

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

TOTAL SHEETS = 68



DESIGN DESIGNATION

A.A.D.T. 2009	=	5,200
A.A.D.T. 2034	=	6,900
D.H.V. 2034	=	505
D.D.	=	61.39
T.	=	11.1
DESIGN SPEED	=	60 MPH
ESALS	=	1,576,800

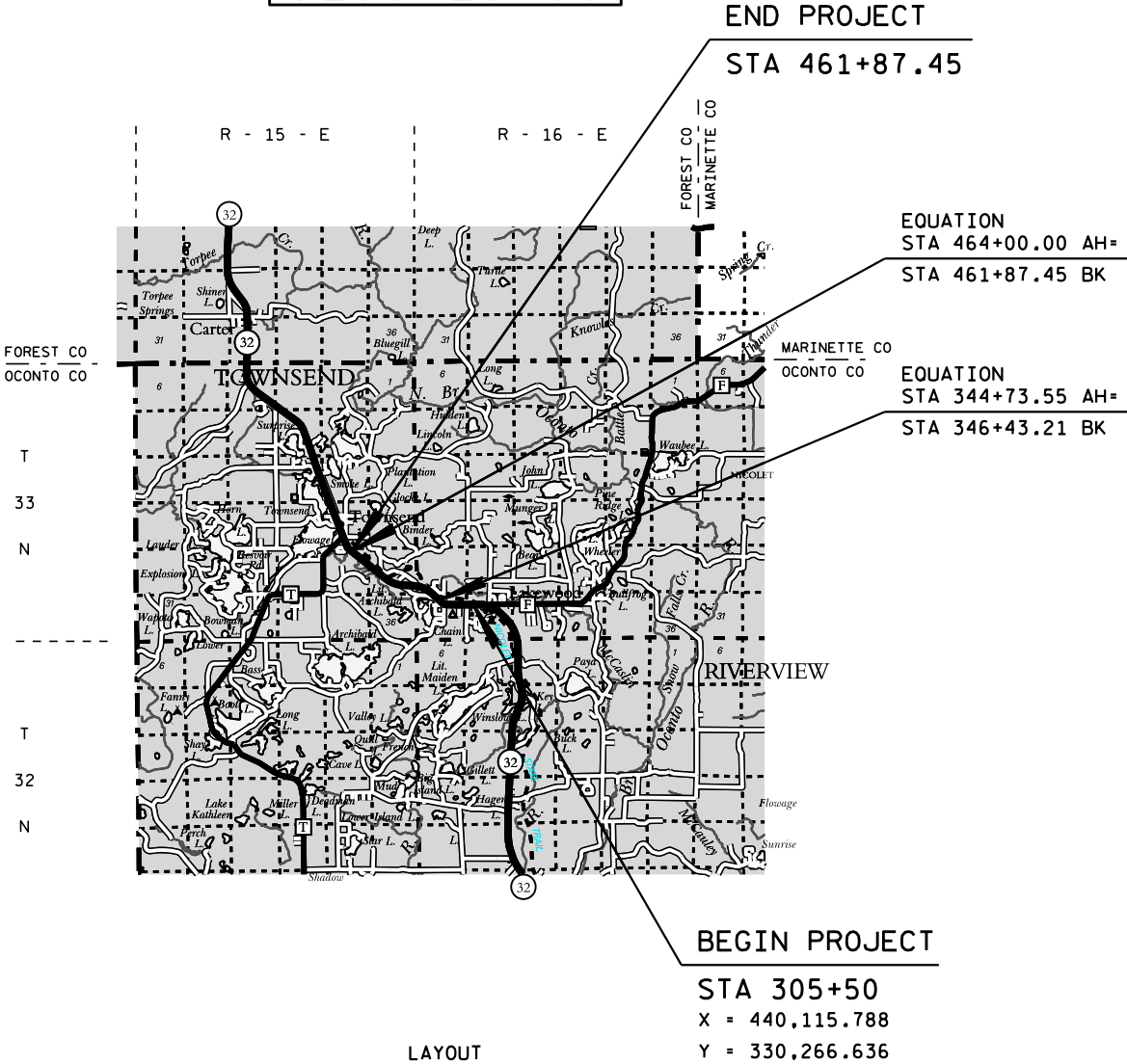
CONVENTIONAL SYMBOLS

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	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
PREVENTATIVE MAINTENANCE PROJECT
LAKEWOOD - TOWNSEND
BIG HILL ROAD - BOBCAT LANE
STH 32
OCONTO COUNTY

STATE PROJECT NUMBER
9190-19-60



END PROJECT
STA 461+87.45

EQUATION
STA 464+00.00 AH=
STA 461+87.45 BK

EQUATION
STA 344+73.55 AH=
STA 346+43.21 BK

BEGIN PROJECT
STA 305+50
X = 440,115.788
Y = 330,266.636

LAYOUT
SCALE 0 2 MI.

TOTAL NET LENGTH OF CENTERLINE = 2.985 MI.

ALL COORDINATES AND DATUMS ARE ASSUMED.
ALIGNMENT DATA IS BASED ON AS-BUILTS WITHOUT ANY FIELD
SURVEY DATA AND IS TO BE USED FOR REFERENCE ONLY.

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
9190-19-60	WISC 2013280	1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	
Surveyor	WISDOT NE REGION
Designer	B. A. FECHHELM
Project Manager	P. R. ZOELLNER
Regional Examiner	
Regional Supervisor	D. J. SEGERSTROM
C.O. Examiner	

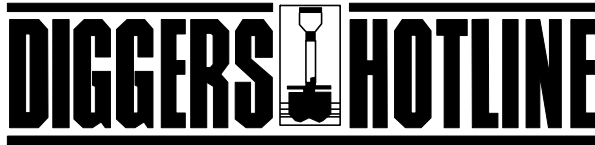
APPROVED FOR THE DEPARTMENT
DATE: 2-1-2013

UTILITIES

RICK KLUSSENDORF CENTURYLINK COMMUNICATION LINE P.O. BOX 260 WAUSAUKEE, WI 54177 (920) 843-1475	LORIBUTRY WISCONSIN PUBLIC SERVICE CORPORATION ELECTRICITY 700 N ADAMS ST P.O. BOX 19001 GREEN BAY, WI 54307-9001 (920) 433-1703
PAUL MEYERS LAKEWOOD SANITARY DISTRICT SEWER 15280 E FORRESTER RD LAKEWOOD, WI 54138 (715) 276-1830	LORIBUTRY WISCONSIN PUBLIC SERVICE CORPORATION GAS/PETROLEUM 700 N ADAMS ST P.O. BOX 19001 GREEN BAY, WI 54307-9001 (920) 433-1703
CHAD KAY PACKERLAND BROADBAND COMMUNICATION LINE 105 KENT ST IRON MOUNTAIN, MI 49801 (906) 776-2819	

EMERGENCY CONTACT NUMBERS FOR WISCONSIN PUBLIC SERVICE

ELECTRIC 24 HOUR EMERGENCY SERVICE: 1-800-450-7240
GAS 24 HOUR EMERGENCY SERVICE: 1-800-450-7280



Call 811 3 Work Days Before You Dig
or Toll Free (800) 242-8511
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

GENERAL NOTES

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, WILL BE FERTILIZED, SEEDED, AND MULCHED.

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

WHEN THE QUANTITY OF BASE AGGREGATE DENSE ¾-INCH IS MEASURED FOR PAYMENT BY THE TON, THE THICKNESS AS SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION AS DIRECTED BY THE ENGINEER IN THE FIELD.

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

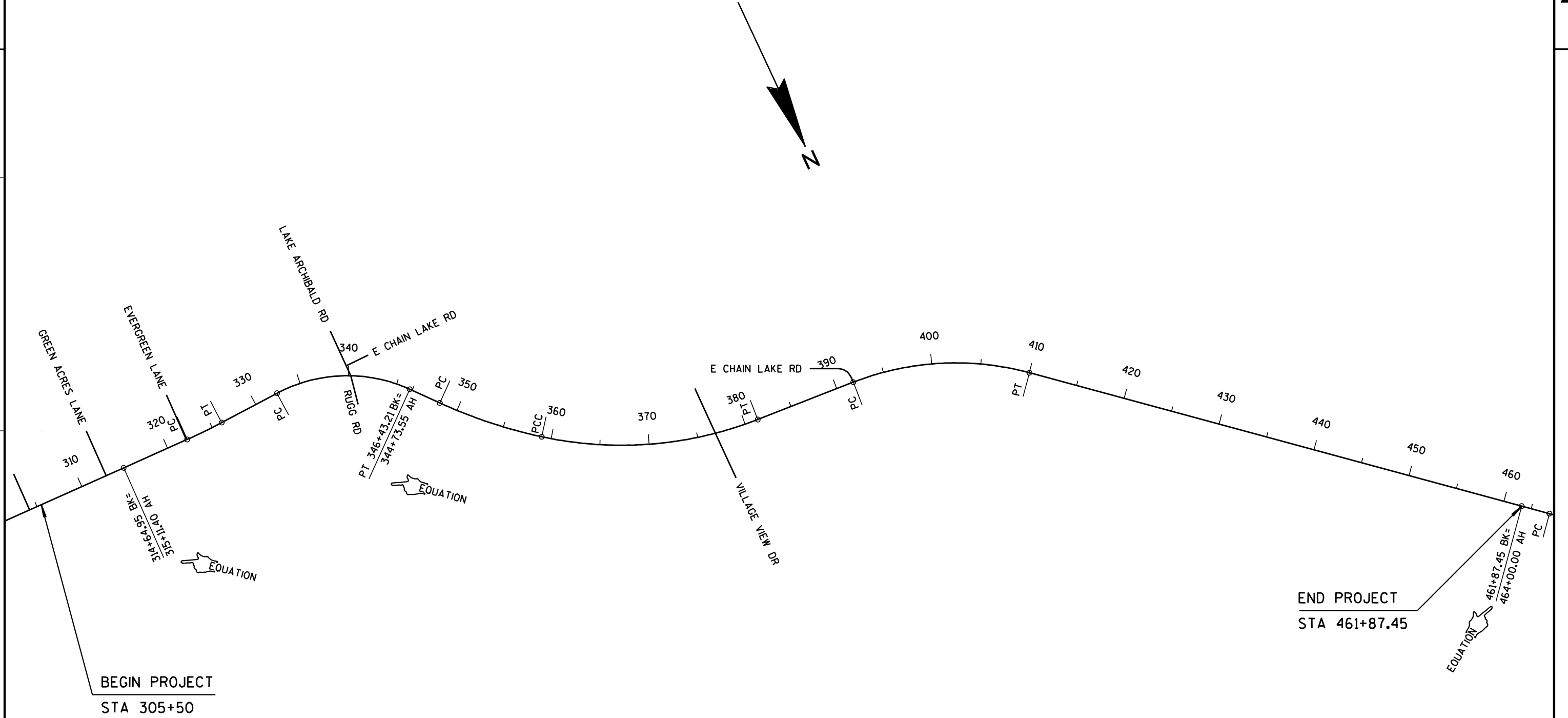
DRIVEWAYS SHALL BE REPLACED IN KIND. BASE AGGREGATE DENSE WILL BE USED UNDER ALL DRIVEWAYS.

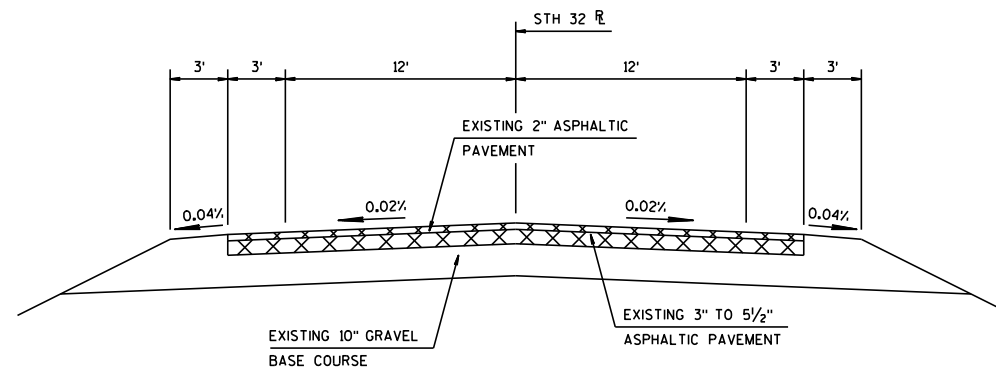
COUNTY SURVEYOR OR SURVEYS CONTACT PERSON

MARK TEUTEBERG - OCONTO COUNTY
OCONTO COUNTY COURT HOUSE
301 WASHINGTON STREET
OCONTO, WI 54153
920-834-6827
mark.teuteberg@co.oconto.wi.us

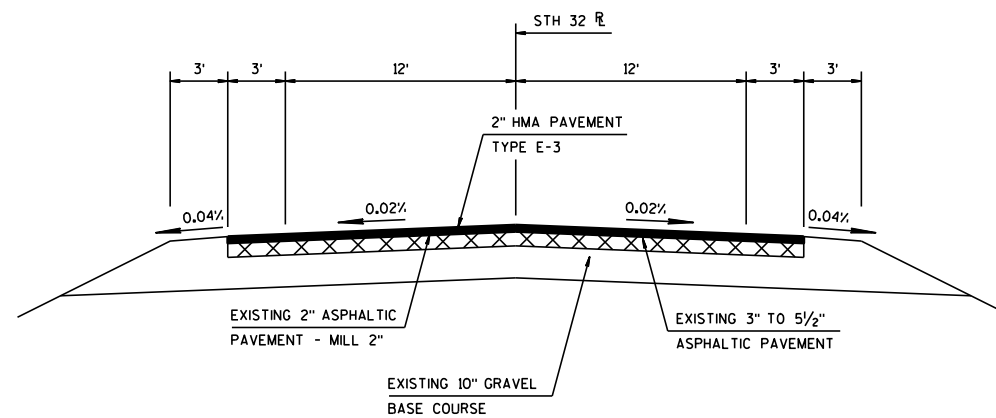
DNR AREA LIAISON

JAMES DOPERALSKI JR
DEPARTMENT OF NATURAL RESOURCES
NORTHEAST REGION
2984 SHAWANO AVE
GREEN BAY, WI 54313
920-662-5119
JAMES.DOPERALSKI@WISCONSIN.GOV

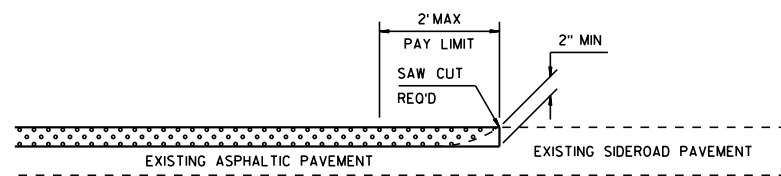




EXISTING TYPICAL CROSS SECTION FOR STH 32
STA 305+50 TO 461+87.45

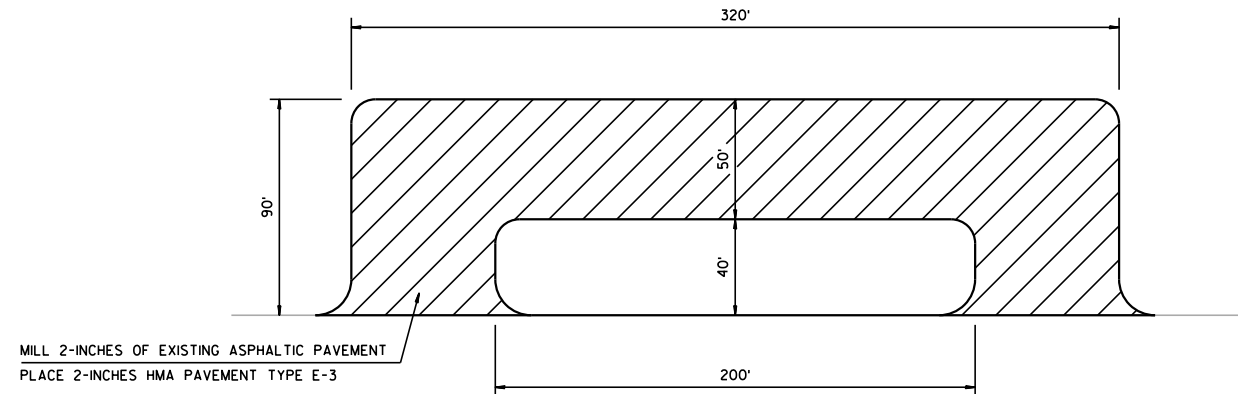


FINISHED TYPICAL CROSS SECTION FOR STH 32
STA 305+50 TO 461+87.45



MILLED ASPHALTIC SURFACE

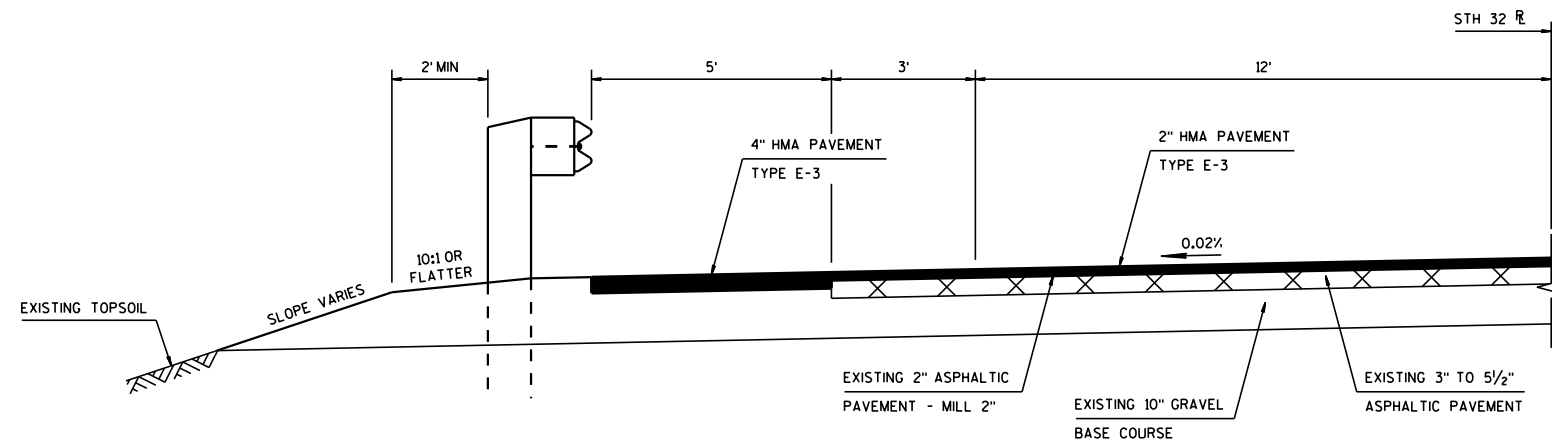
BUTT JOINT DETAIL FOR MILLED ASPHALTIC PAVEMENTS



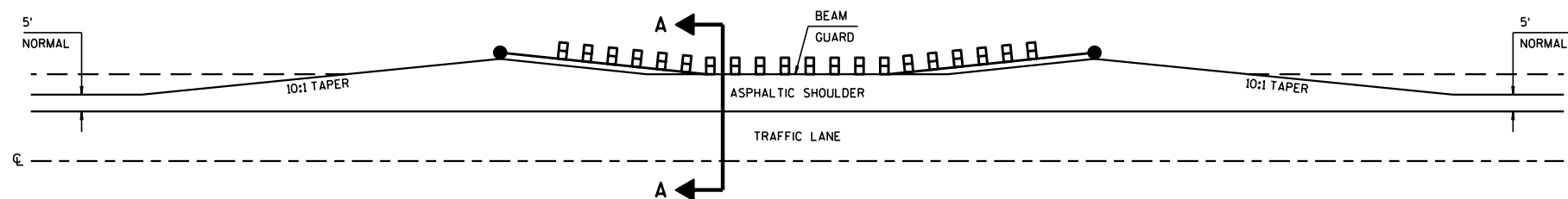
MILL 2-INCHES OF EXISTING ASPHALTIC PAVEMENT
PLACE 2-INCHES HMA PAVEMENT TYPE E-3

SCENIC OVERLOOK PARKING LOT

STA 347+40 TO 350+90 LT

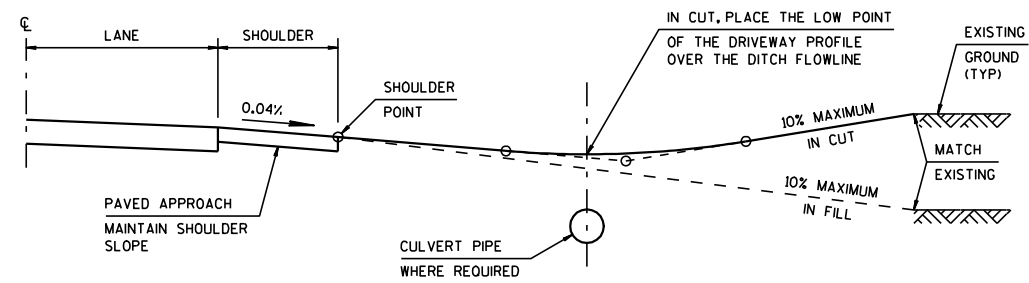


SECTION A-A

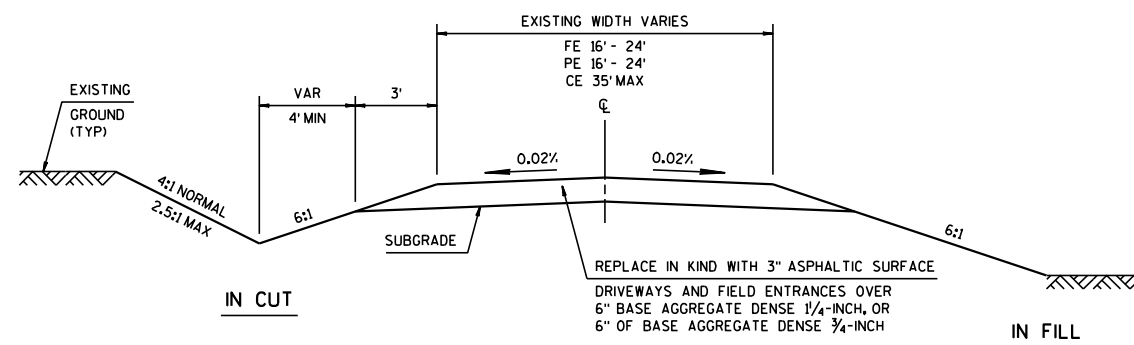


DETAIL FOR ASPHALTIC SHOULDER AT GUARDRAIL

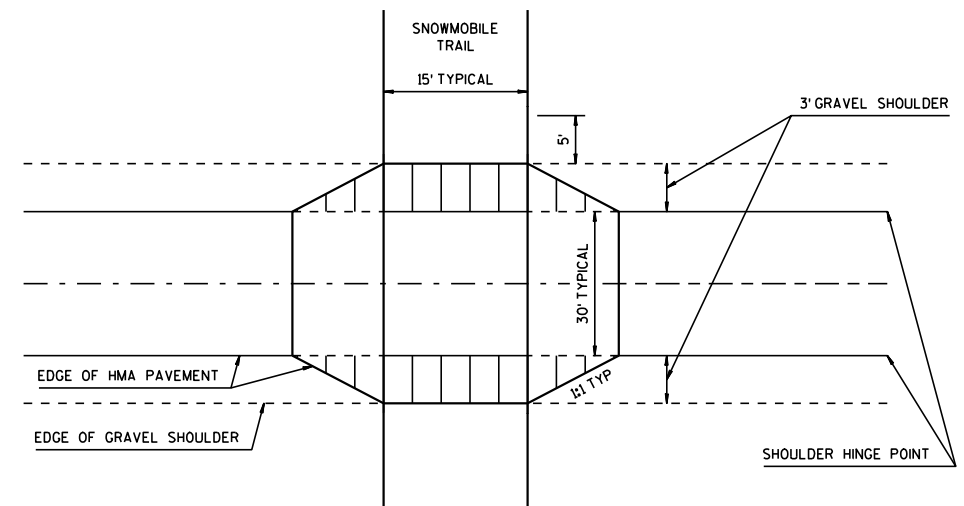
STA 450+00 TO 461+87 LT



TYPICAL DRIVEWAY PROFILES

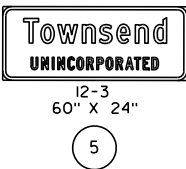
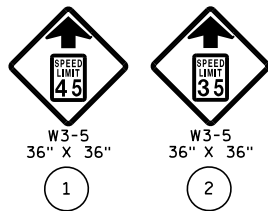


TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE



 HMA PAVEMENT TYPE E-3
 MATCH ADJACENT SHOULDER HMA THICKNESS

SNOWMOBILE TRAIL CROSSING DETAIL
STA 313+00



465

460

455

SIGNING NOTES

THE CONTRACTOR SHALL NOTIFY THE REGIONAL TRAFFIC UNIT, 920-492-5653, A MINIMUM OF TWO WEEKS PRIOR TO THE NEED FOR SIGN PLACEMENT TO ALLOW FOR STAKING OF ANY PERMANENT SIGNING REQUIRED ON THE PROJECT.

TYPE II SIGNS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE REGIONAL TRAFFIC UNIT. SIGNS SHALL BE CAREFULLY REMOVED FROM THE SUPPORTS, SORTED BY BASE MATERIAL AND PALLETIZED BY MATERIAL TYPE. THE REGIONAL TRAFFIC UNIT 920-492-5653, SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF SIGNS.

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.



450

445

440

- SIGN-REMOVE AND REPLACE
- SIGN-REMOVE EXISTING
- SIGN-PLACE NEW
- SIGN-MOVE WITH SUPPORT

SHEET 1 OF 6-TYPE II SIGNING

PLAN SHEET PRODUCED
BY WISDOT-NE REGION

PROJECT NO: 9190-19-60

HWY: STH 32

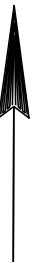
COUNTY: OCONTO

PERMANENT SIGNING - TYPE II

SHEET

E

N



445

440

435

SIGNING NOTES

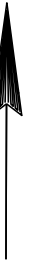
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N



430

425

420





415



W14-3
48" X 36"

7



-  SIGN-REMOVE AND REPLACE
-  SIGN-REMOVE EXISTING
-  SIGN-PLACE NEW
-  SIGN-MOVE WITH SUPPORT

SHEET 2 OF 6-TYPE II SIGNING
PLAN SHEET PRODUCED
BY WISDOT-NE REGION

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N



415

410

405

400





5

5

395

390

385

-  SIGN-REMOVE AND REPLACE
-  SIGN-REMOVE EXISTING
-  SIGN-PLACE NEW
-  SIGN-MOVE WITH SUPPORT

E CHAIN LAKE RD



R1-1
30" X 30"

8



W14-3
48" X 36"

9

SHEET 3 OF 6-TYPE II SIGNING

PLAN SHEET PRODUCED
BY WISDOT-NE REGION



SP
36" X 36"

10

PROJECT NO: 9190-19-60

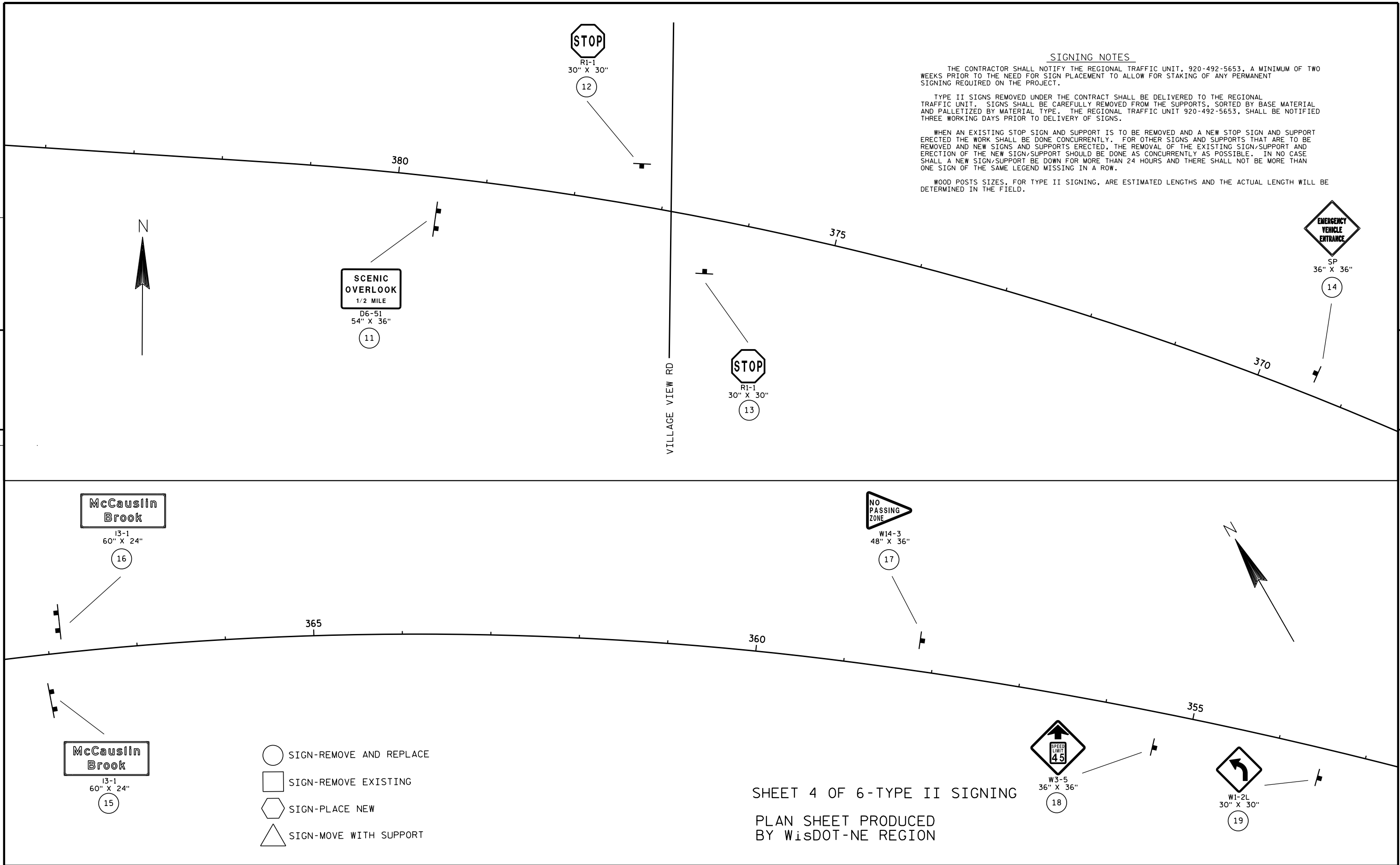
HWY: STH 32

COUNTY: OCONTO

PERMANENT SIGNING - TYPE II

SHEET

E



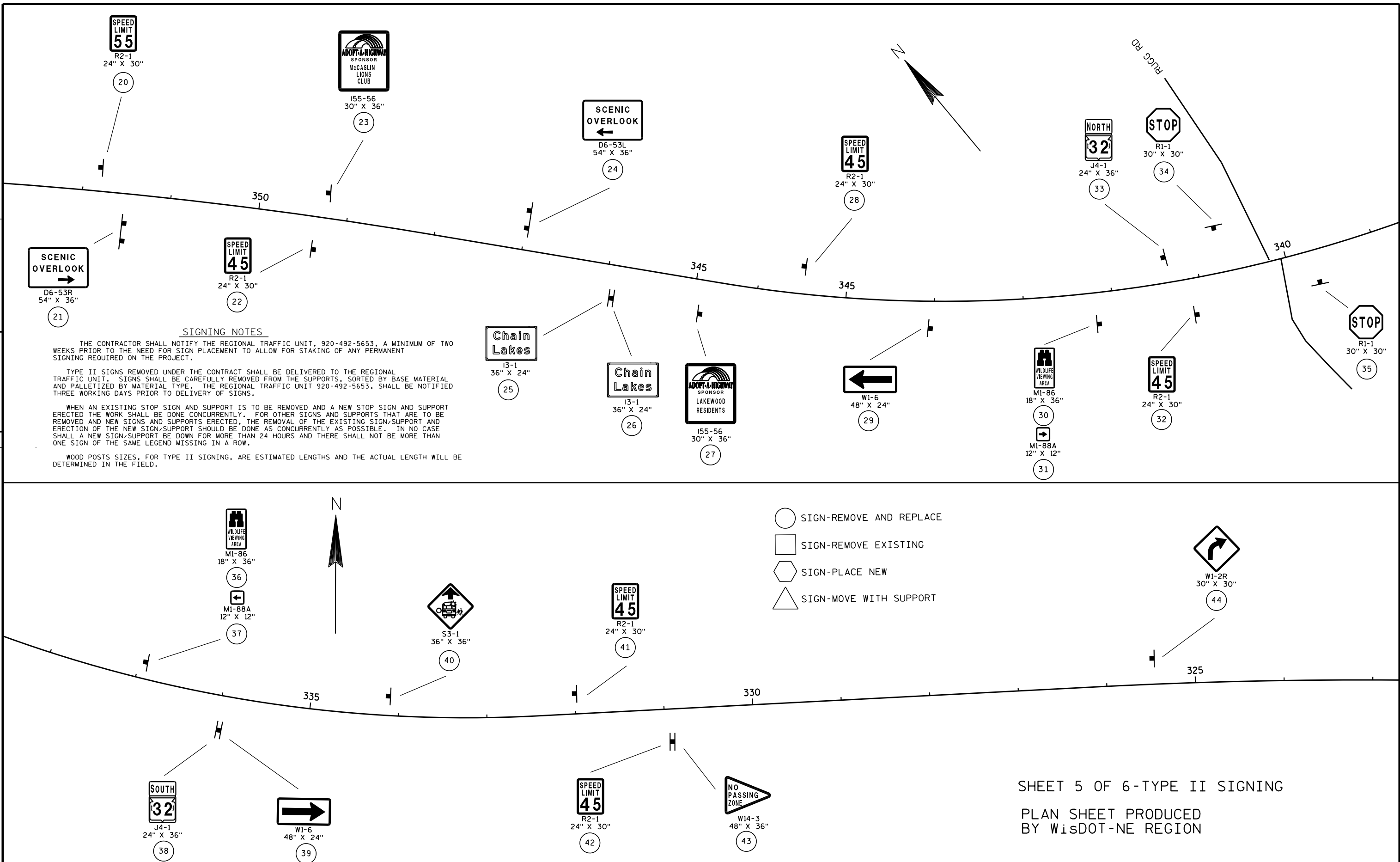
SIGNING NOTES

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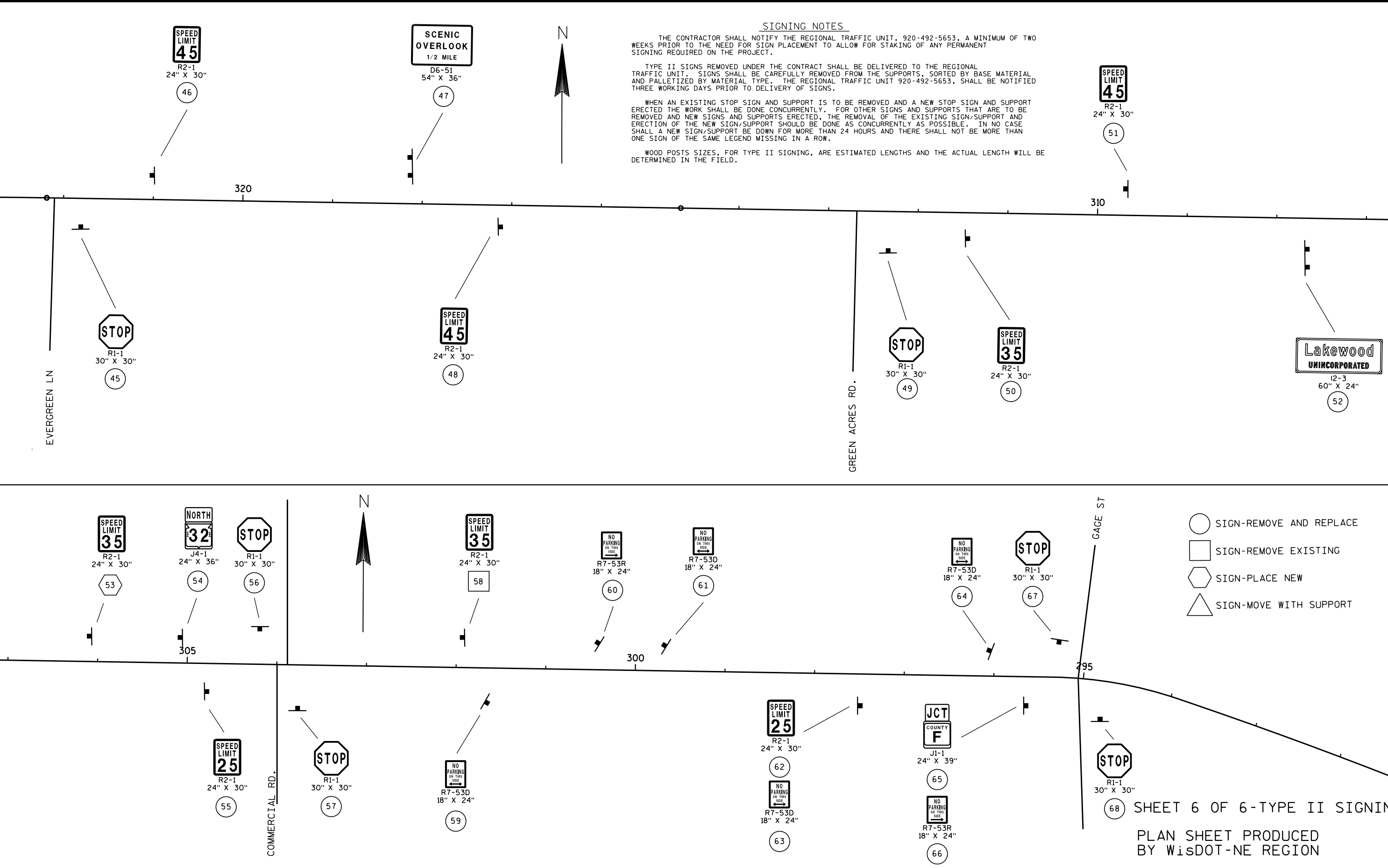
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- SIGN-REMOVE AND REPLACE
- SIGN-REMOVE EXISTING
- SIGN-PLACE NEW
- SIGN-MOVE WITH SUPPORT

SHEET 5 OF 6-TYPE II SIGNING
PLAN SHEET PRODUCED
BY WISDOT-NE REGION



DATE 12MAR13		E S T I M A T E O F Q U A N T I T I E S			
LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	9190-19-60 QUANTITY
0010	204.0115	REMOVING ASPHALTIC SURFACE BUTT JOINTS	SY	180.000	180.000
0020	204.0120	REMOVING ASPHALTIC SURFACE MILLING	SY	59,700.000	59,700.000
0030	211.0100	PREPARE FOUNDATION FOR ASPHALTIC PAVING (PROJECT) 01. 9190-19-60	LS	1.000	1.000
0040	211.0400	PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS	STA	12.000	12.000
0050	213.0100	FINISHING ROADWAY (PROJECT) 01. 9190-19-60	EACH	1.000	1.000
0060	305.0110	BASE AGGREGATE DENSE 3/4-INCH	TON	20.000	20.000
0070	305.0500	SHAPING SHOULDERS	STA	318.000	318.000
0080	455.0105	ASPHALTIC MATERIAL PG58-28	TON	400.000	400.000
0090	455.0605	TACK COAT	GAL	1,520.000	1,520.000
0100	460.1103	HMA PAVEMENT TYPE E-3	TON	7,185.000	7,185.000
0110	460.2000	INCENTIVE DENSITY HMA PAVEMENT	DOL	4,378.000	4,378.000
0120	460.4110.S	REHEATING HMA LONGITUDINAL JOINTS	LF	15,700.000	15,700.000
0130	465.0120	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	TON	55.000	55.000
0140	465.0475.S	ASPHALT CENTER LINE RUMBLE STRIP 2-LANE RURAL	LF	13,600.000	13,600.000
0150	520.0700.S	CULVERT PIPE LINERS (INCH) 01. 32-INCH	LF	80.000	80.000
0160	520.7000	CLEANING CULVERT PIPES	EACH	1.000	1.000
0170	521.1024	APRON ENDWALLS FOR CULVERT PIPE STEEL 24-INCH	EACH	1.000	1.000
0180	521.1036	APRON ENDWALLS FOR CULVERT PIPE STEEL 36-INCH	EACH	1.000	1.000
0190	618.0100	MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 01. 9190-19-60	EACH	1.000	1.000
0200	619.1000	MOBILIZATION	EACH	1.000	1.000
0210	625.0100	TOPSOIL	SY	20.000	20.000
0220	628.1504	SILT FENCE	LF	50.000	50.000
0230	628.1520	SILT FENCE MAINTENANCE	LF	15.000	15.000
0240	628.1905	MOBILIZATIONS EROSION CONTROL	EACH	2.000	2.000
0250	628.1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	1.000	1.000
0260	628.2004	EROSION MAT CLASS I TYPE B	SY	20.000	20.000
0270	628.7504	TEMPORARY DITCH CHECKS	LF	36.000	36.000
0280	629.0210	FERTILIZER TYPE B	CWT	1.000	1.000
0290	630.0130	SEEDING MIXTURE NO. 30	LB	1.000	1.000
0300	633.5200	MARKERS CULVERT END	EACH	3.000	3.000
0310	634.0614	POSTS WOOD 4X6-INCH X 14-FT	EACH	69.000	69.000
0320	634.0616	POSTS WOOD 4X6-INCH X 16-FT	EACH	2.000	2.000
0330	637.0202	SIGNS REFLECTIVE TYPE II	SF	421.980	421.980
0340	638.2102	MOVING SIGNS TYPE II	EACH	2.000	2.000
0350	638.2602	REMOVING SIGNS TYPE II	EACH	65.000	65.000
0360	638.3000	REMOVING SMALL SIGN SUPPORTS	EACH	62.000	62.000
0370	638.4000	MOVING SMALL SIGN SUPPORTS	EACH	1.000	1.000
0380	642.5001	FIELD OFFICE TYPE B	EACH	1.000	1.000
0390	643.0100	TRAFFIC CONTROL (PROJECT) 01. 9190-19-60	EACH	1.000	1.000
0400	643.0300	TRAFFIC CONTROL DRUMS	DAY	210.000	210.000
0410	643.0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	84.000	84.000
0420	643.0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY	168.000	168.000
0430	643.0900	TRAFFIC CONTROL SIGNS	DAY	417.000	417.000
0440	646.0106	PAVEMENT MARKING EPOXY 4-INCH	LF	43,200.000	43,200.000
0450	647.0656	PAVEMENT MARKING PARKING STALL EPOXY	LF	600.000	600.000
0460	649.0100	TEMPORARY PAVEMENT MARKING 4-INCH	LF	15,500.000	15,500.000

DATE 12MAR13			E S T I M A T E O F Q U A N T I T I E S		
LINE					9190-19-60
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0470	650. 8000	CONSTRUCTION STAKING RESURFACING	LF	15,750. 000	15,750. 000
		REFERENCE			
0480	650. 9910	CONSTRUCTION STAKING SUPPLEMENTAL	LS	1. 000	1. 000
		CONTROL (PROJECT) 01. 9190-19-60			
0490	690. 0150	SAWING ASPHALT	LF	710. 000	710. 000
0500	ASP. 1T0A	ON-THE-JOB TRAINING APPRENTICE AT \$5. 00/HR	HRS	300. 000	300. 000
0510	ASP. 1T0G	ON-THE-JOB TRAINING GRADUATE AT \$5. 00/HR	HRS	600. 000	600. 000
0520	SPV. 0090	SPECIAL 01. 4-INCH EPOXY YELLOW	LF	8,300. 000	8,300. 000

REMOVING ASPHALTIC SURFACE BUTT JOINTS

CATEGORY	STATION	LOCATION	204. 0115 SY	REMARKS
0010	305+50	STH 32	7	PROJECT LIMITS
0010	461+87. 45	STH 32	7	PROJECT LIMITS
0010	312+80 LT	GREEN ACRES RD	19	*
0010	322+18 LT	EVERGREEN LANE	14	*
0010	340+00 LT	E. CHAIN LAKE RD/ LAKE ARCHI BALD RD	8	*
0010	340+40 RT	RUGG LANE	8	*
0010	376+90 RT	VILLAGE VIEW DRIVE	6	*
0010	376+90 LT	S. VILLAGE VIEW DRIVE	6	*
0010	391+80 LT	E. CHAIN LAKE RD	7	*
0010	307+00 RT	DRIVEWAY	17	
0010	311+80 RT	DRIVEWAY	6	
0010	312+50 RT	DRIVEWAY	6	
0010	315+75 LT	DRIVEWAY	8	
0010	316+80 RT	DRIVEWAY	8	
0010	320+15 LT	DRIVEWAY	8	
0010	323+75 LT	DRIVEWAY	6	
0010	329+00 RT	DRIVEWAY	10	
0010	333+15 RT	DRIVEWAY	6	
0010	335+00 RT	DRIVEWAY	9	
0010	337+50 LT	DRIVEWAY	14	

TOTAL 180
* See Removing Asphaltic Surface Milling for Limits

3/4" BASE AGGREGATE DENSE SUMMARY*

		305. 0110 BASE AGGREGATE DENSE 3/4 INCH	
CATEGORY	LOCATI ON	TON	REMARKS
0010	UNDI STRI BUTED	20	DRI VEWAYS

TOTALS 20
* Water is Incidental to this Item

PREPARE FOUNDATION FOR ASPHALTIC PAVING (PROJECT) 01. 9190-19-60

CATEGORY	LOCATI ON	211. 0100 LS	REMARKS
0010	PROJECT 01. 9190-19-60	1	STA 305+50 - 461+87. 45 NB & SB STH 32

TOTAL 1

PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

CATEGORY	LOCATI ON	211. 0400 STA	REMARKS
0010	450+30 LT - 461+87. 45 LT	12	BEAM GUARD AREA

TOTAL 12

FINISHING ROADWAY (PROJECT) 01. 9190-19-60

CATEGORY	LOCATI ON	213. 0100 EACH
0010	PROJECT 9190-19-60	1

TOTAL 1

REMOVING ASPHALTIC SURFACE MILLING

CATEGORY	STATION	TO	STATION	LOCATION	204.0120 SY	REMARKS
MAINLINE*						
0010	305+50	-	314+64.95	STH 32	2440	STATION EQUATION: 314+64.95=315+11.40
0010	315+11.40	-	346+43.21	STH 32	8350	STATION EQUATION: 346+43.21=344+73.55
0010	344+73.55	-	461+87.45	STH 32	31230	
SHOULDERS						
0010	305+50	-	314+64.95	STH 32 SHOULDER RT	305	
0010	315+11.40	-	346+43.21	STH 32 SHOULDER RT	1044	
0010	344+73.55	-	461+87.45	STH 32 SHOULDER RT	3905	
0010	305+50	-	314+64.95	STH 32 SHOULDER LT	305	
0010	315+11.40	-	346+43.21	STH 32 SHOULDER LT	1044	
0010	344+73.55	-	461+87.45	STH 32 SHOULDER LT	3905	
0010	335+00	-	339+65	STH 32 SHOULDER RT	155	ADDITIONAL PAVED SHOULDER IN CURB AND GUTTER AREA
SCENIC OVERLOOK						
0010	347+40	-	350+90	SCENIC OVERLOOK	2880	Mill 2-Inches
SIDE ROADS						
0010	312+80 LT			GREEN ACRES RD	50	Mill Limits 8' from Edge of Travel Lane
0010	322+18 LT			EVERGREEN LANE	74	Mill Limits 11' from Edge of Travel Lane
0010	340+00 LT			E. CHAIN LAKE RD/ LAKE ARCHIBALD RD	715	Mill Limits 10' from Edge of Travel Lane
0010	340+40 RT			RUGG LANE	383	Mill Limits 56' from Edge of Travel Lane
0010	376+90 RT			VILLAGE VIEW DRIVE	851	Mill Limits 41' from the Edge of Travel Lane
0010	376+90 LT			S. VILLAGE VIEW DRIVE	819	Mill Limits 10' from Edge of Travel Lane
0010	391+80 LT			E. CHAIN LAKE RD	799	Mill Limits 27' from Edge of Travel Lane
DRI VEWAYS						
0010	307+00 RT			STH 32	100	
0010	311+80 RT			STH 32	28	
0010	312+50 RT			STH 32	20	
0010	315+75 LT			STH 32	40	
0010	316+80 RT			STH 32	25	
0010	320+15 LT			STH 32	25	
0010	323+75 LT			STH 32	43	
0010	329+00 RT			STH 32	32	
0010	333+15 RT			STH 32	45	
0010	335+00 RT			STH 32	48	
0010	337+50 LT			STH 32	41	

TOTAL 59700

* Both Lanes Included in the Calculation

SHAPING SHOULDERS

CATEGORY	STATION	TO	STATION	LOCATION	305. 0500 STA
0010	305+50	-	314+64. 95	STH 32 SHOULDER RT	10
0010	315+11. 40	-	336+25	STH 32 SHOULDER RT	22
0010	339+75	-	346+43. 21	STH 32 SHOULDER RT	8
0010	344+73. 55	-	461+87. 45	STH 32 SHOULDER RT	118
0010	305+50	-	314+64. 95	STH 32 SHOULDER LT	10
0010	315+11. 40	-	346+43. 21	STH 32 SHOULDER LT	32
0010	344+73. 55	-	461+87. 45	STH 32 SHOULDER LT	118
TOTAL					318

HMA SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	455. 0105 ASPHALTI C MATERI AL PG58-28 TON	455. 0605 TACK COAT GAL	460. 1103 HMA PAVEMENT TYPE E-3 TON	REMARKS
MAI NLI NE								
0010	305+50	-	314+64. 95	NB STH 32	8	31	146	Mai n l i ne
0010	315+11. 40	-	346+43. 21	NB STH 32	28	104	501	"
0010	344+73. 55	-	461+87. 45	NB STH 32	104	391	1874	"
0010	305+50	-	314+64. 95	SB STH 32	8	31	146	"
0010	315+11. 40	-	346+43. 21	SB STH 32	28	104	501	"
0010	344+73. 55	-	461+87. 45	SB STH 32	104	392	1874	"
SIDE ROADS								
0010				GREEN ACRES RD	1	1	6	
0010				EVERGREEN LANE	1	2	9	
0010				E. CHAI N LAKE RD/ LAKE ARCHI BALD RD	5	18	85	
0010				RUGG LANE	3	10	46	
0010				VILLAGE VI EW DRI VE	6	21	102	
0010				S. VI LLAGE VI EW DRI VE	5	20	98	
0010				E. CHAI N LAKE RD	5	40	96	
SHOULDER S								
0010	305+50	-	314+64. 95	STH 32 Shoul der RT	2	8	37	Station Equati on
0010	315+11. 40	-	336+25	STH 32 Shoul der RT	7	26	125	
0010	339+75	-	346+43. 21	STH 32 Shoul der RT	26	98	469	Station Equati on
0010	344+73. 55	-	461+87. 45	STH 32 Shoul der RT	2	8	37	
0010	305+50	-	314+64. 95	STH 32 Shoul der LT	7	26	125	Station Equati on
0010	315+11. 40	-	346+43. 21	STH 32 Shoul der LT	26	98	469	Station Equati on
0010	344+73. 55	-	461+87. 45	STH 32 Shoul der LT	4	15	74	
0010	450+80	-	461+87. 45	STH 32 Shoul der LT	1	4	19	Beam Guard
0010	312+92	-	313+07	STH 32 Shoul der RT	1	1	1	Snowmobi l e Crossing RT Si de Onl y
SCENI C OVERLOOK								
0010	347+40	-	350+90	Sceni c Overl ook Parki ng Lot	19	72	345	Pave 2-Inches
TOTALS					400	1520	7185	

REHEATING HMA PAVEMENT LONGITUDINAL JOINTS

CATEGORY	STATION	TO	STATION	LOCATION	460. 4110. S LF	REMARKS
0010	305+50	-	461+87. 45	STH 114 EB	15700	STH 32
TOTAL					15700	

ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

CATEGORY	STATION	LOCATION	465. 0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON
0010	307+00	STH 32 RT	12
0010	311+80	STH 32 RT	4
0010	312+50	STH 32 RT	2
0010	315+75	STH 32 LT	5
0010	316+80	STH 32 RT	3
0010	320+15	STH 32 LT	3
0010	323+75	STH 32 LT	5
0010	329+00	STH 32 RT	4
0010	333+15	STH 32 RT	5
0010	335+00	STH 32 RT	6
0010	337+50	STH 32 LT	5
TOTAL			55

CLEANING CULVERT PIPES

CATEGORY	STATION	LOCATION	520. 7000* EACH	Remarks
0010	354+50	STH 32	1	LT ENDWALL OF CULVERT PIPE COULD NOT BE LOCATED
TOTAL			1	

* LOCATING THE ENDWALL IS INCIDENTAL TO THE BID ITEM

CULVERT PIPE LINERS 32-INCH

CATEGORY	STATION	LOCATION	520. 0700. S CULVERT PIPE LINERS 32-INCH LF	Remarks
0010	332+80	STH 32	80	SLOPE IS 0. 80 %, VERIFY Existing Type: 36-Inch CSCP Existing Full Flow Capacity: 175. 13 cfs
TOTAL			80	

APRON ENDWALLS FOR CULVERT PIPE STEEL SUMMARY

CATEGORY	STATION	LOCATION	521. 1024 APRON ENDWALLS FOR CULVERT PIPE STEEL 24-INCH EACH	521. 1036 APRON ENDWALLS FOR CULVERT PIPE STEEL 36-INCH EACH	REMARKS
0010	354+50	STH 32 LT	1	-	LT ENDWALL COULD NOT BE LOCATED
0010	332+80	STH 32 RT	-	1	
TOTALS			1	1	

TOPSOIL, MULCHING, FERTILIZER, AND SEED SUMMARY

CATEGORY	STATION TO STATION	LOCATION	625. 0105 TOPSOIL SY	629. 0210 FERTILIZER TYPE B CWT	630. 0130 SEEDING MIXTURE NO. 30 LB	REMARKS
0010		UNDISTRIBUTED	20	1	1	CULVERT PIPE AREAS
TOTALS			20	1	1	

MOBILIZATION

CATEGORY	LOCATION	619. 1000 EACH
0010	PROJECT 9190-19-60	1
TOTAL		1

MOBILIZATIONS EROSION CONTROL AND MOBILIZATIONS EMERGENCY EROSION CONTROL

CATEGORY	STATION TO STATION	LOCATION	628. 1905 MOBILIZATIONS EROSION CONTROL EACH	628. 1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH
0010	305+50 - 461+87.45	PROJECT	2	1
TOTALS			2	1

SILT FENCE SUMMARY

CATEGORY	STATION TO STATION	LOCATION	628. 1504 SILT FENCE LF	628. 1520 SILT FENCE MAINTENANCE LF
0010	-	Pipeline & Cleaning Areas	50	15
TOTALS			50	15

ASPHALTIC CENTERLINE RUMBLE STRIP 2-LANE RURAL

CATEGORY	STATION - STATION	ROADWAY	465. 0475. S ASPHALT CENTERLINE RUMBLE STRIP 2-LANE RURAL LF	REMARKS
0010	305+50 - 310+80	STH 32	530	
0010	314+80 - 320+18	STH 32	540	
0010	324+18 - 338+00	STH 32	1382	
0010	342+40 - 374+90	STH 32	3250	
0010	378+90 - 389+80	STH 32	1090	
0010	393+80 - 461+87.45	STH 32	6808	
TOTALS			13600	

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

SIGN NO.	LOCATION	SIGN CODE	W X H	637. 0202 SIGN S. F. REFLECTIVE TYPE II	634. 0614 POSTS WOOD 4x6x14 EACH	634. 0616 POSTS WOOD 4x6x16 EACH	638. 2602 REMOVING SIGN TYPE II EACH	638. 3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
1	WEST OF E. CHAIN LAKE RD	W3-5	36" X 36"	9.00	1		1	1	45 MPH
2	"	W3-5	36" X 36"	9.00	1				35 MPH, GIVE TO TOWN OF TOWNSEND, FOR HOLIDAY WEEKENDS
3	SEE MOVING SIGNS								
4	WEST OF E. CHAIN LAKE RD	W14-3	48" X 36"	6.00	1		1	1	
5	"	I 2-3	60" X 24"	10.00	2		1	1	SEE SIGN DETAIL
6	"	I 55-56	30" X 36"	7.50	1		1	1	SEE PLAN SHEET
7	"	W14-3	48" X 36"	6.00	1		1	1	
8	E. CHAIN LAKE RD	R1-1	30" X 30"	5.18	1		1	1	
9	EAST OF E. CHAIN LAKE RD	W14-3	48" X 36"	6.00	1		1	1	
10	"	SP	36" X 36"	9.00	1		1	1	SEE SIGN DETAIL & PLAN
11	"	D6-51	54" X 36"	13.50	2		1	1	
12	VILLAGE VIEW DR	R1-1	30" X 30"	5.18	1		1	1	
13	"	R1-1	30" X 30"	5.18	1		1	1	
14	EAST OF VILLAGE VIEW DR	SP	36" X 36"	9.00	1		1	1	SEE SIGN DETAIL & PLAN
15	"	I 3-1	60" X 24"	10.00	2		1	1	SEE SIGN DETAIL
16	"	I 3-1	60" X 24"	10.00	2		1	1	SEE SIGN DETAIL
17	WEST OF RUGG RD	W14-3	48" X 36"	6.00	1		1	1	
18	"	W3-5	36" X 36"	9.00	1		1	1	45 MPH
19	"	W1-2L	30" X 30"	6.25	1		1	1	
20	"	R2-1	24" X 30"	5.00	1		1	1	55 MPH
21	"	D6-53R	54" X 36"	13.50	2		1	1	
22	"	R2-1	24" X 30"	5.00	1		1	1	45 MPH
23	"	I 55-56	30" X 36"	7.50	1		1	1	SEE PLAN SHEET
24	"	D6-53L	54" X 36"	13.50	2		1	1	
25	"	I 3-1	36" X 24"	6.00	1		1	1	SEE SIGN DETAIL
26	"	I 3-1	36" X 24"	6.00	1		1		MOUNT ON BACK OF SIGN #25, SEE SIGN DETAIL
27	"	I 55-56	30" X 36"	7.50	1		1	1	SEE PLAN SHEET
28	"	R2-1	24" X 30"	5.00	1		1	1	45 MPH
29	"	W1-6	48" X 24"	8.00	1		1	1	
30	"	M1-86	18" X 36"	4.50		1	1	1	
31	"	M1-88A	12" X 12"	1.00			1		MOUNT BELOW SIGN #30
32	"	R2-1	24" X 30"	5.00	1		1	1	45 MPH
33	"	J4-1	24" X 36"	6.00	1		1	1	STH 32, SEE PLAN SHEET
34	RUGG RD	R1-1	30" X 30"	5.18	1		1	1	
35	"	R1-1	30" X 30"	5.18	1		1	1	
36	EAST OF RUGG RD	M1-86	18" X 36"	4.50		1	1	1	
37	"	M1-88A	12" X 12"	1.00			1		MOUNT BELOW SIGN #36
38	"	J4-1	24" X 36"	6.00	1		1	1	STH 32, SEE PLAN SHEET
39	"	W1-6	48" X 24"	8.00			1		MOUNT ON BACK OF SIGN #38

PROJECT SUBTOTALS

265.15

39

2

37

33

ERECTION & REMOVAL OF PERMANENT SIGNING, TYPE II

SIGN NO.	LOCATION	SIGN CODE	W X H	637. 0202 SIGN S REFLECTIVE TYPE II S. F.	634. 0614 POSTS WOOD 4x6x14 EACH	634. 0616 POSTS WOOD 4x6x16 EACH	638. 2602 REMOVING SIGN TYPE II EACH	638. 3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
40	WEST OF EVERGREEN LN	S3-1	36" X 36"	9.00	1		1	1	
41	"	R2-1	24" X 30"	5.00	1		1	1	45 MPH
42	"	R2-1	24" X 30"	5.00	1		1	1	45 MPH
43	"	W14-3	48" X 36"	6.00	1		1	1	MOUNT ON BACK OF SIGN #43
44	"	W1-2R	30" X 30"	6.25	1		1	1	
45	EVERGREEN LN	R1-1	30" X 30"	5.18	1		1	1	
46	EAST OF EVERGREEN LN	R2-1	24" X 30"	5.00	1		1	1	45 MPH
47	"	D6-51	54" X 36"	13.50	2		1	1	
48	"	R2-1	24" X 30"	5.00	1		1	1	45 MPH
49	GREEN ACRES RD	R1-1	30" X 30"	5.18	1		1	1	
50	EAST OF GREEN ACRES RD	R2-1	24" X 30"	5.00	1		1	1	35 MPH
51	"	R2-1	24" X 30"	5.00	1		1	1	45 MPH
52	"	I 2-3	60" X 24"	10.00	2		1	2	SEE SIGN DETAIL
53	WEST OF COMMERCIAL RD	R2-1	24" X 30"	5.00	1		1	1	35 MPH
54	"	J1-1	24" X 39"	6.50	1		1	1	STH 32, SEE SIGN PLAN
55	"	R2-1	24" X 30"	5.00	1		1	1	25 MPH
56	COMMERCIAL RD	R1-1	30" X 30"	5.18	1		1	1	
57	"	R1-1	30" X 30"	5.18	1		1	1	
58	EAST OF COMMERCIAL RD	R2-1	24" X 30"	5.00					
59	"	R7-53D	18" X 24"	3.00	1		1	1	
60	"	R7-53R	18" X 24"	3.00	1		1	1	
61	"	R7-53D	18" X 24"	3.00	1		1	1	
62	WEST OF GAGE ST	R2-1	24" X 30"	5.00	1		1	1	25 MPH
63	"	R7-53D	18" X 24"	3.00	1		1	1	MOUNT BELOW SIGN #62
64	"	R7-53D	18" X 24"	3.00	1		1	1	
65	"	J1-1	24" X 39"	6.50	1		1	1	CTH F, SEE SIGN PLAN
66	"	R7-53R	18" X 24"	3.00	1		1	1	MOUNT BELOW SIGN #65
67	GAGE ST	R1-1	30" X 30"	5.18	1		1	1	
68	"	R1-1	30" X 30"	5.18	1		1	1	

PROJECT SUBTOTALS 156.83 30 0 28 29

PROJECT TOTALS 421.98 69 2 65 62

MOVING SIGNS TYPE II

SIGN NO.	LOCATION	638. 2102 MOVING SIGN TYPE II EACH	638. 4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
3	W. OF E. CHAIN LAKE RD	2	1	CONTACT TOWNSEND TO VERIFY TOWN ORDINANCES AND MOVE

PROJECT TOTALS 2 1

TEMPORARY DITCH CHECKS

CATEGORY	STATION	LOCATION	628. 7504 LF
0010		Pi pe Li ni ng & Cleani ng Areas	36
TOTAL			36

EROSION MAT SUMMARY

CATEGORY	STATION TO STATION	LOCATI ON	628. 2004 EROSI ON MAT CLASS I TYPE B SY	REMARKS
0010		UNDI STRI BUTED	50	CULVERT PI PE AREAS
TOTALS			50	

PAVEMENT MARKING SUMMARY

CATEGORY	STATION TO STATION	LOCATION	646. 0106 4-INCH EPOXY YELLOW LF	SPV. 0090. 01 4-INCH EPOXY YELLOW LF	646. 0106 4-INCH EPOXY WHITE LF	647. 0656 PARKING STALL EPOXY LF	649. 0100 TEMPORARY 4-INCH LF	REMARKS
0010	305+50 - 461+87. 45	STH 32	2800	8300				CENTERLI NE
0010	305+50 - 461+87. 45	STH 32			15840			RI GHT EDGELI NE
0010	305+50 - 461+87. 45	STH 32			16260			LEF T EDGELI NE
0010	347+40 - 350+90	SCENI C OVERLOOK				600		
0010	305+50 - 461+87. 45	STH 32					15500	
TOTALS			2800	8300	32100	600	15500	

TRAFFIC CONTROL SUMMARY

CATEGORY	LOCATION	APPROX. SERVICE PERI OD DAYS	643. 0300 DRUMS NO. I N SERVI CE DAYS	643. 0420 BARRI CADES TYPE I I I NO. I N SERVI CE DAYS	643. 0705 WARNI NG LI GHTS TYPE A NO. I N SERVI CE DAYS	643. 0900 SI GNS NO. I N SERVI CE DAYS	REMARKS
0010	STH 32	21				10 210	ADVANCED WARNI NG
0010	GREEN ACRES RD	21				1 21	ADVANCED WARNI NG
0010	EVERGREEN LANE	21				1 21	ADVANCED WARNI NG
0010	E. CHAI N LAKE RD/ LAKE ARCHI BALD RD	21				1 21	ADVANCED WARNI NG
0010	RUGG LANE	21				1 21	ADVANCED WARNI NG
0010	V I L L A G E V I E W D R I V E	21				1 21	ADVANCED WARNI NG
0010	S. V I L L A G E V I E W D R I V E	21				1 21	ADVANCED WARNI NG
0010	E. CHAI N LAKE RD	21				1 21	ADVANCED WARNI NG
0010	STH 32	10				6 60	MOBI LE FLAGGI NG OPERATI ON
0010	UNDI STRI BUTED	21	10 210	4 84	8 168		
TOTALS			210	84	168	417	

CONSTRUCTION STAKING SUMMARY

CATEGORY	STATION	TO	STATION	LOCATION	650. 8000 CONSTRUCTI ON STAKI NG RESURFACI NG REFERENCE LF	650. 9910 CONSTRUCTI ON STAKI NG SUPPLEMENTAL CONTROL LS	REMARKS
0010	305+50	-	314+64. 95	STH 32	910	-	STATI ON EQUATI ON: 314+64. 95=315+11. 40
0010	315+11. 40	-	346+43. 21	STH 32	3130	-	STATI ON EQUATI ON: 346+43. 21=344+73. 55
0010	344+73. 55	-	461+87. 45	STH 32	11710	-	
0010				PROJECT	-	1	PROJECT
TOTAL					15750	1	

FIELD OFFICE TYPE B

CATEGORY	LOCATI ON	642. 5001 EACH
0010	PROJECT 01. 9190-19-60	1
TOTAL		1

SAWING SUMMARY

CATEGORY	STATI ON	LOCATI ON	690. 0150 SAWI NG ASPHALT LF	REMARKS
0010	305+50	STH 32	30	Project Limi ts
0010	461+87. 45	STH 32	30	Project Limi ts
0010	312+80 LT	GREEN ACRES RD	35	
0010	322+18 LT	EVERGREEN LANE	35	
0010	340+00 LT	E. CHAI N LAKE RD/ LAKE ARCHI BALD RD	34	
0010	340+40 RT	RUGG LANE	35	
0010	376+90 RT	VI LLAGE VI EW DRI VE	28	
0010	376+90 LT	S. VI LLAGE VI EW DRI VE	25	
0010	391+80 LT	E. CHAI N LAKE RD	32	
0010	307+00 RT	DRI VEWAY	75	
0010	311+80 RT	DRI VEWAY	26	
0010	312+50 RT	DRI VEWAY	26	
0010	315+75 LT	DRI VEWAY	37	
0010	316+80 RT	DRI VEWAY	33	
0010	320+15 LT	DRI VEWAY	33	
0010	323+75 LT	DRI VEWAY	26	
0010	329+00 RT	DRI VEWAY	42	
0010	333+15 RT	DRI VEWAY	27	
0010	335+00 RT	DRI VEWAY	40	
0010	337+50 LT	DRI VEWAY	61	
TOTALS			710	

MAINTENANCE AND REPAIR OF HAUL ROADS (PROJECT) 9190-19-60

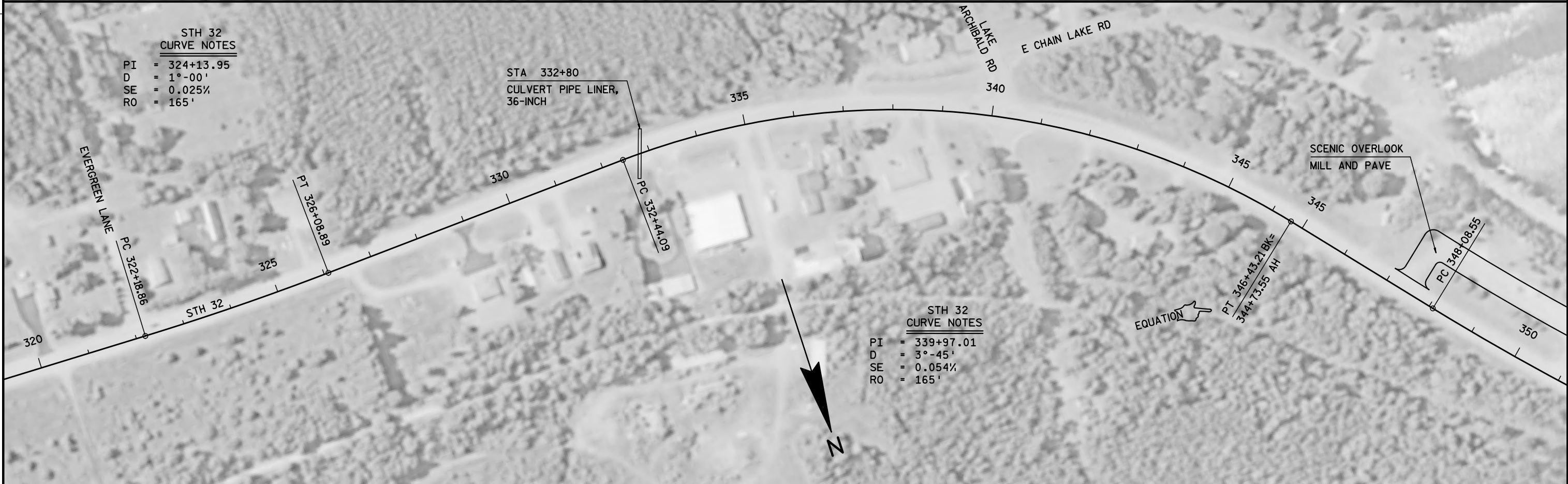
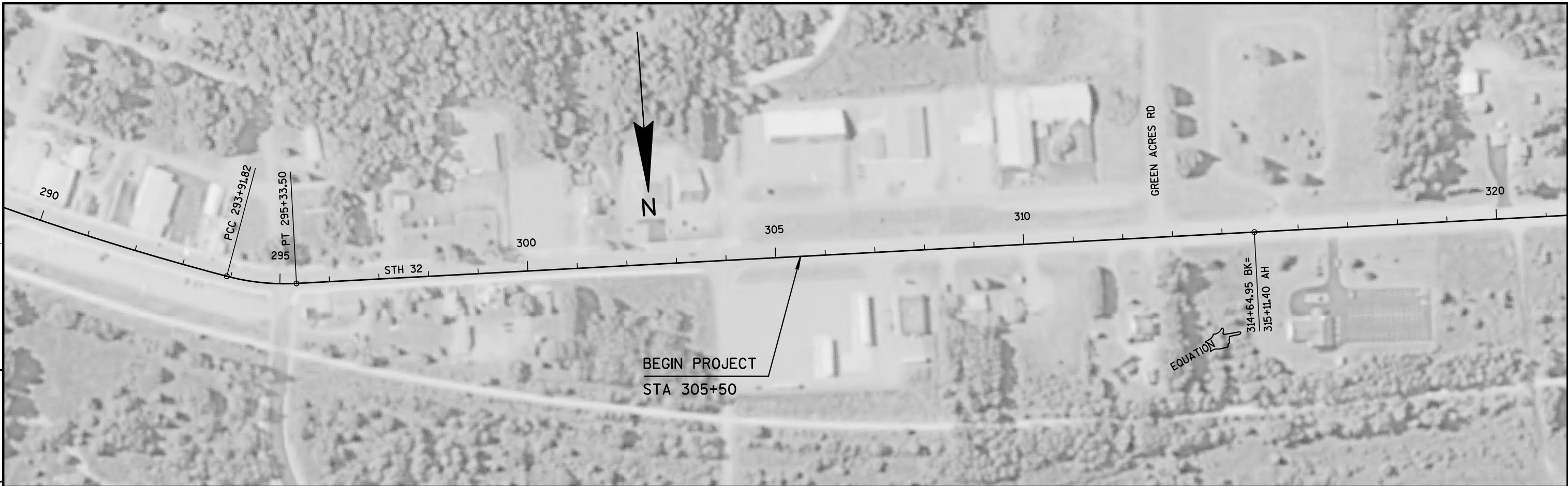
CATEGORY	LOCATI ON	618. 0100 EACH
0010	PROJECT 01. 9190-19-60	1
TOTAL		1

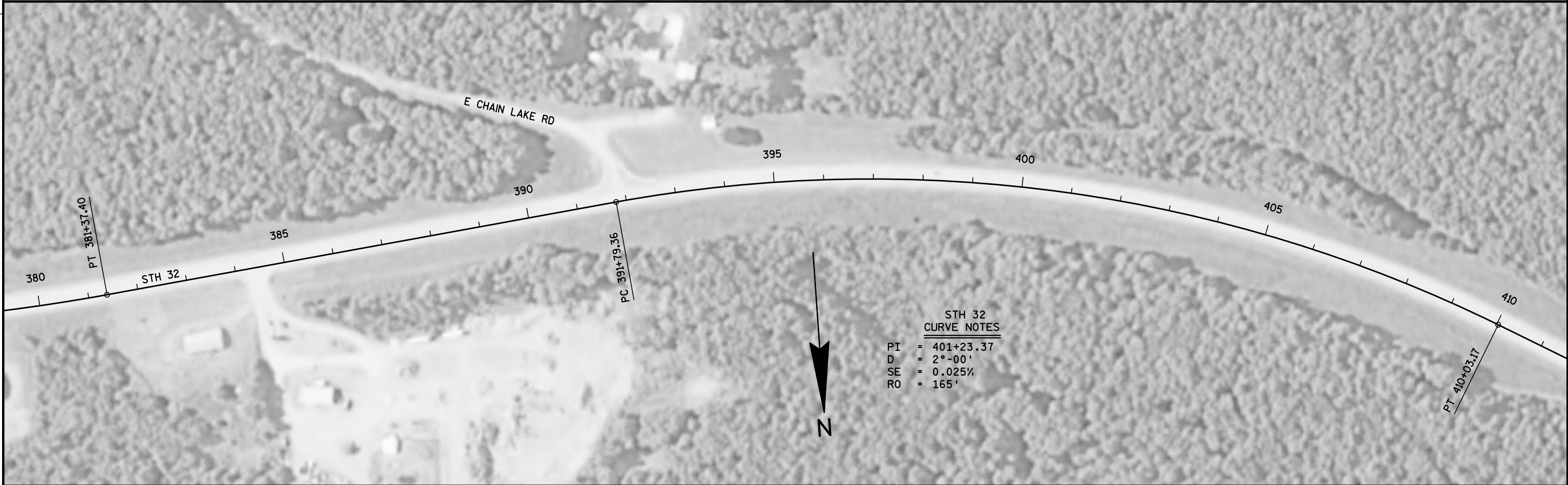
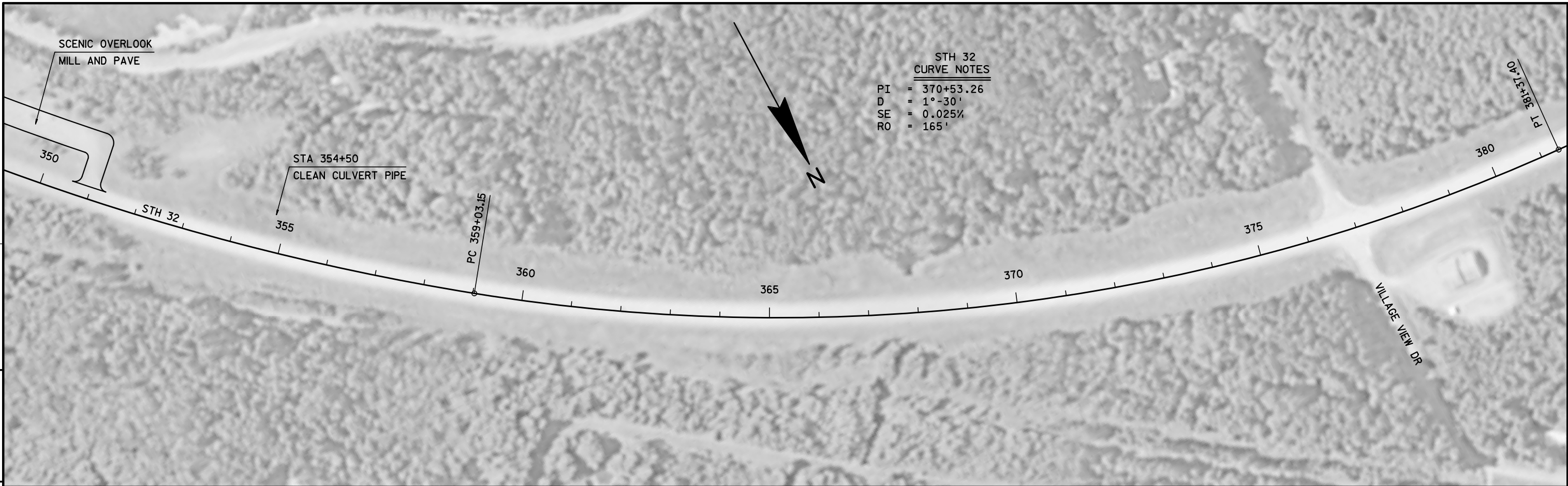
TRAFFIC CONTROL (PROJECT) 9190-19-60

CATEGORY	LOCATI ON	643. 0100 EACH
0010	PROJECT 01. 9190-19-60	1
TOTAL		1

MARKERS CULVERT END

CATEGORY	STATION	LOCATI ON	633. 5200 EACH
0010	332+80	STH 32 RT	1
0010	354+50	STH 32 LT & RT	2
TOTAL			3







5

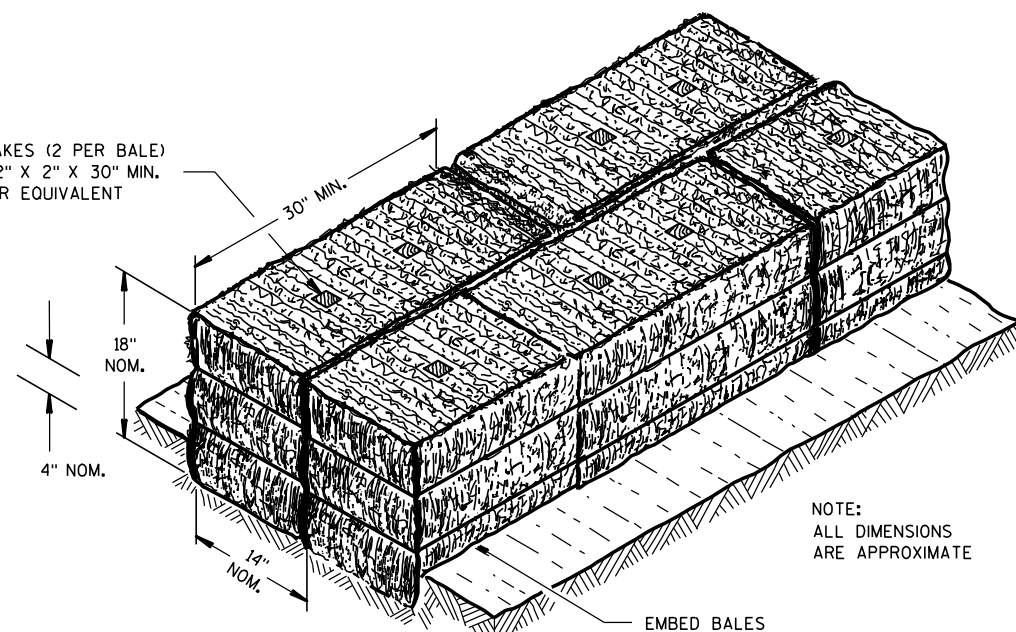
5

PROJECT NO: 9190-19-60	HWY: STH 32	COUNTY: OCONTO	PLAN	SHEET	E
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Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
13A11-01A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-01B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C04-01	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M. P. H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-01	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M. P. H. OR LESS
15C08-15A	PAVEMENT MARKING (MAINLINE)
15C08-15B	PAVEMENT MARKING (INTERSECTIONS)
15C12-03	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C19-01A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15D28-01	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

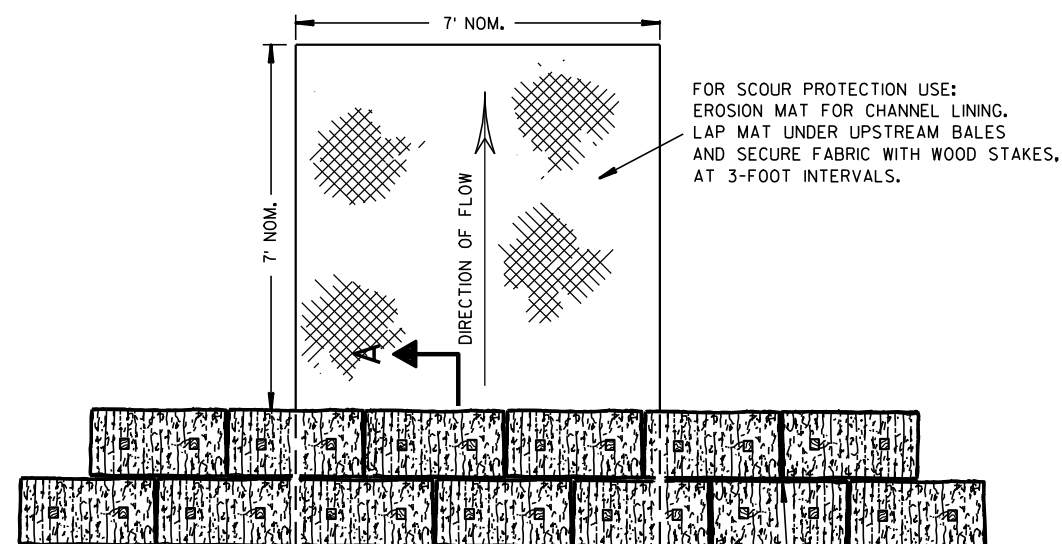
WOOD STAKES (2 PER BALE)
NOMINAL 2" X 2" X 30" MIN.
LENGTH OR EQUIVALENT



NOTE:
ALL DIMENSIONS
ARE APPROXIMATE

EMBED BALES

SECTION A-A

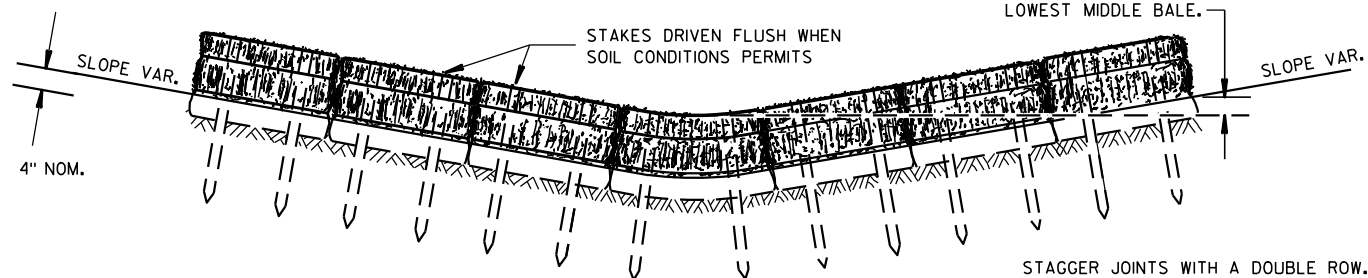


FOR SCOUR PROTECTION USE:
EROSION MAT FOR CHANNEL LINING.
LAP MAT UNDER UPSTREAM BALES
AND SECURE FABRIC WITH WOOD STAKES,
AT 3-FOOT INTERVALS.

PLAN VIEW

STAGGER JOINTS BETWEEN ADJACENT
ROWS OF BALES.

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



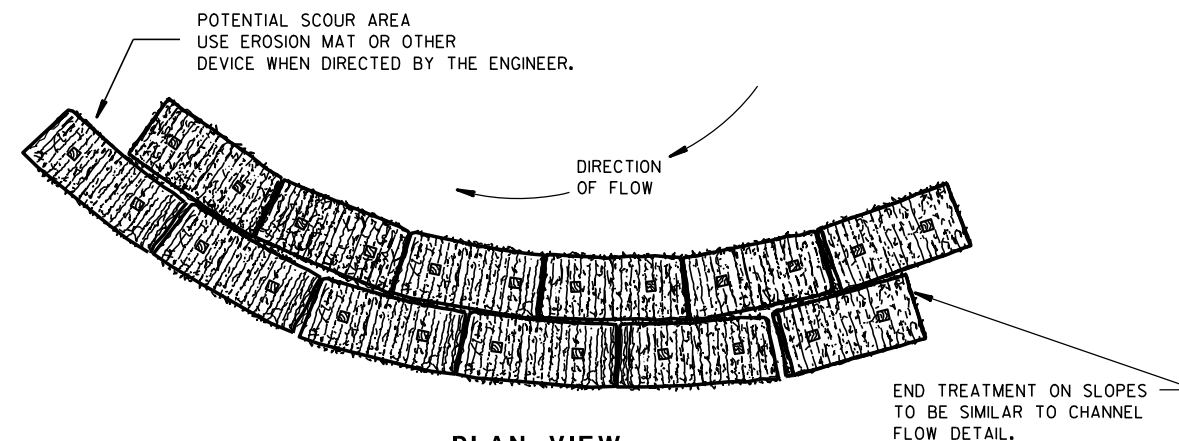
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

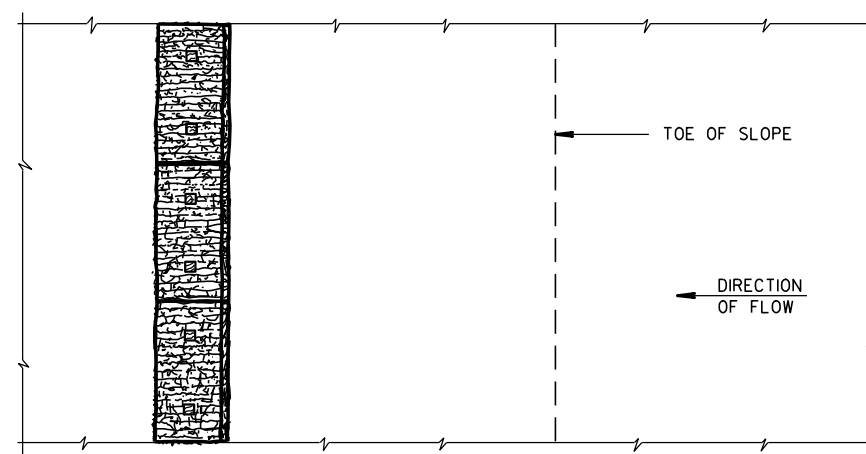
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

- 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.

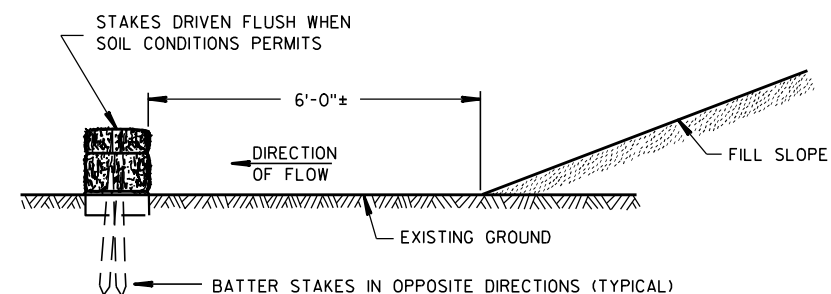


PLAN VIEW

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
DATE

/S/ Beth Canestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA



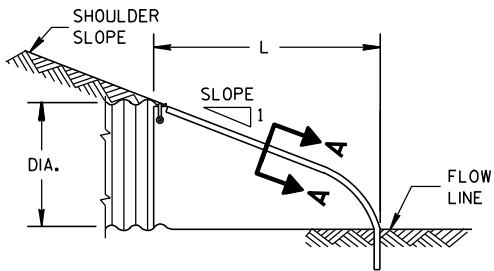
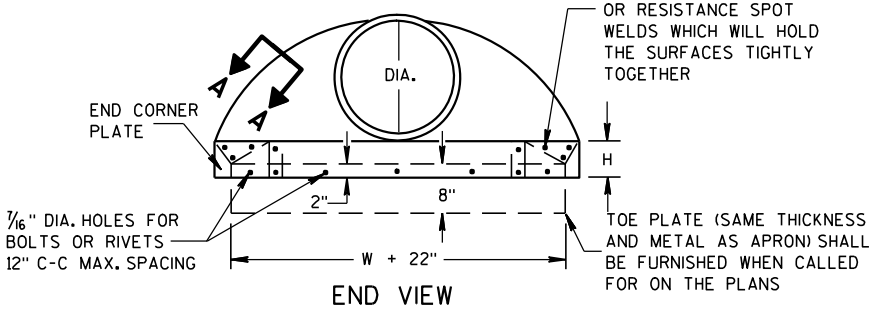
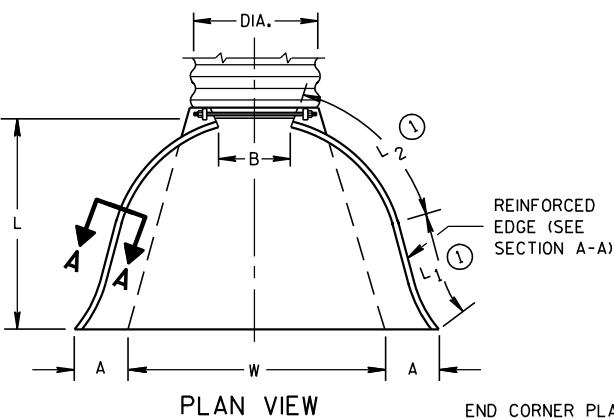
- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1½" X 1½" 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.



<div>SILT FENCE</div>	
<div>STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION</div>	
<div>APPROVED</div>	
<div>4-29-05</div>	<div>/S/ Beth Canestra</div>
<div>DATE</div>	<div>CHIEF ROADWAY DEVELOPMENT ENGINEER</div>
<div>FHWA</div>	

METAL APRON ENDWALLS												
PIPE DIA. (IN.)	MIN. THICK. (Inches)		DIMENSIONS (Inches)							APPROX. SLOPE		BODY
	STEEL	ALUM.	A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")			
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1		1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1		1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1		1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1		1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1		1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1		1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1		2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1		2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1		3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1		3 Pc.
60	.109x	.105x	18	33	12	87	—	—	114	2 to 1		3 Pc.
66	.109x	.105x	18	36	12	87	—	—	120	2 to 1		3 Pc.
72	.109x	.105x	18	39	12	87	—	—	126	2 to 1		3 Pc.
78	.109x	.105x	18	42	12	87	—	—	132	1 1/2 to 1		3 Pc.
84	.109x	.105x	18	45	12	87	—	—	138	1 1/2 to 1		3 Pc.
90	.109x	.105x	18	37	12	87	—	—	144	1 1/2 to 1		3 Pc.
96	.109x	.105x	18	35	12	87	—	—	150	1 1/2 to 1		3 Pc.

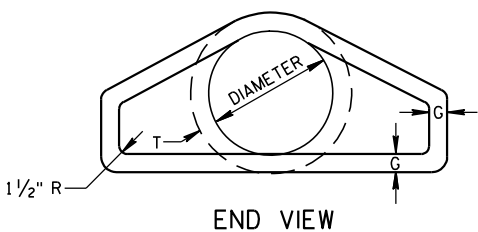
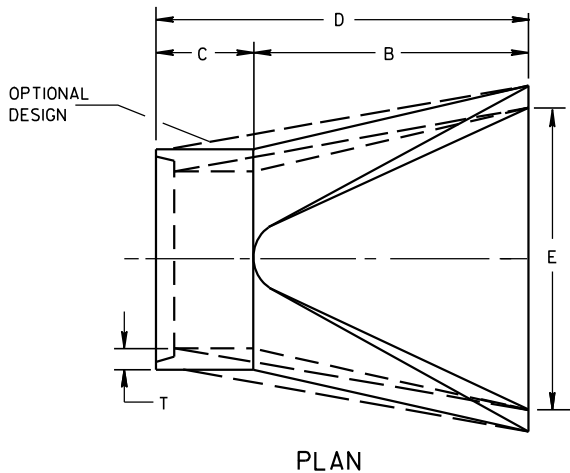
* EXCEPT CENTER PANEL
SEE GENERAL NOTES



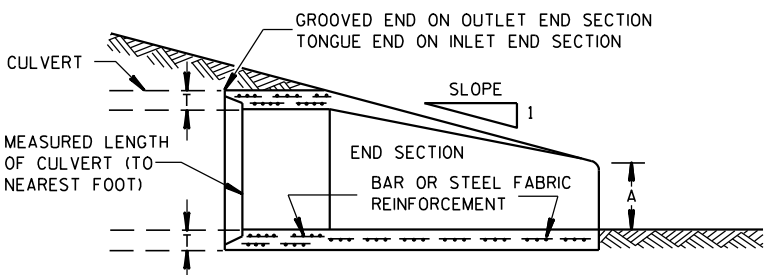
SIDE ELEVATION
METAL ENDWALLS

REINFORCED CONCRETE APRON ENDWALLS												
PIPE DIA. (IN.)	DIMENSIONS (Inches)							APPROX. SLOPE				
	T	A	B	C	D	E	G					
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1				
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1				
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1				
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1				
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1				
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1				
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1				
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1				
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1				
48	5	24	72	26	98	84	5	3 to 1				
54	5 1/2	27	65	33 1/4-35	98 1/4-100	90	5 1/2	2 2/5 to 1				
60	6	30-35	60	39	99	96	5	2 to 1				
66	6 1/2	24-30	72-78	21-27	99	102	5 1/2	2 to 1				
72	7	24-36	78	21	99	108	6	2 to 1				
78	7 1/2	24-36	78	21	99	114	6 1/2	2 to 1				
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1				
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1				

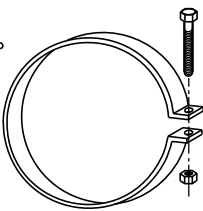
* MINIMUM
** MAXIMUM



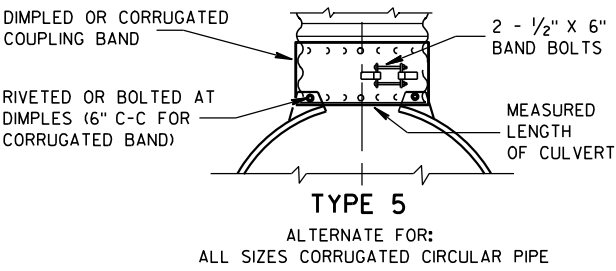
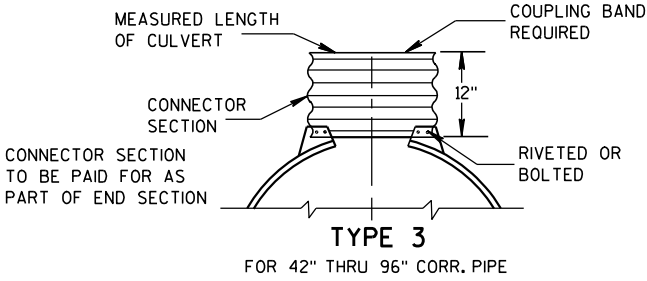
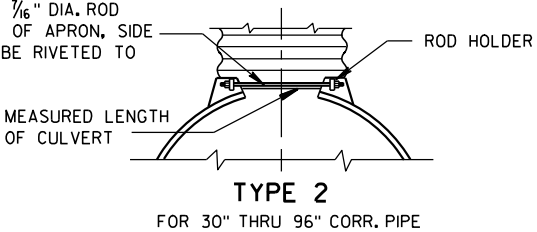
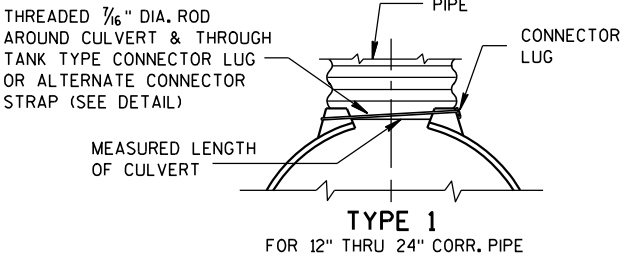
LONGITUDINAL SECTION
CONCRETE ENDWALLS



1" WIDE, 12 GA. (0.109" THICK) GALVANIZED STRAP WITH STANDARD 6" X 1/2" BAND BOLT AND NUT



ALTERNATE FOR TYPE 1 CONNECTION
END SECTION CONNECTOR STRAP



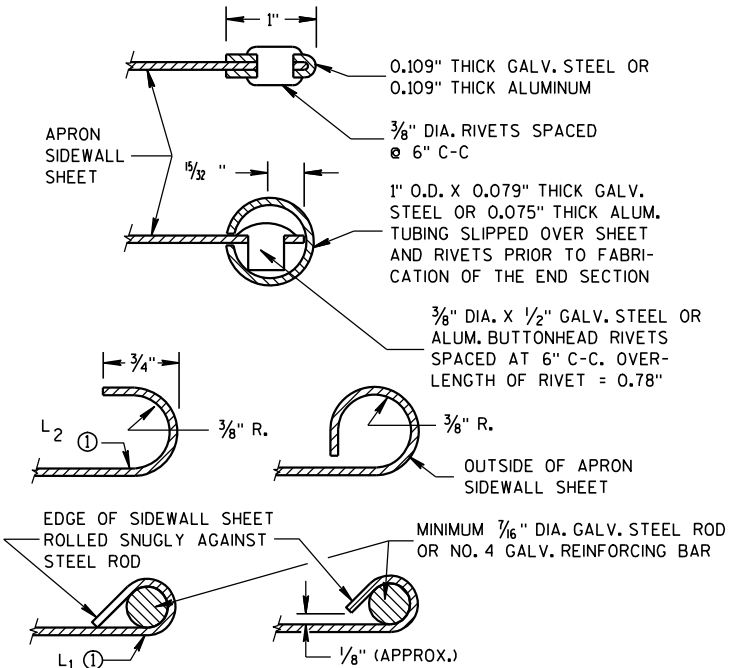
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL, AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



SECTION A-A

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.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

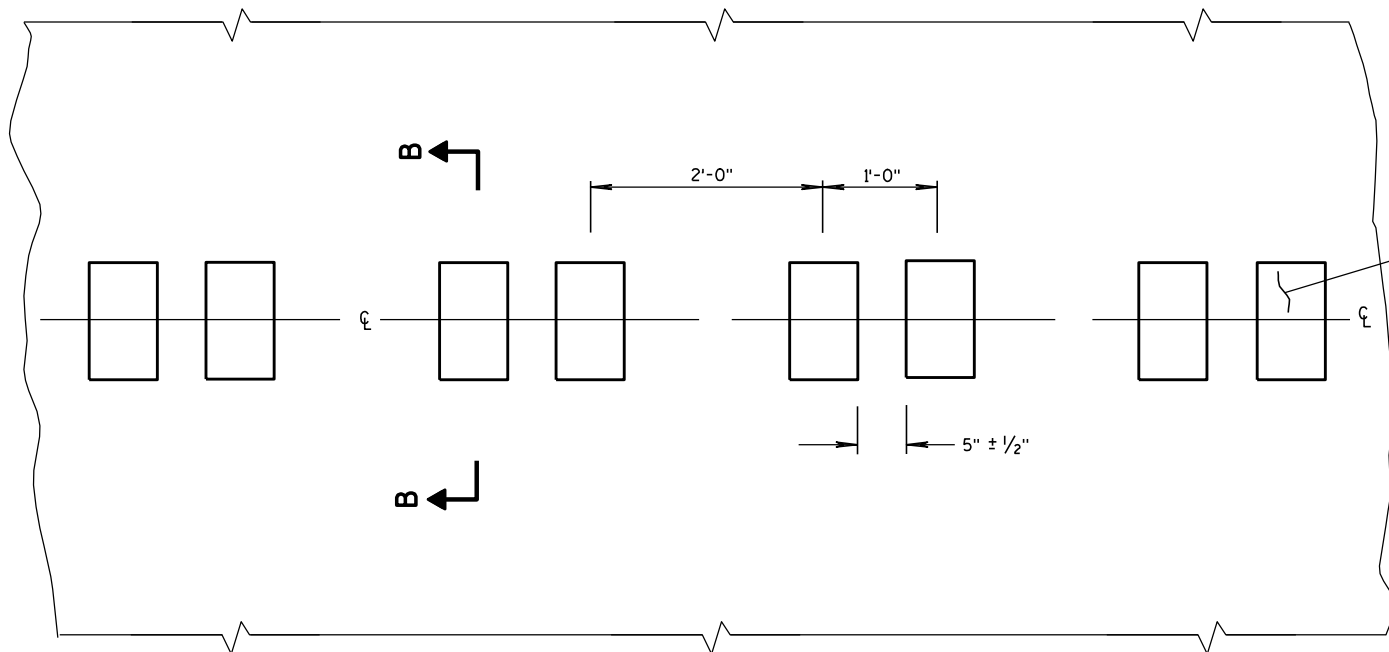
WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR
CULVERT PIPE

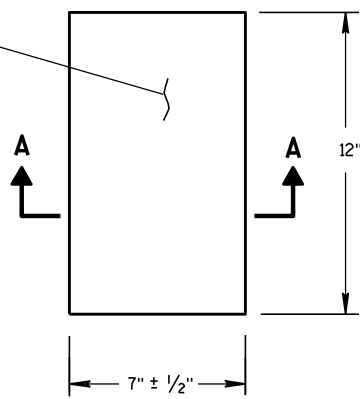
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94
DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA



PLAN VIEW
CENTER LINE WITH GROOVES

6
6
PLACEMENT DETAIL FOR MILLED RUMBLE STRIP

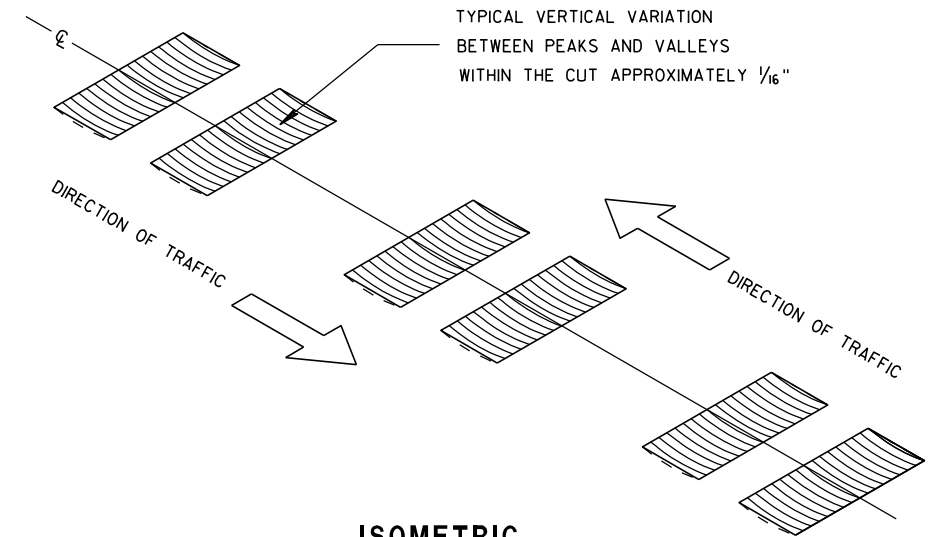


PLAN VIEW
(SINGLE GROOVE)

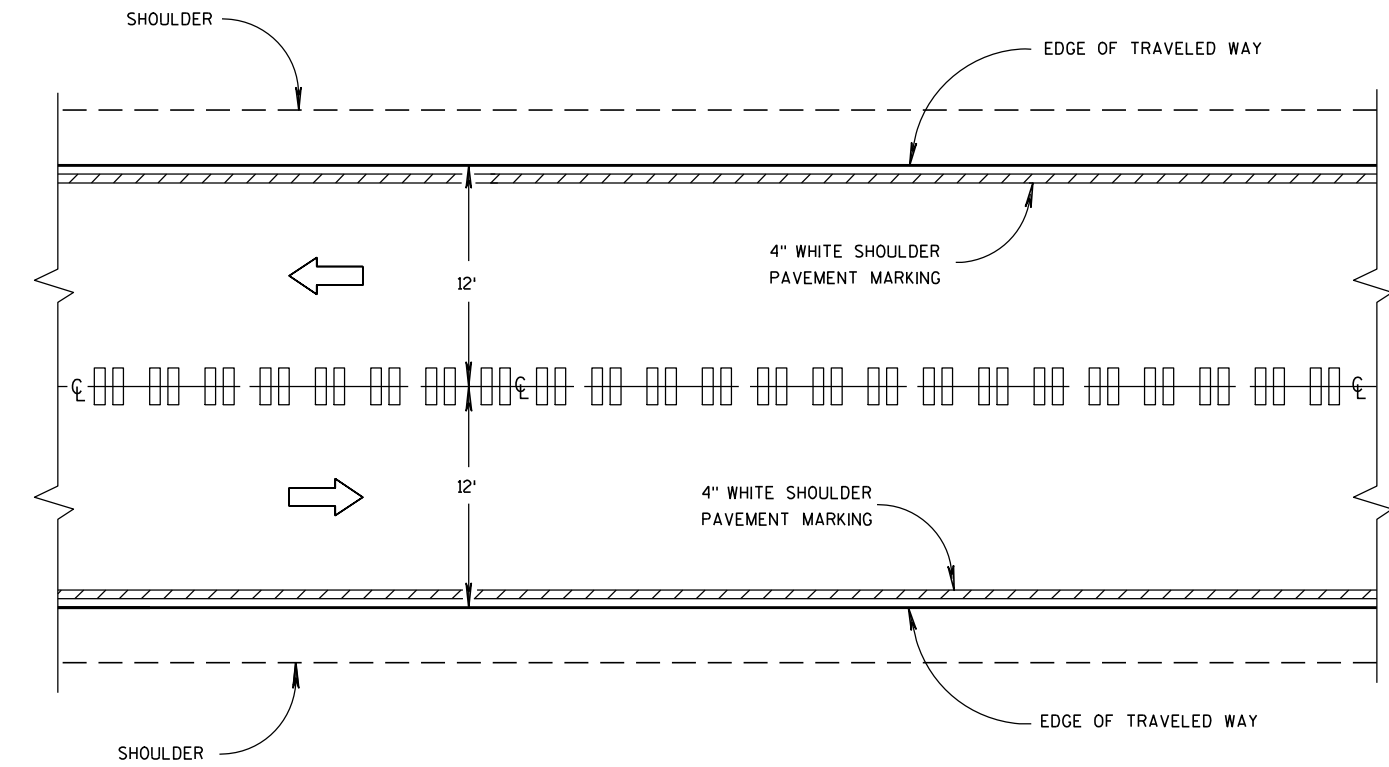
GENERAL NOTES

DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.
DO NOT MILL CENTER LINE GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.
SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

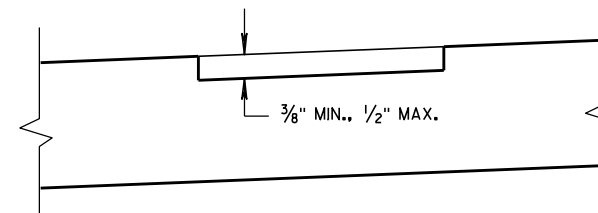
- ① CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



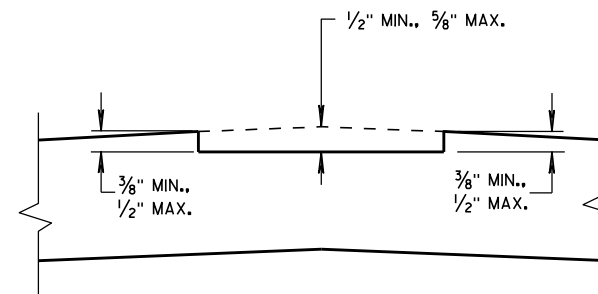
ISOMETRIC



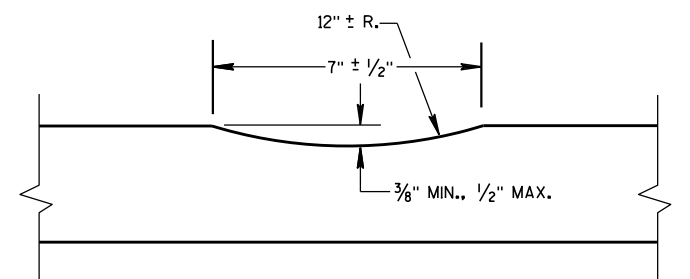
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



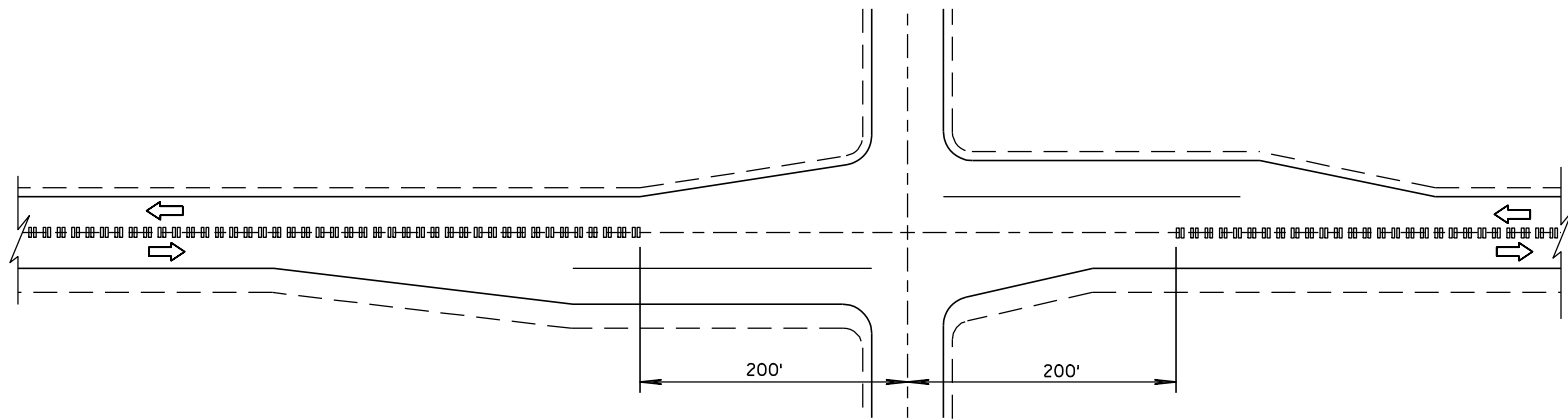
SECTION B-B
CROWNED ROADWAY



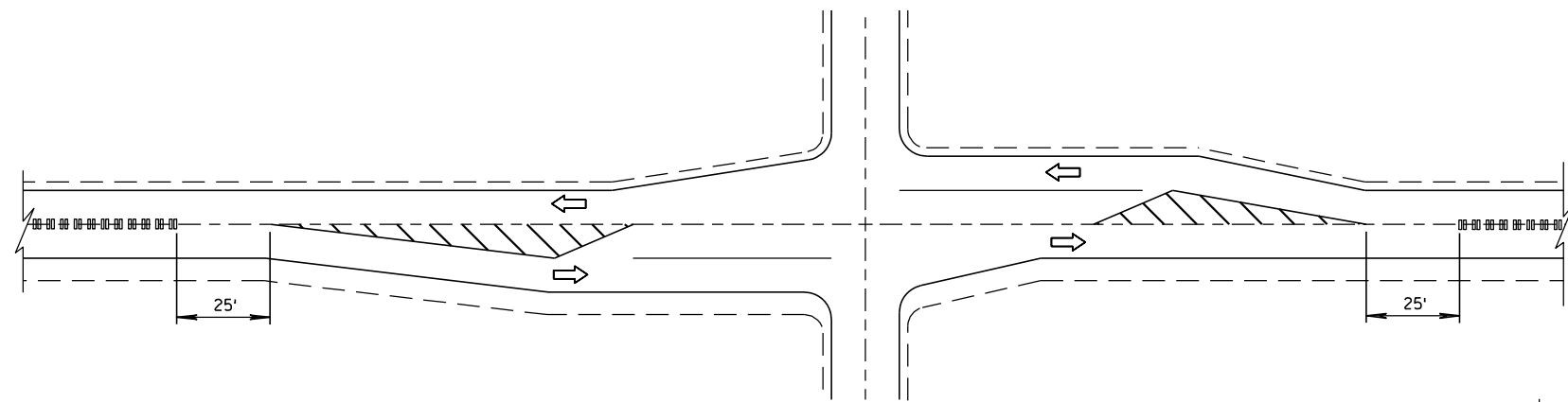
SECTION A-A

2-LANE RURAL
CENTER LINE RUMBLE STRIP,
MILLING

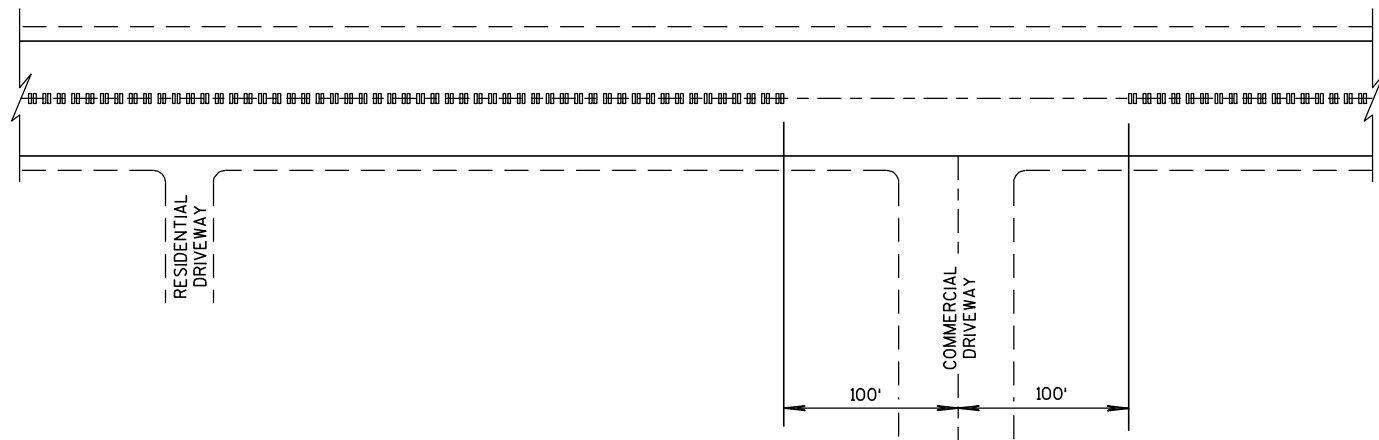
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



CENTER LINE GROOVES AT INTERSECTIONS

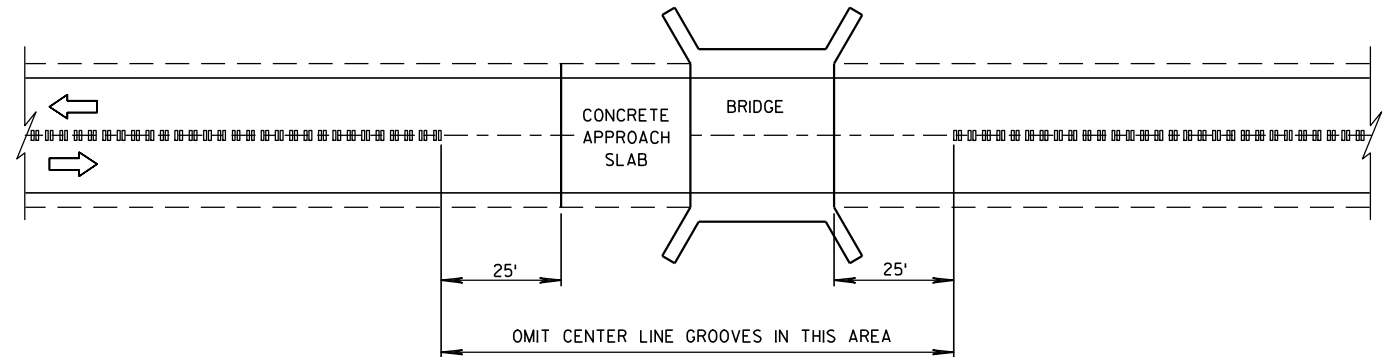


CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)

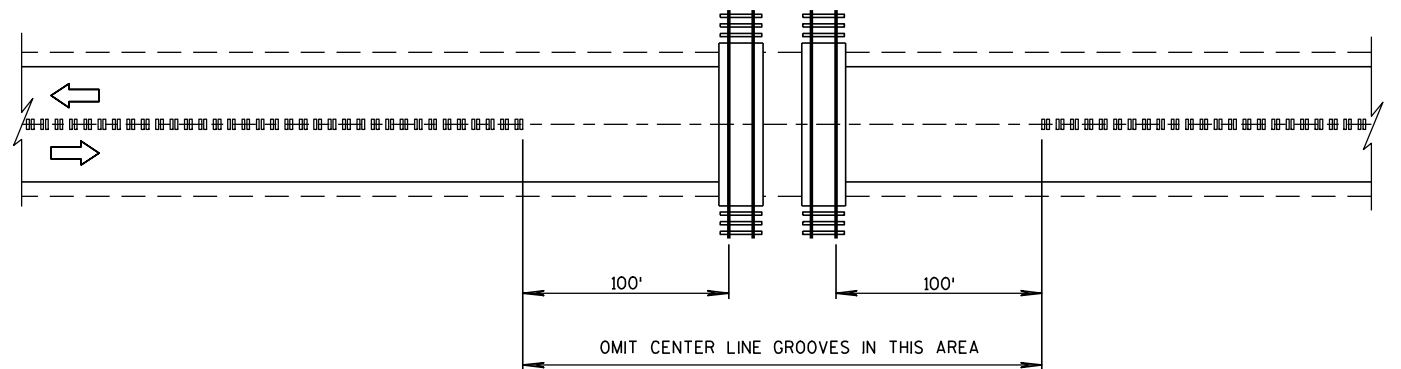


CENTER LINE GROOVES AT DRIVEWAYS ¹

¹ CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.

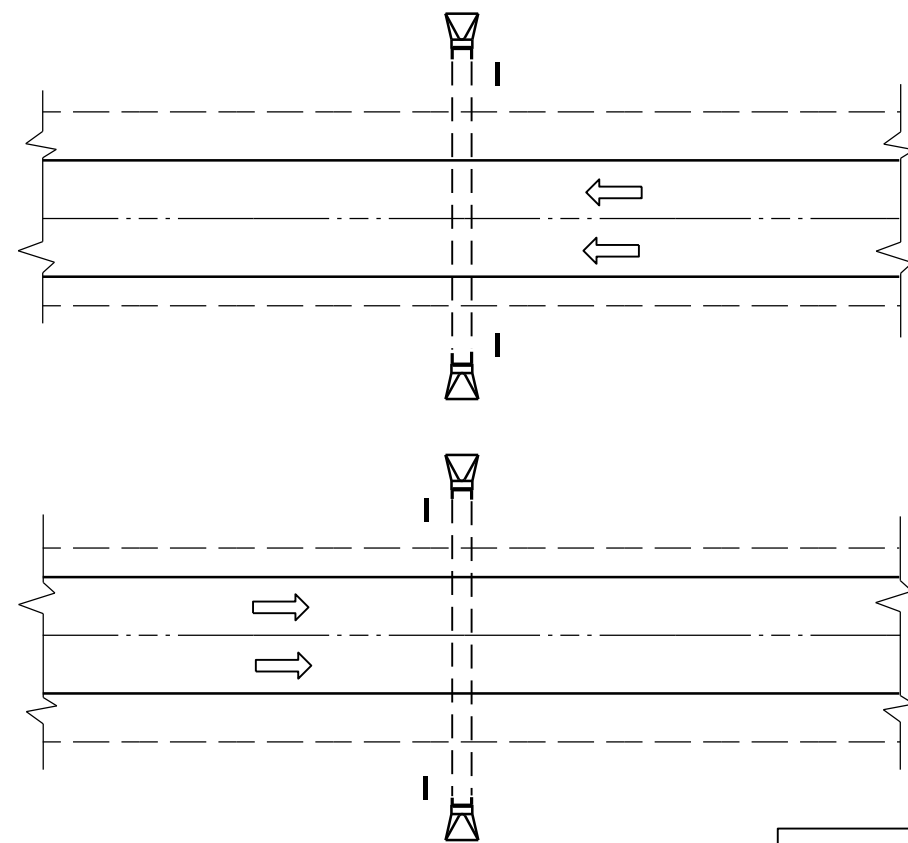


CENTER LINE GROOVES AT BRIDGES

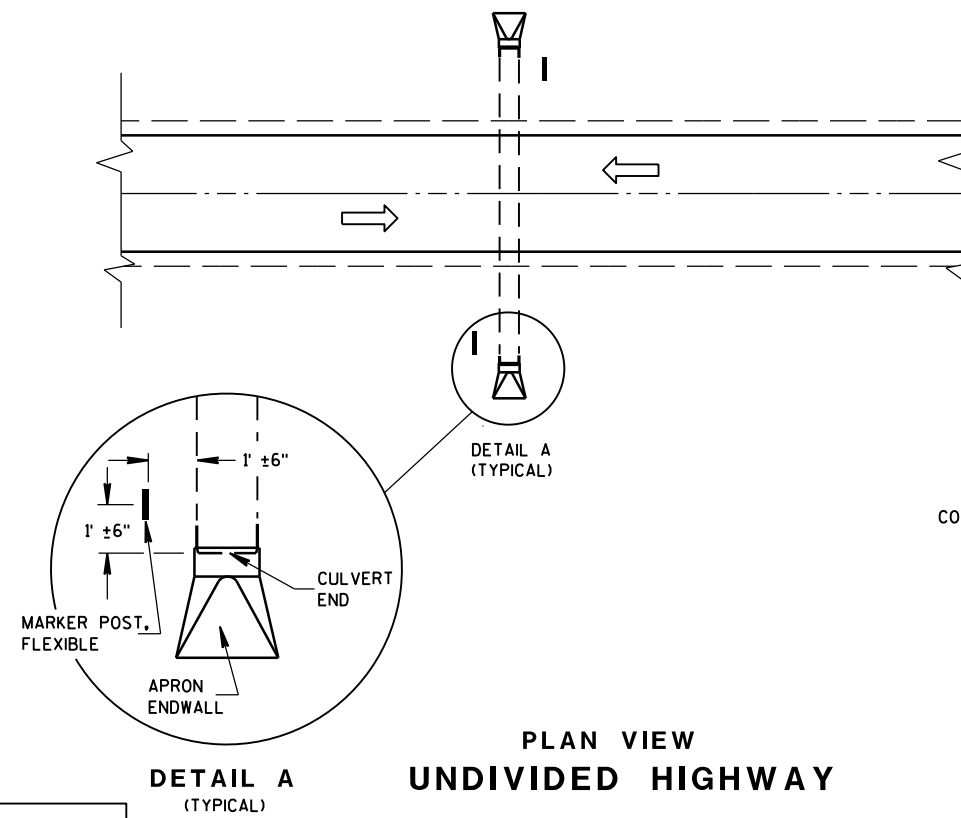
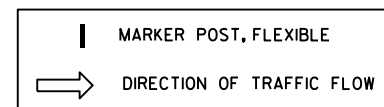


CENTER LINE GROOVES AT RAILROADS

2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 8/28/2012 DATE	/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA	



PLAN VIEW
DIVIDED HIGHWAY

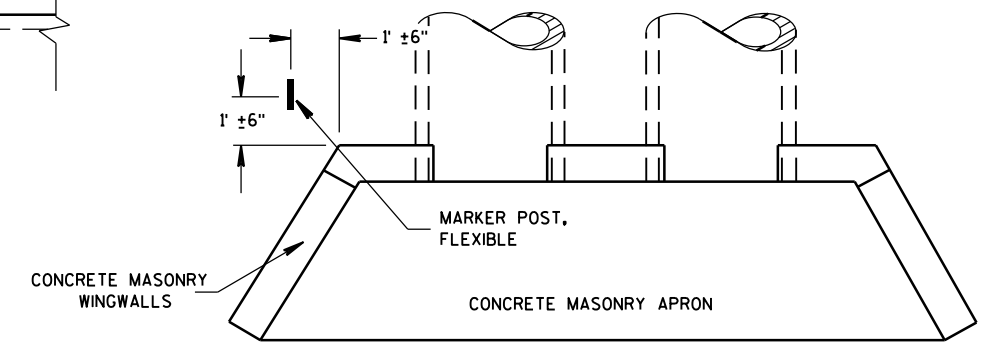


PLAN VIEW
UNDIVIDED HIGHWAY

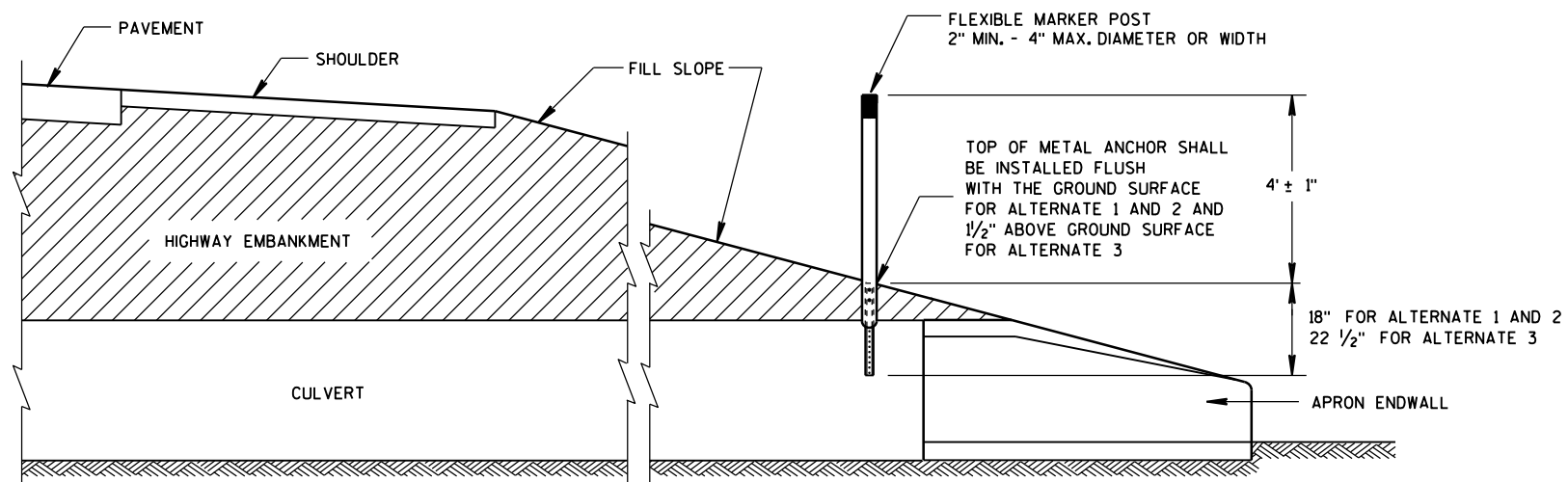
FLEXIBLE MARKER POST LOCATION

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.



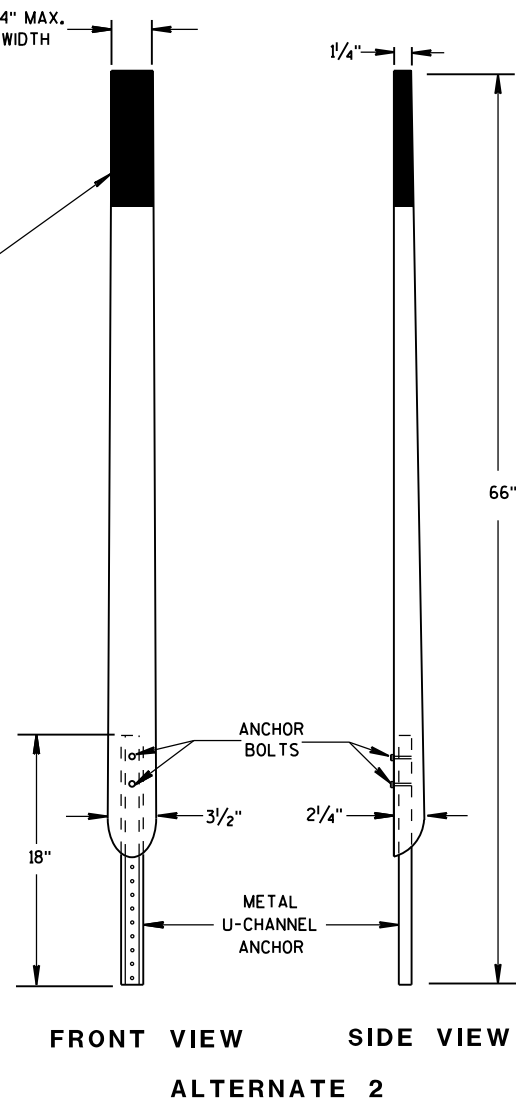
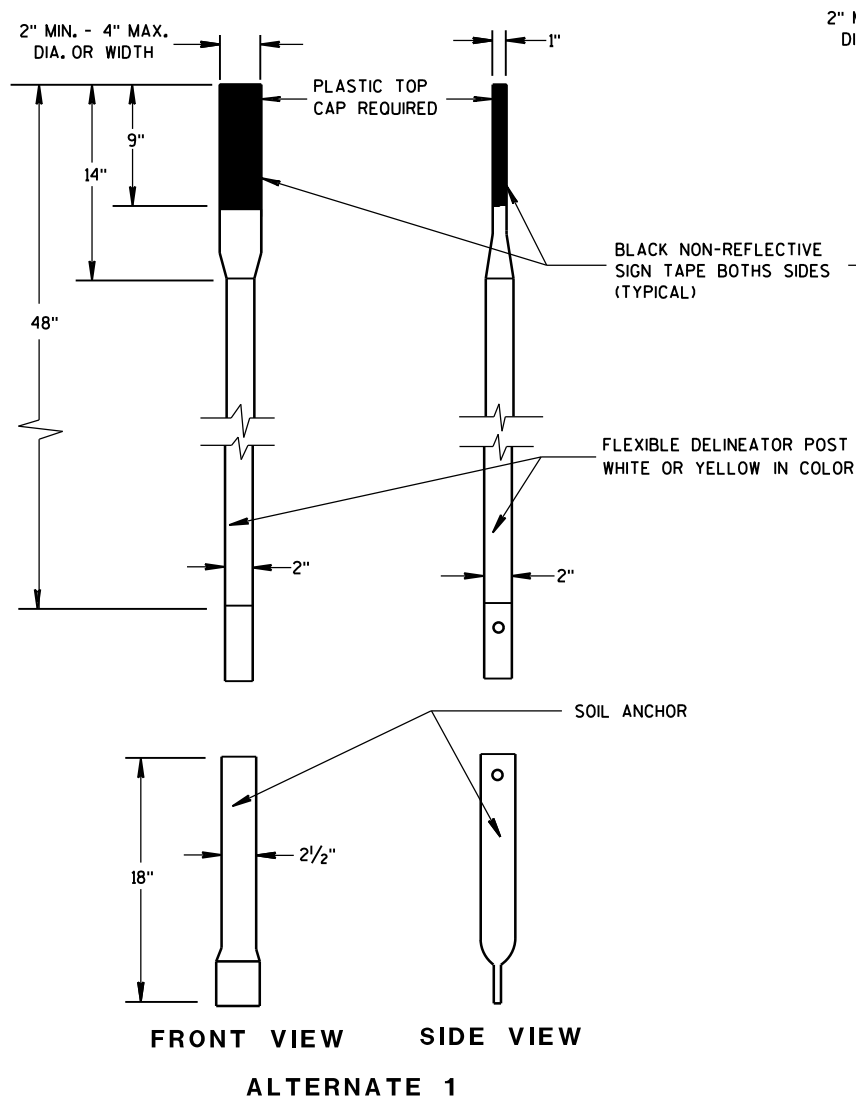
PLAN VIEW
CONCRETE MASONRY ENDWALLS FOR
CULVERT PIPE AND PIPE ARCH



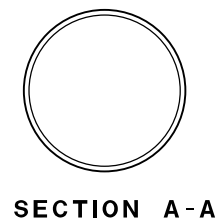
CROSS SECTION
FLEXIBLE MARKER POST

FLEXIBLE MARKER POST
FOR CULVERT END

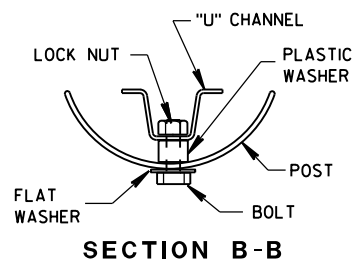
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



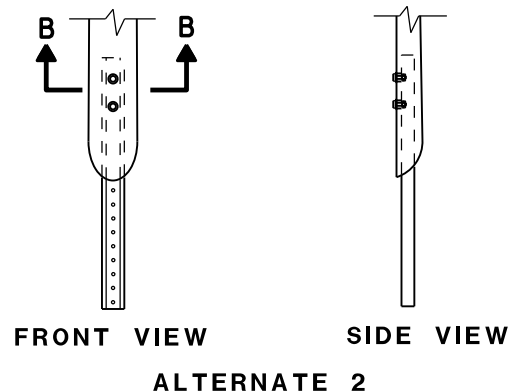
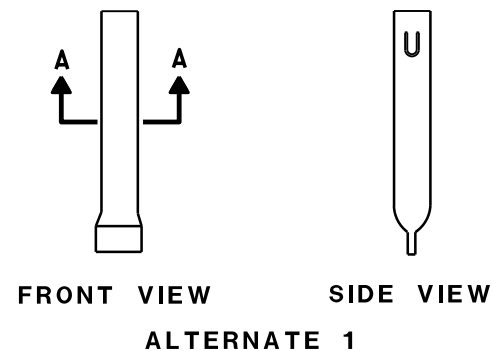
FLEXIBLE MARKER POSTS



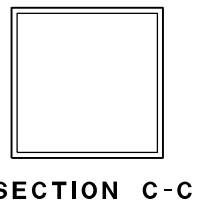
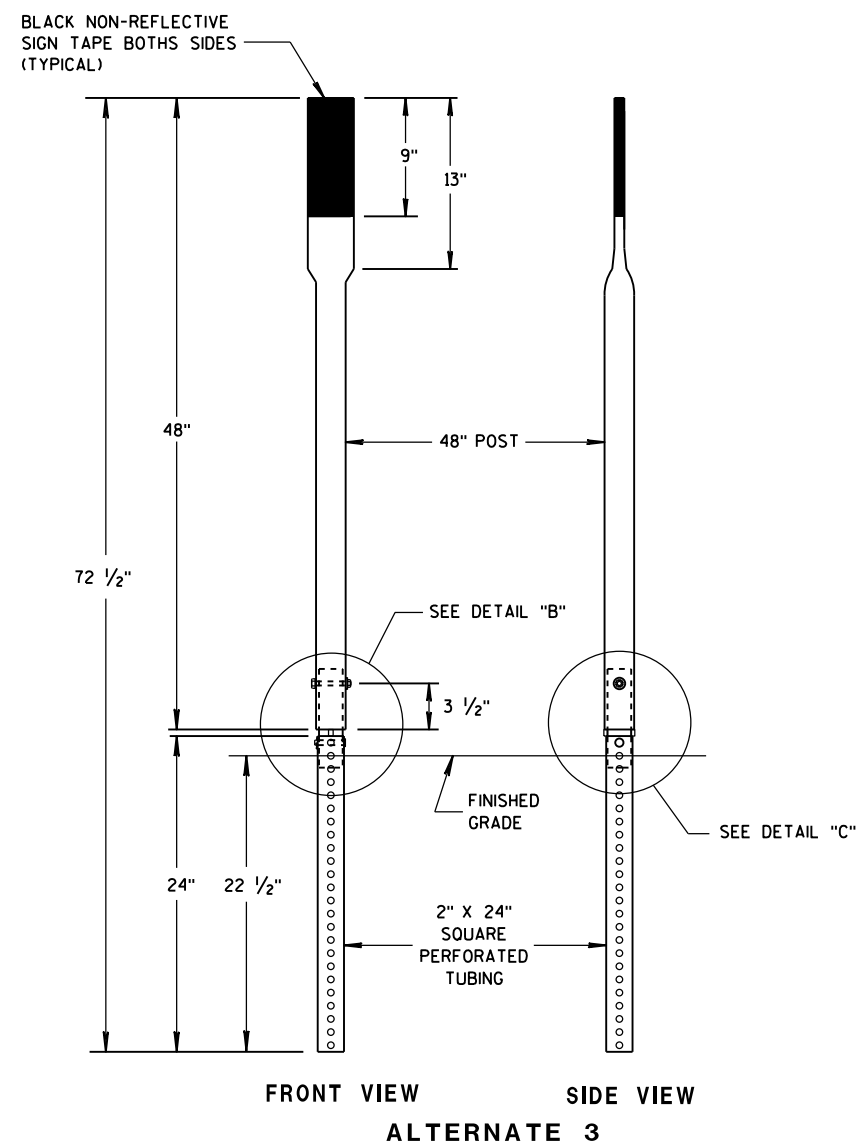
SECTION A-A



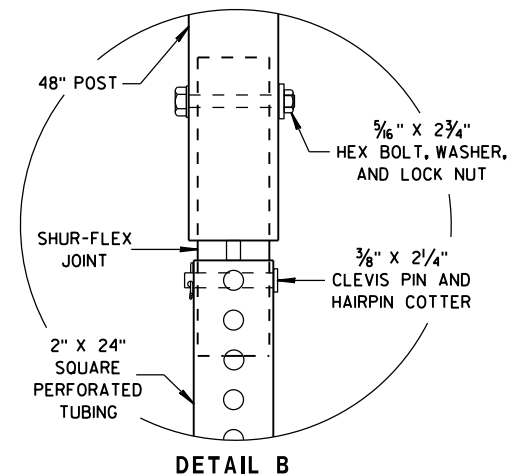
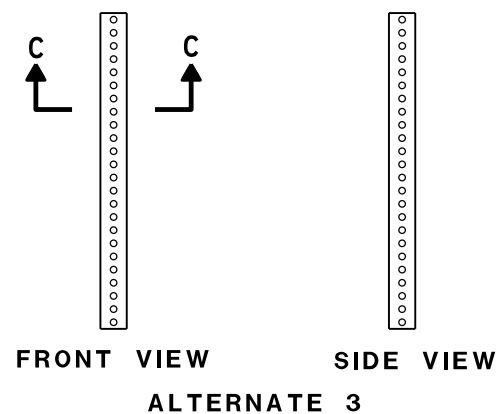
SECTION B-B



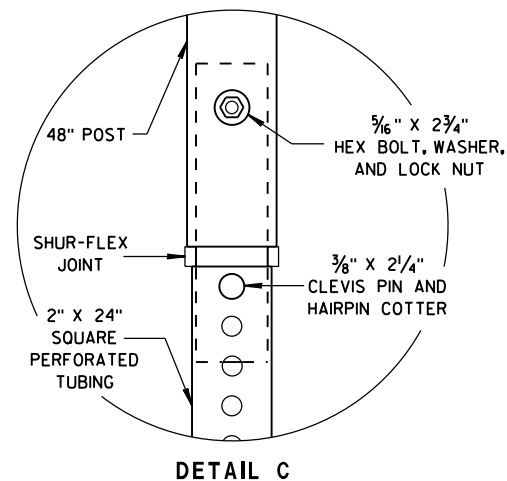
FLEXIBLE MARKER POST ANCHORS



SECTION C-C



DETAIL B

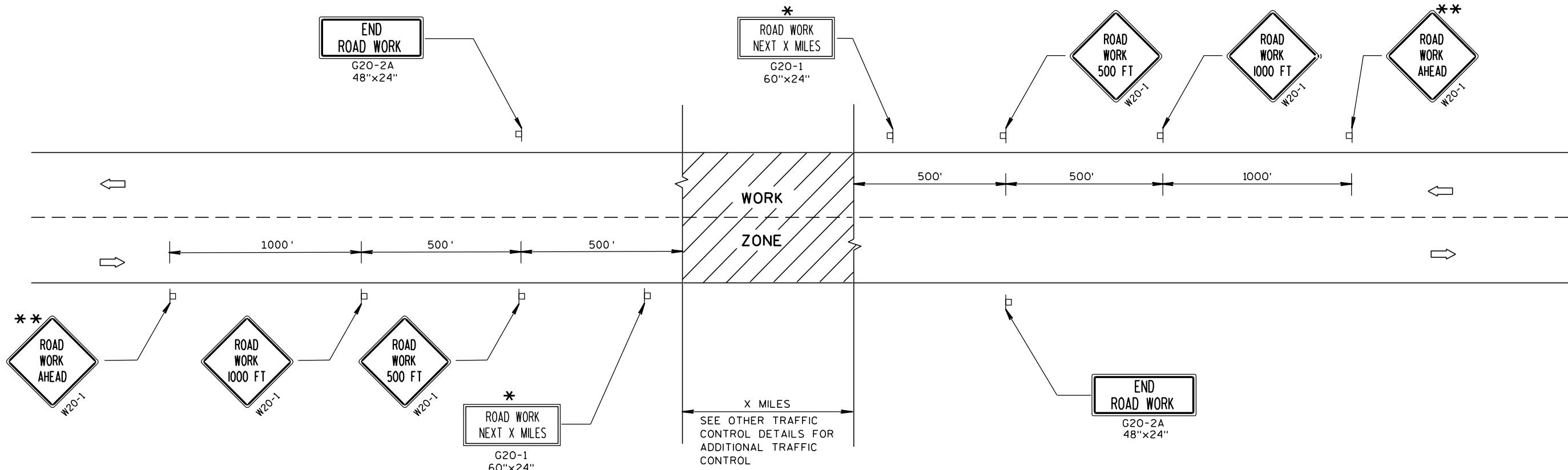


DETAIL C

FLEXIBLE MARKER POST FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

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

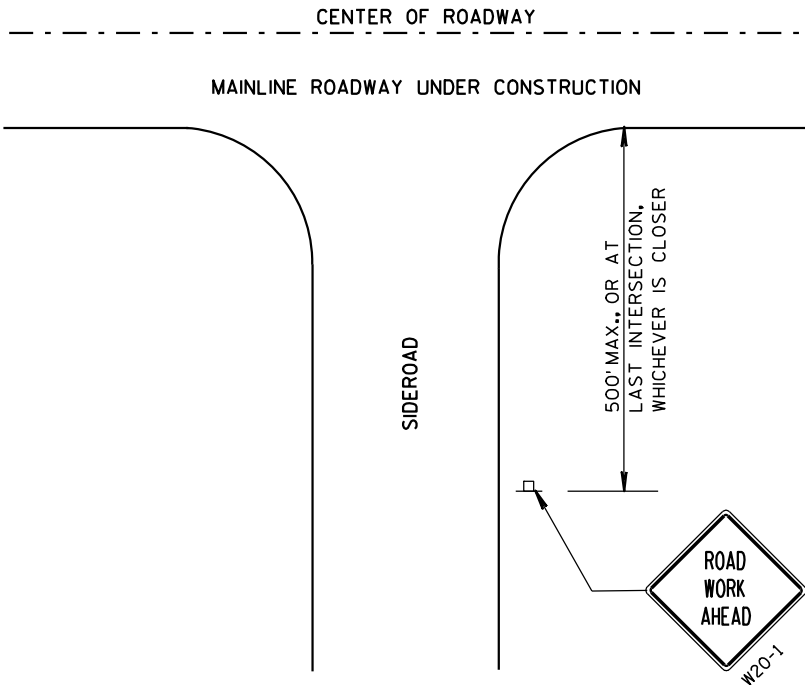
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

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

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

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



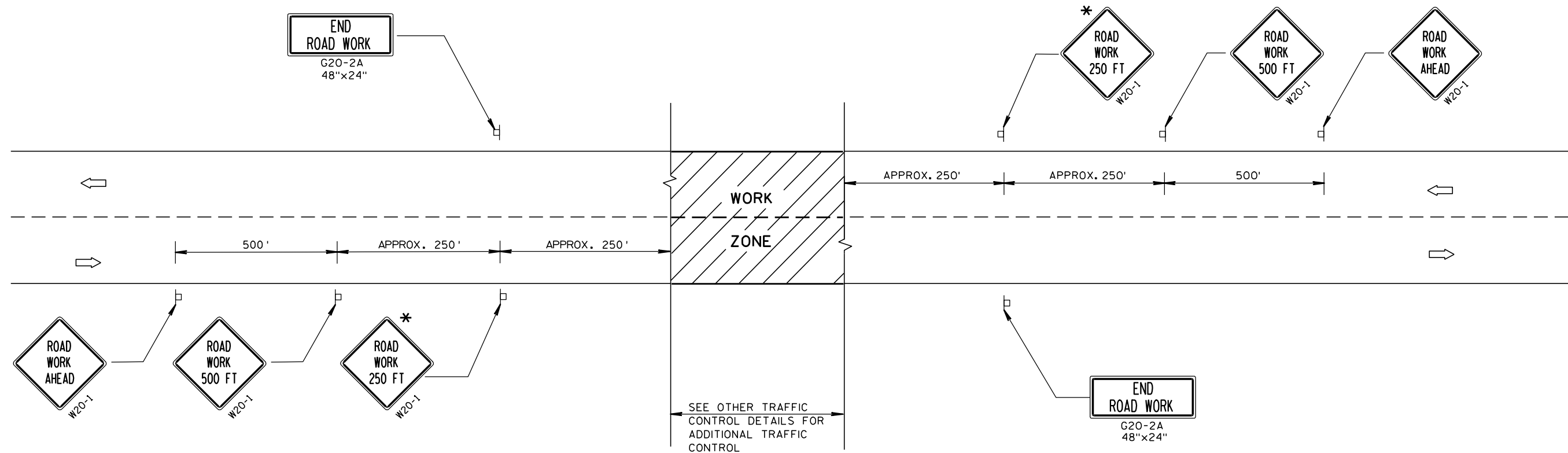
LEGEND

- POST MOUNTED SIGN
- DIRECTION OF TRAFFIC FLOW

TRAFFIC CONTROL, ADVANCE
WARNING SIGNS 45 M.P.H.
OR GREATER TWO-WAY
UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/00 /S/ Chester J. Spang
DATE CHIEF SIGNS AND MARKING ENGINEER
FHWA



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

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

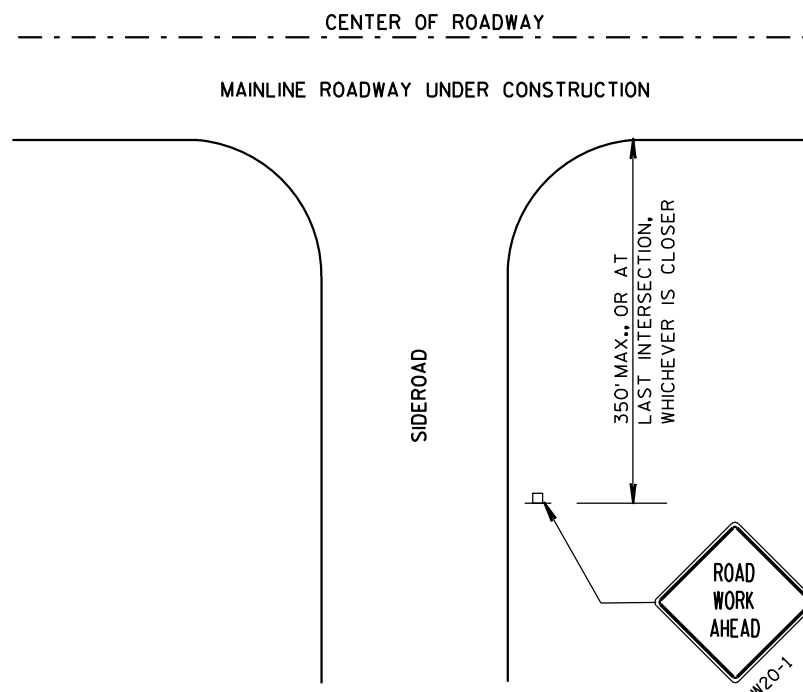
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS, IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

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

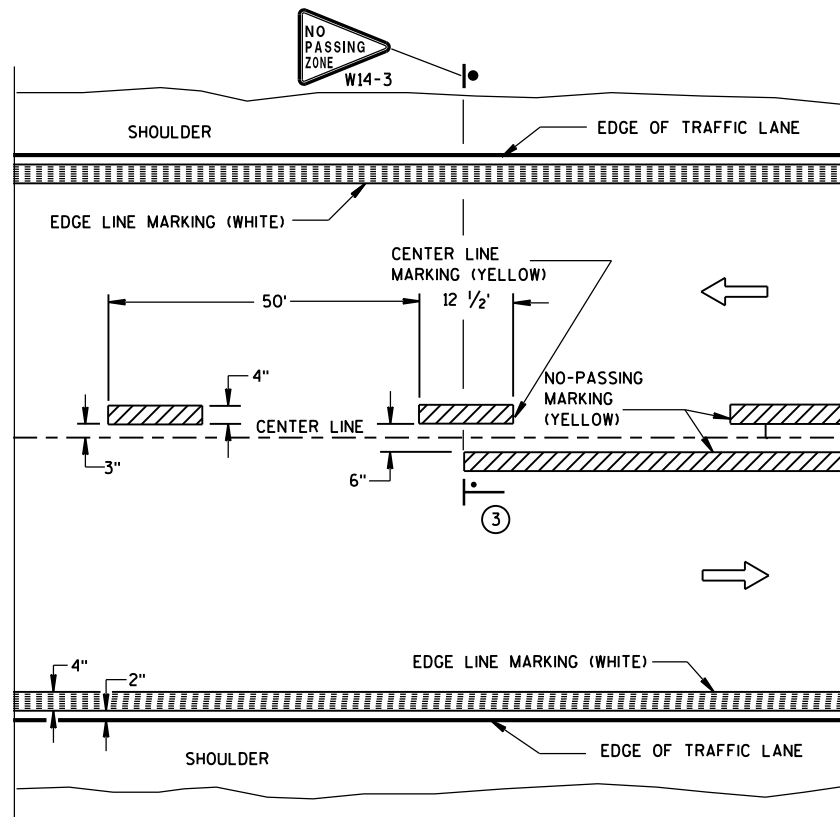
* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



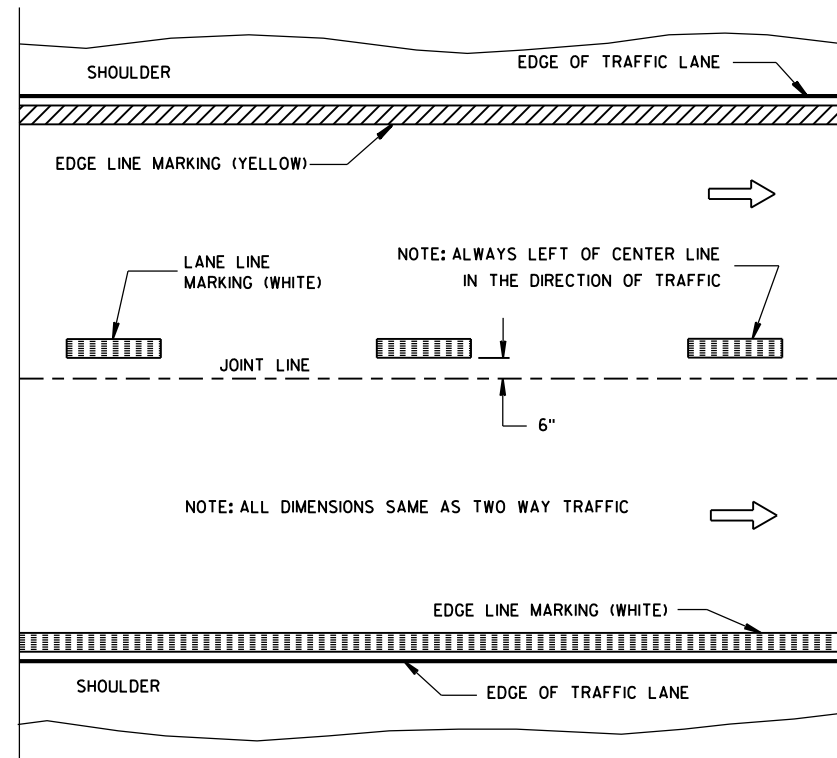
LEGEND

- POST MOUNTED SIGN
- ➡ DIRECTION OF TRAFFIC FLOW

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 5/23/00 DATE	/S/ Chester J. Spang CHIEF SIGNS AND MARKING ENGINEER
FHWA	

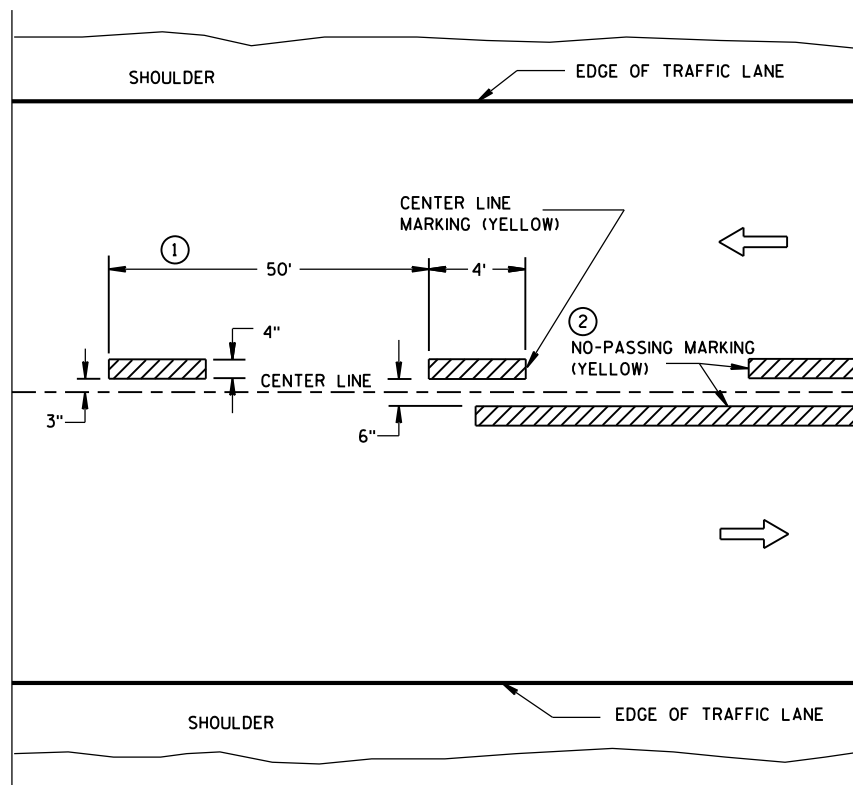


TWO WAY TRAFFIC

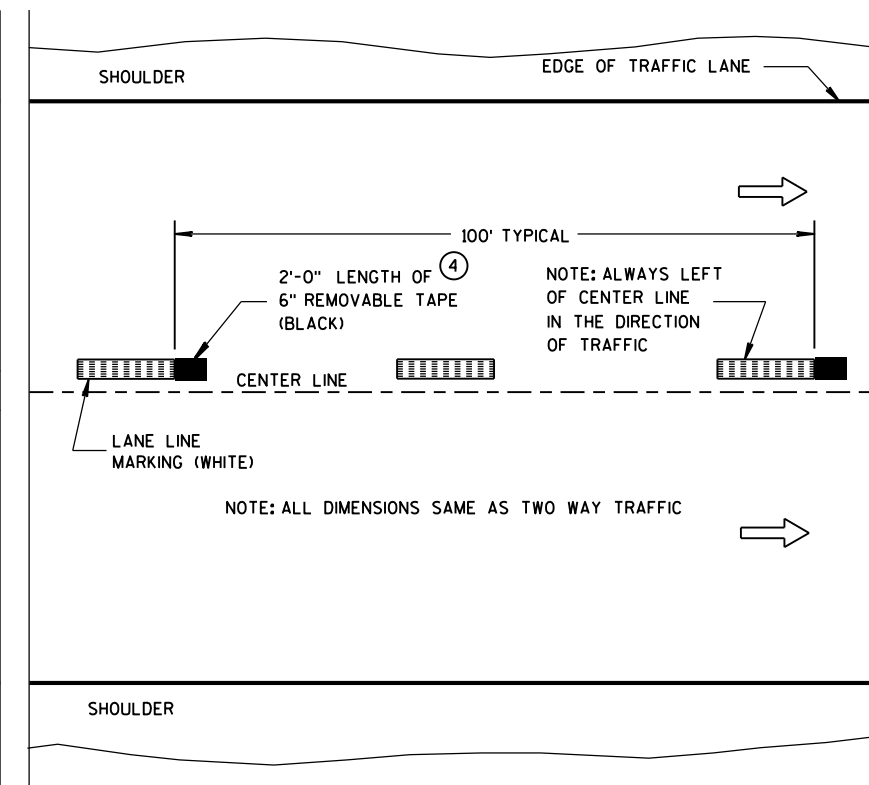


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING
(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

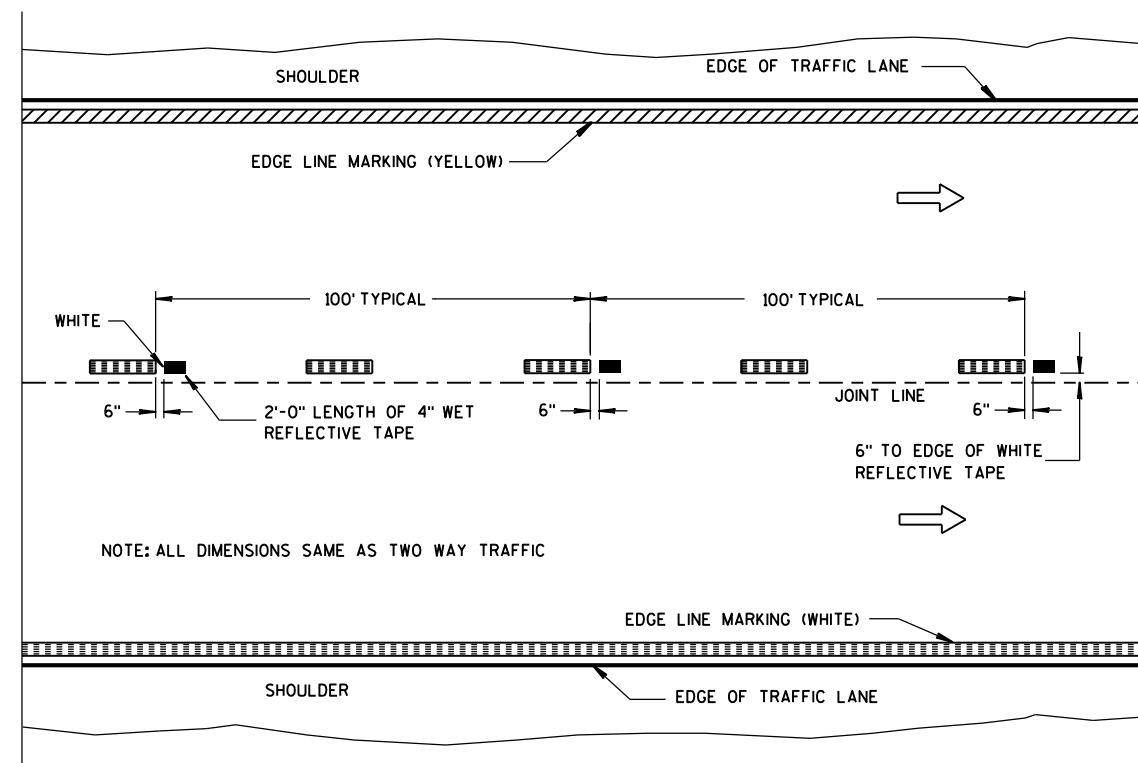
GENERAL NOTES

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

- ① HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
- ② NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
- ③ NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
- ④ CONCRETE ONLY.

NOTE

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

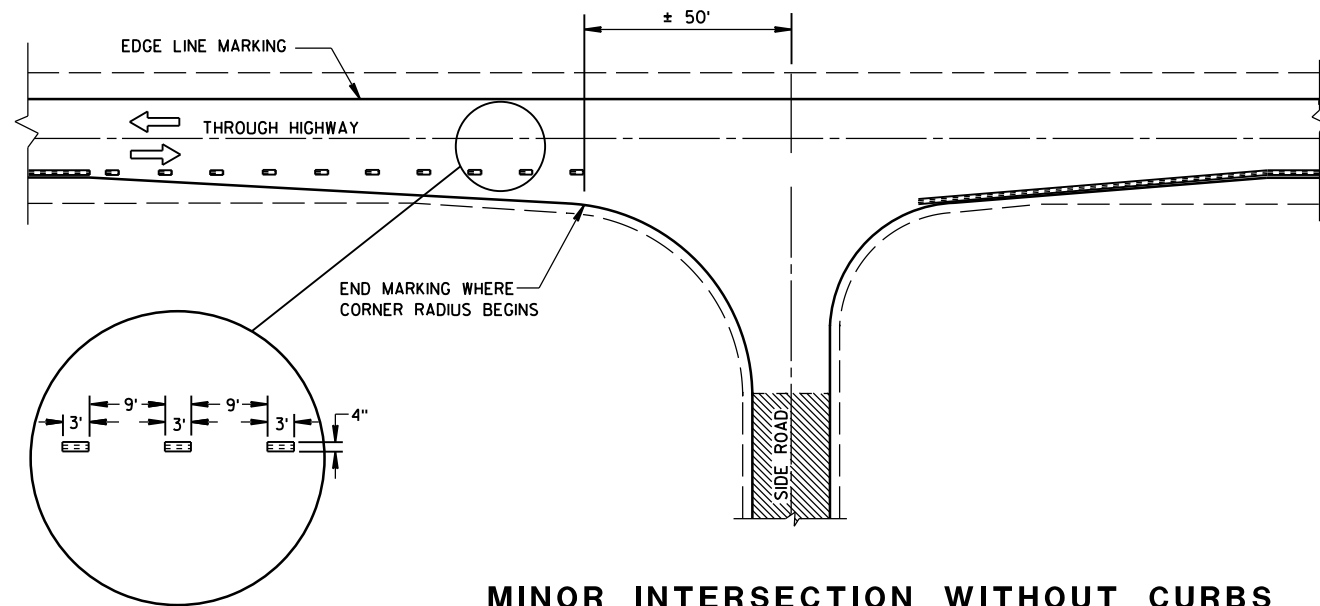
LEGEND

- "T" MARKING
- POST MOUNTED SIGN

PAVEMENT MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

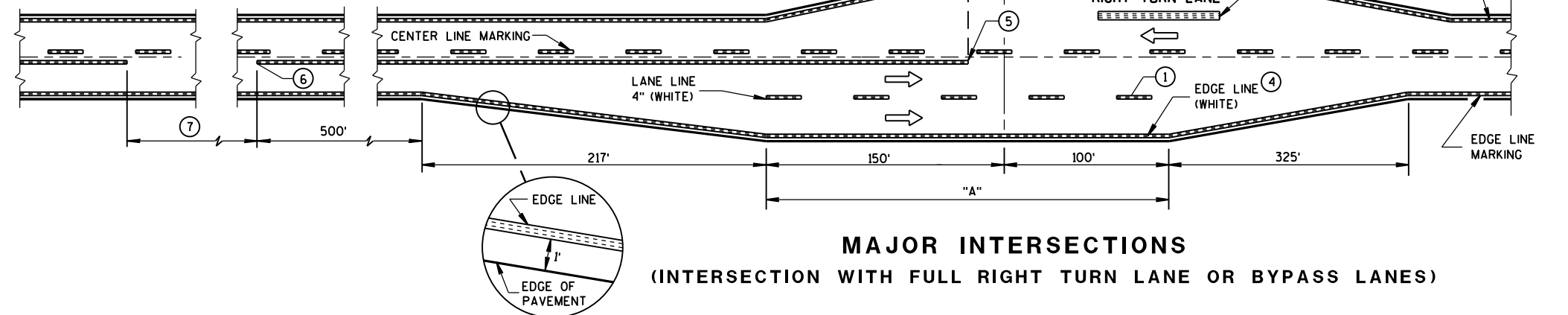
APPROVED
10-1-2012 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA



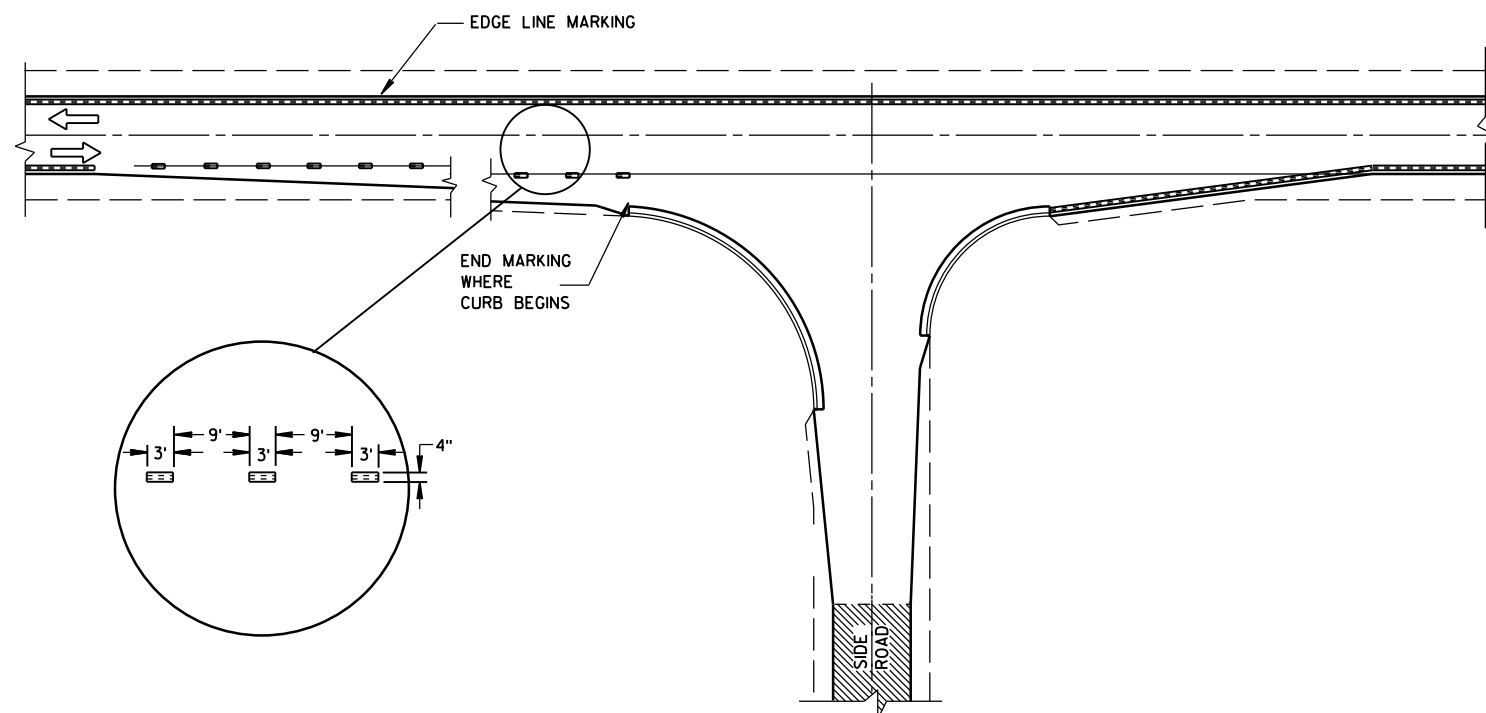
MINOR INTERSECTION WITHOUT CURBS

⑦

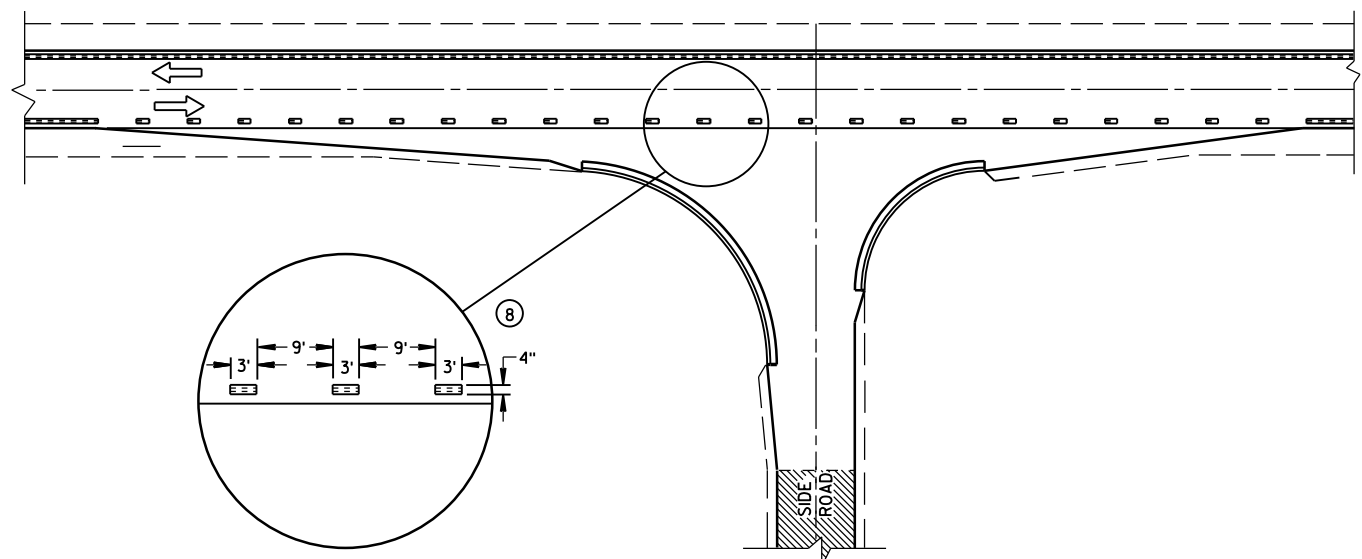
POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



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



MINOR INTERSECTION WITH CURBS
(TYPICAL MARKING)



MINOR INTERSECTION WITH CURBS
③ (FOR SPECIAL CONDITIONS AS SPECIFIED)

GENERAL NOTES


- EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED 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 ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.
 - ④ THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.
 - ⑤ BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.
 - ⑥ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
 - ⑦ IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.
 - ⑧ 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL

PAVEMENT MARKING
(INTERSECTIONS)


STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

TWO-LANE ROADWAY


SYMBOLS



WORK AREA



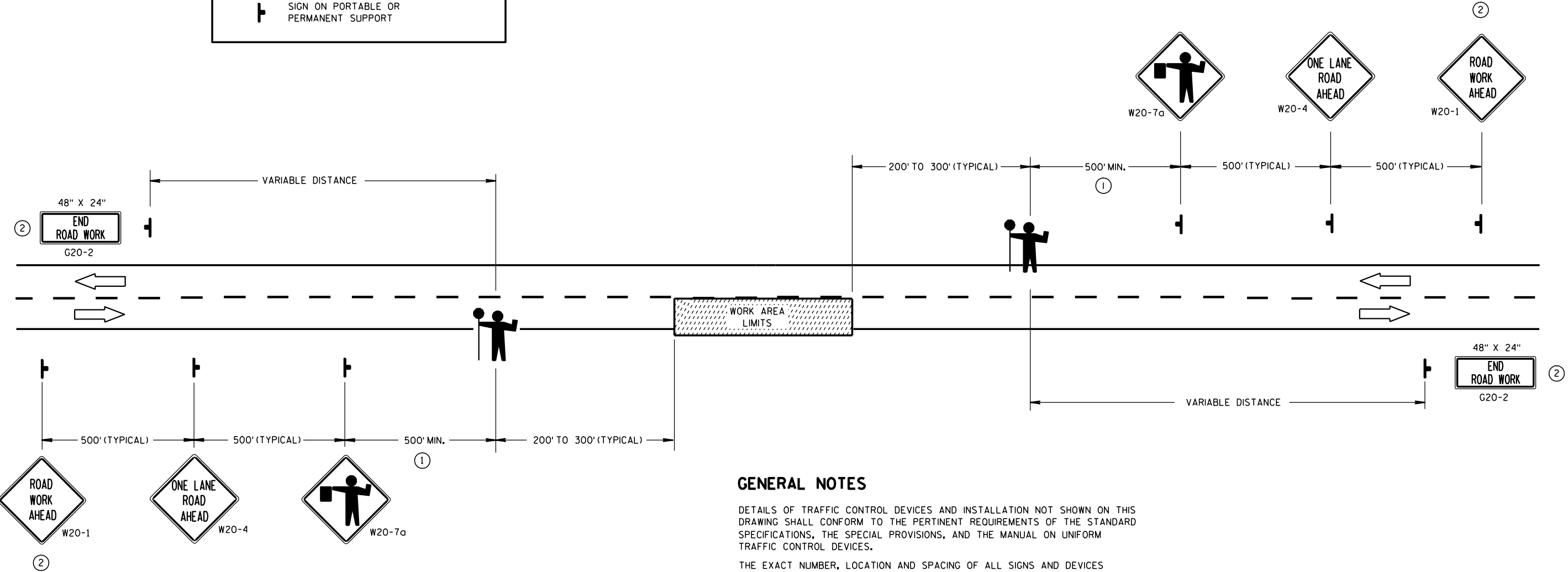
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF



SIGN ON PORTABLE OR PERMANENT SUPPORT



USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



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.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE 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.

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, THE "FLAGGER AHEAD", THE "ROAD WORK AHEAD" AND THE ONE LANE ROAD AHEAD" SIGNS SHALL BE COVERED OR REMOVED AND THE HIGHWAY RESTORED TO NORMAL OPERATION.

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

- ① FOR A MOVING WORK OPERATION, SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT 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.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

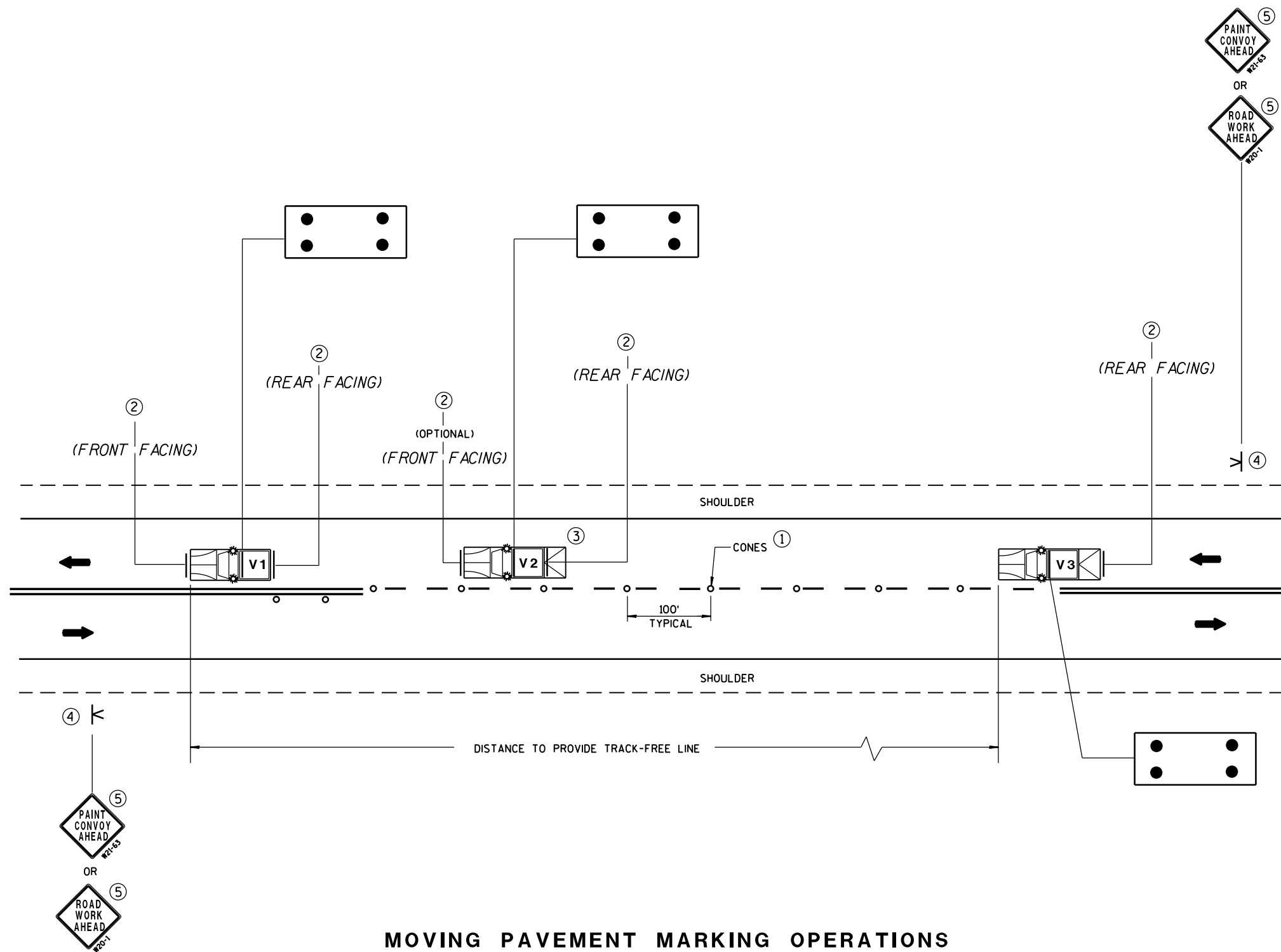
9/5/06

DATE

/S/ Thomas N. Notbohm

STATE TRAFFIC ENGINEER OF DESIGN

FHWA



MOVING PAVEMENT MARKING OPERATIONS TWO-LANE TWO-WAY ROADWAY

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.

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.

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

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 OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

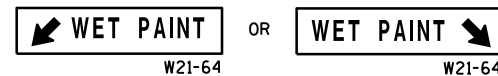
THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

① CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

② USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.



③ OPTIONAL TRUCK-MOUNTED ATTENUATOR.

④ SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

⑤ IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

V1 LEAD VEHICLE

V2 SHADOW VEHICLE

V3 TRAIL VEHICLE WITH TMA

TMA TRUCK-MOUNTED ATTENUATOR

K SIGN ON PORTABLE SUPPORT

→ DIRECTION OF TRAVEL

o CONES

⋮ FLASHING ARROW PANEL (CAUTION)

MOVING PAVEMENT MARKING
OPERATION
TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12/6/2011
DATE

FHWA

/S/ Thomas N. Notbohm
STATE TRAFFIC ENGINEER OF DESIGN

GENERAL NOTES

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

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

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

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

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

W20-1 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.

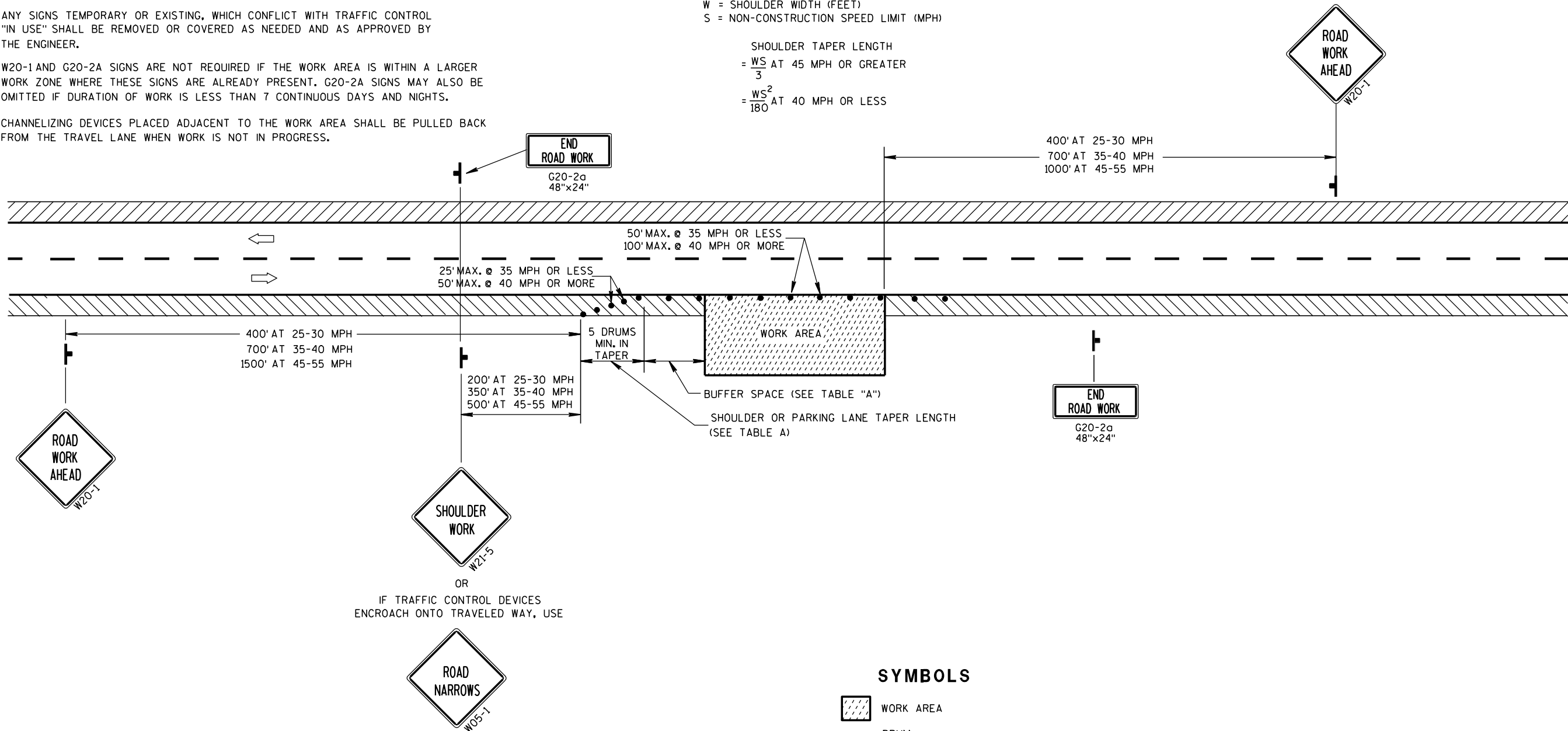
CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

TABLE A

SHOULDER TAPER LENGTH (FEET)					BUFFER SPACE (FEET)
S	W	4	6	8	
30	20	30	40	50	85
35	30	45	55	70	120
40	40	55	75	90	170
45	60	90	120	150	220
50	70	100	135	170	280
55	75	110	150	185	335

W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

SHOULDER TAPER LENGTH
= $\frac{WS}{3}$ AT 45 MPH OR GREATER
= $\frac{WS^2}{180}$ AT 40 MPH OR LESS



SYMBOLS

- WORK AREA
- DRUM
- POST MOUNTED SIGN
- DIRECTION OF TRAFFIC FLOW

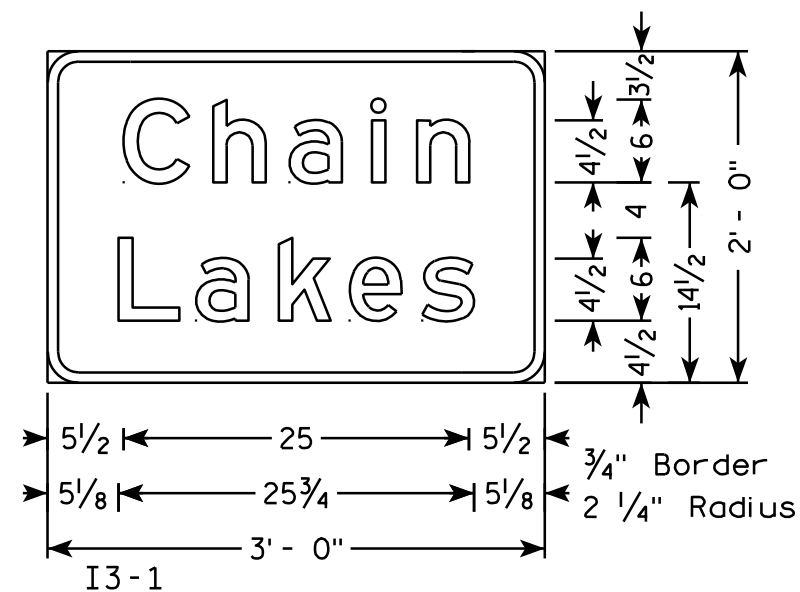
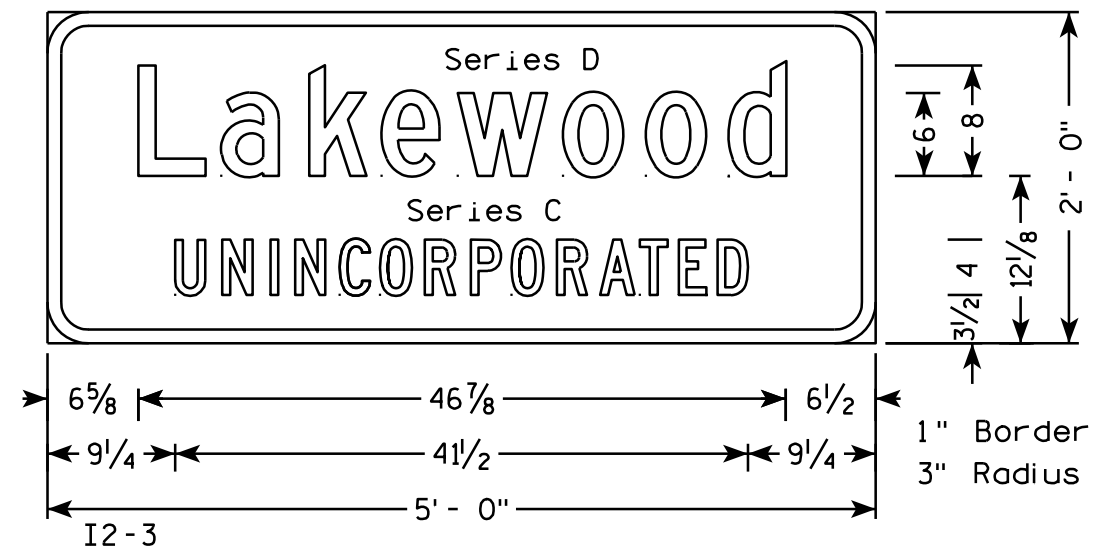
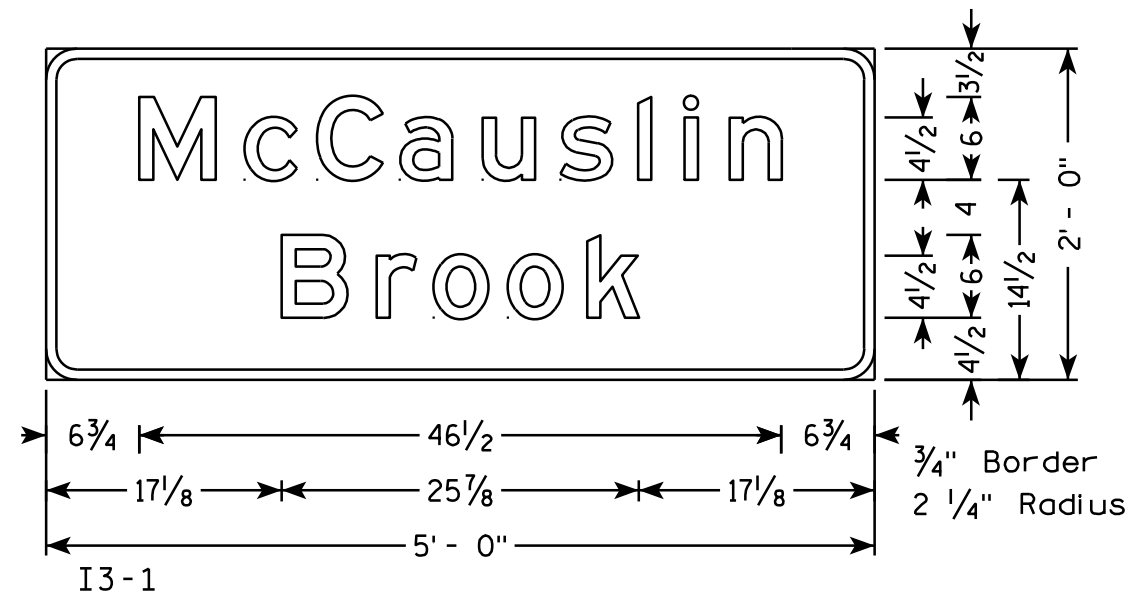
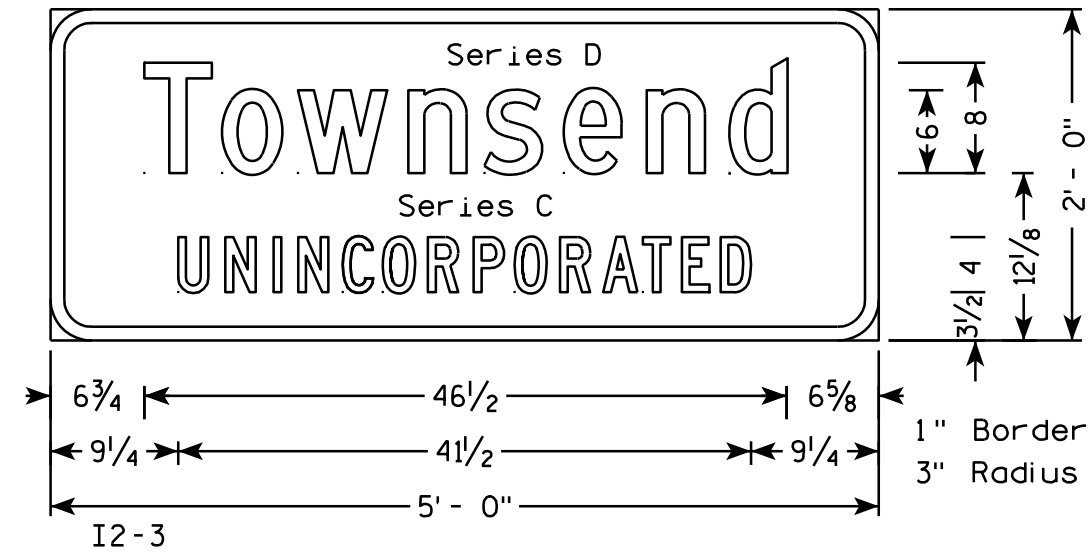
TRAFFIC CONTROL,
WORK ON SHOULDER OR
PARKING LANE,
UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/00 /S/ Chester J. Spang
DATE CHIEF SIGNS AND MARKING ENGINEER
FHWA

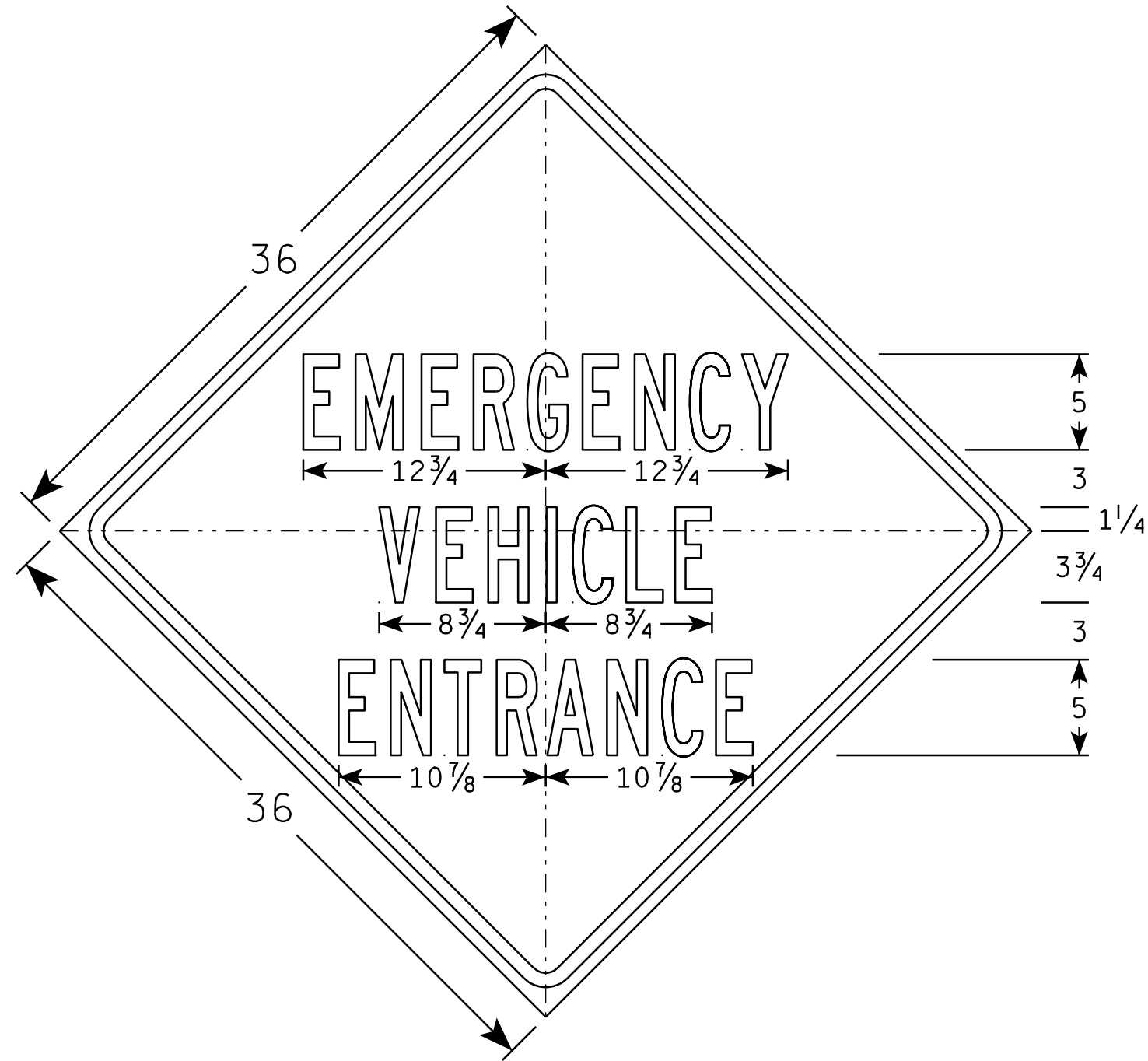
NOTES

1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Green
Message - White
3. Message Series - E except as noted



NOTES

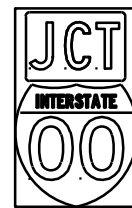
1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Message Series - B



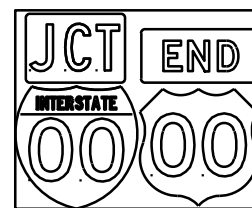
7

7

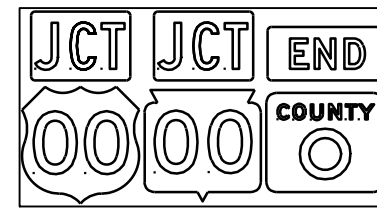
TYPICAL ASSEMBLIES



J1-1



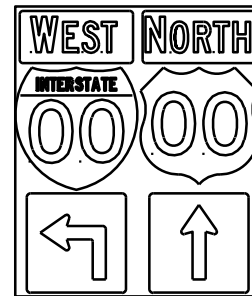
J1-2



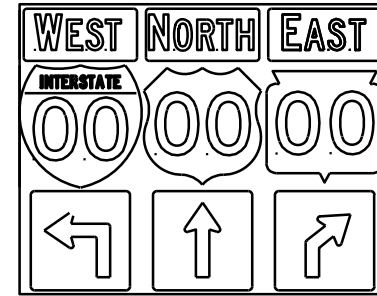
J1-3



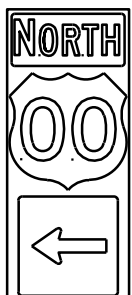
J2-1



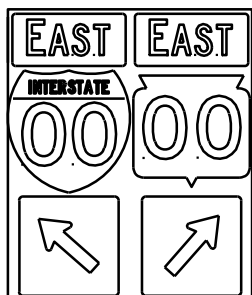
J2-2



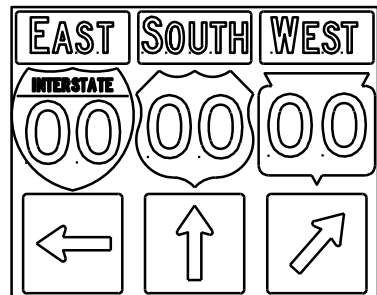
J2-3



J3-1



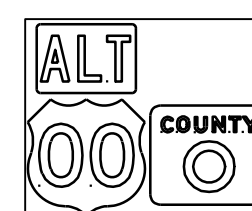
J3-2



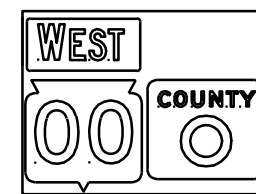
J3-3



J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1



J23-1



J22-1

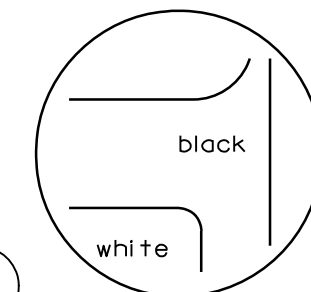
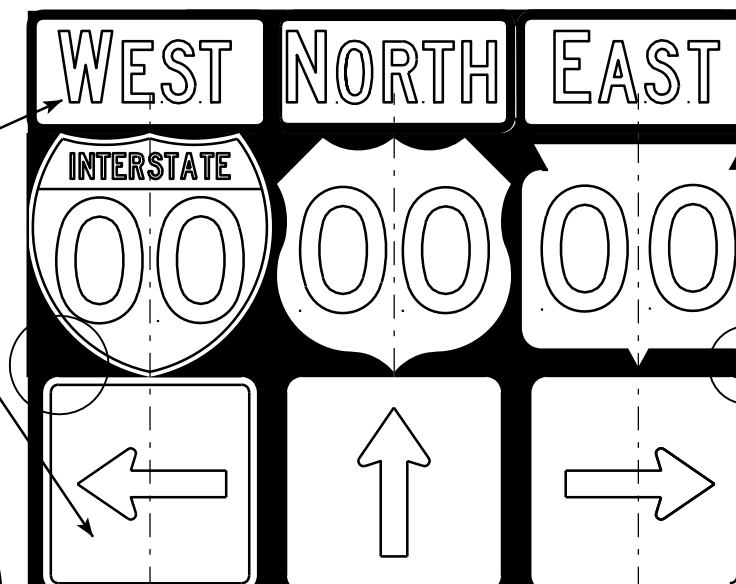
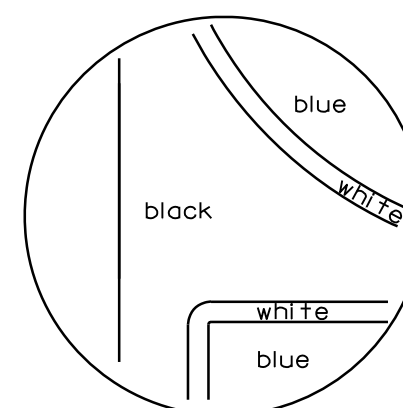


JV

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 since base material is plywood.
- 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 M1-1 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.

[blue background with interstate]



[black background]

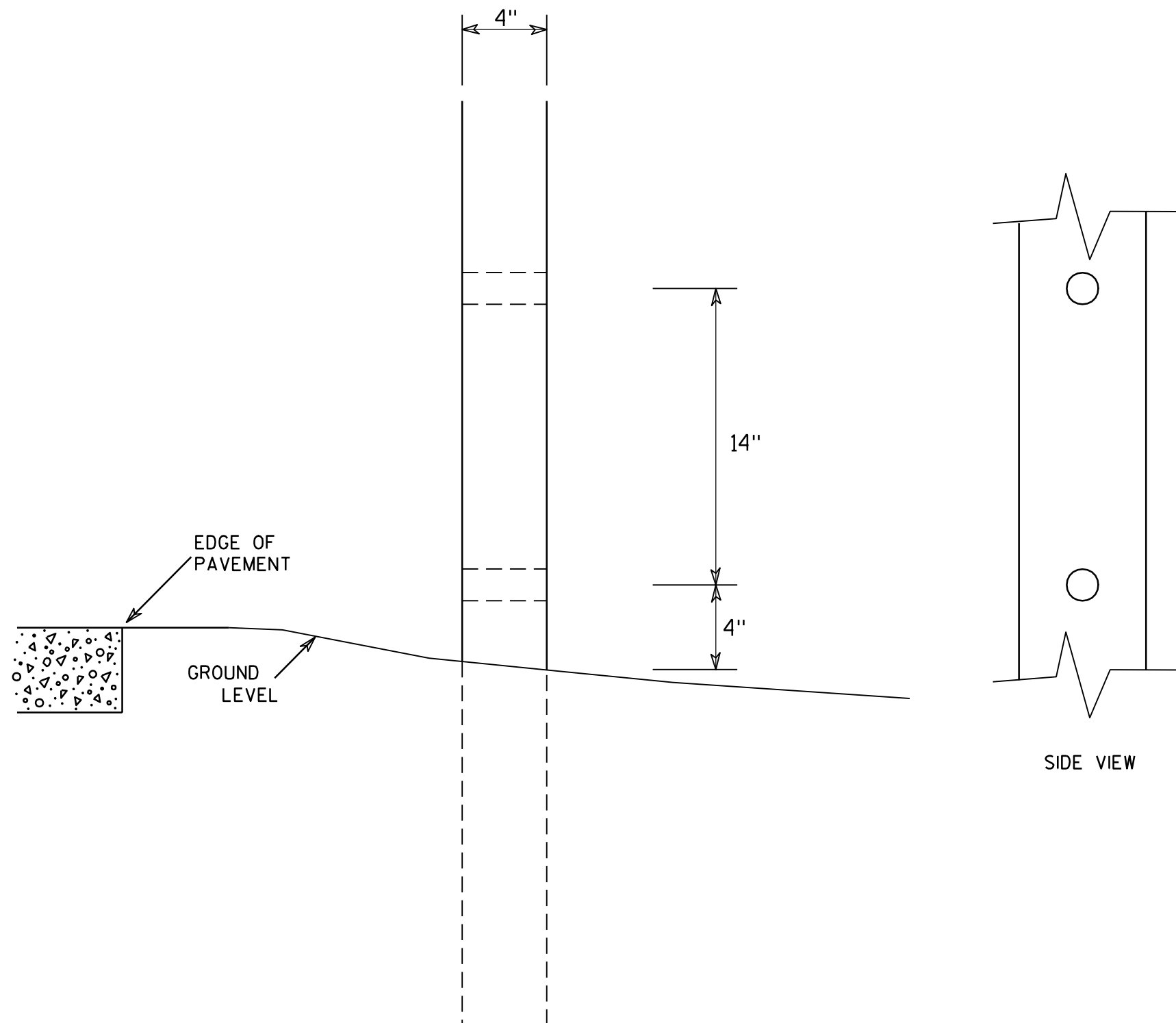
ROUTE MARKERS & COMPONENTS IN TYPICAL ASSEMBLIES	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 10/21/09	PLATE NO. A2-1S.6

PROJECT NO:

SHEET NO:

E

7



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

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Chester J. Spang
for State Traffic Engineer

DATE 3/27/97

PLATE NO. A4-11.2

PROJECT NO:

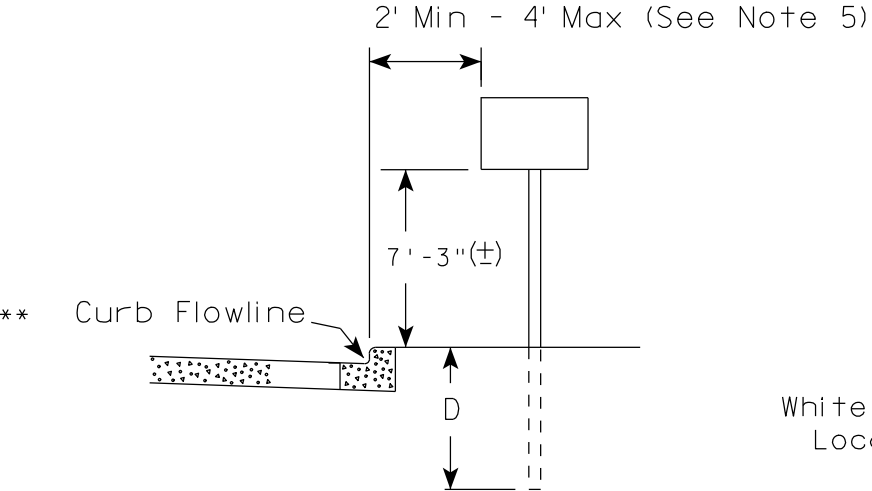
HWY:

COUNTY:

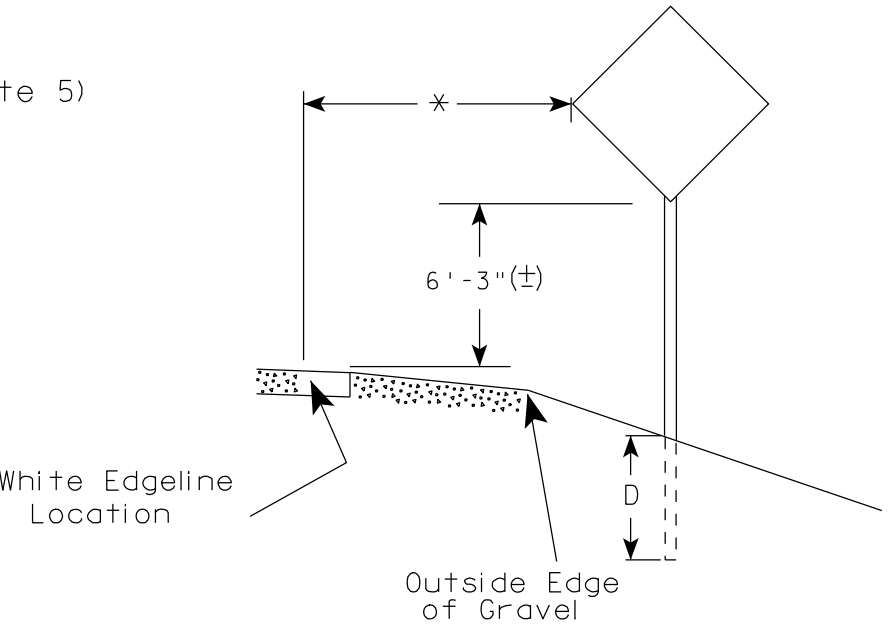
SHEET NO:

E

URBAN AREA



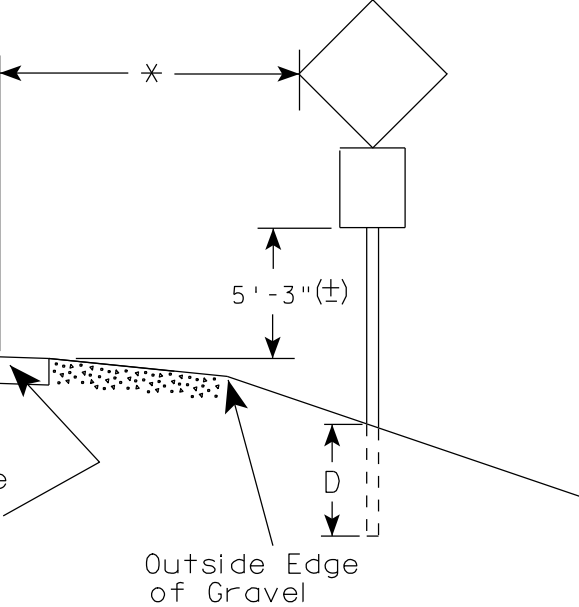
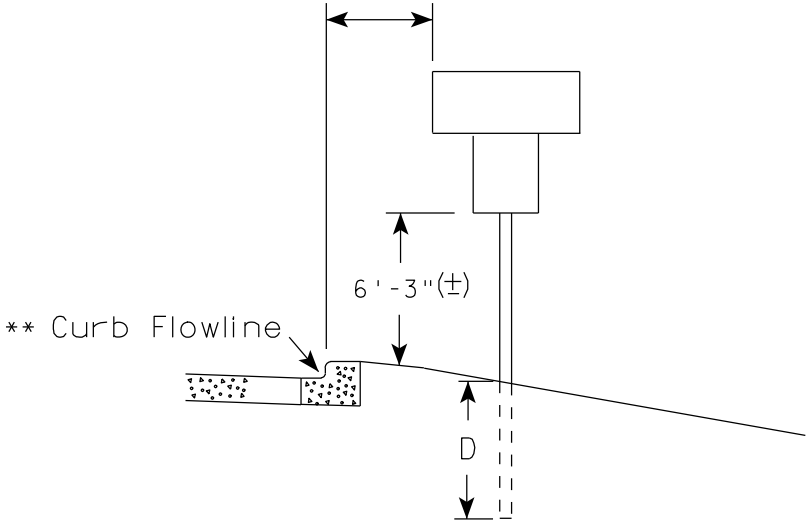
RURAL AREA (See Note 2)



GENERAL NOTES

1. Signs wider than 4 feet or larger than 20 sq. ft. shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.
9. 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) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (±).

2' Min - 4' Max (See Note 5)



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 9/21/2011 PLATE NO. A4-3.16

GENERAL NOTES

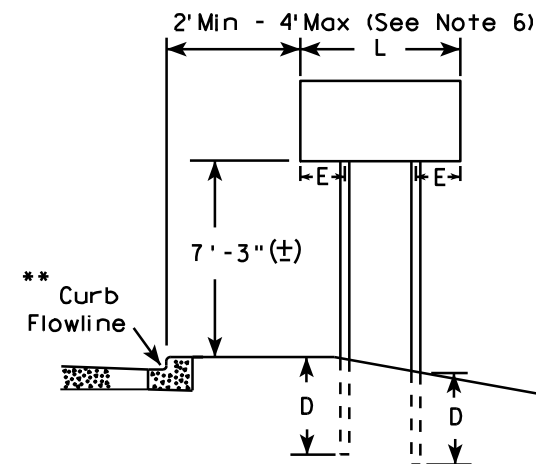
- For multiple post installations, individual post spacing shall be greater than 3'-6".
- See tables below for required number of posts.
- For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
- The (±) tolerance for mounting height is 3 inches.
- Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
- Offset distance shall be consistent with existing signs or consistent throughout length of project.
- Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
- 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) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (±).

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

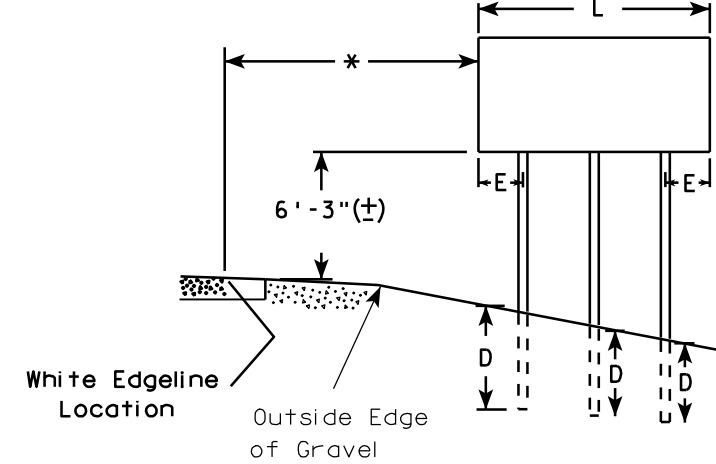
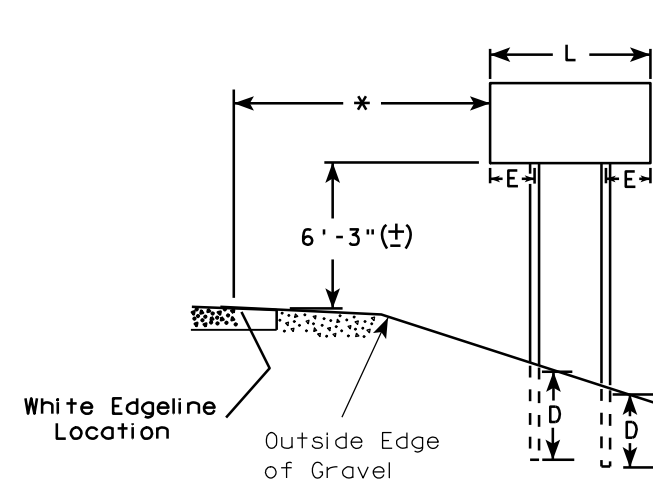
** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs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

*** See A4-3 sign plate for signs 4' or less in width or 20 S.F. or less in area.

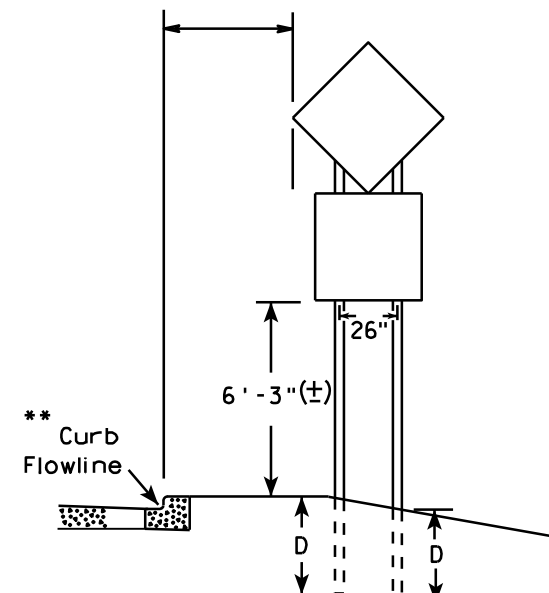
URBAN AREA



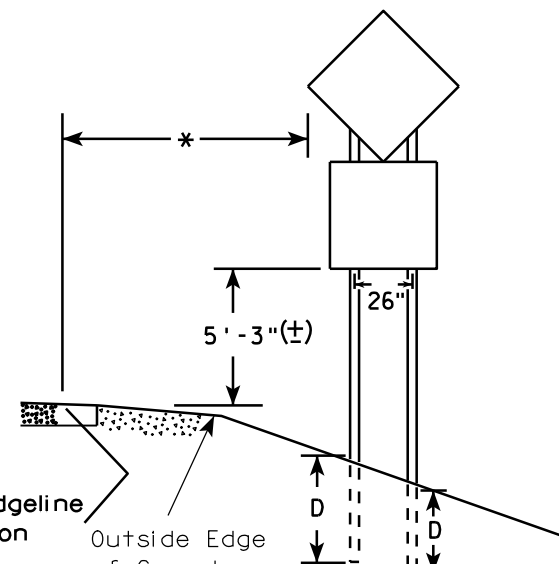
RURAL AREA (See Note 3)



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



48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

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

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

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	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 9/21/2011 PLATE NO. A4-4.11

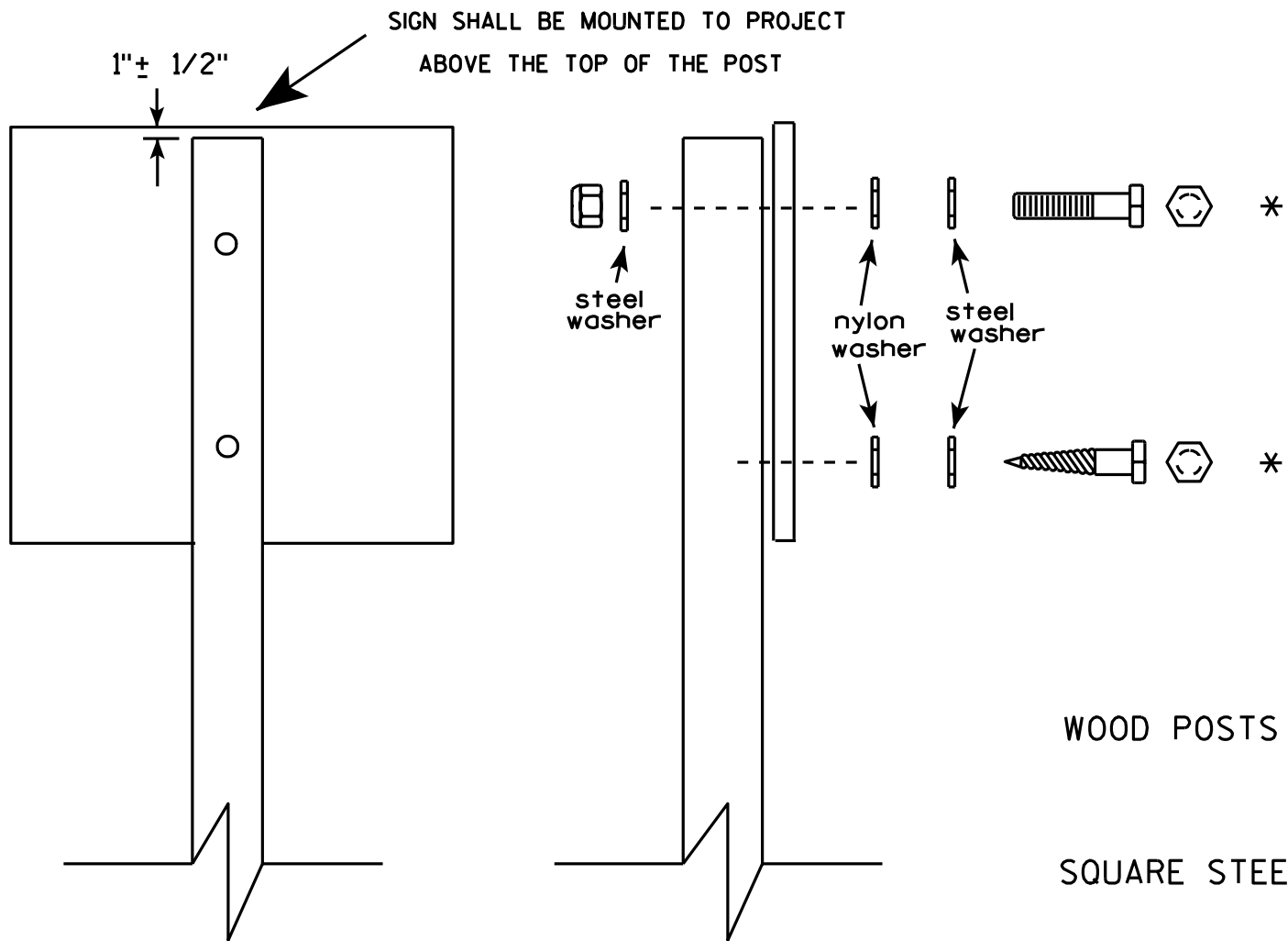
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E

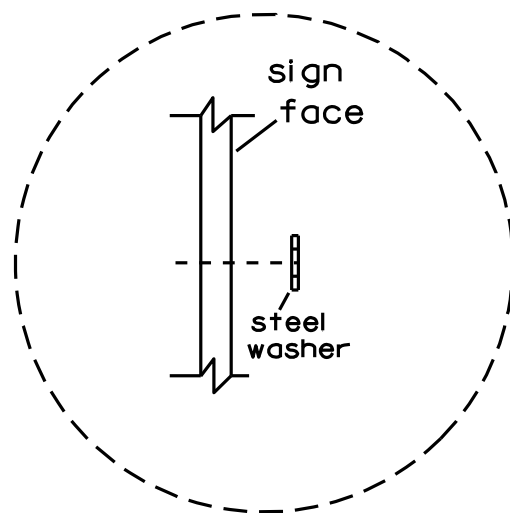


Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

- 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 POSTS (4" x 4" or 4" x 6")
- LAG SCREWS - 3/8" X 3"
- MACHINE BOLTS - 5/16" X 6-1/2" or 7" Length w/ nuts
- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts
- 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 for all Type H signs.



Washer Placement when Sign Has Other Than Type H or Type F Face

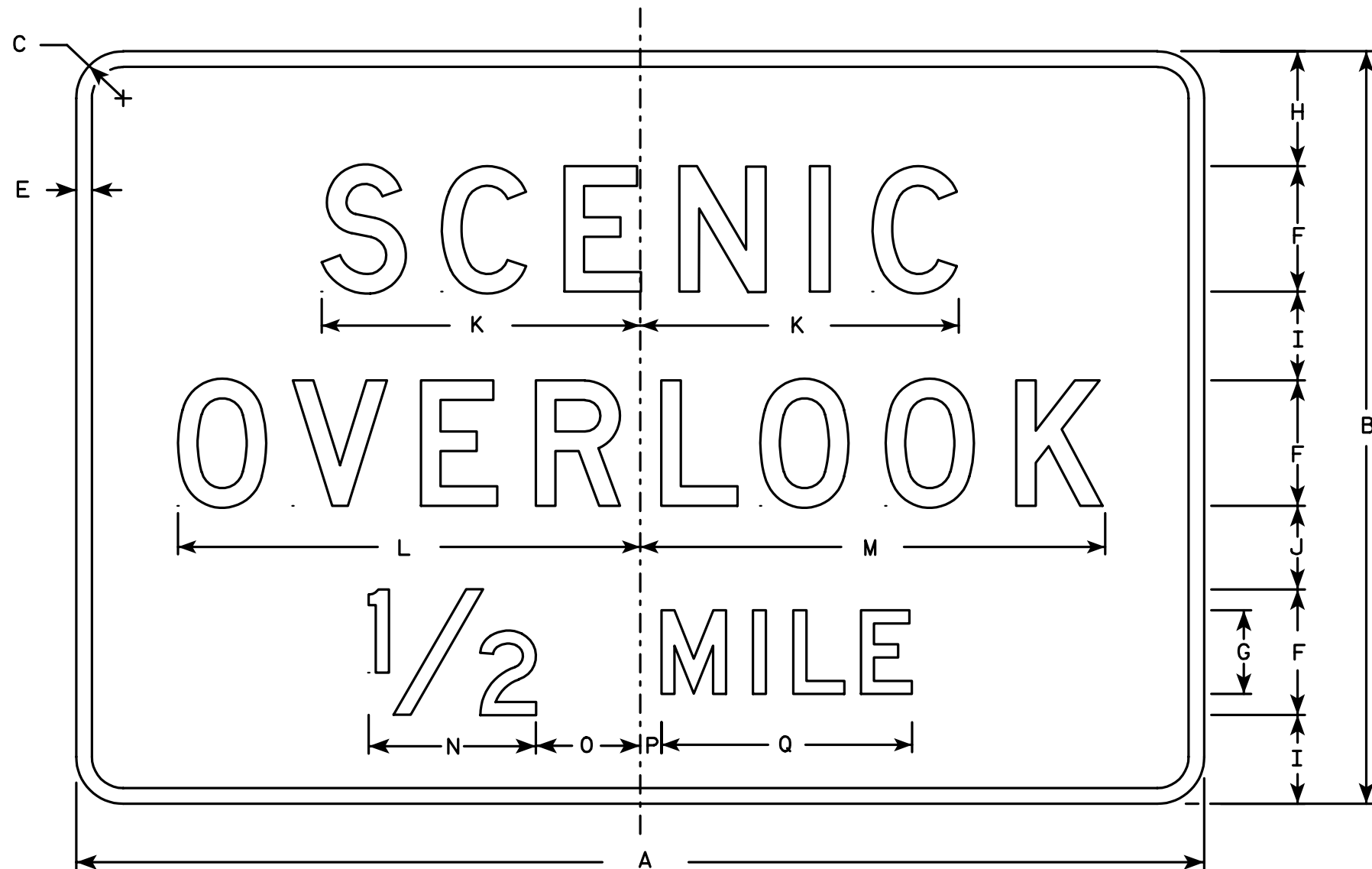
* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require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

ATTACHMENT OF SIGNS TO POSTS	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 3/23/10	PLATE NO. A4-8.7

56, 59, 60, 61, 62, 63

7

LEVELS ON - 2, 3, 5, 6, 10.



D6-51

Metric equivalent
for this sign is:

SIZE	
1	
2	1350 mm X 900 mm
3	
4	
5	


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. m.
1																												
2	54	36	2 ¼		¾	6	4	5 ½	4 ¼	4	15 ¼	22 ⅛	22 ¼	8	5	1	12										13.50	1.22
3																												
4																												
5																												

NOTES

1. Sign Is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Blue
Message - White - Type H Reflective
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.

STANDARD SIGN
D6-51

WISCONSIN DEPT OF TRANSPORTATION

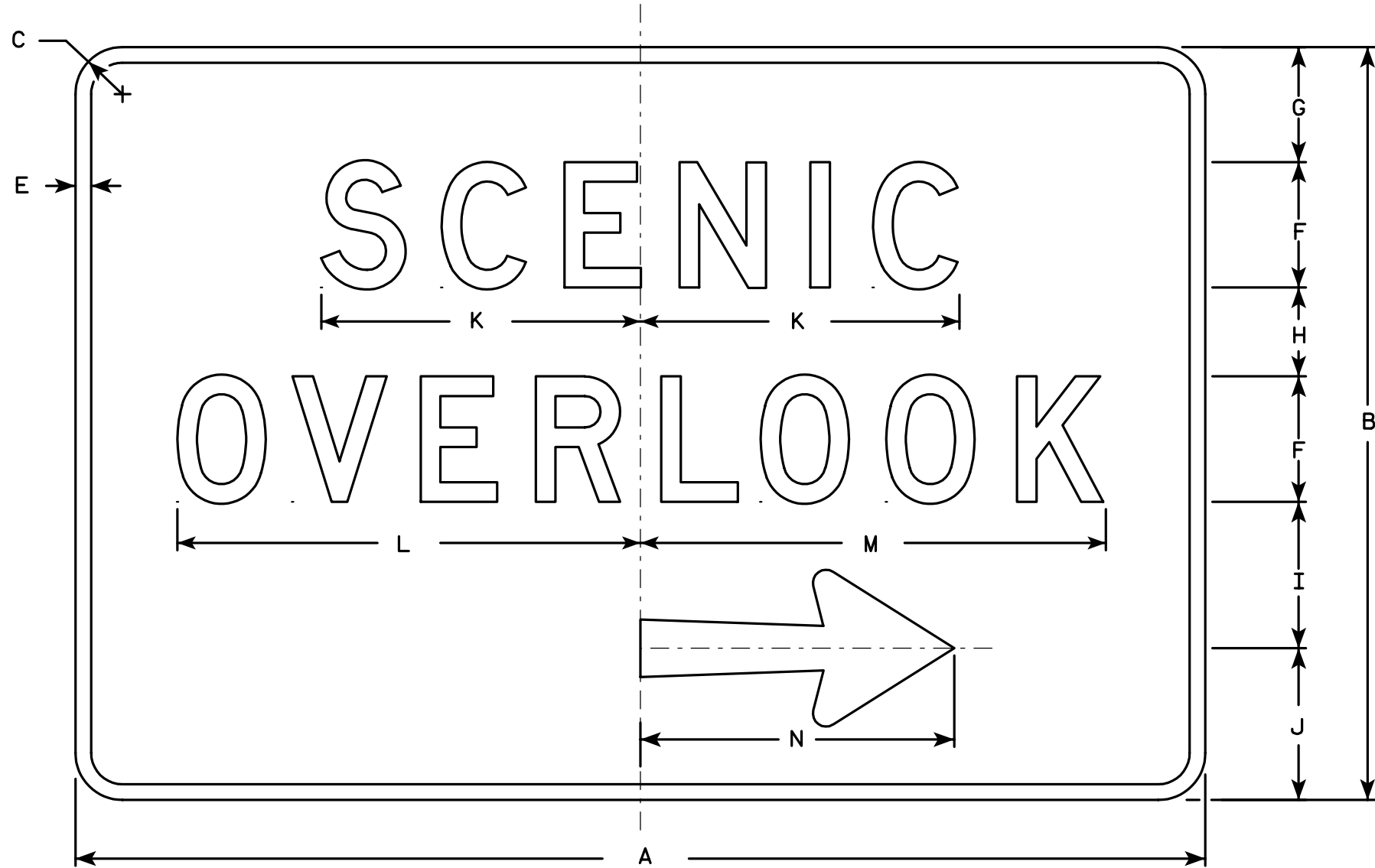
APPROVED 
for State Traffic Engineer

DATE 1/10/02 PLATE NO. D6-51.5

58, 59, 60, 61, 62, 63

7

LEVELS ON - 2, 3, 5, 6, 10.



D6-53R

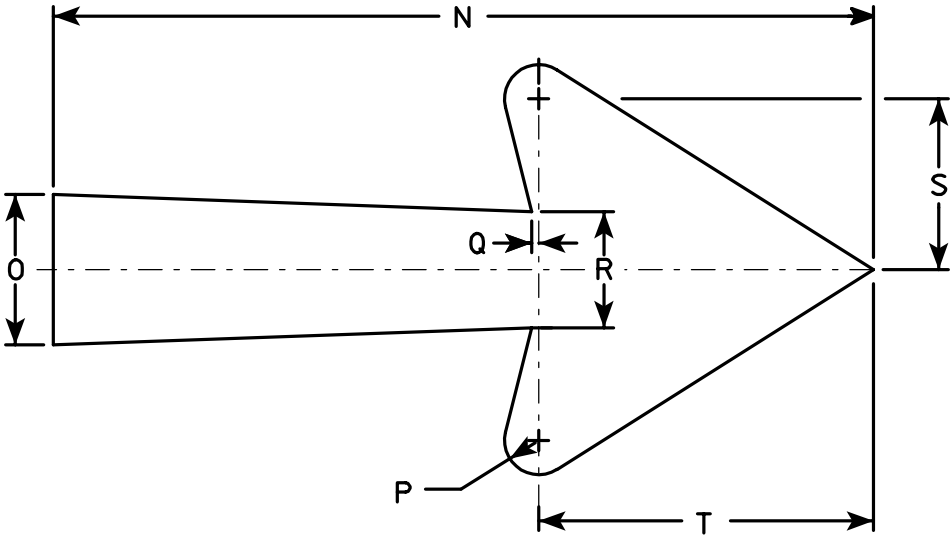
Metric equivalent
for this sign is:

SIZE	
1	
2	1350 mm X 900 mm
3	
4	
5	

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. m.
1																												
2	54	36	2 1/4		3/4	6	5 1/2	4 1/4	7	7 1/4	15 1/4	22 1/8	22 1/4	15	2 3/4	5/8	1/8	2 1/8	3 1/8	6 1/8							13.50	1.22
3																												
4																												
5																												

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Blue
Message - White - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. D5-53L is the same as D6-53R except that the arrow is reversed.



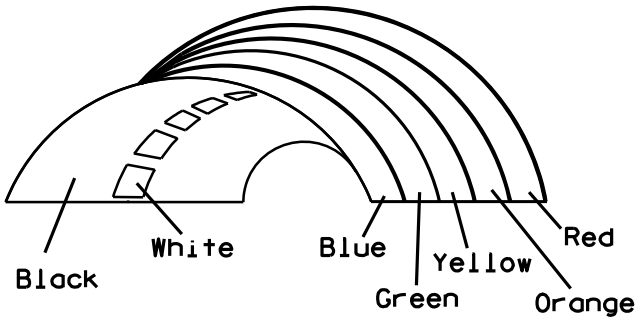
Arrow Detail

STANDARD SIGN D6-53	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Christa J. Spay</i> State Traffic Engineer
DATE 1/10/02	PLATE NO. D6-53.5



* VARIES

Background Colors of Symbol*



*1/4" Black Border between each color of rainbow and border of rainbow

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 - (See Note 5)
- 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. Border - Blue
Line 1 - Red
Line 2 - Black
Line 3-5 - Blue
- 6. Line 1 - Dutch 8011L
Line 2 - Series E
Line 3-5 - Series C
- 7. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign detail.

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	30	36	1 1/2	1/2	5/8	3	2	3 1/2	2 7/8	1	8	2 1/8	11 1/4	11 1/8	9 3/8	1 1/4		3/4	12 5/8	7 1/2							7.5
3																											
4																											
5																											

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

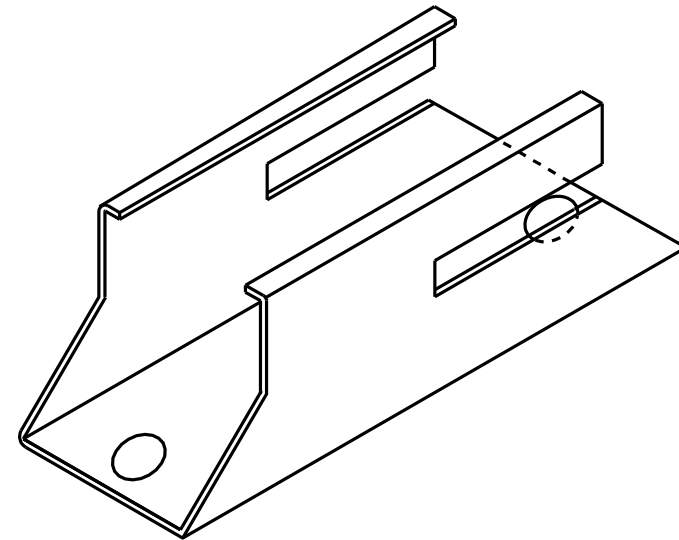
STANDARD SIGN
I55-56

WISCONSIN DEPT OF TRANSPORTATION

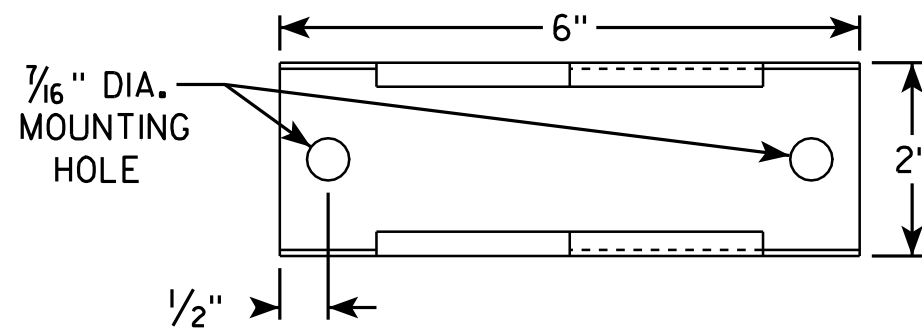
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 4/27/11 PLATE NO. I55-56.3

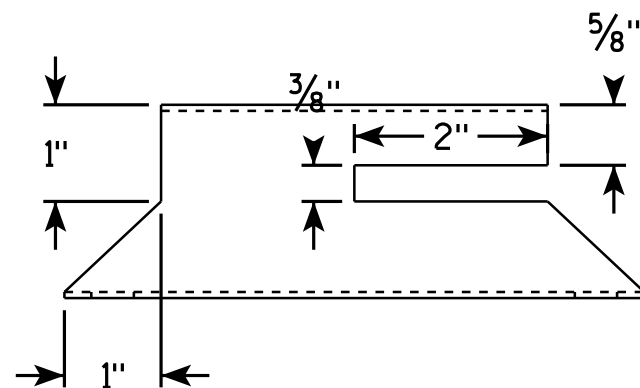
ISOMETRIC VIEW



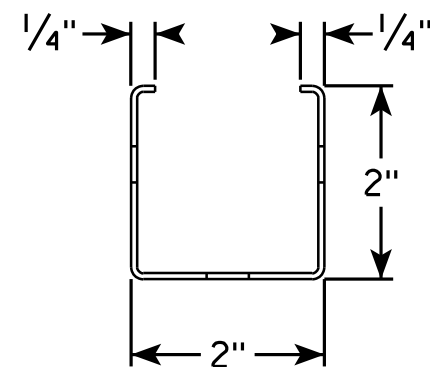
TOP VIEW



SIDE VIEW



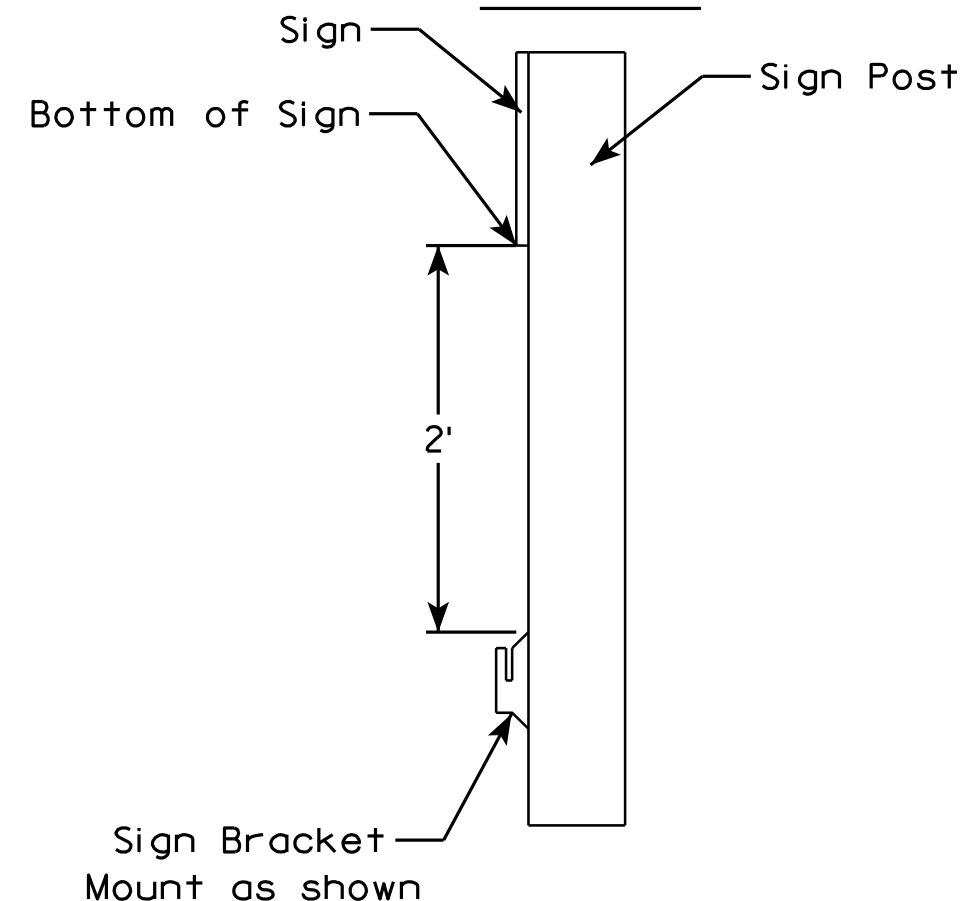
END VIEW



NOTES

1. Must be capable of permanent attachment to a wood or steel channel sign post utilizing the fastening hardware specified on the A4-8 sign plate.
2. Shall be entirely primed and painted with two coats of a black powder coated enamel paint.
3. Shall be made with 12 gauge steel, and incorporate no welds, no hinged components, no threaded lock-type components, and no parts which are loose or can be separated from the main body.
4. Shall have rounded edges with at least 1/8" radii.
5. Shall not have unrounded and uncoated metal edges which can contact the back surface of the roll-up sign.
6. Top of bracket shall be mounted 2' below the bottom of the I55-56 sign.
7. Cost of bracket and fastening hardware shall be incidental to the I55-56 sign.

SIDE VIEW



ROLLUP SIGN BRACKET
I55-56B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 2/5/10 PLATE NO. I55-56B.1

PROJECT NO:

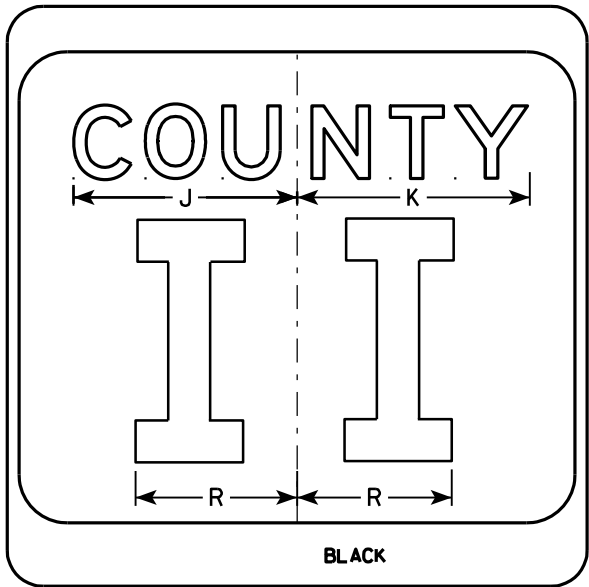
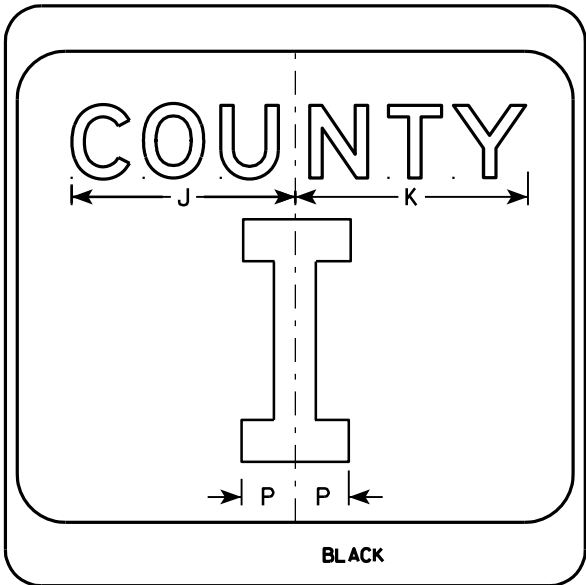
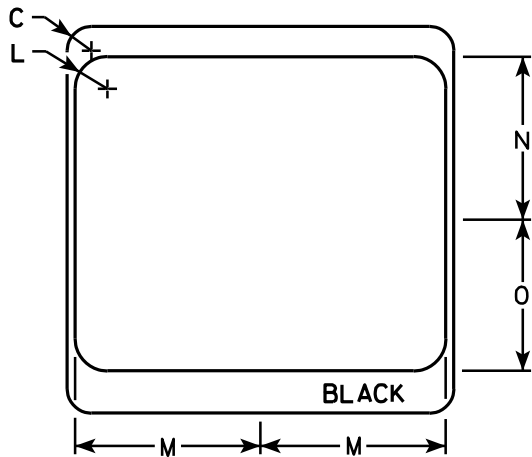
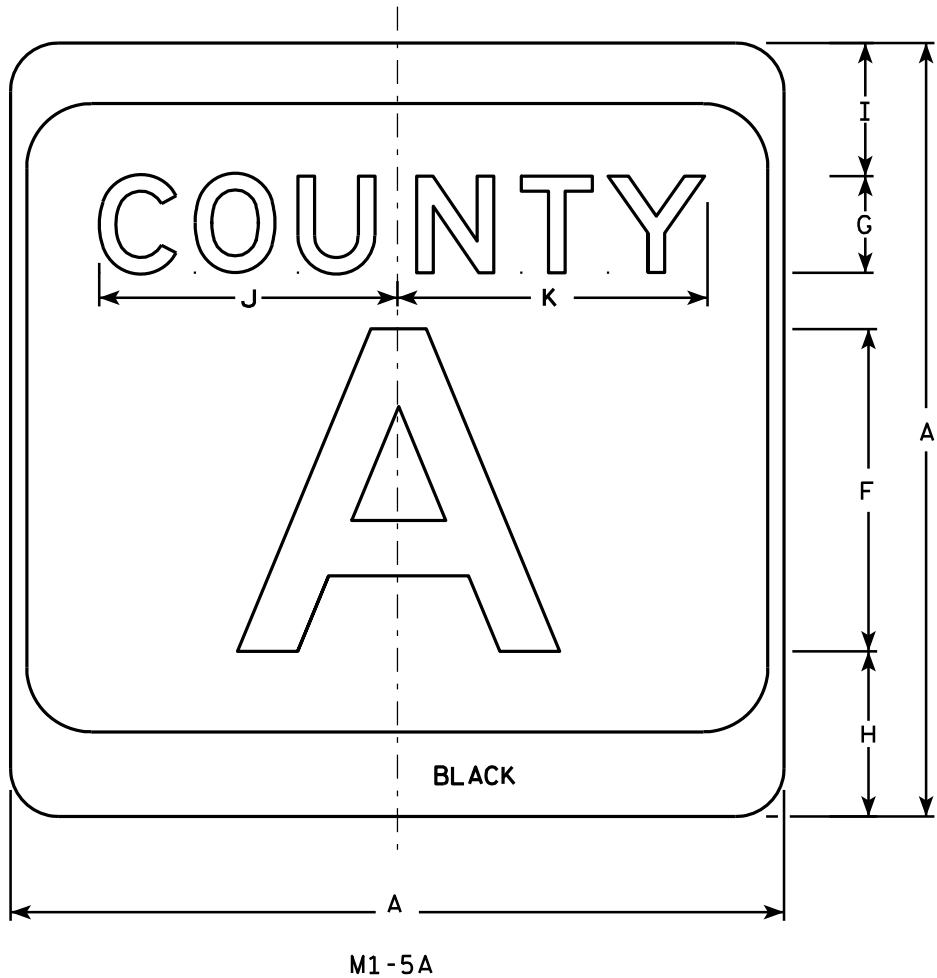
HWY:

COUNTY:

SHEET NO:

E

7



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

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

PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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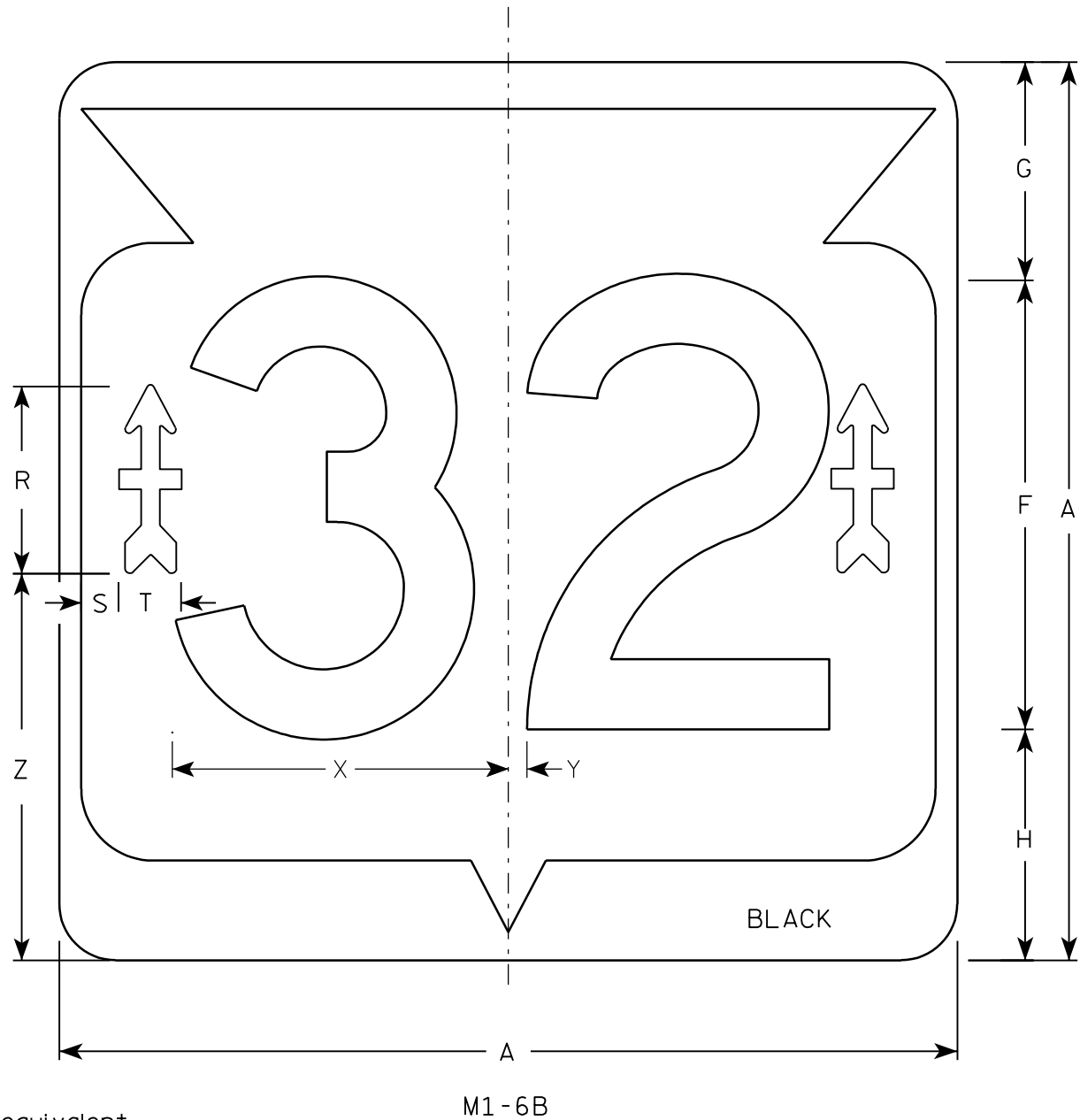
CTH MARKER

M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8



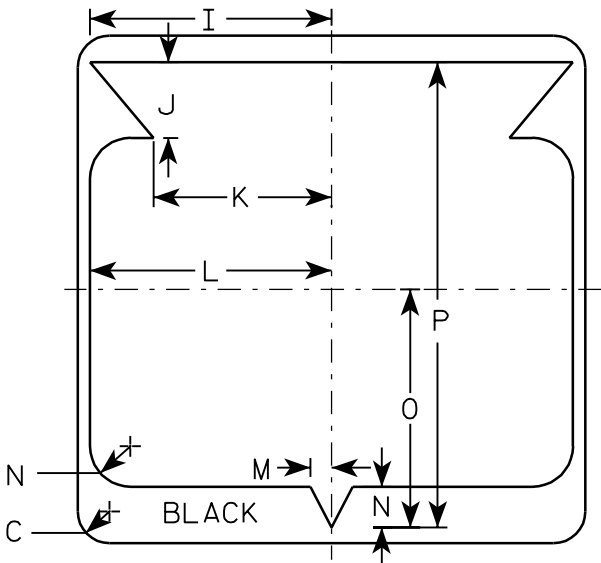
Metric equivalent
for this sign is:

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

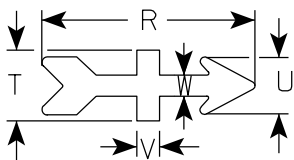
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m ²
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8		5 1/8	3/4	1 7/8	1 1/2	5/8	5/8	9	1/2	10 1/2	4.0	.36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33		7 1/2	1 1/2	2 1/2	2	7/8	3/4	13 1/2	3/4	15 1/2	9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33		7 1/2	1 1/2	2 1/2	2	7/8	3/4	13 1/2	3/4	15 1/2	9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33		7 1/2	1 1/2	2 1/2	2	7/8	3/4	13 1/2	3/4	15 1/2	9.0	.81

NOTES

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



32nd DIVISION ARROW
ACTUAL SIZE



7

Metric equivalent
for this sign is:

SIZE	
1	
2	450 mm X 900 mm
3	
4	
5	

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 m ²
1																												
2	18	36	1 1/8	3/8		4	2	13 3/4	2 1/2	1 5/8	7 1/4	7	4 3/8	1 3/4	2 5/8	7/8	1/4	3/4	5 1/8	2 1/8							4.5	.41
3																												
4																												
5																												

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E

FILE NAME : C:\Users\Projects\tr_stdplate\M186.DGN

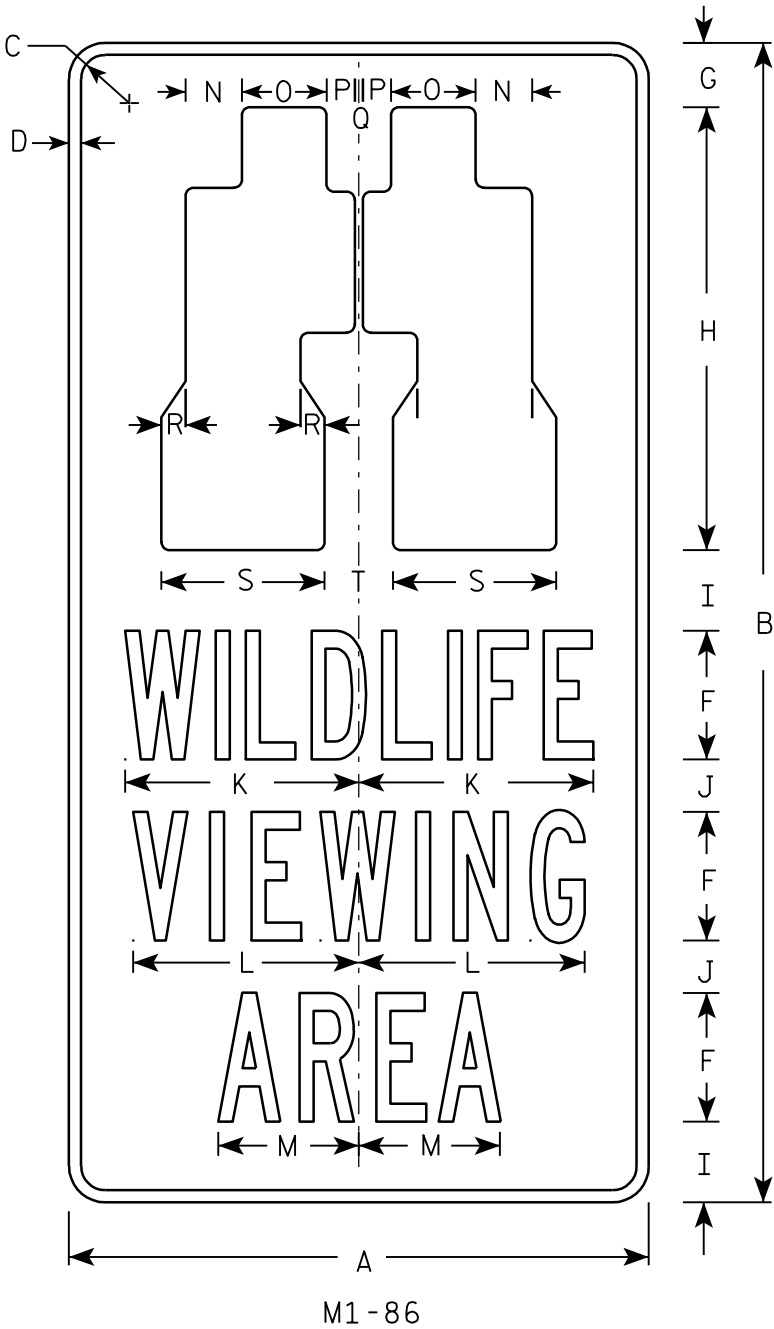
PLOT DATE : 13-OCT-2005 15:31

PLOT BY : DITJPH

PLOT NAME :

PLOT SCALE : 5.960833:1.000000

WISDOT/CADDs SHEET 42



NOTES

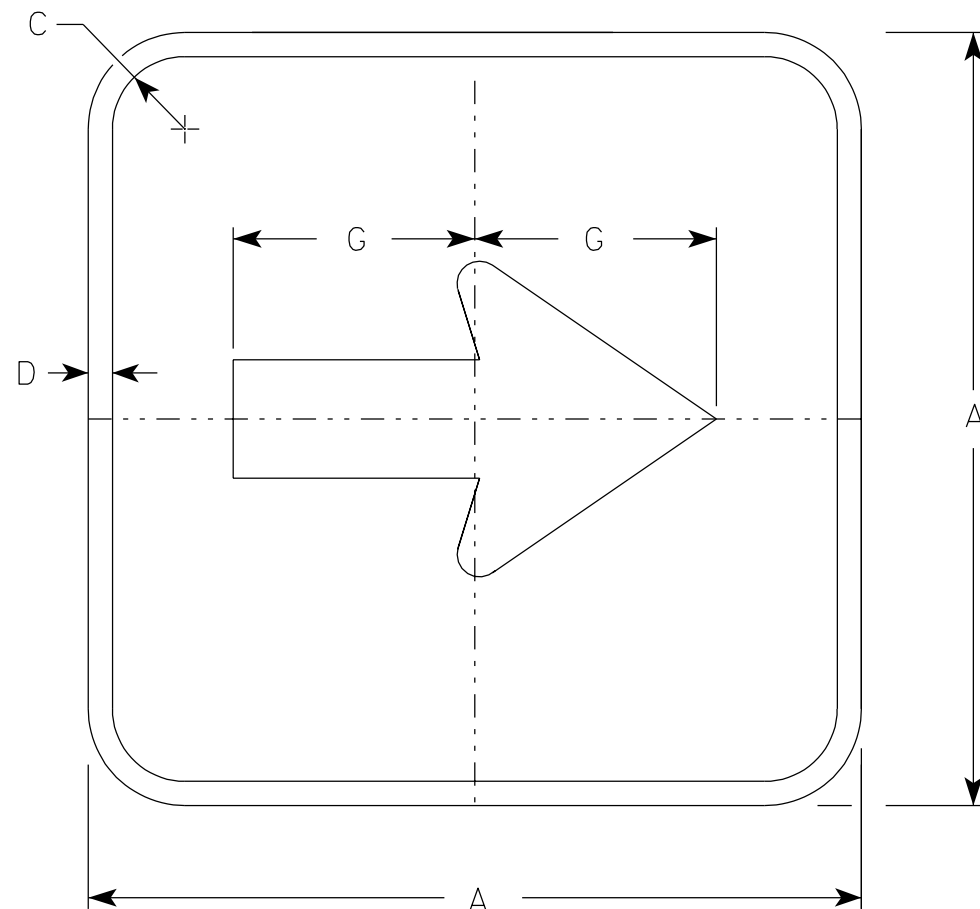
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Brown
Message - White - Type H Reflective
3. Message Series - B
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

STANDARD SIGN
M1-86

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Chester J. Spang
for State Traffic Engineer

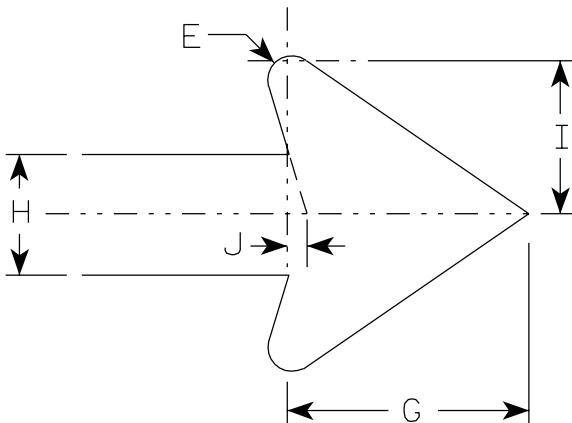
DATE 1/30/02 PLATE NO. M1-86.3



M1-88A

NOTES

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




Metric equivalent for this sign is:

SIZE	
1	
2	300 mm X 300 mm
3	
4	
5	

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 m ²
1																												
2	12		1 1/8				3 3/4	1 7/8	2 3/8	5/16																	1.0	.09
3																												
4																												
5																												

STANDARD SIGN
M1-88A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED 
for State Traffic Engineer

DATE 1/30/02 PLATE NO. M1-88A.2

PROJECT NO:

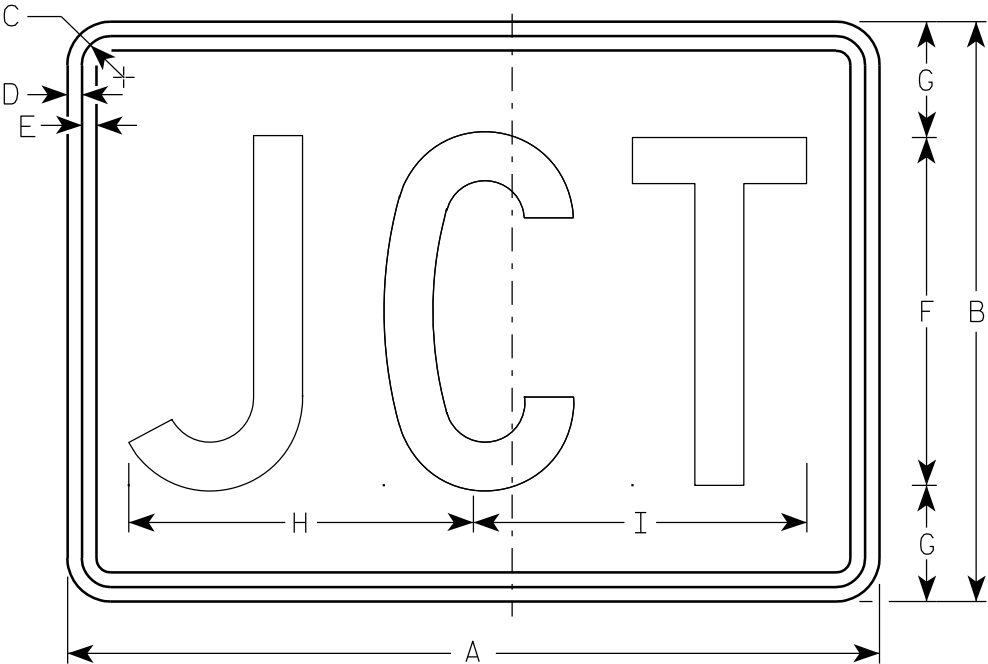
HWY:

COUNTY:

SHEET NO:

E

7



M2-1
MK2-1
MM2-1
MR2-1

Metric equivalent
for this sign is:

SIZE	
1	
2	525 mm X 375 mm
3	750 mm X 525 mm
4	750 mm X 525 mm
5	750 mm X 525 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 m ²
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	0.20
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	0.20
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	0.20
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	0.20

PROJECT NO:

HWY:

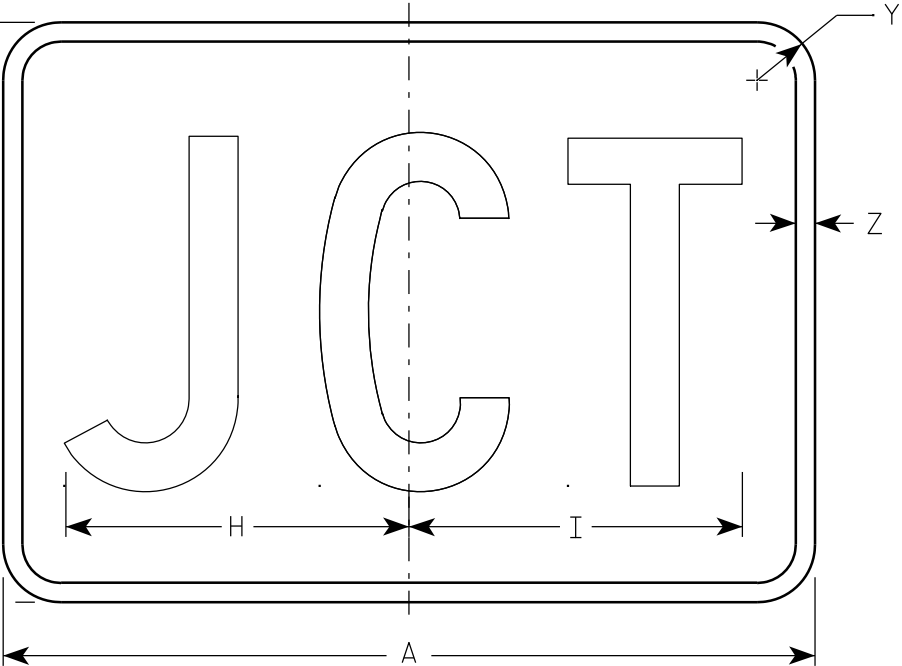
COUNTY:

SHEET NO:

E

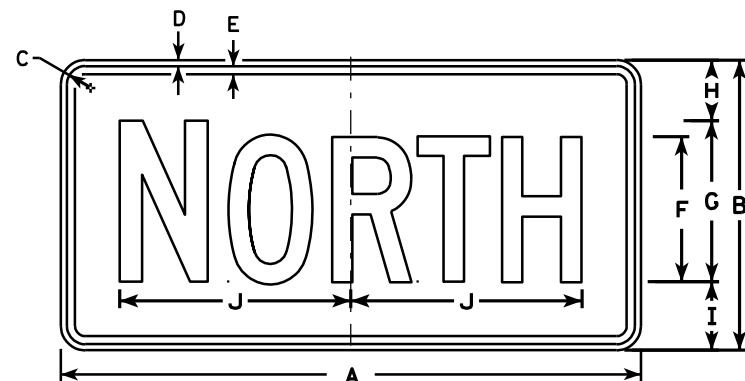
NOTES

- Sign is Type II - See Note 5 - reference
WIS DOT Standard Specification for HIGHWAY
and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - See note 5
Message - See note 5
- Message Series - C
- Corners may be square or rounded when base
material is plywood but borders shall be rounded
as shown. When base material is metal, the
corners and borders shall be rounded.
- M2-1 Background - White - Type H Reflective
(Detour or temporary Signs - Reflective)
Message - Black
MB2-1 Background - Blue
Message - White - Type H Reflective
(Detour or temporary Signs - Reflective)
MG2-1 Background - Green
Message - White - Type H Reflective
MK2-1 Background - Green
Message - White - Type H Reflective
MM2-1 Background - White - Type H Reflective
Message - Green
MN2-1 Background - Brown
Message - White - Type H Reflective
MR2-1 Background - Brown
Message - Yellow - Type H Reflective



MB2-1
MG2-1
MN2-1

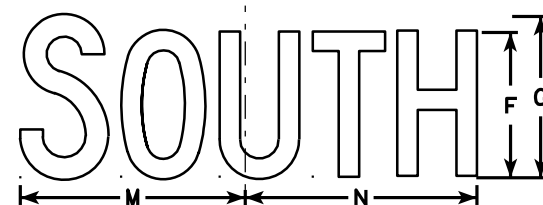
7



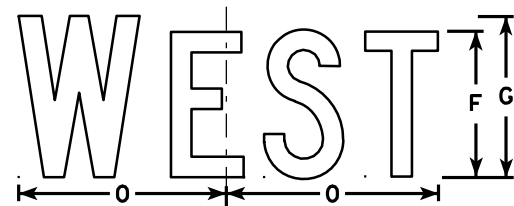
M3-1
MK3-1
M03-1



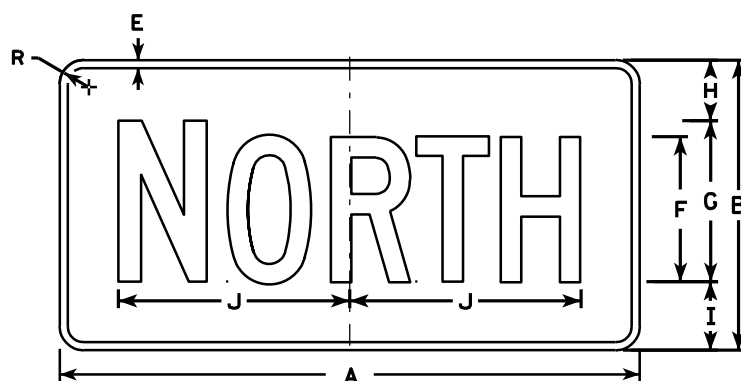
M3-2
MK3-2
M03-2



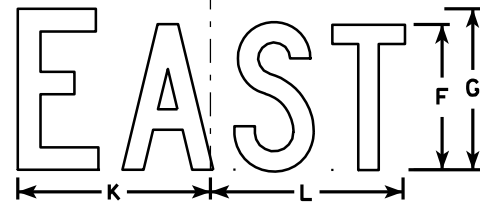
M3-3
MK3-3
M03-3



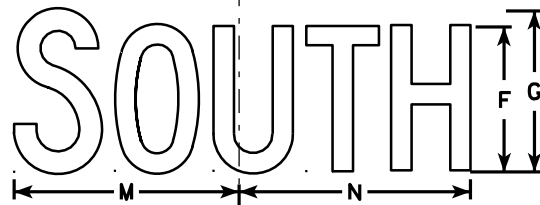
M3-4
MK3-4
M03-4



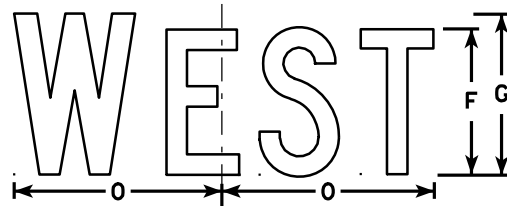
MB3-1
MG3-1
MM3-1
MN3-1



MB3-2
MG3-2
MM3-2
MN3-2



MB3-3
MG3-3
MM3-3
MN3-3



MB3-4
MG3-4
MM3-4
MN3-4

NOTES

1. All Signs Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
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. M3-1 thru M3-4 Background - White - Type H Reflective (Detour or temporary signs - Reflective)
Message - Black
MB3-1 thru MB3-4 Background - Blue
Message - White - Type H Reflective (Detour or temporary signs - Reflective)
MG3-1 thru MG3-4 Background - Green
Message - White - Type H Reflective
MK3-1 thru MK3-4 Background - Green
Message - White - Type H Reflective
MM3-1 thru MM3-4 Background - White - Type H Reflective
Message - Green
MN3-1 thru MN3-4 Background - Brown
Message - White - Type H Reflective
M03-1 thru M03-4 Background - Orange - Reflective
Message - Black
6. Note the first letter of each direction is larger than the remainder of the message.

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	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

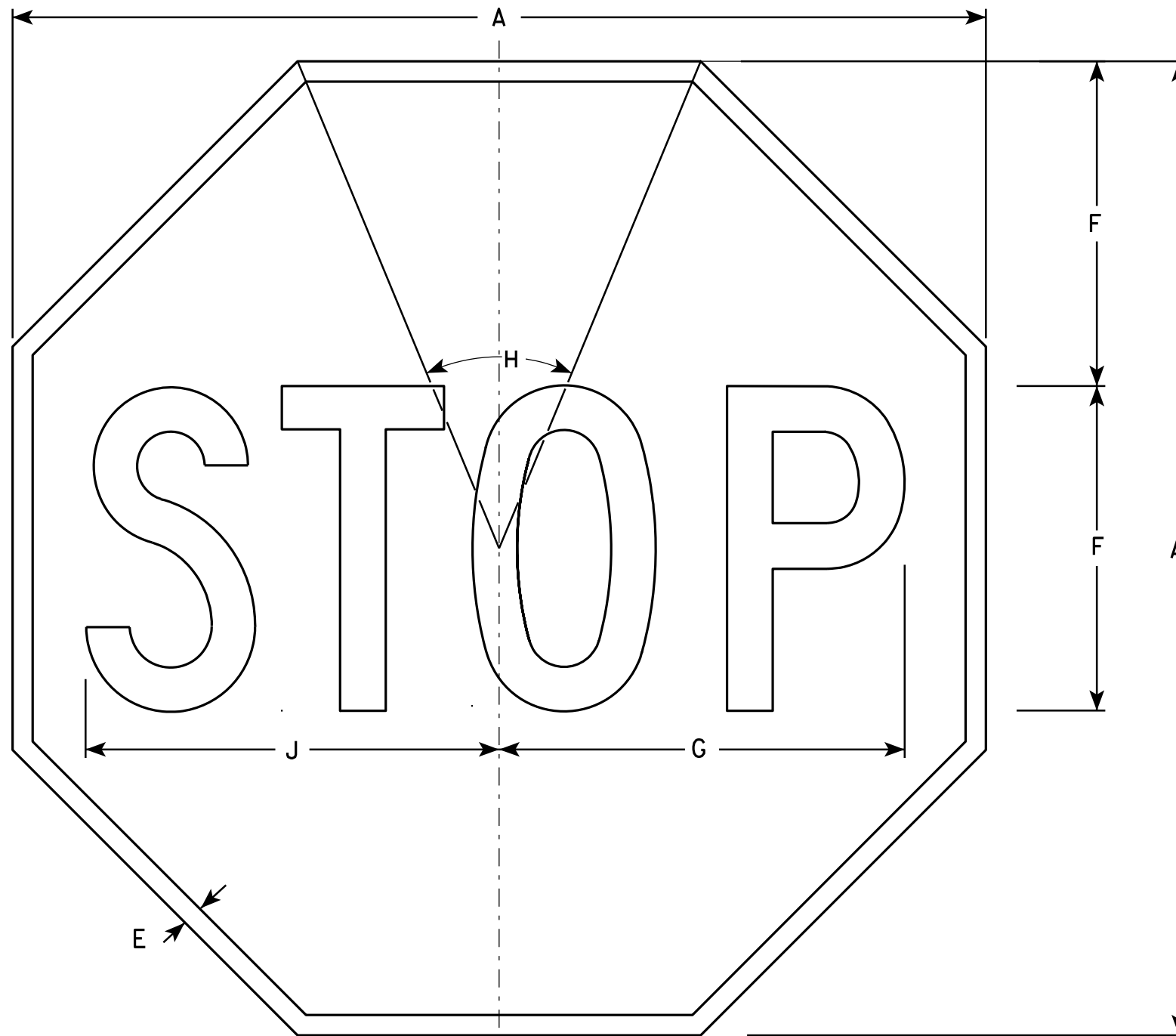
PROJECT NO: HWY: COUNTY: SHEET NO: E

STANDARD SIGNS
M3-1 thru M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/10/10 PLATE NO. M3-1.12



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

R1-1

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				3/8	8	10	45°		10 1/4																	3.31
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

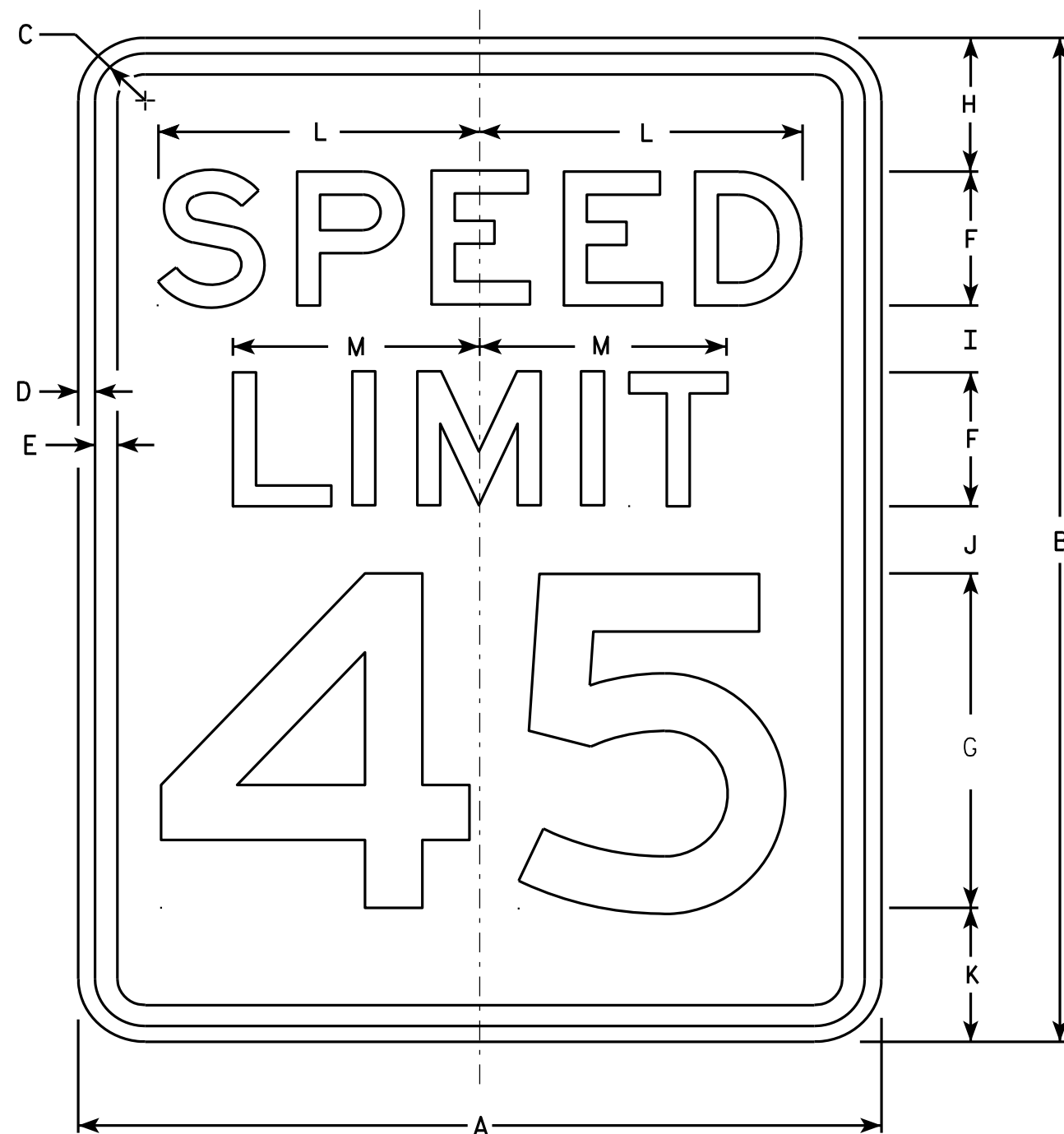
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1.12

PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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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.

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

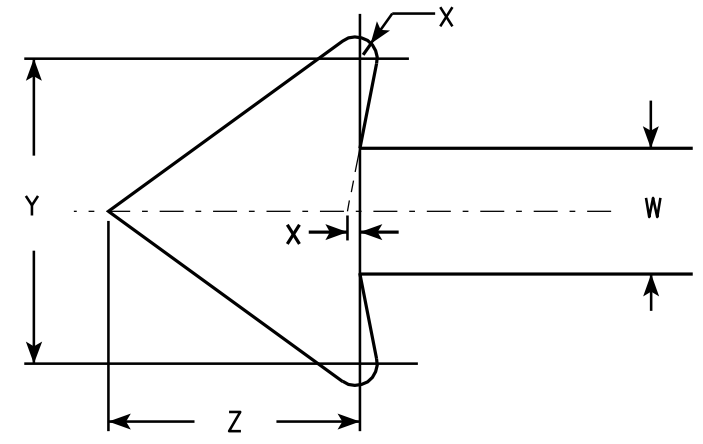
PROJECT NO: HWY: COUNTY: SHEET NO: E



R7-53

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 - Red
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. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-53D (double arrow)
R7-53L (left arrow)
R7-53R (right arrow)

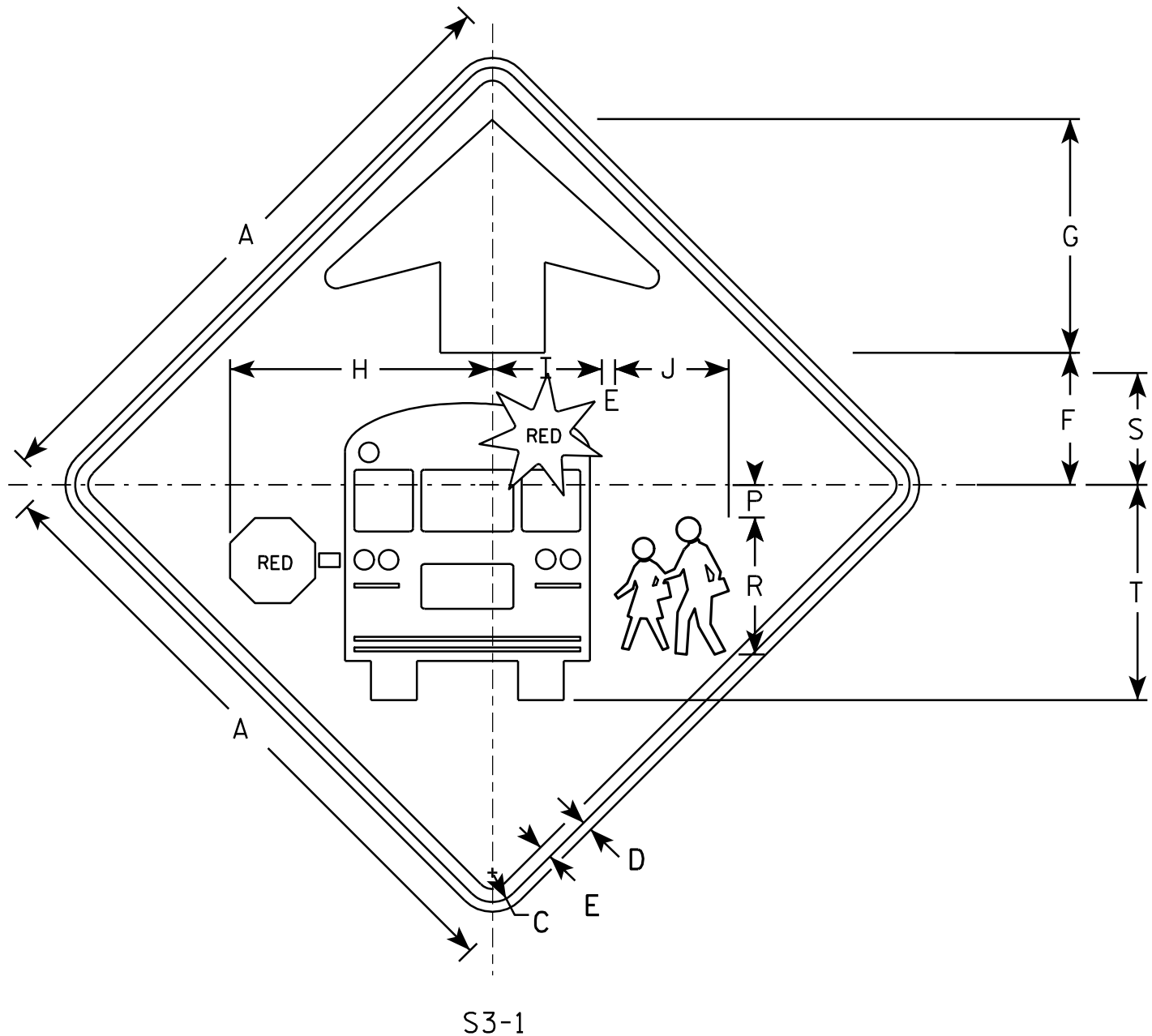


ARROW DETAIL

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	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 5/8	1 3/4	1/4	4 1/2	2 3/8	3 7/8	3/4	1/8	1 3/4	1 1/2	1.5
2S	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	3 3/8	1 1/2	5/8	5 3/8	3	5 7/8	1 1/8	1/4	2 5/8	2 1/4	3.0
2M	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	4	2	5/8	6 5/8	3 5/8	7 3/4	1 1/2	1/4	3 1/2	3	5.0
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	4	2	5/8	6 5/8	3 5/8	7 3/4	1 1/2	1/4	3 1/2	3	5.0
4																											
5																											

STANDARD SIGN R7-53	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 3/31/2011	PLATE NO. R7-53.6

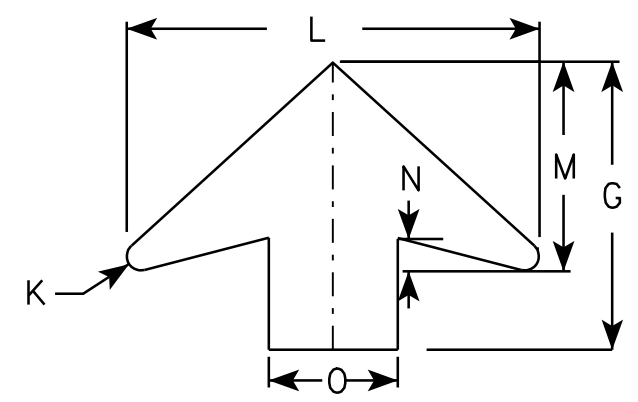
PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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S3-1

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

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 7/8	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																											

PROJECT NO:				SHEET NO:	E
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STANDARD SIGN

S3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

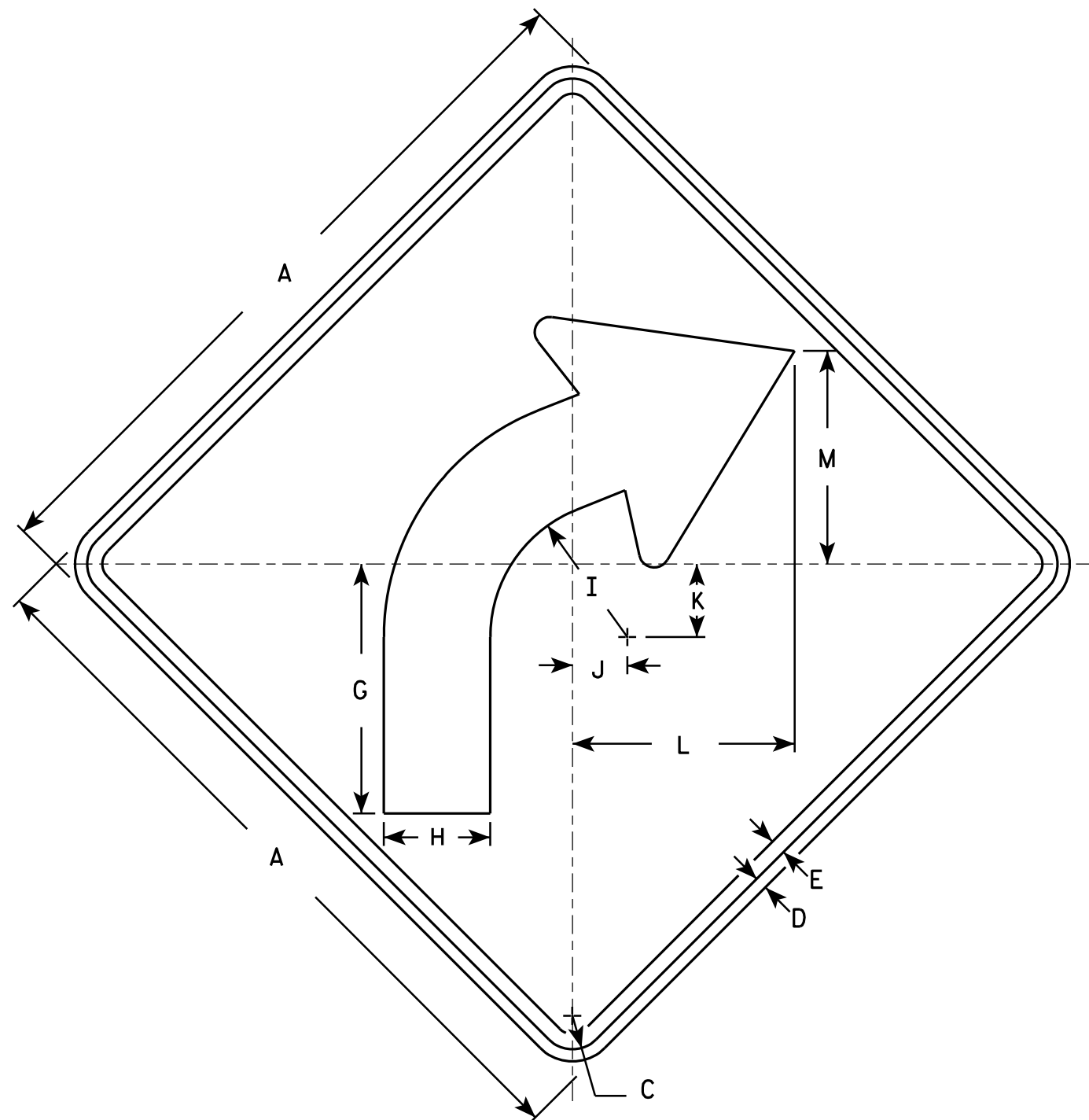
for State Traffic Engineer

DATE 6/8/10

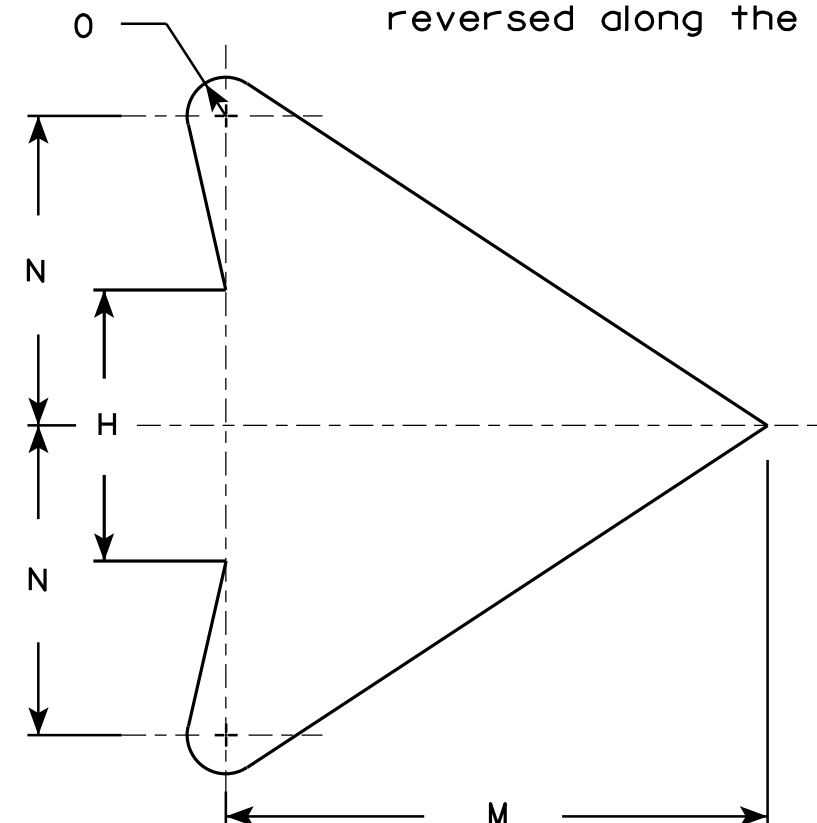
PLATE NO. S3-1.6

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.



W1-2R



ARROW DETAIL

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

PROJECT NO:

HWY:

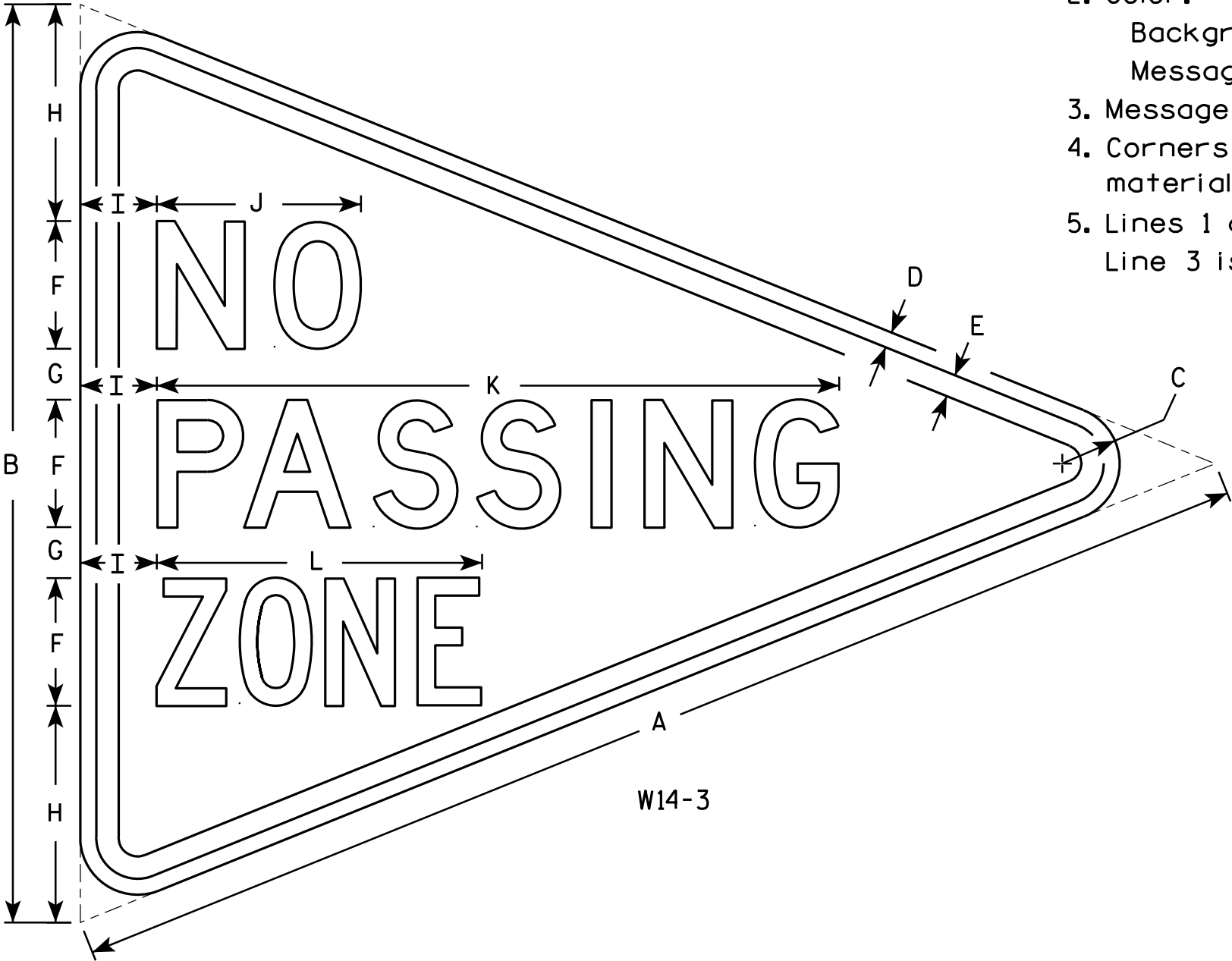
COUNTY:

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 5
- 4. Corners and borders shall be rounded on all base materials for this sign.
- 5. Lines 1 and 2 are Series D.
Line 3 is series C.



W14-3

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															6.0
2M	48	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															6.0
3	64	48	3	3/4	1 1/4	6	3	12	4	10 3/4	33 5/8	16 1/2															10.7
4																											
5																											

STANDARD SIGN
W14-3

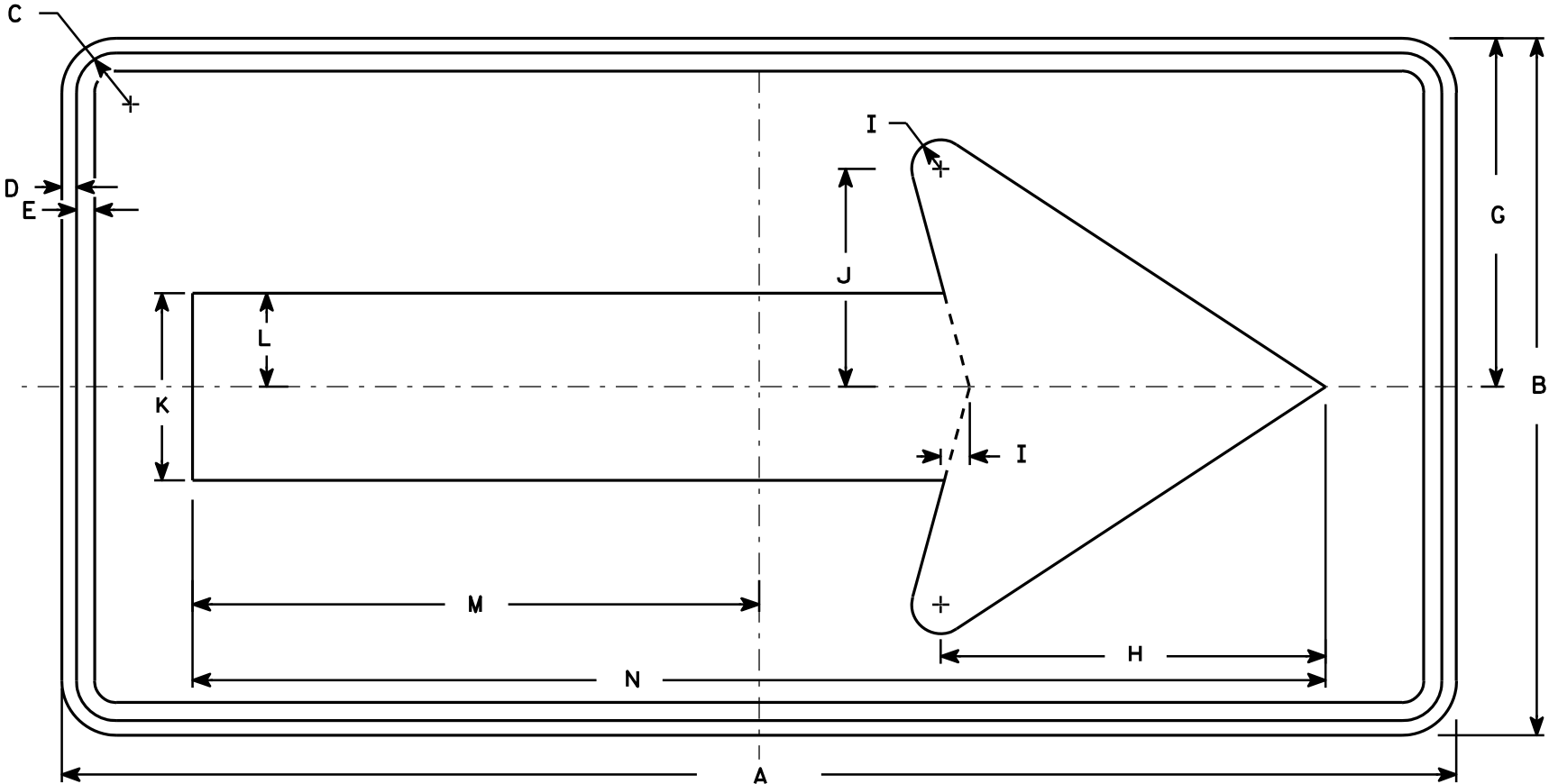
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 6/7/10 PLATE NO. W14-3.9

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.



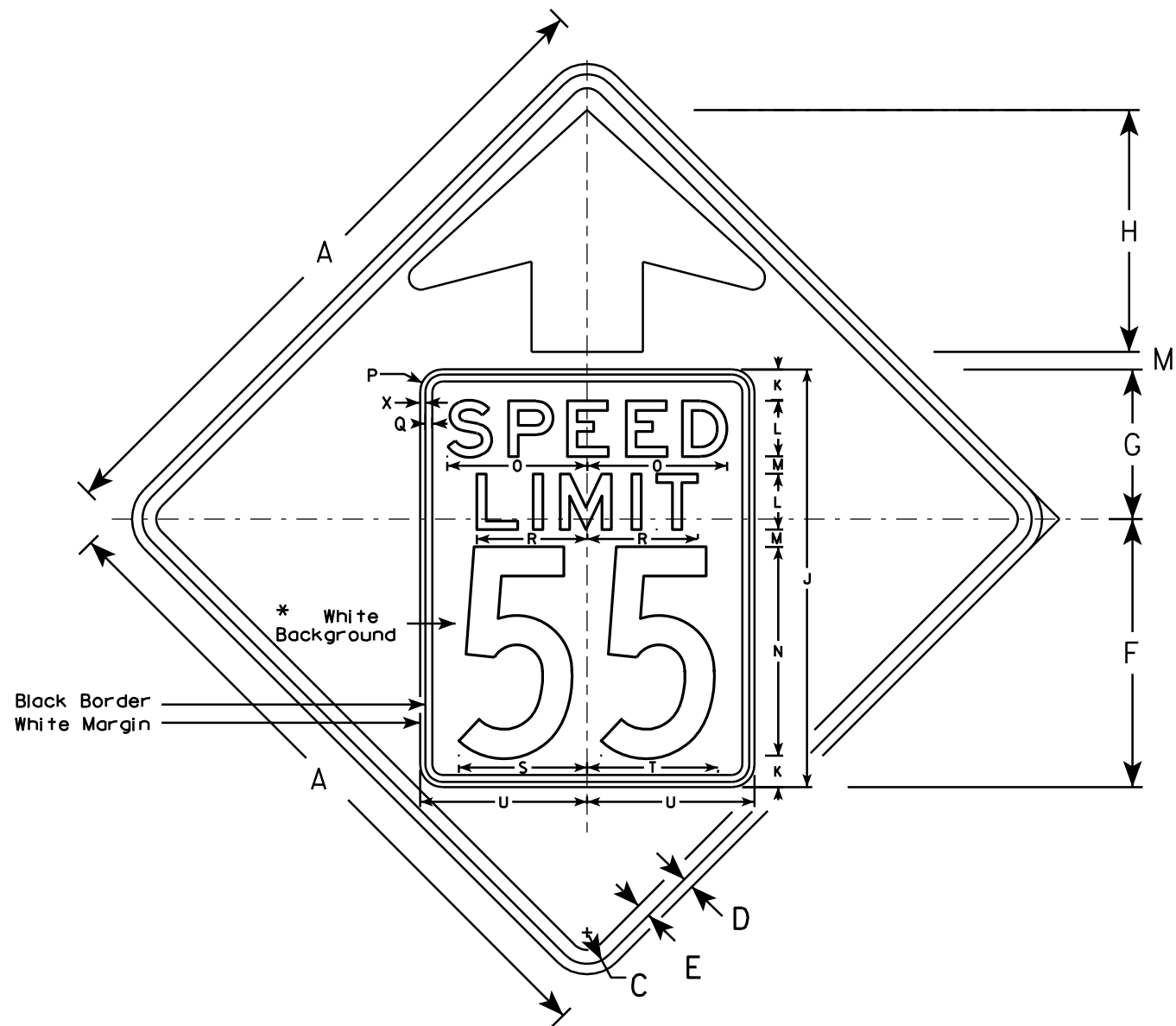
W1-6

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	18	1 1/8	3/8	3/8		9	10	3/4	5 5/8	4 3/4	2 3/8	14 5/8	29 1/4													4.5
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	96	48	2 1/4	3/4	1		24	26 1/2	2	15	13	6 1/2	39	78													32.0

STANDARD SIGN
W1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 6/7/10 PLATE NO. W1-6.8

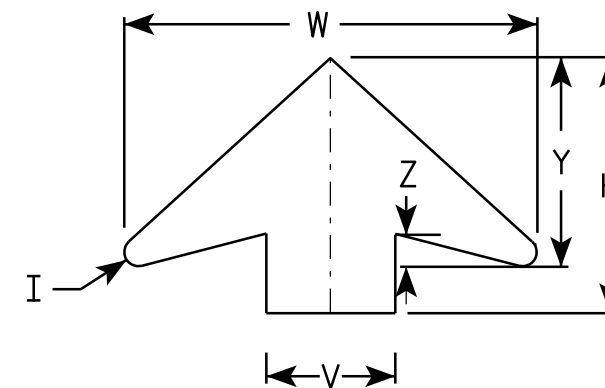


W3-5

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

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

PROJECT NO:

SHEET NO:

E

Notes



Wisconsin Department of Transportation

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