

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

EARTH EXCAVATION SCHEDULE - CONTINUED

LOCATION STATION TO STATION	1	2	3	4	5	6	7	8	9	10	11	12	
	THEORETICAL		TOPSOIL ADJUSTMENT		4" TOPSOIL PLACEMENT	ADJUSTED EARTHWORK			TOPSOIL EXC. & PLACEMENT	EXCESS (BORROW)	CUMULATIVE EXCESS (BORROW)	FURNISHED EXCAVATION	
	CUT	FILL	4" CUT	4" FILL		CUT	FILL	FILL X 1.25					
CU YD					SO YD	CU YD							
STAGE III													
FAP 310 (US 67)													
762+00	770+00	485	42	305	24	2961	790	42	53	329	408	408	(327)
770+00	785+00	9339	340	1021	153	10566	10360	340	425	1174	8761	9169	(7009)
785+00	800+00	4842	362	698	118	7344	5540	362	453	816	4271	13440	(3417)
815+00	830+00	2803	1530	121	65	1674	2924	1530	1913	186	825	14265	(660)
875+00	890+00	1618	11	319	73	3528	1937	11	14	392	1531	15796	(1225)
890+00	905+00	377	0	132	3	1215	509	0	0	135	374	16170	(299)
935+00	950+00	805	4270	242	372	5526	1047	4270	5338	614	(4905)	11265	3924
950+00	965+00	1629	14565	423	924	12123	2052	14565	18206	1347	(17501)	(6236)	14001
965+00	980+00	7286	13208	711	588	11691	7997	13208	16510	1299	(9812)	(16048)	7850
980+00	995+00	5089	13700	652	625	11493	5741	13700	17125	1277	(12661)	(28709)	10129
995+00	1010+00	1761	25513	327	772	9891	2088	25513	31891	1099	(30902)	(59611)	24722
1010+00	1025+00	3779	20291	515	767	11538	4294	20291	25364	1282	(22352)	(81963)	17881
1025+00	1040+00	3208	14298	492	507	8991	3700	14298	17873	999	(15172)	(97135)	12137
1040+00	1055+00	4620	15174	574	389	8667	5194	15174	18968	963	(14737)	(111872)	11789
1055+00	1070+00	16894	4022	1098	193	11619	17992	4022	5028	1291	11673	(100199)	(9339)
1070+00	1085+00	5453	22477	370	747	10053	5823	22477	28096	1117	(23390)	(123589)	18712
1085+00	1100+00	70203	55183	1645	1108	24777	71848	55183	68979	2753	116	(123473)	(93)
1100+00	1115+00	6073	25464	620	879	13491	6693	25464	31830	1499	(26636)	(150109)	21309
1115+00	1130+00	4256	6531	1218	833	18459	5474	6531	8164	2051	(4741)	(154850)	3793
1130+00	1145+00	1925	9367	620	695	11835	2545	9367	11709	1315	(10479)	(165329)	8383
TEMPORARY ACCESS ROAD													
0+00	30+15	1628	2553	0	0	0	1628	2553	3191	0	(1563)	(1563)	1251
CONCORD ROAD													
27+00	37+65	920	1152	427	396	7407	1347	1152	1440	823	(916)	(916)	733
US 67 FRONTAGE ROAD (CONCORD)													
1+23	12+00	45	410	79	130	1881	124	410	513	209	(598)	(598)	478
50+00	54+20	7	168	3	17	180	10	168	210	20	(220)	(818)	176
RAMP A													
12+00	12+70	505	48	78	11	801	583	48	60	89	434	434	(347)
RAMP C													
2+00	9+42	1456	569	454	217	6039	1910	569	711	671	528	528	(422)
ASH STREET													
4+00	9+50	21	2	0	0	0	21	2	3	0	18	18	(15)
BETHEL LANE													
74+65	78+75	969	529	200	37	2133	1169	529	661	237	271	271	(217)
OLD CYLINDER HEAD ROAD													
3+00	9+50	699	79	149	26	1575	848	79	99	175	574	574	(459)
GILLILAND ROAD CONNECTOR													
11+30	12+85	570	0	64	0	576	634	0	0	64	570	570	(456)
GILLILAND ROAD EXTENSION													
20+75	27+50	714	152	137	24	1449	851	152	190	161	500	500	(400)
DUTCH LANE EAST													
138+04	148+80	3946	411	632	37	6021	4578	411	514	669	3395	3395	(2716)
HART'S GRAVEL ROAD													
289+67	298+78	4297	16436	295	761	9504	4592	16436	20545	1056	(17009)	(17009)	13607
SUBTOTAL STAGE III													
		168222	268857	14621	11491	235008	182843	268857	336076	26112	(179345)		143474

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 SHALL BE TAKEN FROM AREAS WITHIN THE CONSTRUCTION LIMITS, AND ADDITIONAL QUANTITIES FOR FURNISHED EXCAVATION ARE INCLUDED TO REPLACE THIS MATERIAL LOSS. TOPSOIL EXCAVATION AND PLACEMENT WILL BE MEASURED FOR PAYMENT.

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 5 = (COLUMN 3 + COLUMN 4) x 9
 COLUMN 6 = COLUMN 1 + COLUMN 3
 COLUMN 8 = COLUMN 7 x 1.25 (SHRINKAGE FACTOR)
 COLUMN 9 = (COLUMN 3 + COLUMN 4) x 1.00 (SHRINKAGE FACTOR)
 COLUMN 10 = COLUMN 6 - COLUMN 8 - COLUMN 9
 COLUMN 12 = COLUMN 7 - 0.80 x (COLUMN 6 - COLUMN 9)

EARTHWORK QUANTITIES:

- 20200100 EARTH EXCAVATION = (COLUMN 6 - COLUMN 9) = 546,203 CU YD •
- 20400800 FURNISHED EXCAVATION = COLUMN 12 = 514,850 CU YD
- 21101615 TOPSOIL FURNISH AND PLACE, 4" = COLUMN 5 = 877,140 SO YD
- - SEE GEOTECHNICAL SCHEDULE FOR ADDITIONAL QUANTITIES

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REVISIONS	
NAME	DATE

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