ORDER OF SHEETS

Section No. 1

Section No. 2

Section No. 3

Section No. 3

Section No. 5

Section No. 6

Section No. 8

TOTAL SHEETS = 62

DESIGN DESIGNATION

2034

CONVENTIONAL SYMBOLS

= N/A

= N/A

= N/A

= 70 MPF = N/A

A.A.D.T. 2014

A.A.D.T. 2034

DESIGN SPEED

D.H.V.

D.D.

Typical Sections and Details Estimate of Quantities

Miscellaneous Quantities

Standard Detail Drawings

Plan and Profile

Structure Plans

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

WOODED OR SHRUB AREA

	PROFILE
1	GRADE LINE
	ORIGINAL GROUND
_	MARSH OR ROCK PROFILE (To be noted as such)
_	SPECIAL DITCH
_	GRADE ELEVATION

CULVERT (Profile View)

UTILITIES ELECTRIC FIBER OPTIC SANITARY SEWER STORM SEWER TELEPHONE WATER

UTILITY PEDESTAL Ħ POWER POLE Ŀ TELEPHONE POLE

STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

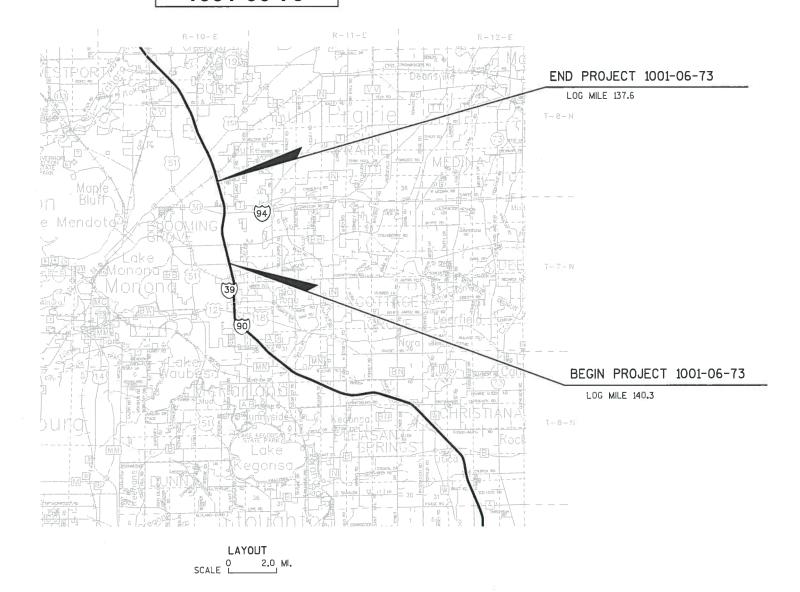
PLAN OF PROPOSED IMPROVEMENT

JANESVILLE - MADISON

(BUCKEYE ROAD TO LIEN ROAD)

IH 39/90 **DANE COUNTY**

> STATE PROJECT NUMBER 1001-06-73

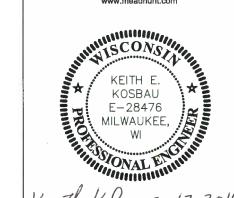


FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 1001-06-73 WISC 2013328 1

ORIGINAL PLANS PREPARED BY

Mead

Madison, WI 53719 608.273.6380 fax: 608.273.6391 www.meadhunt.com



STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

PREPARED BY

MEAD & HUNT, INC. MEAD & HUNT, INC.

Regional Supervisor WILLIAM STROBEL

C.O. Examiner

TOTAL NET LENGTH OF CENTERLINE = 00 MI.

"COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), 'DANE' COUNTY."

STANDARD ABBREVIATIONS

AGG AGGREGATE ASPHALTIC

ASPH

DHV

AVG AVERAGE AADT ANNUAL AVERAGE DAILY TRAFFIC BR BRIDGE

СТН COUNTY TRUNK HIGHWAY CY CLIBIC YARD DEGREE OF CURVE

DESIGN HOUR VOLUME

DIA DIAMETER EAT ENERGY ABSORBING TERMINAL

EAST Χ EAST GRID COORDINATE

EB EASTBOUND ELECTRIC (AL) ELEC EL FLEVATION

ESALS EQUIVALENT SINGLE AXLE LOADS EXC EXCAVATION

EBS EXCAVATION BELOW SUBGRADE GAS

LS LUMP SUM MGS MIDWEST GUARD RAIL SYSTEM

NORTH GRID COORDINATE

NB NORTHBOLIND ОН OVERHEAD PIPL PIPELINE

REINE REINFORCING OR REINFORCEMENT

REQD REQUIRED RT RIGHT R/W RIGHT-OF-WAY RD ROAD RDWY ROADWAY SALVAGED SALV

SSS SANITARY AND STORM SEWER SAN S SANITARY SEWER

SEC SECTION SB SOUTHBOUND

STANDARD DETAIL DRAWINGS SDD STA

TEL TELEPHONE TEMP TEMPORARY T or TN TOWN

TRUCKS (PERCENT OF) TYP TYPICAL UNDERGROUND UG VOL VOLUME WB WESTBOUND

UTILITY CONTACTS

* ALLIANT ENERGY

GAS, ELECTRIC ATTN: MARK SCHOEN 4902 N. BITTMORE LANE, SUITE 1000 MADISON, WI 53718

TELEPHONE: 608-877-1648 E-MAIL: MARKSCHOEN@ALLIANTENERGY.COM

ATC MANAGEMENT INC.

ELECTRIC ATTN: MIKE OLSEN 801 O'KEEFE ROAD DEPERE, WI 54115

TELEPHONE: 920-660-2390 / 920-660-2390 MOBILE

E-MAIL: MOLSEN@ATCLC.COM

X AT&T LEGACY

COMMUNICATION ATTN: CARL DONAHUE 866 ROCK CREEK ROAD PLANO, IL 60545 TELEPHONE: 847-420-9115 E-MAIL: CD8729@ATT.COM

X AT&T WISCONSIN

COMMUNICATION ATTN: CAROL ANDERSON 316 WEST WASHINGTON AVENUE MADISON, WI 53703 TELEPHONE: 608-252-2385 E-MAIL: CA24@ATT.COM

CITY OF MADISON WATER UTILITY

WATER & SEWER ATTN: DENNIS CRAWLEY 119 EAST OLIN AVENUE MADISON, WI 53713 TELEPHONE: 608-266-4651 E-MAIL: D.CRAWLEY@CITYOFMADISON.COM * FRONTIER COMMUNICATIONS OF WI, LLC

COMMUNICATION ATTN: DANA GILLETT 100 COMMUNICATIONS DRIVE SUN PRAIRIE, WI 53590 TELEPHONE: 608-837-1605 / 608-512-2389 MOBILE E-MAIL: DANA.GILLETTE@FTR.COM

* KOCHS PIPELINE LP

GAS ATTN: DREW SUYDAM N4240 HWY 26 WAUPUN, WI 53963 TELEPHONE: 920-948-4665 E-MAIL: DREW.SUYDAM@KOCHPIPELINE.COM

imes madison gas & electric

GAS AND ELECTRIC ATTN: TIM STATZ PO BOX 1231 MADISON, WI 53701-1231 TELEPHONE: 608-252-4727 E-MAIL: TSTATZ@MGE.COM

MADISON METROPOLITAN SEWERAGE DISTRICT

SEWER ATTN: ROB PHILLIPS 210 MARTIN LUTHER KING JR. BLVD.

MADISON, WI 53703 TELEPHONE: 608-266-4751

F-MAIL: RPHILLIPS@CITY OF MADISON.COM

McLEOD USA TELECOMMUNICATIONS SERVICES, INC.

COMMUNICATION ATTN: JOHN LOUIS 1858 WRIGHT STREET MADISON, WI 53704 TELEPHONE: 262-792-7218 E-MAIL: JOHN.LOUIS@WINDSTREAM.COM

WISCONSIN DEPT. OF TRANSPORTATION

COMMUNICATIONS ATTN: JEFFERY MADSON 433 WEST ST. PAUL AVENUE, SUITE 300 MILWALIKEE, WI 53203 TELEPHONE: 414-225-3723 E-MAIL: JEFFREY.MADSON@DOT.WI.GOV

GENERAL NOTES:

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY. EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS. ARE TO BE SEEDED AND FERTILIZED AS DIRECTED BY THE ENGINEER.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE, THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

EROSION CONTROL IS SHOWN ON THE CONSTRUCTION DETAIL AND IN THE SUMMARY OF MISCELLANEOUS QUANTITIES.

BACKFILL ALL HOLES REMAINING DUE TO GUARDRAIL POST REMOVAL WITH BASE AGGREGATE DENSE 3/4-INCH.

GRADING IS INCLUDED IN THE BID ITEM "BARRIER SYSTEM GRADING SHAPING FINISHING", PERFORM GRADING AS NECESSARY TO MAINTAIN THE EXISTING DRAINAGE.

GUARDRAIL POST LOCATIONS SHOWN IN THE PLANS ARE FOR ILLUSTRATIVE PURPOSES ONLY. FOR ACTUAL INSTALLATION LOCATIONS AND CONSTRUCTION DETAILS SEE THE STANDARD DETAIL DRAWINGS.

THE LOCATION OF THE EXISTING ASPHALTIC CURB ARE APPROXIMATE, FIELD VERIFY THE LOCATIONS OF ASPHALTIC CURB AND REPLACE AREAS OF DAMAGED CURB THE THE LIMITS DIRECTED BY THE ENGINEER.

THE LOCATIONS OF THE EXISTING ASPHALTIC FLUMES ARE APPROXIMATE, FIELD VERIFY THE LOCATIONS OF THE EXISTING FLUMES. THE LOCATIONS OF THE EXISTING FLUMES MAY REQUIRE ADJUSTMENT TO AVOID THE NEW BEAMGUARD POST SPACING, ALTERNATE POST SPACING MAY ALSO BE USED AS APPROVED BY THE ENGINEER.

* DENOTES DIGGERS HOTLINE MEMBER



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

DNR LIAISON

CONSULTANT CONTACT MEAD & HUNT, INC. 6501 WATTS ROAD MADISON, WI 53719-2700

ATTN: MR. KFITH KOSBAU, P.F. TELEPHONE: 608-273-6380 E-MAIL: KEITH.KOSBAU@MEADHUNT.COM DEPARTMENT OF NATURAL RESOURCES SOUTH CENTRAL DISTRICT 3911 SOUTH FISH HATCHERY ROAD FITCHBURG. WI 53711

ATTN: MR. ERIC HEGGELUND TELEPHONE: 608-275-3301 F-MAIL: FRIC.HEGGELLIND@WISCONSIN.GOV

SHEET

PROJECT NO: 1001-06-73

HWY: IH 39/90

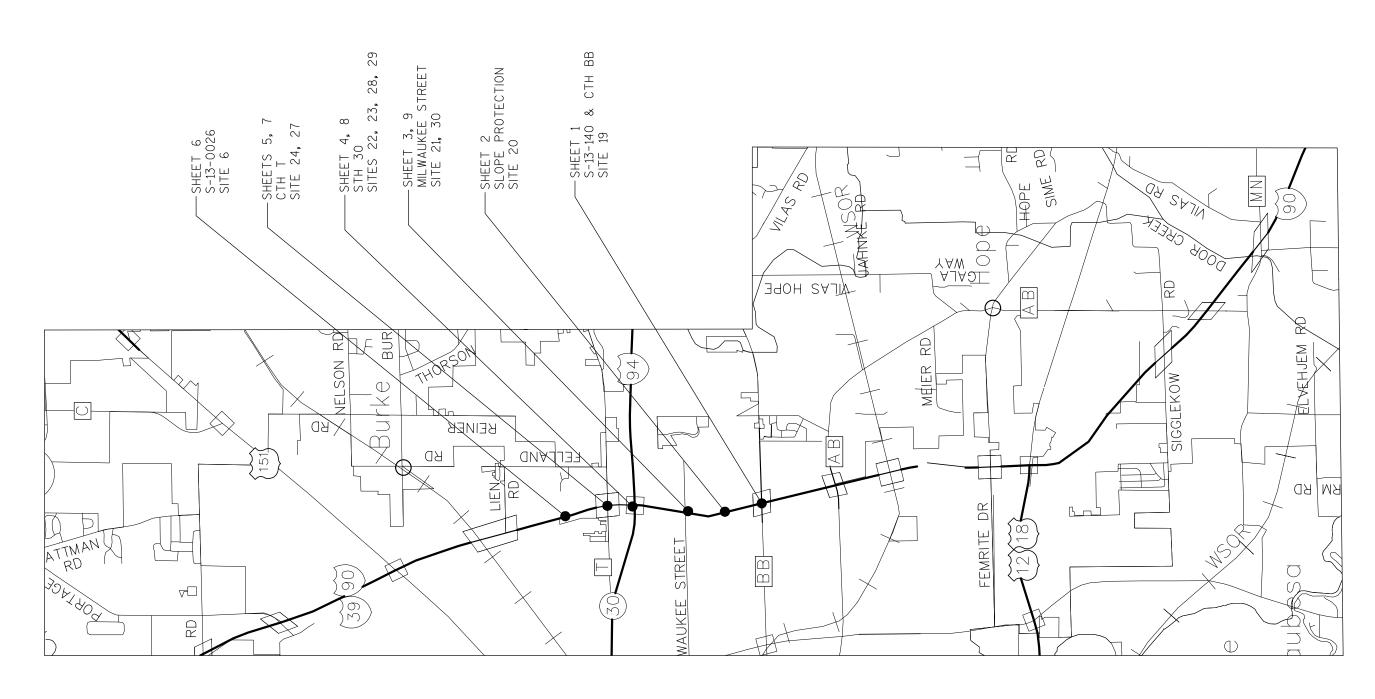
COUNTY: DANE

GENERAL NOTES

PLOT BY : DAVID YAHNKE

Ε





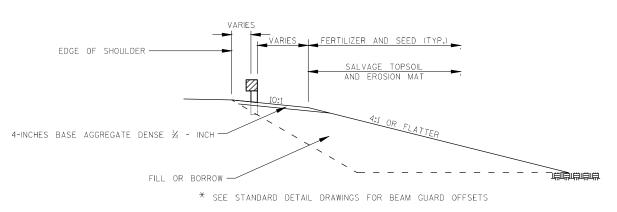
COUNTY: DANE PROJECT NO:1001-06-73 HWY:IH 39/90 PROJECT OVERVIEW SHEET Ε

SITE NO.	SHEET	LOG MILE	LOCATION DESCRIPTION	STRUCTURE	COUNTER MEASURE
19	1	139.8	NB RT, UNDER CTH BB-APPROACH	B-13-0112	INTEGRAL WALL, MGS THRIE BEAM TRANSITION, MGS BEAMGUARD 3, MGS GUARDRAIL TERMINAL EAT
20	2	139.5	NB RT, SLOPE PROTECTION-APPROACH	N/A	MGS BEAMGUARD 3, MGS GUARDRAIL TERMINAL EAT
21	2	138.8	NB LT, UNDER MILWUAKEE STREET-APPROACH	B-13-0131	MGS THRIE BEAM TRANSITION, MGS BEAMGUARD 3, MGS GUARDRAIL TERMINAL EAT
21	3	130.0	NB RT, UNDER MILWUAKEE STREET-APPROACH	B-13-0131	MGS THRIE BEAM TRANSITION, MGS BEAMGUARD 3, MGS GUARDRAIL TERMINAL EAT
22	4	138.5	NB LT, OVER STH 30 EB-APPROACH	D 42 0200	MGS THRIE BEAM TRANSITION, MGS BEAMGUARD 3, MGS GUARDRAIL TERMINAL EAT
22	4	138.5	NB RT, OVER STH 30 EB-APPROACH	B-13-0309	MGS THRIE BEAM TRANSITION, MGS BEAMGUARD 3, MGS GUARDRAIL TERMINAL EAT
23	4	110	NB LT, OVER STH 30 WB-APPROACH	D 42 0200	MGS THRIE BEAM TRANSITION, MGS BEAMGUARD 3, MGS GUARDRAIL TERMINAL EAT & PERMANENT CRASH CUSHION
23	23 4 140 NB RT, OVER STH 30 WB-APPROACH		NB RT, OVER STH 30 WB-APPROACH	B-13-0308	MGS THRIE BEAM TRANSITION, MGS BEAMGUARD 3, MGS GUARDRAIL TERMINAL EAT
24	5	138.1	NB RT, ENTRANCE RAMP FROM IH 94 OVER CTH T-APPROACH	B-39-0289	MGS THRIE BEAM TRANSITION, MGS BEAMGUARD 3, MGS GUARDRAIL TERMINAL EAT
26	6	137.9	SB RT, SIGN BRIDGE-APPROACH EXIT 138A	S-13-0026	MGS BEAMGUARD 3, MGS GUARDRAIL TERMINAL EAT
20	0	137.9	SB LT, SIGN BRIDGE-APPROACH EXIT 138A	5-13-0026	MGS BEAMGUARD 3, MGS GUARDRAIL TERMINAL EAT
27	7	138.1	SB RT, IH 39 OVER CTH T	B-13-0448	MGS THRIE BEAM TRANSITION, MGS BEAMGUARD 3, MGS GUARDRAIL TERMINAL EAT
21	,	130.1	SB LT, IH 39 OVER CTH T	D-13-0440	MGS THRIE BEAM TRANSITION, MGS BEAMGUARD 3, MGS GUARDRAIL TERMINAL EAT
28	Ω	140	SB RT, IH-39 OVER STH 30 WB	B-13-0307	MGS THRIE BEAM TRANSITION, MGS BEAMGUARD 3, MGS GUARDRAIL TERMINAL EAT
20		140	SB LT, IH-39 OVER STH 30 WB	D-13-0307	MGS THRIE BEAM TRANSITION, MGS BEAMGUARD 3, MGS GUARDRAIL TERMINAL EAT
29		138.5	SB RT, IH-39 OVER STH 30 EB	B-13-0334	MGS THRIE BEAM TRANSITION, MGS BEAMGUARD 3, MGS GUARDRAIL TERMINAL EAT
	0	130.3	SB LT, IH-39 OVER STH 30 EB	D-13-0334	MGS THRIE BEAM TRANSITION, MGS BEAMGUARD 3, MGS GUARDRAIL TERMINAL EAT
30	0	138.7	SB RT, MILWAUKEE ST OVER IH-39	B-13-0477	INTEGRAL WALL, MGS THRIE BEAM TRANSITION, MGS BEAMGUARD 3, MGS GUARDRAIL TERMINAL EAT
30	9	130.7	SB LT, MILWAUKEE ST OVER IH-39	D-13-04//	INTEGRAL WALL, MGS THRIE BEAM TRANSITION, MGS BEAMGUARD 3, MGS GUARDRAIL TERMINAL EAT

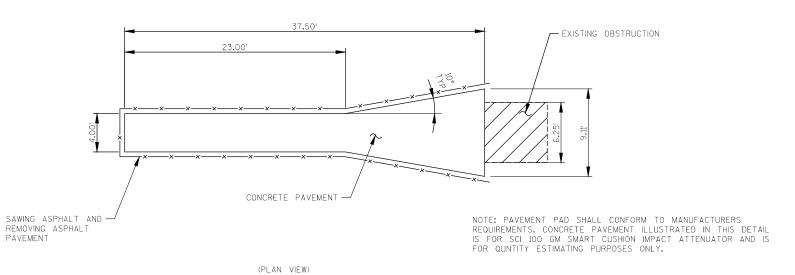
NOTE: THE SITE NUMBERS ARE NOT NUMBERED CONSECUTIVELY. SITE NUMBERS 1- 18 AND 25 ARE NOT USED ON THE PROJECT.

COUNTY: DANE PROJECT NO:1001-06-73 PROJECT OVERVIEW SHEET ____| E HWY: IH 39/90 PLOT BY : DAVID YAHNKE PLOT DATE: 9/3/2008 9:36 AM PLOT NAME : _____PLOT SCALE : 1 IN:100 FT

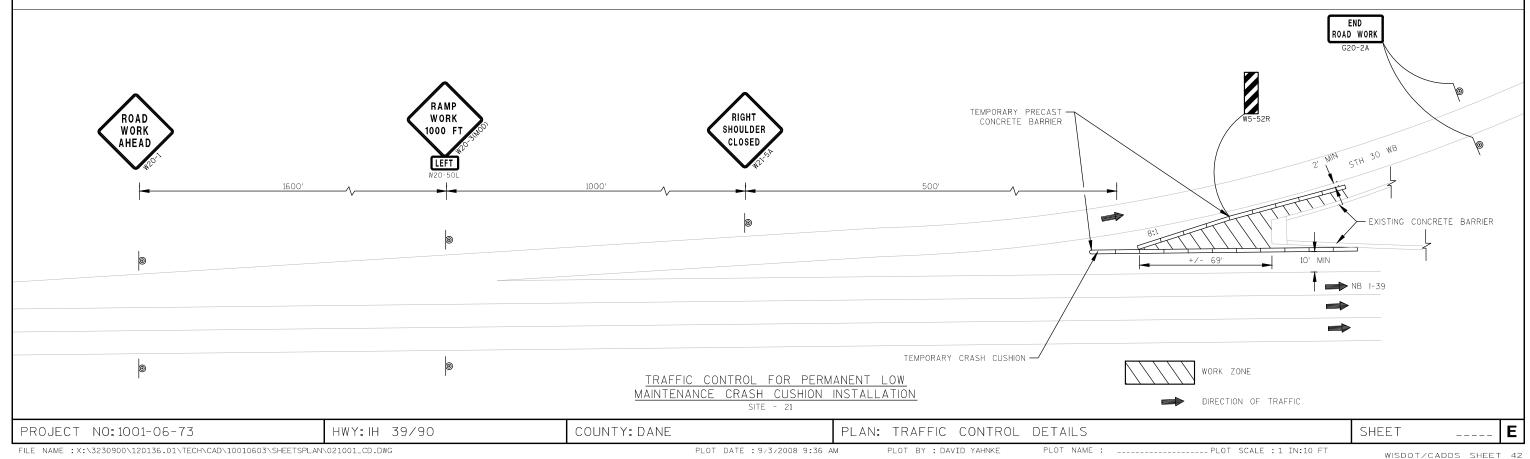
WISDOT/CADDS SHEET 42

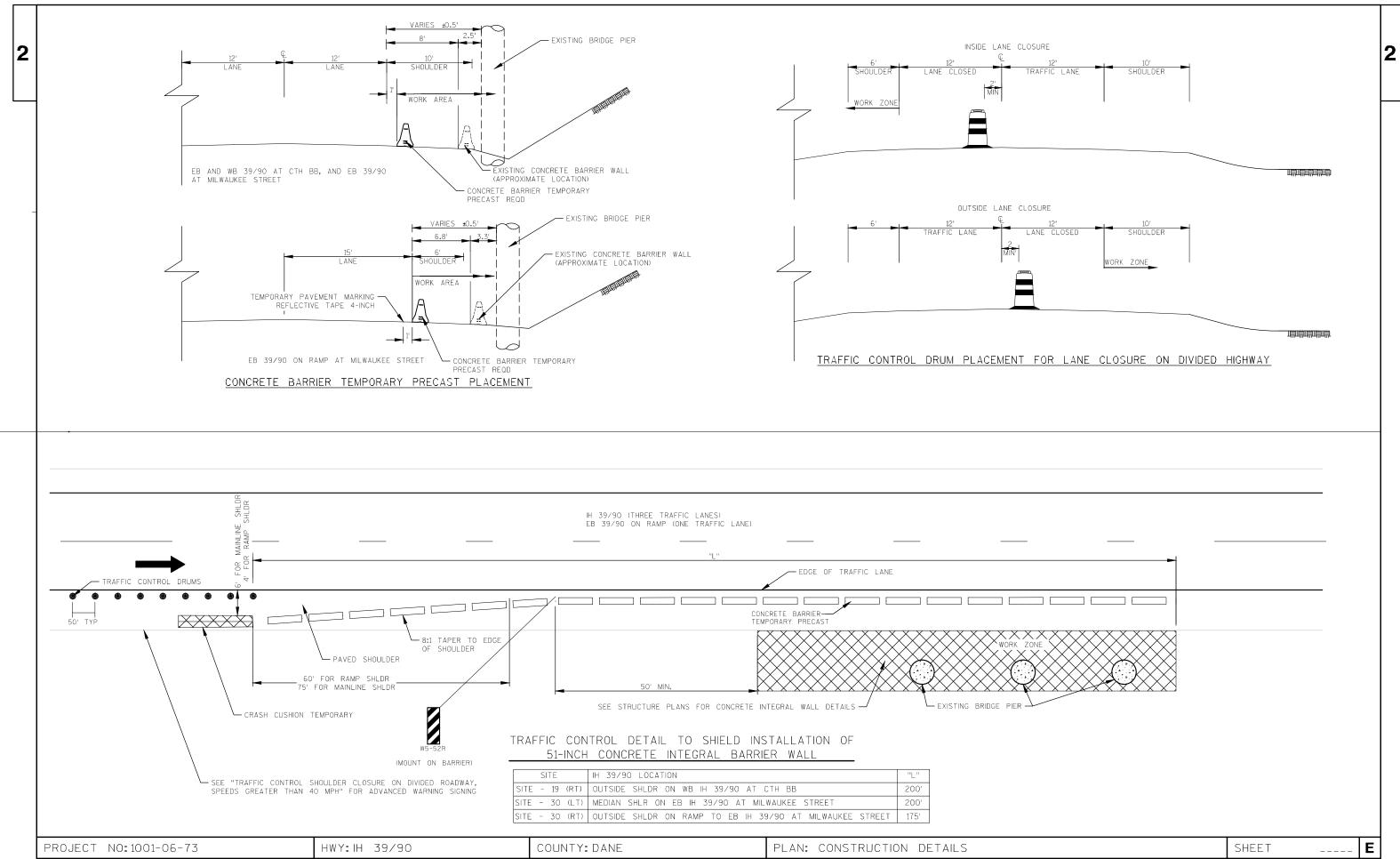


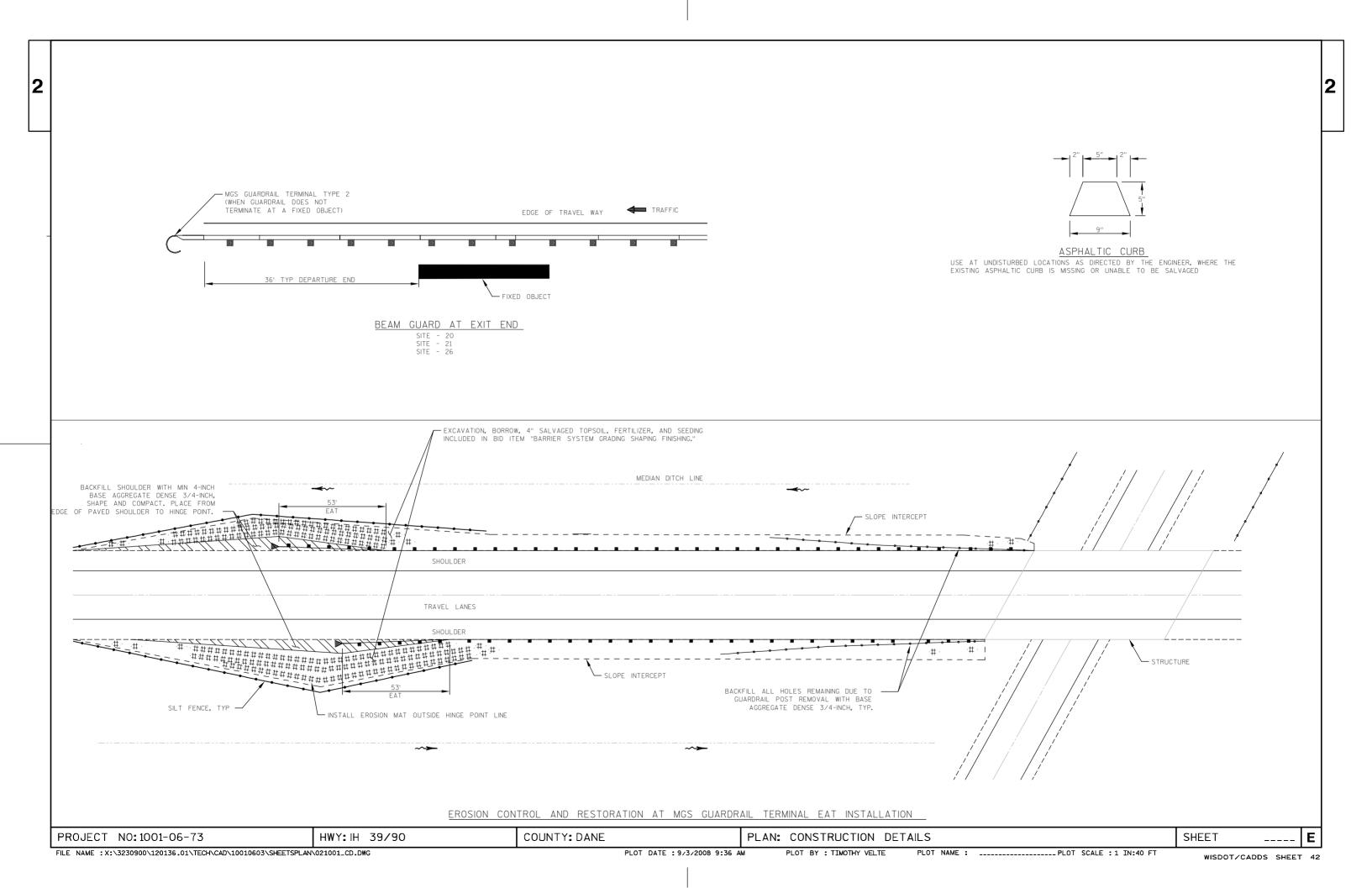
TYPICAL WIDENING AT END TREATMENTS



CONCRETE PAVEMENT FOR PERMANENT LOW MAINTENANCE CRASH CUSHION INSTALLATION SITE - 21







DATE 01 LINE	APR14	EST	IMAT	E OF QUAN	TITIES 1001-06-73
NUMBER		ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY
0010 0020	204. 0110 204. 0157	REMOVING ASPHALTIC SURFACE REMOVING CONCRETE BARRIER	SY LF	20. 000 225. 000	20. 000 225. 000
0020	213. 0100	FINISHING ROADWAY (PROJECT) 01.	EACH	1. 000	1. 000
		1101-06-73			
0040	305. 0110	BASE AGGREGATE DENSE 3/4-INCH	TON	360.000	360.000
0050	305. 0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	115. 000	115. 000
0060	312. 0110	SELECT CRUSHED MATERIAL	TON	80.000	80.000
0070	465. 0105	ASPHALTIC SURFACE	TON	70.000	70.000
0800	465. 0310	ASPHALTIC CURB ASPHALTIC FLUMES	LF cv	210. 000	210.000
0090 0100	465. 0315 603. 8000	CONCRETE BARRIER TEMPORARY PRECAST	SY LF	30. 000 825. 000	30. 000 825. 000
0100	000.0000	DELI VERED		020. 000	020.000
0110	603. 8125	CONCRETE BARRIER TEMPORARY PRECAST INSTALLED	LF	825. 000	825. 000
0120	614. 0010	BARRIER SYSTEM GRADING SHAPING FINISHING	EACH	19. 000	19. 000
0130	614. 0805	CRASH CUSHIONS PERMANENT LOW MAINTENANCE	EACH	1. 000	1. 000
0140	614. 0905	CRASH CUSHIONS TEMPORARY	EACH	4.000	4. 000
0150	614. 0920	SALVAGED RAIL	LF	7, 650. 000	7, 650. 000
0160	614. 0925	SALVAGED GUARDRAIL END TREATMENTS	EACH	22. 000	22. 000
0170	614. 0935	SALVAGED SAND BARRELS	EACH	39.000	39. 000
0180	614. 2300	MGS GUARDRAIL 3	LF	6, 200. 000	6, 200. 000
0190	614. 2310	MGS GUARDRALL 3 HS	LF	150. 000 27. 500	150. 000 27. 500
0200	614. 2320	MGS GUARDRAIL 3 QS	LF	37. 500	37. 500
0210	614. 2500	MGS THRIE BEAM TRANSITION	LF	591. 000	591. 000
0220	614. 2610	MGS GUARDRAIL TERMINAL EAT	EACH	19. 000	19.000
0230	614. 2620	MGS GUARDRAIL TERMINAL TYPE 2	EACH	4. 000	4. 000
0240 0250	619. 1000 628. 1504	MOBILIZATION SILT FENCE	EACH LF	1. 000 3, 800. 000	1. 000 3, 800. 000
0230	020. 1304	JILI I LINGE	LF	3, 600. 000	3, 000. 000
0260	628. 1520	SILT FENCE MAINTENANCE	LF	3, 800. 000	3, 800. 000
0270	628. 1905	MOBILIZATIONS EROSION CONTROL	EACH	3.000	3.000
0280	628. 1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	3.000	3.000
0290 0300	628. 2004 633. 0500	EROSION MAT CLASS I TYPE B DELINEATOR REFLECTORS	SY EACH	4, 600. 000 9. 000	4, 600. 000 9. 000
		DELINEATOR RELECTORS	LACII	7. 000	9 . 000
0310	633. 1000	DELINEATOR BRACKETS	EACH	9. 000	9. 000
0320	642. 5001	FIELD OFFICE TYPE B	EACH	1.000	1.000
0330	643. 0200	TRAFFIC CONTROL SURVEILLANCE AND MAINTENANCE (PROJECT) 01. 1001-06-73	DAY	42. 000	42. 000
0340	643. 0300	TRAFFIC CONTROL DRUMS	DAY	4, 148. 000	4, 148. 000
0350	643. 0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	DAY	915. 000	915. 000
02/0	(42,0000	TRAFFI C. CONTROL APPOW POARRO	DAY	117 000	117 000
0360 0370	643. 0800 643. 0900	TRAFFIC CONTROL ARROW BOARDS TRAFFIC CONTROL SIGNS	DAY DAY	117. 000 724. 000	117. 000 724. 000
0370	643. 1050	TRAFFIC CONTROL SIGNS TRAFFIC CONTROL SIGNS PCMS	DAY	252. 000	252. 000
0390	649. 0300	TEMPORARY PAVEMENT MARKING REFLECTIVE	LF	200. 000	200. 000
		TAPE 4-INCH			
0400	690. 0150	SAWING ASPHALT	LF	320. 000	320. 000
0410	ASP. 1TOA	ON-THE-JOB TRAINING APPRENTICE AT \$5.	HRS	200.000	200. 000
00		00/HR		200.000	200.000
0420	ASP. 1TOG	ON-THE-JOB TRAINING GRADUATE AT \$5.00/HR	HRS	300.000	300.000
0430	SPV. 0090	SPECIAL 01. 51-INCH CONCRETE INTEGRAL	LF	178. 000	178. 000
		BARRI ER			

REMOVALS		
	204.0110	204.0157
	REMOVING	REMOVING
	ASPHALTIC	CONCRETE
	SURFACE	BARRIER
LOCATION	(SY)	(LF)
SITE 19 (RT) OUTSIDE APPROACH SITE 21 GORE SITE 30 (RT) OUTSIDE APPROACH	20	119 53
SITE 30 (LT) MEDIAN APPROACH		53
TOTAL	20	225

ASPHALTIC ITEMS		
	465.0105	465.0310
	ASPHALTIC	ASPHALTIC
	SURFACE	CURB
LOCATION	(TON)	(LF)
SITE 19 (RT) OUTSIDE APPROACH	26	
SITE 30 (LT) MEDIAN APPROACH	22	
SITE 30 (RT) OUTSIDE APPROACH	22	
UNDISTRIBUTED		210
TOTAL	70	210

ASPHALTIC	FLUMES	
		465.0315
		ASPHALTIC
		FLUMES
	LOCATION	(SY)
	UNDISTRIBUTED	30
TOTAL		30

FINISHING ROADWAY

	213.0100
	FINISHING
	ROADWAY
LOCATION	(EACH)
PROJECT 1001-06-73	1
TOTAL	1

BASE AGGREGATE

	305.0110	305.0120	312.0110
	BASE	BASE	SELECT
	AGGREGATE	AGGREGATE	CRUSHED
		DENSE 1 1/4-INCH	MATERIAL
LOCATION	(TON)	(TON)	(TON)
	(- /	(- /	(-)
SITE 19 (RT) OUTSIDE APPROACH	21	73	30
SITE 20 (RT) OUTSIDE APPROACH	28		
SITE 21 (LT) MEDIAN APPROACH	23		
SITE 21 (RT) OUTSIDE APPROACH	21		
SITE 22 (LT) MEDIAN APPROACH	18		
SITE 22 (RT) OUTSIDE APPROACH	18		
SITE 23 (LT) MEDIAN APPROACH	18		
SITE 23 (RT) OUTSIDE APPROACH	18		
SITE 24 (RT) OUTSIDE APPROACH	26		
SITE 26 (LT) MEDIAN APPROACH	14		
SITE 26 (RT) OUTSIDE APPROACH	14		
SITE 27 (LT) MEDIAN APPROACH	18		
SITE 27 (RT) OUTSIDE APPROACH	18		
SITE 28 (LT) MEDIAN APPROACH	18		
SITE 28 (RT) OUTSIDE APPROACH	18		
SITE 29 (LT) MEDIAN APPROACH	18		
SITE 29 (RT) OUTSIDE APPROACH	18		
SITE 30 (LT) MEDIAN APPROACH	15	21	25
SITE 30 (RT) OUTSIDE APPROACH	18	21	25
TOTAL	360	115	80

NOTE: BASE AGGREGATE DENSE 1 1/4-INCH INCLUDES MATERIAL TO RESTORE THE GRADE IN THE AREAS OF REMOVED CONCRETE BARRIER. BASE AGGREGATE DENSE 3/4-INCH INCLUDES MATERIAL TO BACK FILL THE REMOVED POST HOLES.

BARRIER SYSTEM GRADING SHAPING FINISHING

		614.0010		FOR INFOR	MATIONAL PU	RPOSES ON	JLY
		BARRIER SYSTEM				SEEDING	
		GRADING SHAPING		SALVAGED	FERTILIZER	MIXTURE	SEEDING
	SITE	FINISHING	BORROW	TOPSOIL	TYPE B	NO. 70	TEMPORARY
LOCATION	CAT.	(EACH)	(CY)	(SY)	(CWT)	(LB)	(LB)
SITE 19 (RT) OUTSIDE APPROAC		1	200	500	0.3	2	14
SITE 20 (RT) OUTSIDE APPROAC	H SF	1	100	175	0.1	1	5
SITE 21 (LT) MEDIAN APPROACH	H SF	1	100	175	0.1	1	5
SITE 21 (RT) OUTSIDE APPROAC		1	100	175	0.1	1	5
SITE 22 (LT) MEDIAN APPROACH	H SF	1	100	175	0.1	1	5
SITE 22 (RT) OUTSIDE APPROAC	H MF	1	200	500	0.3	2	14
SITE 23 (LT) MEDIAN APPROACH	H SF	1	100	175	0.1	1.5	5
SITE 23 (RT) OUTSIDE APPROAC	H SF	1	100	175	0.1	1.5	5
SITE 24 (RT) OUTSIDE APPROAC	H MF	1	200	500	0.3	2	14
SITE 26 (LT) MEDIAN APPROACH	H SF	1	100	175	0.1	1	5
SITE 26 (RT) OUTSIDE APPROAC	H SF	1	100	175	0.1	1	5
SITE 27 (LT) MEDIAN APPROACH	H SF	1	100	175	0.1	1	5
SITE 27 (RT) OUTSIDE APPROAC	H MF	1	200	500	0.3	2	14
SITE 28 (LT) MEDIAN APPROACH	H SF	1	100	175	0.1	1	5
SITE 28 (RT) OUTSIDE APPROAC	H SF	1	100	175	0.1	1	5
SITE 29 (LT) MEDIAN APPROACH	H SF	1	100	175	0.1	1.5	5
SITE 29 (RT) OUTSIDE APPROAC	H SF	1	100	175	0.1	1.5	5
SITE 30 (LT) MEDIAN APPROACH	H SF	1	50	150	0.1	1	4
SITE 30 (RT) OUTSIDE APPROAC	H SF	1	100	175	0.1	1	5
TOTAL		19	2250	4600	2.7	25	130

NOTE: DETAILED SURFACE ELEVATION INFORMATION WAS UNAVAILABLE FOR THESE SITE LOCATIONS. THE QUANTITIES FOR GRADING, SHAPING AND FINISHING ITEMS WERE ESTIMATED BY COMPARING THESE SITES TO SIMILAR LOCATIONS WHERE SURFACE INFORMATION WAS AVAILABLE. THE SITES WERE CATEGORIZED FOR ESTIMATING PURPOSES AS FOLLOWS:

SF: SMALL FILL (<150 CY)
MF: MEDIUM FILL (<300 CY)

PROJECT NO: 1001-06-73 HWY: IH 39/90 COUNTY: DANE MISCELLANEOUS QUANTITIES SHEET **E**

FILE NAME: PLOT DATE: 2/25/2014 2:06 PM PLOT BY: PLOT NAME: PLOT SCALE : 100.0 :1.0

	614.0920	614.0925	614.0935	614.2300	614.2310	614.2320	614.2500	614.2610	614.2620
		SALVAGED GUARDRAIL	SALVAGED		MGS	MGS	MGS THRIE	MGS GUARDRAIL	MGS GUARDRAIL
	CALVACED			MOC					
	SALVAGED	END	SAND	MGS	GUARDRAIL	GUARDRAIL	BEAM	TERMINAL	TERMINAL
LOGATION	RAIL	TREATMENTS	_	GUARDRAIL 3	3 HS	3 QS	TRANSITION	EAT	TYPE 2
LOCATION	(LF)	(EACH)	(EACH)	(LF)	(LF)	(LF)	(LF)	(EACH)	(EACH)
SITE 19 (RT) OUTSIDE APPROACH	550			550			39.4	1	
SITE 20 (RT) OUTSIDE APPROACH	950	2		887.5				1	1
SITE 21 (LT) MEDIAN APPROACH	650	2	39	462.5	50	12.5		1	1
SITE 21 (RT) OUTSIDE APPROACH	500	1		350			39.4	1	
SITE 22 (LT) MEDIAN APPROACH	375	1		287.5			39.4	1	
SITE 22 (RT) OUTSIDE APPROACH	325	1		237.5			39.4	1	
SITE 23 (LT) MEDIAN APPROACH	375	1		287.5			39.4	1	
SITE 23 (RT) OUTSIDE APPROACH	325	1		237.5			39.4	1	
SITE 24 (RT) OUTSIDE APPROACH	825	1		725			39.4	1	
SITE 26 (LT) MEDIAN APPROACH	125	2		225				1	1
SITE 26 (RT) OUTSIDE APPROACH	125	2		225				1	1
SITE 27 (LT) MEDIAN APPROACH	375	1		225	50	12.5	39.4	1	
SITE 27 (RT) OUTSIDE APPROACH	375	1		225	50	12.5	39.4	1	
SITE 28 (LT) MEDIAN APPROACH	375	1		287.5			39.4	1	
SITE 28 (RT) OUTSIDE APPROACH	325	1		237.5			39.4	1	
SITE 29 (LT) MEDIAN APPROACH	325	1		237.5			39.4	1	
SITE 29 (RT) OUTSIDE APPROACH	325	1		237.5			39.4	1	
SITE 30 (LT) MEDIAN APPROACH	150	1		175			39.4	1	
SITE 30 (RT) OUTSIDE APPROACH	275	1		100			39.4	1	
TOTAL	7650	22	39	6200	150	37.5	591	19	4

EROSION CONTROL ITEMS

PROJECT NO: 1001-06-73

	628.1504	628.1520	628.1905	628.1910	628.2004
				MOBILIZATIONS	EROSION
			MOBILIZATIONS	EMERGENCY	MAT
		SILT FENCE	EROSION	EROSION	CLASS I
	SILT FENCE	MAINTENANCE	CONTROL	CONTROL	TYPE B
LOCATION	(LF)	(LF)	(EACH)	(EACH)	(SY)
SITE 19 (RT) OUTSIDE APPROACH	200	200			500
SITE 20 (RT) OUTSIDE APPROACH	200	200			175
SITE 21 (LT) MEDIAN APPROACH	200	200			175
SITE 21 (RT) OUTSIDE APPROACH	200	200			175
SITE 22 (LT) MEDIAN APPROACH	200	200			175
SITE 22 (RT) OUTSIDE APPROACH	200	200			500
SITE 23 (LT) MEDIAN APPROACH	200	200			175
SITE 23 (RT) OUTSIDE APPROACH	200	200			175
SITE 24 (RT) OUTSIDE APPROACH	200	200			500
SITE 26 (LT) MEDIAN APPROACH	200	200			175
SITE 26 (RT) OUTSIDE APPROACH	200	200			175
SITE 27 (LT) MEDIAN APPROACH	200	200			175
SITE 27 (RT) OUTSIDE APPROACH	200	200			500
SITE 28 (LT) MEDIAN APPROACH	200	200			175
SITE 28 (RT) OUTSIDE APPROACH	200	200			175
SITE 29 (LT) MEDIAN APPROACH	200	200			175
SITE 29 (RT) OUTSIDE APPROACH	200	200			175
SITE 30 (LT) MEDIAN APPROACH	200	200			150
SITE 30 (RT) OUTSIDE APPROACH	200	200			175
UNDISTRIBUTED			3	3	
TOTAL	3800	3800	3	3	4600

HWY: IH 39/90

CRASH CUSHIONS

	LOCATION	CRASH CUSHIONS PERMANENT LOW MAINTENANCE (EA)	CRASH CUSHIONS TEMPORARY (EA)
SITE 19 (RT)	OUTSIDE APPROACH	1	1
*SITE 21 (LT)	GORE	1	1
SITE 30 (RT)	OUTSIDE APPROACH	1	1
SITE 30 (LT)	MEDIAN APPROACH		1
TOTAL		1	4

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614.0905

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SHEET

*NOTE: FOR GORE INSTALLATION USE OBJECT MARKING PATTERN OM-3C. CRASH TEST CONDITION TL-3. WIDTH REQUIREMENTS, DESIRABLE AND (MINIMUM) SHOWN IN PARENTHSIS; N=12' (6'), L=55' (28'), F=4' (2')

CONCRETE BARRIER TEMPORARY PRECAST

	603.8000	603.8125
	DELIVERED	INSTALLED
LOCATION	(LF)	(LF)
SITE 19 (RT) OUTSIDE APPROACH	200	200
SITE 21 (LT) GORE	250	250
SITE 30 (LT) MEDIAN APPROACH	200	200
SITE 30 (RT) OUTSIDE APPROACH	175	175
TOTAL	825	825

PAVEMENT MARKING

MISCELLANEOUS QUANTITIES

	649.0300
	TEMPORARY PAVEMENT MARKING
	REFLECTIVE TAPE 4-INCH
	WHITE
LOCATION	(LF)
SITE 30 (RT) OUTSIDE APPROACH	200
TOTAL	200

FILE NAME: PLOT DATE: 2/25/2014 2:06 PM PLOT BY: PLOT NAME: PLOT SCALE : 100.0 :1.0

COUNTY: DANE

TRAFF	IC (CON	ITROL

		643.0200		643.0300		643.0715		643.0800		643.0900		643.1050
		-		DRUMS		WARNING LIGHTS TYPE C		ARROW BOARDS	1	SIGNS		SIGNS PCMS
LOCATION	SITE DURATION CALENDAR DAYS	SURVEILLANCE AND MAINTENANCE (PROJECT) (EACH)	NO. OF DEVICES IN SERVICE	PAY QUANTITY (DAYS)	NO. OF DEVICES IN SERVICE	PAY QUANTITY (DAYS)	NO. OF DEVICES IN SERVICE	PAY QUANTITY (DAYS)	NO. OF DEVICES IN SERVICE	PAY QUANTITY (DAYS)	NO. OF DEVICES IN SERVICE	PAY QUANTITY (DAYS)
SITE 19 (RT) OUTSIDE APPROACH	15		82	1230	16	240	2	30	9	135		
SITE 20 (RT) OUTSIDE APPROACH	3		94	282	16	48	2	6	8	24		
SITE 21 (LT) MEDIAN APPROACH	3		86	258	21	63	2	6	8	24		
SITE 21 (RT) OUTSIDE APPROACH	1		74	74	21	21	2	2	8	8		
SITE 21 GORE	10		20		20				9	90		
SITE 22 (LT) MEDIAN APPROACH	1		70	70	16	16	2	2	8	8		
SITE 22 (RT) OUTSIDE APPROACH	1		86	86	21	21	2	2	9	9		
SITE 23 (LT) MEDIAN APPROACH	1		40	40	5	5	1	1	6	6		
SITE 23 (RT) OUTSIDE APPROACH	1		66	66	16	16	2	2	8	8		
SITE 24 (RT) OUTSIDE APPROACH	3		86	258	16	48	2	6	8	24		
SITE 26 (LT) MEDIAN APPROACH	1		66	66	16	16	2	2	8	8		
SITE 26 (RT) OUTSIDE APPROACH	1		66	66	16	16	2	2	8	8		
SITE 27 (LT) MEDIAN APPROACH	1		70	70	16	16	2	2	9	9		
SITE 27 (RT) OUTSIDE APPROACH	1		122	122	21	21	2	2	9	9		
SITE 28 (LT) MEDIAN APPROACH	1		70	70	16	16	2	2	8	8		
SITE 28 (RT) OUTSIDE APPROACH	1		70	70	16	16	2	2	8	8		
SITE 29 (LT) MEDIAN APPROACH	1		35	35	5	5	1	1	6	6		
SITE 29 (RT) OUTSIDE APPROACH	1		70	70	16	16	2	2	8	8		
SITE 30 (LT) MEDIAN APPROACH	15		46	690	16	240	2	30	9	135		
SITE 30 (RT) OUTSIDE APPROACH	15		35	525	5	75	1	15	7	105		•
PROJECT	42	42							2	84	6	252
TOTAL		42		4148		915		117	· · · · · · · · · · · · · · · · · · ·	724		252

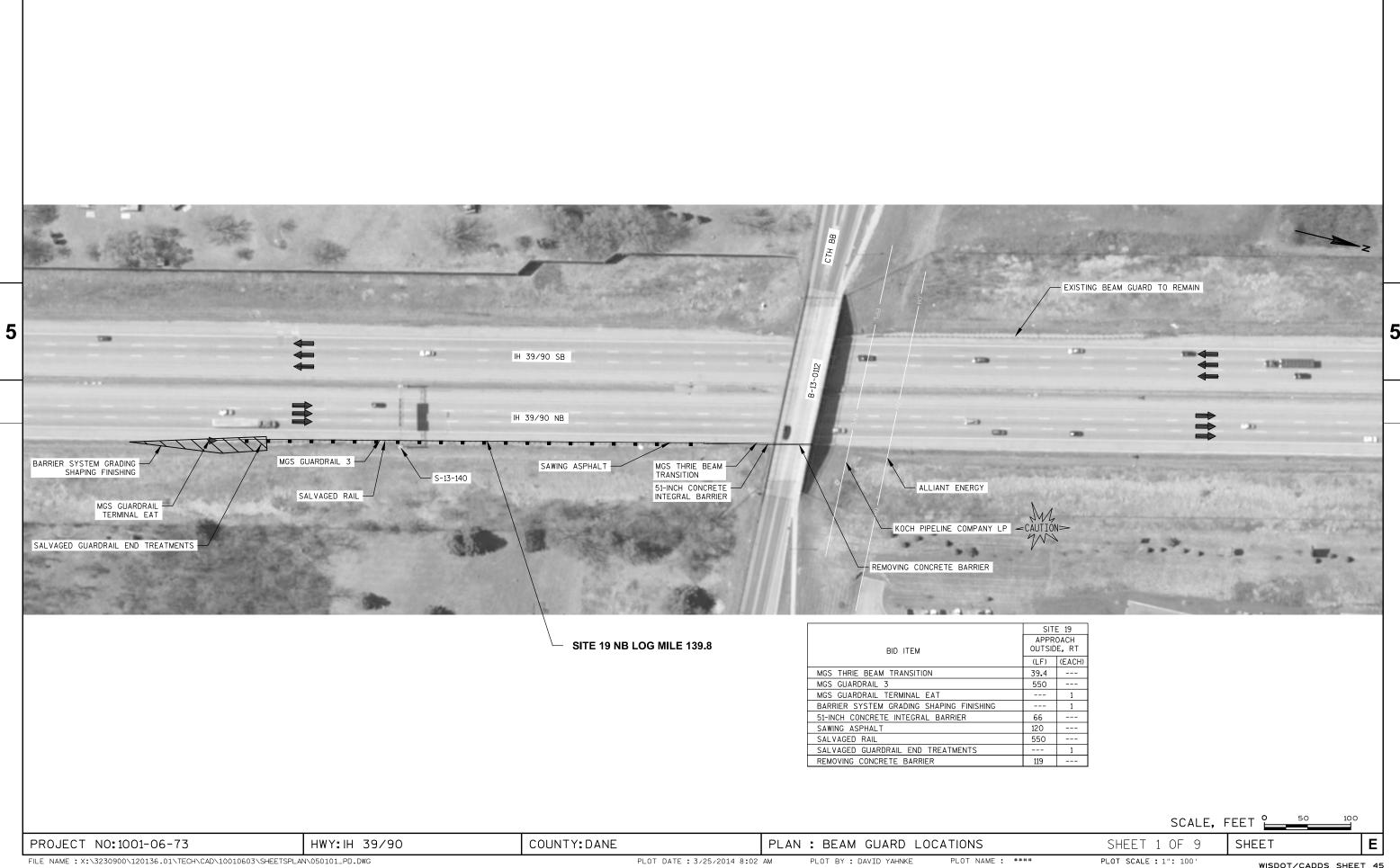
SAWING ASPHALT

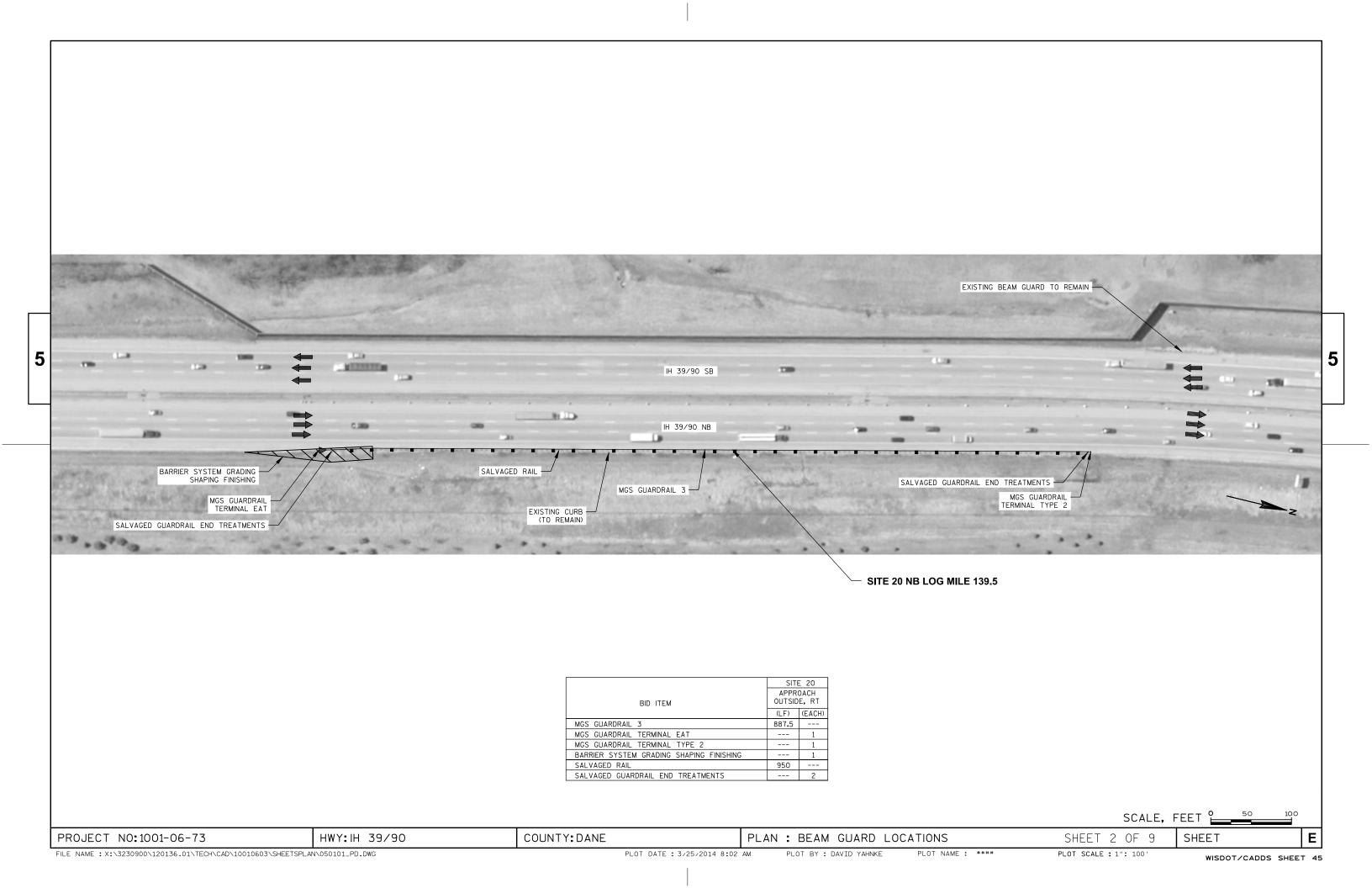
		690.0150 SAWING ASPHALT
	LOCATION	(LF)
OFF 40 (DT)	OUTOIDE ADDDOAOU	100
SITE 19 (RT)	OUTSIDE APPROACH	120
SITE 21	GORE	90
SITE 30 (RT)	OUTSIDE APPROACH	55
SITE 30 (LT)	MEDIAN APPROACH	55
TOTAL		320

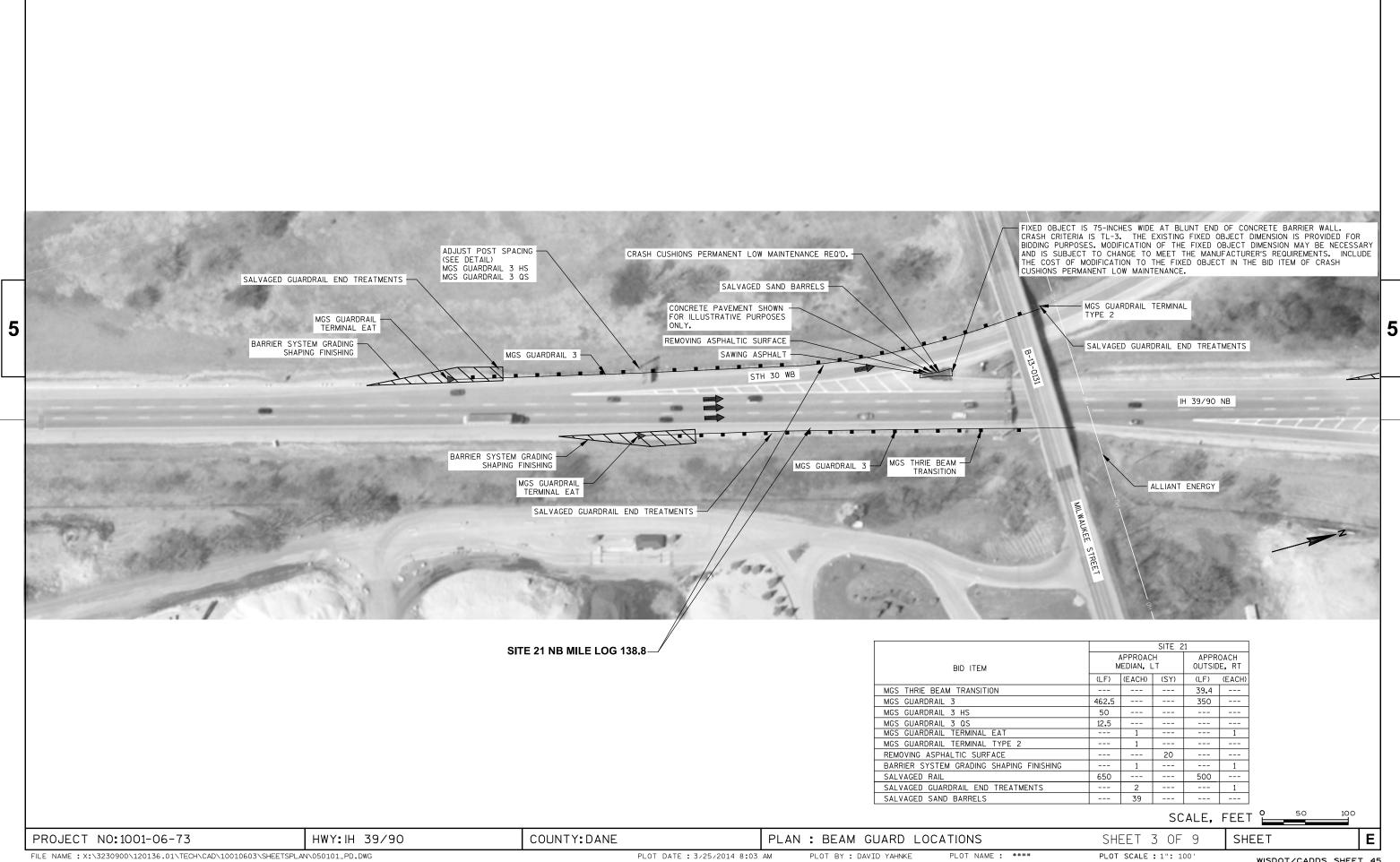
DELINEATOR REFLECTORS AND BRACKETS

	 633.0500 DELINEATOR		633.1000
	REFLECTORS		DELINEATOR
	YELLOW	WHITE	BRACKETS
LOCATION	(EACH)	(EACH)	(EACH)
SITE 19 (RT) OUTSIDE APPROACH		3	3
SITE 30 (LT) MEDIAN APPROACH	3		3
SITE 30 (RT) OUTSIDE APPROACH		3	3
SUBTOTAL	3	6	9
TOTAL	ç)	9

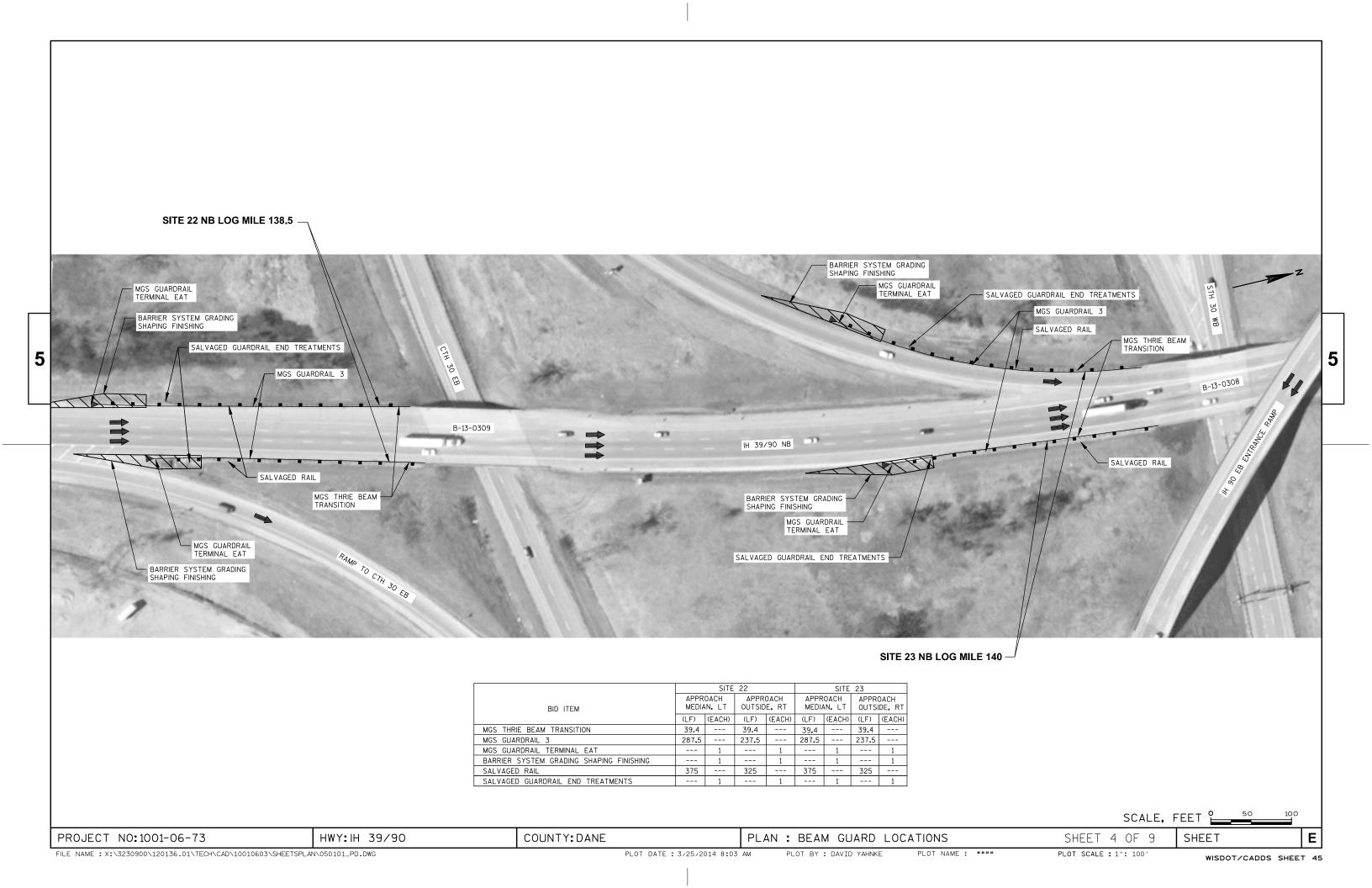
PROJECT NO: 1001-06-73 HWY:IH 39/90 COUNTY: DANE MISCELLANEOUS QUANTITIES SHEET **E**

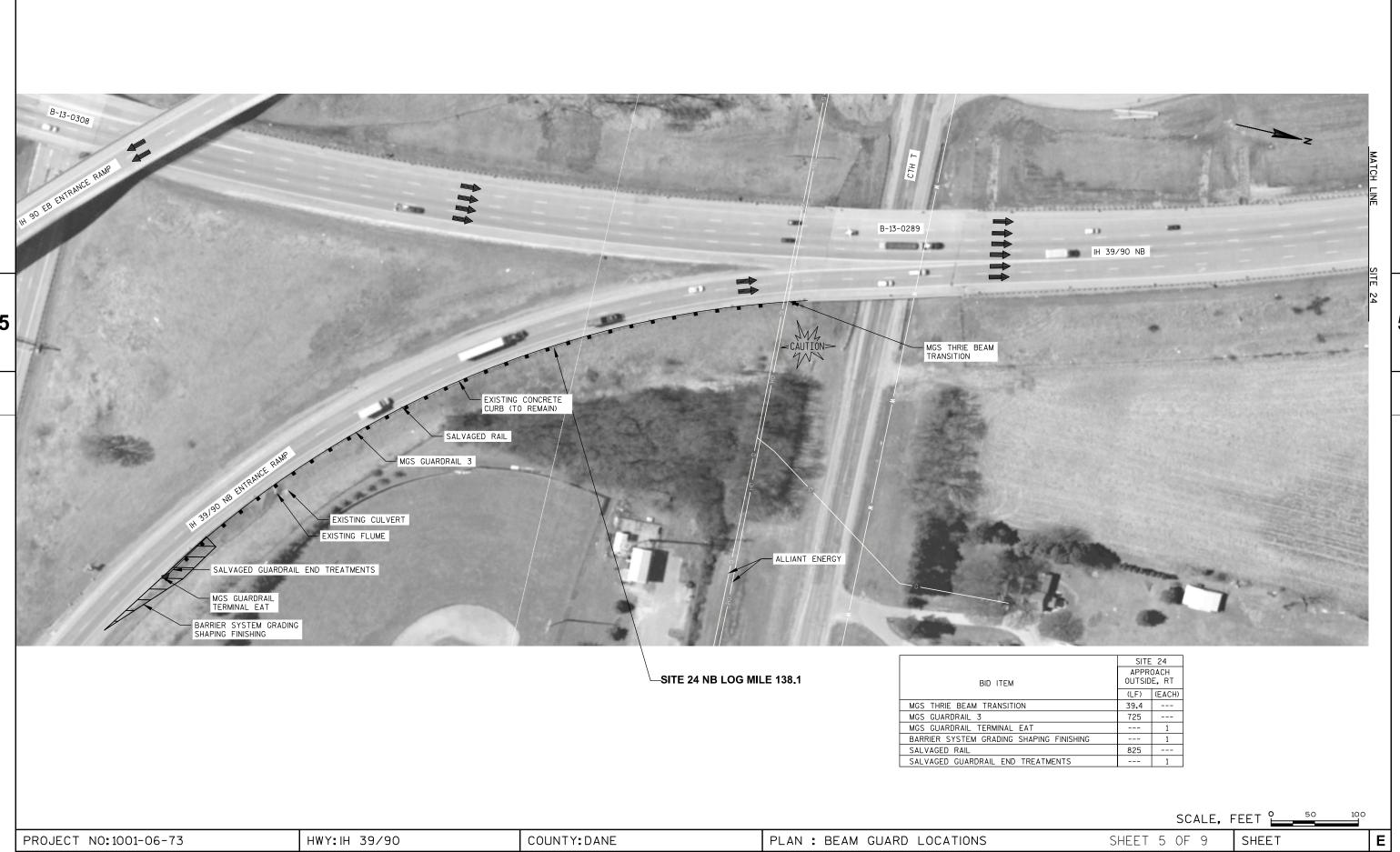






WISDOT/CADDS SHEET 45





FILE NAME : X:\3230900\120136.01\TECH\CAD\10010603\SHEETSPLAN\050101_PD.DWG

PLOT DATE: 3/25/2014 8:04 AM

PLOT BY : DAVID YAHNKE

PLOT NAME: ####

PLOT SCALE : 1": 100'

WISDOT/CADDS SHEET 45

SALVAGED GUARDRAIL END TREATMENTS MGS GUARDRAIL TERMINAL TYPE 2 - SALVAGED GUARDRAIL END TREATMENTS BARRIER SYSTEM GRADING SHAPING FINISHING S-13-0026 EXISTING CURB (TO REMAIN) 130 1000 IH 39/90 SB EXIT 138A MGS GUARDRAIL TERMINAL EAT MGS GUARDRAIL 3 -EXISTING FLUME SALVAGED RAIL SITE 26 SB LOG MILE 137.9 APPROACH OUTSIDE, RT

FILE NAME : X:\3230900\120136.01\TECH\CAD\10010603\SHEETSPLAN\050101_PD.DWG

HWY:IH 39/90

PROJECT NO:1001-06-73

PLOT DATE : 3/25/2014 8:04 AM

COUNTY: DANE

PLAN : BEAM GUARD LOCATIONS PLOT BY : DAVID YAHNKE

BID ITEM

BARRIER SYSTEM GRADING SHAPING FINISHING MGS THRIE BEAM BULLNOSE TERMINAL SALVAGED GUARDRAIL END TREATMENTS

MGS GUARDRAIL 3

MGS GUARDRAIL TERMINAL EAT MGS GUARDRAIL TERMINAL TYPE 2

PLOT NAME : ####

MEDIAN, LT

(LF) (EACH)

(LF) (EACH)

225

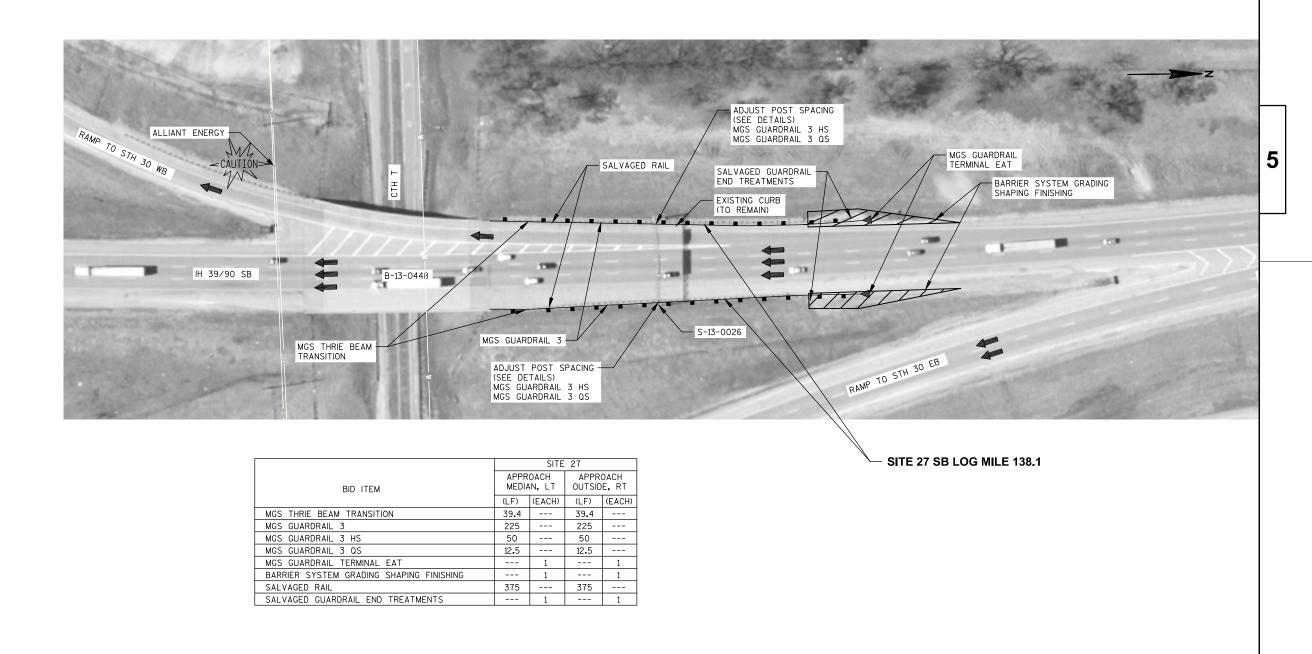
SHEET 6 OF 9 PLOT SCALE : 1": 100'

SCALE, FEET

SHEET

WISDOT/CADDS SHEET 45

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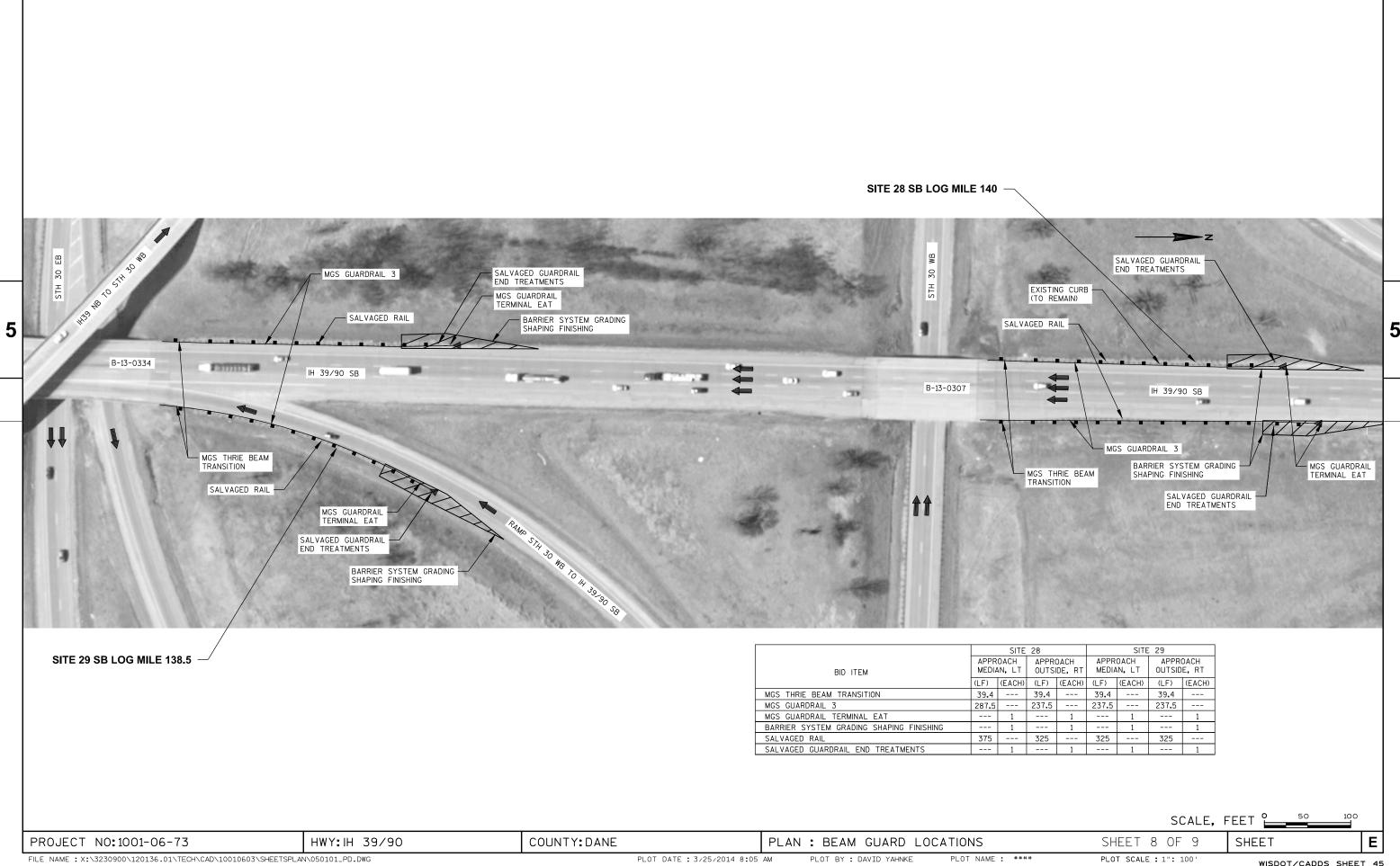
PROJECT NO:1001-06-73 COUNTY: DANE SHEET 7 OF 9 Ε HWY:IH 39/90 PLAN : BEAM GUARD LOCATIONS SHEET FILE NAME : X:\3230900\120136.01\TECH\CAD\10010603\SHEETSPLAN\050101_PD.DWG PLOT NAME: #### PLOT SCALE : 1": 100'

PLOT DATE : 3/25/2014 8:05 AM

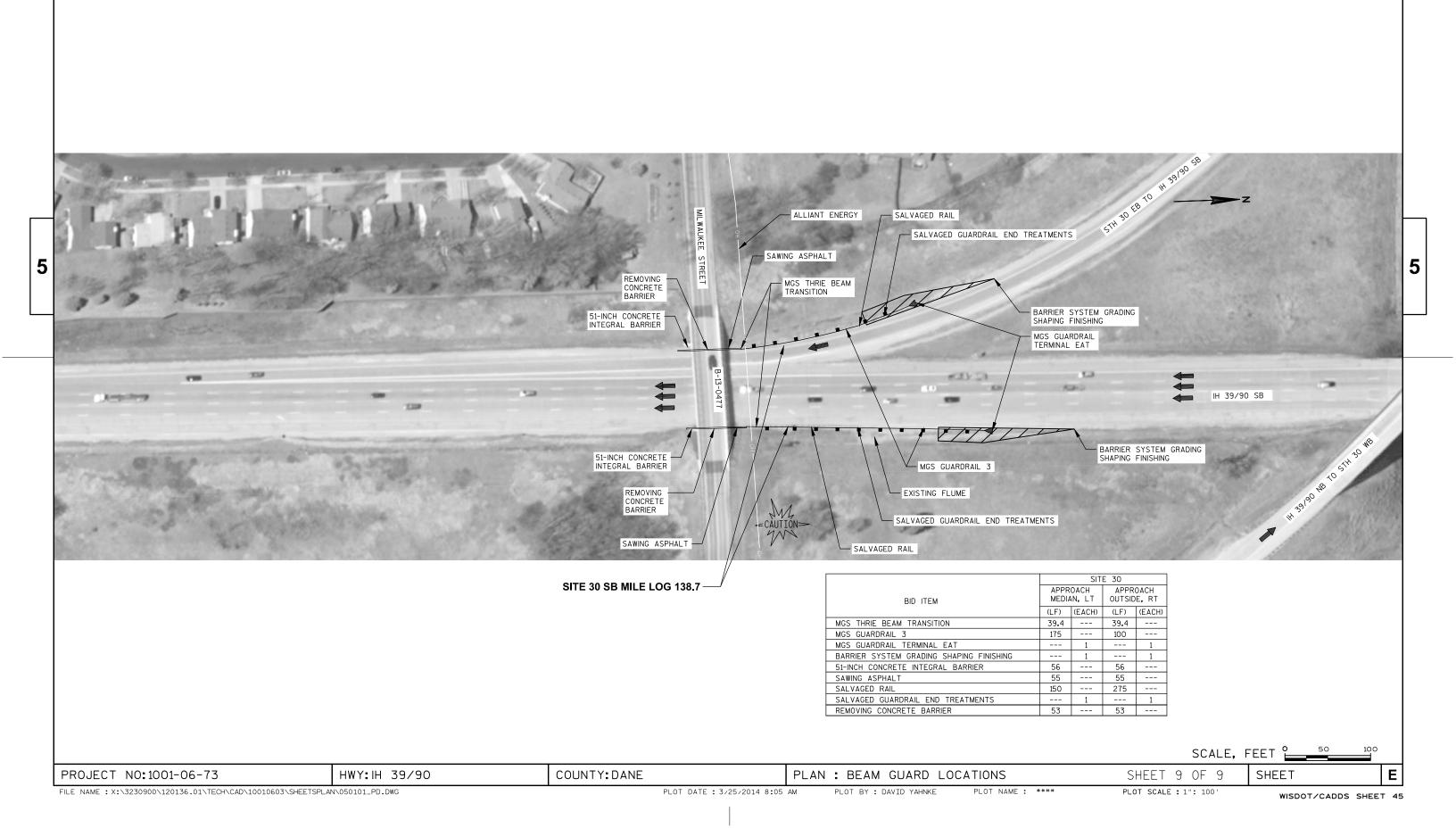
PLOT BY : DAVID YAHNKE

WISDOT/CADDS SHEET 45

SCALE, FEET

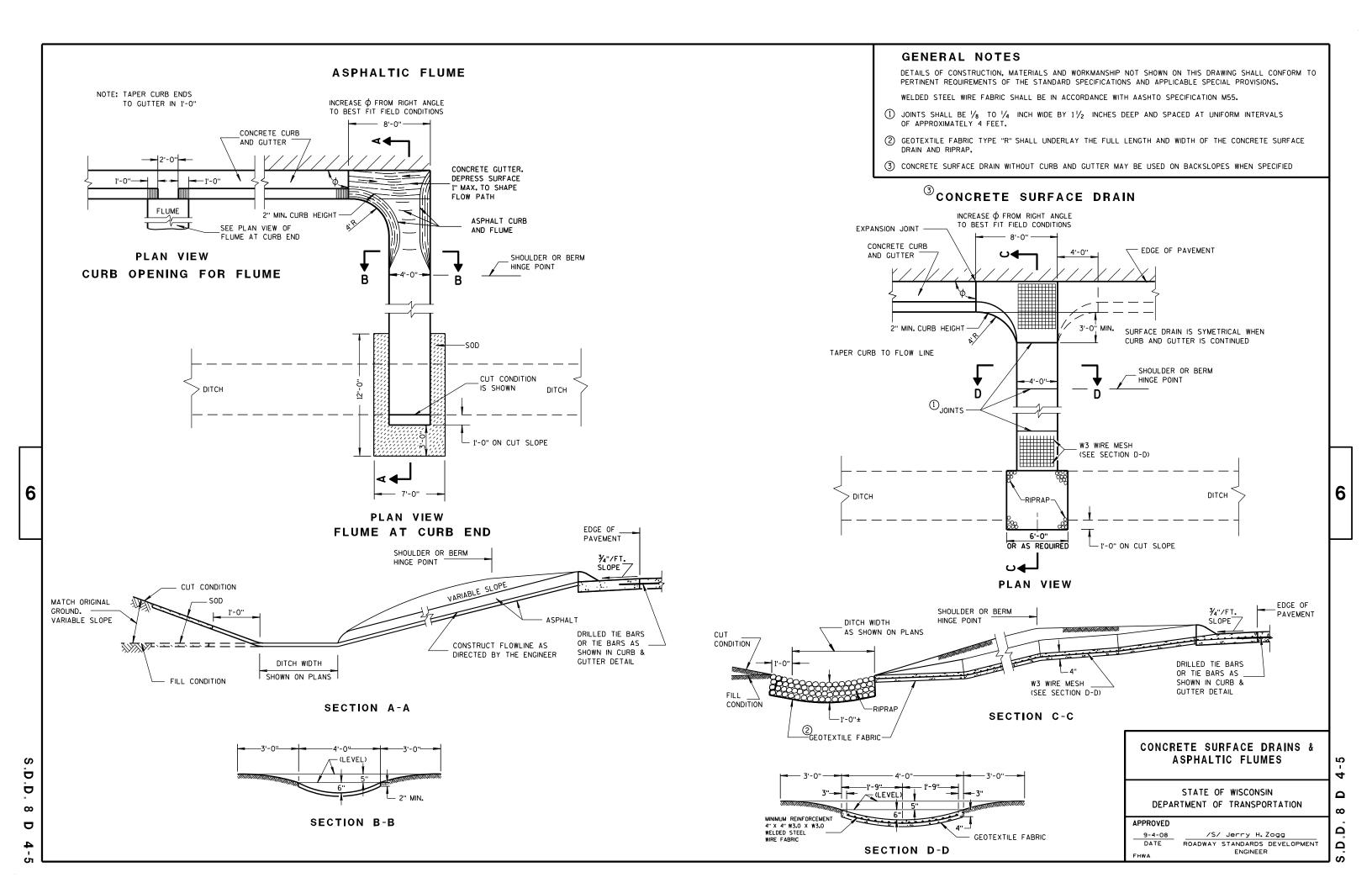


WISDOT/CADDS SHEET 45



Standard Detail Drawing List

08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E09-06	SILT FENCE
14B07-13A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B08-01A	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-01B	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B42-02A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-02B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-02C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-01A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-01B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-01C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-03A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B47-01A	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-01B	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-01C	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
15A02-08	DELINEATOR POST, DELINEATOR, AND DELINEATOR BRACKET WITH REFLECTIVE SHEETING
15D12-03	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M.P.H.
15D27-02	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH



TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- 2 FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



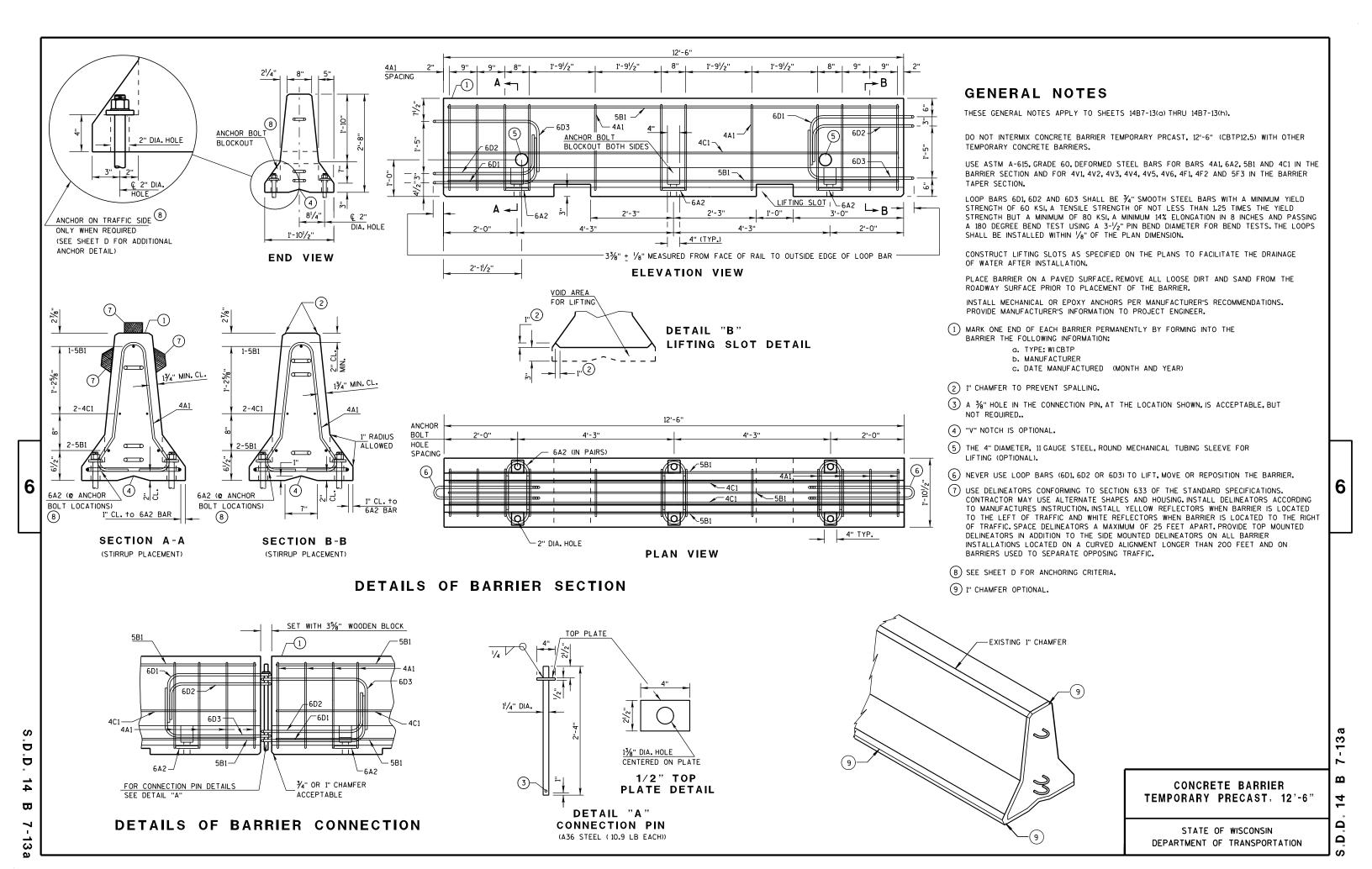
SILT FENCE TIE BACK

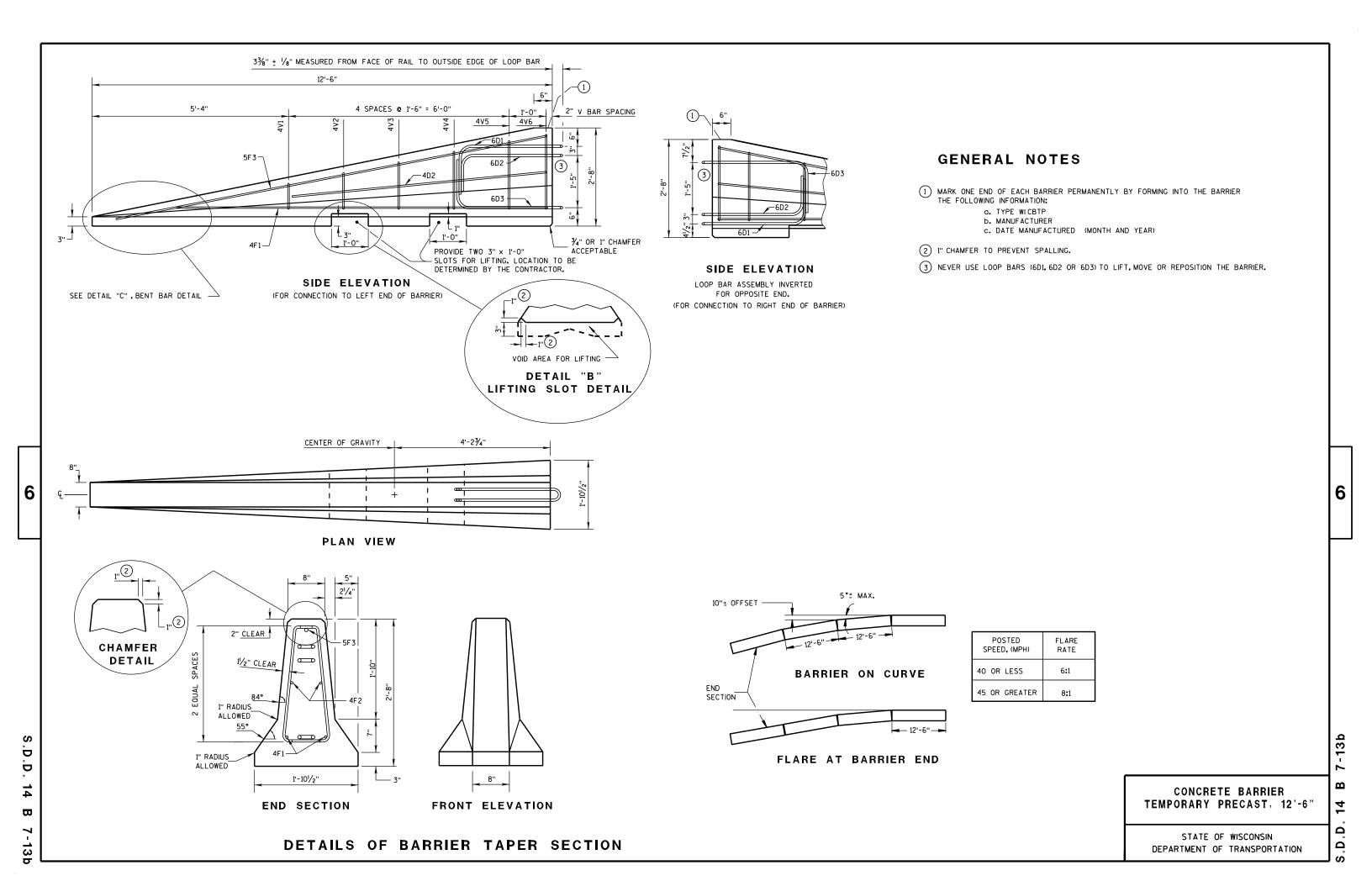
(WHEN REQUIRED BY THE ENGINEER)



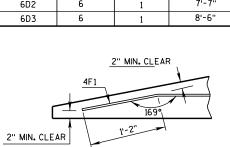
SILT FENCE

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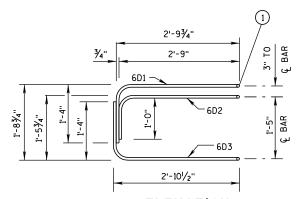


BAR	BAR SIZE	NO. OF BARS	LENGTH FT.			
4V1	4	2	1'-11"			
4V2	4	2	2'-2"			
4V3	4	2	2'-6"			
4V4	4	2	2'-9"			
4V5	4	2	3'-2"			
4V6	4	2	3'-4"			
4F1	4	2	12'-0"			
4F2	4	2	7'-6"			
5F3	5	1	11'-9''			
L	LOOP ASSEMBLY					
6D1	6	1	8'-5"			
6D2	6	1	7'-7''			
6D3	6	1	8'-6"			

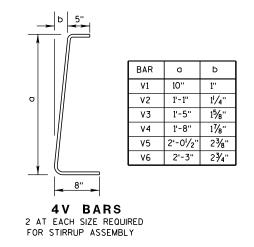


DETAIL "C"

BENT BAR DETAIL





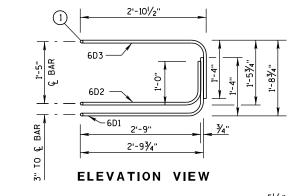


TAPER BARRIER SECTION

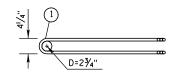
BARRIER SECTION

BILL OF MATERIALS (PER 12'-6" BARRIER SECTION)

BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
L	OOP AS	SSEMBL	Υ
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"

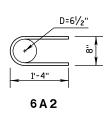


1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

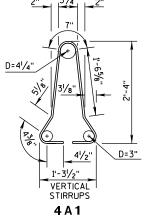


PLAN VIEW LOOP BAR ASSEMBLY

(MARKED END SHOWN, INVERT FOR OTHER END)



GENERAL NOTES



BARRIER SECTION

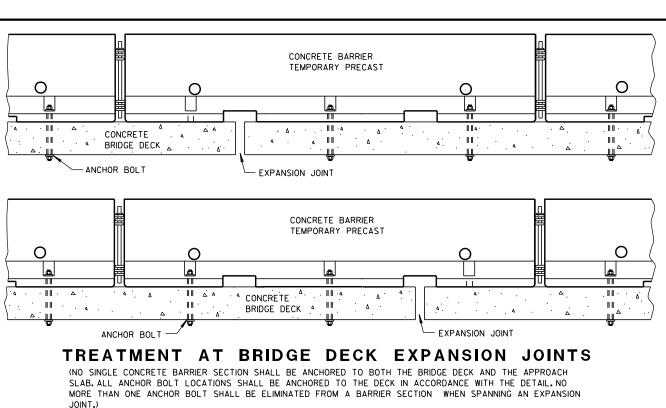
CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

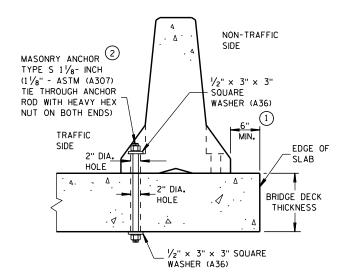
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)

CONCRETE BARRIER TEMPORARY PRECAST MASONRY ANCHOR TYPE S 1 1/8- INCH . 🗸 $(1\frac{1}{8}" - ASTM (A307)$ ADHESIVE BONDED ANCHOR NON-TRAFFIC WITH HEAVY HEX NUT SIDE AND 1/2" X 3" X 3" SQUARE WASHER (A36)) TRAFFIC SIDE **EMBEDMENT** ablaBRIDGE DECK, APPROACH SLAB OR CONCRETE PAVEMENT

REMOVABLE ADHESIVE BONDED ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

GENERAL NOTES

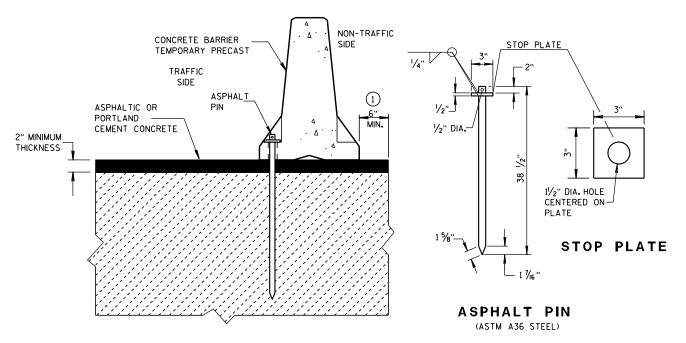
(1) CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" SHALL BE ANCHORED IF: THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H: 1V. FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT, IS LESS THAN 4 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 45 MPH OR GREATER, OR

THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H: 1V. FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT. IS LESS THAN 2 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 40 MPH OR LESS.

(2) ANCHORING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST.

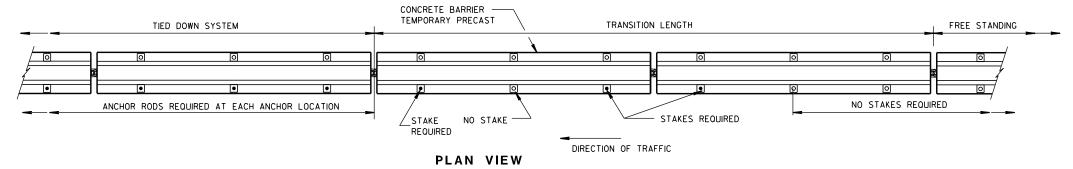
WITH THE APPROVAL OF THE ENGINEER, REMOVABLE ADHESIVE BONDED (EPOXY) ANCHOR BOLT INSTALLATION MAY BE USED IN LIEU OF THROUGH BOLTED ANCHOR INSTALLATION. THE ADHESIVE BONDED ANCHOR BOLT MUST BE REMOVABLE. USE ASTM (A307) MASONRY ANCHORS TYPE S 1 1/a-INCH, EMBEDDED TO A DEPTH SUFFICIENT TO DEVELOP THE ULTIMATE CAPACITY OF THE ANCHOR BOLT AND PROVIDE DOCUMENTATION TO CONFIRM THIS.

UPON REMOVAL OR RELOCATION OF THE BARRIER UNITS, REMOVE ALLANCHOR BOLTS AND COMPLETELY FILL IN THE REMAINING HOLES IN CONCRETE BRIDGE DECKS, CONCRETE APPROACH SLABS AND CON-CRETE PAVEMENTS THAT ARE TO REMAIN, WITH A NON-SHRINK COMMERICAL GROUT OR EPOXY MATERIAL IDENTIFIED ON THE CURRENT WISDOT APPROVED PRODUCTS LIST.



STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

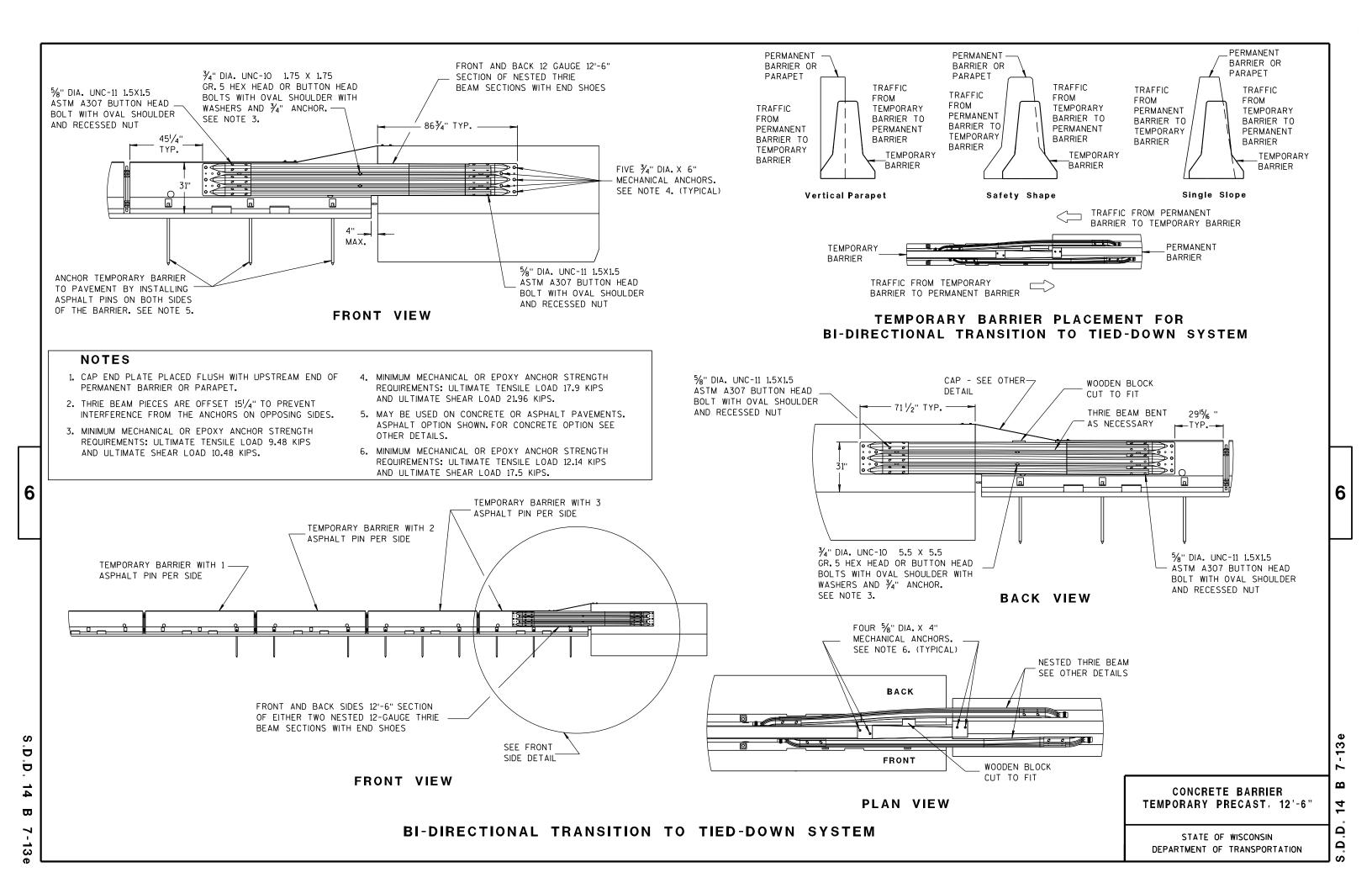
(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY, IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN,)

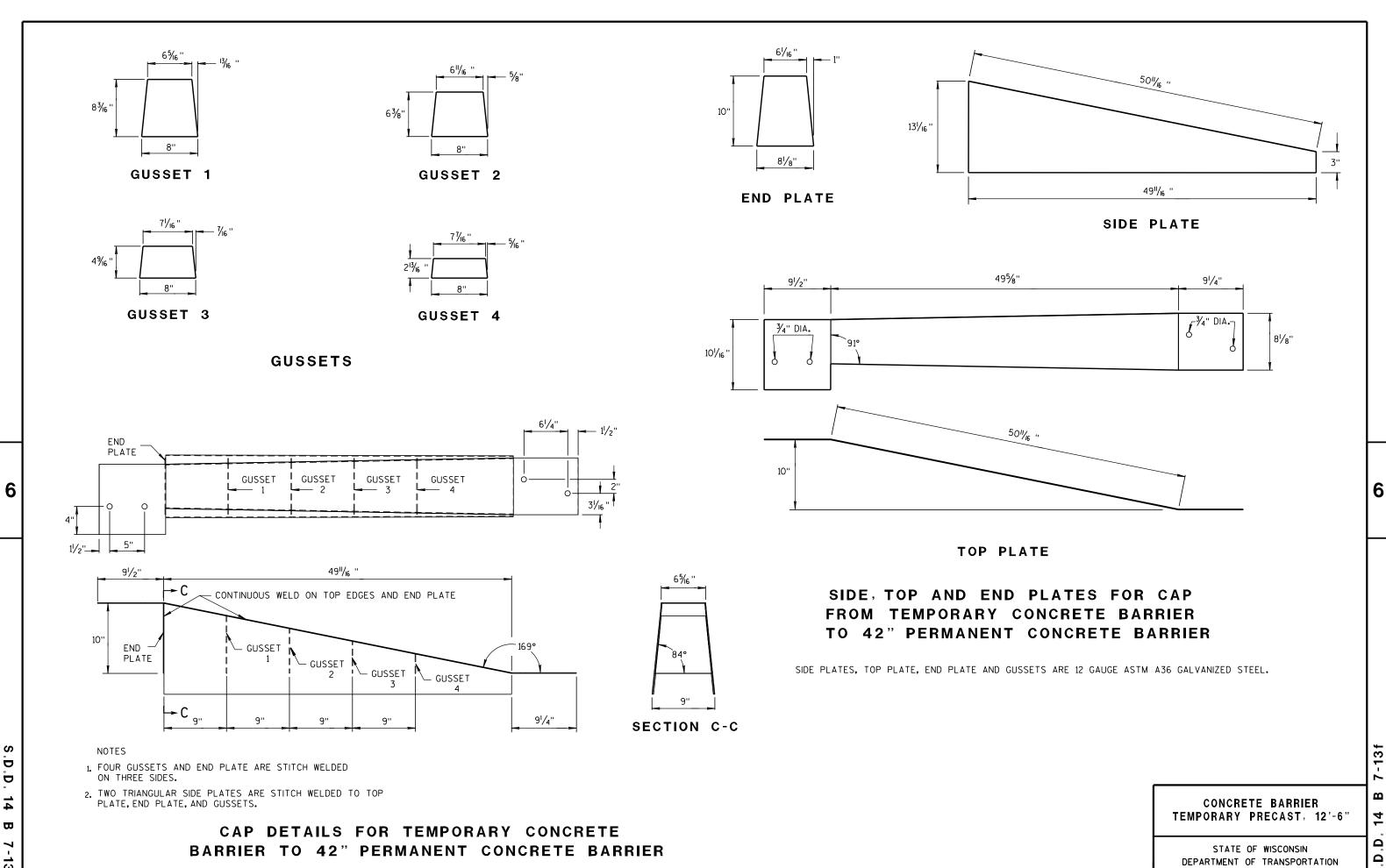
CONCRETE BARRIER TEMPORARY PRECAST, 12'-6'

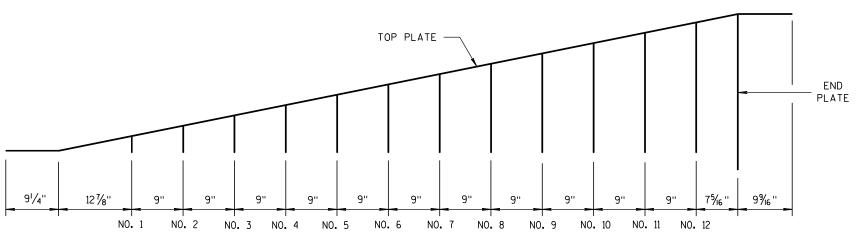
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

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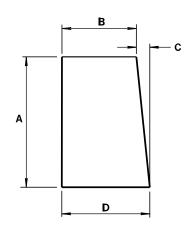






GUSSET LOCATION

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER



GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

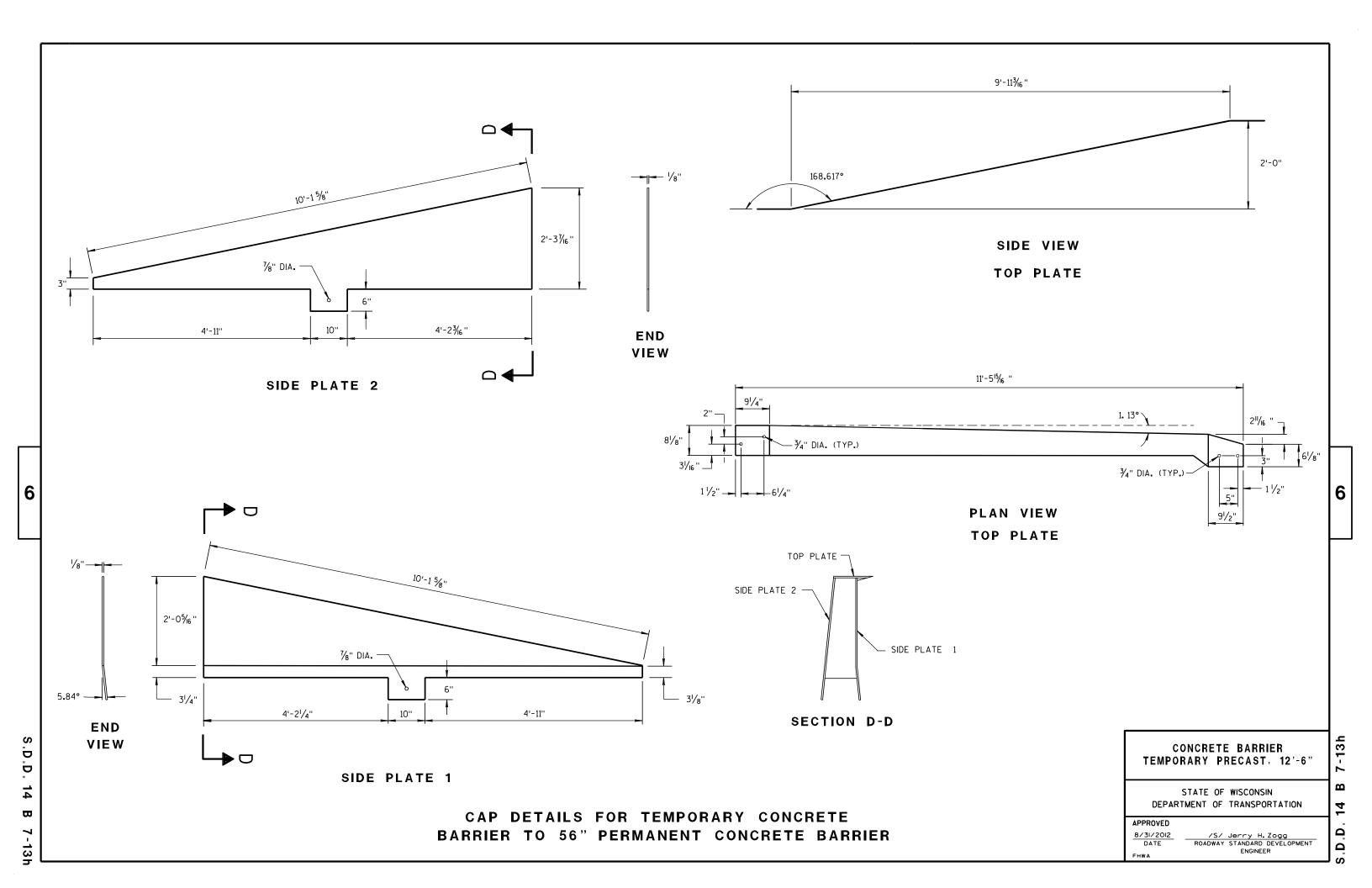
GUSSET DIMENSIONS						
GUSSET NO.	Α	В	С	D		
1	2 1/8"	73/4"	1/4"	8		
2	4"/16 "	7%6"	1/2"	8		
3	61/2"	73/8"	11/16 ''	81/16 "		
4	85/6"	7¾ ₆ "	7/8"	81/16"		
5	101/8"	7''	1 1/16 "	8½ ₆ "		
6	11 ¹⁵ / ₁₆ ''	6 ¹³ / ₁₆ "	1 1/4"	81/16"		
7	13¾"	65⁄8''	1 7/6"	81/16"		
8	15% "	6 ⅓ ₆ ''	1 % "	81/16 ''		
9	173/8"	6 ¹ / ₄ ''	1 13/16 "	81/16"		
10	193/6"	6½ ₆ "	1 15/16 ''	81/16"		
11	21"	57/8"	23/6"	81/16"		
12	2213/16 "	511/16 "	25/6"	81/16"		

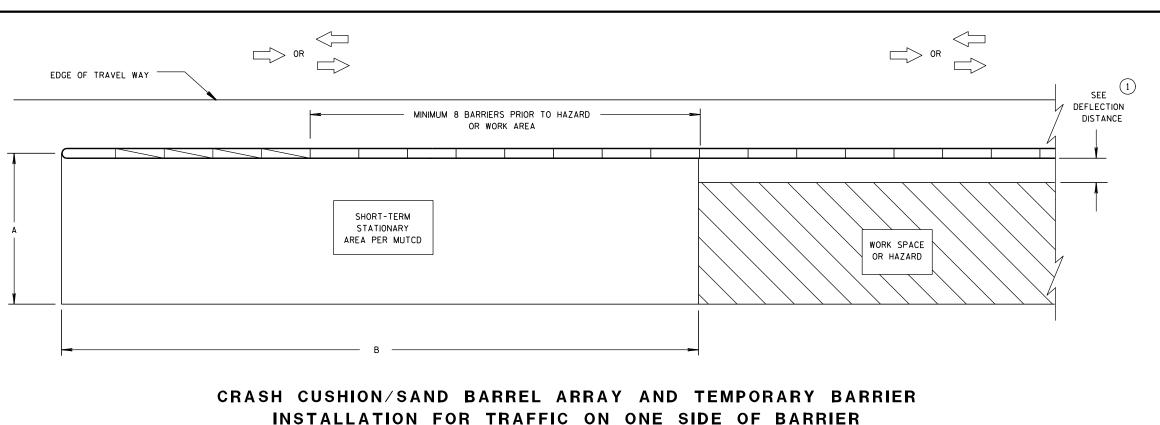
SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.

> CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION





DIMENSION A TABLE (2)

		DIMENS	SION A
FACILITY	POSTED SPEED MPH	MIN. FT	MAX. FT
FREEWAY/EXPRESSWAY	ALL	15	20
NON-FREEWAY/EXPRESSWAY	GREATER THAN OR EQUAL TO 45	10	15
NON-FREEWAY/EXPRESSWAY	LESS THAN 45	8	10
AADT LESS THAN 1,500	ALL	8	10

DIMENSION B TABLE (2)

POSTED Speeds	DIMENSION B
MPH	FT
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645

DIRECTION OF TRAVEL

SAND BARREL ARRAY

CRASH CUSHION OR

SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS

3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET

FREE STANDING TEMPORARY

BARRIER

LEGEND

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION Ω

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CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON BOTH SIDES OF BARRIER

GENERAL NOTES

SEE STANDARD DETAIL DRAWING 14B7 FOR MORE INFORMATION.

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DETAILS PROVIDE A GENERAL LAYOUT OF TEMPORARY CONCRETE BARRIER, CRASH CUSHIONS, SAND BARREL ARRAYS AND TIE DOWN TRANSITIONS. DETAILS PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

ADDITIONAL TEMPORARY BARRIER MAY BE REQUIRED TO PROTECT TRAVELING PUBLIC FROM HAZARDS, CONTRACTOR'S OPERATIONS OR TO CONTROL TRAFFIC.

OR 🖒

EDGE OF TRAVEL WAY -

EDGE OF TRAVEL WAY -

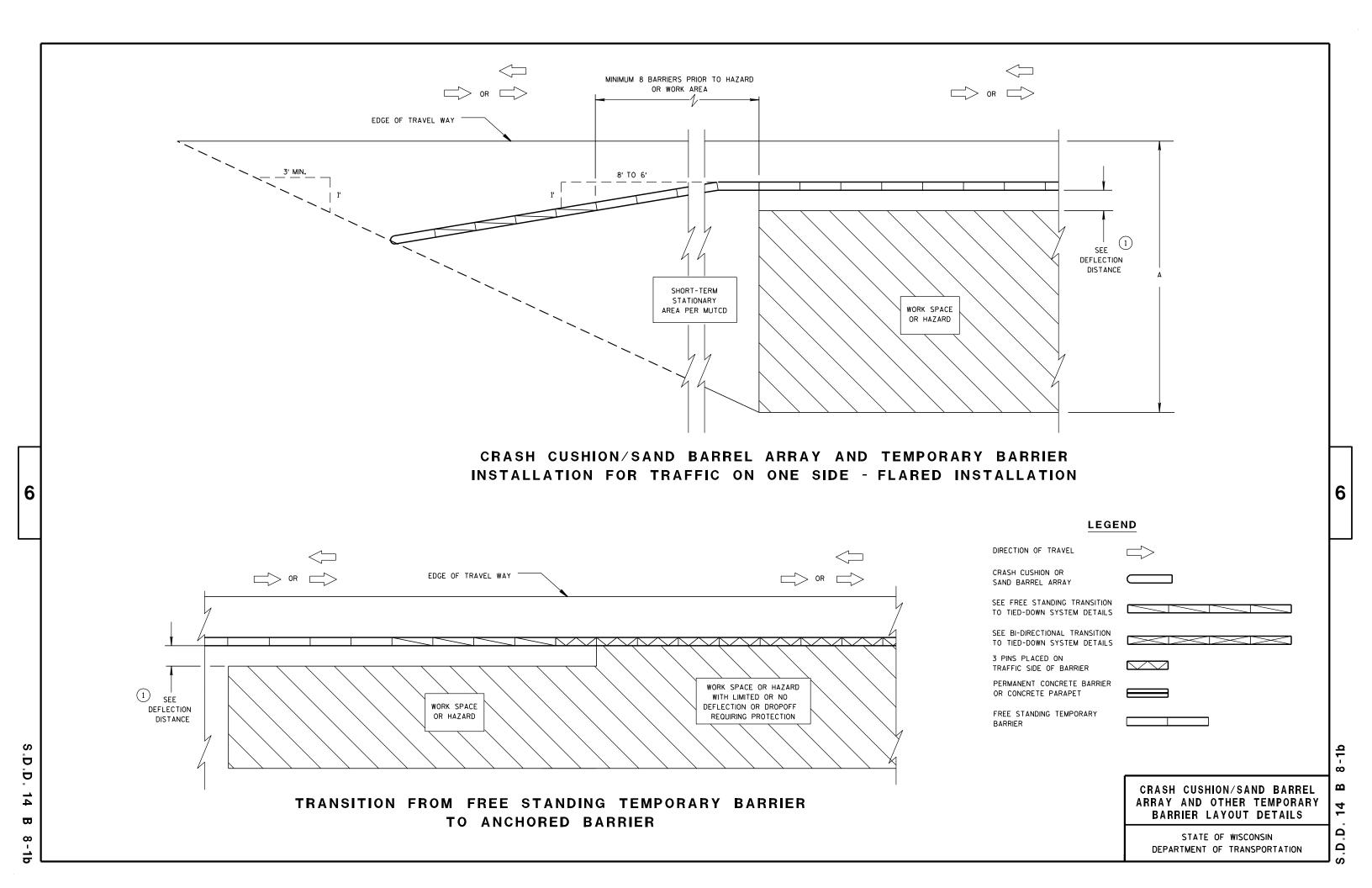
TEMPORARY BARRIER MAY BE REQUIRED TO BE ANCHORED TO PAVEMENT OR BRIDGE DECK.

FOR DETAILS ON CRASH CUSHION OR SAND BARREL ARRAYS SEE OTHER SECTIONS OF THE PLAN AND MANUFACTURE'S DETAILS.

SLOPES LEADING TO TEMPORARY BARRIER, CRASH CUSHION OR SAND BARREL ARRAY ARE 10:1 OR LESS.

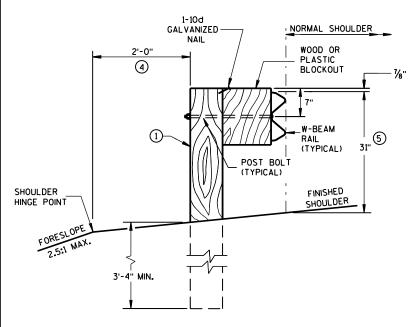
(1) FOR DEFLECTION INFORMATION SEE STANDARD DETAIL DRAWING 14B7.

(2) VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.



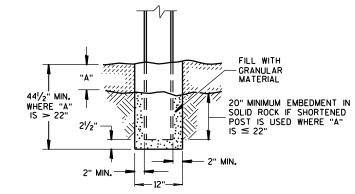
GENERAL NOTES

- (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 21/2INCHES 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 ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

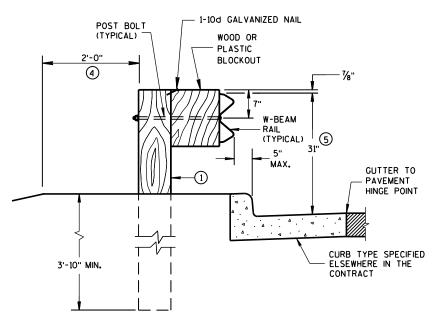


END VIEW

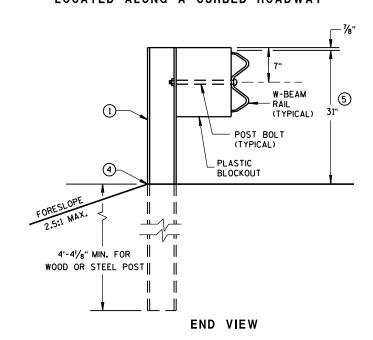
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



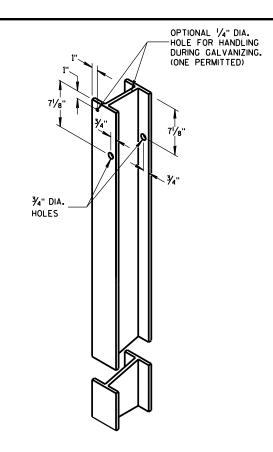
SETTING STEEL OR WOOD POST IN ROCK $^{\scriptsize{\textcircled{3}}}$



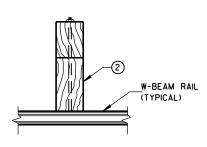
END VIEW
LOCATED ALONG A CURBED ROADWAY



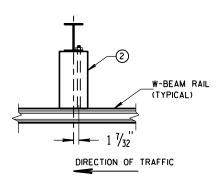
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



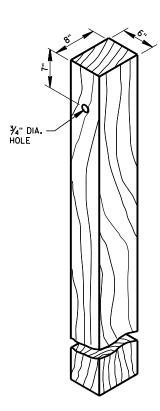
STEEL POST & HOLE PUNCHING DETAIL (w6X9)



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL



WOOD OR PLASTIC BLOCKOUT

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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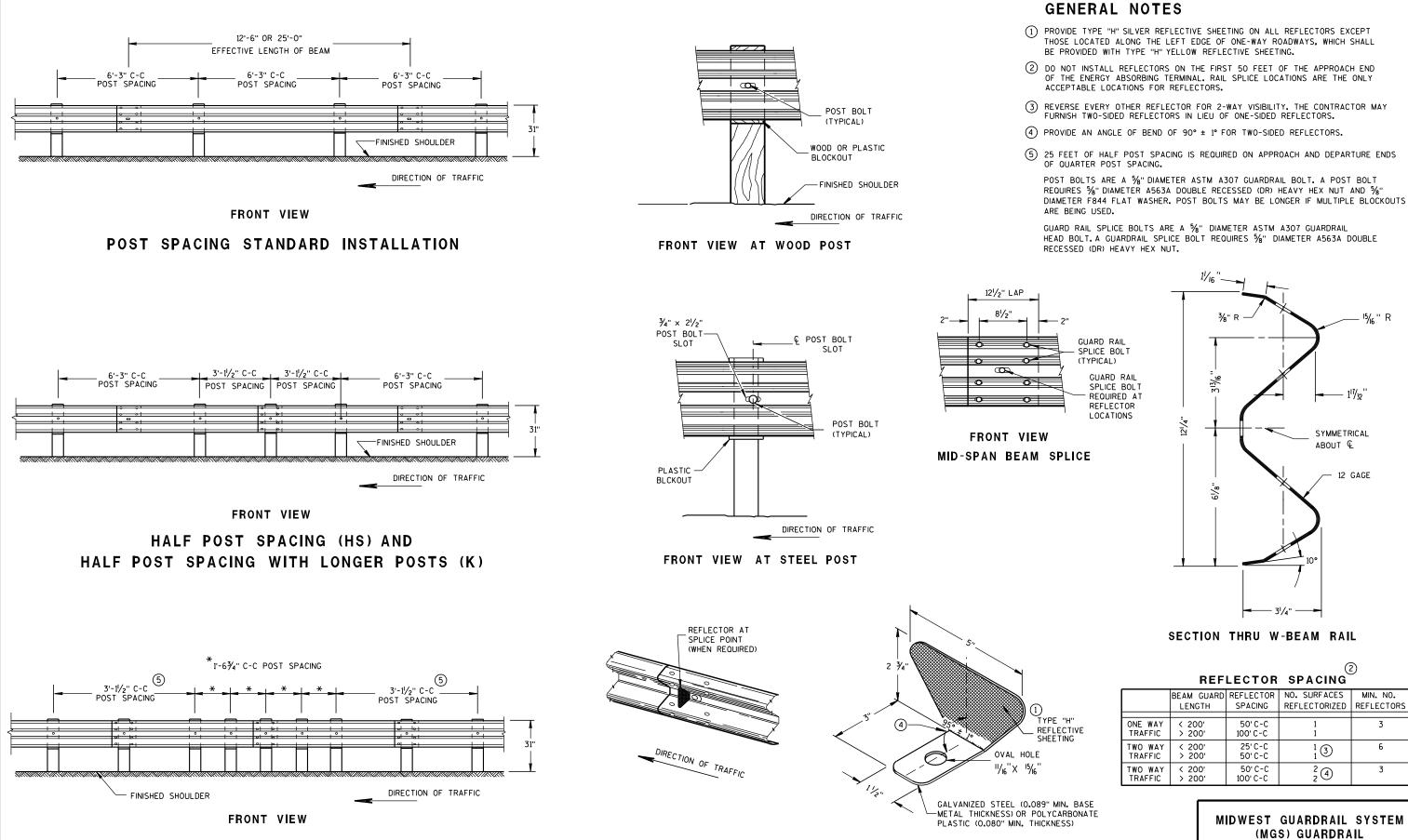
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ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

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QUARTER POST SPACING (QS)

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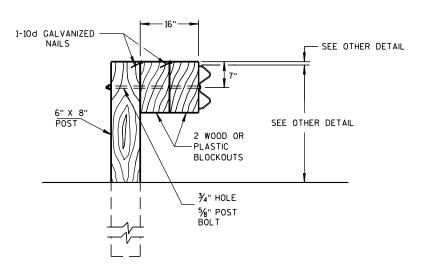
BEAM GUARD REFLECTOR NO. SURFACES MIN. NO.

SPACING | REFLECTORIZED | REFLECTORS 3 6 1 3 2 4 3

> MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

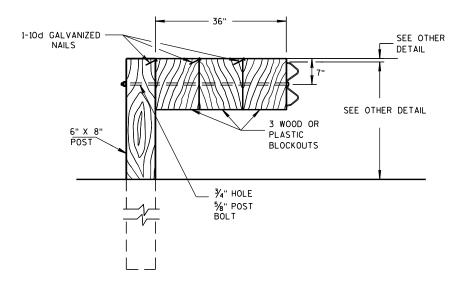
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION Ω Δ

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DETAIL FOR 16" BLOCKOUT DEPTH

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



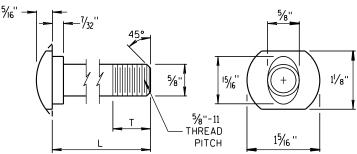
DETAIL FOR 36" BLOCKOUT DEPTH

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.

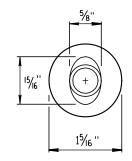
NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16".

2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

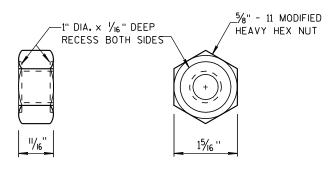


POST BOLT TABLE

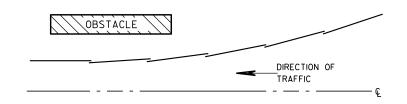
L	T (MIN.)
11/4"	1 1/8"
2"	13/4"
10"	4"
14"	4½ ₆ "
18"	4"
21"	4½ "
25"	4"



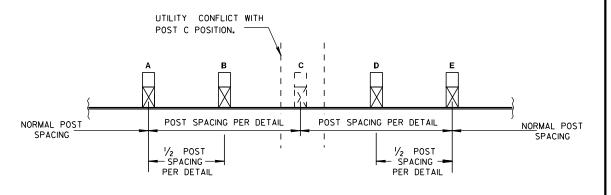
ALTERNATE BOLT HEAD



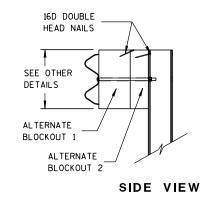
POST BOLT AND RECESS NUT

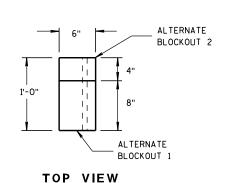


PLAN VIEW BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

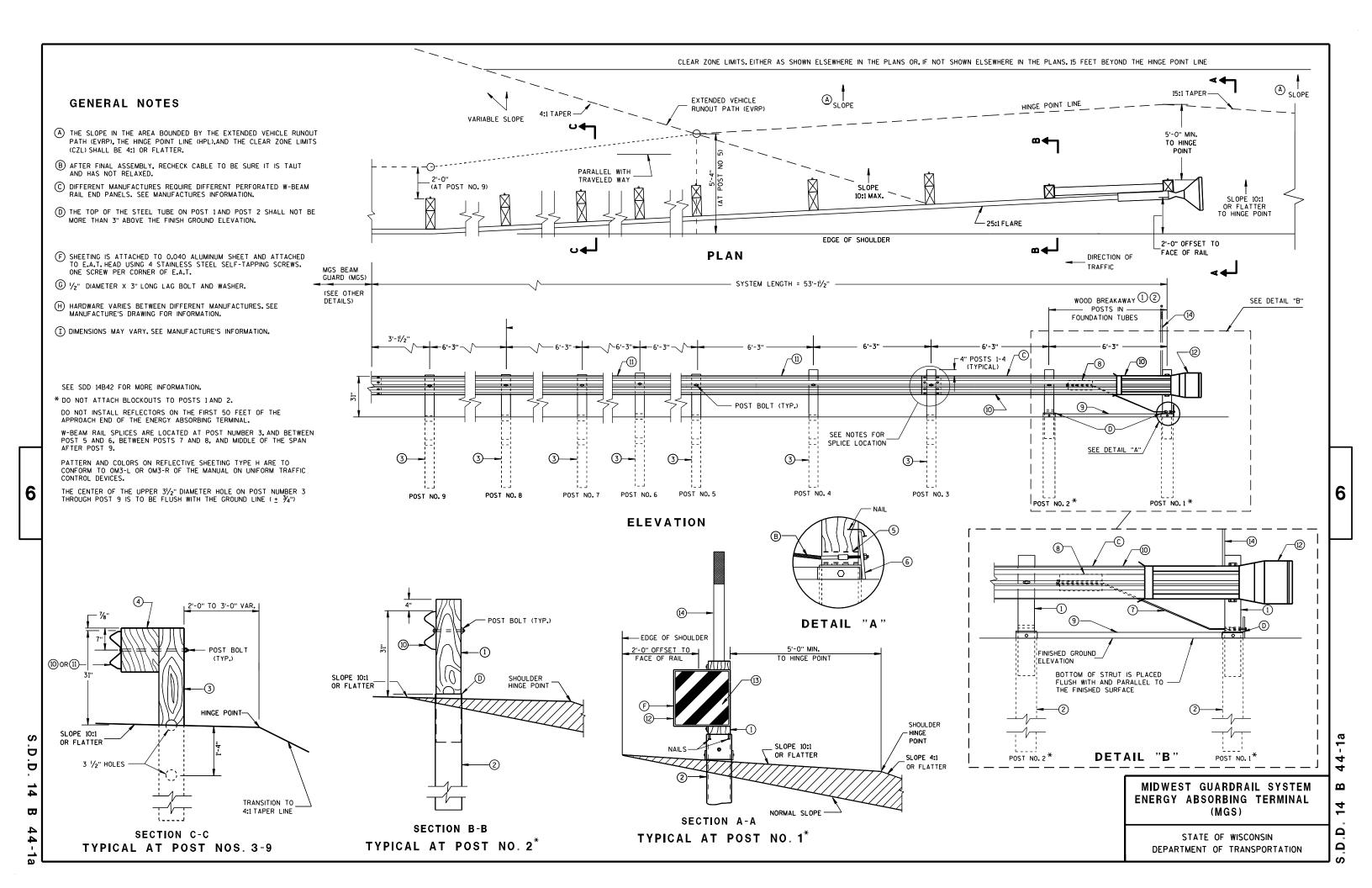
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

II/15/20II /S/ Jerry H. Zogg

DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

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GENERIC ANCHOR CABLE BOX

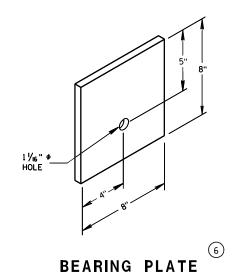
GENERIC GROUND STRUT

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PLAN VIEW

BILL OF MATERIALS

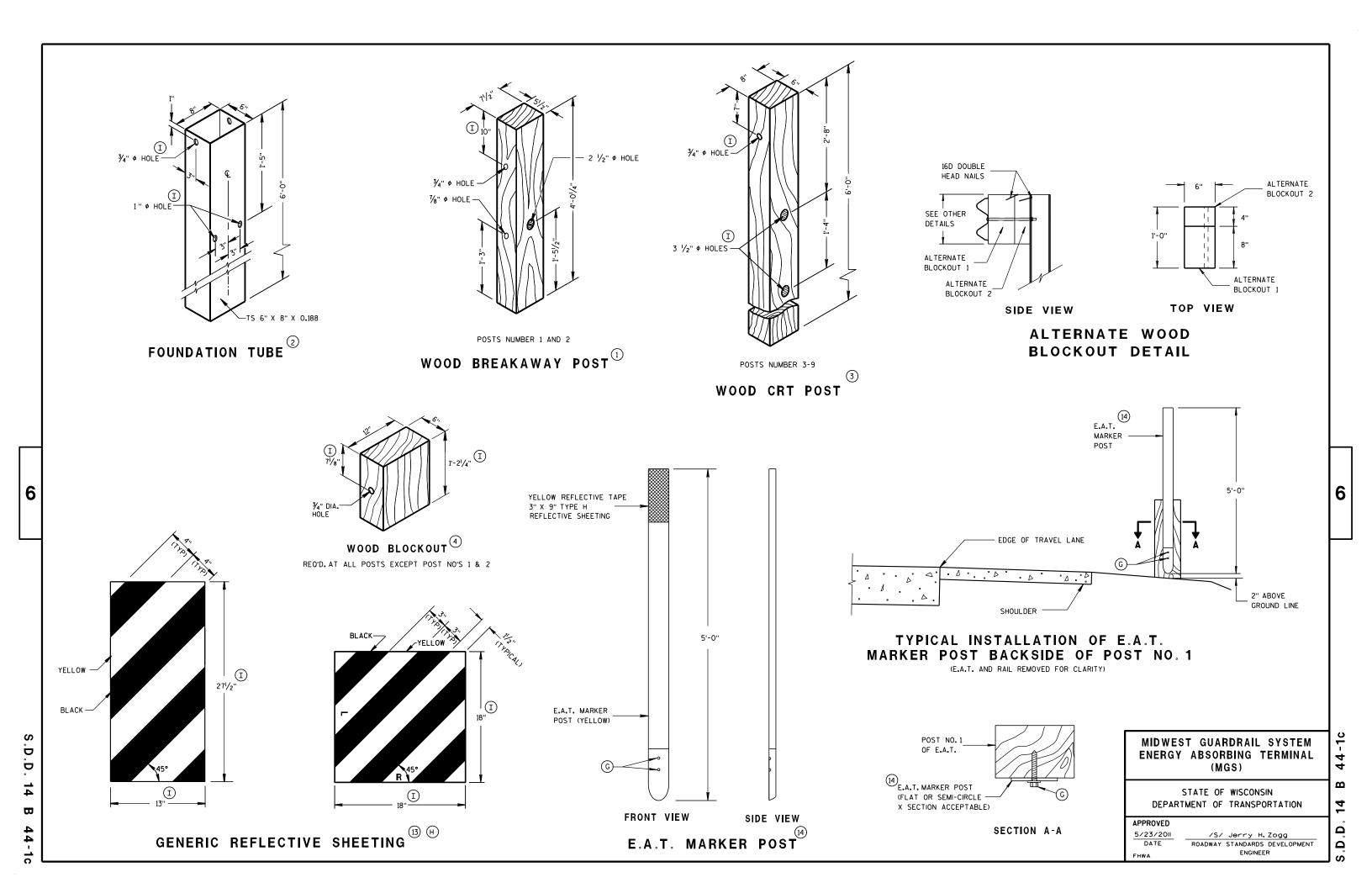
PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.		
1	WOOD BREAKAWAY POST		
2 6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1 AND 2			
3	WOOD CRT		
4	WOOD BLOCKOUT		
(5)	PIPE SLEEVE		
6	BEARING PLATE		
7	BCT CABLE ASSEMBLY		
8	ANCHOR CABLE BOX		
9	GROUND STRUT		
10	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.		
(1)	STANDARD W-BEAM RAIL.MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.		
(2)	END SECTION EAT		
13)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE H (ONLY THE SHEETING IS SUPPLIED BY THE MANUFACTURER)		
14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)		

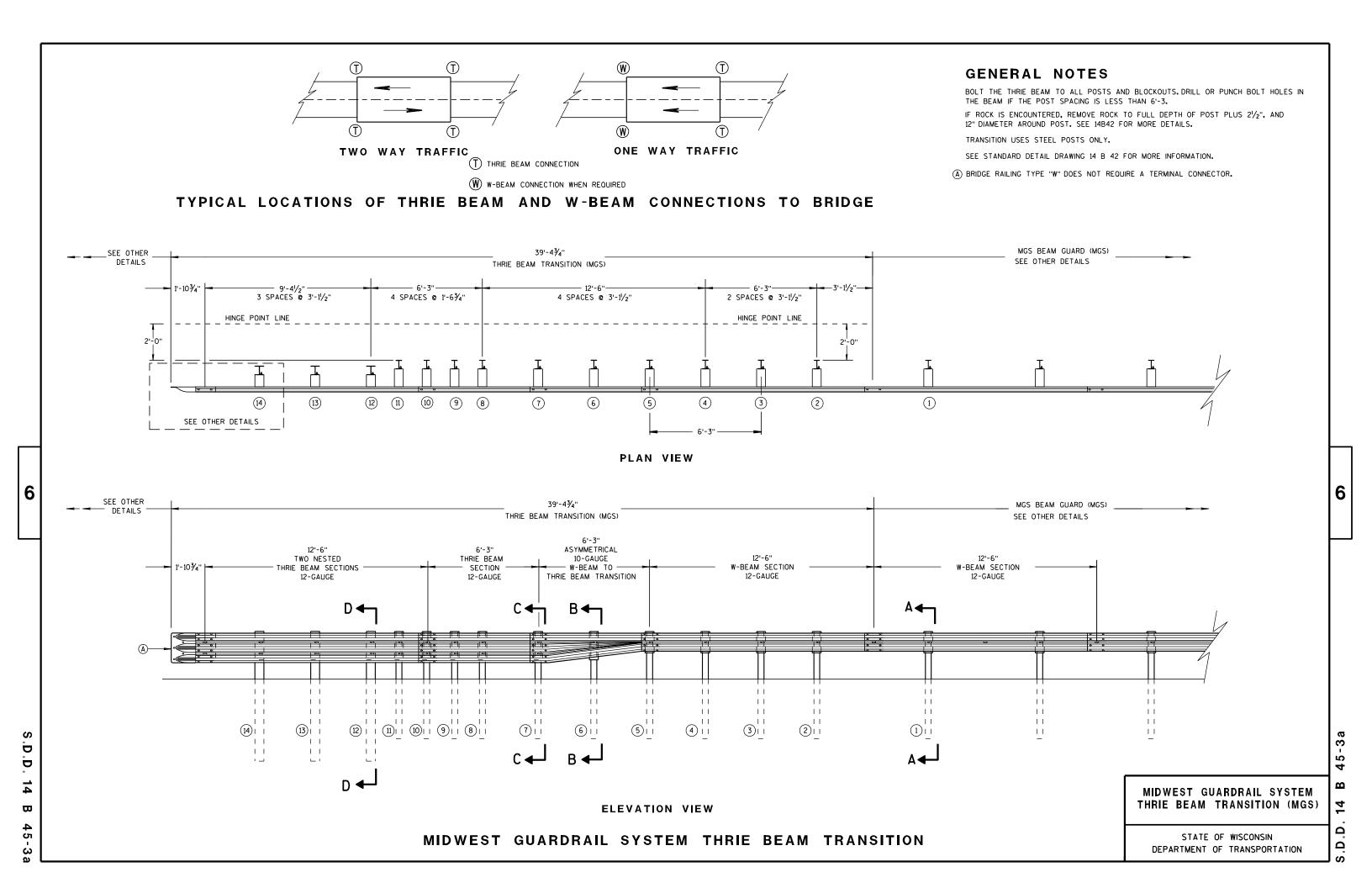


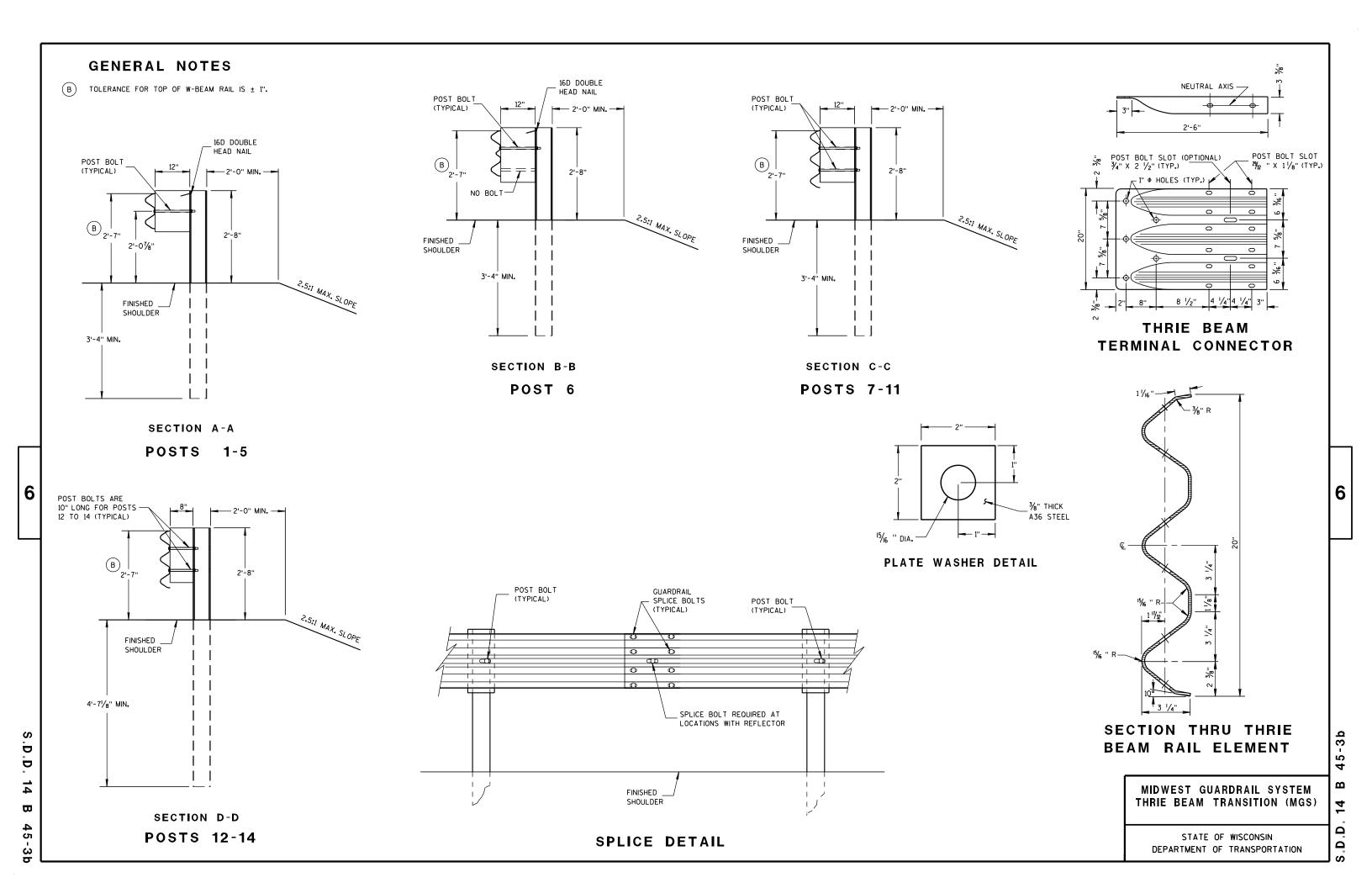
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

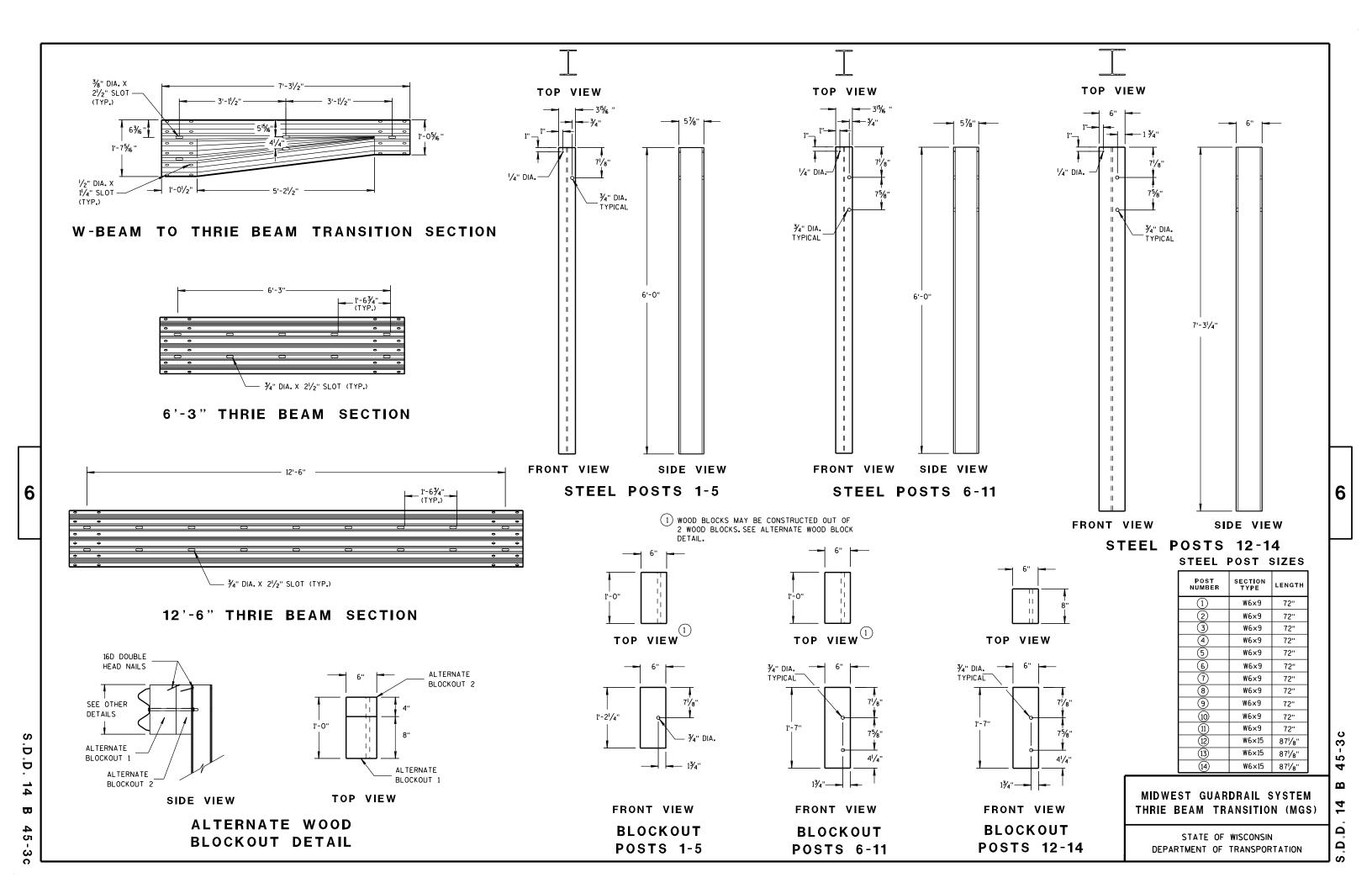
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

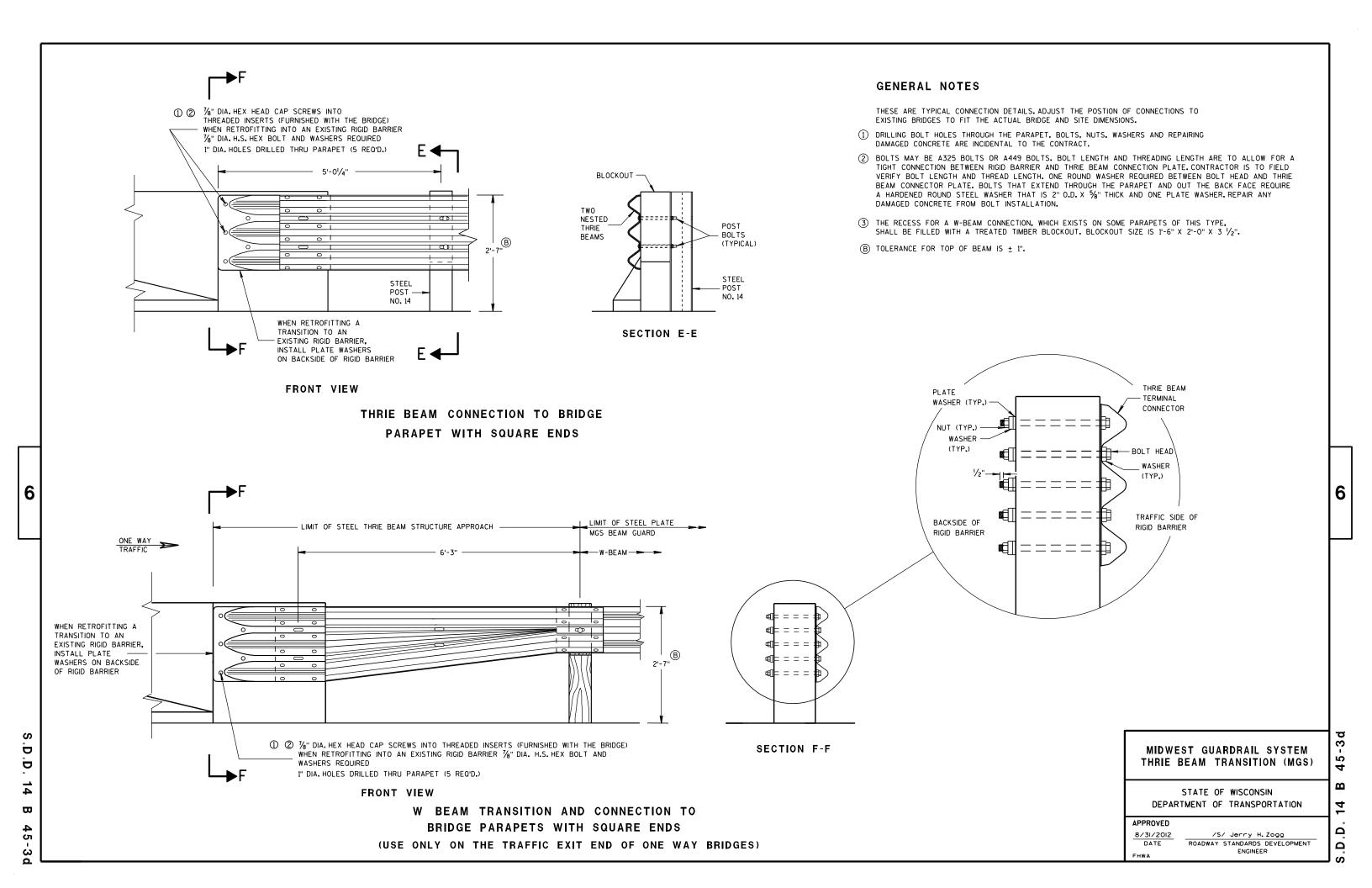
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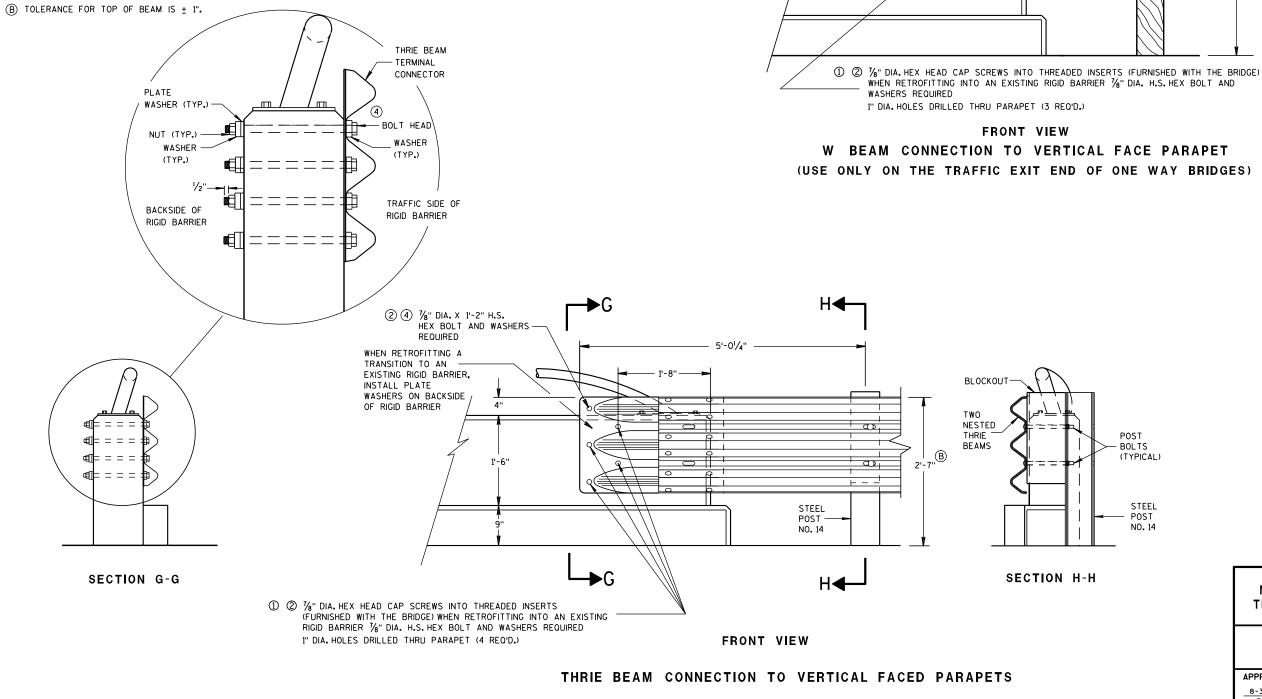




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THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

- (1) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.
- (2) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE, BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5%" THICK AND ONE PLATE WASHER REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.
- (3) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2". BLOCK IS INCIDENTAL TO THE CONTRACT.
- 4 BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.



② 1/8" DIA. X 1'-2" H.S.

REQUIRED

WHEN RETROFITTING

A TRANSITION TO

AN EXISTING RIGID

BARRIFR INSTALL -

PLATE WASHERS

ON BACKSIDE OF

RIGID BARRIER

HEX BOLT AND WASHERS

W BEAM TERMINAL -CONNECTOR

4

LIMIT OF STEEL PLATE

5'-0 1/4" -

4'-2 1/4"

- 3'-1¹/2'

MGS BEAM GUARD

ONE WAY

(B)

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MIDWEST GUARDRAIL SYSTEM

THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

/S/ Jerry H. Zogg

ROADWAY STANDARDS DEVELOPMENT

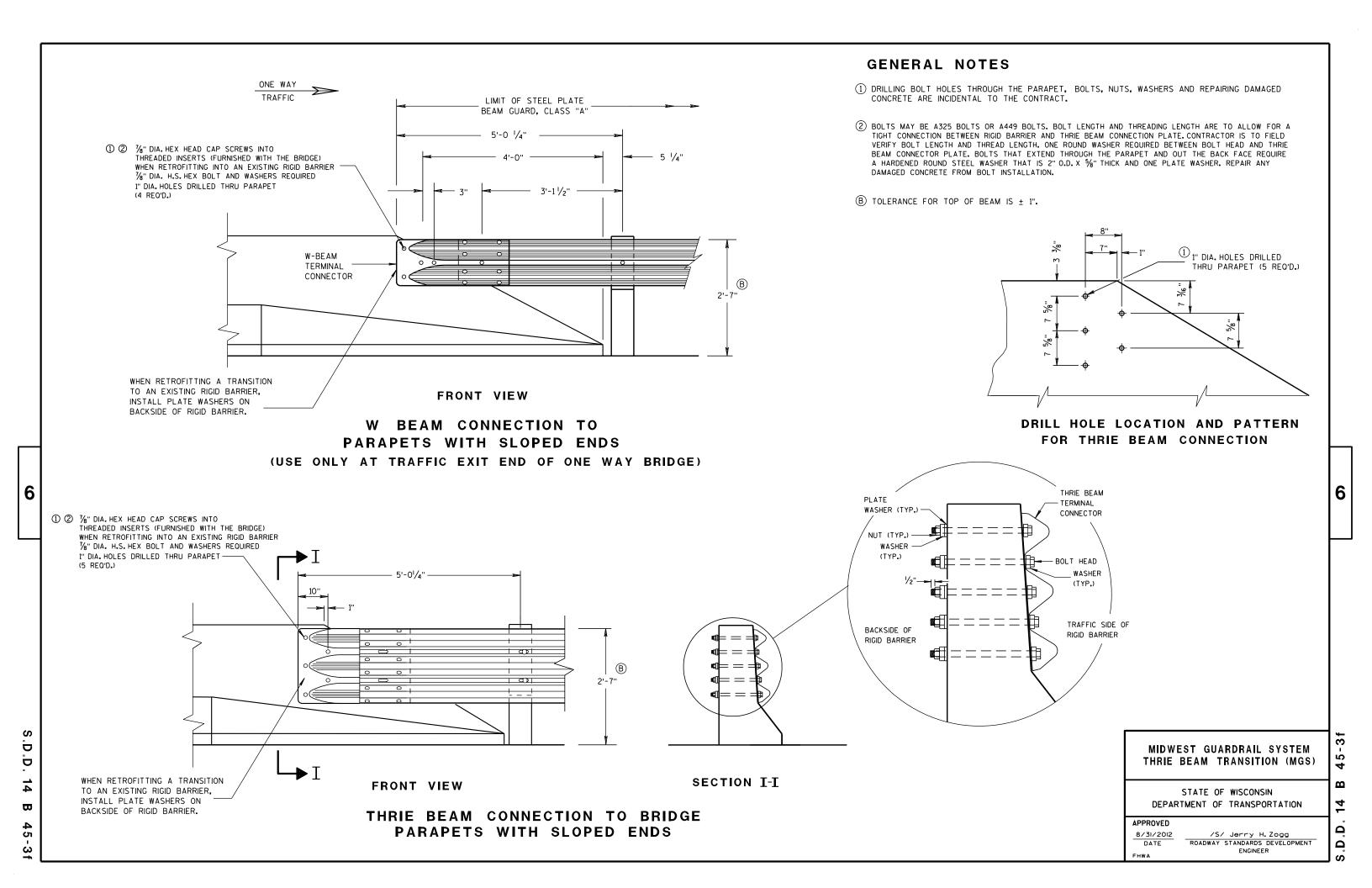
ENGINEER

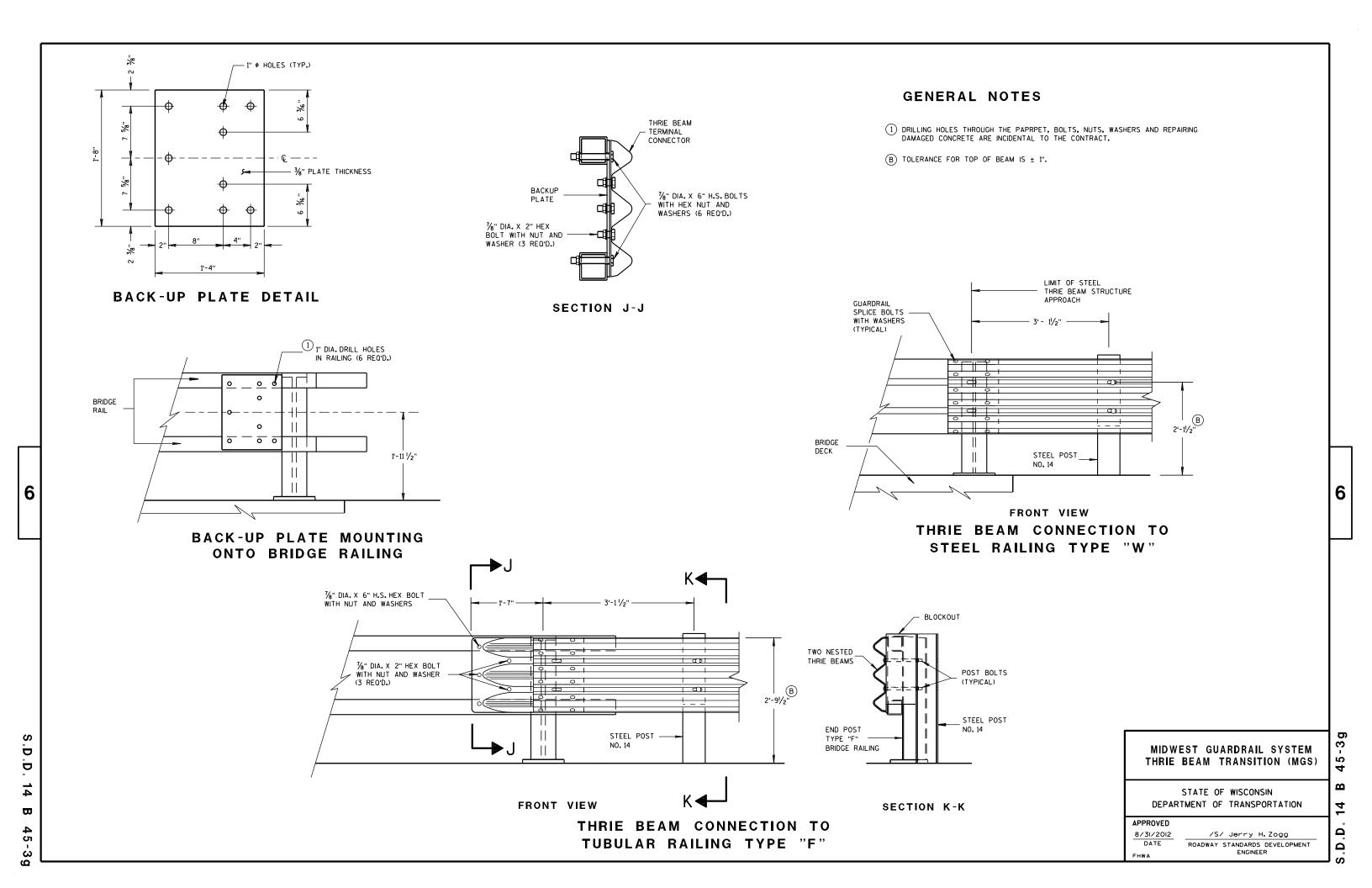
APPROVED

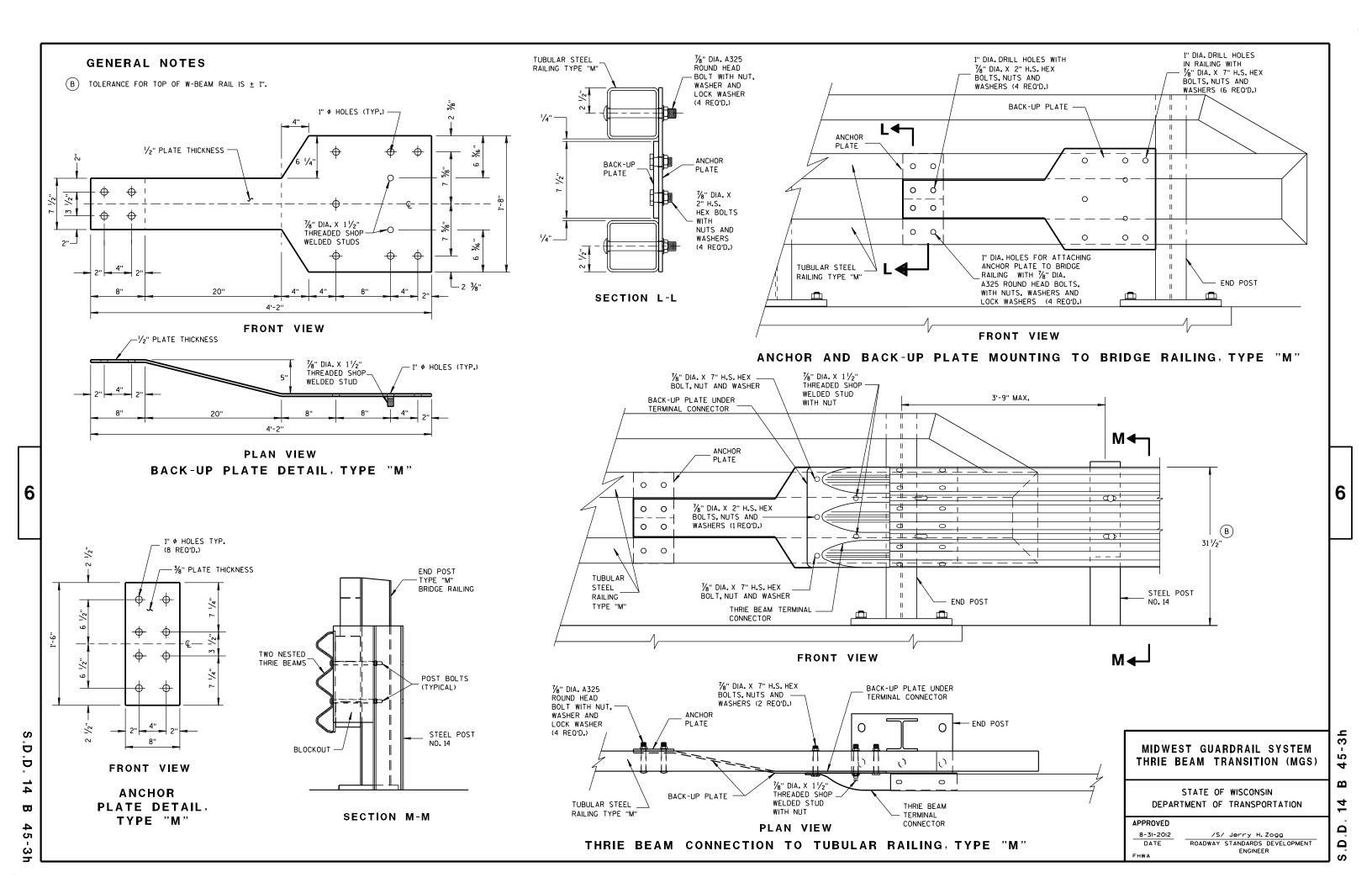
8-31-2012

2'-7"

TRAFFIC







(PER ASSEMBLY)									
PLATE	QUANTITY	SHAPE	SIZE (A × B × C × D)	THICKNESS					
P1	1	в₫	20" × 20"	3/6 "					
P2	1	B∱c	20" × 20" × 28%6"	¾6 "					
Р3	1	B C D	39" × 35/8" × 20" × 191/6"	3∕16 ''					
S1	4	B	18 1/6 " × 3 1/8" × 18 3/4"	1/4"					
S2	1	B C D	10 ¹ / ₄ " × 2 ¹ / ₁₆ " × 10 ³ / ₈ " × ¹ / ₂ "	1/4"					
S3	1	B C D	$3" \times 1^{1}/_{16}" \times 3^{1}/_{8}" \times 1^{1}/_{2}"$	1/4"					
S4	1	вД	6½" × 2½6"	1/4"					
S5	1	В	6½" × ½"	1/4"					
S6	1	В	7¾" × 1¾"	1/4"					
S7	1	ABC	2%6" × 6" × 3%" × 5%"	1/4"					
S8	1	A∰C	1 ⁵ / ₃₂ " × 7 ¹ / ₂ " × 2 ¹ / ₂ " × 7 ³ / ₈ "	1/4"					
S9	1	C ⊏	$6\frac{1}{16}$ " × $6\frac{3}{16}$ " × $1\frac{3}{32}$ "	1/4"					
S10	1	A D C	1%" × 9%" × 3%" × 911/16"	1/4"					
S11	1	C A	8½" × 8¾" × 1⅓6 "	1/4"					

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SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
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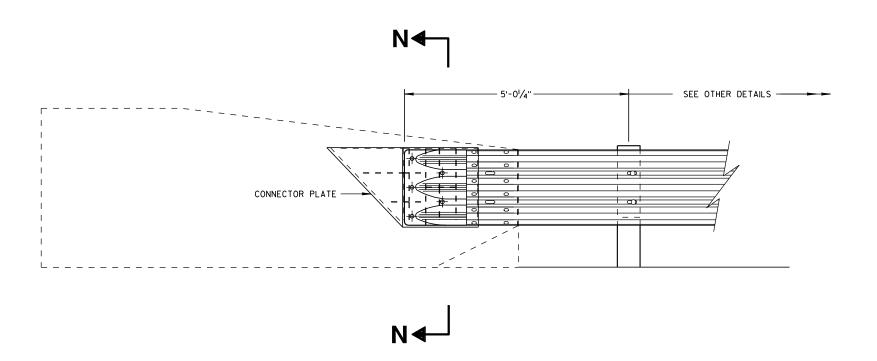
8/31/2012 /S/ Jerry H. Zogg

DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

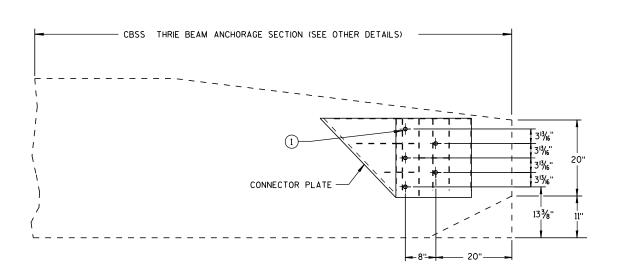
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THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER

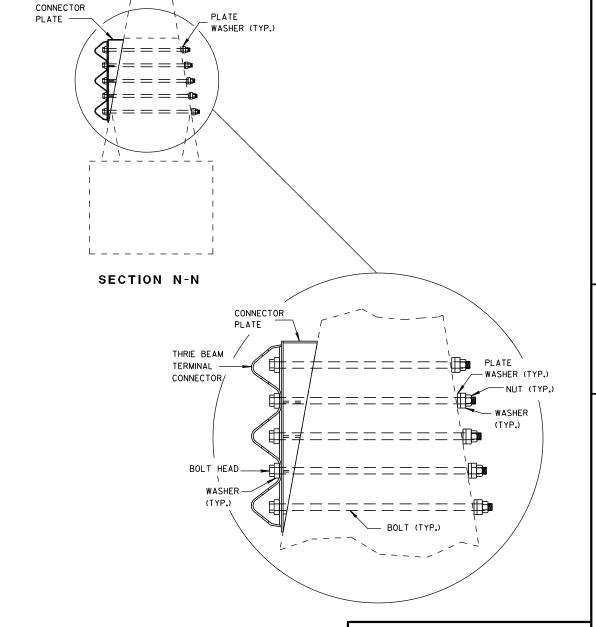


SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

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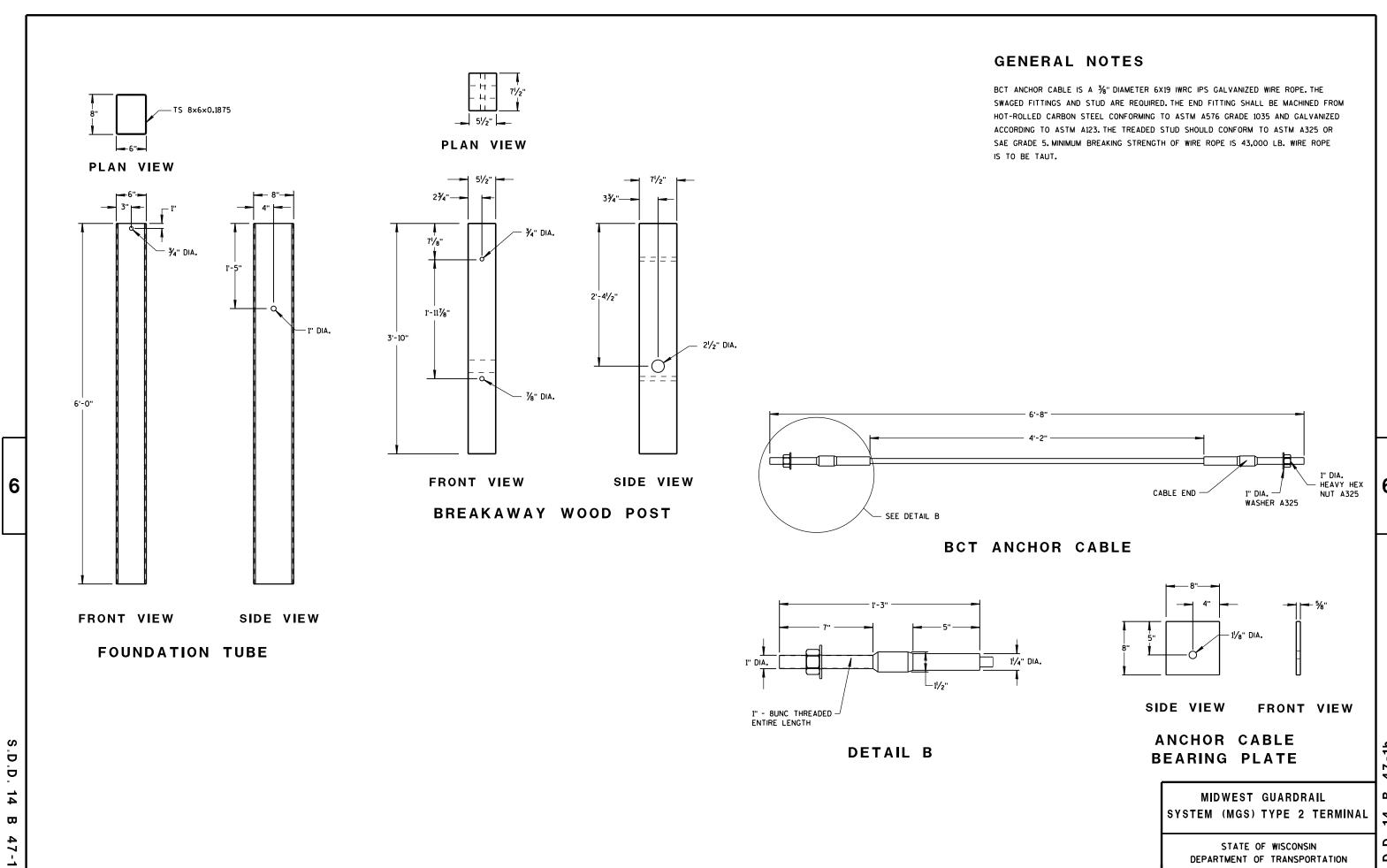
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED 8/31/2012

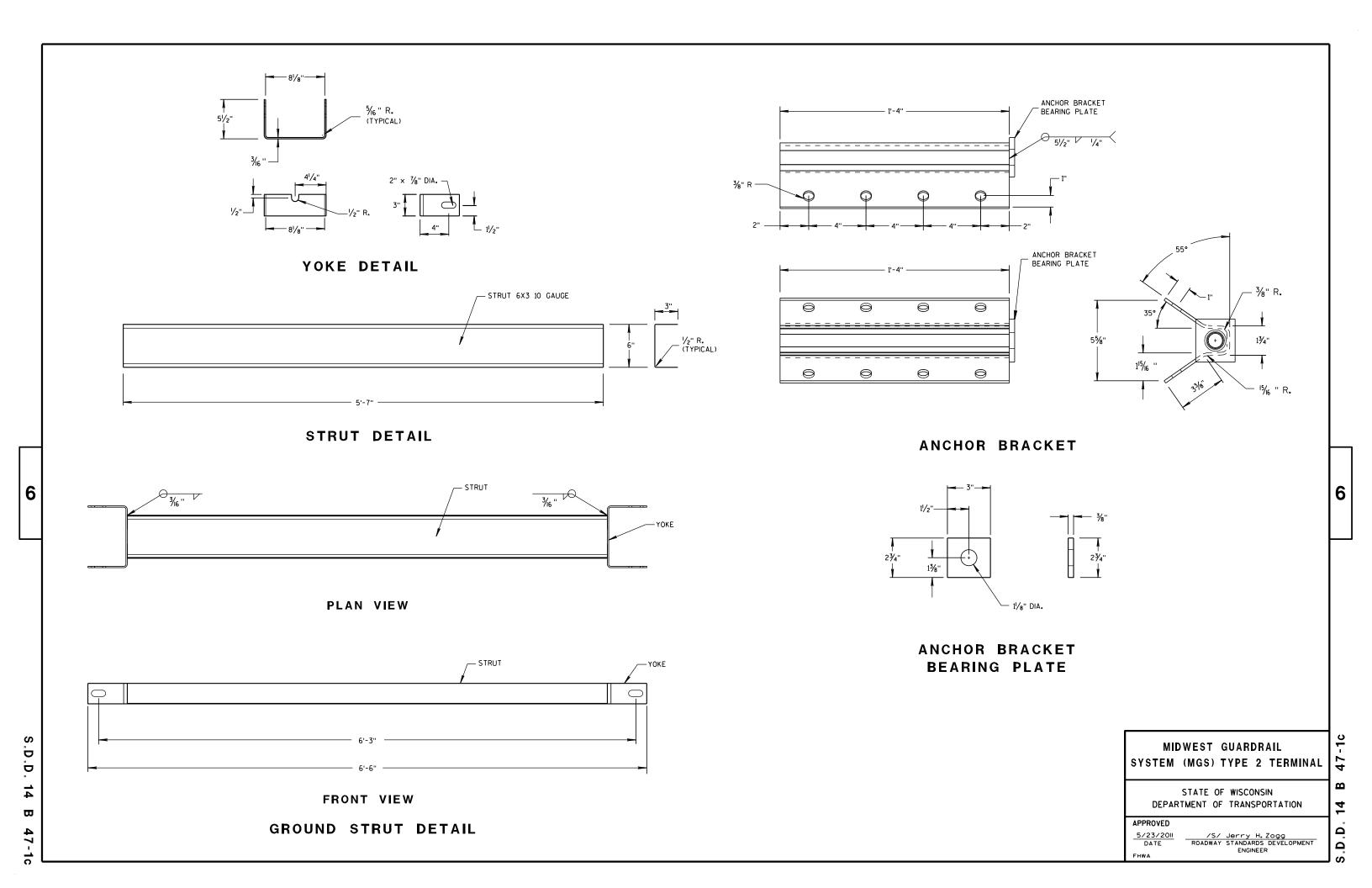
/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER

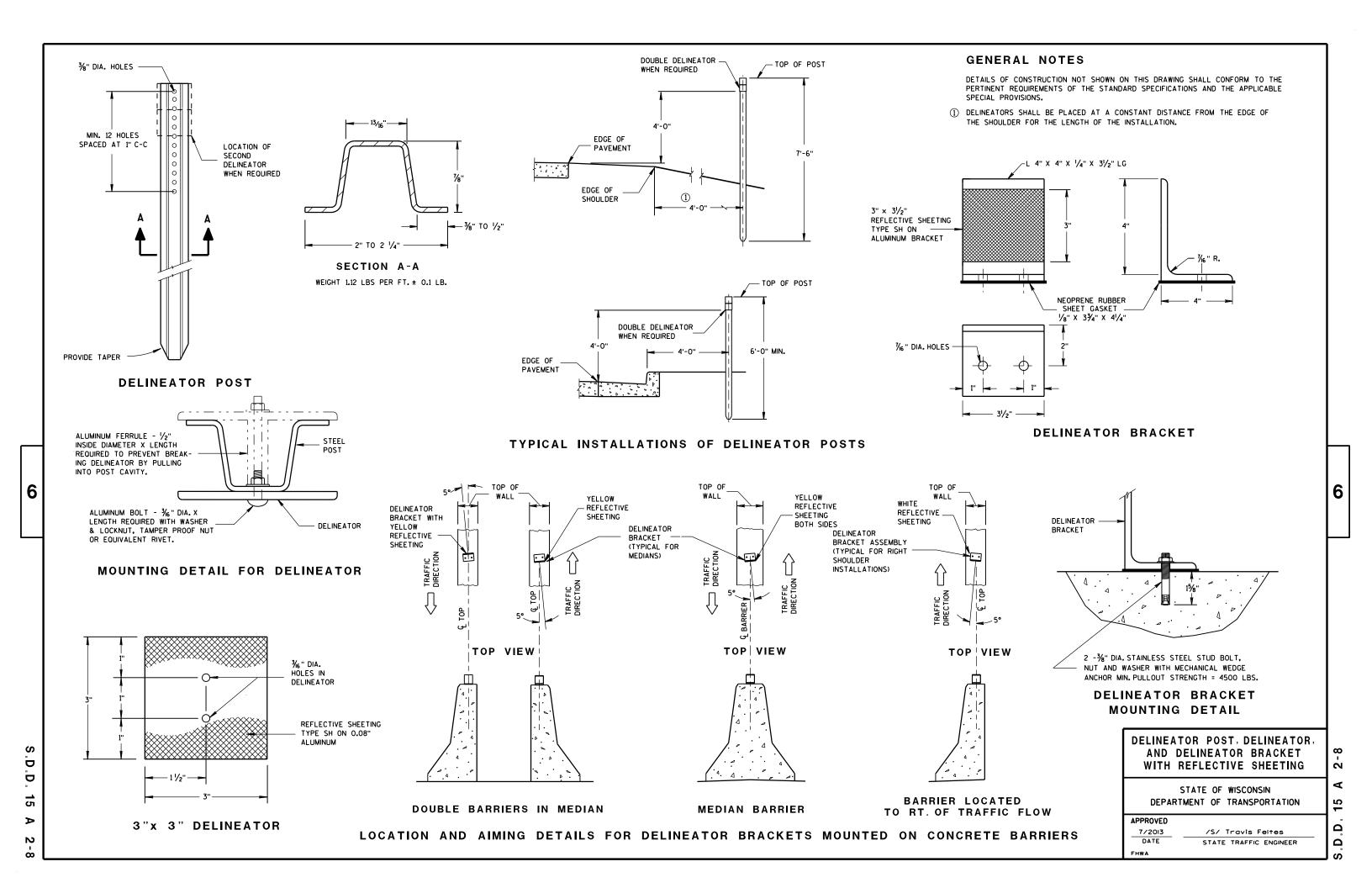
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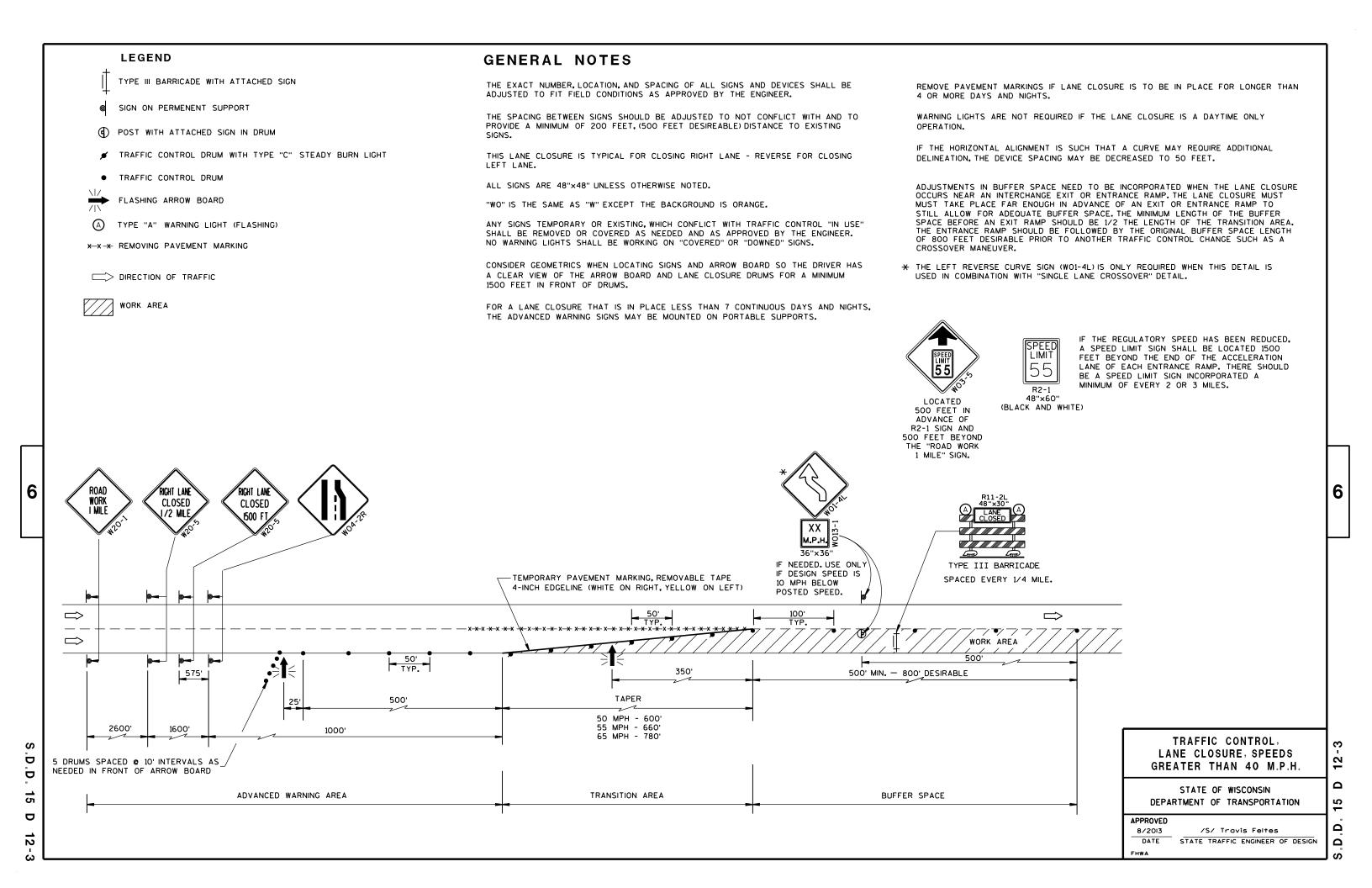
DEPARTMENT OF TRANSPORTATION

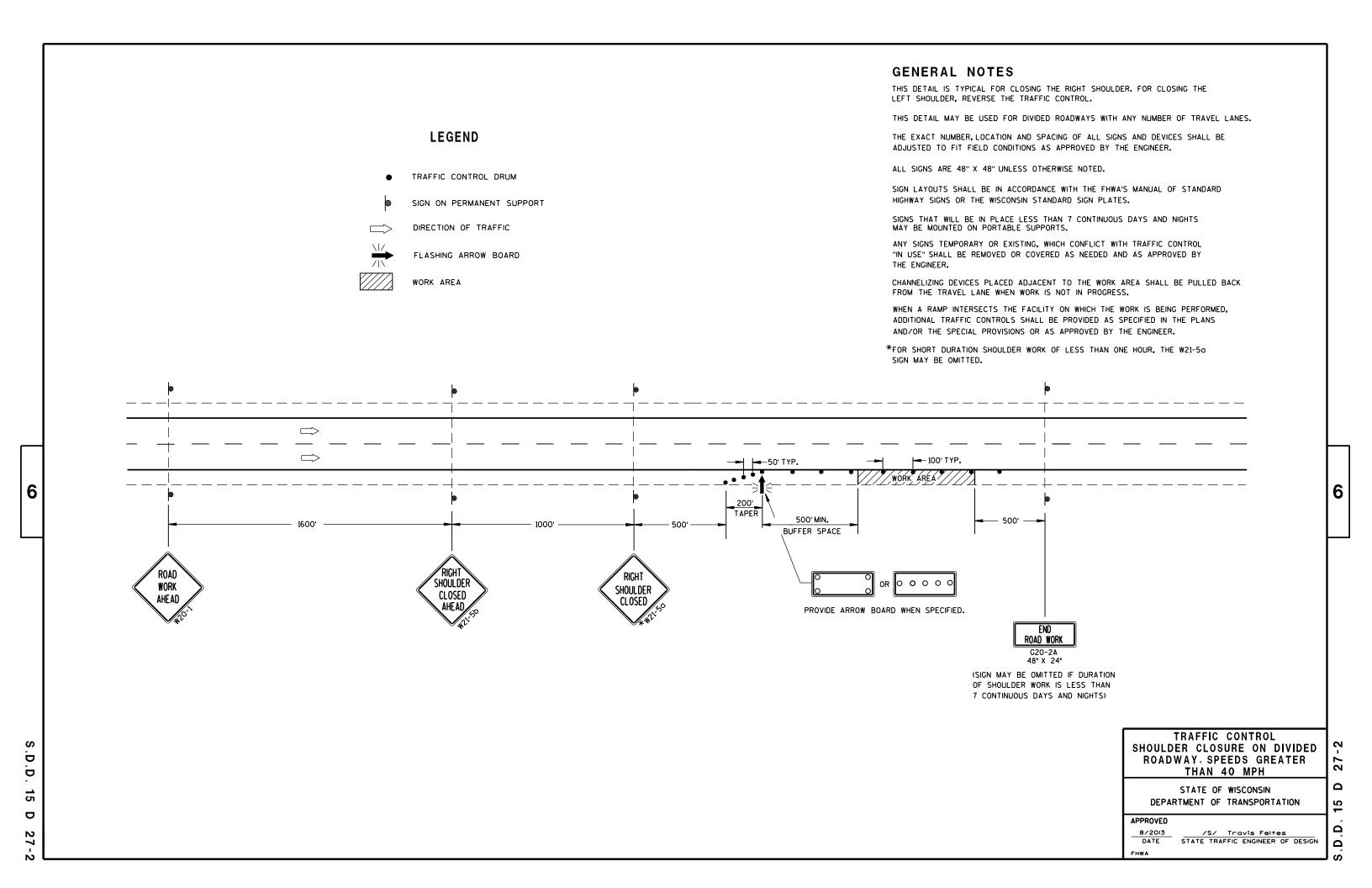


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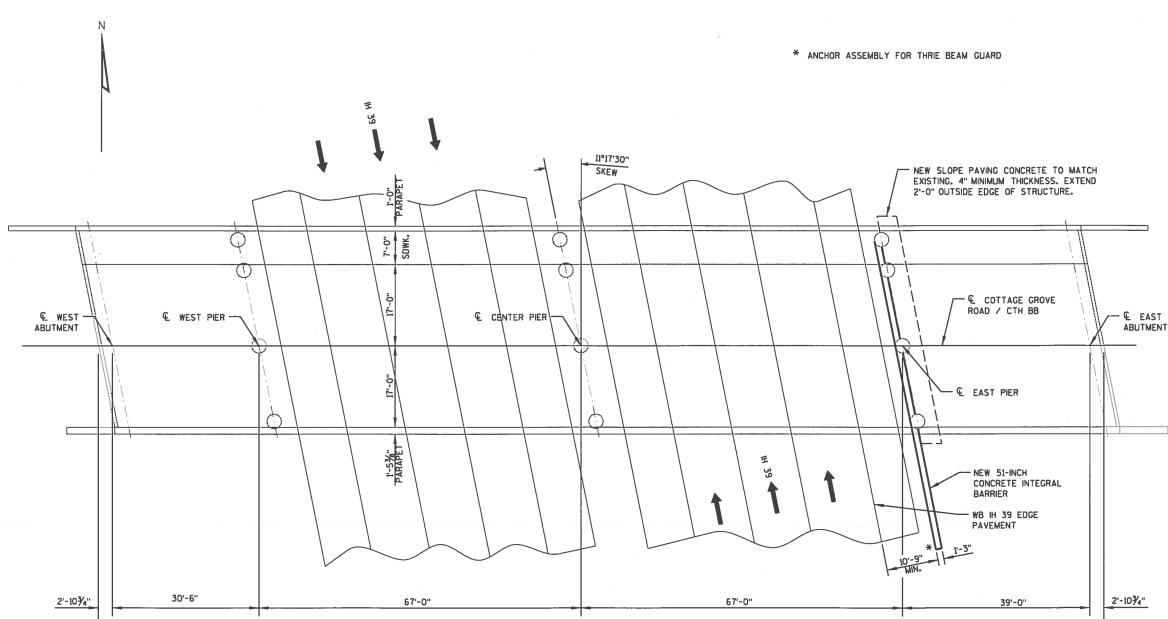








1001-06-73



209'-31/2" BACK TO BACK OF ABUTMENTS

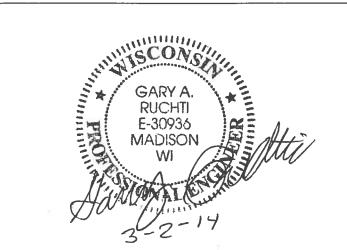
PLAN FOUR-SPAN 36" PRESTRESSED GIRDER BRIDGE

TOTAL ESTIMATED QUANTITIES

8

BID ITEM NO.	BID ITEMS		E PIER	TOTALS
SPV.0090.01	51-INCH CONCRETE INTEGRAL BARRIER	LF	66	66
		Ti .		
	NON BID ITEMS *			
	FILLER	SIZE		1/2"
	CONCRETE MASONRY BRIDGES	CY	27	27
	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	4010	4010
	SLOPE PAVING CONCRETE	SY	20	20
	MASONRY ANCHORS, TYPE S 3/4-INCH	EA	42	42

* QUANTITIES FOR NON BID ITEMS PROVIDED FOR INFORMATION ONLY.



BRIDGE OFFICE CONTACT WILLIAM DREHER, P.E. TELEPHONE: (608) 266-8489 CONSULTANT CONTACT GARY RUCHTI , P.E.

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY ---- -- f'c = 4,000 P.S.I. HIGH-STRENGTH BAR STEEL REINFORCEMENT, GRADE 60 - fy = 60,000 P.S.I.

GENERAL NOTES

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE

DRAWINGS SHALL NOT BE SCALED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

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

BARRIER AND FOOTING SHALL CONSIST OF CAST IN PLACE CONSTRUCTION. NO JOINTS SHALL BE ALLOWED IN THE BARRIER. CONSTRUCTION JOINTS WILL ONLY BE ALLOWED IN THE FOOTING AT LOCATIONS SHOWN IN THE "PLAN VIEW".

DO NOT CUT OR DRILL INTO EXISTING COLUMN BAR STEEL.

ALL REINFORCEMENT SHALL BE EPOXY COATED.

USE 2-INCH MINIMUM BAR CLEARANCE, EXCEPT AT FOOTINGS PROVIDE 3-INCH BAR CLEARANCE FROM BOTTOM OF FOOTING TO BOTTOM TRANSVERSE REINFORCEMENT.

PLACE REINFORCEMENT SUCH THAT IT WILL NOT CONFLICT WITH THE BOLT HOLES IN THE THRIE BEAM TERMINAL

PROVIDE 3/4-INCH BEVEL OR 1-INCH RADIUS ON WALL EDGES, TOP AND ENDS.

PAYMENT FOR SLOPE PAYING CONCRETE INCLUDED IN THE BID ITEM "51-INCH CONCRETE INTEGRAL BARRIER". F.F. = FRONT FACE

B.F. = BACK FACE E.F. = EACH FACE

LIST OF DRAWINGS

GENERAL PLAN -PLAN & ELEVATION VIEWS-CONSTRUCTION DETAILS —



COUNTY DANE TOWN/CITY/WILLAGE MADISON

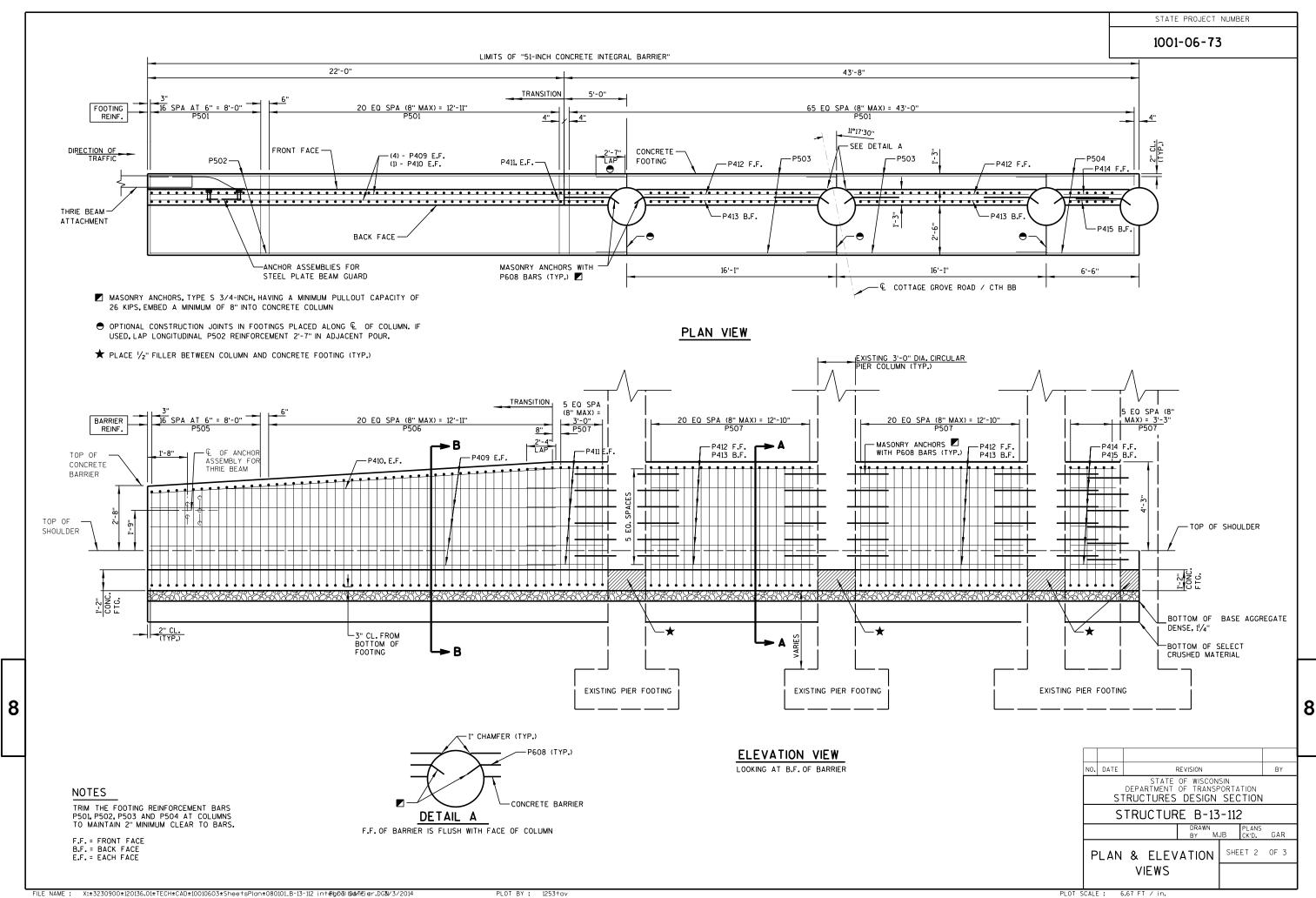
DESIGN SPEC.

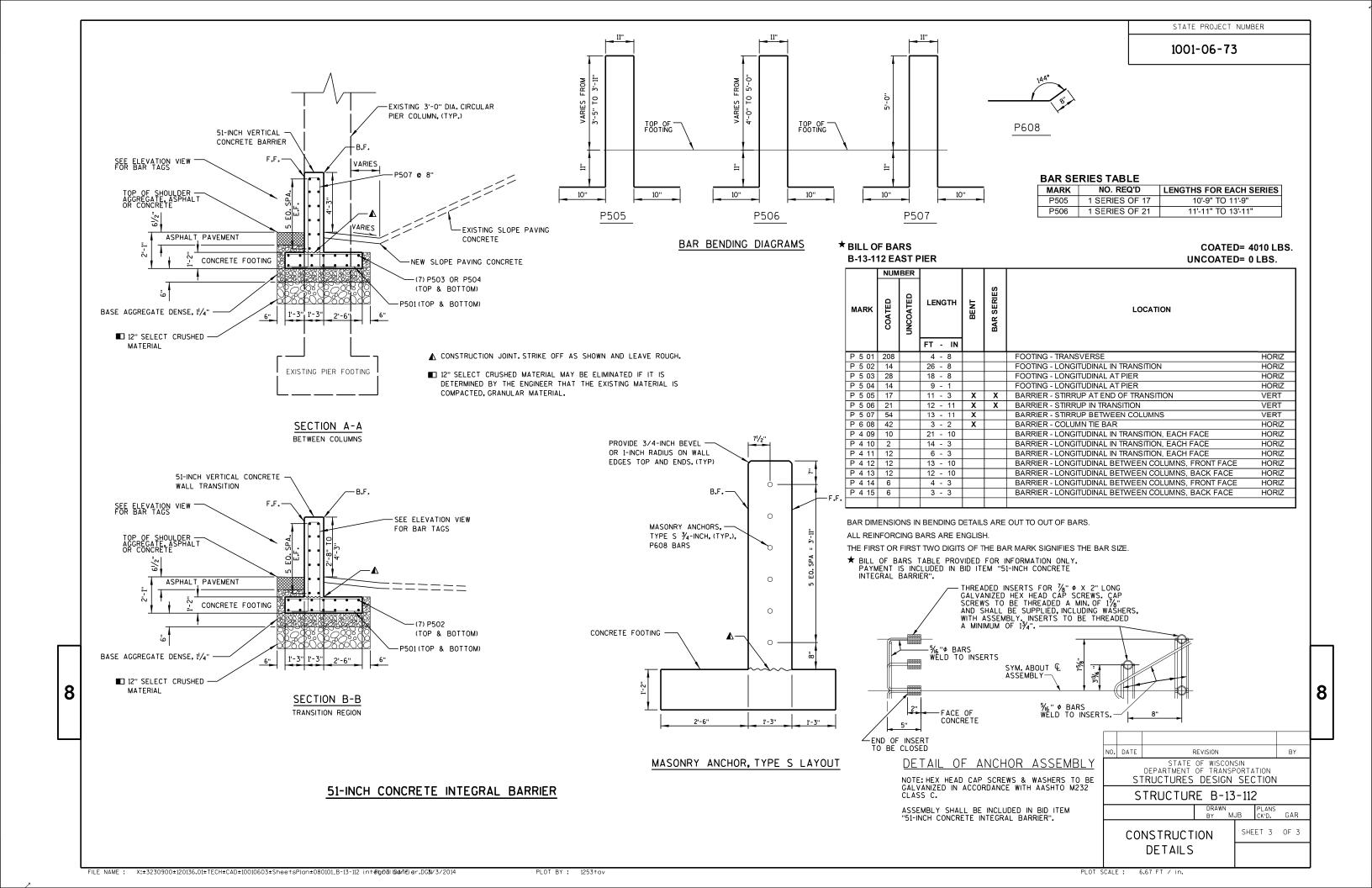
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS DESIGNED DESIGN GAR BY MJB CKD. GAR

> **GENERAL** PLAN

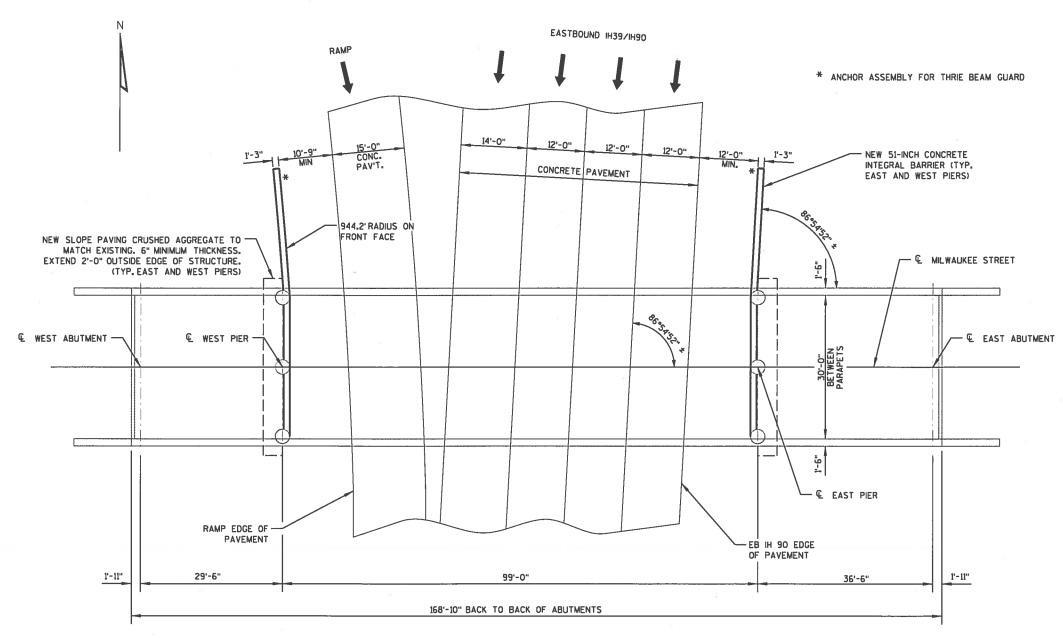
SHEET 1 OF 3

TELEPHONE: (608) 273-6380





1001-06-73



PLAN 3 SPAN - 45" PRESTRESSED GIRDER BRIDGE

TOTAL ESTIMATED QUANTITIES

BID ITEM NO.	BID ITEMS	UNIT	W PIER	E PIER	TOTALS
SPV.0090.01	51-INCH CONCRETE INTEGRAL BARRIER	LF	56	56	112
L	NON BID ITEMS *				
	FILLER	SIZE			1/2"
	CONCRETE MASONRY BRIDGES	CY	23	23	46
	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	3395	3395	6790
	SLOPE PAVING CRUSHED AGGREGATE	SY	16	16	32
	MASONRY ANCHORS, TYPE S 3/4-INCH	EA	30	30	60

* QUANTITIES FOR NON BID ITEMS PROVIDED FOR INFORMATION ONLY.



TELEPHONE: (608) 273-6380

ULTIMATE DESIGN STRESSES:

CONCRETE MASONRY ---- f'c = 4,000 P.S.I. HIGH-STRENGTH BAR STEEL REINFORCEMENT, GRADE 60 --- fy = 60,000 P.S.I.

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BARRIER AND FOOTING SHALL CONSIST OF CAST IN PLACE CONSTRUCTION, NO JOINTS SHALL BE ALLOWED IN THE BARRIER.
CONSTRUCTION JOINTS WILL ONLY BE ALLOWED IN THE FOOTING AT LOCATIONS SHOWN IN THE "PLAN VIEW".

DO NOT CUT OR DRILL INTO EXISTING COLUMN BAR STEEL.

ALL REINFORCEMENT SHALL BE EPOXY COATED.

USE 2-INCH MINIMUM BAR CLEARANCE, EXCEPT AT FOOTINGS PROVIDE 3-INCH BAR CLEARANCE FROM BOTTOM OF FOOTING TO BOTTOM TRANSVERSE REINFORCEMENT.

PLACE REINFORCEMENT SUCH THAT IT WILL NOT CONFLICT WITH THE BOLT HOLES IN THE THRIE BEAM TERMINAL CONNECTOR.

PROVIDE 3/4-INCH BEVEL OR 1-INCH RADIUS ON WALL EDGES.

PAYMENT FOR SLOPE PAVING CRUSHED AGGREGATE INCLUDED IN THE BID ITEM "51-INCH CONCRETE INTEGRAL BARRIER".

F.F. = FRONT FACE B.F. = BACK FACE E.F. = EACH FACE

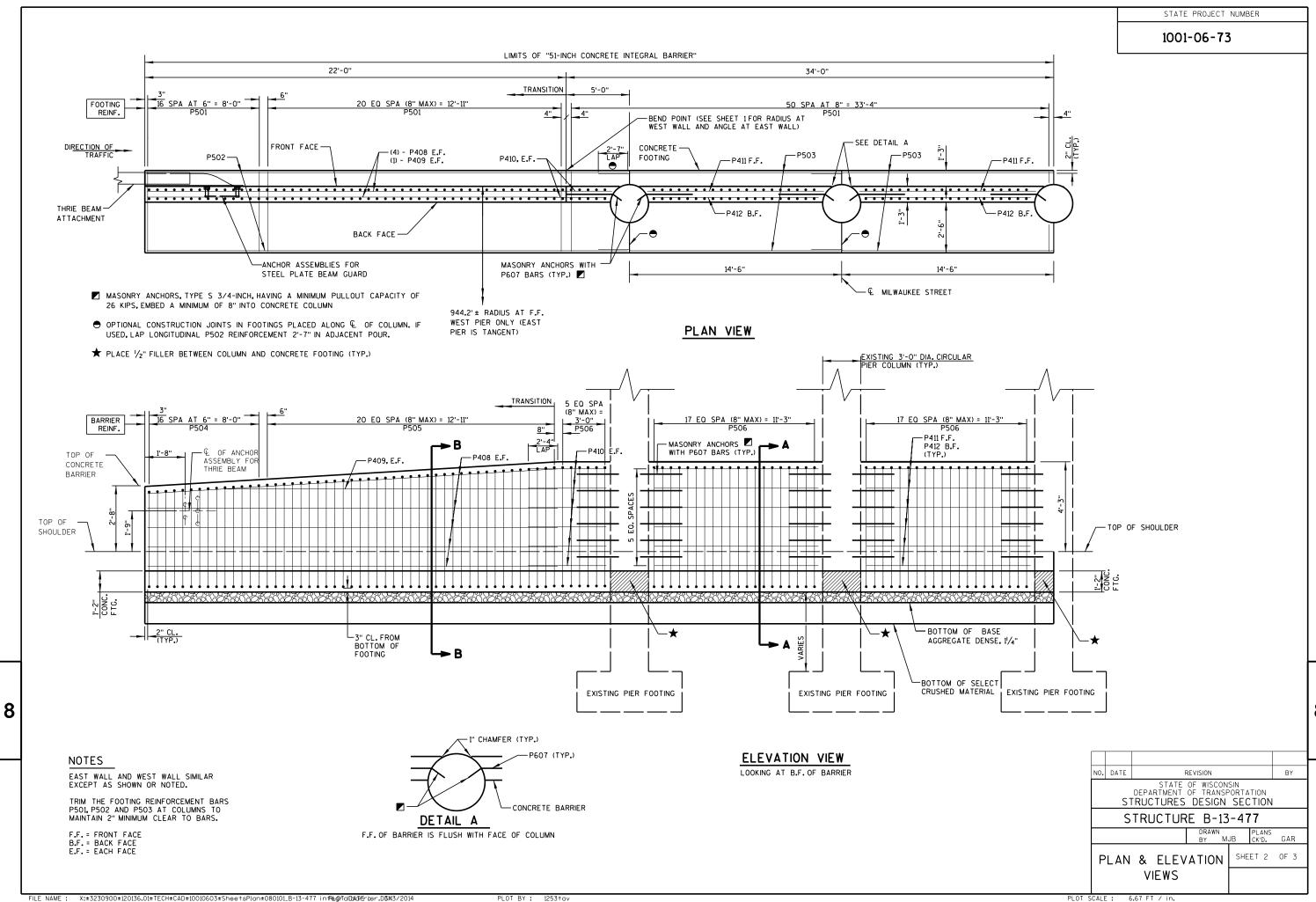
LIST OF DRAWINGS

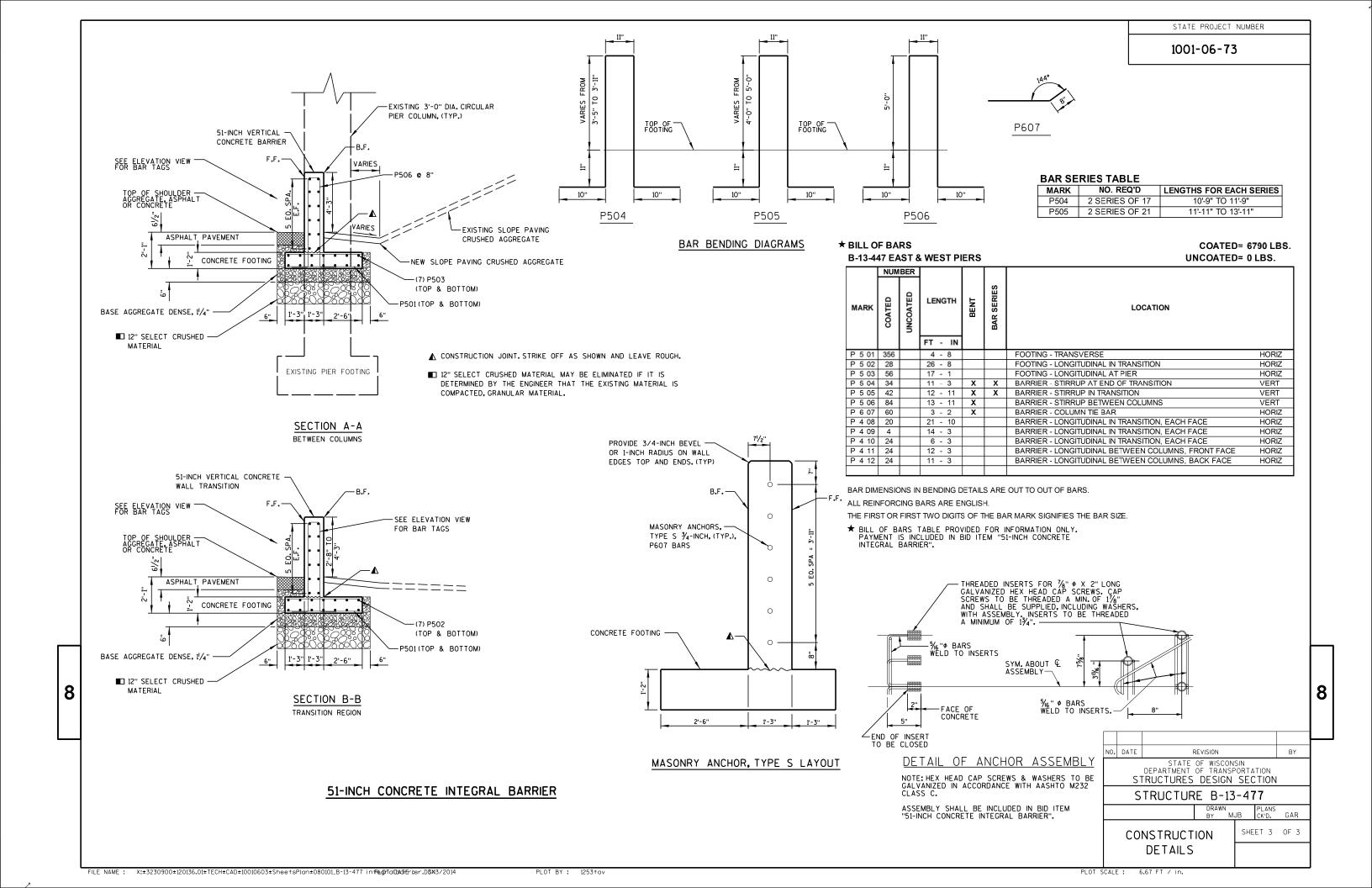
GENERAL PLAN -PLAN & ELEVATION VIEWS-CONSTRUCTION DETAILS



BRIDGE OFFICE CONTACT WILLIAM DREHER, P.F. TELEPHONE: (608) 266-8489 CONSULTANT CONTACT GARY RUCHTI . P.E.

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