

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

PINE RIVER - POY SIPPI

W OF BEECHNUT LANE TO STH 49

CTH H

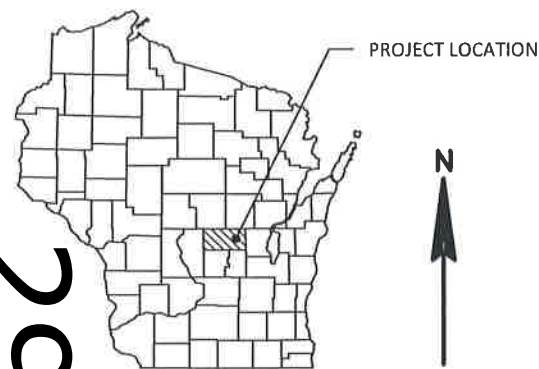
WAUSHARA COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6910-01-71	WISC 2020550	1

ORDER OF SHEETS

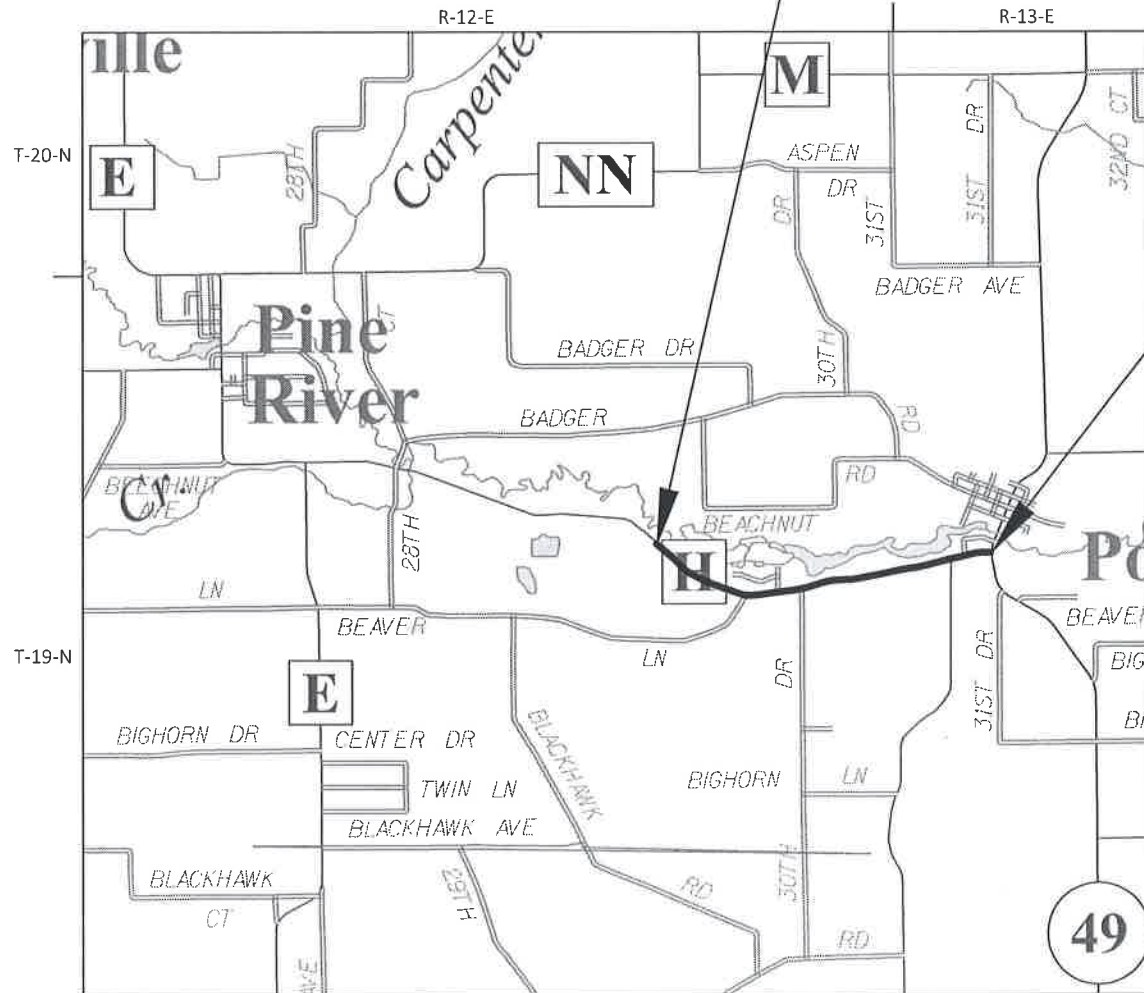
Section No.	Title
1	Title
2	Typical Sections and Details (Includes Erosion Control)
3	Estimate of Quantities
3	Miscellaneous Quantities
4	Right of Way Plat
5	Plan and Profile
6	Standard Detail Drawings
7	Sign Plates
8	Structure Plans
9	Computer Earthwork Data
9	Cross Sections

TOTAL SHEETS = 72



STATE PROJECT NUMBER
6910-01-71

BEGIN PROJECT 6910-01-71
STA. 199+75
Y= 155,852.47
X= 448,859.27



END PROJECT 6910-01-71
STA. 299+41.08
Y= 155,324.69
X= 458,207.07

29

DESIGN DESIGNATION

A.A.D.T. (2019)	=	1,800
A.A.D.T. (2039)	=	2,000
D.H.V.	=	260
D.D.	=	60/40
T.	=	6.0%
DESIGN SPEED	=	55 MPH
ESALS	=	300,000

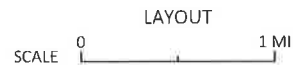
CONVENTIONAL SYMBOLS

PLAN

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

PROFILE

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



TOTAL NET LENGTH OF CENTERLINE 6910-01-71 = 1.888 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, WAUSHARA 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.

ACCEPTED FOR
COUNTY OF WAUSHARA

(Signature of Official)
Date 6-17-20 Highway Commissioner
(Title of Official)

ORIGINAL PLANS PREPARED BY



1230 South Boulevard, Baraboo, WI 53913
608-356-2771 1-800-362-4505



STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	
Surveyor	MSA PROFESSIONAL SERVICES, INC.
Designer	MSA PROFESSIONAL SERVICES, INC.
Regional Examiner	JASON SCHAEFFER
Regional Supervisor	DAN ERVA, P.E.

APPROVED FOR THE DEPARTMENT
DATE: 7/13/2020
(Signature)

E

GENERAL NOTES

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.

WHEN THE QUANTITY OF BASE AGGREGATE OR ASPHALTIC SURFACE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OF THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

PLACE A BUTT JOINT AT ALL LOCATIONS WHERE NEW PAVEMENT IS TO MATCH EXISTING PAVEMENT. SAWCUT OR REMOVE ALL BUTT JOINTS AS APPROVED BY THE ENGINEER TO PROVIDE A VERTICAL FACE.

HMA WEIGHT CALCULATIONS BASED ON 113 LBS/SY/IN.

RIGHT OF WAY LOCATIONS ARE APPROXIMATE.

SOIL BORING LOG				
BORING NO.	STATION	OFFSET FROM CL	ASPHALT DEPTH IN INCHES	UNDERLYING MATERIAL
4	221+00	6' RT	8"	2" BASE COURSE, 2.7' LOOSE SAND (FILL), 1.5' LOOSE SAND (NATIVE)
5	282+00	5.5' LT	8.5"	4.5" BASE COURSE, 2.4' LOOSE SAND (FILL), 1.5' LOOSE SAND (NATIVE)

RUNOFF COEFFICIENT TABLE

A	HYDROLOGIC SOIL GROUP											
	B			C			D			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 = 6.86 ACRES
 TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.40 ACRES

SECTION 2 ORDER

GENERAL NOTES
 PROJECT OVERVIEW
 TYPICAL SECTIONS
 CONSTRUCTION DETAILS
 CONTROL POINT TIES
 EROSION CONTROL
 TRAFFIC CONTROL

DESIGN CONSULTANT

MSA PROFESSIONAL SERVICES, INC.
 BOBBI MAXWELL
 1230 SOUTH BLVD
 BARABOO, WI, 53913
 PHONE: (608) 355-8861
 EMAIL: BMAXWELL@MSA-PS.COM

AGENCIES

DEPARTMENT OF NATURAL RESOURCES
 BRAD BETTHAUSER
 473 GRIFFITH DRIVE
 WISCONSIN RAPIDS, WI 54494
 PHONE: (715) 421-7851
 EMAIL: BRADLEY.BETTHAUSER@WISCONSIN.GOV

HIGHWAY DEPARTMENT

WAUSHARA COUNTY HIGHWAY DEPARTMENT
 BRIAN FREIMARK
 1001 EAST MAIN ST.
 WAUTOMA, WI, 54982
 PHONE: (920) 787-3327
 EMAIL: BRIAN.FREIMARK@CO.WAUSHARA.WI.US

ELECTRIC

ALLIANT ENERGY
 MARK VILLARS
 880 NORTH WISCONSIN ST.
 BERLIN, WI, 54923
 PHONE: (920) 361-5652
 EMAIL: MARKVILLARS@ALLIANTENERGY.COM

GAS

WE ENERGIES
 TRAVIS KAHL
 1921 8TH STREET SOUTH
 WISCONSIN RAPIDS, WI, 54494
 PHONE: (715) 421-7256
 EMAIL: TRAVIS.KAHL@WE-ENERGIES.COM

FIBER

AT&T DISTRIBUTION
 CHUCK BARTELT
 70 EAST DIVISION STREET
 FOND DU LAC, WI, 54935
 PHONE: (920) 929-1013
 EMAIL: CB1461@ATT.COM

TELEPHONE

CENTURYLINK
 TIM KROEZE
 19 WEST FOND DU LAC ST.
 RIPON, WI, 54971
 PHONE: (920) 748-8491
 EMAIL: TIM.KROEZE@CENTURYLINK.COM

SANITARY SEWER

*RONALD HEIN
 POY SIPPI SANITARY DISTRICT PLAN OPERATOR
 PO BOX 130
 POY SIPPI, WI, 54967
 PHONE: (920) 407-1426

* - NOT A MEMBER OF DIGGERS HOTLINE





PROJECT NO: 6910-01-71

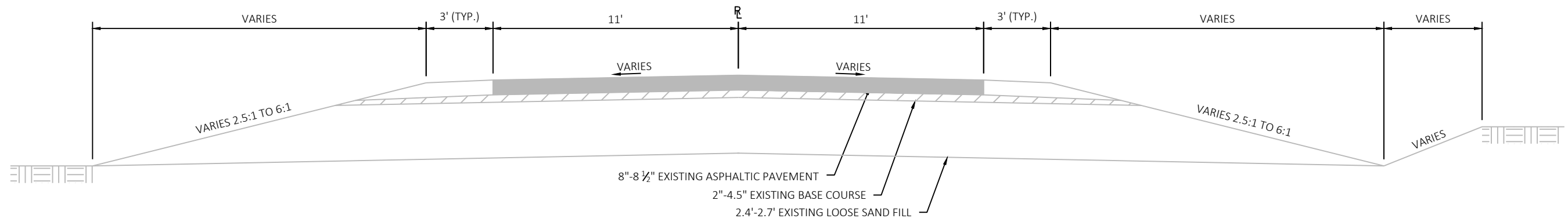
HWY: CTH H

COUNTY: WAUSHARA

PROJECT OVERVIEW

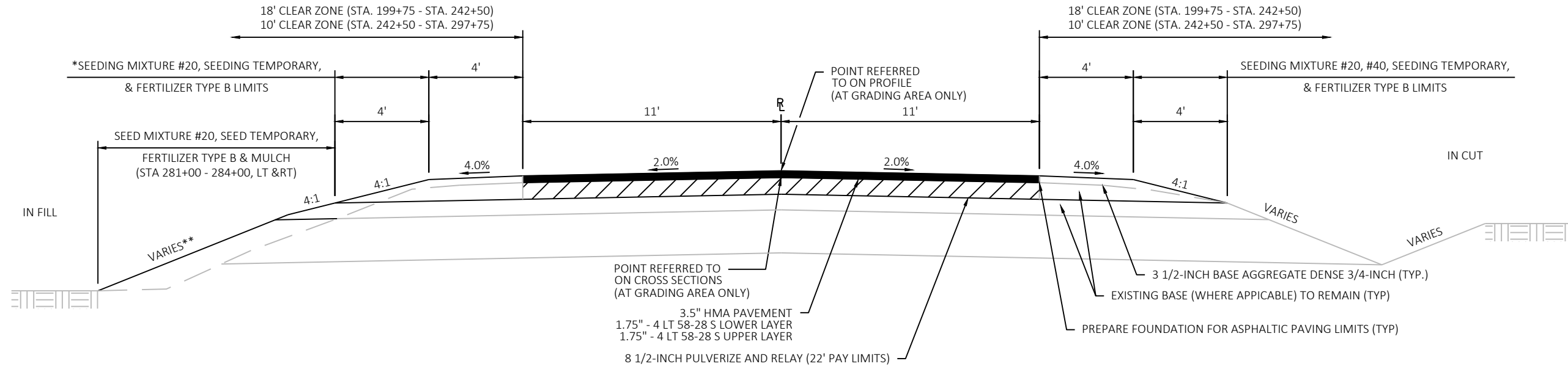
SHEET

E



EXISTING TYPICAL SECTION

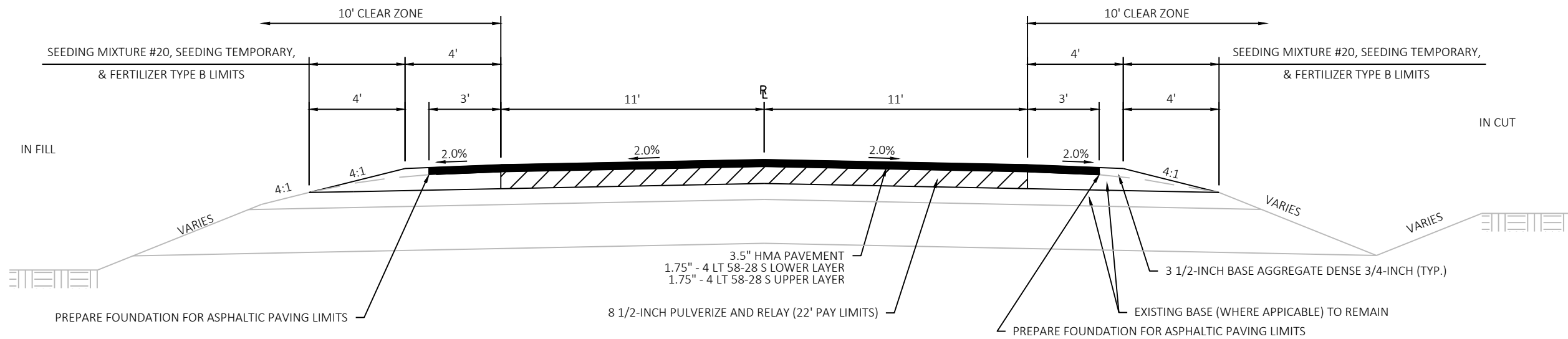
CTH H
 STA. 199+75 - STA. 299+41.08



* SEEDING MIXTURE #40 TO BE USED AT THESE LOCATIONS:
 STA. 270+00 - STA. 281+19 LT/RT
 STA. 283+00 - STA. 299+41 LT
 STA. 283+29 - STA. 299+41 RT

FINISHED TYPICAL SECTION

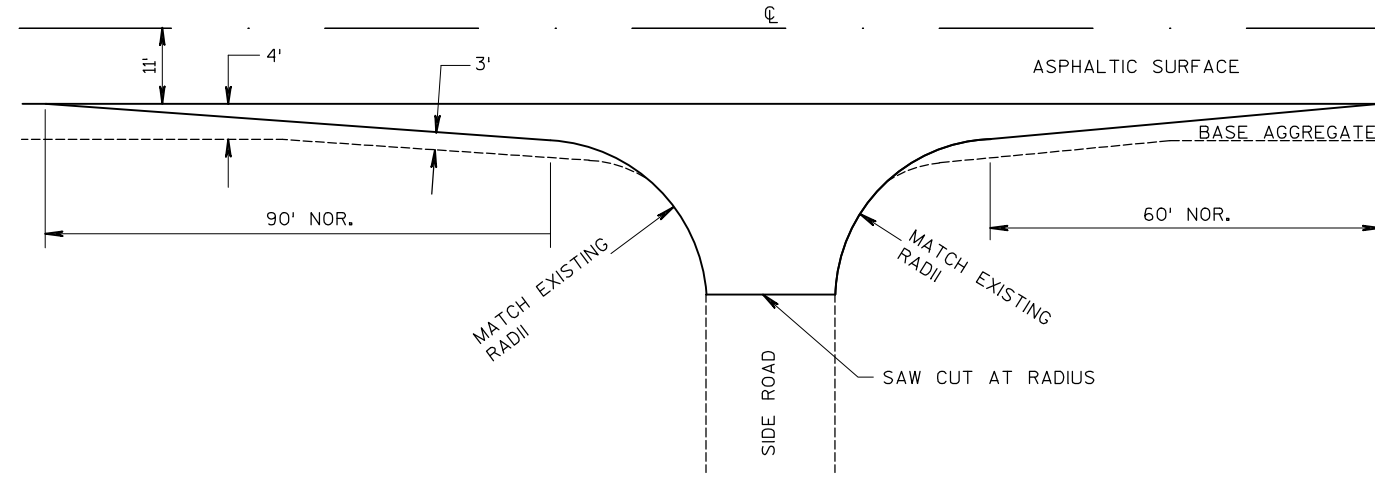
CTH H
 STA. 199+75 - STA. 288+00
 STA. 293+00 - STA. 299+41.08



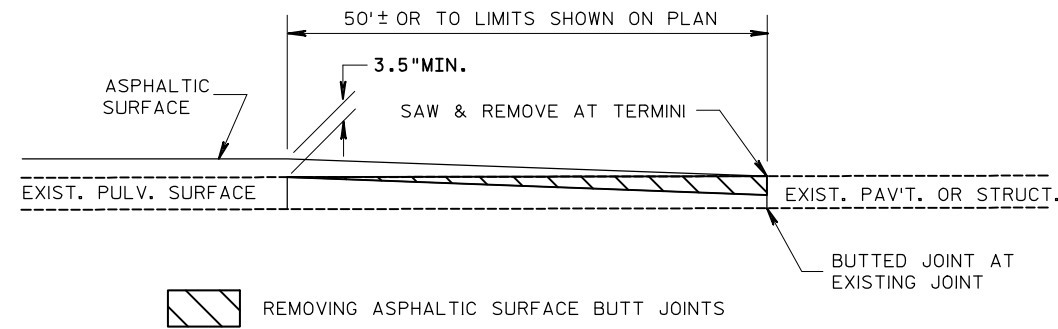
FINISHED TYPICAL SECTION

CTH H
 STA. 288+00 - STA. 293+00

** = FOR SLOPES STEEPER THAN 2.5:1,
 USE MEDIUM RIPRAP OVER GEOTEXTILE HR.
 SEE PLANS.

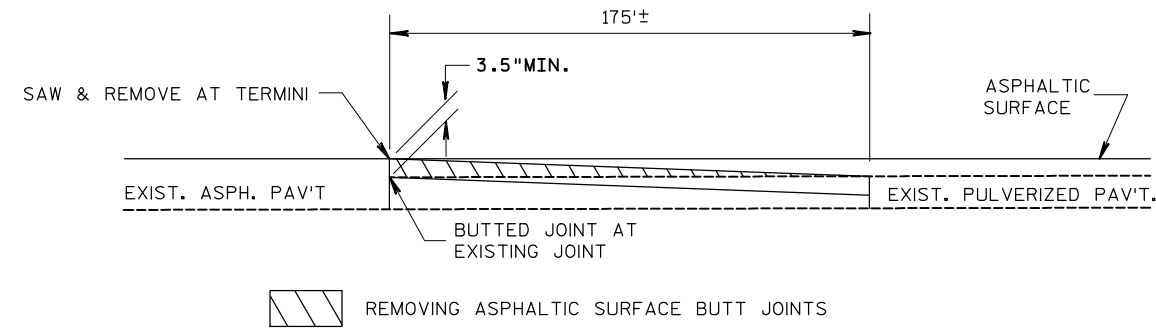


SIDE ROAD DETAIL, SPECIAL
(BASE AGGREGATE SHOULDERS)



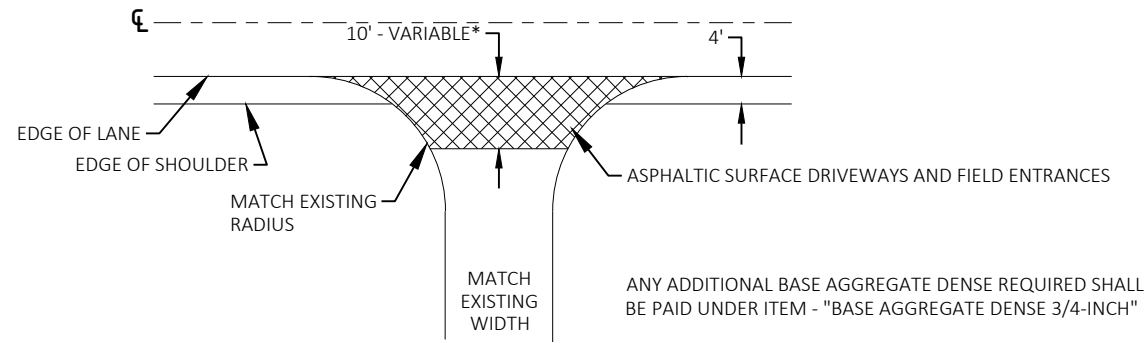
OVERLAP JOINT, BUTTED DETAIL

STA 298+91 - STA 299+41
BEECHNUT LANE
BIRCH LANE
30TH DR.
CTH SS
ROBERT ST.

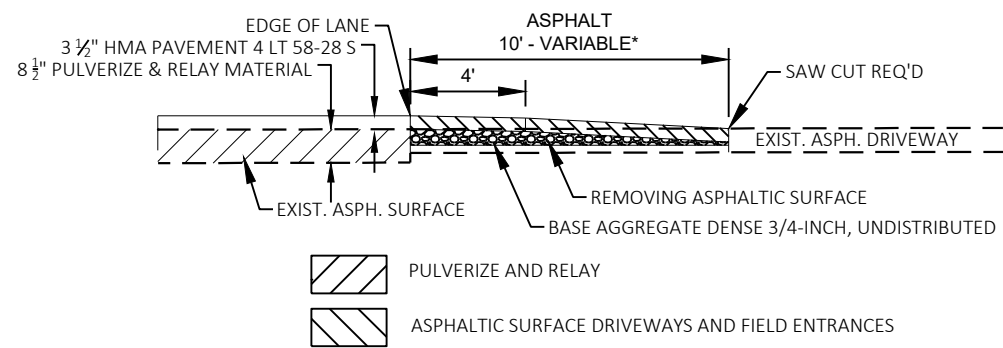


OVERLAP JOINT, BUTTED DETAIL

STA 198+00 - STA 199+75



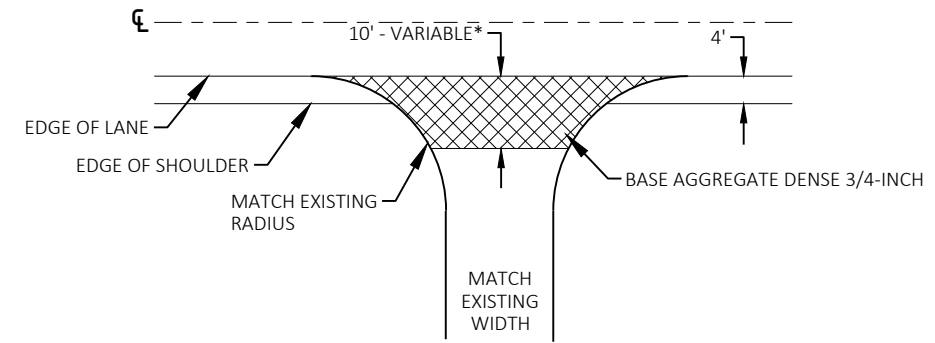
PLAN VIEW



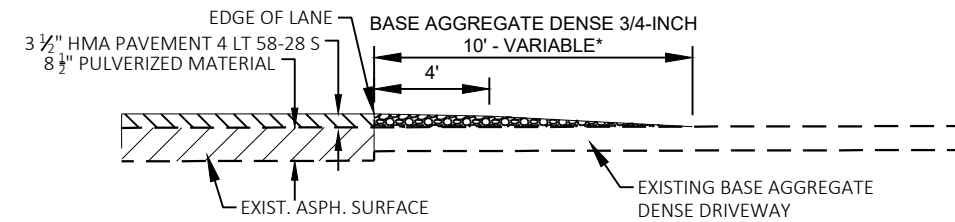
ELEVATION VIEW



ASPHALTIC DRIVEWAY DETAIL

* EXACT DIMENSIONS TO BE DETERMINED BY ENGINEER IN THE FIELD



PLAN VIEW

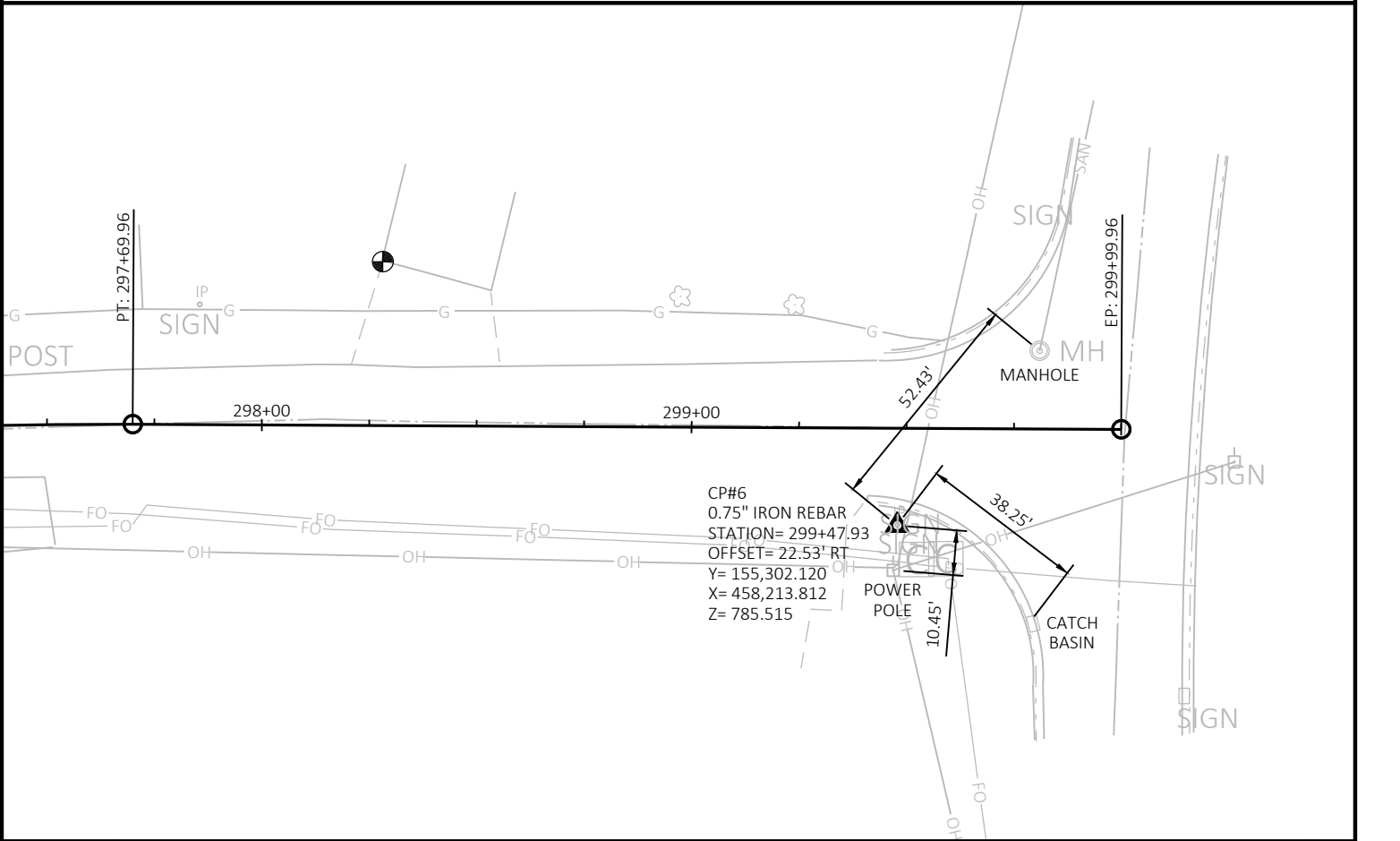
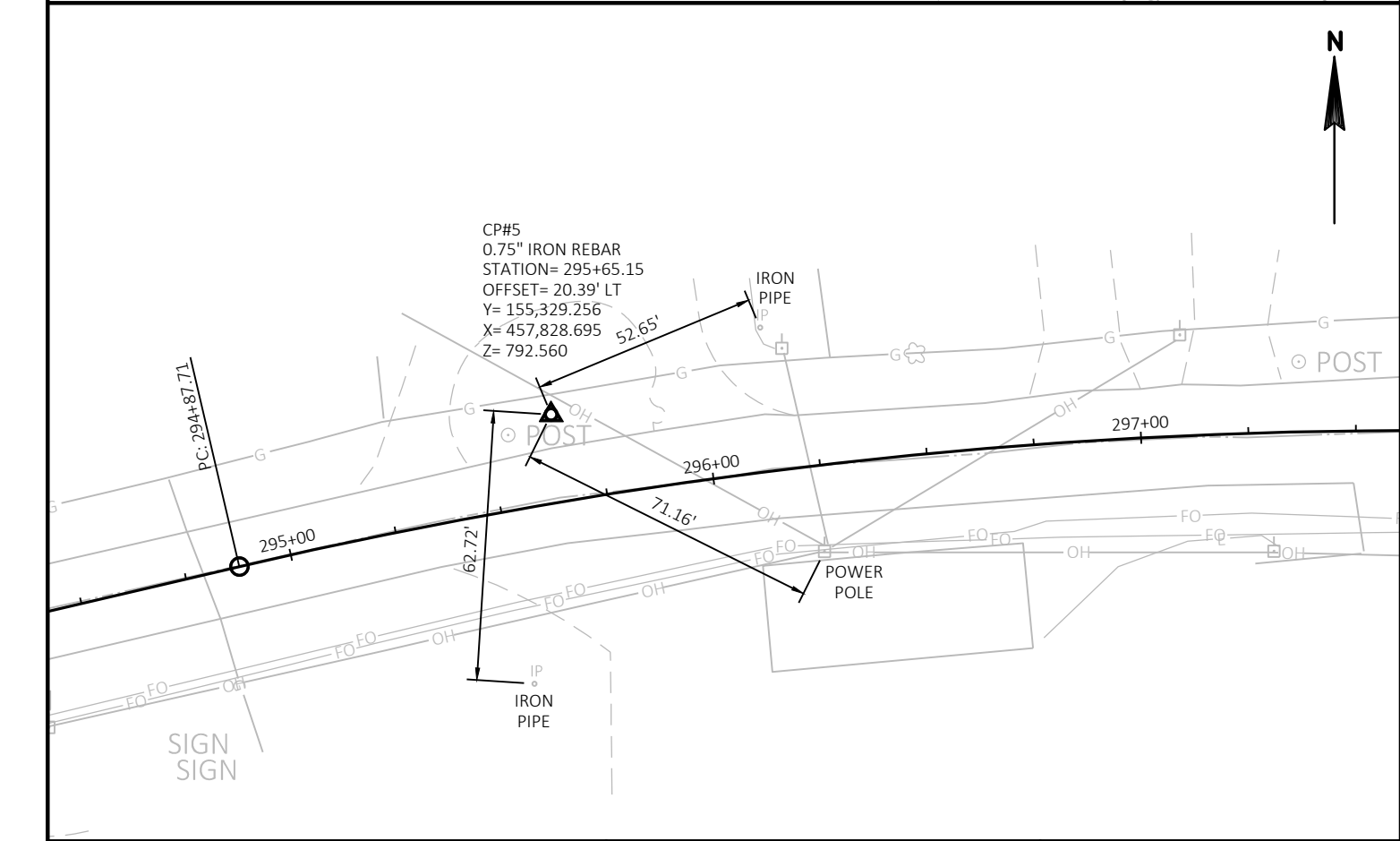
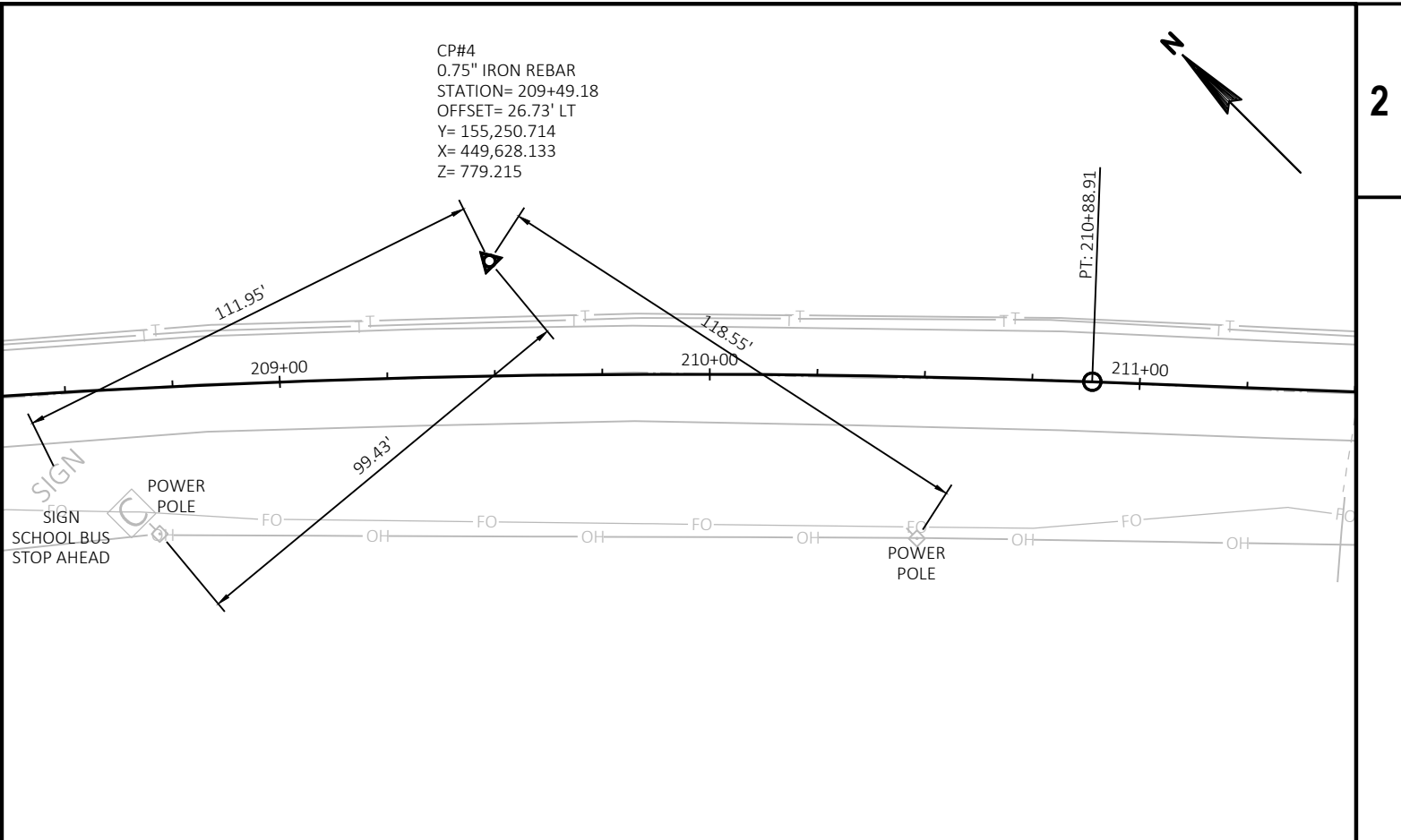
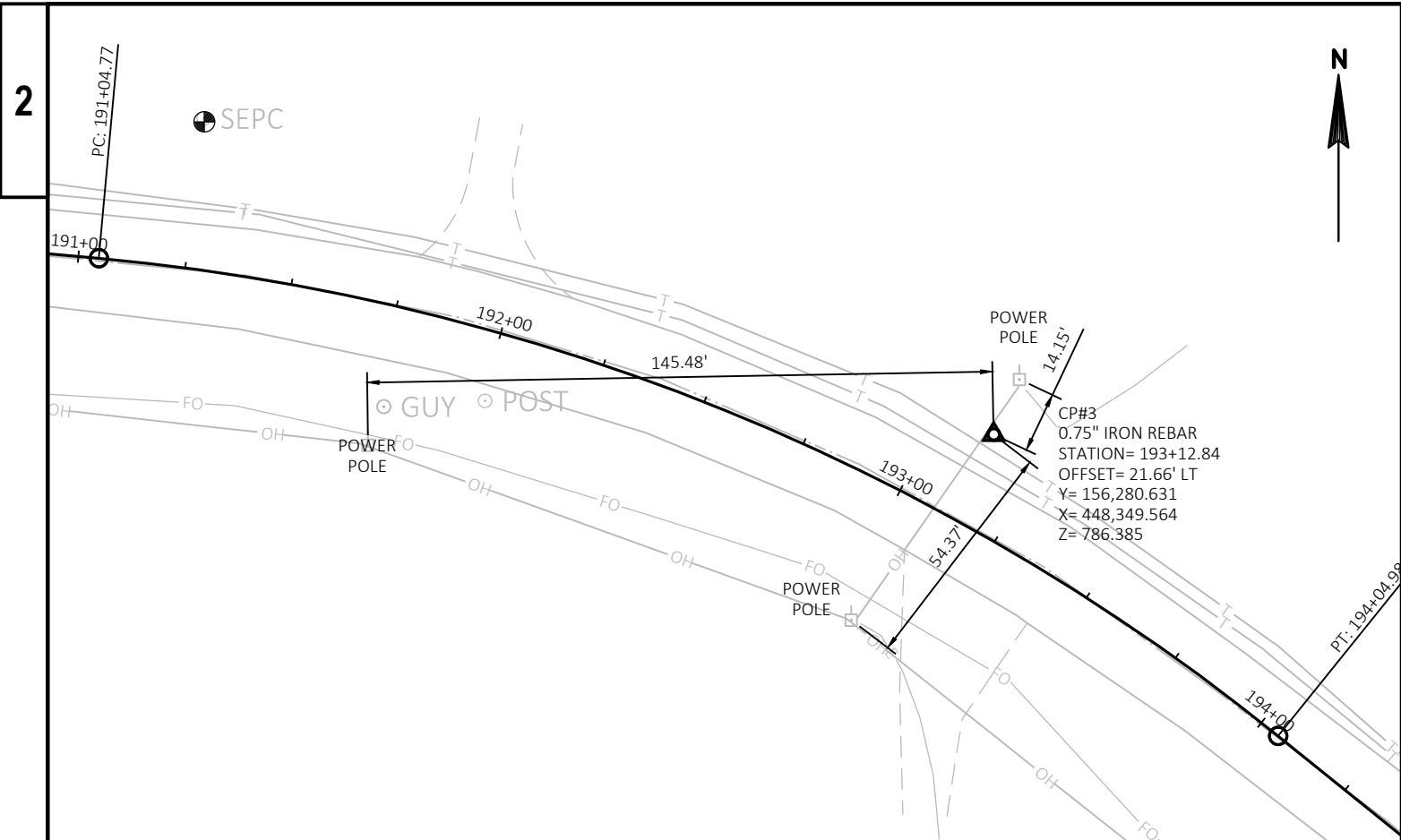


-  PULVERIZE AND RELAY
-  HMA PAVEMENT 4 LT 58-28 S

ELEVATION VIEW

BASE AGGREGATE DRIVEWAY DETAIL

* EXACT DIMENSIONS TO BE DETERMINED BY ENGINEER IN THE FIELD



PROJECT NO: 6910-01-71

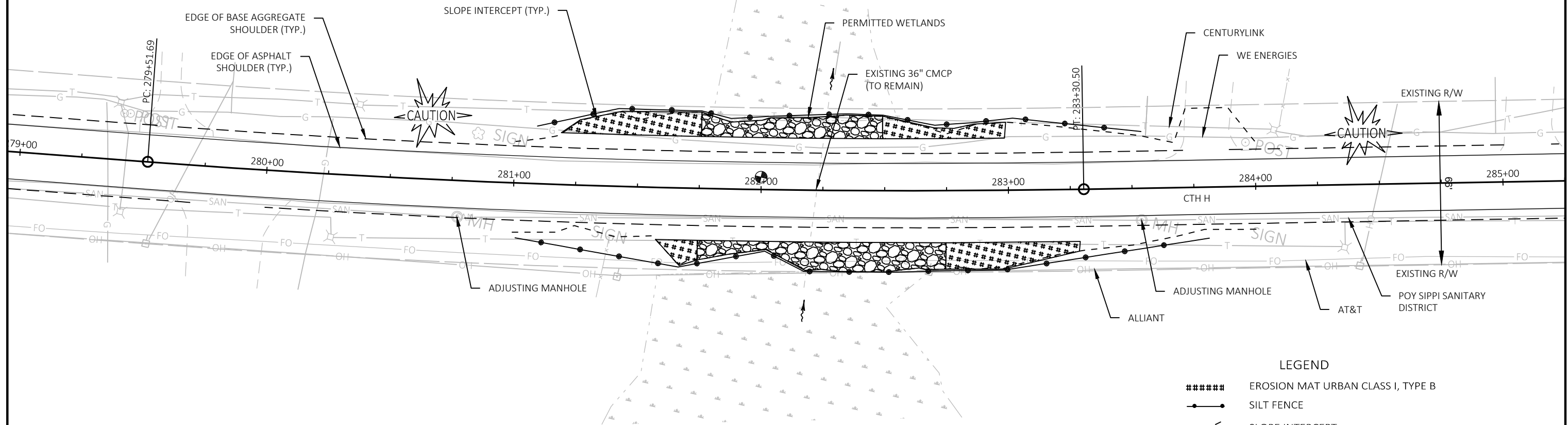
HWY: CTH H

COUNTY: WAUSHARA

CONTROL POINT TIES

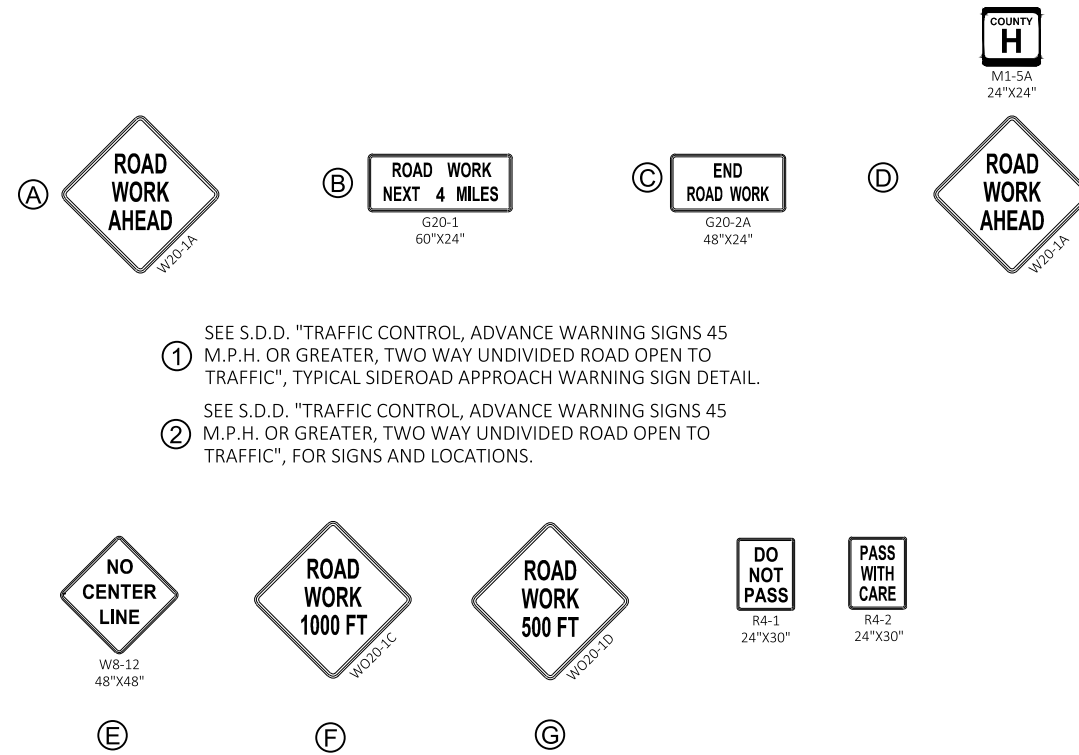
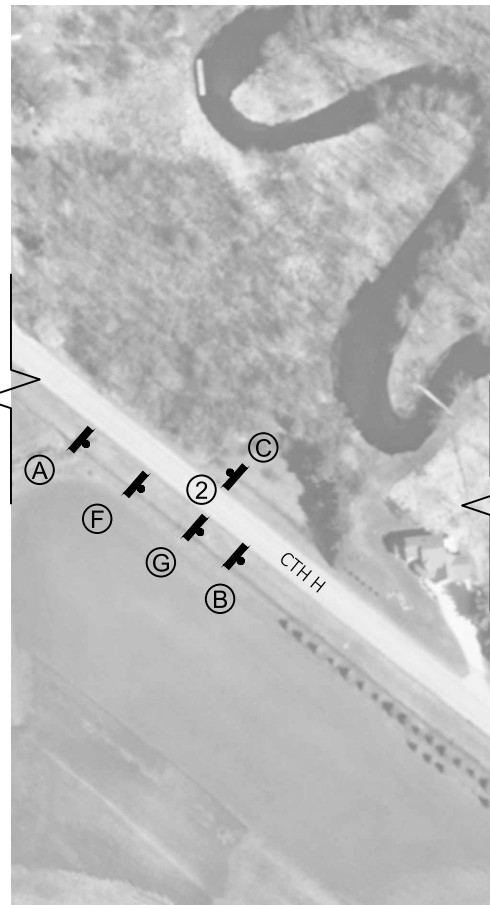
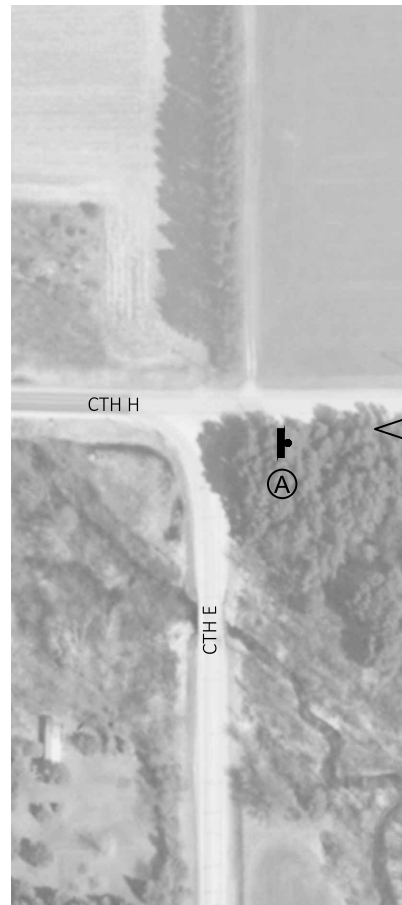
SHEET

E



- LEGEND**
- ##### EROSION MAT URBAN CLASS I, TYPE B
 - SILT FENCE
 - - - SLOPE INTERCEPT
 - SURFACE WATER FLOW
 - RIPRAP MEDIUM OVER GEOTEXTILE HR

NOTE: DO NOT WORK OR STORE MATERIALS OUTSIDE THE SLOPE INTERCEPTS IN AREAS WITH ADJACENT WETLANDS.



- ① SEE S.D.D. "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC", TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL.
- ② SEE S.D.D. "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC", FOR SIGNS AND LOCATIONS.

TRAFFIC CONTROL GENERAL NOTES

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED.

A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE "WORK ZONES" IF WARRANTED BY CONDITIONS AND/OR AS DIRECTED BY THE ENGINEER. THE COST OF FLAGGING SHALL BE INCIDENTAL TO OTHER ITEMS IN THE CONTRACT.

ALL SIGN LOCATIONS ARE APPROXIMATE. ACTUAL LOCATIONS WILL BE DETERMINED BY FIELD CONDITIONS AND BY THE ENGINEER IN THE FIELD.

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

TRAFFIC CONTROL SIGNS SHALL BE COVERED OR REMOVED WHEN NOT APPLICABLE OR AS DIRECTED BY THE ENGINEER.

SEE S.D.D. "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION" FOR ADDITIONAL TRAFFIC CONTROL REQUIREMENTS.

USE W8-12 EVERY HALF MILE WHEN THE CENTER OF PAVEMENT IS NOT MARKED.

DO NOT PASS SIGNS SHALL BE INSTALLED AT THE BEGINNING OF NO PASSING ZONES. ADDITIONAL DO NOT PASS SIGNS SHALL BE INSTALLED AT ONE MILE INTERVALS AND AFTER COUNTY HIGHWAY INTERSECTIONS WITHIN THE NO PASSING ZONE.

PASS WITH CARE SIGNS SHALL BE PLACED AT THE DOWNSTREAM END OF NO PASSING ZONES.

Estimate Of Quantities

6910-01-71

Line	Item	Item Description	Unit	Total	Qty
0002	204.0110	Removing Asphaltic Surface	SY	1,117.000	1,117.000
0004	204.0115	Removing Asphaltic Surface Butt Joints	SY	1,481.000	1,481.000
0006	205.0100	Excavation Common	CY	66.000	66.000
0008	208.0100	Borrow	CY	78.000	78.000
0010	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 6910-01-71	LS	1.000	1.000
0012	213.0100	Finishing Roadway (project) 01. 6910-01-71	EACH	1.000	1.000
0014	305.0110	Base Aggregate Dense 3/4-Inch	TON	6,612.000	6,612.000
0016	325.0100	Pulverize and Relay	SY	24,240.000	24,240.000
0018	455.0605	Tack Coat	GAL	3,624.000	3,624.000
0020	460.2000	Incentive Density HMA Pavement	DOL	3,450.000	3,450.000
0022	460.5224	HMA Pavement 4 LT 58-28 S	TON	5,329.000	5,329.000
0024	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	228.000	228.000
0026	606.0200	Riprap Medium	CY	107.000	107.000
0028	611.8110	Adjusting Manhole Covers	EACH	3.000	3.000
0030	619.1000	Mobilization	EACH	1.000	1.000
0032	623.0200	Dust Control Surface Treatment	SY	24,240.000	24,240.000
0034	624.0100	Water	MGAL	172.180	172.180
0036	625.0100	Topsoil	SY	189.000	189.000
0038	627.0200	Mulching	SY	500.000	500.000
0040	628.1504	Silt Fence	LF	664.000	664.000
0042	628.1520	Silt Fence Maintenance	LF	664.000	664.000
0044	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0046	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0048	628.2008	Erosion Mat Urban Class I Type B	SY	189.000	189.000
0050	628.7504	Temporary Ditch Checks	LF	60.000	60.000
0052	628.7570	Rock Bags	EACH	40.000	40.000
0054	629.0210	Fertilizer Type B	CWT	5.500	5.500
0056	630.0120	Seeding Mixture No. 20	LB	216.000	216.000
0058	630.0140	Seeding Mixture No. 40	LB	59.000	59.000
0060	630.0200	Seeding Temporary	LB	208.000	208.000
0062	630.0500	Seed Water	MGAL	289.000	289.000
0064	634.0414	Posts Wood 4x4-Inch X 14-FT	EACH	36.000	36.000
0066	634.0416	Posts Wood 4x4-Inch X 16-FT	EACH	4.000	4.000
0068	637.2210	Signs Type II Reflective H	SF	140.750	140.750
0070	637.2230	Signs Type II Reflective F	SF	106.860	106.860
0072	638.2602	Removing Signs Type II	EACH	43.000	43.000
0074	638.3000	Removing Small Sign Supports	EACH	33.000	33.000
0076	642.5001	Field Office Type B	EACH	1.000	1.000
0078	643.0300	Traffic Control Drums	DAY	40.000	40.000

Estimate Of Quantities

6910-01-71

Line	Item	Item Description	Unit	Total	Qty
0080	643.0900	Traffic Control Signs	DAY	1,911.000	1,911.000
0082	643.5000	Traffic Control	EACH	1.000	1.000
0084	645.0120	Geotextile Type HR	SY	290.000	290.000
0086	646.1005	Marking Line Paint 4-Inch	LF	19,817.000	19,817.000
0088	646.4505	Marking Line Same Day Paint 4-Inch	LF	17,513.000	17,513.000
0090	648.0100	Locating No-Passing Zones	MI	1.890	1.890
0092	650.4500	Construction Staking Subgrade	LF	300.000	300.000
0094	650.5000	Construction Staking Base	LF	300.000	300.000
0096	650.8000	Construction Staking Resurfacing Reference	LF	9,966.000	9,966.000
0098	650.9910	Construction Staking Supplemental Control (project) 01. 6910-01-71	LS	1.000	1.000
0100	650.9920	Construction Staking Slope Stakes	LF	300.000	300.000
0102	690.0150	Sawing Asphalt	LF	1,014.000	1,014.000
0104	740.0440	Incentive IRI Ride	DOL	7,683.000	7,683.000
0106	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
0108	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000

REMOVING ASPHALTIC SURFACE

204.0110
REMOVING
ASPHALTIC
SURFACE

CATEGORY	STATION	TO	STATION	LOCATION	SY	REMARKS
0010	203+52	-	203+96	LT	33	DRIVEWAY
	204+23	-	204+62	LT	28	DRIVEWAY
	220+85	-	221+12	RT	19	DRIVEWAY
	222+65	-	222+95	LT	28	DRIVEWAY
	224+42	-	224+79	LT	29	DRIVEWAY
	226+15	-	226+46	LT	24	DRIVEWAY
	249+70	-	250+11	RT	38	DRIVEWAY
	249+41	-	249+77	LT	33	DRIVEWAY
	252+99	-	253+32	LT	23	DRIVEWAY
	255+52	-	255+79	RT	24	DRIVEWAY
	263+25	-	263+54	RT	23	DRIVEWAY
	264+40	-	264+73	LT	25	DRIVEWAY
	266+20	-	266+75	LT	46	DRIVEWAY
	268+31	-	268+73	LT	36	DRIVEWAY
	272+30	-	272+60	LT	22	DRIVEWAY
	275+97	-	276+38	LT	35	DRIVEWAY
	277+11	-	277+44	RT	30	DRIVEWAY
	278+52	-	278+89	RT	34	DRIVEWAY
	279+48	-	279+77	LT	27	DRIVEWAY
	279+61	-	280+12	RT	46	DRIVEWAY
	283+57	-	284+00	LT	29	DRIVEWAY
	284+97	-	285+28	LT	26	DRIVEWAY
	286+21	-	286+52	LT	25	DRIVEWAY
	286+60	-	287+06	LT	43	DRIVEWAY
	293+52	-	294+15	RT	48	DRIVEWAY
	295+18	-	295+45	LT	26	DRIVEWAY
	295+88	-	296+21	LT	26	DRIVEWAY
	297+33	-	299+41	RT	291	DRIVEWAY
TOTAL 0010					1,117	

REMOVING ASPHALTIC SURFACE BUTT JOINTS

204.0115
REMOVING
ASPHALTIC
SURFACE BUTT
JOINTS

CATEGORY	STATION	TO	STATION	LOCATION	SY
0010	198+00	-	199+75	CTH H	428
0010	298+91	-	299+41	CTH H	123
0010	-	-	-	BEECHNUT LANE	217
0010	-	-	-	BIRCH LANE	204
0010	-	-	-	30TH DR	228
0010	-	-	-	CTH SS	170
0010	-	-	-	ROBERT ST	111
TOTAL 0010					1,481

DIVISION	FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION (1)		SALVAGED/UNUSABLE PAVEMENT MATERIAL (4)	AVAILABLE MATERIAL (5)	UNEXPANDED FILL	EXPANDED FILL (13)	MASS ORDINATE +/- (14)	WASTE	208.0100 BORROW	COMMENT:
			CUT (2)	EBS EXCAVATION (3)								
DIVISION 1												
EWKDetail-CTH H.xml	281+00/284+00		66	0	28	38	93	116	-78	0	78	
DIVISION 1 SUBTOTAL			66	0	28	38	93	116	-78	0	78	
GRAND TOTAL			66	0	28	38	93	116	-78	0	78	
TOTAL COMMON EXC			66									

NOTES:

- (1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
- (2) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
- (4) SALVAGED/UNUSABLE PAVEMENT MATERIAL
- 5) AVAILABLE MATERIAL = CUT - SALVAGED/UNUSABLE PAVEMENT MATERIAL
- (13) EXPANDED FILL FACTOR = 1.25
- (14) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

3

3

PREPARE FOUNDATIONS

PULVERIZE AND RELAY

211.0100.01
PREPARE
FOUNDATION FOR
ASPHALTIC PAVING
(6910-01-71)

325.0100

623.0200

*
624.0100

CATEGORY	STATION	TO	STATION	LOCATION	PULVERIZE AND RELAY SY	DUST CONTROL SURFACE TREATMENT SY	WATER MGAL
0010	199+75	-	298+91	CTH H	24,240	24,240	73
TOTAL 0010					24,240	24,240	73

BASE AGGREGATE DENSE ITEMS

CATEGORY	LOCATION	LS
0010	PROJECT 6910-01-71 288+00 - 293+00	1
TOTAL 0010		1

*QUANTITIES SHOWN ELSEWHERE IN PLAN

CATEGORY	STATION	TO	STATION	LOCATION	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	624.0100 * WATER MGAL
0010	199+75	-	299+41	SHOULDERS	2,300	34.5
0010	200+99	-	201+51	DRIVEWAY LT	7	0.1
0010	213+50	-	213+83	DRIVEWAY RT	6	0.1
0010	215+31	-	215+84	DRIVEWAY LT	7	0.1
0010	222+30	-	222+54	DRIVEWAY RT	4	0.1
0010	226+96	-	227+15	DRIVEWAY LT	3	0.0
0010	238+84	-	239+08	DRIVEWAY RT	4	0.1
0010	241+61	-	241+96	DRIVEWAY RT	5	0.1
0010	244+67	-	244+99	DRIVEWAY RT	5	0.1
0010	245+60	-	246+00	DRIVEWAY RT	5	0.1
0010	247+08	-	247+53	DRIVEWAY LT	6	0.1
0010	253+89	-	254+05	DRIVEWAY RT	3	0.0
0010	256+40	-	256+60	DRIVEWAY RT	3	0.0
0010	255+61	-	255+81	DRIVEWAY LT	4	0.1
0010	257+93	-	258+22	DRIVEWAY LT	4	0.1
0010	258+80	-	259+11	DRIVEWAY RT	4	0.1
0010	259+09	-	259+34	DRIVEWAY LT	3	0.0
0010	260+33	-	260+51	DRIVEWAY RT	3	0.0
0010	265+39	-	265+72	DRIVEWAY LT	4	0.1
0010	268+17	-	268+72	DRIVEWAY RT	7	0.1
0010	271+56	-	271+95	DRIVEWAY RT	5	0.1
0010	272+34	-	272+72	DRIVEWAY RT	6	0.1
0010	274+09	-	274+48	DRIVEWAY RT	5	0.1
0010	274+34	-	274+63	DRIVEWAY LT	4	0.1
0010	275+37	-	275+69	DRIVEWAY RT	5	0.1
0010	275+95	-	276+38	DRIVEWAY RT	6	0.1
0010	276+95	-	277+39	DRIVEWAY LT	6	0.1
0010	278+32	-	278+67	DRIVEWAY LT	5	0.1
0010	287+95	-	288+39	DRIVEWAY LT	7	0.1
0010	293+99	-	294+23	DRIVEWAY LT	4	0.1
0010	295+35	-	297+49	DRIVEWAY RT	37	0.6
0010	296+74	-	297+00	DRIVEWAY LT	4	0.1
0010	297+10	-	297+33	DRIVEWAY LT	4	0.1
0010	298+20	-	298+56	DRIVEWAY LT	6	0.1
0010	201+50	-	226+50	CURVE	1,638	24.6
0010	229+75	-	234+75	CURVE	233	3.5
0010	239+00	-	249+76	CURVE	356	5.3
0010	253+25	-	265+75	CURVE	592	8.9
0010	271+79	-	281+00	CURVE	113	1.7
0010	293+00	-	299+50	CURVE	189	2.8
0010	UNDISTRIBUTED				1,000	15.0
TOTAL 0010					6,612	99

*QUANTITIES SHOWN ELSEWHERE IN PLAN

HMA PAVEMENT

CATEGORY	STATION	TO	STATION	LOCATION	455.0605 TACK COAT GAL	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON
0010	198+00	-	299+41	MAINLINE - UPPER	1,736	2,452	-
0010	198+00	-	299+41	MAINLINE - LOWER	1,736	2,452	-
0010	288+00	-	293+00	PAVED SHLD (UPPER & LOWER)	24	66	-
0010	231+00	-	-	W BEECHNUT LANE	46	129	-
0010	240+00	-	-	BIRCH LANE	24	68	-
0010	246+90	-	-	30TH DRIVE	30	84	-
0010	288+50	-	-	CTH SS	20	56	-
0010	292+50	-	-	ROBERT ST	8	22	-
0010	203+52	-	203+96	LT	-	-	6
0010	204+23	-	204+62	LT	-	-	5
0010	220+85	-	221+12	RT	-	-	4
0010	222+65	-	222+95	LT	-	-	6
0010	224+42	-	224+79	LT	-	-	6
0010	226+15	-	226+46	LT	-	-	5
0010	249+70	-	250+11	RT	-	-	7
0010	249+41	-	249+77	LT	-	-	6
0010	252+99	-	253+32	LT	-	-	4
0010	255+52	-	255+79	RT	-	-	5
0010	261+61	-	262+04	LT	-	-	7
0010	263+25	-	263+54	RT	-	-	4
0010	264+40	-	264+73	LT	-	-	5
0010	266+20	-	266+75	LT	-	-	9
0010	268+31	-	268+73	LT	-	-	7
0010	272+30	-	272+60	LT	-	-	4
0010	275+97	-	276+38	LT	-	-	7
0010	277+11	-	277+44	RT	-	-	6
0010	278+52	-	278+89	RT	-	-	7
0010	279+48	-	279+77	LT	-	-	5
0010	279+61	-	280+12	RT	-	-	9
0010	283+57	-	284+00	LT	-	-	6
0010	284+97	-	285+28	LT	-	-	5
0010	286+21	-	286+52	LT	-	-	5
0010	286+60	-	287+06	LT	-	-	8
0010	286+79	-	287+08	RT	-	-	4
0010	293+52	-	294+15	RT	-	-	9
0010	295+18	-	295+45	LT	-	-	5
0010	295+88	-	296+21	LT	-	-	5
0010	297+33	-	299+41	RT	-	-	57
TOTAL 0010					3,624	5,329	228

*QUANTITIES SHOWN ELSEWHERE IN PLAN

ADJUSTING MANHOLES

CATEGORY	STATION	LOCATION	611.8110 ADJUSTING MANHOLE COVERS EACH	REMARKS
0010	280+77	RT	1	SANITARY MANHOLE
0010	283+54	RT	1	SANITARY MANHOLE
0010	288+63	RT	1	SANITARY MANHOLE
TOTAL 0010			3	

RESTORATION

CATEGORY	STATION	TO	STATION	LOCATION	625.0100	627.0200	628.2008	629.0210	630.0120	630.0140	630.0200	630.0500
					TOPSOIL SY	MULCHING SY	EROSION MAT URBAN CLASS I TYPE B SY	FERTILIZER TYPE B CWT	SEEDING MIXTURE NO. 20 LB	SEEDING MIXTURE NO. 40 LB	SEEDING TEMPORARY LB	SEED WATER MGAL
0010	199+75	-	270+00	CTH H RT/LT	-	-	-	3.9	169	-	113	141
0010	270+00	-	281+19	CTH H RT/LT	-	-	-	-	-	19	-	23
0010	281+19	-	281+75	CTH H LT	51	-	51	0.1	1	-	1	2
0010	281+19	-	281+58	CTH H RT	-	-	-	0.1	1	-	1	1
0010	282+49	-	283+00	CTH H LT	33	-	33	0.1	1	-	1	1
0010	281+58	-	281+75	CTH H RT	13	-	13	0.1	0.3	-	1	1
0010	282+75	-	283+29	CTH H RT	54	-	54	0.1	1	-	1	2
0010	283+00	-	299+41	CTH H LT	-	-	-	-	-	14	24	30
0010	283+29	-	299+41	CTH H RT	-	-	-	-	-	14	24	30
				UNDISTRIBUTED	38	500	38	1.1	43	12	42	58
TOTAL 0010					189	500	189	5.5	216	59	208	289

EROSION CONTROL

CATEGORY	STATION	TO	STATION	LOCATION	606.0200	628.1504	628.1520	628.1905	628.1910	628.7504	628.7570	645.0120
					RIPRAP MEDIUM CY	SILT FENCE LF	SILT FENCE MAINTENANCE LF	MOBILIZATIONS EROSION CONTROL EACH	MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	TEMPORARY DITCH CHECKS LF	ROCK BAGS EACH	GEOTEXTILE TYPE HR SY
0010	281+75	-	282+49	CTH H LT	34	-	-	-	-	-	-	94
0010	281+75	-	282+75	CTH H RT	51	-	-	-	-	-	-	138
0010	281+08	-	283+54	CTH H LT	-	246	246	-	-	-	-	-
0010	281+01	-	283+81	CTH H RT	-	285	285	-	-	-	-	-
0010				UNDISTRIBUTED	22	133	133	-	-	60	40	58
0010				PROJECT 6910-01-71	-	-	-	4	2	-	-	-
TOTAL 0010					107	664	664	4	2	60	40	290

NOTE: LOCATIONS FOR TEMPORARY DITCH CHECKS AND ROCK BAGS ARE TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

PERMANENT SIGNING

CATEGORY	STATION	LOCATION	SIGN CODE	SIGN SIZE (IN X IN)		634.0414	634.0416	637.2210	637.2230	638.2602	638.3000	REMARKS
						POSTS WOOD 4X4-INCH X 14- FT	POSTS WOOD 4X4-INCH X 16- FT	SIGNS TYPE II REFLECTIVE H	SIGNS TYPE II REFLECTIVE F	REMOVING SIGNS TYPE II	REMOVING SMALL SIGN SUPPORTS	
						EACH	EACH	SF	SF	EACH	EACH	
0010	UNDISTRIBUTED (6 SIGNS)		W14-3	48.00	X	36.00	6	--	33.36	--	--	NO PASSING ZONE
0010	206+15	RT	W1-4R	30	X	30	1	--	6.25	1	1	ROAD CURVES AHEAD
0010	206+15	RT	W13-1	18	X	18	--	--	2.25	1	--	45 MPH
0010	208+47	RT	S3-1	36	X	36	1	--	9.00	1	1	SCHOOL BUS STOP AHEAD
0010	220+02	LT	W1-4R	30	X	30	1	--	6.25	1	1	ROAD CURVES AHEAD
0010	220+02	LT	W13-1	18	X	18	--	--	2.25	1	--	45 MPH
0010	226+16	RT	W1-2L	30	X	30	1	--	6.25	1	1	ROAD CURVES LEFT
0010	231+44	RT	R1-1	30	X	30	1	--	6.25	1	1	STOP
0010	231+98	RT	R1-1	30	X	30	1	--	6.25	1	1	STOP
0010	238+26	RT	W3-5	36	X	36	1	--	9.00	2	1	SPEED REDUCTION AHEAD 35 MPH SYMBOL
0010	238+50	LT	W1-2R	30	X	30	1	--	6.25	1	1	ROAD CURVES RIGHT
0010	240+15	LT	R1-1	30	X	30	1	--	6.25	1	1	STOP
0010	242+36	LT	R2-1	24	X	30	1	--	5.00	1	1	SPEED LIMIT 55
0010	242+48	RT	R2-1	24	X	30	1	--	5.00	1	1	SPEED LIMIT 35
0010	246+92	RT	R1-1	30	X	30	1	--	6.25	1	1	STOP
0010	247+82	LT	R2-1	24	X	30	1	--	5.00	1	1	SPEED LIMIT 35
0010	252+78	LT	W2-2	30	X	30	1	--	6.25	1	1	SIDE ROAD (RIGHT ANGLE) SYMBOL
0010	257+69	LT	R2-1	24	X	30	1	--	5.00	1	1	SPEED LIMIT 35
0010	257+69	RT	R2-1	24	X	30	1	--	5.00	1	1	SPEED LIMIT 35
0010	264+32	RT	S3-1	36	X	36	1	--	9.00	1	1	SCHOOL BUS STOP AHEAD
0010	269+79	RT	R2-1	24	X	30	1	--	5.00	1	1	SPEED LIMIT 35
0010	273+65	RT			X		--	1	--	1	1	POY SIPPY UNINCORPORATED
0010	280+98	LT	R2-1	24	X	30	1	--	5.00	1	1	SPEED LIMIT 35
0010	281+39	RT	R2-1	24	X	30	1	--	5.00	1	1	SPEED LIMIT 35
0010	284+05	RT	J1-1	24	X	39	1	--	6.50	2	1	J-ASSEMBLY
0010			M2-1	21	X	15	--	--	--	--	--	JUNCTION
0010			M1-5-A	24	X	24	--	--	--	--	--	CTH SS
0010	287+67	LT	R2-1	24	X	30	1	--	5.00	1	1	SPEED LIMIT 35
0010	287+87	RT	J13-1	24	X	45	--	1	7.50	2	1	J-ASSEMBLY
0010			M1-5-A	24	X	24	--	--	--	--	--	CTH SS
0010			M6-1	21	X	21	--	--	--	--	--	RIGHT ARROW
0010	288+70	RT	R1-1	30	X	30	1	--	6.25	1	1	STOP
0010	288+72	RT	J13-1	24	X	45	--	1	7.50	2	1	J-ASSEMBLY
0010			M1-5-A	24	X	24	--	--	--	--	--	CTH H
0010			M6-4	21	X	21	--	--	--	--	--	DOUBLE ARROW
0010	288+73	LT	W1-7	48	X	24	1	--	8.00	1	--	TWO DIRECTION LARGE ARROW
0010	288+73	LT	J13-1	24	X	45	--	1	7.50	2	1	J-ASSEMBLY
0010			M1-5-A	24	X	24	--	--	--	--	--	CTH SS
0010			M6-1	21	X	21	--	--	--	--	--	LEFT ARROW
0010	290+27	RT	R2-1	24	X	30	1	--	5.00	1	1	SPEED LIMIT 35
0010	292+24	LT	R1-1	30	X	30	1	--	6.25	1	1	STOP
0010	293+02	RT	J1-1	24	X	39	1	--	6.50	2	1	J-ASSEMBLY
0010			M2-1	21	X	15	--	--	--	--	--	JUNCTION
0010			M1-6	24	X	24	--	--	--	--	--	STH 49
0010	293+05	LT	J1-1	24	X	39	1	--	6.50	2	1	J-ASSEMBLY
0010			M2-1	21	X	15	--	--	--	--	--	JUNCTION
0010			M1-5-A	24	X	24	--	--	--	--	--	CTH SS
0010	294+32	RT	W3-1	36	X	36	1	--	9.00	1	1	STOP AHEAD
0010	297+83	LT	R2-1	24	X	30	1	--	5.00	1	1	SPEED LIMIT 35
TOTAL 0010						36	4	140.75	106.86	43	33	

TRAFFIC CONTROL

643.0300 643.0900

CATEGORY	LOCATION	DURATION (DAYS)	TRAFFIC CONTROL DRUMS		TRAFFIC CONTROL SIGNS	
			EACH	DAY	EACH	DAY
0010	CTH E	50	-	-	1	50
0010	BEGINNING OF PROJECT	50	-	-	5	250
0010	BEECHNUT LANE ADVANCED WARNING	50	-	-	2	100
0010	BIRCH LANE ADVANCED WARNING	50	-	-	2	100
0010	30TH DRIVE ADVANCED WARNING	50	-	-	2	100
0010	CTH SS ADVANCED WARNING	50	-	-	2	100
0010	ROBERT ST ADVANCED WARNING	50	-	-	2	100
0010	CTH H/ STH 49 ADVANCED WARNING	50	-	-	7	350
0010	MOVING OPERATIONS	40	-	-	6	240
0010	NO CENTERLINE	11	-	-	4	44
0010	DO NOT PASS	11	-	-	4	44
0010	PASS WITH CARE	11	-	-	3	33
0010	UNDISTRIBUTED	4	10	40	-	-
TOTAL 0010			40		1,911	

LOCATE NO-PASSING ZONES

CATEGORY	LOCATION	648.0100
		LOCATING NO-PASSING ZONES MI
0010	Project 6910-01-71	1.89
TOTAL 0010		1.89

PAVEMENT MARKING

646.1005 646.4505
MARKING LINE MARKING LINE
PAINT 4-INCH SAME DAY PAINT
4-INCH

CATEGORY	STATION	TO	STATION	LOCATION	646.1005	646.4505	REMARKS
					MARKING LINE PAINT 4-INCH LF	MARKING LINE SAME DAY PAINT 4-INCH LF	
0010	198+00	-	202+00	EB	---	100	SKIPS YELLOW
0010	198+00	-	200+90	WB	---	290	SOLID YELLOW
0010	202+00	-	210+75	EB	---	875	SOLID YELLOW
0010	202+00	-	210+75	WB	---	220	SKIPS YELLOW
0010	210+75	-	232+80	EB	---	4410	DOUBLE YELLOW
0010	198+00	-	230+90	RT	3290	---	EDGELINE WHITE
0010	230+90	-	231+36	RT	12	---	3' LINE, 9' GAP WHITE
0010	231+36	-	231+89	RT	53	---	EDGELINE WHITE
0010	231+89	-	232+85	RT	25	---	3' LINE, 9' GAP WHITE
0010	232+85	-	246+30	RT	1345	---	EDGELINE WHITE
0010	198+00	-	239+50	LT	4150	---	EDGELINE WHITE
0010	232+80	-	237+00	EB	---	105	SKIPS YELLOW
0010	232+80	-	237+00	WB	---	420	SOLID YELLOW
0010	240+00	-	240+25	LT	25	---	EDGELINE WHITE
0010	240+75	-	292+20	LT	5145	---	EDGELINE WHITE
0010	237+00	-	242+50	EB	---	138	SKIPS YELLOW
0010	242+50	-	248+20	EB	---	570	SOLID YELLOW
0010	242+50	-	248+20	WB	---	143	SKIPS YELLOW
0010	246+30	-	247+48	RT	30	---	3' LINE, 9' GAP WHITE
0010	247+48	-	288+10	RT	4062	---	EDGELINE WHITE
0010	248+20	-	299+41	EB	---	10,242	DOUBLE YELLOW
0010	289+18	-	299+41	RT	1,025	---	EDGELINE WHITE
0010	292+87	-	299+41	LT	655	---	EDGELINE WHITE
TOTAL 0010					19,817	17,513	

CONSTRUCTION STAKING

CATEGORY	STATION	TO	STATION	LOCATION	650.4500	650.5000	650.8000	650.9920	650.9910.01
					CONSTRUCTION STAKING SUBGRADE LF	CONSTRUCTION STAKING BASE LF	CONSTRUCTION STAKING RESURFACING REFERENCE LF	CONSTRUCTION STAKING SLOPE STAKES LF	CONSTRUCTION SUPPLEMENTAL CONTROL (PROJECT) (01. 6910-01-71) LS
0010	199+75	-	299+41	-	-	-	9,966	-	-
0010	281+00	-	284+00	-	300	300	-	300	-
0010		-		PROJECT 6910-01-71	-	-	-	-	1
TOTAL 0010					300	300	9,966	300	1

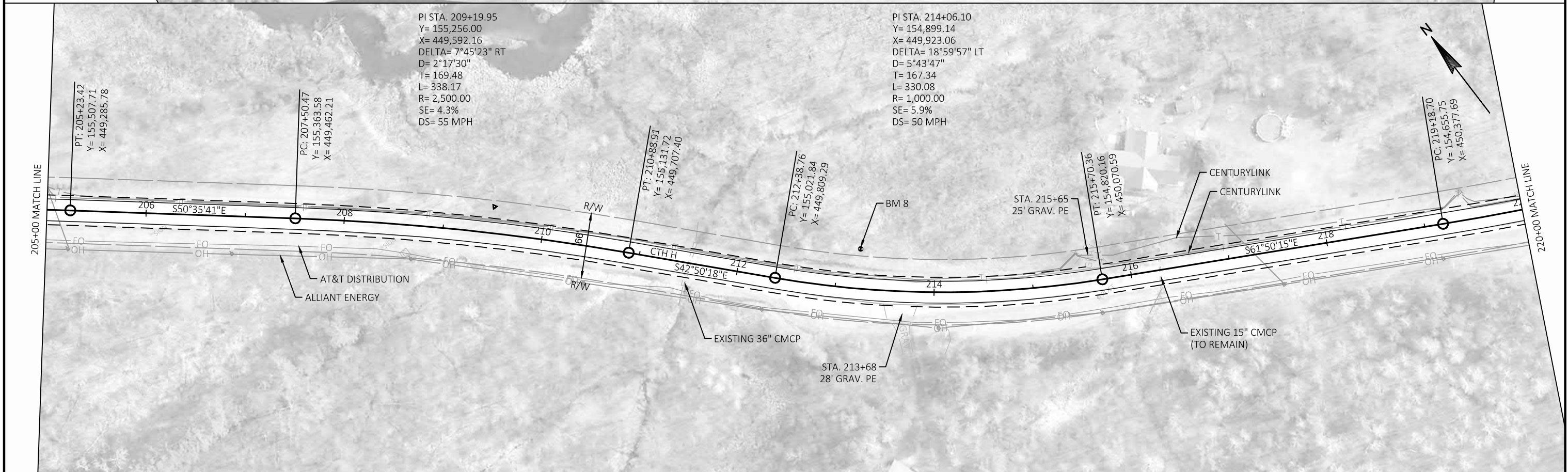
SAWING

690.0150
SAWING
ASPHALT
LF

CATEGORY	STATION	LOCATION	LF
0010	198+00	CTH H	22
0010	203+73	DRIVEWAY LT	20
0010	204+44	DRIVEWAY LT	15
0010	221+01	DRIVEWAY RT	11
0010	222+84	DRIVEWAY LT	22
0010	224+56	DRIVEWAY LT	18
0010	231+16	BEECHNUT LANE RT	26
0010	232+30	BEECHNUT LANE RT	41
0010	239+80	BIRCH LANE LT	20
0010	240+39	BIRCH LANE LT	27
0010	246+86	30TH DR RT	64
0010	249+58	DRIVEWAY LT	25
0010	249+86	DRIVEWAY RT	27
0010	253+18	DRIVEWAY LT	13
0010	255+63	DRIVEWAY RT	16
0010	263+38	DRIVEWAY RT	14
0010	264+57	DRIVEWAY LT	15
0010	266+44	DRIVEWAY LT	29
0010	268+40	DRIVEWAY LT	18
0010	272+45	DRIVEWAY LT	13
0010	276+14	DRIVEWAY LT	24
0010	277+25	DRIVEWAY RT	23
0010	278+69	DRIVEWAY RT	24
0010	279+59	DRIVEWAY LT	14
0010	279+86	DRIVEWAY RT	34
0010	283+81	DRIVEWAY LT	19
0010	285+12	DRIVEWAY LT	19
0010	286+43	DRIVEWAY LT	15
0010	286+70	DRIVEWAY LT	27
0010	286+92	DRIVEWAY RT	14
0010	288+60	CTH SS RT	44
0010	292+50	ROBERT ST LT	24
0010	293+90	DRIVEWAY RT	28
0010	295+35	DRIVEWAY LT	15
0010	295+98	DRIVEWAY LT	18
0010	298+50	DRIVEWAY RT	185
0010	299+41	CTH H	31
	TOTAL 0010		1,014

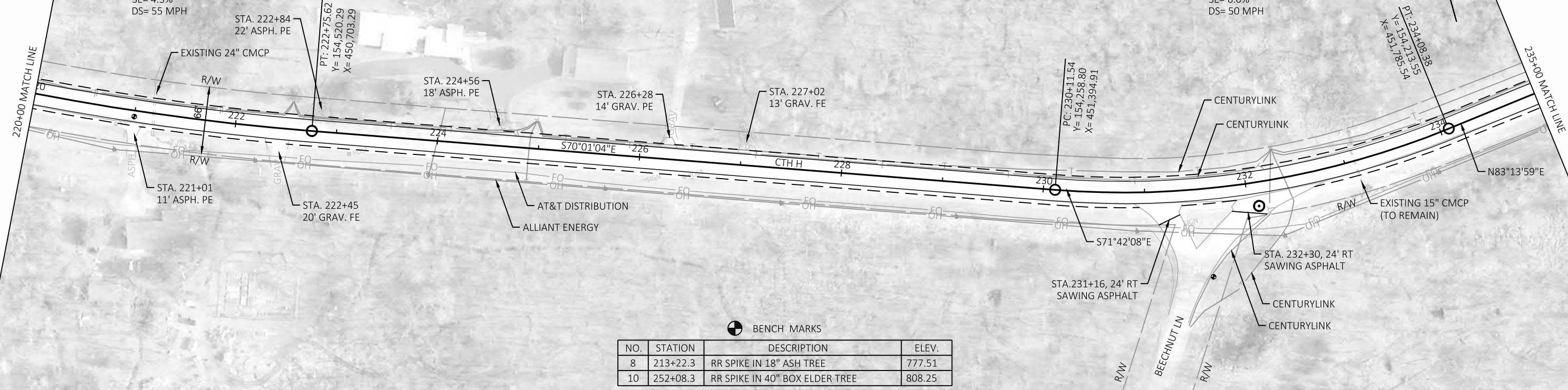
3

3



PI STA. 220+97.46
 Y= 154,571.38
 X= 450,535.29
 DELTA= 8°10'48" LT
 D= 2°17'31"
 T= 178.77
 L= 356.62
 R= 2,500.00
 SE= 4.3%
 DS= 55 MPH

PI STA. 232+13.65
 Y= 154,189.74
 X= 451,584.85
 DELTA= 26°44'57" LT
 D= 6°44'26"
 T= 202.10
 L= 396.83
 R= 850.00
 SE= 6.0%
 DS= 50 MPH



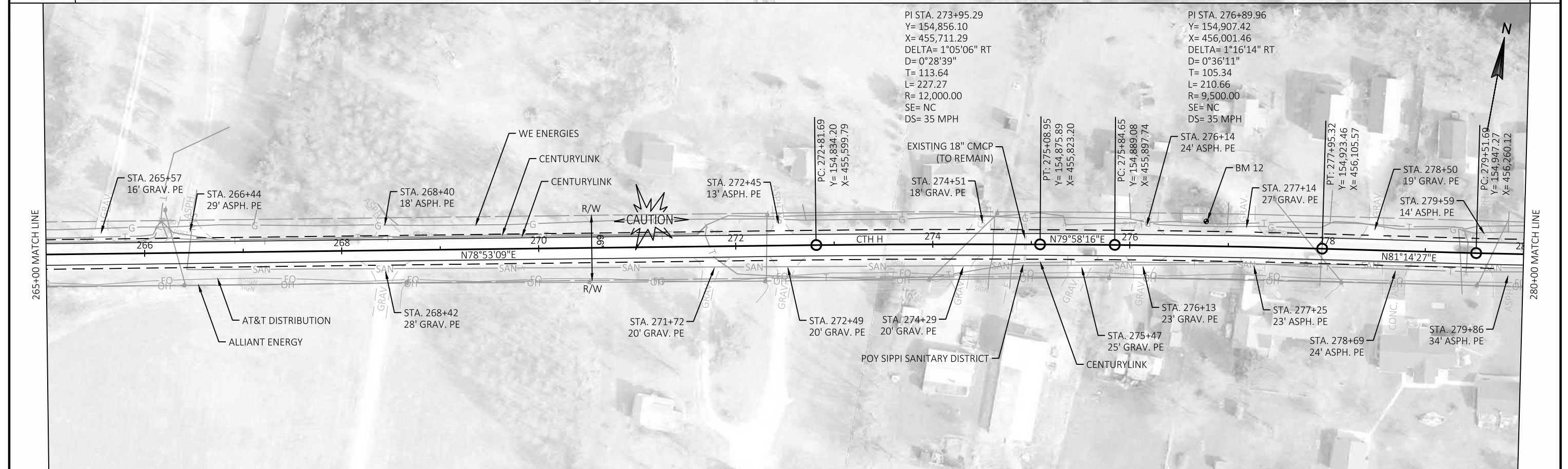
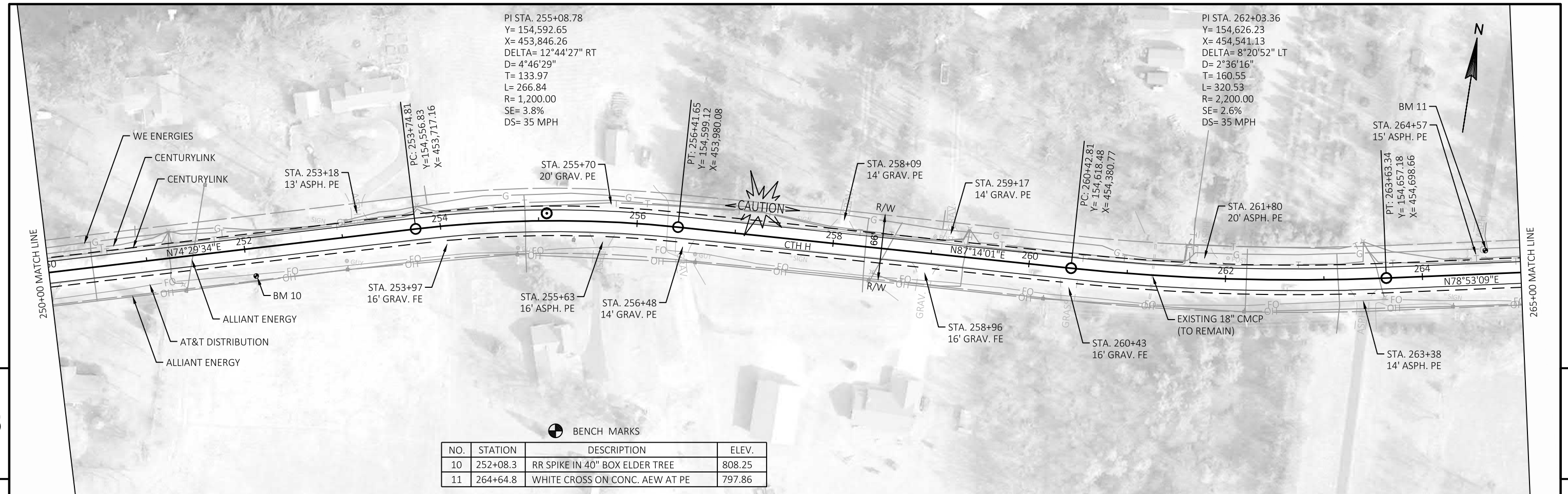
⊕ BENCH MARKS

NO.	STATION	DESCRIPTION	ELEV.
8	213+22.3	RR SPIKE IN 18" ASH TREE	777.51
10	252+08.3	RR SPIKE IN 40" BOX ELDER TREE	808.25

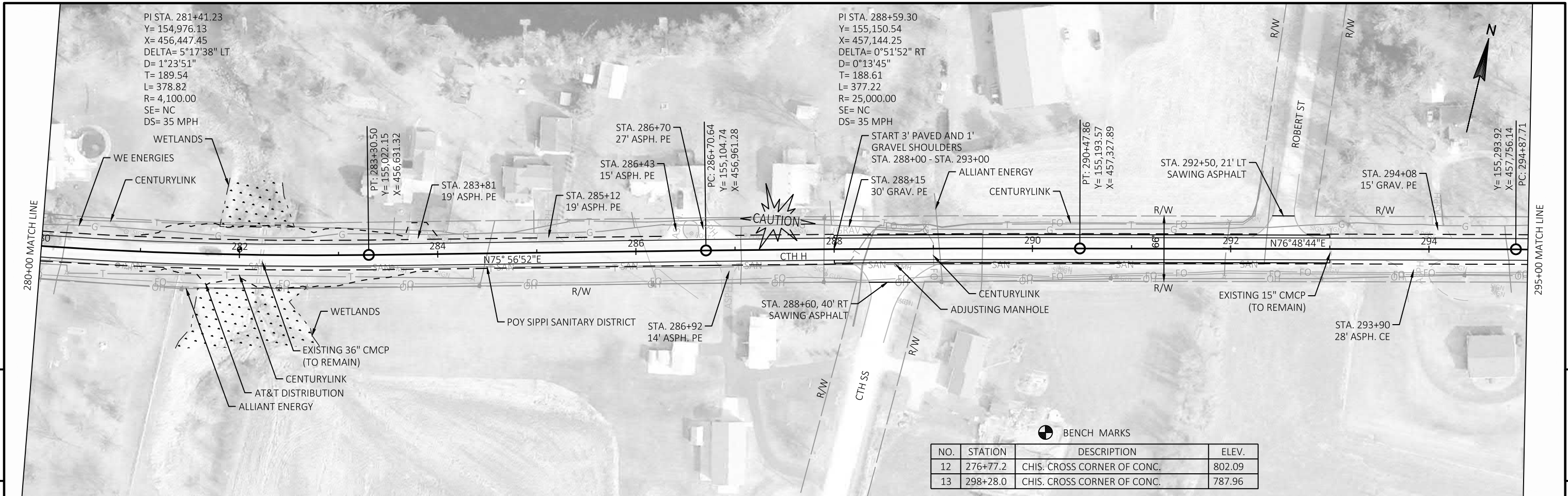
PI STA. 243+82.96
 Y= 154,328.30
 X= 452,753.34
 DELTA= 1°16'24" LT
 D= 1°23'51"
 T= 45.56
 L= 91.12
 R= 4,100.00
 SE= NC
 DS= 35 MPH

PI STA. 246+71.96
 Y= 154,368.82
 X= 453,039.34
 DELTA= 7°28'01" LT
 D= 2°32'47"
 T= 146.82
 L= 293.02
 R= 2,250.00
 SE= 2.5%
 DS= 35 MPH





PROJECT NO: 6910-01-71 HWY: CTH H COUNTY: WAUSHARA PLAN SHEET E



NO.	STATION	DESCRIPTION	ELEV.
12	276+77.2	CHIS. CROSS CORNER OF CONC.	802.09
13	298+28.0	CHIS. CROSS CORNER OF CONC.	787.96

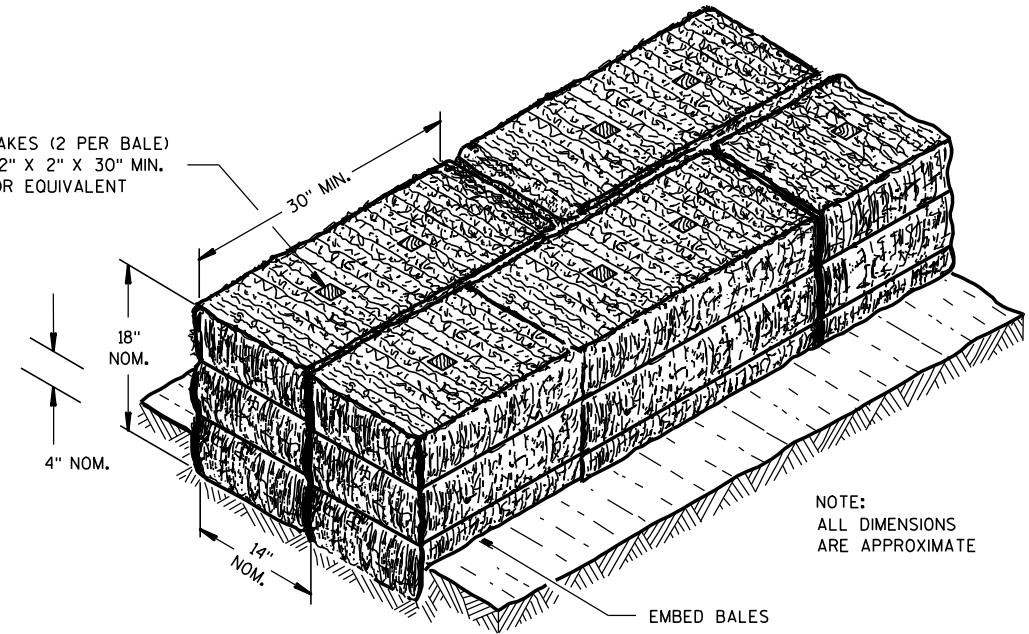


PROJECT NO: 6910-01-71	HWY: CTH H	COUNTY: WAUSHARA	PLAN	SHEET	E
------------------------	------------	------------------	------	-------	---

Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
13C19-02	HMA LONGITUDINAL JOINTS
14B29-01	SAFETY EDGE
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-06A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C35-04A	PAVEMENT MARKING (INTERSECTIONS)
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D29-06	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

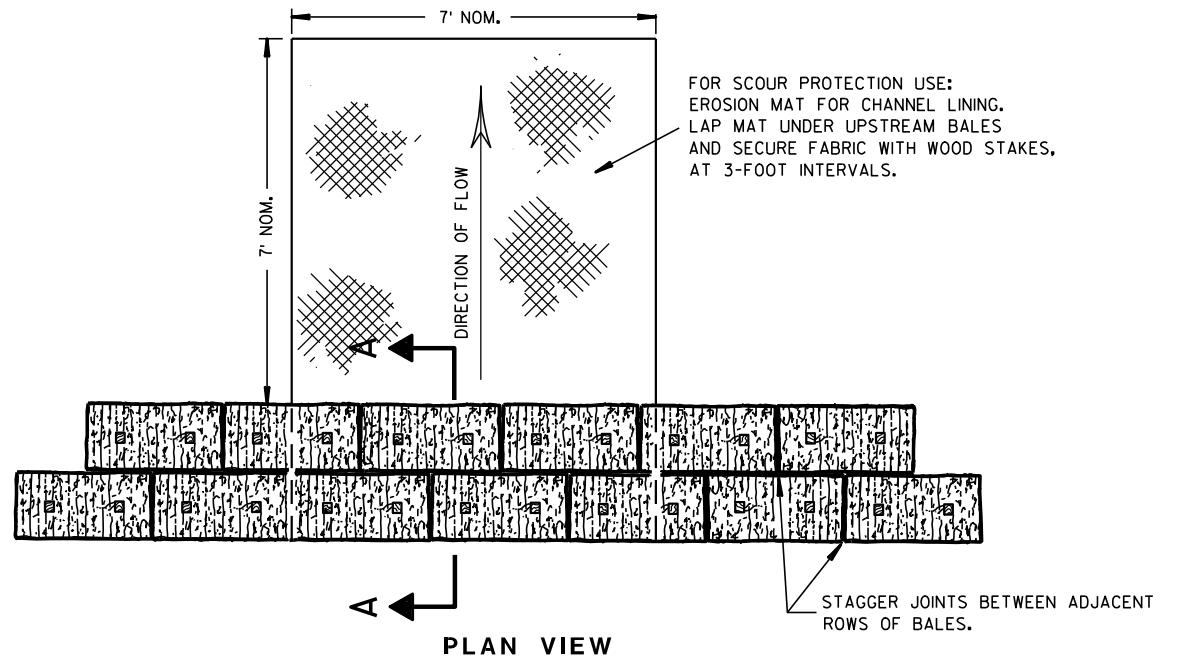
WOOD STAKES (2 PER BALE)
NOMINAL 2" X 2" X 30" MIN.
LENGTH OR EQUIVALENT



NOTE:
ALL DIMENSIONS
ARE APPROXIMATE

EMBED BALES

SECTION A-A

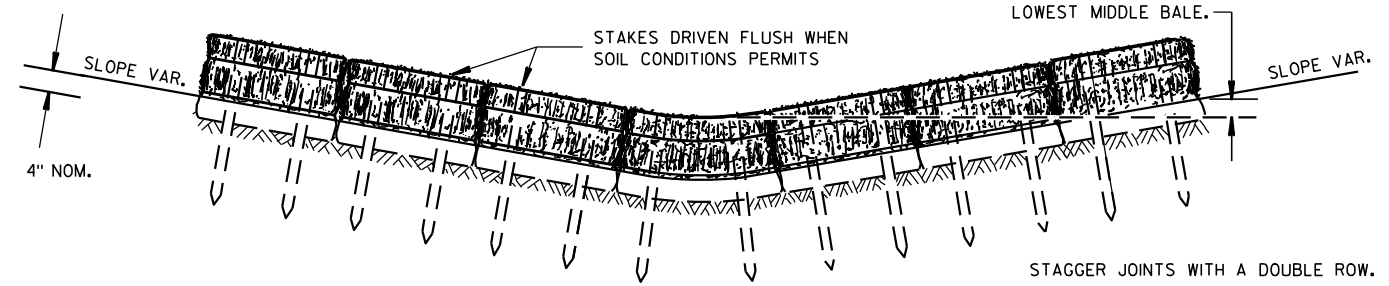


FOR SCOUR PROTECTION USE:
EROSION MAT FOR CHANNEL LINING.
LAP MAT UNDER UPSTREAM BALES
AND SECURE FABRIC WITH WOOD STAKES,
AT 3-FOOT INTERVALS.

STAGGER JOINTS BETWEEN ADJACENT
ROWS OF BALES.

PLAN VIEW

BOTTOM ELEVATION OF END BALE SHALL
BE EQUAL TO OR GREATER THAN TOP OF
LOWEST MIDDLE BALE.



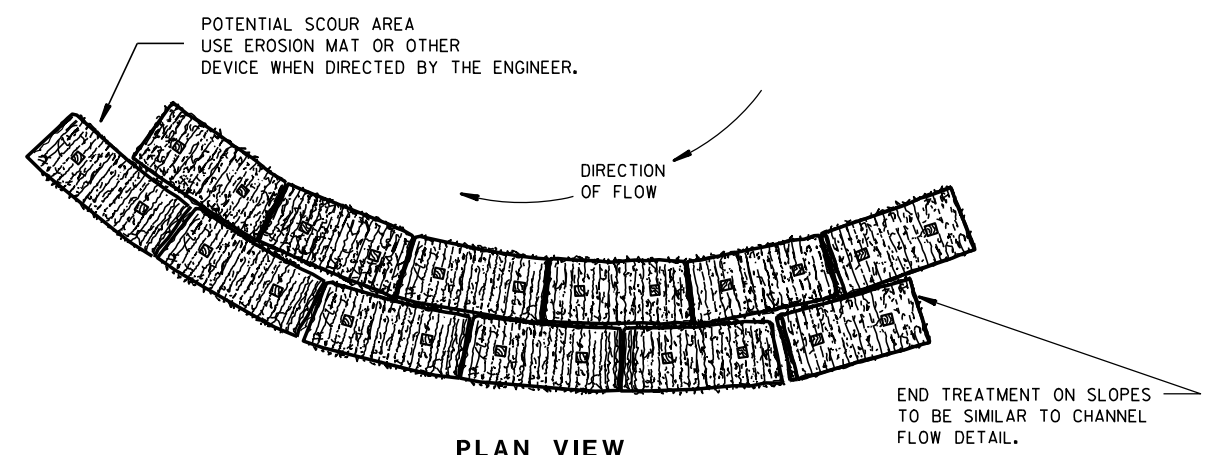
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

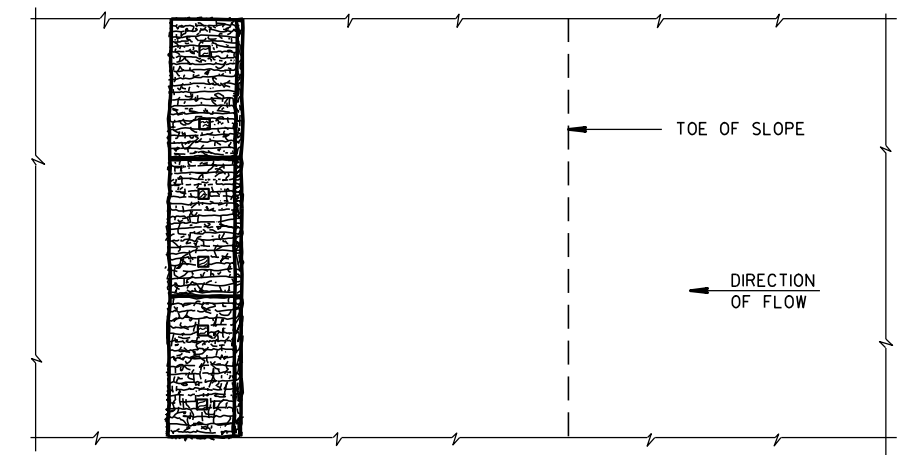
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

- ① TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

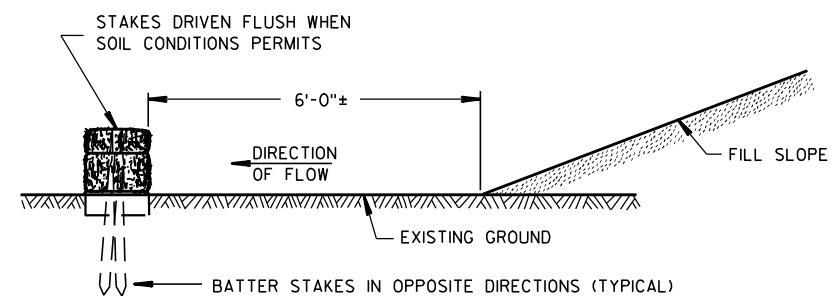


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

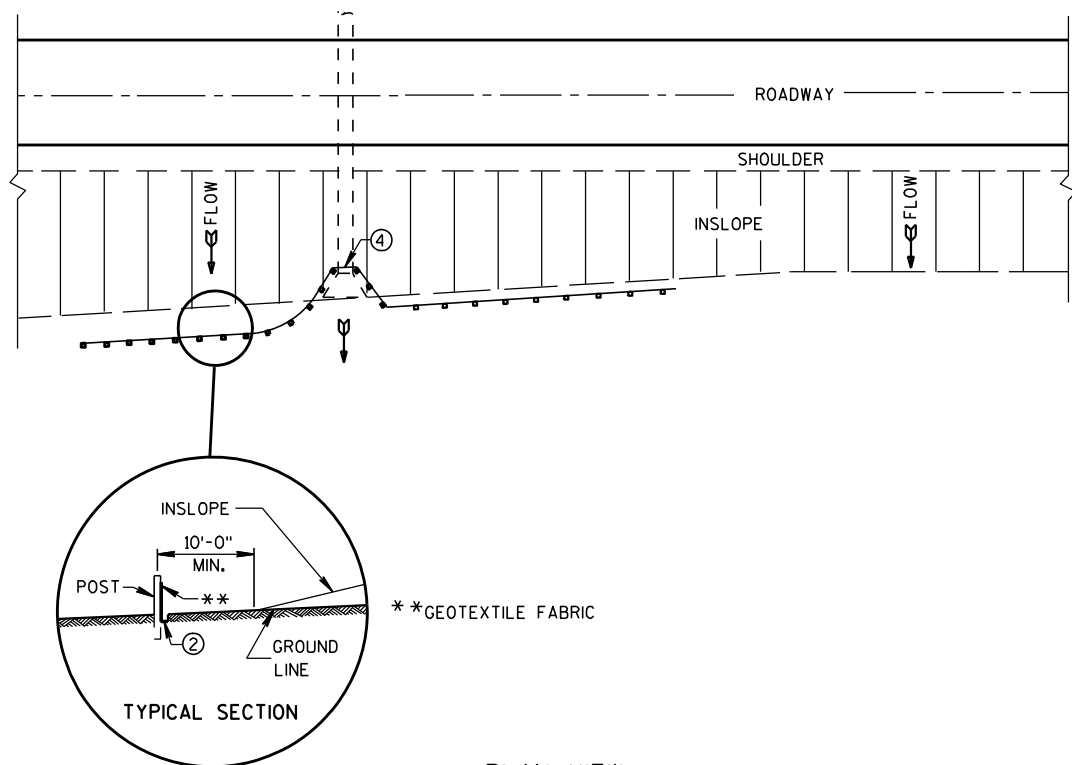
WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

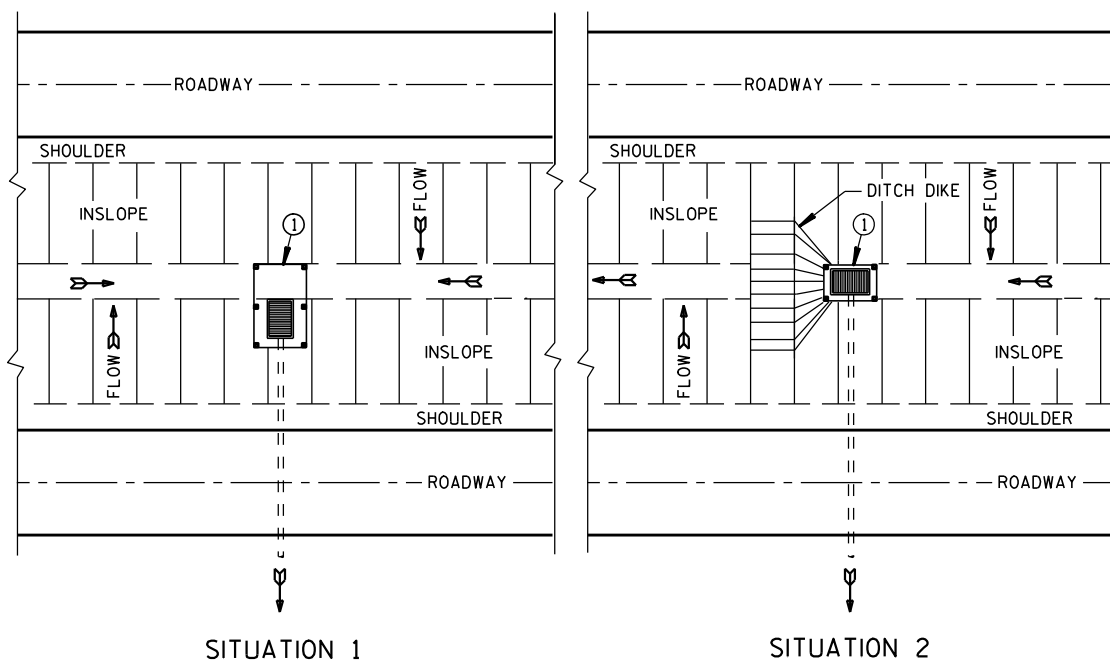
TYPICAL INSTALLATIONS OF
EROSION BALES / TEMPORARY
DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
 6/04/02 /S/ Beth Canestra
 DATE CHIEF ROADWAY DEVELOPMENT ENGINEER
 FHWA



PLAN VIEW
TYPICAL APPLICATION OF SILT FENCE

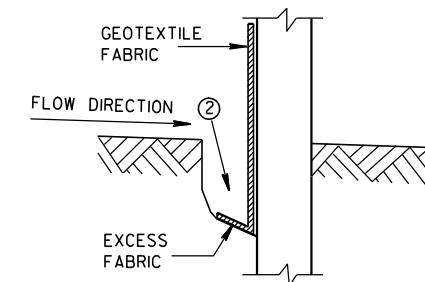


SITUATION 1 SITUATION 2
PLAN VIEW
SILT FENCE AT MEDIAN SURFACE DRAINS

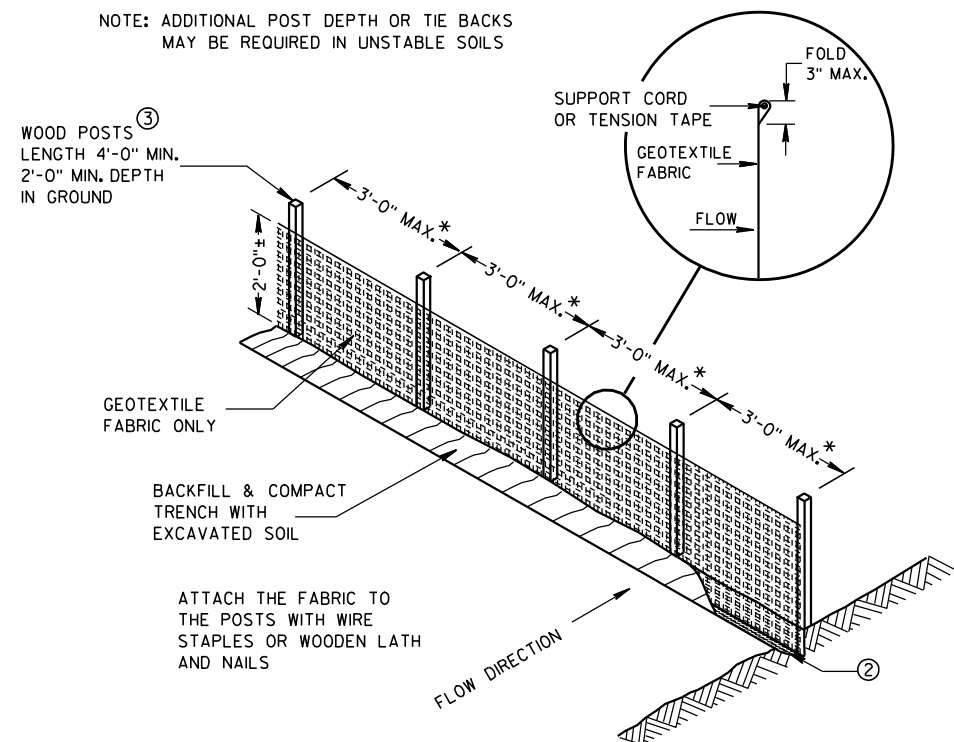
GENERAL NOTES

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

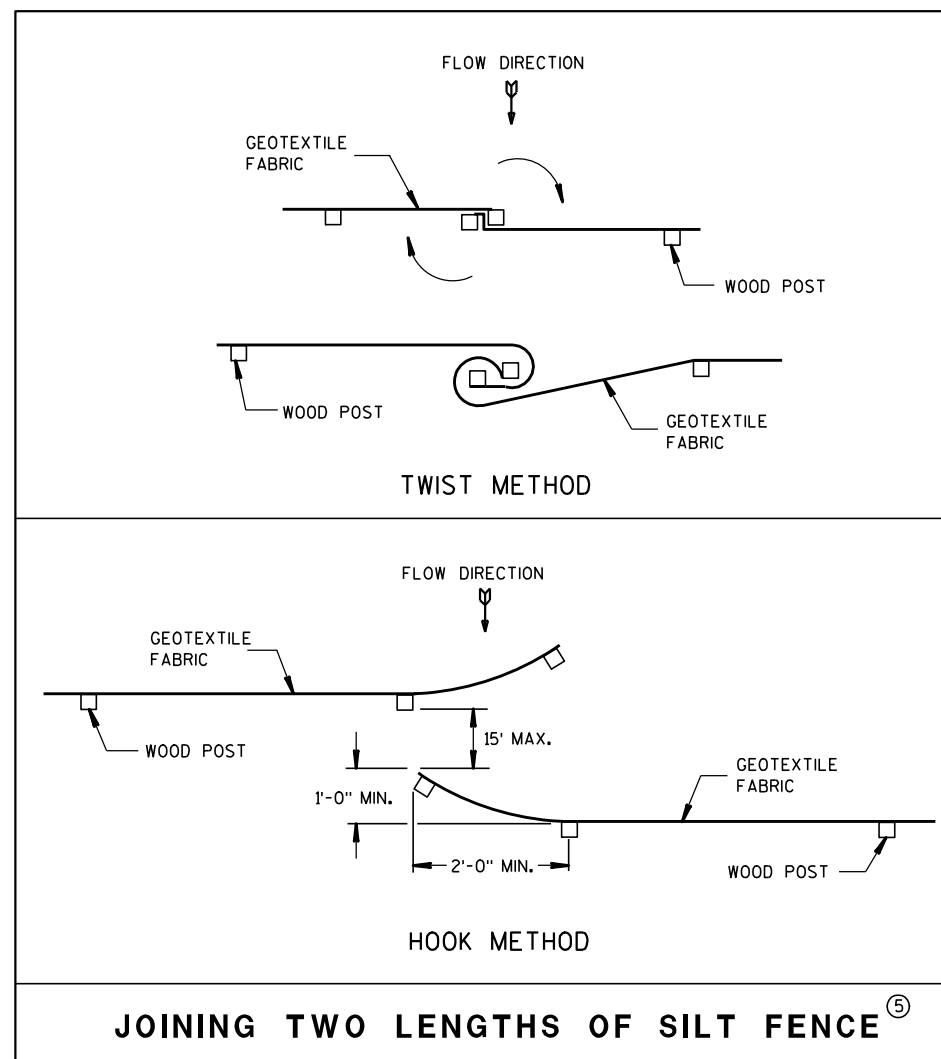
- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" 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.



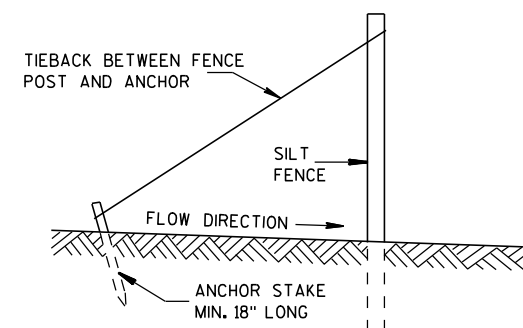
TRENCH DETAIL



SILT FENCE



JOINING TWO LENGTHS OF SILT FENCE ⑤

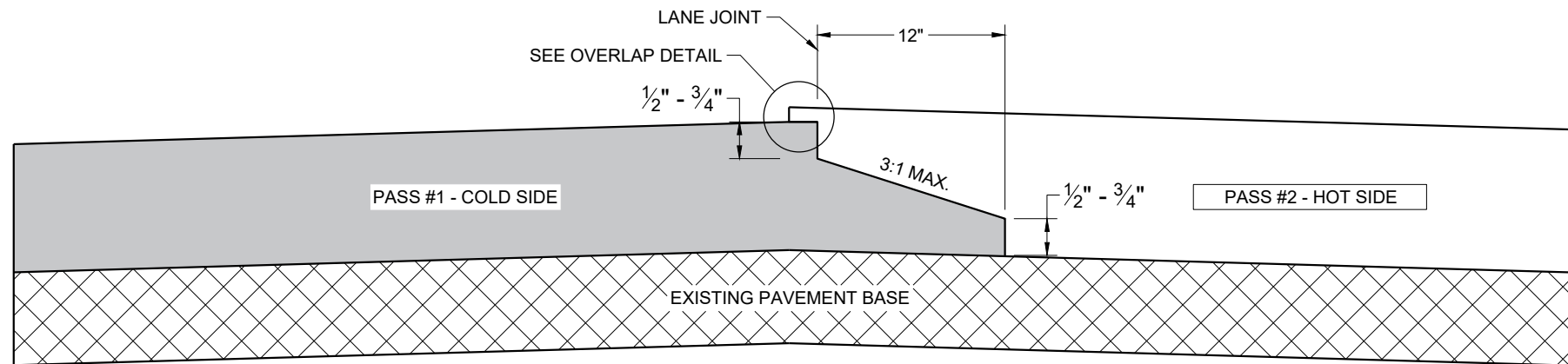


SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

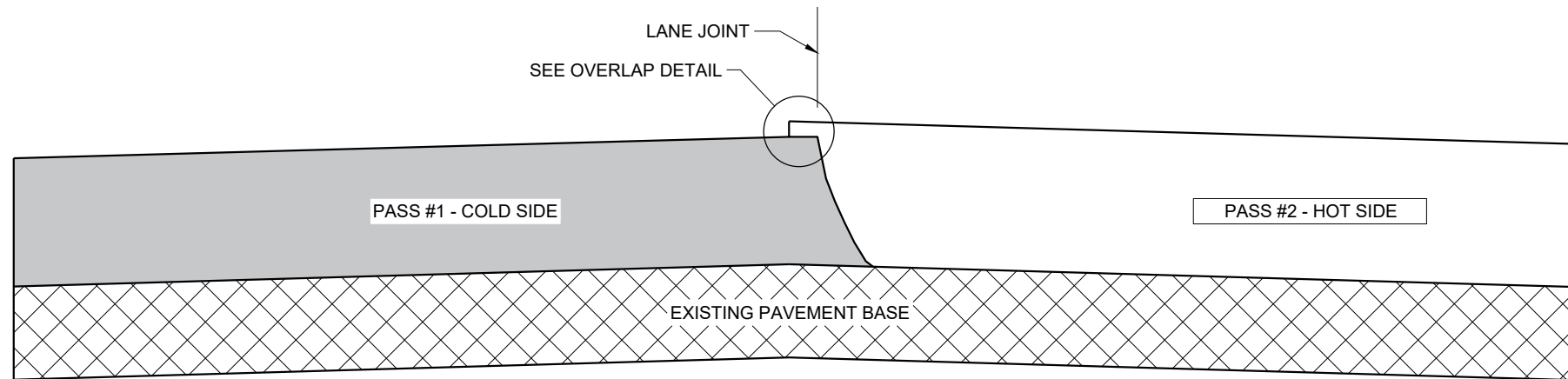
SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

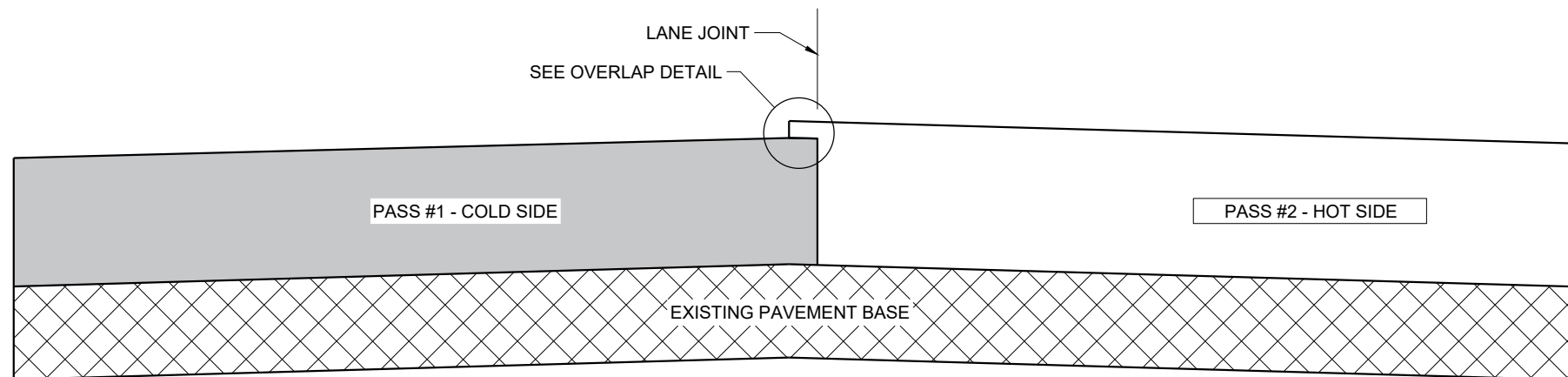
APPROVED
4-29-05 /S/ Beth Cannestra
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA



TYPICAL PAVEMENT CROSS SECTION OF NOTCHED WEDGE LONGITUDINAL JOINT



TYPICAL PAVEMENT CROSS SECTION VERTICAL LONGITUDINAL JOINT



TYPICAL PAVEMENT CROSS SECTION OF MILLED LONGITUDINAL JOINT

GENERAL NOTES

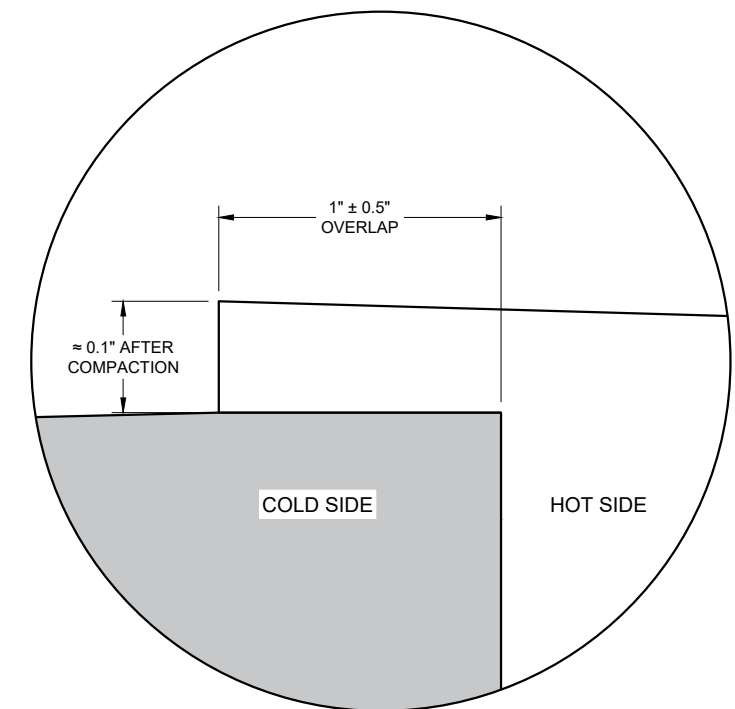
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION.

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

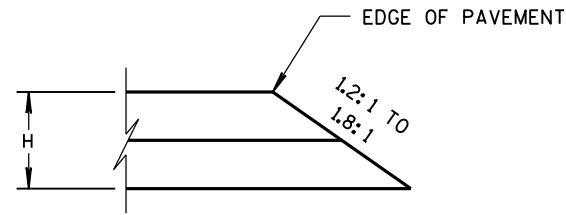
6

6

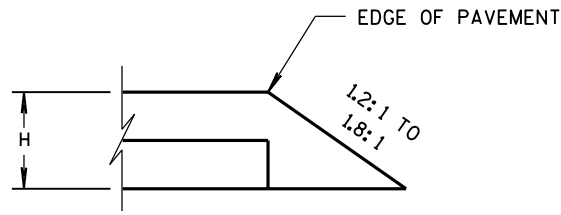
SDD 13C19 - 02

SDD 13C19 - 02

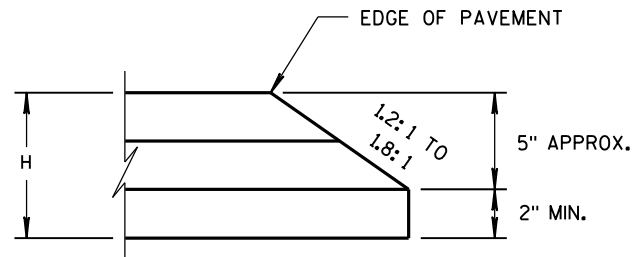
HMA LONGITUDINAL JOINTS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED February 2020 DATE	/S/ Steven Hefel HMA PAVEMENT ENGINEER
<small>FHWA</small>	



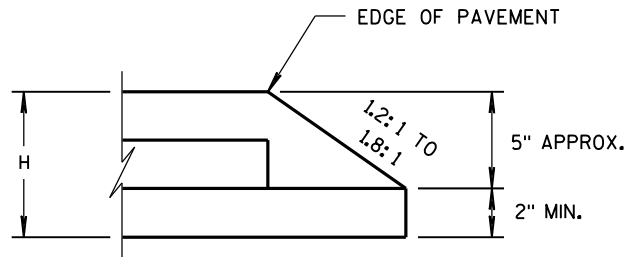
CONSTRUCTED WITH FINAL TWO LAYERS
FOR H 5" OR LESS



CONSTRUCTED WITH FINAL LAYER
FOR H 5" OR LESS

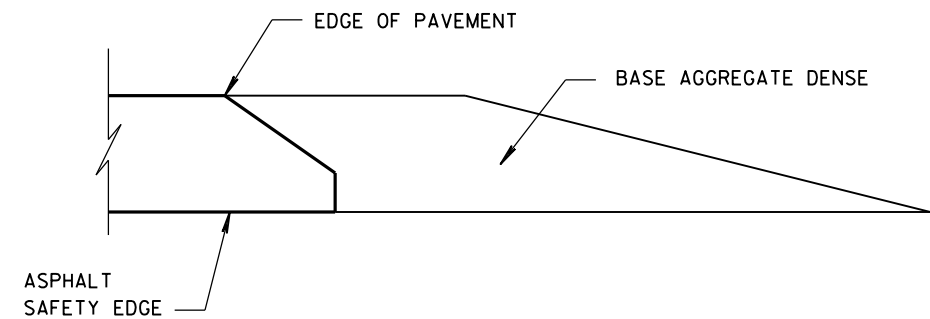


CONSTRUCTED WITH FINAL TWO LAYERS
FOR H GREATER THAN 5"



CONSTRUCTED WITH FINAL LAYER
FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

6

6

S.D.D. 14 B 29-1

S.D.D. 14 B 29-1

SAFETY EDGE _{SM}	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED DATE 11/30/2012	/s/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA	

GENERAL NOTES

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" X 48" UNLESS OTHERWISE NOTED.

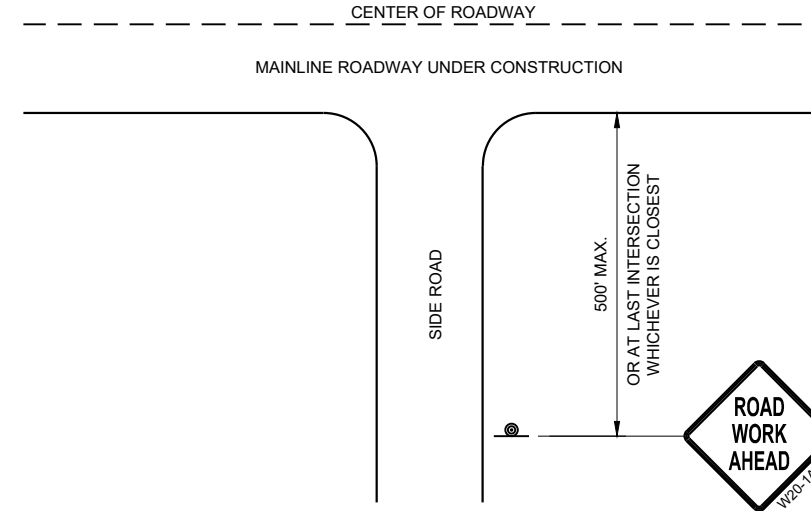
SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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 REESTABLISHED.

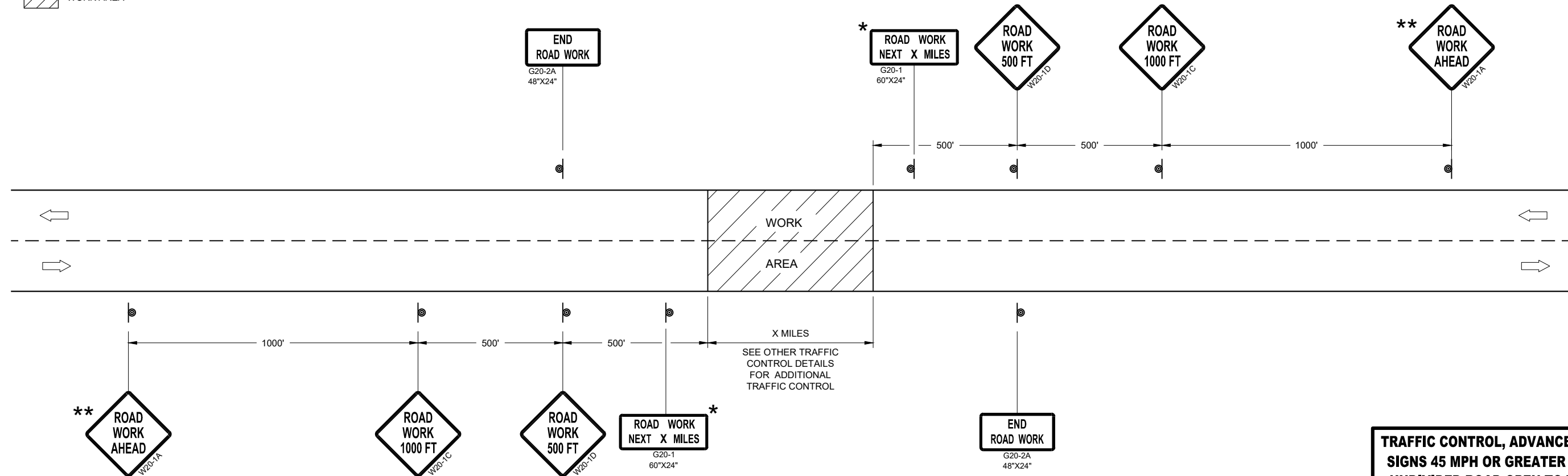
- * OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS
- ** PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  WORK AREA



TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL



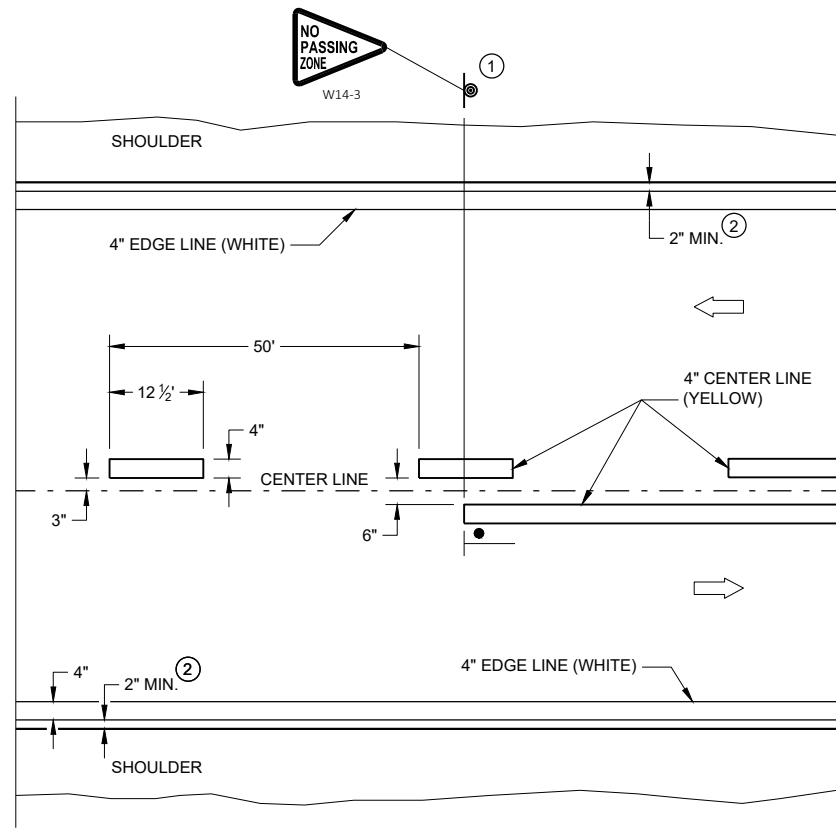
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFICE

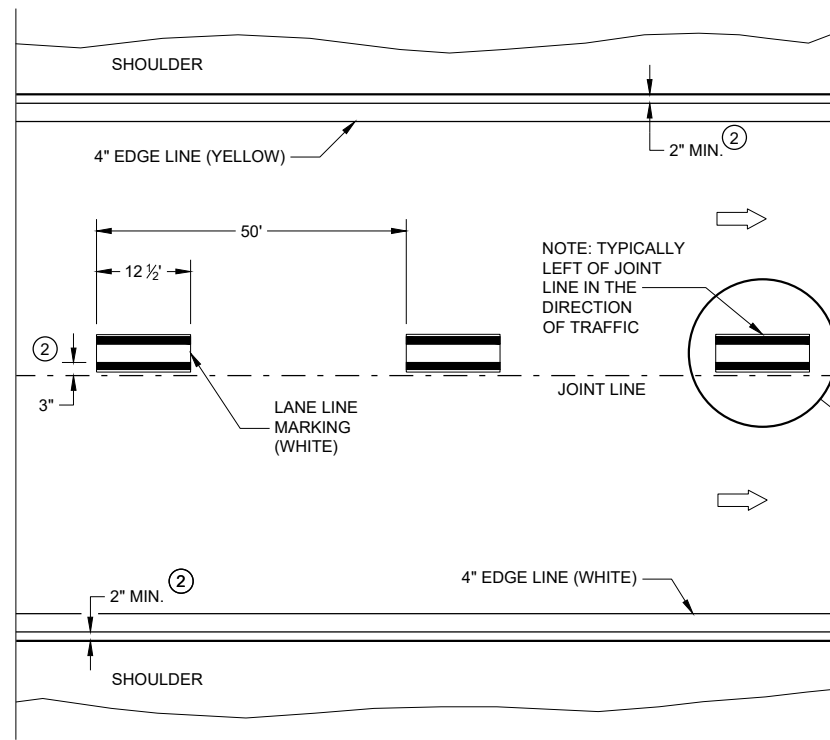
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE July 2018 /S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

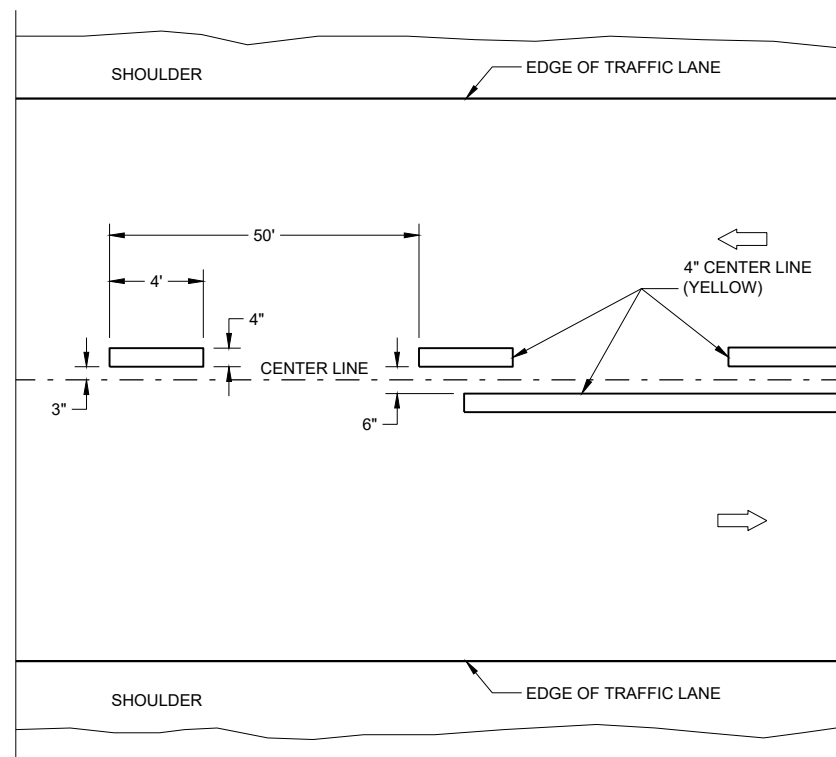


TWO WAY TRAFFIC

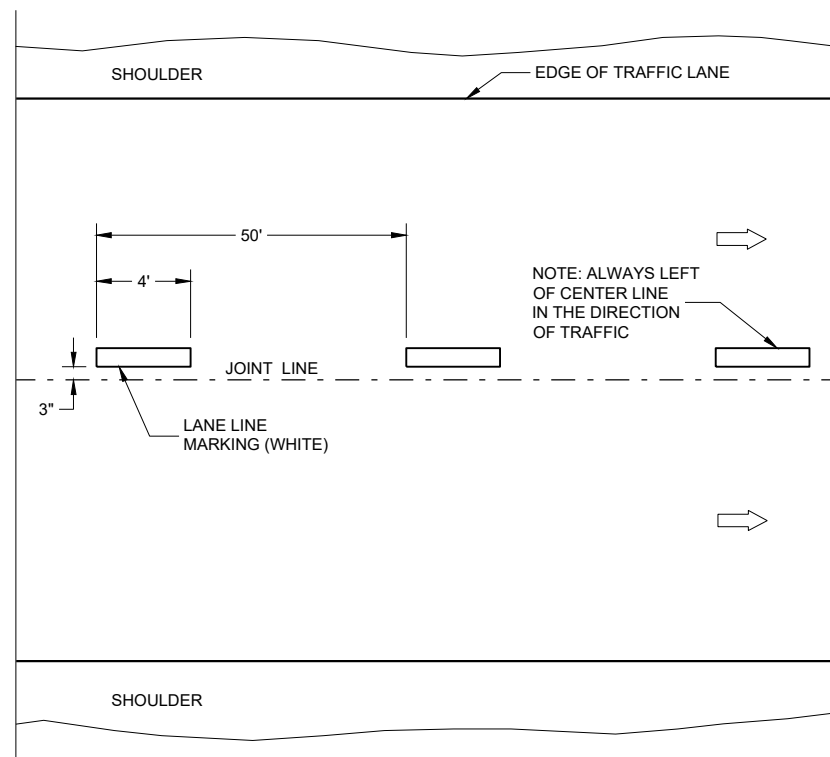


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

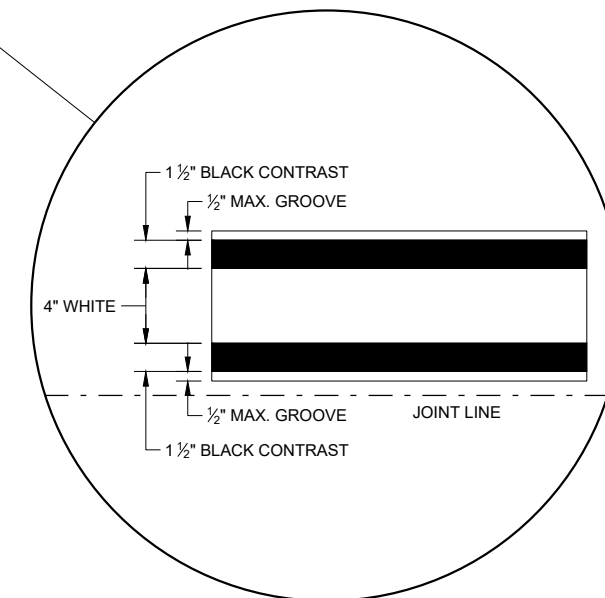
GENERAL NOTES

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

- ① LOCATE THE NO PASSING ZONE W14-3 SIGN WITH 50 FEET OF THE "T" MARKING
- ② MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

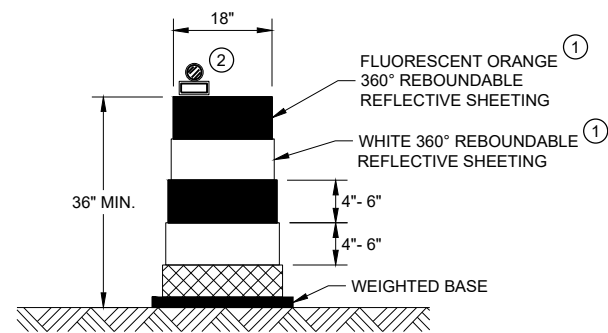
- "T" MARKING
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC



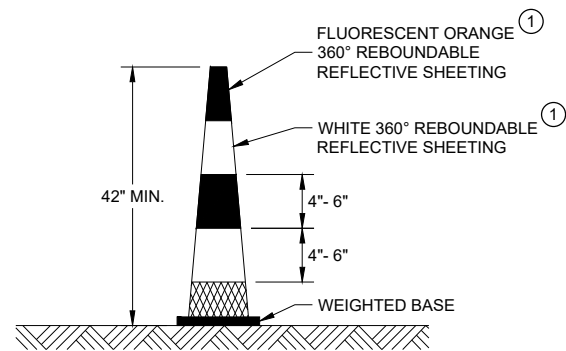
**LONGITUDINAL MARKING
(MAINLINE)**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 /S/ Matthew Rauch
DATE STATEWIDE SIGNING AND MARKING
ENGINEER

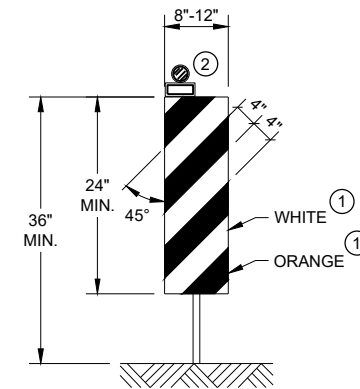


DRUM



42" CONE

DO NOT USE IN TAPERS
 1/2 SPACING OF DRUMS

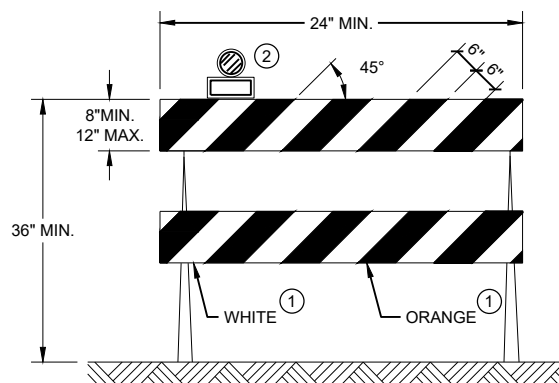


VERTICAL PANEL

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

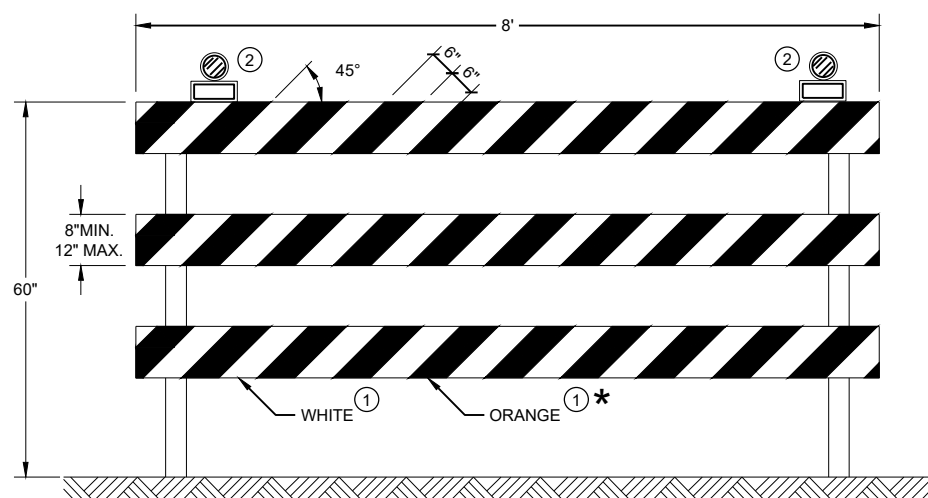
GENERAL NOTES

- 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.



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 June 2017 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
<small>FHWA</small>	

LEGEND

-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TEMPORARY PORTABLE RUMBLE STRIP ARRAY
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

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

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

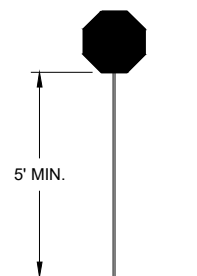
WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGING

- FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.
- ① FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
 - ② SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.
- WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

- UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.
- ③ EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.
- ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST.
- INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.
- PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.
- DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.



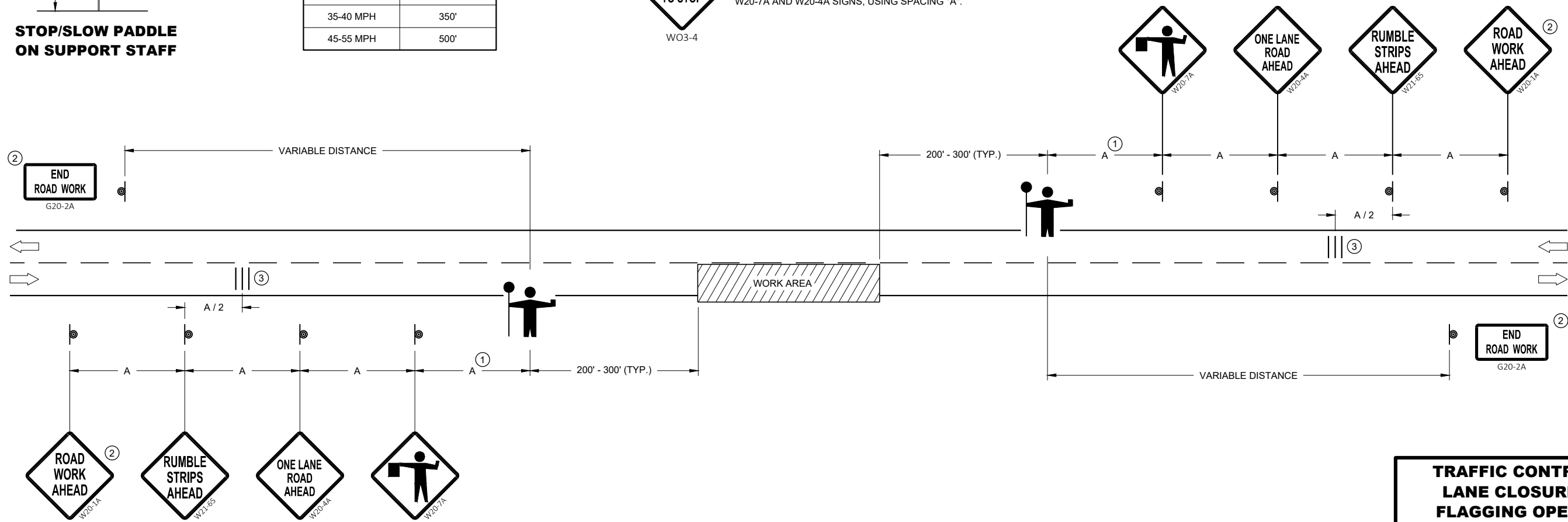
STOP/SLOW PADDLE ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



USE OF W03-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION





TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA

LEGEND

- V1 LEAD VEHICLE
- V2 MARKING VEHICLE
- V3 SHADOW VEHICLE
-  TRUCK MOUNTED ATTENUATOR (TMA)
-  SIGN ON TEMPORARY SUPPORT
-  DIRECTION OF TRAFFIC
-  FLASHING ARROW PANEL (CAUTION)

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

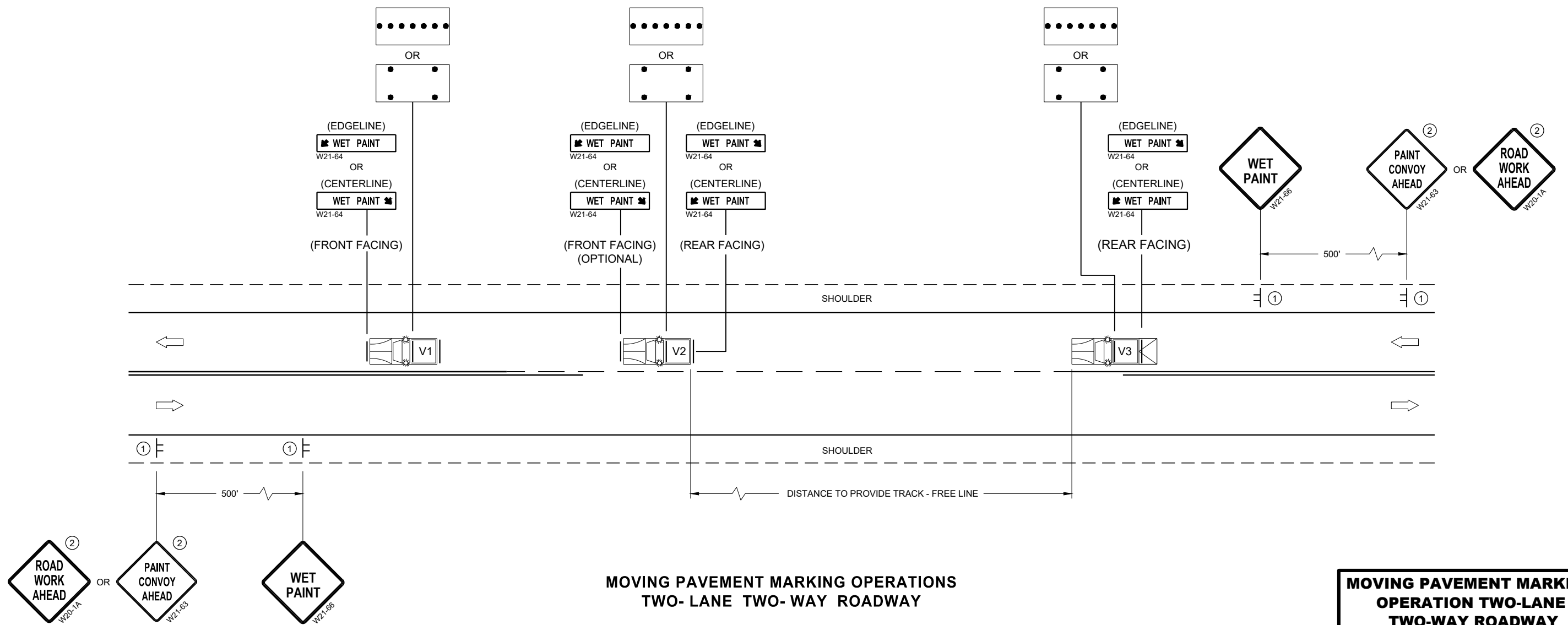
CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM OF 18" FOR WET PAVEMENT MARKING.

- ① SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.
- ② IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.

6

6



**MOVING PAVEMENT MARKING OPERATIONS
TWO-LANE TWO-WAY ROADWAY**

SDD 15C19 - 06a

SDD 15C19 - 06a

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2019 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	

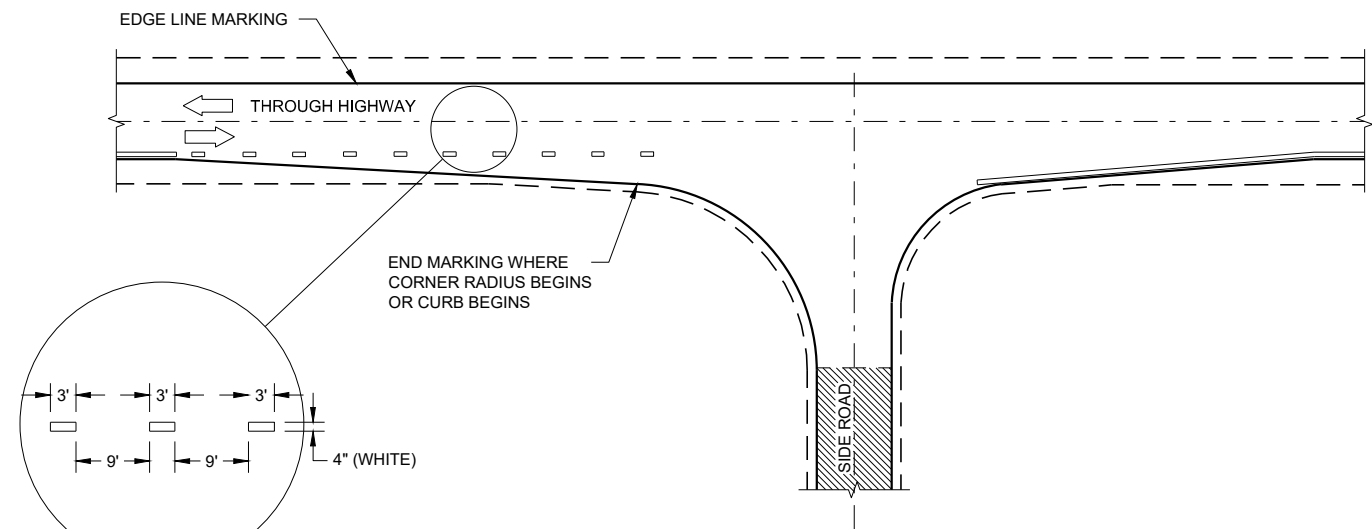
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

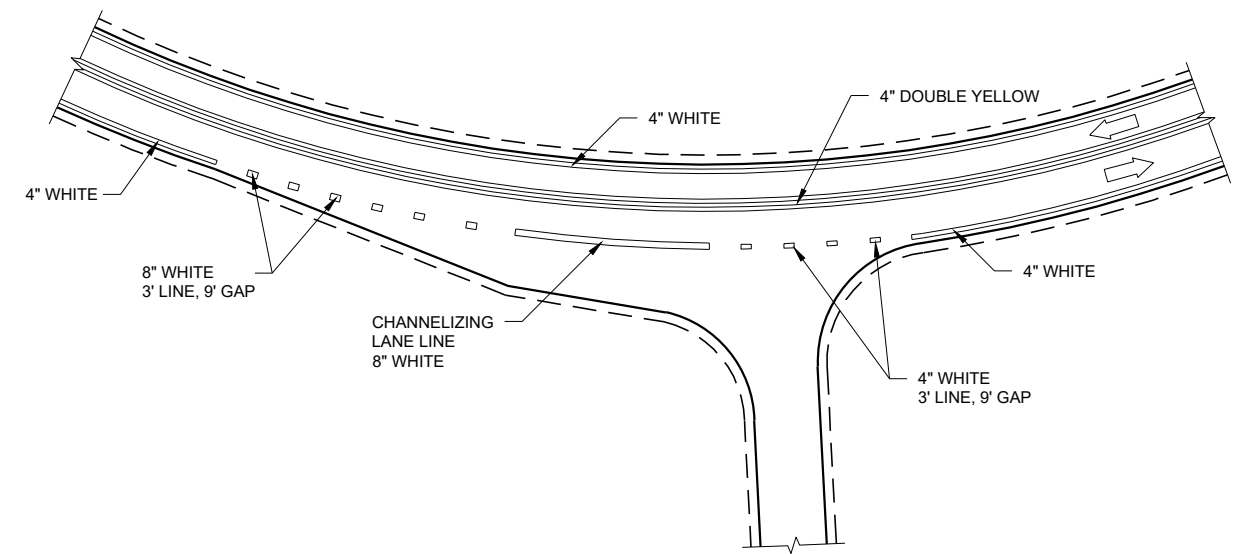
- ① WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
- ② WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
- ③ BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
- ④ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

LEGEND

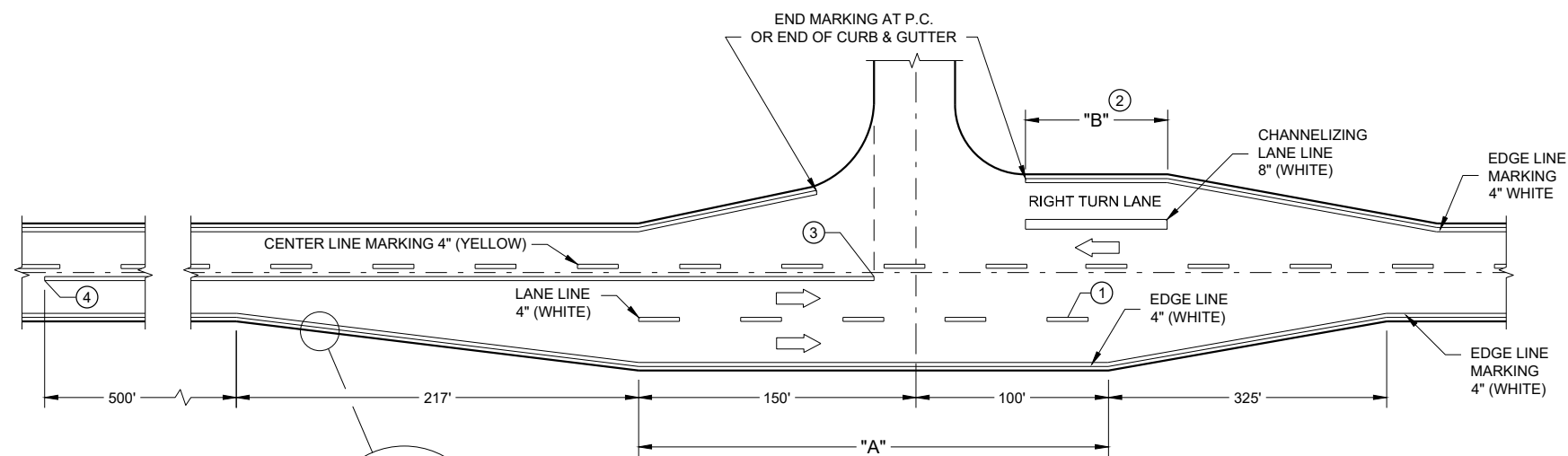
➡ DIRECTION OF TRAVEL



MINOR INTERSECTION



INTERSECTION ON OUTSIDE OF CURVE







**MAJOR INTERSECTIONS
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)**

**PAVEMENT MARKING
(INTERSECTIONS)**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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.

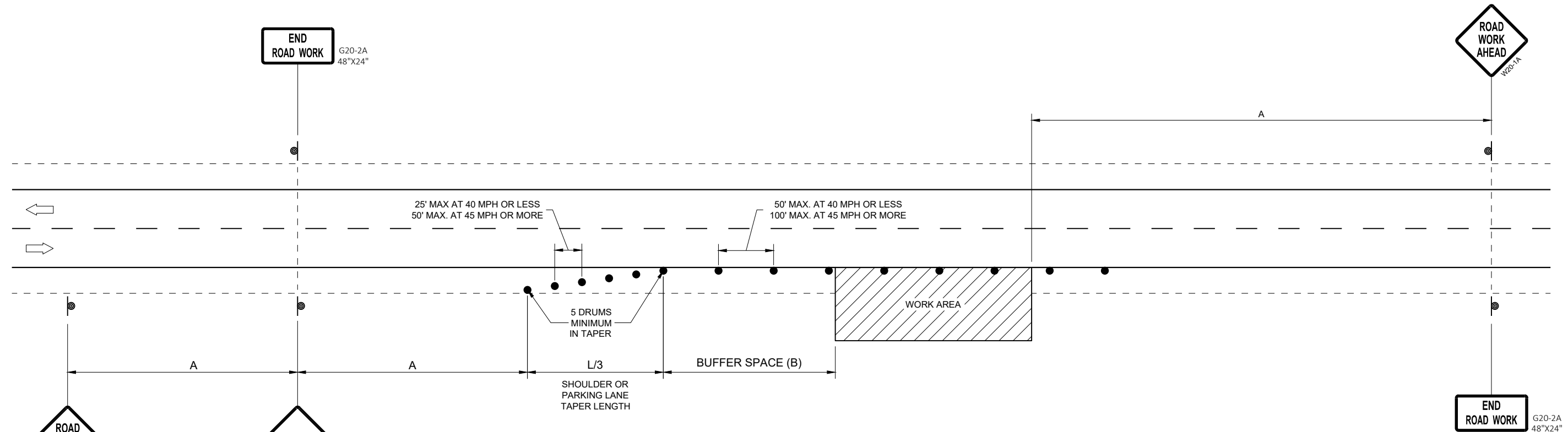
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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.

6

6



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'

OR
IF TRAFFIC CONTROL DEVICES
ENCROACH ONTO TRAVELED WAY, USE



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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION








APPROVED
May 2020 /S/ Andrew Heidtke
DATE STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

FHWA

SDD 15D28 - 04

SDD 15D28 - 04

LEGEND

-  SIGN ON TEMPORARY SUPPORT
-  SIGN ON PERMANENT SUPPORT
-  TYPE III BARRICADE
-  TYPE III BARRICADE WITH ATTACHED SIGN
-  TYPE "A" WARNING LIGHT (FLASHING)
-  DIRECTION OF TRAFFIC
-  FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

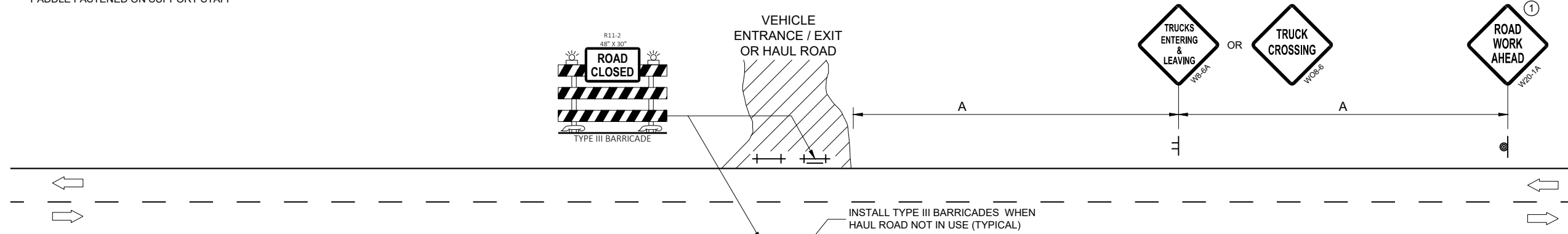
POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET
0-30	200'
35-40	350'
45-55	500'

GENERAL NOTES

- ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.
- "WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.
- THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
- WARNING SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.
- WHEN ACTIVITY REFLECTED BY THE SIGN IS NOT CURRENTLY TAKING PLACE, THE HIGHWAY SHALL BE RESTORED TO NORMAL CONDITION AND THE SIGNS SHALL BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC.
- WHEN A SIDE ROAD OR RAMP INTERSECTS WITHIN THE ADVANCE SIGNING AREA, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND / OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.
- PLACE SIGNS ON BOTH SIDES IF USED ON DIVIDED HIGHWAY.
- ① THESE SIGNS ARE TO BE USED ONLY WHEN VEHICLE ENTRANCE / EXIT CONDITIONS ARE SEPARATED BY MORE THAN TWO MILES FROM PREVIOUS WORK AREA OR SIGNING OR AS DIRECTED BY THE ENGINEER.

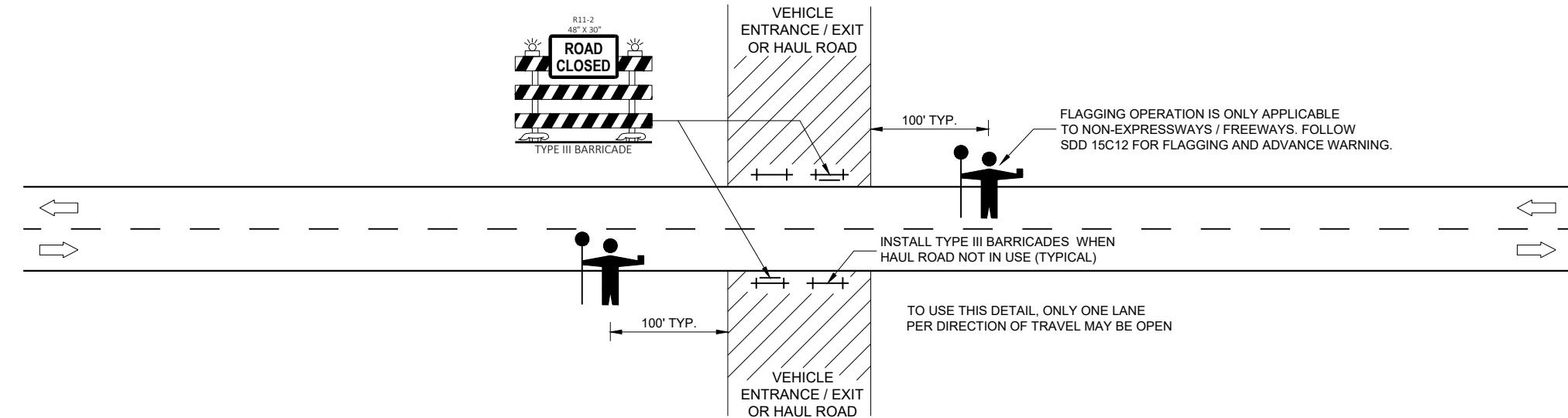
6

6



THIS ABOVE DETAIL TO BE USED WHEN CONSTRUCTION VEHICLE TRAFFIC YIELDS TO THE FREE FLOW OF MAINLINE OR RAMP TRAFFIC.

DRAFT
9/17/19



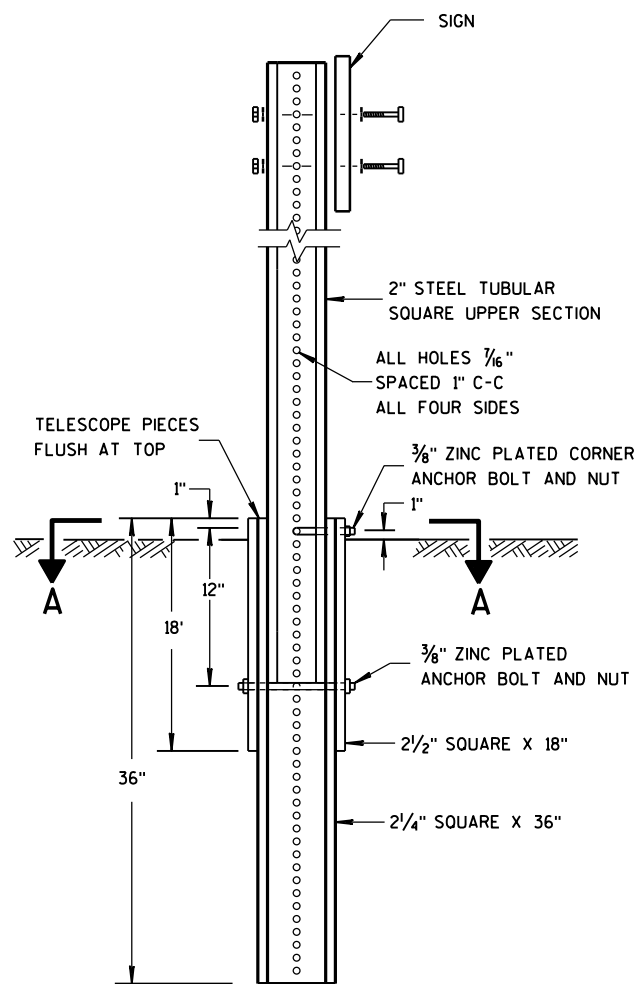
THIS DETAIL TO BE USED WHEN CONSTRUCTION WORK INCLUDING TRUCKING ACTIVITY REQUIRES MAINLINE TRAFFIC TO BE TEMPORARILY STOPPED IN ONE OR BOTH DIRECTIONS. DELAY TO HIGHWAY TRAFFIC SHALL BE MINIMIZED.

FLAGGING OPERATION IS ONLY APPLICABLE TO NON-EXPRESSWAYS / FREEWAYS. FOLLOW SDD 15C12 FOR FLAGGING AND ADVANCE WARNING.

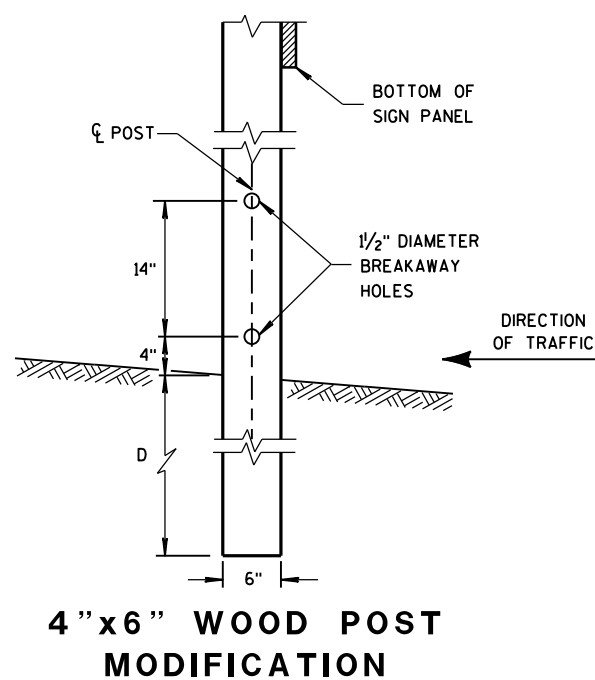
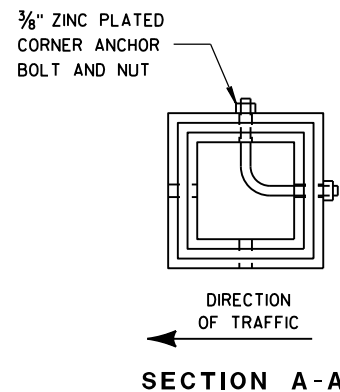
SDD 15D29 - 06

SDD 15D29 - 06

TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2020 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	



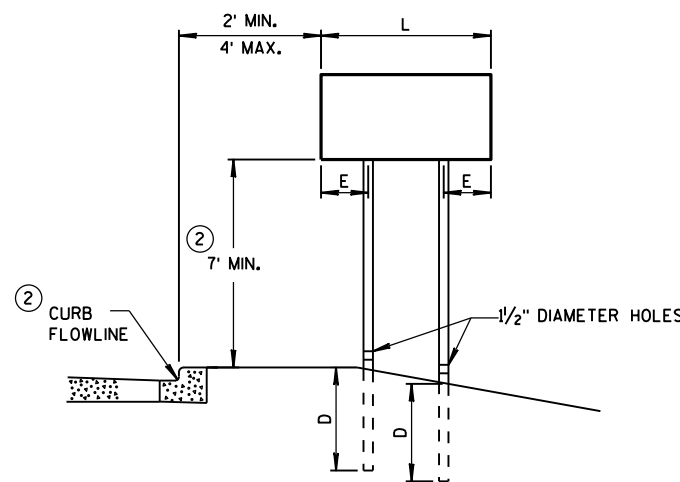
DETAIL OF TUBULAR STEEL SIGN POST



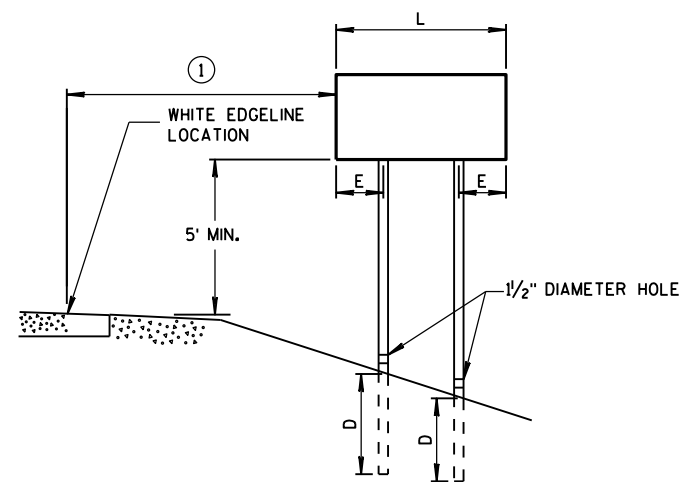
4" X 6" WOOD POST MODIFICATION

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'

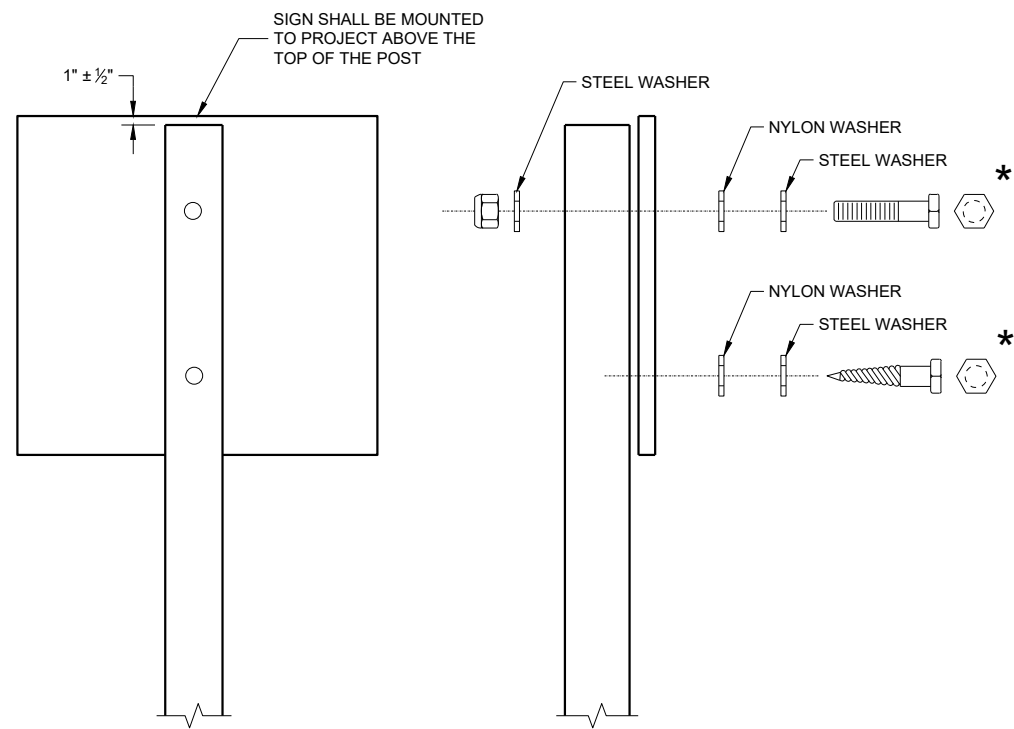
4" X 6" WOOD POST

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 TRANSPORTATION



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 - 3/8" x 3"
 MACHINE BOLTS - 5/16" x 6 1/2" OR 7" LENGTH W/NUTS

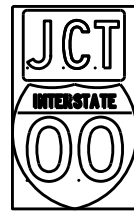
SQUARE STEEL POST (2" x 2")
 MACHINE BOLTS - 3/8" x 3 1/4" LENGTH W/NUTS
 RIVETS - 3/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM
 BODY/MANDREL O.D. FLANGE 0.720 - 0.765 INCH,
 GRIP RANGE 0.042 - 0.375 INCH

WASHERS (ALL POSTS) -
 1 1/4" O.D. x 3/8" I.D. x 1/16" STEEL
 1 1/4" O.D. x 3/8" I.D. x 0.080 NYLON

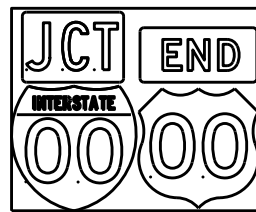
* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

ATTACHMENT OF SIGNS TO POSTS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
<small>FHWA</small>	

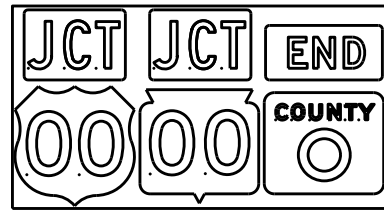
TYPICAL ASSEMBLIES



JI-1



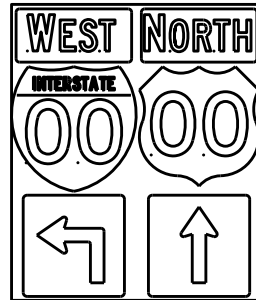
JI-2



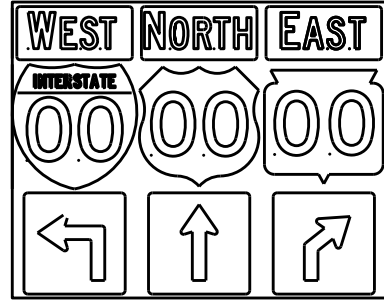
JI-3



J2-1



J2-2

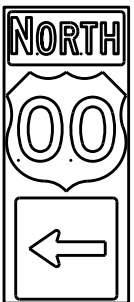


J2-3

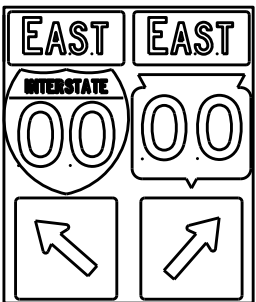


JV

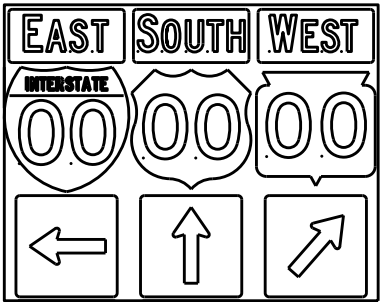
(Typical Vertical J-Assembly
See Note 10 and 11)



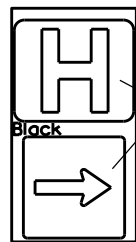
J3-1



J3-2

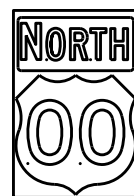


J3-3

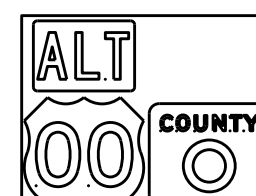


JH-1

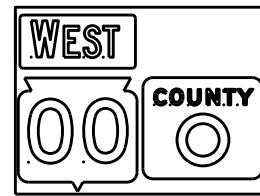
Blue Background



J4-1

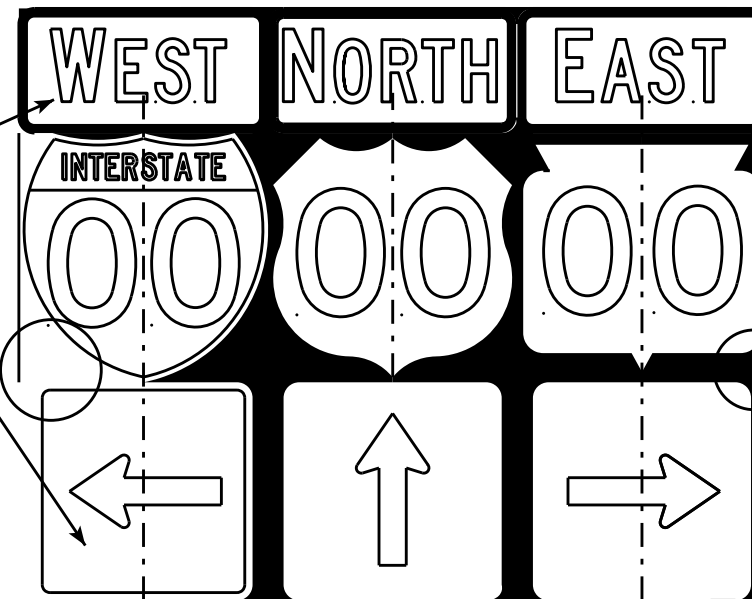
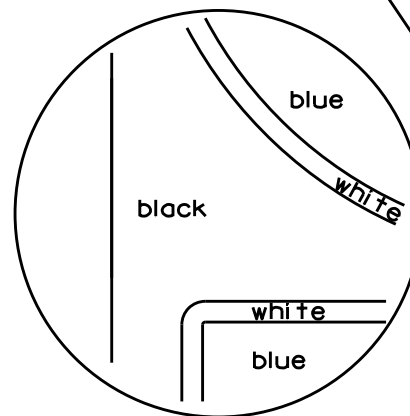


J4-2



J4-2

[blue background with interstate]



black

white

[black background]

**ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES**

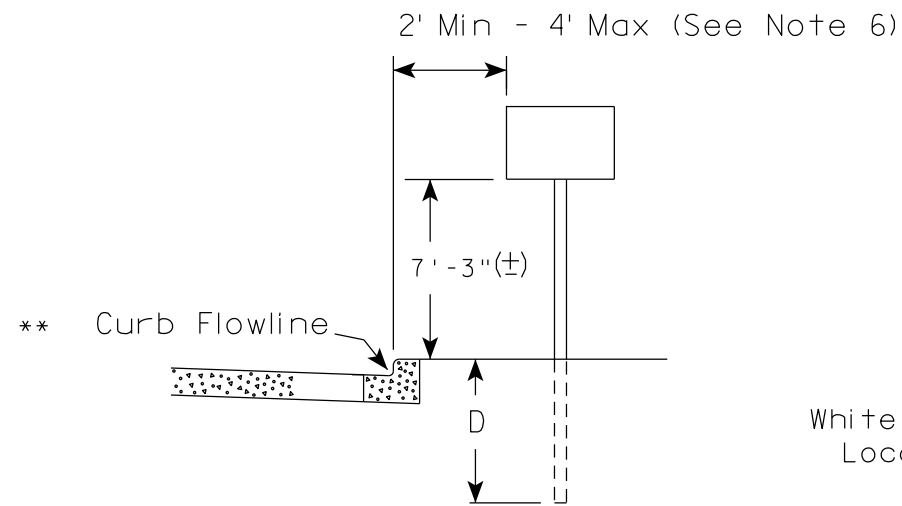
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

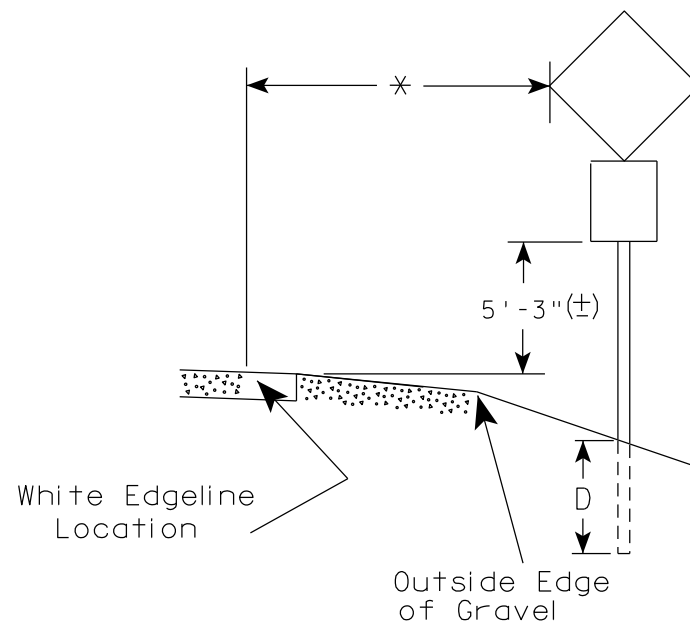
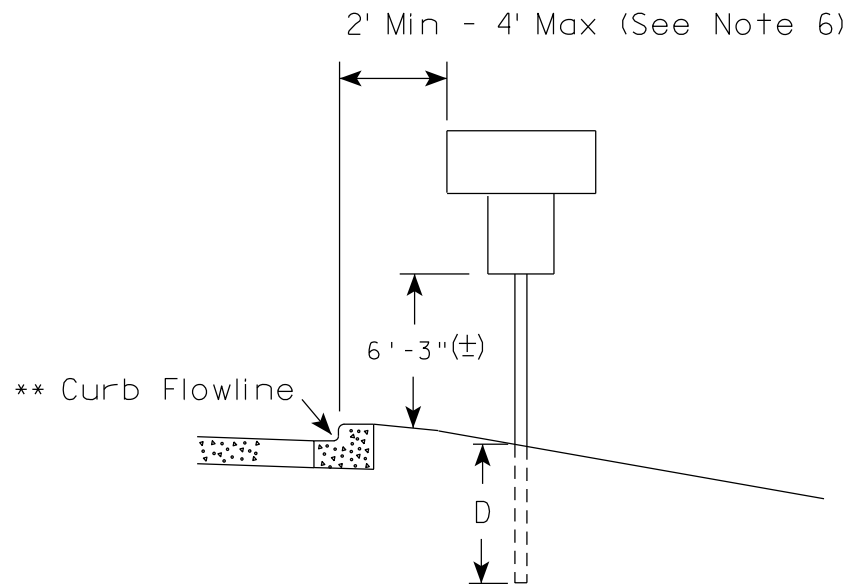
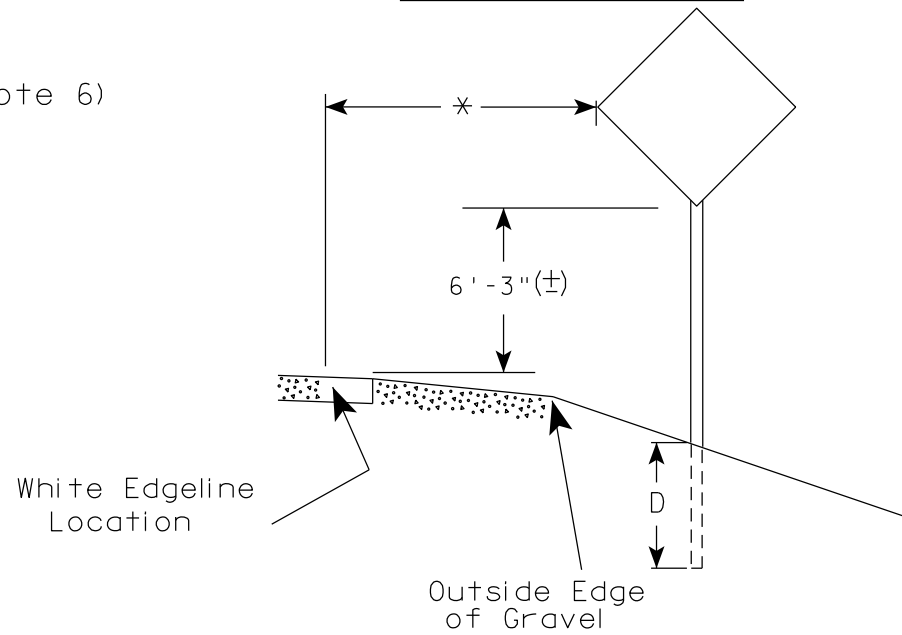
DATE 2/06/14 PLATE NO. A2-1S.8

- NOTES**
- Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
 - Color:
Background - Black Non-reflective
Message - see Note 5
 - Message Series - See Note 5
 - Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
 - The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
 - Certain marker heads require the component pieces to be the same color. As an example, all the components used with an MI-1 Interstate marker shall be blue.
 - Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
 - Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
 - Route assemblies that have 36 inch shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
 - All Vertical J Assemblies are given a Sign Code of JV
 - For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

URBAN AREA



RURAL AREA (See Note 2)



GENERAL NOTES

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

POST EMBEDMENT DEPTH

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

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

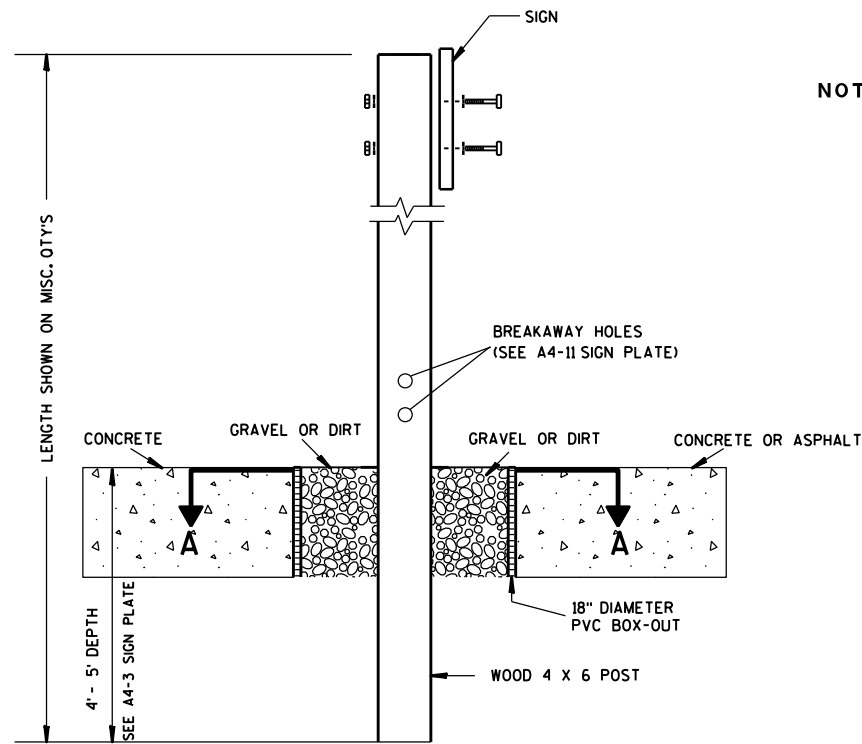
* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

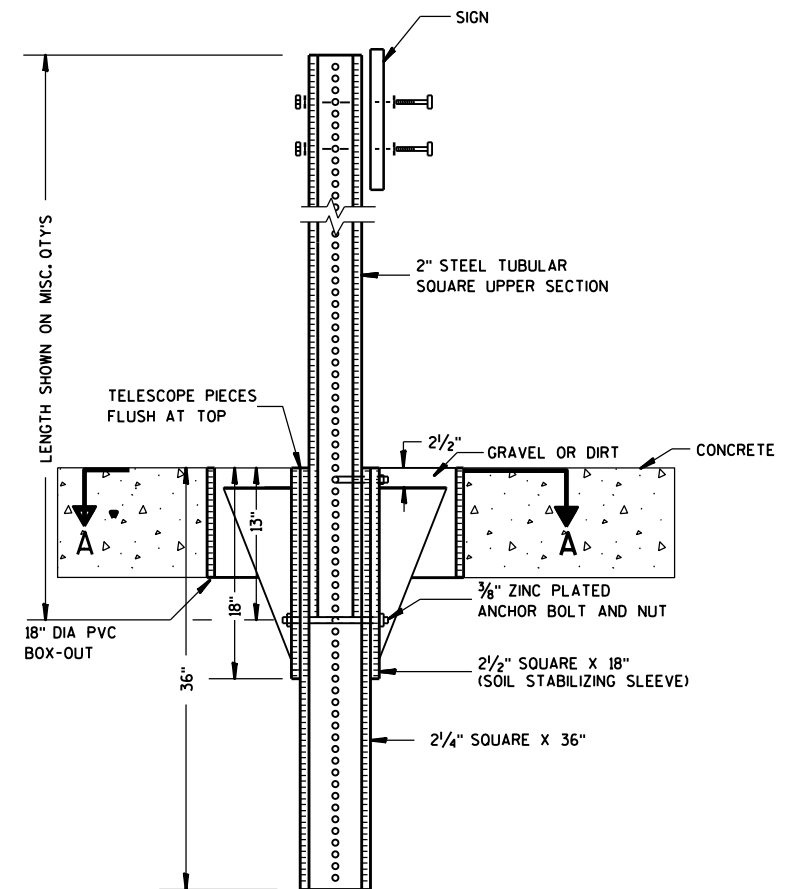
DATE 5/13/2020 PLATE NO. A4-3.22



ELEVATION VIEW

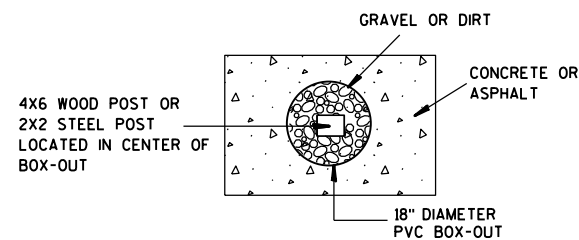
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

- 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



PLAN VIEW

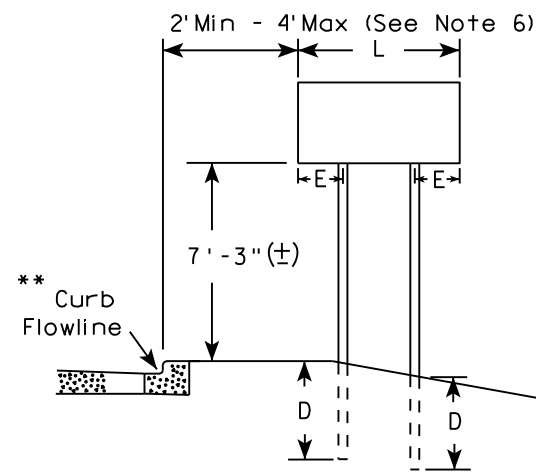
FOR NEW CONCRETE/ ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B	
<small>WISCONSIN DEPT OF TRANSPORTATION</small>	
APPROVED <i>Matthew R. Rauch</i> <small>for State Traffic Engineer</small>	
<small>DATE 1/27/14</small>	<small>PLATE NO. A4-3B.1</small>

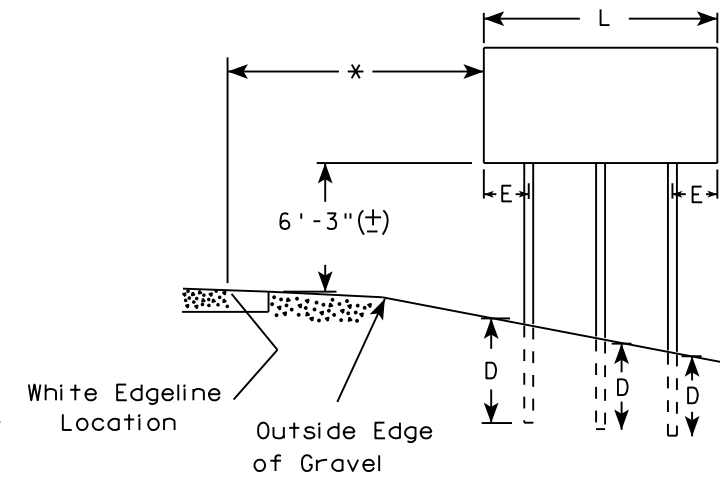
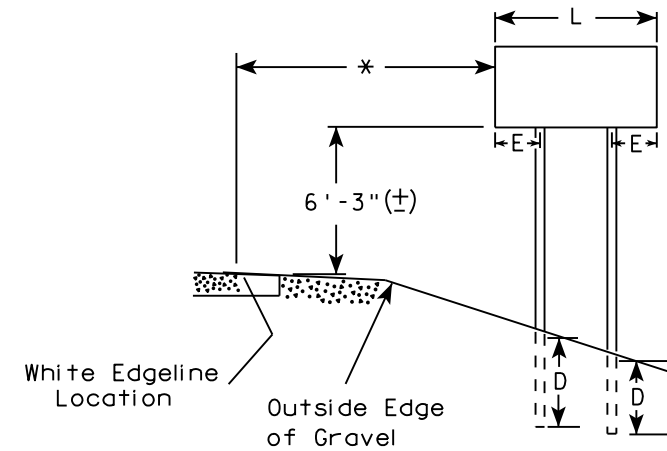
GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

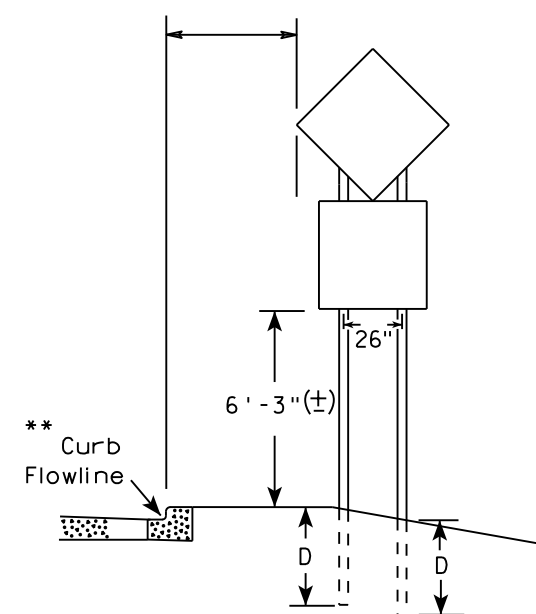
URBAN AREA



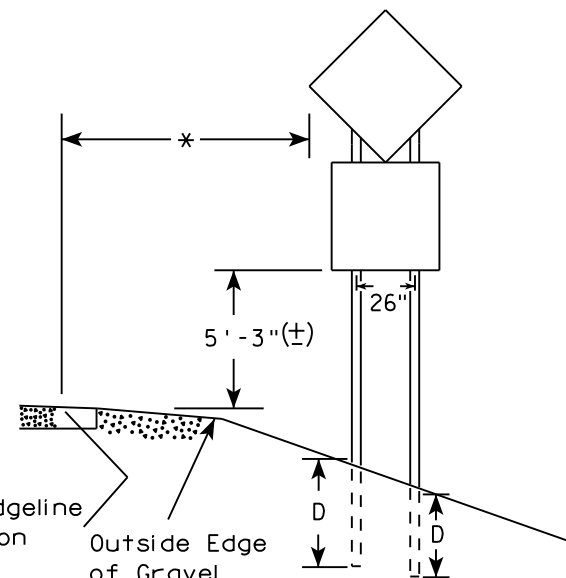
RURAL AREA (See Note 3)



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



48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

* 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.

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

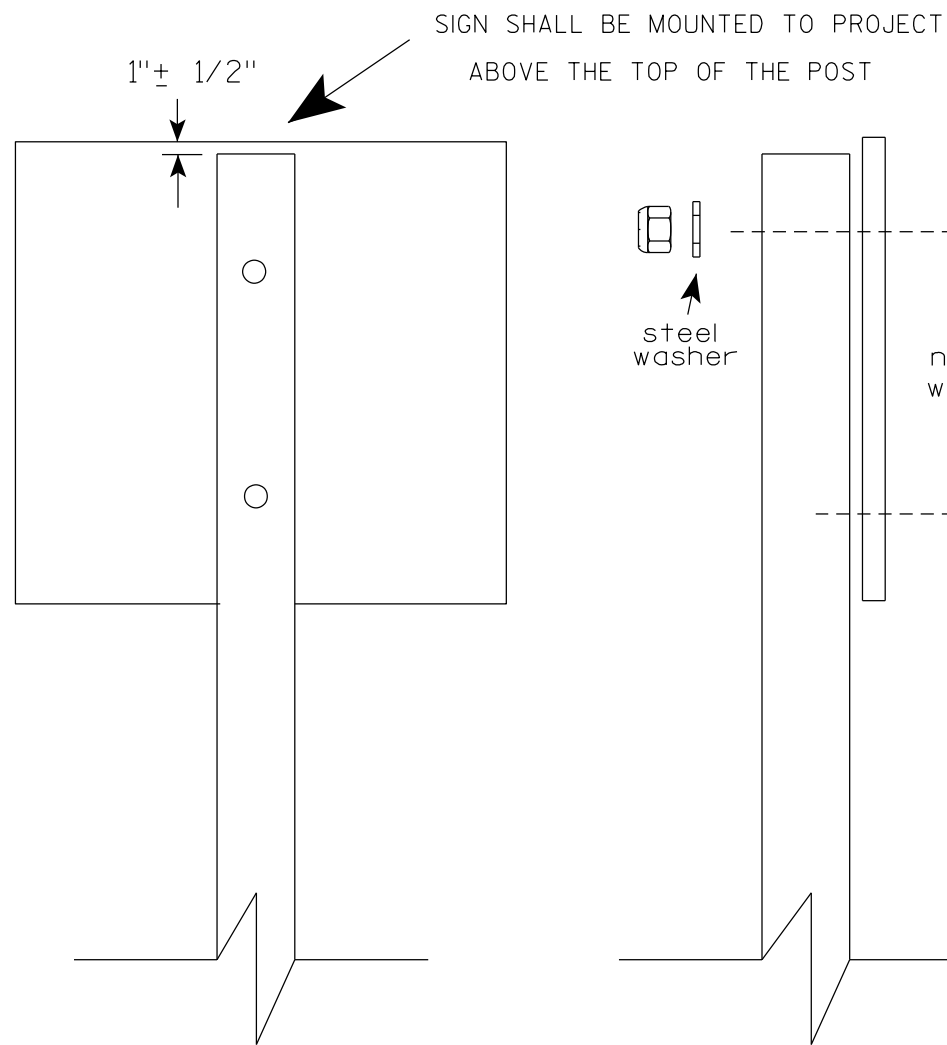
SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION
 APPROVED *Matthew R. Rauch*
 For State Traffic Engineer
 DATE 8/21/17 PLATE NO. A4-4.15



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

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

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

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

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

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

SQUARE STEEL POSTS (2" x 2")

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

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON

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

ATTACHMENT OF SIGNS
TO POSTS

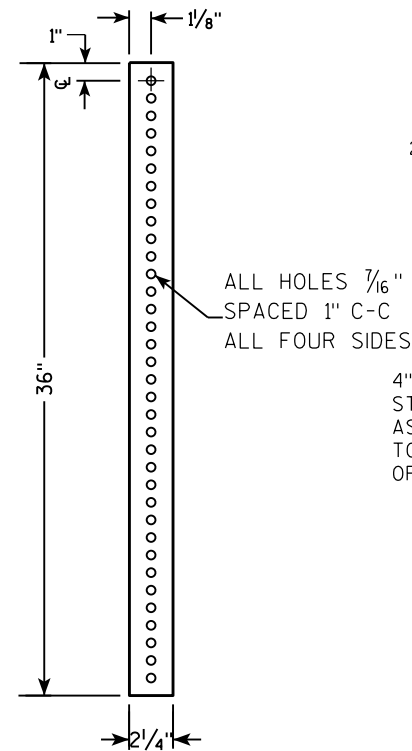
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R Rauch*
For State Traffic Engineer

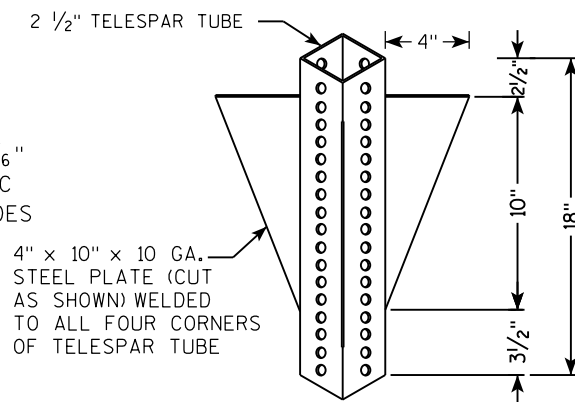
DATE 4/1/2020 PLATE NO. A4-8.9

**TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM**

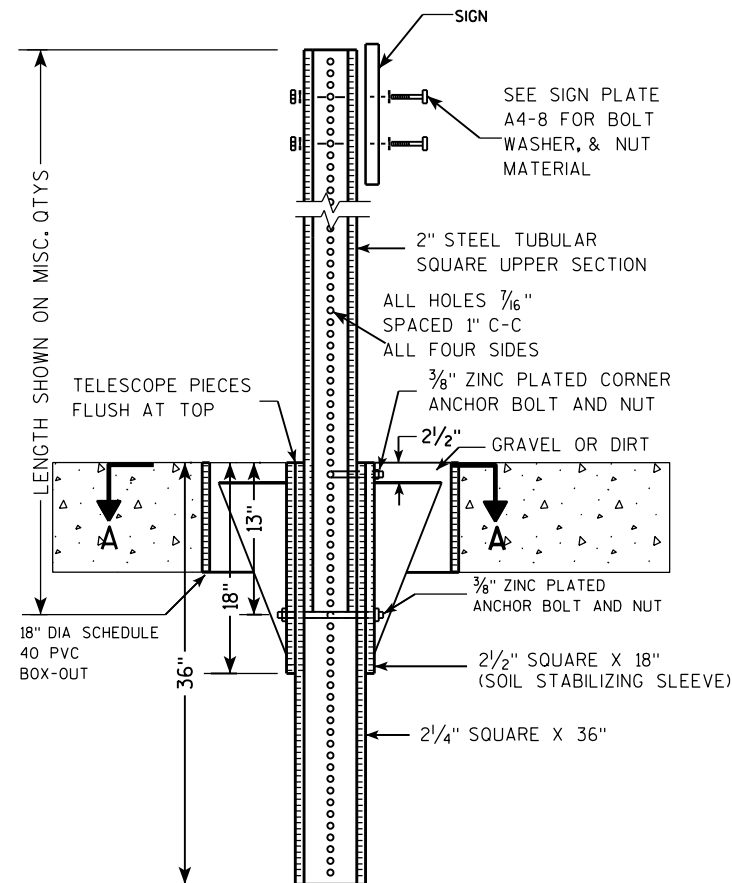
2 1/4" SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



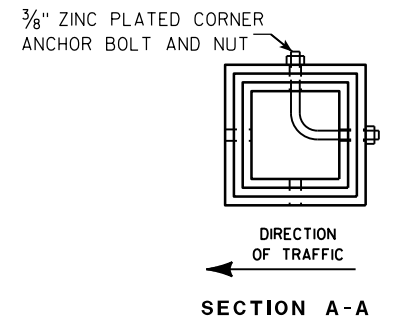
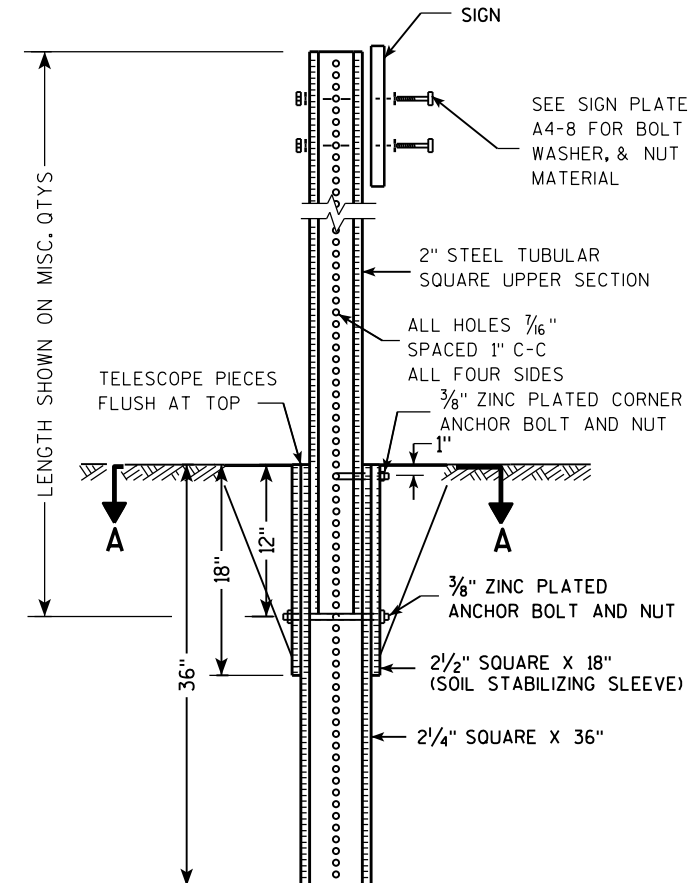
2 1/2" SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH



**DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)**



**DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)**



Area of Sign Installation (Sq. Ft.)	Number of Required 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

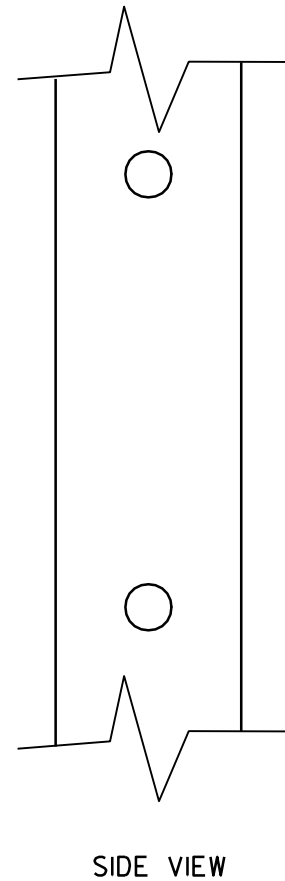
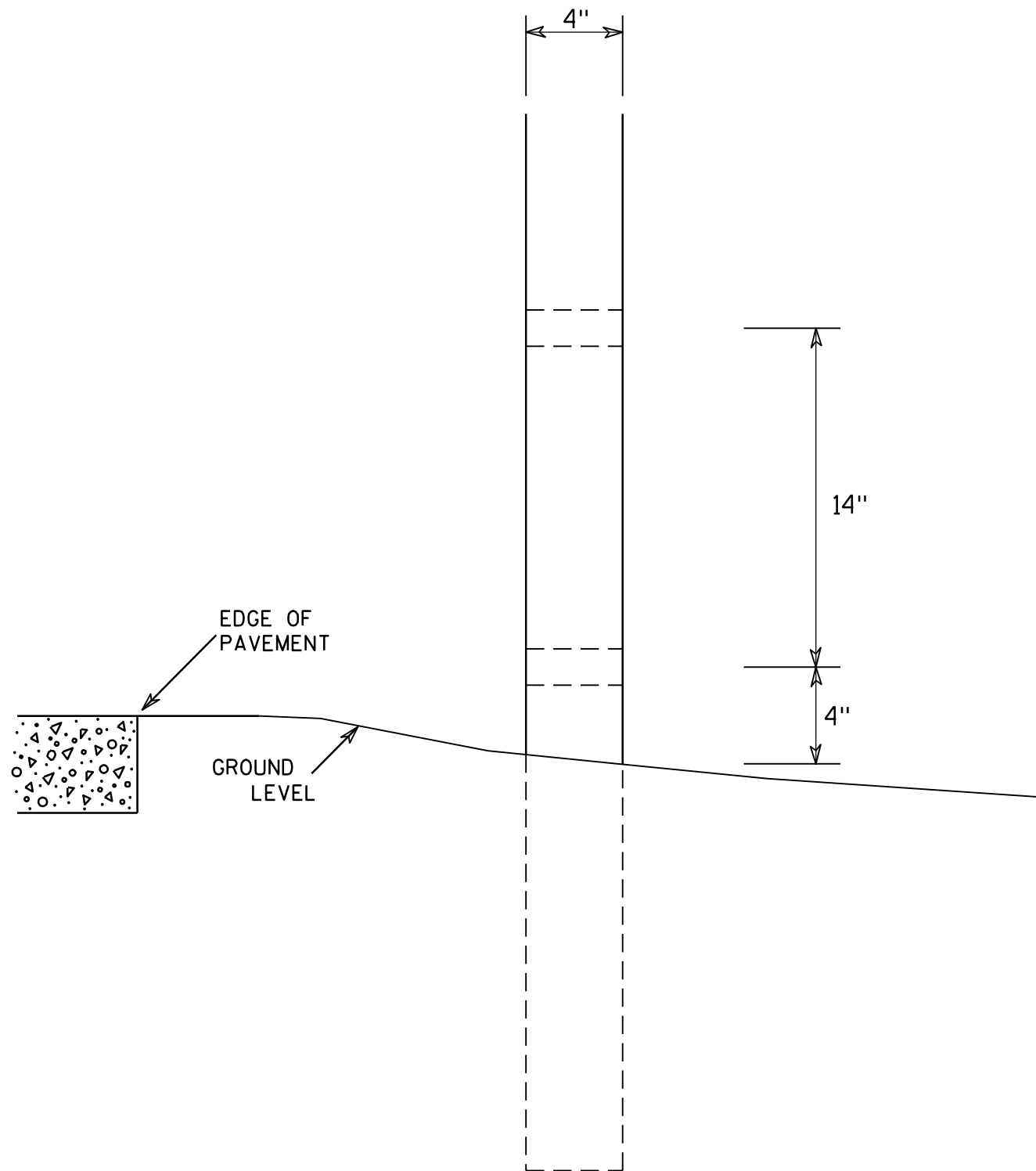
Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

**TUBULAR STEEL
SIGN POST
A4-9**

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 2/05/15 PLATE NO. A4-9.9



GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

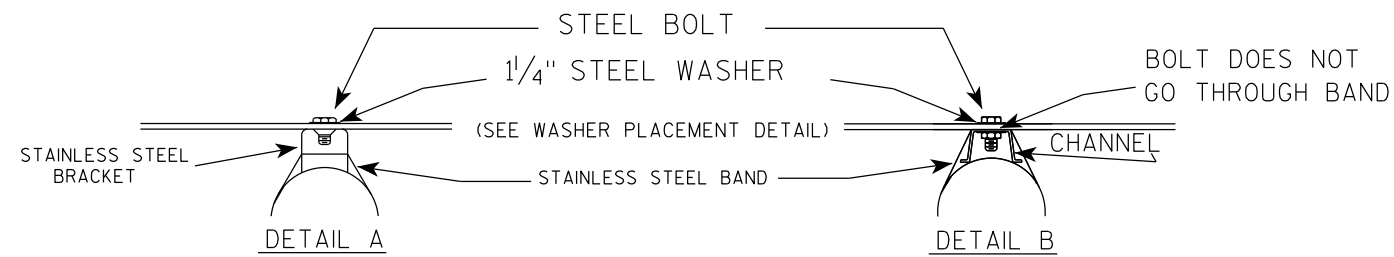
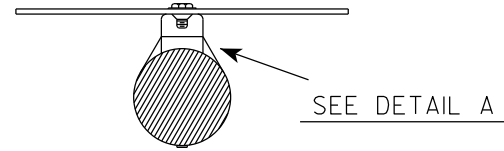
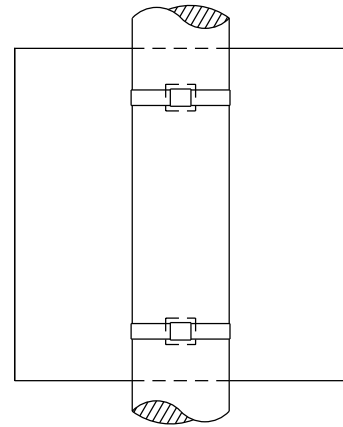
7

7

4 X 6 WOOD POST MODIFICATIONS	
<i>WISCONSIN DEPT OF TRANSPORTATION</i>	
APPROVED	<i>Chester J Spang</i> for State Traffic Engineer
DATE <u>3/27/97</u>	PLATE NO. <u>A4-11.2</u>

BANDING

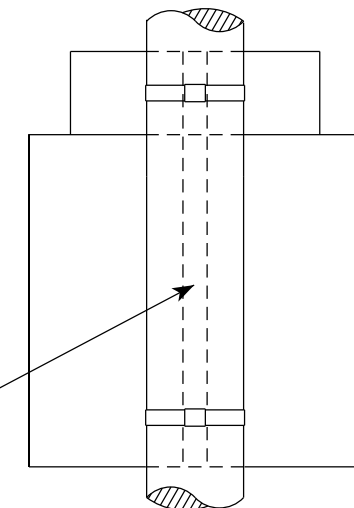
SINGLE SIGN



GENERAL NOTES

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

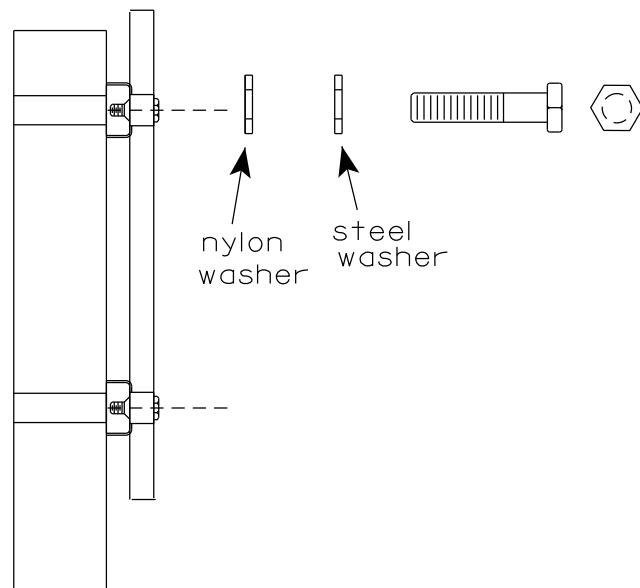
"J" ASSEMBLY



CHANNEL
SEE TYPICAL PANEL
INSTALLATION SHEET

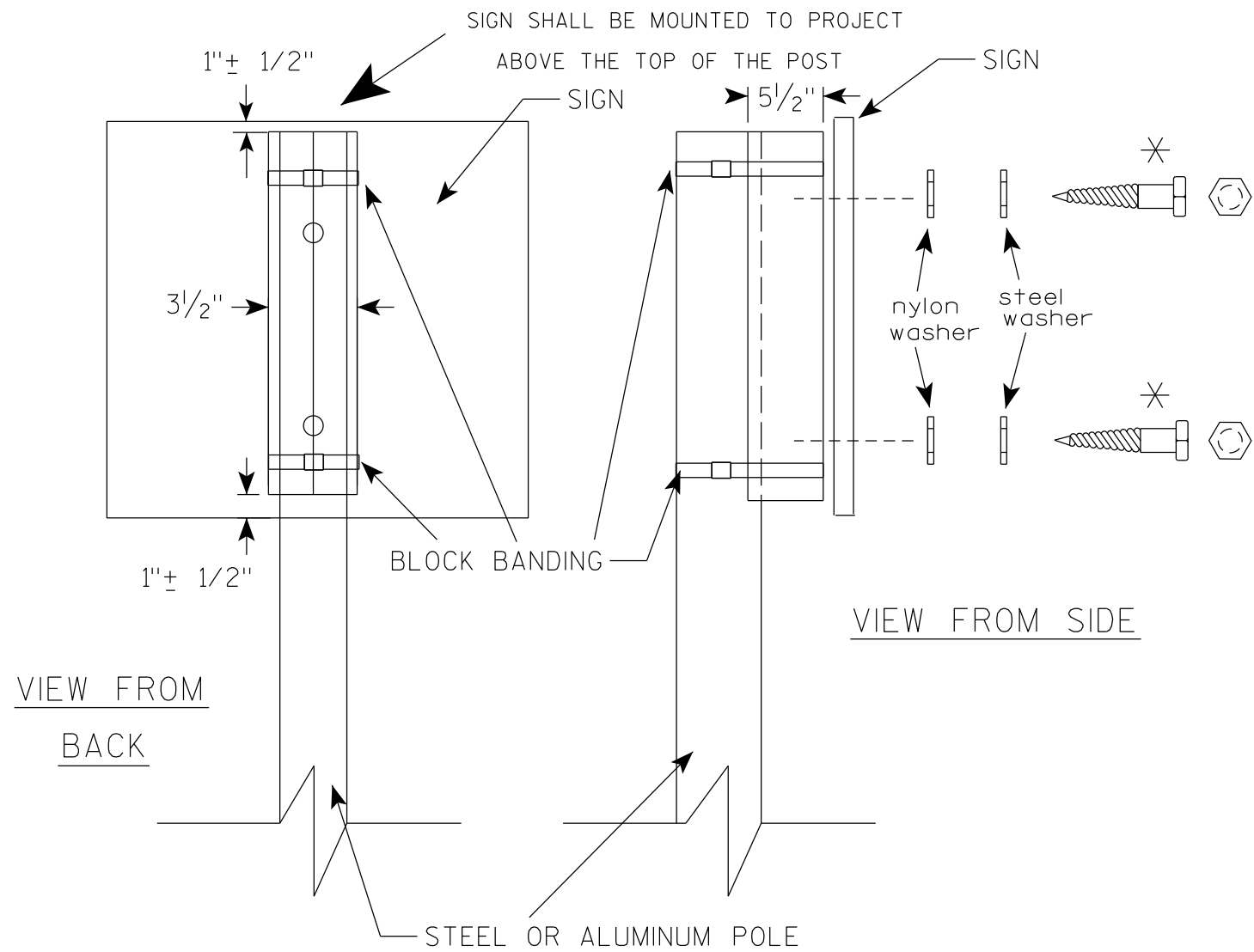


WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

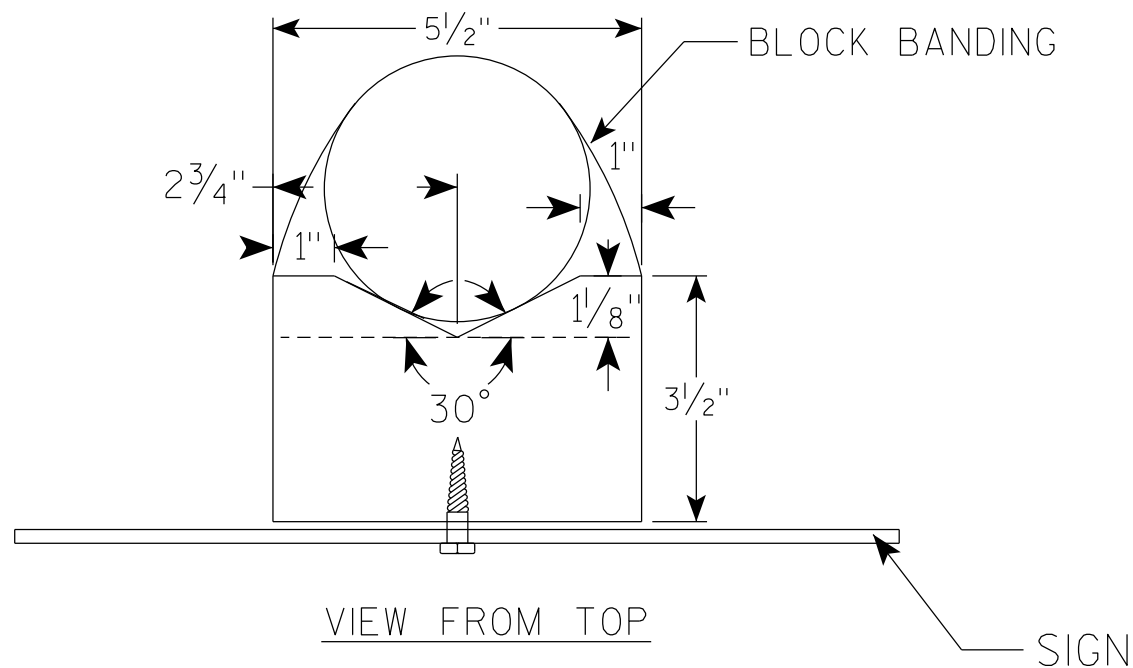
STANDARD SIGN
SIGN BANDING DETAILS
WISCONSIN DEPT OF TRANSPORTATION
APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 6/10/19 PLATE NO. A5-9.4



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 NORMALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1/4" O.D. X 3/8" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1/4" O.D. X 3/8" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

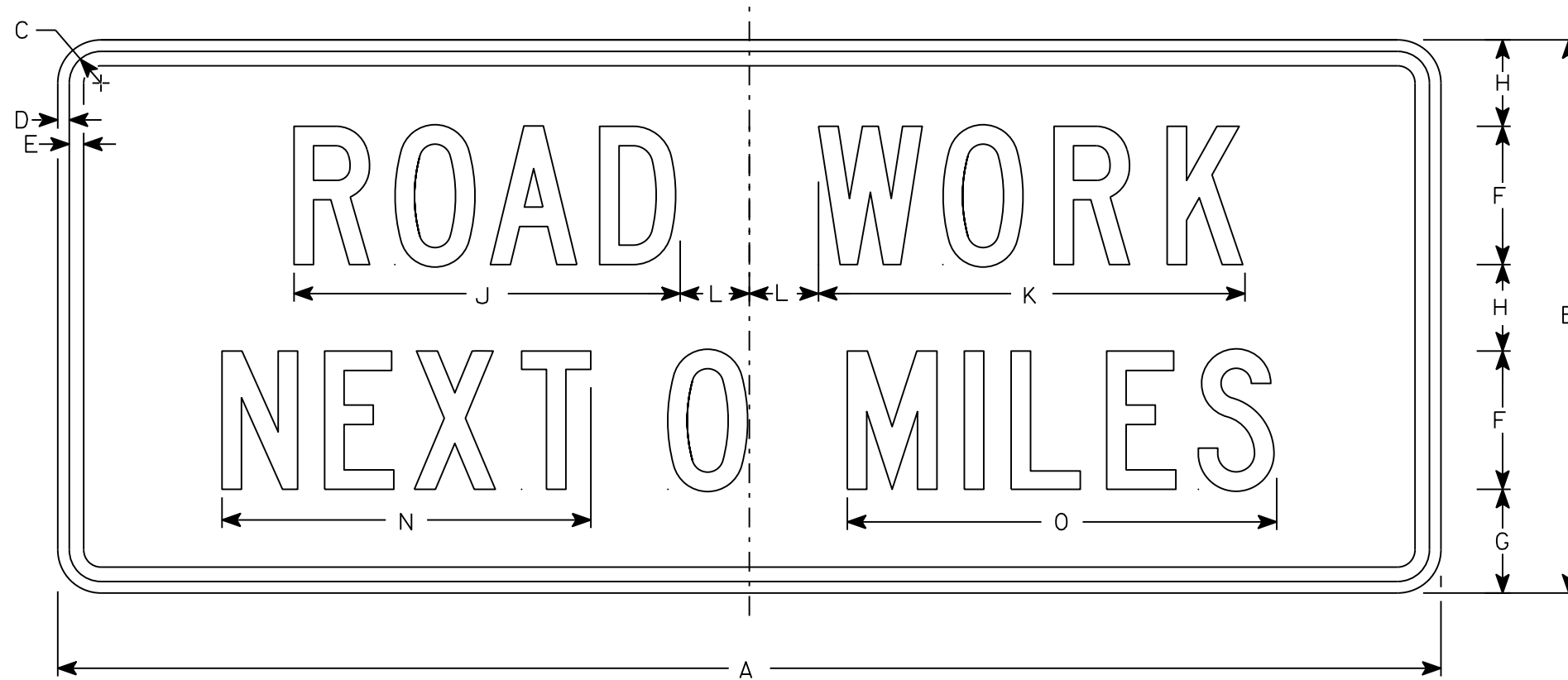
✱ LAG BOLTS SHALL BE 3/8" X 2 1/2"



BLOCK BANDING DETAIL (V-BLOCK OPTION)	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R Rauch</i> for State Traffic Engineer
DATE 6/10/19	PLATE NO. A5-10.2

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
Background - Orange
Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Round distance to nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance



G20-1

7

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10
3																											
4	60	24	1 3/8	1/2	5/8	6	4 1/2	3 3/4		16 3/4	18 1/2	3		16	18 5/8												10
5																											

STANDARD SIGN
G20-1

WISCONSIN DEPT OF TRANSPORTATION

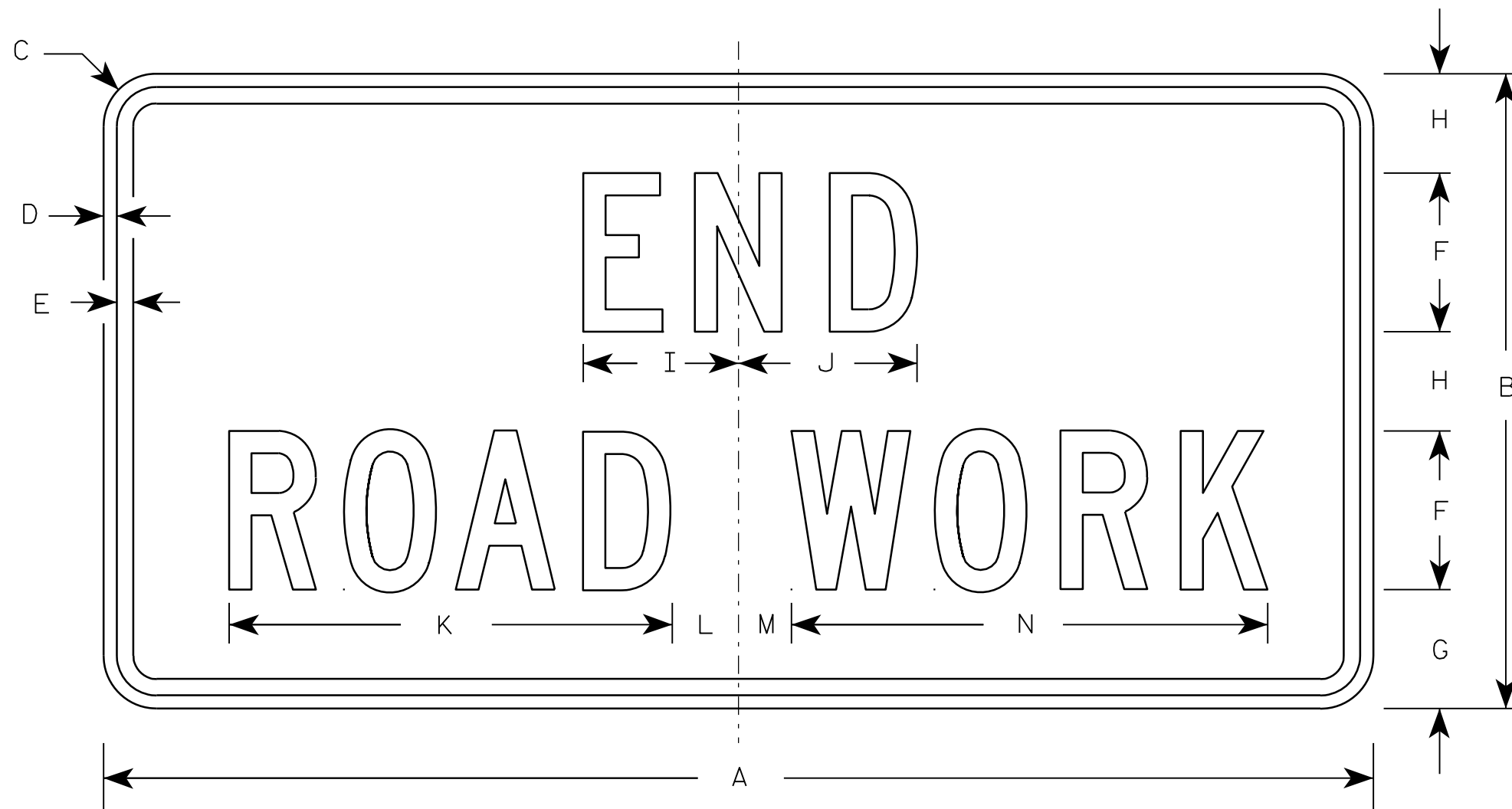
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 3/14/17 PLATE NO. G20-1.8

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: _____ **E**

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.



G20-2A

Metric equivalent
for this sign is:

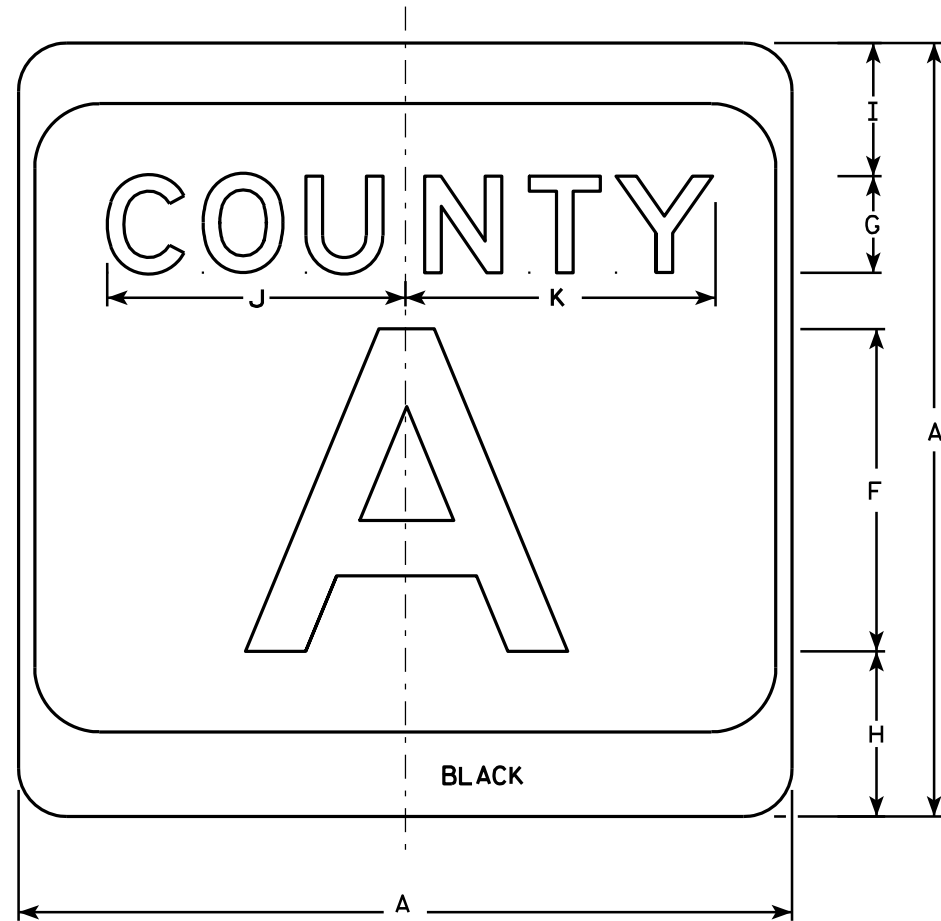
SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area sq.
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 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

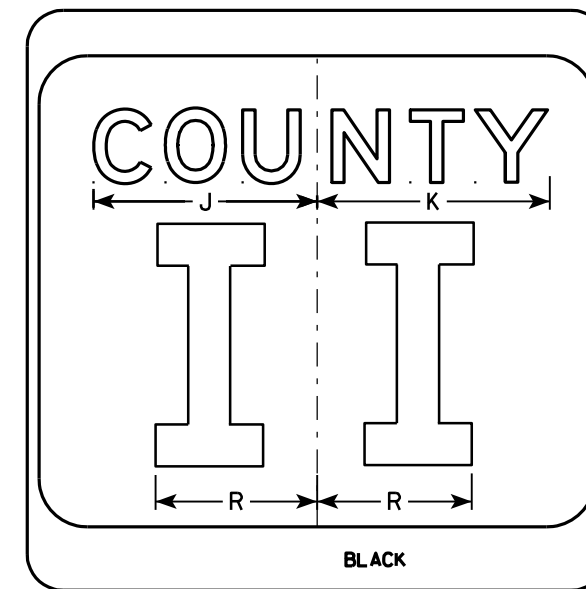
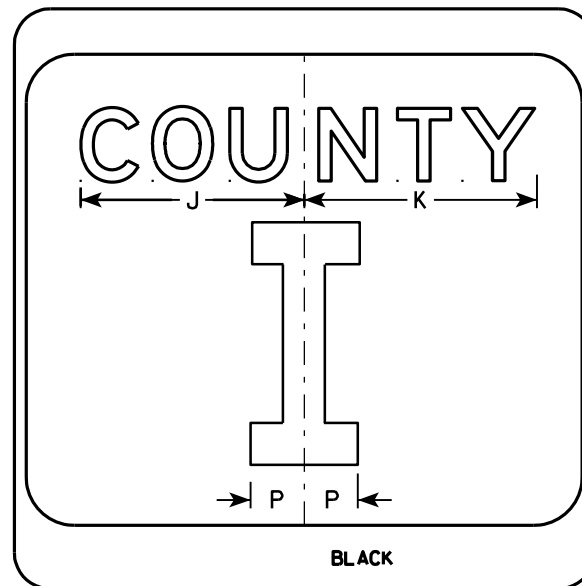
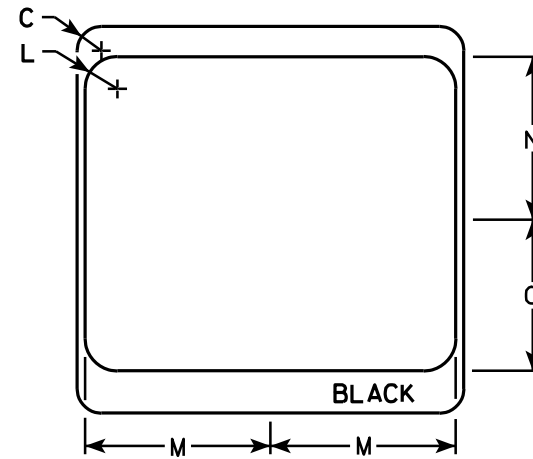
STANDARD SIGN G20-2A	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 9/30/09	PLATE NO. G20-2A.8

NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White & Black - See Note 7
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. Message Series E for 1 letter.
Message Series D for 2 letters unless message is too big then Series C.
Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
Background - Type H Reflective
Detour or temporary Signs
Background - Reflective



M1-5A



7

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

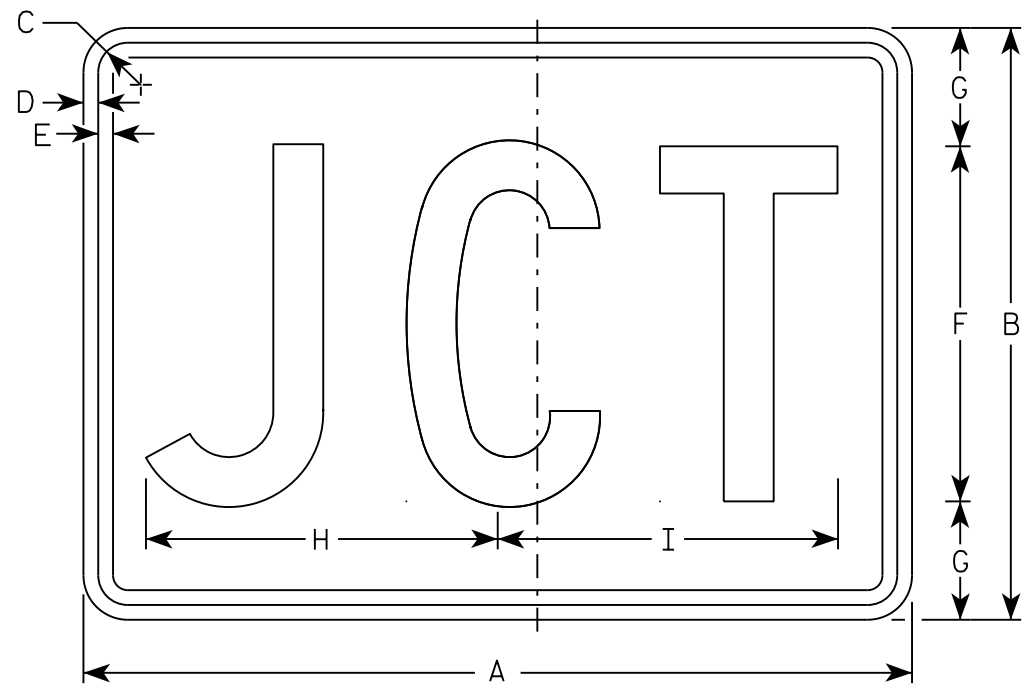
APPROVED *Matthew R. Raub*
For State Traffic Engineer

DATE 9/27/11 PLATE NO. MI-5A.8

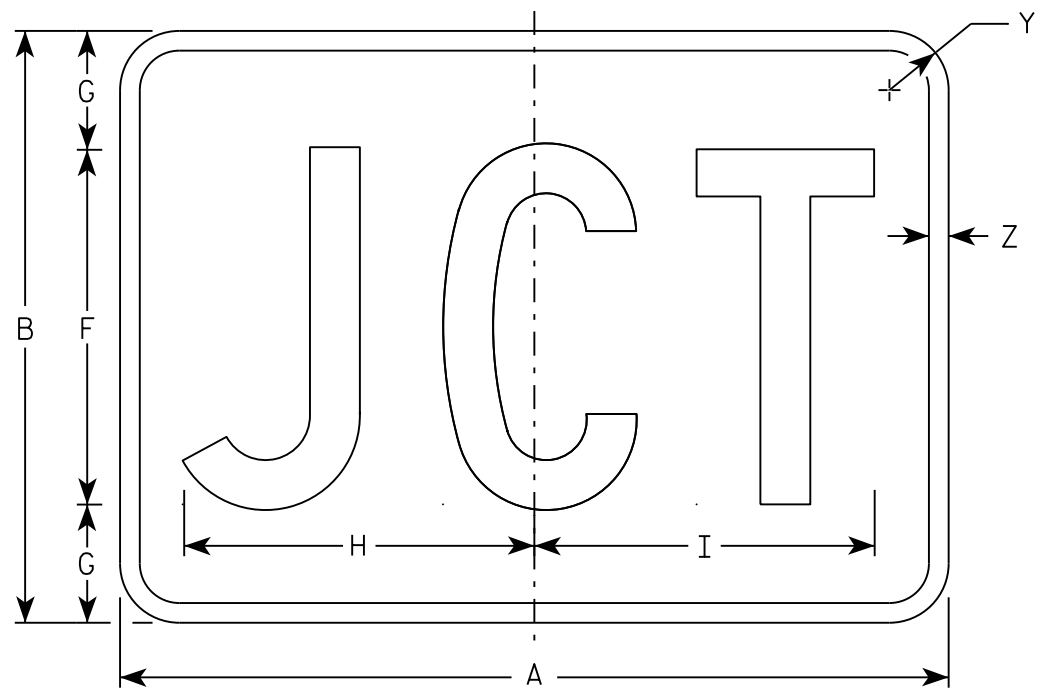
PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: **E**

NOTES

1. Sign is Type II - Type H
2. Color:
 - Background - See note 5
 - Message - See note 5
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.
5. M2-1 Background - White
 Message - Black
 MB2-1 Background - Blue
 Message - White
 MK2-1 Background - Green
 Message - White
 MM2-1 Background - White
 Message - Green
 MN2-1 Background - Brown
 Message - White
 MP2-1 Background - White
 Message - Blue
 MR2-1 Background - Brown
 Message - Yellow



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

7

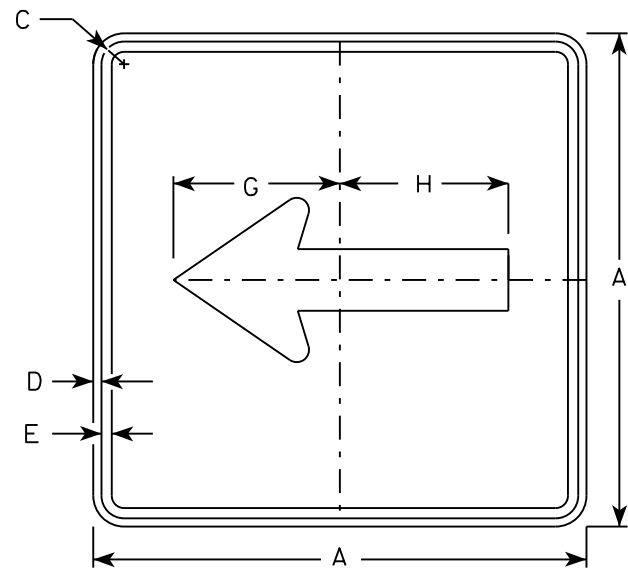
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

STANDARD SIGN
M2-1

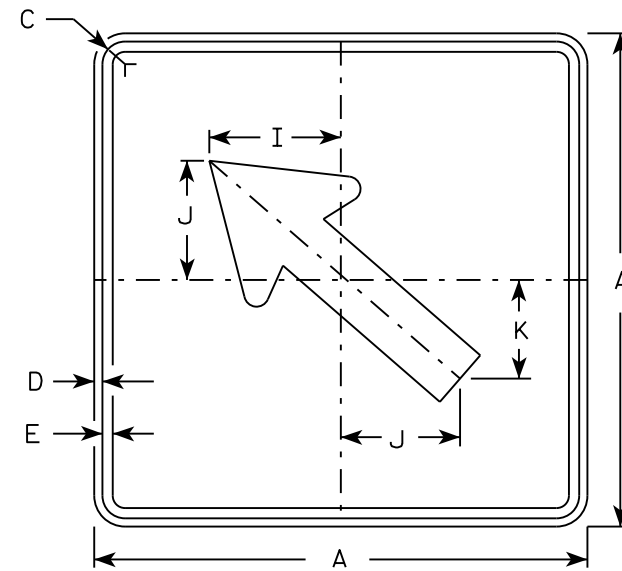
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

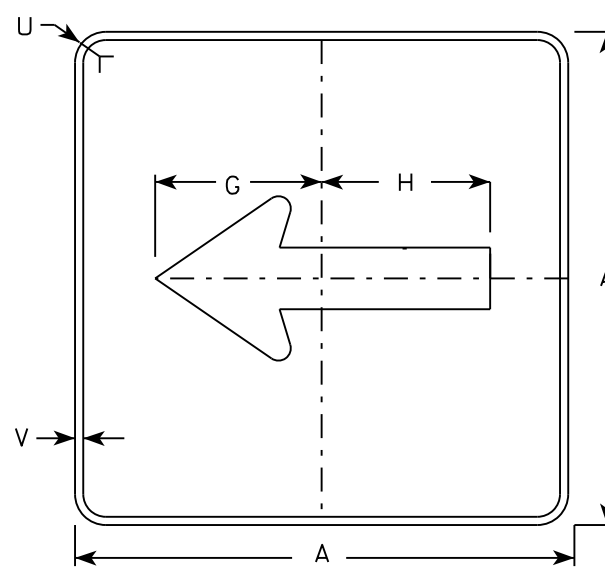
DATE 10/15/15 PLATE NO. M2-1.12



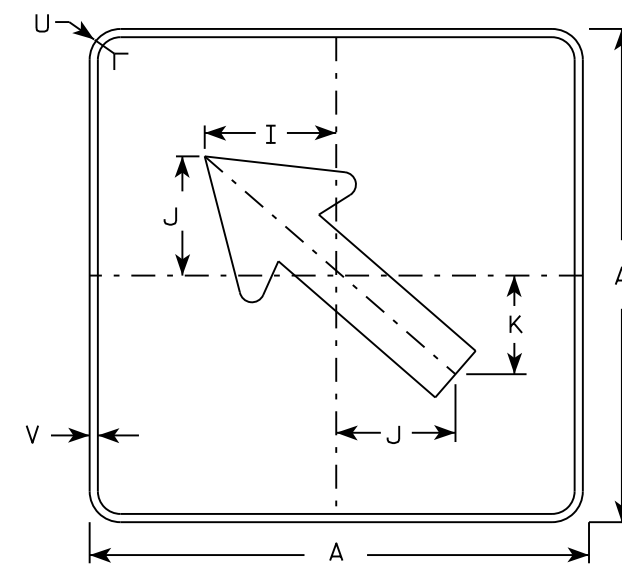
M6-1
MM6-1
M06-1
MP6-1



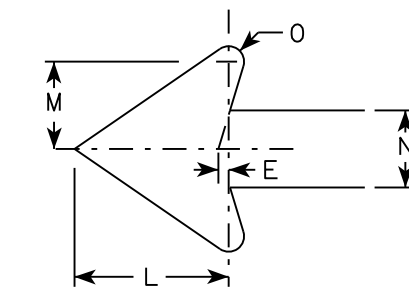
M6-2
MM6-2
M06-2
MP6-2



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



NOTES

- Signs are Type II - Type H except as Shown
- Color:
Background - See note 4
Message - See note 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.
- M6-1 and M6-2 Background - White
Message - Black
MB6-1 and MB6-2 Background - Blue
Message - White
MK6-1 and MK6-2 Background - Green
Message - White
MM6-1 and MM6-2 Background - White
Message - Green
MN6-1 and MN6-2 Background - Brown
Message - White
M06-1 and M06-2 Background - Orange - Type F Reflective
Message - Black
MP6-1 and MP6-2 Background - White
Message - Blue
MR6-1 and MR6-2 Background - Brown
Message - Yellow

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

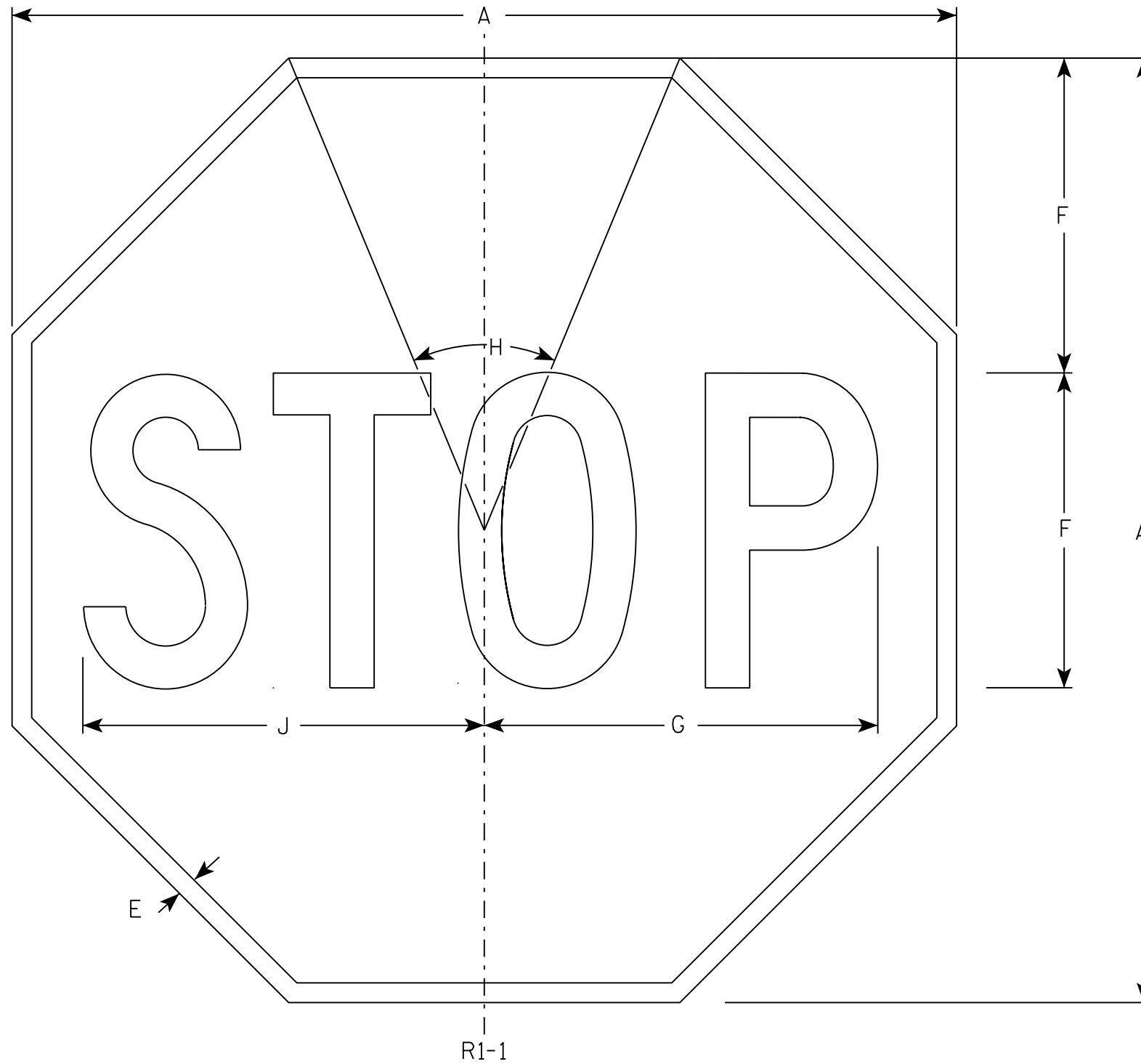
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M6-1.15

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Red
Message - White
3. Message Series - C



7

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

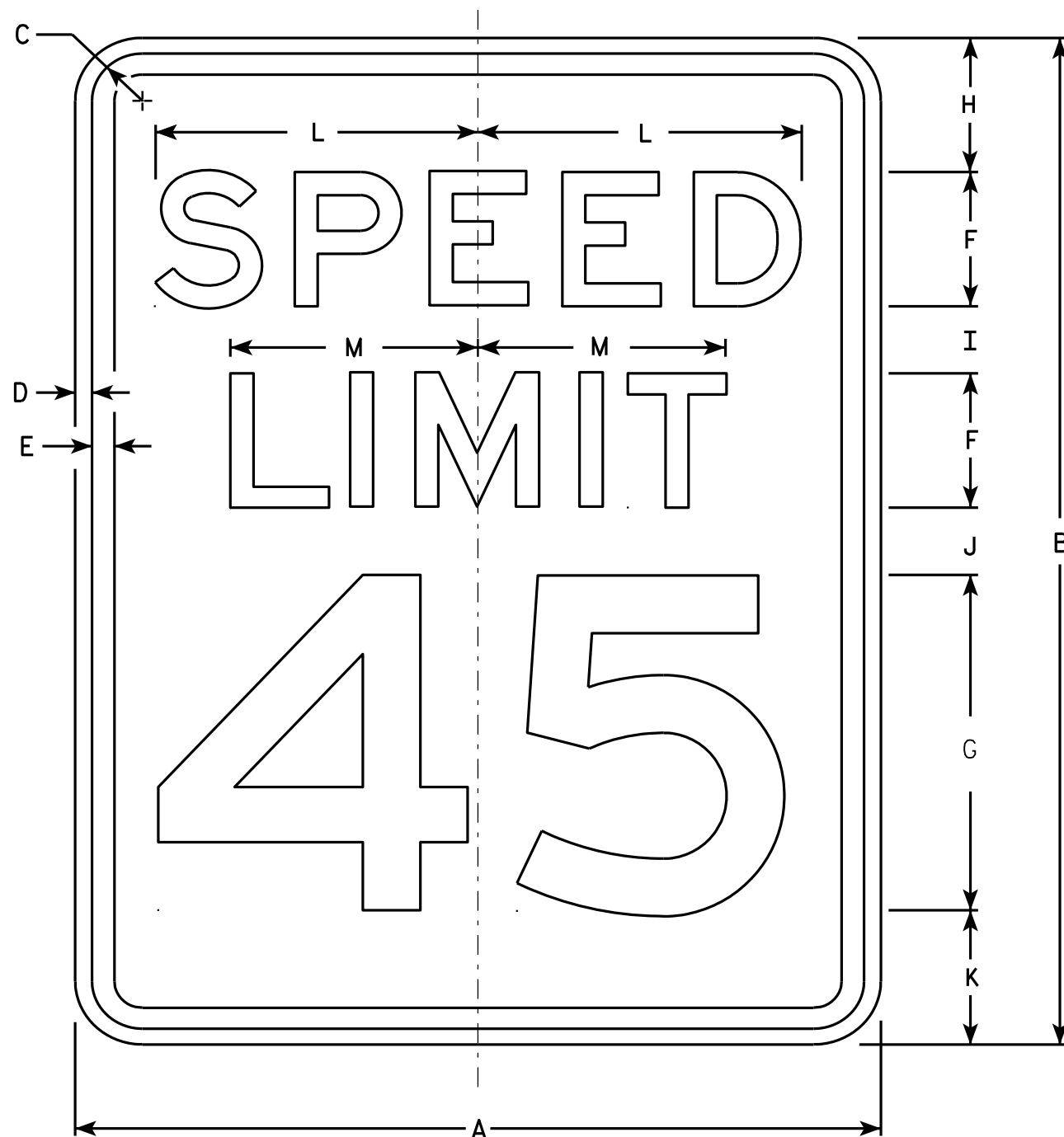
PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: **E**

STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13



R2-1

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.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

7

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

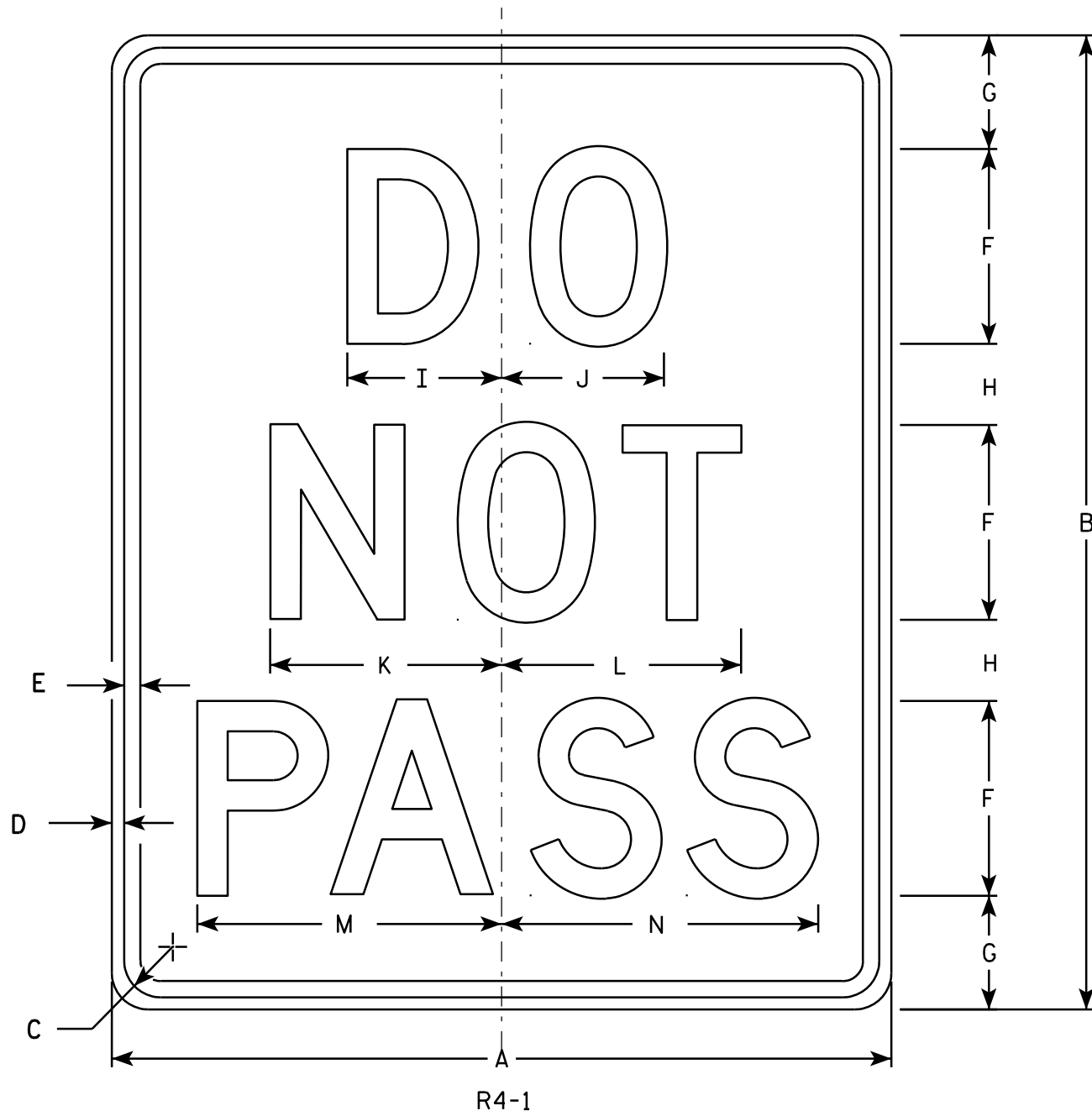
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: _____ E

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 - 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.



7

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	4	3 1/2	2 1/2	3 1/8	3 1/4	4 3/4	4 7/8	6 1/4	6 1/2													3.0
2S	24	30	1 1/8	3/8	1/2	6	3 1/2	2 1/2	4 3/4	5	7 1/8	7 3/8	9 3/8	9 3/4													5.0
2M	24	30	1 1/8	3/8	1/2	6	3 1/2	2 1/2	4 3/4	5	7 1/8	7 3/8	9 3/8	9 3/4													5.0
3																											
4	36	48	1 5/8	5/8	3/4	8	7	5	6 1/4	6 5/8	9 1/2	9 3/4	12 1/2	13													12.0
5	48	60	2 1/4	3/4	1	10	8	7	7 3/4	8 3/8	11 1/8	12 1/4	15 5/8	16 1/4													20.0

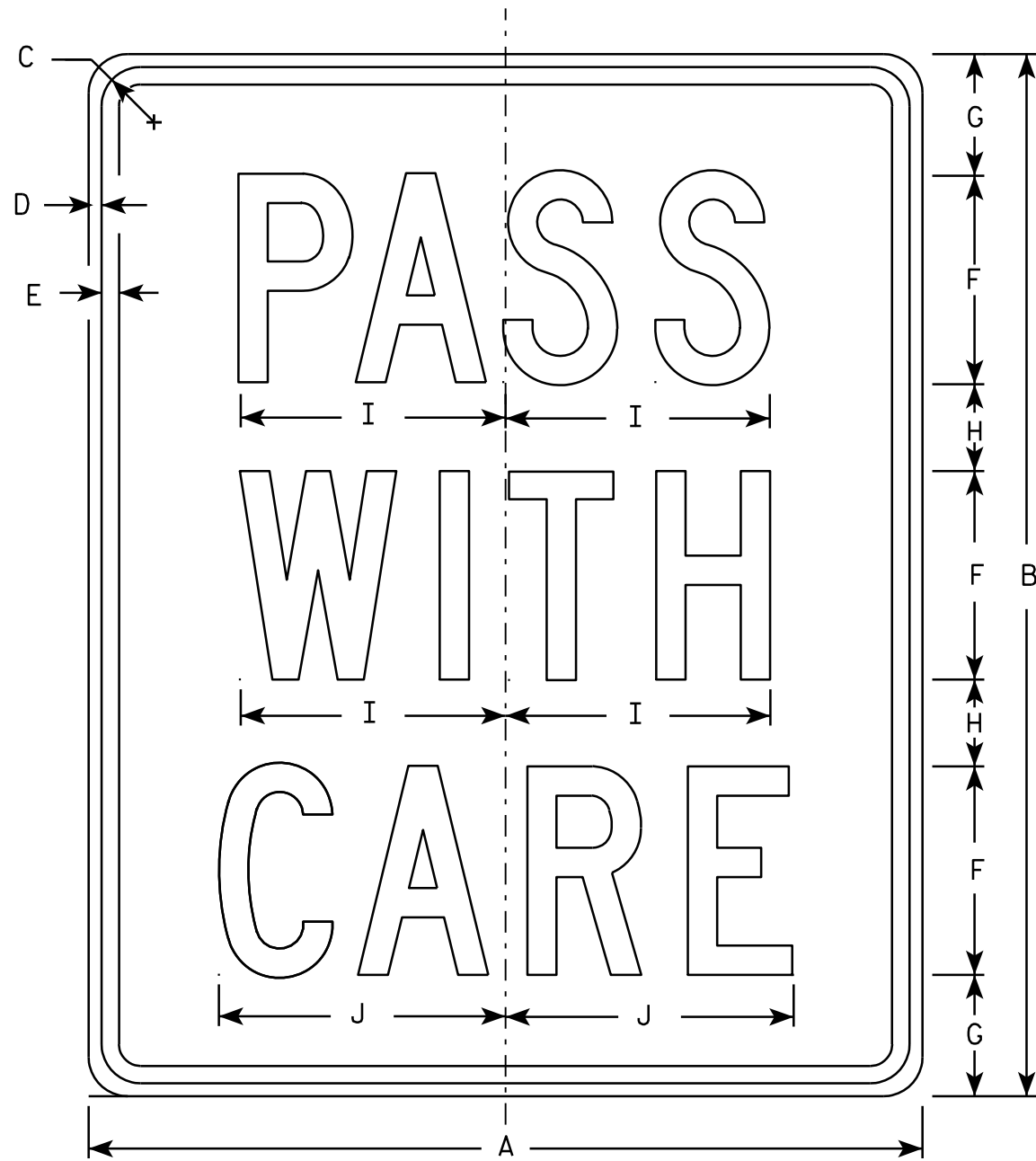
STANDARD SIGN
R4-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-1.7

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: _____ E



R4-2

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 - 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.

7

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	5	2 3/4	1 3/4	6 3/8	6 7/8																	3.0
2S	24	30	1 1/8	3/8	1/2	6	3 1/2	2 1/2	7 5/8	8 1/4																	5.0
2M	24	30	1 1/8	3/8	1/2	6	3 1/2	2 1/2	7 5/8	8 1/4																	5.0
3	36	48	1 3/8	1/2	5/8	10	5 1/2	3 1/2	12 3/4	13 3/4																	12.0
4																											
5																											

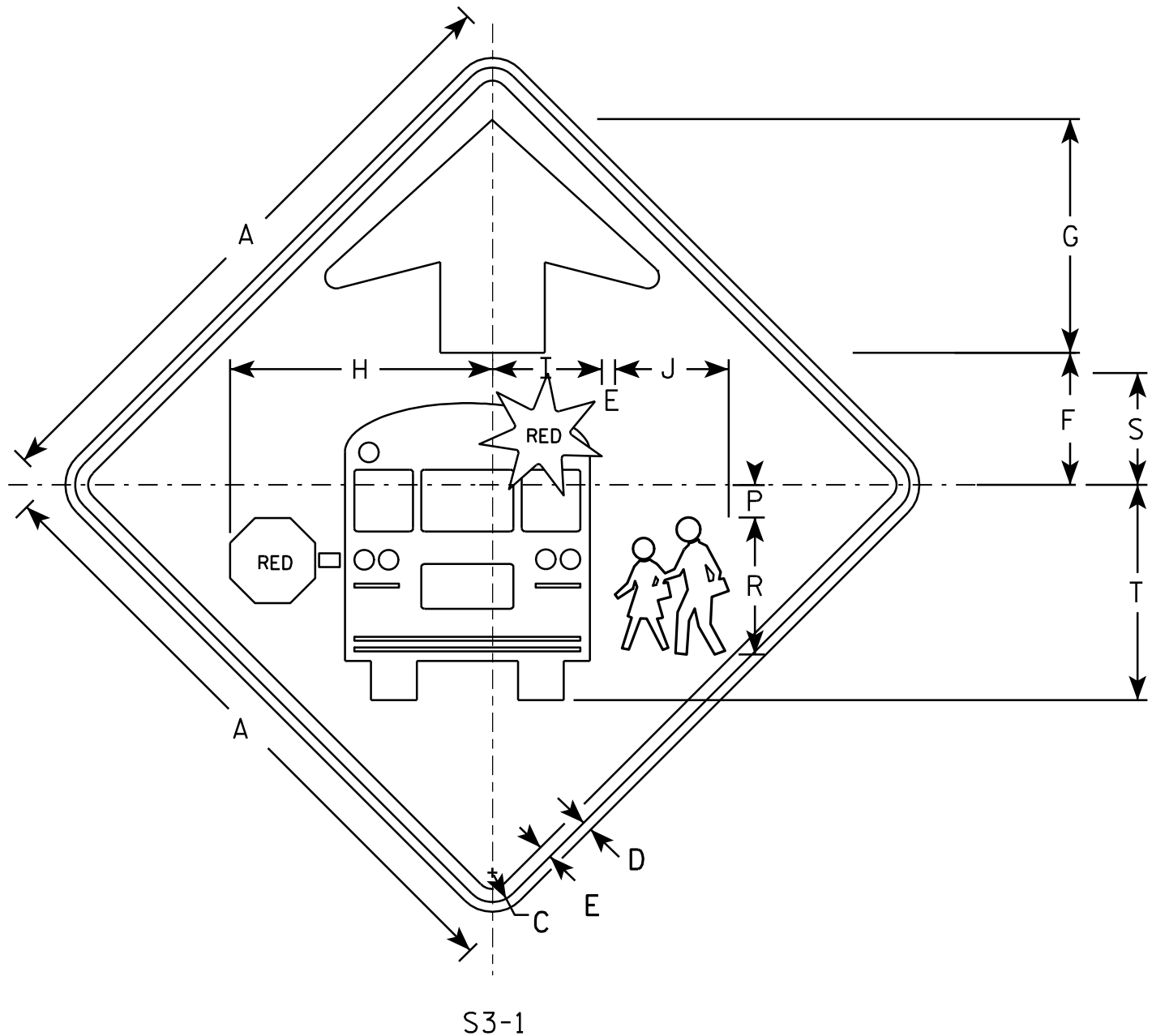
STANDARD SIGN
R4-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-2.6

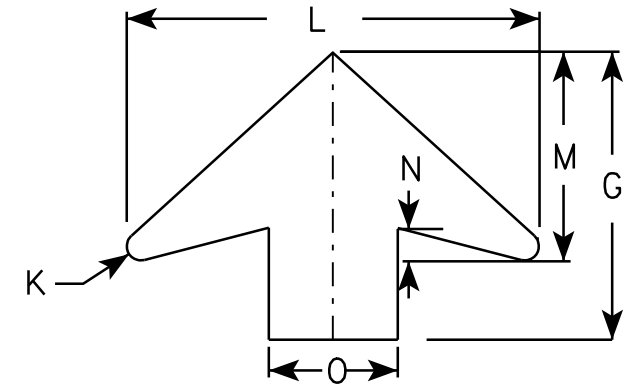
PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: _____ E



S3-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
 Background - YELLOW-GREEN
 Message - BLACK except as noted
 Circles except PEDS- RED BACKGROUND
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.



ARROW DETAIL

7

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	12 1/2	5 1/4	5 1/2	1/2	16	8	1 1/4	5	1 1/2		6 5/8	5 3/8	10 3/8							6.25
2	36		1 5/8	5/8	3/4	7 1/2	13 1/2	15 1/8	6 1/4	6 1/2	5/8	19 1/4	9 3/4	1 5/8	6	1 7/8		7 1/8	6 3/8	12 3/8							9.0
3	48		2 1/4	3/4	1	10	17 7/8	20 1/8	8 3/8	8 3/4	7/8	25 5/8	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
4	48		2 1/4	3/4	1	10	17 7/8	20 1/8	8 3/8	8 3/4	7/8	25 5/8	13	2	8	2 1/2		10 1/2	8 1/2	16 1/2							16.0
5																											

STANDARD SIGN
S3-1

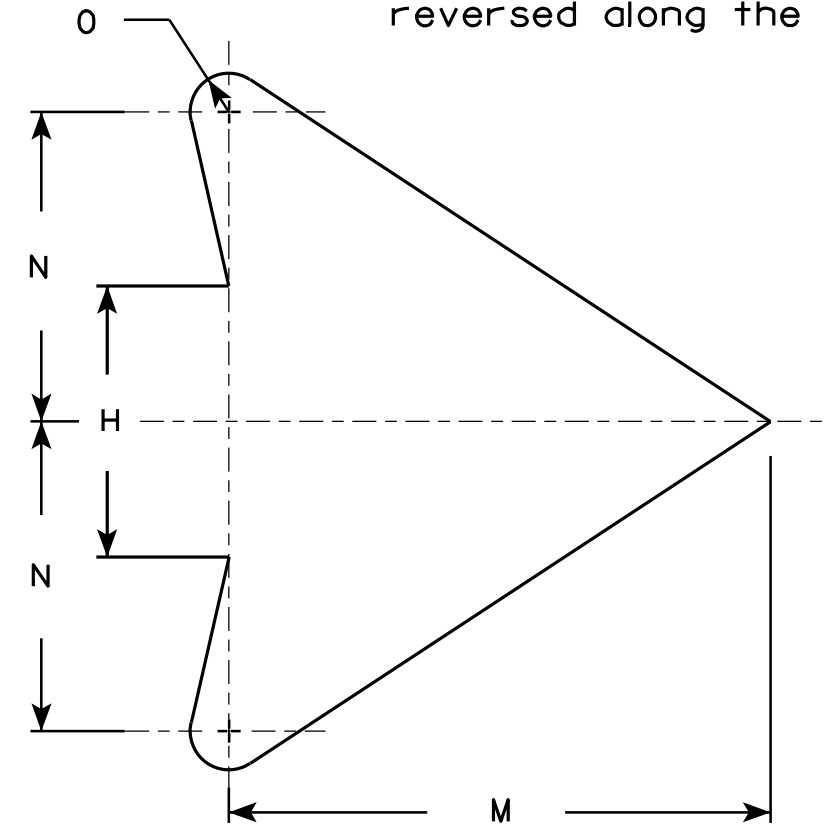
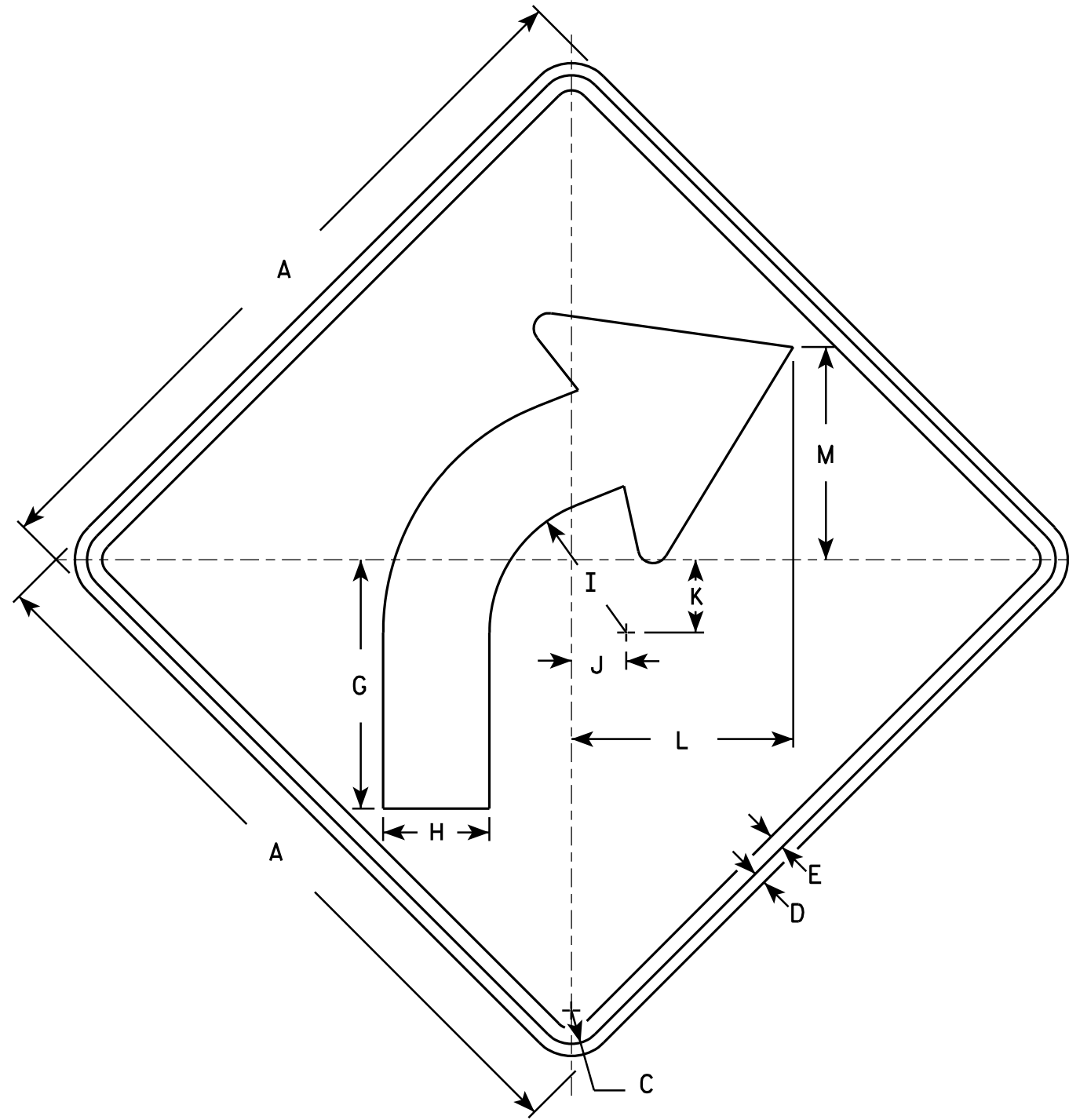
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 6/8/10 PLATE NO. S3-1.6

NOTES

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. 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. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



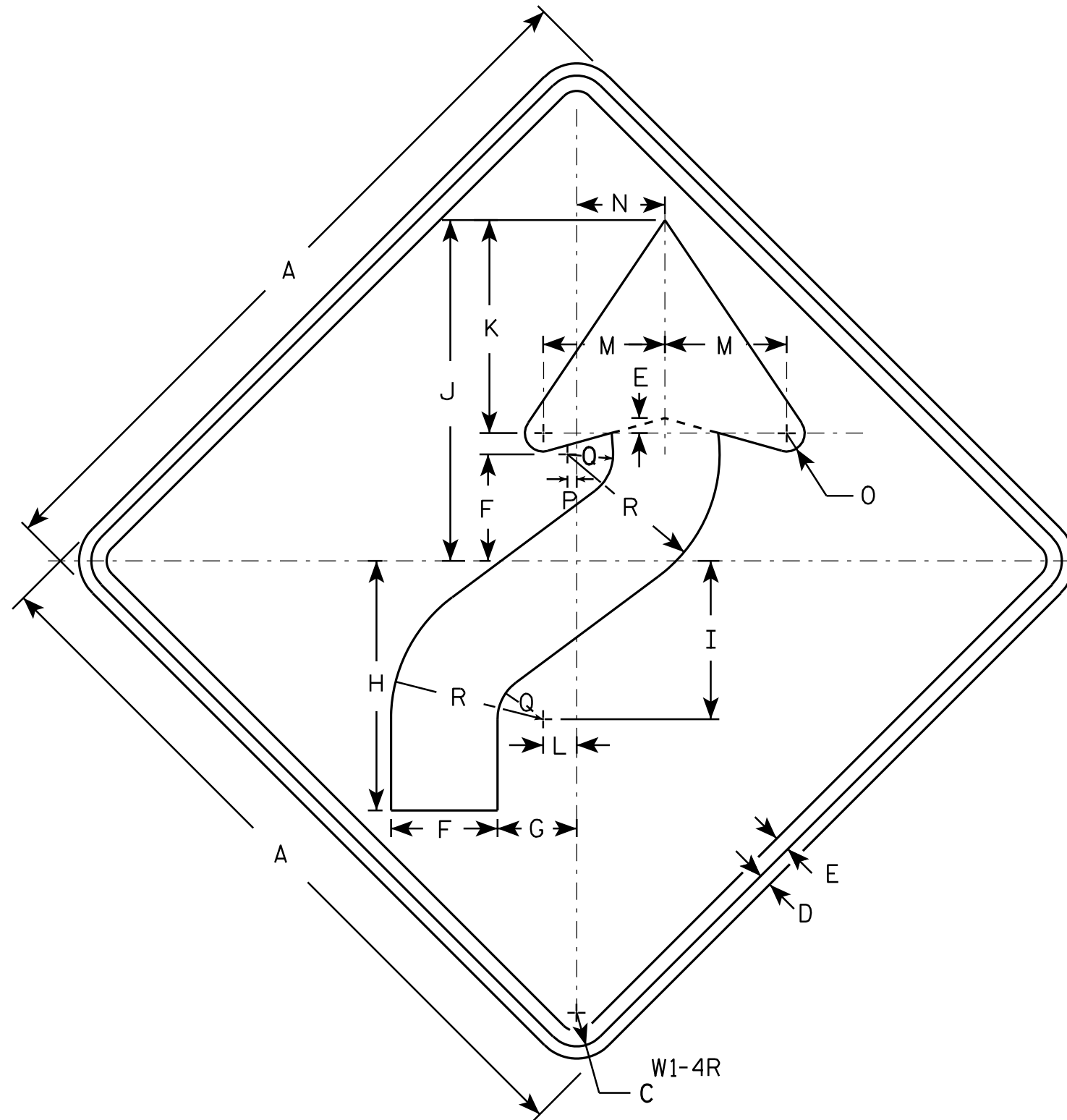
ARROW DETAIL

W1-2R

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

**STANDARD SIGN
W1-2**

WISCONSIN DEPT OF TRANSPORTATION
 APPROVED *Matthew R. Rauch*
 For State Traffic Engineer
 DATE 5/15/12 PLATE NO. W1-2.10



NOTES

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. 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. W1-4L is the same as W1-4R except the arrow is reversed along the vertical centerline.

7

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	3 1/2	2 5/8	8 1/4	5 1/4	11 1/4	7	1 1/8	4	3	5/8	1/4	1 1/2	5									4.0
2S	30		1 3/8	1/2	5/8	4 3/8	3 1/4	10 1/4	6 1/2	14	8 3/4	1 3/8	5	3 5/8	3/4	3/8	1 7/8	6 1/4									6.25
2M	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
3	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
4	36		1 5/8	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
5	48		2 1/4	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

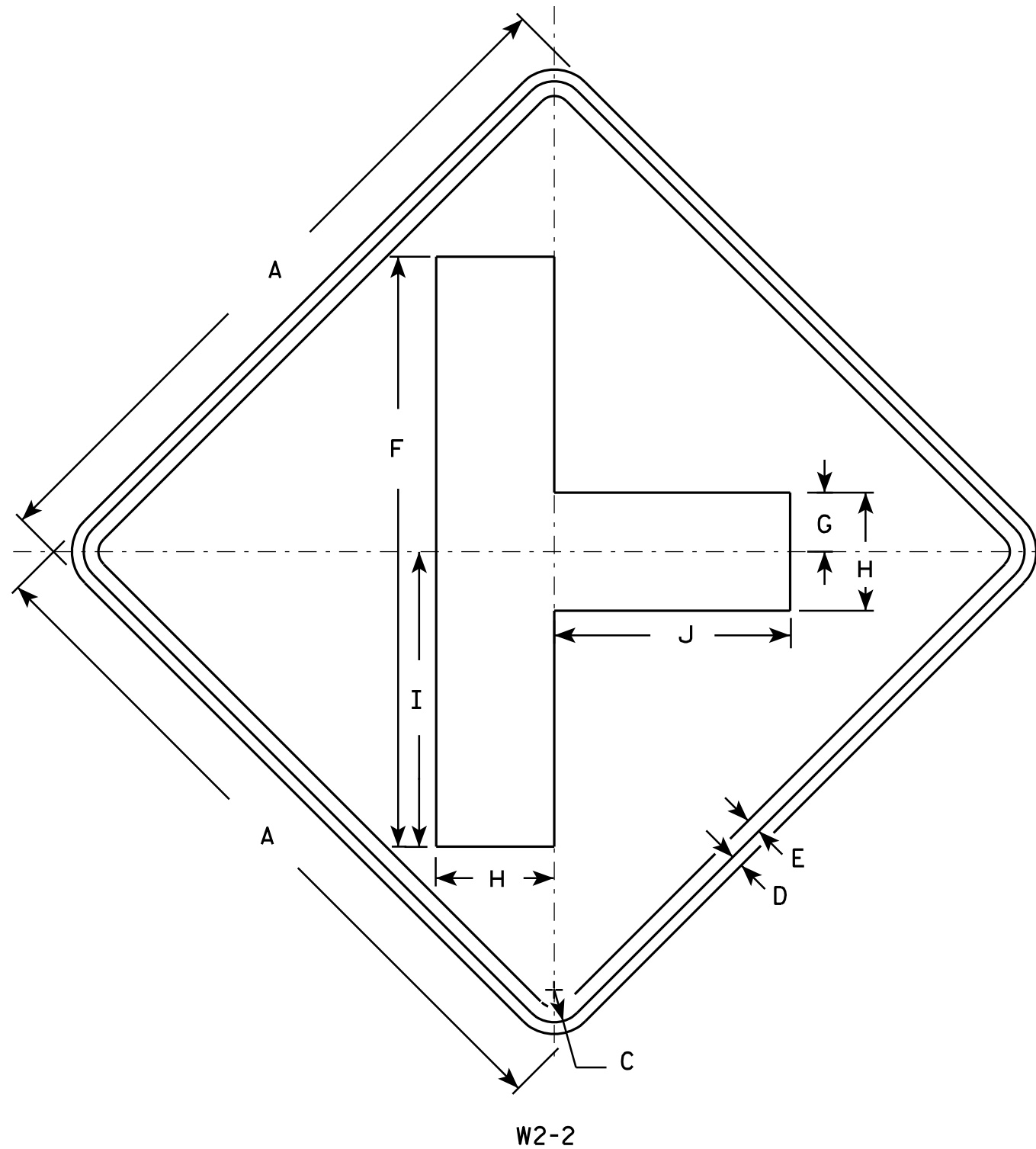
STANDARD SIGN
W1-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Raub*
for State Traffic Engineer

DATE 5/17/12 PLATE NO. W1-4.11

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: _____ E



NOTES

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. 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.

7

7

W2-2

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	20	2	4	10	8																	4.0
2S	30		1 3/8	1/2	5/8	25	2 1/2	5	12 1/2	10																	6.25
2M	30		1 3/8	1/2	5/8	25	2 1/2	5	12 1/2	10																	6.25
3	36		1 5/8	5/8	3/4	30	3	6	15	12																	9.0
4	48		2 1/4	3/4	1	40	4	8	20	16																	16.0
5																											

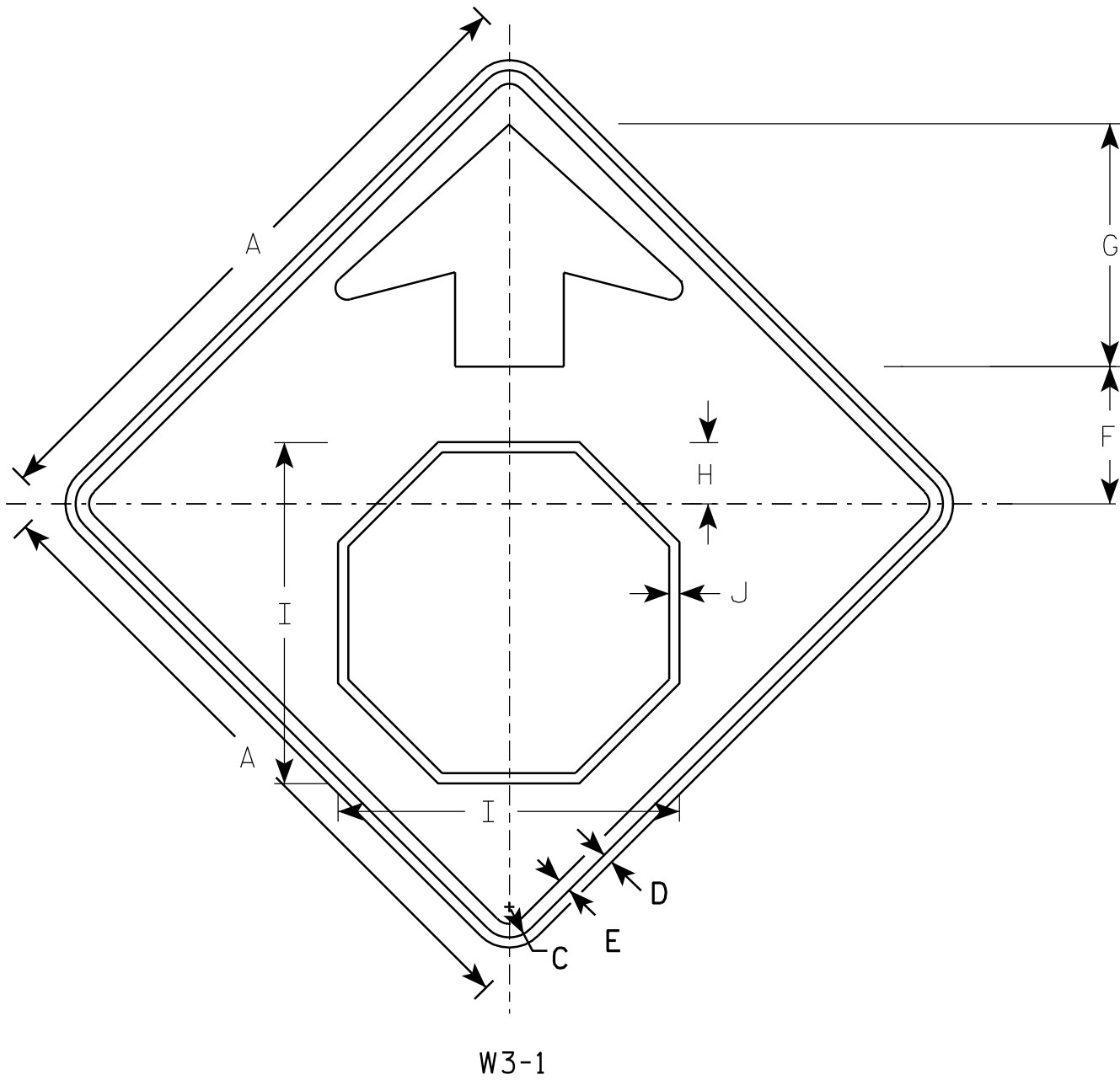
STANDARD SIGN
W2-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

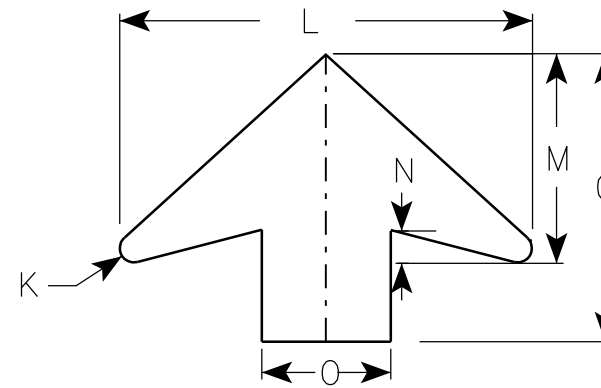
DATE 5/29/12 PLATE NO. W2-2.6

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: **E**



NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
 Background - YELLOW
 Arrow & Border - BLACK
 Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

7

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	2 7/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

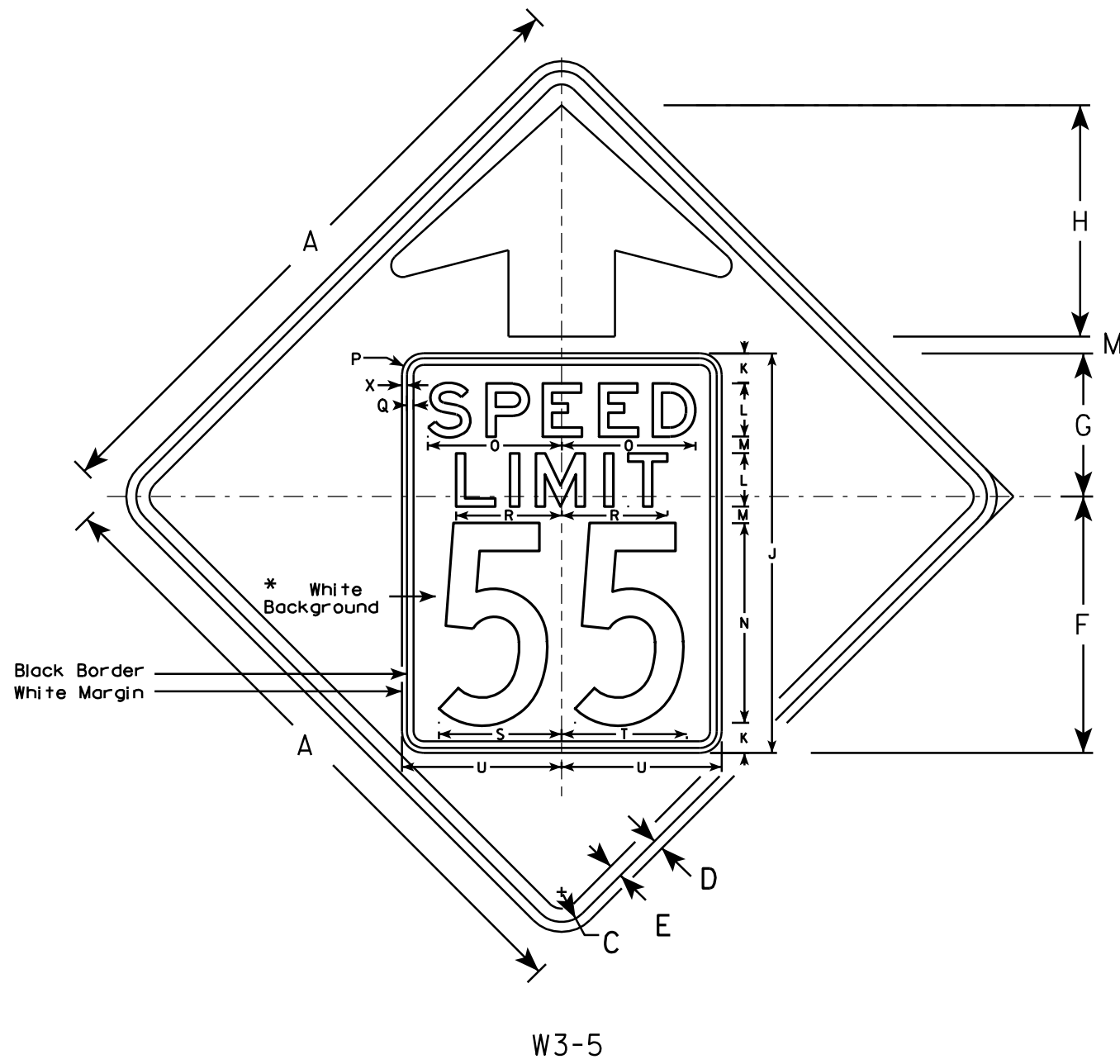
STANDARD SIGN
W3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

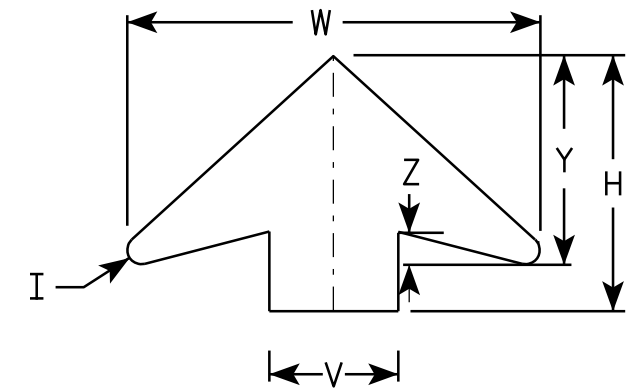
PROJECT NO: _____ SHEET NO: _____ E



NOTES

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 - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

W3-5

7

7

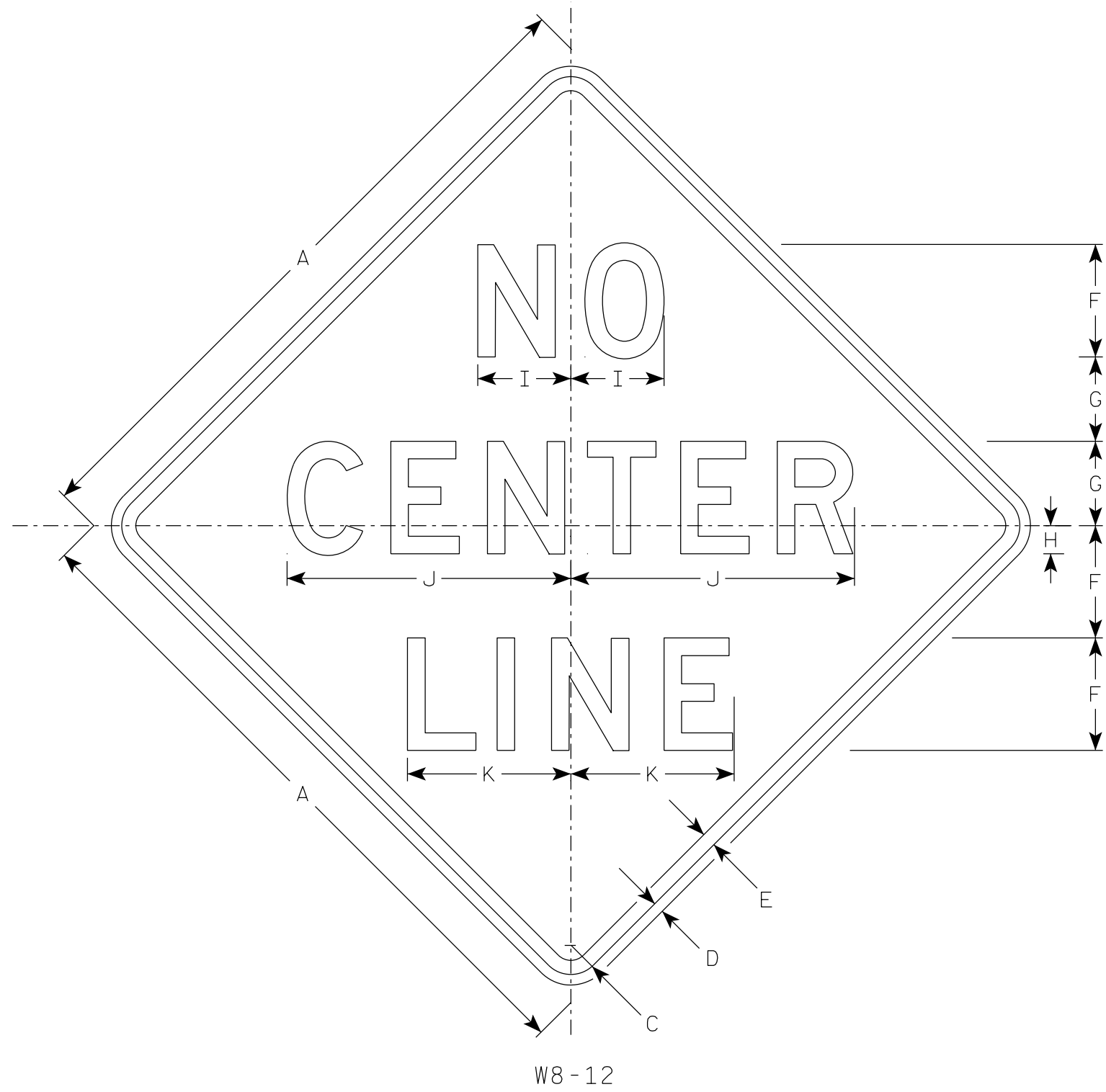
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W3-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W3-5.5



NOTES

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

7

7

W8-12

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	6	4 1/2	1 1/2	5 1/8	16	9																9.0
2S	48		2 1/4	3/4	1	8	6	2	6 5/8	20 1/4	11 5/8																16.0
2M	48		2 1/4	3/4	1	8	6	2	6 5/8	20 1/4	11 5/8																16.0
3	48		2 1/4	3/4	1	8	6	2	6 5/8	20 1/4	11 5/8																16.0
4	48		2 1/4	3/4	1	8	6	2	6 5/8	20 1/4	11 5/8																16.0
5	48		2 1/4	3/4	1	8	6	2	6 5/8	20 1/4	11 5/8																16.0

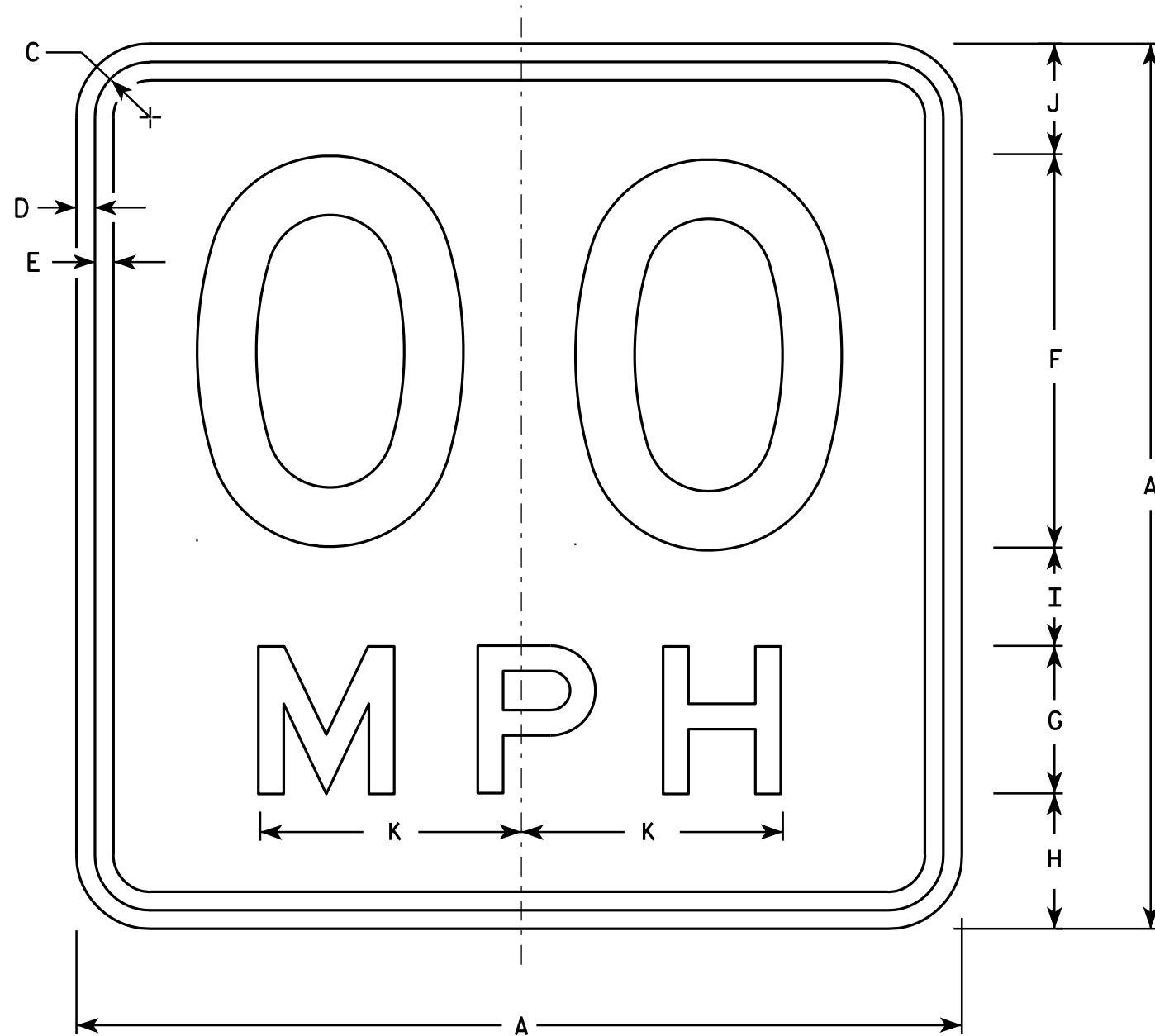
STANDARD SIGN
W8-12

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 4/30/2020 PLATE NO. W8-12.4

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: **E**



NOTES

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 - See Note 6
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 space about centerline to achieve proper balance.
6. Line 1 is Series D
Line 2 is Series E

W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
* 2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
* 2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN

W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

PROJECT NO:

HWY:

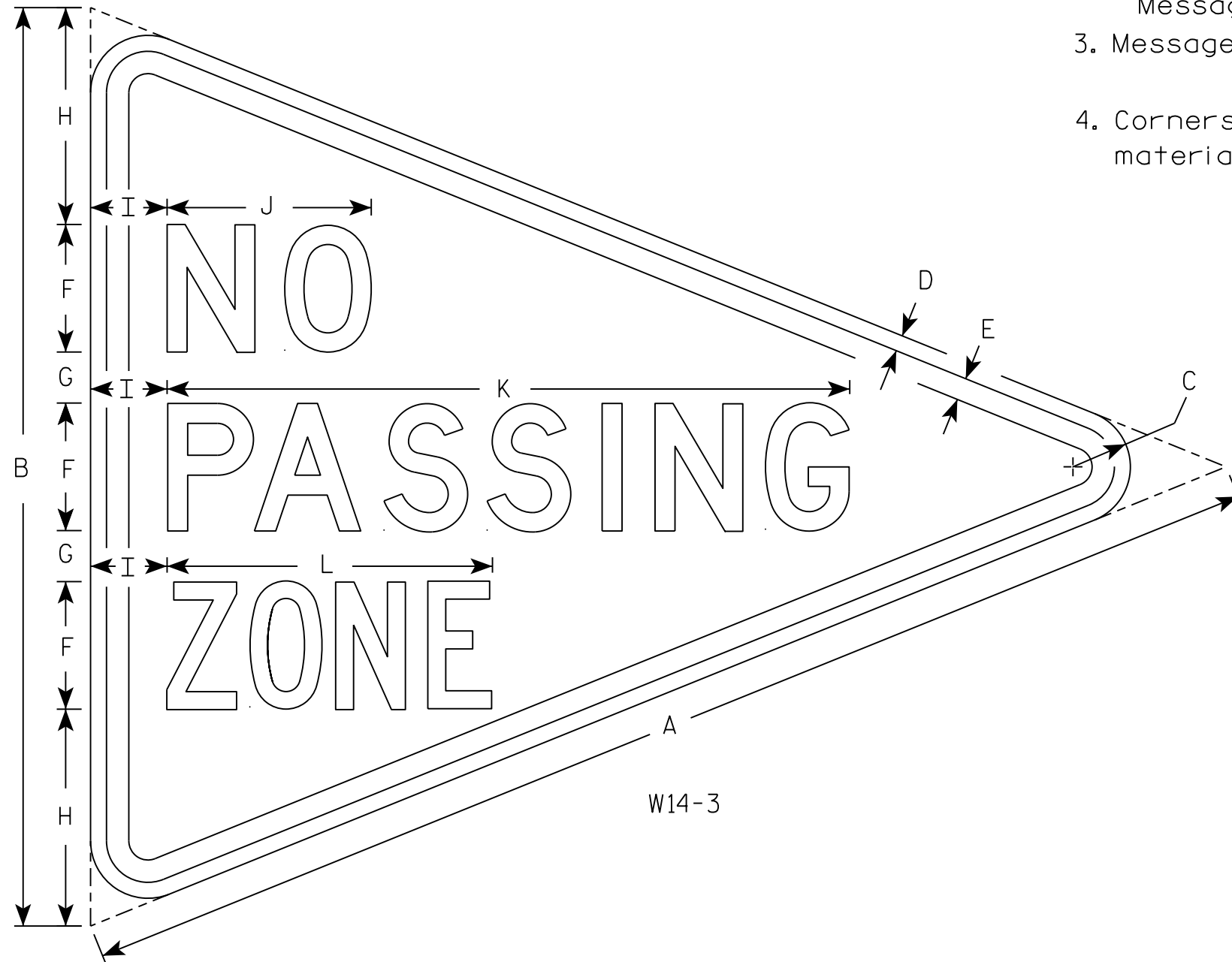
COUNTY:

SHEET NO:

E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
Background - Yellow
Message - Black
3. Message Series - Lines 1 and 2 are Series D.
Line 3 is series C.
4. Corners and borders shall be rounded on all base materials for this sign.



7

7

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

STANDARD SIGN
W14-3

WISCONSIN DEPT OF TRANSPORTATION

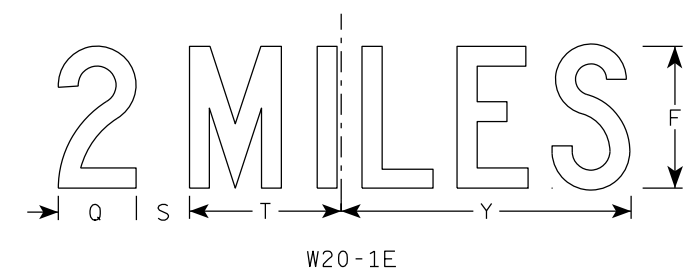
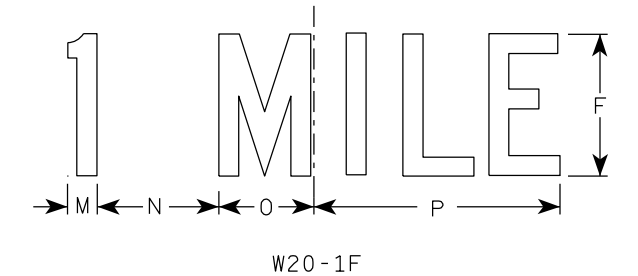
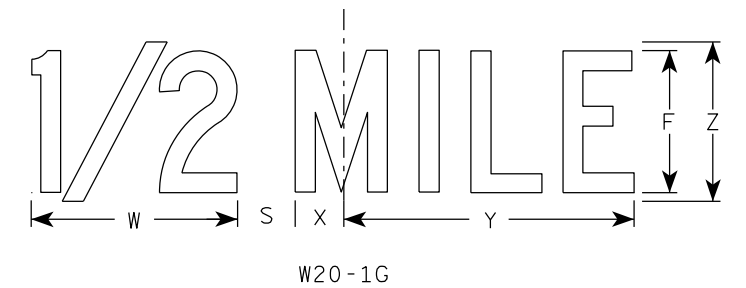
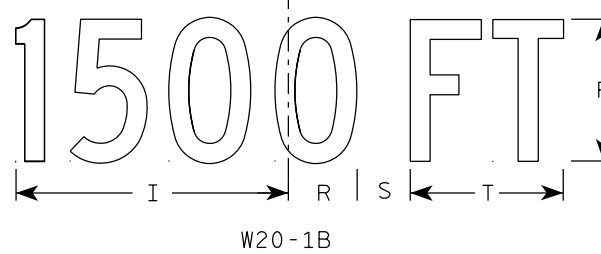
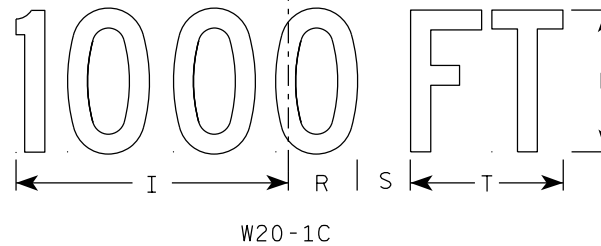
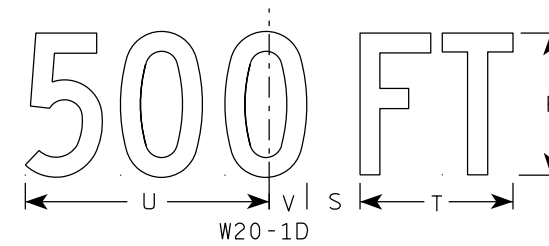
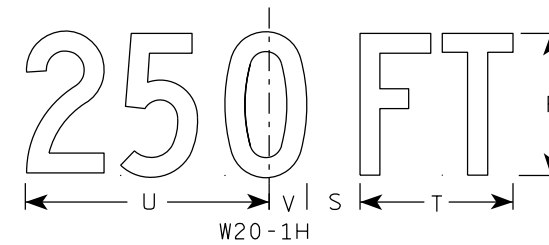
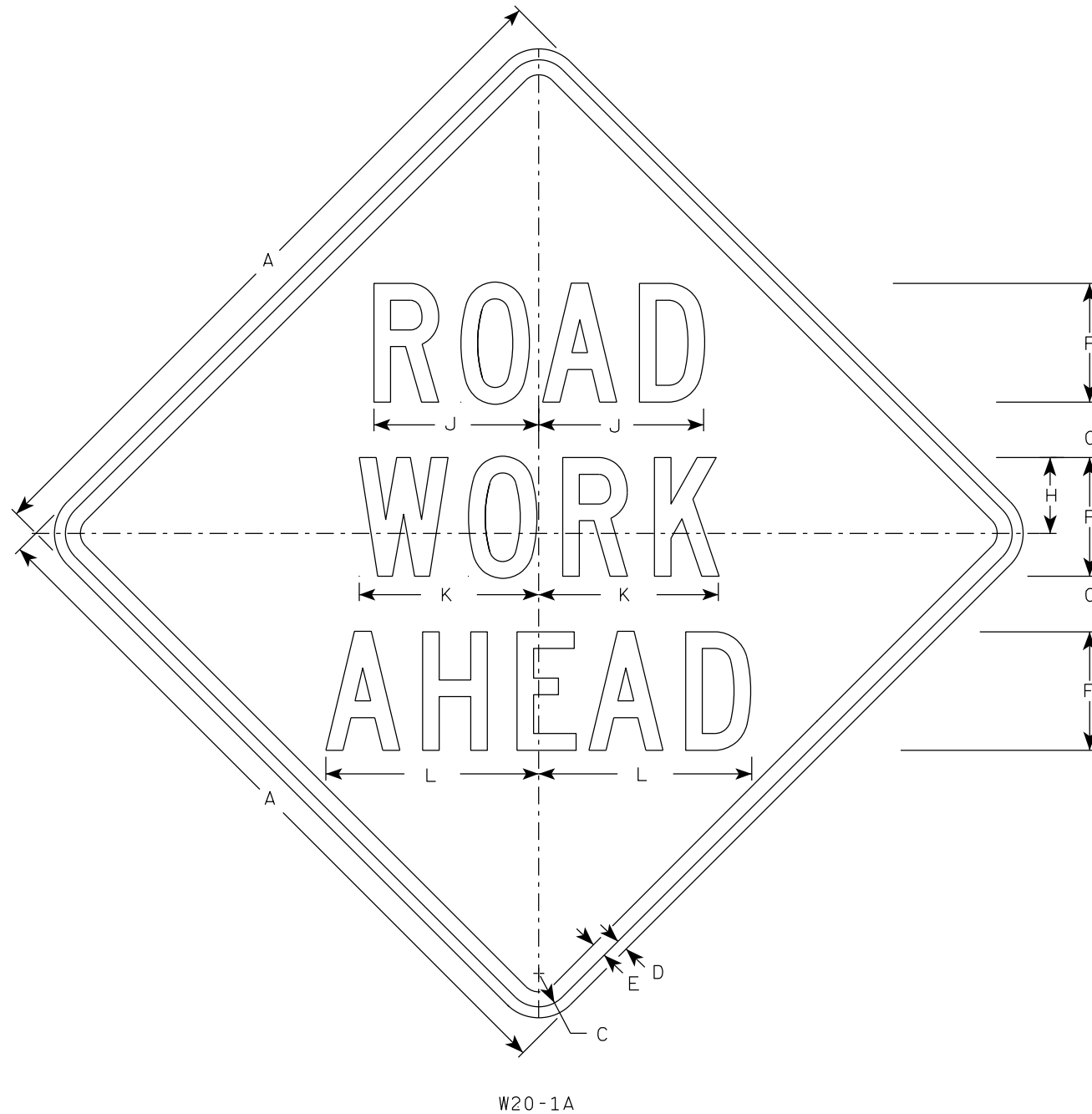
APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 3/21/17 PLATE NO. W14-3.10

PROJECT NO: _____ HWY: _____ COUNTY: _____ SHEET NO: **E**

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
Background - Orange
Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1A

W20-1C

W20-1B

W20-1G

W20-1F

W20-1E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

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

WISCONSIN DEPT OF TRANSPORTATION

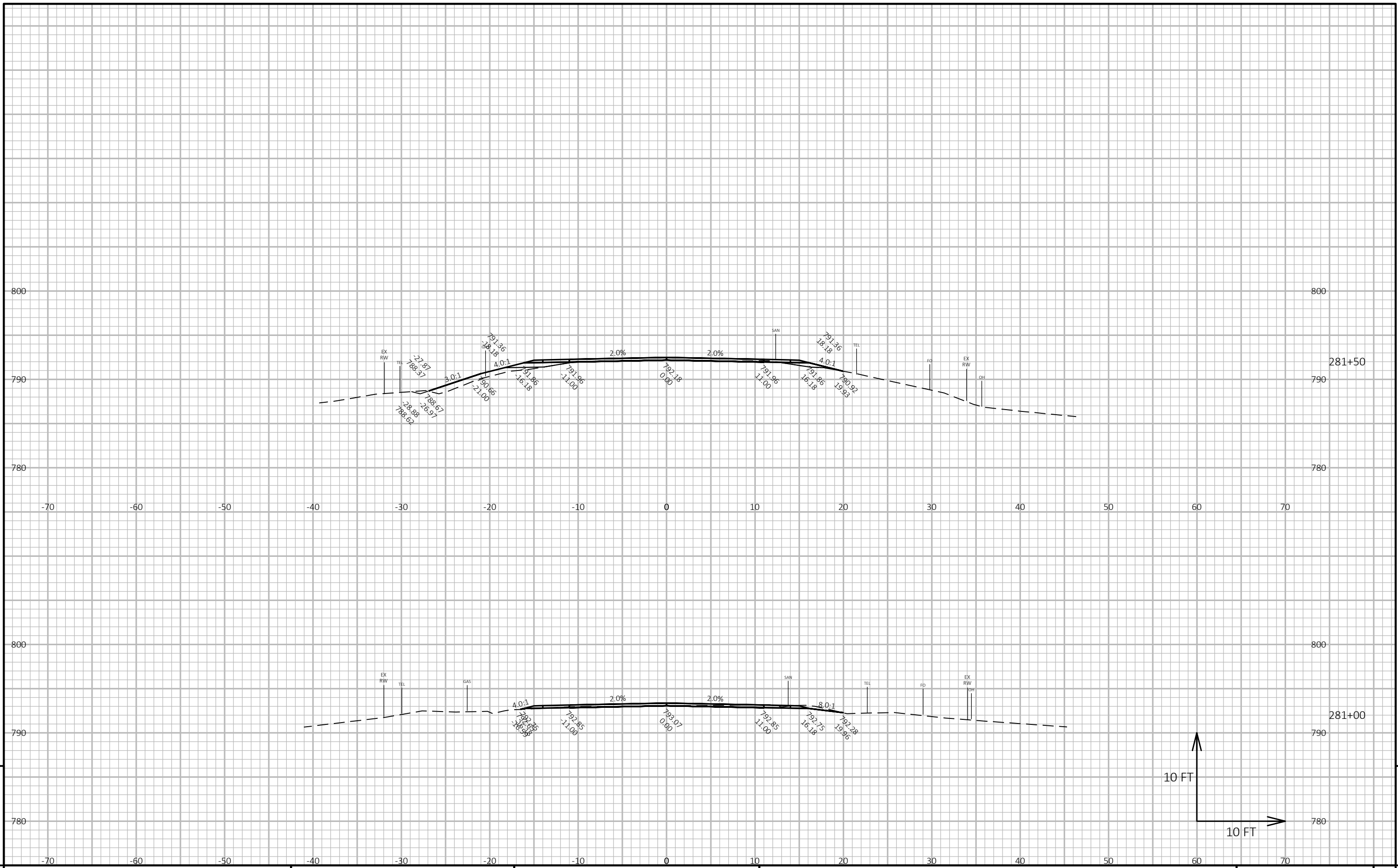
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 3/25/2020 PLATE NO. W20-1.11

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME

Division 1 - AliProf-CTH H

STATION	REAL STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
			CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
281+00	28100.00	0.00	0.97	0.00	0.00	0	0	0	0	0	0
281+50	28150.00	50.00	0.00	0.00	6.39	0	0	12	0	15	-15
282+00	28200.00	50.00	18.14	7.30	1.92	34	14	4	34	19	1
282+50	28250.00	50.00	17.37	7.60	13.78	32	14	26	66	51	-13
283+00	28300.00	50.00	0.00	0.00	23.63	0	0	44	66	106	-68
283+50	28350.00	50.00	0.00	0.00	4.55	0	0	8	66	116	-78
284+00	28400.00	50.00	0.00	0.00	0.00	0	0	0	66	116	-78
						66	28	93			



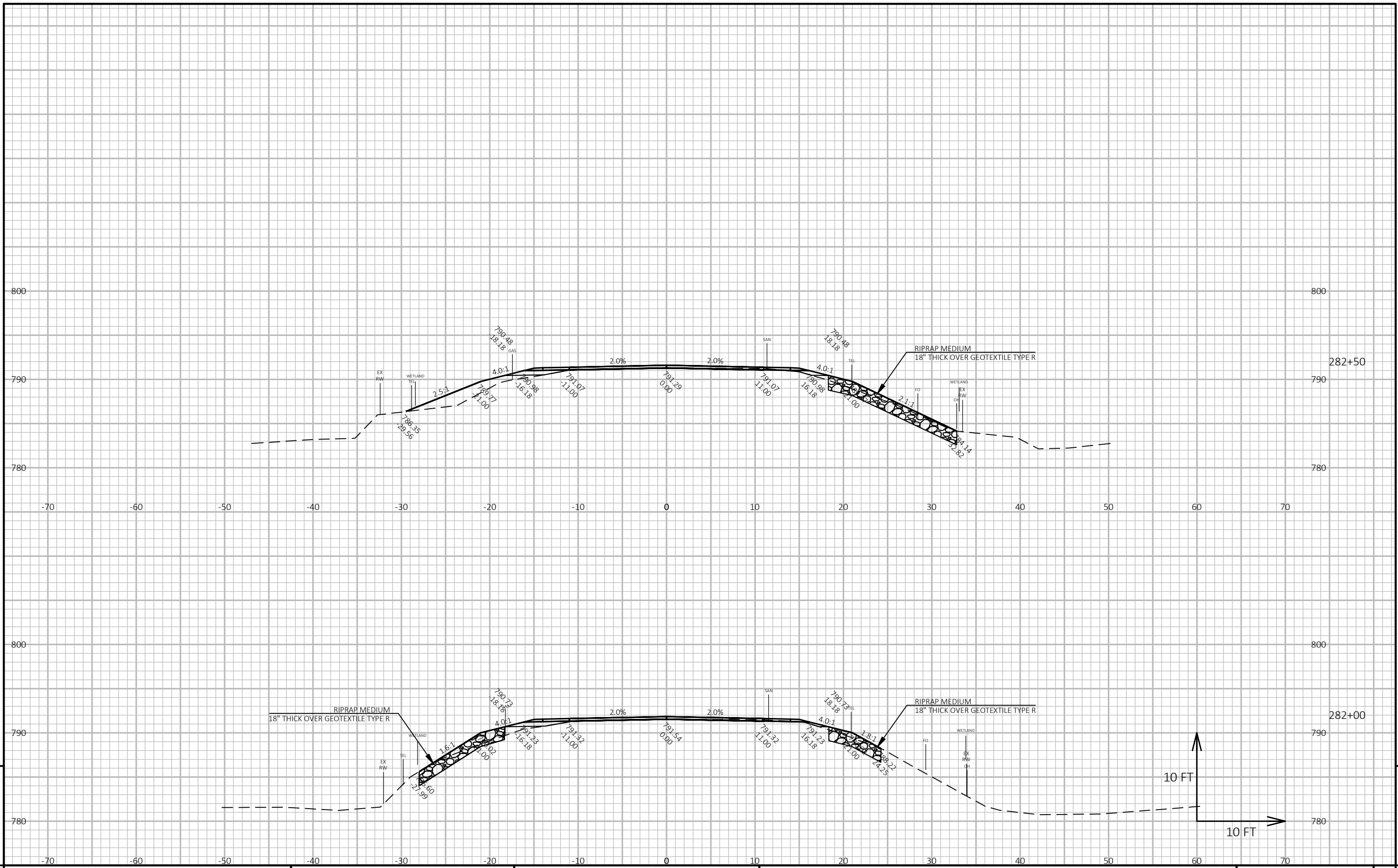
9

9

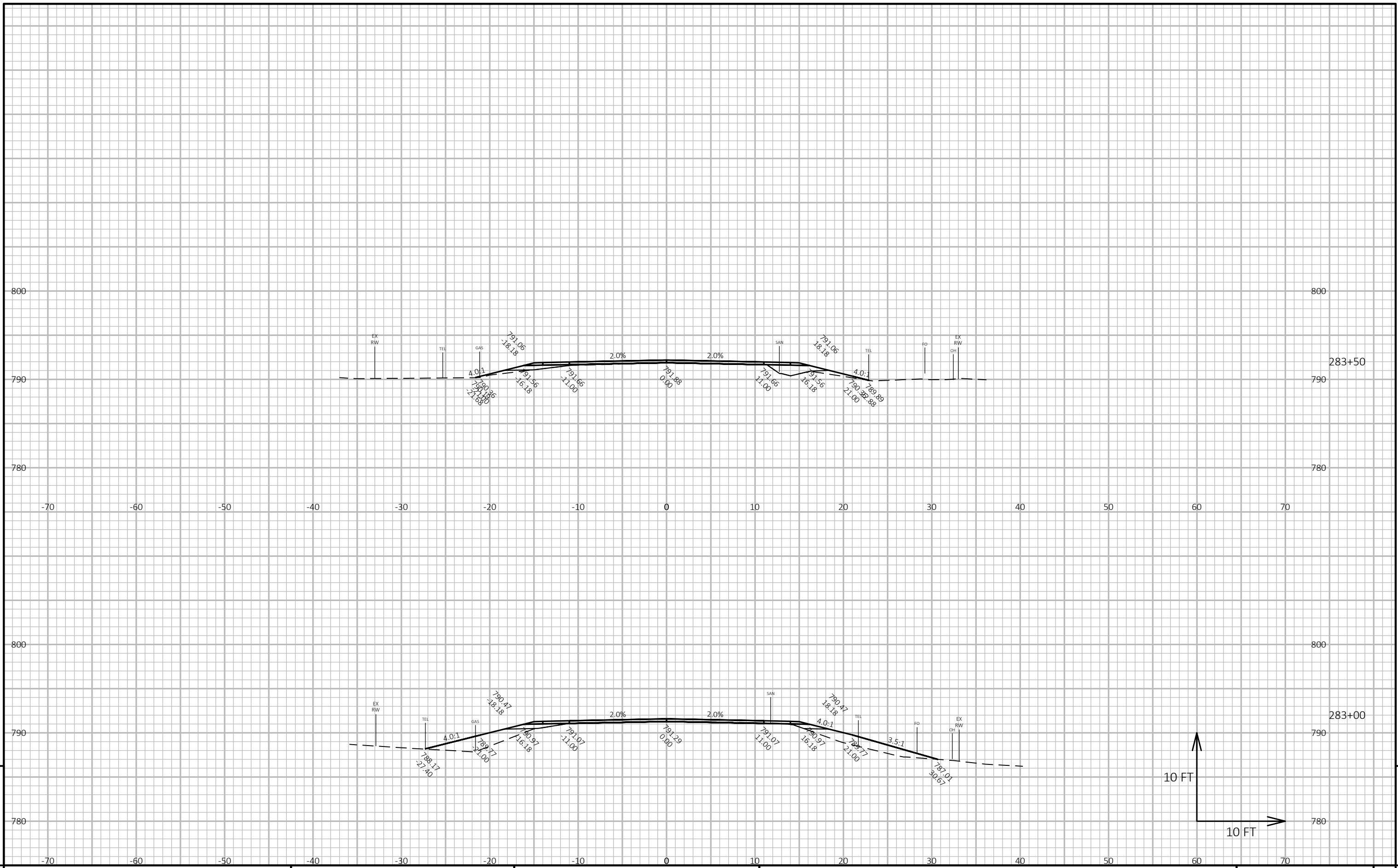
PROJECT NO: 6910-01-71 HWY: CTH H COUNTY: WAUSHARA CROSS SECTIONS: CTH H SHEET E

FILE NAME : P:\73005\73905\7391\07391017\CADD\DESIGN\CORRIDORS\CORRIDOR-CTH H PHASE 2 NO BEAMGUARD.DWG PLOT DATE : 2/26/2020 2:02 PM PLOT BY : BOBBI MAXWELL PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - Section Sheet - (1)



PROJECT NO: 6910-01-71	HWY: CTH H	COUNTY: WAUSHARA	CROSS SECTIONS: CTH H	SHEET E
------------------------	------------	------------------	-----------------------	---------



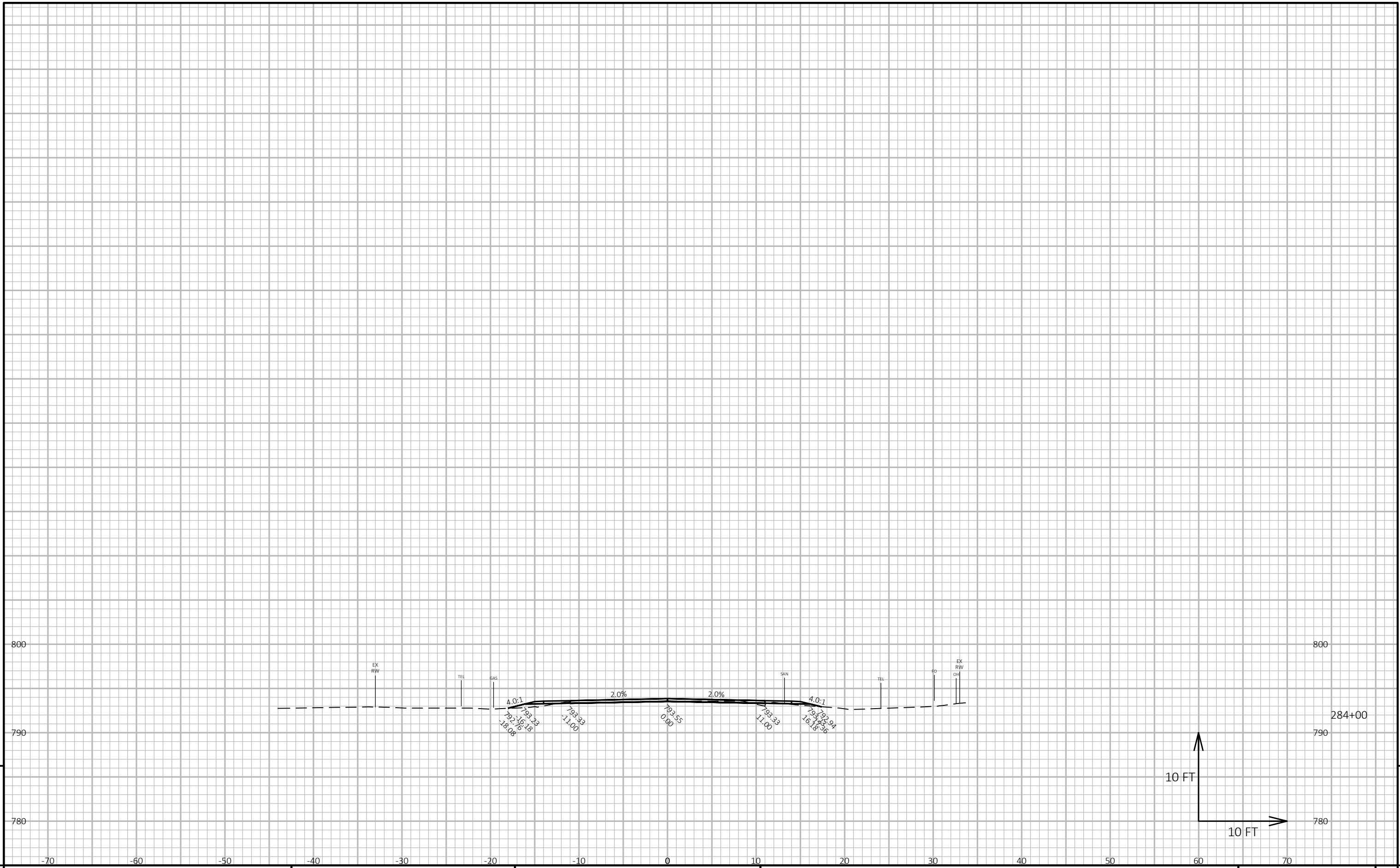
9

9

PROJECT NO: 6910-01-71 HWY: CTH H COUNTY: WAUSHARA CROSS SECTIONS: CTH H SHEET E

FILE NAME : P:\73005\73905\7391\07391017\CADD\DESIGN\CORRIDORS\CORRIDOR-CTH H PHASE 2 NO BEAMGUARD.DWG PLOT DATE : 2/26/2020 2:02 PM PLOT BY : BOBBI MAXWELL PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - Section Sheet - (3)



9

9

PROJECT NO: 6910-01-71 HWY: CTH H COUNTY: WAUSHARA CROSS SECTIONS: CTH H SHEET E

FILE NAME : P:\73005\73905\7391\07391017\CADD\DESIGN\CORRIDORS\CORRIDOR-CTH H PHASE 2 NO BEAMGUARD.DWG PLOT DATE : 2/26/2020 2:02 PM PLOT BY : BOBBI MAXWELL PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT. WISDOT/CADD SHEET 49

LAYOUT NAME - Section Sheet - (4)

Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

<http://www.dot.wisconsin.gov>