GEOTECH COMPUTED BY: KND DATE: 8/25/2022; PDI COMPUTED BY TLC DATE: 9/25/2023
GEOTECH CHECKED BY: MJW DATE: 8/26/2022

(2-3-23)

PROJECT NO.	SHEET NO.
I-2513AA/AB	3G-3

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

I-2513AA & AB
GRAND TOTALS

SUMMARY OF SUBSURFACE DRAINAGE

LINE	Station	Station	Location LT/RT/CL	Drain Type* UD/BD/SD	LF
-Y-	55+00	72+00	LT to RT	SD	3400
-Y_WB-	10+44	11+75	LT	SD	150
-Y_EB-	10+44	13+25	RT	SD	300
-RPC-	22+25	29+00	LT to RT	SD	1350
CONTINGENCY				SD	2000
				TOTAL LF:	7200

*UD = Underdrain
*BD = Blind Drain
*SD = Subsurface Drain

SUMMARY OF AGGREGATE SUBGRADE/STABILIZATION

LINE	Station	Station	Aggregate Type* ASU(1/2)/ AST	Aggregate Thickness INCHES [8" for ASU(2)]	Shallow Undercut CY	Class IV Subgrade Stabilization TONS	Geotextile for Subgrade Stabilization SY	Stabilizer Aggregate TONS	Class IV Aggregate Stabilization TONS
Y	18+00	93+44	ASU(2)	8		15675	34850		
Y_EB	10+00	13+25	ASU(2)	8		1860	4150		
Y_WB	10+00	15+00	ASU(2)	8		665	1500		
-L1 EB-	37+52	66+10	ASU(2)	8		2710	6010		
-L1 WB	38+02	66+00	ASU(2)	8		2730	6050		
-RPC-	10+00	48+68	ASU(2)	8		9030	20055		
-RPDB-	10+00	20+70	ASU(2)	8		1050	2330		
-RPD-	10+00	16+96	ASU(2)	8		760	1690		
-Y5RPA-	21+27.10	27+49	ASU(2)	8		1620	3590		
-Y5RPA-	10+00	18+19.60	ASU(2)	8		Quantities are included above in -Y-			
-Y5RPB-	10+00	13+15	ASU(2)	8					
-Y5RPC-	10+00	15+65	ASU(2)	8					
CONTINGENCY								1000	
CONTINGENCY			1	12	2000	4000	6000	0	0
			TOTAL CY/TONS/SY:		2000	40100**	86225**	1000	0

*ASU(1/2) = Aggregate Subgrade (Type 1 or 2)
*AST = Aggregate Stabilization
**Total tons of "Class IV Subgrade Stabilization" and total square yards of "Geotextile for Subgrade Stabilization" are only the estimated quantities for ASU(1/2)/AST and may only represent a portion of the subgrade stabilization and geotextile quantities shown in the Item Sheets of the Proposal.

SUMMARY OF ROCK PLATING

LINE	Beginning Slope (H:V)	Approx. Station	Ending Slope (H:V)	Approx. Station	Location LT/RT	Rock Plating Detail No. 1/2/3/4	Riprap Class* 1/2/B	Rock Plating SY
-Y_WB-	1.5:1	29+00	1.5:1	36+00	LT	2/3		5200
							TOTAL SY:	5200

*Use Class 1, 2 or B riprap if riprap class is not shown for rock plating location.

ESTIMATED QUANTITIES FOR ROCK FILL STEEPENED SLOPE SECTION**

LINE	Beginning Slope	Approx. Station	Beginning Slope	Approx. Station	Location LT/RT	Geotextile for Drainage, Type 2 SY	RIPRIP Class 2 Tons*	Select Material Class IV Tons***
-L1_EB-	1.75:1	59+50	1.75:1	60+50	LT	1650	5500	65

*Based on Unit Weight of 105 pcf
** Refer to Sheet No. 2G-1
***Based on Minimum 18" depth.

SUMMARY OF REINFORCED SOIL SLOPE

LINE	Approx. Begin Station	Approx. End Station	Location LT/RT	RSS QUANTITY SY
-Y-	59+50	61+50	LT	1375
			TOTAL SY:	1375

*Refer to Sheets 2G-2 and 2G-3.

SUMMARY OF EMBANKMENT WAITING PERIODS

LINE	Station	Station	MONTHS
-RPC-	23+00	30+50	5

SUMMARY OF SETTLEMENT GAUGES

Gauge No.	LINE and Station	Offset	
		Distance FT	Direction LT/RT
1	-RPC- 24+00	25	RT
2	-RPC- 26+00	25	RT
3	-RPC- 28+00	25	RT
4	-RPC- 30+00	0	RT
5	-Y5RPA- 21+50	25	RT
6	-Y5RPA- 21+65	25	RT
	TOTAL GAUGES (EACH):		6

SUMMARY OF BRIDGE WAITING PERIODS

Bridge Description	End Bent/ Bent No.	MONTHS
Bridge No. 902 on -Y5RPA- over Blue Ridge Southern RR	2	3