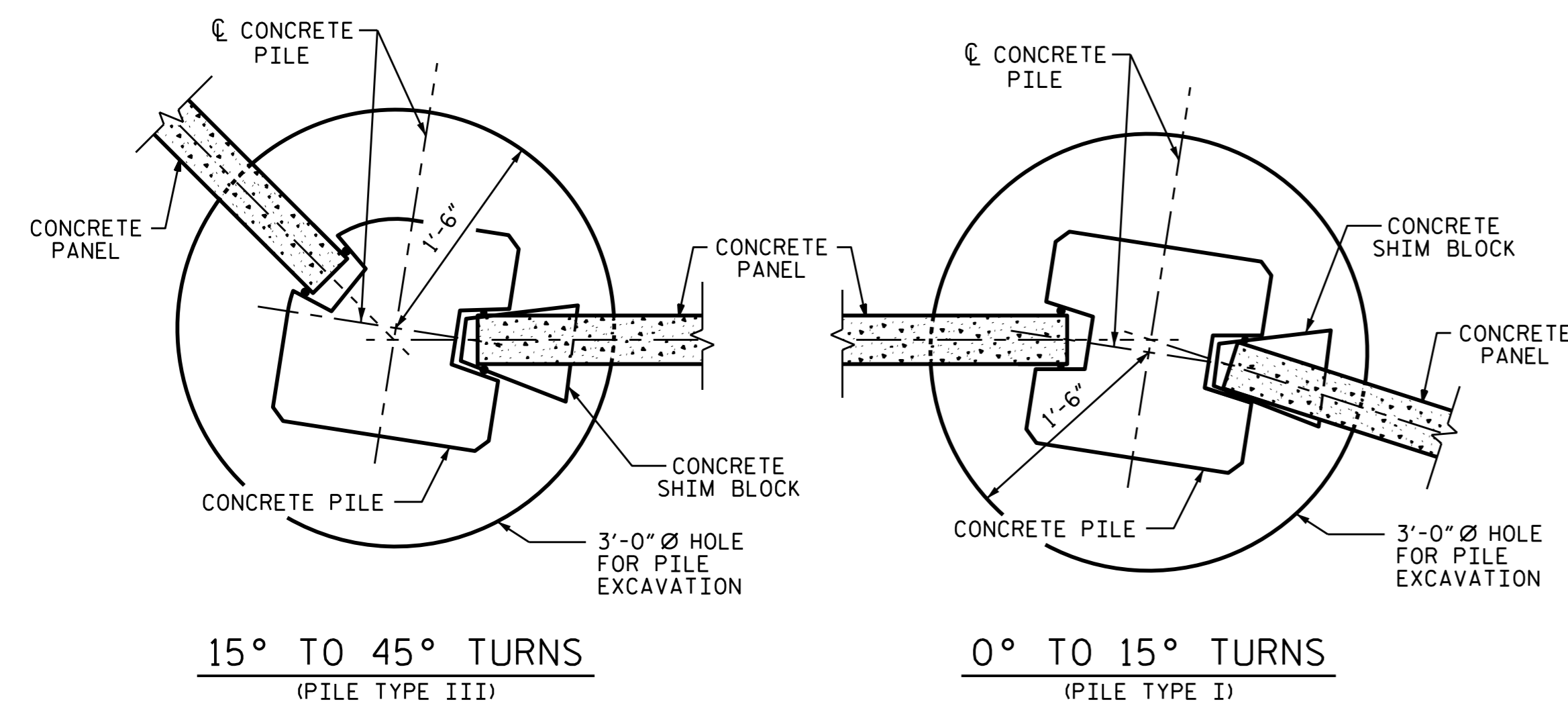
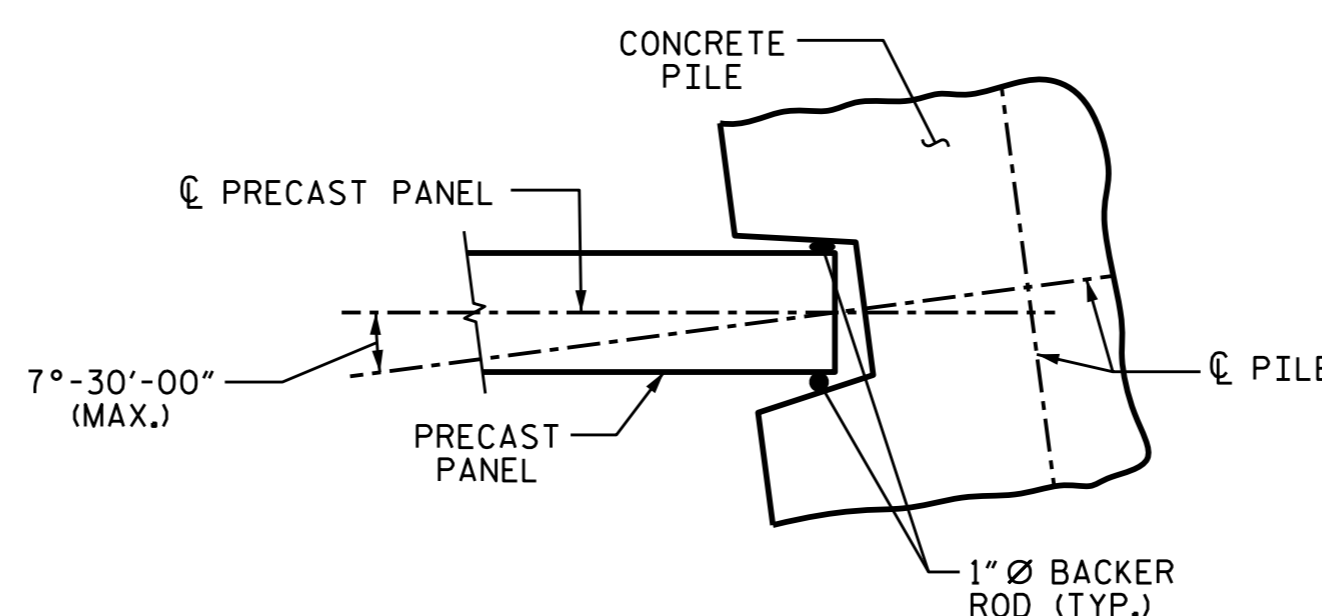


ELEVATION

SECTION A-A



TYPICAL WALL TURN DETAILS



PILE ROTATION LIMIT FOR WALL TURN

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

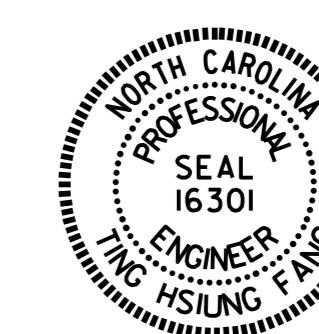
PILE EXCAVATION DEPTH "D"		
3'-0" Ø HOLE		
SOUND BARRIER WALL #2	FROM : STA. 8+84.33 -RPD4- (140.61 LT.) TO : STA. 434+06.08 -L- (145.00 RT.)	
WALL STATION -NW2-	PILE SPACING	DEPTH "D"
STA. 10+00 -NW2- TO STA. 12+00 -NW2-	10'-0"	14'-0"
	15'-0"	16'-0"
STA. 12+00 -NW2- TO STA. 14+70 -NW2-	10'-0"	10'-0"
	15'-0"	12'-0"
STA. 14+70 -NW2- TO STA. 17+25 -NW2-	10'-0"	9'-0"
	15'-0"	11'-0"
STA. 17+25 -NW2- TO STA. 19+05 -NW2-	10'-0"	11'-0"
	15'-0"	12'-0"
STA. 19+05 -NW2- TO STA. 22+00 -NW2-	10'-0"	9'-0"
	15'-0"	11'-0"
STA. 22+00 -NW2- TO STA. 23+85 -NW2-	10'-0"	9'-0"
	15'-0"	10'-0"
STA. 23+85 -NW2- TO STA. 25+95 -NW2-	10'-0"	10'-0"
	15'-0"	12'-0"
STA. 25+95 -NW2- TO STA. 26+55 -NW2-	10'-0"	8'-0"
	15'-0"	9'-0"

PILE VERTICAL 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 ≤ 26'	4 - #8 EA. FACE	#3 @ 1'-4" CTS.	10'-0"	H ≤ 26'	3 - #9 SHORT FACE 4 - #9 LONG FACE	#3 @ 1'-4" CTS.
	H ≤ 20'	4 - #8 EA. FACE	#3 @ 1'-4" CTS.		15'-0"	H ≤ 20'	3 - #9 SHORT FACE 4 - #9 LONG FACE
15'-0"	20' < H ≤ 27'	4 - #10 EA. FACE	#3 @ 1'-4" CTS.	15'-0"		20' < H ≤ 27'	3 - #11 SHORT FACE 4 - #11 LONG FACE
	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 ≤ 26'	4 - #6 EA. FACE	#3 @ 1'-4" CTS.	10'-0"	H ≤ 26'	3 - #9 SHORT FACE 4 - #9 LONG FACE	#3 @ 1'-4" CTS.
	H ≤ 20'	4 - #6 EA. FACE	#3 @ 1'-4" CTS.		15'-0"	H ≤ 20'	3 - #9 SHORT FACE 4 - #9 LONG FACE
15'-0"	20' < H ≤ 27'	4 - #7 EA. FACE	#3 @ 1'-4" CTS.	15'-0"		20' < H ≤ 27'	3 - #11 SHORT FACE 4 - #11 LONG FACE

BILL OF MATERIAL	
SOUND BARRIER WALL #2	32,285 S.F.
QUANTITIES PROVIDED ARE APPROXIMATE AND ARE FOR BID PURPOSES ONLY.	

PROJECT NO. U-2524D
GUILFORD COUNTY
STATION: 8+84.33 -RPD4-

SHEET 2 OF 9



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
STANDARD
SOUND BARRIER WALL #2

ASSEMBLED BY : M. SHAHIDI	DATE : 4/19/16
CHECKED BY : T. H. FANG	DATE : 4/20/16
DRAWN BY : MAA 6/11	ADDED 10/1/11
CHECKED BY : GM 6/11	REV. 1/15/14 RWW/TMG
	REV. 9/26/14 MAA/TMG

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

SHEET NO.	
SW-2	TOTAL SHEETS 9