

LAYOUT NAME - 010101_TI

PLOT DATE : 12/19/2017 12:24 PM

		COT
STATE PROJECT	FEDERAL PROJ	
F100 01 C0		CONTRACT
5198-01-60	WISC 2018234	
s Ieinertz		
tractors, Inc.		
or List		
anng C	ACCEPTED FOR	7
onstruction	COUNTY	RICHLAND
	or	
	Lama	550 8445
	129-19 10th 1	Ja
	(Date) (Signature & T	Itle of Official)
	ORIGINAL PLANS PREP	ARED BY
END PROJECT		
STA. 477+41		
N= 444832.65 E= 671902.48	WESTBROC)K
	Associated Engineers, 619 EAST HOXIE STREE	Inc.
	P.O. BOX 429 SPRING GREEN, WISCONSIN 5	3588
	PHONE (608) 588-7860 FAX (008) 588-7860	3
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	Se I	11
	E AARON B.	4-
	E-35695	0
	RICHLAND CENTER	
	The WI	Nº.
	18 SILLENG	1
	MNALE	\bigcirc
	1-721-7010	20
	(Date) (Slan	Value-
	STATE OF WISCON DEPARTMENT OF TRANS	SIN PORTATION
	PREPARED BY	
	Surveyor WESTBROOK	
	Designer WESTBROOK	
	Management Consultant <u>KL ENGINEERING</u>	INC.
	APPROVED FOR THE DEPARTMENT	00 0 00
CONSIN COUNTY IN U.S. SURVEY	DATE: 1/30/18	Nelale
S, AND GRID	Management Consu	itant Signature
		E
	WISDOT/CAD	DS SHEET 1

GENERAL NOTES

2

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

EROSION CONTROL PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL INSTALL THE EROSION CONTROL PROTECTION IN ACCORDANCE WITH THE DETAILS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.

THE QUANTITY OF THE ITEMS FOR EROSION PROTECTION INCLUDES AN UNDISTRIBUTED AMOUNT FOR PROTECTION, CONTROL, AND ABATEMENT OF WATER POLLUTION RESULTING FROM SOIL EROSION. THE DISTRIBUTION AND LOCATION OF THESE MATERIALS ARE TO BE DETERMINED BY THE ENGINEER.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY ARE TO BE FERTILIZED, SEEDED AND TEMPORARILY SEEDED AS DIRECTED BY THE ENGINEER. THESE ITEMS ARE INCIDENTAL TO "BARRIER SYSTEM GRADING SHAPING FINISHING".

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

MISCELLANEOUS

MISCELLANEOUS WHEN THE QUANTITY OF BASE AGGREGATE DENSE IS MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR 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 LOCATIONS OF EXISTING AND PROPOSED UTILITY FACILITIES AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

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

ALL WASTE MATERIAL RESULTING FROM THE VARIOUS CONSTRUCTION OPERATIONS ADJACENT TO THE PAVEMENT UNDER TRAFFIC SHALL BE ENTIRELY REMOVED AND PROPERLY DISPOSED OF IMMEDIATELY OR AS DIRECTED BY THE ENGINEER.

THE EXACT LOCATION AND WIDTH OF DRIVEWAYS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER

DRIVEWAYS SHALL BE REPLACED IN KIND AND AND IN ACCORDANCE WITH THE CONSTRUCTION DETAILS.

WETLANDS EXIST IN THE PROJECT AREA. NO DISTURBANCES SHALL OCCUR OUTSIDE OF THE SLOPE INTERCEPTS IN WETLAND AREAS.

STORAGE OF EQUIPMENT AND/OR MATERIALS OUTSIDE OF THE SHOWN SLOPE INTERCEPTS, IN AREAS OF ADJACENT WETLANDS, IS PROHIBITED.

STATIONING, DISTANCES, AND OFFSETS FOR PROPOSED SIGNS SHOWN ON THE PLANS ARE APPROXIMATE AND THE LOCATIONS OF SIGNS ARE TO BE COORDINATED IN THE FIELD WITH THE ENGINEER

ALL COORDINATES ON THIS PLAN ARE REFERENCED TO THE RICHLAND COUNTY COORDINATE SYSTEM. DISTANCES SHOWN ON THIS PLAN ARE GROUND DISTANCES. BEARINGS SHOWN ON THIS PLAN ARE GRID BEARINGS.

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.

CONSULTANT LIAISON

WESTBROOK ASSOCIATED ENGINEERS, INC. 619 EAST HOXIE STREET P.O. BOX 429 SPRING GREEN, WI 53588

ATTN: AARON PALMER, P.E. PH: (608) 588-7866 apalmer@westbrookeng.com

RICHLAND COUNTY LIAISON

RICHLAND COUNTY HIGHWAY DEPARTMENT 120 BROWEN CIR RICHLAND CENTER, WI 53581

ATTN: BILL CONDON, INTERIM HIGHWAY COMMISSIONER PH: (608) 647-4707 bill.condon@co.richland.wi.us

ORDER OF SECTION 2 SHEETS

GENERAL NOTES TYPICAL SECTIONS PROJECT OVERVIEW CONSTRUCTION DETAILS GUARDRAIL DETAILS (INCLUDES EROSION CONTROL PLANS)

UTILITIES

FRONTIER COMMUNICATIONS ATTN: JERRY MOORE 20 S WILSON AVE RICE LAKE, WI 54868 (608) 742-9507 jerald.r.moore@frt.com

LA CROSSE, WI 54602

DAIRYLAND POWER COOPERATIVE (TRANSMISSION LINE) P.O. BOX 817



WISCONSIN POWER AND LIGHT

RICHLAND ELECTRIC COOPERATIVE ATTN: LARRY HALLETT P.O. BOX 439 RICHLAND CENTER, WI 53581 (608) 647-3173 Ìhallétt@rec.coop



www.DiggersHotline.com

ADT		15	
ACC		L.J.	
AGG.	AUGREGATE	LI. MU	
		M.I.	MANHOLE
EI. AL.		MAA.	
BK.	BACK	MIIN.	
В	BARN	N.	NORTH
В.М.	BENCH MARK	NOR.	NORMAL
BII.	BITUMINOUS	PAV'I.	PAVEMENT
BOT.	BOTTOM	P.C.	POINT OF CURVE
C.A.B.C.	CRUSHED AGGREGATE BASE COURSE	P.I.	POINT OF INTERSECTION
C.B.	CATCH BASIN	P.C.C.	PORTLAND CEMENT CONCRETE
C.E.	COMMERCIAL ENTRANCE	P.E.	PRIVATE ENTRANCE
င္ OR CL	CENTERLINE	PORPL	PROPERTY LINE
CH.	CHISELED	P.P.	POWER POLE
CH. CH.	CHANNEL CHANGE	PROJ.	PROJECT
CL.	CLASS	P.T.	POINT OF TANGENCY
C & G	CURB & GUTTER	P.U.	PIPE UNDERDRAIN
C.M.C.P.	CORRUGATED METAL CULVERT PIPE	P.U.U.	PIPE UNDERDRAIN UNPERFORATED
CONC.	CONCRETE	R.	RADIUS
CONST.	CONSTRUCTION	R.C.C.P.	REINFORCED CONCRETE CULVERT PIPE
COR.	CORNER	R.C.P.S.S.	REINFORCED CONCRETE PIPE, STORM SEWER
C.P.	CULVERT PIPE	REQ'D.	REQUIRED
CR.	CRUSHED	R _I OR RL	REFERENCE LINE
C.T.H.	COUNTY TRUNK HIGHWAY	R.R.	RAILROAD
CWT	HUNDREDWEIGHT	RT.	RIGHT
CY		R.H.F.	RIGHT HAND FORWARD
D	DECREE OF CURVE	R/W	RIGHT-OF-WAY
D		RD.	ROAD
рц		S.	SOUTH
	DESIGN HOURIN VOLUME	SAN.	SANITARY
		S.F.	SUPERFLEVATION
DI30.		SHR	SHRINKAGE
L.	EAST	SR	SIDE ROAD
	EXCAVATION BELOW SUBGRADE	5 5	STORM SEWER
EL. UR ELEV.		STD	STANDARD
E.M.	ERUSION MAT	STH	STATE TRUNK HIGHWAY
EXC.	EXCAVATION	STA	STATION
F.F.	FACE TO FACE	SURF	SURFACE
F.E.	FIELD ENTRANCE	SW	SIDEWALK
F.L.	FLOW LINE	5. W .	
FI.	FOOT (FEET)	5.1. т	
G.	GARAGE	T	TANCENT LENGTH OF CURVE
GAL.	GALLON		TANGENT LENGTH OF CORVE
G.F.	GEOTEXTILE FABRIC	TAN. LINE	TANGENT LINE
Н	HOUSE	TAV.	
HOR.	HORIZONTAL	1.P. T. F	TELEPHONE PULE
H.P.	HIGH POINT	I.L.E.	TEMPORARY LIMITED EASEMENT
IN.	INCHES		IRANSII LINE
INL.	INLET	1.S.F.	IEMPORARY SILT FENCE
🛆 OR I	INTERSECTION ANGLE	UNCL.	UNCLASSIFIED EXCAVATION
I.P.	IRON PIPE	V	DESIGN SPEED
I.R.	IRON ROD	VAR.	VARIABLE
L.	LENGTH OF CURVE	V.C.	VERTICAL CURVE
L.F.	LINEAR FEET	VERT.	VERTICAL
L.H.E.	LIMITED HIGHWAY EASEMENT	W.	WEST
L.H.F.	LEFT HAND FORWARD		

PROJECT NO:5198-01-60	HWY:CTH Q	COUNTY: RICHLAND	GENERAL NOTES
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FILE NAME : G:\00-PROJECT FILES\2016\16104 BOAZ - RICHLAND CENTER ID 5198-01-30\01-CAD\SHEETSPLAN\020101_GN.DWG LAYOUT NAME - ####

PLOT DATE : 3/5/2018 1:02 PM

PLOT NAME : PLOT BY : LUKE C. SANDER

WisDNR LIAISON

DNR SOUTH CENTRAL REGION HEADQUARTERS 3911 FISH HATCHERY ROAD FITCHBURG, WI 53711

ATTN: ANDY BARTA PH: (608) 275-3308 andrew.barta@wisconsin.gov

STANDARD ABBREVIATIONS

2

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SHEET





PROJECT NO: 5198-01-60	HWY: CTH Q	COUNTY: RICHLAND	TYPICAL	. SECTIONS
FILE NAME : G:\00-PROJECT FILES\2016\16104 BOAZ - RICHLAND CO LAYOUT NAME - TS	ENTER ID 5198-01-30\01-CAD\SHEETSPLAN\020201_TS.	DWG PLOT DATE : 12/14/2017 10	D:40 AM PL	OT BY : LUKE C.

T BY : LUKE C. SANDER PLOT NAME :

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Ę стн q R/W 33.0'- 50.0' R/W 33.0'-90.0' CLEAR ZONE 10.0' CLEAR ZONE 10.0' 4**.**0'* 4.0'* LIMITS OF FERTILIZER, SEED, 3.0' TYP. 11.0' 11.0' 3.0' TYP. MULCH & EROSION MAT 5.0' TYP. SALVAGED TOPSOIL VARIES 0.0% - 2.0% VARIES 0<u>.0%</u> -_2.0% 4.0% 4.0% 10:1 10:1 3:1 TYP. 21/2:1 MAX. EXISTING ASPHALTIC PAVEMENT TO REMAIN EXISTING BASE AGGREGATE ** └─ EXISTING BASE AGGREGATE TO REMAIN .KKKKKK SHOULDERS TO REMAIN. TYPICAL PROPOSED SECTION ★★ BASE AGGREGATE ¾-INCH -STA. 102+13 - STA. 103+11 STA. 130+55 - STA. 132+65 STA. 186+74 - STA. 189+32 STA. 206+56 - STA. 208+42 STA. 278+53 - STA. 281+95 - EXISTING GROUND * SHOULDER TO TAPER TO MATCH EXISTING BEYOND GUARDRAIL LIMITS. ** ADD BASE AGGREGATE TO SHOULDERS WERE NEEDED OR AS DIRECTED BY THE Ф СТН Q ENGINEER. R/W 50.0'-80.0' CLEAR ZONE 10.0' 4**.**0'* 3.0' TYP. 11.0' VARIES 0.0% - 2.0% 4.0% 10:1 - EXISTING ASPHALTIC PAVEMENT TO REMAIN - EXISTING BASE AGGREGATE TO REMAIN EXISTING BASE AGGREGATE ** SHOULDERS TO REMAIN. TYPICAL PROPOSED SECTION ** BASE AGGREGATE 34-INCH -STA. 380+99 - STA. 391+64

PROJECT NO:	5198-01-60	HWY: CTH Q	COUNTY: RICHLAND	TYPICAL	SECTIONS	
FILE NAME : G:\00-PR	OJECT FILES\2016\16104 BOAZ - RICHLAND C AME - PD	ENTER ID 5198-01-30\01-CAD\SHEETSPLAN\020201_TS.	DWG PLOT DATE : 12/14/2017 12:2	4 PM PLC	T BY : LUKE C. SANDER	PLOT NAME :





PLOT SCALE : 1:1500

WISDOT/CADDS SHEET 42



FILE NAME :G:\00-PROJECT FILES\2016\16104 BOAZ - RICHLAND CENTER ID 5198-01-30\01-CAD\SHEETSPLAN\021001_CD.DWG LAYOUT NAME - **** 2

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FILE NAME	G:\00-PROJECT	- ILES\2016\16104 BOAZ - RICHLAND CENTER ID 5198-01-30\01-CAD\SHEETSPLAN\021201_PD.DWG	
	LAYOUT NAME -	****	

PLOT DATE : 3/5/2018 10:59 AM PLOT BY : LUKE C. SANDER PLOT NAME :



FILE NAME :G:\00-PROJECT FILES\2016\16104 BOAZ - RICHLAND CENTER ID 5198-01-30\01-CAD\SHEETSPLAN\021202_PD.DWG LAYOUT NAME - #*** PLOT DATE : 3/5/2018 11:04 AM



FILE NAME :G:\00-PROJECT FILES\2016\16104 BOAZ - RICHLAND CENTER ID 5198-01-30\01-CAD\SHEETSPLAN\021203_PD.DWG LAYOUT NAME - #***



FILE NAME :G:\00-PROJECT FILES\2016\16104 BOAZ - RICHLAND CENTER ID 5198-01-30\01-CAD\SHEETSPLAN\021204_PD.DWG LAYOUT NAME - #***





FILE NAME :G:\00-PROJECT FILES\2016\16104 BOAZ - RICHLAND CENTER ID 5198-01-30\01-CAD\SHEETSPLAN\021206_PD.DWG LAYOUT NAME - ####

PLOT DATE : 3/5/2018 12:14 PM PLOT BY : LUKE C. SANDER





FILE NAME : G:\00-PROJECT FILES\2016\16104 BOAZ - RICHLAND CENTER ID 5198-01-30\01-CAD\SHEETSPLAN\023201_PS.DWG LAYOUT NAME - ****



FILE NAME : G:\00-PROJECT FILES\2016\16104 BOAZ - RICHLAND CENTER ID 5198-01-30\01-CAD\SHEETSPLAN\023202_PS.DWG LAYOUT NAME - ****

PLOT NAME :



FILE NAME : G:\00-PROJECT FILES\2016\16104 BOAZ - RICHLAND CENTER ID 5198-01-30\01-CAD\SHEETSPLAN\023203_PS.DWG LAYOUT NAME - ****

PLOT DATE : 11/28/2017 8:36 AM PLOT BY : LUKE C. SANDER

PLOT NAME :



FILE NAME : G:\00-PROJECT FILES\2016\16104 BOAZ - RICHLAND CENTER ID 5198-01-30\01-CAD\SHEETSPLAN\023204_PS.DWG LAYOUT NAME - **** PLOT DATE : 11/28/2017 8:40 AM PLOT BY : LUKE C. SANDER

ER PLOT NAME :

PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 42



FILE NAME : G:\00-PROJECT FILES\2016\16104 BOAZ - RICHLAND CENTER ID 5198-01-30\01-CAD\SHEETSPLAN\023205_PS.DWG LAYOUT NAME - **** PLOT DATE : 11/28/2017 8:45 AM

PLOT BY : LUKE C. SANDER PLOT NAME :



FILE NAME : G:\00-PROJECT FILES\2016\16104 BOAZ - RICHLAND CENTER ID 5198-01-30\01-CAD\SHEETSPLAN\023206_PS.DWG LAYOUT NAME - **** PLOT NAME :



FILE NAME : G:\00-PROJECT FILES\2016\16104 BOAZ - RICHLAND CENTER ID 5198-01-30\01-CAD\SHEETSPLAN\023207_PS.DWG LAYOUT NAME - ****

PLOT DATE : 11/28/2017 8:53 AM

PLOT BY : LUKE C. SANDER

WISDOT/CADDS SHEET 42





FILE NAME :G:\00-PROJECT FILES\2016\16104 BOAZ - RICHLAND CENTER ID 5198-01-30\01-CAD\SHEETSPLAN\023209_PS.DWG LAYOUT NAME - ####

PLOT BY : LUKE C. SANDER

PLOT NAME :



FILE NAME : G:\00-PROJECT FILES\2016\16104 BOAZ - RICHLAND CENTER ID 5198-01-30\01-CAD\SHEETSPLAN\023210_PS.DWG LAYOUT NAME - **** PLOT DATE : 11/28/2017 9:28 AM

PLOT BY : LUKE C. SANDER PLOT NAME :

WISDOT/CADDS SHEET 42



FILE NAME : G:\00-PROJECT FILES\2016\16104 BOAZ - RICHLAND CENTER ID 5198-01-30\01-CAD\SHEETSPLAN\023211_PS.DWG LAYOUT NAME - **** PLOT DATE : 1/3/2018 12:34 PM

PLOT BY : LUKE C. SANDER

PLOT NAME :



FILE NAME : G:\00-PROJECT FILES\2016\16104 BOAZ - RICHLAND CENTER ID 5198-01-30\01-CAD\SHEETSPLAN\023212_PS.DWG LAYOUT NAME - **** PLOT DATE : 1/3/2018 12:37 PM

PLOT BY : LUKE C. SANDER PLOT NAME :



FILE NAME : G:\00-PROJECT FILES\2016\16104 BOAZ - RICHLAND CENTER ID 5198-01-30\01-CAD\SHEETSPLAN\023213_PS.DWG LAYOUT NAME - **** PLOT DATE : 1/3/2018 12:39 PM

PLOT BY : LUKE C. SANDER

PLOT NAME :

WISDOT/CADDS SHEET 42

				I	Estimate Of	Quantities
					5198-01-60	
Line	ltem	Item Description	Unit	Total	Qty	
0002	203.0100	Removing Small Pipe Culverts	EACH	1.000	1.000	
0004	204.0165	Removing Guardrail	LF	529.000	529.000	
0006	211.0500	Prepare Foundation for Base Aggregate	STA	41.000	41.000	
8000	213.0100	Finishing Roadway (project) 01. 5198-01-60	EACH	1.000	1.000	
0010	305.0110	Base Aggregate Dense 3/4-Inch	TON	390.000	390.000	
0012	521.1024	Apron Endwalls for Culvert Pipe Steel 24-Inch	EACH	2.000	2.000	
0014	521.3124	Culvert Pipe Corrugated Steel 24-Inch	LF	56.000	56.000	
0016	614.0010	Barrier System Grading Shaping Finishing	EACH	11.000	11.000	
0018	614.2300	MGS Guardrail 3	LF	1,028.000	1,028.000	
0020	614.2310	MGS Guardrail 3 HS	LF	135.000	135.000	
0022	614.2340	MGS Guardrail 3 L	LF	425.000	425.000	
0024	614.2500	MGS Thrie Beam Transition	LF	120.000	120.000	
0026	614.2610	MGS Guardrail Terminal EAT	EACH	20.000	20.000	
0028	614.8010	Anchor Post Assembly Top Mount	EACH	16.000	16.000	
0030	619.1000	Mobilization	EACH	1.000	1.000	
0032	624.0100	Water	MGAL	3.000	3.000	
0034	628.1504	Silt Fence	LF	3,000.000	3,000.000	
0036	628.1520	Silt Fence Maintenance	LF	3,000.000	3,000.000	
0038	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000	
0040	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0042	628.2008	Erosion Mat Urban Class I Type B	SY	1,950.000	1,950.000	
0044	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	67.000	67.000	
0046	637.2230	Signs Type II Reflective F	SF	443.500	443.500	
0048	638.2102	Moving Signs Type II	EACH	4.000	4.000	
0050	638.2602	Removing Signs Type II	EACH	20.000	20.000	
0052	638.3000	Removing Small Sign Supports	EACH	8.000	8.000	
0054	642.5001	Field Office Type B	EACH	1.000	1.000	
0056	643.0310.S	Temporary Portable Rumble Strips	LS	1.000	1.000	
0058	643.0900	Traffic Control Signs	DAY	520.000	520.000	
0060	643.5000	Traffic Control	EACH	1.000	1.000	
0062	650.9910	Construction Staking Supplemental Control (project) 01. 5198-01-60	LS	1.000	1.000	
0064	SPV.0060	Special 01. MGS Thrie Beam Concrete Bridge Rail Mounted	EACH	2.000	2.000	

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03/09/2018 17:18:30 3 Page 1

						<u>PREPARE FOU</u> <u>AGG</u>	NDATION FOR	BASE
ULVERT R	EPLACEMEN [.]	т	REMOVIN	IG GUARDRAIL	-	STATION STATION		211.0500 (STA)
202 0100	521 0124	521 1024			204 0165	400145 400150		(517)
REMOVING	CULVERT PIPE	APRON ENDWALLS	STATION - STATION	LOCATION	204.0105 (LF)	102+15 - 103+56	MAINLINE, LI MAINI INF. RT	2
SMALL PIPE	CORRUGATED	FOR CULVERT PIPE			(2.)	130+09 - 133+17	MAINLINE, LT	3
CULVERTS	STEEL 24-INCH	STEEL 24-INCH	187+43 - 188+24	MAINLINE, LI	79	129+97 - 133+14	MAINLINE, RT	3
(EACH)	(LF)	(EACH)	187+14 - 188+02	MAINLINE, RI	153	186+02 - 189+04	MAINLINE, LT	3
1	56	2	200+70-200+10	MAINLINE DT	142	186+91 - 190+39	MAINLINE, RT	3
1	50	Z	200173-200120	MAINLINE, RI	155	206+42 - 208+48	MAINLINE, LT	2
1	56	2		TOTAL	529	206+07 - 209+41	MAINLINE, RT	3
						278+06 - 282+61	MAINLINE, RT	4
	MINIMUM TH	ICKNESS = 0.064"				279+01 - 283+10	MAINLINE, LT	4
						379+80 - 391+83	MAINLINE, RT	12
							TOTAL	41

			BEAM GUA	RD AND TERMI	NALS			
STATION - STATION	LOCATION	614.2300 MGS GUARDRAIL 3 (LF)	614.2310 MGS GUARDRAIL 3 HS	614.2340 MGS GUARDRAIL 3 L (LF)	614.2500 MGS THRIE BEAM TRANSITION (LF)	614.2610 MGS GUARDRAIL TERMINAL EAT (EACH)	614.8010 ANCHOR POST ASSEMBLIES TOP MOUNTED (EACH)	SPV.0060.01 MGS THRIE BEAM CONCRETE BRIDGE RAIL MOUNTED (EACH)
102+13.38 - 103+05.91	LT				40	1		-
102+21.26 - 103+13.69	RT				40	1		_
130+53.31 - 132+66.43	LT				76	2		1
130+54.11 - 132+65.64	RT				76	2		1
186+73.31 - 188+59.77	LT		69		_	2	8	_
186+99.83 - 189+38.37	RT	72	66		_	2	8	_
206+62.10 - 208+41.88	LT			69	_	2		_
206+59.29 - 208+41.94	RT			69	-	2	_	_
278+81.74 - 281+69.16	RT	_3		181	_	2		_
279+95.76 - 282+14.43	LT			106	_	2		_
380+93.12 - 391+63.25	RT	956			_	2		-
-	TOTALS	1028	135	425	120	20	16	2

			BA	RRIER SYS	STEM GRA	DING SHA	PING FINI	SHING						ERC	DSION CO	NTROL ITE	MS	
					F	OR INFORMATIO	ONAL PURPOS	SES ONLY SEEDING		CONSTRUCTION	628.2008 EROSION MAT				628.1504	628.1520	628.1905 MOBILIZATIONS	628.1910 MOBILIZATIONS
STATION STATION	LOCATION	614.0010	EXCAVATION COMMON	BORROW	SALVAGED TOPSOIL	MULCHING	FERTILIZER TYPE B	MIXTURE NO. 30	SEEDING TEMPORARY	STAKING SLOPE STAKES	URBAN CLASS TYPE B	I.	STATION - STATION	LOCATION	FENCE (LF)	MAINTENANCE (LF)	CONTROL (EACH)	EROSION CONTROL (EACH)
STATION - STATION	LUCATION	(EACH)	(СТ)	(01)	(51)	(51)		(LB)	(LB)	(LF)	(51)		102+13 - 103+06	MAINLINE, LT	107	107		
102+13 - 103+06	MAINLINE, LI	1		2	130	0	0.1	3	5	143	210		102+21 - 103+14	MAINLINE, RT	135	135		
102+21 - 103+14	MAINLINE, RT	1		2	1/0	0	0.1	4	6	141	240		130+53 - 132+66	MAINLINE, LT	236	236		
130+53 - 132+66	MAINLINE, LI	1		51	130	0	0.1	3	5	307	165		130+54 - 132+66	MAINLINE, RT	230	230		
130+54 - 132+66	MAINLINE, RI	1		3	35	0	0.1	1	2	318	70		186+73 - 188+60	MAINLINE, LT	254	254		
186+73 - 188+60	MAINLINE, LI	1		21	120	0	0.1	3	4	301	150		186+99 - 189+39	MAINLINE, RT	276	276		
180+99 - 189+39	MAINLINE, RT	1		1	20	0	0.1	1	2	348	50		206+62 - 208+42	MAINLINE, LT	190	190		
200+02 - 200+42	MAINLINE, LI	1		4	40	0	0.1	2	2	209	00		206+59 - 208+42	MAINLINE, RT	263	263		
200+39 - 200+42	MAINLINE, RI	1		0	33	0	0.1	2	3	334	100		278+81 - 281+70	MAINLINE, RT	326	326		
270+05 202+15	MAINLINE, RI	1		10	90	0	0.1	3	4	400	130		279+95 - 282+15	MAINLINE, LT	293	293		
219+95 - 202+15	MAINLINE, LI	1		144	100	0	0.1	4	0	400	210		380+25 - 381+50	MAINLINE, RT	127	127		
380+93 - 391+04	UNDISTRIBUTED	_	10				0.2	_	o 	-	265		390+00 - 391+75	MAINLINE, RT UNDISTRIBUTED	183 380	183 380	2	2
	TOTALS	11	10	320	1220	0	1.2	31	47	4167	1950		-	TOTALS	3000	3000	2	2
T NO:5198-0	1-60		Н	WY:CTH	Q			COUNTY	RICHLAND)		MISCELLANEOUS QUANT	ITIES					SHEET

FILE NAME : G:\00-PROJECT FILES\2016\16104 BOAZ - RICHLAND CENTER ID 5198-01-30\01-CAD\SHEETSPLAN\030201_MQ.DWG LAYOUT NAME - ****

LOCATION

STA. 103+20, RT

TOTAL

3

PLOT DATE : 3/5/2018 12:39 PM

PLOT BY : LUKE C. SANDER PLOT NAME :

WATER

MOVING SIGNS TYPE II

PROPOSED

LOCATION

TOTAL

1

PROJECT

5198-01-60

TOTAL

STA. 131+42, 13' LT STA. 131+42, 15' LT STA. 131+43, 13' RT STA. 131+43, 15' RT

STA. 131+77, 13' LT STA. 131+77, 15' LT STA. 133+77, 13' RT STA. 133+77, 15' RT

EXISTING

LOCATION

624.0100

WATER

(MGAL)

3

3

BASE AGGREGATE DENSE 3/4-INCH

	305.0110	
LOCATION	(TON)	
BEAM GUARD REPLACEMENTS	315	
DRIVEWAYS	40	
UNDISTRIBUTED	35	
TOTAL	390	



PERMANENT SIGNING

-	-	-				-	
-		~	N/I	^	M		
		•					

	SIGN NO. 101R 102 301R 302R 302R 303 304 401 402 403 404 405R 406 407 408 409 410 411 412R 413 414R 415R 416 417 418 417 418 419 420 421 422R 504	STATION 110+25 110+25 178+00 178+00 178+00 178+00 184+25 184+25 184+25 185+50 185+50 185+50 185+50 187+50 187+50 187+50 197+50 197+50 197+50 197+50 197+50 203+00 203+00 204+0	SIGN CODE W3-1 W1-4L W13-1 W1-4L W13-1 W1-8 W1-8 W1-6 W1-6 W1-6 W1-6 W1-6 W1-6 W1-6 W1-8 W1-8 W1-8 W1-8 W1-8 W1-8 W1-8 W1-8	SIGN SI IN XIN 36 X 36 X 30 X 18 X 18 X 18 X 18 X 18 X 18 X 18 X 18	6 SIGN 2E 36 36 30 18 30 18 24 24 24 24 24 24 24 24 24 24 24 24 24	37.2230 NS TYPE II LECTIVE F (SF) 6.25 2.25 3 3 8 8 3 3 3 3 3 3 3 3 3 3 3 3 3	634.0614 POST WOOD 4X6 INCH 14 FT (EACH) 1 1	638.2602 REMOVING SIGNS TYPE II (EACH) 1 1 1 1 	638.3000 REMOVING SMALL SIGN SUPPORTS (EACH) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	MESSAGE STOP AHEAD STOP AHEAD STOP AHEAD ROAD CURVES AHEAD (LEFT) 30 MPH ROAD CURVES AHEAD (LEFT) 40 MPH CHEVRON CHEVR		SIGN NO. 833 834 835 836 901 902 903 904 905R 906 907R 908R 909 910 911 912 913 914 915 916 917 918 919 917 918 919 919 910 917 918 919 910 917 918 919 910 910 917 918 919 910 910 917 918 910 910 910 910 910 910 910 910 910 910	STATION 324+00 325+75 325+75 327+00 327+00 327+75 327+75 331+00 331+00 344+50 344+50 344+50 344+50 344+50 344+50 344+50 344+75 348+75 348+75 348+75 348+75 350+00 352+00 352+00 352+00 352+25 353+25 354+25 355+50 355+50	SIGN CODE W1-8 W1-8 W1-8 W1-8 W1-8 W1-8 W1-8 W1-8	SIGN SIZE IN XIN 18 X 24 18 X 18 30 X 30 18 X 24 18 X 18 30 X 30 18 X 24 18 X <th< th=""><th>637.2230 SIGNS TYPE II REFLECTIVE F (SF) 3 3 3 3 3 3 3 3 3 3 3 3 3</th><th>634.0614 POST WOOD 4X6 INCH 14 FT (EACH) 1 1</th><th>638.2602 REMOVING SIGNS TYPE II (EACH) 1 1 </th><th>638.3000 REMOVING SMALL SIGN SUPPORTS (EACH) 1 1 1 </th><th>MESSAGE CHEVRON CHEVRON CHEVRON CHEVRON CHEVRON CHEVRON CHEVRON CHEVRON CHEVRON CHEVRON 40 MPH 45 MPH ROAD CURVES AHEAD (LEFT) 40 MPH ROAD CURVES AHEAD (LEFT) 45 MPH CHEVRON</th></th<>	637.2230 SIGNS TYPE II REFLECTIVE F (SF) 3 3 3 3 3 3 3 3 3 3 3 3 3	634.0614 POST WOOD 4X6 INCH 14 FT (EACH) 1 1	638.2602 REMOVING SIGNS TYPE II (EACH) 1 1 	638.3000 REMOVING SMALL SIGN SUPPORTS (EACH) 1 1 1 	MESSAGE CHEVRON CHEVRON CHEVRON CHEVRON CHEVRON CHEVRON CHEVRON CHEVRON CHEVRON CHEVRON 40 MPH 45 MPH ROAD CURVES AHEAD (LEFT) 40 MPH ROAD CURVES AHEAD (LEFT) 45 MPH CHEVRON
	501 502 503 504	205+00 205+00 206+50 206+50	W1-8 W1-8 W1-8 W1-8	18 X 18 X 18 X 18 X	24 24 24 24	3 3 3 3	1			CHEVRON CHEVRON CHEVRON CHEVRON		1006 1007R 1008R 1009R	359+00 381+00 381+00 381+00	W13-1 W1-2L W13-1 W13-1	18 X 18 30 X 30 18 X 18 18 X 18	2.25		 1 1	1	50 MPH ROAD CURVES AHEAD (LEFT) 40 MPH 35 MPH
	505 506 507 508	207+75 207+75 211+00 211+00	W1-8 W1-8 W1-8 W1-8	18 X 18 X 18 X 18 X	24 24 24 24	3 3 3 3	1 			CHEVRON CHEVRON CHEVRON CHEVRON		1010 1011 1012	381+00 384+00 384+00	W13-1 W1-8 W1-8	18 X 18 18 X 24 18 X 24	2.25 3 3	1			50 MPH CHEVRON CHEVRON
	509 510 511 512	212+25 212+25 213+25 213+25	W1-8 W1-8 W1-8	18 X 18 X 18 X	24 24 24	3 3 3	1 1			CHEVRON CHEVRON CHEVRON		1013 1014 1101 1102	385+75 385+75 387+25 387+25	W1-8 W1-8 W1-8 W1-8	18 X 24 18 X 24 18 X 24 18 X 24 18 X 24	3 3 3 3	1 1			CHEVRON CHEVRON CHEVRON CHEVRON
	513 514 515R 516	214+50 214+50 220+00 220+00	W1-8 W1-8 W13-1 W13-1	18 X 18 X 18 X 18 X 18 X	24 24 18 18	3 3 2.25	1	1		CHEVRON CHEVRON 45 MPH 40 MPH		1103 1104 1105 1106	388+75 388+75 390+00 390+00	W1-8 W1-8 W1-8 W1-8	18 X 24 18 X 24 18 X 24 18 X 24 18 X 24	3 3 3 3	1			CHEVRON CHEVRON CHEVRON CHEVRON
	517R 518 701R 702	227+25 227+25 262+50 262+50	W13-1 W13-1 W13-1 W13-1 W13-1	18 X 18 X 18 X 18 X 18 X	18 18 18 18	2.25		1 1 		50 MPH 35 MPH 50 MPH 40 MPH		1107 1108 1109 1110	391+25 391+25 392+50 392+50	W1-8 W1-8 W1-8 W1-8	18 X 24 18 X 24 18 X 24 18 X 24 18 X 24	3 3 3 3	1			CHEVRON CHEVRON CHEVRON CHEVRON
	801 802R 803 804	298+00 300+50 300+50 304+00	W2-2 W13-1 W13-1 W1-8	30 X 18 X 18 X 18 X	30 18 18 24	6.25 2.25 3	1 1	1		SIDE ROAD (RIGHT ANGLE) SYMBOL 40 MPH 45 MPH CHEVRON		1111 1112 1113 1114	393+75 393+75 394+75 394+75	W1-8 W1-8 W1-8 W1-8	18 X 24	3 3 3 3	1 1 			CHEVRON CHEVRON CHEVRON CHEVRON
	805 806 807	304+00 305+00 305+00	W1-8 W1-8 W1-8	18 X 18 X 18 X 18 X	24 24 24 24	3 3 3	1			CHEVRON CHEVRON CHEVRON		1115 1116 <u>1117</u> 1118	397+75 397+75 399+00 399+00	W1-8 W1-8 W1-8 W1-8	18 X 24 18 X 24 18 X 24 18 X 24 18 X 24	3 3 3	1 1			CHEVRON CHEVRON CHEVRON CHEVRON
	808 809 810 811	307+00 307+00 308+00 308+00	W1-8 W1-8 W1-8 W1-8	18 X 18 X 18 X 18 X	24 24 24 24	3 3 3 3	1 1			CHEVRON CHEVRON CHEVRON CHEVRON		1119 1120 1121 1122	400+25 400+25 401+50 401+50	W1-8 W1-8 W1-8 W1-8	18 X 24 18 X 24 18 X 24 18 X 24	3 3 3	1 			CHEVRON CHEVRON CHEVRON CHEVRON
	812 813 814 815 910	309+00 309+00 310+00 310+00 211+00	W1-8 W1-8 W1-8 W1-8	18 X 18 X 18 X 18 X	24 24 24 24 24	3 3 3 3	1			CHEVRON CHEVRON CHEVRON CHEVRON		1123 1124 1125 1126	402+50 402+50 403+75 403+75	W1-8 W1-8 W1-8 W1-8 W1-8	18 X 24 18 X 24 18 X 24 18 X 24 18 X 24 18 X 24	3 3 3 3	1			CHEVRON CHEVRON CHEVRON CHEVRON
	817 818 819	311+00 312+00 312+00	W1-8 W1-8 W1-8 W1-8	18 X 18 X 18 X 18 X	24 24 24 24 24	3 3 3	1			CHEVRON CHEVRON CHEVRON CHEVRON		1127 1128 1129 1130	405+00 405+00 406+25 406+25	W1-8 W1-8 W1-8 W1-8	18 X 24 18 X 24 18 X 24 18 X 24 18 X 24	3 3 3 3	1			CHEVRON CHEVRON CHEVRON CHEVRON
	820 821 822 823	313+00 313+00 314+00 315+00	W1-8 W1-8 W2-2 W1-8	18 X 18 X 30 X 18 X	24 24 30 24	3 3 6.25 3	1 1 1			CHE VRON CHEVRON SIDE ROAD (RIGHT ANGLE) SYMBOL CHEVRON		1131 1132 1133 1134	409+50 409+50 410+50 410+50	W1-8 W1-8 W1-8	18 X 24 18 X 24 18 X 24 18 X 24	3 3 3 3	1 1			CHEVRON CHEVRON CHEVRON
	824 825 826 827	315+00 316+00 316+00 320+25	W1-8 W1-8 W1-8 W1-8	18 X 18 X 18 X 18 X	24 24 24 24	3 3 3 3	1			CHEVRON CHEVRON CHEVRON CHEVRON	_	1134 1135 1136 1137	410+50 411+75 411+75 413+00	W1-8 W1-8 W1-8 W1-8	18 X 24 18 X 24 18 X 24 18 X 24 18 X 24	3 3 3 3	1 			CHEVRON CHEVRON CHEVRON CHEVRON
	828 829 830 831	320+25 321+25 321+25 321+25	W1-8 W1-8 W1-8	18 X 18 X 18 X 18 X	24 24 24 24	3 3 3	1			CHEVRON CHEVRON CHEVRON CHEVRON	_	1138 1201R 1202 1203R	413+00 431+00 431+00 436+75	W1-8 W13-1 W13-1 W13-1	18 X 24 18 X 18 18 X 18 18 X 18 18 X 18	3 2.25		1		CHE VRON 35 MPH 40 MPH 35 MPH
	832	322+50	W1-8	18 X	24	3				CHEVRON			TOTAL	PROJECT 5	198-01-60	443.5	67	20	8	
PROJECT NO	D : 5198-0	01-60			HWY:	CTH Q	!		С	OUNTY: RICHLAND		MISCEL	LANEOUS	S QUAN	NTITIES					SHEET

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FILE NAME : G:\00-PROJECT FILES\2016\16104 BOAZ - RICHLAND CENTER ID 5198-01-30\01-CAD\SHEETSPLAN\030202_MQ.DWG LAYOUT NAME - ****

SIGNING CONTINUED

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PLOT SCALE : *********

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Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
14B42-05A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-05B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-05C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-05D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B43-03A	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-03B	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B43-03C	MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)
14B44-03A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-03B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-03C	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)
14B51-01A	ANCHOR POST ASSEMBLY TOP-MOUNTED
14B51-01B	ANCHOR POST ASSEMBLY TOP-MOUNTED
14B51-01C	ANCHOR POST ASSEMBLY TOP-MOUNTED
15C04-04	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M. P. H. OR GREATER TWO-WAY UN
15C12-06	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

INDIVIDED ROAD OPEN TO TRAFFIC



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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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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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- (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.
- (4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 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 27 $\frac{3}{4}$ " 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



S.D.D. 14 B 42-5a



STATE OF WISCONSIN 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.

DETAIL FOR 36" BLOCKOUT DEPTH

DETAIL SEE OTHER DETAIL 3 WOOD OR 6"X 8" PLASTIC POST BLOCKOUTS ¾" HOLE 5∕8" POST BOLT

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

2 WOOD OR PLASTIC

BLOCKOUTS

¾" HOLE

5⁄8" POST BOLT

DETAIL FOR 16" BLOCKOUT DEPTH

INCREASE THE POST OFFSET TO AVOID UNDERGROUND

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

- SEE OTHER DETAIL

SEE OTHER

SEE OTHER DETAIL

POST BOLT TABLE T (MIN.) L 11/4" 11/8" 2" 13⁄4" 10'' 4" 14'' 41⁄16 " 18'' 4"

ALTERNATE BOLT HEAD

DETAILS ALTERNATE BLOCKOUT 1

ALTERNATE BLOCKOUT 2



POST BOLT, SPLICE BOLT AND RECESS NUT







NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF $\frac{1}{16}$ ". 2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT







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1-16D GALVANIZED

6" X 8"

(6)

1-16D GALVANIZED

NAILS

POST


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SEE POST PLACEMENT OF POST - SEE POST PLACEMENT DETAIL FROM BACK SHOULDER DETAIL OF STRUCTURE HINGE POINT < ◀ ____ **->** 🚥 2<u>'-0"</u> 4. ©____ 6 <u></u> 3 (1) (\mathbf{A}) < ← **->** 🚥 MSG EAT (SHOWN) OR MSG BEAM GUARD (SEE OTHER SECTIONS OF THE PLAN) 12'-6" 12'-6" 12'-6' 12'-6' 12'-6' 12'-6 12'-6 25'-0" CENTER TO B CENTER OF POSTS 112'-6" ® BEAM GUARD MGS (L) DIRECTION OF TRAVEL \Box PLAN VIEW 112'-6" ^(B) BEAM GUARD MGS (L) 25'-0" CENTER TO CENTER OF POSTS MGS EAT OR MGS BEAM GUARD (SEE OTHER SECTIONS OF THE PLAN) 12'-6' 12'-6" 12'-6" 12'-6' 12' 12'-6 1 6 (5) (4) 3 2 \bigcirc 2 3 4 5 6 $\overline{7}$ \square DIRECTION OF TRAVEL

MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L) TWO-WAY TRAFFIC

ELEVATION VIEW

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1'-0" BACK -

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GENERAL NOTES

POSTS 1 THROUGH 3 ARE CRT POSTS. ALL OTHER POSTS SHALL BE WOOD OR STEEL.

SEE SDD 14 B 42 FOR MORE DETAILS.

(A) FLARE FOR MGS EAT SHOWN. IF INSTALLING MGS NO FLARE NEEDED.

 $(\ensuremath{\mathsf{B}})$ values shown on drawing represent the maximum length. Shorter dimensions are possible. See other section of plan for more INFORMATION.





MIDWEST GUARDRAIL SYSTEM LONG SPAN MGS (L)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

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9 H GENERIC GROUND STRUT







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BILL OF MATERIALS
DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
UPPER POST NO.1 6" X 6" TUBE
LOWER POST NO.1
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.
IMPACT HEAD
EAT MARKER POST – YELLOW (SEE APPROVED PRODUCTS LIST)
SOIL PLATE
UPPER POST NO. 2
LOWER POST NO.2

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 44-3b В 14 ġ Ď S



S.D.D. 14 B 44-3c



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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)							
STATE OF WISCONSIN							
DEPARTMENT OF TRANSPORTATION							
APPROVED							
June, 2015	/S/ Jerry H.Zogg						
DATE	ROADWAY STANDARDS DEVELOPMENT						
FHWA ENGINEER							
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ASSEMBLY TOP-MOUNTED

DEPARTMENT OF TRANSPORTATION

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51-1a ш 14 Δ Δ



S D D 14 Β 51-1b

DEPARTMENT OF TRANSPORTATION

MATERIALS LIST

ITEM	DESCRIPTION	MATERIAL SPECIFICATIONS	NOTES				
Al	W6x9 or W6x8.5	6x9 or W6x8.5 ASTM A992,50 KSI MIN. ASTM A709 GRADE 50 OR ASTM A36					
(A2)	STEEL BASE PLATE	ASTM A992 50 KSI MIN., ASTM A529 GRADE 50, ASTM A572 GRADE 50, OR ASTM A36					
(A3)	1" DIA. THREADED ROD	SAE J429 GRADE 2. ASTM A307 GRADE C. OR ASTM F1554 GRADE 36	LENGTH WILL VARY				
(44)	1" DIA. FLAT WASHER	ASTM F844					
A5	I" HEX NUT	ASTM A563A					
(A6)	I" DIA. HEX BOLT	ASTM A307	LENGTH WILL VARY				
(A7)	PLATE WASHER	ASTM A992 50 KSI MIN., ASTM A529 GRADE 50, ASTM A572 GRADE 50, OR ASTM A36					
A8	1" DIA. FLAT WASHER	ASTM F844					
(A9)	1" DIA. HEX NUT	ASTM A563A					
(A10)	SHIM PLATE	SEE (A2)	4 MAX PER POST				









PLATE WASHER - A7



SEE NOTE (4)





TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL



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Sept. 2017 DATE FHWA

/S/ Andrew Heidtke WORK ZONE ENGINEER

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DEPARTMENT OF TRANSPORTATION



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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FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W12.DGN



FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W14.DGN

PLOT DATE : 17-MAY-2012 13:20 PLOT BY : mscsja PLOT NAME :

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

	STANDARD STGN
Areo sq. ft.	STANDARD SIGN
4.0	W1-4
6.25	
 	WISCONSIN DEPT OF TRANSPORTATION
9.0	
9.0	APPROVED Matthew P Paulo
9.0	for State Traffic Engineer
16.0	DATE <u>5/17/12</u> PLATE NO. <u>W1-4.11</u>
	SHEET NO: E
	PLOT SCALE : 5.706180:1.000000 WISDOT/CADDS SHEET 42



- 2. Color:
 - Message Black

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W16.DGN

PLOT DATE : 07-JUN-2010 10:37 PLOT BY : ditjph

PLOT NAME :

W

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Y

NOTES

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

Background - Yellow 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.

Z	Area sq. ft.	
	4.5	STANDARD SIGN
	8.0	W1-6
	8.0	WISCONSIN DEPT OF TRANSPORTATION
	12.5	APPROVED Matthew R Rough
	12.5	For State Traffic Engineer
	32.0	DATE <u>6/7/10</u> PLATE NO. <u>W1-6.8</u>
		SHEET NO:



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

Z Area sq. ft. 1.5 3.0	STA	ANDAR W1-	D SIGN 8				
3.0	WISCONSIN	DEPT OF	TRANSPORTATION	/			
5.0	PPROVED	Matthe	, P P	/			
7 . 5	for State Traffic Engineer						
12.0	DATE 6/7/10 PLATE NO. W1-8.6						
		SHEET	NO:	Ε			

WISDOT/CADDS SHEET 42



FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W22.DGN

PLOT NAME :

PLOT BY : mscsja

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.

Areo	ן	STANDARD SIGN
4.0		W2-2
6.25		WISCONSIN DEPT OF TRANSPORTATION
6.25		
9.0		APPROVED Matthew & Rauch
16.0		for State Traffic Engineer
]	DATE 5/29/12 PLATE NO. W2-2.6
		SHEET NO: E
	PLOT SCALE	: 6.202372:1.000000 WISDOT/CADDS SHEET 42

PLOT DATE : 29-MAY-2012 10:18



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	Р	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 <mark>1⁄8</mark>	∛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											
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FILE N	AME : C:	\Users\F	PROJECTS\+	r_stdpla	.te∖₩31.D	GN										PLOT DA	TE : 07-	JUN-2010	12:59	PLO	T BY : d.	itjph				

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



FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W131.DGN

PLOT DATE: 31-MAY-2012 10:57 PLOT BY : mscsja

PLOT NAME :

Type F Refle Specification NSTRUCTION Ic	ective - r n for HIG atest edit	eferenco HWAY jon.	e	
llow See Note 6 quare or rou od but border ose material ers shall be priate numerc to achieve pr	nded wher s shall be is metal, rounded. als and op roper bala	n base ; rounde the tically s ince.	ed pace	
				7
Areo sa. ff. 2.25 2.25 2.25 4.00 9.00 9.00	STAND WISCONSIN DEP APPROVED Mai For DATE 5/31/12	ARD SI V13-1 T OF TRANSPO THE R State Traffic Engin PLATE NO.	GN DRT AT ION Rauch eer <u>W13-1.16</u>	
PLOT SCALE : 3	S.225232:1.000000	HEET NO:	DS SHEET 4	2



STATE PROJECT NUMBER

5198-01-60

NOTES:

SEE STANDARD DETAIL DRAWING 14B45 FOR MORE INFORMATION.

THRIE BEAM RAIL C-CHANNEL MOUNTING BOLTS ARE %" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. C-CHANNEL MOUNTING BOLTS REQUIRE %" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX BOLTS.

BOLTS, NUTS, AND WASHERS SHALL CONFORM TO ASTM A307, A449, AND GALVANIZED PER STANDARD SPECIFICATION 614.

EXPOSED TIMBER SURFACES DUE TO FIELD CUTS SHALL BE TREATED WITH WOOD PRESERVATIVES PER STANDARD SPECIFICATION 504.2.3.

OVER TIGHTEN 21" HEAD BOLT TO COMPENSATE FOR FUTURE POST SHRINKAGE.

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SCONS

4-%" DIA. x 1%" ASTM A307 GUARDRAIL HEAD BOLTS W/ NUTS & WASHERS AT EACH POST. FIELD DRILL HOLES IN GUARDRAIL AND CHANNEL.

PRESSURE TREATED WOOD POST (6"x8" NOMINAL). CUT POST TO FINAL HEIGHT AFTER GUARDRAIL

4 MEER AARON B. PALMER PRO E-35695 RICHLAND CENTER, WI PANAL ED TTanon D Ya Vn 1-29-2018 B Addendum I D 5198-01-Added Shee LIST OF DRAWINGS 1. GENERAL PLAN 6 No. 0 NO. DATE REVISION BY 0 619 EAST HOXE STREET P.O. BOX 429 SPRING GREEN, W 53588 PHONE (608) 588-7856 FAX (608) 588-7954 WESTBROOK Associated Engineers, Inc. 8 STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION ACCEPTED William C. Duchen 05/02/18 CHIEF STRUCTURES DESIGN ENGINEER DATE STRUCTURE B-52-23 CTH 'Q' OVER FOX HOLLOW CREEK DAYTON RICHLAND BRIDGE OFFICE CONTACT WILLIAM DREHER, P.E. AASHTO LRFD BRIDGE DESIGN SPEC. DESIGNED CDS DESIGN ABP DRAWN LCS PLANS ABP (608) 266-8489 CONSULTANT CONTACT AARON PALMER, P.E. SHEET 1 OF 1 (608) 588-7866 GENERAL PLAN 61A I.D. 5198-01-60 PLOT DATE: Jon 19, 2018



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STATE PROJECT N	NUMBER
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5198-01-60

NOTES:

DETAILS SHOWN FOR POSTS, PLATES, ANCHORAGE SYSTEM AND INSTALLATION, BLOCKS, AND GUARD RAIL ARE NOT PART OF THE STRUCTURE CONTRACT, BUT AR BID PER THE ROADWAY DESIGN PLANS.

POST BASE PLATES AND BOTTOM PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

CUT BOTTOM OF POST SO THAT POST WILL BE VERTICAL WHEN POST ASSEMBLY IS PLACED ON TOP OF THE CULVERT, ALONG THE ROADWAY THE POST WILL BE NORMAL TO GRADE LINE. HEX BOLTS AND THREADED RODS ARE TO BE PLACED PERPENDICULAR TO THE BASE PLACE.

POSTS, BASE PLATES, BOTTOM PLATES, AND SHIMS SHALL BE GALVANIZED AFTER FABRICATION.

PRIOR TO GALVANIZING, ALL STEEL POSTS AND PLATES SHALL BE GIVEN A NO. 6 COMMERCIAL BLAST CLEANING BY SSPC SPECS.

ALL MATERIAL USED IN POSTS AND PLATES SHALL BE MADE FROM MATERIAL CONFORMING TO ASTM DESIGNATION A709 GRADE 50 OR 50S.

HEX BOLTS, TREADED RODS, HEX NUTS AND WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F1554 GRADE 36, AND SHALL BE GALVANIZED. RODS ARE TO BE FULLY THREADED AND BOLTS TO BE THREADED 3", CHAMFER TOP OF BOLTS AND RODS BEFORE THREADING.

STEEL SHIMS MAY BE USED BETWEEN PLATES AND SLAB WHERE REQUIRED FOR ALIGNMENT.

POST ANCHOR BOLTS SHALL BE PLACED A MINIMUM OF 4" HORIZONTALLY FROM BOX CULVERT WALLS.

FOR MORE INFORMATION ON LAYOUT SEE WISDOT SDD 14B51 "ANCHOR POST ASSEMBLY TOP MOUNT".

LIST OF DRAWINGS

1. GENERAL PLAN

BRIDGE OFFICE CONTACT WILLIAM DREHER, P.E. (608) 266-8489 CONSULTANT CONTACT AARON PALMER, P.E., (608) 588-7866

NO. DATE	REVISION		BY
	OOK eers, Inc.	AST HOXE S P.O. BOX 425 G GREEN, W E (608) 588- (608) 588-7	TREET 53588 -7866 7954
DEPAR	STATE OF WISCONSI	N RTATION 7	02/19
	AUCTURES DESIGN EN		MTE
CHIEF STR	OVER FOX HOLLO	GINEER E	MTE
CHIEF STR CHIEF STR CTH 'Q' COUNTY RICHLAI	OVER FOX HOLLO	GINEER E	
CHIEF STR CHIEF STR CTH 'Q' COUNTY RICHLAI DESIGN SPEC AASHTO LRFD BI	CTURE DESIGN EN CTURE B	GINEER E 52-26 W CREEK WELAGE DAYTON	MATE
CHIEF STR CHIEF STR CTH 'Q' COUNTY RICHLAI DESIGN SPEC. AASHTO LRFD BH DESIGN SPEC. AASHTO LRFD BH DESIGN SPEC.	OVER FOX HOLLO	GINEER E 52-26 W CREEK VAYTON C. C. PLANS OKD.	ABP
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DIRECTION OF TRAFFIC

I.D. 5198→01-60

PLOT DATE: Jan 18, 2018






















































Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

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