

TREE REMOVAL (6 TO 15 UNIT DIA)		
STATION	OFFSET (FOOT)	QUANTITY (UNIT)
ROUTE 31		
109+52	59 LT	10
109+62	59 LT	12
109+74	59 LT	12
134+53	45 RT	6
134+65	39 RT	6
134+68	40 RT	12
134+75	42 RT	6
134+87	42 RT	7
134+98	49 RT	12
135+05	47 RT	15
135+52	50 RT	10
135+55	51 RT	8
135+62	54 RT	8
135+70	55 RT	8
135+76	62 RT	8
136+16	52 LT	2
136+62	52 LT	2
137+16	54 LT	10
137+46	50 LT	8
138+94	58 LT	6
139+00	59 LT	12
139+17	55 LT	8
139+22	49 LT	8
143+27	50 RT	14
143+71	49 RT	14
147+28	64 LT	12
ROUTE 176		
213+94	59 RT	5
214+05	57 RT	5
214+57	59 RT	5
215+00	59 RT	5
215+46	59 RT	5
217+94	65 RT	5
218+63	85 RT	9
225+23	49 RT	12
225+23	51 RT	8
225+24	64 RT	8
227+88	56 RT	1
227+90	54 RT	1
227+91	51 RT	1
230+76	49 RT	15
230+91	44 RT	12
231+02	57 RT	6
231+05	47 RT	6
231+38	53 RT	6
231+41	42 RT	6
231+44	56 RT	3
231+46	55 RT	6
231+49	45 RT	6
231+77	54 RT	7
232+31	46 RT	12
232+56	45 RT	12
232+75	56 RT	6
232+94	44 RT	12
234+82	52 RT	8
235+08	50 RT	12
238+02	43 RT	12
238+60	41 RT	12
TERRA COTTA AVENUE		
303+40	197 RT	6
303+41	110 RT	12
303+42	94 RT	12
303+42	104 RT	6
303+43	131 RT	12
303+43	177 RT	10
303+43	190 RT	15
303+44	99 RT	8
303+44	145 RT	12
303+46	108 RT	6
303+48	158 RT	8
303+49	121 RT	8
303+51	39 RT	12
TOTAL QUANTITY = 592		

TREE REMOVAL (OVER 15 UNIT DIA)		
STATION	OFFSET (FOOT)	QUANTITY (UNIT)
ROUTE 31		
134+68	56 RT	20
135+69	66 RT	36
138+73	57 LT	18
144+20	49 RT	22
147+33	53 LT	22
ROUTE 176		
206+27	38 LT	18
206+50	40 LT	24
206+66	42 LT	24
206+95	41 LT	42
207+24	39 LT	42
207+85	39 LT	36
208+52	39 LT	30
230+40	45 RT	42
233+33	56 RT	18
233+81	39 RT	18
233+97	56 RT	42
234+30	38 RT	24
235+21	51 RT	18
235+76	53 RT	36
236+29	45 RT	36
236+35	38 RT	24
TERRA COTTA AVENUE		
303+34	204 RT	36
303+42	169 RT	24
TOTAL QUANTITY = 652		

EROSION CONTROL BLANKET			
STATION		SIDE	AREA (SQ YD)
FROM	TO		
FOR SEEDING, CLASS 2A			
ROUTE 31			
131+00	143+00	LT	2263
131+00	143+00	RT	1164
143+00	149+00	LT	3045
143+00	149+00	RT	0
ROUTE 176			
215+50	224+50	LT	0
215+50	224+50	RT	755
224+50	236+00	LT	1983
224+50	236+00	RT	3343
236+00	241+27.78	LT	1892
236+00	241+27.78	RT	1273
TERRA COTTA AVENUE			
300+00	305+00	LT/RT	3899
FOR SEEDING, CLASS 4A			
TERRA COTTA AVENUE			
300+00	305+00	LT/RT	4102
TOTAL			
23719			

STONE DUMPED RIPRAP, CLASS A7		
STATION	OFFSET	AREA (SQ YD)
TERRA COTTA AVENUE		
301+22	1' RT	17
301+98	70' LT	18
302+15	67' LT	12
302+25	93' LT	15
303+40	167' RT	14
TOTAL		
76		

FILTER FABRIC		
STATION	OFFSET	AREA (SQ YD)
TERRA COTTA AVENUE		
301+22	1' RT	17
301+98	70' LT	18
302+15	67' LT	12
302+25	93' LT	15
303+40	167' RT	14
TOTAL		
76		

AGGREGATE SUBGRADE IMPROVEMENT, 12 INCH		
STATION		AREA (SQ. YD.)
FROM	TO	
ROUTE 31		
109+17	119+00	9,308
119+00	131+00	12,410
131+00	139+35	7,191
139+35	143+00	902
143+00	149+00	1,849
ROUTE 176		
206+11	215+50	7,569
215+50	219+56	5,104
220+77	224+50	4,875
224+50	233+47	6,997
233+47	236+00	1,241
236+00	241+28	1,743
TERRA COTTA AVENUE		
301+10	305+00	1,576
TOTAL QUANTITY =		
60,765		

SEDIMENT CONTROL, SILT FENCE			
LOCATION	SIDE	LENGTH (FEET)	
109+17 TO 109+79	RT	62	
109+92 TO 110+15	RT	23	
110+30 TO 111+02	RT	72	
111+22 TO 112+16	RT	94	
112+36 TO 113+66	RT	130	
113+78 TO 114+86	RT	108	
115+97 TO 116+46	RT	49	
123+94 TO 125+67	LT	173	
126+79 TO 127+50	LT	71	
129+68 TO 130+83	RT	115	
129+74 TO 133+50	LT	376	
132+00 TO 133+47	RT	147	
134+29 TO 135+98	RT	171	
138+20 TO 139+27	RT	122	
139+60 TO 140+22	RT	77	
140+76 TO 141+17	RT	76	
141+40 TO 142+47	RT	107	
143+00 TO 148+49	LT	571	
205+82 TO 206+67	LT	85	
208+65 TO 209+46	RT	81	
210+00 TO 211+03	RT	103	
212+79 TO 214+18	RT	122	
214+41 TO 215+68	RT	127	
216+69 TO 218+12	RT	143	
222+00 TO 224+67	LT	267	
222+72 TO 223+08	RT	36	
225+00 TO 227+29	LT	234	
227+70 TO 228+50	LT	80	
228+77 TO 234+88	LT	651	
235+20 TO 236+50	LT	130	
236+22 TO 237+12	RT	90	
237+32 TO 237+77	RT	50	
237+50 TO 238+50	LT	100	
237+94 TO 238+90	RT	96	
239+04 TO 241+28	RT	239	
303+50 TO 305+01	RT	325	
TOTAL			
5,503			

MULCH, METHOD 2	
LOCATION	AREA (ACRE)
STAGE I	
107+00 TO 119+00	0.25
119+00 TO 131+00	0.48
131+00 TO 143+00	0.52
143+00 TO 149+00	0.28
205+00 TO 215+50	0.34
215+50 TO 224+50	0.14
224+50 TO 236+00	0.60
236+00 TO 241+28	0.33
300+00 TO 305+00	1.54
STAGE I TOTAL	
4.49	
STAGE II	
107+00 TO 119+00	0.32
119+00 TO 131+00	0.35
131+00 TO 143+00	0.57
143+00 TO 149+00	0.11
205+00 TO 215+50	0.35
215+50 TO 224+50	0.28
224+50 TO 236+00	0.58
236+00 TO 241+28	0.24
STAGE II TOTAL	
2.78	
TOTAL	
7.28	

TEMPORARY SHOULDERS			
STATION		OFFSET	AREA (SQ. YD.)
FROM	TO		
PRE-STAGE:			
ROUTE 31			
126+80	129+22	LT	54
129+57	137+50	LT	176
142+62	145+45	LT	63
ROUTE 176			
204+00	206+22	RT	49
206+72	214+43	RT	171
223+88	241+00	RT	381
STAGE I:			
ROUTE 31			
143+00	149+00	RT	133
ROUTE 176			
236+00	243+00	LT	156
TOTAL			
1,183			

LOCATION	UNSUITABLE EXCAVATION* (CU YD)	SUITABLE EXCAVATION* (CU YD)	SUITABLE EXCAVATION ADJUSTED FOR 15% SHRINKAGE (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)	REMOVAL & DISPOSAL OF UNSUITABLE MAT. (CU YD)	EARTH EXCAVATION (CU YD)	FURNISHED EXCAVATION (CU YD)
PRE-STAGE:								
ROUTE 31								
678	0	0	386	-386	678	0	0	0
ROUTE 176								
820	0	0	294	-294	820	0	0	0
TERRA COTTA AVENUE								
0	0	0	0	0	0	0	0	0
DETENTION BASIN								
7,051	1,152	979	299	680	7,051	1,152	0	0
SUB-TOTAL =								
8,549 1,152 979 979 0 8,549 1,152 0								
STAGE 1:								
ROUTE 31								
3,961	0	0	1,612	-1,612	3,961	0	1,612	1,612
ROUTE 176								
6,916	0	0	1,384	-1,384	6,916	0	1,384	1,384
TERRA COTTA AVENUE								
686	0	0	92	-92	686	0	92	92
DETENTION BASIN								
0	0	0	0	0	0	0	0	0
SUB-TOTAL =								
11,563 0 0 3,088 -3,088 11,563 0 3,088								
STAGE 2:								
ROUTE 31								
3,668	0	0	1,244	-1,244	3,548	0	1,244	1,244
ROUTE 176								
5,462	0	0	1,436	-1,436	5,462	0	1,436	1,436
TERRA COTTA AVENUE								
0	0	0	0	0	0	0	0	0
DETENTION BASIN								
0	0	0	0	0	0	0	0	0
SUB-TOTAL =								
9,130 0 0 2,680 -2,680 9,130 0 2,680								
STAGE 3:								
ROUTE 31								
1,429	0	0	222	-222	1,429	0	222	222
ROUTE 176								
1,477	0	0	355	-355	1,477	0	355	355
TERRA COTTA AVENUE								
0	0	0	0	0	0	0	0	0
DETENTION BASIN								
0	0	0	0	0	0	0	0	0
SUB-TOTAL =								
2,906 0 0 577 -577 2,906 0 577								
UNDERCUTS								
ROUTE 31								
1,260	0	0	0	0	1,260	0	0	0
ROUTE 176								
369	0	0	0	0	369	0	0	0
TERRA COTTA AVENUE								
0	0	0	0	0	0	0	0	0
SUB-TOTAL =								
1,629 0 0 0 0 1,629 0 0								
TOTAL QUANTITY =								
32,148 1,152 979 7,324 -6,201 33,777 1,152 6,345								

*ALL CUT MATERIAL SHALL BE HAULED OFF SITE DUE TO NO ON-SITE STORAGE LOCATIONS, EXCEPT FOR PRE-STAGE EXCAVATION. DURING PRE-STAGE BORROW MATERIAL TO BE USED MAY BE STORED AT THE TERRA COTTA AVENUE FUTURE CUL-DE-SAC LOCATION FOR USE AS EMBANKMENT.

GUARDRAIL REMOVAL			
STATION		SIDE	LENGTH (FOOT)
FROM	TO		
ROUTE 31			
146+15	148+55	LT	240
TOTAL			
240			

REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A			
STATION		SIDE	LENGTH (FOOT)
FROM	TO		
ROUTE 31			
150+05	151+50	LT	145
TOTAL			
145			

SUB-BASE GRANULAR MATERIAL, TYPE B - 4"		
STATION		AREA (SQ. YD.)
FROM	TO	
ROUTE 31		
109+17	119+00	336
119+00	131+00	221
ROUTE 176		
206+11	215+50	532
215+50	224+50	111
224+50	236+00	204
MEDIAN STAGING		
100+00	109+17	1,231
TOTAL QUANTITY =		
2,635		

TEMPORARY PAVEMENT			
STATION		OFFSET	AREA (SQ. YD.)
FROM	TO		
PRE-STAGE:			
ROUTE 31			
100+00	107+00	LT & RT	781
107+00	119+00	LT	808
119+00	131+00	LT	504
131+00	143+00	LT	844
143+00	157+00	LT	978
ROUTE 176			
195+00	205+00	RT	10
205+00	215+50	RT	907
215+50	224+50	RT	242
224+50	236+00		