	WALL		NAIL RETAININ (SQUARE FEET		SOIL NAIL VERIFICATION TESTS	SOIL N PROOF T	
	13		3,280 [*]		3	15	
	FC	ORM LINER A	RCHITECTURAL F	FINISH		3 , 280*	
	нс	DRIZONTAL DE	RAINS (CONTIGE	NCY)		105 L	
	* INCLUD	ES RETAINING	WALL EMBEDMENT				
SOIL NAIL RETAINING WALL #13							
STAL-	OFFSET FROM -L- (LT) FT.	ELEV. @ Top of Wall	BOW PROPOSED FINISHED GRADE	TOP OF Levelin Pad		WALL DESIC HEIGHT	
344+68.69	36.10	2887.55	2887.55	2886.5	5 1.00	1.0	
344+75.00	58.90	2889.47	2886.19	2885.1	9 1.00	3.2	
344+81.80	21.50	2892.87	2886.49	2885.4	9 1.00	6.3	
344+85.00	21.50	2894.06	2886.72	2885.7	2 1.00	7.3	
345+00.00	21.50	2900.62	2887.76	2886.7	6 1.00	12.8	
345+50.00	21.50	2911.77	2891.21	2890.2	1 1.00	20.5	
346+00.00	21.50	2916.19	2894.31	2893.3	1 1.00	21.8	
346+50.00	21.50	2907.60	2897.31	2896.3	1 1.00	10.2	
346+60.00	21.50	2904.27	2897.92	2896.9	2 1.00	6.35	
346+70.00	21.50	2900.93	2898.52	2897.5		2.42	
346+76.12	21.50	2898.89	2898.89	2897.8		1.00	
FOR SINGLE FAC THE STANDARD S A HANDRAIL IS ATTACHMENT DE A FENCE IS REC ATTACHMENT DE	CED PRECAST SPECIFICATI REQUIRED O TAILS. QUIRED ON T TAILS.	CONCRETE B. ON, AND SIMU ON TOP OF RE OP OF RETAI	JLATED STONE F TAINING WALL NING WALL #14.	D), SEE ROA ORM LINER #13. SEE RO SEE ROADV	S PROVISION. ADWAY PLANS, SECTION FINISH SPECIAL PRO DADWAY PLANS FOR FEN VAY PLANS FOR FENCE REINFORCED CONCRETE	VISION. NCE	
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PREPARED BY: R. KRAL	DATE: 6/2/2022
REVIEWED BY: M. BREWER	DATE: 6/2/2022

ESTIMATED SOIL NAIL WALL QUANTITIES						
RETAINING SOIL NAIL RETAINING WALLS SOIL NAIL SOIL NAIL (SQUARE FEET) VERIFICATION TESTS PROOF TESTS						
14	3 , 540 *	3	15			
FORM L	3,540* SF					
HORIZON	135 LF					

* INCLUDES RETAINING WALL EMBEDMENT

SOIL NAIL RETAINING WALL #14							
STAL-	OFFSET FROM -L- (LT) FT.	ELEV. @ Top of Wall	BOW PROPOSED FINISHED GRADE	TOP OF LEVELING PAD	ESTIMATED WALL EMBEDMENT FT.	WALL DESIGN HEIGHT "H"	
347+94.84	21.50	2906.53	2906.53	2905.53	1.00	1.00	
348+00.00	21.50	2909.11	2906.88	2905.88	1.00	2.23	
348+15.00	21.50	2913.56	2907.93	2906.93	1.00	5.63	
348+25.00	21.50	2914.39	2908.62	2907.62	1.00	5.77	
348+45.00	21.50	2924.66	2910.04	2909.04	1.00	14.62	
348+60.00	21.50	2927.22	2911.06	2910.06	1.00	16.16	
349+00.00	21.50	2930.11	2913.84	2912.84	1.00	16.27	
349+50.00	21.50	2933.29	2917.38	2916.38	1.00	15.91	
350+00.00	21.50	2934.82	2920.91	2919.91	1.00	13.91	
350+50.00	21.50	2928.51	2924.38	2923.38	1.00	4.13	
350+60.00	21.50	2926.39	2925.07	2924.07	1.00	1.32	
350+64.13	21.50	2925.35	2925.35	2924.35	1.00	1.00	

NOTES (continued):

THE PROPOSED RIGHT OF WAY (ROW) BOUNDARY IS 18.5 FT FROM THE FACE OF RETAININ AND #14. THE PROPOSED PERMANENT EASEMENT (PE) IS 39.0 FEET AND 33.5 FEET FROM T OF RETAINING WALL #13 AND #14, RESPECTIVELY. SOIL NAILS MAY NOT BE INSTALLED BE PE BOUNDARY.SEE "SOIL NAIL WALL - TYPICAL SECTION" DETAIL.

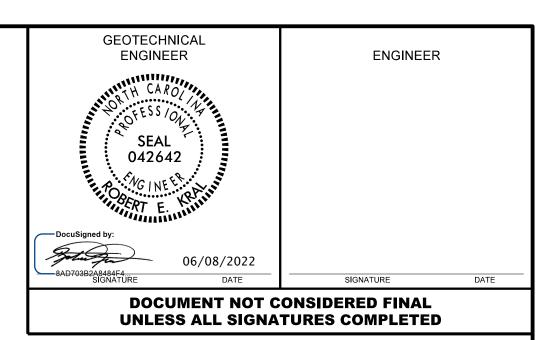
IF GROUNDWATER IS ENCOUNTERED BEHIND THE FACE OF RETAINING WALLS #13 AND #14, HORIZONTAL DRAINS MAY BE REQUIRED AS DIRECTED BY THE ENGINEER. FOR HORIZONTAL DRAINS, SEE THE RETAINING WALL HORIZONTAL DRAIN DETAIL.

WHERE ROCK IS PRESENT IN THE WALL ENVELOPE, CONTROLLED BLASTING IS RECOMMENDED, BUT NOT REQUIRED, TO MAINTAIN THE NEAT EXCAVATION LINE. VOIDS, RESULTING FROM BLASTING OR EXCAVATING, THAT EXTEND BEYOND THE NEAT LINES ARE TO BE FILLED WITH A COMBINATION OF SHORT SOIL NAILS, WELDED WIRE, AND SHOTCRETE, AT THE DISCRETION OF THE ENGINEER. THE COSTS ASSOCIATED WITH THIS WORK WILL BE CONSIDERED INCIDENTAL TO WALL CONSTRUCTION AND NO ADDITIONAL COMPENSATION WILL BE MADE.FOR BLASTING, SEE THE BLASTING PROVISION.

WHERE CONSTRUCTION VOIDS EXIST ALONG THE TOP OF RETAINING WALLS #13 AND #14, THE CONTRACTOR SHOULD BE PREPARED TO FORM THE CANTILEVERED SECTION OF THE CIP REINFORCED CONCRETE FACE TO THE TOP OF WALL ELEVATION. THE CONSTRUCTION VOID SHOULD BE FILLED WITH CONCRETE OR SHOTCRETE PRIOR TO CONSTRUCTION OF THE CONCRETE DITCH. ADDITIONAL WALL FACE REINFORCEMENT OR SOIL NAILS MAY BE REQUIRED FOR TALLER THAN TYPICAL CANTILEVER FACE HEIGHTS.



 WALL	
FAC OND	



PROJECT NO.: A-0009CB

	GRAHAM	COUNTY
RETAINING WALL #13:	-L- 344+69, 36' LT TO 346+76	, 22' LT
RETAINING WALL #14:	-L- 347+95, 22' LT TO 350+64	, 22' LT
SHEET 2 O	F 4	

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

RETAINING WALL #13 AND #14 SOIL NAIL RETAINING WALL

REVISIONS						SHEET
NO.	BY	DATE	NO.	BY	DATE	NO.
1			3			W13-2
2			4			VV13-2