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			PILE EXC			s "U"		
CONCRETE PILE			3'-O"Ø HOLE					
			WALL -NW13- (STA.10+00 TO 38+83 -NW13-)					
		STATION		MAX WALL HEIGHT	PILE SPACING	SHAFT DEPTH		
		ST/ TO S	A.128+33.75 -L- TA.128+48.67 -L-	17'-0″	15′-0″	16′-6″		
		STA	4.128+62.49 -L-	15'-0″	15′-0″	14'-6″		
		▲ STA.128+77.49 -L- TO STA.135+62.14 -L-		17'-0″	15′-0″	13'-0″		
L	PRECAST PANEL	STA.135+77.52 -L- TO STA.138+54.36 -L-		16'-0″	15′-0″	13′-6″		
		△ ST TO S	A.138+69.74 -L- TA.138+95.37 -L-	16'-0″	25'-0"	17'-0″		
		STA.139+10.75 -L- TO STA.151+62.26 -L-		16'-0″	15'-0"	13'-6″		
ROPOSED ROUND -7		△ ST	A.151+77.64 -L- STA.152+16.61 -L-	16'-0″	38'-0″	20'-0"		
		ST. TO S	A.152+31.99 -L- TA.157+54.98 -L-	16'-0″	15′-0″	13′-6″		
	CONCRETE SHIM BLOCK		ELEVATION VIEW	AND DETAILS FO	R 25' AND 38'		J •	
	► (TYP.) ►	PILE SPACINGS, SEE SHEETS 2 AND 3 OF 3. \triangle FOR STEEL PILES. SUPPORT BEAM. ANGLES. AND						
		LAGGING STOP NOTES, SEE "SOUND BARRIER WALL DETAILS" SHEET 3 OF 3.						
		EXPOSURE CATEGORY D - PILE REINFORCING STEEL						
		DESIGN WIND PRESSURE =						
		62 PSF (O'< H <u><</u> 14'); 71 PSF (14'< H <u><</u> 25')						
			PILE TYPE I					
			PILE SPACING	HEIGHT (H)	REINFORCING	STEEL		
			15'-0"	H ≤ 15′	4 - #8 EA.FA			
			15'-0"	15' < H ≤ 20'	4 - #10 EA.F.	ACE #3 @ 10″ (CTS.	
				PILE T MAXIMUM WALL	YPE II Vertical			
			PILE SPACING	HEIGHT (H)	REINFORCING	STEEL		
			15'-0"	H ≤ 15′	4 - #6 EA.FA	ACE #3 @ 11" 0	CTS.	
SECTION A-A			15'-0"	15′ < H ≤ 20′	4 - #8 EA.FA	ACE #3 @ 10" CTS		
L APPLIES TO 15' PILE SPACING ONLY.					YPE III			
PILE SPACING	, SEE SHEET 2 OF 3. SEE SHEET 3 OF 3.)		PILE SPACING	MAXIMUM WALL HEIGHT (H)	VERTICAL REINFORCING S	STEEL		
RIER IN FRON	T OF SOUND BARRIER WAL , SEE ROADWAY PLANS)	-L	15'-0"	H ≤ 15′	3 - #9 SHORT 4 - #9 LONG F	FACE #3 @ II" C	CTS.	
			15'-0"	15′ < H ≤ 20′	3 - #11 SHORT 4 - #11 LONG		CTS.	
				PILE TYPE	E III ALT.			
			PILE SPACING	MAXIMUM WALL HEIGHT(H)	VERTICAL REINFORCING			
			15'-0″	H ≤ 15′	3 - #9 SHORT 4 - #9 LONG F		CTS.	
			15'-0"	15′ < H ≤ 20′	3 - #11 SHORT 4 - #11 LONG		CTS.	
< compared with the second sec								
			PILE					
IEL	€ PRECAST PAN	EL — – – – – –	۳ ۳					
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	7°-30′-00″			P ↓ € F	YILE			
		ECAST —		· · ·				
ECAST NEL HOLE	7°-30'-00"	<u> </u>			'ILE			

ROD (TYP.) PILE ROTATION LIMIT FOR WALL TURN

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

└─1″Ø BACKER

TES: SOUND BARRIER WALL, SEE SPECIAL PROVISIONS. ISTRUCT SOUND BARRIER WALL TO LINES AND GRADES SHOWN ON THE ROADWAY PLANS. VIDE PANELS WITH A FLAT BOTTOM. IFY THE LOCATION OF UNDERGROUND UTILITIES BEFORE DRILLING HOLES TO ENSURE FICIENT CLEARANCE IS AVAILABLE. UST PILE EXCAVATION ELEVATIONS TO MAINTAIN 6"MINIMUM EMBEDMENT OF THE BOTTOM CLASS AA FOR PANELS AND CLASS A CONCRETE PILE EXCAVATION BACKFILL, IN ORDANCE WITH ARTICLE 1000-4 OF THE STANDARD SPECIFICATIONS. SOUND BARRIER WALL STATIONS, OFFSETS, AND WALL ENVELOPE, SEE ROADWAY PLANS. CE 1"Ø BACKER RODS FULL HEIGHT ON EACH SIDE OF THE PRECAST PANELS.SET AND SEAL BACKER ROD IN PLACE WITH SEALANT THAT CONFORMS WITH ARTICLE 1028-3 OF THE NDARD SPECIFICATIONS. SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS. FALSEWORK AND FORMWORK, SEE SPECIAL PROVISIONS. ELASTOMERIC BEARING DETAILS, SEE "SOUND BARRIER WALL DETAILS" SHEET 1 OF 3. CONCRETE SHIM BLOCK DETAILS, SEE "SOUND BARRIER WALL DETAILS" SHEET 1 OF 3. PRECAST PANEL DETAILS, SEE "SOUND BARRIER WALL DETAILS" SHEET 1 & 3 OF 3. CONCRETE PILE DETAILS. SEE "SOUND BARRIER WALL DETAILS" SHEETS 1 & 2 OF 3. THE CONTRACTOR'S OPTION, USE CONTINUOUS FLIGHT AUGER PILES IN LIEU OF PILE AVATION FOR SOUND BARRIER WALL FOUNDATION. SEE "CONTINUOUS FLIGHT AUGER PILES SOUND BARRIER WALLS" SPECIAL PROVISION. E THAT SOUND BARRIER WALL PILES LOCATED WITHIN THE MSE WALL BACKFILL MUST BE TALLED PRIOR TO MSE WALL CONSTRUCTION, THE DEPTHS ARE MEASURED FROM THE TOM OF THE MSE WALL REINFORCED ZONE ASSUMING 2 FEET OF WALL EMBEDMENT AND ED ON THE DIMENSION SHOWN IN THE ROADWAY CROSS SECTIONS. ARCHITECTURAL CONCRETE SURFACE TREATMENT SHALL MATCH THE APPEARANCE (STONE E AND SHAPE, STONE TEXTURE, PATTERN AND RELIEF) OF NATURAL STONE TO RESEMBLE A STACKED STONE PATTERN WITH FEDERAL STANDARD 595 COLOR # FS30450 STAIN. BILL OF MATERIAL -NW13-SOUND BARRIER WALL S.F. 44,952 {S.F. 75,822} ARCHITECTURAL SURFACE TREATMENT QUANTITIES PROVIDED ARE APPROXIMATE AND ARE FOR BID PURPOSES ONLY. REVISED ARCHITECTURAL SURFACE TREATMENT QUANTITY PROJECT NO. U-4751 NEW HANOVER COUNTY STATION: 128+33.75 -L- = 10+00.00 -NW13-SHEET 1 OF 3 STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION osere i Pielere RALEIGH SEAL 02308 I O NGINEE PHA. DI SOUND BARRIER WALL NO. -NW13-10/10/2017 STV Jans REVISIONS SHEET NO. NW-10 DATE: DATE: NO. BY: BY: STV ENGINEERS, INC. 900 West Trade St., Suite 715 Charlotte, NC 28202 NC License Number F-0991 TOTAL SHEETS STV 10-17 17