

Jun-07-2011 10:34:00AM
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EARTH EXCAVATION SCHEDULE

CONTRACT NO. 72667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3B)	MORGAN	793	18
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

LOCATION STATION TO STATION	1	2	3	4	5	6	7	8	9	10	
	THEORETICAL CUT	TOPSOIL 4" CUT	ADJUSTMENT 4" FILL	4" TOPSOIL PLACEMENT SO YD	ADJUSTED EARTHWORK CUT FILL		FILL X 1.25	EXCESS (BORROW)	CUMULATIVE EXCESS (BORROW)	FURNISHED EXCAVATION	
	CU YD						CU YD				
STAGE I											
FAP 310 (US 67)											
800+00	815+00	3221	418	328	6714	3639	5578	6973	(3334)	(3334)	2667
815+00	830+00	4250	1291	947	20142	5541	24455	30569	(25028)	(28362)	20022
TEMPORARY ACCESS ROAD											
0+00	30+15	2553	0	0	0	2553	1628	2035	518	518	(414)
US 67 FRONTAGE ROAD (CONCORD)											
9+50	51+53	19148	2762	1418	37620	21910	30642	38303	(16393)	(16393)	13114
NEW STREET											
300+12	313+35	3990	425	23	4032	4415	607	759	3656	3656	(2925)
RELOCATED CYLINDER HEAD ROAD											
93+83	106+25	5513	733	200	8397	6246	968	1210	5036	5036	(4029)
OLD CYLINDER HEAD ROAD											
0+00	3+00	1046	175	68	2187	1221	197	246	975	975	(780)
GILLILAND ROAD CONNECTOR											
10+00	11+30	238	20	0	180	258	0	0	258	258	(206)
SWALE 25											
0+00	2+50	225	0	0	0	225	0	0	225	225	(180)
SWALE 9655											
0+00	3+65	211	0	0	0	211	22	28	183	183	(147)
SUBTOTAL STAGE I											
		40395	5824	2984	79272	46219	64097	80123	(33904)		27122
STAGE II											
FAP 310 (US 67)											
770+00	785+00	131	6	39	405	137	39	49	88	88	(71)
785+00	800+00	5570	763	720	13347	6333	8255	10319	(3986)	(3986)	3189
800+00	830+00	13380	2849	1812	41949	16229	24575	30719	(14490)	(18388)	11592
830+00	845+00	5865	1209	1538	24723	7074	27547	34434	(27360)	(45748)	21888
845+00	860+00	11962	1838	1292	28170	13800	22243	27804	(14004)	(59752)	11203
860+00	875+00	38357	2374	1121	31455	40731	31231	39039	1692	(58060)	(1354)
875+00	890+00	55949	2697	777	31266	58646	11666	14583	44063	(13997)	(35251)
890+00	905+00	51048	3625	493	37062	54673	4200	5250	49423	35426	(39538)
905+00	920+00	30999	3250	343	32337	34249	1906	2383	31866	67292	(25493)
920+00	935+00	23286	2132	1149	29529	25418	22792	28490	(3072)	64220	2458
935+00	950+00	6818	1050	1197	20223	7868	22480	28100	(20232)	43988	16186
950+00	965+00	4872	603	715	11862	5475	21817	27271	(21796)	22192	17437
965+00	980+00	653	122	327	4041	775	10006	12508	(11733)	10459	9386
1070+00	1085+00	1996	179	94	2457	2175	1784	2230	(55)	10404	44
1100+00	1115+00	4371	295	15	2790	4666	123	154	4512	14916	(3610)
1115+00	1130+00	5569	672	618	11610	6241	9187	11484	(5243)	9673	4194
1130+00	1145+00	2978	512	379	8019	3490	11428	14285	(10795)	(1122)	8636
TRANSITION A											
970+26	980+28	5242	238	23	2349	5480	3028	3785	1695	1695	(1356)
TRANSITION B											
1104+56	1110+82	21	0	0	0	21	1169	1461	(1440)	(1440)	1152
CONCORD ROAD											
8+03	19+40	3601	596	1507	18927	4197	95287	119109	(114912)	(114912)	91929
20+60	35+00	3862	586	1713	20691	4448	92515	115644	(111196)	(226108)	88957
RAMP A											
1+00	12+70	1045	316	812	10152	1361	29069	36336	(34975)	(34975)	27980
RAMP B											
10+51	18+00	1991	353	491	7596	2344	15219	19024	(16680)	(16680)	13344
RAMP C											
2+00	9+42	1035	219	519	6642	1254	15767	19709	(18455)	(18455)	14764
RAMP D											
8+98	19+00	1102	382	628	9090	1484	19306	24133	(22649)	(22649)	18119
COOPER STREET											
442+65	448+56	1052	184	82	2394	1236	171	214	1022	1022	(818)
RELOCATED CREWS LANE											
52+00	57+03	2363	385	51	3924	2748	240	300	2448	2448	(1958)
ASH STREET											
2+50	4+00	26	0	0	0	26	0	0	26	26	(21)
BETHEL LANE											
72+70	74+65	179	10	0	90	189	0	0	189	189	(151)
81+25	92+00	2185	514	141	5895	2699	2056	2570	129	318	(103)
SERVICE DRIVE 91											
591+50	593+85	453	111	11	1098	564	59	74	490	490	(392)
US 67 FRONTAGE ROAD (BETHEL)											
510+50	523+00	1993	371	83	4086	2364	1228	1535	829	829	(663)
RELOCATED CYLINDER HEAD ROAD											
106+25	109+25	661	104	4	972	765	26	33	732	732	(586)
DUTCH LANE WEST											
194+41	198+70	1337	109	109	1962	1446	2537	3171	(1725)	(1725)	1380
SWALE 851											
0+00	1+72	168	0	0	0	168	0	0	168	168	(134)
SWALE 922											
0+00	4+52	832	0	0	0	832	0	0	832	832	(666)
SUBTOTAL STAGE II											
		292952	28654	18803	427113	321606	508956	636200	(314594)		251673

EARTHWORK NOTES:

A MASS DIAGRAM FOR THE EARTHWORK IS NOT INCLUDED IN THESE PLANS AND WILL NOT BE AVAILABLE TO THE CONTRACTOR UPON REQUEST. THE EARTHWORK SCHEDULE HAS BEEN INCLUDED IN THESE PLANS TO TAKE THE PLACE OF THE NEED FOR A MASS DIAGRAM. THE SCHEDULE GIVES QUANTITIES IN "COLUMN 10" FOR EXCESS EXCAVATION OR BORROW REQUIRED IN EACH SPECIFIED AREA ALONG THE LIMITS OF THE PROJECT. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE REQUIRED HAUL DISTANCES AND QUANTITIES FROM THE INFORMATION SHOWN.

THE QUANTITIES SHOWN IN THE SCHEDULE INCLUDE ALL MAINLINE, SIDEROAD, AND ENTRANCE QUANTITIES IN EACH SPECIFIED AREA.

ALL TOPSOIL NECESSARY FOR PLACEMENT ON THIS PROJECT MAY BE TAKEN FROM AREAS WITHIN THE CONSTRUCTION LIMITS, AND ADDITIONAL QUANTITIES FOR FURNISHED EXCAVATION ARE INCLUDED TO REPLACE THIS MATERIAL LOSS. TOPSOIL FURNISH AND PLACE 4" WILL BE MEASURED FOR PAYMENT IN SQUARE YARDS AND BE CONSIDERED AS BEING OBTAINED FROM OUTSIDE THE RIGHT-OF-WAY PER ARTICLE 211.07 OF THE STANDARD SPECIFICATIONS.

SUITABLE EXCAVATED MATERIAL FOR RIPRAP PLACEMENT CAN BE USED AS FURNISHED EXCAVATION, THIS MATERIAL NOT INCLUDED IN THE SCHEDULE AS EXCESS/BORROW.

QUANTITIES FOR THE DEGRADING OF EXISTING CONDITIONS HAVE BEEN INCLUDED IN THE APPROXIMATE STATION RANGE WHERE SUCH DEGRADING TAKES PLACE.

A SHRINKAGE FACTOR OF 20% WAS USED TO DETERMINE THE EXCESS AND BORROW QUANTITIES. SHRINKAGE FACTOR = 1.00/(1.00-0.20) = 1.0/0.80 = 1.25

- COLUMN 4 = (COLUMN 2 + COLUMN 3) x 9
- COLUMN 5 = COLUMN 1 + COLUMN 2
- COLUMN 7 = COLUMN 6 x 1.25 (SHRINKAGE FACTOR)
- COLUMN 8 = COLUMN 5 - COLUMN 7
- COLUMN 10 = COLUMN 6 - (10.80 x COLUMN 5)

EARTHWORK QUANTITIES:

- 20200100 EARTH EXCAVATION = (COLUMN 6) = 643,663 CU YD +
- 20400800 FURNISHED EXCAVATION = COLUMN 12 = 436,883 CU YD
- 21101615 TOPSOIL FURNISH AND PLACE, 4" = COLUMN 5 = 877,140 SO YD
- - SEE GEOTECHNICAL SCHEDULE FOR ADDITIONAL QUANTITIES

REVISIED SHEET 6-6-11

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SCHEDULE OF QUANTITIES
 FAP 310 (US 67/IL 104)
 SHEET 2 OF 42
 DRAWN BY EBB
 CHECKED BY
 DATE 10/10