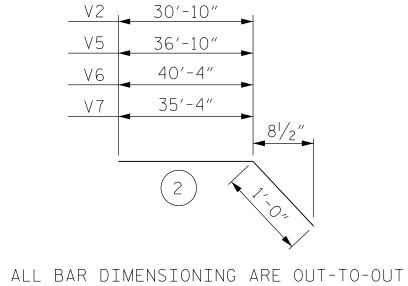


BAR TYPES



STRANDS

No.

16

16

16

16

16

BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT							
S7	1	#4	1	4'-5"	3							
S10	12	#4	1	4'-7"	37							
S13	39	#4	1	5′-0″	131							
S16	1	#4	1	3'-9"	3							
٧7	2	#5	2	36′-4″	76							
A14 (SPECIAL PILE)												
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT							
S6	35	#4	1	5′-1″	119							
S7	1	#4	1	4'-5"	3							
S11	9	#4	1	4'-8"	29							
S16	1	#4	1	3'-9"	3							
٧2	2	#5	2	31′-10″	67							
A15 (SPECIAL PILE)												
BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT							
S7	9	#4	1	4'-5"	27							
S14	35	#4	1	4'-9"	112							
S15	1	#4	1	4'-1"	3							
S17	1	#4	1	3′-5″	3							
V2	2	#5	2	31′-10″	67							

BILL OF MATERIAL

A9 (SPECIAL PILE)

A11 (SPECIAL PILE)

A13 (SPECIAL PILE)

#4

#4

#4

#4

SIZE

#4

#4

#4

#5

NUMBER

10

41

NUMBER

14

44

S8

S15

٧5

S11

S15

S17

SIZE | TYPE | LENGTH | WEIGHT

3′-7″

4'-6"

4'-10"

4'-3"

2 | 37'-10" | 79

TYPE | LENGTH | WEIGHT

4'-4"

4'-8"

4'-1"

3′-5″

2 | 41'-4"

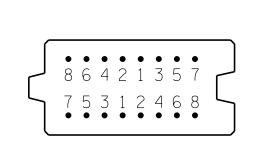
31

133

138

3

87



PATTERN FOR BURNING

NOTES

QUANTITIES FOR ONE PILE

STEEL

LB.

249

250

221

212

PILE REINFORCING 8,000 PSI 0.6" Ø L.R.

CONCRETE

C.Y.

3.4

3.8

3.5

3.0

2.8

THE SHEET PILE WIDTH DIMENSIONS ARE NOMINAL. THESE DIMENSIONS MAY BE SHORTENED BY THE MANUFACTURER UP TO $\frac{1}{2}$ "TO ALLOW FOR SHEET PILE FIT-UP IN ITS FINAL POSITION. NO CHANGES SHALL BE MADE TO THE TONGUES OR GROOVES.

A9 (SPECIAL PILE)

A11 (SPECIAL PILE)

A13 (SPECIAL PILE)

A14 (SPECIAL PILE)

A15 (SPECIAL PILE)

THE WATER/CEMENT RATIO FOR PRESTRESSED CONCRETE SHEET PILES SHALL NOT EXCEED 0.40.

PRESTRESSED CONCRETE SHEET PILES SHALL CONTAIN CALCIUM NITRITE CORROSION INHIBITOR IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, EXCEPT THAT THE INHIBITOR SHALL BE APPLIED AT A RATE OF 4.0 GALLONS PER CUBIC YARD. NO SEPARATE PAYMENT WILL BE MADE FOR THE ADDITION OF CALCIUM NITRITE, AS IT IS CONSIDERED INCIDENTAL TO THE VARIOUS PAY ITEMS.

PRESTRESSED CONCRETE SHEET PILES SHALL CONTAIN A MINIMUM OF 25% FLY ASH CLASS F OR A MINIMUM OF 40% GROUND GRANULATED BLAST FURNACE SLAG (GGBFS). ADDITIONALLY, SILICA FUME SHALL BE SUBSTITUTED FOR A MINIMUM 5% OF THE PORTLAND CEMENT BY WEIGHT IN THE PRESTRESSED CONCRETE SHEET PILES. MINERAL ADMIXTURES SHALL REPLACE THE CEMENT CONTENT AT A 1:1 RATIO BY WEIGHT. NO PAYMENT WILL BE MADE FOR THIS SUBSTITUTION, AS IT IS CONSIDERED INCIDENTAL TO THE VARIOUS PAY ITEMS.

PROJECT NO. B-4863

CARTERET COUNTY

STATION: 34+75.00 -L-

SHEET 8 OF 16

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

CONCRETE SHEET PILE RETAINING WALL SHEET PILE DETAILS

SEAL 037403

Toocusigned by:

Brandon Grun

3/9/2020

DOCUMENT NOT CONSIDERED

Grandon Green	3/9/2020							
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SIGNATURES	S COMPLETED	2			4			2