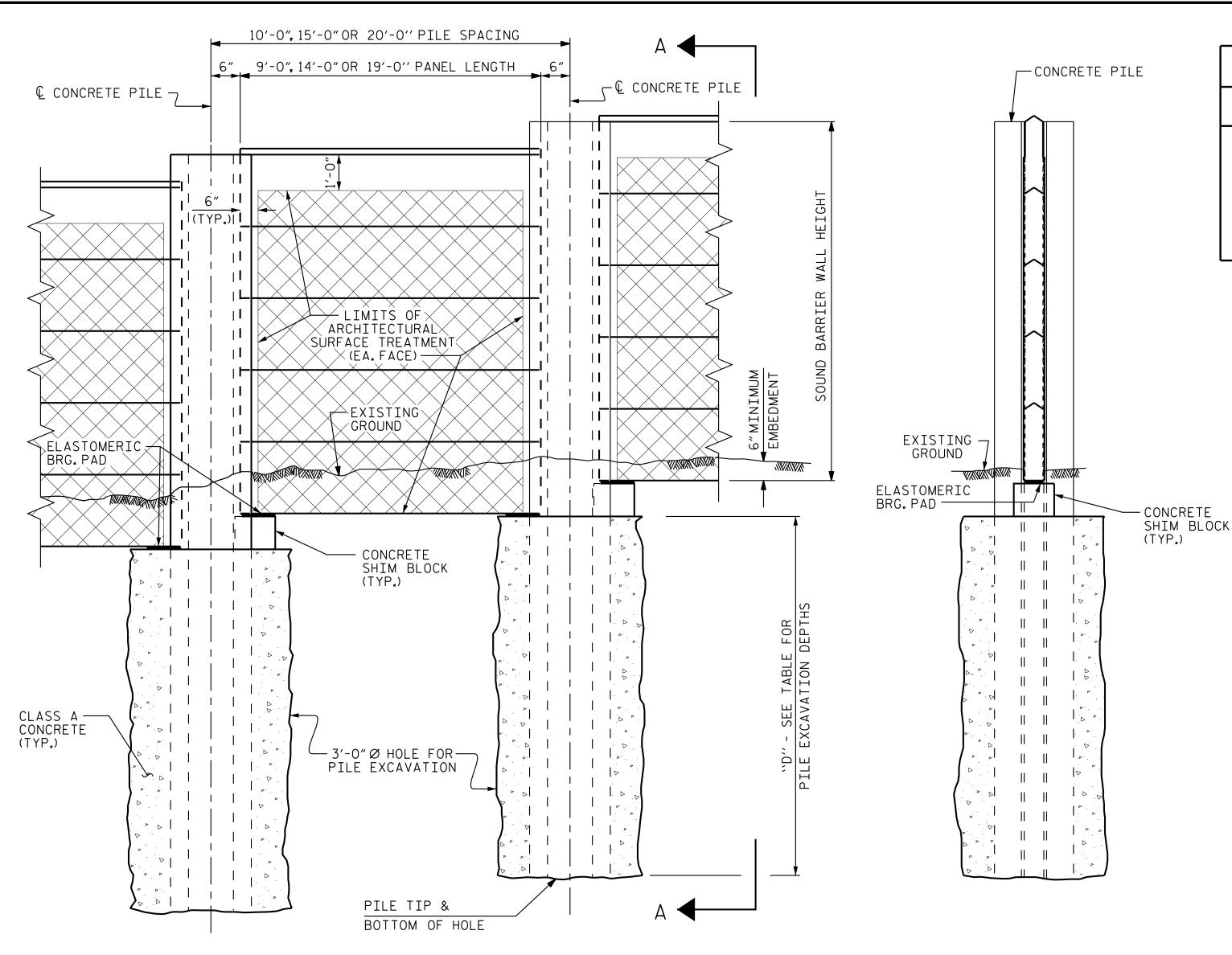
ASSEMBLED BY : D.D.LOWERY CHECKED BY : C.T.POOLE

DRAWN BY: MAA 6/II CHECKED BY: GM 6/II DATE : 11/19
DATE : 11/19

REV.5/18

MAA/TMG

MAA/THC



PILE EXCAVATION DEPTHS "D" FROM : STA. 10+00.00 WALL -NB3-TO :STA. 17+20.00 WALL HEIGHT PILE SPACING H < 15' 15' < H ≤ 20' | 20' < H ≤ 25' 3'-0" Ø 10'-0" 8'-0" 10'-0" 11'-0" HOLE 15'-0" 9'-0" 11'-0" 13′-0″ 15'-0" 20'-0" 10'-0" 13'-0"

NOTES

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 CONCRETE FOR PANELS AND CLASS A CONCRETE PILE EXCAVATION BACKFILL, IN ACCORDANCE WITH ARTICLE 1000-3 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.

IF A PILE SPACING DIFFERENT THAN THAT SHOWN IN THE ROADWAY PLANS IS PROPOSED, SUFFICIENT CLEARANCE SHALL BE MAINTAINED AROUND THE PROPOSED 15"RCP AT APPROXIMATE STATION 37+10.00 -L- (11+00.00 -NB3-). SEE ROADWAY PLANS FOR ADDITIONAL INFORMATION.

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 LAYOUT AND DETAILS OF #3 TIE BARS, SEE STD. SBW3.

PILE REINFORCING STEEL WIND EXPOSURE CATEGORY B, DESIGN WIND PRESSURE = 27 PSF					
		PILE TYPE I	PILE TYPE II	PILE TYPE III	PILE TYPE III ALT.
PILE SPACING	MAXIMUM WALL HEIGHT (H)	VERTICAL REINFORCING STEEL	VERTICAL REINFORCING STEEL	VERTICAL REINFORCING STEEL	VERTICAL REINFORCING STEEL
10'-0"	H ≤ 20′	4 - #5 EA.FACE	4 - #5 EA.FACE	3 - #5 SHORT FACE 4 - #5 LONG FACE	3 - #5 SHORT FACE 4 - #5 LONG FACE
	20'< H ≤ 25'	4 - #6 EA.FACE	4 - #5 EA.FACE	3 - #7 SHORT FACE 4 - #7 LONG FACE	3 - #7 SHORT FACE 4 - #7 LONG FACE
	25′< H ≤ 30′	4 - #7 EA.FACE	4 - #7 EA.FACE	3 - #8 SHORT FACE 4 - #8 LONG FACE	3 - #8 SHORT FACE 4 - #8 LONG FACE
15'-0"	H ≤ 20′	4 - #6 EA.FACE	4 - #5 EA.FACE	3 - #6 SHORT FACE 4 - #6 LONG FACE	3 - #6 SHORT FACE 4 - #6 LONG FACE
	20'< H ≤ 25'	4 - #7 EA.FACE	4 - #7 EA.FACE	3 - #8 SHORT FACE 4 - #8 LONG FACE	3 - #8 SHORT FACE 4 - #8 LONG FACE
	25′< H ≤ 30′	4 - #8 EA.FACE	4 - #8 EA.FACE	3 - #10 SHORT FACE 4 - #10 LONG FACE	3 - #10 SHORT FACE 4 - #10 LONG FACE
20'-0"	H ≤ 20′	4 - #6 EA.FACE	4 - #6 EA.FACE	3 - #7 SHORT FACE 4 - #7 LONG FACE	3 - #7 SHORT FACE 4 - #7 LONG FACE
	20'< H ≤ 25'	4 - #8 EA.FACE	4 - #8 EA.FACE	3 - #9 SHORT FACE 4 - #9 LONG FACE	3 - #9 SHORT FACE 4 - #9 LONG FACE
	25′< H ≤ 30′	4 - #10 EA.FACE	4 - #10 EA.FACE	3 - #11 SHORT FACE 4 - #11 LONG FACE	3 - #11 SHORT FACE 4 - #11 LONG FACE

BILL OF MATERIAL

QUANTITIES PROVIDED ARE APPROXIMATE AND ARE FOR BID PURPOSES ONLY.

ARCHITECTURAL SURFACE TREATMENT

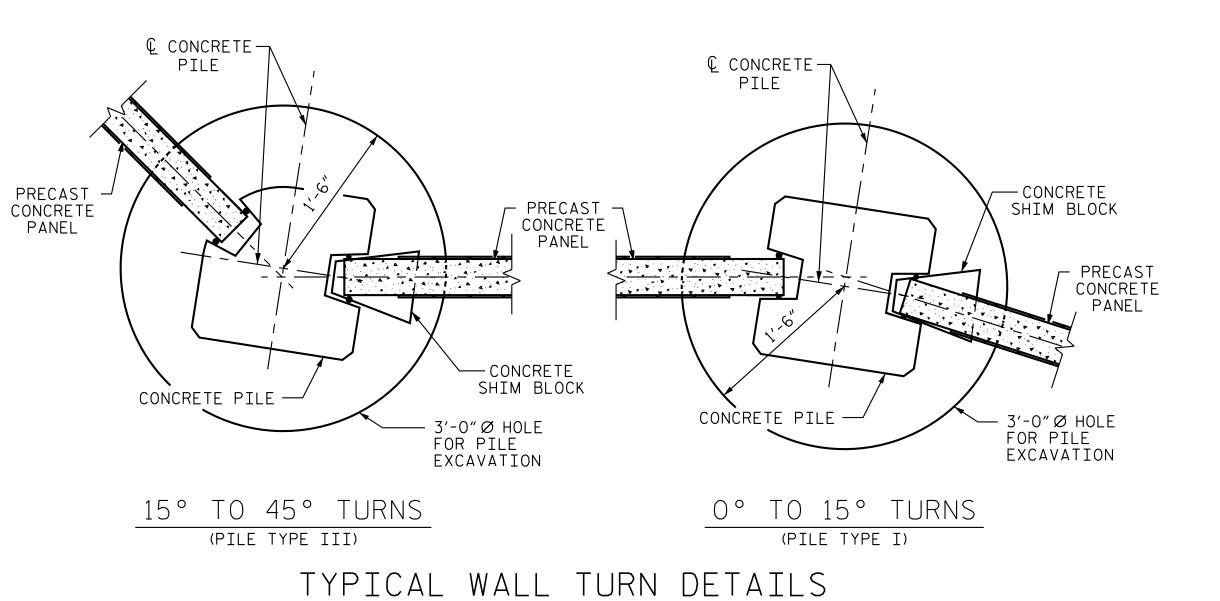
STANDARD BRICK FORMLINER

SOUND BARRIER WALL

TEXTURE OPTION:

STAIN OPTION:

ARCHITECTURAL SURFACE TREATMENT



ELEVATION

PRECAST CONCRETE PANEL

PRECAST CONCRETE PANEL

1"Ø BACKER ROD (TYP.)

PILE ROTATION LIMIT FOR WALL TURN

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

CONCRETE —

SECTION A-A

♠ PRECAST PANEL —

Kimley » Horn

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PROJECT NO. U-5108

MECKLENBURG COUNTY

STATION: 36+00.00 -L10+00.00 -NB3-

SHEET 1 OF 3

DEPARTMENT OF TRANSPORTATION
RALEIGH
STANDARD

SOUND BARRIER WALL No.-NB3-

REVISIONS

BY: DATE: NO. BY: DATE: SBW-1

3 TOTAL SHEETS
3 3

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

STD. NO. SBW1