DRAWN BY : \_\_\_MBC

CHECKED BY : JAD

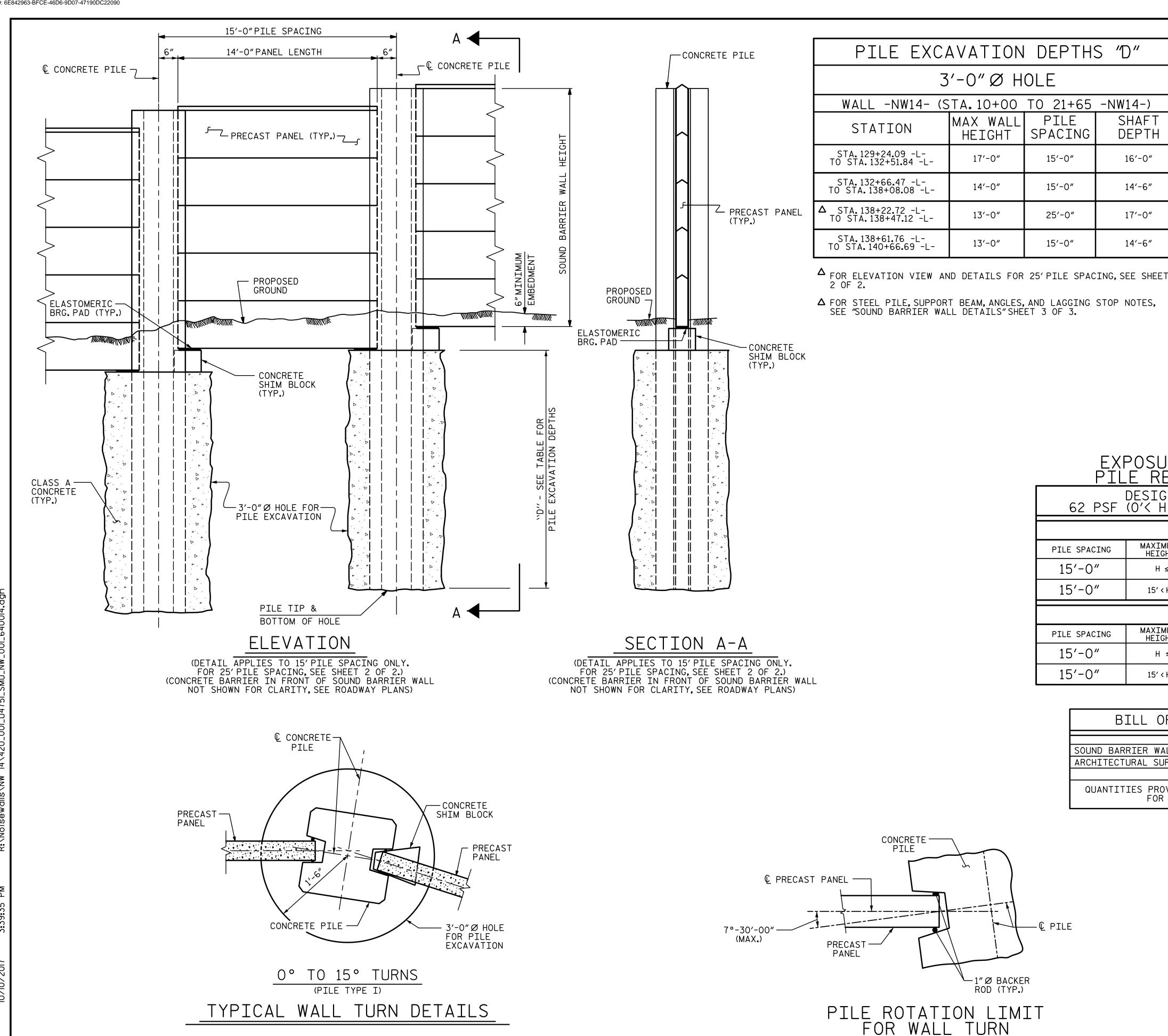
5-17

5-17

DATE :

DESIGN ENGINEER OF RECORD:

\_\_J. DICHAK DATE: \_\_\_\_5-17



NOTES:

SHAFT

DEPTH

16'-0"

14'-6"

17'-0"

14'-6"

SPACING

15'-0"

15'-0"

25'-0"

15'-0"

−Œ PILE

·1"Ø BACKER

ROD (TYP.)

(ROTATE THE CONCRETE PILE ±7°-30′-00″MAX. TO ACCOMMODATE WALL TURN.)

MAX WALL

HEIGHT

17'-0"

14'-0"

13'-0"

13'-0"

FOR SOUND BARRIER WALL, SEE SPECIAL PROVISIONS.

CONSTRUCT SOUND BARRIER WALL TO LINES AND GRADES SHOWN ON THE ROADWAY PLANS. PROVIDE PANELS WITH A FLAT BOTTOM.

VERIFY THE LOCATION OF UNDERGROUND UTILITIES BEFORE DRILLING HOLES TO ENSURE SUFFICIENT CLEARANCE IS AVAILABLE.

ADJUST PILE EXCAVATION ELEVATIONS TO MAINTAIN 6"MINIMUM EMBEDMENT OF THE BOTTOM PANEL.

USE CLASS AA FOR PANELS AND CLASS A CONCRETE PILE EXCAVATION BACKFILL. IN ACCORDANCE WITH ARTICLE 1000-4 OF THE STANDARD SPECIFICATIONS.

FOR SOUND BARRIER WALL STATIONS, OFFSETS, AND WALL ENVELOPE, SEE ROADWAY PLANS. PLACE 1" Ø BACKER RODS FULL HEIGHT ON EACH SIDE OF THE PRECAST PANELS. SET AND SEAL THE BACKER ROD IN PLACE WITH SEALANT THAT CONFORMS WITH ARTICLE 1028-3 OF THE STANDARD SPECIFICATIONS.

FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS.

- FOR ELASTOMERIC BEARING DETAILS, SEE "SOUND BARRIER WALL DETAILS" SHEET 1 OF 3.
- FOR CONCRETE SHIM BLOCK DETAILS, SEE "SOUND BARRIER WALL DETAILS" SHEET 1 OF 3.
- FOR PRECAST PANEL DETAILS, SEE "SOUND BARRIER WALL DETAILS" SHEET 1 & 3 OF 3.
- FOR CONCRETE PILE DETAILS, SEE "SOUND BARRIER WALL DETAILS" SHEETS 1 & 2 OF 3.
- AT THE CONTRACTOR'S OPTION, USE CONTINUOUS FLIGHT AUGER PILES IN LIEU OF PILE EXCAVATION FOR SOUND BARRÍER WALL FOUNDATION. SEE "CONTINUOUS FLIGHT AUGER PILES FOR SOUND BARRIER WALLS" SPECIAL PROVISION.

THE ARCHITECTURAL CONCRETE SURFACE TREATMENT SHALL MATCH THE APPEARANCE (STONE SIZE AND SHAPE, STONE TEXTURE, PATTERN AND RELIEF) OF NATURAL STONE TO RESEMBLE A DRY STACKED STONE PATTERN WITH FEDERAL STANDARD 595 COLOR # FS30450 STAIN.

## EXPOSURE CATEGORY D -

FILE REINFURCING SIEEL				
DESIGN WIND PRESSURE = 62 PSF (0'< H < 14'); 71 PSF (14'< H < 25')				
PILE TYPE I				
PILE SPACING	MAXIMUM WALL HEIGHT ( H )	VERTICAL REINFORCING STEEL	TIES	
15′-0″	H ≤ 15′	4 - #8 EA.FACE	#3 @ 11″CTS.	
15′-0″	15′ < H ≤ 20′	4 - #10 EA.FACE	#3 @ 10″CTS.	
PILE TYPE II				
PILE SPACING	MAXIMUM WALL HEIGHT ( H )	VERTICAL REINFORCING STEEL	TIES	
15′-0″	H ≤ 15′	4 - #6 EA.FACE	#3 @ 11″CTS.	
15′-0″	15′ < H ≤ 20′	4 - #8 EA.FACE	#3 @ 10″CTS.	

AL -NW14-	BILL OF MATERIAL
S.F. 16,142	SOUND BARRIER WALL
	ARCHITECTURAL SURFACE TREATMENT
	QUANTITIES PROVIDED ARE APPROX FOR BID PURPOSES ON

A REVISED ARCHITECTURAL SURFACE TREATMENT QUANTITY

PROJECT NO. U-4751

NEW HANOVER

COUNTY

STATION: 129+24.09 -L- = 10+00.00 -NW14-

SHEET 1 OF 2

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION 02308 I

> SOUND BARRIER WALL NO. -NW14-

( )	STV 100
	ENGINEERS, INC.
900 We	st Trade St., Suite 715
	iarlotte, NC 28202 cense Number F-0991

10/10/2017

**REVISIONS** SHEET NO NW-13 DATE: DATE: NO. BY: TOTAL SHEETS STV 10-17