

THE CONTRACTORS CRANES AND OTHER HEAVY EQUIPMENT SHALL MAINTAIN A CLEAR RADIUS OF TWENTY (20) FEET PLUS AN ADDITIONAL TWENTY (20) FEET HORIZONTALLY FOR BLOWOUT FROM THE OVERHEAD HIGH VOLTAGE POWER LINES. DURING CONSTRUCTION OPERATIONS, IT IS THE CONTRACTORS OBLIGATION TO VERIFY THE EXACT LOCATION OF THE POWER LINES IN THE

13347

2670

2030

				BR1–4	86–01
CONTRACT	BRIDGE NO.	1–486			SHEET NO.
200811301		1 100	GENERAL PLAN		264
COUNTY	DESIGNED BY:	JLW	ELEVATION		TOTAL SHTS.
W CASTLE	CHECKED BY:	JPF			850





PROJECT N	OTES:
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10. PILES

(RECOMMENDED) PILES SHALL BE HP14X73 PILES CON

(ALTERNATE)

PILES SHALL BE 14" OUTSIDE DIAME WITH 1/2" WALL THICKNESS CONFORM (ULTIMATE TENSILE STRENGTH OF 60 THE VOID REMAINING IN THE PILE FO REINFORCED AND FILLED WITH CLASS

ONLY ONE PILE TYPE SHALL BE USE PILES SHALL BE SPLICED AS NECES REQUIRED CLEARANCES FROM THE H THAT WILL REMAIN IN OPERATION THE MORE INFORMATION REGARDING PILE REFER TO SECTION 618 (PILE MATER SPECIFICATIONS. FOR MORE INFORMA AND INSTALLATION, REFER TO SECTIO OF THE STANDARD SPECIFICATIONS.

- 11. HIGH POWER OVERHEAD UTILITIES AT ALL TIMES THE CONTRACTOR SHAL MAINTAINING REQUIRED CLEAR DISTAN MATERIAL FROM THE 138KV AND 230 INCLUDES PILE DRIVING AND BEAM E
- 12.STYROFOAM MUST MEET ASTM C-578 REQUIREMENTS EXCEPT THE MAXIMUM
- 13. SEE ROADWAY CONSTRUCTION DETAIL APPROACH EMBANKMENT SETTLEMEN QUARANTINE PERIOD REQUIREMENTS.
- 14. PROVIDE MINIMUM TEMPORARY VERTI AT ALL TIMES DURING CONSTRUCTION
- 16.DO NOT PERFORM ANY WORK DIRECT TRAFFIC WITHOUT ADEQUATE SHIELDII LANE CLOSURES OR DETOURS IN AC PLANS AND SPECIFICATIONS.
- 17.INSTALL SIP FORMS, ADDITIONAL PRO PLATFORMS AND/OR OVERHANG FALS CONSTRUCTION OPERATIONS OVER TH
- 18.IF THE CONTRACTOR DETERMINES TH SHIELDING OR WORK PLATFORMS ARE SUBMIT PLANS AND CALCULATIONS F PROTECTING TRAFFIC WHILE WORKING DRAWINGS AND DESIGN CALCULATIONS BY A DELAWARE REGISTERED PROFE OF THE ENGINEER WILL NOT RELIEVE RESPONSIBILITY FOR THE SAFETY OF BASED ON CONTRACTOR MEANS AND DEFINE ALL DEAD AND LIVE LOADS MINIMUM, SHALL BE INSTALLED BETW TRAVEL WAY OR SHOULDER AREA W SEPARATE PAYMENT WILL BE MADE I OR WORK PLATFORMS.
- 19. ALL FORMWORK INCLUDING STAY-IN-P
- 20. WHILE PLACING DECK, DECK OVERHA LANES OPEN TO TRAFFIC. NO CLOSU DURING THESE OPERATIONS.
- 21. THE MAINTENANCE OF TRAFFIC REQU THESE ITEMS WILL BE PAID UNDER UNIT BID ITEMS. CONTRACTOR SHALL PLAN, DELAWARE MUTCD, AND TRAFF RESTRICTIONS PROVIDED IN THE CON
- 22. CLOSED CELL NEOPRENE SPONGE PA SPONGE NEOPRENE OR EXPANDED N OF LAMINATIONS. USE MATERIAL CON
- * ASTM D 1056, TYPE 2, CLASS C, REQUIREMENTS OF SUFFIXES B3
- * ASTM D 1171, QUALITY RETENTION WEEKS EXPOSURE.

23. ALL EXPANSION MATERIAL MUST MEE

	ADDENDUMS / REVISIONS	110 004	
DELAWARE		05 301	Т
DEPARTMENT OF TRANSPORTATION		MARYLAND STATE LINE	
		TO LEVELS ROAD	NE

			BR1-486 ESTIMAT	ED QUANTITIES		
	ITEM NUMBER		DESCRIPTION		UNIT	QUANT I T
RMING TO ASTM A TOO CRADE SO	207000**	EXCAVATION AND BACKFILL	FOR STRUCTURES		CY	216
WIIN IN ATTUS, UNAUL JU.	209002*	BORROW, TYPE B				27
	602006	PORTLAND CEMENT CONCRET	E MASUNKY, PIER FO	NUTING, CLASS B		94
OPEN END PIPE PILES	602007 602013	PORTLAND CEMENT CONCRET	E MASUNKI, MIEK AL E MASONRY SIDEDS	RUCTURE CLASS A		105
IU ASIM A252, GRADE 2	602013	PORTIAND CEMENT CONCRET	F MASONRY APPRON	CH SLAB. CLASS D		110
'• /ING DRIVING SHALL BF	602014	PORTLAND CEMENT CONCRET	E MASONRY. ARITME	NT ABOVE FOOTING. CLASS A		70
CONCRETE, AS SPECIFIED.	602017	PORTLAND CEMENT CONCRET	E MASONRY, PARAPE	, CLASS A	CY	50
·	602772	MECHANICALLY STABILIZE	EARTH WALLS	·	LS	1
DR THIS STRUCTURE.	604000	BAR REINFORCEMENT, EPO	(Y COATED		LB	135000
IU MAINTAIN THE DOWER OVERHEAD TITUITIES	608000*	COURSE AGGREGATE FOR FO	UNDATION STABILIZA	TION AND SUBFOUNDATION BACKFIL	L TON	20
HOUT CONSTRUCTION. FOR	618062	FURNISH STEEL H PILES,	HP 14X73		LF	854
RIALS AND FABRICATION,	618065	FURNISH STEEL TEST H P	LES, HP 14X73			142
OF THE STANDARD	618552	FURNISH PIPE PILE, SCH	DULE 40, OPEN END,	$\frac{14"}{(ALTERNATE)}$		924
REGARDING PILE DRIVING	610042	FURNISH IESI PIPE PILE,	JUD 1AV73	VEND, 14" (ALIERNAIE)		152
(INSTALLATION OF PILES)	619042	INSTALL STEEL H FILES,	HF 14X73			142
	619501*	PRODUCTION PILE RESTRIC	/F			1
	619502*	TEST PILE RESTRIKE			EA DAY	1 1
RESPONSIBLE FOR	619519	DYNAMIC PILE TESTING BY	CONTRACTOR		EA	4
OF EQUIPMENT AND	619539	SIGNAL MATCHING ANALYS	S BY CONTRACTOR		EA	4
ON OPERATIONS.	619540	INSTALL PIPE PILE, SCH	DULE 40, OPEN END,	14" (ALTERNATE)	LF	924
	619558	INSTALL TEST PIPE PILE,	SCHEDULE 40, OPEI	N END, 14" (ALTERNATE)	LF	152
PE 1, MATERIAL	<u>623003</u>	PRESTRESSED REINFORCED	CONCRETE MEMBERS,	BULB T-BEAM, PCEF 32/45	LS	1
TER ABSORPTION TO BE 2%.	727507	BRIDGE SAFETY FENCE			LF	290
AN (DRAWING DT-24) FOR ROADWAY	THE	QUANTITIES PROVIDED INCLUD	E ONLY THOSE ASSCOCI	ATED WITH BRIDGE BR1-486 (STRAWBER	RY LANE	BRIDGE).
NITORING AND	* CONT INC	ENCY ITEM	AND SIKAWBERKI LAN	ARE NOT INCLUDED IN THE TABULATIO	// N.	
OVER OPEN LANES OF R WORK PLATFORMS,			LOAD RATING	SUMMARY		
ANCE WITH THE CONTRACT	DESIGNVEH	RATI	NG RATING WEIGHT	CONTROLLING MEMBER CONTRO	DLLOING	ΙΛΔΠ
		FACI	OR (TON)		/ <i>N</i> /	LOND
VE SHIELD SYSTEM, WORK	HL-93 TRUCK	(INVENTORY) 1.4	0 N/A	SPAN 2: INTERIOR BEAM 200). 55	SH
RK BEFORE BEGINNING ANY	HL-93 TANDE	I. 7	7 <u>N/A</u>	SPAN 1: INTERIOR BEAM 109	9. 45	SH
	HL-93 TRUCK	(TRAIN (INVENIORY) 1.4	/ N/A	SPAN 1: EXTERIOR BEAM 110	. 00	FLE.
DITIONAL PROTECTIVE	HS-20 (TNVE	(OPERATINC) 1.9	$\frac{1}{0}$	SPAN 1: INTERIOR BEAM 109	43 45	SH. SH
DED TO PROTECT TRAFFIC,	HI-93 TANDE	(OPERATING) = 1.0	8 N/A	SPAN 1: INTERIOR BEAM 109	4J 45	
EVIEW AND APPROVAL FOR	HI - 9.3 TRUCK	TRAIN (OPERATING) 1.9	1 N/A	SPAN 1: EXTERIOR BEAM 110	-70	 FLF
R TRAVELWAYS. HAVE THE	HS-20 (OPER	AT / NG) 2.5	7 92.44	SPAN 1: INTERIOR BEAM 109	. 45	SH
PARED, SIGNED, AND SEALED	DE S220 & L	EGAL LANE (LEGAL) 4.0	3 80.63	SPAN 1: EXTERIOR BEAM 109	9.45	LONG IT.
CONTRACTOR OF THE	DE S335 & L	EGAL LANE (LEGAL) 2.6	2 91.55	SPAN 1: EXTERIOR BEAM 109	9.45	LONG IT.
METHOD OR EQUIPMENT.	DE S437 & L	EGAL LANE (LEGAL) 2.5	0 91.56	SPAN 2: EXTERIOR BEAM 200	D . 55	FLANGE
HODS DETERMINE AND CLEARLY	DE T330 & L	EGAL LANE (LEGAL) 3.2	5	SPAN 1: EXTERIOR BEAM 109	9.45	LONG IT.
HIS SYSTEM, WHICH, AT A	DE T435 & L	EGAL LANE (LEGAL) 2.9	0 101.50	SPAN 1: EXTERIOR BEAM 109	9.45	LONG IT.
	DE T540 & L	EGAL LANE (LEGAL) 2.6	5 105.85	SPAN 1: EXTERIOR BEAM 109	9.45	LONG IT.
TRAFFIC IS MAINTAINED NO	INOTE: 104D	KALING INCLUDES FUTURE	VEARING SURFACE AS	NUIED IN THE PLANS.		
TRAFFIC IS MAINTAINED. NO						
TRAFFIC IS MAINTAINED. NO ADDITIONAL PROTECTIVE SHEILDING						
TRAFFIC IS MAINTAINED. NO ADDITIONAL PROTECTIVE SHEILDING	RATING	NOTES:				
TRAFFIC IS MAINTAINED. NO ADDITIONAL PROTECTIVE SHEILDING FORMS SHALL BE MORTAR TIGHT.	RATING	NOTES:				
TRAFFIC IS MAINTAINED. NO ADDITIONAL PROTECTIVE SHEILDING FORMS SHALL BE MORTAR TIGHT.	RATING • LOAD RATING	NOTES: S DETERMINED USING THE LOA	D RESISTANCE			
TRAFFIC IS MAINTAINED. NO ADDITIONAL PROTECTIVE SHEILDING FORMS SHALL BE MORTAR TIGHT. ND PARAPET CONCRETE OVER R DETOURS WILL BE ALLOWED	RATING • LOAD RATING • RATING RAT	NOTES: S DETERMINED USING THE LOA ING (LRFR) METHOD.	D RESISTANCE			
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		•	FOR GENERAL PLAN , SEE SHEET BR1-486-01	BR1–4	86–03
ONTRACT	BRIDGE NO.	1–486			SHEET NO.
:00811301				0	266
COUNTY	DESIGNED BY:	JLW	PROJECT NOTE	5	TOTAL SHTS.
V CASTLE	CHECKED BY:	JPF			850



R1-486-03	WA EXIST THE I THE I SHALI SHALI THE I A CLI FEET POWE OBLIG FIELD	RNING: ING OVERHEAD BRIDGE CONSTRU SHUT OFF. AT E EXERCISE EXT CONTRACTORS CO EAR RADIUS OF HORIZONTALLY R LINES. DURING ATION TO VERIF AND TO MAINTA	HIGH VOLTA ICTION. AT I ALL TIMES REME CAUTI RANES AND TWENTY (2 FOR BLOWO G CONSTRUC Y THE EXAC AIN AND ENI	GE POWER LINES AR NO TIME WILL THE PO DURING CONSTRUCTION OTHER HEAVY EQUI O) FEET PLUS AN AL UT FROM THE OVERH CTION OPERATIONS, IT CT LOCATION OF THE FORCE CLEARANCE R	E IN THE VICINITY OF WER BE PERMITTED ON, THE CONTRACTOR STRUCTION OPERATIONS. PMENT SHALL MAINTAIN ODITIONAL TWENTY (20) HEAD HIGH VOLTAGE IS THE CONTRACTORS POWER LINES IN THE PEQUIREMENTS.			
							BR1-4	86–04
		CONTRACT	BRIDGE NO.	1–486				SHEET NO.
LINE		T 200811301	DESIGNED BY: JLW					
AD			CHECKED BY:	.IPF				BEO
		NEW CASILE	CHLONED DI					650

	WORK POINT	COORDIN	IATES	
NG POINT	STATION	OFFSET	NORTHING	EASTING
. P. 1	1010+46.85	20.52 R	515579.93	557171.20
. P. 2	1010+60.74	20.52 R	<i>515575.34</i>	557184.31
. P. 3	1010+63.99	0.00	515593.63	557194.16
. P. 4	1010+67.24	20.52 L	515611.93	557204.00
. P . 5	1010+53.19	20.52 L	515616.57	557190.74
. P. 6	1011+37.10	19.75 L	515588.13	557269.68
. P. 7	1011+33.97	0.00	515570.52	557260.20
. P . 8	1011+30.84	19.75 R	<i>515552.90</i>	557250.72
. P. 9	1012+21.08	20.52 L	515561.10	<i>557349.21</i>
P. 10	1012+07.19	20.52 L	515565.69	557336.09
P. 11	1012+03.94	0.00	515547.40	<i>557326.25</i>
P. 12	1012+00.69	20.52 R	515529.10	557316.40
P. 13	1012+14.74	20.52 R	515524.46	<i>557329.66</i>
P. 14	1010+39.56	44.46 R	515559.74	557156.41
P. 15	1010+51.15	32.46 R	515567.24	557171.31
<i>P.</i> 16	1010+6 <mark>2.</mark> 38	20.83 R	515574.50	557185.75
<i>P.</i> 17	1010+6 <mark>5.</mark> 68	0.00	515593.08	<i>557195.75</i>
<i>P.</i> 18	<u>1010+6<mark>8.</mark>99</u>	20.90 L	515611.71	<i>557205.78</i>
<i>P.</i> 19	<u>1010+6<mark>0.</mark>64</u>	32.39 L	515625.31	557201.70
<i>P. 20</i>	1010+5 <mark>2.</mark> 35	43.80 L	<u>5156</u> 38.82	557197.64
<i>P.</i> 21	10 <mark>12+26.</mark> 64	38.51 L	51 <mark>55</mark> 76.25	557360.40
<i>P. 22</i>	101 <mark>2+19.</mark> 49	32.51 L	51 <mark>55</mark> 72.95	557351.66
<i>P. 23</i>	1012+ <mark>05.</mark> 55	20.81 L	<u>515566.51</u>	557334.64
<i>P.</i> 24	1012+02.25	0.00	515547.96	557324.65
P. 25	1011+98.95	20.89 R	515529.33	557314.63
P. 26	1012+08.99	32.44 R	515515.12	557320.29
P. 27	1012+15.37	39.78 R	515506.08	<i>557323.89</i>



PILE INSTALLATION NOTES:

- 1. ALL PILES SHALL BE EITHER STEEL H PILES HP14X73 AASHTO M270 (ASTM A709),GRADE 50 (RECOMMENDED) OR 14" DIAMETER OPEN END STEEL PIPE PILES, 1/2 " WALL THICKNESS, (ASTM A252) GRADE 2 (ALTERNATE).
- 2. PILES SHALL BE CASED WITH A CORRUGATED GALVANIZED STEEL PIPE FROM THE BOTTOM OF MSE WALL LEVELING PAD ELEVATION AND FILLED WITH FINE AGGREGATE (SEE DELDOT STANDARD SPECIFICATIONS, SECTION 804). FOR THE RECOMMENDED H PILE THE CORRUGATED GALVANIZED STEEL PIPE SHALL BE 24", 16 GAGE 2 2/3" X 1/2" CORRUGATION AND FOR THE ALTERNATE PIPE PILE THE CORRUGATED GALVANIZED STEEL PIPE SHALL BE 18", 16 GAGE 2 2/3" X 1/2" CORRUGATION. REFER TO PILE INSTALLATION SEQUENCE FOR ADDITIONAL INFORMATION. PAYMENT FOR CORRUGATED GALVANIZED STEEL PIPE & FINE AGGREGATE INSIDE PIPE SHALL BE INCIDENTAL TO ITEM "602722 - MECHANICALLY STABILIZED EARTH WALLS."
- 3. ALL TEST PILES SHALL BE 10 FEET LONGER THAN INDICATED ON THE PILE INSTALLATION TABLE.
- 4. ALL PILES SHALL BE DRIVEN TO THE NOMINAL PILE DRIVING RESISTANCE (Rndr) LISTED IN THE PILE INSTALLATION DATA TABLE.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A WAVE EQUATION ANALYSIS AND ALL OTHER INCIDENTALS IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. THE WAVE EQUATION AND HIGH-STRAIN DYNAMIC PILE TESTING MUST BE SIGNED AND STAMPED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF DELAWARE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- 6. PILE LENGTHS FOR ORDERING PURPOSES SHALL BE DETERMINED BY TEST PILES. A MINIMUM OF ONE PILE PER SUBSTRUCTURE. AS SHOWN ON THE PLANS. SHALL BE DYNAMICALLY TESTED WITH SIGNAL MATCHING ANALYSIS BY THE CONTRACTOR IN ACCORDANCE WITH SPECIAL PROVISION 619519 AND 619539. TEST AND PRODUCTION PILE RESTRIKES WILL BE PAID AS FOLLOWS: A). ALL TEST PILE(S) WILL BE RESTRUCK AFTER A WAITING PERIOD OF AT LEAST 48 HOURS. RESTRIKES OF THESE TEST PILES SHALL BE PERFORMED PRIOR TO PLACING ANY EMBANKMENT IN ACCORDANCE WITH ITEM NO. 619502 TEST PILE RESTRIKE. TEST PILE RESTRIKES SHALL BE INCIDENTAL TO THE INITIAL INSTALLATION OF THE PILE PROVIDED THEY ARE REQUESTED WITHIN FIVE WORKING DAYS FROM COMPLETION OF THE INITIAL DRIVE. IF THE TEST PILE RESTRIKES ARE REQUESTED AFTER THE FIVE WORKING DAYS FROM THE COMPLETION OF THE INITITAL DRIVE THEN THE TEST PILE RESTRIKES SHALL BE PAID AS NOTED IN SPECIAL PROVISION 619502. B). IF DIRECTED BY THE ENGINEER TO RESTRIKE A PRODUCTION PILE. THE RESTRIKE OF THE PRODUCTION PILE SHALL BE PAID SEPARATELY UNDER
- 7. THE DEPARTMENT RESERVES THE RIGHT TO PERFORM DYNAMIC TESTING OF RESTRIKES.

PILE INSTALLATION SEQUENCE:

1. DRIVE PILES PRIOR TO MSE WALL INSTALLATION.

ITEM NO. 619501.

- 2. PLACE OVER EACH PILE, THE CORRUGATED GALVANIZED STEEL PIPE OF SIZE BASED ON THE PILE TYPE DRIVEN. ENSURE THE CORRUGATED GALVANZIED PIPE DOES NOT EXPERIENCE BUCKLING OR DISTORTION DURING THE PLACEMENT AND COMPACTION OF THE BACKFILL.
- 3. PLACE SPACERS BETWEEN THE PILE AND THE CORRUGATED GALVANIZED STEEL PIPE TO PREVENT THE CORRUGATED GALVANIZED STEEL PIPE FROM COMING INTO CONTACT WITH THE PILE DURING BACKFILLING OF THE WALL.
- 4. EXTEND CORRUGATED GALVANIZED STEEL PIPE FROM THE BOTTOM OF THE MSE WALL LEVELING PAD ELEVATION TO THE BOTTOM OF THE BRIDGE STUB ABUTMENT PILECAP.
- 5. ENSURE NO CONSTRUCTION OR OTHER DEBRIS FALLS INTO THE VOID BETWEEN THE CORRUGATED GALVANIZED STEEL PIPE AND THE PILE.
- 6. FILL THE CORRUGATED GALVANIZED STEEL PIPE LOOSELY WITH FINE AGGREGATE (SEE DELDOT STANDARD SPECIFICATIONS, SECTION 804). AT THE CONTRACTOR'S OPTION, PLACE FINE AGGREGATE BEFORE OR AFTER THE MSE WALL CONSTRUCTION IS COMPLETED.
- 7. ALTERNATE PILE ONLY PLACE REINFORCEMENT CAGE IN 14" DIAMETER STEEL PIPE PILE AND FILL VOID REMAINING IN PILE WITH CLASS A CONCRETE TO THE PLUG FORMED AT THE DRIVEN END.

ONTRACT	BRIDGE NO.	1_486			SHEET NO.
00811301				VOUT	268
COUNTY	DESIGNED BY:	JLW	ABUIMENI PILE LA	YUUI	TOTAL SHTS.
/ CASTLE	CHECKED BY:	JPF			850

BR1-486-05



$\sum_{i=1}^{n}$					
P 2"	STE 1. REH TO "61 INS' INCI OR	EL H-PILE NFORCEMENT STEEL ITEMS "618062 - 8065 - FURNISH S TALLATION OF REIN DENTAL TO ITEMS "619045 - INSTAL	(RECOMMENDED (MATERIAL) FOR H-PILES IS FURNISH STEEL H PILE, HP1 STEEL TEST H PILES, HP14x7 FORCEMENT STEEL FOR H F "618042 - INSTALL STEEL H L STEEL TEST H PILES, HP14) NOTE S INCIDENTA 4x73" OR 73". PILES IS PILE, HP14 4x73".	<u>S:</u> L
LE SPLI scale 2' 3	CE				
RNING: ING OVERHEAD BRIDGE CONSTRU SHUT OFF. AT EXERCISE EXT CONTRACTORS C TAR RADIUS OF HORIZONTALLY R LINES. DURING ATION TO VERIF AND TO MAINT	HIGH VOLTAGI JCTION. AT NO ALL TIMES L REME CAUTIO RANES AND C TWENTY (20. FOR BLOWOU G CONSTRUCT Y THE EXACT AIN AND ENFO	E POWER LINES AND TIME WILL THE P DURING CONSTRUCT N DURING ALL CON OTHER HEAVY EQU OFEET PLUS AN A T FROM THE OVER TON OPERATIONS, I LOCATION OF THE ORCE CLEARANCE	RE IN THE VICINITY OF OWER BE PERMITTED ION, THE CONTRACTOR ISTRUCTION OPERATIONS. IPMENT SHALL MAINTAIN DDITIONAL TWENTY (20) HEAD HIGH VOLTAGE T IS THE CONTRACTORS I POWER LINES IN THE REQUIREMENTS.	BR1-	486-06
CONTRACT	BRIDGE NO.	1–486			SHEET NO.
T200811301	DESIGNED BY: JL	W	PILE SPLICE A		269
NEW CASTLE	CHECKED BY: JF	PF		IAILƏ	850
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<u>PIPE PILE (ALTERNATE)NOTES:</u>

1. BACK-UP PLATE TO BE CUT FROM SAME PILE SIZE AS BEING SPLICED. CUT AND BEND TO FIT INSIDE DIAMETER OF PILE.

2. CORRUGATED PIPE NOT SHOWN IN PIPE PILE REINFORCEMENT AND SPLICE DETAILS FOR CLARITY.

 \downarrow (TYP)

- 3. CLASS A CEMENT CONCRETE (MATERIAL) FOR FILLING VOID IN ALTERNATE PILES IS INCIDENTAL TO ITEMS "618552 -FURNISH PIPE PILE, SCHEDULE 40, OPEN END, 14" OR "618557 - FURNISH TEST PIPE PILE, SCHEDULE 40, OPEN END, 14". INSTALLATION OF CLASS A CEMENT CONCRETE FOR FILLING VOID IN ALTERNATE PILES IS INCIDENTAL TO ITEMS "619540 - INSTALL PIPE PILE SCHEDULE 40, OPEN END, 14" OR "619558 -INSTALL TEST PIPE PILE, SCHEDULE 40, OPEN END, 14".
- 4. REINFORCEMENT STEEL FOR ALTERNATE PILES (MATERIAL) IS INCIDENTAL TO ITEMS" 618552 - FURNISH PIPE PILE, SCHEDULE 40, OPEN END, 14" OR "618557 - FURNISH TEST PIPE PILE, SCHEDULE 40, OPEN END, 14". INSTALLATION OF REINFORCEMENT STEEL OR ALTERNATE PILES IS INCIDENTAL TO ITEMS "619540 - INSTALL PIPE PILE SCHEDULE 40, OPEN END, 14" OR "619558 - INSTALL TEST PIPE PILE, SCHEDULE 40, OPEN END, 14".



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	TO LEVELS ROAD	NF

S			CONTRACT	BRIDGE NO.	1_486		SHEET NO.
		MARYLAND STATE LINE TO LEVELS ROAD	T200811301		1 400	ABUTMENT 1 MSE WALL PLAN AND ELEVATION	274
			COUNTY	DESIGNED BY:	JLW		TOTAL SHTS.
			NEW CASTLE	CHECKED BY:	JPF		850

MSE WALL NOTES:

1. CONCRETE:

CONRETE DESIGN SHALL BE PERFORMED USING LOAD AND RESISTANCE FACTOR DESIGN METHOD.

LEVELING PAD CONCRETE SHALL BE 3000 PSI AND MIX REQUIREMENTS SHALL CONFORM TO SECTION 812 OF THE DELAWARE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS.

2. CHAMFERS:

ALL EXPOSED CORNERS OF CONCRETE SHALL BE CHAMFERED WITH 3/4" x 3/4" MILLED CHAMFER STRIPS. UNLESS OTHERWISE NOTED.

3. REINFORCEMENT STEEL:

REINFORCEMENT STEEL SHALL CONFORM TO AASHTO M31 (ASTM A 615), GRADE 60. ALL SPLICES, NOT SHOWN, SHALL BE LAPPED AS PER THE LRFD BRIDGE DESIGN SPECIFICATIONS. MINIMUM COVER FOR ANY BAR SHALL BE 2" UNLESS OTHERWISE NOTED.

FOR TIES AND STIRRUPS, STANDARD ACI BENDING TOLERANCES ARE MODIFIED TO PLUS(+) ZERO INCHES, MINUS(-) NORMAL ACI BENDING TOLERANCE.

ONLY GRADE 60 CAN BE USED ON THIS PROJECT.

ALL KEYS ARE NORMAL SIZE.

THE MSE WALL MANUFACTURER MAY SUBSTITUTE ALTERNATE REINFORCING CONFIGURATIONS AND SUBMIT FOR APPROVAL.

4. ROADWAY LIMITS:

THE PROPRIETARY WALL MANUFACTURER SHALL ASSURE THAT PROPOSED PROPRIETARY WALL COMPONENTS ARE POSITIONED SUCH THAT THE DESIGNATED ROADWAY LIMITS ARE NOT ENCROACHED UPON.

5. COORDINATION:

CONTRACTOR AND PROPRIETARY WALL MANUFACTURER SHALL COORDINATE LOCATION OF MSE STRUCTURE UNDERDRAINS WITH LOCATIONS OF PROPRIETARY WALL TIE BACK SYSTEM.

ALL MSE WALL PLANS AND SHOP DRAWINGS MUST SHOW PILE LOCATION AND ARRANGEMENT OF MSE WALL SOIL REINFORCEMENT ELEMENTS TO AVOID INTERFERENCE WITH PILES. CUTTING SOIL REINFORCING ELEMENTS TO AVOID INTERFERENCE WITH PILES IS NOT PERMITTED.

6. SERVICE LIFE:

ALL RETAINING WALL COMPONENTS SHALL BE DESIGNED FOR A MINIMUM SERVICE LIFE OF 100 YEARS.

7. WALL SYSTEM

ONLY ONE MSE WALL SYSTEM MAY BE USED FOR THIS CONTRACT.

8. EXCAVATION AND BACKFILL:

EXCAVATION REQUIRED FOR INSTALLATION OF MSE WALL SYSTEMS SHALL BE INCIDENTAL TO ITEM "602772 MECHANICALLY STABILIZED EARTH WALLS". BACKFILL SPACES EXCAVATED FOR MSE WALL AND NOT OCCUPIED BY MSE WALL COMPONENTS OR SPECIFIED BACKFILL, WITH TYPE F MATERIAL.

9. MSE WALL BACKFILL:

MSE WALL BACKFILL SHALL CONSIST OF SELECT BACKFILL, IN ACCORDANCE WITH SPECIAL PROVISION "602772 MECHANICALLY STABILIZED EARTH WALLS".

10. FOUNDATION

IF DIRECTED BY THE ENGINEER, REMOVE UNSUITABLE MATERIAL BELOW BOTTOM OF MSE WALL FILL, PLACE GEOTEXTILE AT THE BOTTOM OF THE EXCAVATION AND FILL WITH PROPERLY COMPACTED TYPE B BORROW. EXCAVATION FOR THIS ITEM TO BE PAID FOR UNDER ITEM "207000 - EXCAVATION AND BACKFILLING FOR STRUCTURES" AND FILL TO BE PAID FOR UNDER ITEM "209002 - BORROW, TYPE B". GEOTEXTILE IS TO BE IN ACCORDANCE WITH SECTION 827.06 OF THE DELDOT SPECIFICATIONS AND IS INCIDENTAL TO ITEM "209002 - BORROW, TYPE B".

11. MSE WALL AESTHETIC TREATMENT:

THE COMPONENTS OF THE MSE WALLS SHALL HAVE THE AESTHETIC TREATMENT AS IDENTIFIED IN THE SPECIAL PROVISION FOR ITEM 602772.

BR1-486-11

REFERENCE:

• FOR GENERAL PLAN, SEE SHEET BR1-486-01

- FOR PROJECT NOTES, SEE SHEET BR1-486-03
- FOR GEOMETRIC LAYOUT, SEE SHEET BR1-486-04
- FOR ABUTMENT 1 DETAILS, SEE SHEET BR1-486-07
- FOR MSE WALL SECTION, SEE SHEET BR1-486-13

- FOR ADDITIONAL WATERPROOFING AND SYROFOAM DETAILS BETWEEN THE ABUTMENT AND END DIAPHRAGMS, SEE

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WARNING:

EXISTING OVERHEAD HIGH VOLTAGE POWER LINES ARE IN THE VICINITY OF THE BRIDGE CONSTRUCTION. AT NO TIME WILL THE POWER BE PERMITTED TO BE SHUT OFF. AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING ALL CONSTRUCTION OPERATIONS. THE CONTRACTORS CRANES AND OTHER HEAVY EQUIPMENT SHALL MAINTAIN A CLEAR RADIUS OF TWENTY (20) FEET PLUS AN ADDITIONAL TWENTY (20) FEET HORIZONTALLY FOR BLOWOUT FROM THE OVERHEAD HIGH VOLTAGE POWER LINES. DURING CONSTRUCTION OPERATIONS, IT IS THE CONTRACTORS OBLIGATION TO VERIFY THE EXACT LOCATION OF THE POWER LINES IN THE FIELD AND TO MAINTAIN AND ENFORCE CLEARANCE REQUIREMENTS.

				BR1–4	86–12
ONTRACT	BRIDGE NO.	1–486			SHEET NO.
00811301			ABUTMENT 2 MSE	WALL	275
COUNTY	DESIGNED BY:	JLW	PLAN AND ELEVA	ΓΙΟΝ	TOTAL SHTS.
/ CASTLE	CHECKED BY:	JPF			850

- FOR ADDITIONAL WATERPROOFING AND SYROFOAM DETAILS BETWEEN THE ABUTMENT AND END DIAPHRAGMS, SEE

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		MARYLAND STATE LINE	COUNTY
	-	IO LEVELS ROAD	NEW CASTLE

NOTES:

- 1. PLACE 1" THICK STYROFOAM BOARD AT THE FRONT FACE OF THE MSE WALL ADJACENT TO THE 42 INCH ROADWAY BARRIER, ITEM 720626 (ROADWAY ITEM). STYROFOAM BOARD SHALL BE INCIDENTAL TO ITEM 720626 (ROADWAY ITEM). POSITION FRONT EDGE OF ROADWAY BARRIER TO MAINTAIN A 14 FOOT SHOULDER. CAST THE ROADWAY BARRIER AGAINST THE STYROFOAM BOARD WITH THE WIDTH OF THE BARRIER VARYING OVER THE LENGTH OF THE MSE WALL.
- 2. LIMITS OF TOPSOIL TO BE REMOVED UNDER ITEM 202000 (ROADWAY ITEM) (APPROXIMATE DEPTH=8").
- 3.1" THICK STYROFOAM. SEE SHEET BR1-486-18 FOR FURTHER DETAILS.
- 4. PAYMENT FOR 12" MIN GRADED AGGREGATE BASE COURSE, TYPE B BENEATH THE APPROACH SLAB SHALL BE INCIDENTAL TO ITEM "602014 - PORTLAND CEMENT CONCRETE MASONRY, APPROACH SLAB, CLASS D".
- 5. HIGH DENSITY POLYETHYLENE (HDPE):

PHYSICAL REQUIREMENTS: *DENSITY: 59 POUNDS PER CUBIC FOOT (MINIMUM), ASTM D 1505 *UV STABILIZATION: 2% CARBON BLACK, ASTM D1603 *SHEET THICKNESS: 30 MILS (MINIMUM), ASTM D1599 *TEAR RESISTANCE: 22 POUNDS, ASTM D1004 *RESISTANCE SOIL BURIAL: 90% RETAINED STRENGTH, ASTM D3083 *MINIMUM ROLL WIDTH: 20 FEET (MINIMUM)

CHECKED BY: JPF

EXISTING OVERHEAD HIGH VOLTAGE POWER LINES ARE IN THE VICINITY OF THE BRIDGE CONSTRUCTION. AT NO TIME WILL THE POWER BE PERMITTED TO BE SHUT OFF. AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION DURING ALL CONSTRUCTION OPERATIONS. THE CONTRACTORS CRANES AND OTHER HEAVY EQUIPMENT SHALL MAINTAIN A CLEAR RADIUS OF TWENTY (20) FEET PLUS AN ADDITIONAL TWENTY (20) FEET HORIZONTALLY FOR BLOWOUT FROM THE OVERHEAD HIGH VOLTAGE POWER LINES. DURING CONSTRUCTION OPERATIONS, IT IS THE CONTRACTORS OBLIGATION TO VERIFY THE EXACT LOCATION OF THE POWER LINES IN THE FIELD AND TO MAINTAIN AND ENFORCE CLEARANCE REQUIREMENTS.

 BRIDGE NO.	1–486	
 DESIGNED BY:	JLW	MSE WALL DETAILS

BR1–4	86–13
	SHEET NO

SHEET	NO.
27	'6
TOTAL	SHTS.

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	MARYLAND STATE LINE
	TO LEVELS BOAD

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BEARING PAD DATA (50 DUROMETER)														
LOCATION	TYPE	LENGTH	WIDTH	THICKNESS	N	N+ 1	SHAP	E FACTOR	P (S <mark>C</mark>	AD AREA . INCHES)	NO. OF BRGS REQUIRED	BR	0.0F TE GS REQU	ST I <mark>RED</mark>
ABUTMENT 1	EXP	9″	23″	2.1034″	3	4	8. 625	12.938		207	5			
PIER	FIX	9″	23″	2.1034″	3	4	8. <mark>62</mark> 5	12.9 <mark>38</mark>		207	10		1	
ABUTMENT 2	EXP	9″	23″	2. 1034″	3	4	8. <mark>62</mark> 5	12.9 <mark>38</mark>		207	5			
							L							

		BEAM	DAP	TABLE			
			DAP TH	ICKNESS	5		
BEAM	AE	BUTMENT	1	ABUTMENT 2			
	T 1	T2	<i>T3</i>	T 1	Τ2	<i>T3</i>	
1	1/4″	3/8″	7/16″	1/4″	3/8″	7/16″	
2	1/4″	3/8″	7/16″	1/4″	3/8″	7/16″	
3	1/4″	3/8″	7/16″	1/4″	3/8″	7/16″	
4	1/4″	3/8″	7/16″	1/4″	3/8″	7/16″	
5	1/4″	3/8″	7/16″	1/4″	3/8″	7/16″	

PROVIDE BEAM DAPPING AT END OF BEAM AT ABUTMENT 1 AND ABUTMENT 2, DAPPING NOT REQUIRED FOR BEAM ENDS AT THE PIER.

MAINTAIN MINIMUM COVER OF 11/2"ON PRESTRESSING STRANDS IN DAP AREA.

MAINTAIN MINIMUM COVER OF 1" ON STIRRUPS IN DAP AREA.

. CHAMFER DAP AT 45°

5. MINIMUM DAP DEPTH 1/4".

6. IF COVER CAN NOT BE MAINTAINED, RAISE STRAND PATTERN IN INCREMENTS OF 1/2".

REFERENCE:

• FOR PROJECT NOTES, SEE SHEET BR1-486-02

- FOR FRAMING PLAN, SEE SHEET BR1-486-17
- FOR BEAM DETAILS, SEE SHEET BR1-486-20

WARNI EXISTING OVE THE BRIDGE TO BE SHUT SHALL EXERC THE CONTRAC A CLEAR RAI FEET HORIZO POWER LINES OBLIGATION FIELD AND 7

CONTRACT	BRIDGE NO.	1–486		SHEET NO.
T200811301				279
COUNTY	DESIGNED BY: JLW		BEARING DETAILS	TOTAL SHTS.
NEW CASTLE	CHECKED BY:	JPF		850

US 301 MARYLAND STATE LINE TO LEVELS ROAD

ELASTOMERIC BEARING PAD NOTES:

- 1. MANUFACTURE ALL BEARINGS IN ACCORDANCE WITH THESE PLANS AND DELDOT SPECIFICATIONS.
- 2. MEET THE MATERIAL SPECIFICATION FOR ELASTOMERIC BEARINGS REQUIREMENTS OF CURRENT AASHTO (M-251-92 STANDARD SPECIFICATIONS BEARINGS) AS LISTED UNDER SUBSECTION "MATERIALS AND TESTING"
- 3. ALL BEARING PADS ARE TO BE MOLDED TO DESIGN DIMENSIONS. CUTTING TO SIZE AFTER FABRICATION IS PROHIBITED.
- 4. HOLES ARE NOT PERMITTED IN ELASTOMERIC BEARINGS.
- 5. PROVIDE NEOPRENE HARDNESS OF 50 DUROMETER (5 +/-)
- 6. PROVIDE INTERNAL LAMINATES CONFORMING TO AASHTO M183.
- 7. SMOOTH CUT AND DEBURR METAL SHIMS.
- 8. GRIT BLAST AND DECREASE METAL SHIMS.
- 9. VULCANIZE PATCH PIN GROOVES.
- 10. PROVIDE A ROUGH TEXTURE TO CONCRETE BEARING SURFACES. DO NOT APPLY EPOXY COATING TO THE BEARING SURFACES WITHIN 2" OF THE BEARING PAD.
- 11. BEARINGS SHALL BE PLACED NORMAL TO THE CENTERLINE OF GIRDER.
- 12. THE MAXIMUM DESIGN LOAD FOR THE BEARINGS IS AS FOLLOWS: EXPANSION BEARINGS = 176.29 KIPS FIXED BEARINGS = 172.32 KIPS

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'-0″ (© PIER TO	🕼 BRGS ABUT	2)		>	
70' -10" (C/C E	BRGS SPAN 2)			Δ	<i>6″</i>
72'-1" (001	<u> </u>		_€ BRG	S ABUT 2 (EXP)	
	/ 7 /			================== 	
	0 		2 END D	2' -6"	
			STA. 1012+0	05.97	34' -5" BEANS
			STA1012+00		7 1/4" = ULB TEE
	4		6" CHAM	FER	<u>= 32/45 B</u>
	<i>0</i>				5-PCE
RNING: NG OVERHEAD I BRIDGE CONSTRU SHUT OFF. AT EXERCISE EXT CONTRACTORS CA CAR RADIUS OF HORIZONTALLY I AND TO WAINTA	HIGH VOLTAG JCTION. AT N ALL TIMES I REME CAUTIC RANES AND TWENTY (20 FOR BLOWOU G CONSTRUCT Y THE EXACT AIN AND ENF	E POWER LINES AR D TIME WILL THE PO DURING CONSTRUCTION DURING ALL CONS OTHER HEAVY EQUID D FEET PLUS AN AL T FROM THE OVERF TION OPERATIONS, IT T LOCATION OF THE ORCE CLEARANCE F	E IN THE VICINITY OF WER BE PERMITTED ON, THE CONTRACTOR STRUCTION OPERATIONS PMENT SHALL MAINTAIN ODITIONAL TWENTY (20) EAD HIGH VOLTAGE IS THE CONTRACTORS POWER LINES IN THE PEQUIREMENTS.	, ,	
CONTRACT				' BR1_	486-17
T200811301	BRIDGE NO.	1–486	FR 1 5 5 1 5 4		280
COUNTY	DESIGNED BY: JI	_W	FRAMING	PLAN	TOTAL SHTS.
NEW CASTLE	CHECKED BY: JI	י⊦			850

	• FOR REINFORCEMENT	BAR SCHEDULE, SEE	SHEETS BR1-486-26,27	FIELD ANL	
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			ND STATE LINE		
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4. GIRDER LENGTHS IN CASTING BED SHALL BE DETERMINED AND DEPICTED IN SHOP DRAWINGS TO COMPENSATE FOR GRADE SHORTENING DUE TO PRESTRESS EFFECT.

OF 1/4" AND SCRUBBED TRANSVERSELY WITH A COARSE WIRE BRUSH TO REMOVE

THAN 90 DAYS. IF TIME IS NOT SUFFICIENT, CONTRACTOR MUST SUBMIT DESIGN FOR APPROVAL SHOWING STRUCTURAL DESIGN CALCULATIONS TO ACCOUNT FOR RESTRAINT MOMENTS. PIER DIAPHRAGM CAN NOT BE POURED UNTIL DECK POURS

POINTS AND VARY HAUNCH THICKNESS TO COMPENSATE FOR ANY INACCURACIES IN THE ACTUAL BEAM CAMBER TO ACHIEVE FINAL FINISHED DECK ELEVATIONS AS

AND MAY VARY WITH ACTUAL CONCRETE STRENGTH (AGE). VARIABLE PRESTRESSING

5. CAST BEAMS SO THAT THE END FACES WILL BE TRULY VERTICAL WHEN PLACED IN

STRANDS. STRAND DIAMETER = 0.52 INCH, STRAND AREA = 0.167 SQUARE INCHES.								
			BR1–4	86–20				
BRIDGE NO.	1–486			SHEET NO.				
			-	283				
DESIGNED BY:	JLW	BEAM DETAILS		TOTAL SHTS.				
CHECKED BY:	JPF			850				
	STRAND DIA BRIDGE NO. DESIGNED BY: CHECKED BY:	STRAND DIAMETER = 0.52 INCH, BRIDGE NO. 1-486 DESIGNED BY: JLW CHECKED BY: JPF	STRAND DIAMETER = 0.52 INCH, STRAND AREA = 0.167 SQUA BRIDGE NO. 1-486 DESIGNED BY: JLW BEAM DETAILS CHECKED BY: JPF	STRAND DIAMETER = 0.52 INCH, STRAND AREA = 0.167 SQUARE INCHE BRIDGE NO. 1-486 DESIGNED BY: JLW CHECKED BY: JPF				

F	INISHED	GRADE	ELEVA	FIONS	
STATION	(A)	<i>B</i>	PGA	\bigcirc	D
* 1010+58 . 11					97.08
*1010+59.22				97.38	
* 1010+60 . 96			97.63		
*1010+62.70		97.43			
* 1010+63 . 81	97.17				
1010+61.97			97.64	97.42	97.14
1010+69.17	97.25	97.53	<i>97.75</i>	97.53	97.23
1010+76 . 37	97.34	97.62	<i>97.8</i> 4	97.62	<i>97. 3</i> 4
1010+83.57	97.43	97.71	<i>97.93</i>	97.71	97.4.
1010+90.77	97.50	97.78	<i>98.00</i>	97.78	97.50
1010+97.97	97.56	97.84	98.06	97.84	97.5
1011+05.17	97.61	97.89	98.11	97.89	97.6
1011+12.37	97.65	97.93	<i>98.15</i>	97.93	97.6
1011+19.57	97.67	97.95	<i>98.17</i>	97.95	97.6
1011+26.77	97.69	97.97	98.19	97.97	97.6
1011+33.97	97.69	97.97	98.19	97.97	97.6
1011+41.17	97.68	97.96	98.18	97.96	97.6
1011+48.37	97.66	97.94	98.16	97.94	97.6
1011+55.57	97.63	97.91	98.13	97.91	97.6
1011+62.77	97.59	97.87	98.09	97.87	97.5
1011+69.97	97.53	97.81	98.03	97.81	97.5
1011+77.17	97.47	97.75	97.97	97.75	97.4
1011+84.37	97.39	97.67	97.89	97.67	97.3
1011+91.57	97.30	97.58	97.80	97.58	97.30
1011+98.77	97.20	97.48	97.70	97.48	97.2
1012+05.97	97.09	97.37	97.59		
* 1012+04 . 13					97.12
* 1012+05.24				97.38	
<u>*1012+06.98</u>			97.57		
*1012+ 08.72		97. 33			
*1 012+09.83	97.03				

(A) DESIGNATES NORTH GUTTERLINE

(B) DESIGNATES EDGE OF NORTH LANE PGA DESIGNATES PROFILE GRADE ALIGNMENT

© DESIGNATES EDGE OF SOUTH LANE

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	Ę	В	RG	ABUT	1	97.2	2	97.	49	97.	64	97.	45	97.	14
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			C). 2		97.4	1	97. (<i>59</i>	97.	84	97.	65	97.	35
			C). 3		97.4	9	97. 2	77	97.	92	97.	74	97.	43
	1		C). 4		97.5	6	97.	84	97.	99	97.	81	97.	51
	A N		C). 5		97.6	2	97. :	90	98.	06	97.	87	97.	57
	SP		C). 6		97.6	6	97. :	94	98.	10	97.	93	97.	63
			C). 7		97.6	9	97. :	98	98.	14	97.	97	97.	67
٥			C). 8		97.7	2	98. (20	98.	17	98.	00	97.	70
<u> </u>			C). 9		97.7	'3	98. (22	98.	19	98.	01	97.	72
	(Ė.	BRG	PIEF	7	97.7	'3	98. (02	98.	19	98.	02	97.	73
			(). 1		97.7	71	98.	01	98.	18	98.	01	97.	72
			C). 2		97.6	9	97. :	98	98.	16	97.	99	97.	71
			C). 3		97.6	5	97. :	95	98.	13	97.	96	97.	68
			C). 4		97.6	0	97. :	90	98.	08	97.	92	97.	64
	≥ ▼		C	D. 5		97.5	55	97. 0	85	98.	03	97.	87	97.	59
	SP		C). 6		97.4	8	97.	78	97.	96	97.	81	97.	53
			C). 7		97.3	9	97.	70	97.	89	97.	73	97.	46
			C). 8		97.3	50	97.	61	97.	80	97.	65	97.	37
			C). 9		97.2	20	97.	51	97.	70	97.	55	97.	28
	¢	В	RG .	ABUT	2	97.0	9	97	40	97.	59	97.	44	97.	17

CONSTR. JT.

V-NOTCH

REFERENCE:

• FOR PROJECT NOTES, SEE SHEET BR1-486-03

• FOR FRAMING PLAN, SEE SHEET BR1-486-17 • FOR BEAM DETAILS, SEE SHEET BR1-486-20

• FOR CONDUIT DETAILS, SEE SHEET BR1-486-22

• FOR REINFORCEMENT BAR SCHEDULE, SEE

ARINGS, NG LOCATIOI	vs.	SHEET BR1-486-2	26,27	BR1-4	86–21
ONTRACT	BRIDGE NO.	1-486			SHEET NO.
00811301					284
COUNTY	DESIGNED BY:	SIGNED BY: JLW DECK PLAN AND D		ETAILS	TOTAL SHTS.
/ CASTLE	CHECKED BY:	JPF			850

	US	30	1		
ARYL	AND	ST	ATE	LINE	
TO	LEVE	LS	ROA	ND	

• FOR	WATERSTOP	DETAIL,	SEE	SHEET	BR1-486-1

US 301	T000044704	BRIDGE NO.	
	1200811301	DESIGNED BY.	II W/
ANTLAND STATE LINE	COUNTY	DESIGNED BT.	
TO LEVELS ROAD	NEW CASTLE	CHECKED BY:	JPF

	TABLE	OF APPROACH SI	_AB ELE	VATIONS	
TATION	LEFT GUTTER	OUTSIDE EDGE LEFT LANE & OPTIONAL CONSTR. JOINT	PG	OUTSIDE EDGE RIGHT LANE & OPTIONAL CONSTR. JOINT	RIGHT GUTTER
0+37.83	96.70	<i>96.98</i>	97.20	96.98	96.70
0+42.83	96.80	97.08	97.30	97.08	96.80
0+47.83	96.90	97.18	97.40	97.18	96.90
0+52.83	96.99	97.27	97.49	97.27	96.99
0+58.06			97.58		97.08
0+59.17			97.60	97.38	
0+60.91			97.63		
0+62.65		97.43	97.65		
0+63.76	97.17		97.67		
2+04.17			97 . 62		97.12
2+05.28			97.60	97.38	
2+07.02			97.57		
2+08.76		97.32	97.54		
2+09.87	97.03		97.53		
2+15.10	96.93	97.21	<i>97.43</i>	97.21	96.93
2+20.10	96.84	97.12	97.34	97.12	96.84
2+25.10	96.74	97.02	97.24	97.02	96.74
2+30.10	96.63	96.91	97.13	96.91	96.63

Ν	G	0

VERHEAD HIGH VOLTAGE POWER LINES ARE IN THE VICINITY OF E CONSTRUCTION. AT NO TIME WILL THE POWER BE PERMITTED JT OFF. AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR RCISE EXTREME CAUTION DURING ALL CONSTRUCTION OPERATIONS. RACTORS CRANES AND OTHER HEAVY EQUIPMENT SHALL MAINTAIN RADIUS OF TWENTY (20) FEET PLUS AN ADDITIONAL TWENTY (20) ZONTALLY FOR BLOWOUT FROM THE OVERHEAD HIGH VOLTAGE VES. DURING CONSTRUCTION OPERATIONS, IT IS THE CONTRACTORS TO VERIFY THE EXACT LOCATION OF THE POWER LINES IN THE TO MAINTAIN AND ENFORCE CLEARANCE REQUIREMENTS. BR1-486-24	CONTRACT	BRIDGE NO.	1 400			SHEET NO.
VERHEAD HIGH VOLTAGE POWER LINES ARE IN THE VICINITY OF E CONSTRUCTION. AT NO TIME WILL THE POWER BE PERMITTED JT OFF. AT ALL TIMES DURING CONSTRUCTION, THE CONTRACTOR RCISE EXTREME CAUTION DURING ALL CONSTRUCTION OPERATIONS. RACTORS CRANES AND OTHER HEAVY EQUIPMENT SHALL MAINTAIN RADIUS OF TWENTY (20) FEET PLUS AN ADDITIONAL TWENTY (20) ZONTALLY FOR BLOWOUT FROM THE OVERHEAD HIGH VOLTAGE VES. DURING CONSTRUCTION OPERATIONS, IT IS THE CONTRACTORS TO VERIFY THE EXACT LOCATION OF THE POWER LINES IN THE			BR1-4	86–24		
	IVERNEAD E CONSTRU JT OFF AT RCISE EXT RACTORS C RADIUS OF ZONTALLY IES DURIN I TO VERIF	HIGH VOLTA JCTION. AT I ALL TIMES REME CAUT RANES AND TWENTY (2 FOR BLOWO G CONSTRUC Y THE EXAC				

850

		SPECIFICATION	'S					
QTY.	SIZE	LENGTH	MARK	TYPE	A	В	С	D
								PARA
440	5	7′-11″	PA501E	H2	2'-0"	8 3/4"	2'-9"	5 1/4"
88	5	7′-11″	PA502E	H2	2'-0"	8 3/4"	2'-9"	5 1/4"
56	5	7'-7" TO 10'-6"	PA503E	H2	1'-5" TO 3'-3"	8 3/4"	3'-0" TO 4'-5"	5 1/4" TO 6 1/4
16	7	60'-0"	PA701E	STR				
8	7	31'-6"	PA702E	STR				
8	7	18'-8" TO 16'-8"	PA703E	STR				
8	7	24'-10" TO 22'-10"	PA704E	STR				
8	7	8'-7"	PA705E	STR				
16	8	60'-0"	PA801F	STR				
8	8	.31'-6"	PA802F	STR				
8	8	19'-8"	PA80.3F	STR				
8	8	25'-10"	PA804E	STR				
	1							DEC
84	5	52'-7"	S501E	STR				
80	5	50′-7″	S502E	STR				
440	5	6'-6"	S503E	H1	2'-0"	7 1/ <i>2</i> ″	1′-2″	7 1/2"
221	5	40'-2"	S504E	1	7″	39'-0"		
80	6	46'-6"	S601E	STR				
76	6	48'-6"	S602E	STR				
221	6	39'-0"	S603E	STR				
442	6	8'-6"	S604E	1	8″	7"-10"		
61	5	51-711	\$505E	CTD				DIAPHR,
6	5	5'_8"		17		1/_0//	<u> </u>	1′_0″
48	5	5'-3"		STR		10		10
8	5	5'-0"		STR				
12	5	1'-0" TO 1'-6"	S509E	STR		_		
10	5	2'-6"	S510E	STR				
144	5	3'-7"	S511E	17		1'-6"	7"	1'-6"
56	5	8'-9"	S <mark>512E</mark>	17		<u>3'-</u> 3''	2'-3"	3'-3"
20	5	5'-3"	S <mark>513E</mark>	17		<u>1′-6″</u>	2-3"	1′-6″
40	5	4'-0"	S514E	17		1'-8"	8″	1′-8″
32	5	7′-6″	S515E	<u>S6</u>	1′-11	<u>2'-2''</u>	1′-11″	1'-6"
<i>96</i>	5	5'-3"	S516E	STR				
50	5	4'-2"	S517E	2	3′-0″	1′-2″		
<i>2</i> 4	5	2'-3"	S518E	STR				
8	5	5′-0″	S519E	STR				
50	5	4'-3"	S520E	17		1′-2″	1′ –11″	1'-2"
60	5	7'-2"	S521E	17		3'-0"	1'-2"	3'-0"
28	5	7'-2"	S522E	<u>S6</u>	1'-11"	2'-2"	1′-6″	1'-6"
12	5	39'-0"	S524E	STR				
70		<u> </u>	00055	OTD				
52	6	5'-3"	SOUSE	SIK				
16	10	Z/_ 0//		СТД				
17)	1 11 1	<u>ו ט"ס</u> " ו		אור ו				

ADDENDUMS / REVISION

BAR BENDING DETAILS

110 004	(
US 301	T2
MARYLAND STATE LINE	
TO LEVELS ROAD	NE
	US 301 MARYLAND STATE LINE TO LEVELS ROAD

- 7. UNLESS OTHERWISE NOTED, DIAMETER "D" IS THE SAME FOR ALL BENDS AND HOOKS ON A BAR (EXCEPT FOR BEND TYPES 11 AND 13).
- 8. WHERE SLOPE DIFFERS FROM 45° OFFSET, "H" AND "K" MUST BE SHOWN.
- 9. WHERE BARS ARE TO BE BENT MORE ACCURATELY THAN STANDARD BENDING TOLERANCES, BENDING DIMENSIONS REQUIRING CLOSER FABRICATION SHOULD HAVE LIMITS INDICATED.
- 10. FOR RECOMMENDED DIAMETER "D", OF BENDS, HOOKS, ETC., REFER TO TABLE ABOVE, 'CRSI' OR 'ACI' TABLES WHERE APPLICABLE AND REQUIRED.
- 11. TYPE S1-S6, S11, T1-T3 AND T6-T9 APPLICABLE TO BAR SIZES #3 THROUGH #8. **BR1-486-26**

CONTRACT	BRIDGE NO.	1-486			SHEET NO.
200811301			REINFORCEMENT	BAR	289
COUNTY	DESIGNED BY:	JLW	SCHEDULE (SHEET 1	I OF 2)	TOTAL SHTS.
W CASTLE	CHECKED BY:	CHECKED BY: JPF		-	850

		SPECIFICATIO	NS						
QTY.	SIZE	LENGTH	MARK	TYPE	A	В	С	D	
0		70/ 0//		CTD	1		i	P_{i}	$\frac{ ER }{1}$
8 9	5	38°-0°	POULE D502E	5/K 17		<i>Ω′_1″</i>	2'_1" TO 3'_0"	 ?/_1//	
0	5	0-0 10 / -2 7'_ <i>\</i> "	D507E	17		∠ [−] / 2′_1″	<u>Z-4 10 3-0</u> <u>z'-2''</u>	∠ [−] I 2′_1″	+
4	5	/ -4 8′_3″	PJUJE D501/F	1/		<u>Z -1</u> 5′_0″	<u> </u>	2 -1 1'_6"	+
4	5	0-J 5'_8"		10		<u> </u>	7'_8'	1'-0 1'-0"	<u> </u>
	5	5'-8"		17		1'-8"	2'-4"	1'-8"	+
15	5	7'-0"		17		1'-8"	.3'-8"	1'-8"	
152	5	4'-10"	P508E	1	7″	3'-8"			
76	5	6'-10"	P509E	1	7"	5'-8"			
116	6	11'-8"	P601E	17		4'-6"	2'-8"	4'-6"	
100	6	10′-11″	P602E	H4	8″	5′-8″	1'-6"		
100	6	12'-8"	P603E	<i>S9</i>	8″	3′-10″	3'-8"	3′-10″	
18	8	41'-6" TO 43'-6"	P801E	STR					
<i>3</i> 6	8	16'-0"	P802E	8	6′-10″	9'-2"			
24	9	38'-0"	P901E	STR					
296	5	3'-4 1/2"	F501E	<u> </u>	5 1/2"	2'-5"			<u> </u>
42	6	19'-6"	F601E	STR					
44	6	1/"-6"	F602E	SIR	0//	EL 0//	A/ 0//		
12 12	0	10'-0"	FOUSE	F14 50	0"	J'-8" Z'_10#	l' -0"	Z/_10//	
IZ	0	12 -0	r 004e		0	5'-10"	J -0"	5-10*	+
81	8	17'-6"	FROIF	STR					+
80 80	8	19'-6"	F802F	STR					
00		10 0	10022	JIN					
78	10	29'-0"	F1001E	8	1'-10"	27'-2"			
				1 -				ABUT	MENT
164	5	8′-11″	A501E	17		2'-8"	3'-8"	2'-8"	
24	5	7'-2"	A <mark>503E</mark>	17		1'-9"	3'-8"	1'-9"	
16	5	8′-10″	A5 <mark>04E</mark>	17		1'-9"	5′-4″	<u>1'-9"</u>	
12	5	41′-2″	A505E	STR					
88	5	3'-6" TO 9'-0"	A506E	STR					
40	5	4′-10″	A507E	STR					
20	5	12'-8"	A508E	17		6'-0"	8″	6'-0"	
8	5	14'-11"	A509E	19	4'-8"	0″	4'-8"	10'-3"	<u> </u>
16	6	43'-2"	A601E	1	1′-0″	41'-2"			
6	6	41'-2"	A602E	SIR					
48	6	3'-8"	AGUJE	SIR					
00	7	E/ 11// TO 17/ 7//	A 704E	CTD					
80 64	/ 7		AZOOE						
04		13 - 7	A/UZE	5/K					+
16	<u>a</u>	<u> </u>	1001F	STR					+
10	3		AJUIL					l Pl	
176	5	.3′-10″		7.3					
64	5	3'-0"	M502E	STR					
									+
96	8	10′-11″	M801E	18	11″	10'-0"	0"		
								APPROAC	CH S
80	5	19'-8" TO 25'-10"	AS501E	STR					
42	5	38'-6"	AS502E	STR					
14	5	4'-0' TO 32'-6"	AS503E	STR					
142	5	6'-6"	AS506E	H1	2'-0"	7 1/2"	1′-2″	7 1/2"	1
80	5	5′-11″	AS507E	16	1′-10″	1′-9″	7″	1′-9″	_
80	5	6'-10"	AS508E	16	1′-10″	<u>1′-9″</u>	1-8"	1 ′′-9″	<u> </u>
142	5	4'-3"	AS509E	16	0″	0″	1'-8"	2'-7"	<u> </u>
F ^		70/ 0"	1000-						<u> </u>
52	6	<u> </u>	ASOUTE	SIR					
14	6	4 - U 1U 52 - 6"	ASOUZE						+
ΙΖ	0	<u></u>	AJOUS	511					+
100	10	101_911 TO DEL 1011	10015	СТР					+
100	I IU	ע <i>ר</i> יקון ס־ פון ער פון ער	AJIUUIE	I SIR	1	1	1	1	

DELAWARE

ADDENDUMS / REVISIONS **DEPARTMENT OF TRANSPORTATION**

5	110 004	(
	US 301	Т
	MARYLAND STATE LINE	
	IU LEVELS KUAD	NE
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- SIZES #3 THROUGH #8. DD4 400 07

				BK1-4	86-27	
CONTRACT	BRIDGE NO.	1-486			SHEET NO.	
200811301	11301 TY DESIGNED BY: JLW REINFO			BAR	290	
COUNTY			SCHEDULE (SHEET 2	OF 2)	TOTAL SHTS.	
W CASTLE	CHECKED BY:	JPF		-	850	

NEW CASTLE