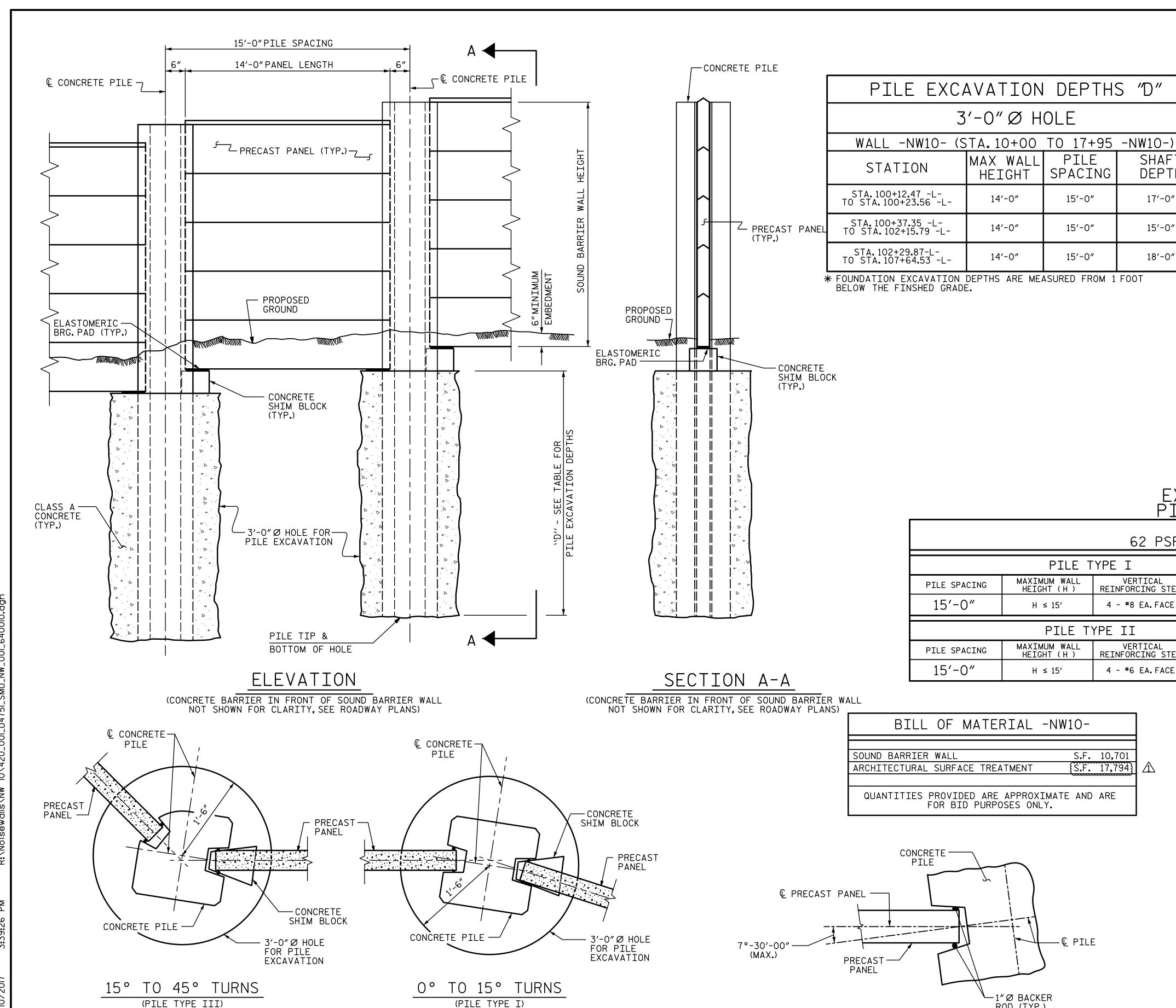
DRAWN BY : __MBC

CHECKED BY : JAD



TYPICAL WALL TURN DETAILS

J. DICHAK DATE: 5-17

DESIGN ENGINEER OF RECORD:

5-17

5-17

DATE:

NOTES:

SHAFT *

DEPTH

17'-0"

15'-0"

18'-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 OF 3.

FOR CONCRETE PILE DETAILS, SEE "SOUND BARRIER WALL DETAILS" SHEETS 1 & 2 OF 3.

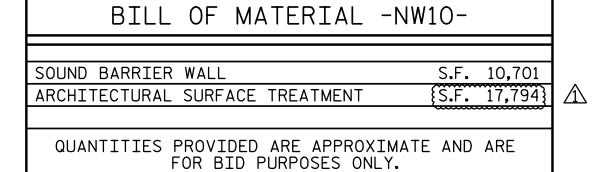
AT THE CONTRACTOR'S OPTION, USE CONTINUOUS FLIGHT AUGER PILES IN LIEU OF PILE EXCAVATION FOR SOUND BARRIER WALL FOUNDATION. SEE "CONTINUOUS FLIGHT AUGER

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 - PILE REINFORCING STEEL

TILL INCINO SILLE											
DESIGN WIND PRESSURE = 62 PSF (O'< H ≤ 14'); 71 PSF (14'< H ≤ 25')											
PILE TYPE I				PILE TYPE III							
PILE SPACING	MAXIMUM WALL HEIGHT (H)	VERTICAL REINFORCING STEEL	TIES	PILE SPACING	MAXIMUM WALL HEIGHT (H)	VERTICAL REINFORCING STEEL	TIES				
15′-0″	H ≤ 15′	4 - #8 EA.FACE	#3 @ 11″CTS.	15′-0″	H ≤ 15′	3 - #9 SHORT FACE 4 - #9 LONG FACE	#3 @ 11″CTS.				
PILE TYPE II				PILE TYPE III ALT.							
PILE SPACING	MAXIMUM WALL HEIGHT (H)	VERTICAL REINFORCING STEEL	TIES	PILE SPACING	MAXIMUM WALL HEIGHT (H)	VERTICAL REINFORCING STEEL	TIES				
15'-0"	H ≤ 15′	4 - #6 EA.FACE	#3 @ 11″CTS.	15′-0″	H ≤ 15′	3 - #9 SHORT FACE 4 - #9 LONG FACE	#3 @ 11″CTS.				



3'-0" Ø HOLE

SPACING

15'-0"

15'-0"

15'-0"

MAX WALL

HEIGHT

14'-0"

14'-0"

14'-0"

CONCRETE −Q PILE -1"Ø BACKER ROD (TYP.)

> PILE ROTATION LIMIT FOR WALL TURN

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

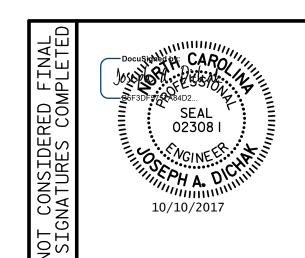
A REVISED ARCHITECTURAL SURFACE TREATMENT QUANTITY

PROJECT NO. U-4751

NEW HANOVER

COUNTY STATION: 100+12.47 -L- =

10+00.00 -NW10-



STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

SOUND BARRIER WALL NO. -NW10-

STV 100 STV ENGINEERS, INC. 900 West Trade St., Suite 715 Charlotte, NC 28202 NC License Number F-0991

	SHEET NO					
NO.	BY:	DATE:	NO.	BY:	DATE:	NW-7
1	STV	10-17	3			TOTAL SHEETS
2			4			17