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Jun-07-2011 10:34:16 AM  
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EARTH EXCAVATION SCHEDULE - CONTINUED

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) CU YD	CUMULATIVE EXCESS (BORROW)	FURNISHED EXCAVATION	
STAGE III											
FAP 310 (US 67)											
762+00	770+00	485	305	24	2961	790	42	53	737	737	(590)
770+00	785+00	9339	1021	153	10566	10360	340	425	9935	10672	(7948)
785+00	800+00	4842	698	118	7344	5540	362	453	5087	15759	(4070)
815+00	830+00	2803	121	65	1674	2924	1530	1913	1011	16770	(809)
875+00	890+00	1618	319	73	3528	1937	11	14	1923	18693	(1539)
890+00	905+00	377	132	3	1215	509	0	0	509	19202	(407)
935+00	950+00	805	242	372	5526	1047	4270	5338	(4291)	14911	3432
950+00	965+00	1629	423	924	12123	2052	14565	18206	(16154)	(1243)	12923
965+00	980+00	7286	711	588	11691	7997	13208	16510	(8513)	(9756)	6810
980+00	995+00	5089	652	625	11493	5741	13700	17125	(11384)	(21140)	9107
995+00	1010+00	1761	327	772	9891	2088	25513	31891	(29803)	(50943)	23843
1010+00	1025+00	3779	515	767	11538	4294	20291	25364	(21070)	(72013)	16856
1025+00	1040+00	3208	492	507	8991	3700	14298	17873	(14173)	(86186)	11338
1040+00	1055+00	4620	574	389	8667	5194	15174	18968	(13774)	(99960)	11019
1055+00	1070+00	16894	1098	193	11619	17992	4022	5028	12964	(86996)	(10372)
1070+00	1085+00	5453	370	747	10053	5823	22477	28096	(22273)	(109269)	17819
1085+00	1100+00	70203	1645	1108	24777	71848	55183	68979	2869	(106400)	(2295)
1100+00	1115+00	6073	620	879	13491	6693	25464	31830	(25137)	(131537)	20110
1115+00	1130+00	4256	1218	833	18459	5474	6531	8164	(2690)	(134227)	2152
1130+00	1145+00	1925	620	695	11835	2545	9367	11709	(9164)	(143391)	7331
TEMPORARY ACCESS ROAD											
0+00	30+15	1628	0	0	0	1628	2553	3191	(1563)	(1563)	1251
CONCORD ROAD											
27+00	37+65	920	427	396	7407	1347	1152	1440	(93)	(93)	74
US 67 FRONTAGE ROAD (CONCORD)											
1+23	12+00	45	79	130	1881	124	410	513	(389)	(389)	311
50+00	54+20	7	3	17	180	10	168	210	(200)	(589)	160
RAMP A											
12+00	12+70	505	78	11	801	583	48	60	523	523	(418)
RAMP C											
2+00	9+42	1456	454	217	6039	1910	569	711	1199	1199	(959)
ASH STREET											
4+00	9+50	21	0	0	0	21	2	3	18	18	(15)
BETHEL LANE											
74+65	78+75	969	200	37	2133	1169	529	661	508	508	(406)
OLD CYLINDER HEAD ROAD											
3+00	9+50	699	149	26	1575	848	79	99	749	749	(599)
GILLILAND ROAD CONNECTOR											
11+30	12+85	570	64	0	576	634	0	0	634	634	(507)
GILLILAND ROAD EXTENSION											
20+75	27+50	714	137	24	1449	851	152	190	661	661	(529)
DUTCH LANE EAST											
138+04	148+80	3946	632	37	6021	4578	411	514	4064	4064	(3251)
HART'S GRAVEL ROAD											
289+67	298+78	4297	295	761	9504	4592	16436	20545	(15953)	(15953)	12762
SUBTOTAL STAGE III											
		168222	14621	11491	235008	182843	268857	336076	(153233)		122584

CONTRACT NO. 72667				
F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	19
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

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 - (0.80 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		ILLINOIS DEPARTMENT OF TRANSPORTATION  SCHEDULE OF QUANTITIES FAP 310 (US 67/IL 104) SHEET 3 OF 42  DRAWN BY EBB CHECKED BY  DATE 10/10
NAME	DATE	