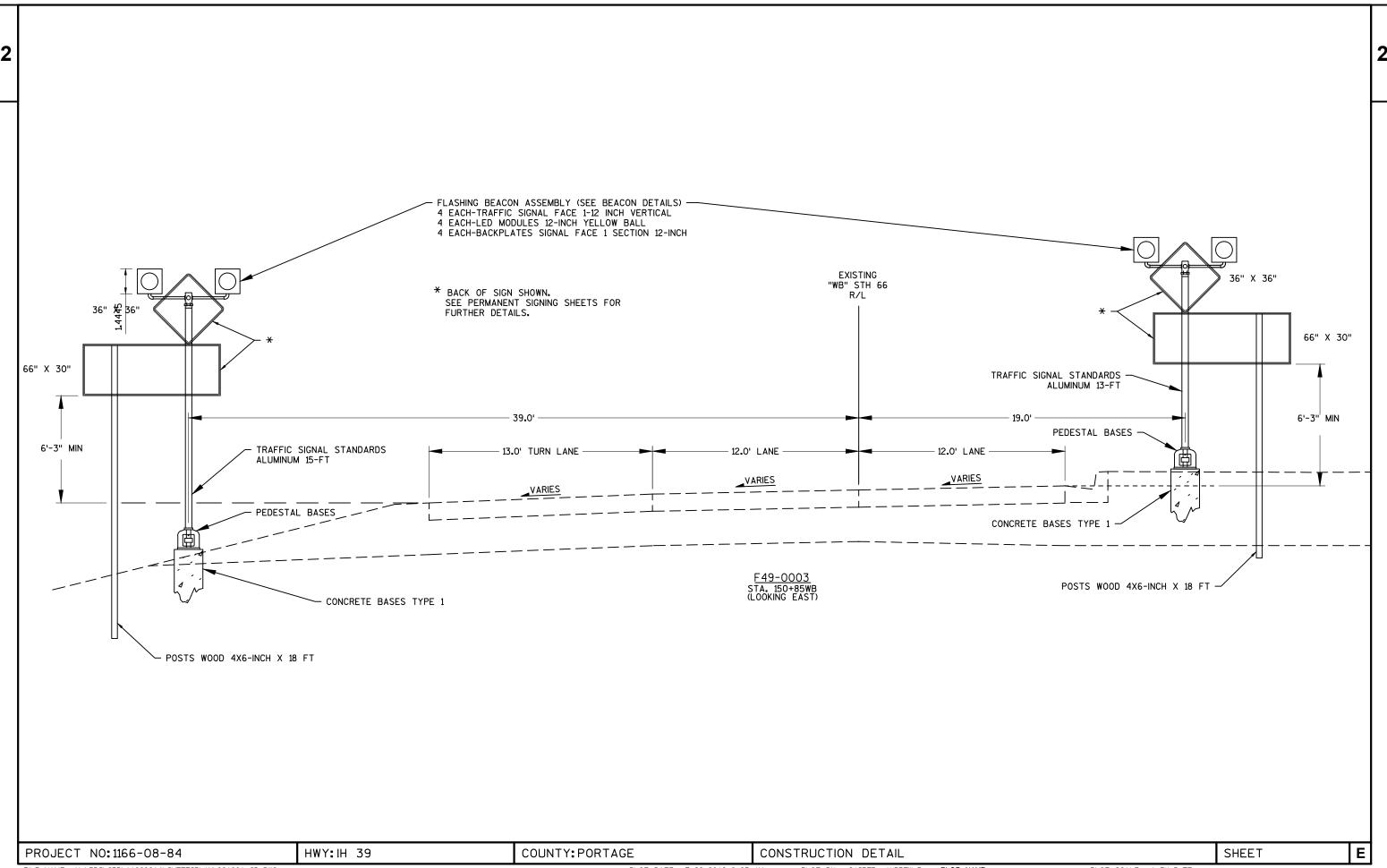




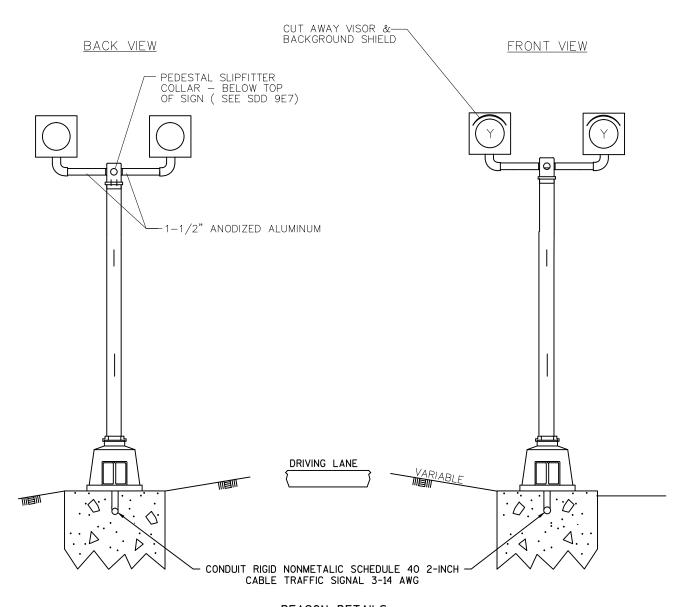
PROJECT NO:1166-08-84 HWY:IH 39 COUNTY: PORTAGE SHEET Ε CONSTRUCTION DETAIL FILE NAME : N:\PDS\C3D\11660814\SHEETSPLAN\021001-CD.DWG

PLOT DATE : 9/19/2016 8:23 AM PLOT BY: SAEGER, GLENN D PLOT NAME: PLOT SCALE : 1 IN:5 FT WISDOT/CADDS SHEET 42





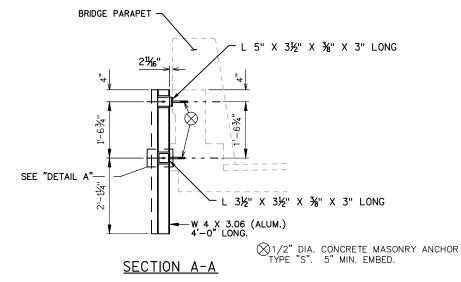
TOP VIEW

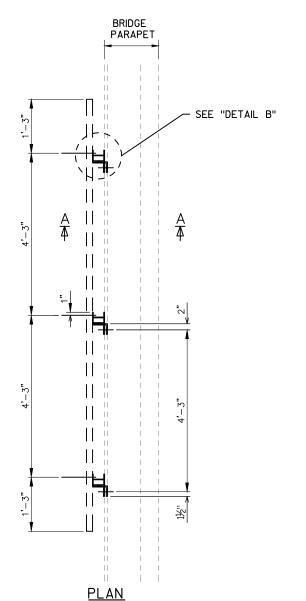


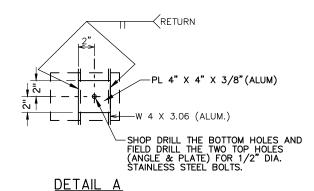
BEACON DETAILS

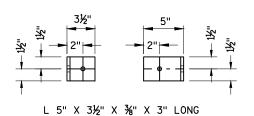
PROJECT NO:1166-08-84 HWY:H 39 COUNTY:PORTAGE CONSTRUCTION DETAIL SHEET **E**

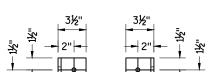




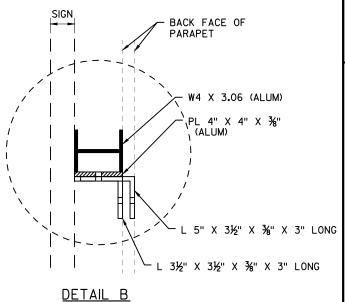








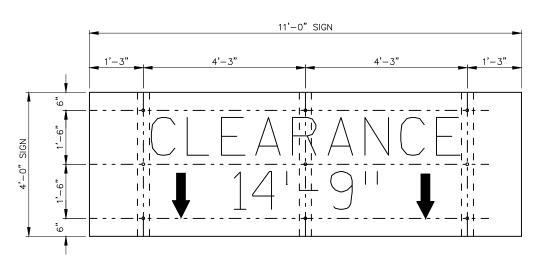
L 3½" X 3½" X ¾" X 3" LONG



WISDOT/CADDS SHEET 42

NOTES:
ALL SIGN MOUNTING SUPPORT MATERIALS
SHALL BE PAID FOR AT THE UNIT BID PRICE FOR
"SIGN MOUNTING SUPPORTS".

DETAILS TYPICAL FOR S-49-21 & S-49-22.



SIGN ELEVATION

PROJECT NO:1166-08-84 HWY: IH 39 COUNTY: PORTAGE CONSTRUCTION DETAIL (SIGN MOUNTING SUPPORTS) SHEET **E**

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

DIMENSION IN INCHES		NON-CO	NDUCTIVE BOX
BOX DIAMETER ** (INSIDE)	А	24	24
BOX OVERALL OUTSIDE DIAMETER	В	2.7	27
BOX LENGTH	С	36	42
FRAME OPENING D		22 1/2	22 1/2
WEIG	НТ	N POUNDS *	:
COVER		50	50
BOX ONLY		75	85

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

GENERAL NOTES

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

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

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

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

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

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

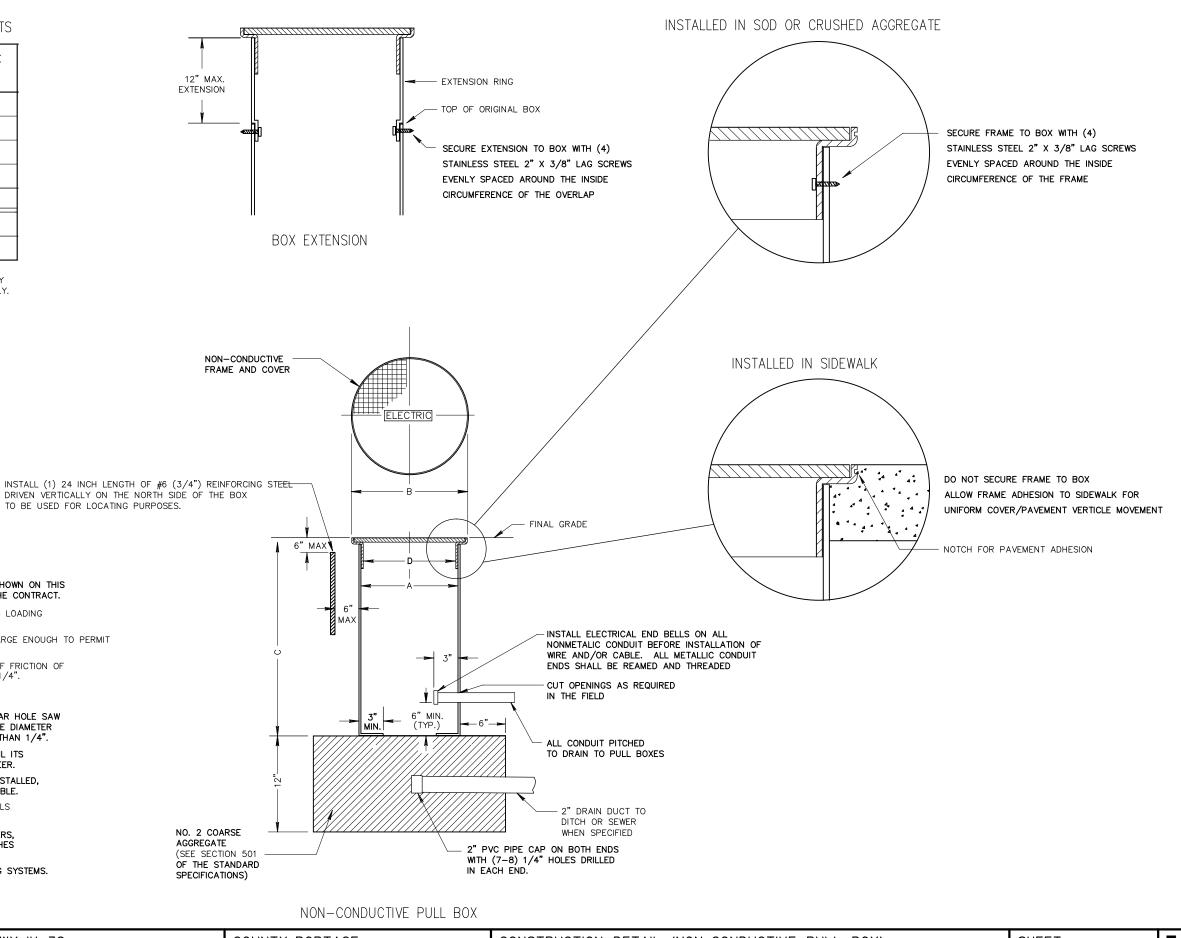
THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

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

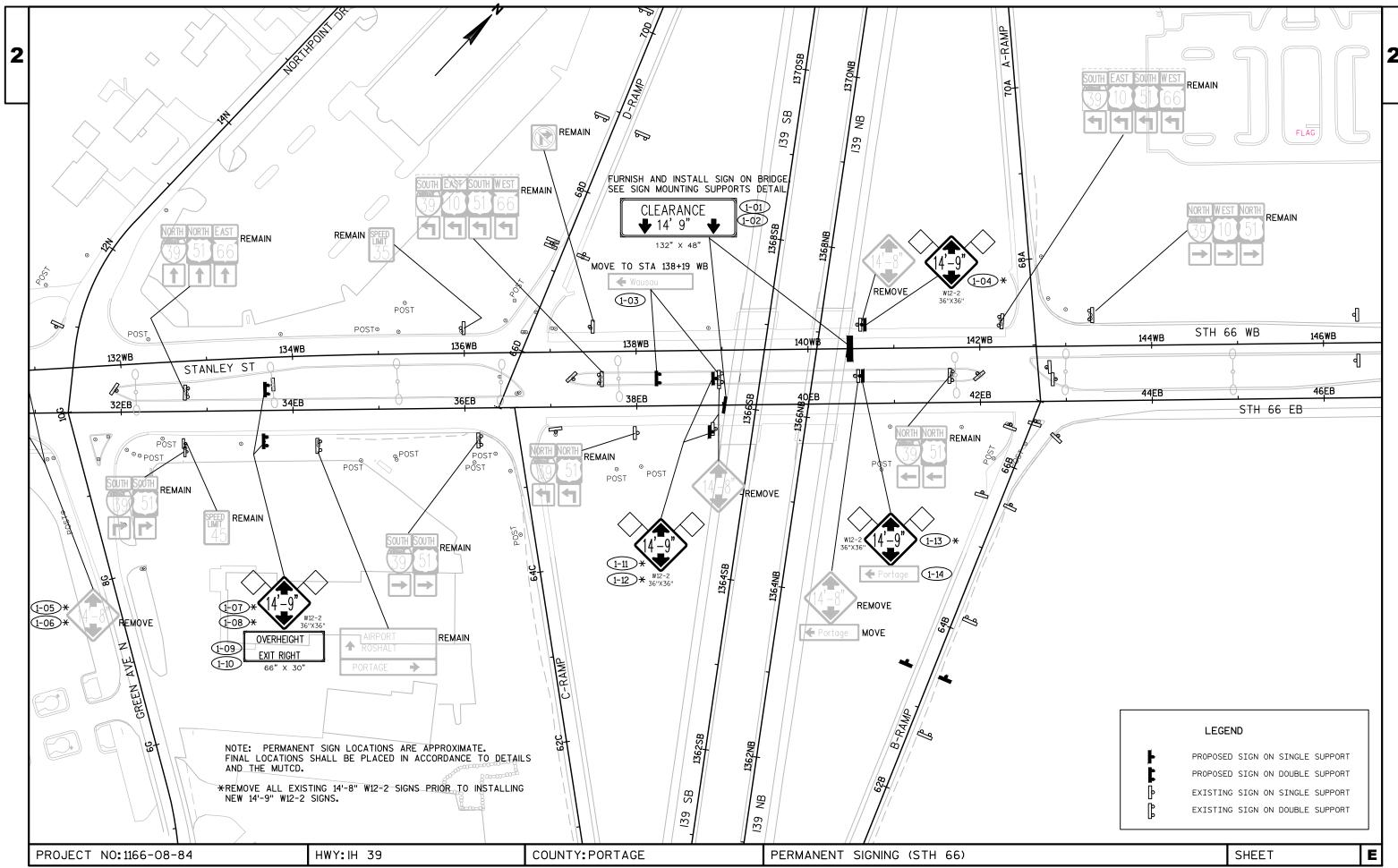
ENTIRE BOX MUST BE CONSTRUCTED OF NON-CONDUCTIVE MATERIALS WITH THE EXCEPTION OF STAINLESS STEEL FASTENERS.

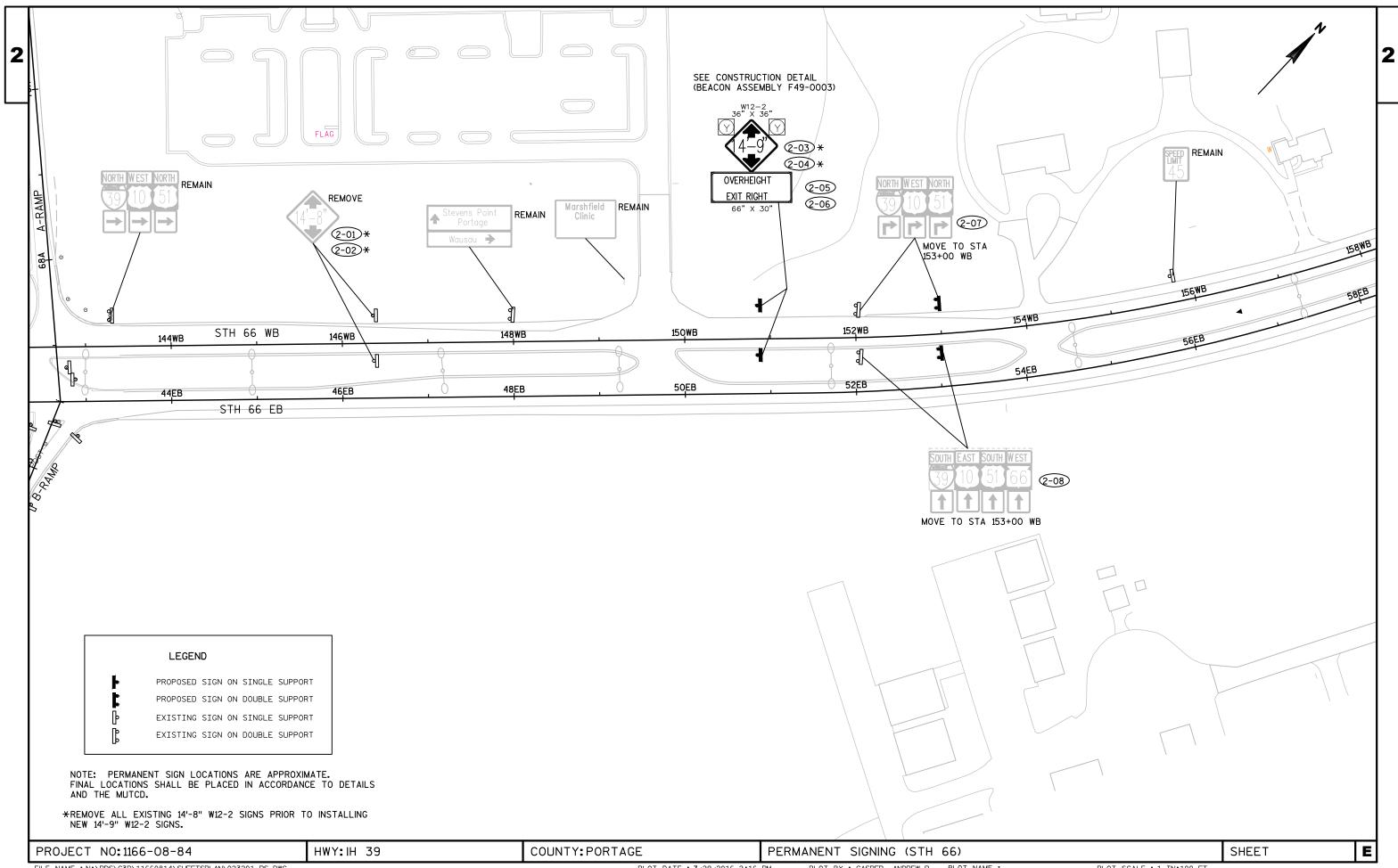
WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE

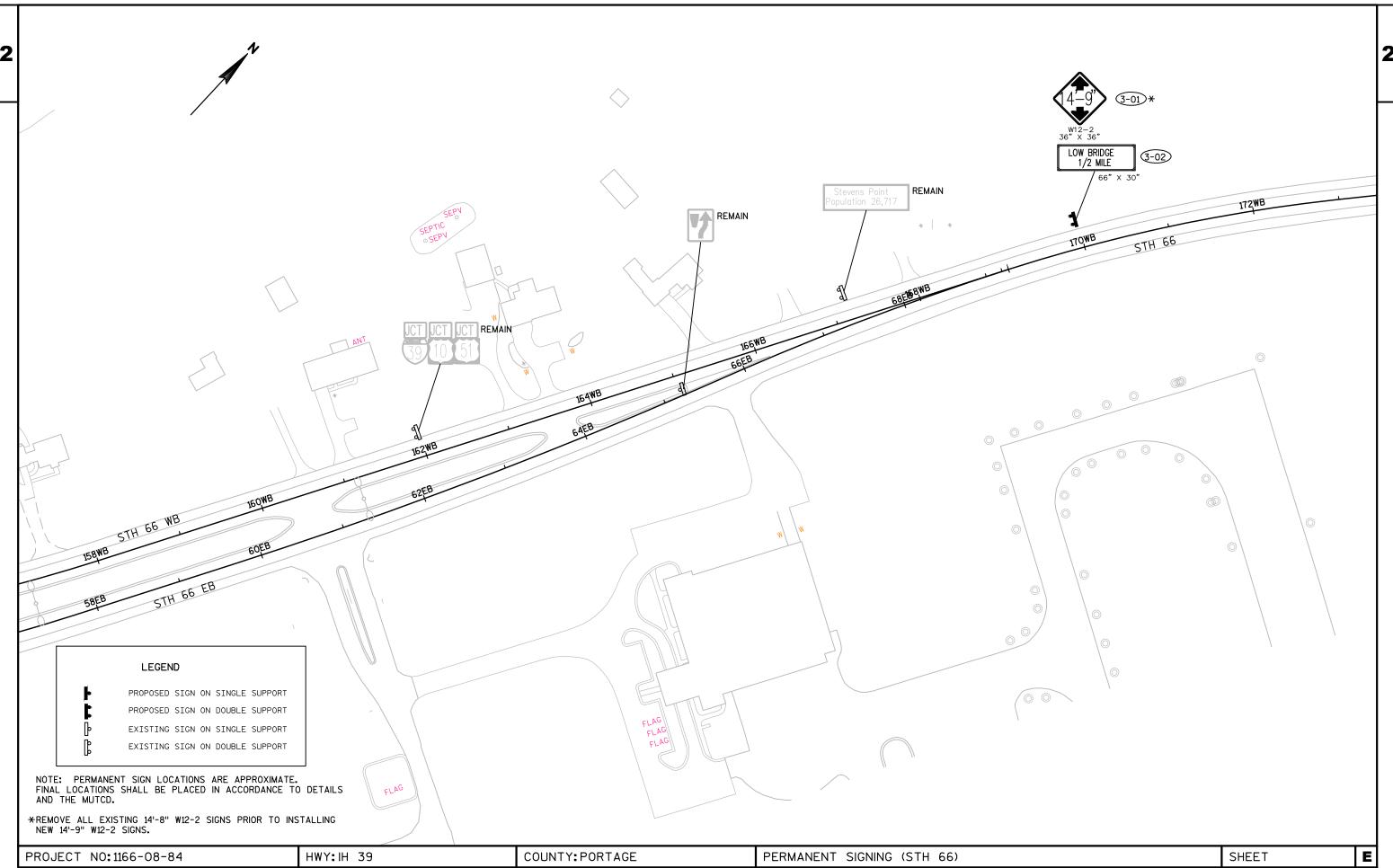
LABEL ON COVER SHALL READ "ELECTRIC" FOR SIGNAL OR LIGHTING SYSTEMS.

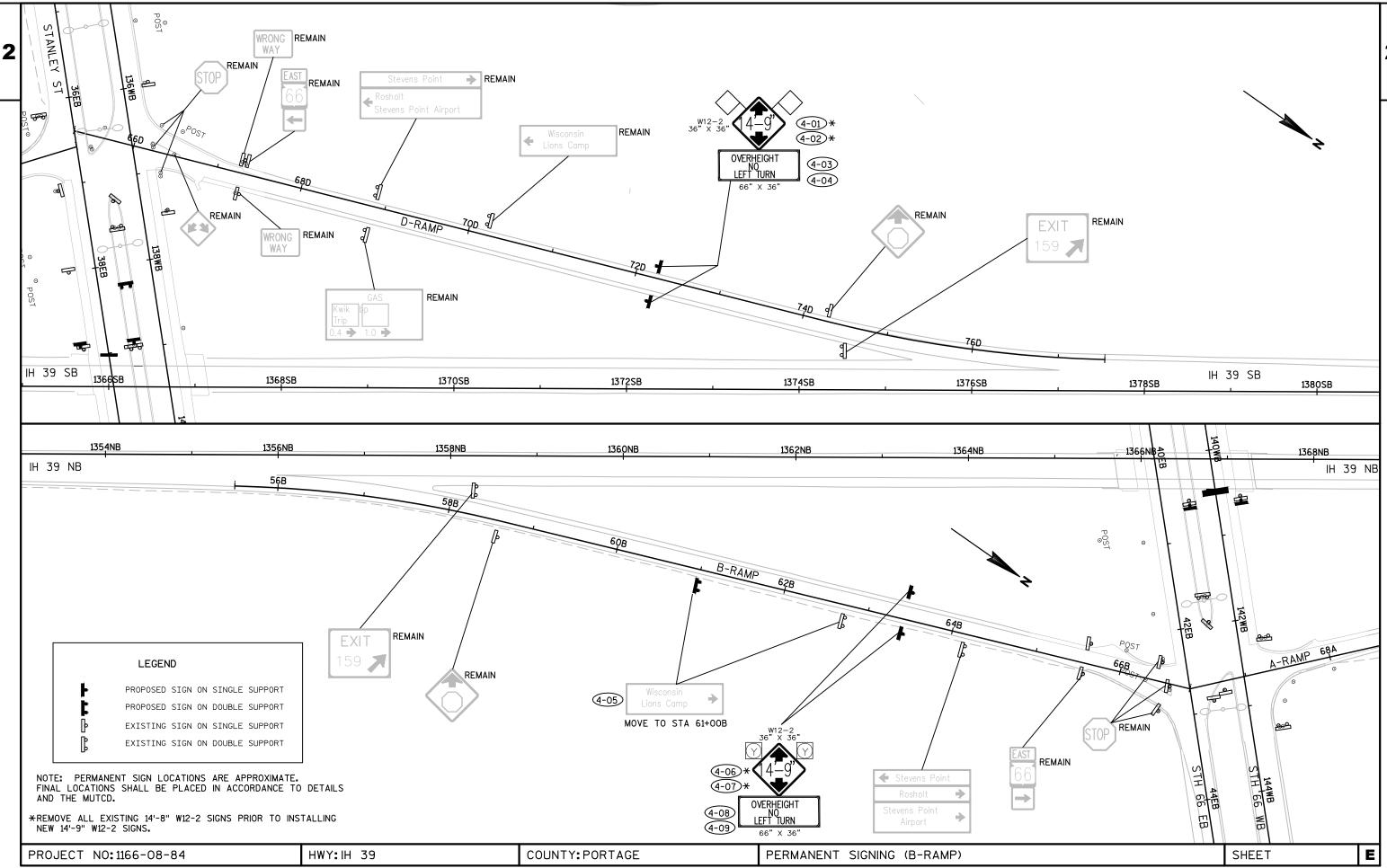


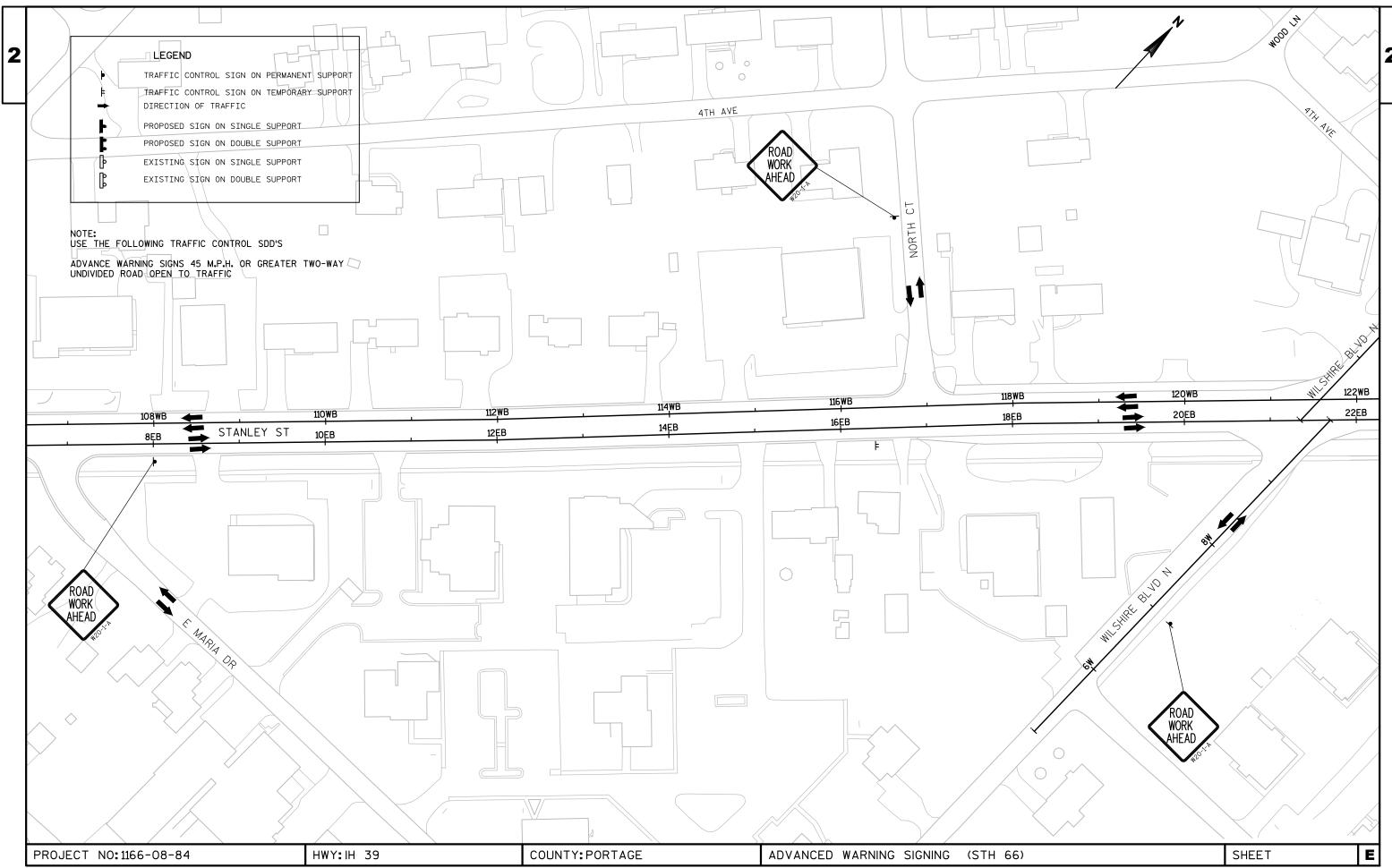
HWY:IH 39 PROJECT NO: 1166-08-84 COUNTY: PORTAGE CONSTRUCTION DETAIL (NON-CONDUCTIVE PULL BOX) SHEET Ε FILE NAME : N:\PDS\C3D\11660814\SHEETSPLAN\021003-CD.DWG PLOT BY : SAEGER, GLENN D PLOT NAME : PLOT DATE : 6/22/2016 2:01 PM PLOT SCALE : 1 IN:12 ft

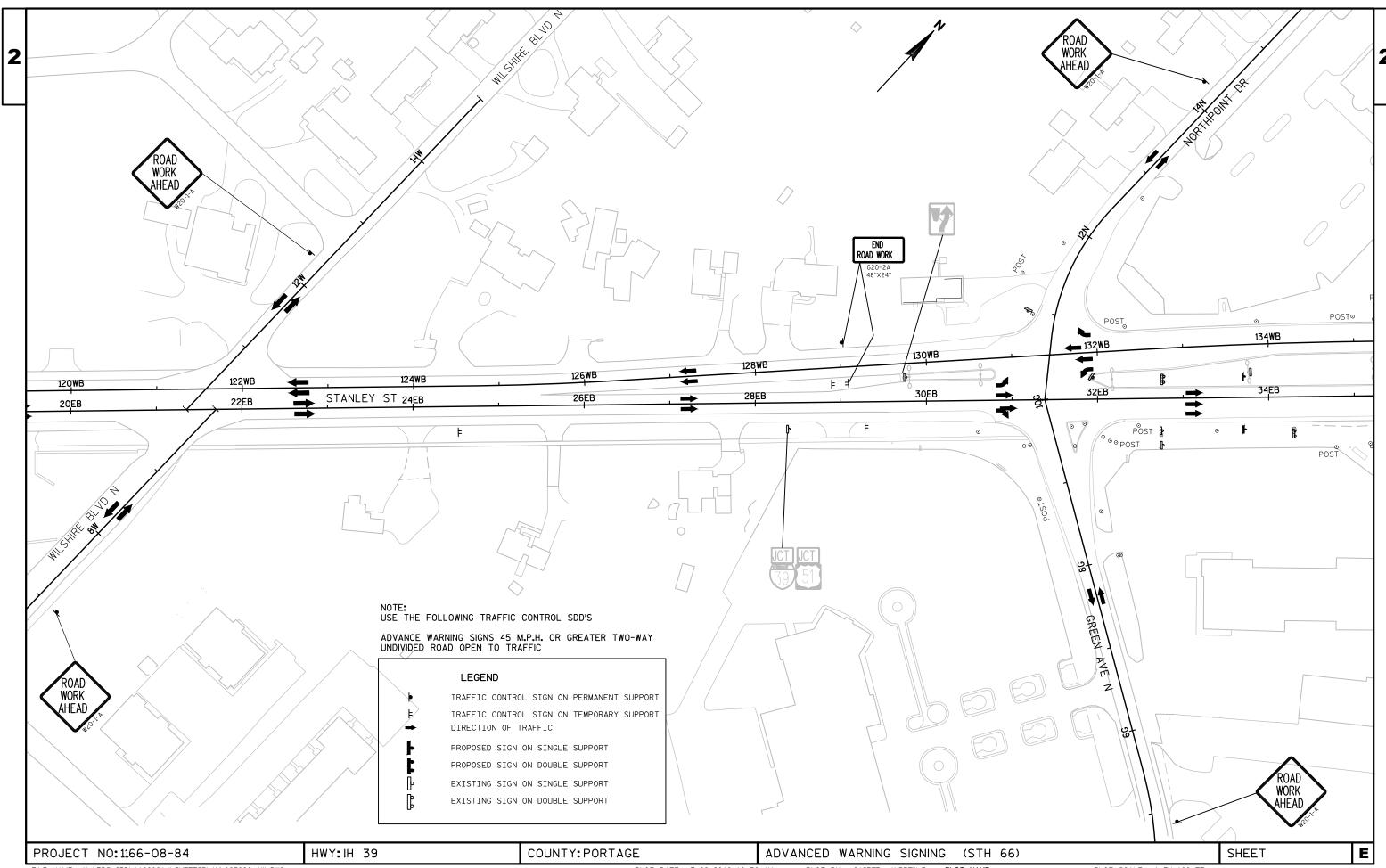


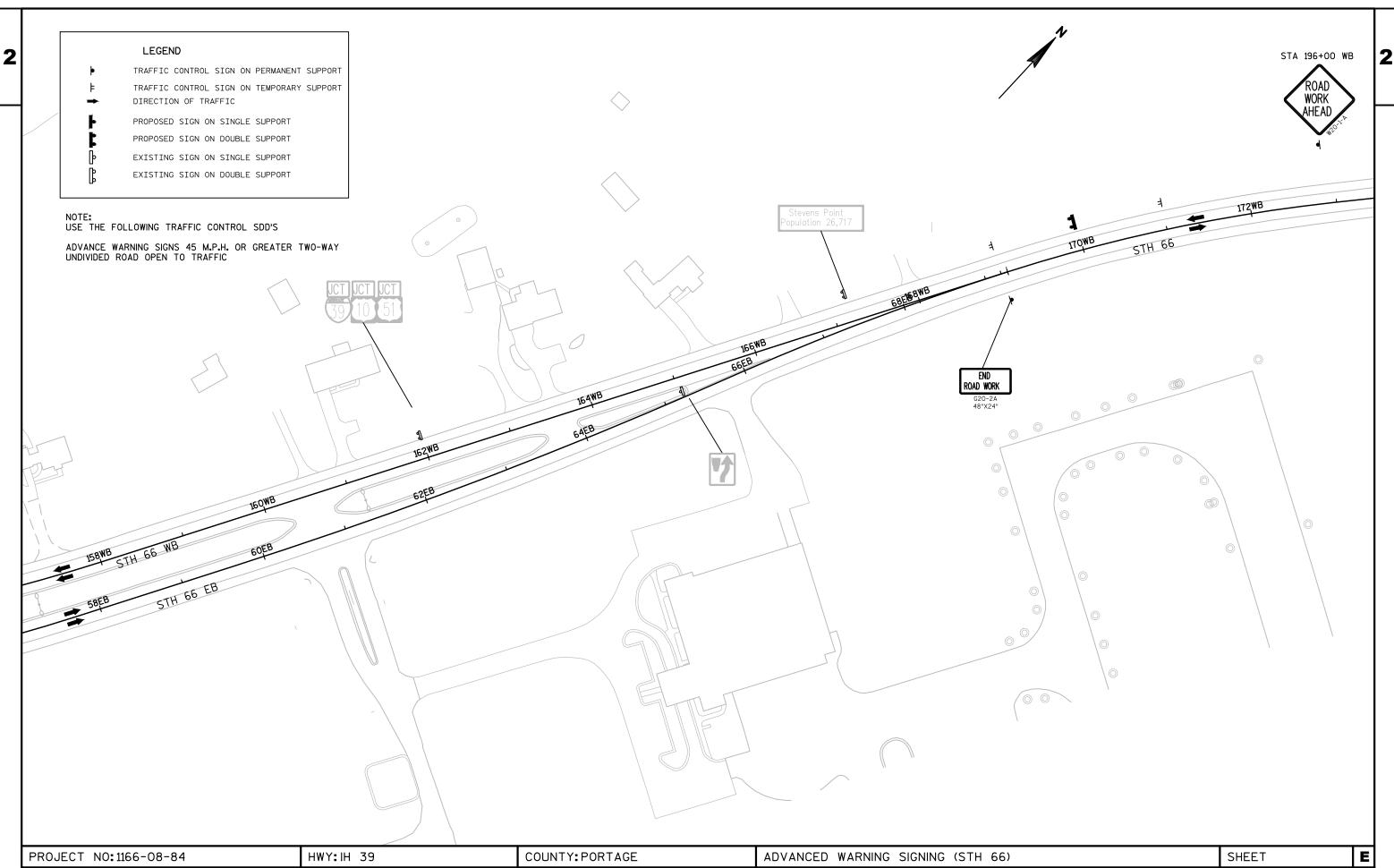


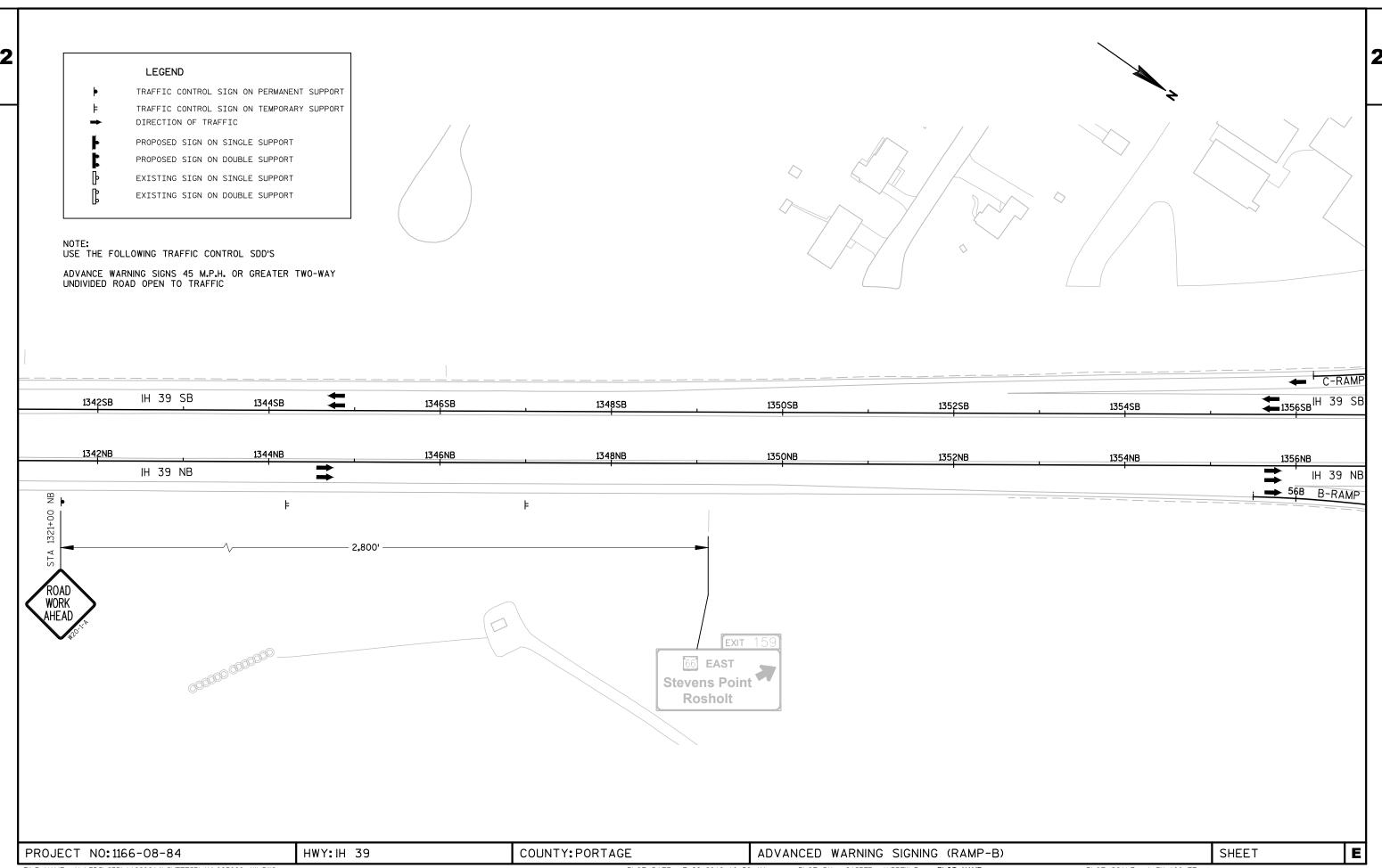


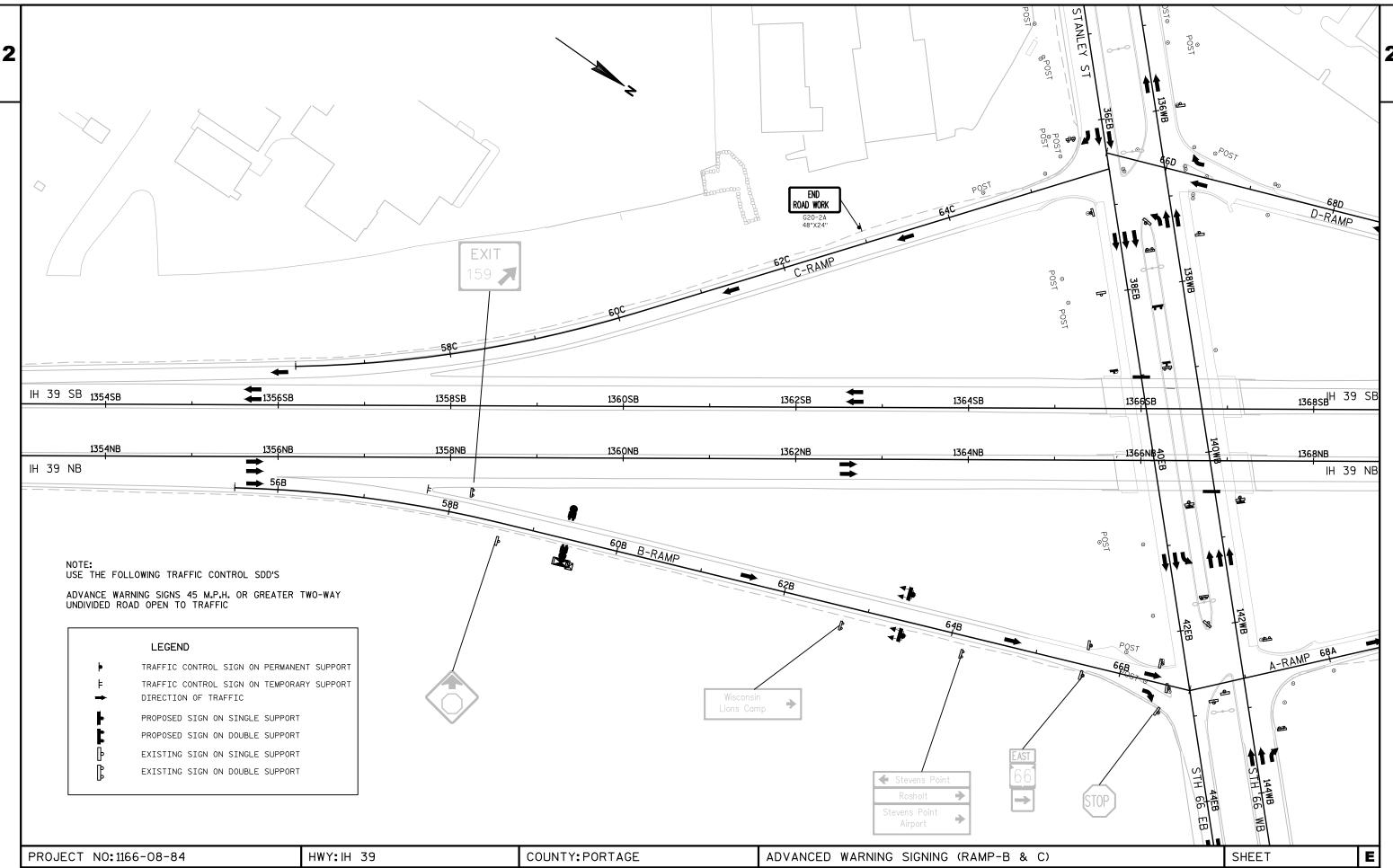


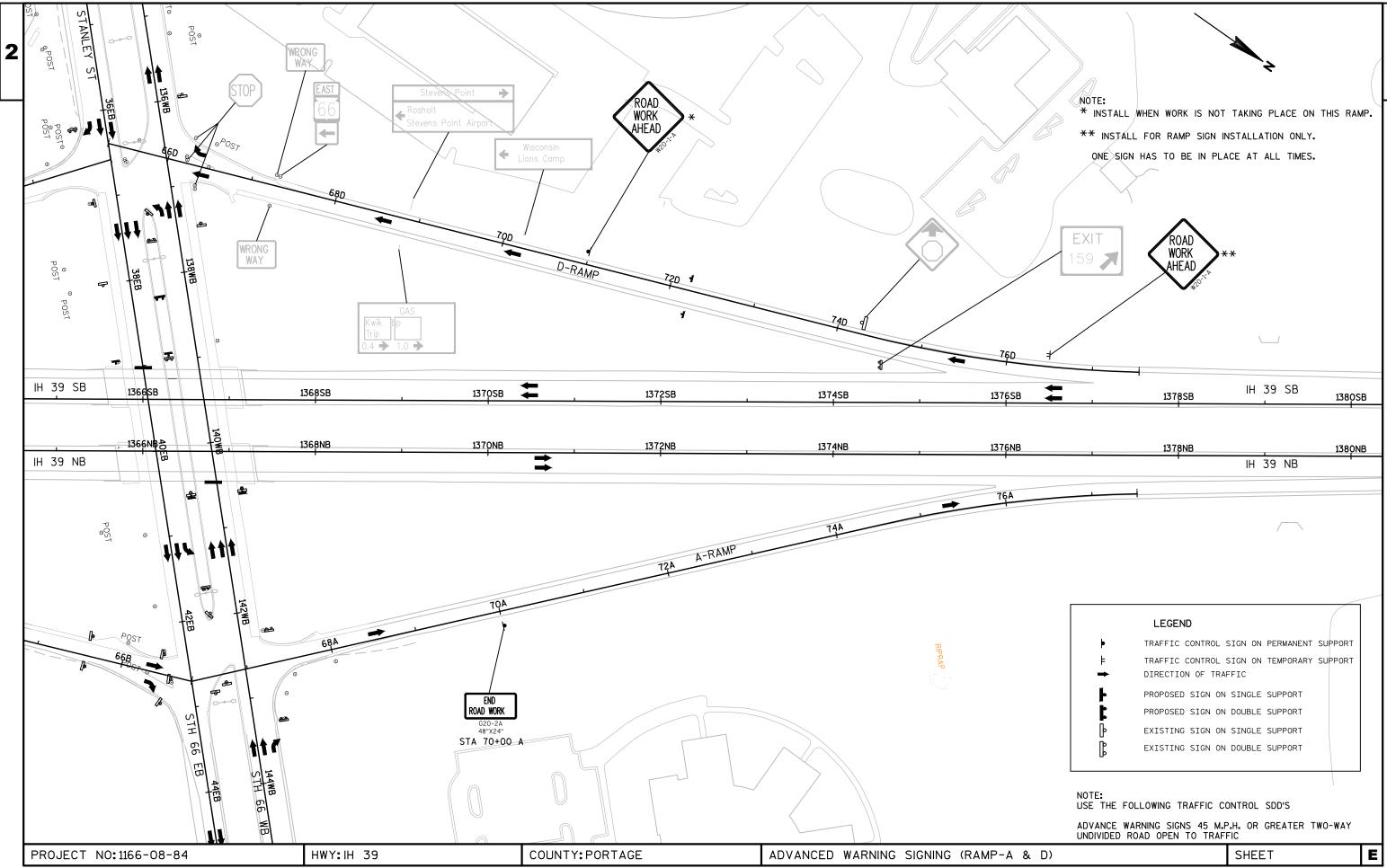


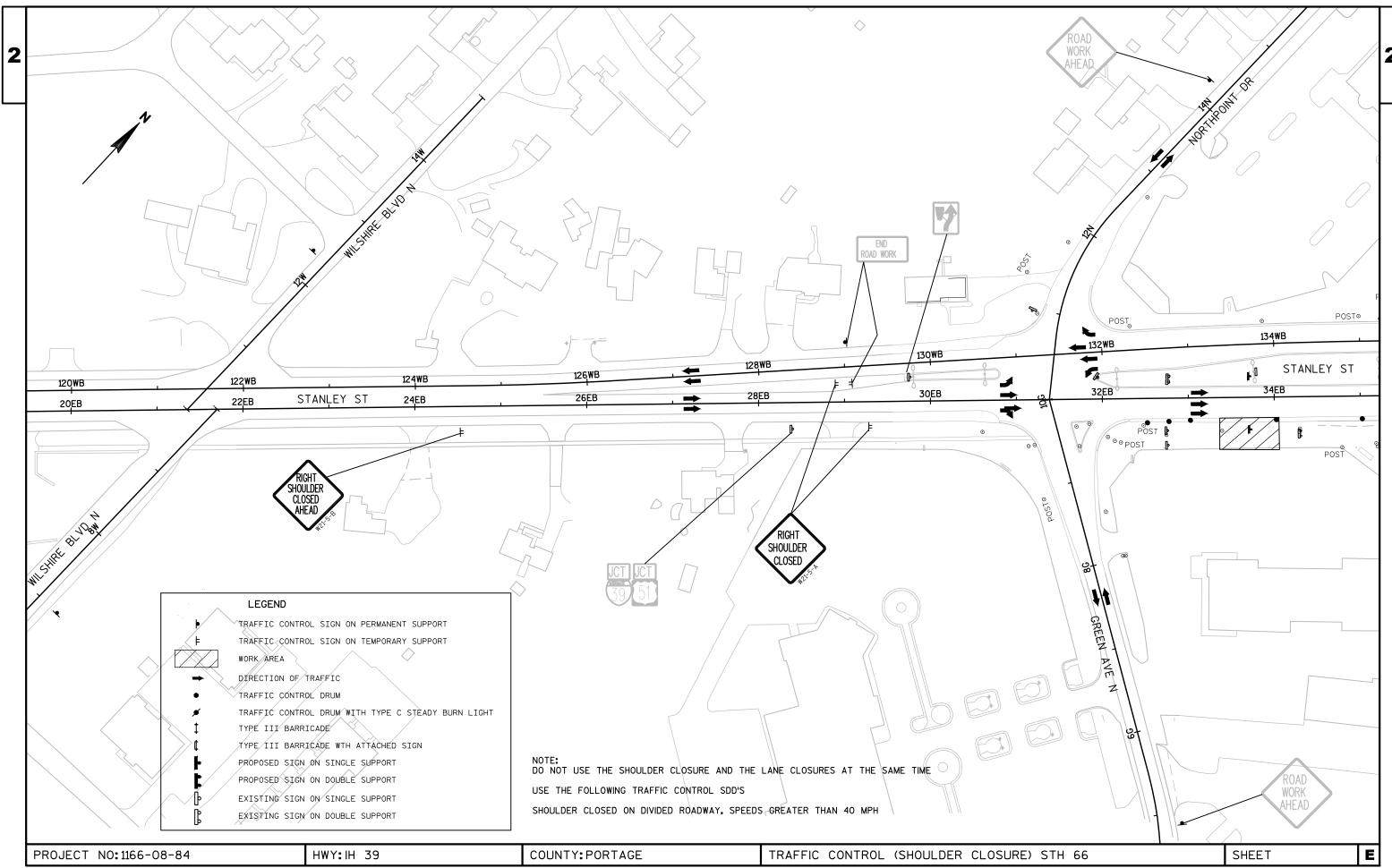


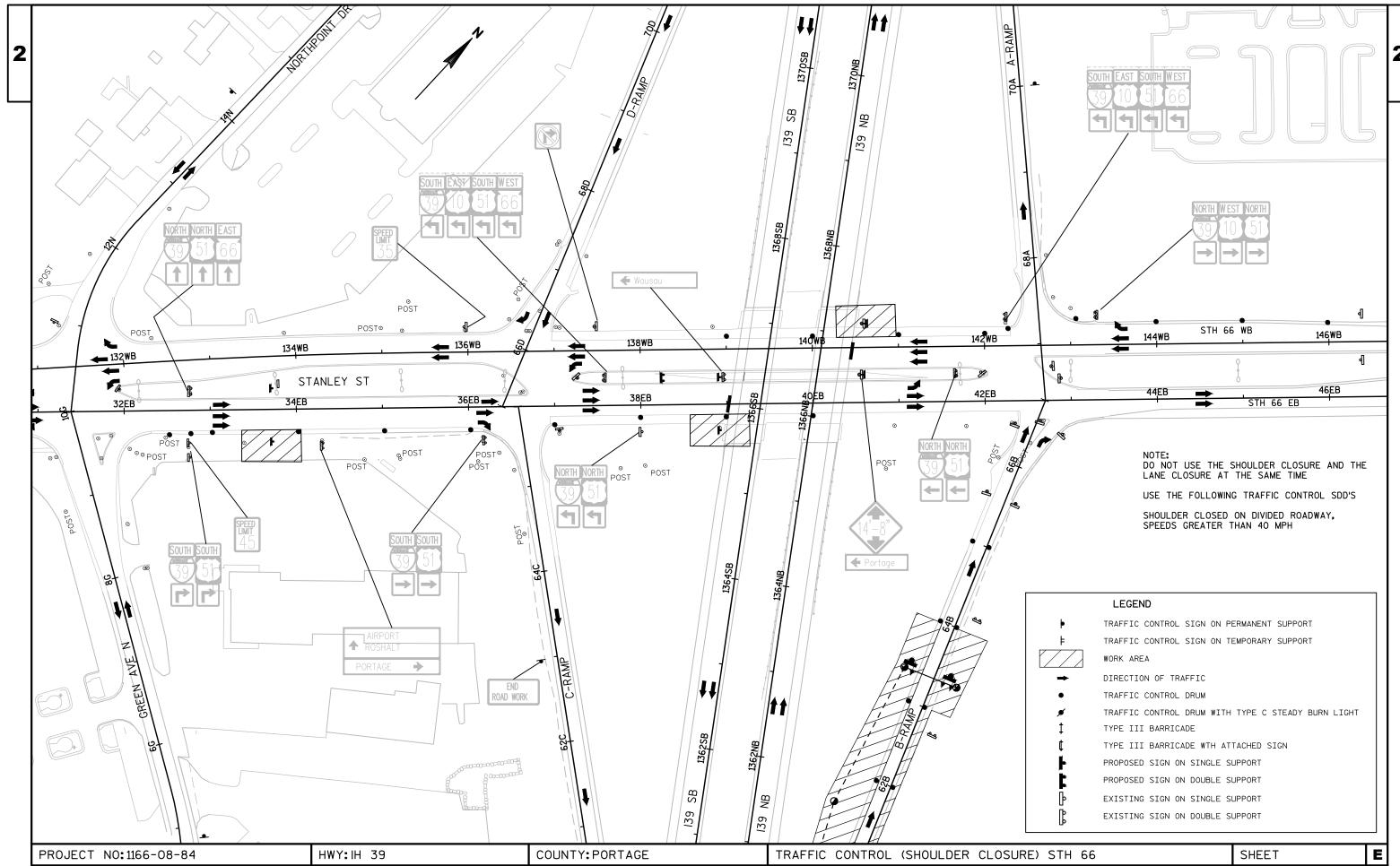


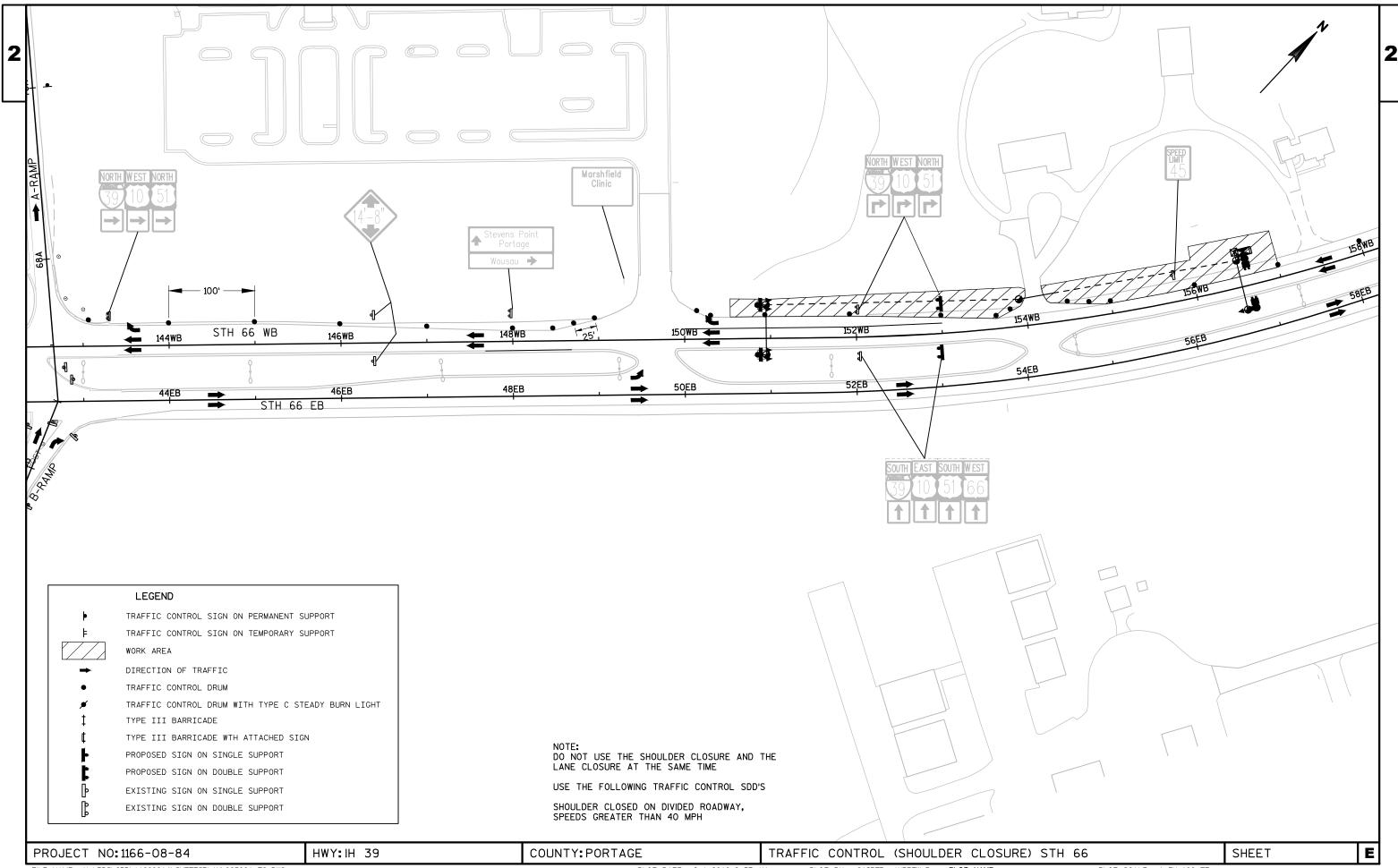


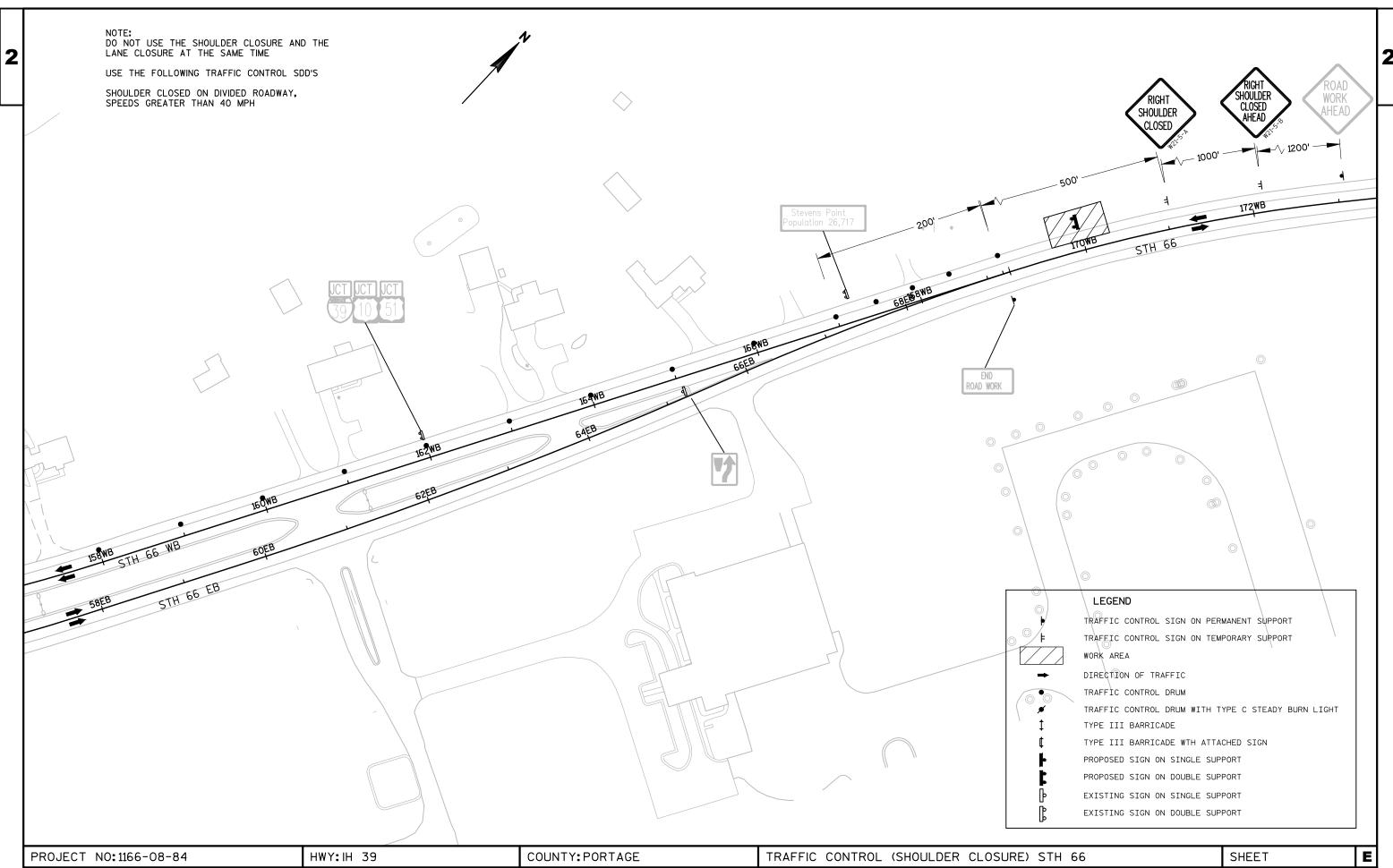


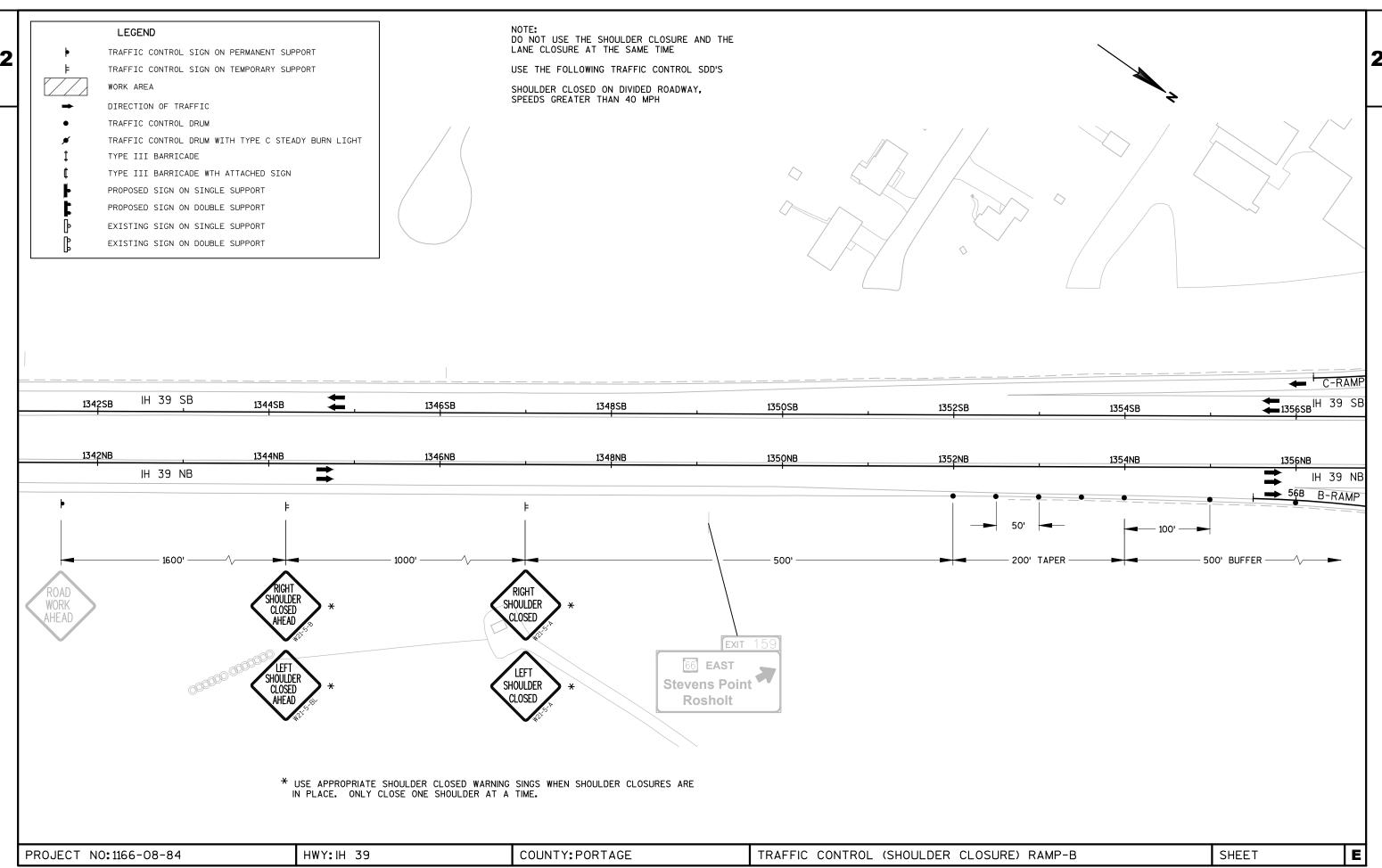


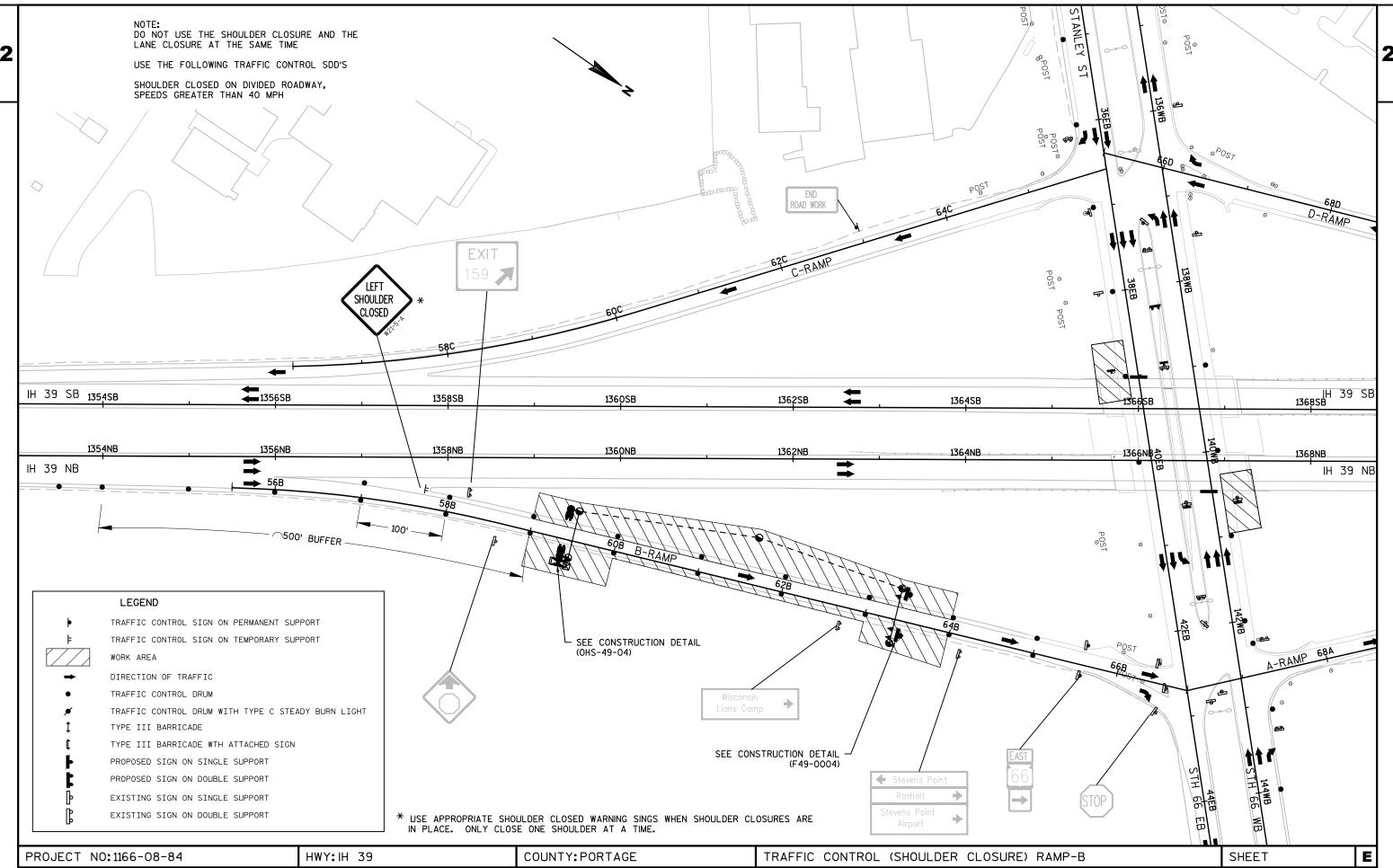


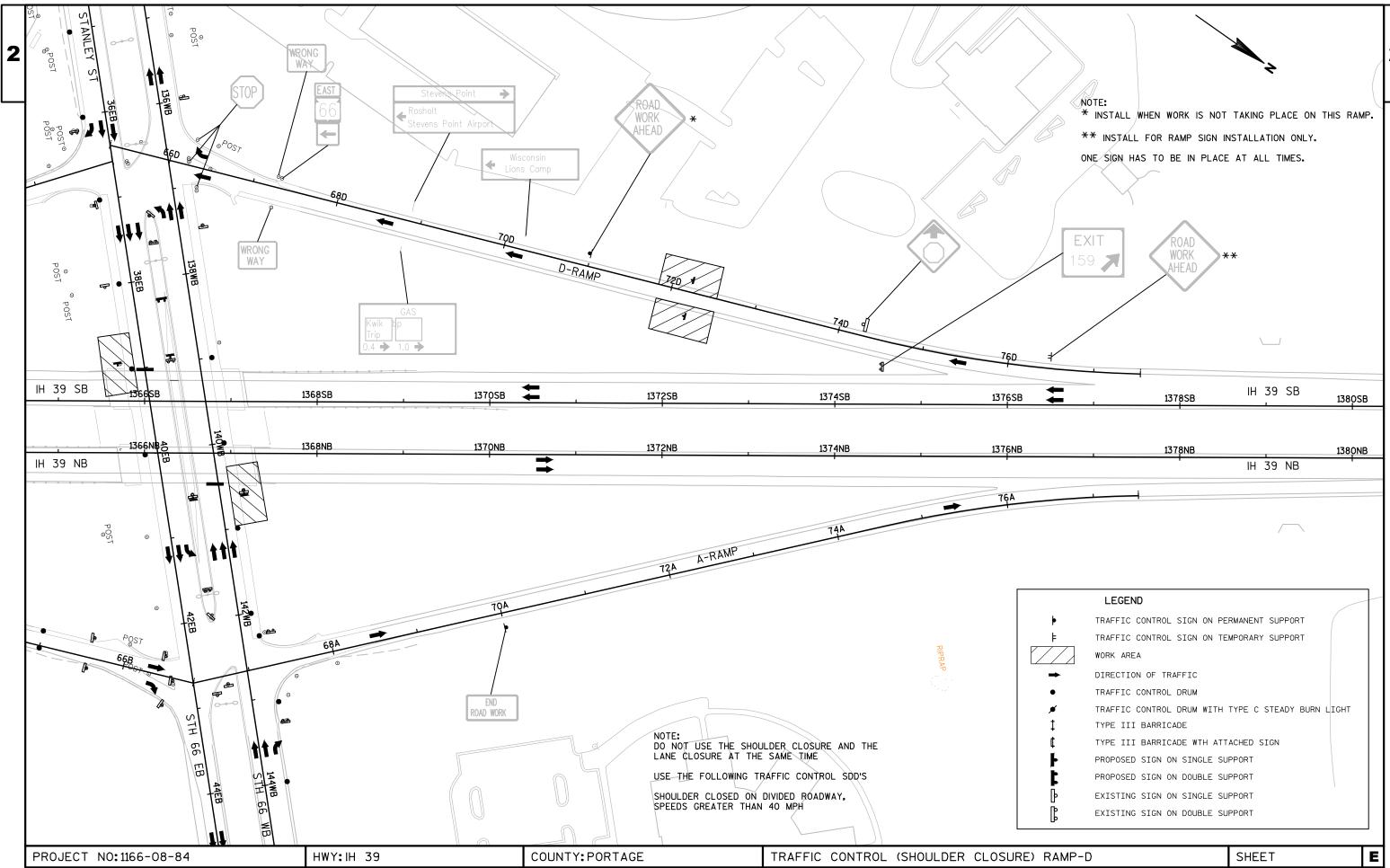


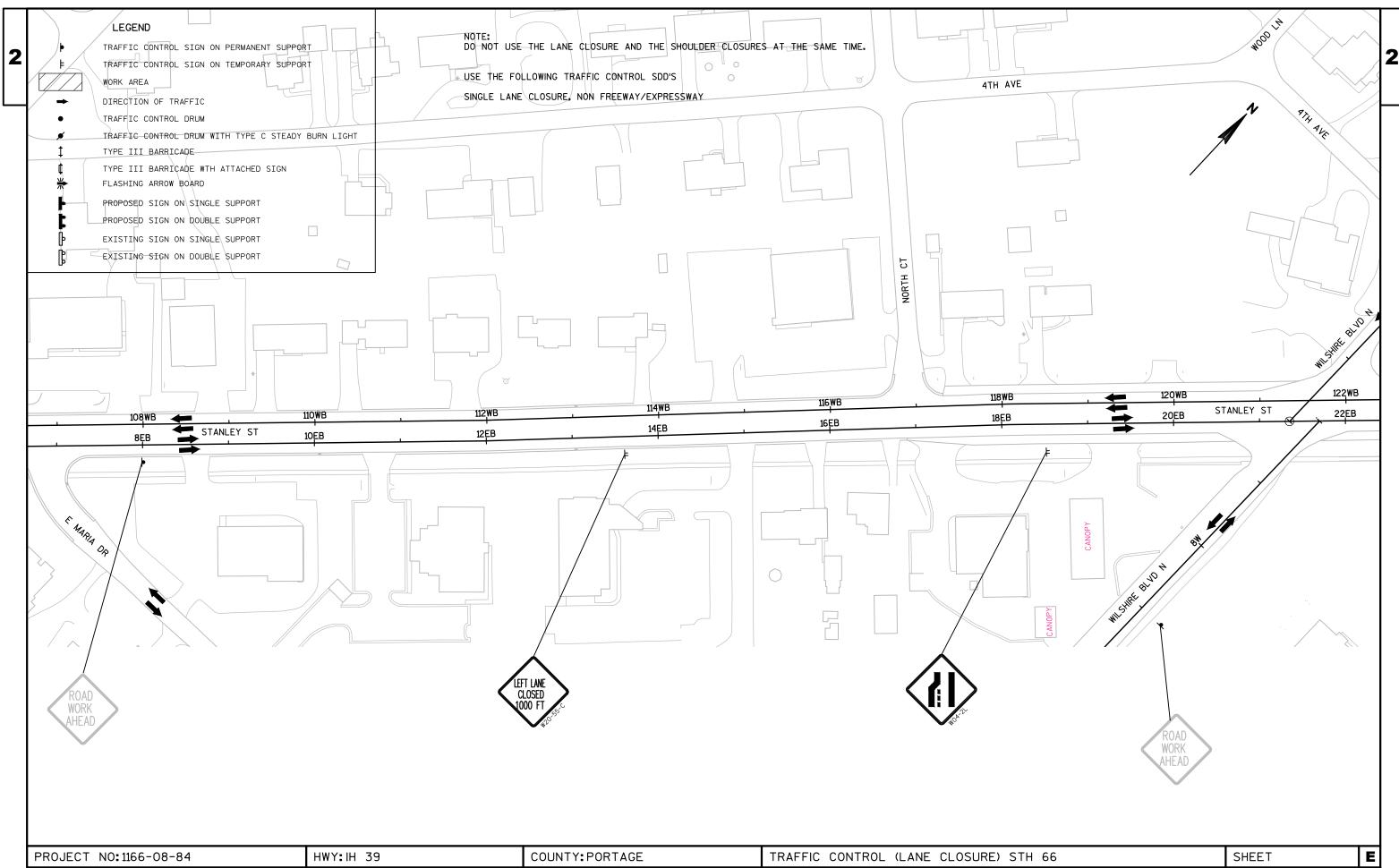


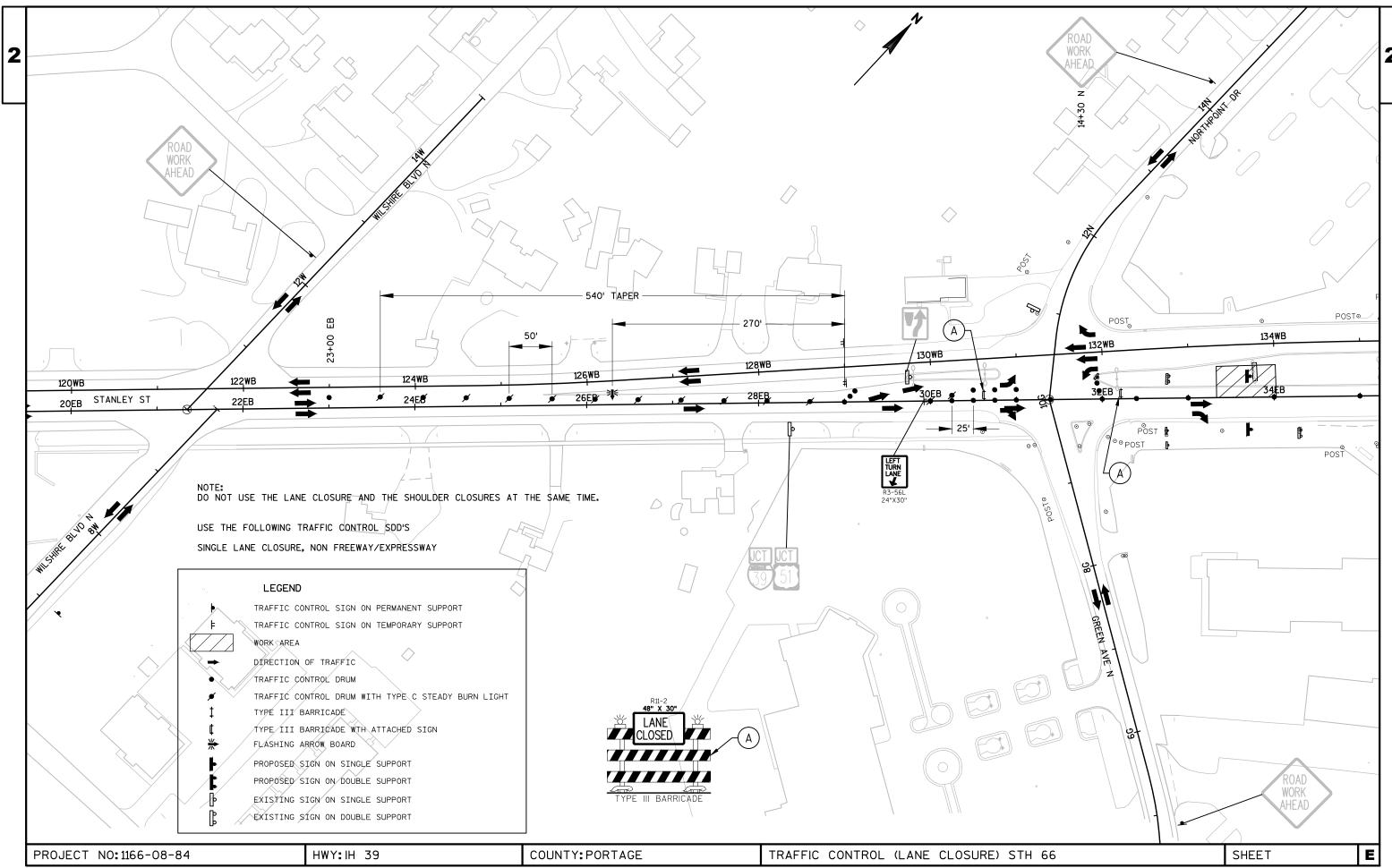


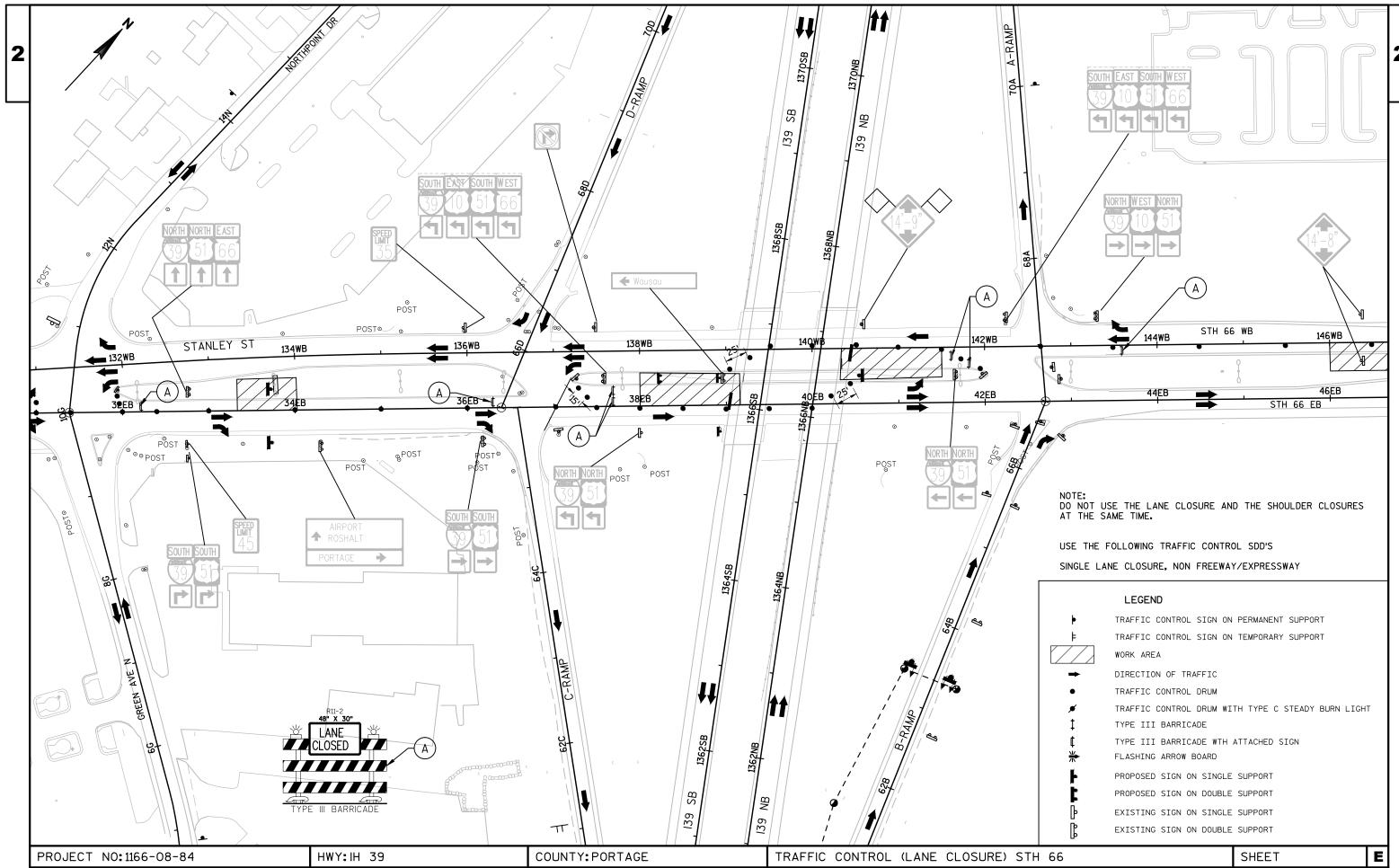


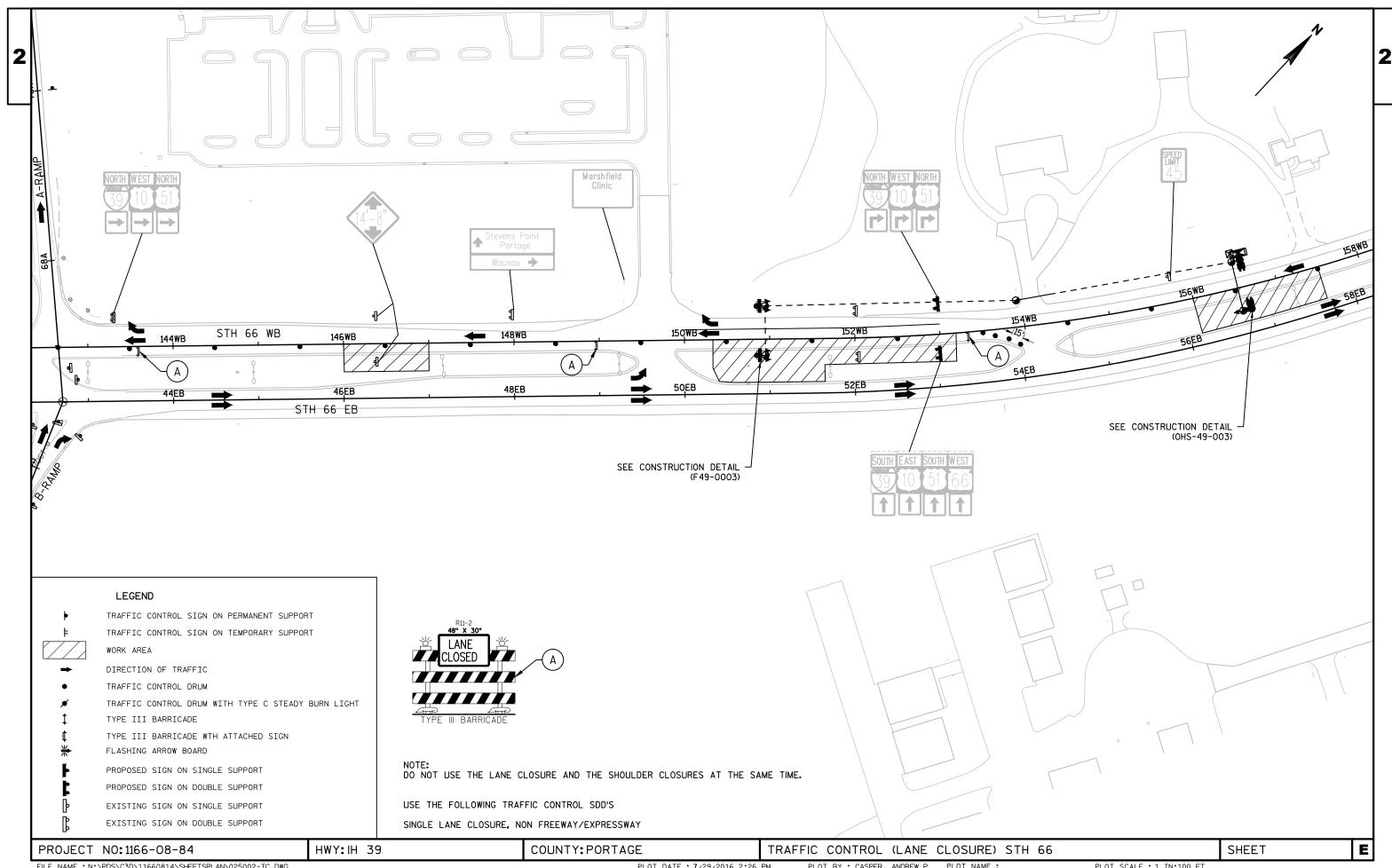


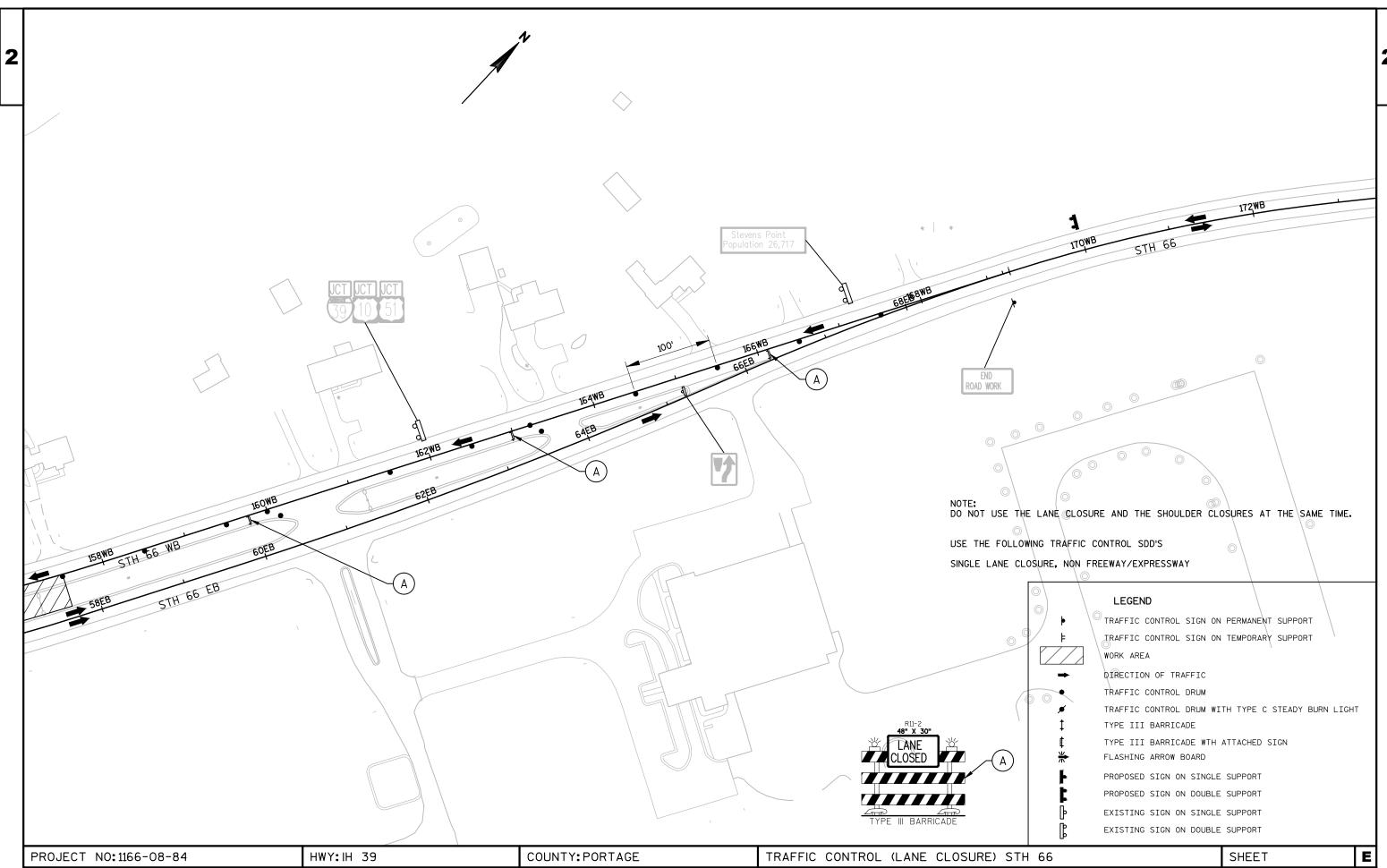












					1166-08-84
Line	Item	Item Description	Unit	Total	Qty
0010	213.0100	Finishing Roadway (project) 01. 1166-08-84	EACH	1.000	1.000
0020	619.1000	Mobilization	EACH	1.000	1.000
0020	625.0100	Topsoil	SY	144.000	144.000
0030	627.0200	Mulching	SY	144.000	144.000
0050	628.1504	Silt Fence	LF	10.000	10.000
0060	628.1520	Silt Fence Maintenance	LF	10.000	10.000
		Mobilizations Erosion Control	EACH		
0070	628.1905			1.000	1.000
0800	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000
0090	629.0210	Fertilizer Type B	CWT	0.100	0.100
0100	630.0130	Seeding Mixture No. 30	LB	3.000	3.000
0110	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	10.000	10.000
0120	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	9.000	9.000
0130	637.0620	Sign Flags Permanent Type II	EACH	16.000	16.000
0140	637.2230	Signs Type II Reflective F	SF	340.000	340.000
0150	638.2102	Moving Signs Type II	EACH	5.000	5.000
0160	638.2602	Removing Signs Type II	EACH	8.000	8.000
0170	638.3000	Removing Small Sign Supports	EACH	7.000	7.000
0180	638.4000	Moving Small Sign Supports	EACH	7.000	7.000
0190	643.0100	Traffic Control (project) 01. 1166-08-84	EACH	1.000	1.000
0200	643.0300	Traffic Control Drums	DAY	2,352.000	2,352.000
0210	643.0420	Traffic Control Barricades Type III	DAY	78.000	78.000
0220	643.0705	Traffic Control Warning Lights Type A	DAY	156.000	156.000
0230	643.0715	Traffic Control Warning Lights Type C	DAY	78.000	78.000
0240	643.0800	Traffic Control Arrow Boards	DAY	6.000	6.000
0250	643.0900	Traffic Control Signs	DAY	746.000	746.000
0260	650.8500	Construction Staking Electrical Installations (project) 01.		1.000	1.000
0260	050.6500	1166-08-84	LS	1.000	1.000
0270	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	1,002.000	1,002.000
0280	652.0605	Conduit Special 2-Inch	LF	281.000	281.000
0290	654.0101	Concrete Bases Type 1	EACH	4.000	4.000
	654.0101	Concrete Bases Type 1 Concrete Bases Type 2	EACH	4.000	4.000
0300		• •			
0310	655.0210	Cable Traffic Signal 3-14 AWG	LF	3,053.000	3,053.000
0320	655.0515	Electrical Wire Traffic Signals 10 AWG	LF	3,664.000	3,664.000
0330	656.0200	Electrical Service Meter Breaker Pedestal (location) 01. 59+40B 17FT RT.		1.000	1.000
0340	656.0200	Electrical Service Meter Breaker Pedestal (location) 02. 156+64WB 31.5FT LT.	LS	1.000	1.000
0350	657.0100	Pedestal Bases	EACH	4.000	4.000
0360	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	4.000	4.000
0370	657.0305	Poles Type 2	EACH	4.000	4.000

0480

0490

SPV.0060

SPV.0060

Special 02. Pull Boxes Non-Conductive 24x42-Inch

Special 03. Sign Mounting Supports

Page 2 **Estimate Of Quantities**

Item	Item Description	Unit	Total	Qty
057.0400	Troffic Circust Chandrade Alveriages 40 FT	FACIL	2.000	2.000
657.0420	Traffic Signal Standards Aluminum 13-F I	EACH	2.000	2.000
657.0425	Traffic Signal Standards Aluminum 15-FT	EACH	2.000	2.000
658.0103	Traffic Signal Face 1-12 Inch Vertical	EACH	8.000	8.000
658.0210	Backplates Signal Face 1 Section 12-Inch	EACH	8.000	8.000
658.0605	Led Modules 12-Inch Yellow Ball	EACH	8.000	8.000
658.5069	Signal Mounting Hardware (location) 01. IH39 & Stanley St/STH 66 Interchange	LS	1.000	1.000
670.0100	Field System Integrator	LS	1.000	1.000
670.0200	ITS Documentation	LS	1.000	1.000
677.0200	Install Camera Assembly	EACH	1.000	1.000
SPV.0060	Special 01. Overheight Vehicle Detection Assembly	EACH	2.000	2.000
	657.0420 657.0425 658.0103 658.0210 658.0605 658.5069 670.0100 670.0200 677.0200	657.0420 Traffic Signal Standards Aluminum 13-FT 657.0425 Traffic Signal Standards Aluminum 15-FT 658.0103 Traffic Signal Face 1-12 Inch Vertical 658.0210 Backplates Signal Face 1 Section 12-Inch 658.0605 Led Modules 12-Inch Yellow Ball 658.5069 Signal Mounting Hardware (location) 01. IH39 & Stanley St/STH 66 Interchange 670.0100 Field System Integrator 670.0200 ITS Documentation 677.0200 Install Camera Assembly	657.0420 Traffic Signal Standards Aluminum 13-FT EACH 657.0425 Traffic Signal Standards Aluminum 15-FT EACH 658.0103 Traffic Signal Face 1-12 Inch Vertical EACH 658.0210 Backplates Signal Face 1 Section 12-Inch EACH 658.0605 Led Modules 12-Inch Yellow Ball EACH 658.5069 Signal Mounting Hardware (location) 01. IH39 & Stanley LS St/STH 66 Interchange 670.0100 Field System Integrator LS 670.0200 ITS Documentation LS 677.0200 Install Camera Assembly	657.0420 Traffic Signal Standards Aluminum 13-FT EACH 2.000 657.0425 Traffic Signal Standards Aluminum 15-FT EACH 2.000 658.0103 Traffic Signal Face 1-12 Inch Vertical EACH 8.000 658.0210 Backplates Signal Face 1 Section 12-Inch EACH 8.000 658.0605 Led Modules 12-Inch Yellow Ball EACH 8.000 658.5069 Signal Mounting Hardware (location) 01. IH39 & Stanley St/STH 66 Interchange LS 1.000 670.0100 Field System Integrator LS 1.000 670.0200 ITS Documentation LS 1.000 677.0200 Install Camera Assembly EACH 1.000

10.000

2.000

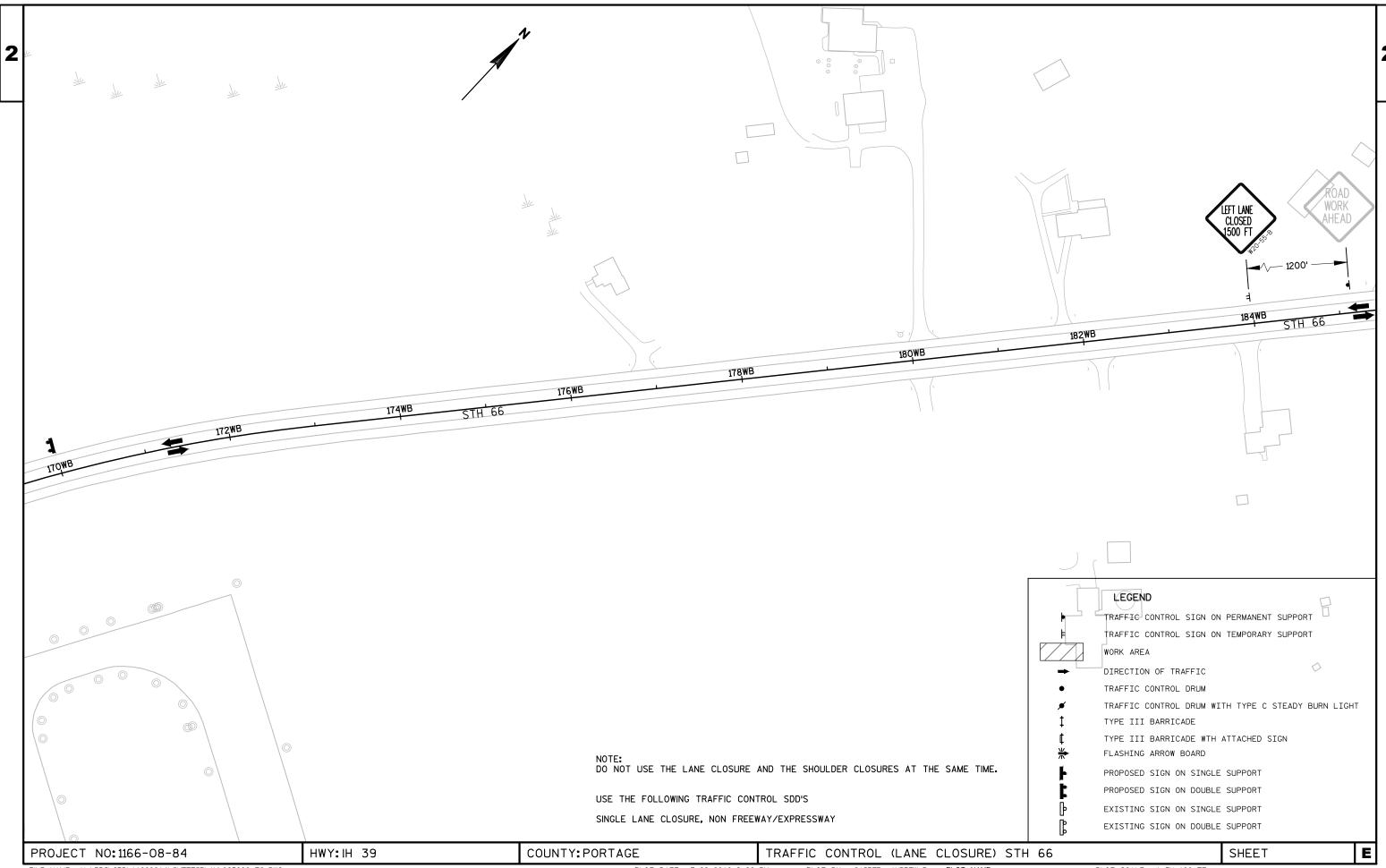
1166-08-84

10.000

2.000

EACH

EACH



TOPSOIL, MULCHING, FERTILIZER, AND SEEDING

			625.0100 TOPSOIL	627.0200 MULCHING	629.0210 FERTILIZER TYPE B	630 SEEDING MIXTURE NO. 30	
_	STATION - STATION	LOCATION	SY	SY	CWT	LB	REMARKS
	UNDISTRIBUTED	1-FT WIDE ABOVE CONDUIT LINES	144	144	0.1	3	
		TOTALS	144	144	0.1	3	

EROSION CONTROL

						628.191	
				628.152	628.1905	MOBILIZATION	
			628.1504	SILT	MOBILIZATION	EMERGENCY	
			SILT	FENCE	EROSION	EROSION	
			FENCE	MAINTENANCE	CONTROL	CONTROL	
	STATION	LOCATION	LF	LF	EACH	EACH	REMARKS
•		UNDISTRIBUTED	10	10	1	1	
		TOTAL 0	40	40			_
		TOTALS	10	10	1	i l	

PROJECT NO: 1166-08-84 HWY: IH 39 COUNTY: PORTAGE MISCELLANEOUS QUANTITIES (SHEET-A) SHEET: **E**

SIGN LISTING

SIGN NO.	SIGN CODE	MESSAGE	SIZE	WOOD PC 634.0616 16-FT EACH	0STS 4" X 6" 634.0618 18-FT EACH	637.0620 SIGN FLAGS PERMANENT TYPE II EACH	637.2230 SIGNS TYPE II REFLECTIVE F SF	638.2102 MOVING SIGNS TYPE II EA	638.2602 REMOVING SIGNS TYPE II EA	REMOVING SMALL SIGN SUPPORTS EA	MOVING SMALL SIGN SUPPORTS EA	SPV.0060.03 SIGN MOUNTING SUPPORTS EACH	REMARKS
1-01		CLEARANCE DOWN ARROWS 14'-9"	132"X48"				44					1	ATTACHED TO BRIDGE
1-02		CLEARANCE DOWN ARROWS 14'-9" LEFT ARROW, WAUSAU	132"X48"				44					1	ATTACHED TO BRIDGE STH 66 EB, MEDIAN
1-03 1-04	W12-2	14'-9"	36"X36"	<u> </u>		2	9	I	1	1	I		STH 66, WB
1-04	VV 1Z-Z	14'-9"	36"X36"				9		1				ATTACHED TO LIGHT POLE
1-05		14'-8"	36"X36"						1	1			STANLEY ST, EB
1-07	W12-2	14'-9"	36"X36"	1	1	2	Q.						STANLEY ST, EB
1-08	W12-2	14'-9"	36"X36"	<u>'</u> 1	1	2	9						STANLEY ST, EB
1-09		OVERHEIGHT, EXIT RIGHT	66"X30"	· 			13.8						SHARE POST WITH SIGN 1-0
1-10		OVERHEIGHT, EXIT RIGHT	66"X30"				13.8						SHARE POST WITH SIGN 1-0
1-11	W12-2	14'-9"	36"X36"	1		2	9		1	1			STANLEY ST, EB
1-12	W12-2	14'-9"	36"X36"	1		2	9		1	1			STANLEY ST, EB
1-13	W12-2	14'-9"	36"X36"	1		2	9		1	1			STH 66, WB, MEDIAN
1-14		LEFT ARROW, PORTAGE	-					1					SHARE POST WITH SIGN 1-
2-01	W12-2	14'-8"	36"X36"						1	1			STH 66 WB
2-02	W12-2	14'-8"	36"X36"						1	1			STH 66 WB
2-03	W12-2	14'-9"	36"X36"				9						BEACON ASSEMBLY F49-00
2-04	W12-2	14'-9"	36"X36"				9						BEACON ASSEMBLY F49-00
2-05		OVERHEIGHT EXIT RIGHT	66"X30"		1		13.8						BEACON ASSEMBLY F49-00
2-06		OVERHEIGHT EXIT RIGHT	66"X30"		1		13.8						BEACON ASSEMBLY F49-00
2-07	J2-3	NORTH 39, WEST 10, NORTH 51						1			2		STH 66 WB
2-08		SOUTH 39, EAST 10, SOUTH 51, WEST 66						1			2		STH 66 WB
3-01	W12-2	14'-9"	36"X36"	1	1		9						STH 66 WB
3-02		LOW BRIDGE 1/2 MILE	66"X30"				13.8						SHARE POST WITH SIGN 3-0
4-01	W12-2	14'-9"	36"X36"	1	1	2	9						D-RAMP
4-02	W12-2	14'-9"	36"X36"	1	1	2	9						D-RAMP
4-03		OVERHEIGHT NO LEFT TURN	66"X36"				16.5						SHARE POST WITH SIGN 4-0
4-04		OVERHEIGHT NO LEFT TURN	66"X36"				16.5						SHARE POST WITH SIGN 4-0
4-05		WISCONSIN LIONS CAMP						1			2		MOVE TO STA 61+00B
4-06	W12-2	14'-9"	36"X36"				9						B-RAMP (F49-0004)
4-07	W12-2	14'-9"	36"X36"				9						B-RAMP (F49-0004)
4-08		OVERHEIGHT NO LEFT TURN	66"X36"		1		16.5						B-RAMP (F49-0004)
4-09		OVERHEIGHT NO LEFT TURN	66"X36"		1		16.5						B-RAMP (F49-0004)
													
													
			TOTALS	10.00	9.00	16.00	340	5.00	8.00	7.00	7.00	2.00	=

FILE NAME: N:PDS/DESIGN_ID/1166-08-14,84_IH39/QUANTITIES/030201-MQ.PPT

PROJECT NO: 1166-08-84

HWY: IH 39

PLOT DATE : ____

COUNTY: PORTAGE

PLOT BY:

MISCELLANEOUS QUANTITIES (SHEET-B)

PLOT NAME :

PLOT SCALE : 1:1

SHEET:

3

PLOT SCALE : 1:1

TRAFFIC CONTROL

	TOTALS	1	150	2352	13	78	26	156	13	78	1	6	35	746	
-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
STH 66 WB	6	-	40	240	8	48	16	96	0	0	0	0	9	54	LANE CLOSED
STH 66 EB	6	-	44	264	5	30	10	60	13	78	1	6	5	48	LANE CLOSED
B-RAMP	28	-	16	448	-	-	-	-	-	-	-		2	56	LT & RT SHOULDER CLOSED
STH 66 WB	28	-	40	1120	-	-	-	-	-	-	-		2	56	SHOULDER CLOSED
STH 66 EB	28	-	10	280	-	-	-	-	-	-	-		3	84	SHOULDER CLOSED
STH 66 WB	32	-	-	-	-	-	-	-	-	-	-	-	3	96	ADVANCED WARNING
STH 66 EB	32	-	-	-	-	-	-	-	-	-	-	-	2	64	ADVANCED WARNING
NORTHPOINT DR	32	-	-	-	-	-	-	-	-	-	-	-	1	32	ADVANCED WARNING
GREEN AVE N	32	-	-	-	-	-	-	-	-	-	-	-	1	32	ADVANCED WARNING
WILSHIRE BLVD N	32	-	-	-	-	-	-	-	-	-	-	-	2	64	ADVANCED WARNING
NORTH CT	32	-	-	-	-	-	-	-	-	-	-	-	1	32	ADVANCED WARNING
D-RAMP	32	-	-	-	-	-	-	-	-	-	-	-	1	32	ADVANCED WARNING
C-RAMP	32	-	-	-	-	-	_	-	-	-	-	-	1	32	ADVANCED WARNING
IH-39 NB	32	-	-	-	-	-	_	-	-	-	-	-	1	32	ADVANCED WARNING, B-RAM
A-RAMP	32	_	_	-	_	-	_	_	_	-	_	-	1	32	ADVANCED WARNING
LOCATION	# OF DAYS	EACH	QTY	DAYS	QTY	DAYS	QTY	DAYS	QTY	DAYS	QTY	DAYS	QTY	DAYS	REMARKS
		1166-08-84		DRUMS		TYPE III		TYPE A		TYPE C		BOARDS		SIGNS	
		(project) 01.		643.0300		BARRICADES		LIGHTS		LIGHTS		ARROW		643.0900	
		CONTROL				643.0420		WARNING		WARNING		643.0800			
		TRAFFIC						643.0705		643.0715					
		643.0100													

PROJECT NO: 1166-08-84 HWY: IH 39 COUNTY: PORTAGE MISCELLANEOUS QUANTITIES (SHEET-C) SHEET: **E**

ELECTRICAL INSTALLATIONS	
(PROJECT 1166-08-84)	

STATION REMARKS LS UNDISTRIBUTED 1 **TOTALS**

CONSTRUCTION STAKING

650.8500

CONDUIT

652.0225	
RIGID	
NONMETALLIC	652.0605
SCHEDULE 40	SPECIAL
2 INICH	2 INICH

FROM METER PEDESTAL OHS-49-04 PB1 PB2 PB2 PB3 PB4 PB4	PB1 PB1 PB2 OHS-49-04 PB3 PB4	10 10 10 211 176	LF 55.5 	REMARKS
OHS-49-04 PB1 PB2 PB2 PB3 PB4	PB1 PB2 OHS-49-04 PB3 PB4	10 10 211	 55.5	
PB1 PB2 PB2 PB3 PB4	PB2 OHS-49-04 PB3 PB4	 10 211	55.5	
PB2 PB2 PB3 PB4	OHS-49-04 PB3 PB4	10 211		
PB2 PB3 PB4	PB3 PB4	211	 	
PB3 PB4	PB4			
PB4		176		
	E40.0004	1/0		
PB4	F49-0004	11.5		
	PB5		65	
PB5	F49-0004	15		
PB6	F49-0003	10		
PB6	PB7		58	
PB7	F49-0003	10		
PB7	PB8	294.5		
PB8 1	154+36.55 (33.74LT.)		43	
154+36.55 (33.74LT.)	PB9	214		
PB9	METER PEDESTAL	10		
PB9	OHS-49-03	10		
PB9	PB10		59	
PB10	OHS-49-03	10		

CONCRETE BASES

OFFSET	ITEM ID	TYPE 1 EACH	TYPE 2 EACH	REMARKS
32' IT	OHS-49-04		1	B-RAMP
,			1	B-RAMP
•	F49-0004	1		B-RAMP
17', RT	F49-0004	1		B-RAMP
31.5', LT	OHS-49-03		1	STH 66 WB
27.2', RT	OHS-49-03		1	STH 66 WB
39', LT	F49-0003	1		STH 66 WB
19', RT	F49-0003	1		STH 66 WB
TOTALO			1	_
	31.5', LT 27.2', RT 39', LT	17', RT OHS-49-04 32', LT F49-0004 17', RT F49-0004 31.5', LT OHS-49-03 27.2', RT OHS-49-03 39', LT F49-0003 19', RT F49-0003	17', RT OHS-49-04 32', LT F49-0004 1 17', RT F49-0004 1 31.5', LT OHS-49-03 27.2', RT OHS-49-03 1 19', RT F49-0003 1	17', RT OHS-49-04 1 32', LT F49-0004 1 17', RT F49-0004 1 31.5', LT OHS-49-03 1 27.2', RT OHS-49-03 1 19', RT F49-0003 1 19', RT F49-0003 1

PULL BOXES

SPV.0060.02 NON-CONDUCTIVE

		24x42-INCH	
OFFSET	ITEM ID	EACH	REMARKS
20', RT	PB1	1	B-RAMP
35.5', LT	PB2	1	B-RAMP
54.87', LT	PB3	1	B-RAMP
37', LT	PB4	1	B-RAMP
28', RT	PB5	1	B-RAMP
19', RT	PB6	1	STH 66 WB
39', LT	PB7	1	STH 66 WB
31.5', LT	PB8	1	STH 66 WB
31.5', LT	PB9	1	STH 66 WB
27.2', RT	PB10	1	STH 66 WB
TOTALO		10	
IOTALS		10	
	20', RT 35.5', LT 54.87', LT 37', LT 28', RT 19', RT 39', LT 31.5', LT 31.5', LT	20', RT PB1 35.5', LT PB2 54.87', LT PB3 37', LT PB4 28', RT PB5 19', RT PB6 39', LT PB7 31.5', LT PB8 31.5', LT PB9 27.2', RT PB10	OFFSET ITEM ID EACH 20', RT PB1 1 35.5', LT PB2 1 54.87', LT PB3 1 37', LT PB4 1 28', RT PB5 1 19', RT PB6 1 39', LT PB7 1 31.5', LT PB8 1 31.5', LT PB9 1 27.2', RT PB10 1

PROJECT NO: 1166-08-84 HWY: IH 39 FILE NAME: N:/PDS/DESIGN_ID/1166-08-14,84_IH39/QUANTITIES/030201-MQ.PPT

PLOT DATE : _

COUNTY: PORTAGE

MISCELLANEOUS QUANTITIES (SHEET-D)

SHEET:

PLOT SCALE: 1:1

ELECTRICAL WIRE TRAFFIC SIGNALS

			655.0515	
		655.0210	10 AWG	
		3-14 AWG	(GREEN)	
FROM	то	LF	LF	REMARKS
METER PEDESTAL	PB1	88	106	
OHS-49-04	PB1	42	50	
PB1	PB2	203	243	
PB2	OHS-49-04	42	50	
PB2	PB3	446	535	
PB3	PB4	376	451	
PB4	F49-0004	34	40	
PB4	PB5	77	92	
PB5	F49-0004	37	44	
PB6	F49-0003	32	38	
PB6	PB7	70	84	
PB7	F49-0003	32	38	
PB7	PB8	613	736	
PB8	154+36.55 (33.74FT LT.)	110	132	
154+36.55 (33.74FT LT.)	PB9	452	542	
PB9	METER PEDESTAL	110	132	
PB9	OHS-49-03	42	50	
PB9	PB10	142	170	
PB10	OHS-49-03	84	101	
VIDEO CAMERA	OHS-49-03	22	26	
	TOTALO	2050	0004	_
	TOTALS	3053	3664	

ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION)

_	STATION	LOCATION	656.0200 LS	REMARKS
_	59+40 B 156+64 WB	17FT RT. 31.5FT LT.	1	B - RAMP STH 66 WB
		TOTALS	2	

ITS DEVICES

					657.0255		657.0420 TRAFFIC	657.0425 TRAFFIC	
					TRANSFORMER	657.0305	SIGNAL	SIGNAL	
				657.0100	BASES	POLES	STANDARDS	STANDARDS	
				PEDESTAL	BREAKAWAY	TYPE 2	ALUMINUM	ALUMINUM	
				BASES	11 1/2 BOLT CIRCLE	ALUMINUM	13-FT	15-FT	
	STATION	OFFSET	ITEM ID	EACH	EACH	EACH	EACH	EACH	REMARKS
	59+40B	17FT RT.	OHS-49-0	14	4	4			B - RAMP
	59+40B 59+40B	32FT LT.	OHS-49-0		1	1			B - RAMP
	63+45B	17FT RT.	F49-0004		· 	· 	1		B - RAMP
	63+45B	32FT LT.	F49-0004					1	B - RAMP
	156+64WB	27.2FT RT.	OHS-49-0	3	1	1			STH 66 WB
	156+64WB	31.5FT LT.	OHS-49-0	3	1	1			STH 66 WB
	150+85WB	19FT RT.	F49-0003	1			1		STH 66 WB
	150+85WB	39FT LT.	F49-0003	1				1	STH 66 WB
									_
		TOTALS		4	4	4	2	2	
ROJECT NO: 1166-08-84 HWY: IH 39				COUNTY: PORTA	AGE	MISCELLANEOUS QUANTITIES (SHEET-E)			
E NAME: N:/PDS/DESIGN_ID/1166-08-14,84_IH39/QUANTITIES/030201-MC		PLOT DATE :	PLOT BY :	F	PLOT NAME :	PLOT SCALE :			

FILE NAME: N:/PDS/DESIGN_ID/1166-08-14,84_IH39/QUANTITIES/030201-MQ.PPT

PLOT SCALE : 1:1

SHEET:

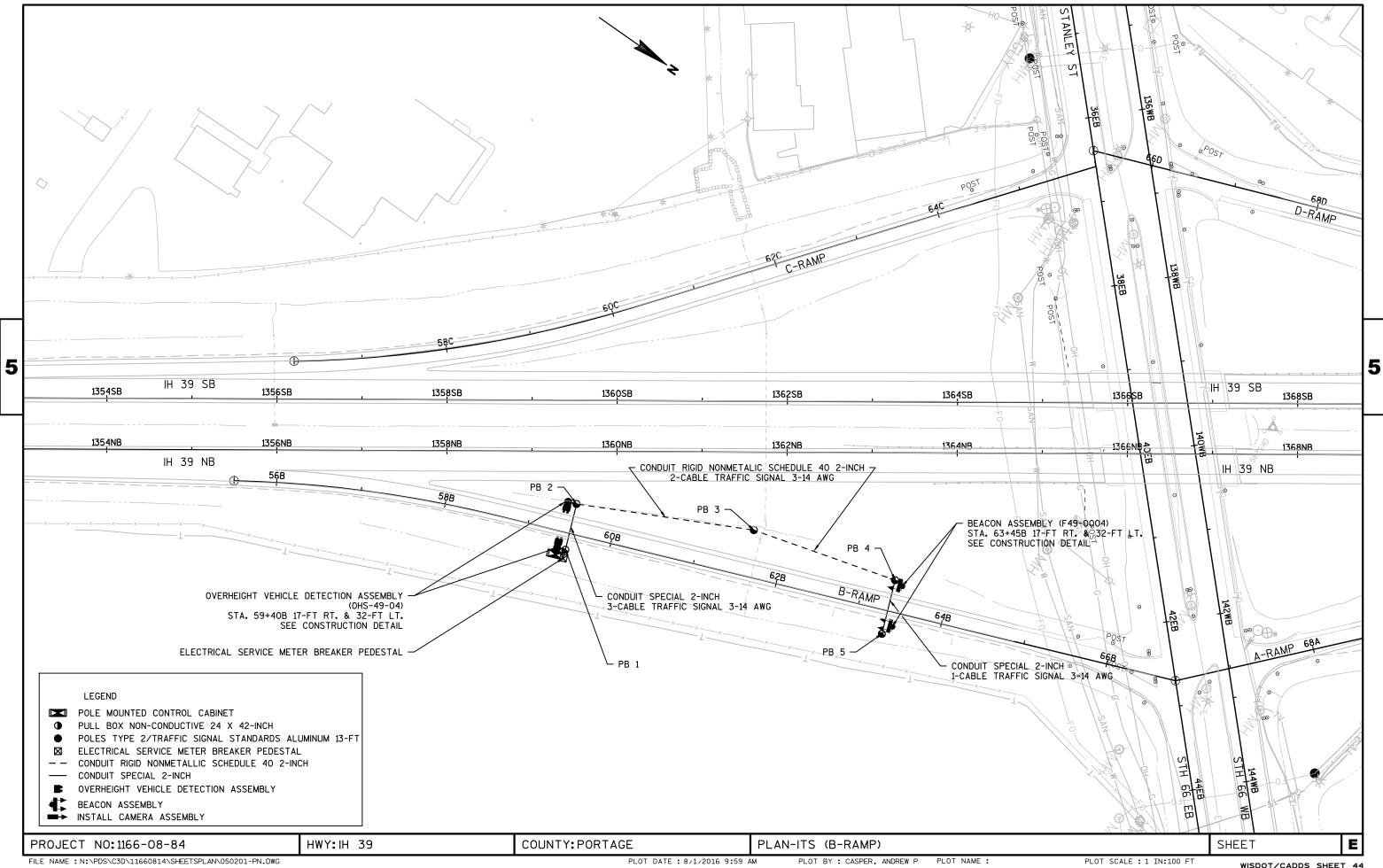
ITS DEVICES

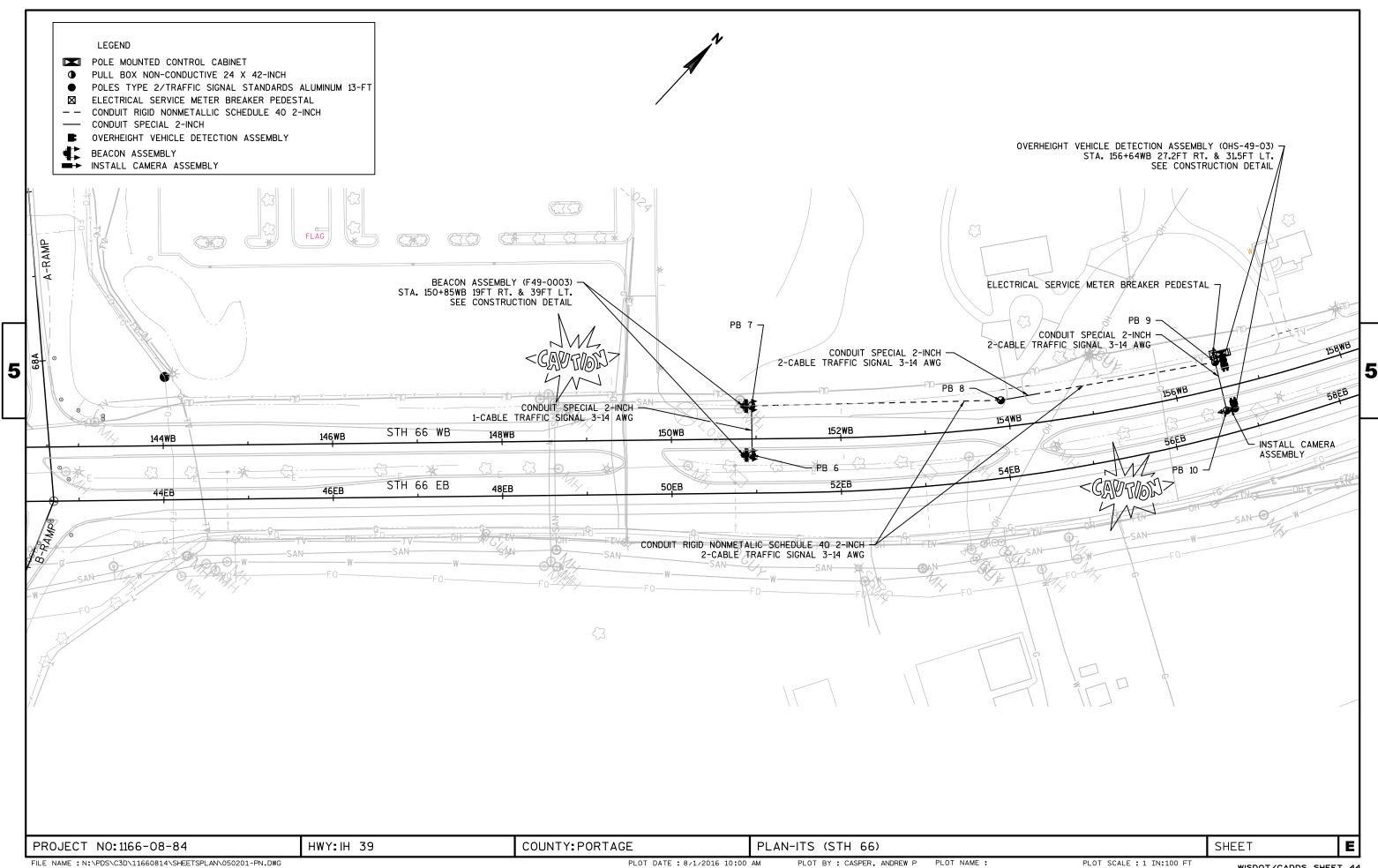
			658.0103	658.0210	658.0605	
			TRAFFIC	BACKPLATES	LED	
			SIGNAL	SIGNAL FACE	MODULES	
			FACE 1-12 INCH	1 SECTION	12-IN	
			VERTICAL	12-INCH	YELLOW BALL	
STATION	OFFSET	ITEM ID	EACH	EACH	EACH	REMARKS
63+45B	17FT RT.	F49-0004	2	2	2	
63+45B	32FT LT.	F49-0004	2	2	2	
150+85WB	19FT RT.	F49-0003	2	2	2	
150+85WB	39FT LT.	F49-0003	2	2	2	
	TOTALS		8	8	8	

ITS DEVICES

			658.5069 SIGNAL MOUNTING HARDWARE (location) .01 IH39 & Stanley St/STH 66 Interchange	670.0100 FIELD SYSTEM INTEGRATOR	670.0200 ITS DOCUMENTATION	677.0200 INSTALL CAMERA ASSEMBLY	SPV.0060.01 OVERHEIGHT VEHICLE DETECTION ASSEMBLY	
 STATION	LOCATION	ITEM ID	LS	LS	LS	EACH	EACH	REMARKS
UNDISTRIBUTED STA 59+40 B	- LT & RT	- OHS-49-04	1 0	1 0	1 0	0 0	0 1	B-RAMP
STA 156+64 WB	LT & RT	OHS-49-03	0	0	0	1	1	STH 66 WEST BOUND
	TOTALS		1	1	1	1	2	

PROJECT NO: 1166-08-84 HWY: IH 39 COUNTY: PORTAGE MISCELLANEOUS QUANTITIES (SHEET-F) SHEET: **E**





PLOT DATE: 8/1/2016 10:00 AM PLOT SCALE : 1 IN:100 FT WISDOT/CADDS SHEET 44

Standard Detail Drawing List

08E09-06	SILT FENCE
09B02-09	CONDUI T
09B04-11	PULL BOX
09C02-07	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09E07-05	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
09H11-01	IDENTIFICATION PLAQUE REQUIREMENTS AND PLACEMENTS
12A04-03	STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES & OVERHEAD SIGN SUPPORTS & TRAFFIC SIGNALS
15C04-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15D12-06A	TRAFFIC CONTROL, LANE CLOSURE
15D20-03	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D27-02	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

6

TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- 2 FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



SILT FENCE TIE BACK

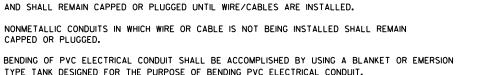
(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

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6



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.

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

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION

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

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

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

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION

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

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES

SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

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

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

GENERAL NOTES

AND 36 INCHES MAXIMUM.

OF THE ENGINEER.

CAPPED OR PLUGGED.

MINIMUM AND 36 INCHES MAXIMUM.

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.

BOTTOM OF ¼" HOLE PVC CONDUIT-CONDUIT TRENCH FOR DRAINAGE NO. 2 COARSE AGGREGATE FILL —1'-0" DIA. OR SQUARE —>

NOTE: INSTALL AT LOCATIONS WHERE METALLIC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

BOTTOM OF

CONDUIT TRENCH

NOTE: INSTALL AT LOCATIONS WHERE PVC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR METALLIC CONDUIT

1'-0" DIA. OR SQUARE ──➤

METALLIC CONDUIT-

1" DIA. X 6"

NIPPLE

NO. 2 COARSE

AGGREGATE FILL

ARROW MARK SHALL BE INSCRIBED IN PAVEMENT SURFACE 1/4" TO 3/8"

DEEP AT EACH LOCATION WHERE CONDUITS ARE PLACED UNDER

PLAN VIEW

ARROW MARK

CONDUIT

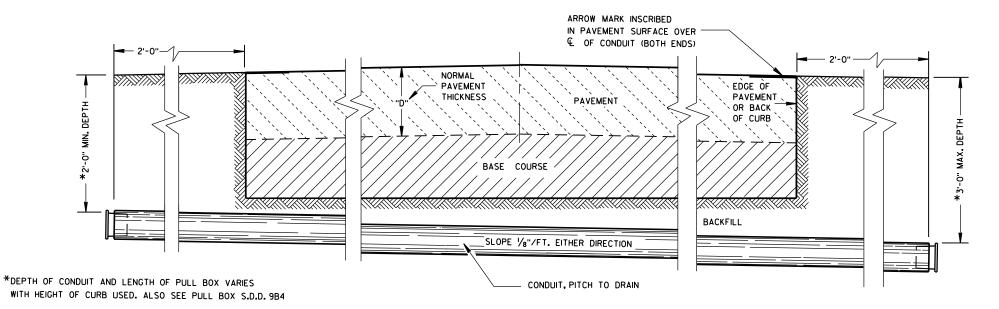
THE PAVEMENT

EDGE OF

PAVEMENT OR BACK

OF CURB

DRAIN SUMP FOR PVC CONDUIT



SIDE ELEVATION DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

CONDUIT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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APPROVED /S/ Ahmet Demirbilek June. 2015 DATE STATE ELECTRICAL ENGINEER

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6

FHWA

DIMENSION IN INCHES				COF	RRUGAT	ED ST	EEL P	IPE		
PIPE DIAMETER (INSIDE)	Α	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	В	24	30	36	24	30	36	36	42	48
WALL THICKNESS	С	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	Ε	14 1/2	14 1/2	14 1/2	20 ½	20 ½	20 ½	26 ½	26 ½	26 ½
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 ½	14 1/2	20 ½	20 ½	20 ½
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 ½	23 ½	23 ½
					WEIGH	T IN P	OUNDS	*		
FRAME AND COVER		60	60	60	110	110	110	155	155	155

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

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

ELECTRIC

FINAL GRADE

ALL METALLIC CONDUIT

AND THREADED

CUT OPENINGS

THE FIELD

2" PVC PIPE CAP ON BOTH ENDS

WITH 7, 8 1/4" HOLES DRILLED

IN EACH END.

PULL BOX

AS REQUIRED IN

ENDS SHALL BE REAMED

ALL CONDUIT PITCHED

4 TO 8 BRICKS

EQUALLY SPACED

TO DRAIN TO PULL BOXES

2" DRAIN DUCT TO

DITCH OR SEWER

WHEN SPECIFIED

CORRUGATED PIPE EXTENDER

HEAVY DUTY FRAME -

6" MIN.

(TYP.)

AND COVER

WHEN A PULL BOX IS INSTALLED IN CRUSHED

AGGREGATE SHOULDERS, PLACE IT 2-3

2-3 INCHES OF CRUSHED AGGREGATE

NO. 2 COARSE

(SEE SECTION 501

OF THE STANDARD

WIRE AND/OR CABLE.

INSTALL END BELLS (U.L. LISTED FOR

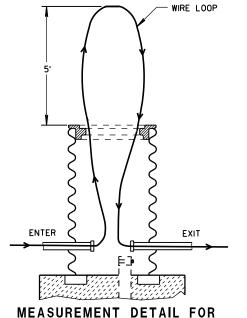
CONDUIT BEFORE INSTALLATION OF

ELECTRICAL USE) ON ALL NONMETALLIC

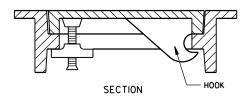
SPECIFICATIONS)

AGGREGATE

INCHES BELOW GRADE AND COVER IT WITH

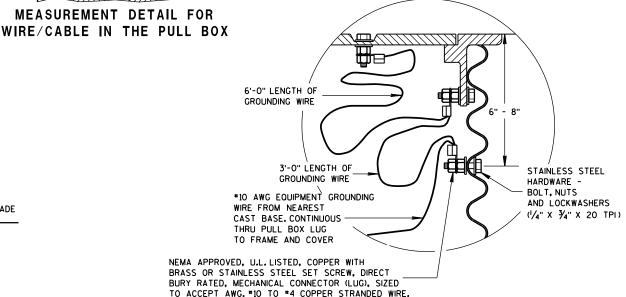


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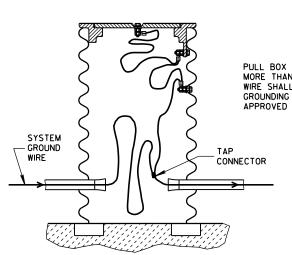


ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

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

PULL BOX

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

GENERAL NOTES

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

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

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

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

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

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

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

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

TRAFFIC LOADS.

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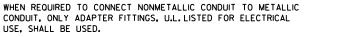
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IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL. THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE.
BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1FOOT OR LESS. A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL

BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE

(GROUND ROD) FOR TYPE 1. TYPE 2. TYPE 5. AND TYPE 6 BASES.

GENERAL NOTES (CONTINUED)

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE

OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES THROUGH A LINCH 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" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END 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 BY 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 STEEL REINFORCEMENT @ 1'-0" C-C.

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 SMOOTH 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 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 NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

FORMING DETAIL

1'-8"

a)

- FORM

FORMING SHALL BE

CONCRETE HAS SET

REMOVED AFTER

FORM DEPTH SHALL BE

GRADE ON THE LOWER

SIDE OF BASE

4" MAX.

CONDUIT WITHIN

6" DIA.

ANCHOR RODS SHALL BE

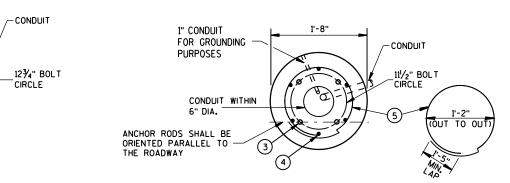
ORIENTED PARALLEL TO

1" CHAMFER ALL AROUND

FORM ALL EXPOSED

CONCRETE, PROVIDE

NO MORE THAN 6" BELOW



QUANTITY

REQUIREMENTS

ARDS OF CONCRETE

APPROX. CUBIC

LBS. OF HOOP

LBS. OF VERTICAL

BAR STEEL

BAR STEEL

CONCRETE BASE TYPE

0.57

23

60

0.40

NONE

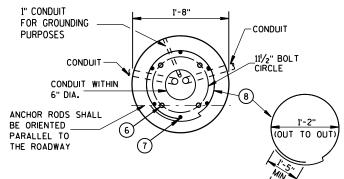
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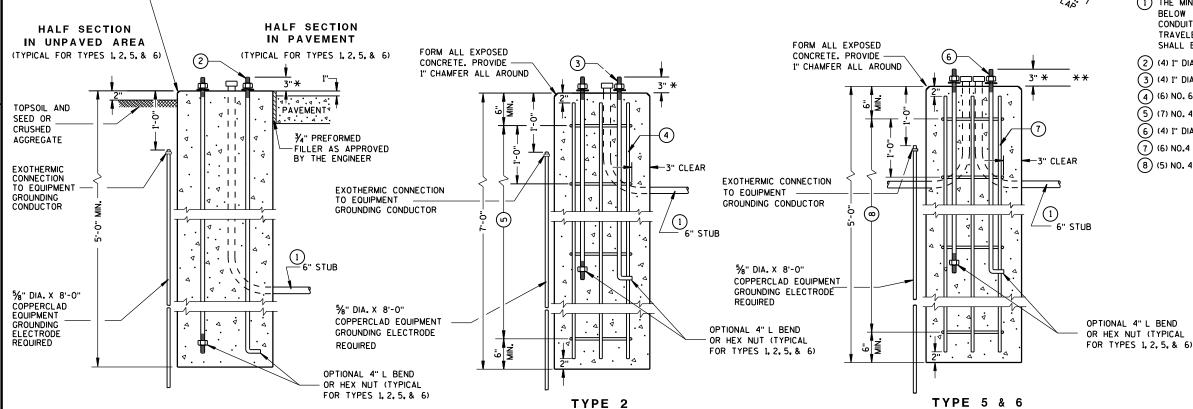
5 & 6

0.40

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CONCRETE BASES

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 31/4" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

** FOR NONBREAKAWAY INSTALLATIONS, 41/2" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED Sept. 2014 /S/ Ahmet Demirbilek STATE ELECTRICAL ENGINEER

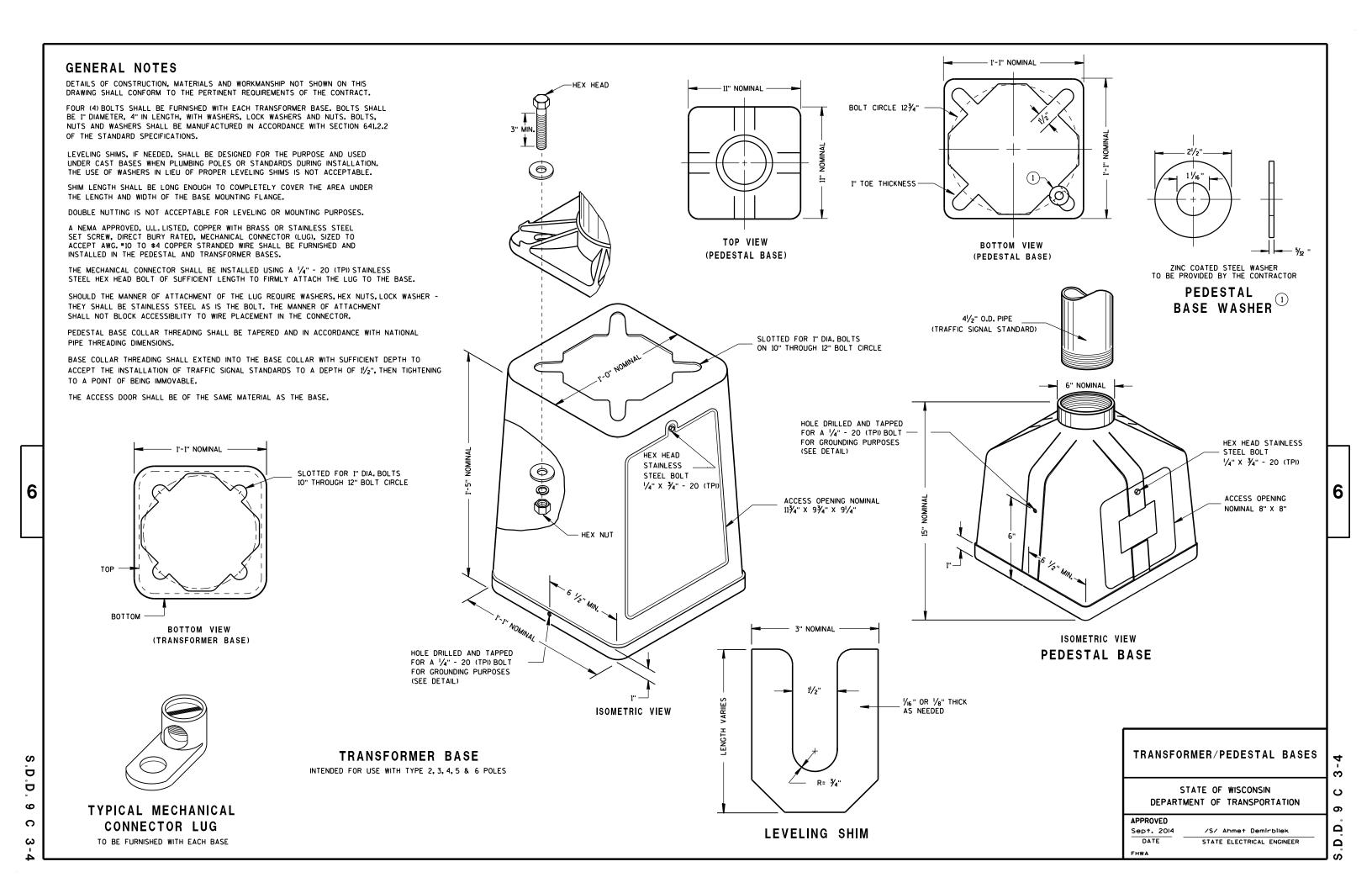
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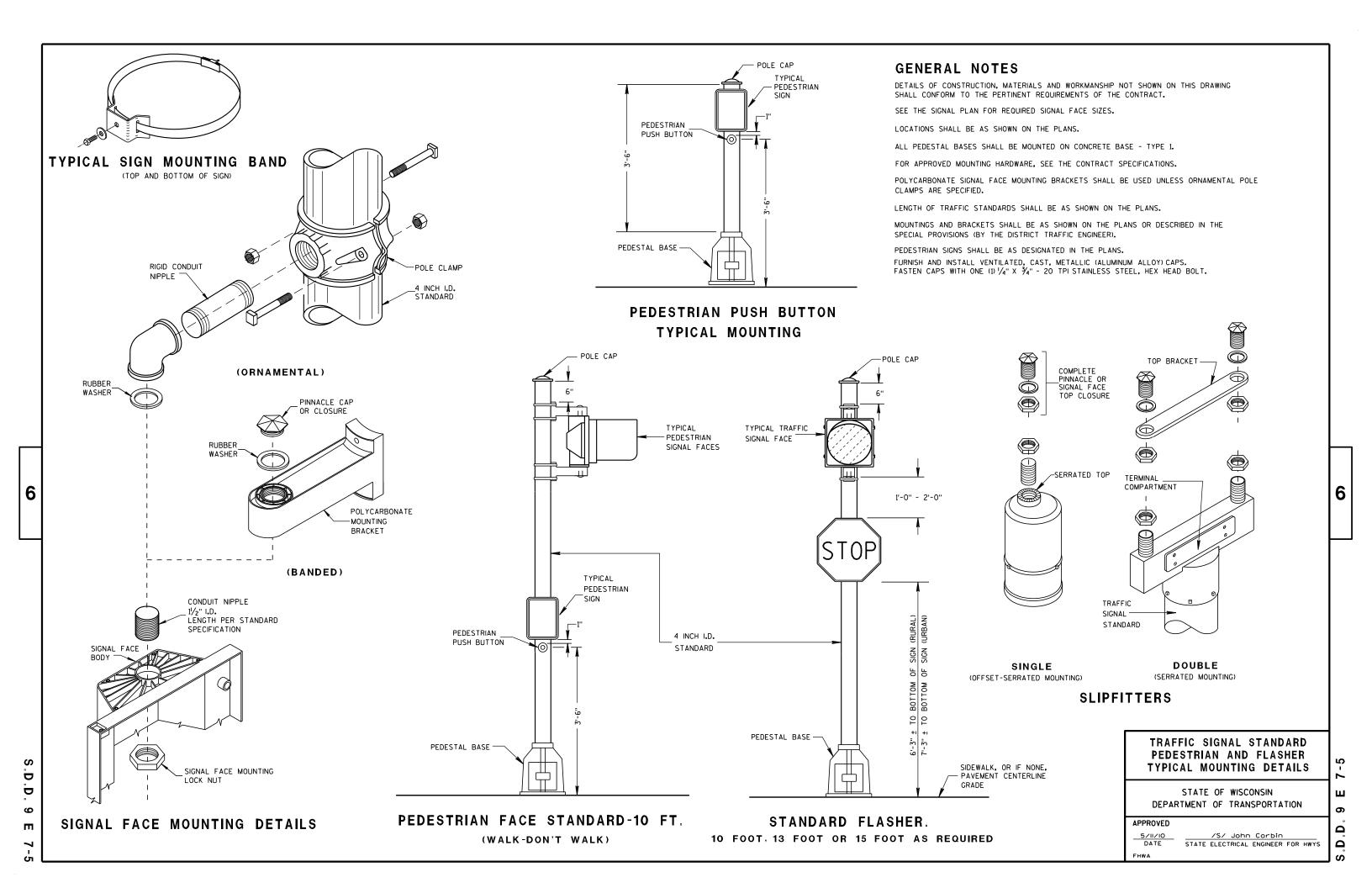
/S/ Ahmet Demirbilek

STATE ELECTRICAL ENGINEER

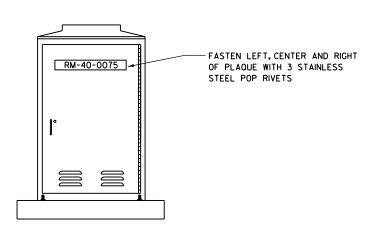
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FHWA



CONTROL CABINET IDENTIFICATION PLAQUE DETAIL

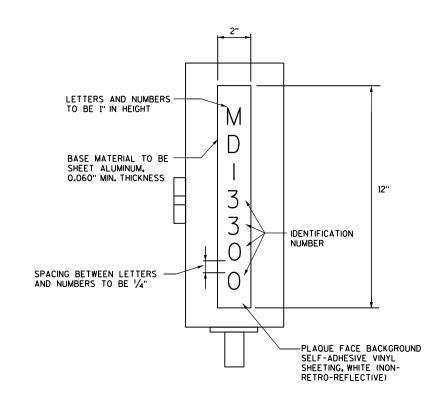


CONTROL CABINET IDENTIFICATION PLAQUE REQUIREMENTS AND PLACEMENTS

(TYPICAL ALL CONTROL CABINETS)

CAMERA POLE-BASE MATERIAL TO BE-SHEET ALUMINUM, 0.060" MIN. THICKNESS - COUNTY NUMBER 1/2" WIDE SELF-ADHESIVE 24" VINYL CUTOUTS (TYP.) POLE NUMBER SPACING BETWEEN LETTERS AND NUMBERS TO BE 1/2" (IF QUANTITY OF NUMERALS OR LETTERS IS LESS THAN SHOWN, LEAVE SPACE AT BOTTOM OF PLAQUE) PLAQUE FACE BACKGROUND SELF-ADHESIVE VINYL SHEETING, WHITE (NON-RETRO-REFLECTIVE)

POLE IDENTIFICATION PLAQUE DETAIL



MICROWAVE DETECTOR FIELD CABINET IDENTIFICATION PLAQUE DETAIL

GENERAL NOTES

- 1 TWO PLAQUES PER CABINET REQUIRED ON CONTROL CABINET.
- (2) FASTEN ONE PLAQUE ON FRONT DOOR, UPPER HALF.
- 3 FASTEN ONE PLAQUE ON SIDE FACING LOCAL STREET. IF NO LOCAL STREET NEARBY, OR IF SUCH LOCATION COINCIDES WITH LOCATION OF PLAQUE IN NOTE(2), FASTEN PLAQUE ON REAR OF CABINET, UPPER HALF.
- (4) COUNTY NUMBER NOT REQUIRED ON RAMP METER CABINETS.

LEGEND STATION TYPE

RM - RAMP METER CCTV - CLOSED CIRCUIT TELEVISION ATR - AUTOMATIC TRAFFIC RECORDER SDS - SYSTEM DETECTOR STATION MD - MICROWAVE DETECTOR

> IDENTIFICATION PLAQUE REQUIREMENTS AND PLACEMENTS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

Sept. 2014 /S/ Ahmet Demribilek STATE ELECTRICAL ENGINEER FHWA

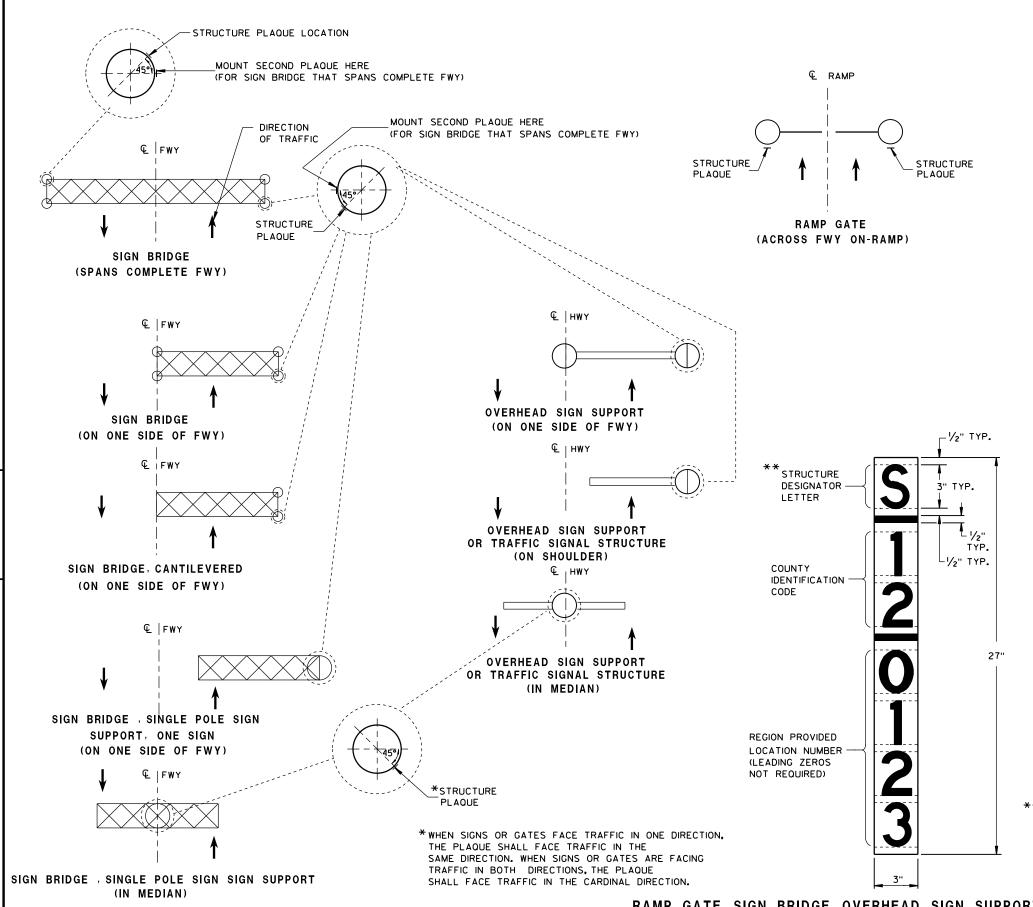
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LOCATION OF RAMP GATE, SIGN BRIDGE, OVERHEAD

SIGN SUPPORT & TRAFFIC SIGNAL STRUCTURE PLAQUES

GENERAL NOTES

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

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

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

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

GALVANIZED STEEL SHAFT - 3 STAINLESS STEEL POP RIVETS

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

ALUMINUM SHAFTS - 3 ALUMINUM POP RIVETS

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

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

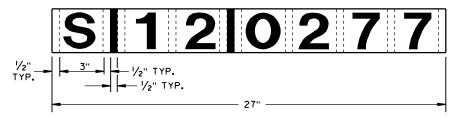
FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETROREFLECTIVE

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

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

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

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



IDENTIFICATION PLAQUE FOR SIGN BRIDGE, STRUCTURE MOUNTED

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

DATE STATE TRAFFIC ENGINEER OF DESIGN

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

GENERAL NOTES

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

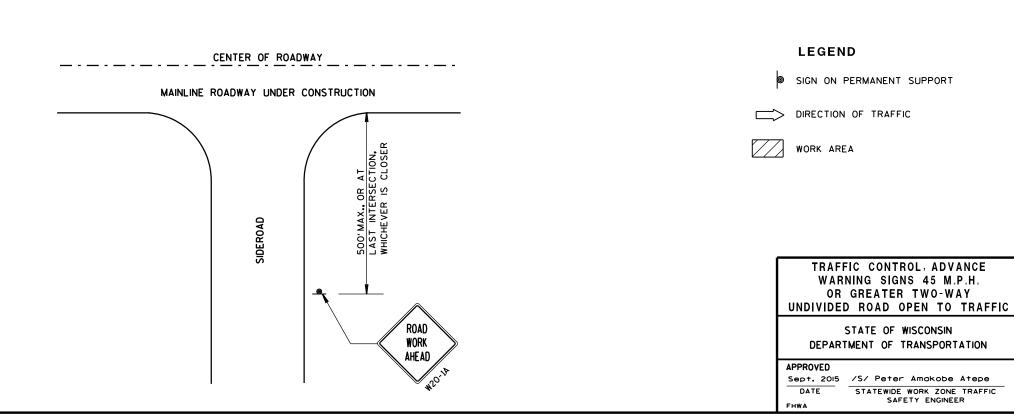
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

- * OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- * PLACE ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



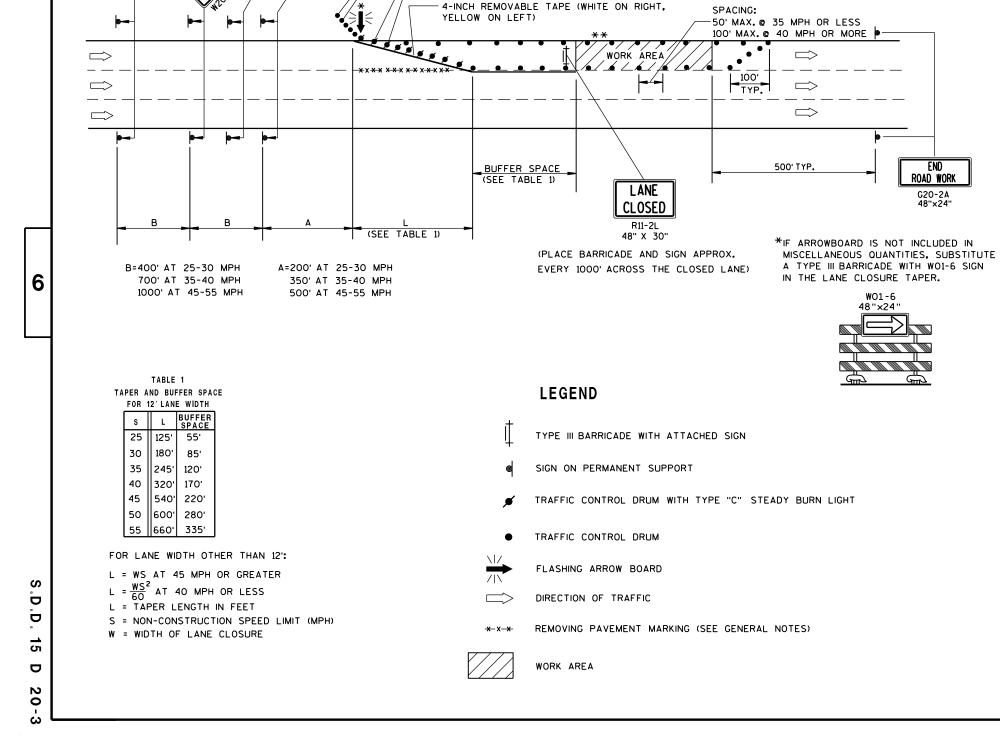
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SAFETY ENGINEER

GENERAL NOTES LEGEND THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. 4 OR MORE DAYS AND NIGHTS. TYPE III BARRICADE WITH ATTACHED SIGN THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIREABLE) DISTANCE TO EXISTING WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION. SIGN ON PERMENENT SUPPORT IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING DELINEATION. THE DEVICE SPACING MAY BE DECREASED TO 50 FEET. LEFT LANE. TRAFFIC CONTROL DRUM ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST FLASHING ARROW BOARD "WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE. MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" TYPE "A" WARNING LIGHT (FLASHING) THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS. * X -X REMOVING PAVEMENT MARKING CROSSOVER MANEUVER. CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS * THE LEFT REVERSE CURVE SIGN (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL. DIRECTION OF TRAFFIC 1500 FEET IN FRONT OF DRUMS. FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS. THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS. 6 6 WORK CLOSED CLOSED I MILE 1500 F XX м.Р.н 36"×36" IF NEEDED. USE ONLY TYPE III BARRICADE IF DESIGN SPEED IS TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE SPACED EVERY 1/4 MILE. 10 MPH BELOW 4-INCH EDGELINE (WHITE ON RIGHT, YELLOW ON LEFT) POSTED SPEED. 100' \Rightarrow \Rightarrow \Longrightarrow WORK AREA 50' L/2 500' MIN. - 800' DESIRABLE 575 L. TAPER 500 50 MPH - 600' 55 MPH - 660' 2600' 1600' 1000' 60 MPH - 720' TRAFFIC CONTROL, 9 65 MPH - 780' D 70 MPH - 840' LANE CLOSURE 5 DRUMS SPACED @ 10' INTERVALS AS 2 Ö NEEDED IN FRONT OF ARROW BOARD 15 Δ STATE OF WISCONSIN ADVANCED WARNING AREA TRANSITION AREA BUFFER SPACE DEPARTMENT OF TRANSPORTATION D **APPROVED** /S/ Peter Amakobe Atepe 2 March 2016 STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER Ω 6 FHWA





(5) DRUMS SPACED @ 10'

INTERVALS AS NEEDED IN

FRONT OF ARROW BOARD

25'@ 35 MPH OR LESS

50'@ 40 MPH OR MORE

TEMPORARY PAVEMENT MARKING.

SPACING:

ROAD WORK

NEXT___MILES

G20-1

60" X 24"

CLOSED

AHEAD

AHEAD

GENERAL NOTES

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

ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL

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

IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC

TRAFFIC, IN ADVANCE OF THE WORK AREA.

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

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

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

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

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

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

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

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

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

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W2O-1, G2O-1 AND G2O-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

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

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

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

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

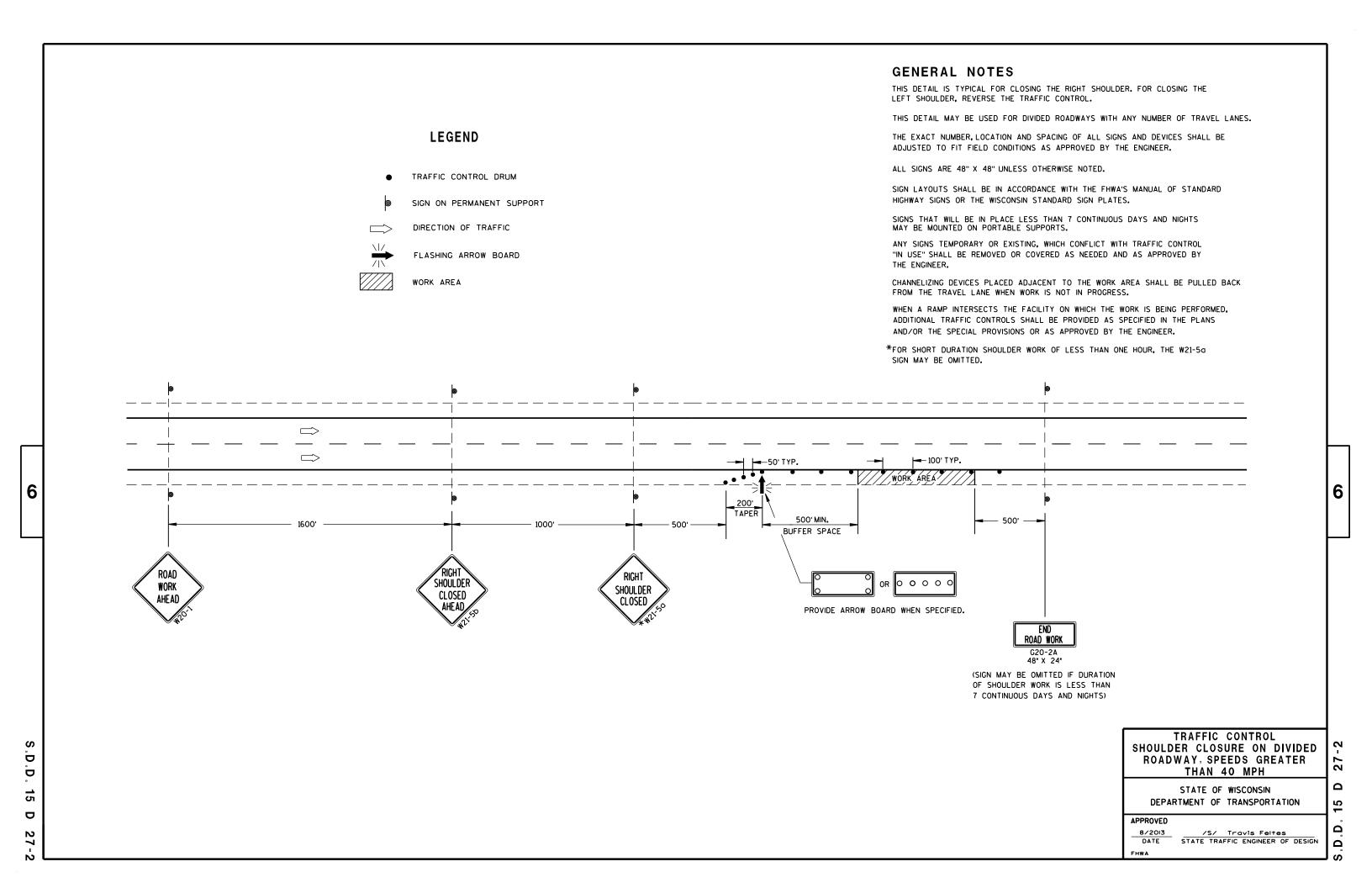
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Feb. 2015
DATE
STATE TRAFFIC ENGINEER OF DESIGN

S.D.D. 15 D 2

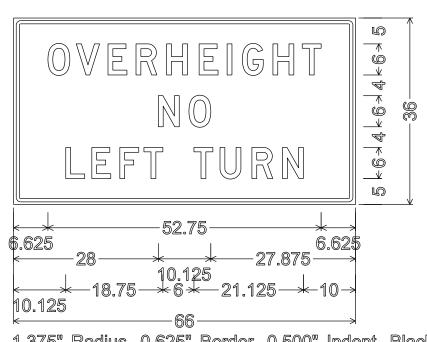


NOTES

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

Background - YELLOW Message - BLACK

3. Message Series - D

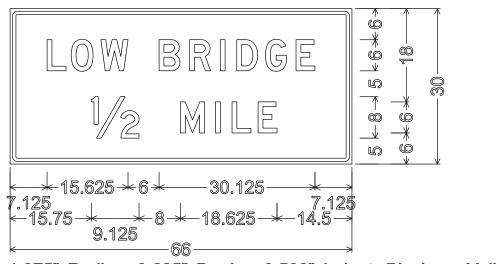


1.375" Radius, 0.625" Border, 0.500" Indent, Black on Yellow; "OVERHEIGHT" D; "NO" D; "LEFT" D; "TURN" D;

OVERHEIGHT 6.546 RIGHT

1.375" Radius, 0.625" Border, 0.500" Indent, Black on Yellow; "OVERHEIGHT" D; "EXIT" D;

"RIGHT" D;



12 6.000" Radius, 1.250" Border, Black on Yellow; "CLEARANCE" D; Down Arrow Custom - 16.000" 270° Black; "14"" D; "-" D; "9"" D; Down Arrow Custom - 16.000" 270° Black;

COUNTY: PORTAGE TEMPORARY SIGNING

FILE NAME : C:\CAEFiles\Projects\tr_d4\4491A616.dgn

PROJECT NO: 1166-08-84

PLOT DATE: 20-JUN-2016 10:04

PLOT NAME :

PLOT SCALE: 15.566735:1.000000

WISDOT/CADDS SHEET 42

SHEET NO:

1.375" Radius, 0.625" Border, 0.500" Indent, Black on Yellow;

HWY: STH 66

"LOW" D; "BRIDGE" D; " 1/2" D;

"MILE" D;

URBAN ARFA



RURAL AREA (See Note 2)



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



5'-3"(生) D^{-1} Outside Edae of Gravel

White Edgeline Location

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where

there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

HWY:

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

PLOT BY : mscj9h

GENERAL NOTES

- 1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on barrier wall, see A4-10 sign plate.
- 3. For expressways and freeways, mounting height is $7'-3''(\pm)$ or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A2-1S) is $7'-3''(\pm)$ or $6'-3''(\pm)$ per urban or rural detail respectively.
- 5. Minimum mounting height for signs mounted on traffic signal poles is 5' - 3'' (\pm).
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The (+) tolerance for mounting height is 3 inches.
- 8. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (\pm) . The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3'' (\pm).

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

for State Traffic Engineer

DATE 7/23/15

PLATE NO. <u>A4-3.20</u>

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

PROJECT NO:

PLOT DATE: 23-JUL-2015 15:21

COUNTY:

PLOT NAME :

PLOT SCALE: 99.237937:1.000000

WISDOT/CADDS SHEET 42



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

- 2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
- 3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

WISDOT/CADDS SHEET 42

GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3'' (±) or 6'-3'' (±) depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. Minimum mounting height for J assemblies (A2-1S) is 7'-3'' (±) or 6'-3'' (±) per urban or rural detail respectively.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8). Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).
- * 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- ** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- *** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

URBAN AREA RURAL AREA (See Note 3) 2'Min - 4'Max (See Note 6) ₩E# FF# 6'-3"(±) 6'-3"(±) 7'-3"(±) ** Curb ********\ Flowline D **7000** White Edgeline D 11 White Edgeline, Location Outside Edae Location

2' Min - 4' Max (See Note 6) 6'-3"(±) Curb Flowline. -11

48" DIAMOND WARNING SIGN

HWY:

_ 26" 5 ' - 3 "(±) White Edgeline Location Outside Edge of Gravel 48" DIAMOND WARNING SIGN

COUNTY:

Outside Edge

of Gravel

	SIGN SHAPE OTHER THAN (TWO POSTS REQUIRED		
	L	E	
* * *	Greater than 48" Less than 60"	12"	
	60" to 120"	L/5	l

SIGN SHAPE OTHER THAN (THREE POSTS REQUIR	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN (FOUR POSTS REQUIRE	
L	E
168" and greater	12"

POST EMBEDMENT DEPTH

of Gravel

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

Matther

SHEET NO:

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

PROJECT NO:

PLOT DATE: 23-JUL-2015 15:23

PLOT SCALE: 107.021305:1.000000

WISDOT/CADDS SHEET 42

PLOT NAME :

PLOT BY: mscj9h

WISCONSIN DEPT OF TRANSPORTATION APPROVED

For State Traffic Engineer

PLATE NO. 44-4.14 DATE 7/23/15



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

ATTACHMENT OF SIGNS
TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Nather R Raw
For State Traffic Engineer

DATE <u>8/11/16</u>

PLATE NO. <u>44-8.8</u>

PROJECT NO:

FILE NAME : C:\CAFfiles\Projects\tr stdplote\A48 DCN

PLOT DATE . 11-416-2016 11:35

PINT RY * \$\$ nintuser \$\$

SHEET NO:

| | |



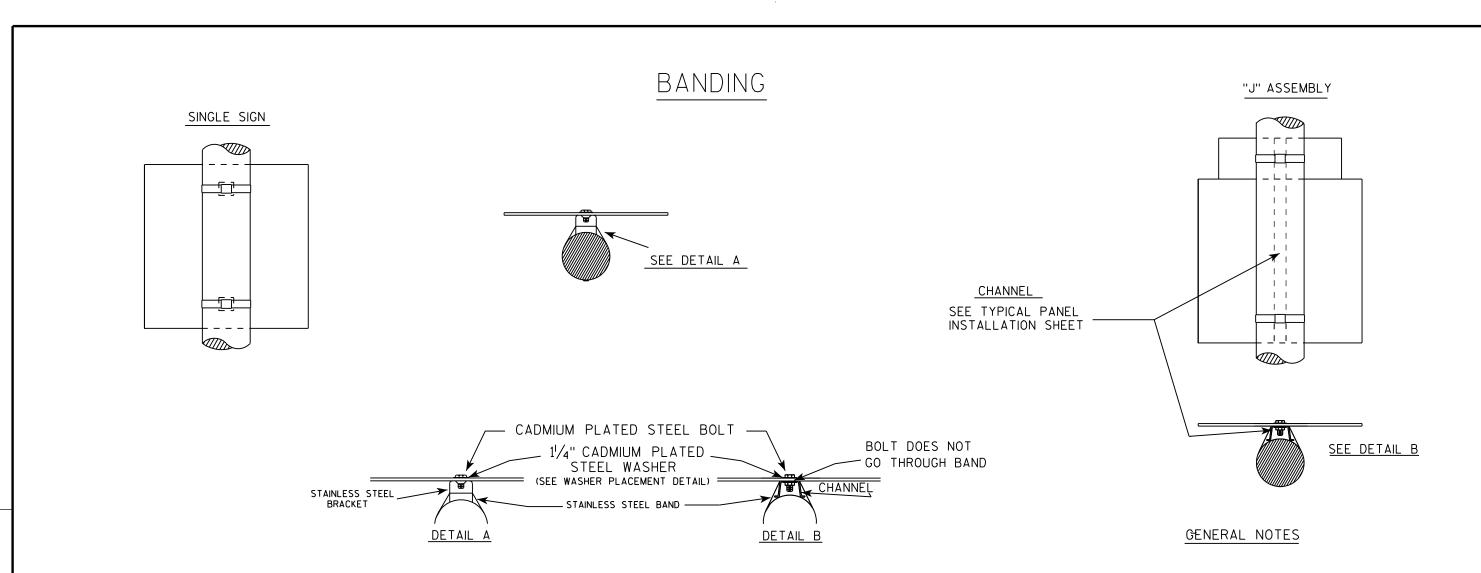
PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

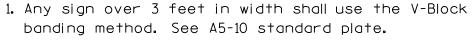
DATE 2/05/15

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

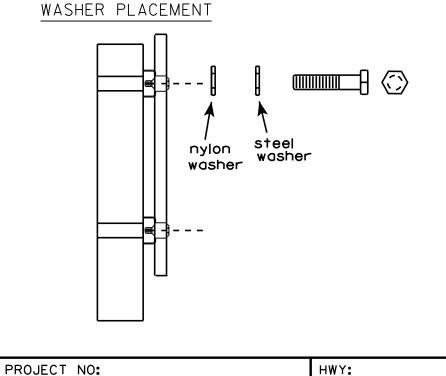
For State Traffic Engineer







- 2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
- 3. Banding and assembly bracket shall be stainless steel. All bands shall be $\frac{3}{4}$ " in width and 0.025" thickness.



WASHERS (ALL POSTS) -

COUNTY:

1-1/4" O.D. X3/8" I.D. X1/16" STEEL 1-1/4" O.D. X3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

State Traffic Engineer DATE 8/16/13

SHEET NO:

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

PLOT DATE: 16-AUG-2013 13:27

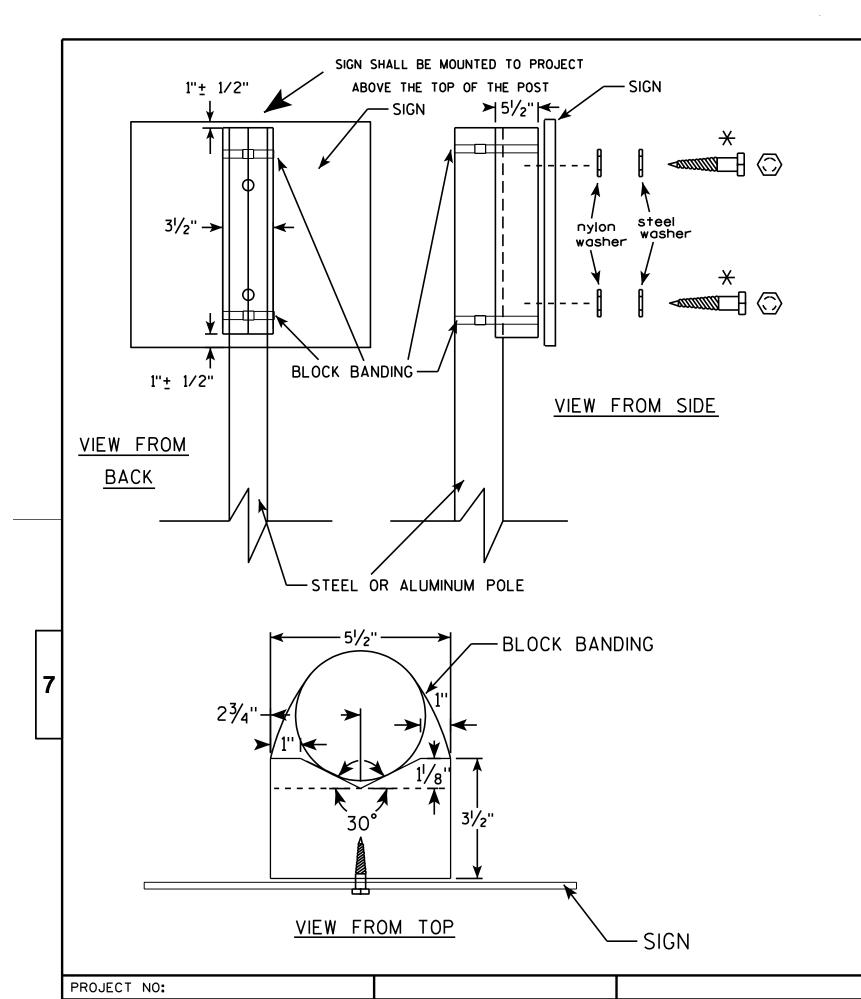
PLOT BY: mscsja

PLOT NAME :

PLOT SCALE: 33.740899:1.000000

WISDOT/CADDS SHEET 42

PLATE NO. A5-9.3



GENERAL NOTES

- 1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
- 2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, 3/4" WIDTH AND 0.025" THICKNESS
- 3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
- 4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
- 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
 - b. Cadmium plated in accordance with ASTM Designation: B 766 TYPE 3, Class 12, or
 - c. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3.
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE 11/4" O.D. X 3/8" I.D. X 1/16"
- 8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $\frac{3}{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

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

BLOCK BANDING DETAIL (V-BLOCK OPTION) WISCONSIN DEPT OF TRANSPORTATION APPROVED For State Traffic Engineer PLATE NO. <u>A5-10.1</u>

DATE 7/12/07

SHEET NO:

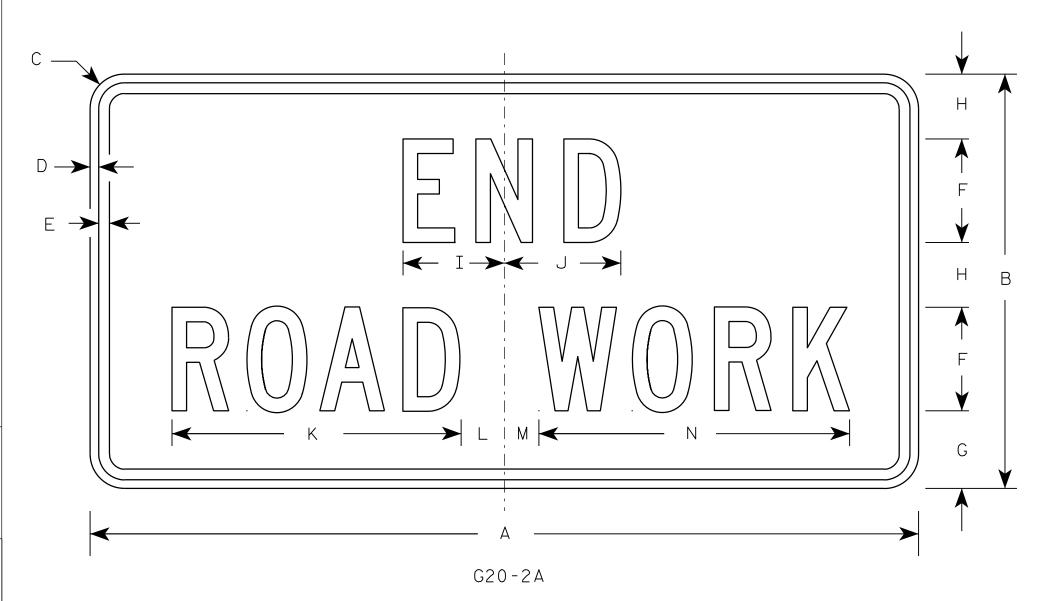
NOTES

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

2. Color:

Background - Orange Message - Black

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



Metric equivalent for this sign is:

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 1/8	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72

COUNTY:

STANDARD SIGN G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED AND UN A O N

Matther R Lauch

For State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\G202A.DGN

HWY:

PROJECT NO:

PLOT DATE: 30-SEP-2009 09:31

PLOT BY: ditjph

PLOT NAME :

PLOT SCALE: 5.561773:1.000000

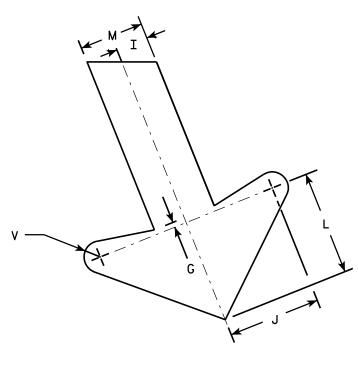
WISDOT/CADDS SHEET 42

NOTES

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

Background - White Message - Black

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



|--|

PLOT NAME :

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Areg sq. ft.
1																											
25	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 1/8	2	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 5/8	8	22°	1/2	9 1/2				6.0
2M	24	36	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 1/8	2 %	3 1/4	2	1 1/2	7 1/4	7 1/2		8 1/8	7 %	8	22°	1/2	9 1/2				6.0
3	36	54	1 3/4	1/2	5/8	6	3/8	3 3/4	1 1/2	4 1/4	4	4 %	3	2 1/4	10 1/8	11 1/4		12 1/4	11 1/2	12	22°	3/4	13 1/4				13.5
4																											
5																											

COUNTY:

R3-20L

HWY:

М

М

0

STANDARD SIGN R3-20L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew K

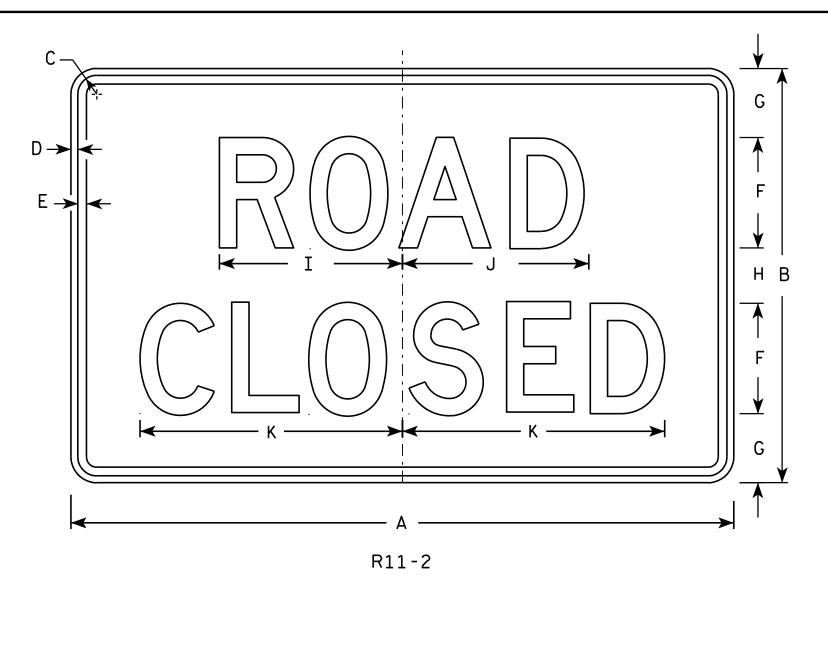
for State Traffic Engineer

DATE 10/18/10

/18/10 PLATE NO. R3-20L.7

SHEET NO: E

PROJECT NO:

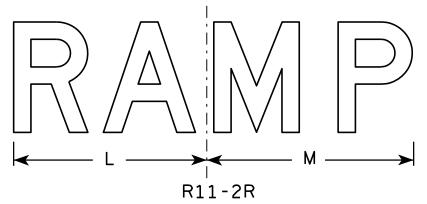


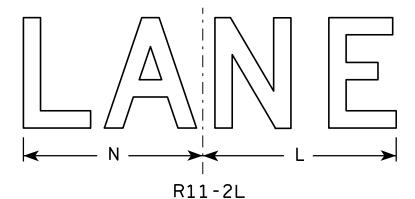
<u>NOTES</u>

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

Background - White Message - Black

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





STEF A B C D F F F G H T J J K I J M N O P O R S T J J V J W J X J																											
SIZE	A	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Ρ	0	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 ½	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 ½	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
PRO	PROJECT NO: HWY:											С	OUNTY	':													

STANDARD SIGN R11-2

WISCONSIN DEPT OF TRANSPORTATION

DATE 4/1/11 PLATE NO. R11-2.10

SHEET NO:

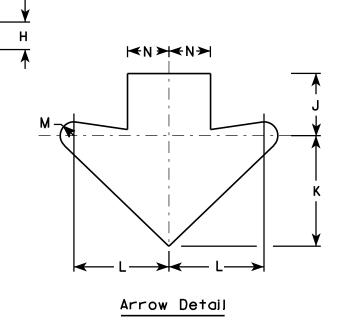
PLOT BY: mscj9h

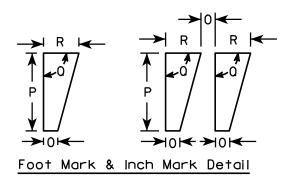


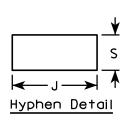
- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Yellow Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals and optically adjust spacing of numerals, hyphen, foot & inch marks to achieve proper balance.







SIZE	Α	В	С	D	E	F	G	Н	I	7	K	L	M	N	0	P	0	R	S	T	U	V	W	X	Y	Z	Arec sq. fi
1	30		1 3/8	1/2	5/8		5	1 1/8	3 %	3 3/4	6 %	5 ¾	3/4	2 1/2	1/2	2 1/4	90°	1	1 %								6.2
2S	36		1 %	5/8	3/4		6	2	4	4 1/2	8	6 %	1	3	1/2	2 3/4	90°	1 1/4	1 %								9.0
2M	36		1 %	5/8	3/4		6	2	4	4 1/2	8	6 %	1	3	1/2	2 3/4	90°	1 1/4	1 %								9.0
3	36		1 %	5/8	3/4		6	2	4	4 1/2	8	6 %	1	3	1/2	2 3/4	90°	1 1/4	1 %								9.0
4	36		1 %	5/8	3/4		6	2	4	4 1/2	8	6 %	1	3	1/2	2 3/4	90°	1 1/4	1 %								9.0
5	48		2 1/4	3/4	1		8	2 5/8	5 ½	5 %	10 %	9 1/4	1 3/8	4	5/8	3 %	90°	1 5/8	2 1/2								16.0

COUNTY:

W12-2

HWY:

STANDARD SIGN
W12-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rauch
For State Traffic Engineer
DATE 3/13/13 PLATE NO. W12-2.9

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W122.DGN

PROJECT NO:

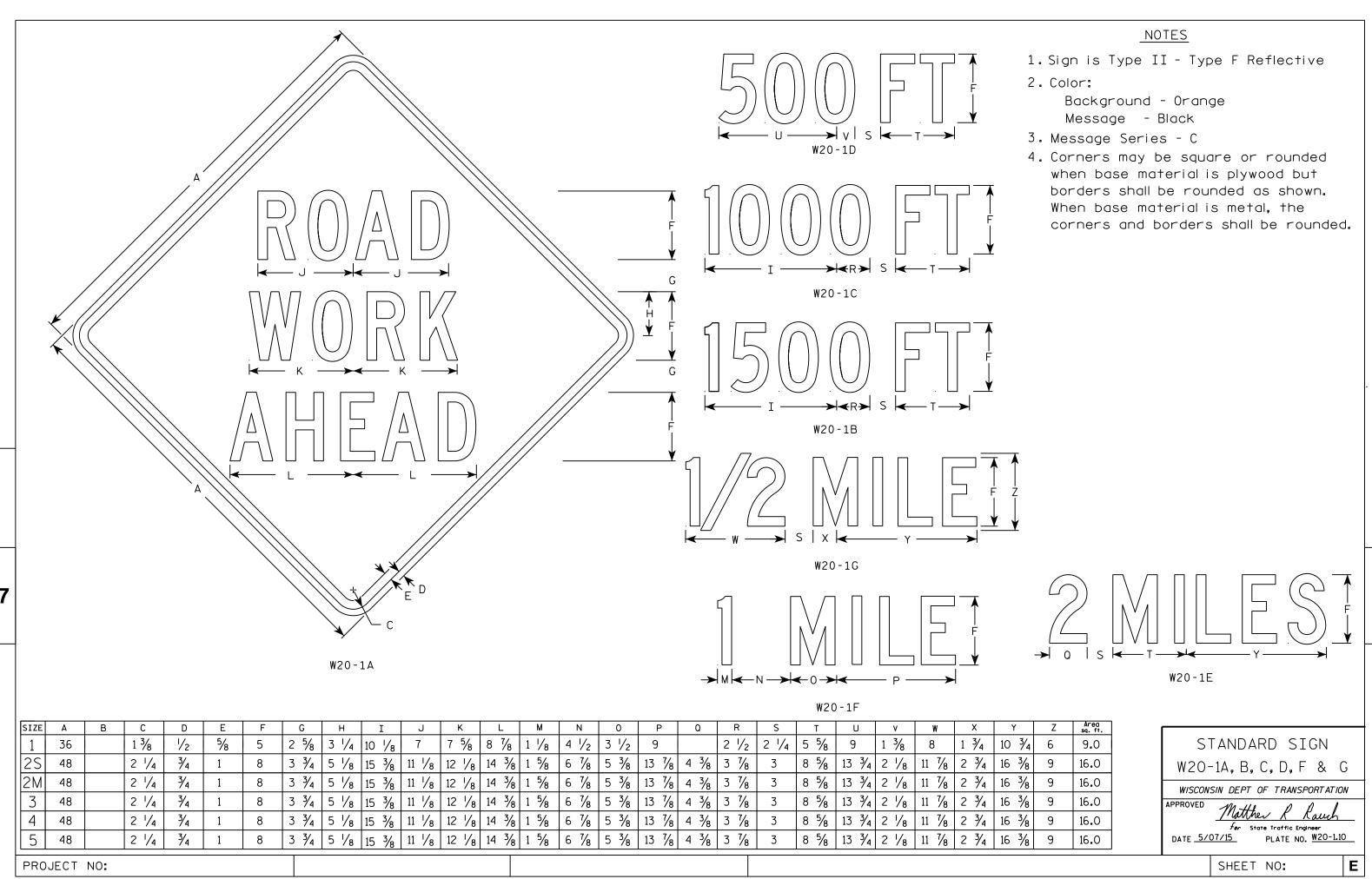
PLOT DATE: 13-MAR-2013 13:27

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: 6.946657:1.000000

WISDOT/CADDS SHEET 42



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

PLOT DATE . 01-DEC-2015 18.24

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

<u>NOTES</u>

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

Background - Orange Message - Black

- 3. Message Series See Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. " LANE" is Series B. Allother copy is Series C.

500 FT

W20-5C

1500 FT



PLOT BY: mscj9h



									W20-	5A																	W 4	20-3F
SI	ZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	V	W	Х	Y	Z	Area sq. ft.
	1	36	6	1 5/8	5/8	₹4	5	7/8	2 1/2	13 1/8	10 ¾	9 1/2	14 1/4	13 %	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 %	10 1/8	2 1/2	1 3/4	8	9.0
2	?S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 %	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0
2	M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 %	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0
	3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 %	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0
	4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 %	1 1/2	6	4 5/8	12	2 %	7 1/2	13 1/2	3 %	2 3/8	10 %	16.0
	5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 %	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0

COUNTY:

STANDARD SIGN W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rauch

For State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

SHEET NO:

PROJECT NO:

HWY:

W20-56A

W20-55A

<u>NOTES</u>

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

Background - Orange Message - Black

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

A
SHOULDER
W21-5

ВС SIZE A D Ε G H L N 0 0 Х 3/8 1/2 4 2 1/2 10 3/4 6 24 1 1/8 4.0 5/8 3 | 13 3/8 | 7 1/2 1 3/8 30 1/2 5 6.25 2M 1/2 5/8 13 3/8 7 1/2 30 5 3 6.25 3 36 5/8 *¾* 6 1 1/8 3 1/2 | 16 | 9 9.0 4 2 1/4 3/4 5 21 3/8 11 1/4 48 8 16.0 1 5 2 1/4 ¾ 21 3/8 | 11 1/4 16.0 48

COUNTY:

STANDARD SIGN W21-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED MAHLO P P

DATE 3/21/11 PLATE NO. W21-5.5

SHEET NO:

PROJECT NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W215.DCN

HWY:

PLOT DATE: 21-MAR-2011 08:01

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: 6.207338:1.000000

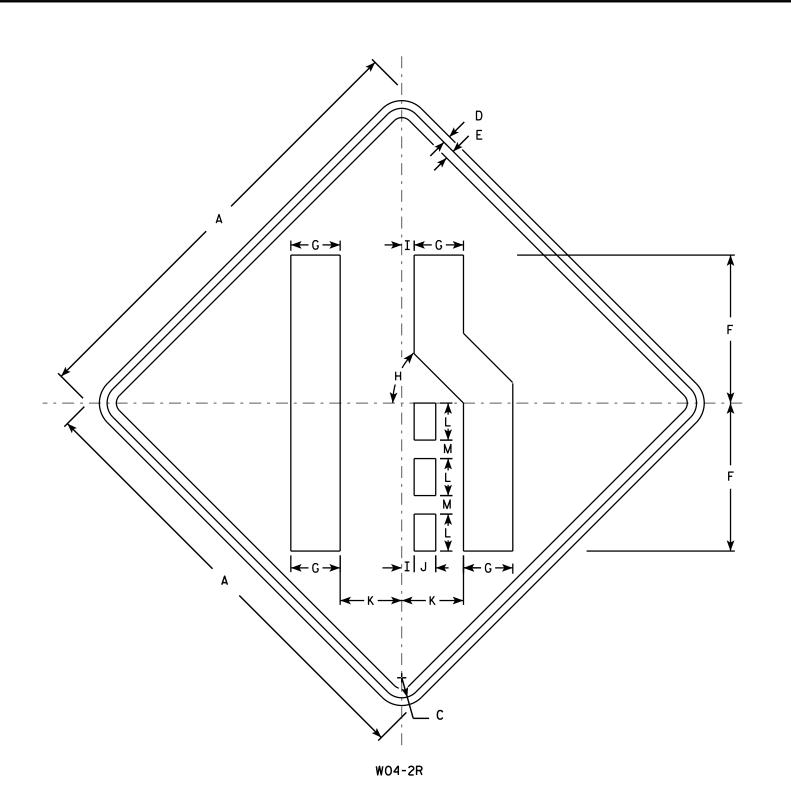
WISDOT/CADDS SHEET 42

NOTES

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

Background - Orange Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W04-2L is the same as W04-2R except the symbolis reversed along the vertical centerline.



SIZE	Α	В	С	D	Ε	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1 2S 2M 3 4	36		1 1/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 ¾	4	2														16.0
2M	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 ¾	4	2														16.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 ¾	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 ¾	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 ¾	4	2														16.0

STANDARD SIGN WO4-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

//WMW/ / / Ad ForState Traffic Engineer

DATE 11/20/13 PLATE NO. W04-2.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W042.DGN

PROJECT NO:

PLOT DATE: 20-NOV-2013 11:43

PLOT BY: mscsja



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov