ESALS

COUNTY: MARA

March 2013 ORDER OF SHEETS

Section No. 4

Section No. 1 Title

Typical Sections and Details Section No. 2 (Includes Erosion Control Plans)

Section No. 3 Estimate of Quantities Section No. 3 Miscellaneous Quantities

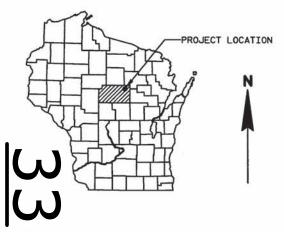
Right of Way Plat Section No. 5 Plan and Profile Section No. 6

Standard Detail Drawings Sign Plates Section No. 7

Section No. 8 Structure Plans Section No. 9 Computer Earthwork Data

Section No. 9 Cross Sections

TOTAL SHEETS = 42



DESIGN DESIGNATION

A.A.D.T. 2013 = 75 A.A.D.T. 2033 = 100 D.H.V. = 13 D.D. = 50/50 = 10% DESIGN SPEED = 45 MPH

CONVENTIONAL SYMBOLS

PLAN CORPORATE LIMITS 1111111 PROPERTY LINE PL + 58.1 LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT REFERENCE LINE EXISTING CULVERT

----CII+---PROPOSED CULVERT (Box or Pipe) COMBUSTIBLE FLUIDS

= 14,600

MARSH AREA

WOODED OR SHRUB AREA

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

PROFILE

CULVERT (Profile View) UTILITIES FI FCTRIC FIRER OPTIC SANITARY SEWER STORM SEWER TELEPHONE UTILITY PEDESTAL POWER POLE

TELEPHONE POLE

9

Ø

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

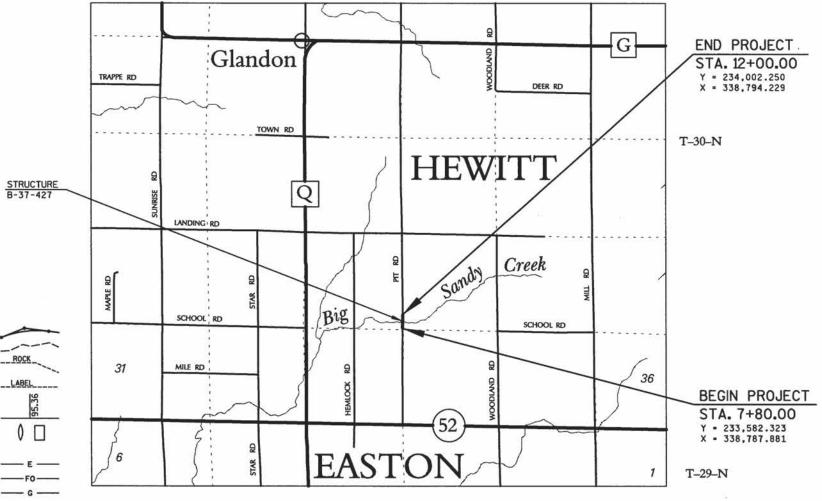
PLAN OF PROPOSED IMPROVEMENT

BIG SANDY CREEK BRIDGE

PIT ROAD, TOWN OF HEWITT

TOWN ROAD **MARATHON COUNTY**

> STATE PROJECT NUMBER 9515-05-70



R-9-E

ACCEPTED FOR

FEDERAL PROJECT

PROJECT

CONTRACT

MARATHON COUNTY

9-28-12

ACCEPTED FOR

TOWN OF HEWITT

STATE PROJECT

9515-05-70

ORIGINAL PLANS PREPARED BY:



ASSOCIATES'

WINGRA DRIVE

WI E-23400 **VERONA**

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY Surveyor

STRAND ASSOCIATES, INC. STRAND ASSOCIATES, INC. Designer

Consultant

C.O. Examine

APPROVED FOR THE DEPARTMENT DATE: 10-23-12

CEDAR CORPORATION

LAYOUT

TOTAL NET LENGTH OF CENTERLINE = 0.080 MI.

0.5 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY

COORDINATE SYSTEM (WCCS), MARATHON COUNTY, HORIZONTAL DATUM NAD 83 (2007). ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO

THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

GENERAL NOTES

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

EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTORS ECIP AND APPROVED BY THE ENGINEER IN CONSULTATION WITH THE DNR. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NECESSARY.

SILT FENCE SHALL BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER AND IN PLACE PRIOR TO CONSTRUCTION

WETLANDS EXIST IN THE PROJECT AREA.DO NOT DISTURB AREAS OUTSIDE THE SLOPE INTERCEPTS.

ALL SIGN LOCATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION.

ANY SIGNS THAT CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE COVERED OR REMOVED AS NEEDED AND APPROVED BY THE ENGINEER, COVERING SIGNS SHALL BE PAID FOR AS TRAFFIC CONTROL COVERING SIGNS TYPE II, REMOVING SIGNS SHALL BE PAID FOR AS REMOVING SIGNS TYPE II,

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE RESTORED AS DIRECTED BY THE ENGINEER.

FILL QUANTITIES HAVE BEEN EXPANDED BY A FACTOR OF 1.25 ON YARDAGE SHEETS.

3.5-INCH ASPHALTIC SURFACE SHALL BE CONSTRUCTED WITH ONE 1.75-INCH LOWER LAYER AND ONE 1.75-INCH UPPER LAYER. THE LOWER LAYER SHALL USE 12.5 MM NOMINAL SIZE AGGREGATE AND THE ASPHALTIC CEMENT MATERIAL SHALL BE PG58-28. THE UPPER LAYER SHALL USE 12.5 MM NOMINAL SIZE AGGREGATE AND THE ASPHALTIC CEMENT MATERIAL SHALL BE PG58-28.

THE WISCONSIN DEPARTMENT OF TRANSPORTATION WILL FURNISH THE CONTRACTOR A MONUMENT WHICH SHALL BE SET IN THE STRUCTURE AS DESIGNATED BY THE ENGINEER IN THE FIELD.

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

WHEN THE QUANTITIY OF THE ITEM OF BASE LAYER IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

ABBREVIATIONS

ABUT ABUTMENT

AADT ANNUAL AVERAGE DAILY TRAFFIC

BF BACK FACE
BM BENCH MARK
BOC BACK OF CURB
CTR CENTER
CL CENTERLINE
D LANE DISTRIBUTION
DD DIRECTIONAL DISTRIBUTION
DHY DESIGN HOURLY VOLUME

DIA DIAMETER
DIM DIMENSION
DS DESIGN SPEED

EAT ENERGY ABSORBING TERMINAL

EL OR ELEV ELEVATION
ESALS EQUIVALENT SINGLE AXLE LOADS

EXC EXCAVATION
FF FRONT FACE
MAX MAXIMUM
MIN MINIMUM
MPH MILES PER HOUR

 NORM
 NORMAL

 OH
 OVERHEAD POWER LINE

 PL
 PROPERTY LINE

 POL
 POINT ON LINE

 REO'D
 REQUIRED

 RDWY
 ROADWAY

RHF RIGHT HAND FORWARD
SE SUPERELEVATION
SPA SPACE
STA STATION
SYM SYMMETRICAL
T PERCENT TRUCKS
TYP TYPICAL
V DESIGN SPEED
VAR VARIES



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

** DENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBERS

DESIGN CONTACT

DAVID WALKER
STRAND ASSOCIATES, INC.
910 W. WINGRA DRIVE
MADISON, WI 53715
PH: (608) 251-4843
EMAIL: david.walker@strand.com

MARATHON COUNTY

JAMES GRIESBACH
MARATHON COUNTY HIGHWAY COMMISSIONER
1430 WEST STREET
WAUSAU, WI54401
PH: (715) 261-1800
EMAIL: Jmgriesbach@mail.co.marathon.wi.us

WISDNR CONTACT

MARC HERSHFIELD
WISCONSIN DEPARTMENT OF NATURAL RESOURCES
473 GRIFFITH AVENUE
WISCONSIN RAPIDS, WI54494
PH: (715) 421-7867
EMAIL: morc.hershfield@wisconsin.gov

PROJECT NO: 9515-05-70

HWY: TOWN ROAD

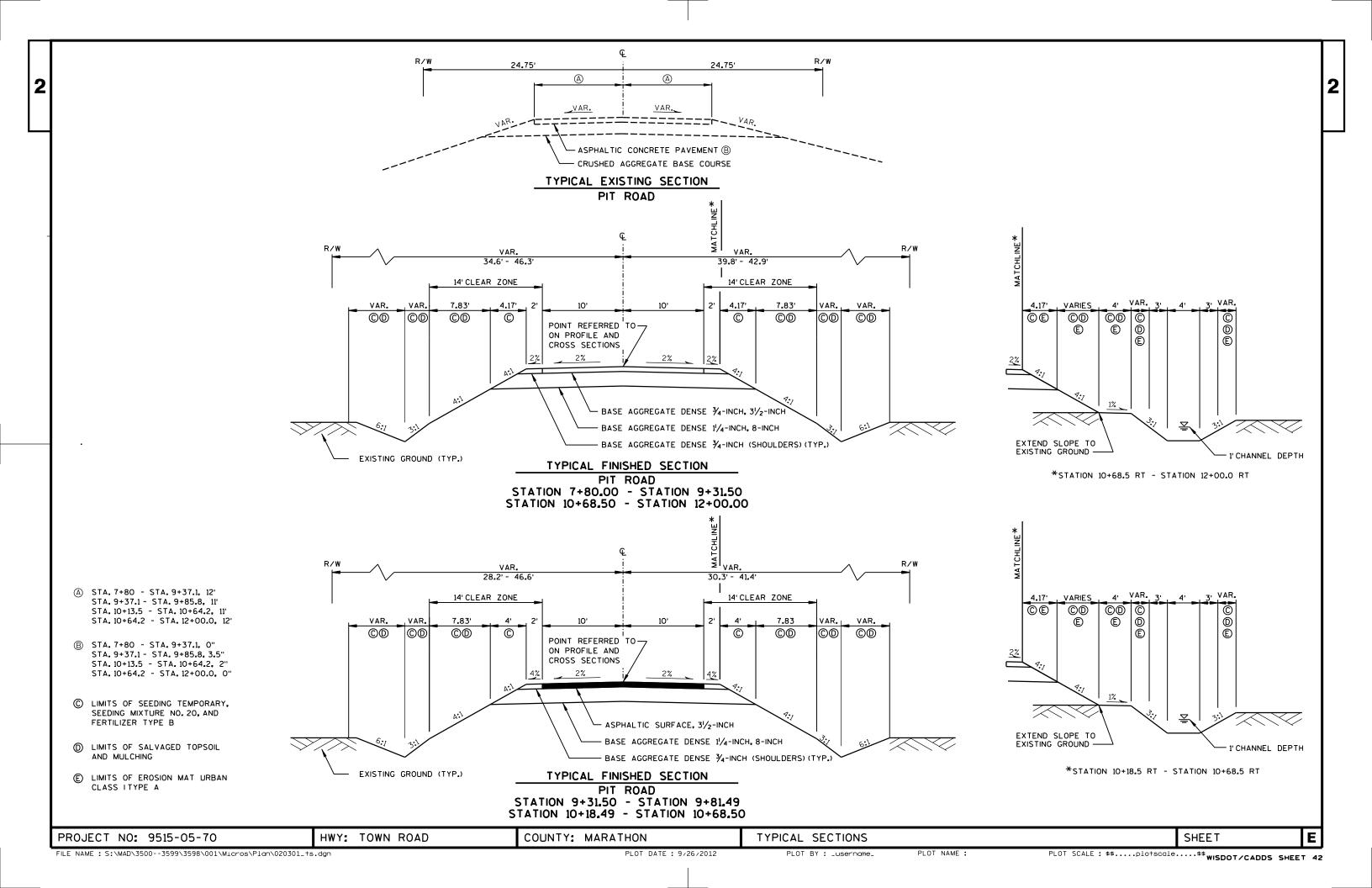
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COUNTY: MARATHON

GENERAL NOTES

PLOT BY : _username_

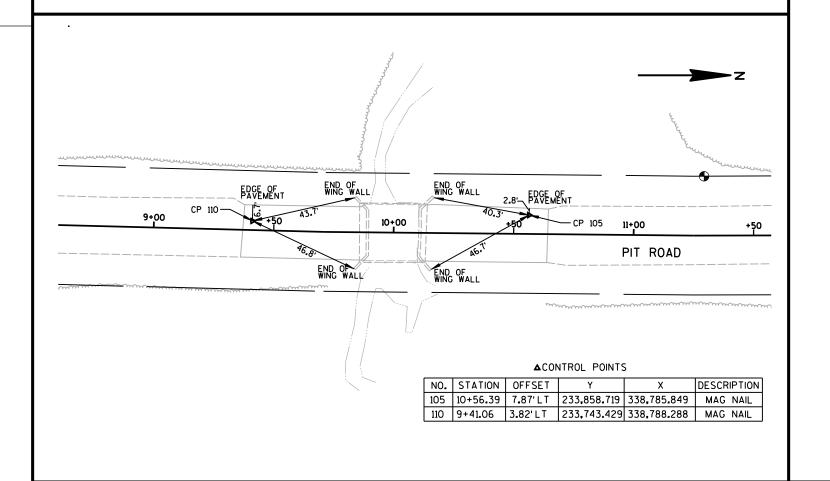
SHEET



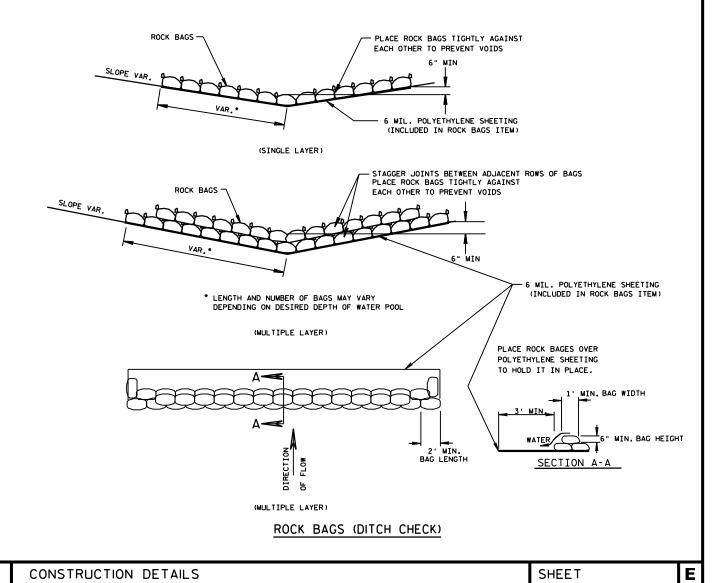
DETAIL FOR EXCAVATION BELOW SUBGRADE

HYDROLOGIC SOIL GROUP С D SLOPE RANGE (PERCENT) SLOPE RANGE (PERCENT) SLOPE RANGE (PERCENT) SLOPE RANGE (PERCENT) LAND USE: 0-2 2-6 6 & OVER 2-6 6 & OVER 2-6 6 & OVER 2-6 6 & OVER 0-2 0-2 0-2 .08 .20 ROW CROPS .16 .22 .12 .27 .15 .24 .33 .19 .28 .38 .22 .26 .34 .30 .37 .56 .30 .38 .44 .50 .34 .41 .22 .23 MEDIAN STRIP .19 .20 .24 .19 .26 .20 .30 .20 .25 .30 .32 .28 TURF .24 .26 .30 .25 .33 .26 .30 .37 .27 .40 .27 SIDE SLOPE-.25 .28 .30 TURF .38 .32 .34 .36 PAVEMENT: **ASPHALT** .70 - .95 CONCRETE .80 - .95 BRICK .70 - .80 .75 - .85 DRIVES, WALKS .75 - .95 GRAVEL ROADS, SHOULDERS .40 - .60

TOTAL PROJECT AREA = 0.83 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.70 ACRES



HWY: TOWN ROAD



FILE NAME: S:\MAD\3500--3599\3598\001\Micros\Plan\021001_cd.dgn

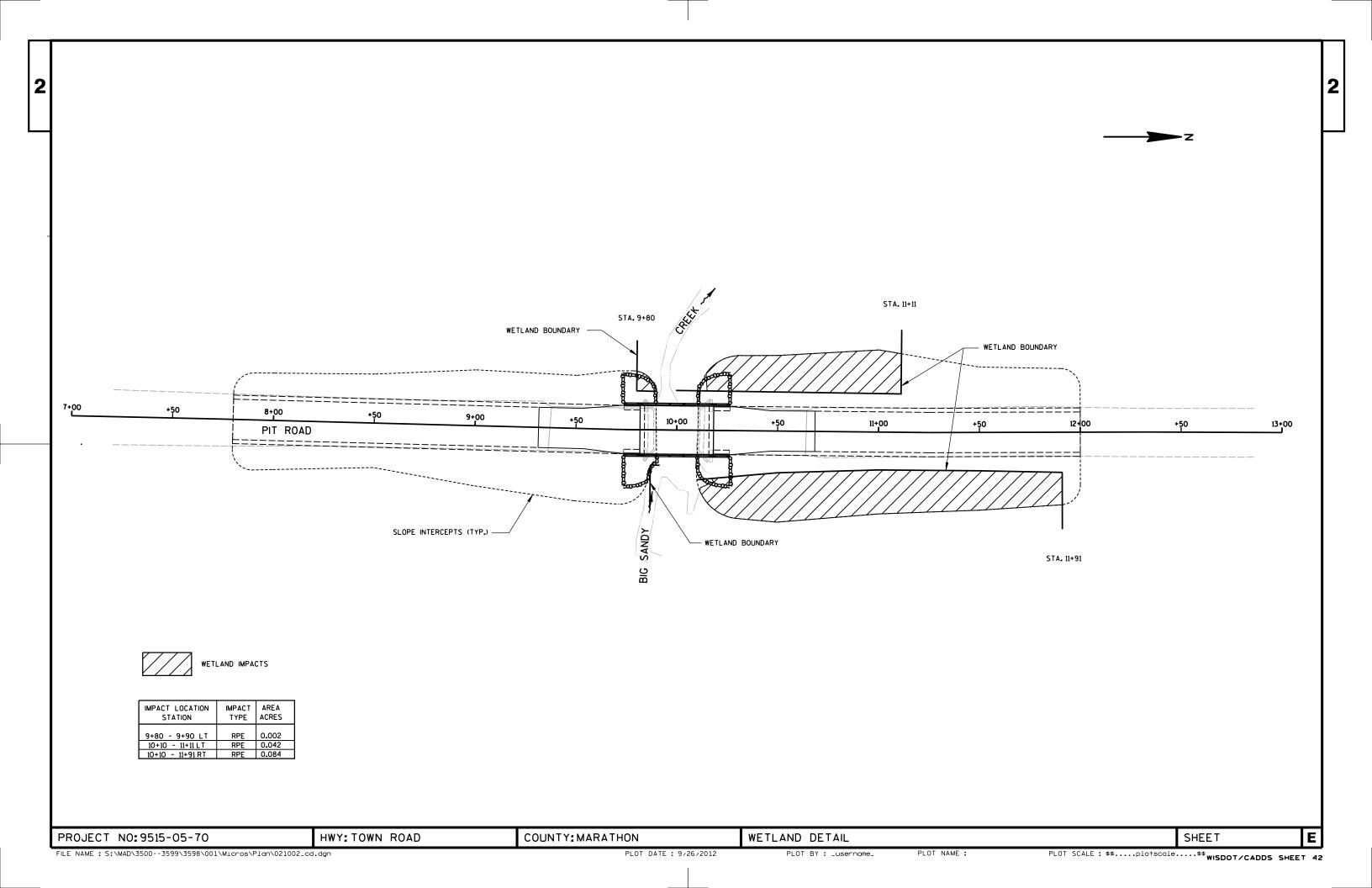
PROJECT NO: 9515-05-70

COUNTY: MARATHON

PLOT BY: _username_

PLOT NAME :

PLOT SCALE: \$\$.....plotscale.....\$\$ wisdot/CADDS SHEET 42



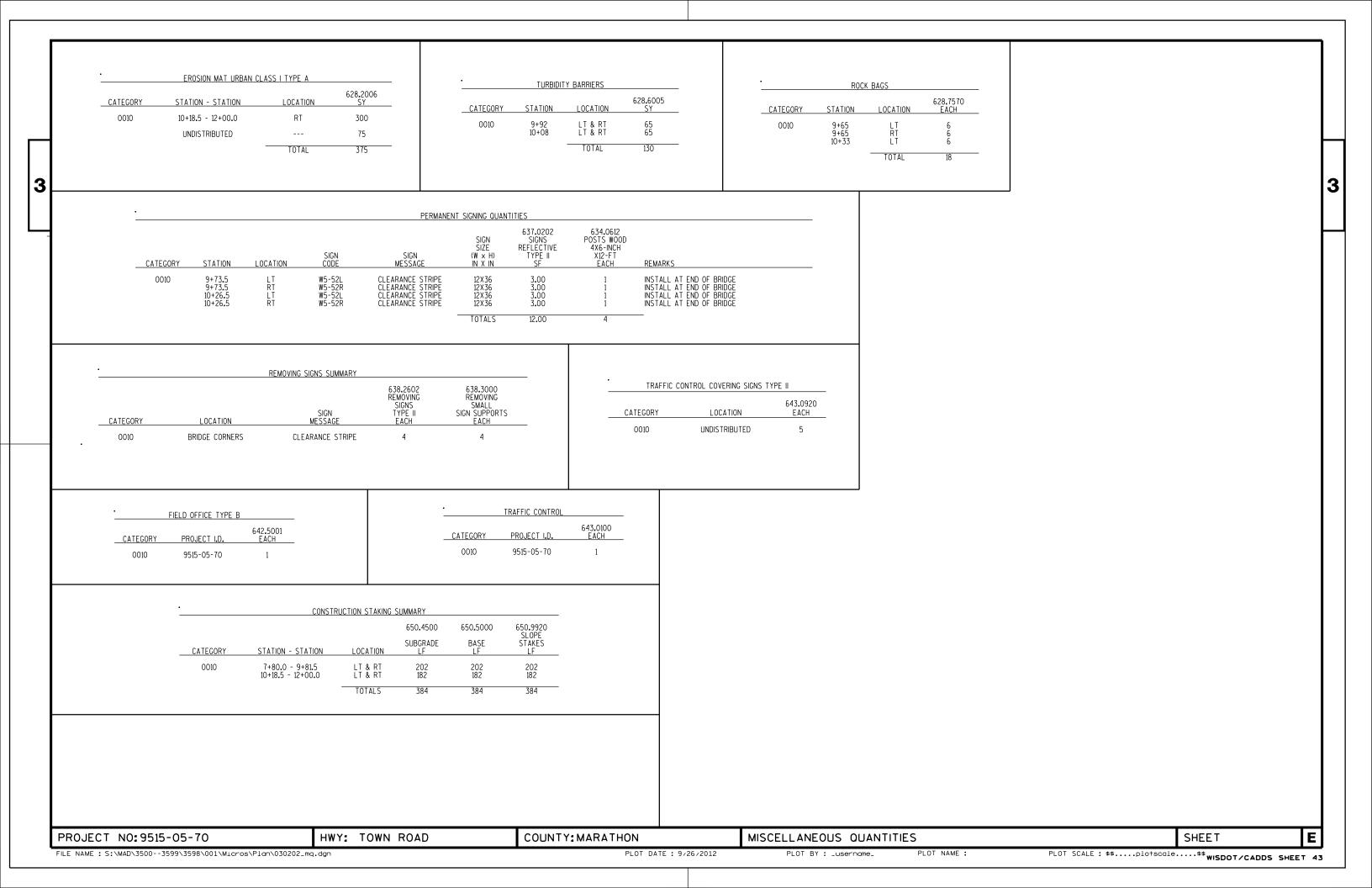
STA. 12+00.00 STA. 9+73.49 STA. 10+26.49 12.00' L T 12.00' L T 12.00'LT STA. 7+80.00 STA. 7+80.00 STA. 9+52.95 STA. 12+00.00 10**.**00' L T 12.00' L T 10.00' L T 10.00'LT STA. 10+46.49 10.00'LT EXIST. R/W STA. 9+31.50 STA. 10+68.50 10.00' L T 10.00' L T 7+00 +50 8+00 9+00 +50 10+00 13+00 PIT ROAD STA. 10+68.50 10<u>.</u>00' RT STA. 9+31.50 10.00' RT STA. 7+80.00 EXIST.R/W STA. 7+80.00 12.00' RT 10.00' RT STA. 12+00.00 STA. 9+54.09 SANDY 10.00' RT — B-37-427 STA. 10+46.49 10.00' RT 10.00' RT STA. 9+73.49 STA. 12+00.00 12.00' RT 12.00' RT **STA.** 10+26.49 BIG 12.00' RT LEGEND **←--←-** TURBIDITY BARRIER ----- SLOPE INTERCEPT == ROCK BAGS (DITCH CHECK) ##### EROSION MAT CLASS ITYPE A PROJECT NO: 9515-05-70 HWY: TOWN ROAD COUNTY: MARATHON E LAYOUT AND EROSION CONTROL DETAIL SHEET PLOT SCALE: \$\$.....plotscale.....\$\$ wisdot/cadds SHEET 42 PLOT NAME : FILE NAME: S:\MAD\3500--3599\3598\001\Micros\Plan\022001_ec.dgn PLOT DATE: 9/26/2012 PLOT BY : _username_

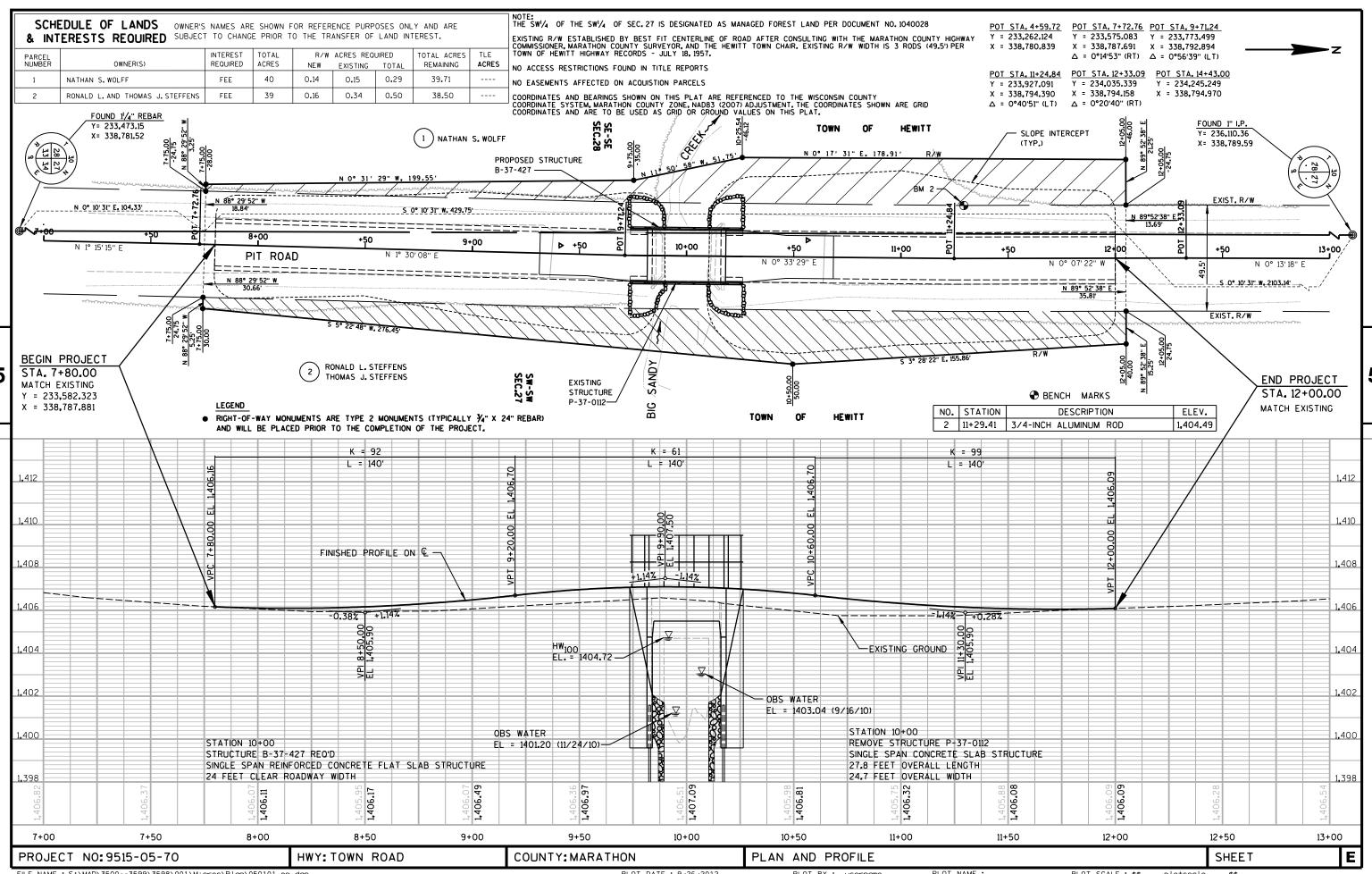
DATE 09	JAN13	E S 7	ГІМАТ	E O F Q U A N			
LINE NUMBER	TTEM	TTEM DESCRIPTION	UNITT	TOTAL	9515-05-70)	
0010	201.0105	ITEM DESCRIPTION CLEARING	UNIT STA	TOTAL 5.000	QUANTITY 5.000		
0020	201.0205	GRUBBING	STA	5.000	5.000		
0030		REMOVING OLD STRUCTURE OVER WATERWAY	LS	1.000	1.000		
		WITH MINIMAL DEBRIS (STATION) 01. 10+00					
0040	205.0100	EXCAVATION COMMON *P*	CY	450.000	450.000		
0050	206.1000	EXCAVATION FOR STRUCTURES BRIDGES	LS	1.000	1.000		
		(STRUCTURE) 01. B-37-427					
0060	210.0100	BACKFILL STRUCTURE	CY	124.000	124.000		
0070	213.0100	FINISHING ROADWAY (PROJECT) 01.	EACH	1.000	1.000		
		9515-05-70					
0800	305.0110	BASE AGGREGATE DENSE 3/4-INCH	TON	160.000	160.000		
0090	305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	720.000	720.000		
0100	311.0110	BREAKER RUN	TON	35.000	35.000		
0110	455.0605	TACK COAT	GAL	12.000	12.000		
0120	465.0105	ASPHALTIC SURFACE	TON	44.000	44.000		
0130	502.0100	CONCRETE MASONRY BRIDGES	CY	112.000	112.000		
0140	502.3200	PROTECTIVE SURFACE TREATMENT	SY	135.000	135.000		
0150	505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	3,060.000	3,060.000		
0160	505.0605	BAR STEEL REINFORCEMENT HS COATED	LB	14,760.000	14,760.000		
		BRIDGES					
0170	513.4060	RAILING TUBULAR TYPE M (STRUCTURE) 01.	LS	1.000	1.000		
0100	E16 0500	B-37-427	CV	16 000	16 000		
0180 0190	516.0500 550.1100	RUBBERIZED MEMBRANE WATERPROOFING PILING STEEL HP 10-INCH X 42 LB	SY LF	16.000 140.000	16.000 140.000		
0200	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	130.000	130.000		
0210	619.1000	MOBILIZATION	EACH	1.000	1.000		
0220	624.0100	WATER	MGAL	2.600	2.600		
0230	625.0500	SALVAGED TOPSOIL *P*	SY	1,750.000	1,750.000		
0240 0250	627.0200 628.1504	MULCHING *P* SILT FENCE	SY LF	1,750.000 200.000	1,750.000 200.000		
0260	628.1520	SILT FENCE MAINTENANCE	LF	200.000	200.000		
0270	628.1905	MOBILIZATIONS EROSION CONTROL	EACH	2.000	2.000		
0280	628.1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	2.000	2.000		
0290	628.2006 628.6005	EROSION MAT URBAN CLASS I TYPE A	SY	375.000 130.000	375.000 130.000		
0300	020.0003	TURBIDITY BARRIERS	SY	130.000	130.000		
0310	628.7570	ROCK BAGS	EACH	18.000	18.000		
0320	629.0210	FERTILIZER TYPE B *P*	CWT	3.000	3.000		
0330	630.0120	SEEDING MIXTURE NO. 20 *P*	LB	70.000	70.000		
0340	630.0200	SEEDING TEMPORARY *P*	LB	70.000	70.000		
0350	634.0612	POSTS WOOD 4X6-INCH X 12-FT	EACH	4.000	4.000		
0360	637.0202	SIGNS REFLECTIVE TYPE II	 SF	12.000	12.000		
0370	638.2602	REMOVING SIGNS TYPE II	EACH	4.000	4.000		
0380	638.3000	REMOVING SMALL SIGN SUPPORTS	EACH	4.000	4.000		
0390	642.5001	FIELD OFFICE TYPE B	EACH	1.000	1.000		
0400	643.0100	TRAFFIC CONTROL (PROJECT) 01. 9515-05-70	EACH	1.000	1.000		
0410	643.0920	TRAFFIC CONTROL COVERING SIGNS TYPE II	EACH	5.000	5.000		
0420	645.0120	GEOTEXTILE FABRIC TYPE HR	SY	195.000	195.000		
0430	650.4500	CONSTRUCTION STAKING SUBGRADE	LF	384.000	384.000		
0440	650.5000	CONSTRUCTION STAKING BASE	LF	384.000	384.000		
0450	650.6500	CONSTRUCTION STAKING STRUCTURE LAYOUT	LS	1.000	1.000		
		(STRUCTURE) 01. B-37-427					
0460	650.9910	CONSTRUCTION STAKING SUPPLEMENTAL	LS	1.000	1.000		
		CONTROL (PROJECT) 01. 9515-05-70					
0470	650.9920	CONSTRUCTION STAKING SLOPE STAKES	LF	384.000	384.000		

DATE 09	JAN13	E S	TIMATE	OF QUAN	TITIES 9515-05-70
NUMBER 0480	ITEM 715.0502	ITEM DESCRIPTION INCENTIVE STRENGTH CONCRETE STRUCTURES	UNIT DOL	TOTAL 670.000	QUANTITY 670.000
0490	SPV.0035	SPECIAL 01. RIPRAP HEAVY SPECIAL	CY	95.000	95.000

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CLEA	RING AND GRUBBING						·				BASE AGGREGATE					
CATEGORY STATION - STAT	201.0109 CLEARIN ON LOCATION STA	5 201.0205 G GRUBBING		FINISHI	ING ROADWAY	.0100						305.0110 BASE AGGREGATE	305.0 BAS AGGREC	E SATE	624.0100	
CATEGORY STATION - STAT 0010 9+00 - 10+00 9+00 - 10+00	RT 1	STA			ROJECT I.D. E	1	CATEG		STATION - STATION	LOCA	TION	DENSE 3/4-INCH TON	DENSE 1 1.	1	WATER MGAL*	
10+00 - 10+00 10+00 - 12+00 11+00 - 12+00	LT 1 RT 2 LT 1	2 1		0010	1313 03 10	1	001	1	7+80.0 - 9+81.5 10+18.5 - 12+00.0	LT & LT &		85 75	380 340		0.9 0.8	
	TOTALS 5	5						* ADDITIC	ONAL QUANTITIES LIST	TOTA	4L2	160	720)	1.7	
						EART	HWORK SUMMARY									
					(2) SALVAGED/	(3)	(4)	(5) 311 . 0110	(6) 205 . 0100	(7)		(8)	(9)	(10) 208 . 0100	(10)	624.0100
			EXCAVATION		UNUSABLE VEMENT MATERIAL	AVAILABLE	EBS	BREAKER	TOTAL EXCAVATION	EBS EXCAVATION	UNEXPANDED	EXPANDED	MASS	DODDOW	WACTE	w *
			COMMON	V	REMOVAL	MATERIAL	EXCAVATION 5% OF AVAILABLE MATERIAL	RUN	COMMON	REDUCED FACTOR 0.8	FILL	FILL FACTOR 1.25	ORDINATE	-BORROW	+WASTE	WATER*
CATEGORY DIVISION 0010 1	STATION - STATION	LOCATION LT & RT	CY		CY	CY	CY 7	TON	CY	CY	CY	CY	44	СҮ	44	MGAL 0.3
2	7+80.00 - 9+81.49 10+18.49 - 12+00.00	LT & RT	158 267		14 10	144 257	13	12 23	165 280	6 10	86 155	100 181	44 76	-	44 76	0.6
	TOTALS		425		24	401	20	35	445	16	241	281	120	0	120	0.9
	PAY QUANTITIES		-		-	-	-	35	450		-	-	-	-	-	0.9
4) EBS EXCAVATION TO BE BAC 5) BREAKER RUN = EBS EXCAV. 6) TOTAL EXCAVATION COMMON 7) REDUCED EBS IN FILL: EXC 8) (EXPANDED FILL FACTOR = 9) THE MASS ORDINATE + OR PLUS OTY INDICATES AN EXMINUS OTY INDICATES A SH	CAVATION COMMON - SALVAGED MA KFILLED WITH BREAKER RUN. (TION*1.75 TONS/CY. = EXCAVATION COMMON + EBS EX AVATED EBS MATERIAL IS USEABLE (UNEXPANDED FILL - EBS EXCAVA - QTY CALCULATED FOR THE CAT (CESS OF MATERIAL WITHIN THE CA ORTAGE OF MATERIAL WITHIN THE	ATERIALS. (CAVATION. E IN FILLS OUTSIDE THE 1: TION REDUCED) *1.25 EGORY. ATEGORY, CATEGORY	:1 SLOPE. EBS IN I	FILL REDUCTION	FACTOR = 0.8.											
3) AVAILABLE MATERIAL = EX 4) EBS EXCAVATION TO BE BAC 5) BREAKER RUN = EBS EXCAV. 6) TOTAL EXCAVATION COMMON 7) REDUCED EBS IN FILL: EXC 8) (EXPANDED FILL FACTOR = 9) THE MASS ORDINATE + OR PLUS OTY INDICATES AN EXIMINUS OTY INDICATES A SH	CAVATION COMMON - SALVAGED M. KFILLED WITH BREAKER RUN. (TION*1.75 TONS/CY. = EXCAVATION COMMON + EBS EX AVATED EBS MATERIAL IS USEABLE (UNEXPANDED FILL - EBS EXCAVA - OTY CALCULATED FOR THE CAT (CESS OF MATERIAL WITHIN THE ORTAGE OF MATERIAL WITHIN THE DRDINATE, BORROW = NEGATIVE MA	ATERIALS. (CAVATION. E IN FILLS OUTSIDE THE 1: TION REDUCED) *1.25 EGORY. ATEGORY, CATEGORY	:1 SLOPE. EBS IN I	FILL REDUCTION	FACTOR = 0.8.											
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3) AVAILABLE MATERIAL = EX 4) EBS EXCAVATION TO BE BAG 5) BREAKER RUN = EBS EXCAV. 6) TOTAL EXCAVATION COMMON 7) REDUCED EBS IN FILL: EXC 8) (EXPANDED FILL FACTOR = 9) THE MASS ORDINATE + OR PLUS OTY INDICATES AN EXIMINUS OTY INDICATES A SH 10) WASTE = POSITIVE MASS (* ADDITIONAL QUANTITIES LIS	CAVATION COMMON - SALVAGED M. KFILLED WITH BREAKER RUN. ITION*1.75 TONS/CY. = EXCAVATION COMMON + EBS EX AVATED EBS MATERIAL IS USEABLE (UNEXPANDED FILL - EBS EXCAVA - OTY CALCULATED FOR THE CAT (CESS OF MATERIAL WITHIN THE CAT (CESS OF MATERIAL WITHIN THE DRINATE, BORROW = NEGATIVE MA TED ELSEWHERE ASPHALTIC ITEMS STATION LOCATION	ATERIALS. (CAVATION. E IN FILLS OUTSIDE THE 1: TION REDUCED) *1.25 EGORY. ATEGORY, CATEGORY	465,0105 ASPHALTIC SURFACE TON	FILL REDUCTION			619.1000 EACH 0.25 0.75				EGORY STATI	SILT FE ON - STATION		628.1520 SLIT FENC MAINTENAN LF	E CE	
3) AVAILABLE MATERIAL = EX 4) EBS EXCAVATION TO BE BAG 5) BREAKER RUN = EBS EXCAV. 6) TOTAL EXCAVATION COMMON 7) REDUCED EBS IN FILL: EXC 8) (EXPANDED FILL FACTOR = 9) THE MASS ORDINATE + OR PLUS OTY INDICATES AN E. MINUS OTY INDICATES A SH 10) WASTE = POSITIVE MASS (* ADDITIONAL OUANTITIES LIS	CAVATION COMMON - SALVAGED M. KFILLED WITH BREAKER RUN. ITION*1.75 TONS/CY. = EXCAVATION COMMON + EBS EX AVATED EBS MATERIAL IS USEABLE (UNEXPANDED FILL - EBS EXCAVA - OTY CALCULATED FOR THE CAT (CESS OF MATERIAL WITHIN THE CAT (CESS OF MATERIAL WITHIN THE DRINATE, BORROW = NEGATIVE MA TED ELSEWHERE ASPHALTIC ITEMS STATION LOCATION	ATERIALS. (CAVATION. E IN FILLS OUTSIDE THE 1: TION REDUCED)*1.25 EGORY. ATEGORY, CATEGORY SS ORDINATE 455.0605 TACK COAT	465.0105 ASPHALTIC SURFACE	FILL REDUCTION	CATEGORY	PROJECT I.D.	EACH						628.1504 SILT FENCE	MAINTENAN	E CE	
3) AVAILABLE MATERIAL = EX 4) EBS EXCAVATION TO BE BAG 5) BREAKER RUN = EBS EXCAV. 6) TOTAL EXCAVATION COMMON 7) REDUCED EBS IN FILL: EXC 8) (EXPANDED FILL FACTOR = 9) THE MASS ORDINATE + OR PLUS OTY INDICATES AN EX MINUS OTY INDICATES A SH 10) WASTE = POSITIVE MASS (* ADDITIONAL QUANTITIES LIS	CAVATION COMMON - SALVAGED M. KFILLED WITH BREAKER RUN. ITION*1.75 TONS/CY. = EXCAVATION COMMON + EBS EX AVATED EBS MATERIAL IS USEABLE (UNEXPANDED FILL - EBS EXCAVA - OTY CALCULATED FOR THE CAT (CESS OF MATERIAL WITHIN THE CAT (CESS OF MATERIAL WITHIN THE ORTAGE OF MATERIAL WITHIN THE ORTAGE OF MATERIAL WITHIN THE ASPHALTIC ITEMS ASPHALTIC ITEMS STATION LOCATION 9+81.5 LT & RT LT & RT	ATERIALS. (CAVATION. E IN FILLS OUTSIDE THE 1: TION REDUCED)*1.25 EGORY. ATEGORY, CATEGORY SS ORDINATE 455.0605 TACK COAT GAL 6 6 6	465.0105 ASPHALTIC SURFACE TON 22 22	FILL REDUCTION	CATEGORY	PROJECT I.D. 9515-05-70 9515-05-70	EACH 0.25 0.75					ON - STATION	628.1504 SILT FENCE LF	MAINTENAN LF	E CE	
3) AVAILABLE MATERIAL = EX 4) EBS EXCAVATION TO BE BAG 5) BREAKER RUN = EBS EXCAV. 6) TOTAL EXCAVATION COMMON 7) REDUCED EBS IN FILL: EXC 8) (EXPANDED FILL FACTOR = 9) THE MASS ORDINATE + OR PLUS OTY INDICATES AN E: MINUS OTY INDICATES A SH 10) WASTE = POSITIVE MASS (* ADDITIONAL QUANTITIES LIS . CATEGORY STATION - 0010 9+31.5 - 10+18.5 -	CAVATION COMMON - SALVAGED M. KFILLED WITH BREAKER RUN. ITION*1.75 TONS/CY. = EXCAVATION COMMON + EBS EX AVATED EBS MATERIAL IS USEABLE (UNEXPANDED FILL - EBS EXCAVA - OTY CALCULATED FOR THE CAT (CESS OF MATERIAL WITHIN THE CAT (CESS OF MATERIAL WITHIN THE IRDINATE, BORROW = NEGATIVE MA TED ELSEWHERE ASPHALTIC ITEMS STATION LOCATION 9+81.5 LT & RT 10+68.5 LT & RT TOTALS	ATERIALS. (CAVATION. E IN FILLS OUTSIDE THE 1: TION REDUCED)*1.25 EGORY. ATEGORY, CATEGORY SS ORDINATE 455.0605 TACK COAT GAL 6 6 12	465.0105 ASPHALTIC SURFACE TON 22 22 44 INISHING ITEMS 625.0500 SALVAGED TOPSOIL	627.0200 MULCHING	CATEGORY O010 0020 629.0210 FERTILIZER TYPE B	9515-05-70 9515-05-70 TOTAL	630.0200 SEEDING TEMPORARY			MOBILIZATIC EROSION CON	DIO UND DINS TROL	ON - STATION	628.I504 SILT FENCE LF 200	MAINTENAN LF	CE	
3) AVAILABLE MATERIAL = EX 4) EBS EXCAVATION TO BE BAG 5) BREAKER RUN = EBS EXCAV. 6) TOTAL EXCAVATION COMMON 7) REDUCED EBS IN FILL: EXC 8) (EXPANDED FILL FACTOR = 9) THE MASS ORDINATE + OR PLUS OTY INDICATES AN E: MINUS OTY INDICATES A SH 10) WASTE = POSITIVE MASS (* ADDITIONAL QUANTITIES LIS	CAVATION COMMON - SALVAGED M. KFILLED WITH BREAKER RUN. LION*1.75 TONS/CY. = EXCAVATION COMMON + EBS EXAVATED EBS MATERIAL IS USEABLE (UNEXPANDED FILL - EBS EXCAVA - OTY CALCULATED FOR THE CAT (CESS OF MATERIAL WITHIN THE CAT (CESS OF MATERIAL WITHIN THE PRODINATE, BORROW = NEGATIVE MATERIAL WITHIN THE ORDINATE, BOR	ATERIALS. (CAVATION. E IN FILLS OUTSIDE THE 1: TION REDUCED)*1.25 EGORY. ATEGORY, CATEGORY SS ORDINATE 455.0605 TACK COAT GAL 6 6 12 LOCATION LT & RT	465.0105 ASPHALTIC SURFACE TON 22 22 44 INISHING ITEMS 625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	CATEGORY 0010 0020 -	PROJECT I.D. 9515-05-70 9515-05-70 TOTAL 630.0120 SEEDING MIXTURE NO. 20 LB	EACH 0.25 0.75 1.00 630.0200 SEEDING TEMPORARY LB			MOBILIZATIC EROSION CON TEGORY	010 UND 0NS TROL 628,1905 EACH	ON - STATION	628.I504 SILT FENCE LF 200	MAINTENAN LF 200	CE	-
3) AVAILABLE MATERIAL = EX 4) EBS EXCAVATION TO BE BAG 5) BREAKER RUN = EBS EXCAV. 6) TOTAL EXCAVATION COMMON 7) REDUCED EBS IN FILL: EXC 8) (EXPANDED FILL FACTOR = 9) THE MASS ORDINATE + OR PLUS OTY INDICATES AN EXIMINUS OTY INDICATES A SH 10) WASTE = POSITIVE MASS OF ADDITIONAL OUANTITIES LISE CATEGORY STATION - 0010 9+31.5 - 10+18.5 -	CAVATION COMMON - SALVAGED M. KFILLED WITH BREAKER RUN. ITION*1.75 TONS/CY. = EXCAVATION COMMON + EBS EX AVATED EBS MATERIAL IS USEABLE (UNEXPANDED FILL - EBS EXCAVA - OTY CALCULATED FOR THE CAT (CESS OF MATERIAL WITHIN THE CAT (CESS OF MATERIAL WITHIN THE IRDINATE, BORROW = NEGATIVE MA TED ELSEWHERE ASPHALTIC ITEMS STATION LOCATION 9+81.5 LT & RT 10+68.5 LT & RT TOTALS	ATERIALS. (CAVATION. E IN FILLS OUTSIDE THE 1: TION REDUCED)*1.25 EGORY. ATEGORY, CATEGORY SS ORDINATE 455.0605 TACK COAT GAL 6 6 12	465.0105 ASPHALTIC SURFACE TON 22 22 44 INISHING ITEMS 625.0500 SALVAGED TOPSOIL	627.0200 MULCHING	CATEGORY O010 0020 629.0210 FERTILIZER TYPE B	9515-05-70 9515-05-70 TOTAL	630.0200 SEEDING TEMPORARY			MOBILIZATIC EROSION CON	010 UND 0NS TROL 628.1905	ON - STATION	628.I504 SILT FENCE LF 200	MAINTENAN LF 200 MOBILIZATIONS E EROSION COI	MERGENCY VITROL 628.1910	-





Standard Detail Drawing List

08E	09-06	SILT FENCE
08E	11-02	TURBIDITY BARRIER
124	A03-10	NAME PLATE (STRUCTURES)
150	:02-04A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
150	:02-04B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
150	06-05	SIGNING & MARKING FOR TWO LANE BRIDGES

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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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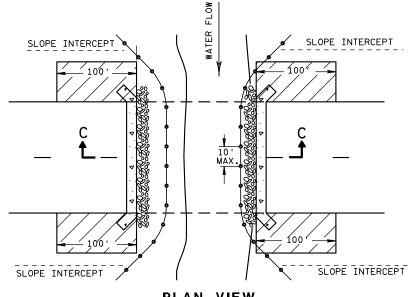
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GENERAL NOTES

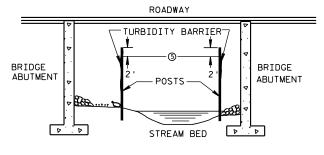
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

- ① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.
- 2 SANDBAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.
- (3) WHEN BARRIER HEIGHT, H. EXCEEDS 8 FT., POST SPACING MAY NEED TO BE DECREASED.
- 4 IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.
- (5) ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MIMIMUM BARRIER HEIGHT SHALL BE 2'GREATER THAN EITHER THE 02 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WICHEVER IS GREATER.
- (6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BED ROCK PREVENTS THE INSTALLATION OF POSTS.
- (7) ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.
- (8) USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.



PLAN VIEW



SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

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TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- (2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SPREAD OPEN SO THE TOP OF LUG IS 11/4" WIDE

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

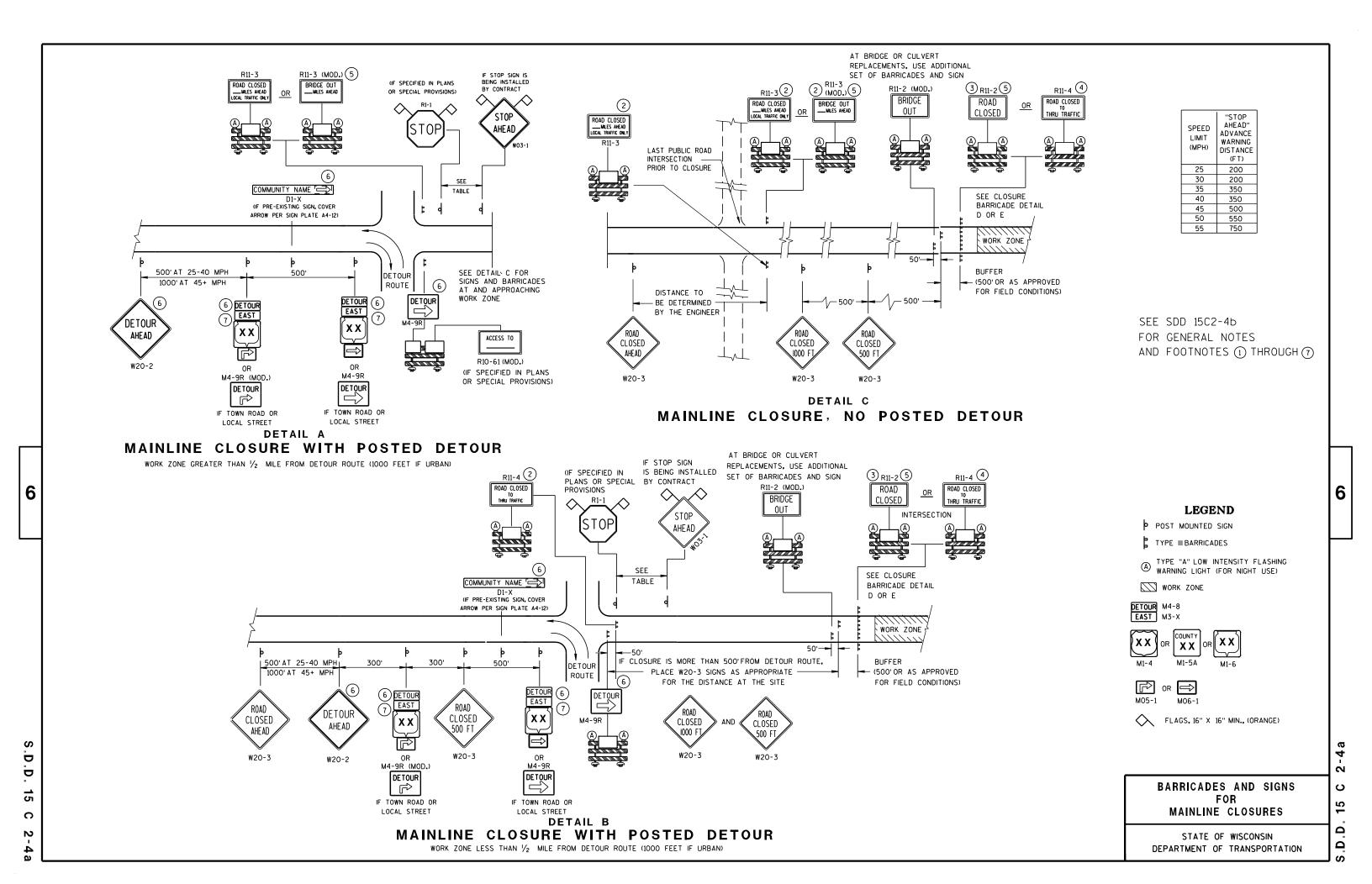
(FOR ATTACHMENT TO PRECAST STRUCTURES)

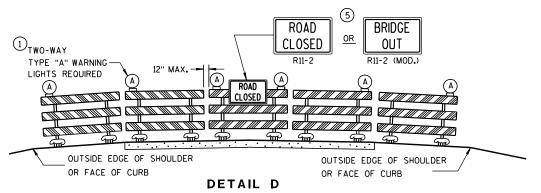
NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

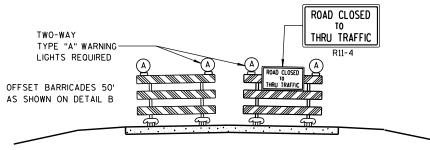
 D. 12 A 3-10





ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2-4a FOR LEGEND

GENERAL NOTES

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

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

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

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

THE REFLECTIVE SHEETING USED ON R11-2, R11-3, R11-4, R10-61 AND R1-1 SIGNS SHALL COMPLY WITH SUBSECTION 637.2.2.2 OF THE STANDARD SPECIFICATIONS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11-2 SHALL BE 48" X 30".

R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".

M4-9 SHALL BE 30" X 24".

M3-X AND M4-8 SHALL BE 24" X 12" (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.) M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.) MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.) D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS. R1-1 SHALL BE 36" X 36".

- (1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX.8-FOOT LIGHT SPACING).
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- (3) FOR ROAD CLOSURE <u>WITHOUT</u> LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.
- FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.
- INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN, USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

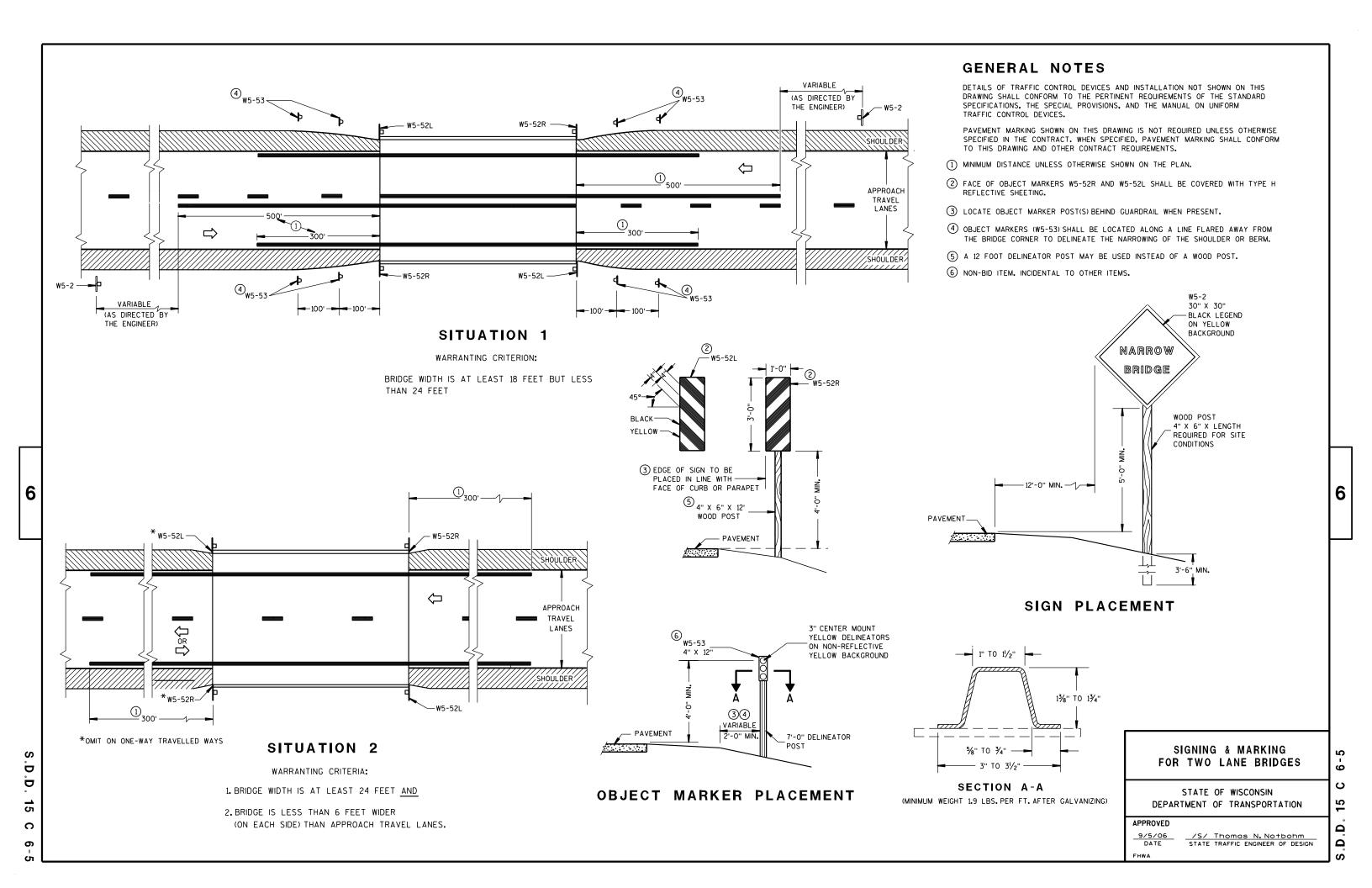
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

/S/ Thomas N. Notbohm
CHIEF SIGNS AND MARKING ENGINEER

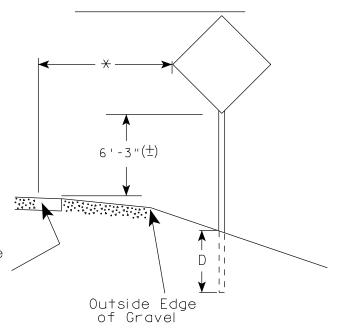
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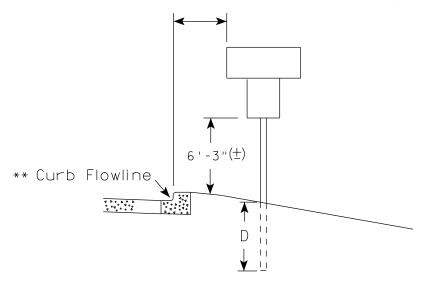
URBAN ARFA

2' Min - 4' Max (See Note 5) 7'-3"(士) ** Curb Flowline. D White Edgeline Location

RURAL ARFA (See Note 2)



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



5'-3"(士) White Edgeline D 11 Location Outside Edae of Gravel

 $\mid_{X|X}$ The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is

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

GENERAL NOTES

- 1. Signs wider than 4 feet or larger than 20 sq. ft. shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on barrier wall, see A4-10 sign plate.
- 3. For expressways and freeways, mounting height is 7'- 3" (+) or 6'-3" (+) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A4-5) is 7'-3'' (±) or 6'-3'' (+) per urban or rural detail respectively.
- 5. Minimum mounting height for signs mounted on traffic signal poles is 5' - 3" (+).
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The (+) tolerance for mounting height is 3 inches.
- 8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3''(+) or as directed by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (+). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of $4'-3''(\pm)$.

POST EMBEDMENT DEPTH

Area of Sign	
Installation	D
(Sq.Ft.)	(Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Raud for State Traffic Engineer

DATE 9/21/2011

PLATE NO. 44-3.16

SHEET NO:

PROJECT NO:

HWY:

COUNTY:

PLOT NAME :

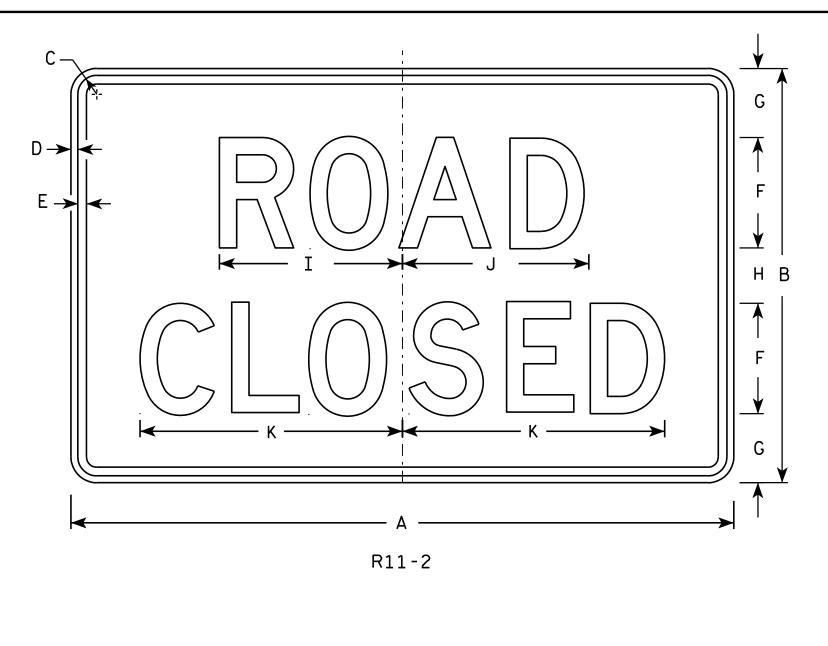
PLOT SCALE: 101.303739:1.000000

WISDOT/CADDS SHEET 42

measured from the flow line.





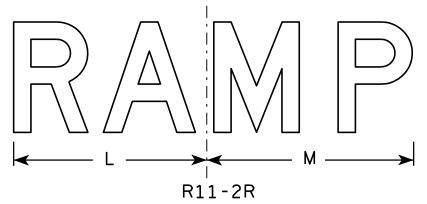


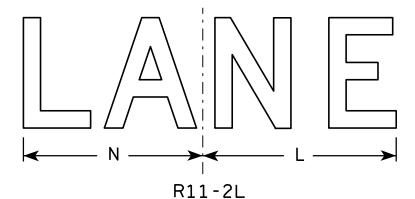
<u>NOTES</u>

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

Background - White Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Modify the message as required.





SIZE	A	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Ρ	0	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
PRO	DJECT	NO:						HWY:					С	OUNTY	':												

STANDARD SIGN R11-2

WISCONSIN DEPT OF TRANSPORTATION

DATE 4/1/11 PLATE NO. R11-2.10

SHEET NO:

PLOT BY: mscj9h

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

Background - White Message - Black

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

C	<u> </u>
	$ \begin{array}{c c} G \\ \hline F \\ \hline H \\ B \\ \hline G \\ \hline \end{array} $
← A	→
R11-2B	

SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	V	W	X	Y	Z	Areg sq. ft.
1																											
25	48	30	1 3/8	1/2	5/8	8	5	4	19 ¾	9 ¾	9 %																10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	19 ¾	9 ¾	9 %																10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	19 ¾	9 ¾	9 %																10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	19 ¾	9 ¾	9 %																10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	19 ¾	9 ¾	9 %																10.0

STANDARD SIGN R11-2B

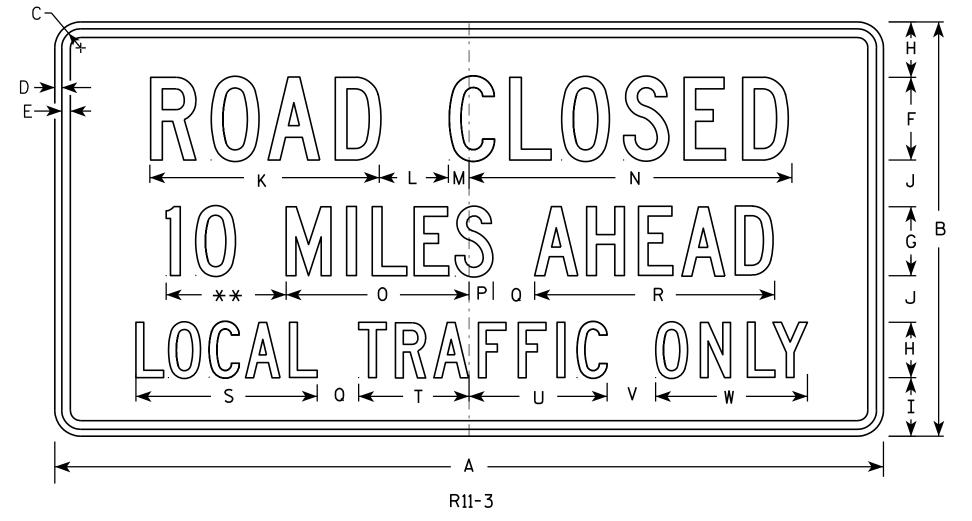
WISCONSIN DEPT OF TRANSPORTATION

Matthew R Rauch

DATE 4/1/11 PLATE NO. R11-2B-2

SHEET NO:

PROJECT NO:



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

Background - White Message - Black

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

** See Note 5

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Ρ	0	R	S	Т	J	٧	W	X	Y	Z	Area sq. ft.
1	36	18	1 3/8	1/2	5/8	4	3	2 1/2	2	2	11 1/8	3	1 1/8	15 1/4	8	1 1/2	2	10 ¾	8 3/8	4 3/4	6 1/2	2	6 3/4				4.5
2S	60	30	1 3/8	1/2	5%	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11				12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 %	16 %	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11				12.5
3																											
4																											
5																											

COUNTY:

STANDARD SIGN R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew & Rauch

DATE 4/1/11 PLATE NO. R11-3.6

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R113.DGN

HWY:

PROJECT NO:

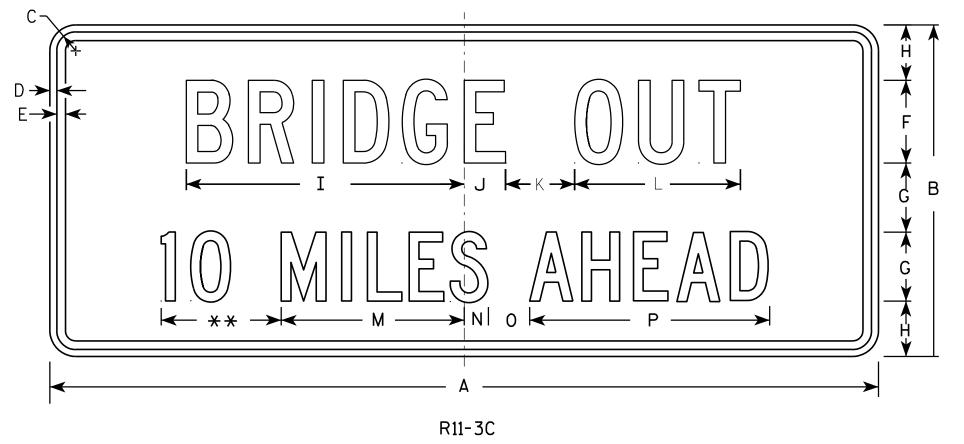
PLOT DATE: 01-APR-2011 14:20

PLOT NAME :

PLOT BY: mscj9h

PLOT SCALE: 6.952216:1.000000

WISDOT/CADDS SHEET 42



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

Background - White Message - Black

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

** See Note 5

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	T	U	V	W	Х	Y	Z	Areo sq. fi.
1	36	15	1 3/8	1/2	5/8	4	3	2 1/2	13 1/4	2 1/4	3	8	8	1 1/2	2	10 ¾											3.75
2S	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8											10.0
2M	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8											10.0
3																											
4																											
5																											
PRO	JECT	NO:																									

STANDARD SIGN R11-3C

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Lauch

for State Traffic Engineer

4/1/11 PLATE NO. R11-3C.2

DATE 4/1/11

SHEET NO:

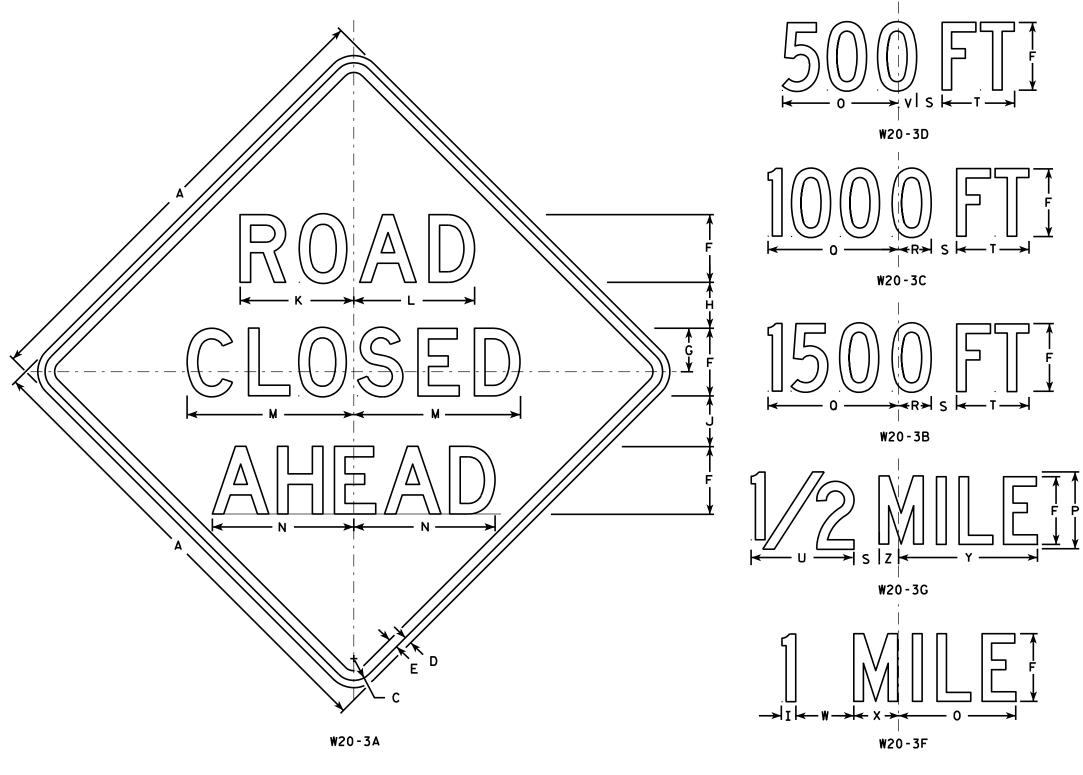
FILE NAME : C:\Users\PROJECTS\tr_stdplate\R113C.DGN

PLOT DATE: 01-APR-2011 14:15

PLOT BY: mscj9h

WISDOT/CADDS SHEET 42





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

Background - Orange Message - Black

- 3. Message Series see note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Lines 1 and 2 are Series D. Line 3 is Series D for AHEAD and Series C for all other distances.

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	Т	U	٧	w	х	Y	Z	Areo sq. ft.
1	36		1 %	5/8	₹4	5	3 3/8	3 ½	1 1/8	4	8 3%	8 %	12 1/2	11	9	6	10 1/8	2 1/2	1 %	5 %	8	1 3/8	4 1/2	3 1/2	10 ¾	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 %	12	8	13 1/2	3 %	2 %	7 1/2	10 %	1 1/8	6	4 %	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 ¾	12 1/2	17 1/4	14 %	12	8	13 1/2	3 %	2 %	7 1/2	10 %	1 1/8	6	4 %	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 ¾	12 1/2	17 1/4	14 %	12	8	13 1/2	3 %	2 %	7 1/2	10 %	1 1/8	6	4 %	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 %	12	8	13 1/2	3 %	2 %	7 1/2	10 %	1 1/8	6	4 %	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 %	12	8	13 1/2	3 %	2 5/8	7 1/2	10 %	1 1/8	6	4 %	14 3/8	2 3/8	16.0
	-		- , -	, -	_		, , .				,			- ,0			, -	- 70	_ , ,	, -	70	- 70		, ,	- ,0	- 70	

STANDARD SIGN W20-3A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

DATE 3/18/11

For State Traffic Engineer
PLATE NO. W20-3.7

SHEET NO:

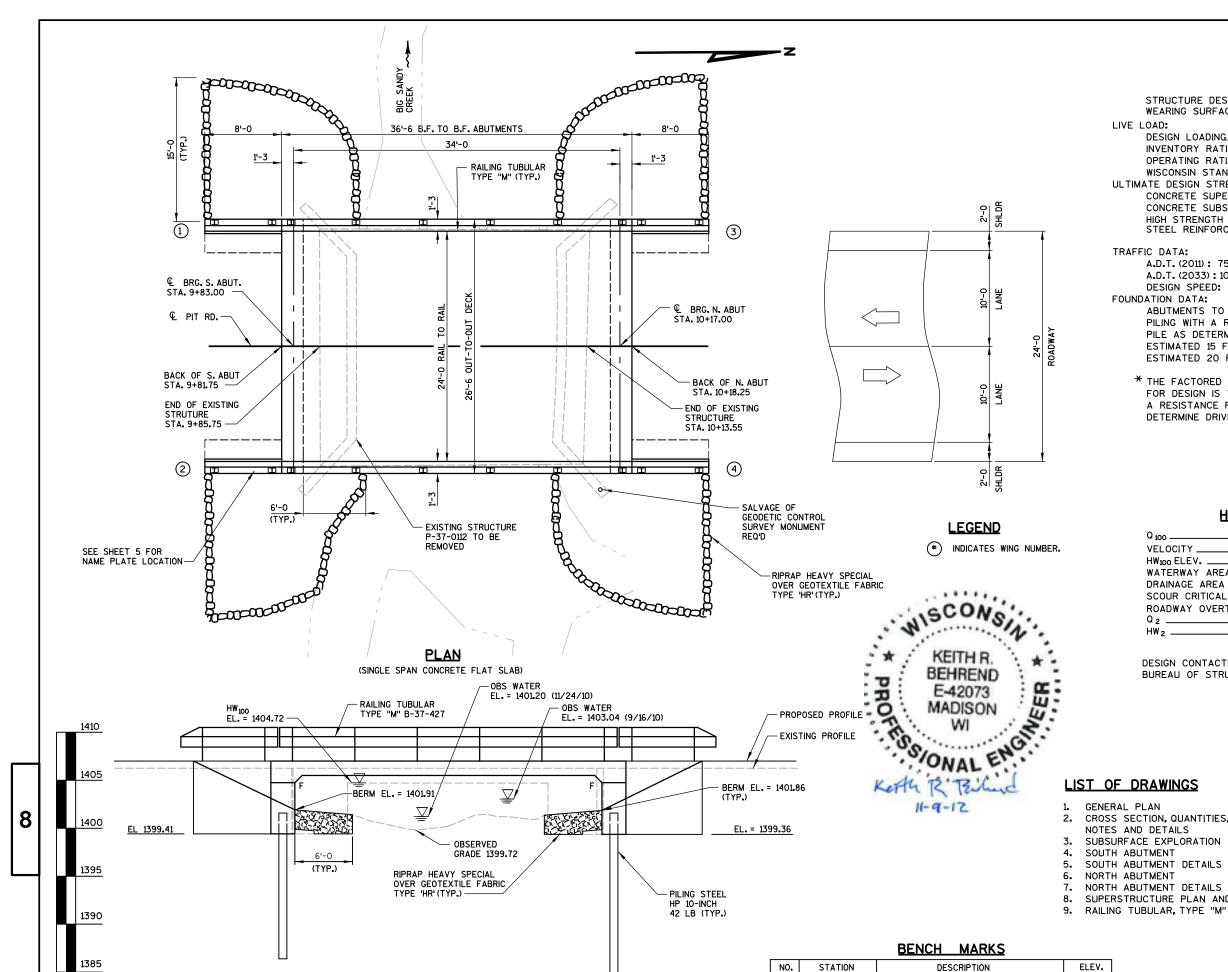
HWY:

COUNTY:

PLOT NAME :

PLOT SCALE: 9.931739:1.000000

PROJECT NO:



ELEVATION

(LOOKING WEST)

MAD/3598/001/Micros/bridge/01-General Plan.dgn

3∕4-INCH ALUMINUM ROD

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

11+29.41. 25'LT

1404.39

	101712 20111111112 20711		<u> </u>			
BID NUMBER	BID ITEM	UNIT	S. ABUT.	SUPER.	N. ABUT.	TOTALS
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MIN. DEBRIS STA. 10+00	L.S.				1
206.1000	EXCAVATION FOR STRUCTURES BRIDGE B-37-427	L.S.				1
210.0100	BACKFILL STRUCTURE	C.Y.	62		62	124
502.0100	CONCRETE MASONRY BRIDGES	C.Y.	24	64	24	112
502.3200	PROTECTIVE SURFACE TREATMENT	S.Y.	3	129	3	135
505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB.	1,530	-	1,530	3,060
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB.	1,120	12,520	1,120	14,760
513.4060	RAILING TUBULAR TYPE "M" B-37-427	L.S.				1
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	S.Y.	8		8	16
550.1100	PILING STEEL HP 10-INCH X 42 LB	L.F.	60		80	140
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	L.F.	65		65	130
645.0120	GEOTEXTILE FABRIC TYPE HR	S.Y.	96		99	195
SPV.0035.01	RIPRAP HEAVY SPECIAL	C.Y.	45		50	95
	NON-BID ITEMS					
	FILLER	SIZE	1/2" & 3/4"		1/2" &- 3/4"	1/2" & 3/4"

PROFILE GRADE LINE

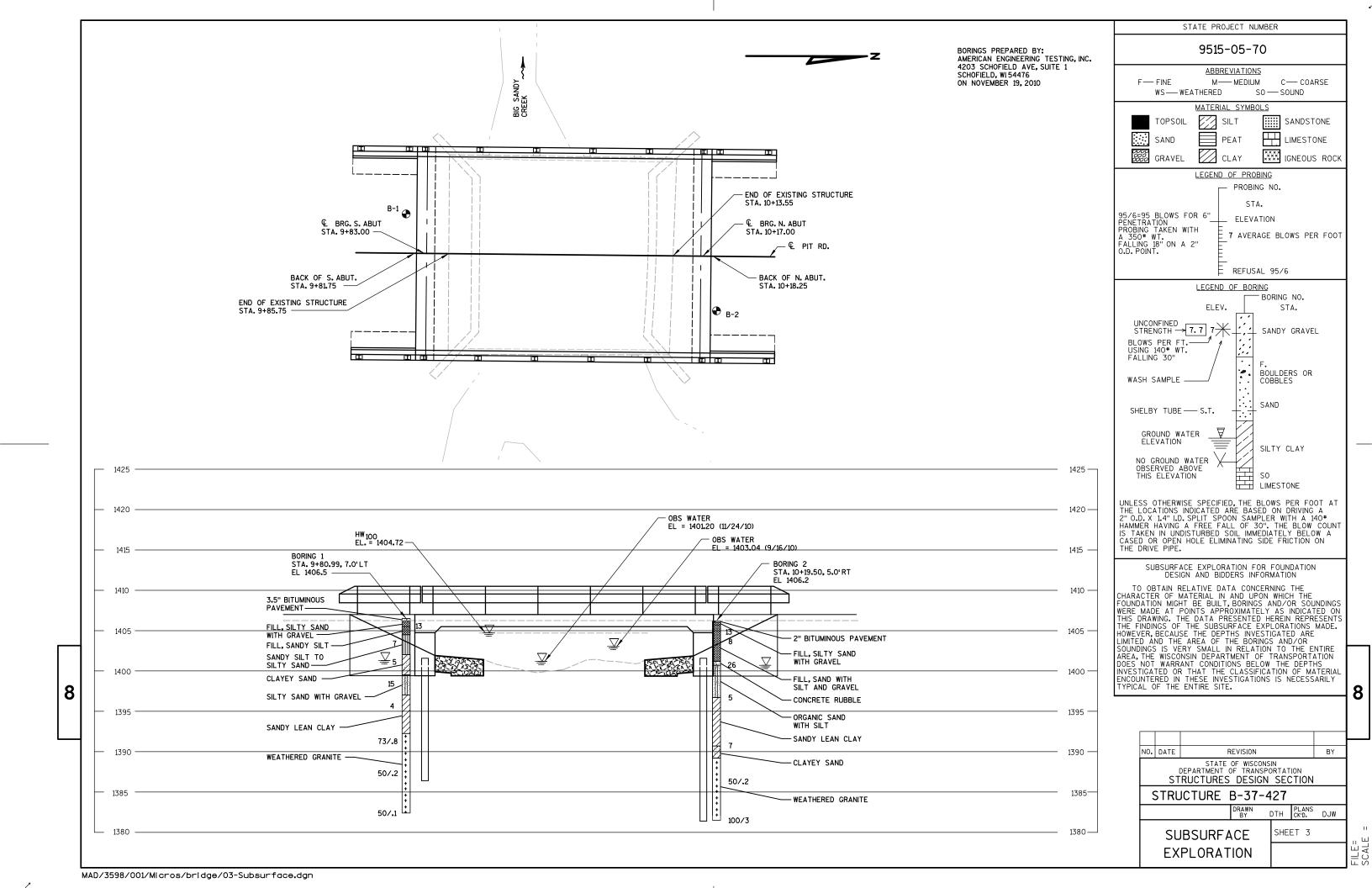
NO. DATE REVISION BY

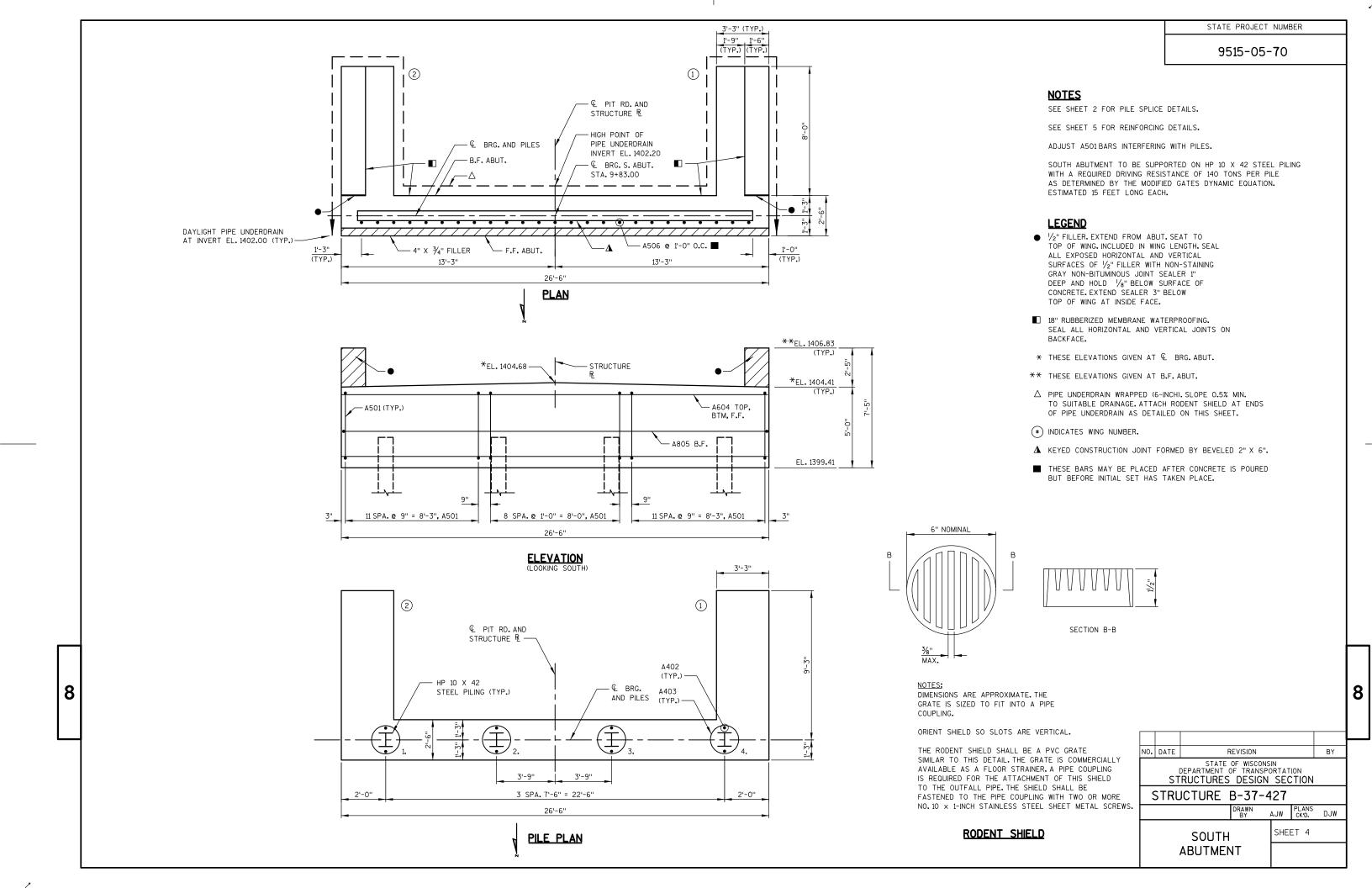
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION

STRUCTURE B-37-427

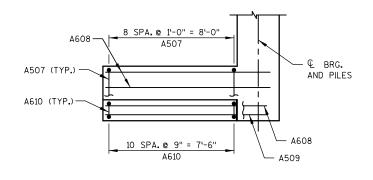
DRAWN DTH PLANS CKD. DJW

CROSS SECTION, QUANTITIES, NOTES
AND DETAILS

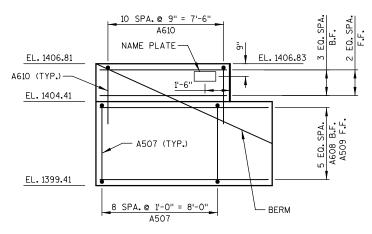




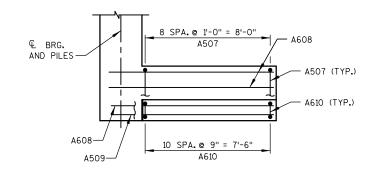
9515-05-70



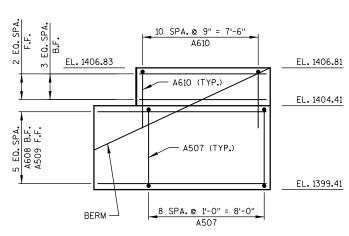
WING 2 PLAN ----



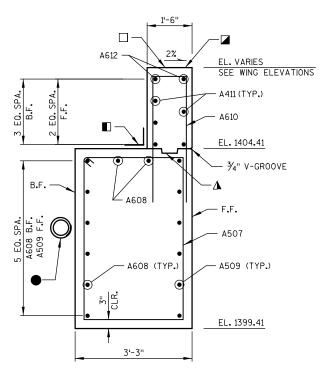
WING 2 ELEVATION



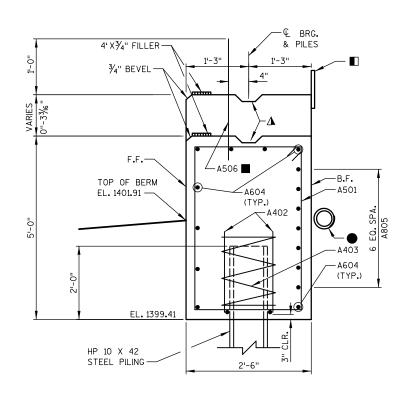
WING 1 PLAN 2



WING 1 ELEVATION (LOOKING EAST)



TYPICAL WING SECTION

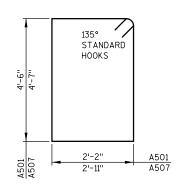


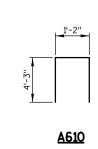
TYPICAL ABUTMENT SECTION

SOUTH ABUTMENT BILL OF BARS

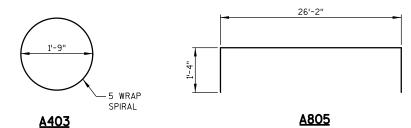
UNCOATED: 1,530 LBS. COATED: 1,120 LBS.

MARK	NO.	LENGTH	BENT	COAT	LOCATION				
A501	33	13'-11"	X		BODY - VERT STIRRUPS				
A402	8	2'-3"			BODY - PILES - VERT.				
A403	4	28'-0"	X		BODY - PILES - SPIRAL				
A604	11	26'-2"			BODY - F.F., TOP, BTM HORIZ.				
A805	7	28'-5"	Х		BODY - B.F HORIZ.				
A506	25	2'-0"		×	BODY - TOP - VERT.				
A507	18	15'-7"	X	×	WINGS - VERT STIRRUPS				
A608	16	10'-2"		Х	WINGS - B.F HORIZ.				
A509	12	10'-2"		×	WINGS - F.F HORIZ.				
A610	22	9'-4"	Х	×	WINGS - UPPER - VERT.				
A 411	10	7'-8"		Х	WINGS - UPPER - B.F., F.F HORIZ.				
A612	4	7'-8"		Х	WINGS - UPPER - TOP - HORIZ.				





<u> A501. A507</u>



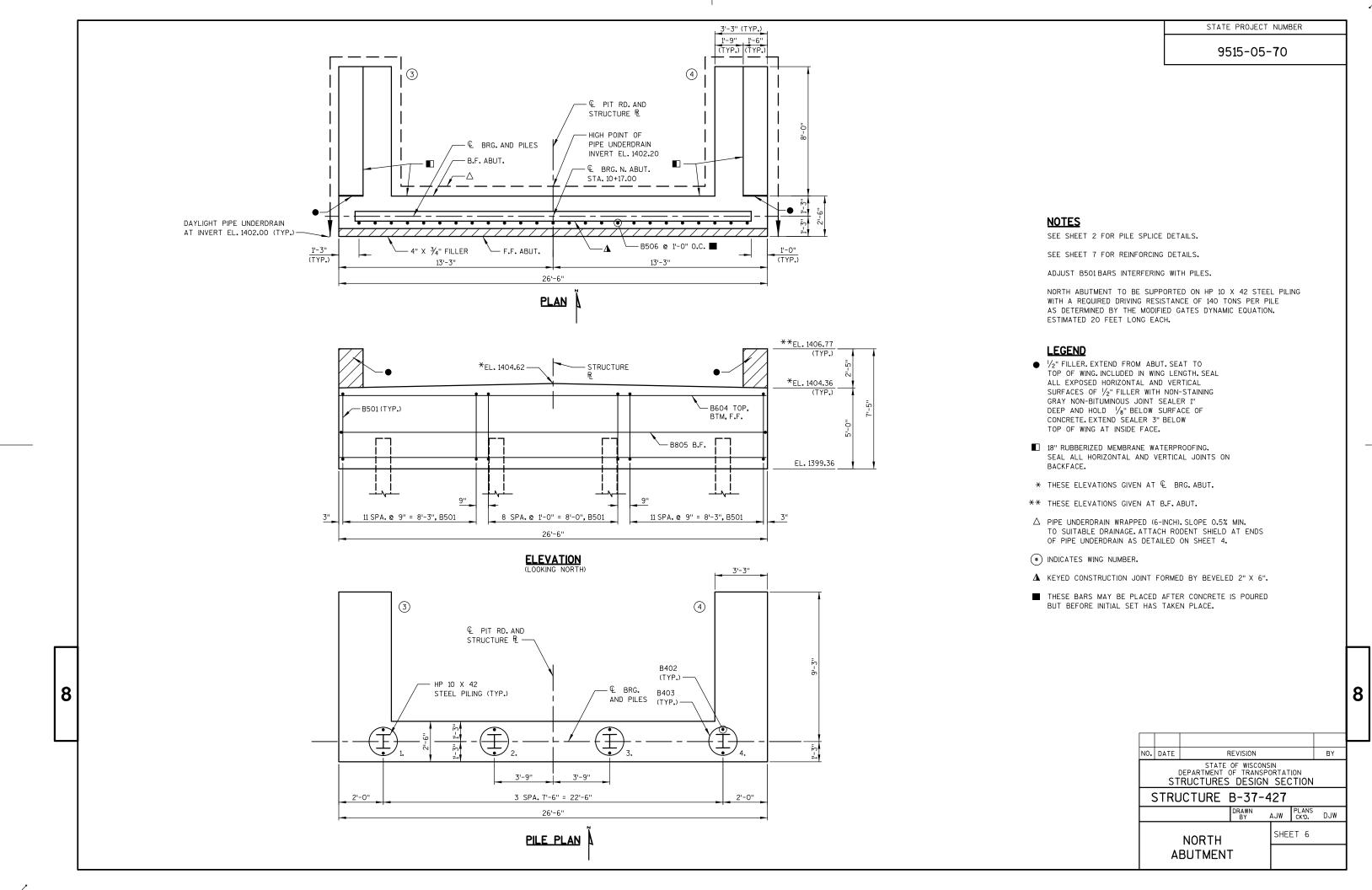
LEGEND

⚠ KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2" X 6".

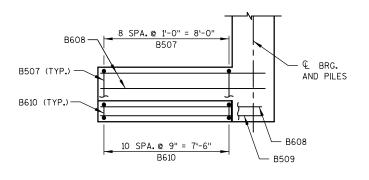
- 18" RUBBERIZED MEMBRANE WATERPROOFING.
- THESE BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE.
- ☐ SLOPE TOP OF WING SAME AS SUPERSTRUCTURE.
- PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 4.
- ☐ COAT WITH "PROTECTIVE SURFACE TREATMENT" AS PER THE STANDARD SPECIFICATIONS.

NO.	DATE	F	BY					
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION							
,	STRUCTURE B-37-427							
DRAWN BY AJW CK'D. DJ								
SOUTH ABUTMENT DETAILS					SHEET 5			

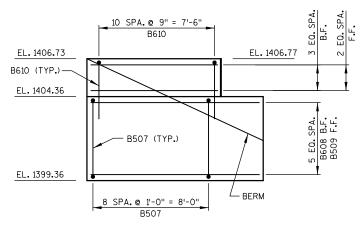
8



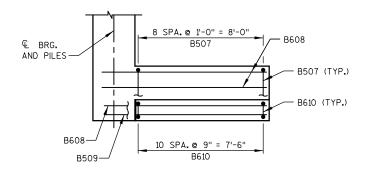
9515-05-70



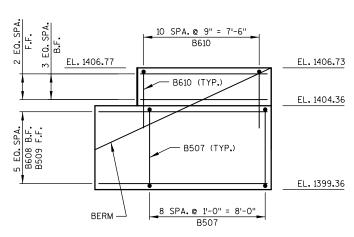
WING 3 PLAN



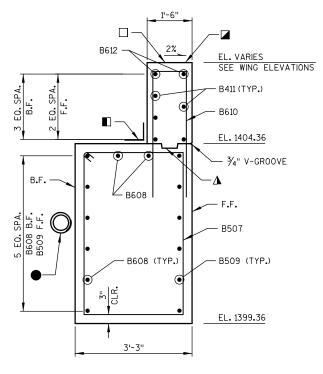
WING 3 ELEVATION



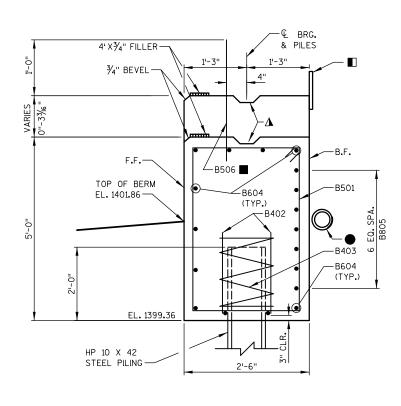
WING 4 PLAN



WING 4 ELEVATION



TYPICAL WING SECTION

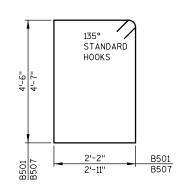


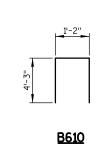
TYPICAL ABUTMENT SECTION

NORTH ABUTMENT **BILL OF BARS**

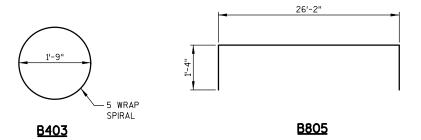
UNCOATED: 1,530 LBS. COATED: 1,120 LBS.

MARK	NO.	LENGTH	BENT	COAT	LOCATION
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B805	7	28'-5"	X		BODY - B.F HORIZ.
B506	25	2'-0"		×	BODY - TOP - VERT.
B507	18	15'-7"	X	Х	WINGS - VERT STIRRUPS
B608	16	10'-2"		X	WINGS - B.F HORIZ.
B509	12	10'-2"		×	WINGS - F.F HORIZ.
B610	22	9'-4"	X	Х	WINGS - UPPER - VERT.
B411	10	7'-8"		Х	WINGS - UPPER - B.F., F.F HORIZ.
B612	4	7'-8"		Х	WINGS - UPPER - TOP - HORIZ.





B501, B507



LEGEND

⚠ KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2" X 6".

- 18" RUBBERIZED MEMBRANE WATERPROOFING.
- THESE BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE.
- ☐ SLOPE TOP OF WING SAME AS SUPERSTRUCTURE.
- PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON SHEET 4.
- ☑ COAT WITH "PROTECTIVE SURFACE TREATMENT" AS PER THE STANDARD SPECIFICATIONS.

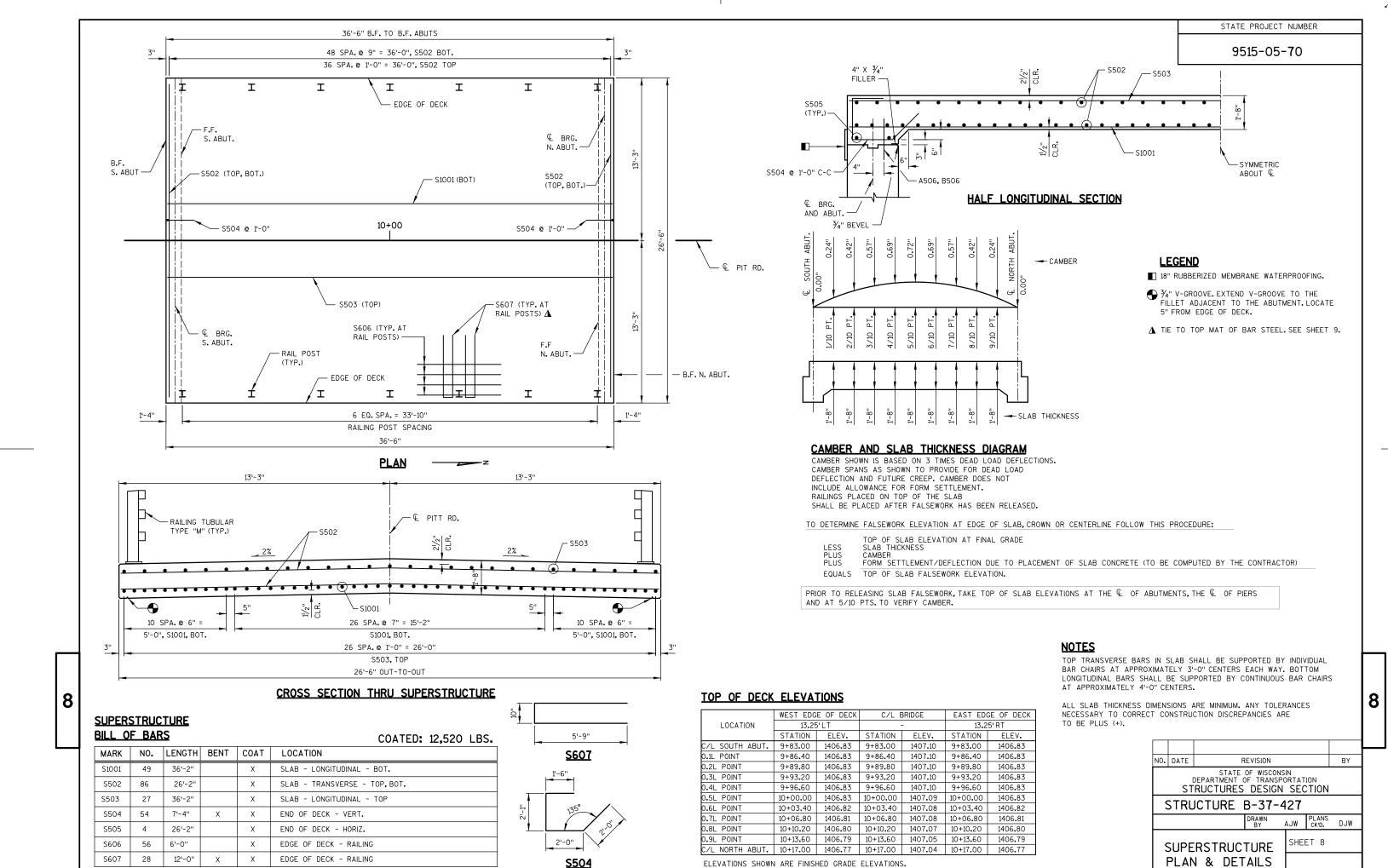
NO.	DATE	REVISION	BY
		STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION RUCTURES DESIGN SECTION	

STRUCTURE B-37-427

AJW PLANS CK'D. DJW SHEET 7

8

NORTH ABUTMENT DETAILS



9515-05-70

LEGEND

- 1) W6 \times 25 WITH 1/8" X 1/2" HORIZ, SLOTS ON EACH SIDE OF POST FOR BOLT NO. 6. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL. PLACE POSTS NORMAL TO GRADE LINE.
- 2 PLATE $1\frac{1}{4}$ " × $11\frac{3}{4}$ " × 1'-8" WITH $1\frac{5}{6}$ " X $1\frac{5}{8}$ " SLOTTED HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO. 1 AS SHOWN. SLOTS PARALLEL TO SHORT SIDE OF PLATE.
- 3 ASTM A449 1/8" DIA. ANCHOR BOLTS WITH NUT AND HARDENED WASHER (ALL GALVANIZED). 5 REQ'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2, CHAMFER TOP OF BOLTS BEFORE THREADING, USE 1'-9" LONG IN ABUTMENT WINGS. AT POSTS ON CONCRETE SLAB SUPERSTRUCTURE USE 1'-3" LONG. (AN EQUIVALENT THREADED ROD WITH NUTS AND HARDENED WASHERS MAY BE SUBSTITUTED FOR ANCHOR BOLTS IN WINGS IF REQ'D. FOR CONSTRUCTIBILITY.)
- 4) $5\!\!/\!\!\!/8\text{"}\times 11\text{"}\times 1\text{'-8"}$ ANCHOR PLATE (GALVANIZED) WITH $13\!\!/\!\!/6\text{"}$ DIA. HOLES FOR ANCHOR BOLTS NO. 3
- (5) TS 5 x 4 x 0.25 STRUCTURAL TUBING, ATTACH TO NO.1 WITH NO.6.
- (5A) TS 5 x 5 x 0.25 STRUCTURAL TUBING. ATTACH TO NO.1 WITH NO.6.
- $6\,$ % DIA. A325 SLOTTED ROUND HEAD BOLT WITH NUT, % " X 1% " X 1% " X 1% " WASHER, AND LOCK WASHER (2 REQ'D. AT EACH RAIL TO POST LOCATION.)
- 9 SPLICE SLEEVE FABRICATED FROM 1/4" PLATE. PROVIDE "SLIDING FIT".
- $\stackrel{\textstyle \bullet}{10}$ $^3\!/\!\!8$ " X $^3\!/\!\!8$ " X $^2\!\!\!^{-4}$ " PLATE. 2 PER RAIL. USED IN NO.5 & 5A.
- (0A) 3/8" X 25/8" X 2'-4" PLATE USED IN NO. 5, 3/8" X 35/8" X 2'-4" PLATE USED IN NO. 5A. 2 PER RAIL.
- (1) %8" ϕ A325 ROUND HEAD BOLT WITH NUT, WASHER, AND LOCK WASHER. USE $^{15}\!\!/_{6}$ " X $1^{1}\!/_{4}"$ LONGIT. SLOTTED HOLES AT FIELD JOINTS AND $^{15}\!\!/_{6}$ " X $2^{1}\!/_{4}"$ MIN. LONGIT. SLOTTED HOLES AT EXP. JOINTS IN PLATE NO. 10A.

GENERAL NOTES

- 1. BID ITEM SHALL BE "RAILING TUBULAR TYPE M B-37-427" WHICH INCLUDES ALL ITEMS SHOWN.
- 2. RAIL POST AND BASE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50. HOLLOW RAILING STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B OR C WITH A CERTIFIED FY = 50 ksi. ANCHOR PLATES, AND SPLICE TUBE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 36.
- 3. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL 1/8 TURN.
- 4. RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES WHERE POSSIBLE. RAILS SHALL BE SPLICED IN A PANEL OVER EXPANSION JOINTS.
- 5. ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE AND SMOOTH.
- 6. WELD IS THE SAME ON BOTH FLANGES. FLANGE WELD DOES NOT REQUIRE MAGNETIC PARTICLE TESTING.
- 7. FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO. 2 AND CAULK AROUND PERIMETER OF PLATE NO. 2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER, STEEL POST SHIMS MAY BE USED UNDER POSTS WHERE REQ'D. FOR ALIGNMENT.
- 8. POST BASE 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 CUT.
- 9. ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS & STEEL TUBING SHALL BE GIVEN A NO.6 BLAST CLEANING BY SSPC SPECIFICATIONS.
- 10. WHEN PAINTING IS REQUIRED, ALL MATERIAL EXCEPT ANCHORAGE DETAIL (NO. 3 & 4) SHALL BE PAINTED OVER GALVANIZING WITH APPROVED TIE COAT AND TOP COAT.
- 11. THIS RAILING MEETS NCHRP REPORT 350 EVALUATION CRITERIA FOR TEST LEVEL 4 (TL-4).
- 12. PLACE FIRST BOTTOM LONGITUDINAL BAR CLEAR OF DRIP GROOVE.

TIE TO TOP MAT OF STEEL.

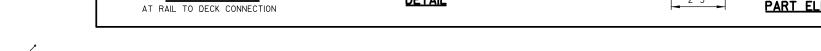
X FOR ANCHOR BOLTS IN WINGS, TACK WELD MAY BE USED IN FIELD AFTER ANCHOR PLATE IS IN POSITION IF REQ'D. FOR CONSTRUCTIBILITY.



SHEET 9

8

TUBULAR STEEL RAILING TYPE "M"

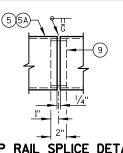


THIS FACE TO BE VERTICAL (1)25/8" 1° 8'44.75' $\left(4\right)$

63%"

- 1/2" AT FIELD JTS. B₩ 2'-4" PROVIDE 1/2" DRAIN HOLES IN LOW

END OF ALL RAILS CLEAR OF SPLICE TUBE FIELD ERECTION JOINT DETAIL



SHOP RAIL SPLICE DETAIL LOCATION MUST BE

ANCHOR BOLTS

HARDENED

WASHER -

X TACK WELD

5"

(OA)-

SECTION B-B

-3" TOP

PROJECTION

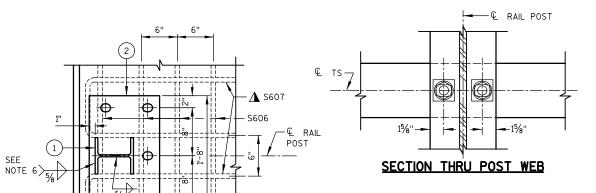
TOP OF

CONCRETE

SHOWN ON SHOP DRAWINGS ∟PLACE BELOW TOP MAT

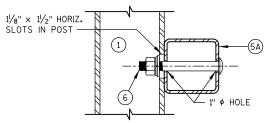
SLAB REINFORCEMENT.

SECTION THRU RAILING ON DECK



4 - S606 PLACE SYM.

2" ABOUT & OF POST

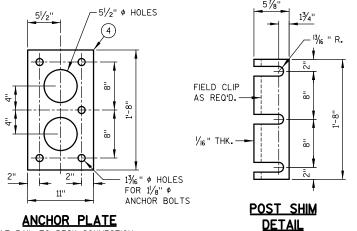


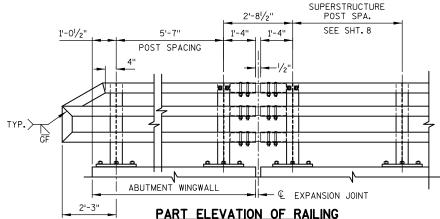
SECTION THRU RAIL

NOTE: CONNECTIONS AT LOWER RAILS SHOWN. CONNECTIONS AT TOP RAIL SIMILAR.

TYPICAL RAIL TO POST CONNECTIONS

113/4" SECTION A-A





25/8"

	T			-	EARTHWORK SUMMAR	RY		Т			
				AREA (SF)			INCREMENTAL VOL (CY) (UNADJUS	CUMULATIVE VOLUME (CY)			
STATION	REAL STATION	DISTANCE	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	UNEXPANDED FILL	CUT 1 . 00	FILL 1,25	MASS ORDINATE
7+80.00	780.00	DISTRICE	25	0	1	001	TATEMENT WATERIAL	1122	1.00	1,23	ONDINATI
8+00.00	800.00	20.00	25	0	1	19	0	1	19	1	18
8+50.00	850.00	50.00	20	0	5	42	0	6	61	9	52
9+00.00	900.00	50.00	20	0	10	37	0	14	98	26	72
9+37.10	937.10	37.10	20	6	25	27	4	24	125	56	65
9+50.00	950.00	12.90	20	6	25	10	3	12	135	71	57
9+81.49	981.49	31.49	20	6	25	23	7	29	158	108	36
B-37-427									158	108	36
10+18.49	1018.49		30	4	40				158	108	36
10+50.00	1050.00	31.51	30	4	40	35	5	47	193	167	7
10+64.20	1064.20	14.20	30	4	40	16	2	21	209	193	-5
11+00.00	1100.00	35.80	45	0	20	50	3	40	259	243	-8
11+50.00	1150.00	50.00	45	0	10	83	0	28	342	278	40
12+00.00	1200.00	50.00	45	0	10	83	0	19	425	302	99

9

PROJECT NO: 9515-05-70

HWY: TOWN ROAD

COUNTY: MARATHON

EARTHWORK

PLOT NAME :

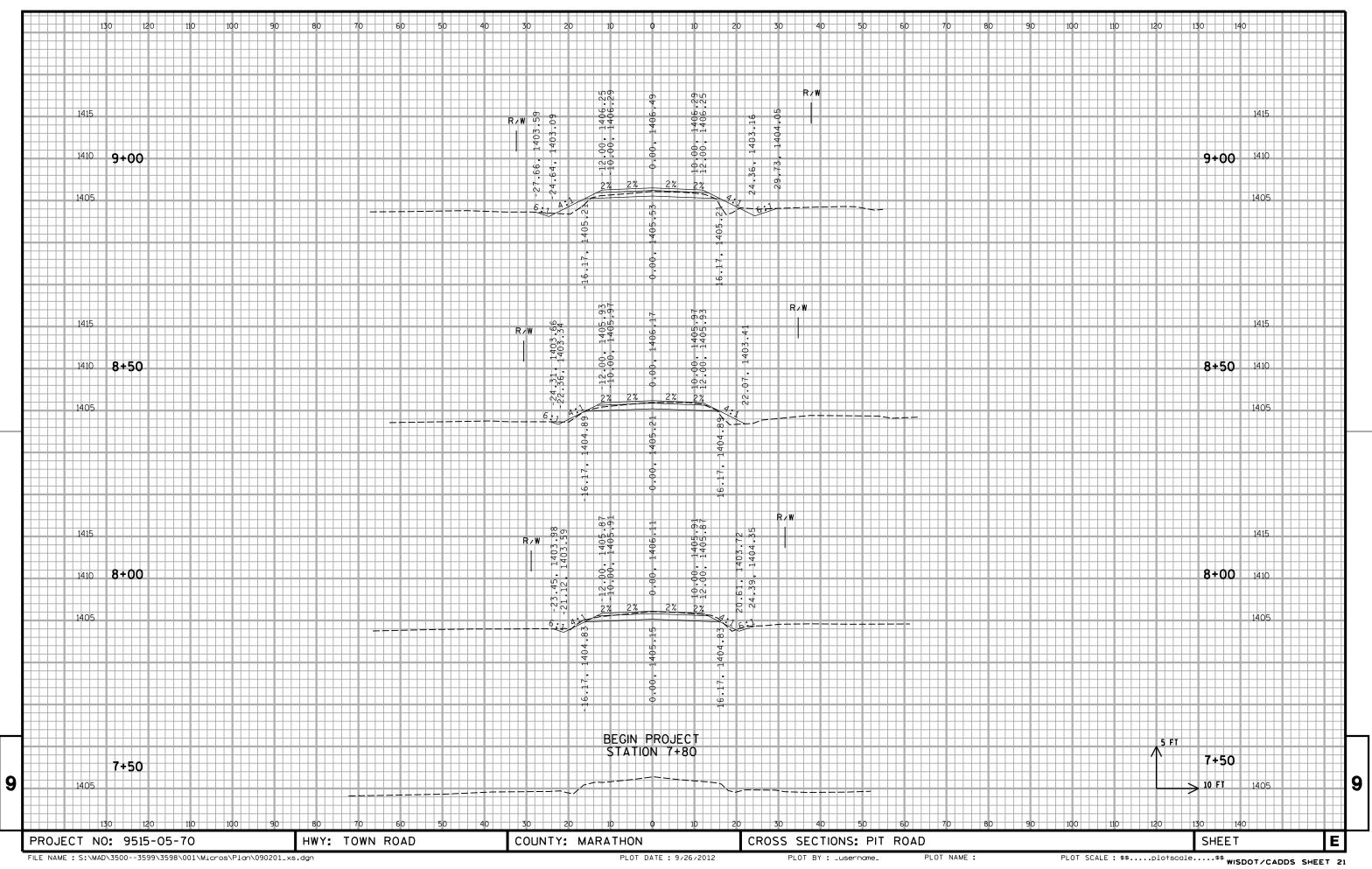
E SHEET

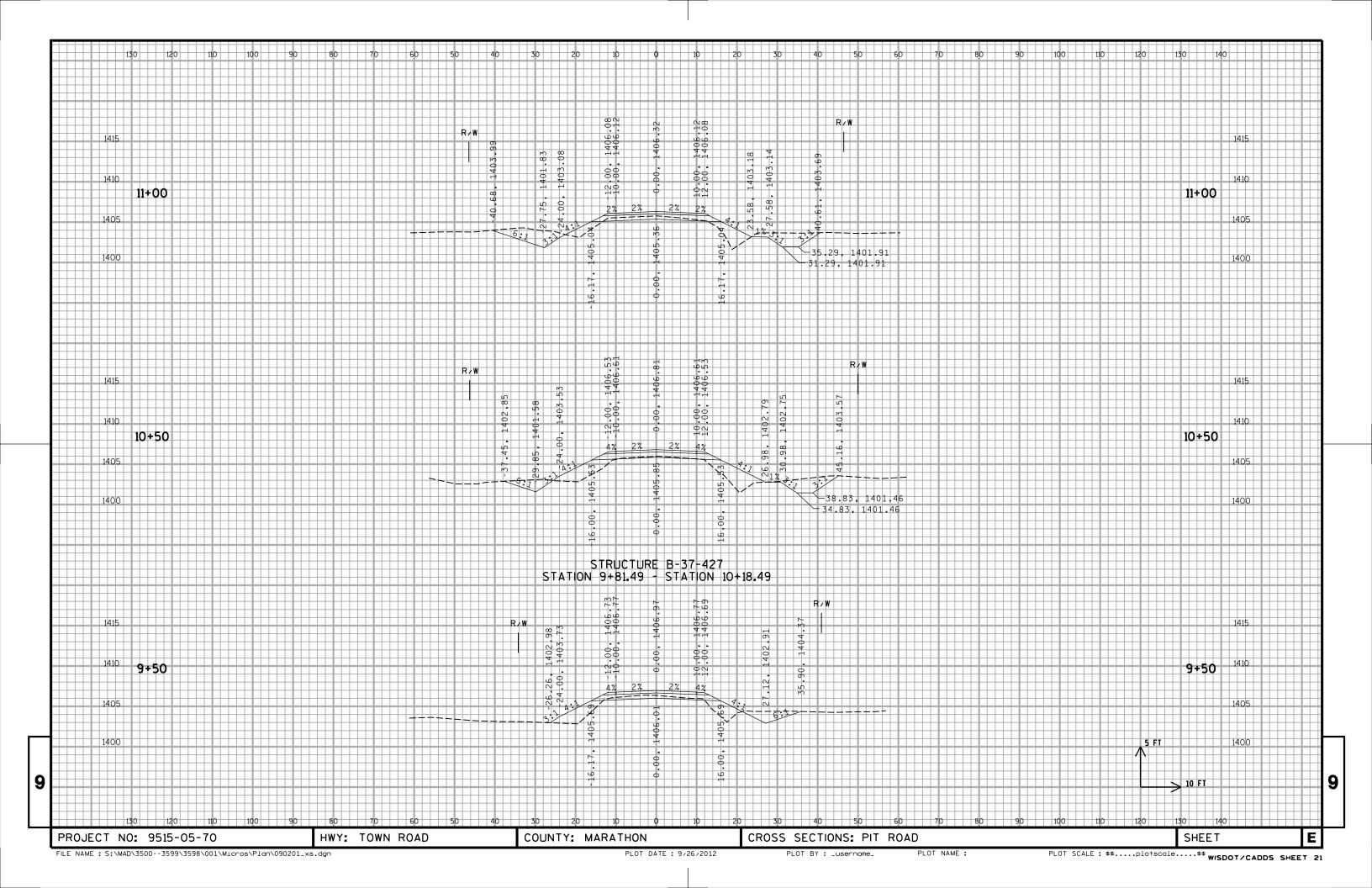
PLOT SCALE: \$\$.....plotscale.....\$\$ wisdot/cadds Sheet 49

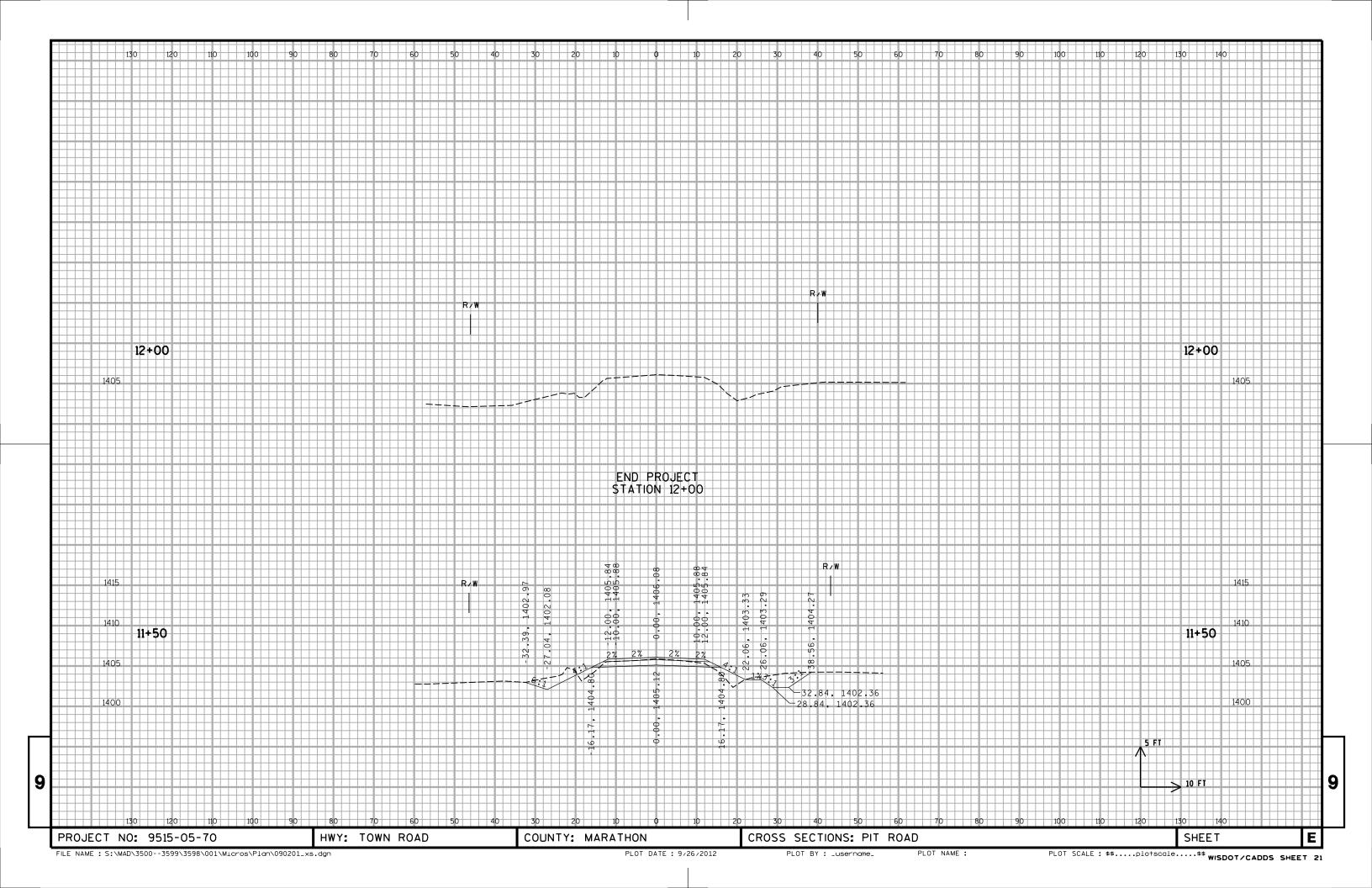
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PLOT DATE: 9/26/2012

PLOT BY: _username_







Notes



Wisconsin Department of Transportation

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