

SUM-8-1.75 EARTHWORK AND SEEDING CALCULATIONS

DESCRIPTION	203	203	659	659	659	659	659	659	659	659	659
	EXCAVATION	EMBANKMENT	SOIL ANALYSIS TEST	TOPSOIL	REPAIR SEEDING AND MULCHING	INTERSEEDING	COMMERCIAL FERTILIZER	LIME	WATER	MOWING	SEEDING AND MULCHING, CLASS 2
	CY	CY	EA	CY	SY	SY	TON	ACRES	M. GAL	M.SF	SY
TOTAL EARTHWORK	53427	52554									
TOTAL SEEDING AND MULCHING											38332
TOTALS FROM SEEDING CALCULATIONS			2	4255	1917	1917	5.35	7.92	217	87	
04/NHS/04	41693	51596	2	4255	1917	1917	5.35	7.92	217	87	33248
05/S>2/04	11734	958									5084
TOTALS CARRIED TO GENERAL SUMMARY	53427	52554	2	4255	1917	1917	5.35	7.92	217	87	38332

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EARTHWORK, SEEDING AND MULCHING SUB SUMMARY				
ROAD	REFERENCED FROM CROSS-SECTION SHEET	203	203	659
		EXCAVATION	EMBANKMENT	SEEDING AND MULCHING, CLASS 2
		CY	CY	SY
SR-8 NB		14473	17779	13309
SR-8 SB		10647	31726	11732
RAMP I		7601	1610	5800
RAMP J		11734	958	5084
RAMP K		899	199	1641
BIKE PATH		237	282	766
Structure		7836		
TOTALS CARRIED TO SUB SUMMARY ON THIS SHEET		53427	52554	38332

SR-8 NB			
PAGE	CUT	FILL	SEEDING
213	286	201	322
214	397	189	278
215	342	334	25
216	291	518	0
217	140	0	242
217A	174	0	351
218	654	656	1053
219	589	1096	1183
220	1151	710	1297
221	1578	384	1278
222	975	1834	1105
223	1194	2949	1503
224	1521	3380	1133
225	1140	2998	881
226	882	1986	924
227	486	289	462
228	1144	131	605
229	1386	91	664
230	109	25	3
231	34	8	0
Total	14473	17779	13309

SR-8 SB			
PAGE	CUT	FILL	SEEDING
209	0	0	0
210	216	11	154
211	330	12	227
212	557	126	450
232	459	214	200
233	302	389	56
234	832	290	291
235	344	3990	1064
236	70	0	845
237	0	0	594
238	0	7305	1105
239	9	6072	869
240	59	2568	558
241	118	1918	492
242	517	3164	913
243	1457	4196	1086
244	686	1265	523
245	878	84	373
246	1306	26	506
247	1260	25	588
248	964	48	686
249	246	21	143
250	37	2	9
251	0	0	0
Total	10647	31726	11732

Ramp I			
PAGE	CUT	FILL	SEEDING
252	65	72	227
253	143	626	867
254	887	161	730
255	1293	104	1353
256	2158	78	1428
257	2912	0	884
258	143	569	311
Total	7601	1610	5800

Ramp J			
PAGE	CUT	FILL	SEEDING
259	1387	257	992
260	3809	273	1381
261	3895	47	1089
262	2343	14	1170
263	300	367	452
Total	11734	958	5084

Ramp K			
PAGE	CUT	FILL	SEEDING
264	162	14	117
265	303	75	528
266	382	86	760
267	52	24	236
Total	899	199	1641

Bike Path			
PAGE	CUT	FILL	SEEDING
268	0	0	0
269	6	35	113
270	2	92	158
271	25	9	77
272	21	9	47
273	4	8	46
274	5	3	18
275	6	4	14
276	9	1	16
277	6	1	12
278	17	7	16
279	20	5	18
280	20	5	21
281	20	8	21
282	20	10	21
283	19	13	20
284	17	13	15
285	6	16	27
286	2	17	28
287	2	13	24
288	0	9	15
289	0	3	14
290	2	1	12
291	4	0	7
292	4	0	6
Total	237	282	766

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SEEDING AND MULCHING CALCULATIONS

ITEM 659 - TOPSOIL (CY)

TOPSOIL = PERMANENT SEEDED AREA (SY) x 111 CY TOPSOIL/1000 SY PERMANENT SEEDED AREA
 $38332 \times 111 \text{ CY} / 1000 \text{ SY} = 4255 \text{ CY}$

ITEM 659 - SOIL ANALYSIS TEST (EA)

ONE TEST PER 10,000 CY OF TOPSOIL
 $4255 / 10,000 \text{ CY} = 2 \text{ EA}$

ITEM 659 - REPAIR SEEDING AND MULCHING (SY)

REPAIR SEEDING AND MULCHING = 5% OF PERMANENT SEEDED AREA (SY)
 $38332 \times 0.05 = 1917 \text{ SY}$

ITEM 659 - INTERSEEDING (SY)

INTERSEEDING = 5% OF PERMANENT SEEDED AREA (SY)
 $38332 \times 0.05 = 1917 \text{ SY}$

ITEM 659 - COMMERCIAL FERTILIZER (TON)

PERMANENT SEEDED AREA (SY) x 9 SF / 1 SY = PERM. SEEDED AREA (SF)
 $38332 \times 9 \text{ SF} / 1 \text{ SY} = 344988 \text{ SF}$

PERM SEED AREA x 30 LB FERTILIZER / 1000 SF PERMANENT SEEDED AREA
 $344988 \times 30 \text{ LB} / 1000 \text{ SF} = 10350 \text{ LBS}$
 $10350 / 2000 \text{ LB PER TON} = 5.18 \text{ TON}$

INTERSEEDING AREA (SY) x 9 SF / 1 SY = INTERSEEDING AREA (SF)
 $1917 \times 9 \text{ SF} / 1 \text{ SY} = 17253 \text{ SF}$

PERM. SEED AREA x 30 LB FERTILIZER / 1000 SF INTERSEEDING AREA
 $17253 \times 30 \text{ LB} / 1000 \text{ SF} = 517.59 \text{ LBS}$
 $517.59 / 2000 \text{ LB PER TON} = 0.259 \text{ TON}$

TOTAL COMMERCIAL FERTILIZER = 5.35 TON

ITEM 659 - LIME (ACRE)

LIME = PERMANENT SEEDED AREA (SY) x 1 ACRE / 4840 SY
 $38332 \times 1 \text{ ACRE} / 4840 \text{ SY} = 7.92 \text{ ACRE}$

ITEM 659 - WATER (M. GAL)

WATER = PERMANENT SEEDED AREA (SY) x 0.0027 m. GAL/1 SY x 2
 $38332 \times 0.0027 \times 2 = 207.00 \text{ M. GAL}$

WATER = INTERSEEDED AREA (SY) x 0.0027 m. GAL/1 SY x 2
 $1917 \times 0.0027 \times 2 = 10.00 \text{ M. GAL}$

TOTAL WATER = 217.00 M. GAL

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ITEM 659 - MOWING (M. SF)

MOWING = PERMANENT SEEDED AREA (SY) x 9 SF / 1 SY x 1 M. SF / 1000 SF / 4

$$38,332 \times 9 \text{ SF} / 1 \text{ SY} = 344,988 \text{ SF}$$

$$344,988 \times 1 \text{ M SF} / 1000 \text{ SF} / 4 = \mathbf{87 \text{ M. SF}}$$
