SCHEDULE OF EARTHWORK QUANTITIES

LOCATION					TOPSOIL EARTH WORK				SUBGRADE IMPROVEMENT			
	TOPSOIL UNDERCUTS CUT		FILL	20201100	20200100		20400800					
	STRIPPING	(UC)	(C)	(F)	EARTH	EARTH	EMBANKMENT	FURNISHED EX.	REMOVAL &	AGGREGATE	21001000 GEOTECHNICAL	
j	(TSS)				EXCAVATION	EXCAVATION		BALANCE	DISPOSAL OF	SUBGRADE	FABRIC FOR	
	·							WASTE (+) or	UNSUITABLE	IMPROVEMENT	GROUND	
<u>[</u>					1	}	!	SHORTAGE (-)	MATERIAL	THE ROTEINE	STABILIZATION	
	(SQ FT)	(SQ FT)	(SQ FT)	(SQ FT)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(SQ YD)	
10+50.00	0.6	0.0					,	;′		(33,13)	(50(12)	
11+00.00	8.8	0.0	24.6		8.70	48.61	11.57	+29.75	0.00	0.00		
11+50.00	9.2	0.0	28.2		16.67	48.89		+14.25	0.00			
12+00.00	11.0	0.0	30.2		18.70	54.07	38.61	+7.35	0.00			
12+50.00	12.4	0.0	31.5		21.67	57.13	48.61	-0.05	0.00	0.00	!	
13+00.00	9.9	14.3	32.6	22.8	20.65	59.35	46.85	+3.60	13.24	13.24	79.44	
13+50.00	10.1	14.4	34.1	4.8	18.52	61.76			26.57	26.57	159.42	
14+00.00	8.9	14.4	37.6	6.6	17.59	66.39	10.56		26.67	26.67	160.02	
14+50.00	15.0	14.3	40.1	19.6	22.13	71.94	24.26	+36.89	26.57	26.57	159.42	
15+00.00	14.0	14.6	26.3	36.8	26.85	61.48		+0.04	26.76	26.76	160.56	
15+50.00	17.4	13.2	30.6	68.9	29.07	52.69	97.87	-53.08	25.74	25.74 25.74	154.44	
15+87.00	7.2	0.0	21.8	0.4	16.86	35.90	47.48	-16.97	9.04	9.04	54.24	
							,0	. 10.07	3.04	9.04	04.24	
19+85.00	5.9	7.8	11.9	0.4				:				
20+00.00	11.8	7.8	8.4	12.1	4.92	5.64	3.47	+1.32	4.33	4.33	0.00	
20+50.00	19.8	43.7	17.6	105.3	29.26	24.07	108.70	-88.24	47.69	47.69	8.66	
21+00.00	19.2	14.6	13.6	93.2	36.11	28.89	183.80	-159.24	53.98	53.98	95.38	
21+50.00	18.2	14.6	18.0	87.0	34.63	29.26	166.85	-141.98	27.04	27,04	107,96	
22+00.00	24.1	14.5	27.9	54.5	39.17	42.50	131.02	-94.90	26.94	26.94	162.24	
22+50.00	20.0	15.5	16.0	61.2	40.83	40.65	107.13	-72.58	27.78		161.64	
23+00.00	19.2	14.5	12.7	67.8	36.30	26.57	119.44	-96.86	27.78	27.78	166.68	
23+50.00	17.5	13.7	15.7	68.9	33.98	26.30	126.57	-104.22	26.11	27.78	166.68	
24+00.00	17.7	12.8	34.1	12.1	32.59	46.11	75.00	-35.81	24.54	26.11	156.66	
24+50.00	15.1	11.8	26.2	48.7	30.37	55.83	56.30	-8.84	22.78	24.54	147.24	
25+00.00	12.7	11.6	30.0	38.0	25,74	52.04	80.28	-36.05		22.78	136.68	
25+50.00	11.5	11.6	33.5	28.2	22.41	58.80	61.30	-11.32	21.67	21.67	130.02	
26+00.00	10.9	11.6	31.9	20.6	20.74	60.56	45.19		21.48	21.48	128.88	
26+50.00	10.5	8.6	27.0	10.9	19.81	54.54	29.17	+6.29 +17.19	21.48	21.48	128.88	
26+87.00	12.1	8.6	34.8	0.8	15.49	42.34	8.02	+17.19	18.70	18.70	112.20	
27+00.00	5.5	0.0	4.7	0.0	4.24	9.51	0.19		11.79	11.79	70.74	
27+50.00	4.4	0.0	5.0	0.0	9.17	8.98	0.00	+7.89	2.07	2.07	12.42	
28+14.00	4.5	0.0	4.8	0.0	10.55	11.61		+7.63	0.00	0.00	0.00	
			4.0	0.0	10.55	13.01	0.00	+9.87	0.00	0.00	0.00	
HRINKAGE FA	CTOR		15%	TOTAL	663.7	1,242.4	1,733.3	-771.9	540.8	540.8	2,820.5	
			į	ADJ. TOTAL	665.0	1,245.0		775.0	600.0	600.0	2,900.0	

EARTHWORK GENERAL NOTES

ALL EARTHWORK QUANTITIES ARE CALCULATED BY THE METHOD OF AVERAGE END AREAS USING THE PLAN CROSS SECTIONS.

SHRINKAGE FACTOR, ASSUMED TO BE 15% FOR THIS PROJECT, ARE ESTIMATED FOR THE PURPOSE OF DETERMINING A BALANCE OF EARTHWORK. THE CONTRACTOR SHALL ESTIMATE HIS OWN SHRINKAGE FACTORS IN DETERMINING HIS EARTHWORK. NO PAYMENT WILL BE MADE ON EARTHWORK QUANTITIES DUE TO VARIATION IN THE SHRINKAGE FACTOR SINCE EARTHWORK IS MEASURED IN ITS FINAL POSITION.

IT HAS BEEN ASSUMED THAT STAGING WILL PREVENT SURPLUS EARTH FROM THE WEST SIDE OF THE BRIDGE FROM BEING AVAILABLE FOR FILL ON THE EAST SIDE. THEREFORE, THE SURPLUS BETWEEN STATIONS 10+50 AND 15+87 DO NOT FACTOR INTO THE TOTAL FOR FURNISHED EXCAVATION.

RECOMMENDATIONS OUTLINED IN THE ROADWAY GEOTECHNICAL REPORT PREPARED BY TESTING SERVICE CORPORATION, DATED SEPTEMBER 5, 2006 AND UPDATED AUGUST 10, 2007 WERE USED IN PREPARATION OF THE ROADWAY PLANS AND RELATED EARTHWORK CALCULATIONS.

AS OUTLINED IN THE ROADWAY GEOTECHNICAL REPORT, THE TOPSOIL THICKNESS WAS ESTIMATED AT 3-B INCHES. FOUR (4) INCHES WAS ASSUMED ON THIS PROJECT FOR THE PURPOSE OF CALCULATING TOPSOIL STRIPPING QUANTITIES.

IF UNDERCUTS ARE ENCOUNTERED, UNDERCUTS WILL BE PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL. AFTER TOPSOIL STRIPPING AND VEGATATION CLEARING AND PRIOR TO UNDERCUTTING, THE SUBGRADE WILL BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER IN ACORDANCE WITH THE IDOT SUBGRADE STABILITY MANUAL TO DETERMINE REMEDIAL TREATMENT.

TESTING OF SUBGRADES AND EMBANKMENTS WILL BE REQUIRED. TESTING REQUIRMENTS WILL BE PER THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND THE SUBGRADE STABILITY MANUAL, IF PROOF ROLLS ARE REQUIRED BY THE ENGINEER, THE COST SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

EARTH EXCAVATION SHALL BE PAID FOR ONLY ONCE, REGARDLESS OF STAGING OR SEQUENCING OF CONTRACTORS OPERATIONS THAT REQUIRE STOCKPILING OF MATERIALS FOR LATER USE, REDISTRIBUTION AND RESPREADING IN SHOULDERS AND CONSTRUCTING OF EMBANKMENTS. HANDLING OF TOPSOIL WHETHER FROM AN ON-SITE STOCKPILE OR FROM AN OFF-SITE LOCATION WILL BE PAID FOR AS "TOPSOIL FURNISH AND PLACE, 4"". UNDERCUTS QUANITIES HAVE BEEN CALULATED BASED ON THE FOLLOWING UNDERCUT RECOMMENTATIONS:

STA. 13+00 TO STA. 16+87: UNDERCUT 6" AND REPLACE WITH AGG. SUBRADE IMPROVEMENT STA. 18+80 TO STA. 20+56: UNDERCUT 18" AND REPLACE WITH AGG. SUBRADE IMPROVEMENT STA. 20+56 TO STA. 23+50: NO SPECIAL TREATMENT SUGGESTED STA. 23+50 TO STA. 26+50: UNDERCUT 6" AND REPLACE WITH AGG. SUBRADE IMPROVEMENT

AGGREGATE SUBGRADE IMPROVEMENT, 12" IS PROPOSED UNDER THE FULL DEPTH PAVEMENT. ANY AGGREGATE SUBGRADE IMPROVEMENT FOR UNDERCUT BELOW THIS 12" BASE WILL BE PAID FOR SEPARATELY PER CUBIC YARD OF "AGGREGATE SUBGRADE IMPROVEMENT".

THE TOTAL ESTIMATED QUANTITY FOR "AGGREGATE SUBGRADE IMPROVEMENT". HAS BEEN ROUNDED UP APPROXIMATELY 60 CU YD TO ACCOUNT FOR POSSIBLE ADDITIONAL UNDERCUT THAT MAY BE REQUIRED DEPENDING ON FIELD CONDITIONS.

WILLS BURKE KELSEY ASSOCIATES LTD.

WBK 118 West Mein Street, Suize 201

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	USER NAME = nparris	DESIGNED	-	KMA	REVISED	-
D.		DRAWN	-	КМА	REVISED	-
	PLOT SCALE # 1+1	CHECKED	-	DPB	REVISED	-
	PLUT DATE = 12/20/2012	DATE	-	12/21/12	REVISED	-

STATE	OF	ILLINOIS
DEPARTMENT (OF 1	RANSPORTATION

	SCHEDULE OF QUANTITIES	F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.	
			5355	10-00167-01-WR	DEKALB	78	14
SCALE:	SHEET NO. 6 OF 6 SHEETS STA.	TO STA.		I	CONTRACT NO.87544		
		ILLINOIS FED. AID PROJECT					