

# EARTHWORKS

																								SUMMARY AND BALANCES														
STATION		TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT				TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT				TOTAL EXCAVATION EARTH AND ROCK		ROCK EXCAVATION		EMBANKMENT		STATION TO STATION		TOT EXC. EARTH & ROCK C.Y.	ROCK EXCAV C.Y.	EMBANK C.Y.	EXCESSES		ACUMULATIVE EXCESSES							
STATION	DIST	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	STATION	DIST	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	STATION	DIST	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	AREA	VOLUME	CUT	FILL	CUT	FILL					
FT.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	FT.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	FT.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.	S.F.	C.Y.										
3+00	50	0.0	0			0.0	0																															
3+50	50	0.0	0			0.0	0			25+50	50	109.0	207			0.0	0			47+50	50	0.0	0			0.0	0	CUT	124			3+00	5+00	0	0	0		
4+00	50	0.0	0			0.0	0			26+00	50	114.7	209			0.0	0			48+00	50	0.0	10			0.0	0	ROCK	0			5+00	10+00	692	0	145	525	525
4+50	50	0.0	0			0.0	0			26+50	50	111.1	193			0.0	0			48+50	50	11.0	19			0.0	0	R.FAC	495			10+00	15+00	1740	0	0	1740	2265
5+00	50	0.0	0			0.0	0			27+00	50	97.7	188			0.0	0			49+00	50	9.4	17			0.0	0	FILL	0			15+00	20+00	1473	0	0	1473	3738
5+50	50	0.0	0			0.0	0			27+50	50	105.1	199			0.0	0			49+50	50	9.4	17			0.0	0	F.FAC	1.15			20+00	25+00	1905	0	0	1905	5643
6+00	50	13.3	12			15.1	14			28+00	50	110.2	189			0.0	0			50+00	50	13.2	21			0.0	0	EX. C	0			25+00	30+00	1836	0	0	1836	7479
6+50	50	22.3	33			15.4	28			28+50	50	93.8	161			0.0	0			50+50	50	15.7	27			0.0	0					30+00	35+00	1692	0	0	1692	9171
7+00	50	19.1	38			15.6	29			29+00	50	79.7	142			0.0	0			51+00	50	13.4	27			0.0	0					35+00	40+00	1606	0	0	1606	10777
7+50	50	15.9	32			16.1	29			29+50	50	73.8	147			0.0	0			51+50	50	9.5	21			0.0	0					40+00	45+00	1004	0	0	1004	11781
8+00	50	8.5	23			15.9	30			30+00	50	84.6	160			0.0	0			52+00	50	7.9	16			0.0	0					45+00	50+00	124	0	0	124	11905
8+50	50	0.0	8			0.0	15			30+50	50	88.7	160			0.0	0			52+50	50	5.9	13			0.0	0					50+00	55+00	154	0	0	154	12059
9+00	50	124.1	115			0.0	0			31+00	50	83.8	160			0.0	0			53+00	50	5.9	11			0.0	0	CUT	154			55+00	60+00	148	0	0	148	12207
9+50	50	114.7	221			0.0	0			31+50	50	75.8	148			0.0	0			53+50	50	5.3	10			0.0	0	ROCK	0			60+00	65+00	119	0	0	119	12326
10+00	50	111.1	209			0.0	0			32+00	50	74.6	139			0.0	0			54+00	50	5.6	10			0.0	0	R.FAC	495			65+00	70+00	167	0	0	167	12493
10+50	50	107.7	203			0.0	0			32+50	50	81.6	145			0.0	0			54+50	50	4.5	9			0.0	0	FILL	0			70+00	71+00	19	0	0	19	12512
11+00	50	100.1	192			0.0	0			33+00	50	81.0	151			0.0	0			55+00	50	5.2	9			0.0	0	F.FAC	1.15			TO BE USED AT DISCRETION OF ENGINEER		50	0	50	12562	
11+50	50	97.0	183			0.0	0			33+50	50	100.3	168			0.0	0			55+50	50	10.9	15			0.0	0	EX. C	1692			UNSUITABLE SUBBASE MATERIAL (EST.)	1999	0	0	1999	14561	
12+00	50	99.0	181			0.0	0			34+00	50	111.3	196			0.0	0			56+00	50	8.0	18			0.0	0					OVER EXCAVATION	3300	0	0	3300	17861	
12+50	50	96.2	186			0.0	0			34+50	50	117.3	214			0.0	0			56+50	50	8.3	15			0.0	0											
13+00	50	105.1	184			0.0	0			35+00	50	113.5	208			0.0	0			57+00	50	6.7	12			0.0	0											
13+50	50	93.8	161			0.0	0			35+50	50	111.1	223			0.0	0			57+50	50	5.9	12			0.0	0											
14+00	50	80.4	136			0.0	0			36+00	50	129.3	120			0.0	0			58+00	50	7.3	16			0.0	0	CUT	148									
14+50	50	67.0	132			0.0	0			36+50	50	0.0	74			0.0	0			58+50	50	10.0	16			0.0	0	ROCK	0									
15+00	50	75.5	109			0.0	0			37+00	50	80.2	147			0.0	0			59+00	50	9.7	18			0.0	0	R.FAC	495									
15+50	50	41.9	99			0.0	0			37+50	50	78.2	147			0.0	0			59+50	50	7.7	16			0.0	0	FILL	0									
16+00	50	65.3	99			0.0	0			38+00	50	86.1	152			0.0	0			60+00	50	5.9	13			0.0	0	EX. C	148									
16+50	50	76.0	131			0.0	0			38+50	50	95.6	168			0.0	0			60+50	50	5.0	10			0.0	0											
17+00	50	74.9	149			0.0	0			39+00	50	91.4	176			0.0	0			61+00	50	4.4	9			0.0	0											
17+50	50	86.2	149			0.0	0			39+50	50	99.1	176			0.0	0			61+50	50	5.9	10			0.0	0											
18+00	50	77.8	152			0.0	0			40+00	50	78.8	165			0.0	0			62+00	50	9.9	15			0.0	0											
18+50	50	73.5	140			0.0	0			40+50	50	99.3	178			0.0	0			62+50	50	7.1	12			0.0	0	CUT	119									
19+00	50	99.5	160			0.0	0			41+00	50	93.0	178			0.0	0			63+00	50	6.1	12			0.0	0	ROCK	0									
19+50	50	108.5	193			0.0	0			41+50	50	84.1	164			0.0	0			63+50	50	5.3	11			0.0	0	R.FAC	495									
20+00	50	107.8	200			0.0	0			42+00	50	116.4	186			0.0	0			64+00	50	6.6	11			0.0	0	FILL	0									
20+50	50	112.5	204			0.0	0			42+50	50	110.1	210			0.0	0			64+50	50	7.3	13			0.0	0	F.FAC	1.15									
21+00	50	93.0	190			0.0	0			43+00	50	0.0	102			0.0	0			65+00	50	6.9	13			0.0	0	EX. C	119									
21+50	50	95.8	175			0.0	0			43+50	50	0.0	0			0.0	0			65+50	50	4.7	11			0.0	0											
22+00	50	97.7	179			0.0	0			44+00	50	0.0	0			0.0	0			66+00	50	6.5	10			0.0	0											
22+50	50	104.6	187			0.0	0			44+50	50	0.0	0			0.0	0			66+50	50	12.9	18			0.0	0											
23+00	50	106.4	195			0.0	0			45+00	50	0.0	0			0.0	0			67+00	50	13.8	25			0.0	0											
23+50	50	99.8	191			0.0	0			45+50	50	0.0	0			0.0	0			67+50	50	8.4	21			0.0	0	CUT	167									
24+00	50	104.4	189			0.0	0			46+00	50	12.2	11			0.0	0			68+00	50	8.3	15			0.0	0	ROCK	0									
24+50	50	106.6	195			0.0	0			46+50	50	9.1	20			0.0	0			68+50	50	11.8	19			0.0	0	R.FAC	495									
25+00	50	107.7	198			0.0	0			47+00	50	9.0	17			0.0	0			69+00	50	11.9	22			0.0	0	FILL	0									
																													EX. C	167								

PROJECT NAME: GRANVILLE  
 PROJECT NUMBER: ER STP 013-4(40)  
 FILE NAME: z12b520.dgn  
 PROJECT LEADER: J. TUCKER  
 DESIGNED BY: B. MACK  
 EARTHWORKS SHEET 1

PLOT DATE: 7/8/2015  
 DRAWN BY: B. MARTIN  
 CHECKED BY: A. SANZ  
 SHEET 20 OF 141