

		FEDERAL PROJECT					
	STATE PROJECT	PROJECT	CONTRACT				
	9007-03-71	WISC 2017517	1				
	egerstrom : Matt Ternes R: April Glime R: Lunda Col 0/18 10/17/18	s nstruction Co.					
		ACCEPTED FOR COUNTY OF OCONTO 4/27/17 Patrick 14	Carlan e of Official)				
<u>T</u> 28 34	RUCTION O	ORIGINAL PLAN PREPARED BY BECHER HOPPE 330 Fourth Street • PO Box 8000 Wousou, W • \$4402-8000 715,845,8008 becherhoppe.com					
		MICHAEL V. KOWAL E-36885 WAUSAU,					
		4-26-2017 (Date) (Signatu STATE OF WISCONS	ire) N				
_		DEPARTMENT OF TRANSPO PREPARED BY Surveyor <u>BECHE</u> Designer <u>BECHE</u> Management Consultant <u>JT ENGIN</u> APPROVED FOR THE DEPARTMENT	RTATION R HOPPE R HOPPE IEERING, INC.				
	WISCONSIN COUNTY U.S. SURVEY FEET. AND GRID DISTANCES. ES.	DATE: 7/20/17/ Management Consulto	int Signature)				

GENERAL NOTES

BEARINGS SHOWN ON THE PLAN ARE TRUE BEARINGS TO THE NEAREST SECOND.

COORDINATES AND BEARINGS ON THIS PLAN ARE ORIENTED TO THE OCONTO COUNTY COORDINATE SYSTEM. ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM (NAVD) 1988.

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

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

SILT FENCE IS TO BE PLACED AS SHOWN ON THE PLAN, OR AS DIRECTED BY THE ENGINEER. SILT FENCE IS TO BE PLACED PRIOR TO CONSTRUCTION.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED AND COVERED WITH EROSION MAT.

WETLANDS EXIST IN THE PROJECT AREA AND THE CONTRACTOR SHALL NOT DISTURB OUTSIDE OF THE SLOPE INTERCEPTS IN THESE AREAS.

4-INCH ASPHALTIC SURFACE SHALL BE CONSTRUCTED IN TWO LIFTS WITH AN 1 3/4-INCH UPPER LAYER AND A 2 1/4-INCH LOWER LAYER. ASPHALTIC SURFACE SHALL USE 12.5-MM NOMINAL AGGREGATE SIZE FOR THE UPPER LAYER AND 19.0-MM NOMINAL AGGREGATE SIZE FOR THE LOWER LAYER.

THERE ARE NO KNOWN UTILITY FACILITIES WITHIN THE PROJECT AREA.

ABBREVIATIONS

AC CHIS & COR CWT	ACRES CHISELED CENTERLINE CORNER COUNT
ELEV	ELEVATION
E.O.P.	EDGE OF PAVEMENT
H	HOUSE
IP	IRON PIPE
LB	LINEAR FOOT
LS	LUMP SUM
LT	LEFT
MAX	MAXIMUM
MON	MONUMENT
NOR	NORMAL
OAL	OVERALL LENGTH
PC	POINT OF CURVATURE
PU PI	POINT OF INTERSECTION
PK	PARKER-KALON
PL	PROPERTY LINE
PLE	PERMANENT LIMITED EASEMENT
PP PT	POWER POLE
R	RADIUS
REQ'D	REQUIRED
RT	RIGHT
K/W SE	RIGHT-OF-WAY
SHLD	SHOULDER
STA	STATION
SY	SQUARE YARD
TVD	TYPICAL
VAR	VARIES

SECTION 2 ORDER

GENERAL NOTES PROJECT OVERVIEW TYPICAL SECTIONS CONSTRUCTION DETAILS EROSION CONTROL CONTROL POINT DATA

RUNOFF COEFFICIENT TABLE

	HYDRO						JGIC SOIL GROUP					
A			В		С		D					
	SLOPE	RANGE	(PERCENT)	SLOP	SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)		(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	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:											•	
ASPHALT						.7095						
CONCRETE .8095												
BRICK						.7080						
DRIVES, WALKS .7585												
ROOFS .7595												
GRAVEL ROADS, SHOULDERS .4060												

TOTAL PROJECT AREA = 1.33 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = ______84___ACRES

DNR CONTACT

WISCONSIN DEPARTMENT OF NATURAL RESOURCES 2984 SHAWANO AVE GREEN BAY, WI 54313 JAMES DOPERALSKI PHONE: (920) 412-0165 James.Doperalski@wisconsin.gov

PROJECT NO:9007-03-71	HWY:CTH Y	COUNTY: OCONTO	GENERAL NOTES

2



** DENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBERS

SHEET

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PLOT DATE : 3/29/2017 3:27 PM

PLOT BY : DANIEL J. GERLING PLOT NAME : _____



EXISTING	TYPICAL	SECTION -	- CTH	Y
ST	TATION 306+25.97	′ – STATION 312+00		

PROJECT NO:9007-03-71	HWY:CTH Y	COUNTY: OCONTO	TYPICAL SECTIONS
FUE NAME - D-1 2015 2015 071 WICDOT NE OTH Y DDIDOE OCONTO	CTV I DAY 000703000 CHEETCEL AND 000301 TO DWG	DLAT DATE - 7 70 0017 0-00	

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PROJECT NO:9007-03-71	HWY:CTH Y	COUNTY: OCONTO	TYPICAL SECTIONS

2

PLOT BY : DANIEL J. GERLING PLOT NAME : PLOT DATE : 4/27/2017 2:36 PM



PROJECT NO:9007-03-71	HWY:CTH Y	COUNTY: OCONTO	CONSTRUCTION DETAILS

2

PLOT DATE : 3/30/2017 2:23 PM PLOT BY : DANIEL J. GERLING PLOT NAME :

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PLOT DATE : 3/30/2017 3:56 PM PLOT BY : DANIEL J. GERLING PLOT NAME :











PROJECT NO:9007-03-71	HWY:CTH Y	COUNTY: OCONTO	CONTROL POINT DATA
FILE NAME : P:\2015\2015.031 - WISDOT NE CTH Y BRIDGE OCONTO LAYOUT NAME - ****	CTY LPA\90070300\SHEETSPLAN\027401-CP.DWG	PLOT DATE : 3/30/2017 2:27	PM PLOT BY : DANIEL J. GERLING PLOT NAME :

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SHEET

					Estimate Of	Quantities
					9007-03-71	
Line	Item	Item Description	Unit	Total	Qty	
0002	201.0105	Clearing	STA	4.000	4.000	
0004	201.0205	Grubbing	STA	4.000	4.000	
0006	205.0100	Excavation Common **P**	CY	365.000	365.000	
8000	208.0100	Borrow **P**	CY	382.000	382.000	
0010	213.0100	Finishing Roadway (project) 01. 9007-03-71	EACH	1.000	1.000	
0012	305.0110	Base Aggregate Dense 3/4-Inch	TON	141.000	141.000	
0014	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	885.000	885.000	
0016	450.4000	HMA Cold Weather Paving	TON	245.000	245.000	
0018	455.0605	Tack Coat	GAL	76.000	76.000	
0020	465.0105	Asphaltic Surface	TON	245.000	245.000	
0022	502.3200	Protective Surface Treatment	SY	205.000	205.000	
0024	509.0301	Preparation Decks Type 1	SY	60.000	60.000	
0026	509.0302	Preparation Decks Type 2	SY	45.000	45.000	
0028	509.0500	Cleaning Decks	SY	205.000	205.000	
0030	509.1500	Concrete Surface Repair	SF	10.000	10.000	
0032	509.2000	Full-Depth Deck Repair	SY	1.000	1.000	
0034	509.2500	Concrete Masonry Overlay Decks	CY	12.000	12.000	
0036	517.1800.S	Structure Repainting Recycled Abrasive (structure) 01. B-42-17	LS	1.000	1.000	
0038	517.4500.S	Negative Pressure Containment and Collection of Waste Materials (structure) 01. B-42-17	LS	1.000	1.000	
0040	517.6001.S	Portable Decontamination Facility	EACH	1.000	1.000	
0042	614.0920	Salvaged Rail	LF	381.000	381.000	
0044	614.2300	MGS Guardrail 3	LF	300.000	300.000	
0046	614.2500	MGS Thrie Beam Transition	LF	156.000	156.000	
0048	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000	
0050	619.1000	Mobilization	EACH	1.000	1.000	
0052	624.0100	Water	MGAL	21.000	21.000	
0054	625.0100	Topsoil **P**	SY	1,275.000	1,275.000	
0056	628.1504	Silt Fence	LF	985.000	985.000	
0058	628.1520	Silt Fence Maintenance	LF	1,478.000	1,478.000	
0060	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000	
0062	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0064	628.2008	Erosion Mat Urban Class I Type B **P**	SY	1,715.000	1,715.000	
0066	628.6005	Turbidity Barriers	SY	70.000	70.000	
0068	628.7504	Temporary Ditch Checks	LF	30.000	30.000	
0070	628.7570	Rock Bags	EACH	70.000	70.000	
0072	629.0210	Fertilizer Type B	CWT	1.000	1.000	
0074	630.0120	Seeding Mixture No. 20	LB	47.000	47.000	
0076	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000	

3

08/22/2017 15:48:33 3 Page 1

				E	Estimate Of	Quantities
					9007-03-71	
Line	Item	Item Description	Unit	Total	Qty	
0078	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0080	638.2602	Removing Signs Type II	EACH	4.000	4.000	
0082	638.3000	Removing Small Sign Supports	EACH	4.000	4.000	
0084	642.5001	Field Office Type B	EACH	1.000	1.000	
0086	643.0100	Traffic Control (project) 01. 9007-03-71	EACH	1.000	1.000	
8800	643.0420	Traffic Control Barricades Type III	DAY	828.000	828.000	
0090	643.0705	Traffic Control Warning Lights Type A	DAY	1,288.000	1,288.000	
0092	643.0900	Traffic Control Signs	DAY	648.000	648.000	
0094	646.0106	Pavement Marking Epoxy 4-Inch	LF	1,635.000	1,635.000	
0096	647.0105	Pavement Marking Railroad Crossings Paint	EACH	2.000	2.000	
0098	650.4500	Construction Staking Subgrade	LF	516.000	516.000	
0100	650.5000	Construction Staking Base	LF	516.000	516.000	
0102	650.9910	Construction Staking Supplemental Control (project) 01. 9007-03-71	LS	1.000	1.000	
0104	650.9920	Construction Staking Slope Stakes	LF	516.000	516.000	
0106	690.0150	Sawing Asphalt	LF	514.000	514.000	
0108	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	150.000	150.000	
0110	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000	
0112	SPV.0060	Special 01. Cleaning and Painting Piling	EACH	28.000	28.000	

3

Bage 2

CLEARING & GRUBBING								
201.0105 201.0205								
_				CLEARING	GRUBBING			
STATION	ТО	STATION	LOCATION	STA	STA			
306+32	-	306+82	RT	1	1			
309+67	-	311+58	LT	3	3			
			TOTALS	4	4			

			EARTHWORK SUMMARY									
				205.	0100	UNUSABLE						
				EXCAVATION	I COMMON (1)	PAVEMENT	AVAILABLE			MASS	208.0100	
				**	P**	MATERIAL	MATERIAL	UNEXPANDED	EXPANDED	ORDINATE	BORROW (8)	
				CUT (2)	EBS (3)	(4)	(5)	FILL	FILL (6)	±(7)	**P**	
DIVISION	STATION	TO	STATION	CY	CY	CY	CY	CY	CY	CY	CY	CO
1	306+25.97	-	308+40.53	196	0	18	178	133	166	12		
	309+19.27	-	312+00	169	0	17	152	437	546	-394		
			TOTALS	365	0	35	330	570	712	-382	382	
	TOTAL EXC	VATI	ON COMMON	3	65							

1) EXCAVATION COMMON IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NO. 205.0100.

2) UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.

3) EBS EXCAVATION TO BE BACKFILLED WITH CUT MATERIAL.

4) UNUSABLE PAVEMENT MATERIAL.

5) AVAILABLE MATERIAL = CUT - UNUSABLE PAVEMENT MATERIAL.

6) EXPANDED FILL = UNEXPANDED FILL * EXPANDED FILL FACTOR. EXPANDED FILL FACTOR = 1.25.

7) MASS ORDINATE = (AVAILABLE MATERIAL) - (EXPANDED FILL). PLUS QUANTITY INDICATES AN EXCESS

OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

8) USE 12 CY OF EXCESS MATERIAL FROM STA 306+25.97 - STA 308+40.53

BASE AGGREGATE DENSE							
				305.0110	305.0120	624.0100	
				3/4-INCH	1 1/4-INCH	WATER	
STATION	TO	STATION	LOCATION	TON	TON	MGAL	COMMENT
306+21	-	308+59	CL	-	420	8	MAINLINE
306+21	-	308+41	RT	31	-	1	SHOULDERS
306+33	-	308+59	LT	33	-	1	SHOULDERS
308+98	-	312+00	CL	-	465	9	MAINLINE
308+98	-	311+25	RT	31	-	1	SHOULDERS
309+18	-	312+00	LT	46	-	1	SHOULDERS
			TOTALS	141	885	21	

ALL ITEMS AND QUANTITIES ON THI
SHEET ARE CATEGORY 0010
UNLESS OTHERWISE NOTED

PROJECT NO: 9007-03-71	HWY: CTH Y	COUNTY: OCONTO	MISCELLANEOUS QUANTITIES	
FUE NAME + DUDATIONE OR - MURDOT NE OTHER DOCTOR OCONTO OTVERA				OT NAME -

MMENTS:

SHEET:	Ε

ASPHALTIC SURFACE							
				450.4000	455.0605	465.0105	
				HMA COLD	TACK COAT	ASPHALTIC	
				WEATHER PAVING		SURFACE	
STATION	TO	STATION	LOCATION	TON	GAL	TON	COMMENT
306+26	-	308+59	CL	120	37	120	MAINLINE
309+00	-	311+80	CL	125	39	125	MAINLINE
			TOTALS	245	76	245	

01	7.20			
STATION	ТО	STATION	LOCATION	EACH
306+75.71	-	307+28.84	RT	1
306+95.00	-	307+48.13	LT	1
310+11.87	-	310+65.00	RT	1
310+31.16	-	310+84.29	LT	1
			TOTAL	4

TOPSOIL, FERTILIZER, & SEED

				625.0100	629.0210	630.0120
				TOPSOIL	FERTILIZER	SEEDING
				P	TYPE B	MIXTURE NO. 20
STATION	TO	STATION	LOCATION	SY	CWT	LB
306+27	-	308+37	RT	235	0.2	9
306+33	-	308+59	LT	180	0.2	8
309+00	-	311+25	RT	270	0.2	10
309+21	-	312+00	LT	590	0.4	20
			TOTALS	1,275	1.0	47

STATION	то	STATION	LOCATION	LF
307+46	-	308+38	RT	92
307+64	-	308+57	LT	93
309+01	-	309+96	RT	95
309+21	-	310+22	LT	101
			TOTAL	381

614.0920 SALVAGED RAIL

4.2300 MGS 0	SUARDRAIL 3
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614.2300 MGS GUARDRAIL 3						
STATION	TO STATION	LOCATION	LF			
307+28.84	- 308+03.84	RT	75			
307+48.13	- 308+23.13	LT	75			
309+36.87	- 310+11.87	RT	75			
309+56.16	- 310+31.16	LT	75			
		TOTAL	300			

				628.1504	628.1520
				SILT FENCE	SILT FENCE
					MAINTENANCE
STATION	ТО	STATION	LOCATION	LF	LF
306+22	-	308+61	LT	250	375
306+24	-	308+40	RT	240	360
308+98	-	311+47	RT	255	383
310+45	-	312+14	LT	190	285
UNDIS	STRIB	UTED		50	75
			TOTALS	985	1,478

614.2500 MGS TH	RIE BEAM TRANSIT	ION	
STATION TO STATION	LOCATION	LF	MOBILIZATIONS EROSION CONTROL & EMERGENCY EROSION CONTR
308+03.84 - 308+43.24	RT	39	628.1905 628.1910
308+23.13 - 308+62.53	LT	39	MOBILIZATIONS MOBILIZATIONS EMERG
308+97.47 - 309+36.87	RT	39	EROSION CONTROL EROSION CONTROL
309+16.76 - 309+56.16	LT	39	LOCATION EACH EACH
	TOTAL	156	PROJECT 9007-03-71 3 2

UNLESS OTHERWISE NOTED			
PROJECT NO: 9007-03-71	HWY: CTH Y	COUNTY: OCONTO	MISCELLANEOUS QUANTITIES

FILE NAME : P:\2015\2015.031 - WISDOT NE CTH Y BRIDGE OCONTO CTY LPA\90070300\SHEETSPLAN\030201-MQ.PPT

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 0010

PLOT DATE : 4/27/2017 3:14 PM

PLOT BY : DANIEL J. GERLING PLOT NAME : ____

SILT FENCE & SILT FENCE MAINTENANCE

SIGNING SCHEDULE										
							634.0612	637.2230	638.2602	638.3000
							POSTS WOOD	SIGNS	REMOVING	REMOVING
							4X6-INCH	TYPE II	SIGNS	SMALL SIGN
					SIZE		X 12-FT	REFLECTIVE F	TYPE II	SUPPORTS
STATION	OFFSET	CODE NO.	DESCRIPTION	IN	Х	IN	EACH	SF	EACH	EACH
308+37	RT	W5-52R	Chevron	12	Х	36	1	3.00	1	1
308+54	LT	W5-52L	Chevron	12	Х	36	1	3.00	1	1
309+03	RT	W5-52L	Chevron	12	Х	36	1	3.00	1	1
309+22	LT	W5-52R	Chevron	12	Х	36	1	3.00	1	1
					тот	ALS	4	12.00	4	4

TRAFFIC CONTROL 643.0100.01 PROJECT 9007-03-71 DURATION LOCATION (DAYS) EACH CTH A / CN RR INTERSECTION PAVEMENT MARKING 1 ---CTH Y (ADVANCED WARNING) 46 ---CTH Y (AT INTERSECTION WITH CTH A) 46 B-42-0017 CLOSURE (S SIDE) 46 ---B-42-0017 CLOSURE (N SIDE) 46 ----CTH Y (AT INTERSECTION WITH BAY RD) 46 CTH Y (ADVANCED WARNING) 46 UNDISTRIBUTED (PROJECT 9007-03-71) 46 1 TOTALS 1

NOTE: ASSUMED 46 CALENDAR DAYS.

				PAVEME	ENT MARKING
				646.0106	647.0105
				EPOXY	RAILROAD
				4-INCH	CROSSINGS P
STATION	TO	STATION	LOCATION	LF	EACH
CTH A	\ / CN	RR INTERSI	ECTION	-	2
306+26	-	311+25	RT	499	-
306+33	-	312+00	LT	567	-
307+30	-	307+72	CL	11	-
307+30	-	307+72	CL	42	-
307+72	-	310+30	CL	516	-
			TOTALS	1.635	2

NOTE: PAVEMENT MARKING RAILROAD CROSSINGS PAINT ARE TO BE IN PLACE ON CTH A PRIOR TO CLOSING CTH Y.

_	02012000				
_	STATION	ТО	STATION	LOCATION	SY
	306+27	-	308+37	RT	335
	306+33	-	308+59	LT	285
	309+00	-	311+25	RT	375
	309+21	-	312+00	LT	720
				TOTAL	1,715

628.6005 1	FURBIDITY	BARRIERS
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STATION	ТО	STATION	LOCATION	SY
309+19	-	310+45	LT	45
UNDI	STRIB	UTED		25
			TOTAL	70

628.7504 TEMPORARY	DITCH CHECKS
	IE

LOCATION	LF
UNDISTRIBUTED	30

_	628.7570 ROCK BAGS									
	STATION	LOCATION	EACH	COMMENT						
=	308+07	RT	10	SILT FENCE RELIEF						
	308+50	LT	10	SILT FENCE RELIEF						
	309+31	RT	10	SILT FENCE RELIEF						
	309+51	LT	10	SILT FENCE RELIEF						
_	UNDIST	RIBUTED	30							
		TOTAL	70							

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

PROJECT NO: 9007-03-71	HWY: CTH Y	COUNTY: OCONTO	MISCELLANEOUS QUANTITIES	5
FILE NAME : P:\2015\2015.031 - WISDOT NE CTH Y BRIDGE OCONTO CTY LPA\90070300\SHEETSPLAN\030201-MQ.PPT		PLOT DATE : 4/27/2017 3:14 PM	PLOT BY : DANIEL J. GERLING	PLOT NAME :

FILE NAME : P:\2015\2015.031 - WISDOT NE CTH Y BRIDGE OCONTO CTY LPA\90070300\SHEETSPLAN\030201-MQ.PPT

PLOT DATE : 4/27/2017 3:14 PM

643.0420		643.0	643.0705		0900
BARRICADES		WARNING	G LIGHTS	SIG	NS
TYPE III		TYP	ΕA		
EACH	DAY	EACH	DAY	EACH	DAY
				4	4
				3	138
2	92	4	184	2	92
7	322	10	460	2	92
7	322	10	460	2	92
2	92	4	184	2	92
				3	138
	828		1,288		648

AINT

COMMENT PROJECT DETOUR

WHITE EDGE LINE WHITE EDGE LINE SB YELLOW C/L (12.5' LINE, 37.5' GAP) NB SOLID YELLOW C/L DOUBLE YELLOW C/L

SHEET:

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	CONSTRUCTION STAKING						
				650.4500	650.5000	650.9910	650.9920
				SUBGRADE	BASE	SUPPLEMENTAL	SLOPE
						CONTROL	STAKES
						9007-03-71	
STATION	ТО	STATION	LOCATION	LF	LF	LS	LF
306+29	-	312+00	LT/RT	516	516		516
PROJECT ID 9007-03-71		3-71			1		
			TOTALS	516	516	1	516

690.0150 SAWING ASPHALT					
STATION	то	STATION	LOCATION	LF	COMMENT
306+26	-	307+30	RT	104	EDGE OF PAVEMENT
306+33	-	307+30	LT	97	EDGE OF PAVEMENT
3	807+3	0	LT/RT	24	TERMINI
3	810+3	0	LT/RT	24	TERMINI
310+30	-	311+25	RT	95	EDGE OF PAVEMENT
310+30	-	312+00	LT	170	EDGE OF PAVEMENT
			TOTAL	514	

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE CATEGORY 0010 UNLESS OTHERWISE NOTED

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PROJECT NO: 9007-03-71	HWY: CTH Y	COUNTY: OCONTO	MISCELLANEOUS QUANTITIES	3
FILE NAME : P:\2015\2015.031 - WISDOT NE CTH Y BRIDGE OCONTO CTY LPA\90070300\SHEETSPLAN\030201-MQ.PPT		PLOT DATE : 4/27/2017 3:14 PM	PLOT BY : DANIEL J. GERLING	PLOT NAME :

SHEET:	Е



LAYOUT NAME - ****



Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS	
08E09-06	SILT FENCE	
08E11-02	TURBI DI TY BARRI ER	
14B42-04A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL	
14B42-04B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL	
14B42-04C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL	
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)	
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)	
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)	
14B45-04A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)	
14B45-04B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)	
14B45-04C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)	
14B45-04G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)	
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES	
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES	
15C06-08	SIGNING & MARKING FOR TWO LANE BRIDGES	
15C08-17A	PAVEMENT MARKING (MAINLINE)	
15C09-10A	SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROS	SS
15C19-04A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY	

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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.







SILT FENCE TIE BACK (WHEN REQUIRED BY THE ENGINEER)

SILT FENCE ဖ 6 STATE OF WISCONSIN ш DEPARTMENT OF TRANSPORTATION ω APPROVED Δ 4-29-05 /S/ Beth Cannestra DATE CHIEF ROADWAY DEVELOPMENT ENGINEER Δ FHWA ഗ



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- (1) WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.
- (2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 21/2 INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 4 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- (5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS \pm 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 273/4" TO 32".
- (6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.



END VIEW

LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION





DEPARTMENT OF TRANSPORTATION

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NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN

UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

5∕8" POST BOLT

DETAIL FOR 36" BLOCKOUT DEPTH

¾" HOLE

6) 1-16D GALVANIZED NAILS

INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO

POST BOLT TABLE

11/4"

2"

10''

14''

18''

21" 25"

SEE OTHER

DETAIL

SEE OTHER DETAIL

3 WOOD OR

BLOCKOUTS

PLASTIC

T (MIN.)

11/8"

13⁄4"

4"

4¼₆ "

4"

4¼₆ "

4"

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16". 2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

ALTERNATE BOLT HEAD

15/16

15/16 ''

POST BOLT, SPLICE BOLT AND RECESS NUT

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6" X 8"

POST

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GENERIC GROUND STRUT

SECTION B-B

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PLAN VIEW

SECTION A-A

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FRONT VIEW

PART

BILL OF MATERIALS

DESCRIPTION
MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
WOOD BREAKAWAY POST
6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1 AND 2
WOOD CRT
WOOD BLOCKOUT
PIPE SLEEVE
BEARING PLATE
BCT CABLE ASSEMBLY
ANCHOR CABLE BOX
GROUND STRUT
PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
STANDARD W-BEAM RAIL.MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
END SECTION EAT
0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)

BEARING PLATE

MIDWEST GUARDRAIL SYSTEM Energy Absorbing terminal (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

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MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

DEPARTMENT OF TRANSPORTATION

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S.D.D. 14 B 45-4b

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MIDWEST GUARDRAIL SYSTEM Thrie beam transition (MGS)			
ç	STATE OF WISCONSIN	ш	
DEPART	MENT OF TRANSPORTATION	14	
APPROVED			
June, 2015	/S/ Jerry H.Zogg		
DATE	ROADWAY STANDARDS DEVELOPMENT		
FHWA	ENGINEER		
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DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

GENERAL NOTES THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE. BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY. SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS. ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES. TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE. THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS. "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, 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". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.) M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.) MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" 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". LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING). R11-2 AND R11-3 SIGNS. INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS. PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN. DIRECTIONS AND ARROWS AS APPROPRIATE. BARRICADES AND SIGNS

THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION. FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D. FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E. FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING

- (2)
- (3)
- (4)
- (5)
- (6)
- (7)

FOR MAINLINE CLOSURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

Sept. 2015 DATE FHWA

/S/ Peter Amakobe Atepe STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

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DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD

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

"T" MARKING

POST MOUNTED SIGN

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LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED Sept., 2016 /S/ Matthew R. Rauch DATE STATE SIGNING AND MARKING ENGINEER

FHWA

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Posted Speed (M.P.H.)	Dimension Range (Feet)
25	150*- 250
30	200*- 300
35	250 * - 450
40	300*- 500
45	400 [*] - 650
50	550 * - 800
55	750 * - 1000
60	1000 * - 1250
65	1000 * - 1250

FHWA

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GENERAL NOTES

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

AIN

ARE USED.

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

ARE NOT REQUIRED.

CONVOY AHEAD 0R ROAD \bullet WORK AHEA • 2 2 (2) (REAR FACING) (REAR 'FACING) (REAR FACING) (2) 2 (OPTIONAL) (FRONT FACING) (FRONT FACING) ∃ ④ SHOULDER -cones (1) 3 $\leq \square$ \leq vзk v 0 100' TYPICAL \Rightarrow \Rightarrow (4) = SHOULDER DISTANCE TO PROVIDE TRACK-FREE LINE ΔΙΝ CONVO \ HE A

MOVING PAVEMENT MARKING OPERATIONS TWO-LANE TWO-WAY ROADWAY

6

S

ROAD

WORK

\HEA

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

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

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

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

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

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

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

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

(2) USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.

(3) OPTIONAL TRUCK-MOUNTED ATTENUATOR.

(4) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

 $(\overline{\textbf{5}})$ if construction work zone signs are in place, w20-1 or w21-63

LEGEND

	V 1		
	V I	LEAD VEHICLE	
	V 2	SHADOW VEHICLE	
	V 3	TRAIL VEHICLE WITH TMA	
\Box	ΤΜΑ	TRUCK-MOUNTED ATTENUATOR	
	Þ	SIGN ON TEMPORARY SUPPORT	
	$\square >$	DIRECTION OF TRAFFIC	
	ο	CONES	
	•	FLASHING ARROW PANEL (CAUTION)	
		MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY	19-4a
		STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	15 C
		APPROVED June 2016 DATE /S/ Peter Amokobe Atepe STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER	ָם ים
		FHWA	Ι.

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

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PLOT BY : mscj9h PLOT NAME :

GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3.For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).

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

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

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

TH	TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS	
n)	WISCONSIN DEPT OF TRANSPORTATION	_
	For State Traffic Engineer	
	SHEET NO:	E

PLOT DATE : 23-JUL-2015 15:23

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)

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

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GENERAL NOTES

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

	4	Х	6	WOOD) POST			
	MODIFICATIONS							
	WISCONSIN DEPT OF TRANSPORTATION							
	APPROVE	D(<u>Cl</u> for	hester J	fic Engineer			
	DATE 3	/27/	97	PLA1	E NO. <u>A4-11.2</u>			
				SHEET	NO:	Ε		
OT SCAL	E : 6.20733	8:1.000	000	WISDO	T/CADDS SHEE	т 42		

NOTES

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

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

		. [
Z	Area sq. ft.		STANDARD SIGN							
			W5-52L & W5-52R							
	3.0									
	3.0		WISCONSIN DEPT OF TRANSPORTATION							
	6.75		APPROVED Matther & Rauch							
			for State Traffic Engineer							
]	DATE 5/29/12 PLATE NO. W5-52.9							
			SHEET NO: E							
PLOT SCALE : 4.961899:1.000000 WISDOT/CADDS SHEET 42										

9007-03-71

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED

PROFILE GRADE LINE SHALL BE DETERMINED BASED ON A MINIMUM OVERLAY THICKNESS OF 1 1/2" PLACED ABOVE THE DECK SURFACE AFTER CLEANING, EXPECTED AVERAGE OVERLAY THICKNESS IS 2". IF EXPECTED AVERAGE OVERLAY THICKNESS IS EXCEEDED BY MORE THAN 1/2", CONTACT THE STRUCTURES DESIGN SECTION.

DIMENSIONS AND STATIONING SHOWN ARE BASED ON THE ORIGINAL STRUCTURE

ANY EXCAVATION REQUIRED TO COMPLETE THE OVERLAY SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY OVERLAY

• EXISTING CROWN IS 1.0%. MAINTAIN THE EXISTING CROWN WITH THE CONCRETE

■ A MINIMUM OF 1 1/2" OF CONCRETE SHALL BE REMOVED FROM THE ENTIRE BRIDGE DECK UNDER THE BID ITEM "CLEANING DECKS".

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE ENTIRE TOP SURFACE OF THE NEW CONCRETE OVERLAY.

PROVIDE 1 1/2" DEEP SAW CUT ALONG DECK PRIOR TO CONCRETE REMOVAL. WORK IS INCIDENTAL TO THE BID ITEM "CLEANING DECKS".

THE COLOR OF THE FINISH TOP COAT FOR ALL PAINTED STEEL SHALL BE GRAY, (FEDERAL STANDARD COLOR NO. 26293) OR SIMILAR COLOR APPROVED BY THE ENGINEER.

ALL CONCRETE REMOVAL NOT COVERED WITH A CONCRETE OVERLAY SHALL BE DEFINED BY A 1" DEEP SAW CUT.

DESIGN DATA

CONCRETE MASONRY OVERLAY DECKS: f'c = 4,000 PSI

HS-17 OPERATIONAL RATING: HS-29 WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV): 230 KIPS

TRAFF	IC DATA	
AADT	(2018)	490
AADT	(2038)	560

DIRECTION OF TRAVEL

LIST OF DRAWINGS

1. OVERLAY PLAN 2. ELEVATION VIEW

<u>ACTS</u>	NO.	DATE		RE	VISION			BY	
<u>OF STRUCTURES CONTACT</u> DREHER: 608-266-8489 <u>ANT CONTACT</u> KOWAL: 715-845-8000	BE	CHER	HOPF	33 PE 71	0 Fourth Wausau, 5.845.800 bea	Street WI • 5 0 • Fo	• PO B 54402-4 0x 715.8 pe.com	8000 8000 845.8008	
	ACC		STA DEPARTME Ulliam (HIEF STRUC	TE OF NT OF	WISCON TRANSF	SIN PORTA	.tion 0 <mark>5/1</mark> r d	2/17 ATE	ð
	S	STRU	CTURE	ΞB	-42-	-17			
	С	тн ү о	VER THOM	MAS S	SLOUGH				
	COU DESI	NTY GN SPEC	OCONTO		TOWN /C	ity/vil Li	lage Itle R	IVER	
	DES BY	SIGNED AEI	B CK'D.	CJM	DRAWN BY	DJG	PLANS CK'D.	MVK	
		OVE	RLAY	PL/	۹N	SHE	ET 1	OF 2	

TOTAL ESTIMATED QUANTITIES

	BID ITEM #	BID ITEMS	UNIT	S ABUT	N ABUT	TOTAL
	502.3200	PROTECTIVE SURFACE TREATMENT	SY			205
*[509.0301	PREPARATION DECKS TYPE 1	SY			60
* [509.0302	PREPARATION DECKS TYPE 2	SY			45
	509.0500	CLEANING DECKS	SY			205
**	509.1500	CONCRETE SURFACE REPAIR	SF			10
*	509.2000	FULL-DEPTH DECK REPAIR	SY			1
	509.2500	CONCRETE MASONRY OVERLAY DECKS	CY			12
	517 . 1800.S	STRUCTURE REPAINTING RECYCLED ABRASIVE B-42-17	LS			1
	517.4500.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS B-42-17	LS			1
	517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH			1
	SPV.0060.01	CLEANING AND PAINTING PILING	EACH	14	14	28

- NOTES: VOUANTITY LISTED IS TENTATIVE. CONTRACTOR SHALL COORDINATE THE FIELD IDENTIFICATION AND DETERMINATION OF ALL DECK REPAIR LOCATIONS WITH THE ENGINEER. DECK PREPARATION AND FULL-DEPTH DECK REPAIRS SHALL BE FILLED WITH "CONCRETE MASONRY OVERLAY DECKS".
- $\xrightarrow{}$ Concrete surface repair requid as designated by the engineer. QUANTITY LISTED IS TENTATIVE. CONTRACTOR SHALL COORDINATE THE FIELD IDENTIFICATION AND DETERMINATION OF ALL SURFACE REPAIR LOCATIONS WITH THE ENGINEER.

ALL ITEMS ARE CATEGORY 0020.

	[ARE	A (SF)		IN	INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATI		
							UNUSABLE				EXPANDED	
			UNUSABLE				PAVEMENT			CUT	FILL	MASS
			PAVEMENT			CUT	MATERIAL	FILL		1.00	1.25	ORDINATE
STATION	DISTANCE	CUT	MATERIAL	FILL	EBS	NOTE 1	NOTE 2	NOTE 3	EBS	NOTE 1	NOTE 4	NOTE 5
306+25		0	0	0	0							
306+50	25	13	0	24	0	6	0	11	0	6	14	-8
306+76	26	13	0	49	0	13	0	36	0	18	59	-40
306+95	18	14	0	54	0	9	0	35	0	28	103	-75
307+00	5	14	0	52	0	3	0	11	0	31	116	-85
307+01	1	14	0	51	0	1	0	3	0	31	120	-88
307+20	18	15	4	18	0	10	1	24	0	41	149	-109
307+25	5	15	4	8	0	3	1	2	0	44	152	-110
307+26	1	15	4	6	0	1	0	0	0	45	153	-110
307+45	18	38	4	0	0	18	3	2	0	63	155	-97
307+50	5	38	4	0	0	7	1	0	0	70	155	-91
308+00	50	39	4	5	0	71	7	5	0	140	161	-33
308+41	41	36	4	0	0	56	6	4	0	196	166	13
				COLUMN	I TOTALS	196	18	133	0			

NOTES:

1) CUT INCLUDES UNUSABLE PAVEMENT MATERIAL 2) UNUSABLE PAVEMENT MATERIAL DOES NOT APPEAR IN THE CROSS SECTIONS 3) FILL DOES NOT INCLUDE UNUSABLE PAVEMENT MATERIAL EXCAVATION VOLUME 4) EXPANDED FILL = UNEXPANDED FILL * EXPANDED FILL FACTOR. EXPANDED FILL FACTOR = 1.25 5) MASS ORDINATE = (CUT - UNUSABLE PAVEMENT MATERIAL) - (FILL * FILL FACTOR)

		AREA (SF)				INCREMENTAL VOL (CY) (UNADJUSTED)				CUMULATI		
							UNUSABLE				EXPANDED	
			UNUSABLE				PAVEMENT			CUT	FILL	MASS
			PAVEMENT			CUT	MATERIAL	FILL		1.00	1.25	ORDINATE
STATION	DISTANCE	CUT	MATERIAL	FILL	EBS	NOTE 1	NOTE 2	NOTE 3	EBS	NOTE 1	NOTE 4	NOTE 5
309+19		31	4	4	0							
309+50	31	32	4	45	0	36	4	28	0	36	35	-3
310+00	50	30	4	82	0	58	7	118	0	94	182	-99
310+14	14	30	4	54	0	16	2	36	0	110	228	-131
310+32	18	11	4	52	0	14	2	36	0	124	272	-164
310+40	7	11	4	71	0	3	1	16	0	127	293	-182
310+50	10	10	0	24	0	4	1	18	0	131	315	-202
310+57	7	10	0	29	0	3	0	7	0	133	324	-208
310+65	8	10	0	41	0	3	0	10	0	136	337	-218
310+75	10	10	0	53	0	4	0	17	0	140	358	-236
310+82	7	10	0	66	0	3	0	16	0	142	378	-253
311+00	18	10	0	58	0	7	0	41	0	149	429	-298
311+50	50	6	0	22	0	15	0	74	0	164	521	-375
311+99	49	0	0	0	0	5	0	20	0	169	546	-394
				COLUMN	I TOTALS	169	17	437	0			

1) CUT INCLU	DES UNUSABLE PAVEMENT MAT	ERIAL	
2) UNUSABL	E PAVEMENT MATERIAL DOES NO	OT APPEAR IN THE CROSS SECTION	S
3) FILL DOES	NOT INCLUDE UNUSABLE PAVE	MENT MATERIAL EXCAVATION VOLU	ME
4) EXPANDE	FILL = UNEXPANDED FILL * EXP	ANDED FILL FACTOR. EXPANDED FI	LL FACTOR = 1.25
5) MASS OR	DINATE = (CUT - UNUSABLE PAVE	MENT MATERIAL) - (FILL * FILL FACT	OR)

PROJECT NO: 9007-03-71	HWY: CTH Y	COUNTY: OCONTO	EARTHWORK TABLES	
FILE NAME : P:\2015\2015.031 - WISDOT NE CTH Y BRIDGE OCONTO CTY LPA	\90070300\SHEETSPLAN\090100_EW.PPT	PLOT DATE : 3/30/2017 2:46 PM	PLOT BY : DANIEL J. GERLING	PLOT NAME :

FILE NAME : P:\2015\2015.031 - WISDOT NE CTH Y BRIDGE OCONTO CTY LPA\90070300\SHEETSPLAN\090100_EW.PPT

9

PLOT DATE : 3/30/2017 2:46 PM

SHEET:

FILE NAME : P:\2015\2015.031 - WISDOT NE CTH Y BRIDGE OCONTO CTY LPA\90070300\SHEETSPLAN\090101-XS.DWG LAYOUT NAME - 090101

PLOT DATE : 3/30/2017 2:33 PM

PLOT BY : DANIEL J. GERLING PLOT NAME :

WISDOT/CADDS SHEET 49

Notes

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