

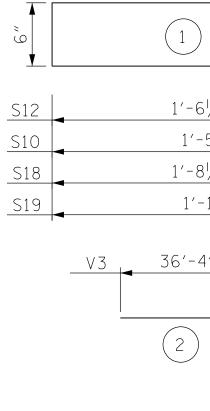
+

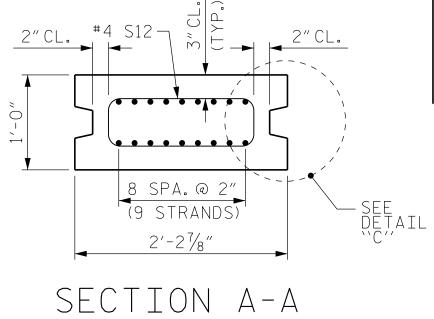
+

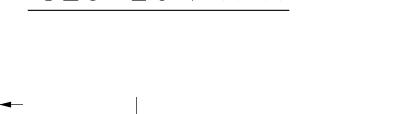
06-MAR-2020 10:23 \$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$DGN\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$ bgreen AT SD-298755

	-					
BAR TYPES	BILL OF MATERIAL					
	A10 (SPECIAL PILE)					
	BAR	NUMBER	SIZE	TYPE	LENGTH	WEIGHT
	S12	11	# 4	1	4'-10"	36
	S10	1	# 4	1	4'-7"	4
	S18	40	# 4	1	5'-2"	139
1'-6 ¹ /2"	S19	1	#4	1	3'-11"	3
1'-5"						
1'-81/2"	V3	2	#5	2	37'-4"	78
1'-1"						
2 36'-4" 8 ¹ / ₂ " 8 ¹ / ₂ "						
DIMENSIONING ARE OUT-TO-OUT	J					

0.6″ØL.R.GRADE 270 STRANDS					
AREA	ULTIMATE STRENGTH	APPLIED prestress			
(SQUARE INCHES)	(LBS.PER STRAND)	(LBS.PER STRAND)			
0.217	58,600	43,950			





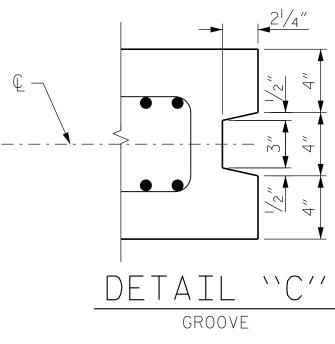


 \frown

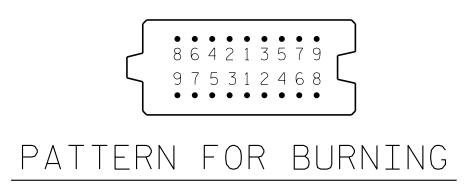
DETAIL ``B''

TONGUE

_ - _ - _ .



ALL BAR



NOTES

THE SHEET PILE WIDTH DIMENSIONS ARE NOMINAL. THESE DIMENSIONS MAY BE SHORTENED BY THE MANUFACTURER UP TO 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.

QUANTITIES FOR ONE PILE					
PILE	REINFORCING STEEL	8,000 PSI Concrete	0.6″ØL.R. Strands		
	LB.	C.Y.	No.		
A10 (SPECIAL PILE)	260	3.7	18		

	_	TNO.		-4863	3
	<u>CARTERET</u> COUNTY STATION: <u>34+75.00</u> -L-				
	SHEET 9 OF 16 state of North Carolina DEPARTMENT OF TRANSPORTATION RALEIGH				
Docusigned by: Brandon Grun 3/9/2020	CONCRETE SHEET PILE RETAINING WALL SHEET PILE DETAILS				
Brandon Grun 3/9/2020 2C7028B6BB61448	REVISIONS				SHEET NO.
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED	NO. BY: 1 2		NO. ВҮ: 3 4	DATE:	W-09 Total Sheets 24