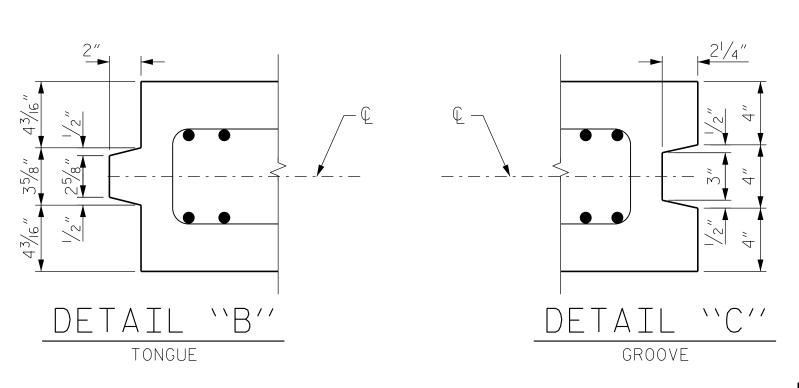


ALL BAR DIMENSIONING ARE OUT-TO-OUT

BAR TYPES

	A1 (STARTER PILE)					
↓	BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
<u> </u>	S1	14	#4	1	5'-4"	50
T	S2	44	#4	1	6'-1"	179
	S3	1	#4	1	4'-11"	4
(TYP.)	S4	1	#4	1	3'-7"	3
.						
	V1	4	#5	2	40'-10"	171
	A2 (STARTER PILE)					
	BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
	S1	9	#4	1	5'-4"	33
	S2	35	#4	1	6'-1"	143
	S3	1	#4	1	4'-11"	4
	S4	1	#4	1	3'-7"	3
	V2	4	#5	2	31′-10″	133

BILL OF MATERIAL



QUANTITIES FOR ONE PILE								
PILE	REINFORCING STEEL	8,000 PSI CONCRETE	0.6″Ø L.R. STRANDS					
	LB.	C.Y.	No.					
A1 (STARTER PILE)	407	4.7	22					
A2 (STARTER PILE)	316	3.4	22					

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PATTERN FOR BURNING

NOTES

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.

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 6 OF 16

SEAL 037403

NGINEER.

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

RALEIGH

CONCRETE SHEET PILE RETAINING WALL SHEET PILE DETAILS

Brandon Grun 3/9/2020

REVISIONS

NO. BY: DATE: NO. BY: DATE: W-06

FINAL UNLESS ALL
SIGNATURES COMPLETED 2 4 24