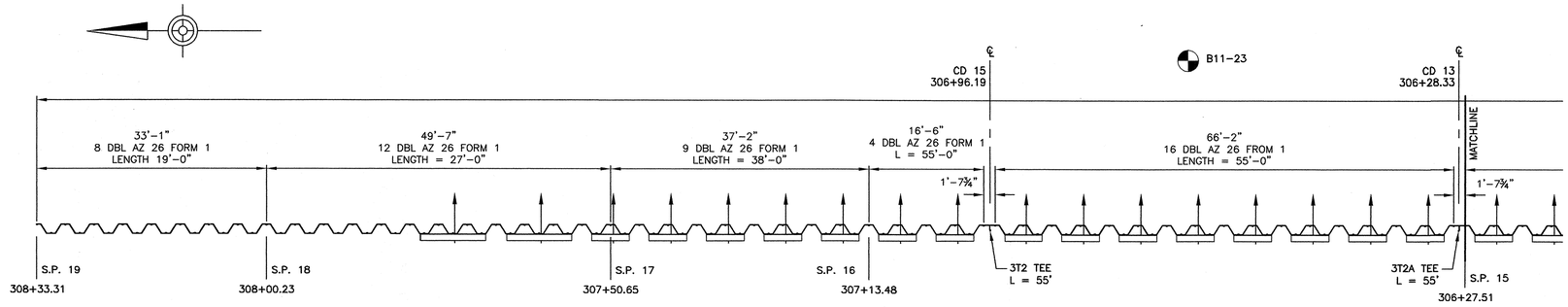
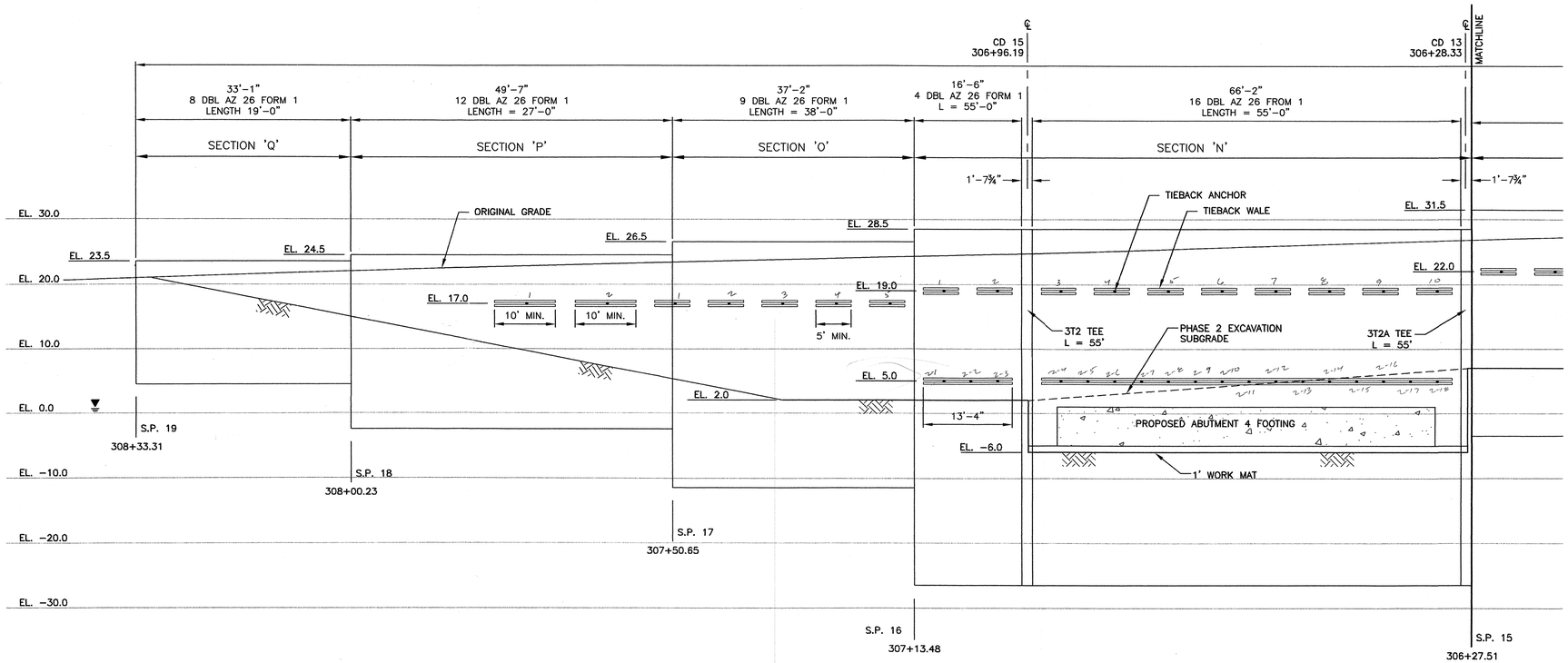


NORTH SIDE SHEET PILE PLAN



NORTH SIDE SHEET PILE ELEVATION

GENERAL NOTES

1. TEN DAYS PRIOR TO STARTING WORK, CONTACT THE MISS UTILITY (800-257-7777) TO MARK LOCATIONS OF EXISTING UTILITIES. LOCATE ALL ADJACENT UTILITIES BY TEST HOLES PRIOR TO EXCAVATION OR DRIVING OF STEEL SHEETING OR INSTALLING TIEBACK ANCHORS. RELOCATE SHEETING OR INTERFERING UTILITIES AS REQUIRED.

2. MAINTAIN SAFE CLEARANCE BETWEEN ANY UTILITIES AND CRANE OR DRILL RIG BOOMS DURING INSTALLATION OF SHEET PILING AND TIEBACK ANCHORS.

3. DRIVE STEEL SHEET PILING IN THE LOCATIONS AND TO THE DEPTHS INDICATED ON THIS PLAN. ADJUST LOCATION(S) OF SHEET PILING AS REQUIRED TO AVOID EXISTING UTILITIES.

4. EXCAVATE DOWN TO APPROXIMATELY 2 FEET BELOW THE UPPER TIEBACK LEVEL. INSTALL THE UPPER TIEBACKS AND WALES AND TEST THE TIEBACKS.

5. CONTINUE EXCAVATING TO APPROXIMATELY 2 FEET BELOW THE NEXT LOWER TIEBACK LEVEL OR SUBGRADE. INSTALL AND TEST EACH LEVEL OF TIEBACKS PRIOR TO EXCAVATION TO SUBSEQUENT LEVEL.

6. A SAFETY HANDRAIL AND KICKBOARD SHALL BE INSTALLED ALONG THE TOPS OF THE SHEETING WALLS PER OSHA STANDARDS.

7. EQUIVALENT STRENGTH MEMBERS MAY BE SUBSTITUTED FOR THOSE SHOWN.

SHOP DRAWING REVIEW

✓ NO EXCEPTIONS TAKEN — REVISE AND RESUBMIT
— REVISE AS NOTED — REJECTED

This review is only for general conformance with design intent of the project and general compliance with the information given in the contract documents. Review, corrections or comments made concerning the shop drawings during this review do not relieve the contractor from compliance with requirements of the drawings and specifications, nor relieve the contractor of contractual responsibility for any error or deviation from contract requirements. The contractor is responsible for confirming and correlating all quantities, dimensions and structural capabilities - Selecting fabrication processes and techniques of construction - Coordinating his work with that of all other trades - and performing his work in a safe and satisfactory manner.

DEL. DEPARTMENT OF TRANSPORTATION
FIGG BRIDGE ENGINEERS, INC. By: [signature] Date: 7/8/2005

MATERIALS

SHEET PILING:	AZ 26 STEEL SHEET PILING, A572, Fy = 50 KSI AZ 36 STEEL SHEET PILING, A572, Fy = 50 KSI
TIEBACK ANCHOR:	ASTM A416, 0.6"ø, GRADE 270 KSI, STRANDS OR ASTM A722, GR 150 THREADBARS HARDWARE PER TENDON MANUFACTURERS' RECOMMENDATION
TIEBACK WALES:	DOUBLE C15x33.9, A572, Fy = 50 KSI, OR EQUAL DOUBLE C12x30, A572, Fy = 50 KSI, OR EQUAL DOUBLE C12x25, A572, Fy = 50 KSI, OR EQUAL
WELDING ROD:	E7018 ELECTRODES

LEGEND

TEMPORARY SHEET PILE WALL

(1) TIEBACK NO. 1

SUBMITTAL NO. 622513-02
SPECIFICATION SECTION NO. 622513
SPEC. SECTION DESCRIPTION Tiebacks
SUBMITTAL DESCRIPTION Tieback

WE CERTIFY THAT THIS SUBMITTAL HAS BEEN REVIEWED, CHECKED, AND APPROVED AND IS IN CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

SIGNED Sallie Kuhn KUHN CONSTRUCTION
DATE 6/30/05

SHEET PILE WALL SCHEDULE – NORTH SIDE

SECTION	SHEET PILE SIZE	TIEBACK – LEVEL 1				TIEBACK – LEVEL 2				TIEBACK – LEVEL 3			
		D.L. @ 15° (KIPS)	ELEV.	SPACING (FT)	WALE	D.L. @ 15° (KIPS)	ELEV.	SPACING (FT)	WALE	D.L. @ 15° (KIPS)	ELEV.	SPACING (FT)	WALE
I	AZ 26	–	–	–	–	–	–	–	–	–	–	–	–
J	AZ 26	–	–	–	–	–	–	–	–	–	–	–	–
K	AZ 26	71	18	12.4	2C12x30	–	–	–	–	–	–	–	–
L	AZ 36	112	25	8.27	2C12x30	123	11	8.27	2C12x30	105	1	4.14	2C12x25
M	AZ 26	109	22	8.27	2C12x25	–	–	–	–	–	–	–	–
N	AZ 26	110	19	8.27	2C12x30	68	5	4.14	2C12x25	–	–	–	–
O	AZ 26	95	17	8.27	2C12x25	–	–	–	–	–	–	–	–
P	AZ 26	88	17	12.4	2C12x30	–	–	–	–	–	–	–	–
Q	AZ 26	–	–	–	–	–	–	–	–	–	–	–	–

TIEBACK TENDON TYPE & SIZE		MAX. DESIGN LOAD
0.6"ø, 270 KSI	2 STRANDS	70.3 KIPS
	3 STRANDS	105.4 KIPS
	4 STRANDS	140.6 KIPS
1"ø, 150 KSI THREADBAR		76.5 KIPS
1 1/4"ø, 150 KSI THREADBAR		112.5 KIPS
1 3/8"ø, 150 KSI THREADBAR		142.2 KIPS

0 10
Scale in Feet

JOHN J. PEIRCE JR. REGISTERED No. 6470 PROFESSIONAL ENGINEER DELAWARE
JOHN J. PEIRCE JR.
5/24/05
DELAWARE PROFESSIONAL ENGINEER
LICENSE No. 6470

NO.	REVISIONS	DATE	APP'D
1	FIGG REVIEW COMMENTS DATED 6/17/05	6/27/05	

DESIGNED: JJP | CHK'D: JPB | DRAWN: JPB | CHK'D: JJP

PEIRCE ENGINEERING, INC.
3736 Stoughton Road Collegeville, PA 19426 PH./FAX (610)489-1163
Civil – Construction Engineering

KUHN CONSTRUCTION COMPANY
P.O. BOX 1419 HOCKESSIN, DELAWARE 19707

DELAWARE RIVER SEASHORE STATE PARK
BR 3-156 INDIAN RIVER INLET
FEDERAL AID PROJECT NO. BROS-S050(7)
NORTH SIDE PLAN

DWG. NAME: SHEETING.DWG | STRUCTURE NO.
SCALE: 1" = 10' | CONTRACT NO. 27-073-03 | DWG. NO. | SHEET NO. 1 OF 6