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4/26/2011

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EARTH EXCAVATION SCHEDULE - CONTINUED

CONTRACT NO. 72667

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
310	69-3(3HB)	MORGAN	793	20
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		11		12			
	THEORETICAL		TOPSOIL ADJUSTMENT		4" TOPSOIL		ADJUSTED EARTHWORK		TOPSOIL EXC.		EXCESS		CUMULATIVE		FURNISHED											
	CUT	FILL	4" CUT	4" FILL	PLACEMENT	CUT	FILL	FILL X 1.25	& PLACEMENT	(BORROW)	EXCESS (BORROW)	EXCESS (BORROW)	EXCAVATION													
STAGE IV																										
FAP 310 (US 67)																										
875+00 890+00	0	69	14	49	567	14	69	86	63	(135)	(135)	108														
890+00 905+00	38	0	35	0	315	73	0	0	35	38	(97)	(30)														
905+00 920+00	0	0	13	0	117	13	0	0	13	0	(97)	0														
925+00 950+00	12	9	7	7	126	19	9	11	14	(6)	(103)	5														
955+00 980+00	67	8446	6	497	4527	73	8446	10558	503	(10988)	(11091)	8790														
980+00 995+00	5560	14037	763	682	13005	6323	14037	17546	1445	(12668)	(23759)	10135														
995+00 1010+00	1899	15534	458	992	13050	2357	15534	19418	1450	(18511)	(42270)	14808														
1010+00 1025+00	6069	18522	748	966	15426	6817	18522	23153	1714	(18050)	(60320)	14440														
1025+00 1040+00	4709	19270	609	887	13464	5318	19270	24088	1496	(20266)	(80586)	16212														
1040+00 1055+00	2905	13183	359	1047	12654	2364	13183	16479	1406	(15521)	(96107)	12417														
1055+00 1070+00	4836	7932	591	973	14076	5427	7932	9915	1564	(6052)	(102159)	4842														
1070+00 1085+00	7835	5157	872	386	11322	8707	5157	6446	1258	1003	(101156)	(802)														
1085+00 1100+00	16534	2554	868	304	10548	17402	2554	3193	1172	13037	(88119)	(10430)														
1100+00 1115+00	17700	10	1046	34	9720	18746	10	13	1080	17653	(70466)	(14123)														
US 67 FRONTAGE ROAD (BETHEL)																										
520+00 524+68	39	94	25	11	324	64	94	118	36	(90)	(90)	72														
ST. PAUL'S CHURCH ROAD																										
121+27 127+83	3073	260	346	46	3528	3419	260	325	392	2702	2702	(2162)														
SERVICE DRIVE 92																										
600+50 603+76	426	113	61	31	828	487	113	141	92	254	254	(203)														
DUTCH LANE WEST																										
201+29 211+50	13064	4597	898	346	11196	13962	4597	5746	1244	6972	6972	(5577)														
PRIVATE DRIVE 81A																										
100+50 103+88	330	1	99	7	954	429	1	1	106	322	322	(257)														
SUBTOTAL STAGE IV	84196	109788	7818	7265	135747	92014	109788	137237	15083	(60306)		48245														
STAGE V																										
FAP 310 (US 67)																										
920+00 935+00	345	43	0	0	0	345	43	54	0	291	291	(233)														
935+00 950+00	391	69	0	0	0	391	69	86	0	305	596	(244)														
1070+00 1085+00	245	0	0	0	0	245	0	0	0	245	841	(196)														
SUBTOTAL STAGE V	981	112	0	0	0	981	112	140	0	841		(673)														
PROJECT TOTALS	586746	951810	56917	40543	877140	643663	951810	1189776	97460	(643573)		514850														

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 SQ YD
- * - SEE GEOTECHNICAL SCHEDULE FOR ADDITIONAL QUANTITIES

EARTH EXCAVATION (WIDENING)

20200500

STATION TO STATION	SIDE	SO YD	DEPTH	CU YD
CONCORD ROAD				
33+39.0 34+84.0	LT	32.2	8.0	7.2
33+39.0 34+84.0	RT	32.2	8.0	7.2
COOPER STREET				
442+65.0 446+00.0	LT	79.2	9.0	19.8
444+71.2 447+38.1	RT	199.3	9.0	49.8
446+12.8 447+81.5	LT	21.3	9.0	5.3
ASH STREET				
8+73.1 9+87.6	LT	92.0	9.0	23.0
9+17.5 9+87.6	RT	67.3	9.0	16.8
TOTAL				129.1
USE				130

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 SCHEDULE OF QUANTITIES
 FAP 310 (US 67/IL 104)
 SHEET 4 OF 42
 DRAWN BY EBB
 CHECKED BY
 DATE 10/10