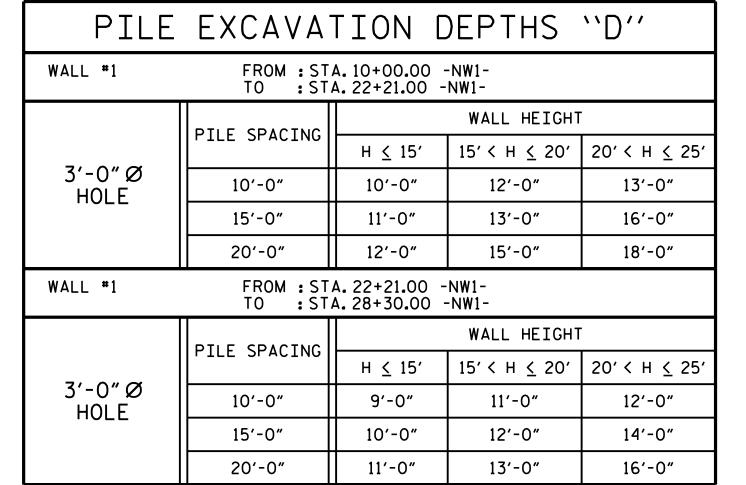


CONCRETE PILE —

TO 15° TURNS

· 3'-0"Ø HOLE FOR PILE EXCAVATION



## NOTES

FOR SOUND BARRIER WALL, SEE GEOTECHNICAL 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.

AT THE CONTRACTOR'S OPTION, USE 10'-0", 15'-0", OR 20'-0" PILE SPACINGS. STANDARD PRECAST CONCRETE PANELS MAY BE USED WITH THE 10'-0" AND 15'-0" PILE SPACING. FOR 20'-0" PILE SPACING, PANELS DESIGNED AND MANUFACTURED BY A THIRD PARTY VENDER SHALL BE USED.

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.

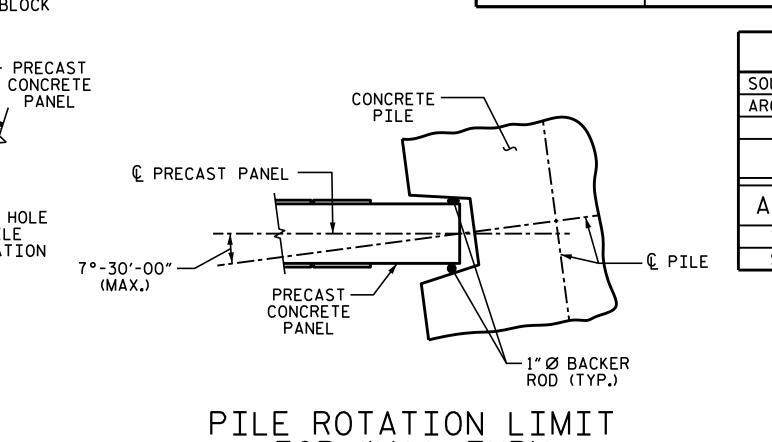
FOR SUBMITTAL OF WORKING DRAWINGS, SEE SPECIAL PROVISIONS.

FOR FALSEWORK AND FORMWORK. SEE SPECIAL PROVISIONS.

PILE EXCAVATION DEPTHS ARE BASED ON 36-INCH DIAMETER HOLES. FOR 30-INCH DIAMETER HOLES, ADD 1 FOOT TO THE PILE EXCAVATION DEPTHS SHOWN.

SOUND BARRIER WALL 1 PILE LOCATIONS SHALL BE SLEEVED DURING CONSTRUCTION OF MSE RETAINING WALL 1. SLEEVES FOR SOUND BARRIER WALL FOUNDATIONS SHALL BE CONSIDERED INCIDENTAL TO MSE RETAINING WALL 1. SEE MSE WALL PLANS AND GEOTECHNICAL SPECIAL PROVISIONS.

				RCING STE			
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
10'-0"	H ≤ 25′	4 - #8 EA.FACE	#3 @ 1'-4"CTS.	10'-0"	H ≤ 25′	3 - #9 SHORT FACE 4 - #9 LONG FACE	#3 @ 1'-4"CTS.
15′-0"	H ≤ 20′	4 - #8 EA.FACE	#3 @ 1'-4"CTS.	15′-0″	H ≤ 20′	3 - #9 SHORT FACE 4 - #9 LONG FACE	#3 @ 1'-4"CTS.
	20'< H ≤ 25'	4 - *10 EA.FACE	#3 @ 1'-4"CTS.		20'< H ≤ 25'	3 - *11 SHORT FACE 4 - *11 LONG FACE	#3 @ 1'-4"CTS.
20'-0"	H ≤ 20′	4 - #9 EA.FACE	#3 @ 1'-4"CTS.	20′-0″	H ≤ 20′	3 - *10 SHORT FACE 4 - *10 LONG FACE	#3 @ 1'-4"CTS.
	20′< H ≤ 25′	4 - #11 EA. FACE	#3 @ 1'-4"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
10'-0"	H ≤ 25′	4 - <b>*</b> 6 EA.FACE	#3 @ 1'-4"CTS.	10'-0"	H ≤ 25′	3 - #9 SHORT FACE 4 - #9 LONG FACE	#3 @ 1'-4"CTS.
15′-0″	H ≤ 20′	4 - #6 EA.FACE	#3 @ 1'-4"CTS.	15'-0"	H ≤ 20′	3 - *9 SHORT FACE 4 - *9 LONG FACE	#3 @ 1'-4"CTS.
	20'< H ≤ 25'	4 - #7 EA.FACE	#3 @ 1'-4"CTS.		20'< H ≤ 25'	3 - #11 SHORT FACE 4 - #11 LONG FACE	#3 @ 1'-4"CTS.
20'-0"	H ≤ 20′	4 - #6 EA.FACE	#3 @ 1'-4"CTS.	20′-0″	H ≤ 20′	3 - #10 SHORT FACE 4 - #10 LONG FACE	#3 @ 1'-4"CTS.
	20'< H ≤ 25'	4 - #8 EA.FACE	#3 @ 1'-4"CTS.				



FOR WALL TURN

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

BILL OF MATERIAL SOUND BARRIER WALL 27855 S.F. ARCHITECTURAL SURFACE TREATMENT 45110 S.F. QUANTITIES PROVIDED ARE APPROXIMATE AND ARE FOR BID PURPOSES ONLY. ARCHITECTURAL SURFACE TREATMENT

ASHLAR STONE TEXTURE OPTION: FS 36270 STAIN OPTION:

U-4405 PROJECT NO. \_\_\_\_

CUMBERLAND \_ COUNTY

STATION: 10+00.00 -NW1-

SHEET 1 OF 3

STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH

STANDARD

SOUND BARRIER WALL

6/7/2018 BY: DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEAL 29441 P. CHOINEER the Z. W. ayou

SHEET NO **REVISIONS** SBW-1 DATE: NO. BY: DATE: TOTAL SHEETS

— CONCRETE SHIM BLOCK

TYPICAL WALL TURN DETAILS

3'-0"Ø HOLE FOR PILE

EXCAVATION

CONCRETE PILE -

REV. 9/26/14 REV. 10/17 REV. 5/18

ASSEMBLED BY : K.W. ALFORD

CHECKED BY : G.W. DICKEY

DRAWN BY : MAA 6/II

CHECKED BY : GM 6/II

15° TO 45° TURNS

(PILE TYPE III)

DATE : 6/18

DATE : 6/18

MAA/TMG

MAA/THC

MAA/THC