NOTES
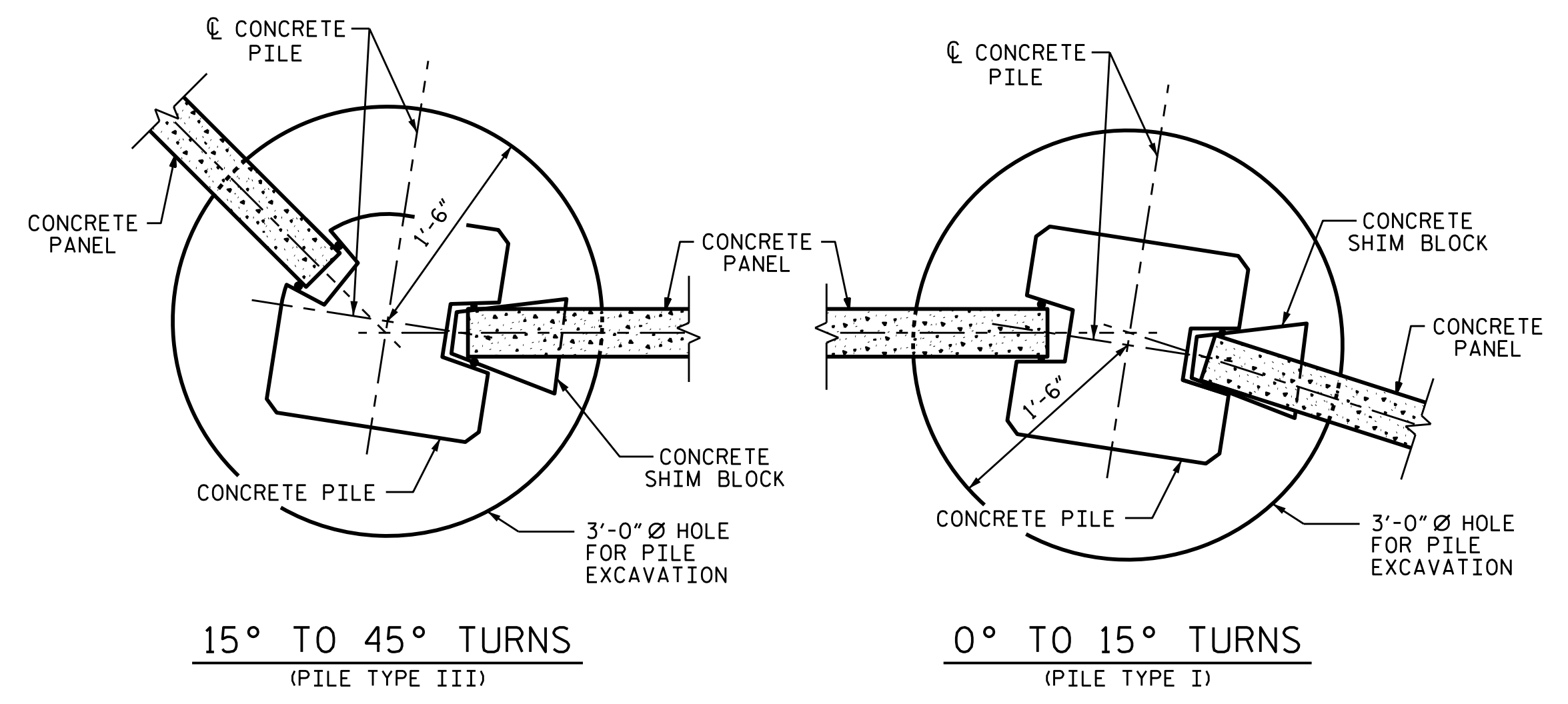
FOR NOISE WALL, SEE SPECIAL PROVISIONS.

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.

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.

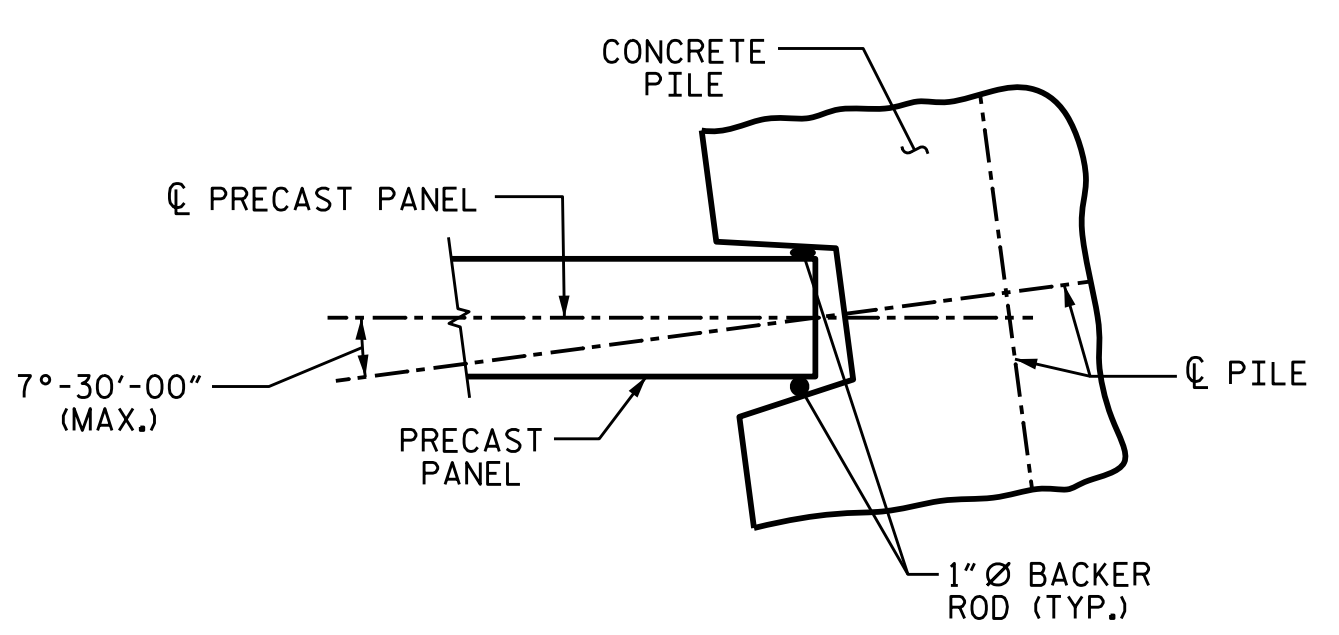FOR ARCHITECTURAL CONCRETE SURFACE TREATMENT OF NOISE WALL, SEE SPECIAL PROVISIONS.

PILE EXCAVATION DEPTHS "D"

WALL #2	FROM : STA. 10+00.00 -NW2REV-	
	TO : STA. 15+00.00 -NW2REV-	

3'-0"Ø HOLE	PILE SPACING	WALL HEIGHT
		H = 10' - 14'
	10'-0"	✻ 10'-0"
	15'-0"	✻ 11'-0"

WALL #2	FROM : STA. 15+00.00 -NW2REV-	
	TO : STA. 17+65.00 -NW2REV-	

3'-0"Ø HOLE	PILE SPACING	WALL HEIGHT
		H = 14'
	10'-0"	✻ 10'-0"
	15'-0"	✻ 10'-0"

✻ OR MINIMUM 5'-0"DEPTH WITH A MINIMUM 3'-0"ROCK SOCKET.

ELEVATION

SECTION A-A

PILE REINFORCING STEEL
DESIGN WIND PRESSURE = 40 PSF

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 - #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.				

15° TO 45° TURNS
(PILE TYPE III)

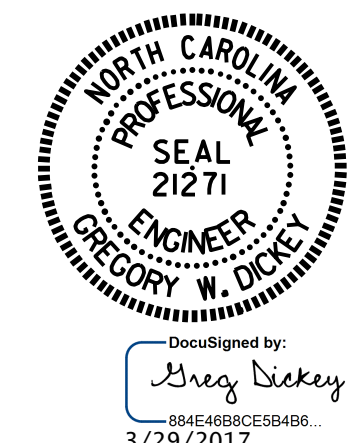0° TO 15° TURNS
(PILE TYPE I)

TYPICAL WALL TURN DETAILS

PILE ROTATION LIMIT
FOR WALL TURN

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

BILL OF MATERIAL

NOISE WALL	9990 S.F.
ARCHITECTURAL CONCRETE SURFACE TREATMENT OF NOISE WALL	9990 S.F.

QUANTITIES PROVIDED ARE APPROXIMATE AND ARE FOR BID PURPOSES ONLY.

PROJECT NO. U-3330

NASH COUNTY

STATION: 30+80.70 -L-

SHEET 1 OF 3

NORTH CAROLINA PROFESSIONAL SEAL 21271 ENGINEER GREGORY W. DICKEY

DocuSigned by:
Greg Dickey
9842489ACE58488...
3/29/2017

ASSEMBLED BY : William F. Parker	DATE : 04/16
CHECKED BY : H. A. LOCKLEAR	DATE : 12/16
DRAWN BY : MAA 6/11	
CHECKED BY : GM 6/11	

ADDED	10/1/11	
REV. 1/15/14		RWW/TMG
REV. 9/26/14		MAA/TMG

29-MAR-2017 12:08
J:\Structures\Final Plans\420_SITE_4_Noise_Wall\DGN\420_005_U3330_SMU_SW_.dgn
gdickey

REVISIONS						
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		

SHEET NO. SW-1

TOTAL SHEETS 3

STD. NO. SBW1