



GRADING REPORT

COMPUTED BY: Lamees Hamed  
 CHECKED BY: Joseph Cains  
 FEDERAL PROJECT NO: STP/HPP-31(12)  
 ROUTE NO. OR STREET: SR-31

SHEET 2 OF 24  
 STATE NO.: 37022-3219-14  
 PIN: 101394-00  
 COUNTY: Hawkins

12+50	EARTH					
	Excavation	10.8559	27.1269	27.1269	1.00	-64.9245
	Fill	56.4470	78.0927	78.0927	1.00	-64.9245
13+00	EARTH					
	Excavation	10.4521	19.7296	19.7296	1.00	-121.2036
	Fill	25.6424	76.0087	76.0087	1.00	-121.2036
13+50	EARTH					
	Excavation	12.6741	21.4131	21.4131	1.00	-148.6689
	Fill	27.1463	48.8784	48.8784	1.00	-148.6689
14+00	EARTH					
	Excavation	8.8311	19.9122	19.9122	1.00	-174.3081
	Fill	22.0492	45.5514	45.5514	1.00	-174.3081
14+50	EARTH					
	Excavation	16.2450	23.2186	23.2186	1.00	-184.2935
	Fill	13.8112	33.2041	33.2041	1.00	-184.2935
15+00	EARTH					
	Excavation	55.1353	66.0929	66.0929	1.00	-143.1059
	Fill	13.0865	24.9053	24.9053	1.00	-143.1059
15+50	EARTH					
	Excavation	48.2341	95.7124	95.7124	1.00	-72.3387
	Fill	13.8543	24.9452	24.9452	1.00	-72.3387
16+00	EARTH					

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	Excavation	46.7033	87.9050	87.9050	1.00	-17.5866
	Fill	21.9508	33.1529	33.1529	1.00	-17.5866
16+50	EARTH					
	Excavation	45.9256	85.7675	85.7675	1.00	22.2578
	Fill	27.6462	45.9231	45.9231	1.00	22.2578
17+00	EARTH					
	Excavation	14.4065	55.8631	55.8631	1.00	48.2800
	Fill	4.5819	29.8408	29.8408	1.00	48.2800
17+50	EARTH					
	Excavation	208.9582	206.8192	206.8192	1.00	250.8567
	Fill	0.0000	4.2425	4.2425	1.00	250.8567
18+00	EARTH					
	Excavation	307.9108	478.5824	478.5824	1.00	729.4391
	Fill	0.0000	0.0000	0.0000	1.00	729.4391
18+50	EARTH					
	Excavation	259.2041	525.1064	525.1064	1.00	1254.5455
	Fill	0.0000	0.0000	0.0000	1.00	1254.5455
19+00	EARTH					
	Excavation	151.1442	379.9521	379.9521	1.00	1634.4976
	Fill	0.0000	0.0000	0.0000	1.00	1634.4976
19+50	EARTH					
	Excavation	81.2573	215.1866	215.1866	1.00	1849.6842

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	Fill	0.0000	0.0000	0.0000	1.00	1849.6842
20+00	EARTH					
	Excavation	78.9050	148.2984	148.2984	1.00	1997.9826
	Fill	0.0000	0.0000	0.0000	1.00	1997.9826
20+50	EARTH					
	Excavation	70.7095	138.5319	138.5319	1.00	2131.7642
	Fill	5.1304	4.7504	4.7504	1.00	2131.7642
21+00	EARTH					
	Excavation	0.0000	65.4718	65.4718	1.00	2192.4856
	Fill	0.0000	4.7504	4.7504	1.00	2192.4856
21+50	EARTH					
	Excavation	43.3682	40.1557	40.1557	1.00	2218.5575
	Fill	15.2105	14.0838	14.0838	1.00	2218.5575
22+00	EARTH					
	Excavation	12.9842	52.1781	52.1781	1.00	2220.5621
	Fill	38.9769	50.1735	50.1735	1.00	2220.5621
22+50	EARTH					
	Excavation	4.9677	16.6221	16.6221	1.00	2097.5635
	Fill	111.8135	139.6207	139.6207	1.00	2097.5635
23+00	EARTH					
	Excavation	4.1195	8.4141	8.4141	1.00	1908.5272
	Fill	101.4329	197.4504	197.4504	1.00	1908.5272

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23+50	EARTH					
	Excavation	0.0000	3.8144	3.8144	1.00	1818.4222
	Fill	0.0000	93.9194	93.9194	1.00	1818.4222
24+00	EARTH					
	Excavation	8.2798	7.6665	7.6665	1.00	1684.0947
	Fill	153.3535	141.9940	141.9940	1.00	1684.0947
24+50	EARTH					
	Excavation	15.5697	22.0829	22.0829	1.00	1474.2131
	Fill	97.1682	231.9645	231.9645	1.00	1474.2131
25+00	EARTH					
	Excavation	37.0823	48.7519	48.7519	1.00	1406.9623
	Fill	28.1146	116.0026	116.0026	1.00	1406.9623
25+50	EARTH					
	Excavation	16.5459	49.6557	49.6557	1.00	1395.8387
	Fill	37.5271	60.7794	60.7794	1.00	1395.8387
26+00	EARTH					
	Excavation	7.0519	21.8498	21.8498	1.00	1351.4577
	Fill	34.0022	66.2308	66.2308	1.00	1351.4577
26+50	EARTH					
	Excavation	16.5323	21.8372	21.8372	1.00	1319.1595
	Fill	24.4640	54.1354	54.1354	1.00	1319.1595

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27+00	EARTH					
	Excavation	19.0919	32.9854	32.9854	1.00	1305.0744
	Fill	26.3721	47.0705	47.0705	1.00	1305.0744
27+50	EARTH					
	Excavation	33.7149	48.8952	48.8952	1.00	1316.1330
	Fill	14.4915	37.8367	37.8367	1.00	1316.1330
28+00	EARTH					
	Excavation	34.7878	63.4284	63.4284	1.00	1348.9656
	Fill	18.5520	30.5958	30.5958	1.00	1348.9656
28+50	EARTH					
	Excavation	30.4647	60.4190	60.4190	1.00	1377.6118
	Fill	15.7626	31.7728	31.7728	1.00	1377.6118
29+00	EARTH					
	Excavation	27.0987	53.2994	53.2994	1.00	1404.6234
	Fill	12.6282	26.2878	26.2878	1.00	1404.6234
29+50	EARTH					
	Excavation	30.5486	53.3771	53.3771	1.00	1411.5992
	Fill	37.4853	46.4014	46.4014	1.00	1411.5992
30+00	EARTH					
	Excavation	20.8107	47.5549	47.5549	1.00	1401.3620
	Fill	24.9301	57.7920	57.7920	1.00	1401.3620
30+50	EARTH					

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	Excavation	18.6551	36.5424	36.5424	1.00	1390.5581
	Fill	26.2040	47.3464	47.3464	1.00	1390.5581
31+00	EARTH					
	Excavation	19.9646	35.7590	35.7590	1.00	1393.0384
	Fill	9.7369	33.2786	33.2786	1.00	1393.0384
31+50	EARTH					
	Excavation	15.6984	33.0213	33.0213	1.00	1399.0271
	Fill	19.4583	27.0326	27.0326	1.00	1399.0271
32+00	EARTH					
	Excavation	16.0661	29.4116	29.4116	1.00	1391.7336
	Fill	20.1832	36.7051	36.7051	1.00	1391.7336
32+50	EARTH					
	Excavation	20.5160	33.8723	33.8723	1.00	1396.3360
	Fill	11.4283	29.2699	29.2699	1.00	1396.3360
33+00	EARTH					
	Excavation	6.3788	24.9026	24.9026	1.00	1394.7819
	Fill	17.1449	26.4567	26.4567	1.00	1394.7819
33+50	EARTH					
	Excavation	7.0002	12.3880	12.3880	1.00	1375.7944
	Fill	16.7406	31.3755	31.3755	1.00	1375.7944
34+00	EARTH					
	Excavation	10.7854	16.4681	16.4681	1.00	1374.0744

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	Fill	2.9026	18.1881	18.1881	1.00	1374.0744
34+50	EARTH					
	Excavation	7.5573	16.9840	16.9840	1.00	1382.9188
	Fill	5.8882	8.1396	8.1396	1.00	1382.9188
35+00	EARTH					
	Excavation	4.5286	11.1906	11.1906	1.00	1379.8497
	Fill	9.5123	14.2597	14.2597	1.00	1379.8497
35+50	EARTH					
	Excavation	2.7609	6.7495	6.7495	1.00	1366.6822
	Fill	11.9981	19.9170	19.9170	1.00	1366.6822
36+00	EARTH					
	Excavation	4.7181	6.9250	6.9250	1.00	1362.4979
	Fill	0.0000	11.1094	11.1094	1.00	1362.4979
36+50	EARTH					
	Excavation	3.1917	7.3239	7.3239	1.00	1368.8218
	Fill	1.0800	1.0000	1.0000	1.00	1368.8218
37+00	EARTH					
	Excavation	0.0000	2.9553	2.9553	1.00	1370.7770
	Fill	0.0000	1.0000	1.0000	1.00	1370.7770

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Segment 2 Earthwork

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate
70+00	EARTH					
	Excavation	6.8157	6.3108	6.3108	1.00	1.9527
	Fill	4.7068	4.3581	4.3581	1.00	1.9527
70+50	EARTH					
	Excavation	52.5400	54.9590	54.9590	1.00	26.2061
	Fill	28.4552	30.7056	30.7056	1.00	26.2061
71+00	EARTH					
	Excavation	84.2648	126.6711	126.6711	1.00	100.5601
	Fill	28.0473	52.3171	52.3171	1.00	100.5601
71+50	EARTH					
	Excavation	48.4635	122.8966	122.8966	1.00	170.3276
	Fill	29.3321	53.1291	53.1291	1.00	170.3276
72+00	EARTH					
	Excavation	46.5577	87.9826	87.9826	1.00	193.7088
	Fill	40.4374	64.6014	64.6014	1.00	193.7088
72+50	EARTH					
	Excavation	25.7159	66.9200	66.9200	1.00	187.8138
	Fill	38.2028	72.8150	72.8150	1.00	187.8138

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73+00	EARTH					
	Excavation	31.0581	52.5685	52.5685	1.00	165.8093
	Fill	42.3361	74.5731	74.5731	1.00	165.8093
73+50	EARTH					
	Excavation	36.6308	62.6749	62.6749	1.00	131.9396
	Fill	61.9320	96.5445	96.5445	1.00	131.9396
74+00	EARTH					
	Excavation	38.0295	69.1299	69.1299	1.00	67.4393
	Fill	82.3887	133.6303	133.6303	1.00	67.4393
74+50	EARTH					
	Excavation	85.1174	114.0249	114.0249	1.00	40.1198
	Fill	70.2632	141.3444	141.3444	1.00	40.1198
75+00	EARTH					
	Excavation	109.2319	179.9531	179.9531	1.00	119.7337
	Fill	38.1031	100.3392	100.3392	1.00	119.7337
75+50	EARTH					
	Excavation	122.6698	214.7238	214.7238	1.00	292.8856
	Fill	6.7945	41.5719	41.5719	1.00	292.8856
76+00	EARTH					
	Excavation	167.7751	268.9305	268.9305	1.00	554.6282
	Fill	0.9684	7.1879	7.1879	1.00	554.6282
76+50	EARTH					

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	Excavation	164.6105	307.7644	307.7644	1.00	861.2999
	Fill	0.2118	1.0928	1.0928	1.00	861.2999
77+00	EARTH					
	Excavation	8.4600	160.2505	160.2505	1.00	1021.0265
	Fill	0.3540	0.5239	0.5239	1.00	1021.0265
77+50	EARTH					
	Excavation	77.1950	79.3102	79.3102	1.00	1012.2689
	Fill	94.7592	88.0678	88.0678	1.00	1012.2689
78+00	EARTH					
	Excavation	2.7650	74.0370	74.0370	1.00	981.1598
	Fill	18.7986	105.1461	105.1461	1.00	981.1598
78+50	EARTH					
	Excavation	17.3708	18.6443	18.6443	1.00	817.1151
	Fill	178.5055	182.6890	182.6890	1.00	817.1151
79+00	EARTH					
	Excavation	34.2940	47.8378	47.8378	1.00	613.4085
	Fill	93.1624	251.5444	251.5444	1.00	613.4085
79+50	EARTH					
	Excavation	81.6083	107.3169	107.3169	1.00	596.9209
	Fill	40.5465	123.8045	123.8045	1.00	596.9209
80+00	EARTH					
	Excavation	33.9577	107.0056	107.0056	1.00	649.5260

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	Fill	18.2060	54.4005	54.4005	1.00	649.5260
80+50	EARTH					
	Excavation	54.8500	82.2294	82.2294	1.00	709.5519
	Fill	5.7738	22.2035	22.2035	1.00	709.5519
81+00	EARTH					
	Excavation	58.4300	104.8889	104.8889	1.00	808.3083
	Fill	0.8492	6.1324	6.1324	1.00	808.3083
81+50	EARTH					
	Excavation	4.7563	58.5058	58.5058	1.00	843.4079
	Fill	24.4296	23.4063	23.4063	1.00	843.4079
82+00	EARTH					
	Excavation	7.4345	11.2878	11.2878	1.00	818.6968
	Fill	14.4492	35.9989	35.9989	1.00	818.6968
82+50	EARTH					
	Excavation	0.0000	6.8838	6.8838	1.00	812.2017
	Fill	0.0000	13.3789	13.3789	1.00	812.2017

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Segment 3 Earthwork

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate
219+50	EARTH					
	Excavation	43.5139	40.2906	40.2906	1.00	37.9705
	Fill	2.5058	2.3202	2.3202	1.00	37.9705
220+00	EARTH					
	Excavation	56.3966	92.5097	92.5097	1.00	115.5379
	Fill	13.6319	14.9423	14.9423	1.00	115.5379
220+50	EARTH					
	Excavation	27.0087	77.2271	77.2271	1.00	69.5209
	Fill	119.4717	123.2441	123.2441	1.00	69.5209
221+00	EARTH					
	Excavation	125.1588	140.8958	140.8958	1.00	96.3542
	Fill	3.7159	114.0626	114.0626	1.00	96.3542
221+50	EARTH					
	Excavation	272.4508	368.1570	368.1570	1.00	459.4010
	Fill	1.8031	5.1102	5.1102	1.00	459.4010
222+00	EARTH					
	Excavation	330.3203	558.1214	558.1214	1.00	1013.3231
	Fill	2.7322	4.1994	4.1994	1.00	1013.3231

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222+50	EARTH					
	Excavation	436.9890	710.4716	710.4716	1.00	1719.1331
	Fill	2.3022	4.6615	4.6615	1.00	1719.1331
223+00	EARTH					
	Excavation	556.3468	919.7554	919.7554	1.00	2635.6976
	Fill	1.1440	3.1909	3.1909	1.00	2635.6976
223+50	EARTH					
	Excavation	581.5049	1053.5664	1053.5664	1.00	3686.7776
	Fill	1.5413	2.4864	2.4864	1.00	3686.7776
224+00	EARTH					
	Excavation	439.2014	945.0984	945.0984	1.00	4628.3407
	Fill	2.2768	3.5353	3.5353	1.00	4628.3407
224+50	EARTH					
	Excavation	363.1915	742.9564	742.9564	1.00	5362.4837
	Fill	7.2417	8.8134	8.8134	1.00	5362.4837
225+00	EARTH					
	Excavation	510.1404	808.6406	808.6406	1.00	6157.2799
	Fill	7.7103	13.8444	13.8444	1.00	6157.2799
225+50	EARTH					
	Excavation	751.2898	1167.9909	1167.9909	1.00	7280.4219
	Fill	40.7265	44.8489	44.8489	1.00	7280.4219
226+00	EARTH					

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	Excavation	941.7514	1567.6307	1567.6307	1.00	8756.0306
	Fill	58.6573	92.0220	92.0220	1.00	8756.0306
226+50	EARTH					
	Excavation	908.0192	1712.7506	1712.7506	1.00	10345.2693
	Fill	74.7356	123.5119	123.5119	1.00	10345.2693
227+00	EARTH					
	Excavation	820.8360	1600.7919	1600.7919	1.00	11792.1317
	Fill	91.5082	153.9294	153.9294	1.00	11792.1317
227+50	EARTH					
	Excavation	670.6648	1381.0193	1381.0193	1.00	13012.3269
	Fill	82.1818	160.8241	160.8241	1.00	13012.3269
228+00	EARTH					
	Excavation	573.3501	1151.8656	1151.8656	1.00	14035.4589
	Fill	56.8505	128.7336	128.7336	1.00	14035.4589
228+50	EARTH					
	Excavation	291.0808	800.3990	800.3990	1.00	14756.3597
	Fill	29.0075	79.4981	79.4981	1.00	14756.3597
229+00	EARTH					
	Excavation	106.6568	368.2756	368.2756	1.00	14909.1343
	Fill	203.7336	215.5010	215.5010	1.00	14909.1343
229+50	EARTH					
	Excavation	212.4347	295.4551	295.4551	1.00	14526.1561

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 CHECKED BY: Joseph Cains  
 FEDERAL PROJECT NO: STP/HPP-31(12)  
 ROUTE NO. OR STREET: SR-31

SHEET 16 OF 24  
 STATE NO.: 37022-3219-14  
 PIN: 101394-00  
 COUNTY: Hawkins

	Fill	528.9743	678.4332	678.4332	1.00	14526.1561
230+14.50.00 EARTH						
	Excavation	133.2000	412.8414	412.8414	1.00	13368.9614
	Fill	785.4746	1570.0362	1570.0362	1.00	13368.9614
230+50 EARTH						
	Excavation	0.0000	87.5667	87.5667	1.00	12940.1512
	Fill	0.0000	516.3768	516.3768	1.00	12940.1512
231+73.50.00 EARTH						
	Excavation	38.9150	16.9352	16.9352	1.00	12684.5660
	Fill	626.2171	272.5204	272.5204	1.00	12684.5660
232+50 EARTH						
	Excavation	125.2731	232.5998	232.5998	1.00	11615.6799
	Fill	292.4789	1301.4860	1301.4860	1.00	11615.6799
233+00 EARTH						
	Excavation	110.6258	218.4249	218.4249	1.00	11298.1102
	Fill	286.3952	535.9945	535.9945	1.00	11298.1102
233+50 EARTH						
	Excavation	74.3427	171.2671	171.2671	1.00	10901.1548
	Fill	327.2852	568.2226	568.2226	1.00	10901.1548
234+00 EARTH						
	Excavation	91.3564	153.4251	153.4251	1.00	10466.5239
	Fill	307.8152	588.0559	588.0559	1.00	10466.5239

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SHEET 17 OF 24  
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234+50	EARTH					
	Excavation	61.2328	141.2863	141.2863	1.00	10075.7729
	Fill	266.7851	532.0373	532.0373	1.00	10075.7729
235+00	EARTH					
	Excavation	21.5831	76.6814	76.6814	1.00	9684.4897
	Fill	238.6167	467.9646	467.9646	1.00	9684.4897
235+50	EARTH					
	Excavation	9.7855	29.0450	29.0450	1.00	9345.1049
	Fill	159.2874	368.4297	368.4297	1.00	9345.1049
236+00	EARTH					
	Excavation	15.4931	23.4061	23.4061	1.00	9135.5776
	Fill	92.2807	232.9334	232.9334	1.00	9135.5776
236+50	EARTH					
	Excavation	12.0508	25.5036	25.5036	1.00	9040.5479
	Fill	37.8953	120.5333	120.5333	1.00	9040.5479
237+00	EARTH					
	Excavation	11.5649	21.8664	21.8664	1.00	8983.9170
	Fill	46.8818	78.4973	78.4973	1.00	8983.9170
237+50	EARTH					
	Excavation	0.2167	10.9089	10.9089	1.00	8895.5311
	Fill	60.3566	99.2948	99.2948	1.00	8895.5311

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SHEET 18 OF 24  
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 COUNTY: Hawkins

238+00	EARTH					
	Excavation	3.2290	3.1905	3.1905	1.00	8796.2012
	Fill	50.3654	102.5204	102.5204	1.00	8796.2012

238+50	EARTH					
	Excavation	0.0000	2.9898	2.9898	1.00	8752.5563
	Fill	0.0000	46.6346	46.6346	1.00	8752.5563

Old SR NO 1 Earthwork

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate
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148+50	EARTH					
	Excavation	0.0433	0.0401	0.0401	1.00	-0.4502
	Fill	0.5295	0.4903	0.4903	1.00	-0.4502

149+00	EARTH					
	Excavation	35.1267	32.5648	32.5648	1.00	30.4703
	Fill	1.2464	1.6444	1.6444	1.00	30.4703

149+50	EARTH					
	Excavation	66.4309	94.0348	94.0348	1.00	70.0221
	Fill	57.5952	54.4830	54.4830	1.00	70.0221

150+00	EARTH					
	Excavation	0.0000	61.5101	61.5101	1.00	78.2033
	Fill	0.0000	53.3289	53.3289	1.00	78.2033

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SHEET 19 OF 24  
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150+50	EARTH					
	Excavation	60.7340	56.2352	56.2352	1.00	119.5920
	Fill	16.0342	14.8465	14.8465	1.00	119.5920
151+00	EARTH					
	Excavation	17.3597	72.3090	72.3090	1.00	161.9999
	Fill	16.2590	29.9011	29.9011	1.00	161.9999
151+50	EARTH					
	Excavation	4.4044	20.1519	20.1519	1.00	162.6506
	Fill	4.8023	19.5012	19.5012	1.00	162.6506
152+00	EARTH					
	Excavation	0.0000	4.0781	4.0781	1.00	162.2822
	Fill	0.0000	4.4466	4.4466	1.00	162.2822

Church Lane Earthwork

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate
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155+00	EARTH					
	Excavation	0.0000	0.0000	0.0000	1.00	0.0000
	Fill	0.8784	0.0000	0.0000	1.00	0.0000
155+50	EARTH					
	Excavation	35.3537	32.7349	32.7349	1.00	10.9795
	Fill	35.0097	21.7554	21.7554	1.00	10.9795

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 COUNTY: Hawkins

156+00	EARTH					
	Excavation	0.0000	32.7349	32.7349	1.00	22.4914
	Fill	0.0000	21.2229	21.2229	1.00	22.4914

Petty Lane Earthwork

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate
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195+11.89.00	EARTH					
	Excavation	66.1230	14.5593	14.5593	1.00	14.5593
	Fill	0.0000	0.0000	0.0000	1.00	14.5593

195+18.91.00	EARTH					
	Excavation	14.8069	10.5209	10.5209	1.00	23.4118
	Fill	8.5633	1.6684	1.6684	1.00	23.4118

195+39.43.00	EARTH					
	Excavation	125.4452	53.2958	53.2958	1.00	68.2560
	Fill	0.0000	8.4516	8.4516	1.00	68.2560

195+59.76.00	EARTH					
	Excavation	40.3613	62.4231	62.4231	1.00	130.6790
	Fill	0.0000	0.0000	0.0000	1.00	130.6790

195+75	EARTH					
	Excavation	0.0000	11.3909	11.3909	1.00	142.0699
	Fill	0.0000	0.0000	0.0000	1.00	142.0699

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SHEET 21 OF 24  
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 COUNTY: Hawkins

**Helton Road Earthwork**

Station	Material Name	End Areas	Unadjusted Volumes	Adjusted Volumes	Mult Factor	Mass Ordinate
		(sq. ft.)	(cu. yd.)	(cu. yd.)		

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188+50	EARTH					
	Excavation	0.5624	0.5207	0.5207	1.00	0.4977
	Fill	2.3858	0.0230	0.0230	1.00	0.4977

189+00	EARTH					
	Excavation	0.0000	0.5207	0.5207	1.00	0.5971
	Fill	41.3065	0.4213	0.4213	1.00	0.5971

189+50	EARTH					
	Excavation	0.0000	0.0000	0.0000	1.00	0.5971
	Fill	193.9142	0.0000	0.0000	1.00	0.5971

**Hileman Road Earthwork**

Station	Material Name	End Areas	Unadjusted Volumes	Adjusted Volumes	Mult Factor	Mass Ordinate
		(sq. ft.)	(cu. yd.)	(cu. yd.)		

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185+00	EARTH					
	Excavation	0.1865	0.1727	0.1727	1.00	0.1722
	Fill	0.1414	0.0005	0.0005	1.00	0.1722

185+50	EARTH					
	Excavation	0.0000	0.1727	0.1727	1.00	0.3445
	Fill	0.0000	0.0005	0.0005	1.00	0.3445

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SHEET 22 OF 24  
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Jarnigan Earthwork

Station	Material Name	End Areas (sq. ft.)	Unadjusted Volumes (cu. yd.)	Adjusted Volumes (cu. yd.)	Mult Factor	Mass Ordinate
100+60	EARTH					
	Excavation	3.2037	2.9664	2.9664	1.00	2.9616
	Fill	0.0869	0.0048	0.0048	1.00	2.9616
100+70	EARTH					
	Excavation	3.3209	6.0413	6.0413	1.00	8.6233
	Fill	3.3065	0.3796	0.3796	1.00	8.6233
100+80	EARTH					
	Excavation	4.9462	7.6547	7.6547	1.00	14.7292
	Fill	7.6196	1.5488	1.5488	1.00	14.7292
100+90	EARTH					
	Excavation	2.1279	6.5501	6.5501	1.00	19.6863
	Fill	5.5129	1.5929	1.5929	1.00	19.6863
101+00	EARTH					
	Excavation	137.8022	129.5649	129.5649	1.00	118.6871
	Fill	7.2256	30.5641	30.5641	1.00	118.6871
101+10	EARTH					
	Excavation	100.4034	220.5607	220.5607	1.00	277.6571
	Fill	7.8537	61.5908	61.5908	1.00	277.6571

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101+20	EARTH					
	Excavation	59.8788	148.4094	148.4094	1.00	382.9852
	Fill	7.8218	43.0813	43.0813	1.00	382.9852
101+30	EARTH					
	Excavation	41.5781	93.9416	93.9416	1.00	447.1515
	Fill	9.2938	29.7753	29.7753	1.00	447.1515
101+40	EARTH					
	Excavation	42.3793	77.7383	77.7383	1.00	496.5700
	Fill	10.3782	28.3198	28.3198	1.00	496.5700
101+50	EARTH					
	Excavation	54.1602	89.3884	89.3884	1.00	552.7397
	Fill	9.6894	33.2187	33.2187	1.00	552.7397
101+60	EARTH					
	Excavation	70.1825	115.1321	115.1321	1.00	623.0656
	Fill	11.3259	44.8062	44.8062	1.00	623.0656
101+70	EARTH					
	Excavation	95.0692	153.0108	153.0108	1.00	719.7203
	Fill	8.5631	56.3562	56.3562	1.00	719.7203
101+80	EARTH					
	Excavation	108.9507	188.9073	188.9073	1.00	852.1751
	Fill	7.5741	56.4525	56.4525	1.00	852.1751
101+90	EARTH					

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	Excavation	112.1069	204.6830	204.6830	1.00	999.9585
	Fill	7.4373	56.8996	56.8996	1.00	999.9585
102+00	EARTH					
	Excavation	110.1417	205.7857	205.7857	1.00	1177.4018
	Fill	0.0000	28.3424	28.3424	1.00	1177.4018
102+10	EARTH					
	Excavation	127.4200	219.9645	219.9645	1.00	1397.3663
	Fill	0.0000	0.0000	0.0000	1.00	1397.3663
102+20	EARTH					
	Excavation	4.2200	121.8889	121.8889	1.00	1519.2552
	Fill	0.0000	0.0000	0.0000	1.00	1519.2552
102+30	EARTH					
	Excavation	0.0000	3.9074	3.9074	1.00	1523.1626
	Fill	0.0000	0.0000	0.0000	1.00	1523.1626

Note: Driveway quantities were manually calculated using driveway profiles without using earthwork cross section tools. The total driveways earthwork quantities is shown in the table above.