SOUND BARRIER WALL NO.	BEGIN STATION	END STATION	STANDARD SOUND BARRIER WALL FOUNDATION TABLE NO.
NWL1	10+00	34+54	1
NWL2	10+00	20+50	1
NWL2	20+50	23+00	2
NWL2	23+00	24+00	1
NWL2	24+00	32+00	2
NWL2	32+00	33+60	1
NWL3	10+00	24+50	1
NWL3	24+50	28+50	2
NWL3	28+50	30+94	1
NWCD2	10+00	23+00	1
NWY41	10+00	11+00	3
NWY41	11+00	13+00	2
NWY41	15+20	19+50	3
NWY41	19+50	22+60	2
NWY41	22+60	28+80	3
NWY41	28+80	33+20	2
NWY42	10+00	12+00	1
NWY42	12+00	15+60	3
NWY42	15+60	17+80	1
NWY42	23+80	26+50	1
NWY4RPA	10+00	13+42	1
NWY4RPBD1	10+00	12+00	2
NWY4RPBD1	12+00	13+40	1
NWY4RPBD1	14+20	16+00	3
NWY4RPBD1	16+00	19+00	6
NWY4RPBD1	19+00	21+90	3
NWY4RPBD2	10+00	24+00	3

SOUND BARRIER WALL NO.	BEGIN STATION	END STATION	SOUND BARRIER WALL FOUNDATION DEPTH (S = PILE SPACING)		
			S ≤10 FT.	10 FT.< S ≤ 15 FT.	15 FT.<S ≤ 20 FT.
NWY41	13+00	15+20	11 FT.	13 FT.	14 FT.
NWY42	17+80	23+80	13 FT.	15 FT.	17 FT.
NWY4RPBD1	13+40	14+20	11 FT.	13 FT.	14 FT.

SOUND BARRIER WALL FOUNDATION TABLE No. 1
(Ø = 30°, c = 0 PSF, γ = 120 PCF,
GROUNDWATER BETWEEN FINISHED GRADE AND BOTTOM OF HOLE WITH FRONT SLOPE/FINISHED GRADE 6:1 OR FLATTER OR GROUNDWATER BELOW BOTTOM OF HOLE WITH FRONT SLOPE/FINISHED GRADE 2:1 OR FLATTER AND STEEPER THAN 3:1)

PILE SPACING (S)	WALL HEIGHT (H)		
	H ≤15 FT.	15 FT.< H ≤ 20 FT.	20 FT.< H ≤ 25 FT.
S ≤10 FT.	10 FT.	12 FT.	13 FT.
10 FT.< S ≤ 15 FT.	11 FT.	13 FT.	16 FT.
15 FT.< S ≤ 20 FT.	12 FT.	15 FT.	18 FT.

SOUND BARRIER WALL FOUNDATION TABLE No. 2
(Ø = 30°, c = 0 PSF, γ = 120 PCF,
GROUNDWATER BELOW BOTTOM OF HOLE WITH FRONT SLOPE/FINISHED GRADE 3:1 OR FLATTER AND STEEPER THAN 6:1)

PILE SPACING (S)	WALL HEIGHT (H)		
	H ≤15 FT.	15 FT.< H ≤ 20 FT.	20 FT.< H ≤ 25 FT.
S ≤10 FT.	8 FT.	10 FT.	11 FT.
10 FT.< S ≤ 15 FT.	9 FT.	11 FT.	13 FT.
15 FT.< S ≤ 20 FT.	10 FT.	13 FT.	15 FT.

SOUND BARRIER WALL FOUNDATION TABLE No. 3
(Ø = 30°, c = 0 PSF, γ = 120 PCF,
GROUNDWATER BELOW BOTTOM OF HOLE WITH FRONT SLOPE/FINISHED GRADE 6:1 OR FLATTER)

PILE SPACING (S)	WALL HEIGHT (H)		
	H ≤15 FT.	15 FT.< H ≤ 20 FT.	20 FT.< H ≤ 25 FT.
S ≤10 FT.	7 FT.	9 FT.	10 FT.
10 FT.< S ≤ 15 FT.	8 FT.	10 FT.	12 FT.
15 FT.< S ≤ 20 FT.	9 FT.	11 FT.	13 FT.

SOUND BARRIER WALL FOUNDATION TABLE No. 6
(Ø = 34°, c = 0 PSF, γ = 120 PCF,
GROUNDWATER BELOW BOTTOM OF HOLE WITH FRONT SLOPE/FINISHED GRADE 6:1 OR FLATTER)

PILE SPACING (S)	WALL HEIGHT (H)		
	H ≤15 FT.	15 FT.< H ≤ 20 FT.	20 FT.< H ≤ 25 FT.
S ≤10 FT.	7 FT.	8 FT.	9 FT.
10 FT.< S ≤ 15 FT.	7 FT.	9 FT.	11 FT.
15 FT.< S ≤ 20 FT.	8 FT.	10 FT.	12 FT.

STANDARD SOUND BARRIER WALL FOUNDATION TABLES

(PILE EXCAVATION DEPTHS, "D" (FT.) FOR 36"DIA. HOLE; ADD 1 FT. TO D FOR 30"DIA. HOLE)

PROJECT NO. U-2579B
FORSYTH COUNTY
STATION: SEE TABLE
SHEET 4 OF 4

SHEET 4 OF 4

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH

SOUND BARRIER WALL

NORTH CAROLINA PROFESSIONAL SEAL 23371 ENGINEER VIPUL A. PATEL

DocuSigned by: Vipul A. Patel
339B086CBE1C486...
8/5/2014

REVISIONS						SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:	W-13
1			3			TOTAL SHEETS
2			4			13

DRAWN BY : T. H. CARROLL DATE : 5/13/14
CHECKED BY : V. A. PATEL DATE : 5/14/14

04-AUG-2014 16:07
R:\Structures\Plans\Walls\U2579B_SD_SBW.dgn
lsutton