	ORDER OF SHEETS		
PROJECT ID:	Section No. 1 Title Section No. 2 Typico Section No. 3 Estimo Section No. 3 Miscel Section No. 4 Right Section No. 5 Plan c	al Sections and Details ate of Quantities Ilaneous Quantities of Way Plat and Profile	
894	Section No. 6 Stando Section No. 7 Sign F Gootion No. 9 Struct Section No. 9 Comput	ard Detall Drawings Plates ture Plans ter Earthwork Data	
0-00	Section No. 9 Cross	Sections	
-15			
	DESIGN DESIGNATION		
COUNTY:	A.A.D.T. (2018) = 1625 A.A.D.T. (2038) = 2076 D.H.V. = D.D. = 59/41 T. = 6.3% DESIGN SPEED = 45/55 ESALS = 146.0	L 5 MPH 000	
ഗ	CONVENTIONAL SYMBOLS		
TCROIX	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 OF PIPE) COMBUSTIBLE FLUIDS MARSH 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 FOLE	
	WOODED OR SHRUB AREA	European Elephone Pole	

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

8940-00-15



FILE NAME : V:\TRANS-EC\410707 ST CROIX GG\ROADWAY\C3D\SHEETSPLAN\010101_TI.DWG LAYOUT NAME - 010101_TI

ROCK

15.36

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PROJECT WITH: N/A Ē 240-00-

EAU APRIL 2020

GENERAL NOTES

2

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR SHALL COORDINATE THEIR CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA.

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

SHRINKAGE OF EARTHWORK IS VARIABLE. AN AVERAGE FACTOR FOR EXCAVATION COMMON IS 30%.

FILL, AS SHOWN ON THE PLAN SHEETS, PERTAINS TO EMBANKMENT CONSTRUCTED FROM EXCAVATION COMMON. THE FACTOR USED FOR EXPANDING THE FILLS TO COMPUTE THE VOLUME OF MATERIAL REQUIRED IS 1.5.

EXCAVATION BELOW SUBGRADE (EBS) WILL BE MEASURED AND PAID FOR AS EXCAVATION COMMON. THE LOCATION FOR EBS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

WHEN THE QUANTITY OF BASE AGGREGATE DENSE OR HMA PAVEMENT IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD THE DEPTH OF THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

THE EXACT LOCATION AND WIDTH OF DRIVEWAY ENTRANCES WILL BE DETERMINED IN THE FIELD BY THE ENGINEER. ALL DRIVEWAYS ARE TO BE REPLACED IN KIND UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR AS SHOWN ON THE PLANS.

SAWCUT LOCATIONS SHOWN ON THE PLAN ARE SUBJECT TO ADJUSTMENT BY THE ENGINEER IN THE FIELD. THE LINE OF SUCH SAWCUTS WILL BE NEATLY DELINEATED THROUGH THE ASPHALT AND/OR CONCRETE STREETS, DRIVEWAYS AND/OR PARKING LOTS AT THE MATCH LINE AS SHOWN ON THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER WITHOUT ANY DAMAGE TO THE REMAINING PORTION OF THE EXISTING PAVEMENT.

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, VERIFY RELATED DRAINAGE INFORMATION IN THE PLAN AND PROVIDE DOCUMENTATION TO THE ENGINEER.

INLET AND DISCHARGE ELEVATIONS FOR DRAINAGE STRUCTURES SHOWN ON THE PLAN MAY BE ADJUSTED BY THE ENGINEER TO FIT FIELD CONDITIONS.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL WILL NOT BE PERMITTED IN WETLANDS, FLOODWAY OR FLOODPLAIN OF ANY WETLANDS.

SEED, INSTALL EROSION MAT, AND FERTILIZE ALL SALVAGED TOPSOILED AREAS WITHIN 7 WORKING DAYS AFTER GRADING WORK IS COMPLETED.

DO NOT APPLY FERTILIZER WITHIN 20 FEET OF A WATER BODY OR WETLAND.

SEED MIXTURE NO.20 SHALL BE USED THROUGHOUT THE PROJECT, EXCEPT LAWN AREA WHERE NO.40 SHALL BE USED.

EROSION CONTROL MEASURES WILL BE PLACED AS SHOWN ON THE EROSION CONTROL PLAN. THE EXACT LOCATIONS TO BE DETERMINED BY THE ENGINEER. ANY REMOVAL OF ITEMS ARE INCIDENTAL TO THE RESPECTIVE EROSION CONTROL BID ITEM COSTS.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE SALVAGED TOPSOIL, FERTILIZED, SEEDED, TEMPORARY SEEDED AND MULCHED AS DIRECTED BY THE ENGINEER.

RESHAPE AND SEEDING OF ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS OUTSIDE OF THE ENGINEER DETERMINED CONSTRUCTION LIMITS ARE INCIDENTAL TO THE CONTRACT.

NO TREES OR SHRUBS SHALL BE REMOVED WITHOUT APPROVAL BY THE ENGINEER. FINAL LIMITS OF FENCE REMOVAL TO BE DETERMINED BY THE ENGINEER.

HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 110 LB/SY/IN.

STATIONING FOR SIGNS SHOWN IN THE PLANS ARE APPROXIMATE AND THE FINAL LOCATION OF SIGNS ARE TO BE DETERMINED BY THE ENGINEER.

THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING MOTORISTS AND PEDESTRIANS THAT MAY ENTER THE WORK ZONE FROM POSSIBLE HAZARD.

CURB AND GUTTER ELEVATIONS ARE ALONG THE FLAG LINE UNLESS OTHERWISE NOTED.

RADIUS POINTS, UNLESS OTHERWISE NOTED, ARE TO FLAG OF CURB.

EXISTING ELEVATIONS SHALL BE VERIFIED IN THE FIELD.

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88(2012)).

UTILITY CONTACTS

FRONTIER COMMUNICATIONS 521 NORTH 4TH STREET WAUSAU, WI 54403 ATTN: CHRIS POLLACK 715-297-4773 chrLstopher.pollack@ftr.com

XCEL ENERGY 1201 LIVINGSTON ROAD HUDSON, WI 54016 ATTN: DARREN NORDSKOG 715-386-4798 darren.m.nordskog@xcelenergy.com

NORTHWEST COMMUNICATIONS 116 HARRIMAN AVENUE AMERY, WI 54001 ATTN: GREG CARDINAL 715-268-7101 gregcardinal@amerytel.net

CITY OF NEW RICHMOND UTILITIES 156 EAST FIRST STREET NEW RICHMOND, WI 54017 ATTN: JEREMIAH WENDT, CITY ENGINEER 715-246-4167 Jwendt@newrichmondwi.gov

ST CROIX ELECTRIC COOPERATIVE 1925 RIDGEWAY STREET HAMMOND, WI 54015 ATTN: ROB DOOLEY 715-796-7000 robd@scecnet.net

★ DENOTES NOT A MEMBER OF DIGGERS HOTLINE



ORDER OF SECTION 2 SHEETS

Typical Sections Construction Details Intersections Erosion Control & Drainage Signing & Pavement Marking Detour Plan

	PROJECT NO:8940-00-15	HWY:CTH GG	COUNTY:ST CROIX	GENERAL NOTES
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ST CROIX COUNTY CONTACT

ST CROIX COUNTY HIGHWAY DEPARTMENT P.O. BOX 108 920 THIRD STREET HAMMOND, WI 54015 ATTN: JEFF DURKEE 715-245-4205 Jeffery.durkee@sccwi.gov

DESIGN CONTACT

AYRES ASSOCIATES 3433 OAKWOOD HILLS PARKWAY EAU CLAIRE, WI 54701 ATTN: JEFF ABRAMSON, PE 715-834-3161 abramsonj@ayresassociates.com

DNR CONTACT

DNR WEST CENTRAL REGION 1300 WEST CLAIREMONT AVENUE EAU CLAIRE, WI 54701 ATTN: AMY LESIK 715-836-6571 amyl.lesik@wisconsin.gov

SHEET

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PLOT DATE : 10/18/2019 4:43 PM PLOT BY : RESHESKE, CARRIE PLOT NAME :







FILE NAME : V:\TRANS-EC\410707 ST CROIX GG\ROADWAY\C3D\SHEETSPLAN\020301_TS.DWG LAYOUT NAME - 020302_TS

PLOT DATE : 10/18/2019 4:43 PM PLOT BY : RESHESKE, CARRIE PLOT NAME :

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RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP										
	A B					C	:		D			
	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE	SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20	.23 .30	.30 .37	.20	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT						.7095						
CONCRETE	CONCRETE .8095											
BRICK	BRICK .7080											
DRIVES, WALKS	DRIVES, WALKS .7585											
ROOFS	R00FS .7595											
GRAVEL ROADS,	SHOULDE	ERS				.4060						



2

TOTAL PROJECT AREA = 13.031 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 9.309 ACRES



PROJECT NO:8940-00-15	HWY:CTH GG	COUNTY:ST CROIX	CONSTRUCTION DETAILS

2

REQUIRED AT BEGIN AND END PAVING LOCATIONS ON MAINLINE AND SIDEROADS

BUTT JOINT

SHEET

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FILE NAME : V:\TRANS-EC\410707 ST CROIX GG\ROADWAY\C3D\SHEETSPLAN\021001_CD.DWG LAYOUT NAME - 021002_CD

PLOT DATE : 10/18/2019 4:45 PM PLOT BY : RESHESKE, CARRIE PLOT NAME :





FILE NAME : V:\TRANS-EC\410707 ST CROIX GG\ROADWAY\C3D\SHEETSPLAN\021101_ID.DWG LAYOUT NAME - 021102_ID

PLOT DATE : 10/18/2019 4:47 PM PLOT BY : RESHESKE, CARRIE PLOT NAME :

WISDOT/CADDS SHEET 44



WISDOT/CADDS SHEET 42



FILE NAME : V:\TRANS-EC\410707 ST CROIX GG\ROADWAY\C3D\SHEETSPLAN\022001_EC.DWG LAYOUT NAME - 022001_EC



FILE NAME : V:\TRANS-EC\410707 ST CROIX GG\ROADWAY\C3D\SHEETSPLAN\022001_EC.DWG LAYOUT NAME - 022002_EC



FILE NAME : V:\TRANS-EC\410707 ST CROIX GG\ROADWAY\C3D\SHEETSPLAN\023201_PS.DWG LAYOUT NAME - 023201_PS





FILE NAME : V:\TRANS-EC\410707 ST CROIX GG\ROADWAY\C3D\SHEETSPLAN\023201_PS.DWG LAYOUT NAME - 023203_PS PLOT DATE : 10/18/2019 4:54 PM PLOT BY : RESHESKE, CARRIE PLOT NAME :

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	<u>IP</u> F0 <u>x</u> x	F0	
OH	OH	OH	
43+		44+00	
			-
	SEE PLAN & PRO SIGNING FOR STA SEE MISCELLANEC PAVEMENT MARKIN PROJECT.	FILE SHEETS FOR ADDITIONAL 44+00 TO STA 66+00. US QUANTITIES FOR TOTAL NG QUANTITIES TO END OF	
		SHEET	E
PLOT SC	CALE : 1 IN:40 FT	WISDOT/CADDS SHEE	Т 44



FILE NAME : V:\TRANS-EC\410707 ST CROIX GG\ROADWAY\C3D\SHEETSPLAN\027001_DT.DWG LAYOUT NAME - 027001_DT

PLOT BY : RESHESKE, CARRIE PLOT NAME : PLOT DATE : 10/18/2019 4:54 PM

PLOT SCALE : Custom

					Estimate Of	Quantities
					8940-00-15	
Line	Item	Item Description	Unit	Total	Qty	
0002	201.0105	Clearing	STA	9.000	9.000	
0004	201.0205	Grubbing	STA	9.000	9.000	
0006	203.0100	Removing Small Pipe Culverts	EACH	23.000	23.000	
8000	204.0150	Removing Curb & Gutter	LF	285.000	285.000	
010	204.0155	Removing Concrete Sidewalk	SY	51.000	51.000	
0012	204.0165	Removing Guardrail	LF	391.000	391.000	
0014	204.0170	Removing Fence	LF	275.000	275.000	
0016	205.0100	Excavation Common	CY	3,247.000	3,247.000	
0018	208.0100	Borrow	CY	490.000	490.000	
0020	213.0100	Finishing Roadway (project) 01. 8940-00-15	EACH	1.000	1.000	
0022	305.0110	Base Aggregate Dense 3/4-Inch	TON	1,105.000	1,105.000	
0024	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	7.800.000	7.800.000	
0026	325.0100	Pulverize and Relay	SY	16.003.000	16.003.000	
0028	455.0605	Tack Coat	GAL	1.068.000	1.068.000	
0030	460,2000	Incentive Density HMA Pavement	DOL	1.000	1.000	
032	460.6223	HMA Pavement 3 MT 58-28 S	TON	1.584.000	1.584.000	
034	460 6224	HMA Pavement 4 MT 58-28 S	TON	984 000	984 000	
036	460 6243	HMA Pavement 3 MT 58-34 S	TON	176 000	176 000	
038	460 6244	HMA Pavement 4 MT 58-34 S	TON	2 252 000	2 252 000	
040	465 0120	Asphaltic Surface Driveways and Field Entrances	TON	85 000	85 000	
042	465.0315	Asphaltic Flumes	SY	24.000	24.000	
044	520 1018	Apron Endwalls for Culvert Pipe 18-Inch	FACH	34 000	34 000	
046	520 1024	Apron Endwalls for Culvert Pipe 24-Inch	FACH	6,000	6,000	
048	520 1030	Apron Endwalls for Culvert Pipe 30-Inch	FACH	2 000	2 000	
050	520,1000	Apron Endwalls for Culvert Pipe 60-Inch	FACH	4 000	4 000	
052	521 6118	Culvert Pine Corrugated Steel Aluminum Coated 18-	LAON	490.000	490.000	
1052	521.0110	Inch	LI	430.000	430.000	
054	521.6124	Culvert Pipe Corrugated Steel Aluminum Coated 24-	LF	256.000	256.000	
0056	521 6130	Culvert Pipe Corrugated Steel Aluminum Coated 30-	IE	62 000	62 000	
0000	021.0100	Inch	L1	02.000	02.000	
0058	521.6160	Culvert Pipe Corrugated Steel Aluminum Coated 60- Inch	LF	136.000	136.000	
060	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	61.000	61.000	
062	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	380.000	380.000	
064	602.0405	Concrete Sidewalk 4-Inch	SF	463.000	463.000	
066	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	20.000	20.000	
068	602.0605	Curb Ramp Detectable Warning Field Radial Yellow	SF	50.000	50.000	
070	611.0615	Inlet Covers Type F	EACH	1.000	1.000	
072	611.8115	Adjusting Inlet Covers	EACH	2.000	2.000	
074	614.2300	MGS Guardrail 3	LF	337.500	337.500	

02/07/2020 10:40:43 Page 1 3

					Estimate Of	f Quantities
					8940-00-15	
Line	Item	Item Description	Unit	Total	Qty	
0076	614.2610	MGS Guardrail Terminal EAT	EACH	1.000	1.000	
0078	614.2620	MGS Guardrail Terminal Type 2	EACH	1.000	1.000	
0080	618.0100	Maintenance And Repair of Haul Roads (project) 01. 8940-00-15	EACH	1.000	1.000	
0082	619.1000	Mobilization	EACH	1.000	1.000	
0084	624.0100	Water	MGAL	160.000	160.000	
0086	625.0500	Salvaged Topsoil	SY	18,750.000	18,750.000	
8800	627.0200	Mulching	SY	23,350.000	23,350.000	
0090	628.1504	Silt Fence	LF	4,530.000	4,530.000	
0092	628.1520	Silt Fence Maintenance	LF	4,530.000	4,530.000	
0094	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000	
0096	628,1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0098	628.2023	Erosion Mat Class II Type B	SY	800.000	800.000	
0100	628,7015	Inlet Protection Type C	EACH	3.000	3.000	
0102	628 7504	Temporary Ditch Checks	LE	20 000	20 000	
0104	628 7555	Culvert Pipe Checks	FACH	60,000	60,000	
0106	629 0210	Eertilizer Type B	CWT	20 000	20,000	
0108	630 0120	Seeding Mixture No. 20	LB	510 000	510 000	
0110	630.0140	Seeding Mixture No. 40	LB	230.000	230.000	
0112	630 0200	Seeding Temporary	LB	850,000	850.000	
0114	630.0500	Seed Water	MGAI	530,000	530,000	
0116	634 0614	Posts Wood 4x6-Inch X 14-FT	FACH	14 000	14 000	
0118	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	3 000	3 000	
0120	637 2210	Signs Type II Reflective H	SE	68 940	68 940	
0120	637 2230	Signs Type II Reflective F	SE	30,500	30,500	
0122	638 2602	Removing Signs Type II	FACH	16 000	16 000	
0124	638 3000	Removing Small Sign Supports	EACH	16.000	16.000	
0120	642 5001	Field Office Type R		1 000	1 000	
0120	642.0001	Traffic Control Parricodos Type III		720.000	720.000	
0130	642.0705	Traffic Control Warning Lights Type M		1 4 40 000	1 4 40 000	
0132	643.0705	Traffic Control Signs	DAT	5 520 000	5,520,000	
0134	643.0900	Traffic Control		5,520.000	5,520.000	
0130	646 4000	Marking Line Energy 4 Inch		1.000	1.000	
0130	646.1020	Marking Line Epoxy 4-Inch		21,976.000	21,976.000	
0140	646,0000	Marking Line Epoxy 8-Inch		148.000	148.000	
0142	040.0020	Marking Stop Line Epoxy 12-Inch		138.000	138.000	
0144	646.7420	warking Crosswaik ⊨poxy Transverse Line 6-Inch		132.000	132.000	
0146	648.0100		IVII	1.100	1.100	
0148	650.4500	Construction Staking Subgrade		5,688.000	5,688.000	
0150	650.5000			5,688.000	5,688.000	
0152	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	441.000	441.000	



				E	stimate Of	Quantities
					8940-00-15	
Line	Item	Item Description	Unit	Total	Qty	
0154	650.6000	Construction Staking Pipe Culverts	EACH	6.000	6.000	
0156	650.9910	Construction Staking Supplemental Control (project) 01. 8940-00-15	LS	1.000	1.000	
0158	650.9920	Construction Staking Slope Stakes	LF	5,688.000	5,688.000	
0160	690.0150	Sawing Asphalt	LF	376.000	376.000	
0162	740.0440	Incentive IRI Ride	DOL	4,308.000	4,308.000	
0164	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000	
0166	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000	
0168	SPV.0060	Special 01. Adjusting Water Valves	EACH	7.000	7.000	



CLEARING & GRUBBING

STATION TO STATION	201.0105 CLEARING STA	201.0205 GRUBBING STA
$18+00 - 19+00 \\30+00 - 33+00 \\36+00 - 37+00 \\50+00 - 54+00$	1 3 1 4	1 3 1 4
PROJECT TOTALS	9	9

REMOVING SMALL PIPE CULVERTS

SIZE

EARTHWORK SUMMARY

				SALVAGED/						
			205.0100	UNUSABLE	(6)		(2) (4)	(5)	(1)	(3)
			EXCAVATION	PAVEMENT	AVAILABLE	UNEXPANDED	EXPANDED	MASS		208.0100
			COMMON	MATERIAL	MATERIAL	FILL	FILL	ORDINATE +/-	WASTE	BORROW
DIVISION	STATION TO STATION	LOCATION	СҮ	CY	СҮ	СҮ	CY	CY	CY	CY
	9+15 - 66+03	CTH GG	3247		3247	2875	3737	490		490
	UNDISIKIBUTED									

PROJECT TOTALS

(1) WASTE = EXPANDED FILL - EXCAVATION COMMON (FOR INFORMATION ONLY - NOT A BID ITEM)

3247

(2) EXPANSION FACTOR = 1.30

(3) BORROW = EXPANDED FILL - EXCAVATION COMMON

(4) EXPANDED FILL = UNEXPANDED FILL * EXPANSION FACTOR

(5) THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. MINUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. PLUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

203.0100 (6) AVAILABLE MATERIAL = COMMON EXCAVATION - SALVAGED/UNUSABLE MATERIAL

REMOVING CONCRETE SIDEWALK

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STATION TO STATION

PIPE REPLACEMENTS

10+82- 37+75 37+75 - 66+03

UNDISTRIBUTED

PROJECT TOTALS

DRIVEWAYS

STATION	LOCATION	INCHES	MATERIAL	EACH
12+64	RT	18	CMCP	1
12+91	LT	18	CMCP	1
14+74	RT	15	CMCP	1
15+76	LT	18	CMCP	1
16+88	CTH GG	27	CMCP	1
19+12	LT	18	CMCP	1
19+48	RT	18	CMCP	1
21+26	RT	18	CMCP	1
22+11	LT	18	CMCP	1
23+11	RT	18	CMCP	1
24+46	RT	15	CMCP	1
26+10	RT	21	CMCP	1
29+26	RT	18	CMCP	1
33+46	LT	18	CMCP	1
35+67	LT	18	CMCP	1
19+60	PENINSULA RD	18	CMCP	1
30+34	SHAMROCK LN	21	CMCP	1
47+47	LT	15	CMCP	1
50+28	RT	18	CMCP	1
60+31	CTH GG	60	CMCP	1
60+44	CTH GG	60	CMCP	1
63+78	LT	18	CMCP	1
39+67	150TH ST	24	CMCP	1
PROJECT TO	DTAL			23

LOCATI	DN			204.0155 SY
NW QUAI SW QUAI	O CTH O CTH	GG/140TH GG/140TH	ST ST	27 24
PROJEC	T TOTA	L		51

REMOVING GUARDRAIL

STATION TO STATION	LOCATION	204.0165 LF
30+03 - 33+94	RT	391
PROJECT TOTAL		391

REMOVING CURB & GUTTER

LOCATION		204.0150 LF	REMO	VING FENCE	
NW QUAD C NE OUAD C	TH GG/140TH ST TH GG/140TH ST	61 58	STATION TO STATION	LOCATION	204. I
SW QUAD C SE QUAD C	TH GG/140TH ST TH GG/140TH ST	96 70	36+53 - 38+20	RT	2
PROJECT T	OTAL	285	<u>40+75 - 41+50</u>	LT	5

PROJECT NO: 8940-00-15	HWY: CTH GG	COUNTY: ST CROIX	MISCELLANEOUS QUANTITIES

3

490

3

BASE AGGREGATE DENSE

LOCATION	305.0110 3/4-INCH TON	305.0120 1 1/4-INCH TON
CTH GG CTH GG 2 LOCATIONS	464 337 225 79	3845 3407 225 50 273
	1105	7800

PULVERIZE AND RELAY

PROJECT TOTAL		16003
9+15 - 66+03	CTH GG	16003
STATION TO STATION	LOCATION	325.0100 SY

E

HMA PAVEMENT ITEMS

PROJECT TOTALS		1584	176	984	2252	85	1068			
DRIVEWAYS (10)						85				
150TH ST			35					PROJECT	TOTAL	24
SHAMROCK LN			27							-
PENINSULA RD			69					19+35	RT, PENINSULA RD	12
144TH ST			45					19+30	LT, PENINSULA RD	12
37+75 - 66+00	CTH GG			984	984		502			
9+15 - 37+75	CTH GG	1584			1268		566	STATION	LOCATION	405.0515 SY
STATION TO STATION	LOCATION	TON	TON	TON	TON	TON	GAL			465 0215
		3 MT 58-28 S	3 MT 58-34 S	4 MT 58-28 S	4 MT 58-34 S	DRIVEWAYS	TACK COAT		ASPHALTIC FLUMES	
			HMA P.	AVEMENT		SURFACE	455.0605			
		460.6223	460.6243	460.6224	460.6244	ASPHALTIC				
						465.0120				

CULVERT PIPE

		521.6118	521.6124	521.6130	521.6160	520.1018	520.1024	520.1030	520.1060					
										THICK	NESS			
		18-INCH	24-INCH	30-INCH	60-INCH	18-INCH	24-INCH	30-INCH	60-INCH	STEEL	ALUM	INVERT	DISCH	00
STATION	LOCATION	LF	LF	LF	LF	EACH	EACH	EACH	EACH	INCH	IES	EL	EL	SLOPE
12+64	RT	24				2				.064	.060			
12+91	LT	32				2				.064	.060			
14+74	RT	18				2				.064	.060			
15+76	LT	22				2				.064	.060			
16+88	CTH GG			62				2		.079	.075	997.53	996.68	1.37
19+12	LT	18				2				.064	.060			
19+48	RT	26				2				.064	.060			
21+48	RT	28				2				.064	.060			
22+11	LT	28				2				.064	.060			
23+11	RT	26				2				.064	.060			
24+46	RT	20				2				.064	.060			
26+10	RT	32				2				.064	.060			
29+26	RT	42				2				.064	.060			
33+46	LT	44				2				.064	.060			
35+67	LT	24				2				.064	.060			
19+60	PENINSULA RD		110				2			.064	.060	1006.50	1005.35	1.05
30+34	SHAMROCK LN		56				2			.064	.060	1007.65	1007.40	0.45
47+47	LT	32				2				.064	.060			
50+28	RT	44				2				.064	.060			
60+31	CTH GG				68				2	.109	.105	975.32	974.47	1.25
60+44	CTH GG				68				2	.109	.105	975.13	974.30	1.22
63+78	LT	30				2				.064	.060			
39+67	150TH ST		90				2			.064	.060	990.50	987.75	3.06
PROJECT 1	TOTALS	490	256	62	136	34	6	2	4					
NOTES - FINAL LOCATION TO BE DETERMINED BY ENGINEER IN THE FIELD														

PROJECT NO: 8940-00-15

HWY: CTH GG

	SHEET	
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STATION TO STATION 601.0411 NW QUAD CTH GG/140TH ST 61 PROJECT TOTAL 61		30-INCH TYPE	D
NW QUAD CTH GG/140TH ST 61 PROJECT TOTAL 61	STATION	TO STATION	601.0411 LF
PROJECT TOTAL 61	NW QUAD	CTH GG/140TH ST	61
	PROJECT	TOTAL	61

CONCRETE CURB & GUTTER

CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D

3

	601.0557
STATION TO STATION	LF
NE QUAD CTH GG/140TH ST	60
SW QUAD CTH GG/140TH ST	96
SE QUAD CTH GG/140TH ST	72
SW QUAD CTH GG/PENINSULA RD	91
SE QUAD CTH GG/PENINSULA RD	61
PROJECT TOTAL	380

CONCRETE SIDEWALK 4-INCH

STATION	LOCATION	602.0405 SF
9+75 9+75	RT LT	216 247
PROJECT TO	463	

CURB	RAMP DETECT	ABLE	147 A T	CURB R	AMP	DETECTA	ABLE VELLOW
WARN	ING FIELD YE	TTOM	MAP	MING FI		KADIAL	TELLOW
		602.0505					602.0605
STATION	LOCATION	SF	STAT	ION	LOCA	ATION	SF
					_		
9+75	LT	20	9+75		F	۲T	50
PROJECT T	OTAL	20	PROJI	ECT TOT	AL		50

STATION TO STATION	LOCATION	614.2300 GUARDRAIL 3 LF	614.2610 TERMINAL EAT EACH	614.2620 TERMINAL TYPE 2 EACH
30+08.1 - 33+94.4	RT	337.5	1	1
PROJECT TOTALS		337.5	1	1

HWY: CTH GG

PROJECT NO: 8940-00-15

INLET	COVERS TY	PE F
STATION	LOCATION	611.0615 EACH
5+41	RT	1

1

PROJECT TOTAL

ADJUSTING INLET COVERS

STATION	LOCATION	611.8115 EACH	
			STATION
5+37	LT	1	
5+41	RT	1	16+88
			19+48
PROJECT T	OTAL	2	21+26

WATER

LOCATION	624.0100 MGAL
BASE COMPACTION DUST CONTROL	130 30
PROJECT TOTAL	160

SILT FENCE

			628.1520
		628.1504	MAINTENANCE
STATION TO STATION	LOCATION	LF	LF
16+00 - 18+50	LT	250	250
15+00 - 19+25	RT	452	452
22+50 - 24+50	LT	200	200
23+25 - 28+00	RT	426	426
25+00 - 27+00	LT	200	200
30+25 - 32+00	LT	175	175
52+75 - 61+50	LT	857	857
52+75 - 64+50	RT	1210	1210
UNDISTRIBUTED		760	760
PROJECT TOTALS		4530	4530

		628.1910
	628.1905	EMERGENCY
PROJECT	EACH	EACH
8940-00-15	2	2
PROJECT TOTALS	2	2

EROSION MAT CLASS II TYPE B

		628.2023
STATION TO STATION	LOCATION	SY
16+88	RT	20
19+48	RT	10
21+26	RT	10
29+48	RT	10
30+25 - 33+25	RT	557
19+55	PENINSULA RD, LT	15
47+47	LT	10
50+27	RT	10
63+80	LT	10
39+64	150TH ST, LT	15
UNDISTRIBUTED		133

PROJECT TOTAL

800

INLET PROTECTION TYPE C

		628.7015
STATION	LOCATION	EACH
5+36	LT, 140TH ST	1
5+59	LT, 140TH ST	1
10+28	LT	1

PROJECT TOTAL

3

TEMPORARY DITCH CHECKS

PROJECT TOTAL	20
UNDISTRIBUTED	20
STATION	LF
	628.7504

SHEET

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SALVAGED	TOPSOIL,	MULCHING,	FERTILIZER,	&	SEEDING

PROJECT TOTALS		18750	23350	20	510	230	850	530
UNDISTRIBUTED			4600	4	100	45	170	105
8+51 - 66+03	PROJECT	18750	18750	16	410	185	680	425
STATION TO STATION	LOCATION	SY	SY	CWT	LB	LB	LB	MGAL
		TOPSOIL	MULCHING	TYPE B	NO. 20	NO. 40	TEMPORARY	WATER
		SALVAGED	627.0200	FERTILIZER	MIXTURE	MIXTURE	SEEDING	SEED
		625 0500		629 0210	630.0120 SEEDING	630.0140 SEEDING	630 0200	630 0500

CULVERT PIPE CHECKS

PERMANENT SIGNING

<u>C01</u>	VERT PIPE CHECKS	5									
STATION	LOCATION	628.7555 EACH		APPROX		SIGN SIZE	634.0614 POSTS WOOD 4X6-INCH	634.0616 POSTS WOOD 4x6-INCH	637.2210 SIGNS TYPE II	637.2230 SIGNS TYPE II	638.2602 REMOVING SIGNS
			SIGN	STATION	SIGN	WxH	14-FT	16-FT	REFLECTIVE H	REFLECTIVE F	TYPE II
10+36	LT	2	NO	LOCATION	CODE	(INCHES)	EACH	EACH	SF	SF	EACH
12+64	RT	2			1		-		5 00		
12+90	LT	2	1	9+25 L'I'	R2-1	24 X 30	1		5.00		
14+74	RT	2	2	9+50 RT	RI-I D1 1	30 X 30	1		5.18		1
15+77	LT	2	З Д	4+04, 1401A SI 5+41 140TH ST	RI-1 P1_1	30 X 30	1		5.10		1
16+88	CTH GG	5	5	10+50 LT	R1-1 R1-1	30×30	1		5.18		1
19+12	LT	2	6	11+18 RT	T55-56	30 X 36	1		7.50		1
19+48	RT	2	7	13+78 RT	R2-1	24 X 30	1		5.00		1
21+48	RT	2	8	16+37 LT	W3-1	36 X 36	1			9.00	1
22+11	LT	2	9	10+45, 144TH ST	R1-1	30 X 30	1		5.18		1
23+11	RT	2	10	19+58, PENINSULA RD	R1-1	30 X 30	1		5.18		1
24+46	RT	2	11	38+05 RT	W1-2R	30 X 30		1		6.25	1
26+10	RT	2	12	44+25 RT	R2-1	24 X 30	1		5.00		1
29+26	RT	2	13	44+25 LT	R2-1	24 X 30	1		5.00		1
19+55	PENINSULA RD	3	14	30+36 SHAMROCK LN	R1-1	30 X 30	1		5.18		1
30+34	SHAMROCK LN	3	15	49+25 LT	W3-5	36 X 36		1		9.00	1
33+46	LT	2	16	52+15 LT	W1-2L	30 X 30		1		6.25	1
35+67	LT	2	17	39+45 150TH ST	R1-1	30 X 30	1		5.18		1
47+47	LT	2					14	2	60.04	20 50	1.0
50+27	RT	2		PROJECT TOTALS			14	3	68.94	30.50	10
63+80	LT	2									
39+64	150TH ST	3									
UNDISTRIBUTED		10									
BBOIECT TOTAL		60									
PROJECT TOTAL		60									
					TRAFE	IC CONTROL	ITEMS				
						643.0420		643.0705	643	.0900	
					BARRICADES	TYPE III	WARNING LIC	GHTS TYPE A	SIGNS		
			STAGE	DAYS	EACH	DAY	EACH	DAY	EACH I	YAY	
			ENTIRE PI	ROJECT 80	9	720	18	1440	69 5	520	

720

1440

5520

PROJECT NO: 8940-00-15 HWY: CTH GG COUNTY: ST CROIX MISCELLANEOUS QUANTITIES				
	PROJECT NO: 8940-00-15	HWY: CTH GG	COUNTY: ST CROIX	MISCELLANEOUS QUANTITIES

PROJECT TOTALS

IOVING	638.3000		
IGNS	REMOVING SMALL		
PE II	SIGN SUPPORTS		
EACH	EACH	COM	MENT
		"35	MPH"
1	1		
1	1		
1	1		
1	1		
1	1	NEW	RICHMOND KEY CLUB
1	1	"45	MPH"
1	1		
1	1		
1	1		
1	1		
1	1	"55	MPH"
1	1	"45	MPH"
1	1		
1	1	"45	MPH"
1	1		
1	1		
16	16		
10	10		

MARKING LINE EPOXY

		646. 4-I	1020 NCH	646.3020 8-INCH
		WHITE	YELLOW	WHITE
STATION TO STATION	DESCRIPTION	LF	LF	$_{ m LF}$
9+15 - 66+03	CENTERLINE, CTH GG		11200	
9+15 - 66+03	EDGELINE, CTH GG	10540		
4+22 - 4+70	CHANNELIZING, 140TH ST			48
4+22 - 4+70	CENTERLINE, 140TH ST		96	
5+38 - 6+08	CENTERLINE, 140TH ST		140	
34+45 - 35+45	CHANNELIZING, CTH GG			100
SUBTOTALS		10540	11436	148
PROJECT TOTALS		21	976	148

MARKING STOP LINE EPOXY 12-INCH

STATION	LOCATION	646.6020 LF
4+70	140TH ST	32
5+38	140TH ST	22
9+67	CTH GG	30
10+60	CTH GG	22
19+72	PENINSULA RD	32

PROJECT TOTAL

138

MARKING CROSSWALK EPOXY TRANSVERSE LINE 6-INCH

STATION	LOCATION	LF
9+75	CTH GG	132
PROJECT TOTAL		132

LOCATING NO-PASSING ZONE

STATION TO STATION	LOCATION	648.0100 MI
9+15 - 66+00	CTH GG	1.1
PROJECT TOTAL		1.1

CONSTRUCTION STAKING

PROJECT TOTALS	5688	5688	5688
9+15 - 66+03	5688	5688	5688
STATION TO STATION	LF	LF	LF
	SUBGRADE	BASE	SLOPE STAKES
	650.4500	650.5000	650.9920

CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER

	650.5500
LOCATION	LF
NW QUAD CTH GG/140TH ST	61
NE QUAD CTH GG/140TH ST	60
SW QUAD CTH GG/140TH ST	96
SE QUAD CTH GG/140TH ST	72
SW QUAD CTH GG/PENINSULA RD	91
SE QUAD CTH GG/PENINSULA RD	61
PROJECT TOTAL	441

CONSTRUCTION STAKING PIPE CULVERTS

STATION	LOCATION	650.6000 EACH	
16+88	CTH GG	1	
19+60	PENINSULA RD	1	
30+34	SHAMROCK LN	1	
60+31	CTH GG	1	
60+44	CTH GG	1	
39+61	150TH ST	1	
PROJECT	TOTAL	6	

PROJECT NO	: 8940-00-15
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STATION	LOCATION	690.0150 LF
9+15	CTH GG	31
4+22	140TH ST	37
5+40.50	140TH ST PATH	9
6+07.60	140TH ST	32
9+61.50	PATH	10
12+90	LT	24
15+77	LT	12
19+12	LT	12
19+48	RT	16
22+11	LT	16
24+46	RT	15
26+10	RT	12
10+68	144TH ST	22
33+46	LT	17
35+67	LT	12
18+87	PENINSULA RD	25
30+57.50	SHAMROCK LN	16
47+47	LT	13
38+83.86	150TH ST	20
66+03.46	CTH GG	25

SAWING ASPHALT

PROJECT TOTAL

376

ADJUSTING WATER VALVES

			SPV.0060.01
STATION	LOCAT	ION	EACH
9+73	45'	LT	1
9+97	27 '	RT	1
9+99	41'	LT	1
10+00	29 '	RT	1
10+03	27 '	RT	1
36+28	30'	RT	1
36+44	53'	RT	1
PROJECT	TOTAL		7

PROJECT TOTAL

SHEET

3

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RIGHT-OF-WAY PLAT COUNTY TRUNK HIGHWAY "GG" (140TH STREET TO 150TH STREET)

CONVENTIONAL SYMBOLS

			AT W
PUBLIC LAND S FOUND AND MO	SURVEY SYSTEM	CORNER	1 6 2 X 12 7 3

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PP

WEIGHING 1.68 LBS.	PER LINE	AR FOC	SET, DT
1" DIAMETER STEEL SET IN ASPHALT	"SURVEY	MARK"	NAIL

1-5/16" DIAMETER IRON PIPE FOUND, UNLESS OTHERWISE NOTED 2-3/8" DIAMETER IRON PIPE FOUND

RIGHT-OF-WAY POINT NUMBER (1000) PREVIOUS HIGHWAY RIGHT-OF-WAY RECORD {

QUARTER SECTION OR QUARTER-QUARTER -SECTION LINE AS LABELED

MUNICIPAL OR JURISDICTIONAL BOUNDARY EXISTING PROPERTY LINE PL EXISTING HIGHWAY/ROAD RIGHT-OF-WAY

PROPOSED	HIGHWAY/	ROAD F	RIGHT-OF-WA	Y—			-
PROPOSED,	/DESIGNED	SLOPE	INTERCEPT	-	 	-	2

PROPOSED FEE RIGHT-OF-WAY (HATCHING VARIES BY LANDOWNER) TEMPORARY LIMITED EASEMENT TLE

PROPOSED TEMORARY LIMITED EASEMENT (AREA AND PURPOSE AS LABELED)	<u></u>
INDEXED LANDOWNER INTEREST	(10)

DENOTES CHORD BEARING

DENOTES CHORD LENGTH

TANGENT BEARING INTO CURVE

TANGENT BEARING OUT OF CURVE

EXISTING ELECTRICAL POWER POLE

EXISTING OVERHEAD ELECTRIC LINE

EXISTING UNDERGROUND ELECTRIC LINE EXISTING UTILITY JUNCTION BOX

EXISTING UNDERGROUND TELEPHONE LINE

EXISTING UNDERGROUND TELEVISION LINE

EXISTING UNDERGROUND GAS LINE

EXISTING STORM WATER CATCH BASIN EXISTING WATER MAIN EXISTING WATER HYDRANT

EXISTING PUBLIC ROAD OR STREET SIGN

COMPENSABLE UTILITY JUNCTION BOX

COMPENSABLE ELECTRICAL POWER POLE

EXISTING MANHOLE

EXISTING SANITARY SEWER EXISTING STORM WATER SEWER

EXISTING UNDERGROUND FIBER-OPTIC LINE

DENOTES ARC LENGTH

EXISTING LIGHT POLE

EXISTING GUY ANCHOR

INDEXED UTILITY OWNER INTEREST		
CERTIFIED SURVEY MAP		
DENOTES ST. CROIX COUNTY COORDINATE VALUE (Y: NORTHING AND X: EASTING)	Y X	
DENOTES CENTERLINE		

CERTIFIED SURVEY MAP	C.S.M.	
DENOTES ST. CROIX COUNTY COORDINATE Y VALUE (Y: NORTHING AND X: EASTING)	392000.0000 573000.0000	
DENOTES CENTERLINE	CL	
DENOTES POINT OF INTERSECTION	PI	
DENOTES POINT OF CURVATURE	PC	
DENOTES POINT OF TANGENCY	PT	
DENOTES POINT ON CURVE	POC	
DENOTES POINT ON TANGENT	POT	
DENOTES DEGREE OF CURVE (ARC DEFINITION)	D	
DENOTES RADIUS LENGTH	R	
DENOTES CENTRAL ANGLE	Δ	

PLAT NOTES

HORIZONTAL POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN, ST. CROIX COUNTY COORDINATES, NADB3 (1991), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS FOUND OR PLACED ARE DENOTED IN THE CONVENTIONAL SYMBOLS AND MAPPED OR SHOWN ON THE DETAIL SHEETS OF THIS PLAT. RIGHT-OF-WAY MONUMENTS PLACED SHALL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS, REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM, AS MAPPED OR SHOWN ON THE DETAIL SHEETS OF THIS PLAT.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM PLATS, MAPS AND DOCUMENTS OF PUBLIC RECORD.

- EXISTING HIGHWAY RIGHT-OF-WAY AND ALIGNMENT AS SHOWN ON THIS PLAT IS BASED ON THE FOLLOWING: ~ '1957' HIGHWAY CONVEYANCES FROM ST. CROIX COUNTY HIGHWAY PROJECT 50-GG ~ '1960' HIGHWAY CONVEYANCE FROM ST. CROIX COUNTY HIGHWAY PROJECT 80-GG-1 ~ '1989' HIGHWAY CONVEYANCES, DIMENSIONED RIGHT-OF-WAY PLANS AND FOUND MONUMENTS, FROM ST. CROIX COUNTY HIGHWAY PROJECT 85-GG-1 ~ THE COMPLIATION OF RECORDED PLATS, RECORDED CENTERED SURVEY MAPS AND FULDE MAPS OF SURVEY IN ST. CROIX COUNTY ~ VERIFIED WITH THE EXISTING AND TRAVELED CENTERLINE OF COUNTY TRUNK HIGHWAY "GG"

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

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE EXISTING CENTERLINE ALIGNMENT, AS SHOWN ON THIS PLAT.

LOCATION SKETCH



LENGTH OF PROJECT CENTERLINE= 5751.83 FEET OR 1.089 MILES

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
8940-00-14	4.01	6
PLAT OF RIGHT CITY OF 140TH STREE C.T.H. "GG"	-of-way require new richmond T - 150TH S st.	ED FOR STREET CROIX COUNTY
DATE: 12-26-2019		





REVISIONS

07/17/19: ADDED CITY OF NEW RICHMOND AS LAND AND UTILITY INTEREST ON SHEET 4.02. UNDERGROUND ELECTRIC ON SHEETS 4.03 AND 4.04 LABELED "CITY OF NEW RICHMOND UTILITES".

12/26/19: CHANGED LAND INTEREST FOR PARCEL 10 ON SHEETS 4.02 AND 4.04, FROM FEE TO TEMPORARY LIMITED EASEMENT. CHANGED RIGHT-OF-WAY BOUNDARY AND INVERSE TABLES ON SHEETS 4.03 AND 4.04, TO EXCLUDE THE ABOVE PARCEL 10 FEE INTEREST. REMOVED (SHEET 4.04) "RELEASE OF RIGHTS" FROM FROM UTILITY INTERESTS 24 AND 27, WITHIN SCHEDULE OF LAND INTERESTS 24 AND 27, WITHIN SCHEDULE OF LAND

RIGHT-OF-WAY PLAT COUNTY TRUNK HIGHWAY "GG" (140TH STREET TO 150TH STREET)

	SCHEDULE OF LAND INTERESTS						
PARCEL	SHEET NUMBER	OWNER(S)	INTEREST REQUIRED	RIGHT-OF-WAY REQUIRED			
NUMBER				NEW R/W	EXISTING R/W	TOTAL R/W	TEMPORART LIMITED EASEMENT
1	4.03	GLENDETTA A. POWERS REVOCABLE LIVING TRUST	FEE	0.02 ACRES	0.09 ACRES	0.11 ACRES	
2	4.03	TODD L. ANDERSON AND KIM D. OLIEN	TLE				0.003 ACRES
3	4.0 5	RYAN L. AND MICHELLE C. CARLSON	FEE & TLE	0.10 ACRES	0.23 ACRES	0.33 ACRES	0.003 ACRES
4	4.03	LAWRENCE J. AND DAWN A. PALAZZO	FEE	0.10 ACRES	0.23 ACRES	0.33 ACRES	
5	4.03	MARGARET J. HAMBLE	FEE	0.10 ACRES	0.23 ACRES	0.33 ACRES	
6	4.03	MATTHEW AND KATHLEEN J. BINFORD	FEE	0.10 ACRES	0.23 ACRES	0.33 ACRES	
7	4.03	DENNIS K. EARLEY	TLE				0.04 ACRES
8	4.03	TERRY A. AND SHERYL J. NASER	FEE & TLE	0.02 ACRES	0.32 ACRES	0.34 ACRES	0.17 ACRES
9	4.03	JOHN H. AND JOAN M. JACOBSON	TLE				0.06 ACRES
10	4.04	AMANDA ENGLUND	TLE				0.07 ACRES
12	4.04	SCOTT E. AND MARY J. HANSEN	TLE				0.01 ACRES
14	4.04	BILLIE JO BRIESE	FEE & TLE	0.02 ACRES			0.01 ACRES
15	4.05	PATRICK J. AND LISA A. EARLEY	FEE & TLE	0.05 ACRES	0.26 ACRES	0.31 ACRES	0.05 ACRES
16	4.05	ELMER AND MABEL EARLEY ESTATE	TLE				0.06 ACRES
17	4.06	JOHN A. AND LORI A. SCHMELTER	TLE				0.01 ACRES
18	4.06	CHARLES R. AND SUSAN K. SERSEN	TLE				0.02 ACRES
19	4.06	LYNN T., JR. AND NILA M. FORREST	FEE	0.15 ACRES	2.63 ACRES	2.78 ACRES	
20	4.06	SHANNON M. MATTISON	FEE	0.07 ACRES			
21	4.06	ELLEN GUILD	FEE	0.03 ACRES			
22	4.06	ADAM R. AND STEPHANIE M. KAHLER	FEE	0.32 ACRES	0.01 ACRES	0.33 ACRES	
23	4.06	DAVID STEEL	FEE	0.02 ACRES	0.11 ACRES	0.13 ACRES	
24	4.03 & 4.06	FRONTIER NORTH, INC. D/B/A FRONTIER COMMUNICATIONS	RELEASE OF RIGHTS				
25	4.03 & 4.04	NORTHERN STATES POWER COMPANY D/B/A/ XCEL ENERGY	RELEASE OF RIGHTS				
26	4.03 & 4.04	NORTHWEST COMMUNITY COMMUNICATIONS, INC. D/B/A NORTHWEST COMMUNICATIONS	RELEASE OF RIGHTS				
27	4.06	ST. CROIX ELECTRIC COOPERATIVE	RELEASE OF RIGHTS				
28	4.03	CITY OF NEW RICHMOND	TLE				0.31 ACRES
29	4.03 & 4.04	CITY OF NEW RICHMOND UTILITIES	RELEASE OF RIGHTS				

NOTE: OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PIOR TO THE TRANSFER OF LAND INTERESTS TO THE COUNTY.

PROJECT NUMBER: 8940-00-14	HIGHWAY: C.T.H. "GG"	ST. CROIX COUNTY, WISCONSIN	SCHEDULE OF LANDS AND INTERESTS	DATE: 12-26-2019	SHEET 4.02	Ē













FILE NAME : V:\TRANS-EC\410707 ST CROIX GG\ROADWAY\C3D\SHEETSPLAN\050101_PP.DWG LAYOUT NAME - 050102_PP

PLOT NAME :





LAYOUT NAME - 050104_PP

Standard Detail Drawing List

08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08D01-20A	CONCRETE CURB & GUTTER
08D01-20B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-20A	CURB RAMPS TYPES 1 AND 1-A
08D05-20B	CURB RAMPS TYPES 2 AND 3
08D05-20C	CURB RAMPS TYPES 4A AND 4A1
08D05-20D	CURB RAMPS TYPE 4B AND 4B1
08D05-20E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-20F	CURB RAMPS RADIAL DETECTABLE WARNING FIELD APPLICATIONS
08D05-20G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D21-01	DRIVEWAYS WITHOUT CURB & GUTTER
08D22-01	DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F07-05	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED SIDE DRAINS
08F08-02	STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED CROSS DRAIN
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE
14B42-06A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-06D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B47-02A	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-02B	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-02C	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
15A01-13A	MARKER POST FOR RIGHT-OF-WAY
15A01-13B	FLEXIBLE MARKER POST FOR RIGHT-OF-WAY
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-07A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-07B	BARRI CADES AND SI GNS FOR VARI OUS CLOSURES
15C02-07C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C03-05	BARRI CADES AND SI GNS FOR SI DEROAD CLOSURES
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M. P. H. OR GREATER TWO-WAY UN
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C08-19A	LONGI TUDI NAL MARKI NG (MAI NLI NE)
15C08-19B	PAVEMENT MARKING (TURN LANES)
15C08-19C	PAVEMENT MARKING (TURN LANES)
15C33-03	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-03A	PAVEMENT MARKING (INTERSECTIONS)
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

NS NS E INTERSECTION BYPASS LANE

NDIVIDED ROAD OPEN TO TRAFFIC



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- SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT. PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION
- INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB &
- WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT
- UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-O" BEHIND THE BACK OF CURBS.
- (2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- (3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED
- (4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.
- (6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.
- (8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC

PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

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

* BIKE LANE IS NOT SHOWN.

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CONCRETE CURB & GUTTER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION


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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

LEGEND

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

CURB RAMPS TYPE 1 AND 1-A

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



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

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

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

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TYPE 4B AND 4B1

DEPARTMENT OF TRANSPORTATION

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

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GENERAL NOTES

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

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

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

TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

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

PLAN VIEW

PL	A٨	I V	/16	V
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А	1.6"	2.4"
В	0.65"	1.5"
C	ملہ	-14
C	*	*

MIN.

MAX.

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

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RADIAL PLATE

2' - 0'

(TYPICAL)

- DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS, PERFORM PRE-LAYOUT PRIOR
- FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION
- DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER

PLAN VIEW RADIAL WEDGE PLATE CONNECTION DETAIL

CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2019 DATE

/S/ Rodney Taylor ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

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TYPICAL DRIVEWAY PROFILES

IN FILL

DRIVEWAYS WITHOUT CURB & GUTTER	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED December, 2016 /S/ Rodney Taylor DATE ROADWAY STANDARDS DEVELOPMEN FHWA UNIT SUPERVISOR	 лт

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TYPICAL CROSS SECTION FOR PRIVATE DRIVE OR FIELD ENTRANCE ASPHALTIC SURFACE

IN FILL

GENERAL NOTES

() DESIGN WILL DETERMINE FINAL DRIVEWAY ASPHALTIC THICKNESS BASED ON TYPE OF USAGE AND LOADINGS.

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DRIVEWAYS WITHOUT CURB & GUTTER RESURFACING PROJECTS RURAL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED December, 2016 /S/ Rodney Taylor DATE ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR D.D. 8 D 22

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GENERAL NOTES

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

- $\textcircled{\sc 1}$ horizontal brace required with 2" x 4" wooden frame or equivalent at top of posts.
- (2) FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- (3) WOOD POSTS SHALL BE A MINIMUM SIZE OF $1/_8$ " X $1/_8$ " OF OAK OR HICKORY.
- (4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.

(WHEN REQUIRED BY THE ENGINEER)

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END VIEW

SIDE VIEW

CULVERT PIPE CHECK (INSTALL ON INLET END ONLY)

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SDD 08E15 - 01

CULVERT PIPE CHECK

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED May 2019 DATE

/S/ Daniel Schave EROSION CONTROL ENGINEER

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GENERAL NOTES

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

 \bigoplus 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 II/30/94 DATE FHWA

CHIEF ROADWAY DEVELOPMENT ENGINEER

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GENERAL NOTES

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

SLOPED END SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS, SECTION 521 FOR STEEL APRON ENDWALLS.

SAFETY BARS SHALL BE FABRICATED FROM GALVANIZED STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL.

۱	PRON S	I ENDW Loped	ALLS F SIDE D	OR CORAINS	ULVERT	PIPE		
0	NS (Inc	hes)			L DIMEN	SIONS		
	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
	21	37	4:1	20	6:1	30	10:1	70
	24	40	4:1	32	6:1	48	10:1	100
	27	43	4:1	44	6:1	66	10:1	130
	30	46	4:1	56	6:1	84	10:1	160
	36	60	4:1	80	6:1	120	10:1	220
	42	66	4:1	104	6:1	156	10:1	280
Τ	48	80	4:1	128	6:1	192		_
	54	86	4:1	152	6:1	228		
	60	92	4:1	176	6:1	264		
	66	98	4:1	200	6:1	300		

STEEL APRON ENDWALLS FOR PIPE ARCH SLOPED SIDE DRAINS

sio	NS (Inc	hes)	L DIMENSIONS						
	W	OVERALL WIDTH	SLOPE	length Inches	SLOPE	length Inches	SLOPE	length Inches	
	30	44	4:1	19	6:1	30	10:1 ②	70	
-	27	43	4:1	20	6:1	30	10:1	70	
	30	46	4:1	32	6:1	48	10:1	100	
- -	34	50	4:1	40	6:1	60	10:1	120	
1	41	65	4:1	56	6:1	84	10:1	160	
	48	72	4:1	76	6:1	114	10:1	210	
	55	87	4:1	92	6:1	138			
	63	95	4:1	112	6:1	168			
- -	70	102	4:1	132	6:1	198			

SECTION B-B

APPROVED

9/14/2012 DATE FHWA

/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER

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

SAFETY GRATES SHALL BE FABRICATED FROM 3-INCH DIAMETER GALVANIZED PIPE MEETING THE REQUIREMENTS OF ASTM A-53, GRADE B, SCHEDULE 40 OR APPROVED EQUAL. THE LONGITUDINAL BAR SHALL BE WELDED TO THE TRANSVERSE BARS WHERE THE BARS CROSS. THE NUMBER OF TRANSVERSE BARS REQUIRED WILL VARY DEPENDING ON THE LENGTH OF THE

SLOPED STEEL ENDWALLS LOCATED AT THE ENDS OF CONCRETE CULVERT PIPE SHALL BE

EEL	EL APRON ENDWALLS FOR CULVERT PIPE CROSS DRAINS								
HICK.	D	MENSIO	NS (Inc	hes)		L DIME	NSIONS		
GAGE	A	Н	W	OVERALL WIDTH	SLOPE	length Inches	SLOPE	LENGTH INCHES	
12	12	9	42	66	4:1	104	6:1	156	
12	16	12	48	80	4:1	128	6:1	192	
12	16	12	54	86	4:1	152	6:1	228	
12	16	12	60	92	4:1	176	6:1	264	

END	WALL	.S FC	R PI	PE A	RCH SL	OPED	CROS	SS DR	AINS
MIN.	THICK.	D	imensio	NS (Inc	hes)		l dimei	VSIONS	
IN.	GAGE	A	н	W	OVERALL WIDTH	SLOPE	LENGTH INCHES	SLOPE	LENGTH INCHES
.079	14	12	9	41	65	4:1	56	6:1	84
.109	12	12	9	48	72	4:1	76	6:1	114
.109	12	16	12	55	87	4:1	92	6:1	138
.109	12	16	12	63	95	4:1	112	6:1	168
.109	12	16	12	70	102	4:1	132	6:1	198
.109	12	16	12	77	109	4:1	148	6:1	222

STEEL APRON ENDWALLS FOR CULVERT PIPE AND PIPE ARCH SLOPED CROSS DRAINS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/5/2012 DATE FHWA

/S/ Jerry H.Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER

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25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS

DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS

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SECTION THRU W-BEAM RAIL

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MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

DEPARTMENT OF TRANSPORTATION

SDD 14B42 06c

SDD 14B42 06d

GENERAL NOTES

- (A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL) AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.
- (B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED
- © DIFFERENT MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.
- D ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF - TAPPING SCREWS. ONE SCREW PER CORNER.
- E HARDWARE MAY VARY BETWEEN MANUFACTURER SEE MANUFACTURER'S DRAWING FOR INFORMATION.

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

SEE SDD 14B42 FOR MORE INFORMATION.

★ DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL

SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

THE CENTER OF THE UPPER 3 $\frac{1}{2}$ " DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.

GUARD (MGS)

SECTION C - C **TYPICAL AT POST NOS. 3 - 9**

SECTION B - B TYPICAL AT POST NO. 2*

POST BOLT

(TYP.)

SDD 14B44 - 04b

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BILL OF MATERIALS

MAT SEE M	DESCRIPTION TERIALS PROVIDED BY MGS EAT MANUFACTURER. ANUGACTURER'S DETAILS FOR MORE INFORMATION.
UPPER F	POST NO. 1 6" X 6" TUBE
LOWER F	POST NO. 1
WOOD C	RT
WOOD B	LOCKOUT
PIPE SLE	EEVE
BEARING	S PLATE
BCT CAB	BLE ASSEMBLY
ANCHOR	R CABLE BOX
GROUNE) STRUT
PERFOR	ATED W-BEAM RAIL END PANEL, 12'-6" LONG.
STANDAI SECTION	RD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. IS VARY IN LENGTH.
IMPACT I	HEAD
EAT MAR (SEE APF	RKER POST - YELLOW PROVED PRODUCTS LIST)
SOIL PLA	TE
UPPER P	POST NO. 2
LOWER F	POST NO. 2

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SDD14B44 - 04b

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

SDD 14B44 - 04c

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GENERAL NOTES

SEE SDD 14 B 42 FOR MORE INFORMATION.

END SECTION BOLTS AND NUTS HAVE THE SAME MATERIAL REQUIREMENTS AS SPLICE BOLTS.

FOUNDATION TUBE BOLTS ARE $\frac{7}{8}$ " DIAMETER ASTM A307 HEX HEAD BOLT. FOUNDATION TUBE BOLTS REQUIRE ASTM A563 A NUT AND TWO ASTM F844 $\frac{7}{8}$ " DIAMETER FLAT WASHERS. INSTALL ONE WASHER UNDER BOLT HEAD AND ONE WASHER UNDER NUT.

ANCHOR BRACKET AND GROUND STRUT BOLTS ARE A 5/8" DIAMETER ASTM A307 HEX HEAD BOLT. ANCHOR BRACKET BOLTS REQUIRE ASTM A563 A NUT AND TWO ASTM F844 5%" DIAMETER FLAT WASHERS. INSTALL ONE WASHER UNDER BOLT HEAD AND ONE WASHER UNDER NUT.

W-BEAM END SECTION ROUNDED HAS THE SAME MATERIAL PROPERTIES AS STANDARD STEEL RAIL.

(A) TOP OF FOUNDATION TUBE SHALL BE NO MORE THAN 3" ABOVE FINISHED GROUND.

(B) FOR NEW CONSTRUCTION TOP OF RAIL IS 31" ± 1". FOR EXISTING INSTALLATIONS TOP OF RAIL IS BETWEEN 273/4" TO 32" ± 1".

W BEAM END SECTION ROUNDED

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

DEPARTMENT OF TRANSPORTATION

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2 a

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4

8¹/8"

5½"

5⁄16 " R. (TYPICAL)

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- 11/8" DIA.

2 C MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION APPROVED /S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER June 2014 DATE FHWA S

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GENERAL NOTES

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

A STEEL MARKER POST FOR RIGHT-OF-WAY SHALL BE PLACED IN THE RIGHT-OF-WAY, WITH THE BACK OF THE POST ON THE LONGER RIGHT-OF-WAY TANGENT, 6 INCHES TO 24 INCHES FROM EACH TYPE 2 MONUMENT TO SERVE AS A GUARD POST, AND AT OTHER LOCATIONS AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

THE "R/W" PLAQUE SHALL FACE THE ROADWAY AND THE INFORMATIVE PLAQUE SHALL FACE AWAY FROM THE ROADWAY. R/W AND INFORMATIVE PLAQUES WILL BE FURNISHED BY THE DEPARTMENT OF TRANSPORTATION.

STEEL MARKER POSTS SHALL MEET THE MINIMUM MATERIAL REQUIREMENTS FOR STEEL DELINEATOR POSTS; EXCEPT POSTS PAINTED WITH FEDERAL YELLOW ENAMEL NEED NOT BE ZINC COATED.

(1) IN AREAS OF SOLID ROCK, DRILL A BORE HOLE 2" GREATER THAN THE WIDEST DIMENSION OF THE POST CROSS SECTION INTO THE ROCK TO A MINIMUM DEPTH OF 12 INCHES. CUT OR SPLICE THE POST SO THAT A MINIMUM LENGTH OF 3'10" PROTRUDES ABOVE THE GROUND. BLOW OUT THE BORE HOLE IN THE ROCK USING COMPRESSED AIR.

FILL THE BORE HOLE WITH CEMENT GROUT, OR EQUIVALENT. DEPENDING ON THE

MIN. WEIGHT 1.12 LB./FT. SECTION A-A

> THREE ⅔" X ⅔" GALVANIZED STEEL BOLTS WITH GALVANIZED LOCKWASHER AND NUT OR GALVANIZED SELF-LOCKING NUT

SECTION B-B

THREE ⅔" X ⅔" GALVANIZED STEEL BOLTS WITH GALVANIZED LOCKWASHER AND NUT OR GALVANIZED SELF-LOCKING NUT

DO NOT SPLICE BELOW GRADE

GENERAL NOTES

FLEXIBLE MARKER POST

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FOR CULVERT END

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SUPPORTS.

FULL ROAD CLOSURES.

THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

- ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW: R11 - 2 SHALL BE 48" X 30"
 - R11 3 SHALL, R11 4 AND R10 61 SHALL BE 60 " X 30" M4 - 9 SHALL BE 30" X 24"
 - M3 X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
 - M4 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

 - D1 X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
 - R1 1 SHALL BE 36" X 36"
- (1)TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING
- (2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- (6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE SIGNS AS SHOWN.
- (7)"EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

November 2018 DATE

WORK ZONE ENGINEER

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GENERAL NOTES

AS APPROVED BY THE ENGINEER.

NEEDED AND AS APPROVED BY THE ENGINEER.

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

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

NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

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

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



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July 2018 DATE

WORK ZONE ENGINEER





TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS





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GENERAL NOTES

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

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

ARROW SYMBOL () SHOWS DIRECTION OF TRAVEL

LEGEND

"T" MARKING

POST MOUNTED SIGN

6

LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

7/2018 /S/ Matthew R. Rauch DATE STATE SIGNING AND MARKING ENGINEER

FHWA

8-19a C 15 Δ Δ S

















(INTERSECTIONS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



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DEPARTMENT OF TRANSPORTATION

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WASHER PLACEMENT WHEN SIGN HAS OTHER THAN TYPE H OR TYPE F FACE

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 - 5/6" X 6-1/2" OR 7" LENGTH W/ NUTS SOUARE STEEL POSTS (2" x 2") MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS RIVETS - 3/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL 0.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 * TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER

OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SO. FT. REQUIRE THE USE OF 3 FASTENERS.

AT.	TACHMENT OF SIGNS TO POSTS
S DEPART	TATE OF WISCONSIN MENT OF TRANSPORTATION
APPROVED	
June 2017	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	

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2b 38-Δ 15 Δ Δ S



PROJECT NO:	HWY:	COUNTY:	

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

7

PLOT DATE : 21-AUG-2017 16:04 PLOT BY : \$\$...plotuser...\$\$ PLOT NAME :

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4. 2. If signs are mounted on barrier wall, see 3. For expressways and freeways, mounting height is 7'- 3" (\pm) or $6'-3''(\pm)$ depending upon existence 4. J-Assemblies are considered to be one sign for mounting height. 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 8. Folding signs shall be mounted at a height of $5'-3''(\pm)$ or as directd by the Engineer. 9. The Double Arrow sign (W12-1) shall be mounted at a height of $2'-3''(\pm)$. The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of $4'-3''(\pm)$. TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS WISCONSIN DEPT OF TRANSPORTATION APPROVED Matther & Raus for State Traffic Engineer DATE 8/21/17 SHEET NO: Ε PLOT SCALE : 100.601251:1.000000 WISDOT/CADDS SHEET 42





PROJECT NO:	HWY:	COUNTY:		
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN		PLOT DATE : 27-JAN-2014 09	:48 PLOT BY : mscsja	PLOT NAME :

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

SHEET NO:

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

Ε



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

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GENERAL NOTES

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

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

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

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

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

PLOT SCALE : 108.188297:1.000000

WISDOT/CADDS SHEET 42



PROJECT NO:

7

with ASTM Designation: A 153, Class D, or SC 3

 $\frac{3}{8}$ " X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

er	ATTACHMENT OF SIGNS
1+	TO POSTS
)n,	WISCONSIN DEPT OF TRANSPORTATION
	APPROVED Matthew R Rauch
	for State Traffic Engineer
	DATE <u>8/11/16</u> PLATE NO. <u>A4-8.8</u>
	SHEET NO: E





FILE NAME : C:\Users\Projects\tr_stdplate\A411.DGN

GENERAL NOTES

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

	4	Х	ô	WOO	DF	POST	
		MOD	IF	FICA	TI	SNC	
	WISC	onsin l	DEF	PT OF T	RANSI	PORTATION	'
	APPROVE	D		hester .	Γέ	Spang	
			tor	State Tr	affic Er	ngineer	
	DATE 3	/27/9	<u>17</u>	PLA	TE NO	<u>A4-11.2</u>	2
			9	SHEET	N0:		Ε
OT SCALE	E:6.20 7 33	8:1.0000	000	WISD	от/с	ADDS SHEE	т 42



FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn

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

GENERAL NOTES

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

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

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

<u>SE</u>	<u>e detail b</u>
	STANDARD SIGN
	SIGN BANDING DETAILS
	WISCONSIN DEPT OF TRANSPORTATION
	APPROVED Matthe Rauch
	DATE 6/10/19 PLATE NO. 45-9.4
	SHEET NO: E
PLOT SCAL	E:\$\$plotscale\$\$ WISDOT/CADDS SHEET 42



GENERAL NOTES

- WISDOT STANDARD SPECIFICATIONS
- AND 0.025" THICKNESS
- 9 S.F. 3 FASTENERS SHALL BE USED.
- with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE 11/4" O.D. X 3/8" I.D. X 1/16"
- OR TYPE F FACE SIGN

 \rightarrow LAG BOLTS SHALL BE $\frac{3}{8}$ " X 2¹/₂"

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A510.dgn

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

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

3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS 4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER: a. Hot dip or mechanically galvanized in accordance 8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $\frac{3}{8}$ " I.D. X .080 FOR TYPE H

BLOCK BA (V-BLC	ANDING DETAIL DCK OPTION)	
WISCONSIN DE	PT OF TRANSPORTATION	
APPROVED	atther R Rauch	
ļ <i>f</i>	or State Traffic Engineer	
DATE <u>6/10/19</u>	PLATE NO	
	SHEET NO:	Ξ
	WISDOT/CADDS SHEET	42





FILE NAME : C:\CAEfiles\Projects\tr_stdplate\I5556B.DGN

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Sign Post
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PLOT SCALE

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		I55	-50	6B		
	WISCONS	SIN DEPT	OF TR	ANSPOR	TATION	'
	APPROVED	Matt	ther	R.	Rau	h
		for st	ate Trat	fic Engine	er	
	DATE _4/3	<u>26/16</u>	PLAI	E NO.15	5-56B.	2
		SHEET	NO	:		Ε
: 1.9458	342:1.000000) wis		CADDS	SHEE	r 42

PLOT DATE : 26-APR-2016 17:29 PLOT BY : mscj9h













SIZE	Α	В	С	D	E	F	G	н	I	J	ĸ	L	м	N	0	P	0	R	S	Т	U	v	W	x	Y
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							
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							
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							
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							
PRC	JECT	NO:					ни	/Y:					COUN	TY:											
FILE N	AME : C:	\Users\F	PROJECTS\+	r_stdpla	te\M15A.D	GN										PLOT DAT	E : 29-SE	P-2011 11	:25	PLOT	BY : mscs	sja	F	LOT NAME	E :

C:\Users\PROJECTS\tr_stdplate\M15A.DC

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PLOT DATE : 29-SEP-2011 11:25

NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. 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

Z	Areo sq. ft.		CTH N	MARKER	
		M1-5	A FOR	ASSEMBLIE	S
	4.0	WISCON	SIN DEPT C	OF TRANSPORTATIC	w
	9.0	APPROVED	M	1 0 0	/
	9.0		_/latt	her R Race	<u></u>
	9.0	DATE 9/2	7/11	PLATE NO. MI-5A	.8
			SHEET	N0 :	E
		47.1 00000			



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

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

7 Areg	STANDARD SIGN
∠ sq. tt.	M4 - 8
2.0	WISCONSIN DEPT OF TRANSPORTATION
4.5	APPROVED Matther R Rauch
	DATE <u>11/10/10</u> PLATE NO. <u>M4-8.2</u>
	SHEET NO: E
PLOT SCALE : 4.7	67233:1.000000 WISDOT/CADDS SHEET 4



- WIS DOT Standard and STRUCTURE CON
- 2. Color:
 - Background Or Message – Black
- 3. Message Series -
- 4. Corners may be so material is plywood as shown. When ba corners and borde



SIZE	Α	В	С	D	E	F	G	н	I	J	к	L	М	N	0	P	0	R	S	Т	U	v	w	Х	Y	Γ
1																										ſ
2	24	18	1 1/8	3⁄8	1/2	6	2	2	4 3/4	9 3⁄4																ſ
3	3 30 24 1 1/8 3/8 1/2 8 2				2 1/2	3	6 3⁄4	13																ſ		
4																										ſ
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PROJECT NO: HWY: COL											COUNTY:							-				-				
FILE	FILE NAME : C:\Users\PROJECTS\tr_stdplate\M48A.DGN											PLOT DATE : 09-MAR-2011 10:29						PLOT BY : msc_j9h PLOT NAME :					AME :			

NOTES

- Type F Reflective - referer d Specification for HIGHWAY ONSTRUCTION latest edition.	ICE
)range ck - B	
square or rounded when base od but borders shall be round base material is metal, the ders shall be rounded.	led
	_
STANDARD S	IGN
<u>Z sq. fr.</u> M4 - 8 A	
3.0 WISCONSIN DEPT OF TRANS	PORTATION
5.0 AFFROVED Matther R	Kauch
	gineer 0 M4-8A.2
SHEET NO:	<u> </u>
PLOT SCALE : 3.972696:1.000000 WISDOT/C	ADDS SHEET 42



SIZE

NOTES



FILE NAME . C.\CAEfiles\Projects\tr_stdplate\M51 DGN

PLOT DATE . 01-DEC-2015 18.07

PLOT BY . \$\$ DIOTUSER \$\$ PLOT NAME :

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NOTES
1. Signs are Type II - Type H reflective except as shown
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.
            M5-1 and M5-2
                             Background - White
                    Message - Black
  MB5-1 and MB5-2 Background - Blue
                              Message - White
  MK5-1 and MK5-2 Background - Green
                             Message - White
  MM5-1 and MM5-2 Background - White
                    Message - Green
  MN5-1 and MN5-2 Background - Brown
                             Message - White
  M05-1 and M05-2 Background - Orange - Type F Reflective
                    Message - Black
  MP5-1 and MP5-2 Background - White - Type H Reflective
                    Message - Blue
  MR5-1 and MR5-2 Background - Brown
                             Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.
```

	Aree	STANDARD SIGN	
Z	sq. ft.	M5-1 & M5-2	
	3.06	WISCONSIN DEPT OF TRANSPORTATION	
	6.25	APPROVED Matthe P. P.	
	C 05	T'un March Rallich	-
	6.25	<i>for</i> State Traffic Engineer	
	6.25	DATE 10/15/15 PLATE NO. M5-1.13	_
		SHEET NO:	Ε



FILE NAME · C·\CAEfiles\Projects\tr_stdplate\M61_DCN

7

PINT DATE . 01-DEC-2015 17.57 PINT RY . \$\$ 010

PLOT BY . \$\$ DIOTUSER \$\$ PLOT NAME :

e II - Type H except as Shown - See note 4 See note 4 pe square or rounded when base ywood but borders shall be rounded	
- See note 4 See note 4 De square or rounded when base wood but borders shall be rounded	
be square or rounded when base wood but borders shall be rounded	
n base material is metal, the porders shall be rounded.	
2 Background – White Message – Black	
-2 Background - Blue Message - White	
-2 Background - Green Message - White	
-2 Background - White Message - Green	
5-2 Background - Brown Message - White	
5-2 Background – Orange – Type F Reflective Message – Black)
-2 Background - White Message - Blue	
5–2 Background – Brown Message – Yellow	

Ā	
Ñ	
¥	
1	

Z	Årea sq. ft.	ST/ Me	ANDAF 5-1 8 SEF	RD SIGN & M6-2 RIES	N	
	3.06	WISCONSIN	DEPT OF	TRANSPORT	ATION	
	6.25	APPROVED	Matthe	, P P		1
	6.25		For State	Traffic Engineer	ww	ሥ
	6.25	DATE 10/15.	/15	PLATE NO	16-1.1	5
			SHEET	NO:		Ε



FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R11.DGN

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

7

NOTES

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

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



PLOT DATE : 28-MAY-2010 08:32

NOTES

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

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

	4700	
Z	sq. ft.	
	3.0	STANDARD SIGN
	5.0	R2 - 1
	7.5	WISCONSIN DEPT OF TRANSPORTATION
	12.0	APPROVED Matthew R Rauch
	12.0	For State Traffic Engineer
	20.0	DATE 5/26/10 PLATE NO. R2-1.13
		SHEET NO: E

WISDOT/CADDS SHEET 42



FILE NAME : C:\CAEfiles\Projects\tr_stdplate\R113.DGN

PLOT DATE : 15-MAR-2017 15:04

PLOT BY : \$\$...plotuser...\$\$ PLOT NAME :

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 to nearest quarter mile and optically adjust spacing to achieve proper balance.

\bigwedge		7
\square		
. ⁻ .5 2.5	STANDARD SIGN R11-3	
2.5	WISCONSIN DEPT OF TRANSPORTATION APPROVED Matther R Rauch For state Traffic Engineer DATE 3/15/17 PLATE NO. R11-3.8	
PLOT SCALE : 6.9078	SHEET NO: E	
	WISDUI/CADDS SHEET 42	

NOTES

- 2. Color:

Background - White Message - Black

- 3. Message Series C



R11-4

SIZE	Α	В	С	D	E	F	G	н	I	J	к	L	м	N	0	P	0	R	S	Т	U	v	W	X	Y
1																									
2S	60	30	1 3/8	1/2	5%	6	5	4	2 1/2	16 1/8		1/8	23 3/8	3 1/4	3	16 3⁄4	5 1⁄4	2 1/4	24 1/4						
2M	60	30	1 3/8	1/2	5⁄8	6	5	4	2 1/2	16 1/8		1/8	23 3/8	3 1/4	3	16 3⁄4	5 1/4	2 1/4	24 1/4						
3																									
4																									
5																									
PRO	JECT	NO:					Н	WY:	COUNTY:						DUNTY:										
FILE N	ILE NAME : C:\Users\PROJECTS\tr_stdplate\R114.DGN										PLOT DATE: 01-APR-2011 14:11 PLOT BY : msc i9h							scj9h		PLOT NA	AME :				

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

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

	1	Area	
STANDARD SIGN		sq. ft.	Z
R11 - 4		12.5	
WISCONSIN DEPT OF TRANSPORTATION	W	12.5	
APPROVED Matther & Rauch	APPR		
DATE 4/1/11 PLATE NO. R11-4.3	DAT		
SHEET NO: E			
39:1.000000 WISDOT/CADDS SHEET 4	OT SCALE : 9.931739:1.	PLC	





NOTES

- 1. All Signs Type II -WIS DOT Standard and STRUCTURE CON
- 2. Color:
 - Background YEL Arrow & Border
 - Stop Symbol WHI





SIZE	Α	В	С	D	E	F	G	н	I	J	к	L	м	N	0	P	0	R	S	Т	U	v	W	X	Y	Ι
1	30		1 3/8	1/2	5%	6 1/4	11 1/4	2 1/8	15 3⁄4	1/2	1/2	16	8	1 1/4	5											I
2S	36		1 5/8	5⁄8	3⁄4	7 1/2	13 1/2	3 1/2	19	5⁄8	5⁄8	19 1⁄4	9 ¾	1 5/8	6											
2M	36		1 5/8	5⁄8	3⁄4	7 ½	13 1/2	3 1/2	19	5⁄8	5⁄8	19 1⁄4	9 3/4	1 5/8	6											I
3	36		1 5/8	5⁄8	3⁄4	7 1/2	13 1/2	3 1/2	19	5⁄8	5⁄8	19 1⁄4	9 ¾	1 5/8	6											I
4	48		2 1/4	3⁄4	1	10	17 7/8	4 1/2	25 1⁄8	∛₄	7∕8	25 5/8	13	2	8											T
5	48		2 1/4	3⁄4	1	10	17 1/8	4 1/2	25 1⁄8	∛₄	7∕8	25 5/8	13	2	8											
PRO	JECT	NO:																								
FILE N	ILE NAME : C:\Users\PROJECTS\tr_stdplate\W31.DGN														PLOT DA	TE : 07-	JUN-2010	12:59	PLO	T BY : d.	tjph.					

|7

Type F Reflective - reference Specification for HIGHWAY NSTRUCTION latest edition.	
LLOW - BLACK ITE BORDER ON RED BACKGROUND	
T	
G	
⊻	7
Z Areo	
6.25 STANDARD SIGN	
9.0 W3-1	
9.0 WISCONSIN DEPT OF TRANSPORTATION	-
9.0 APPROVED M LLI D D	-
16.0 / latther & Rauch	
16.0 DATE 6/7/10 PLATE NO. W3-1.12	
SHEET NO:	
l l	_



- 2. Color: *

NOTES 1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. 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 7 **|**←V→ ARROW DETAIL STANDARD SIGN Z Areo sq. ft. W3-5 5⁄8 9.0 5⁄8 WISCONSIN DEPT OF TRANSPORTATION 9.0

9.0

16.0

16.0

APPROVED

DATE <u>5/29/12</u>

Matthe

for State Traffic Engineer

SHEET NO:



SIZE	Α	В	С	D	E	F	G	н	I	J	к	L	м	N	0	Р	0	R	S	Т	U	v	W	X	Y	Z
1																										
2S	36		1 5/8	5⁄8	3⁄4	14 1/2	9 1/2	11 1/2	5%	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 ¾	1 5/8
2M	36		1 5/8	5⁄8	3⁄4	14 1/2	9 ½	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
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
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
5	48		2 1/4	3⁄4	1	19 1⁄4	10 ¾	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
PRO	JECT	NO:																								
FILE N	AME : C:	\CAEFile	es\Project	·s\tr_std	plate\W3	5.DGN							-			PLOT DA	ATE : 29-	MAY-2012	10:52	PLO	T BY : m:	scsja				

WISDOT/CADDS SHEET 42

Ε

PLATE NO. <u>W3-5.5</u>



FILE NAME : C:\Users\PROJECTS\tr_stdplate\W202.DGN

PLOT DATE : 18-MAR-2011 10:00

PLOT NAME :

PLOT BY : mscj9h

NOTES

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

Message – Black

 Message Series - See note 5
 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.
 Line 1 is Series D. Line 2 is Series D for AHEAD and Series C for all other distances.

7	Area	l										
۷	sq. ft.											
	9.0		>	IANDA	RD SIGN							
	16.0		W20	-2A.B.	.C.D.F &	G						
	16.0											
	16.0		WISCONSIN DEPT OF TRANSPORTATION									
	16.0		APPROVED	Matt	R R Rau	L						
	10.0		DATE <u>3/18/11</u> PLATE NO. W20-2.6									
	16.0											
						_						
				SHEET	NO:	E						
	PLO	DT SCALE : 9.93173) wisc	OT/CADDS SHEE	T 42							



FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN

7

PLOT DATE : 18-MAR-2011 12:08

NOTES

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color: Background - Orange Message - Black
- 3. Message Series 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 and 2 are Series D. Line 3 is Series D for AHEAD and Series C for all other distances.

	Z	Area sq. ft.]		
4	1 3⁄4	9.0		<u>ر</u>	
,	2 3/8	16.0		5	
3	2 3/8	16.0		W20-	-3A, B, C, D, F & G
5	2 3/8	16.0		W/SCO	ISIN DEPT OF TRANSPORTATION
3	2 3/8	16.0		APPROVED	Matther R Rauch
;	2 3/8	16.0]	DATE <u>3/1</u>	For State Traffic Engineer B/11 PLATE NO. <u>W20-3.7</u>
				•	SHEET NO: E
		PLOT S	SCALE : 9.93173	WISDOT/CADDS SHEET 42	

	AREA	(SF)	INCR. V	OL (CY)	CUMULATI		
STATION	СИТ	FILL	СИТ	FILL	CUT 1.00	EXP. FILL 1.30	MASS ORDINATE
9+15.000	10.43	0.00	0.00	0.00	0.00	0.00	0.00
9+50.000	13.15	0.00	15.28	0.00	15.28	0.00	15.28
10+00.000	195.18	0.00	192.89	0.00	208.18	0.00	208.18
10+50.000	10.90	0.00	190.82	0.00	398.99	0.00	398.99
11+00.000	12.47	1.15	21.64	1.06	420.64	1.38	419.26
11+50.000	10.20	3.08	20.99	3.92	441.63	6.47	435.16
12+00.000	9.44	2.95	18.18	5.58	459.81	13.73	446.08
12+50.000	12.99	1.55	20.76	4.16	480.57	19.14	461.43
12+64.000	19.08	1.14	8.31	0.70	488.89	20.05	468.84
12+91.000	44.47	2.22	31.78	1.68	520.67	22.23	498.44
13+00.000	32.29	2.72	12.79	0.82	533.46	23.30	510.16
13+50.000	7.31	9.52	36.67	11.34	570.13	38.04	532.09
14+00.000	6.21	14.39	12.52	22.14	582.65	66.82	515.83
14+50.000	7.22	9.07	12.44	21.72	595.09	95.06	500.03
14+75.000	28.52	7.27	16.55	7.56	611.64	104.88	506.76
15+00.000	8.12	7.49	16.97	6.83	628.61	113.76	514.85
15+50.000	13.76	6.66	20.26	13.10	648.87	130.79	518.08
15+76.000	38.36	9.78	25.09	7.92	673.96	141.09	532.87
16+00.000	6.83	18.98	20.09	12.78	694.05	157.70	536.35
16+50.000	5.77	34.38	11.67	49.41	705.72	221.94	483.78
16+87.500	6.94	68.56	8.83	71.48	714.54	314.86	399.68
17+00.000	7.31	49.28	3.30	27.28	717.84	350.32	367.52
17+50.000	7.31	24.09	13.53	67.93	731.37	438.63	292.74
18+00.000	8.94	10.63	15.05	32.15	746.42	480.43	265.99
18+50.000	11.62	7.58	19.04	16.86	765.46	502.35	263.11
19+00.000	25.73	1.23	34.59	8.16	800.06	512.95	287.11
19+12.000	30.53	0.85	12.50	0.46	812.56	513.55	299.01
19+50.000	31.39	1.80	43.57	1.87	856.13	515.98	340.15
20+00.000	7.11	7.60	35.65	8.71	891.78	527.31	364.47
20+50.000	6.15	10.87	12.28	17.10	904.07	549.54	354.53
21+00.000	6.70	5.02	11.90	14.71	915.97	568.66	347.31
21+25.000	29.67	3.17	16.84	3.79	932.81	573.59	359.22
21+50.000	8.51	3.55	17.67	3.11	950.48	577.63	372.85
22+00.000	34.83	8.62	40.13	11.27	990.61	592.28	398.33
22+11.000	33.74	8.72	13.97	3.53	1004.58	596.87	407.71
22+50.000	8.94	7.37	30.83	11.62	1035.41	611.98	423.44
23+00 000	12.76	1.88	20.10	8.57	1055.50	623.12	432.38

EARTHWORK DATA - CTH GG												
	AREA	(SF)	INCR. V	OL (CY)	CUMULATI							
STATION	СИТ	FILL	CUT	FILL	CUT 1.00	EXP. FILL 1.30	MASS ORDINATE					
					-							
23+11.000	29.14	2.02	8.54	0.80	1064.04	624.16	439.88					
23+50.000	7.31	6.08	26.33	5.85	1090.37	631.76	458.61					
24+00.000	6.25	11.12	12.56	15.92	1102.93	652.46	450.47					
24+50.000	23.41	1.18	27.46	11.39	1130.39	667.26	463.13					
24+79.000	22.21	2.36	24.50	1.90	1154.89	669.73	485.16					
25+00.000	8.88	3.59	12.09	2.31	1166.98	672.74	494.24					
25+50.000	10.07	4.16	17.55	7.18	1184.52	682.07	502.45					
26+00.000	29.37	4.11	36.52	7.66	1221.04	692.03	529.01					
26+11.000	53.42	4.01	16.87	1.65	1237.91	694.17	543.74					
26+50.000	9.20	13.68	45.23	12.77	1283.13	710.78	572.36					
27+00.000	7.39	10.48	15.36	22.37	1298.49	739.86	558.63					
27+50.000	7.11	12.08	13.43	20.89	1311.92	767.01	544.91					
28+00.000	9.35	2.36	15.25	13.37	1327.16	784.39	542.77					
28+25.000	10.50	0.88	9.19	1.50	1336.35	786.34	550.01					
28+65.000	66.54	0.15	57.07	0.76	1393.42	787.33	606.09					
29+00.000	13.17	0.77	51.66	0.60	1445.09	788.11	656.98					
29+26.000	42.55	0.81	26.83	0.76	1471.91	789.10	682.81					
29+50.000	13.08	0.95	24.72	0.78	1496.64	790.11	706.53					
30+00.000	10.21	10.35	21.57	10.46	1518.20	803.71	714.49					
30+08.000	10.42	22.91	3.06	4.93	1521.26	810.12	711.14					
30+33.000	11.20	26.72	10.01	22.98	1531.27	840.00	691.28					
30+58.000	11.61	33.14	10.56	27.71	1541.83	876.02	665.81					
31+00.000	10.12	25.27	16.90	45.43	1558.73	935.08	623.65					
31+50.000	9.04	43.41	17.74	63.60	1576.46	1017.76	558.70					
32+00.000	8.92	31.63	16.63	69.49	1593.10	1108.09	485.01					
32+50.000	8.51	44.94	16.14	70.90	1609.24	1200.26	408.98					
33+00.000	9.74	14.38	16.89	54.93	1626.13	1271.67	354.46					
33+50.000	52.49	4.77	57.62	17.74	1683.74	1294.74	389.01					
34+00.000	21.98	4.55	68.95	8.63	1752.69	1305.95	446.74					
34+50.000	<u>2</u> 0.10	3.09	38.96	7.07	1791.66	1315.15	476.52					
35+00.000	21.14	1.60	38.19	4.34	1829.84	1320.79	509.05					
35+50.000	25.57	0.64	43.25	2.07	1873.09	1323.48	549.61					
35+67.000	67.55	0.30	29.32	0.30	1902.41	1323.87	578.54					
36+00.000	41.93	2.58	66.91	1.76	1969.31	1326.16	643.15					
36+21.000	<u>9</u> 9.92	2.08	55.16	1.81	2024.48	1328.51	695.97					
36+50.000	19.61	2.58	64.19	2.50	2088.67	1331.76	756.91					
37+00.000	31.80	5.64	47.60	7.62	2136.27	1341.67	794.60					

 PROJECT NO: 8940-00-15
 HWY: CTH GG
 COUNTY: ST CROIX
 EARTHWORK DATA

SHEET

Е
EARTHWORK DATA - CTH GG											
	AREA (SF)		INCR. VOL (CY)		CUMULATIVE VOL (CY)						
STATION	CUT	FILL	СИТ	FILL	CUT 1.00	EXP. FILL 1.30	MASS ORDINATE				
27,50,000	22.42	2.45	F1 14	0.41	2107 42	1252.60	024.02				
37+50.000	23.43	3.45	51.14	8.41 12.11	2187.42	1352.60	834.82				
38+00.000	10.53	10.71	31.45	13.11	2218.87	1369.64	849.23				
38+50.000	9.18	6.18	18.25	15.64	2237.12	1389.97	847.15				
39+00.000	11.85	2.75	19.47	8.27	2256.59	1400.72	855.87				
39+50.000	27.78	0.77	36.70	3.26	2293.29	1404.96	888.33				
40+00.000	8.22	12.06	33.33	11.88	2326.62	1420.41	906.21				
40+50.000	5.30	16.85	12.51	26.77	2339.13	1455.21	883.92				
41+00.000	4.00	19.57	8.63	33.80	2347.76	1499.15	848.61				
41+50.000	4.76	18.24	8.11	35.23	2355.88	1544.95	810.93				
42+00.000	6.11	13.53	10.06	29.60	2365.94	1583.43	782.51				
42+50.000	6.46	10.78	11.65	22.59	2377.59	1612.79	764.80				
43+00.000	6.89	8.15	12.38	17.50	2389.97	1635.54	754.43				
43+50.000	6.54	7.73	12.47	14.64	2402.44	1654.58	747.87				
44+00.000	5.61	9.53	11.27	15.94	2413.71	1675.30	738.41				
44+50.000	4.58	12.80	9.44	20.61	2423.15	1702.09	721.06				
45+00.000	11.20	27.29	14.74	37.29	2437.90	1750.57	687.33				
45+25.000	53.30	9.64	29.86	17.10	2467.76	1772.80	694.96				
45+50.000	14.58	23.32	31.43	15.26	2499.18	1792.64	706.54				
46+00.000	5.12	9.31	18.42	30.34	2517.61	1832.08	685.53				
46+50.000	5.29	9.08	9.65	17.01	2527.25	1854.19	673.06				
47+00.000	6.11	7.73	10.54	15.61	2537.80	1874.48	663.32				
47+50.000	28.61	5.09	32.48	11.86	2570.28	1889.90	680.38				
48+00.000	5.74	8.55	32.15	12.59	2602.43	1906.27	696.16				
48+50.000	4.47	9.07	9.46	16.30	2611.89	1927.46	684.43				
49+00.000	3.40	12.39	7.29	19.86	2619.18	1953.28	665.90				
49+50.000	4.64	9.56	7.45	20.32	2626.63	1979.69	646.94				
50+00.000	6.65	5.27	10.46	13.74	2637.08	1997.55	639.53				
50+28.000	49.35	1.20	29.04	3.35	2666.12	2001.91	664.21				
50+50.000	14.01	0.93	25.81	0.87	2691.93	2003.04	688.89				
51+00.000	7.18	21.66	19.63	20.91	2711.56	2030.22	681.34				
51+50.000	6.45	30.48	12.62	48.28	2724.18	2092.99	631.19				
52+00.000	5.03	55.78	10.63	79.87	2734.81	2196.82	537.99				
52+50,000	7.97	31.77	12.04	81.07	2746.85	2302.21	444.64				
53+00 000	8.02	65 59	14.80	90.15	2761 65	2419 40	342.25				
53+50 000	6 10	56 88	13 07	113 /0	2774 72	2566 82	207 90				
E4:00.000	6 11	22.60	11 20	\$7 Q2	2796.02	2500.02	111 30				

9

EARTHWORK DATA - CTH GG												
	AREA (SF)		INCR. VOL (CY)		CUMULATIVE VOL (CY)							
STATION	CUT	FILL	СИТ	FILL	CUT 1.00	EXP. FILL 1.30	MASS ORDINATE					
54+37.000	10.67	6.32	11.50	26.73	2797.52	2709.38	88.14					
54+50.000	12.46	4.68	5.57	2.65	2803.09	2712.83	90.26					
55+00.000	8.17	16.46	19.10	19.57	2822.19	2738.27	83.92					
55+50.000	6.72	17.10	13.78	31.07	2835.98	2778.66	57.32					
56+00.000	6.95	17.76	12.66	32.27	2848.64	2820.61	28.03					
56+50.000	7.43	16.15	13.32	31.40	2861.95	2861.43	0.52					
57+00.000	8.82	8.63	15.04	22.95	2877.00	2891.27	-14.27					
57+50.000	8.30	5.26	15.85	12.86	2892.85	2907.98	-15.13					
58+00.000	7.53	17.30	14.66	20.89	2907.51	2935.14	-27.63					
58+50.000	6.89	20.74	13.35	35.23	2920.87	2980.94	-60.07					
59+00.000	6.93	15.35	12.79	33.42	2933.66	3024.39	-90.73					
59+50.000	7.10	12.33	12.99	25.63	2946.65	3057.70	-111.05					
60+00.000	6.64	29.62	12.72	38.84	2959.37	3108.20	-148.83					
60+31.000	6.52	104.35	7.55	76.91	2966.92	3208.18	-241.26					
60+44.000	6.38	108.72	3.11	51.30	2970.03	3274.87	-304.84					
60+50.000	6.34	88.98	1.41	21.97	2971.44	3303.43	-331.99					
61+00.000	5.85	35.23	11.29	115.02	2982.73	3452.96	-470.23					
61+50.000	6.45	21.41	11.38	52.44	2994.11	3521.13	-527.02					
62+00.000	7.27	5.81	12.70	25.19	3006.81	3553.88	-547.07					
62+50.000	6.54	5.97	12.79	10.90	3019.59	3568.05	-548.46					
63+00.000	6.89	13.69	12.43	18.21	3032.02	3591.72	-559.70					
63+50.000	7.72	18.20	13.52	29.53	3045.54	3630.11	-584.57					
63+78.000	28.62	14.01	18.84	16.70	3064.39	3651.82	-587.43					
64+00.000	9.44	12.37	15.51	10.75	3079.89	3665.79	-585.90					
64+50.000	10.88	13.00	18.81	23.49	3098.70	3696.33	-597.63					
65+00.000	55.21	4.79	61.19	16.47	3159.90	3717.74	-557.84					
65+50.000	14.11	5.70	64.19	9.71	3224.09	3730.36	-506.27					
66+00.000	11.13	0.18	23.37	5.45	3247.46	3737.45	-489.99					

 PROJECT NO: 8940-00-15
 HWY: CTH GG
 COUNTY: ST CROIX
 EARTHWORK DATA



FILE NAME : V:\TRANS-EC\410707 ST CROIX GG\ROADWAY\C3D\DESIGN\CORRIDORS\CTHGG_CORRIDOR.DWG LAYOUT NAME - 0902 - (1)



FILE NAME : V:\TRANS-EC\410707 ST CROIX GG\ROADWAY\C3D\DESIGN\CORRIDORS\CTHGG_CORRIDOR.DWG LAYOUT NAME - 0902 - (2)





FILE NAME : V:\TRANS-EC\410707 ST CROIX GG\ROADWAY\C3D\DESIGN\CORRIDORS\CTHGG_CORRIDOR.DWG LAYOUT NAME - 0902 - (4)





FILE NAME : V:\TRANS-EC\410707 ST CROIX GG\ROADWAY\C3D\DESIGN\CORRIDORS\CTHGG_CORRIDOR.DWG LAYOUT NAME - 0902 - (6)









FILE NAME : V:\TRANS-EC\410707 ST CROIX GG\ROADWAY\C3D\DESIGN\CORRIDORS\CTHGG_CORRIDOR.DWG LAYOUT NAME - 0902 - (10)





FILE NAME : V:\TRANS-EC\410707 ST CROIX GG\ROADWAY\C3D\DESIGN\CORRIDORS\CTHGG_CORRIDOR.DWG LAYOUT NAME - 0902 - (12)





FILE NAME : V:\TRANS-EC\410707 ST CROIX GG\ROADWAY\C3D\DESIGN\CORRIDORS\CTHGG_CORRIDOR.DWG LAYOUT NAME - 0902 - (14)















FILE NAME : V:\TRANS-EC\410707 ST CROIX GG\ROADWAY\C3D\DESIGN\CORRIDORS\CTHGG_CORRIDOR.DWG LAYOUT NAME - 0902 - (21)



FILE NAME : V:\TRANS-EC\410707 ST CROIX GG\ROADWAY\C3D\DESIGN\CORRIDORS\CTHGG_CORRIDOR.DWG LAYOUT NAME - 0902 - (22)



FILE NAME : V:\TRANS-EC\410707 ST CROIX GG\ROADWAY\C3D\DESIGN\CORRIDORS\CTHGG_CORRIDOR.DWG LAYOUT NAME - 0902 - (23)

















FILE NAME : V:\TRANS-EC\410707 ST CROIX GG\ROADWAY\C3D\DESIGN\CORRIDORS\CTHGG_CORRIDOR.DWG LAYOUT NAME - 0902 - (31)





Notes



Wisconsin Department of Transportation

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