

EARTHWORK SCHEDULES

LOCATION	END AREAS			EARTH WORK				SUBGRADE IMPROVEMENT				
	TOPSOIL STRIPPING (TSS)	CUT (C)	FILL (F)	20201200 REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL	20200100 EARTH EXCAVATION	EMBANKMENT	BALANCE WASTE (+) or SHORTAGE (-)	20300100 CHANNEL EXCAVATION	20201200 REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL	Z0042002 POROUS GRANULAR EMBANKMENT SUBGRADE	21001000 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	
	(SQ FT)	(SQ FT)	(SQ FT)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(SQ YD)	
8+00.00	12.2	36.5	7.2									
8+50.00	15.0	42.6	4.2	25.19	73.24	10.56	+51.69					
9+00.00	17.9	81.6	1.0	30.46	115.00	4.81	+92.94					
9+50.00	43.6	165.1	1.2	56.94	228.43	2.04	+192.13					
10+00.00	20.1	72.5	0.0	58.98	220.00	1.11	+185.89					
10+50.00	19.0	10.2	8.9	36.20	76.57	8.24	+56.84					
10+76.49	19.4	3.2	58.1	18.84	6.57	32.87	-27.29					
10+90.00	19.3	0.1	74.8	9.68	0.83	33.25	-32.54					
11+00.00	19.0	0.2	77.1	7.09	0.06	28.13	-28.08					
11+06.49	20.1	0.3	89.2	4.70	0.06	19.99	-19.94				174.20	
ESTIMATED									50.00	50.00	150.00	
SOUTH OF BRIDGE SUB-TOTAL				248.1	720.8	141.0	471.6		50.0	50.0	324.2	
11+64.51	24.6	3.3	111.5									
11+94.51	28.1	3.4	108.6	29.28	3.72	122.28	-119.12				185.30	
12+00.00	26.5	3.8	72.6	5.55	0.73	18.42	-17.80					
12+50.00	23.1	14.2	32.4	45.93	16.67	97.22	-83.05					
13+00.00	23.2	26.9	15.7	42.87	38.06	44.54	-12.19					
13+50.00	19.8	32.1	8.2	39.81	54.63	22.13	+24.31					
14+00.00	19.5	37.1	18.9	36.39	64.07	25.09	+29.37					
14+50.00	17.7	49.1	7.3	34.44	79.81	24.26	+43.58					
15+00.00	15.8	55.4	1.1	31.02	96.76	7.78	+74.47					
15+50.00	15.6	49.2	2.8	29.07	96.85	3.61	+78.71					
15+70.00	14.4	45.6	1.8	11.11	35.11	1.70	+28.14					
ESTIMATED									50.00	50.00	150.00	
NORTH OF BRIDGE SUB-TOTAL				305.5	486.4	367.0	46.4		50.0	50.0	335.3	
1+00.00		5.4	0.3									
1+10.00		11.6	0.1				+3.09	+3.16				
1+17.00		12.2	1.6				+2.85	+3.08				
1+25.00		114.6	0.8				+18.42	+18.78				
1+42.00		189.7	2.4				+94.81	+95.81				
1+59.00		125.4	22.0				+91.54	+99.22				
1+67.00		28.2	41.1				+13.41	+22.75				
1+76.00		9.7	9.1				-2.06	+6.31				
1+86.00		3.8	0.0				+0.81	+2.50				
BETWEEN ABUTMENTS (CHANNEL) SUB-TOTAL				0.0	0.0	0.0	222.9		251.6	0.0	0.0	0.0
SHRINKAGE FACTOR		15%										

EARTHWORK GENERAL NOTES

1. ALL EARTHWORK QUANTITIES ARE CALCULATED BY THE METHOD OF AVERAGE END AREAS USING THE PLAN CROSS SECTIONS.
2. SHRINKAGE FACTOR, ASSUMED TO BE 15% FOR THIS PROJECT IS 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.
3. RECOMMENDATIONS OUTLINED IN THE GEOTECHNICAL REPORT PREPARED BY WANG ENGINEERING, INC., DATED, OCTOBER 6, 2009 WERE USED IN PREPARATION OF THE ROADWAY PLANS AND RELATED QUANTITY CALCULATIONS.
4. SIX (6) INCHES WAS ASSUMED ON THIS PROJECT FOR THE PURPOSE OF CALCULATING TOPSOIL STRIPPING QUANTITIES.
5. IF UNDERCUTS ARE ENCOUNTERED, UNDERCUTS WILL BE PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL. AFTER TOPSOIL STRIPPING AND VEGETATION 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.
6. 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 INCLUDED IN THE COST OF EXCAVATION.
7. A NOMINAL 100 CY OF POROUS GRANULAR EMBANKMENT SUBGRADE HAS BEEN ESTIMATED TO ESTABLISH A UNIT PRICE FOR POSSIBLE LOCATIONS WHERE SOILS TEND TO BE UNSTABLE WHEN WET. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE SOILS ENGINEER (BY USE OF A CONE PENETROMETER IN CONJUNCTION WITH THE IDOT SUBGRADE STABILITY MANUAL AND ROLL USING FULL LOAD SEMI), IF UNSUITABLE AND/OR UNSTABLE MATERIALS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE THE CONTRACTOR.
8. EARTH EXCAVATION SHALL BE PAID FOR ONLY ONCE, REGARDLESS OF STAGING OR SEQUENCING OF CONTRACTORS OPERATIONS THAT REQUIRE STOCKPILING OF MATERIALS FOR LATER USE FOR REDISTRIBUTION AND RESPREADING IN SHOULDERS AND CONSTRUCTING OF EMBANKMENTS.

SUMMARY OF EARTHWORK	TOPSOIL		EARTH WORK		SUBGRADE IMPROVEMENT		
	20201200	20200100	20400800	20300100	20201200	Z0042002	21001000
	REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL (CU YD)	EARTH EXCAVATION (CU YD)	FURNISHED EXCAVATION (CU YD)	CHANNEL EXCAVATION (CU YD)	REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL (CU YD)	POROUS GRANULAR EMBANKMENT SUBGRADE (CU YD)	GEOTECH. FABRIC FOR GROUND STABILIZATION (SQ YD)
TOTAL	553.6	1,207.2	-46.4	251.6	100.0	100.0	660.0
ADJ. TOTAL	555.0	1,210.0	50.0	255.0	100.0	100.0	660.0

- EXCAVATION BETWEEN ABUTMENTS SHALL BE CHANNEL EXCAVATION.
- CHANNEL EXCAVATION HAS BEEN ASSUMED TO BE UNSUITABLE MATERIAL FOR ROADWAY EMBANKMENT.
- A NOMINAL QUANTITY OF 50 CY YD FOR FURNISHED EXCAVATION HAS BEEN PROVIDED.

FILE NAME = W:\Projects\2010\100225_Burke\Drawings\DWG\SCHS\SCHEDULE.dgn



USER NAME = #USER#	DESIGNED - KMA	REVISED -
PLOT SCALE =	DRAWN - NDP	REVISED -
PLOT DATE = 10/19/2011	CHECKED - SBP	REVISED -
	DATE - 10/24/11	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
SCALE:	SHEET NO. 10 OF 76 SHEETS	STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
194	08-14117-00-BR	KANE	76	10
CONTRACT NO. 63645				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				