RKA-RAL-DES-14

COMPUTED BY:	HR	DATE:	6/27/2019
CHECKED BY:	CMKR	DATE:	7/1/2019

PROJECT NO.	SHEET NO.
U-5827	3B-1

RAMEY KEMP & ASSOCIATES
5808 Faringdon Place, Suite 100 • Raleigh • North Carolina • 27609
Phone (919) 872-5115

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

SUMMARY OF EARTHWORK

In Cubic Yards

LINE	Station	Station	Uncl. Excav.	Embank. +%	Borrow	Waste
L	22+50.00	52+50.00	35002	3708	0	31294
SUBTOTAL			35002	3708	0	31294
L	52+50.00	66+00.00	17232	1093	0	16139
Y3A	10+58.00	12+50.00	10	125	115	0
Y3B	10+00.00	11+20.00	363	0	0	363
Y4	10+50.00	11+15.00	241	19	0	222
Y6	200+00.00	206+00.00	465	106	0	359
SUBTOTAL			18311	1343	115	17083
TOTAL			53313	5051	115	48377
ADJUSTMENTS DUE TO						
Est. Loss Due To Clearing And Grubbing			-807			-807
Earth Waste to Replace Borrow					-115	-115
PROJECT TOTAL			52506	5051	0	47455
Est. 5% to Replace Topsoil in Borrow Pits					0	
GRAND TOTAL			52506	5051	0	47455
SAY			52700		0	

Shoulder Borrow	180 CY
Est. Drainage Ditch Excav.	400 CY
Select Granular Material	1200 CY
Geotextile For Soil Stab.	1900 SY
Estimate Undercut	1200 CY
Estimate Shallow Undercut	200 CY
Class IV Subgrade Stab.	400 TONS

SUMMARY OF EXISTING ASPHALT PAVEMENT REMOVAL

LINE	Station	Station	LOC LT/RT/CL	YD^2
L	22+86.00	30+25.00	LT	697
L	51+25.00	52+38.00	LT	428
Y3B	10+00.00	11+00.00	CL	474
Y4	10+24.00	11+07.00	CL	426
			TOTAL:	2025
			SAY:	2030

SUMMARY OF EXISTING CONCRETE PAVEMENT REMOVAL

LINE	Station	Station	LOC LT/RT/CL	YD^2
L	10+58.00	11+05.00	RT	64
			TOTAL:	64
			SAY:	70

Approximate quantities only. Unclassified excavation, shoulder borrow, fine grading, clearing and grubbing, and removal of existing pavement will be paid for at the lump sum price for "Grading".

PARCEL INDEX

PARCEL NO.	PLAN SHEET NO.	PROPERTY OWNER NAME	R/W AREA TAKEN (SF)	TEMP CONST ESMT (SF)	PERM DRAIN ESMT (SF)	PERM UTIL ESMT (SF)
1	4, 5	RESEARCH TRIANGLE FOUNDATION OF NC	0	0	0	0
2	5, 6	DSRK INVESTMENTS LLC	85140	84871	3810	96
3	6	TOWN OF MORRISVILLE	0	19951	0	1668
4	6, 7	TERRACE II AT BECKENRIDGE ASSOC INC	16659	22279	0	2219
5	6	VANESSA CARO	0	245	0	0
6	6, 7	THE LAKE II AT BRECKENRIDGE TOWNHOMES ASSOC	8820	13933	0	5566
7	7	SHERAJUL ISLAM, MD & KAMRUN NAHAR	0	339	0	3705
8	7	SHERAJUL ISLAM, MD & KAMRUN NAHAR	0	3306	0	6368
9	7	MARK W SEAGONDOLLAR TRUSTEE	0	0	0	0
10	8	MARTHA MAYNARD & BARBARA J. VEASEY	9093	3454	0	0
11	8	MANCHESTER PARK HOMEOWNERS ASSOCIATION	19	3552	0	579
12	8	MCCRIMMON POINTE CONDOMINIUMS, LLC	0	2714	0	0
13	8	MILTON M. MAYNARD, BILLY W. MAYNARD, MARGARET S. MAYNARD, HUEY W. MAYNARD, JR., & GLORIA C. MAYNARD	0	0	0	296

HANDRAIL SUMMARY

PEDESTRIAN SAFETY RAIL

LINE	Station	Station	LOC LT/RT/CL	Length (LF)
L	25+44.25	28+74.67	LT	330.42
L1	10+01.22	11+95.54	LT	194.32
			TOTAL:	524.74
			SAY:	550

"N" = DISTANCE FROM EDGE OF LANE TO FACE OF GUARDRAIL
TOTAL SHOULDER WIDTH = DISTANCE FROM EDGE OF TRAVEL LANE TO SHOULDER BREAK POINT.
FLARE LENGTH = DISTANCE FROM LAST SECTION OF PARALLEL GUARDRAIL TO END OF GUARDRAIL.
W =
TOTAL
NG = NON-GATING IMPACT ATTENUATOR TYPE TL-3

GUARDRAIL SUMMARY

LINE	BEG. STA.	END STA.	LOC.	LENGTH (LF) STRAIGHT	LENGTH (LF) SHOP CURVED	LENGTH (LF) DOUBLE FACED	WARRANT POINT APPR. END	WARRANT POINT TRAIL. END	"N" DIST FROM E.O.L.	TOTAL SHLDR WIDTH	FLARE LENGTH APPR. END	FLARE LENGTH TRAIL. END	W APPR. END	W TRAIL. END	ANCHORS III	ANCHORS B-77	ANCHORS GREU TL-3	ANCHORS M-350	ANCHORS AT-1	ANCHORS CAT-1	ANCHORS TES	IMP. ATTEN. IA-MASH, TL-3 EA	IMP. ATTEN. G	IMP. ATTEN. NG	REMOVE & RESET EXISTING GUARDRAIL (LF)	SINGLE FACED CONC. BARRIER (STD 857.01) - (LF)	REMARKS
L	26+02.00	29+78.00	LT				28+28.00	26+02.63	2								1			1					375		REMOVE AND RESET EX. ANCHOR UNITS
L	31+54.00	35+91.50	LT	437.5			32+08.00	35+32.00	2		50	50	1	1			2										
L	31+78.26	32+55.50	MED LT & RT	112.50					8.1 MIN							2						1		X		396	
L	34+53.69	35+30.87	MED LT & RT	112.50					8.1 MIN							2						1		X			
L	55+00.00	57+00.00	RT	200.0			56+00.00	57+00.00	2	10' BERM	50		1				1			1							
L	58+54.10	CONT. TO -L1-	LT	300.0			61+07.00	59+44.50	2	10' BERM	50	50	1	1			2										
L1	CONT. FROM -L-	12+46.87																									
			SUBTOTAL	1162.50												4	6			2		2			375	396	
	DEDUCT ANCHORS:																										
	GREU TL-3	6	50	-300.00																							
	CAT-1	2	6.25	-12.50																							
	B-77	4	18.75	-75.00																							
	ADDITIONAL POSTS =	5	TOTAL	775.00												4	6			2		2			375	396	
			SAY	850																							

R/W REV. 1: 1/17/19 REVISED PUE ON PARCELS 4, 6, & 7. REMOVED PUE ON PARCEL 8. ADDED PUE ON PARCEL 11. ADDED PARCEL 13.
R/W REV. 2: 6/24/19 REVISED R/W, PDE AND TCE ON PARCEL 2.

RKA-RAL-DES-14,7/1/2019,S:\2015 Projects\15268 US827\Roadway\Proj\US827_Combined_Summary.xls