MAY 2014 FEDERAL PROJECT SWL STATE PROJECT STATE OF WISCONSIN PROJECT CONTRACT ORDER OF SHEETS 5849-00-74 WISC 2014190 1 DEPARTMENT OF TRANSPORTATION Section No. 2 Typical Sections and Details (Includes Erosion Control Plan) Section No. 3 Estimate of Quantities Section No. 3 Miscellaneous Quantities PLAN OF PROPOSED IMPROVEMENT Section No. 4 Right of Way Plat Section No. 5 Plan and Profile Section No. 6 Standard Detail Drawings CITY OF FITCHBURG, HAIGHT FARM ROAD Scotion No. 7 Sign Plates Section No. 8 Structure Plans Section No. 9 Computer Earthwork Data (SWAN CREEK BRIDGE B-13-0676) Section No. 9 Cross Sections LOCAL STREET TOTAL SHEETS = DANE COUNTY STATE PROJECT NUMBER 5849-00-74 ACCEPTED FOR ORIGINAL PLANS PREPARED BY BEGIN PROJECT STA. 9+00 Y= 456,100.20 X= 822,459.23 STRUCTURE B-13-0676 DESIGN DESIGNATION Engineers Plantets Surveyors A.A.D.T. 2014 = 3,100 A.A.D.T. 2034 = 3,400 D.H.V. 2034 = 60/40 D.D. PARK = 5.7% DESIGN SPEED = 55 M.P.H. SCHAFFER = 423,400 T-6-N E-41742-6 SPRING GREEN. CONVENTIONAL SYMBOLS PLAN PROFILE CORPORATE LIMITS . GRADE LINE ORIGINAL GROUND PROPERTY LINE MARSH OR ROCK PROFILE Fitchburg LOT LINE (To be noted as such) LIMITED HIGHWAY EASEMENT SPECIAL DITCH EXISTING RIGHT OF WAY GRADE ELEVATION END PROJECT PROPOSED OR NEW R/W LINE STATE OF WISCONSIN STA. 12+00 CULVERT (Profile View) 18 SLOPE INTERCEPT DEPARTMENT OF TRANSPORTATION UTILITIES REFERENCE LINE ELECTRIC Surveyor CITY OF FITCHBURG/JEWELL ASSOCIATES ENGINEERS, INC. EXISTING CULVERT FIBER OPTIC PROPOSED CULVERT JEWELL ASSOCIATES ENGINEERS, INC. (Box or Pipe) SANITARY SEWER Management Consultant <u>KJOHNSON ENGINEERS, INC.</u> COMBUSTIBLE FLUIDS STORM SEWER TELEPHONE APPROVED FOR THE DEPARTMENT WATER DATE: 1 3014 MARSH AREA "COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY UTILITY PEDESTAL TOTAL NET LENGTH OF CENTERLINE = 0.057 MI. COORDINATE SYSTEM (WCCS), DANE COUNTY." POWER POLE WOODED OR SHRUB AREA TELEPHONE POLE E FILE NAME: S:\PROJECTS\K19170 LACY ROAD SWAN CREEK BRIDGE\CADD FILES\ROADWAY\TITLE SHEET.DWG PLOT DATE: 1/22/2014 9:01 AM PLOT BY : STRINE, THERESA WISDOT/CADDS SHEET 10

Ε

SHEET

16"-20" EXISTING BASE COURSE MATERIAL TO BE REMOVED

HWY: HAIGHT FARM ROAD

COUNTY: DANE

TYPICAL EXISTING SECTION

CONTACTS

DESIGN CONSULTANT:

JEWELL ASSOCIATES ENGINEERS, INC. 560 SUNRISE DR. SPRING GREEN, WI 53588 ATTN: GREG JEWELL, P.E., R.L.S. PH: (608) 588-7484 FAX: (608) 588-9322 E-MAIL: greg.jewell@jewellassoc.com

DNR LIAISON:

STATE OF WISCONSIN DNR SOUTH CENTRAL REGION HEADQUARTERS 3911 FISH HATCHERY ROAD FITCHBURG, WI 53711-5397 ATTN: ERIC HEGGELUND PH: (608) 275-3301 FAX: (608) 275-3338 E-MAIL: eric.heggelund@wisconsin.gov

CITY OF FITCHBURG

GUS VANDERWEGEN, P.E. - PROJECT ENGINEER 5520 LACY ROAD FITCHBURG, WI 53711 PH: (608) 270-4266 CELL: (608) 576-5665 EMAIL: `Gus.´VanderWegen@city.fitchburg.wi.us

UTILITIES

TELPHONE

AT&T - WISCONSIN 316 WEST WASHINGTON AVENUE, ROOM 301 MADISON, WI 53703 ATTN: CAROL ANASON PH: (608) 252-2385 CELL: (920) 475-2799 FAX: (608) 252-2238 EMAIL: ca2624@att.com

ELECTRIC

MADISON GAS & ELECTRIC 133 SOUTH BLAIR STREET MADISON, WI 53788 ATTN: RICH PARKER PH: (608) 252-7379 CELL: (608) 444-9619 FAX: (608) 252-5623 EMAIL: RParker@mge.com

CABLE TV

CHARTER COMMUNICATIONS 2701 DANIELS STREET MADISON, WI 53718 ATTN: BRANDON STORM PH: (608) 274-3822 EXT. 6642 FAX: (608) 274-3198 E-MAIL: brandon.storm@chartercom.com

GAS

MADISON GAS & ELECTRIC MADISON, WI 53788 ATTN: STEVE BEVERSDORF, P.E. PH: (608) 252-1552 CELL: (608) 444-9620 EMAIL: SBeversdorf@mge.com



** DENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBERS

GENERAL NOTES

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

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE FIRST BEEN INDICATED FOR REMOVAL BY THE ENGINEER IN THE FIFI D.

EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE, AND IS NOT SHOWN ON THE CROSS SECTIONS BUT IS MEASURED AND PAID FOR AS EXCAVATION COMMON. EXACT LOCATIONS OF EBS WILL BE DETERMINED

UNLESS SHOWN OTHERWISE DISTURBED AREAS SHOWN WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS ARE TO BE FERTILIZED (TYPE B), SEEDED (USE SEED MIX NO. 20), SEEDING TEMPORARY, AND EROSION MAT ÙRBAN CLASS I TYPE B/MULCHED AS DIRECTED BY THE ENGINEER. SEED MIX #60 SHALL BE PLACED ON POST CONSTRUCTION WET AREAS.

WHEN THE QUANTITY OF THE ITEM OF BASE AGGREGATE DENSE OR ASPHALTIC SURFACE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE, AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER IN THE FIELD.

SILT FENCE AND CULVERT PIPE CHECKS WITH ROCK BAGS SHALL BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER IN THE FIELD. SILT FENCE SHALL BE PLACED PRIOR TO CONSTRUCTION AND IN PLACE PRIOR

MULCH/EROSION MAT URBAN CLASS I TYPE B ALL MAINLINE SLOPES AS DIRECTED BY THE ENGINEER IN THE FIELD.

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

FILE EXPANSION IS VARIABLE AND IS ESTIMATED AT 25%

ADJUST DITCH GRADING AS NECESSARY TO FIT FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

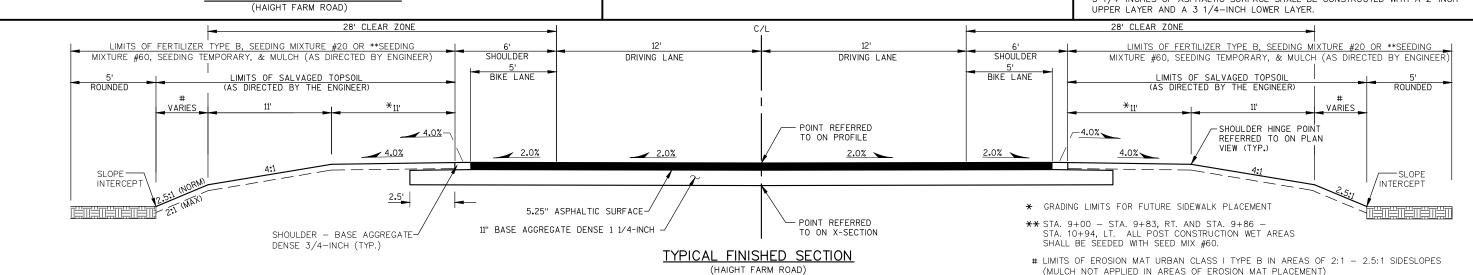
THE EXACT LOCATION OF PRIVATE ENTRANCES SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

WETLANDS ARE PRESENT WITHIN THE PROJECT LIMITS. THE CONTRACTOR SHALL NOT OPERATE EQUIPMENT BEYOND THE SLOPE INTERCEPTS FROM STA. 9+00 -STA. 11+08, RT. AND STA. 9+86 - STA. 10+94, LT.

INLET AND OUTLET ELEVATIONS FOR CULVET PIPES AS SHOWN ON THE PLAN MAY BE ADJUSTED TO FIT EXISTING FIELD CONDITIONS.

REMOVAL OF ASPHALTIC/CONCRETE SURFACES WHERE AN ABUTTING ASPHALTIC SURFACE IS TO REMAIN IN PLACE SHALL REQUIRE A SAWCUT MEETING THE APPROVAL OF THE ENGINEER IN THE FIELD.

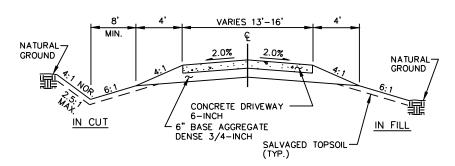
5 1/4-INCHES OF ASPHALTIC SURFACE SHALL BE CONSTRUCTED WITH A 2-INCH UPPER LAYER AND A 3 1/4-INCH LOWER LAYER.



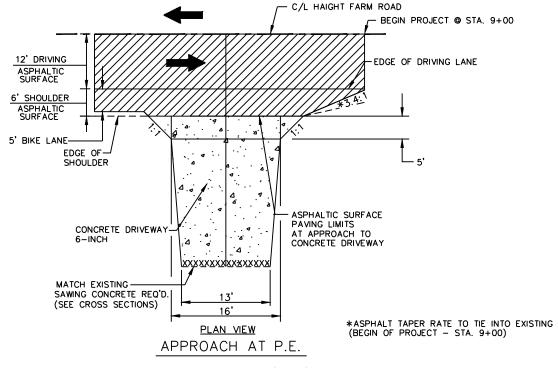
PROJECT NO: 5849-00-74

TYPICAL EXISTING & FINISHED SECTION, GENERAL NOTES, CONTACTS, & UTILITIES

TYPICAL P.E. PROFILE



TYPICAL CROSS—SECTION FOR P.E. P.E. - STA. 9+36, LT.



TYPICAL FIELD ENTERANCE (P.E.) DETAILS

LIMITS OF ASPHALTIC SURFACE

HWY: HAIGHT FARM ROAD

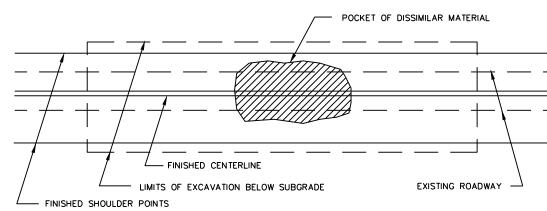
LIMITS OF CONCRETE DRIVEWAY 6-INCH

COUNTY: DANE

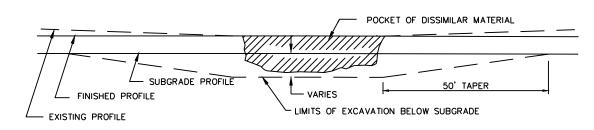
CONSTRUCTION DETAILS

PLOT BY: STRINE, THERESA

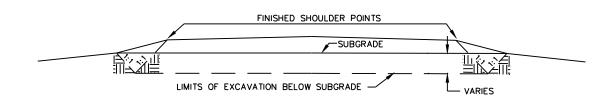
SHEET



PLAN VIEW



PROFILE VIEW



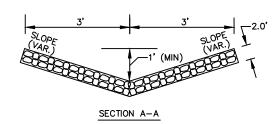
CROSS SECTION VIEW

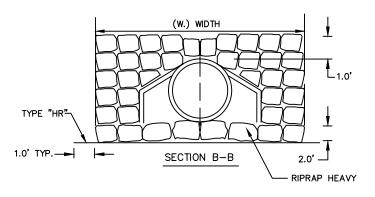
- EXACT LOCATION OF E.B.S. (EXCAVATION BELOW SUBGRADE) SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- 2. E.B.S. AREA TO BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE ENGINEER. BACKFILL MUST BE HOMOGENEOUS WITH ADJOINING FILL MATERIAL.
- 3. THE FILL SECTION WITHIN 100' OF THE MOUTH OF THE CUT MUST BE KEPT 2' BELOW SUBGRADE UNTIL E.B.S. IS COMPLETED. LATERAL LIMITS OF EXCAVATION SHALL BE THE SUBGRADE SHOULDER POINTS.

EXCAVATION BELOW SUBGRADE (E.B.S.)

PROJECT NO: 5849-00-74

В	STANDARE APRON ENDWALL VARIABLE 1 VARIABLE	
L = 28'	-RIPRA	A I P HEAVY
	W = 6' PLAN VIEW	





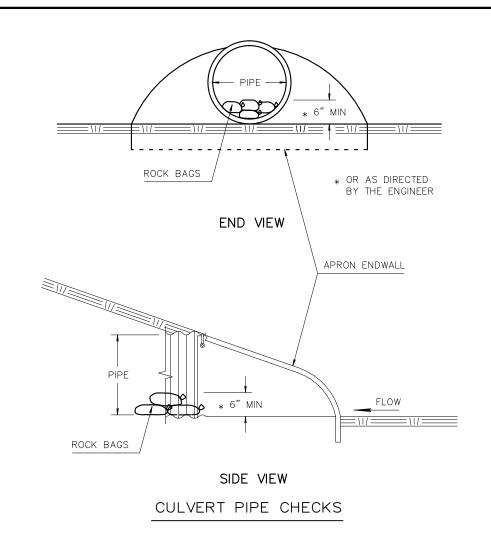
RIPRAP HEAVY DISCHARGE APRON

SEE MISCELLANEOUS QUANTITIES AND PLAN & PROFILE SHEET FOR LOCATIONS AND DIMENSIONS

HWY: HAIGHT FARM ROAD

		HYDROLOGIC SOIL GROUP											
		-	4			3		(3)	
	S		RANGE CENT)	SLOPE RANGE (PERCENT)			S		RANGE CENT)	SLOPE RANGE (PERCENT)			
LAND USE	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56	
MEDIAN STRIP-TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40	
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38	
PAVEMENT													
ASPHALT						.70 -	95						
CONCRETE						.80 -	95						
BRICK						.70 -	80						
DRIVES, WALKS	3					.75 -	85						
ROOFS						.75 -	95						
GRAVEL ROADS	S, SH	OULDE	RS			.40 -	60						

TOTAL PROJECT AREA= 0.69 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.60 ACRES

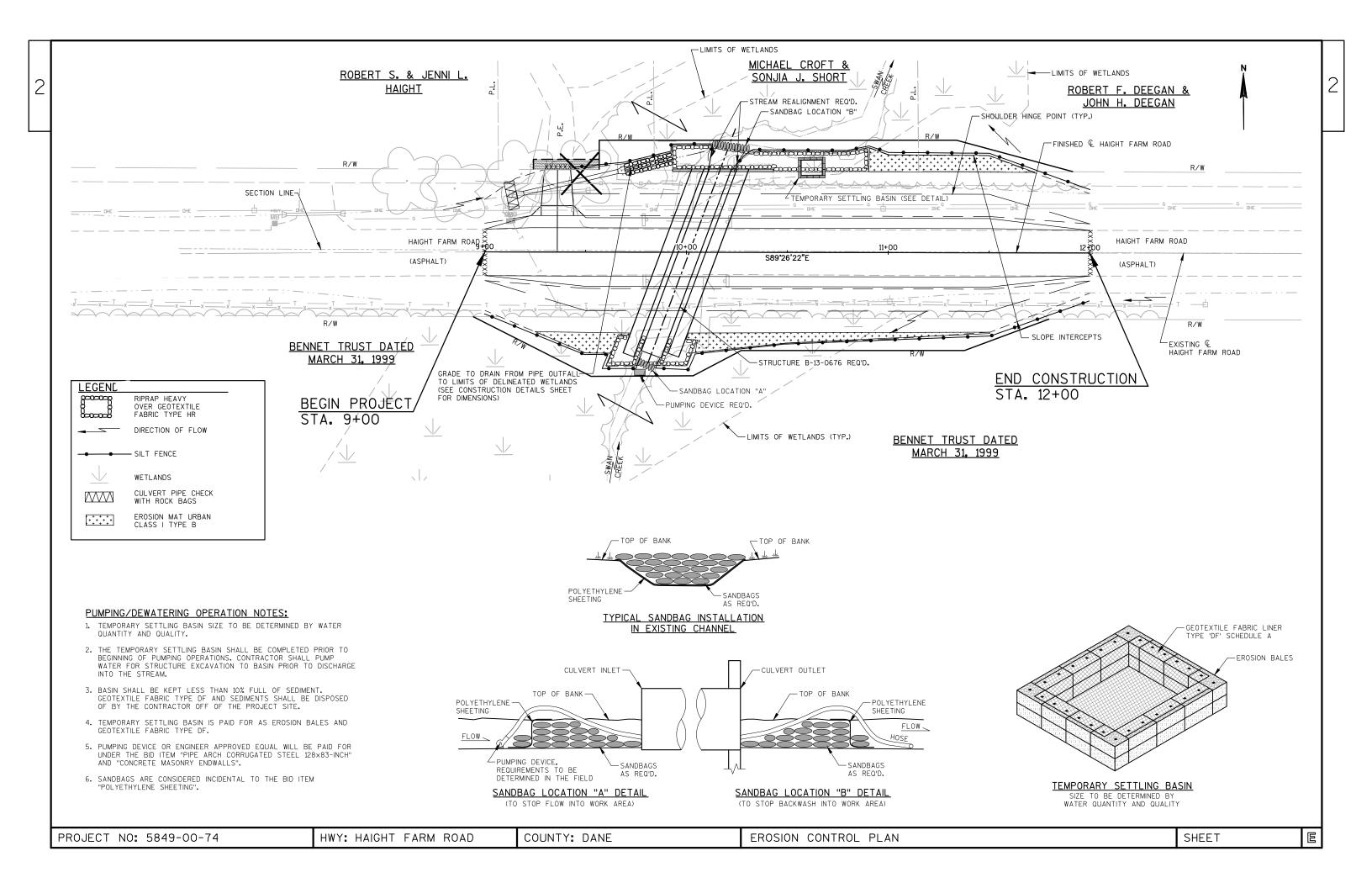


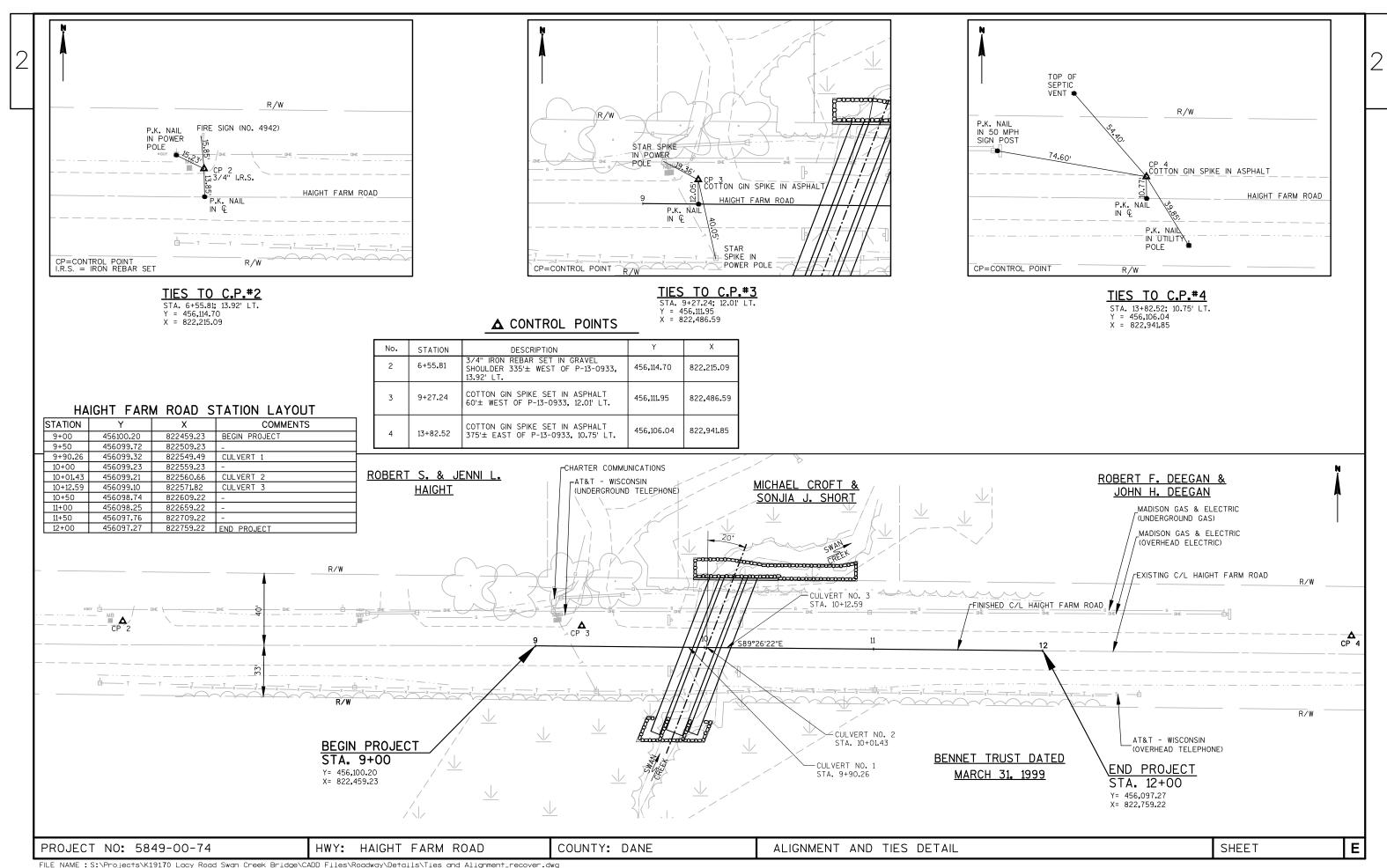
PROJECT NO: 5849-00-74

COUNTY: DANE

CONSTRUCTION DETAILS

SHEET





DATE 18	MAD14	F	стімат	E OF QUANT	
LINE	IVIAK I 4	E -	SIIWAI	E OF QUANT	5849-00-74
NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY
0010	201. 0105	CLEARING	STA	3. 000	3.000
0020	201. 0205	GRUBBI NG	STA	3. 000	3. 000
0030	203. 0600. S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS (STATION) 01. 10+0	LS n	1. 000	1. 000
0040	204. 0100	REMOVING PAVEMENT	SY	70.000	70. 000
0050	205. 0100	EXCAVATION COMMON **P**	CY	270. 000	270. 000
0060	206. 1000	EXCAVATION FOR STRUCTURES BRIDGES	LS	1. 000	1. 000
0070	200 0100	(STRUCTURE) 01. B-13-0676	CV	1 (75 000	1 /75 000
0070 0080	208. 0100 209. 0100	BORROW BACKFILL GRANULAR	CY CY	1, 675. 000 70. 000	1, 675. 000 70. 000
0080	210. 0100	BACKFILL STRUCTURE	CY	1, 270. 000	1, 270. 000
0100	213. 0100	FINISHING ROADWAY (PROJECT) 01.	EACH	1. 000	1. 000
0100	210.0100	5849-00-74	271011	1. 000	1. 000
	005 0110	DAGE ACCRECATE DENCE O /4 I NOU		45.000	45.000
0110	305. 0110	BASE AGGREGATE DENSE 3/4-INCH	TON	45. 000	45. 000
0120 0130	305. 0120 416. 0160	BASE AGGREGATE DENSE 1 1/4-INCH CONCRETE DRIVEWAY 6-INCH	TON SY	930. 000 40. 000	930. 000 40. 000
0130	416. 0160 455. 0605	TACK COAT	GAL	30. 000	30. 000
0140	465. 0105	ASPHALTI C SURFACE	TON	350. 000	350. 000
0160	504.0900	CONCRETE MASONRY ENDWALLS	CY	42.000	42.000
0170	505. 0410	BAR STEEL REINFORCEMENT HS CULVERTS	LB	3, 950. 000	3, 950. 000
0180	505. 0610	BAR STEEL REINFORCEMENT HS COATED	LB	520.000	520.000
0400	E00 6101	CULVERTS	. =	40.000	40.000
0190	520. 0124	CULVERT PIPE CLASS III 24-INCH	LF LF	48. 000	48. 000
0200	520. 1024	APRON ENDWALLS FOR CULVERT PIPE 24-INC	H EACH	2. 000	2. 000
0210	524. 0115	CULVERT PIPE SALVAGED 15-INCH	LF	35. 000	35. 000
0220	606. 0300	RI PRAP HEAVY	CY	120. 000	120. 000
0230	619. 1000	MOBI LI ZATI ON	EACH	1. 000	1.000
0240	625.0500	SALVAGED TOPSOIL **P**	SY	1, 950. 000	1, 950. 000
0250	627. 0200	MULCHI NG **P**	SY	3, 350. 000	3, 350. 000
0260	628. 1104	EROSION BALES	EACH	35. 000	35. 000
0270	628. 1504	SILT FENCE	LF	740. 000	740. 000
0280	628. 1520	SILT FENCE MAINTENANCE	LF	1, 480. 000	1, 480. 000
0290	628. 1905	MOBILIZATIONS EROSION CONTROL	EACH	4. 000	4. 000
0300	628. 1910	MOBILIZATIONS EMERGENCY EROSION CONTRO		2. 000	2.000
0210	620 2000	EDOSLON MAT LIDDAN CLASS I TYPE D	SY	210 000	210, 000
0310 0320	628. 2008 628. 5505	EROSION MAT URBAN CLASS I TYPE B POLYETHYLENE SHEETING	SY SY	210. 000 20. 000	210. 000 20. 000
0320	628. 7555	CULVERT PIPE CHECKS	EACH	4. 000	4. 000
0340	629. 0210	FERTILIZER TYPE B **P**	CWT	2. 000	2. 000
0350	630. 0120	SEEDING MIXTURE NO. 20 **P**	LB	60. 000	60. 000
0360	630. 0160	SEEDING MIXTURE NO. 60 **P**	LB	2. 000	2. 000
0370	630. 0200	SEEDING TEMPORARY **P**	LB	30.000	30.000
0380	630. 0300	SEEDING BORROW PIT **P**	LB	18. 000	18. 000
0390	633. 5100	MARKERS ROW	EACH	13.000	13.000
0400	633. 5200	MARKERS CULVERT END	EACH	4. 000	4. 000
0410	638. 2602	REMOVING SIGNS TYPE II	EACH	4. 000	4. 000
0420	638. 3000	REMOVING SMALL SIGN SUPPORTS	EACH	4.000	4.000
0430	642. 5001	FIELD OFFICE TYPE B	EACH	1. 000	1.000
0440	643. 0100	TRAFFIC CONTROL (PROJECT) 01. 5849-00-		1.000	1.000
0450	645. 0105	GEOTEXTILE FABRIC TYPE C	SY	350. 000	350. 000
0460	645. 0111	GEOTEXTILE FABRIC TYPE DF SCHEDULE A	SY	40. 000	40. 000
0470	645. 0120	GEOTEXTILE FABRIC TYPE HR	SY	235. 000	235. 000
0480	646. 0106	PAVEMENT MARKING EPOXY 4-INCH	LF	1, 200. 000	1, 200. 000
0490	650. 4500	CONSTRUCTION STAKING SUBGRADE	LF	300.000	300.000
0500	650. 5000	CONSTRUCTION STAKING BASE	LF	300.000	300.000

DATE 18	BMAR14	E S	TIMATE	O F Q U A N	
LI NE NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	5849-00-74 QUANTI TY
0510	650. 6000	CONSTRUCTION STAKING PIPE CULVERTS	EACH	4. 000	4. 000
0520	650. 6500	CONSTRUCTION STAKING STRUCTURE LAYOUT	LS	1. 000	1. 000
		(STRUCTURE) 01. B-13-0676			
0530	650. 9910	CONSTRUCTION STAKING SUPPLEMENTAL	LS	1. 000	1.000
		CONTROL (PROJECT) 01. 5849-00-74			
0540	650. 9920	CONSTRUCTION STAKING SLOPE STAKES	LF	300.000	300.000
0550	690. 0150	SAWING ASPHALT	LF	46. 000	46. 000
0560	690. 0250	SAWI NG CONCRETE	LF	13. 000	13. 000
0570	715.0502	INCENTIVE STRENGTH CONCRETE STRUCTURES	DOL	252. 000	252.000
0580	SPV. 0090	SPECIAL 01. PIPE ARCH CORRUGATED STEEL	LF	100.000	100.000
		128X83 I NCH			
0590	SPV. 0090	SPECIAL 02. CULVERT PIPE CORRUGATED	LF	200. 000	200.000
		STEEL 66 INCH			

CLEARING & GRUBBING

 STATION - STATION
 LOCATION
 201.0105 CLEARING GRUBBING (STA)
 201.0205 GRUBBING (STA)

 9+00 - 12+00
 MAINLINE
 3
 3

 TOTALS =
 3
 3

REMOVING PAVEMENT

3

EARTHWORK SUMMARY

			**	P**					REDUCED	REDUCED	EXPANDED	EXPANDED	EXPANDED						
			(1)	\$ALVAGED/				MAR\$H	EB\$	MAR\$H	EB\$	ROCK	UNEXPANDED	EXPANDED				
			205	.0100	UNUSABLE		205.0400	205.0200	IN FILL	IN FILL	BACKFILL	BACKFILL		FILL	FILL	MASS			
			COMMONE	XCAVATION	PAVEMENT	AVAILABLE	MARSH	ROCK	(CY)	(CY)	(CY)	(CY)	(CY)	(CY)	(CY)	ORDINATE		208.0100	
			CUT (2)	EB\$ (3)	MATERIAL	MATERIAL	EXCAVATION	EXCAVATION	FACTOR	FACTOR	FACTOR	FACTOR	FACTOR		FACTOR	+/-	WAŞTE	BORROW	
CATEGORY	FROM/TO STA	LOCATION	(CY)	(CY)	(CY) (4)	(CY) (5)	(CY) (6)	(CY) (7)	0.6 (8)	0.8 (9)	1.5 (10)	1.5 (11)	1.1 (12)		1.25 (13)	(CY) (14)	(CY)	(CY)	COMMENT:
010	9+00 - 12+00	MAINLINE	246	-	-	246	-	-	-	-			•	1555	1945	-1699	-	1699	
	9+36	MAINLINE, LT P.E.	24	-	-	24	-	-	-	-	-	-	-	0	0	24	-	-24	
	TO	TALS =	270			270								1555	1945	-1675		1675	

NOTES:

- 1.) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
- 2.) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT
- 3.) EBS EXCAVATION TO BE BACKFILLED WITH SELECT CRUSHED MATERIAL.
- 4.) SALVAGED/UNUSABLE PAVEMENT MATERIAL
- 5.) AVAILABLE MATERIAL = CUT SALVAGED/UNUSABLE PAVEMENT MATERIAL
- 6.) MARSH EXCAVATION TO BE BACKFILLED WITH SELECT CRUSHED MATERIAL. ITEM 205.0400
- 7.) ROCK EXCAVATION, ITEM NUMBER 205,0200
- 8.) REDUCED MARSH IN FILL EXCAVATED MARSH MATERIAL IS USABLE IN FILLS OUTISDE THE 1:1 SLOPE. MARSH IN FILL REDUCTION FACTOR = 0.6
- 9.) REDUCED EB\$ IN FILL EXCA"
- 10) EXPANDED MARSH BACKFILL THIS IS TO BE FILLED WITH SELECT CRUSHED MATERIAL. MARSH BACKFILL FACTOR = 1.5. ITEM NUMBER 312.0115
- 11.)EXPANDED EB\$ BACKFILL THIS IS TO BE FILLED WITH SELECT CRUSHED MATERIAL. EB\$ BACKFILL FACTOR = 1.3. ITEM NUMBER 312.0115
- 12.) EXPANDED ROCK FACTOR = 1.1
- 13.) EXPANDED FILL FACTOR 1.25: EXPANDED FILL = (UNEXPANDED FILL REDUCED MARSH IN FILL)*1.25
- 14.) THE MASS ORDINATE+ OR QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE CATEGORY. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE CATEGORY. **P** PAY PLAN QUANTITY

BASE AGGREGATE DENSE				CONCR	CONCRETE DRIVEWAY 6-INCH			ASPHALTIC SURFACE					
STATION - STATION 9+00 - 12+00 9+36	LOCATION MAINLINE P.EMAINLINE, LT. UNDISTRIBUTED TOTALS =	305.0110 BASE AGGREGATE DENSE 3/4-INCH (TON) 21 19 5	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH (TON) 877 - 53	STATION - STATION	LOCATION P.EMAINLINE, LT. TOTALS =	416.0160 (SY) 40 40	STATION - STATION	LOCATION MAINLINE UNDISTRIBUTED TOTAL S =	455.0605 TACK COAT (GAL) 27 3	465.0105 ASPHALTIC SURFACE (TON) 328 22 350			
	CULVE	RT PIPE						RIPRAP I	HEAVY				
		520.0124 CULVERT PIPE CLASS III 24-INCH	520.1024 APRON ENDWALLS FOR CULVERT PIPE CLASS III 24-INCH		PIPE SALVAGED	15-INCH 524.0115			** 606.0300 RIPRAP HEAVY	645.0120 GEOTEXTILE FABRIC TYPE HR			
9+36	P.EMAINLINE, LT TOTALS =	(LF) 48	(EACH) 2	<u>STATION</u> 9+36	LOCATION MAINLINE, LT.	(LF) 35 ———————————————————————————————————	<u>STATION - STATIOI</u> 9+68 - 9+92 -	MAINLINE, LT. UNDISTRIBUTED	12 3	(\$Y) 24 1			
	STEEL THICKNESS = 0.06 ALUMINUM THICKNESS =	4 INCHES	•				** M	TOTALS =	15 HERE	25			
JECT NO: 58	349-00-74	HWY:	HAIGHT FARM ROAD	COUNTY: DANE		MISCELLANEOUS QUAN	NTITIES			SHEET			

	FINISHING ITEMS		SILT FENCE
	#P## 627.0200 628.2008 629.0210 FERTILIZER SEED (CWT) 1683 193 1.2 0.6 662 17 0.2 0.5 662 17 0.2	DING MIXTURE SEEDING MIXTURE SEEDING SI	#P** 0.0300 EDING ROW PIT (LB) 14 TOTALS = 740 628.1504 SILT FENCE MAINTENANCE (LF) 628.1500 SILT FENCE MAINTENANCE (LF) TOTALS = 740 1480
# STATION 9+86 - STATION 10+94, LT. STATION 9+00 - STATION 9+83, RT. **P** PAY PLAN QUANTITY			CULVERT PIPE CHECKS 628.7555 CULVERT PIPE CHECKS STATION LOCATION (EACH)
628.1104 STATION LOCATION (EACH) 10+57 MAINLINE, LT 28 UNDISTRIBUTED 7		POLYETHYLENE SHEETING STATION	9+20 P.E MAINLINE, LT. 4 TOTALS = 4 MARKERS ROW POINT NO. STATION LOCATION (EACH) 10 9+00 MAINLINE, 32.09' RT. 1
MARKERS CULVERT END STATION LOCATION (EACH) 9+68 MAINLINE, 45' RT. 1 10+03 MAINLINE, 45' RT. 1 9+92 MAINLINE, 40' LT. 1 10+40 MAINLINE, 40' LT. 1 TOTALS = 4	REMOVI	JCTURE P-13-0933 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	10 9+00 MAINLINE, 32,09' RT. 1 11 9+00 MAINLINE, 40,91' LT. 1 12 9+56 MAINLINE, 56,00' LT. 1 13 9+56 MAINLINE, 56,00' LT. 1 14 11+35 MAINLINE, 56,00' LT. 1 15 12+00 MAINLINE, 38,00' LT. 1 16 12+00 MAINLINE, 33,20' LT. 1 17 12+00 MAINLINE, 32,80' RT. 1 18 11+80 MAINLINE, 32,75' RT. 1 19 11+50 MAINLINE, 45,00' RT. 1 20 10+18 MAINLINE, 53,00 RT. 1 21 10+03 MAINLINE, 51,00' RT. 1 22 9+53 MAINLINE, 61,00' RT. 1 TOTALS = 13
650.450 SUBGRA	500 650.5000 PIPE LAYOUT SUPP	650.9910 650.9920 PLEMENTAL SLOPES CONTROL STAKES	PAVEMENT MARKING EPOXY 4-INCH
STATION -STATION LOCATION (LF) 9+00 - 12+00 MAINLINE 300 9+36 P.E., LT. - 9+90 MAINLINE -		(LS) (LF) 300	SAWING ASPHALT / CONCRETE 690,0150 690,0250 SAWING SAWING ASPHALT CONCRETE STATION LOCATION (LF) (LF)
10+01 MAINLINE - 10+13 MAINLINE - PROJECT - TOTALS = 300		1 300	9+00 MAINLINE 23 - 9+36 MAINLINE, LT 13 12+00 MAINLINE 23 -

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	PROPERTY LINE RECORDED AS	PL (100')
ACCESS RIGHTS ACRES AND OTHERS BARN CENTERLINE CERTIFIED SURVEY MAP CORNER CONNER CONVEYANCE OF RIGHTS	AR AC. ET.AL. B. C/L CSM COR. CR	REFERENCE LINE REFERENCE LINE RELEASE OF RIGHTS REMAINING RIGHT-OF-WAY SECTION SHED STATION TEMPORARY LIMITED EASEMENT	R/L ROR REM. R/W SEC. S. STA. TLE
DOCUMENT EASEMENT GARAGE	DOC. EASE. G.	VOLUME CURVE DATA	V.
HIGHWAY EASEMENT HOUSE HOUSE TRAILER LAND CONTRACT MONUMENT PAGE PERMANENT LIMITED EASEMENT	H.E. H. H.T. LC MON. P. PLE	LONG CHORD LONG CHORD BEARING RADIUS DEGREE OF CURVE CENTRAL ANGLE OR DELTA LENGTH OF CURVE TANGENT	LCH LCB R D DELTA L

CONVENTIONAL SYMBOLS

FOUND SURVEY MONUMENT (WITH POINT NUMBER)	o 1040	PROPOSED R/W LINE EXISTING H.E. LINE	122232
R/W MONUMENT	o • (SET)	PROPERTY LINE	
R/W STANDARD	△ ▲ (SET)	LOT & TIE LINES	
SIGN	ISIGN	SLOPE INTERCEPTS CORPORATE LIMITS	111111111111111111111111111111111111111
SECTION CORNER MONUMENT	(1)	NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	******
SECTION CORNER SYMBOL	(514) (919)	NO ACCESS (BY ACQUISTION) NO ACCESS (BY STATUTORY AUTHORITY)	######################################
FEE (HATCH VARIES)	11/11	SECTION LINE	
TEMPORARY LIMITED EASEMENT	E. Marid	QUARTER LINE SIXTEENTH LINE	==
PERMANENT LIMITED	k L A	EXISTING CENTERLINE	
R/W BOUNDARY POINT	(RWB2D)	PROPOSED REFERENCE LINE	
PARCEL NUMBER	8	PARALLEL OFFSET	<u> </u>
UTILITY PARCEL NUMBER	9	ENCROACHMENT	(E)/TYPE
SIGN NUMBER (OFF PREMISE)	(21-1)		
BUILDING			

CONVENTIONAL UTILITY SYMBOLS

1.2	0011121111011112			
WATER	——w——	SANITARY SEWER		-SAN
GAS	——c—	STORM SEWER	_	-ss
TELEPHONE OVERHEAD	— T —		NON COMPENSABLE	COMPENSABLE
TRANSMISSION LINES		POWER POLE	Ь	į.
ELECTRIC	——E——	TELEPHONE POLE	Ø	ø
CABLE TELEVISION	——ту ——	TELEPHONE PEDESTA	LX	×
FIBER OPTIC	——F0 ——	ELECTRIC TOWER	\triangleright	3

NOTES

COORDINATES AND BEARINGS ON THIS PLAT ARE ORIENTED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, DANE COUNTY ZONE, NAD 83 (2011) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER SURVEYS OF PUBLIC RECORD.

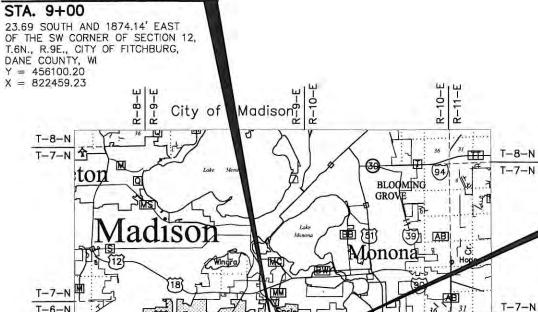


T-6-N

T-6-N T-5-N

PB

R-8-E R-9-E



Fitchburg

Oregon

R/W PROJECT NUMBER SHEET TOTAL NUMBER SHEETS 5849-00-04 FEDERAL PROJECT NUMBER 4.01 2

PLAT OF RIGHT-OF-WAY REQUIRED FOR CITY OF FITCHBURG, HAIGHT FARM ROAD (SWAN CREEK BRIDGE B-13-0676)

LOCAL STREET

DANE COUNTY

CONSTRUCTION PROJECT NUMBER 5849-00-74

END RELOCATION ORDER

STA. 12+00

T-6-N

T-5-N

McFarland

Stoughton

RUTLAND

26.62' SOUTH AND 2174.13' EAST OF THE SW CORNER OF SECTION 12, T.6N., R.9E., CITY OF FITCHBURG, DANE COUNTY, WI Y = 456097.27X = 822759.22

560 SUNRISE DRIVE SPRING GREEN, W 53588 PHONE: 608.588.7484 FAX: 608.588.9322

I HEREBY CERTIFY THAT THIS PLAT WAS MADE FOR THE CITY OF FITCHBURG AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.





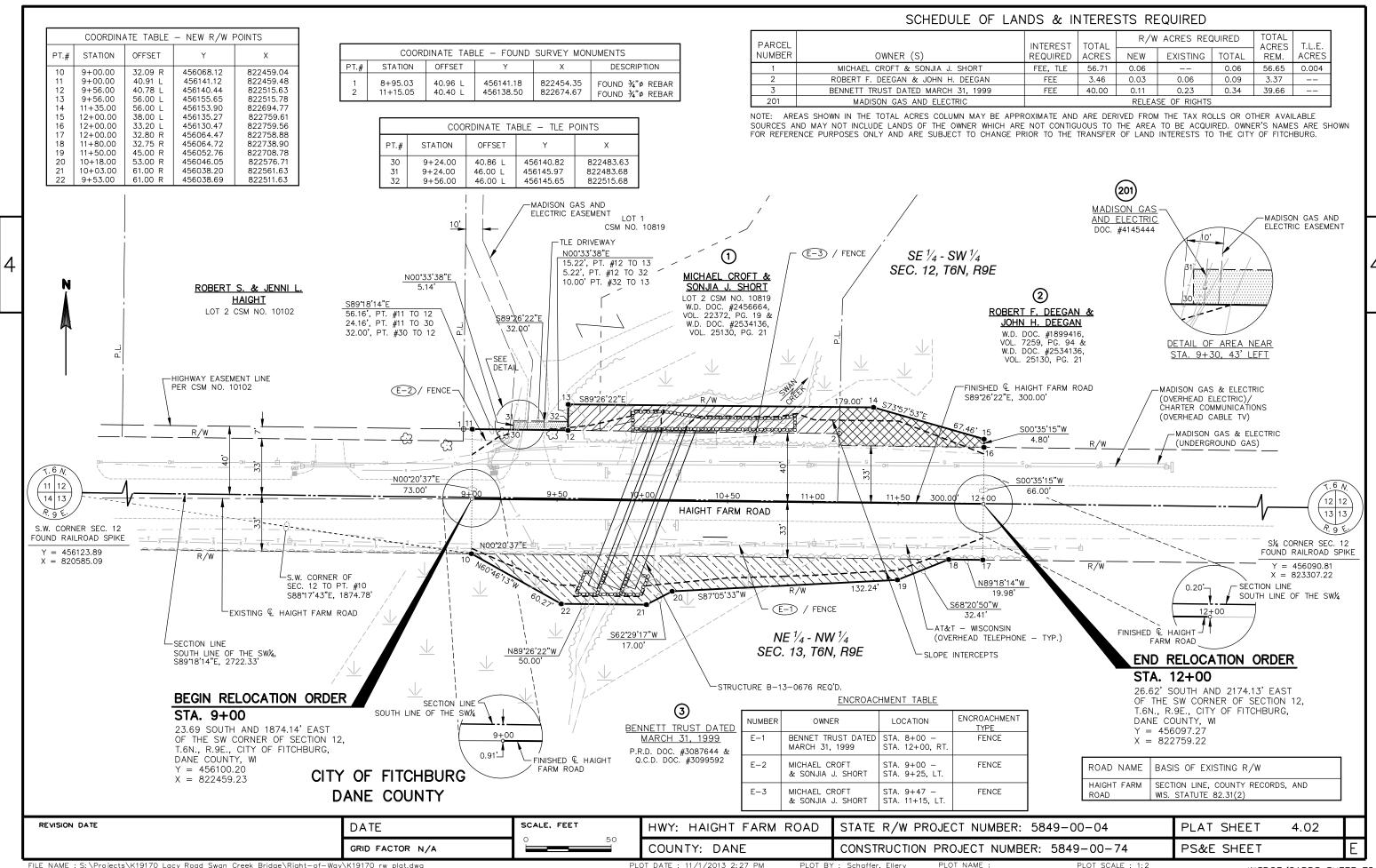
TOTAL NET LENGTH OF CENTERLINE = 0.057 MI.

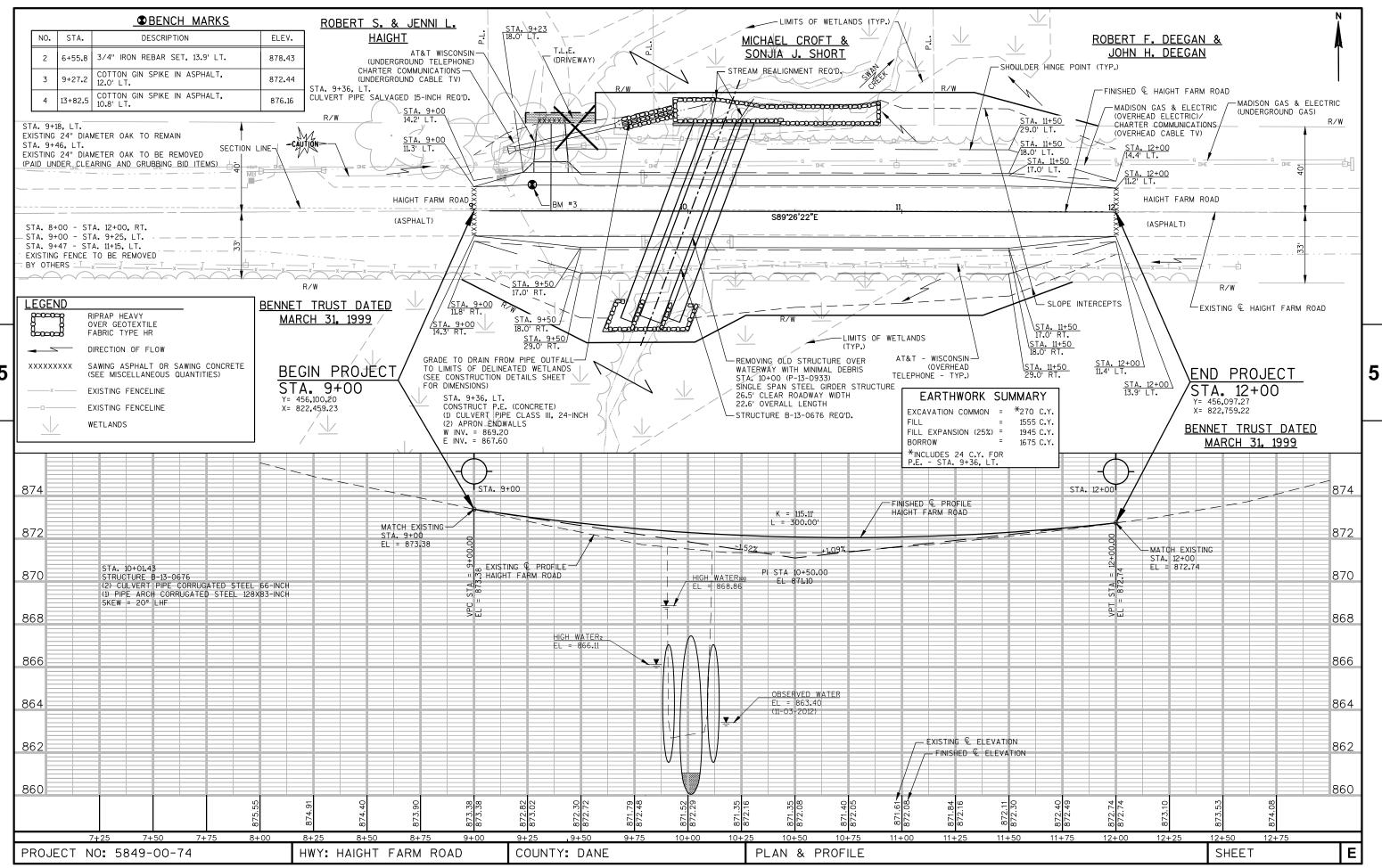
REVISION DATE

DUNN

LAYOUT

2 Ml. 4 Ml.





Standard Detail Drawing List

08E09-06	SILT FENCE
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
I2A03-10	NAME PLATE (STRUCTURES)
I5A01-11	MARKER POST FOR RIGHT-OF-WAY
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
I5A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
I5C02-05A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
I5C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
I5C08-16A	PAVEMENT MARKING (MAINLINE)

TYPICAL APPLICATION OF SILT FENCE

6

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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

တ ∞

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Δ

			ı	METAL	APR	ON EN	NDWAL	LS			
PIPE	MIN. 1	THICK.				APPROX.					
DIA.	(Incl		A	В	Н	L	Lį	L ₂	W	SLOPE	BODY
(IN.)	STEEL	ALUM.	(±]")	(MAX.)	(±]")	(±1½")	①	0	(±2")		
12	.064	.060	6	6	6	21	12	171/2	24	21/2+o 1	1Pc.
15	.064	.060	7	8	6	26	14	213/4	30	2½+o 1	1Pc.
18	.064	.060	8	10	6	31	15	281/4	36	2½+o 1	1Pc.
21	.064	.060	9	12	6	36	18	29%	42	21/2+o 1	1Pc.
24	.064	. 075	10	13	6	41	18	371/4	48	$2\frac{1}{2}$ to 1	1Pc.
30	.079	. 075	12	16	8	51	18	521/4	60	$2\frac{1}{2}$ to 1	1Pc.
36	.079	. 105	14	19	9	60	24	59¾	72	$2\frac{1}{2}$ to 1	2 Pc.
42	.109	. 105	16	22	11	69	24	75%	84	$2\frac{1}{2}$ to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 ¹ / ₄ +o 1	3 Pc.
54	.109	. 105	18	30	12	84	30	851/2	102	21/4+0 1	3 Pc.
60	.109×	.105×	18	33	12	87	_		114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	_	_	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	_	_	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	_	_	132	11/2+0 1	3 Pc.
84	.109×		18	45	12	87	_	_	138	1/2+0 1	3 Pc.
90	.109×	.105×	18	37	12	87	_	_	144	1/2+0 1	3 Pc.
96	.109×	.105×	18	35	12	87	_		150	11/2+0 1	3 Pc.

* EXCEPT CENTER PANEL

SEE GENERAL NOTES

PLAN VIEW

END VIEW

SIDE ELEVATION

METAL ENDWALLS

SHOULDER

SLOPE

	REINFORCED CONCRETE APRON ENDWALLS													
PIPE		APPROX.												
DIA.	Т	A	В	С	D	E	G	SLOPE						
12	2	4	24	48 1/8	721/8	24	2	3 to 1						
15	21/4	6	27	46	73	30	21/4	3 to 1						
18	21/2	9	27	46	73	36	21/2	3 to 1						
21	23/4	9	36	371/2	731/2	42	23/4	3 to 1						
24	3	91/2	431/2	30	731/2	48	3	3 to 1						
27	31/4	101/2	$49^{1}/_{2}$	24	731/2	54	31/4	3 to 1						
30	$3\frac{1}{2}$	12	54	193⁄4	731/2	60	31/2	3 to 1						
36	4	15	63	34¾	97¾	72	4	3 to 1						
42	$4\frac{1}{2}$	21	63	35	98	78	41/2	3 to 1						
48	5	24	72	26	98	84	5	3 to 1						
54	51/2		65	* ** 33 ¹ / ₄ -35	* 98 ¹ / ₄ - 100	90	51/2	2% to 1						
60	6	* ** 30-35	60	39	99	96	5	2 to 1						
66	61/2		* ** 72-78	* * * 21-27	99	102	51/2	2 to 1						
72	7	* ** 24-36	78	21	99	108	6	2 to 1						
78	71/2	* ** 24-36	78	21	99	114	61/2	2 to 1						
84	8	36	901/2	21	1111/2	120	61/2	11/2+0 1						
90	81/2	41	871/2	24	1111/2	132	61/2	11/2+0 1						

*MINIMUM

PLAN

END VIEW

END SECTION

GROOVED END ON OUTLET END SECTION TONGUE END ON INLET END SECTION

BAR OR STEEL FABRIC

REINFORCEMENT

LONGITUDINAL SECTION

CONCRETE ENDWALLS

OPTIONAL

1 1/2" R

CULVERT

MEASURED LENGTH

OF CULVERT (TO-

NEAREST FOOT)

DESIGN

REINFORCED

SECTION A-A)

END CORNER PLATES MAY

BE FASTENED TO APRON

THE SURFACES TIGHTLY

TOGETHER

PROPER BY BOLTS, RIVETS, OR RESISTANCE SPOT WELDS WHICH WILL HOLD

TOE PLATE (SAME THICKNESS

AND METAL AS APRON) SHALL

BE FURNISHED WHEN CALLED

FOR ON THE PLANS

FDGE (SFE

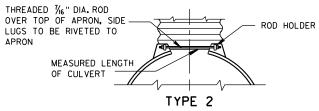
END SECTION CONNECTOR STRAP LUG

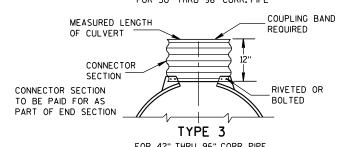
1" WIDE, 12 GA. (0.109"

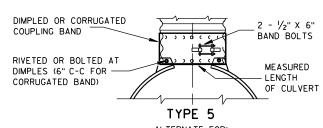
THICK) GALVANIZED STRAP

WITH STANDARD 6" X 1/2" BAND BOLT AND NUT

TYPE 1 FOR 12" THRU 24" CORR. PIPE





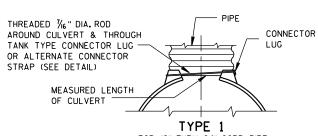


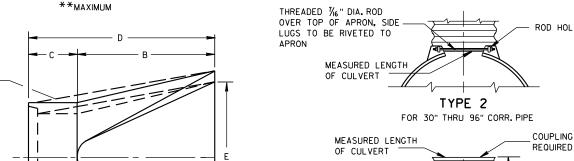
ALTERNATE FOR: ALL SIZES CORRUGATED CIRCULAR PIPE

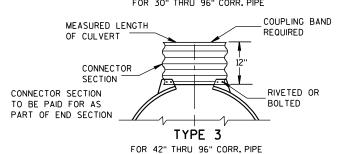
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

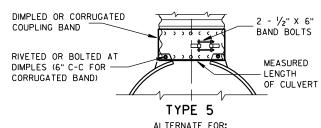
CONNECTION DETAILS 1, 2 OR 5.

ALTERNATE FOR TYPE 1 CONNECTION







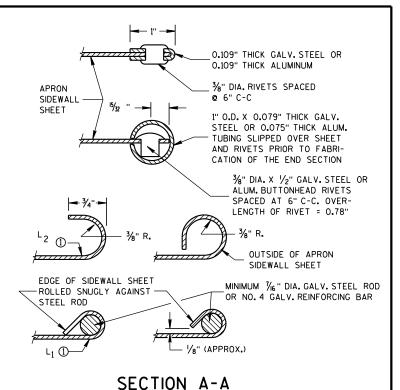


FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5

FOR HELICALLY CORRUGATED PIPE USE ENDWALL

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



GENERAL NOTES

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

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA, GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES. THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

(1) FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

11/30/94 /S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER

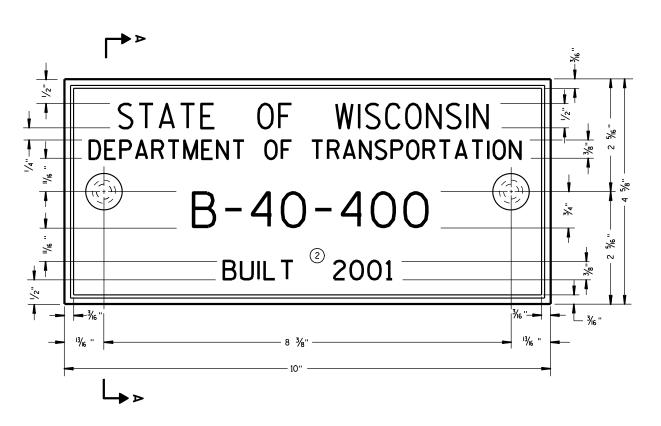
END CORNER

1/16" DIA. HOLES FOR

BOLTS OR RIVETS -

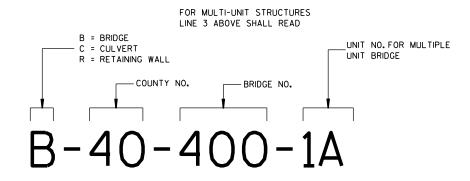
12" C-C MAX. SPACING





TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



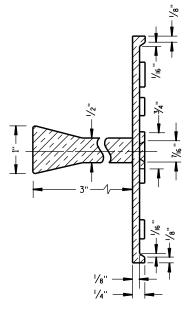
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

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.

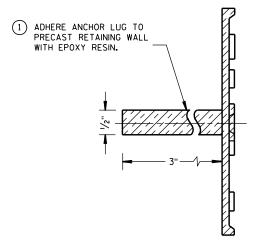
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- (2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

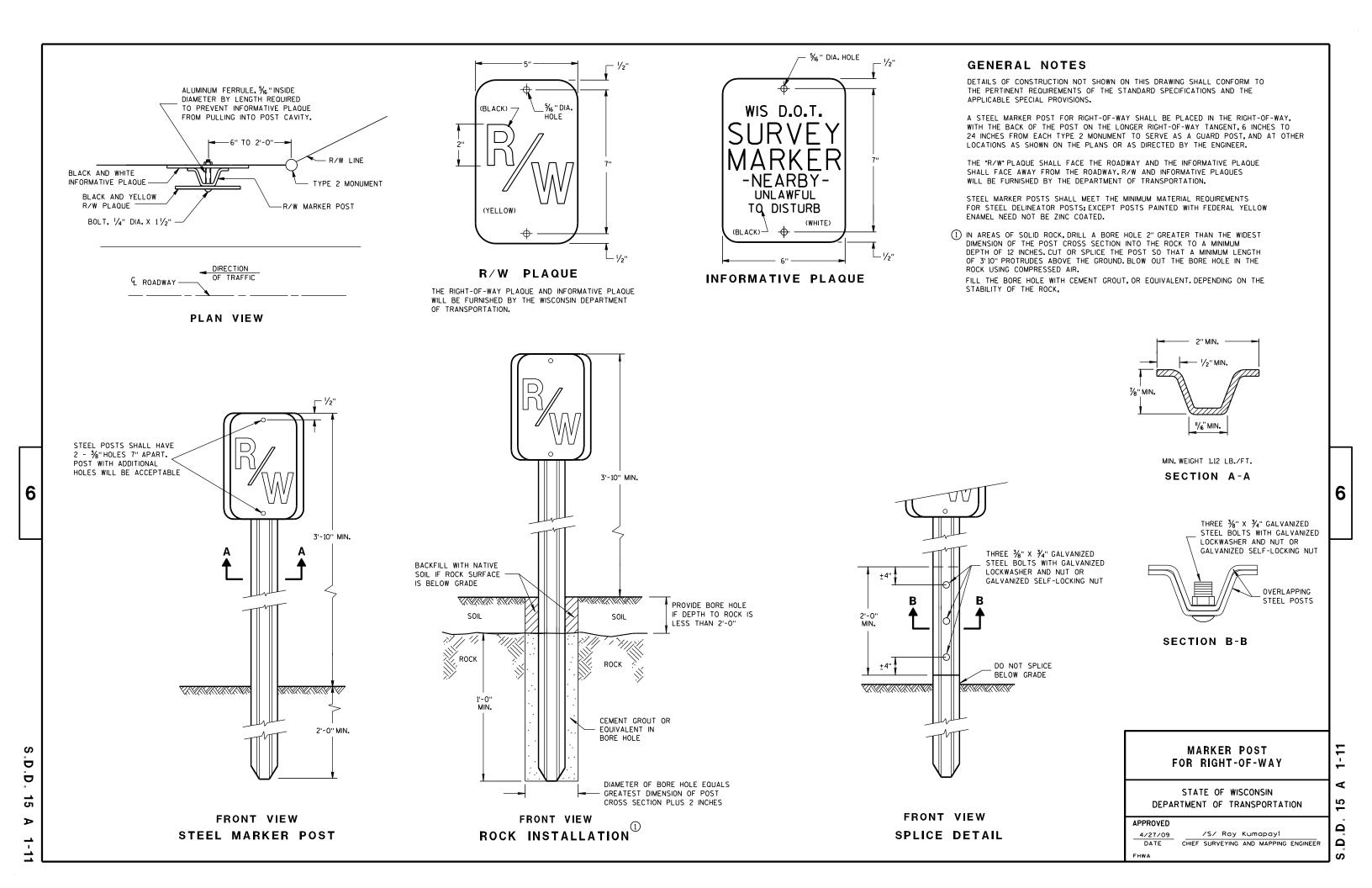
(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

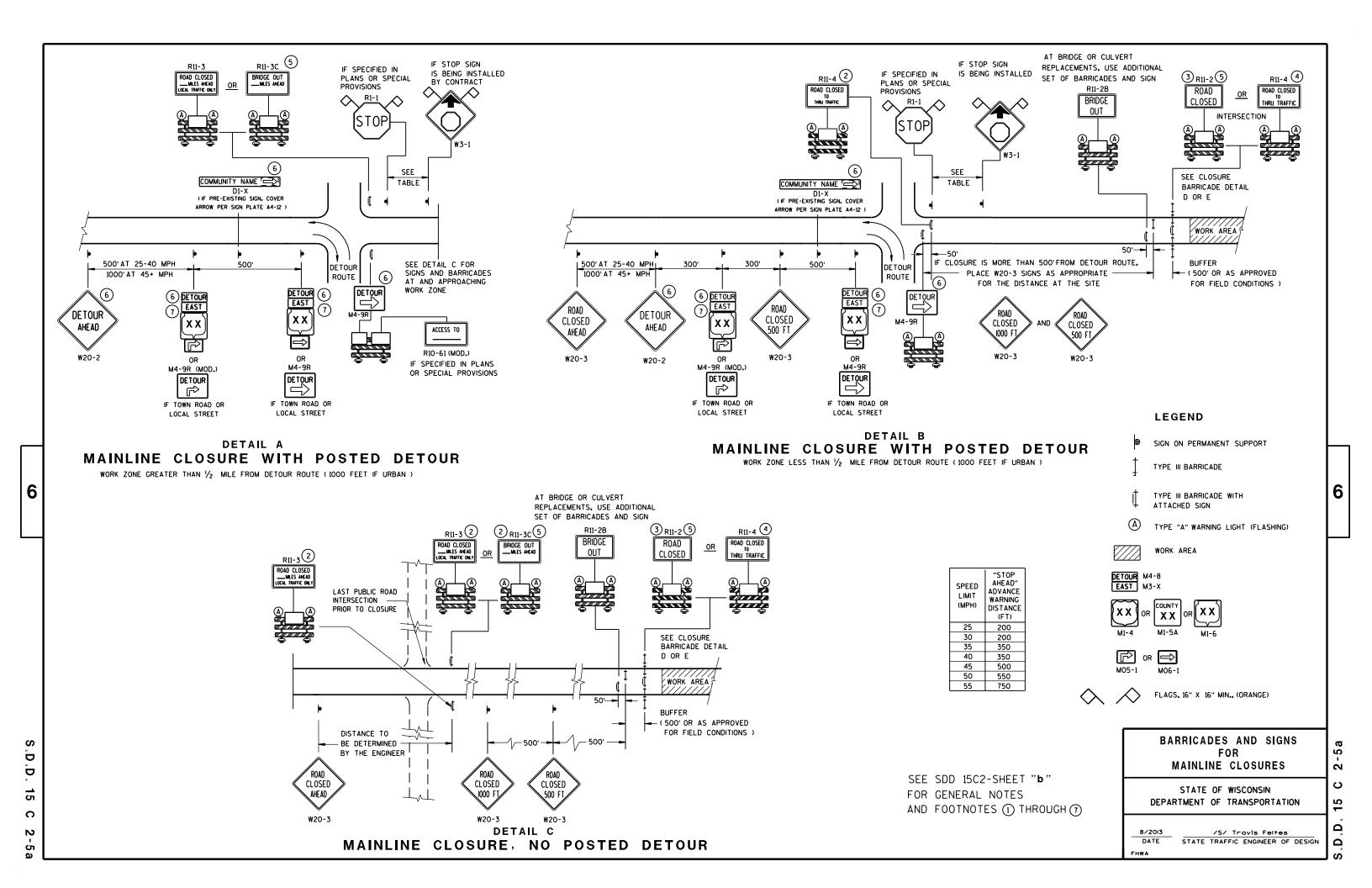
APPROVED

 D. 12 A 3-10





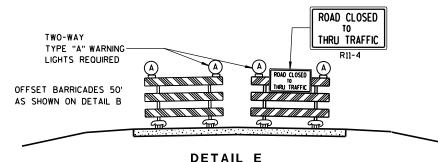




BRIDGE ROAD 1)TWO-WAY **CLOSED** TYPE "A" WARNING LIGHTS REQUIRED OUTSIDE EDGE OF SHOULDER OUTSIDE EDGE OF SHOULDER OR FACE OF CURB OR FACE OF CURB **DETAIL D**

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

R11-2 SHALL BE 48" X 30". R11-3, R11-4 AND R10-61 SHALL BE 60" X 30". M4-9 SHALL BE 30" X 24". M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.) M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)

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

- (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
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.
- FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.
- FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON 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

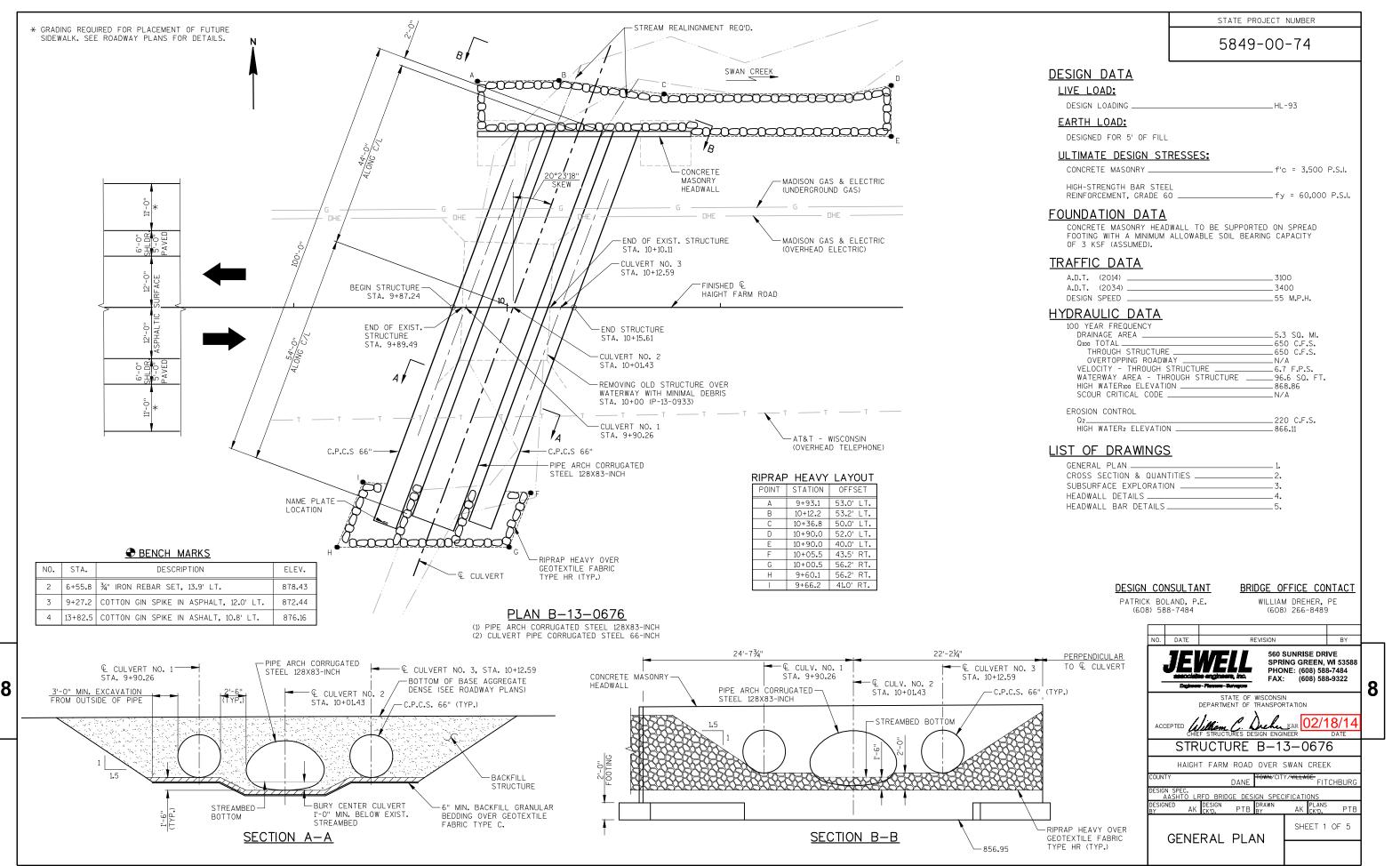
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN

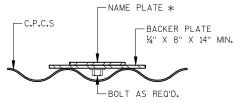
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5849-00-74



NOTE: * NAME PLATE SHALL BE RIGIDLY ATTACHED TO BACKER PLATE.

BACKER PLATE SHALL BE ATTACHED TO C.P.C.S BY TACK WELDING OR OTHER MEANS APPROVED BY ENGINEER.

NAME PLATE DETAIL

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

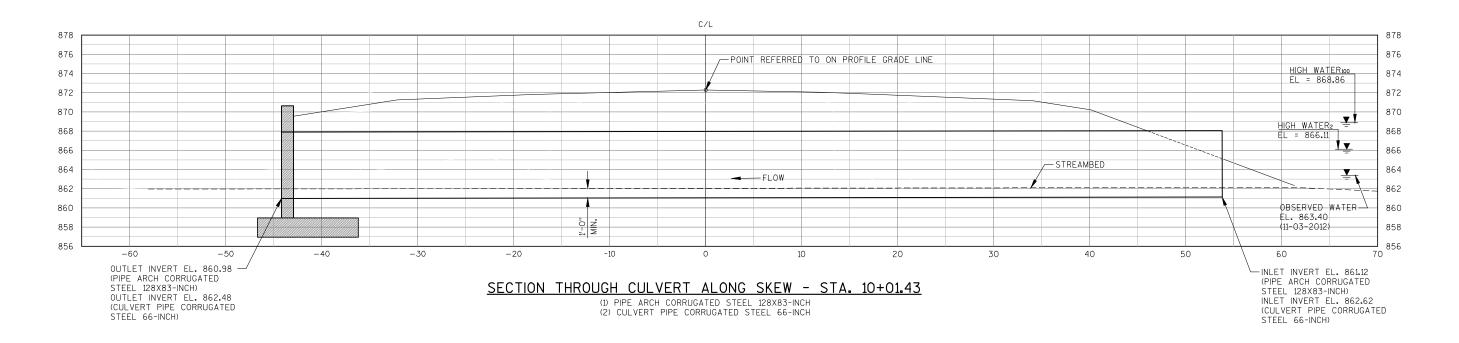
BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES. ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE TO THE ELEVATION 2' ABOVE THE TOP OF PIPE WITHIN THE LENGTH OF THE CULVERT.

THE GRADATION OF THE BACKFILL STRUCTURE SHALL MEET THE REQUIREMENTS OF SECTION 209.2.2 OF THE STANDARD SPECIFICATIONS FOR GRADE 1 MATERIAL.

THE EXISTING STRUCTURE (P-13-0933) IS A SINGLE-SPAN STEEL GIRDER STRUCTURE SUPPORTED ON FULL RETAINING CONCRETE ABUTMENTS. THE STRUCTURE IS 27.8' WIDE BY 22.6' LONG AND SHALL BE REMOVED.

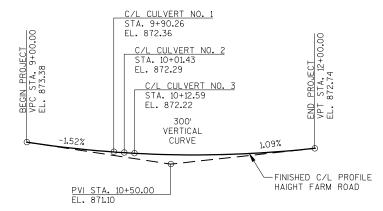
ALL STATIONS AND ELEVATIONS SHOWN ARE IN FEET.



TOTAL ESTIMATED QUANTITIES

	ITEM NUMBER	ITEM DESCRIPTION	UNIT	TOTALS
	203.0600.5	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA. 10+00	LS	1
	206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-13-0676	LS	1
	209.0100	BACKFILL GRANULAR	CY	70
	210.0100	BACKFILL STRUCTURE	CY	1270
	504.0900	CONCRETE MASONRY ENDWALLS	CY	42
	505.0410	BAR STEEL REINFORCEMENT HS CULVERTS	LB	3950
	505.0610	BAR STEEL REINFORCEMENT HS COATED CULVERTS	LB	520
	606.0300	RIPRAP HEAVY	CY	105
	645.0105	GEOTEXTILE FABRIC TYPE C	SY	350
	645.0120	GEOTEXTILE FABRIC TYPE HR	SY	210
1	SPV.0090.01	PIPE ARCH CORRUGATED STEEL 128X83-INCH	LF	100
•	SPV.0090.02	CULVERT PIPE CORRUGATED STEEL 66-INCH	LF	200

♠ ¾" ¢ X 6" GALV. ANCHOR BOLTS REQ'D. AT CONCRETE HEADWALL. COST INCLUDED IN BID ITEMS SPV.0090.01 AND SPV.0090.02. ESTIMATE 18 ANCHOR BOLTS REQ'D. AT EACH OUTER PIPE AND 28 ANCHOR BOLTS REQ'D. AT CENTER PIPE FOR A TOTAL OF 64 ANCHOR BOLTS REQ'D.



PROFILE GRADE LINE - HAIGHT FARM ROAD

NO. DATE REVISION BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-13-0676

DRAWN AK PLANS
BY

CROSS SECTION & SHEET 2 OF 5

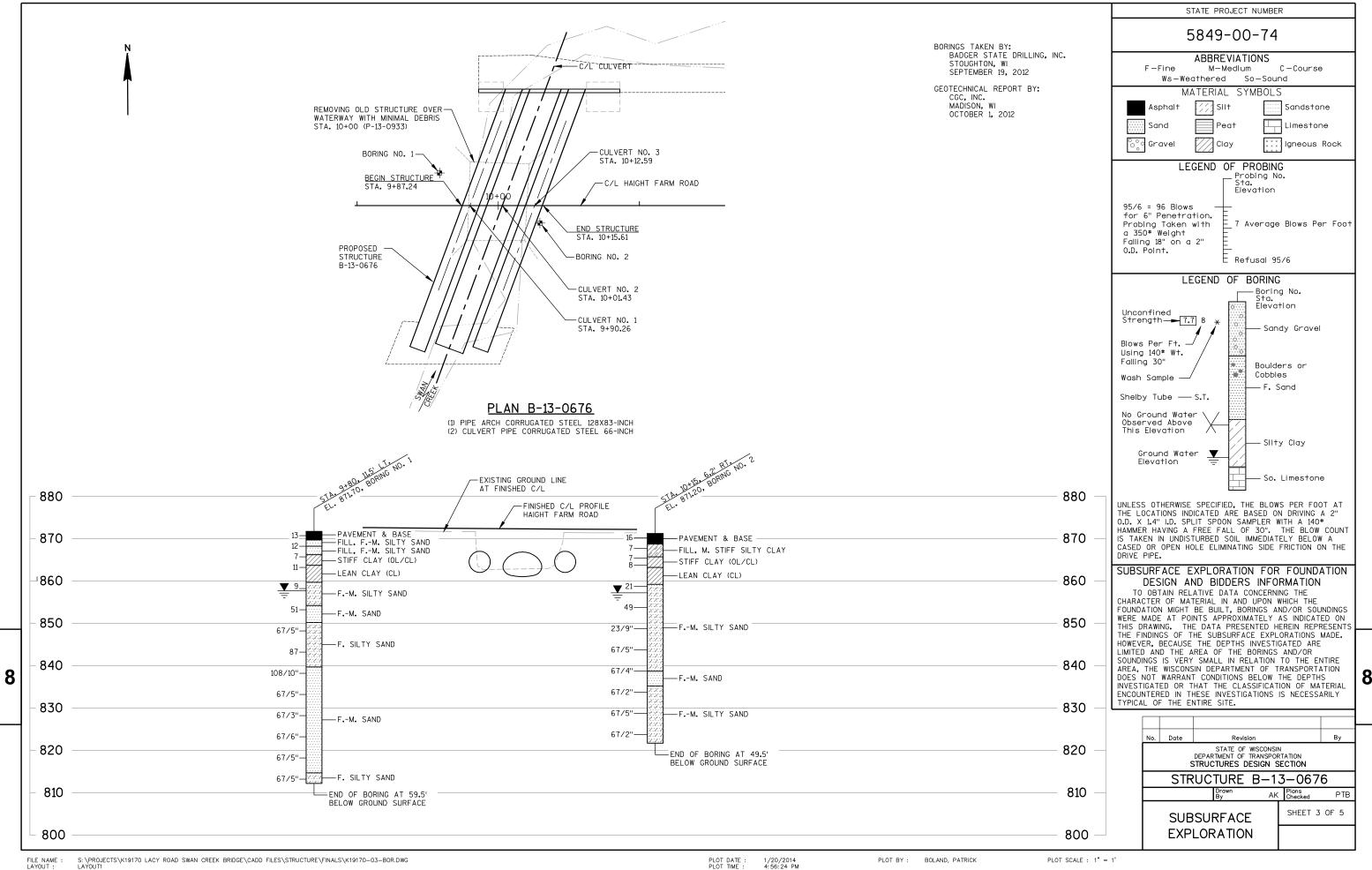
QUANTITIES

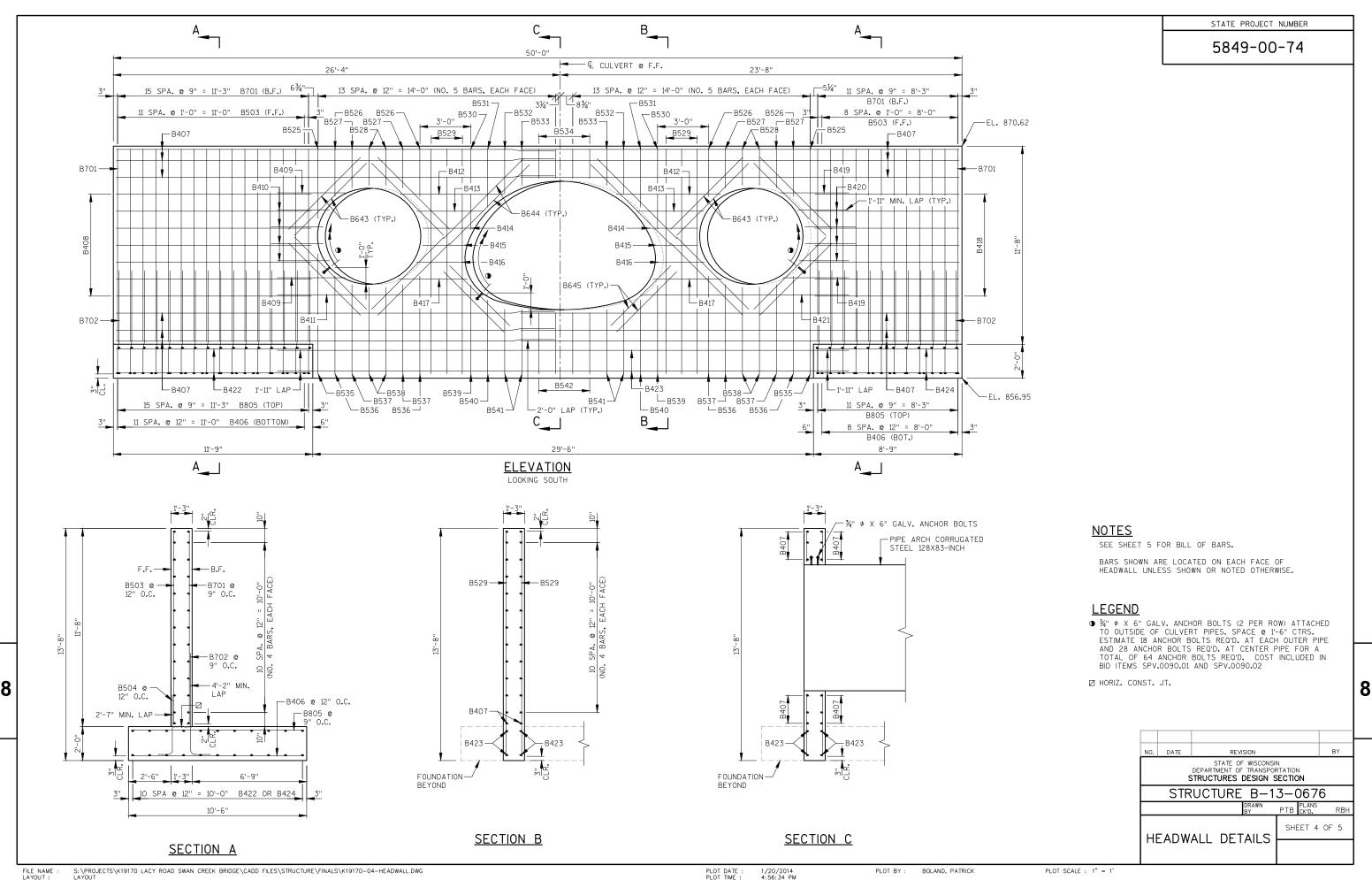
FILE NAME + S-\DDO

S:\PROJECTS\K19170 LACY ROAD SWAN CREEK BRIDGE\CADD FILES\STRUCTURE\FINALS\K19170-02-QNT.DWG LAYOUT

PLOT DATE: 1/20, PLOT TIME: 4:56: PLOT BY : BOLAND, PATRICK

PLOT SCALE : 1" = 1'





STATE PROJECT NUMBER

5849-00-74

BILL OF BARS HEADWALL

520 LB (COATED) 3.950 (UNCOATED)

<u>HEAD'</u>	<u>WALL</u>				<u>3,950 (UNCOATED)</u>
BAR MARK	NO. REQ'D.	LENGTH	BENT	COAT	LOCATION
B701	28	11-4			WALL - VERT B.F.
B702	28	7-1	X	Х	WALL - VERT B.F. AT FOOTING
B503	21	11-4			WALL - VERT F.F.
B504	21	5-3	X	X	WALL - VERT F.F. AT FOOTING
B805	28	10-2			FOOTING - HORIZ TOP
B406	21	10-2			FOOTING - HORIZ BOTTOM
B407	24	26-10			WALL - HORIZ F.F. & B.F.
B408	14	11-6			WALL - HORIZ F.F. & B.F.
B409	4	4-0			WALL - HORIZ F.F. & B.F.
B410	8	3-0			WALL - HORIZ F.F. & B.F.
B411	2	12-6			WALL - HORIZ, - F.F. & B.F.
B412	4	6-2			WALL - HORIZ, - F.F. & B.F.
B413	4	4-0			WALL - HORIZ, - F.F. & B.F.
B414	4	2-10			WALL - HORIZ F.F. & B.F.
B415	4	2-5			WALL - HORIZ, - F.F. & B.F.
B416	4	2-8			WALL - HORIZ F.F. & B.F.
B417	4	4-0			WALL - HORIZ, - F.F. & B.F.
B418	14	8-6			WALL - HORIZ, - F.F. & B.F.
B419	4	4-2			WALL - HORIZ, - F.F. & B.F.
B420	8	3-0			WALL - HORIZ, - F.F. & B.F.
B421	2	12-4			WALL - HORIZ, - F.F. & B.F.
B422	22	11-5			FOOTING - TRANS, - TOP & BOTTOM
B423	4	33-8			WALL - HORIZ, - F.F. & B.F. AT BOTTOM
B424	22	8-5			FOOTING _ TRANS, - TOP & BOTTOM
B525	4	4-1			WALL - VERT F.F. & B.F.
B526	8	2-9			WALL - VERT F.F. & B.F.
B527	8	2-3			WALL - VERT F.F. & B.F.
B528	8	2-1			WALL - VERT F.F. & B.F.
B529	12	13-3			WALL - VERT F.F. & B.F.
B530	4	4-9			WALL - VERT F.F. & B.F.
B531	4	3-5			WALL - VERT F.F. & B.F.
B532	4	2-8			WALL - VERT F.F. & B.F.
B533	4	2-2			WALL - VERT F.F. & B.F.
B534	8	1-8			WALL - VERT F.F. & B.F.
B535	4	7-0			WALL - VERT F.F. & B.F.
B536	8	5-9			WALL - VERT F.F. & B.F.
B537	8	5-3			WALL - VERT F.F. & B.F.
B538	8	5-1			WALL - VERT F.F. & B.F.
B539	4	5-3			WALL - VERT F.F. & B.F.
B540	4	4-4			WALL - VERT F.F. & B.F.
B541	8	3-9			WALL - VERT F.F. & B.F.
B542	8	3-7			WALL - VERT F.F. & B.F.
B643	32	6-0			WALL - AT CULVERT - F.F. & B.F.
B644	8	6-8			WALL - AT CULVERT - F.F. & B.F.
B645	8	5-0			WALL - AT CULVERT - F.F. & B.F.

NOTES: THE FIRST DIGIT OF A BAR MARK SIGNIFIES THE BAR SIZE. DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

MARK "L" B702 1-2 B504 0-10

B702. B504

8

REVISION STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION STRUCTURE B-13-0676 SHEET 5 OF 5 HEADWALL BAR **DETAILS**

8

NO. DATE

EARTHWORK-MAINLINE

	AREA (\$F	·)				INCREME	NTAL VOL (CY)							CUMMULAT	IVE VOLUM	IE (CY)					
_						•	SALVAGED/			REDUCED							REDUCED				
		SALVAGED/					UNUSABLE			MARSH IN FILL	FILL	SELECT CRUSHED		CUT			MARSH IN FILL	FILL	SELECT CRUSHED		MASS
		UNU\$ABLE				CUT	PAV'T MATERIAL	FILL		(0.6)		MATERIAL		1.00		MAR\$H	(0.6)	(25%)	MATERIAL		ORDINATE
STATION	CUT	PAV'T MATERIAL	FILL	MARSHEX	EBS	NOTE 1	NOTE 2	NOTE 3	MARSHEX	NOTE 4	(25%)	(1.5)	EBS	NOTE 1	FILL	EX	NOTE 4	NOTE 5	(1.5)	EBS	NOTE 6
9+00	28	0	0	0	Ō	0	0	0	0	0	0	0	0	0	0	0	Ü	0	0	0	0
9+50	26	0	161	0	0	50	0	149	0	0	18 6	0	0	50	149	0	0	186	O	0	-136
9+89	26	0	161	٥	٥	38	0	232	0	0	290	0	0	88	381	0	٥	476	0	0	-388
9+89	0	0	161	0	Q	0	0	0	0	0	0	0	0	88	381	0	Q	476	0	0	-388
10+00	0	0	178	0	Ō	0	0	69	0	0	87	0	0	88	450	0	Ü	563	٥	0	-475
10+10	0	0	196	0	0	0	0	69	0	0	87	0	0	88	519	0	0	650	0	0	-562
10+10	14	0	196	٥	٥	٥	0	0	0	0	0	0	0	88	519	0	٥	650	0	0	-562
10+50	14	0	196	0	0	21	0	291	0	0	364	0	0	109	810	0	0	1014	0	0	-905
11+00	23	0	167	0	0	34	0	336	0	0	420	0	0	143	1146	0	0	1434	0	0	-1291
11+50	30	0	137	0	Ō	49	0	282	0	0	353	0	0	192	1428	0	Ō	1786	0	0	-1594
12+00	28	0	0	0	0	54	0	127	0	0	159	0	0	246	1555	0	0	1945	0	0	-1699
						•															
				CC	DLUMN TOTALS	5 = 246	0	1555	0	0	1945	0	0								
				(P.	E.), STA, 9+36,	LT. 24															
						270															

NOTES: 1 - CUT

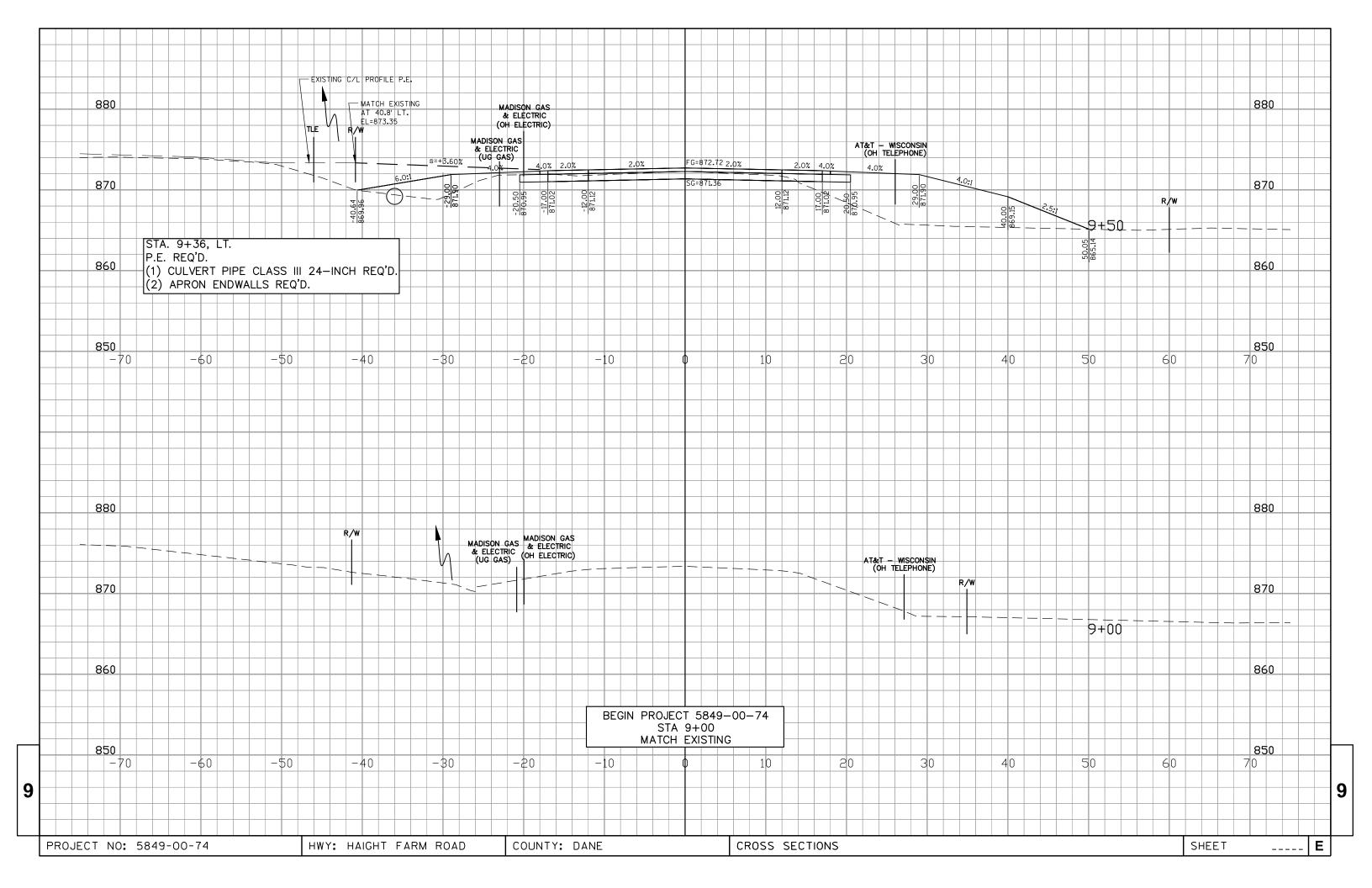
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL
3 - FILL
4 - REDUCED MARSH IN FILL
5 - FILL (25%)
6 - MASS ORDINATE

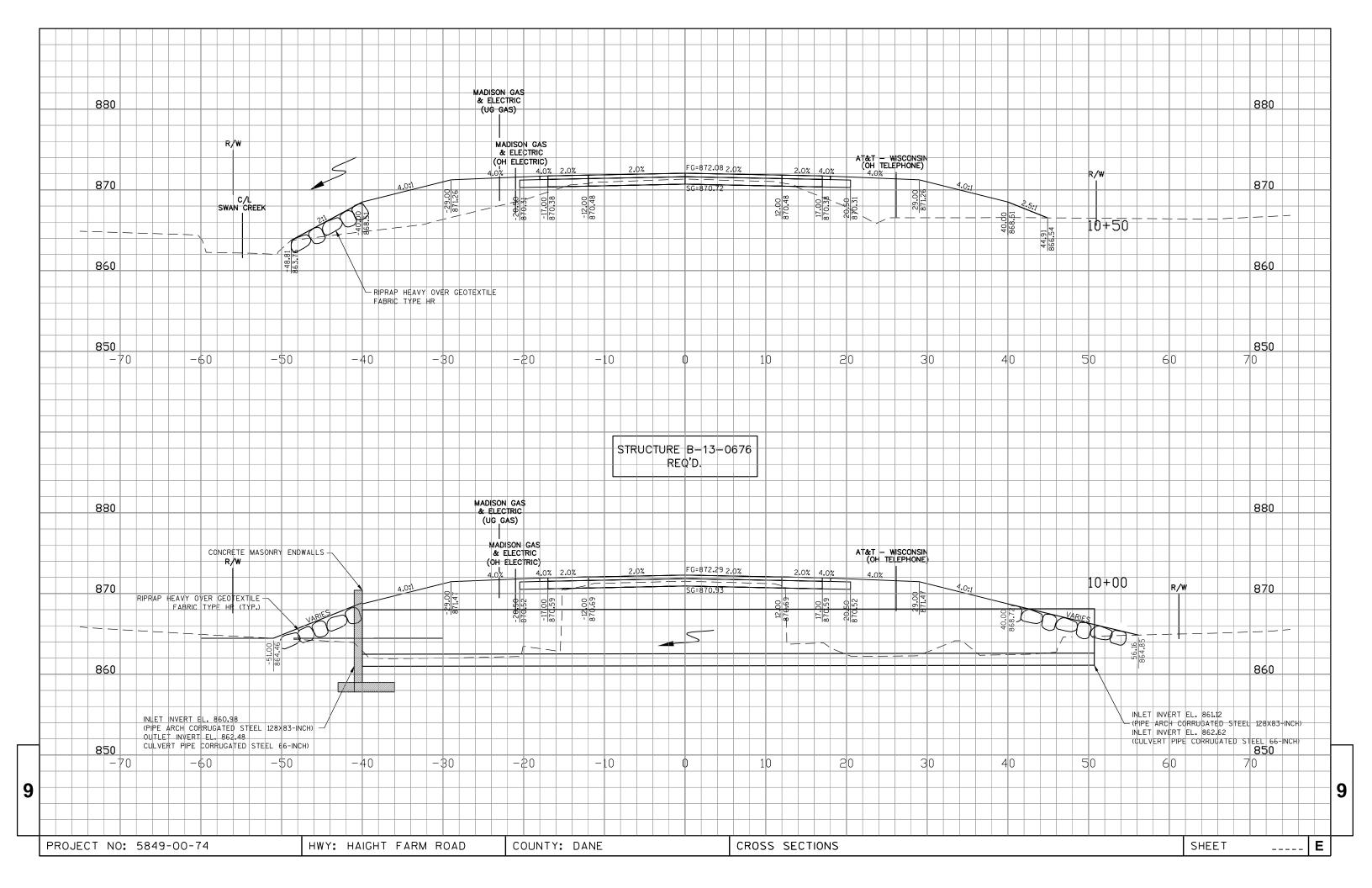
CUT INCLUDES SALVAGED/UNUSABLE MATERIAL THIS DOES NOT SHOW UP IN CROSS SECTIONS DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME REDUCED MARSH THAT CAN BE USED IN FILL FILL 25%: (FILL -REDUCED MARSH IN FILL)*1.25 (CUT - FILL (25%))

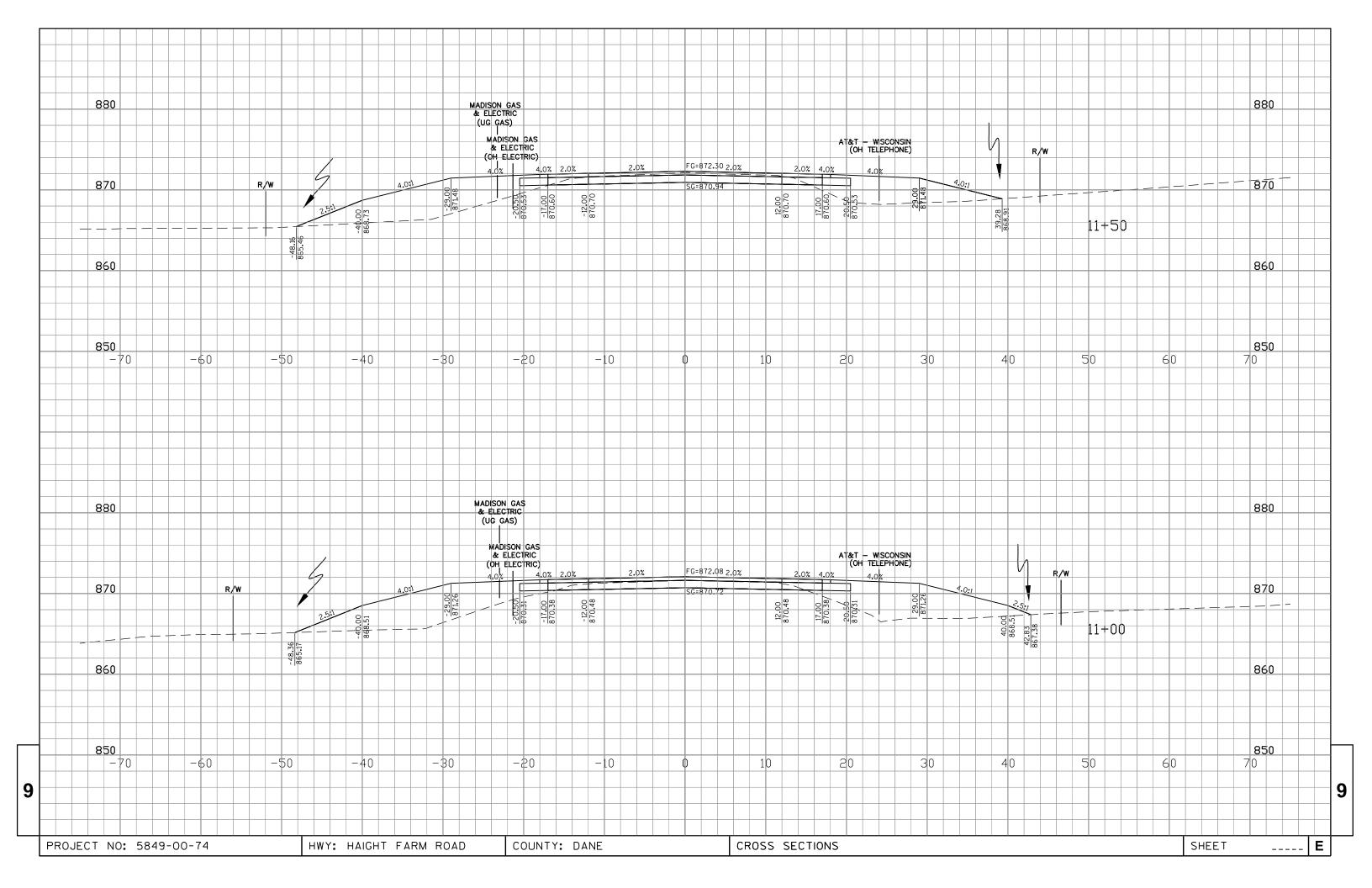
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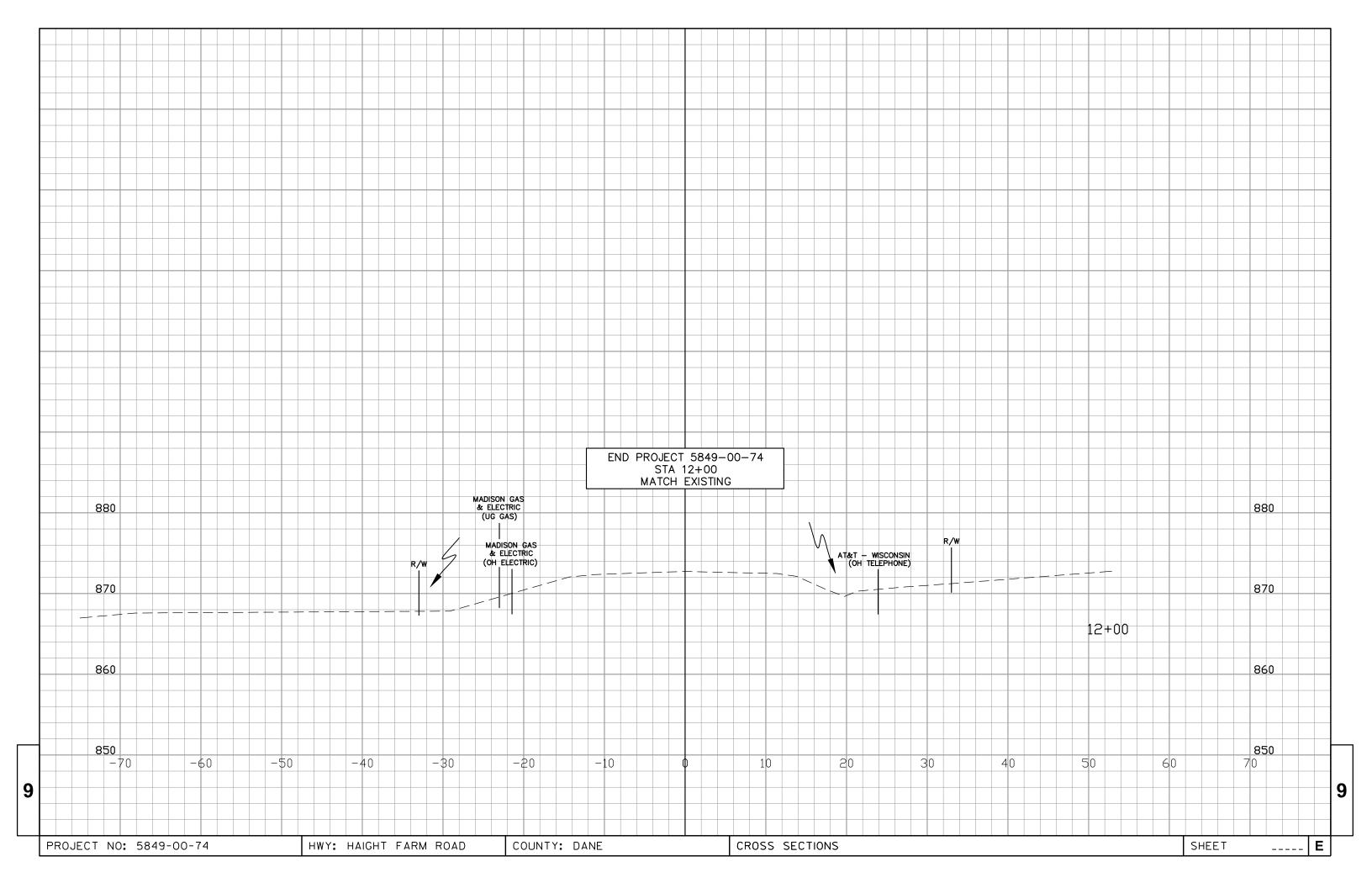
COUNTY: DANE HWY: HAIGHT FARM ROAD SHEET PROJECT NO: 5849-00-74 EARTHWORK

PLOT BY: STRINE, THERESA











Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov