4

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AUG 2015

ORDER OF SHEETS

Section No. 1 Title Section No. 2 Typical Sections and Details

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

Section No. 5 Plan and Profile (Includes Erosion Control)

Section No. 6 Standard Detail Drawings

Section No. 9 Computer Earthwork Data

Section No. 9 Cross Sections

TOTAL SHEETS = 34

DESIGN DESIGNATION

STH 42/57 A.A.D.T. (2035) = 14.000 D.H.V. (2035) = 1.740 = 59/41 T. (2035) = 12.4% DESIGN SPEED = 50 MPH ESALS

CONVENTIONAL SYMBOLS

WOODED OR SHRUB AREA

PROFILE CORPORATE LIMITS PROPERTY LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT REFERENCE LINE EXISTING CUI VERT PROPOSED CULVERT (Box or Pipe) COMBUSTIBLE FLUIDS STORM SEWER TELEPHONE WATER MARSH AREA

GRADE LINE ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) GRADE FLEVATION CULVERT (Profile View) UTILITIES ELECTRIC

SANITARY SEWER UTILITY PEDESTAL POWER POLE ₽ TELEPHONE POLE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

GREEN BAY ROAD CITY OF STURGEON BAY

(MICHIGAN STREET - EGG HARBOR ROAD)

STH 42/57 DOOR COUNTY

4140-20-74

R-25-E

T-28-N END PROJECT STURGEON STA. 1924+50.00 BAY TOWN SEVASTOPOL BEGIN PROJECT STA. 1901+50.00 Y=165267.5966 T-27-N X=500818.1467 TOWN STURGE(LAYOUT SCALE __

R-26-E

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT WISC 2015470 4140-20-74 1

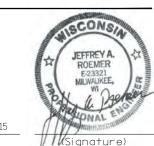
ORIGINAL PLANS PREPARED BY:

exp U.S. Services Inc.

t: +1.414.607.3930 | f: +1.414.607.3931 Milwaukee, WI 53226



• BUILDINGS • EARTH & ENVIRONMENT • ENERGY • *INDUSTRIAL *INFRASTRUCTURE *SUSTAINABILITY *



04/29/2015 (Date)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

REPARED BY Surveyor

C.O. Examiner

General J. Schouez

Ε

TOTAL NET LENGTH OF CENTERLINE = 0.435 MI.

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), DOOR COUNTY, NAD1983 (1991)

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

JOSEPH KASSAB AT&T WISCONSIN - COMMUNICATION LINE 221 WEST WASHINGTON ST APPLETON. WI 54911-4742

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EMAIL: rick.vincent@nsight.com

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P.O. BOX 27

STURGEON BAY, WI 54235-2039 PHONE: (920) 746-2822 EMAIL: jstawicki@wppienergy.org JIM STAWICKI STURGEON BAY UTILITIES - SEWER 230 E VINE STREET P.O. BOX 27 STURGEON BAY, WI 54235-2039 PHONE: (920) 746-2822 EMAIL: jstawicki@wppienergy.org

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OTHER CONTACTS

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PHONE: (920) 492-4165
EMAIL: jeremy.ashauer@dot.wi.gov

JEFFREY ROEMER, P.E. EXP US SERVICES INC. 241 NORTH BROADWAY, SUITE 203 MILWAUKEE, WI 53202 PHONE: (414) 221-0088 EXT 3132 EMAIL: jeff.roemer@exp.com GENERAL NOTES

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

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND ALL UTILITIES IN THE VICINITY OF THE PROJECT TO LOCATE THEIR FACILITIES AT LEAST THREE WORKING DAYS PRIOR TO BEGINNING WORK.

THE LOCATIONS OF EROSION CONTROL ITEMS SHALL BE DETERMINED BY THE ENGINEER, ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURES NO LONGER NECESSARY.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITION AS DIRECTED BY THE ENGINEER.

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS INDICATED FOR REMOVAL BY THE ENGINEER.

LANDSCAPE ALL TOPSOILED AREAS AS THE PLANS SHOW OR THE ENGINEER DIRECTS WITHIN FIVE CALENDAR DAYS AFTER PLACEMENT OF TOPSOIL.

ALL TYPES OF ASPHALTIC SURFACE SHALL BE CONSTRUCTED WITH THE FOLLOWING LAYERS AND GRADATIONS:

TOTAL PAVEMENT LAYER THICKNESS	LAYER	NOMINAL MINIMUM SIZE GRADATION	ASPHALTIC MATERIAL
0'-5"	ONE 5" LAYER	19.0 mm	N/A



Dial or (800) 242-8511

www.DiggersHotline.com

PROJECT NO: 4140-20-74

HWY: STH 42/57

COU

COUNTY: DOOR

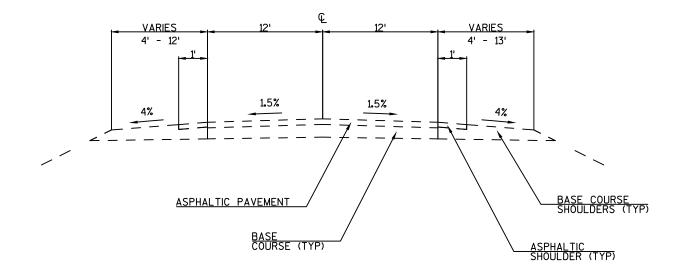
GENERAL NOTES

PLOT BY : AARON SCHRAMM

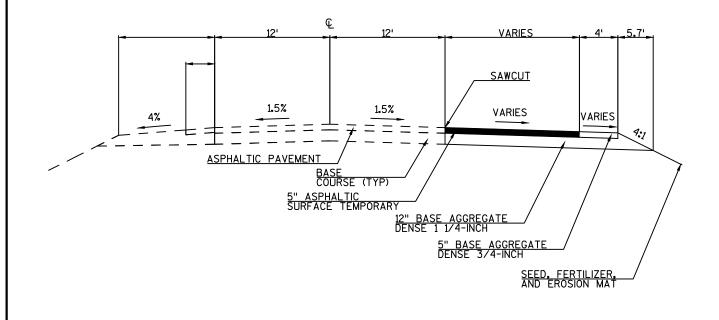
PLOT NAME : _____

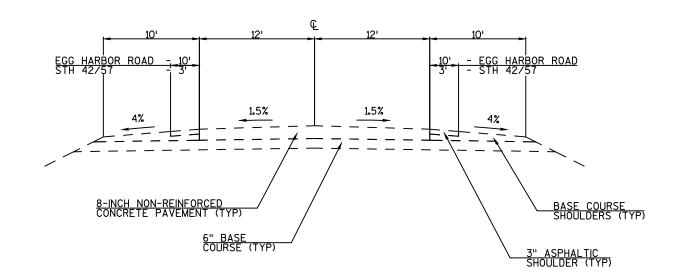
SHEET

E

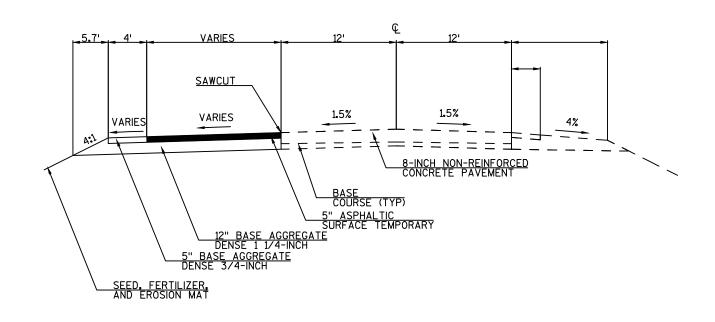


EXISTING TYPICAL SECTION - OLD HWY ROAD STA. 1904+61 - STA. 1921+14





EXISTING TYPICAL SECTION
STA. 1901+50 - STA. 1904+61 EGG HARBOR ROAD STA. 1923+00 - STA. 1924+50 STH 42/57



TYPICAL FINISHED SECTION - WIDENING STA. 1901+50 - STA. 1904+61 EGG HARBOR ROAD STA. 1923+00 - STA. 1924+50 STH 42/57

PROJECT NO: 4140-20-74

HWY:STH 42/57

TYPICAL FINISHED SECTION - OLD HWY ROAD

STA. 1920+00 - STA. 1921+14

COUNTY: DOOR

TYPICAL EXISTING AND FINISHED SECTIONS

SHEET

VARIES VARIES SUPER ELEVATED SECTION CLEAR ZONE 16' CLEAR ZONE 16' SHOULDER SHOULDER 4% 2% 4% 4:1 NOR. IN CUT 2.5:1 MAX. 4:1 NOR. 2% SUBGRADE 2% SUBGRADE IN FILL 5" ASPHALTIC SURFACE TEMPORARY SEED. FERTILIZER.
AND EROSION MAT TYPICAL FINISHED SECTION - TEMPORARY ROADWAY STA. 1921+14 - STA. 1923+00 COUNTY: DOOR PROJECT NO: 4140-20-74 HWY:STH 42/57 TYPICAL FINISHED SECTIONS SHEET

FILE NAME :F:\DOC_EXP\WIS-00015718-A0\CIVIL\EGG HARBOR BY-PASS\SHEETSPLAN\020301_TS.DWG

PLOT DATE: 4/29/2015 4:31 PM

PLOT BY: AARON SCHRAMM

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

WISDOT/CADDS SHEET 42

*OR AS DIRECTED

BY THE ENGINEER

RUNOFF COEFFICIENT TABLE

						HYDROLOGIC	SOIL GROU	>				
		Д			Е	3		C	,		D	
	SLOPE	RANGE	(PERCENT)	SLOPE F	BLOPE RANGE (PERCENT)		SLOPE RA	ANGE (P	ERCENT) S	LOPE RANGE (PERC		(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		.20 34	.27 .44	.15 .2 .30 .3			19 64	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24	.19 .2 .25 .	2 . 28	26 .33	.20 .23				.25 .32	.30 .40
SIDE SLOPE-			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:			-	-						-		
ASPHALT						.70 – .95						
CONCRETE						.8095						
BRICK						.70 – .80						
DRIVES, WALKS						.75 – .85						
ROOFS						.75 – .95						
GRAVEL ROADS, S	SHOULDE	RS				.4060						

COUNTY: DOOR

TOTAL PROJECT AREA = 2.295 ACRES

PROJECT NO: 4140-20-74

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.789 ACRES

HWY:STH 42/57

PLAN: CONSTRUCTION DETAIL SHEET PLOT NAME : WISDOT/CADDS SHEET 42

ROCK BAGS

ROCK BAGS

END VIEW

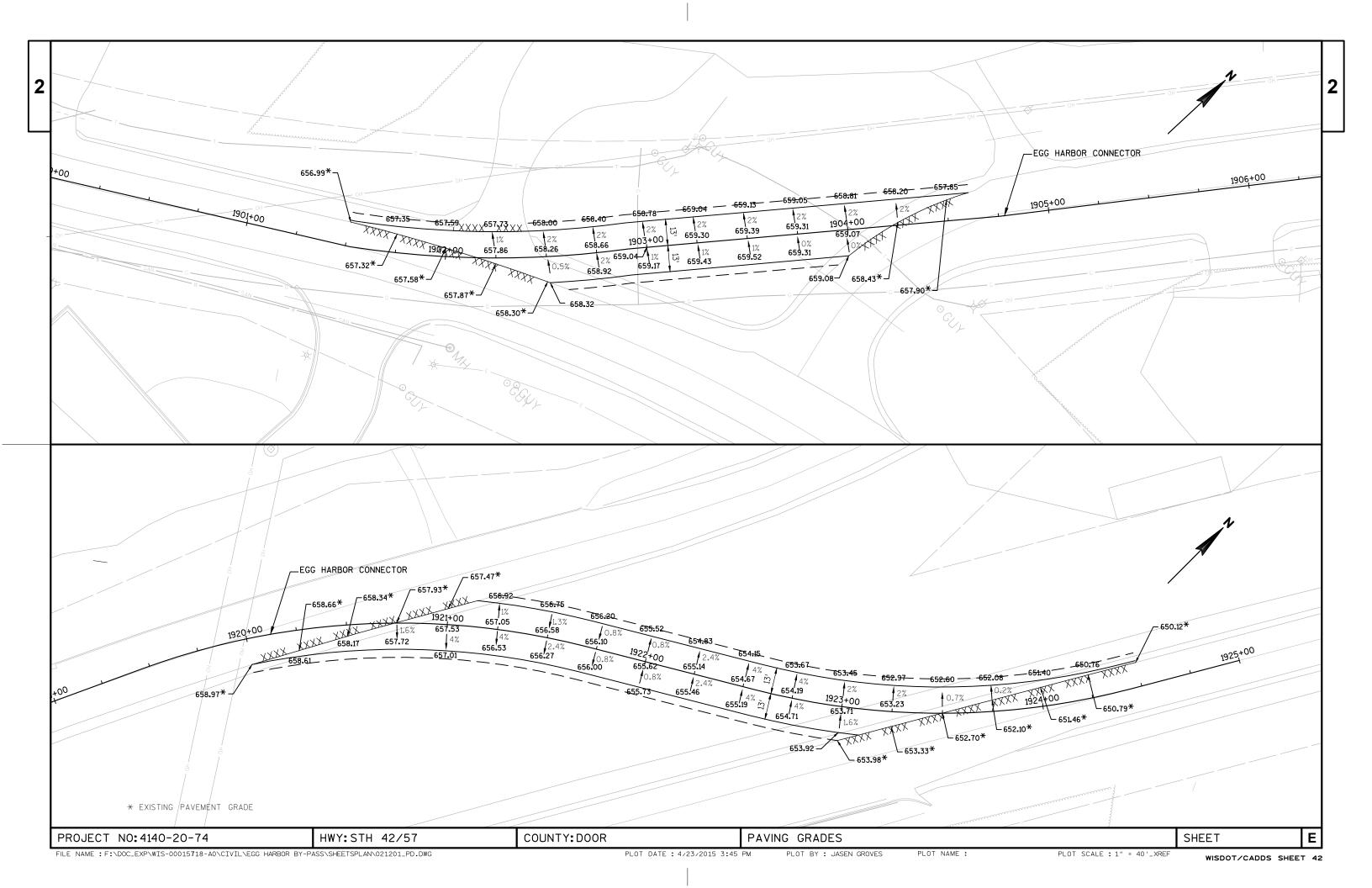
APRON ENDWALL

6" MIN. ★

SIDE VIEW

CULVERT PIPE DITCH CHECK

PLOT DATE: 6/2/2015 8:40 AM PLOT SCALE : ######## PLOT BY: AARON SCHRAMM



GENERAL NOTES FOR TRAFFIC CONTROL

1. THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS OR AS DIRECTED BY THE ENGINEER.

- 2. A FLAGGER MAY BE REQUIRED WHERE CONSTRUCTION VEHICLES ENTER OR LEAVE WORK AREAS IF WARRANTED BY CONDITIONS AS DIRECTED BY THE ENGINEER.
- 3. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
- 4. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
- 5. FOR NIGHTTIME OPERATION ALL DRUMS IN TAPERS SHALL HAVE A TYPE C STEADY BURN WARNING LIGHT.
- 6. ALL TYPE III BARRICADES SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED. EQUIPPED WITH TWO TYPE "A" (LOW INTENSITY FLASHING) LIGHTS.
- 7. CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROWBOARD AND LANE CLOSUREDRUMS FOR A MINIMUM OF 500' IN FRONT OF DRUMS.
- 8. ALL SHORT TERM LANE CLOSURE SIGNS SHALL BE REMOVED OR COVERED AND ALL ARROWBOARDS AND DEVICES REMOVED BEYOND THE CURB WHEN THE WORK IS NOT IN PROGRESS AND THE ROADWAY IS RESTORED TO A SAFE OPERATING CONDITION.
- 9. MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES.

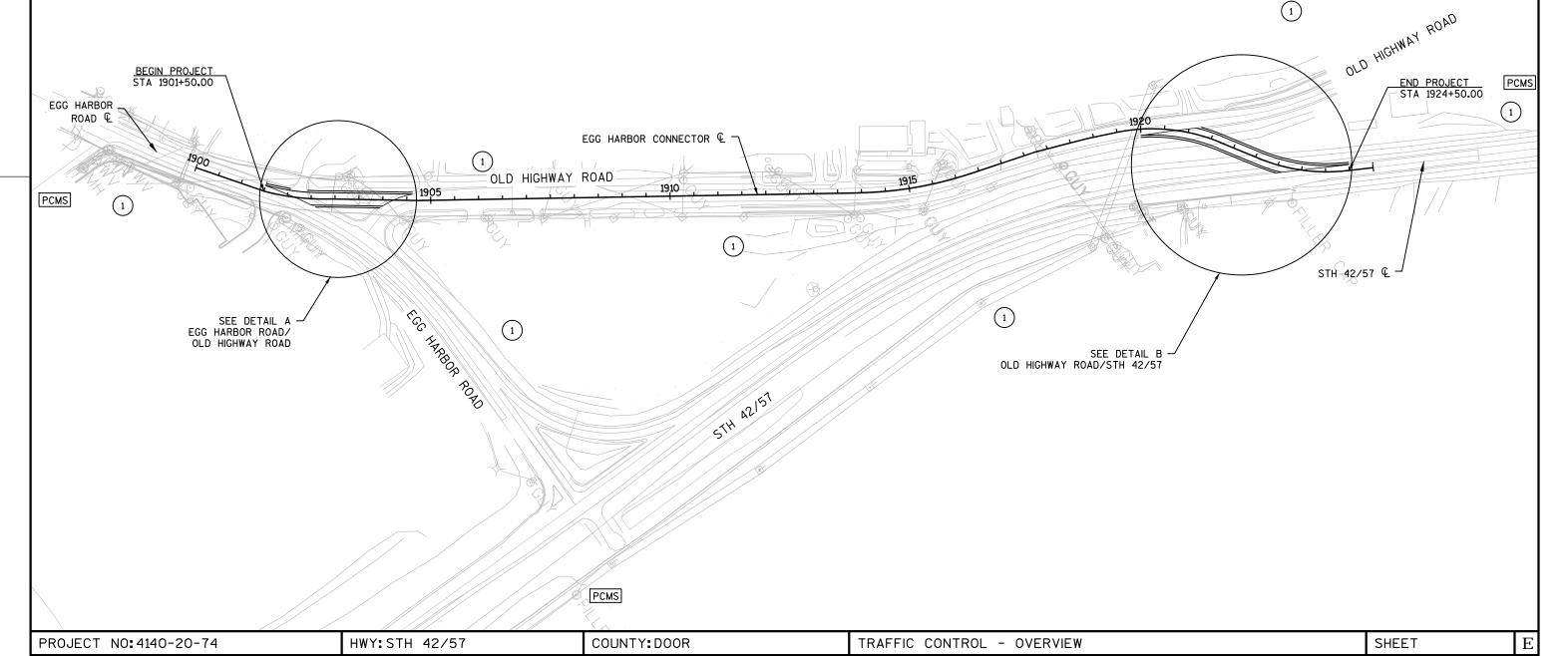
LEGEND

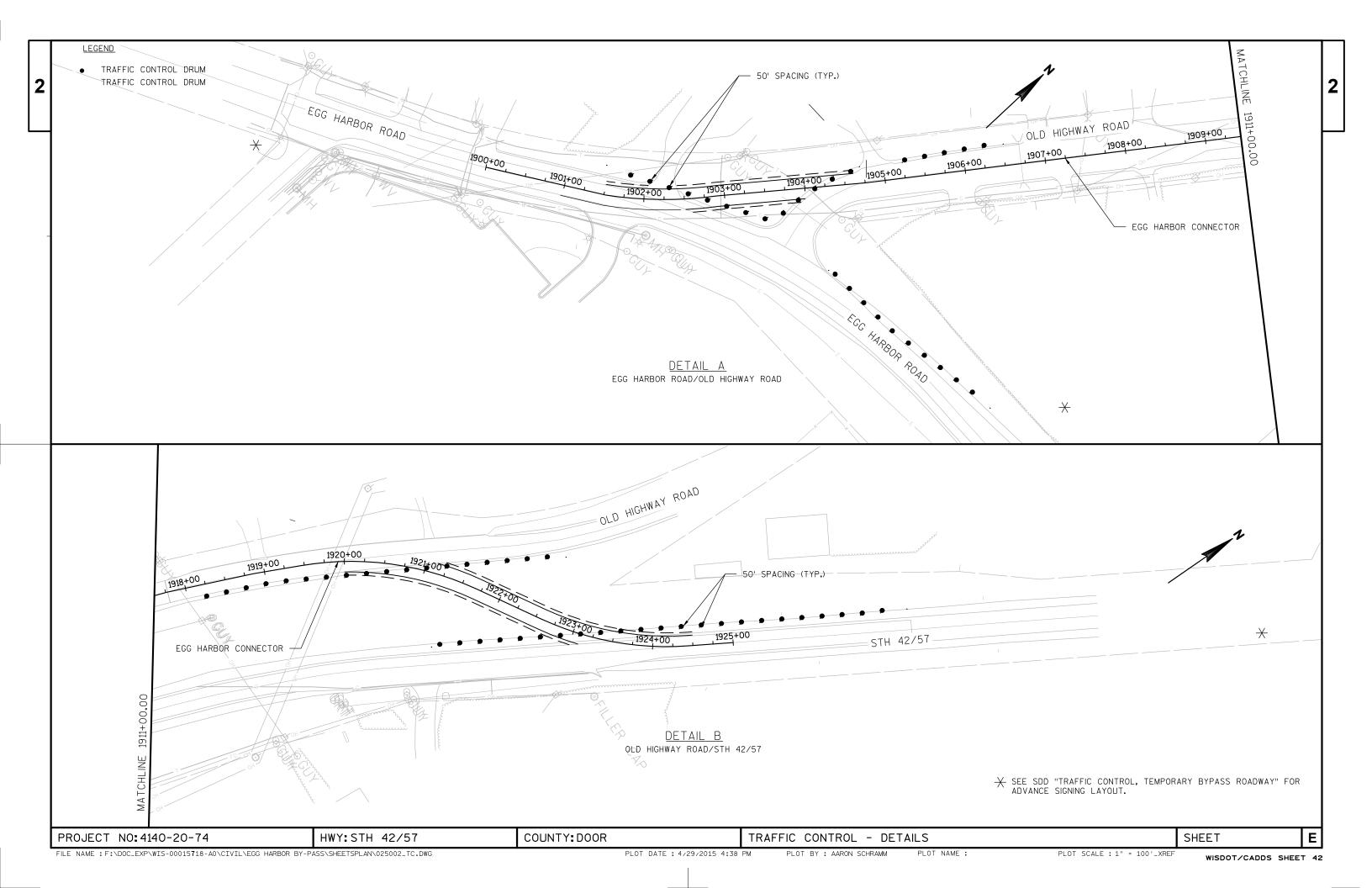
1 FOR PLACEMENT OF TRAFFIC CONTROL DEVICES ALONG SHOULDER, SEE SDD "TRAFFIC CONTROL WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY"

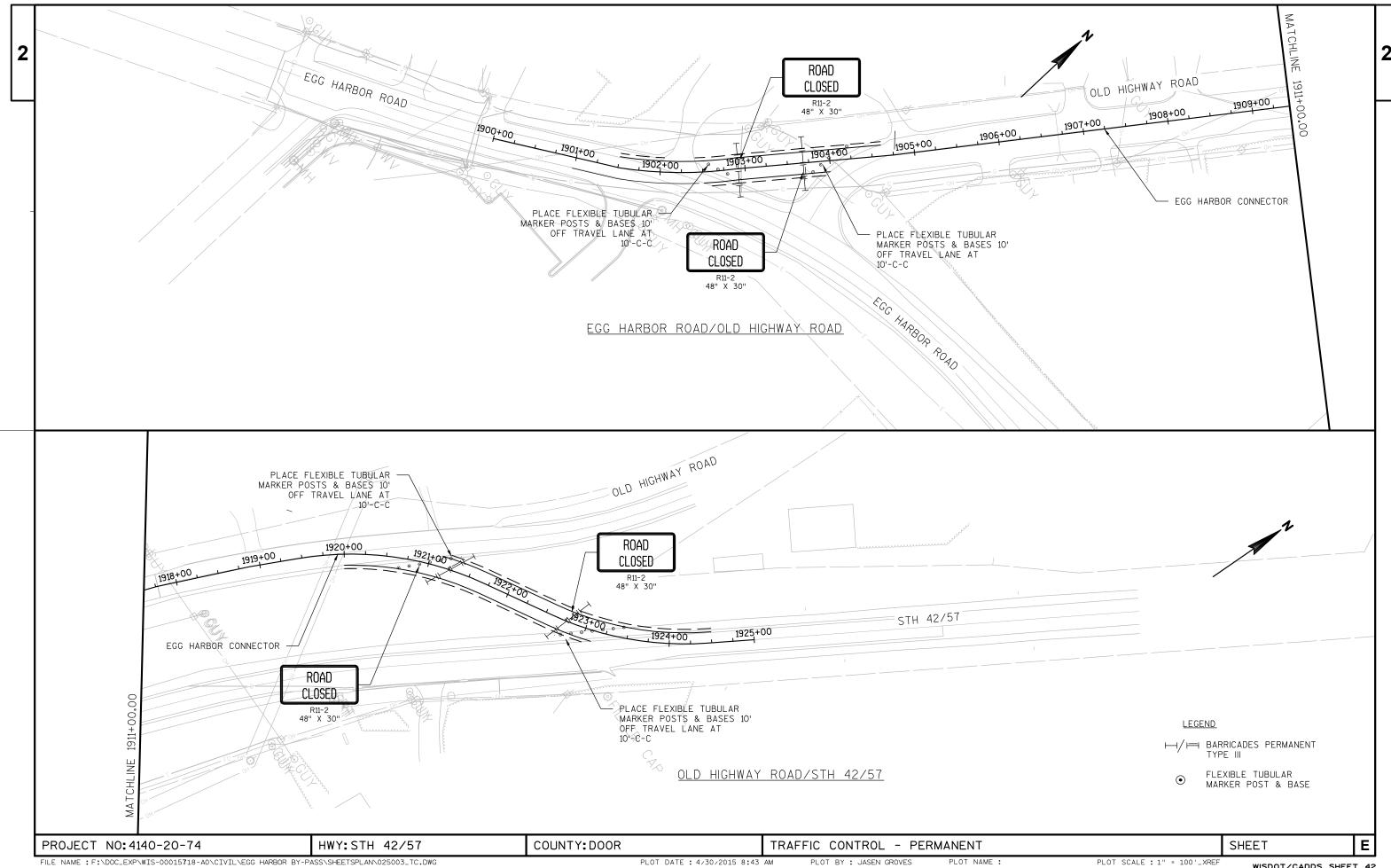
FOR PLACEMENT OF TRAFFIC CONTROL BARRICADES PERMANENT TYPE III, SEE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" DETAIL D.

PCMS PORTABLE CHANGEABLE MESSAGE SIGN

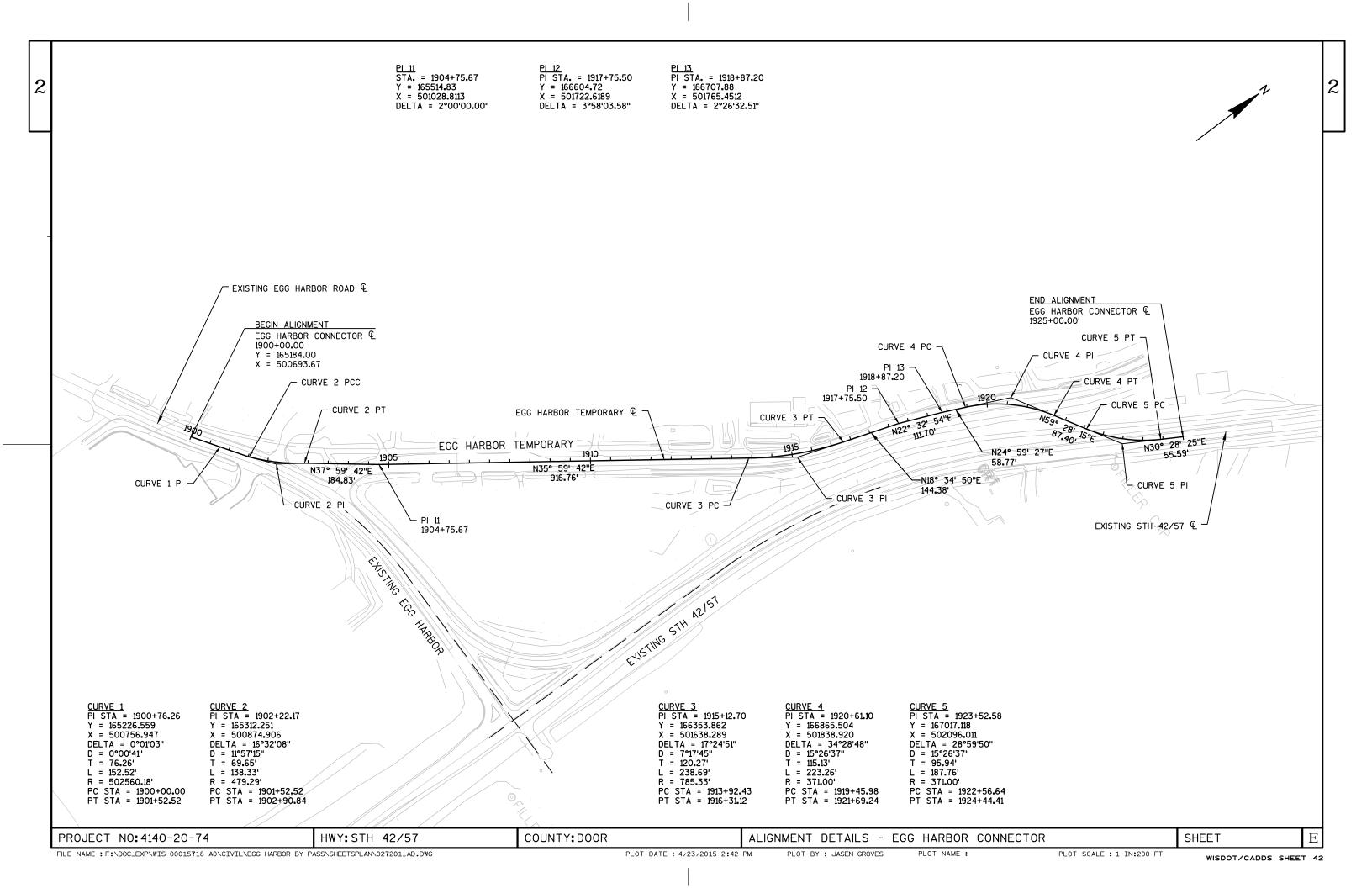








WISDOT/CADDS SHEET 42



DATE 04 LINE	JUN15	EST	IMATE	E OF QUAN	T I T I E S 4140-20-74	
NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY	
0010	205.0100	Excavation Common	CY	594.000	594.000	
0020	211. 0100	Prepare Foundation for Asphaltic Paving (project) 01. 4140-20-74	LS	1. 000	1. 000	
0030	213. 0100	Fi ni shi ng Roadway (project) 01. 4140-20-74	EACH	1. 000	1. 000	
0040	305.0110	Base Aggregate Dense 3/4-Inch	TON	150.000	150.000	
0050	305. 0120	Base Aggregate Dense 1 1/4-Inch	TON	1, 120. 000	1, 120. 000	
0060	305.0500	Shapi ng Shoul ders	STA	14. 000	14.000	
0070	465. 0125	Asphaltic Surface Temporary	TON	415. 000	415. 000	
0800	521. 0115	Culvert Pipe Corrugated Steel 15-Inch	LF	58. 000	58. 000	
0090	521. 0124	Culvert Pipe Corrugated Steel 24-Inch	LF	284. 000	284. 000	
0100	521. 1015	Apron Endwalls for Culvert Pipe Steel 15-Inch	EACH	1. 000	1. 000	
0110	521. 1024	Apron Endwalls for Culvert Pipe Steel	EACH	4. 000	4. 000	
0100	(10 1000	24-Inch	EAGU	1 000	1 000	
0120	619. 1000	Mobilization Water	EACH	1. 000	1.000	
0130	624. 0100	Water	MGAL SY	18.000	18.000	
0140 0150	625. 0100 628. 1905	Topsoil Mobilizations Erosion Control	EACH	1, 750. 000 2. 000	1, 750. 000 2. 000	
	028. 1905	WODITIZATIONS ENOSION CONTROL	LACII	2.000	2.000	
0160	628. 1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0170	628. 2002	Erosion Mat Class I Type A	SY	1, 750. 000	1, 750. 000	
0180	628. 7504	Temporary Ditch Checks	LF	135.000	135.000	
0190	628. 7555	Culvert Pipe Checks	EACH	40.000	40. 000	
0200	629. 0210	Fertilizer Type B	CWT	1. 000	1. 000	
0210	630. 0130	Seeding Mixture No. 30	LB	35. 000	35.000	
0220	630. 0200	Seeding Temporary	LB	55.000	55.000	
0230	643. 0100	Traffic Control (project) 01. 4140-20-74	EACH	1. 000	1. 000	
0240	643. 0300	Traffic Control Drums	DAY	1, 400. 000	1, 400. 000	
0250	643. 0453	Traffic Control Barricades Permanent Type III	EACH	16. 000	16. 000	
0260	643. 0500	Traffic Control Flexible Tubular Marker	EACH	25. 000	25. 000	
0070	(40.0406	Posts	EAGU	25 222	05.000	
0270	643. 0600	Traffic Control Flexible Tubular Marker Bases	EACH	25. 000	25. 000	
0280	643. 0900	Traffic Control Signs	DAY	405.000	405. 000	
0290	643. 1050	Traffic Control Signs PCMS	DAY	30.000	30.000	
0300	650. 4500	Construction Staking Subgrade	LF	761. 000	761. 000	
0310	650. 5000	Construction Staking Base	LF	761. 000	761. 000	
0320	650. 6000	Construction Staking Pipe Culverts	EACH	3.000	3. 000	
0330	650. 9910	Construction Staking Supplemental Control (project) 01. 4140-20-74	LS	1. 000	1. 000	
0340	690. 0150	Sawing Asphalt	LF	440.000	440.000	
0350	ASP. 1TOA	On-the-Job Training Apprentice at \$5.	HRS	150.000	150.000	
		00/HR				
0360	ASP. 1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000	

3	Division	From/To Station	Location	Common Excavation (1) Cut (2)	(item # 205.0100) EBS Excavation (3)	Salvaged/Unus able Pavement Material (4)	Available Material (5)	Unexpanded Fill	Expanded Fill (13) Factor 1.33	Mass Ordinate +/- (14)	Waste	Borrow (item #208.0100)
	1	1901+50 - 1904+50	EGG HARBOR CONN	244	0	0	244	339	451	-207		(1011 11 200.0100)
		1920+00 - 1924+50		350	0	0	350	107	142			
	Division 1 Subtotal			594	0	0	594	446	593	1		
	Grand Total			594	0	0	594	446	593	1	1	0
	_		_	Total Common		_	_		_		_	
				Evc	504							

- 1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
- 2) Salvaged/Unsuable Pavement Material is included in Cut.
- 3) EBS Excavation to be backfilled with Select Borrow material.
- 4) Salvaged/Unusable Pavement Material
- 5) Available Material = Cut Salvaged/Unusuable Pavement Material
- 6) Marsh Excavation to be backfilled with Select Borrow Material.
- 7) Rock Excavation item number 205.0200
- 8) Reduced Marsh in Fill Excavated Marsh material is usuable in Fills outside the 1:1 slope. Marsh in Fill Reduction factor = 0.6
- 9) Reduced EBS in Fill Excavated EBS material is usuable in Fills outside the 1:1 slope. EBS in Fill Reduction factor = 0.8
- 10) Expanded Marsh Backfill This is to be filled with Select Borrow material. Marsh Backfill Factor = 1.5. Item number 208.11
- 11) Expanded EBS Backfill This is to be filled with Select Borrow material. EBS Backfill Factor = 1.3. Item number 208.11
- 12) Expanded Rock Factor = 1.1
- 13) Expanded Fill. Factor = 1.33

Depending on selections:

<u>Expanded Fill = (Unexpanded Fill - Rock* Rock Factor - Reduced Marsh - Reduced EBS) * Fill Factor</u>

Or Expanded Fill = (Unexpanded Fill Rock* Rock Factor Reduced EBS) * Fill Factor
Or Expanded Fill = (Unexpanded Fill Rock* Rock Factor Reduced Marsh) * Fill Factor

Or Expanded Fill = (Unexpanded Fill - Rock* Rock Factor) * Fill Factor

14) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

PROJECT NO: 4140-20-74	HWY: STH 42/57	COUNTY: DOOR	MISCELLANEOUS QUANTITIES	SHEET	E '
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211.0400 305.0110 305.0120 305.0500 465.0125 624.0100 690.0150

			PREPARE	BASE	BASE				
			FOUNDATION	AGGREGATE	AGGREGATE		ASPHALTIC		
			FOR ASPHALTIC	DENSE	DENSE	SHAPING	SURFACE		SAWING
			PAVING	3/4-INCH	1 1/4-INCH	SHOULDERS	TEMPORARY	WATER	ASPHALT
ROADWAY	STATION - STATION	LT/RT	(PROJECT)	TON	TON	STA	TON	MGAL	LF
EGG HARBOR CONNECTOR	1901+50 1904+61	LT/RT		65	475	6	177	8	170
EGG HARBOR CONNECTOR	1920+00 - 1924+50	LT/RT		85	645	8	238	10	270
PROJECT 4140-20-74			1						
PROJECT 4140-20-74 TOTAL	S (0010)		1	150	1,120	14	415	18	440

CULVERT PIPES AND ENDWALLS

				521.0115 CULVE	521.0124 RT PIPE	521.1015 APRON ENDWALLS	521.1024 FOR CULVERT PIPE		
	INLET ELEV.	OUTLET ELEV.	SLOPE	CORRUGATED STEEL 15-INCH	CORRUGATED STEEL 24-INCH	STEEL 15-INCH	STEEL 24-INCH	THICKNE	SS (INCHES)
								STEEL	ALUMINUM
STATION	FT	FT		LF	LF	EACH	EACH		
1903+63	654.86	653.38	2.57%	58		1		0.064	0.060
1921+40	654.20	652.52	1.24%		135		2	0.064	0.075
1922+68	652.40	648.89	2.36%		149		2	0.064	0.075
PROJECT 414	0-20-74	TOTALS (0	010)	58	284	1	4		

NOTES:

- 1. STATIONS ARE TO THE CENTER OF PIPE
- 2. PIPE LENGTHS ARE MEASURED FROM ENDWALL TO ENDWALL

MOBILIZATION AND FIELD OFFICE

619.1000 642.5201

FIELD OFFICE MOBILIZATION TYPE C

PROJECT EACH EACH

4140-20-74 1 1

CONSTRUCTION STAVING	S ITEM	c														
CONSTRUCTION STAKING	J IIEM	<u>5</u>		650.4500	650.50	000 6	50.6000	650.9910	<u> </u>	ROSION CONTROL	<u>ITEMS</u>			628.7504	628.7555	
								CONSTRUCTION					Т	EMPORARY		
1				CONSTRUCTION	ON CONSTRU	CTION CON	STRUCTION	STAKING						DITCH	CULVERT	
				STAKING	STAKI		STAKING	SUPPLEMENTAL						CHECKS	PIPE CHECK	S
				SUBGRADE			CULVERTS	CONTROL		DADWAY GG HARBOR TEMPORARY	1901+50	- STATION - 1904+51		LF 24	EACH 6	_
ROADWAY STA	ATION	- STATION	LT/RT	LF	LF		EACH	LS		G HARBOR TEMPORARY		- 1924+50		96	24	
EGG HARBOR TEMPORARY 190		- 1904+61	LT	311	31		1		_	IG HARBOR TEMPORART	1320100	1321130	21/101	30		
EGG HARBOR TEMPORARY 192	20+00	- 1924+50	RT	450	450	0	2		UN	NDISTRIBUTED				15	10	ŀ
										ROJECT 4140-20-74 TOTA	LS (0010)			135	40	-
PROJECT 4140-20-74					-	-		1			(00.0)					
PROJECT 4140-20-74 TOTALS (00	10)			761	76	1	3	1	-							
RESTORATION ITEMS				625.0100	628.2002	629.0210	630.0130	630.0200	ER	OSION CONTROL M			628.1910			
					EROSION MAT		SEEDING				323		BILIZATION	IS		
					CLASS I	FERTILIZER		SEEDING			MOBILI		MERGENCY			
				TOPSOIL	TYPE A	TYPE B	NO. 30	TEMPORARY			ERC	SION	EROSION			
ROADWAY STA	ATION	- STATION	LT/RT	SY	SY	CWT	LB	LB			CON	NTROL	CONTROL			
EGG HARBOR CONNECTOR 19	01+50	1904+61	LT	390	390	0.2	7	10	PRO	DJECT	E.A	ACH	EACH			
EGG HARBOR CONNECTOR 19	21+25	1924+50	RT	460	460	0.3	8	12	414	40-20-74		2	2			
EGG HARBOR CONNECTOR 19	20+00	1923+00	RT	740	740	0.5	13	20								
UNDISTRIBUTED				160	160	0	7	13								
PROJECT 4140-20-74 TOTALS (00	10)			1,750	1,750	1.0	35	55								
TRAFFIC CONTROL ITEM	<u>1S</u>	643.0100		(643.0300	643.04	153 64	3.0500 6	43.0600	643.0900		643.1(050			
											PCMS					
			ESTIMA			BARRICA	NDES	TRAFFIC CONTE	ROL		ESTIMATED					
	TF	RAFFIC CONTROL			FIC CONTROL			EXIBLE TUBULAR I		TRAFFIC CONTROL		TRAFFIC CO				
		(PROJECT)	TIN		DRUMS	TYPE			BASES	SIGNS	TIME	SIGNS P				
ROADWAY		EACH	DA			EACH	-l E		EACH	EACH DAY	DAYS	EACH	DAY			
EGG HARBOR CONNECTOR		1	17	65	1,105	16		25	25	19 323	7	3	21			

25

25

MISCELLANEOUS QUANTITIES

280

1,400

HWY: STH 42/57

16

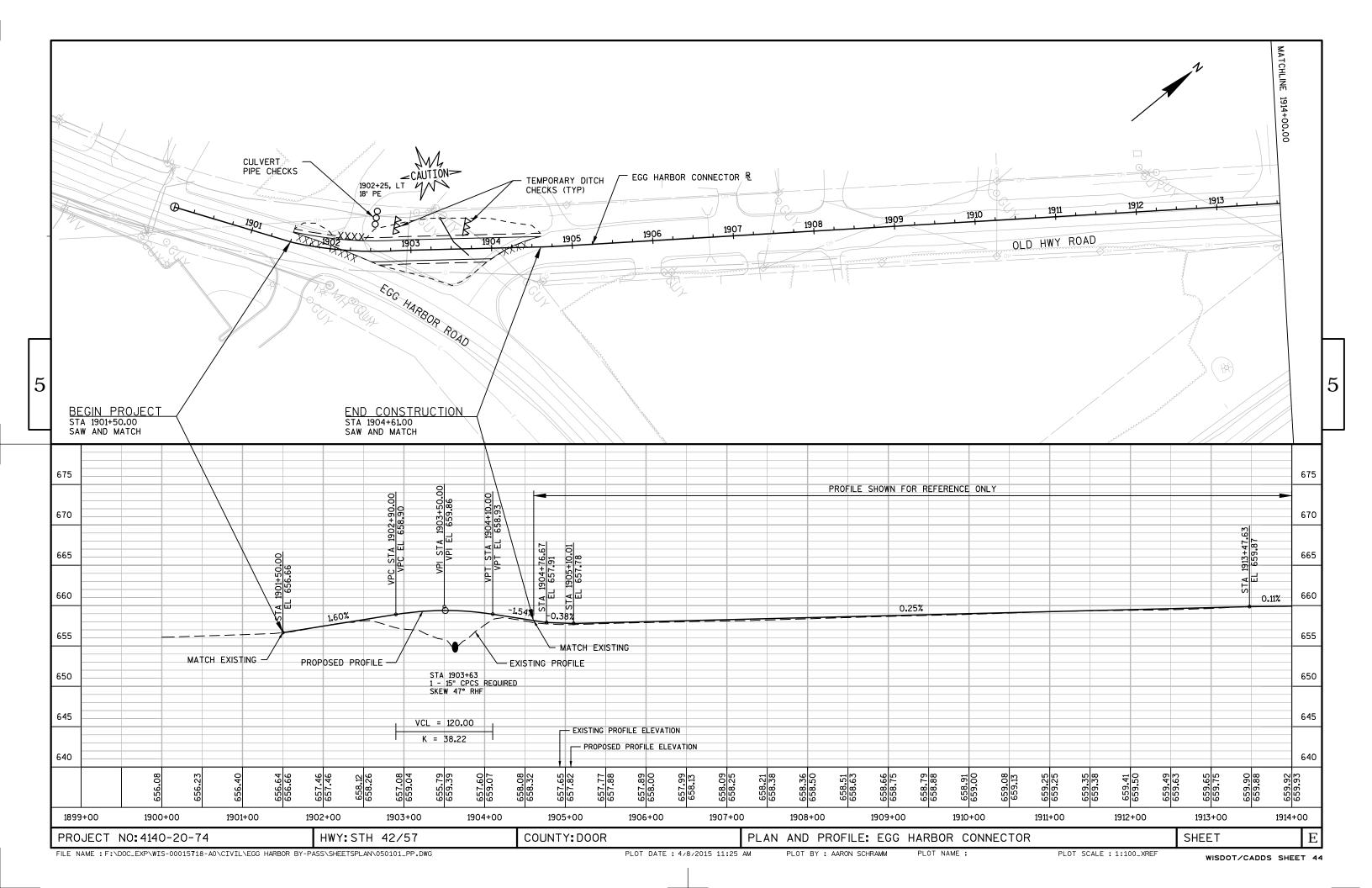
COUNTY: DOOR

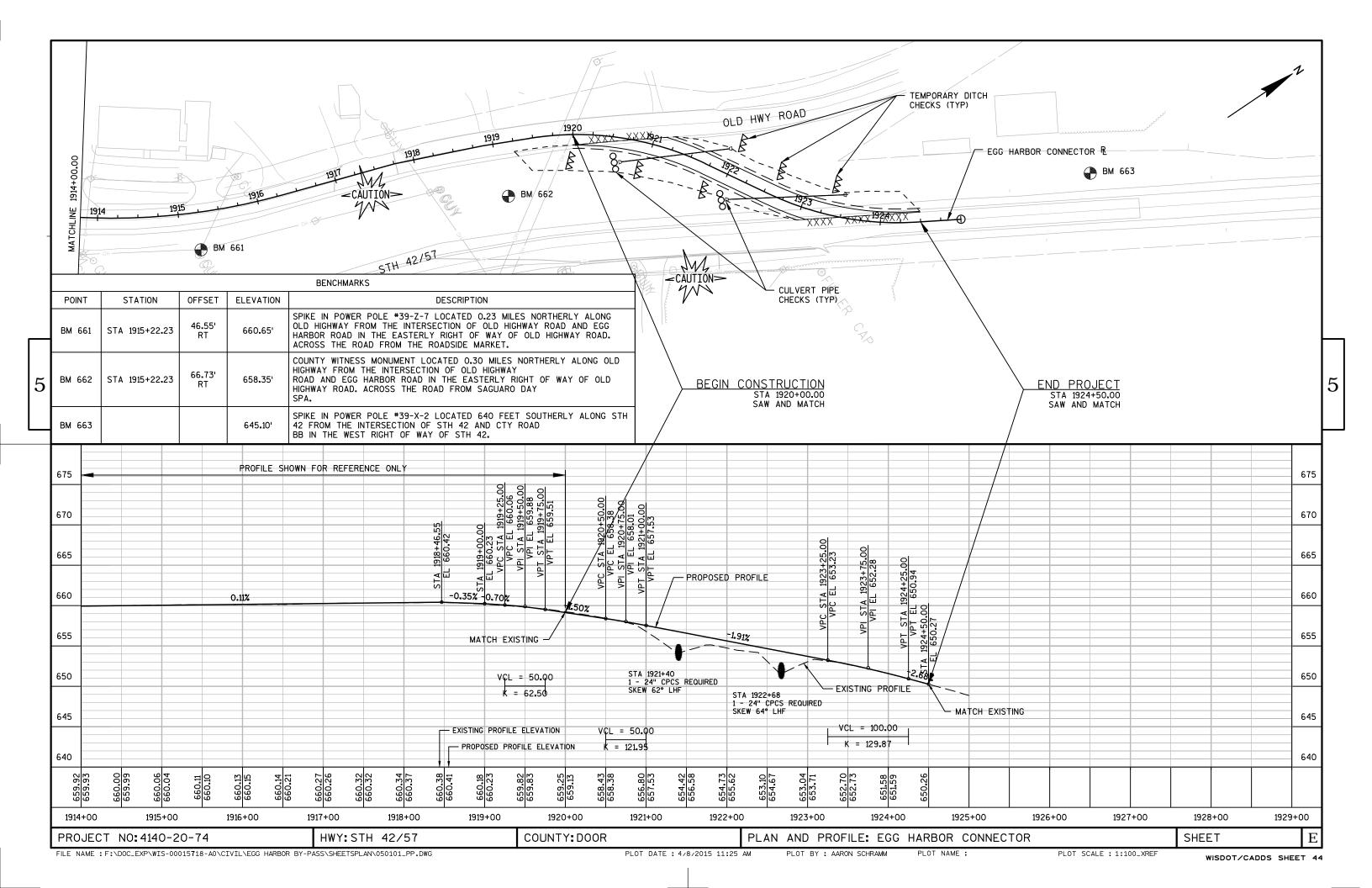
UNDISTRIBUTED

PROJECT NO: 4140-20-74

PROJECT 4140-20-74 TOTALS (0010)

SHEET





Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
15C02-05A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C04-02	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-02	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15D28-02	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D31-02	TRAFFIC CONTROL, TEMPORARY BYPASS ROADWAY

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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.

TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF **EROSION BALES / TEMPORARY** DITCH CHECKS

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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	METAL APRON ENDWALLS												
PIPE	MIN. 1	THICK.			DIMENS	SIONS (II	nches)			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		DIMENSIONS (Inches)											
DIA.	Т	A	В	С	D	E	G	APPROX. 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

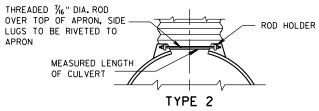
END SECTION CONNECTOR STRAP LUG

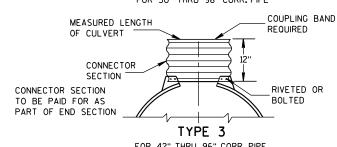
1" WIDE, 12 GA. (0.109"

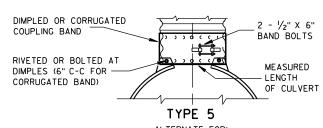
THICK) GALVANIZED STRAP

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

TYPE 1 FOR 12" THRU 24" CORR. PIPE





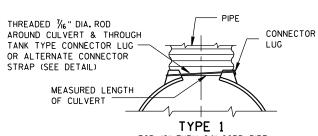


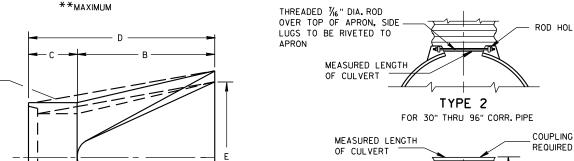
ALTERNATE FOR: ALL SIZES CORRUGATED CIRCULAR PIPE

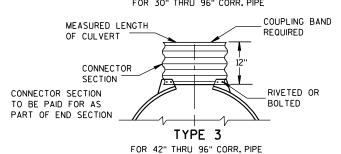
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

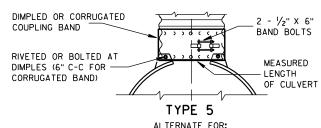
CONNECTION DETAILS 1, 2 OR 5.

ALTERNATE FOR TYPE 1 CONNECTION







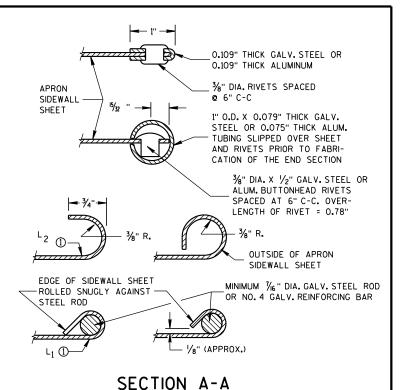


FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5

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



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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TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

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C

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

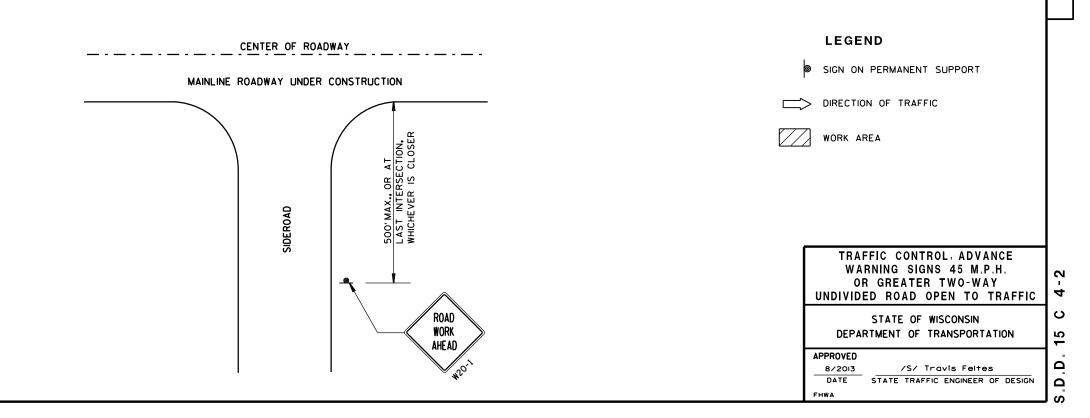
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"×48" UNLESS OTHERWISE NOTED.

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

- * OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- * PLACE ADDITIONAL W20-1 "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

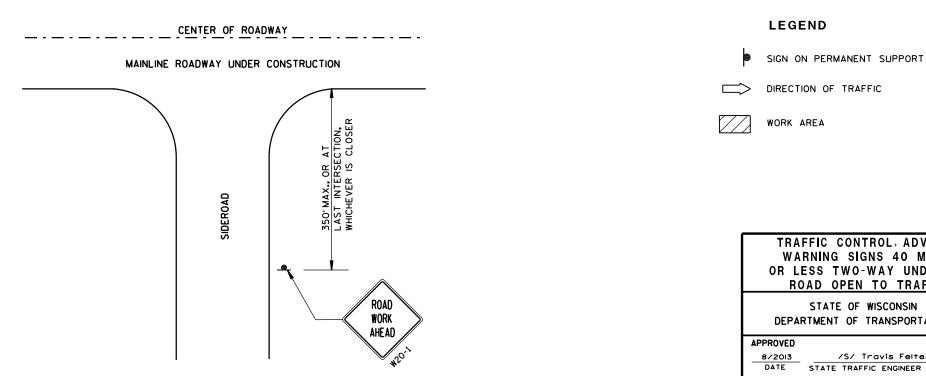
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"×48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48"

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

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN

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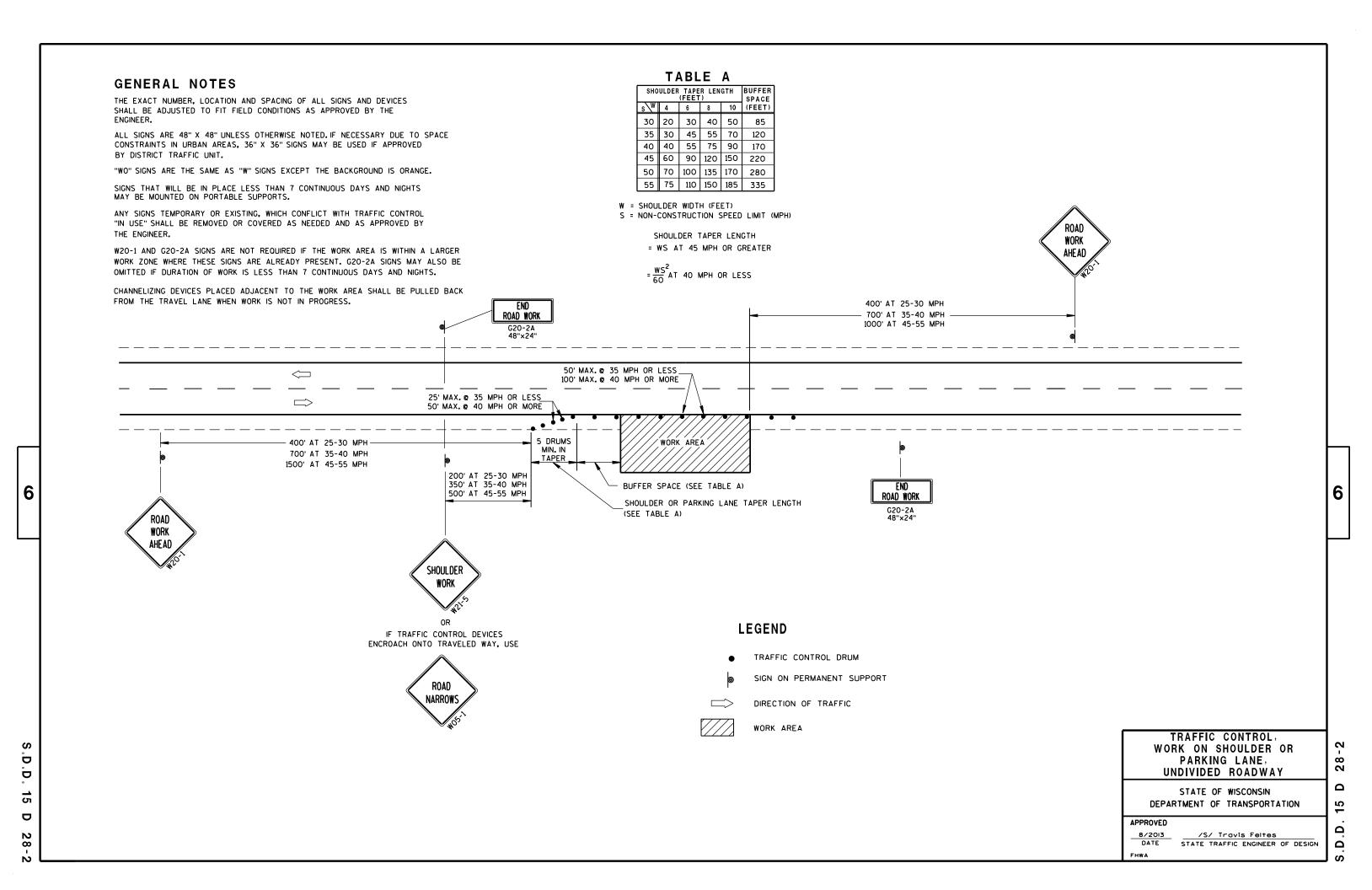
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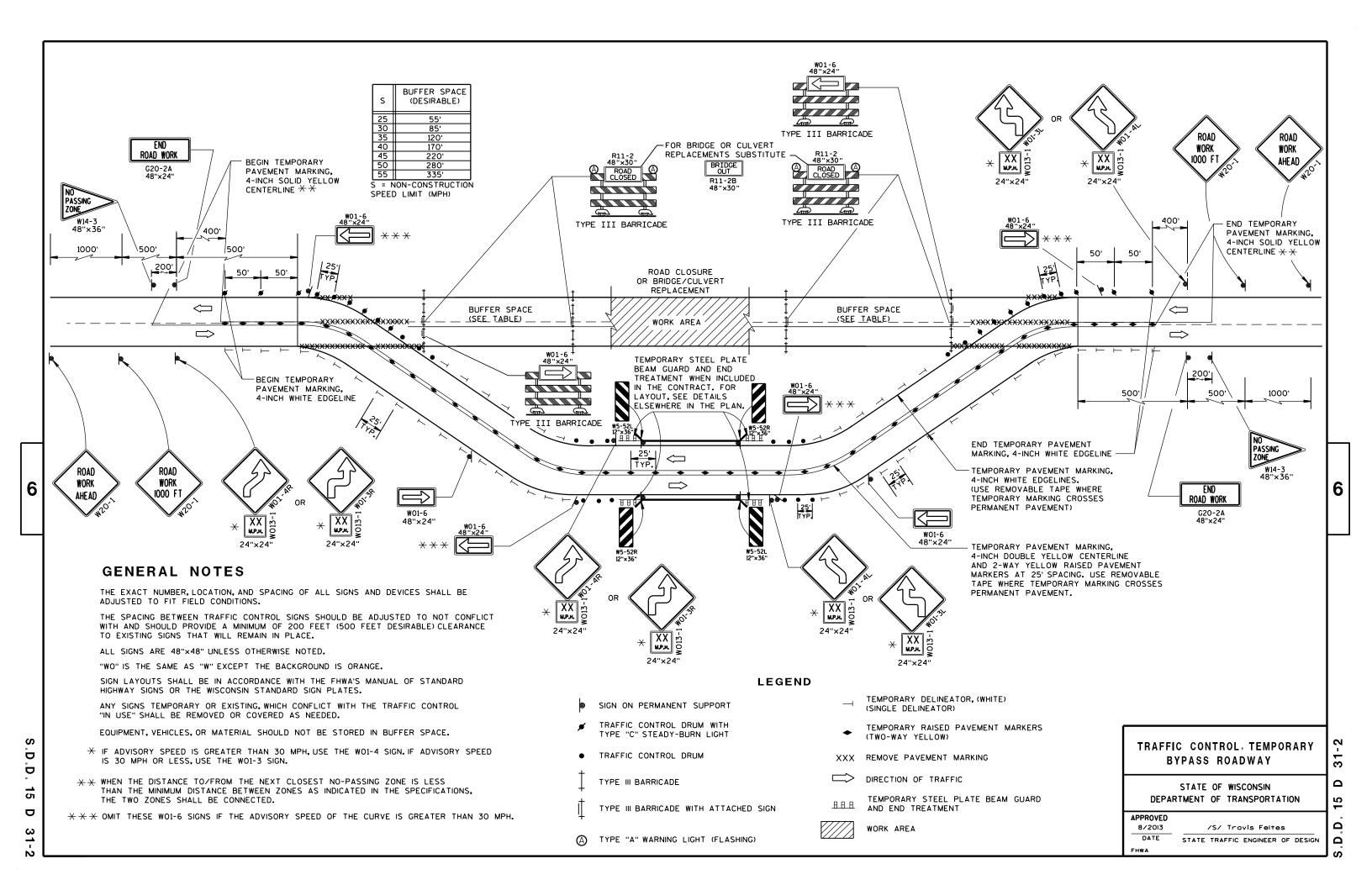
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D Ö 15 C







	Station Distance	AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)		
Real S STATION		Cut	Salvaged/	Fill	Cut Note 1	Salvaged/Unusable Pavement Material Note 2	Fill Note 3	Cut 1.00 Note 1	Expanded Fill 1.25	Mass Ordinato
1901+50.00	AHEAD	24.0	0	0.0	0	0	0	0	0	0
1902+00.00	50.00	27.1	0	0.0	47	0	0	47	0	47
1902+50.00	50.00	48.6	0	2.9	70	0	3	117	4	114
1903+00.00	50.00	9.6	0	38.2	54	0	38	171	51	120
1903+50.00	50.00	18.2	0	117.0	26	0	144	197	231	-34
1904+00.00	50.00	9.8	0	24.7	26	0	131	223	395	-172
1904+50.00	50.00	13.2	0	0.0	21	0	23	244	424	-180
1905+00.00	BACK									
Cc			mn totals	244	0	339		L		
1919+50.00	AHEAD	19.4	0	0.0	0	0	0	0	0	0
1920+00.00	50.00	21.9	0	0.0	38	0	0	38	0	38
1920+50.00	50.00	24.5	0	0.5	43	0	0	81	0	81
1921+00.00	50.00	12.4	0	6.1	34	0	6	115	8	108
1921 + 50.00	50.00	25.8	0	17.1	35	0	21	150	34	117
1922+00.00	50.00	20.9	0	0.4	43	0	16	193	54	140
1922+50.00	50.00	18.3	0	21.0	36	0	20	229	79	151
1923+00.00	50.00	24.6	0	10.3	40	0	29	269	115	155
1923+50.00	50.00	21.2	0	3.0	42	0	12	311	130	182
1924+00.00	50.00	21.3	0	0.3	39	0	3	350	134	218
1924+50.00	BACK									
Col			umn totals	350	0	107				

Notes:

1 - Cut Cut includes Salvaged/Unusable Pavement material

2 - Salvaged/Unusable Pavement NThis does not show up in cross sections

3 - Fill Does not include Unusable Pavement Exc volume

4 Expanded Marsh Backfill Will be backfilled with Granular Backfill (or Cut, or Borrow)

5 Expanded EBS Will be backfilled with Granular Backfill (or Cut, or Borrow)

6 Reduced Marsh in Fill Reduced Marsh Excavation that can be used in Fill

7 Reduced EBS in Fill Reduced EBS Excavation that can be used in Fill

8 - Mass Ordinate If Marsh or EBS to be backfilled with Cut or Borrow: [(Cut + Marsh Exc + EBS) - ((Fill - Reduced Marsh in Fill) - (Reduced EBS in Fill) - Expanded Rock) * Fill Factor)]

8 - Mass Ordinate If Marsh and EBS to be backfilled with Granular: [(Cut + EBS + Marsh Exc) - ((Fill - (Reduced Marsh in Fill) - (Reduced EBS in Fill) - (Expanded Rock)) * Fill Factor))]

8 - Mass Ordinate If Marsh and EBS to be backfilled with Granular: [(Cut) - ((Fill - Expanded Rock) * Fill Factor))]

8 - Mass Ordinate If Marsh and EBS to be backfilled with Cut or Borrow: [(Cut) - ((Fill - Expanded Rock) * Fill Factor))]

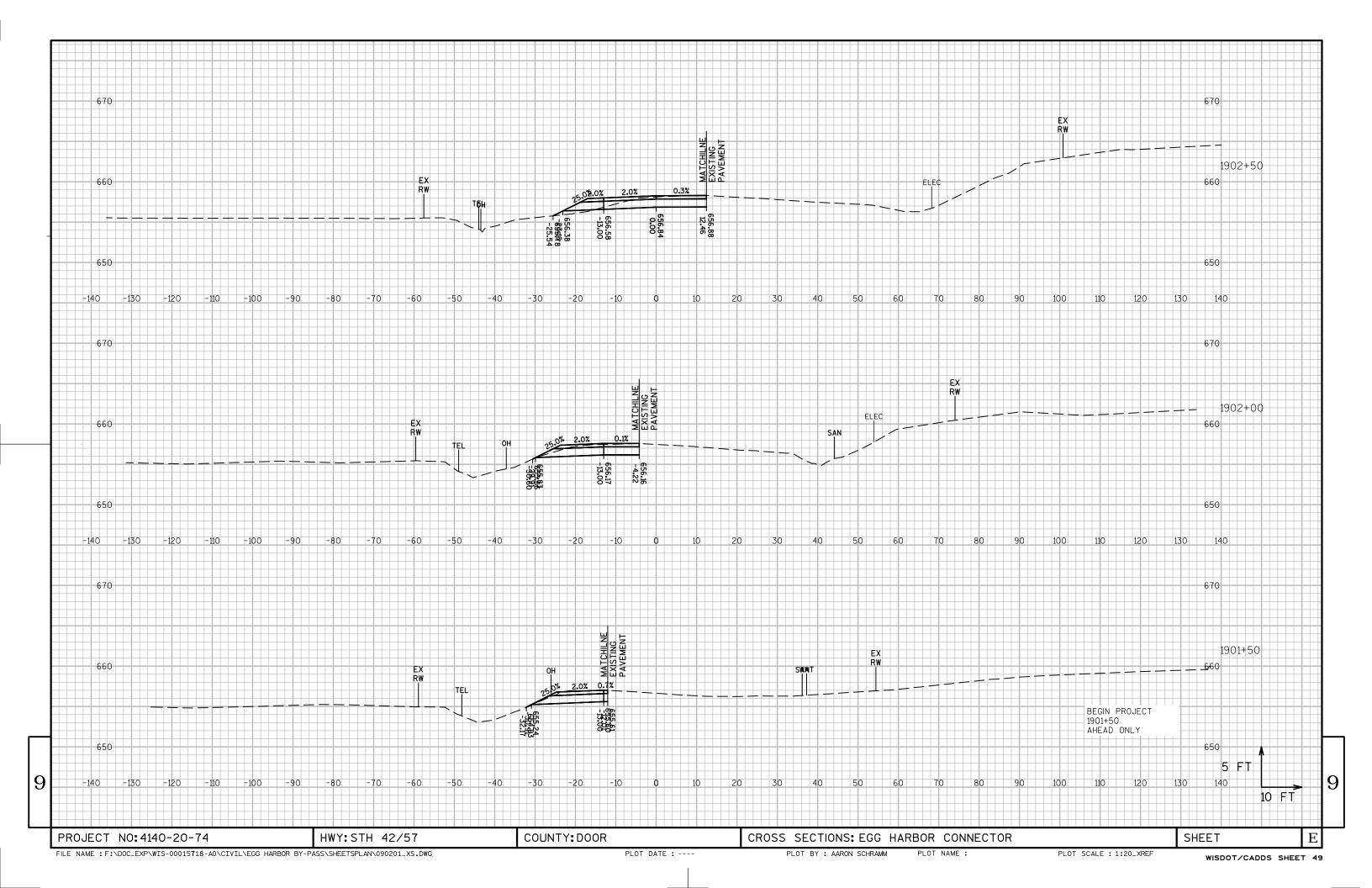
PROJECT NO: 4140-20-74

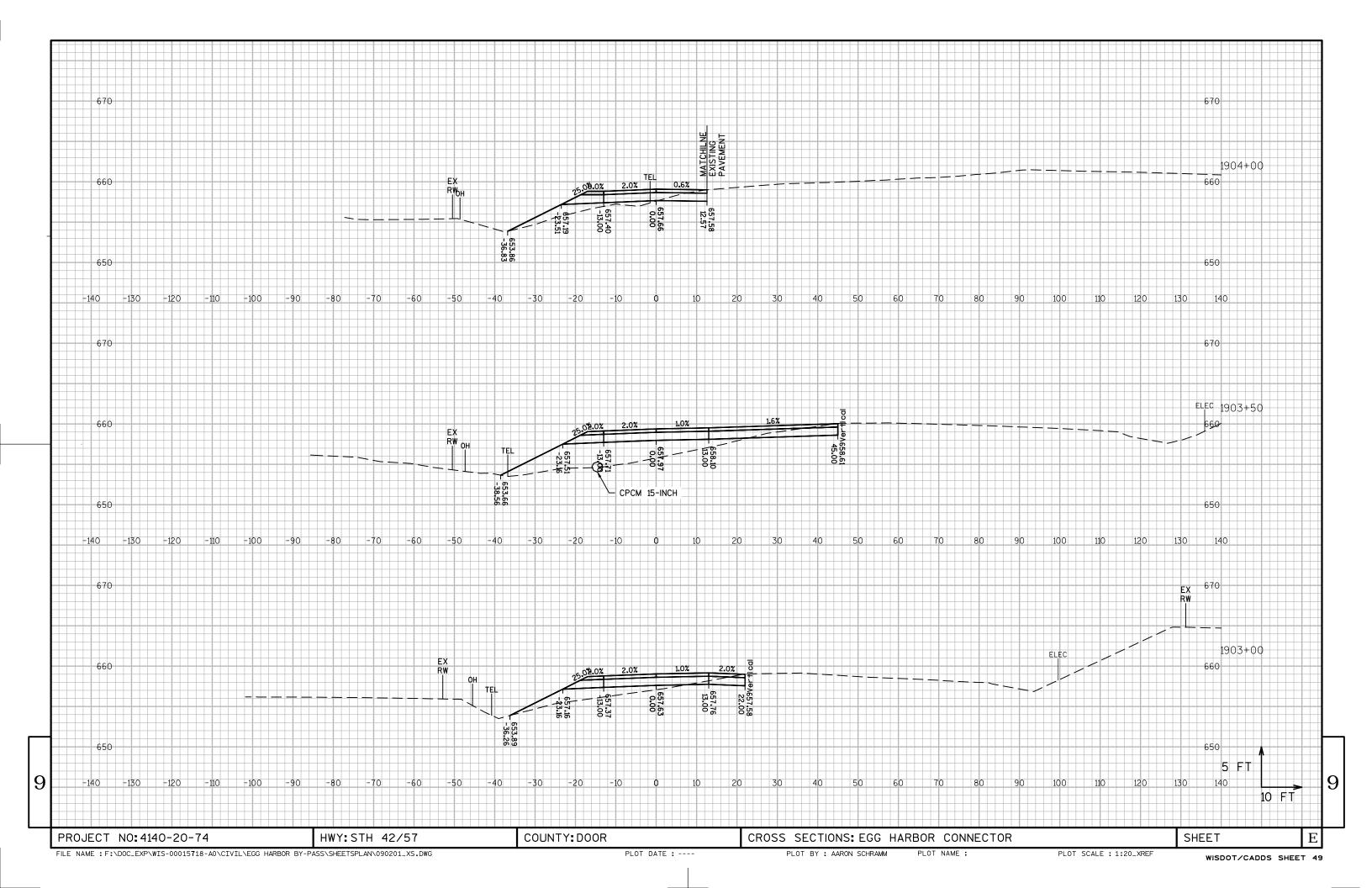
HWY: STH 42/57

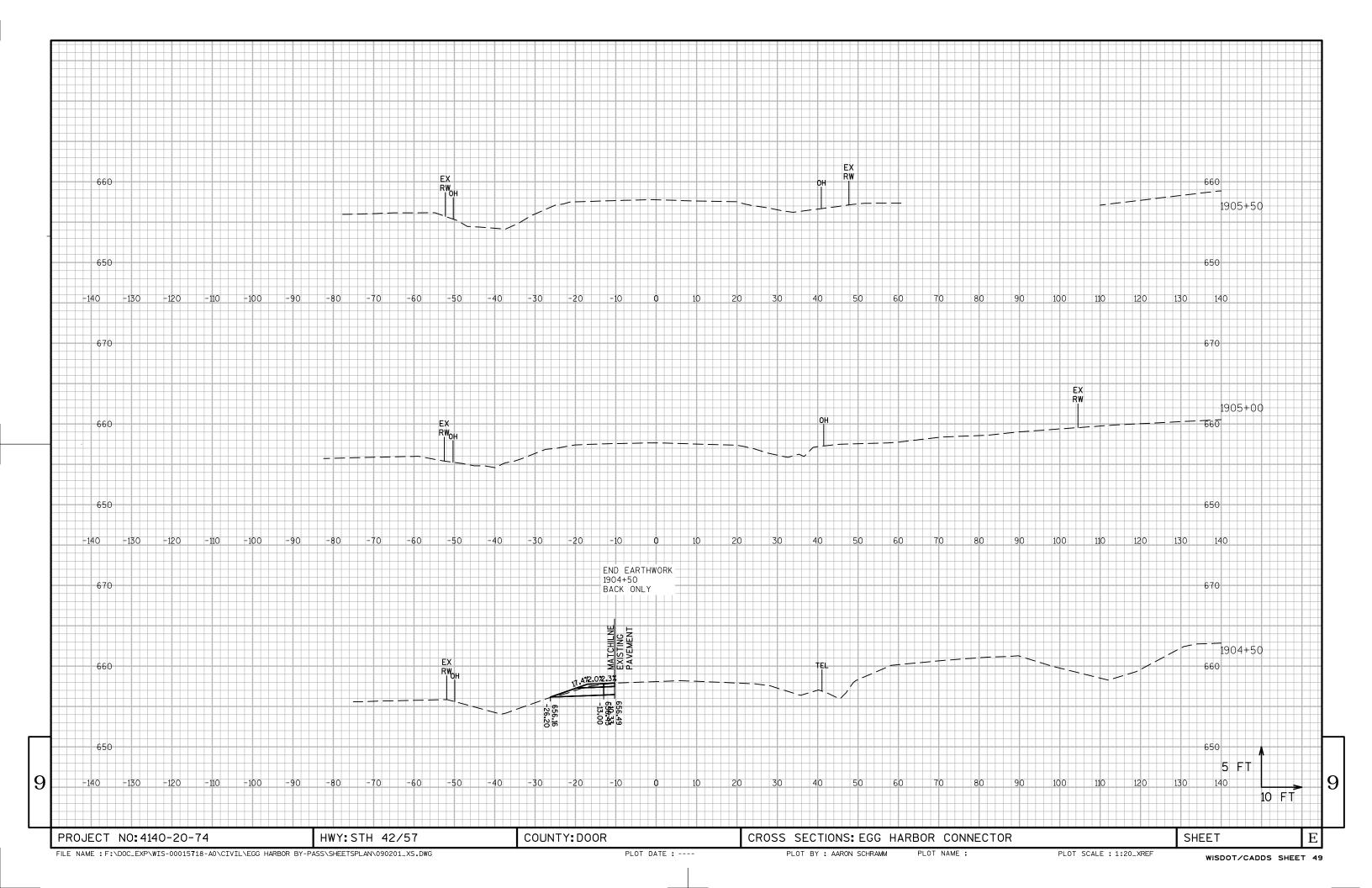
COUNTY: DOOR

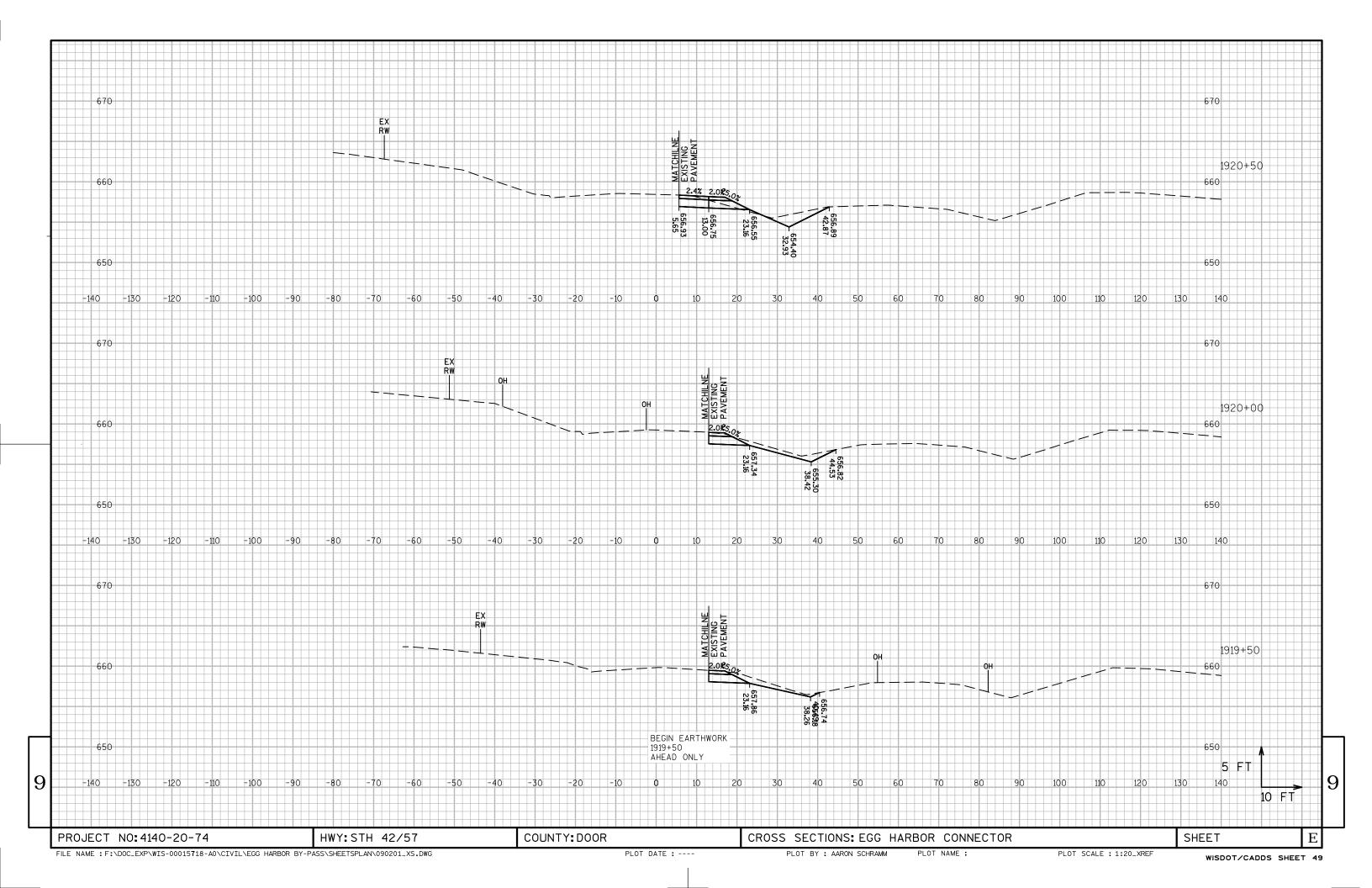
EARTH QUANTITIES

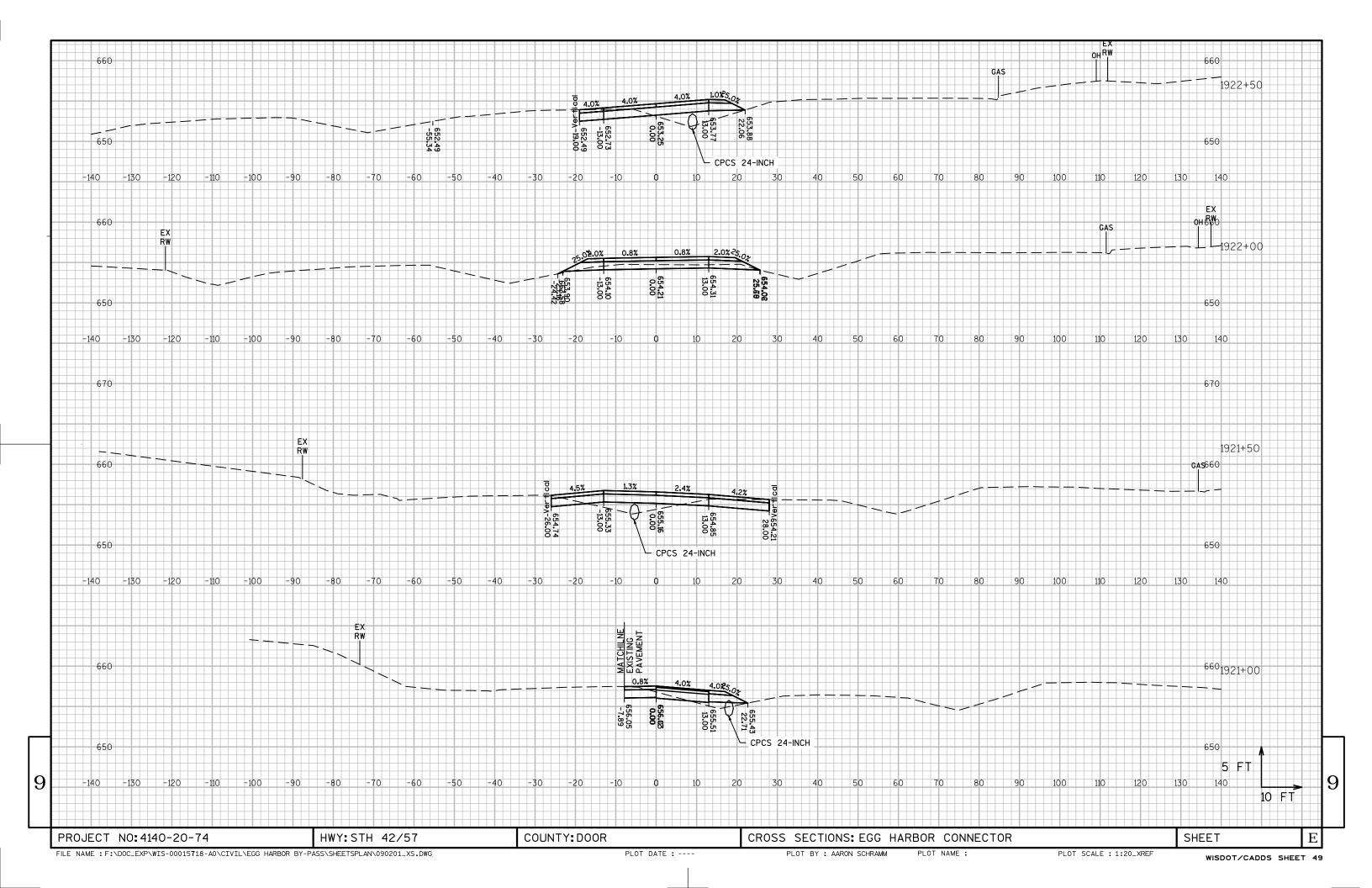
SHEET **E**

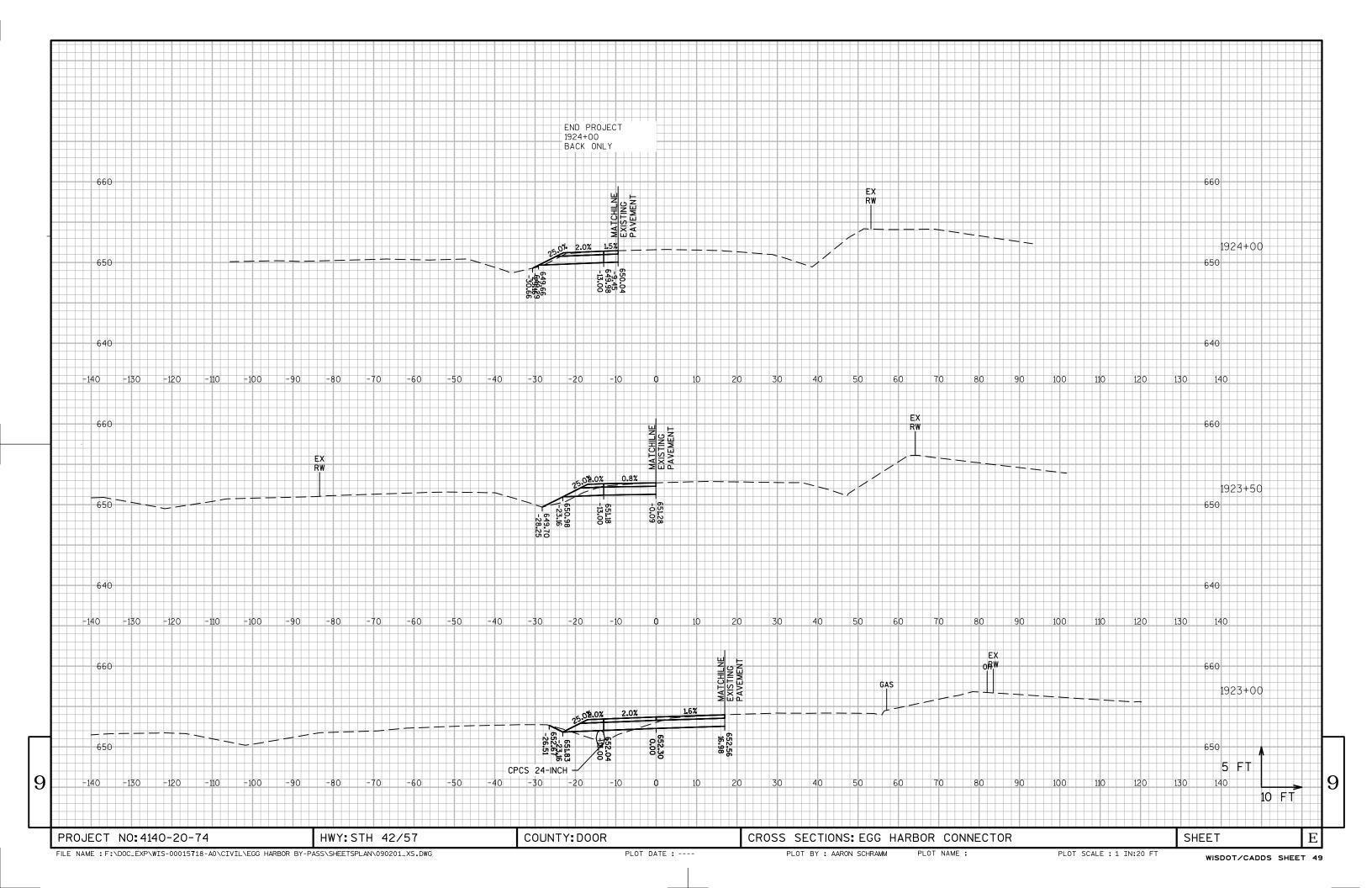














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