ABUTMENT NO. 2 CONSTRUCTION SEQUENCE

1. THE EXISTING STRUCTURE TO REMAIN IN PLACE TO MAINTAIN LATERAL SUPPORT FOR THE EXISTING ABUTMENT WALL.
2. EXCAVATE TO THE BOTTOM OF THE PROPOSED ABUTMENT AND WINGWALL CAPS.
3. INSTALL THE H-PILES FOR THE ABUTMENT AND WINGWALLS.
4. FILL THE VOID AROUND THE H-PILES WITH 3,000 PSI GROUT OR CONCRETE TO THE TOP OF ROCK.
5. INSTALL SHORING.
6. AFTER THE GROUT OR CONCRETE HAS ATTAINED A STRENGTH OF 3,000 PSI, REMOVE THE EXISTING SUPERSTRUCTURE AND EXISTING ABUTMENT 2 WALL AND WINGWALLS. RETAIN THE EXISTING CONCRETE SILL.
7. EXCAVATE TO THE BACK FACE OF THE SHORING AND DOWN TO THE ROCK LINE. REMOVE LOOSE SOIL AND MATERIALS FROM THE H-PILES AND SHORING PRIOR TO INSTALLING THE REINFORCING STEEL AND PLACING CONCRETE FOR ABUTMENT WALL AND WINGWALLS.
8. INSTALL REINFORCING STEEL FOR ABUTMENT WALL AND WINGS.
9. FORM AND POUR ABUTMENT WALL TO BOTTOM OF THE PROPOSED CAP FOR ABUTMENT AND WINGS (POUR #1).
10. CONSTRUCT THE CAP FOR ABUTMENT AND WINGS (POUR #2).
11. CONSTRUCT THE UPPER PART OF WINGS AND BACKWALL (POUR #3).

NOTES

#5 S1 BARS IN CAP MAY BE SHIFTED AS NECESSARY TO CLEAR DOWELS.

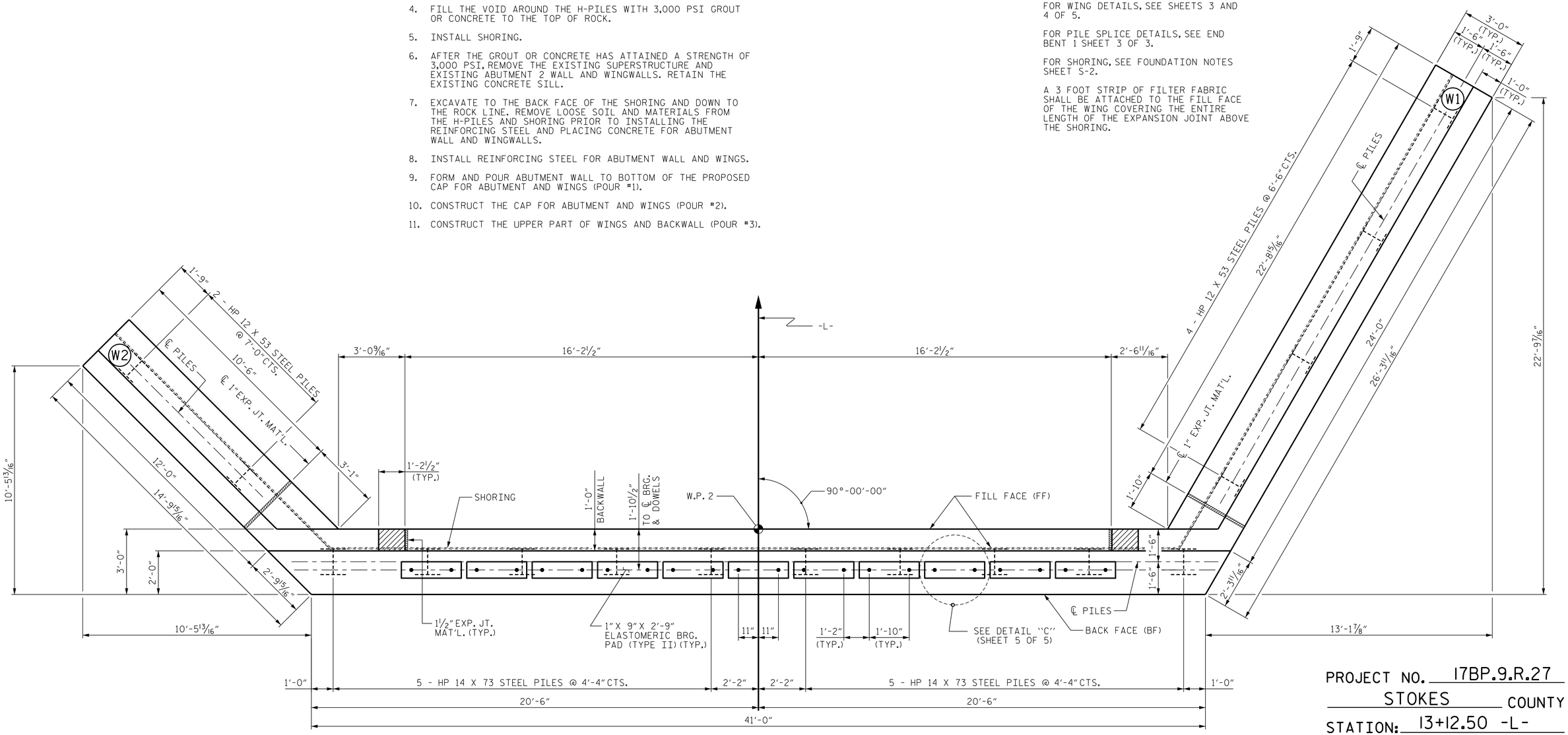
THE CONCRETE IN THE SHADED AREA OF THE WING SHALL BE POURED AFTER THE VERTICAL CONCRETE BARRIER RAIL IS CAST IF SLIP FORMING IS USED.

FOR WING DETAILS, SEE SHEETS 3 AND 4 OF 5.

FOR PILE SPLICE DETAILS, SEE END BENT 1 SHEET 3 OF 3.

FOR SHORING, SEE FOUNDATION NOTES SHEET S-2.

A 3 FOOT STRIP OF FILTER FABRIC SHALL BE ATTACHED TO THE FILL FACE OF THE WING COVERING THE ENTIRE LENGTH OF THE EXPANSION JOINT ABOVE THE SHORING.



PLAN

PROJECT NO. 17BP.9.R.27

STOKES COUNTY

STATION: 13+12.50 -L-

SHEET 1 OF 5

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SUBSTRUCTURE

ABUTMENT NO. 2

NORTH CAROLINA PROFESSIONAL SEAL 12323 ENGINEER MORRIS ISRAELNAM

11/6/2015

MI ENGINEERING
1011 SCHAUB DRIVE, SUITE 100
RALEIGH, NC 27606
(919) 851-6606
FIRM PE NUMBER : P-0671

REVISIONS								SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:			S-14
1			3					TOTAL SHEETS
2			4					21

DRAWN BY :	B.E. LANNING	DATE :	07/14
CHECKED BY :	P.A. de PAOLI	DATE :	07/14
DESIGN ENGINEER OF RECORD :	P.A. de PAOLI	DATE :	07/14

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