

# EARTHWORK SCHEDULE

LOCATION	END AREAS			EARTH WORK						SUBGRADE IMPROVEMENT					
	TOPSOIL STRIPPING (TSS)	CUT (C)	FILL (F)	20201200 REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL	TUNNEL EXCAVATION (SEE NOTE 9)	20300100 CHANNEL EXCAVATION	50200100 STRUCTURE EXCAVATION (SEE NOTE 9)	20200100 EARTH EXCAVATION	EMBANKMENT	20400800 BALANCE WASTE (+) or SHORTAGE (-) <FURN. EXC.>	20201200 REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL	20042002 POROUS GRANULAR EMBANKMENT SUBGRADE	21001000 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	50200450 REM/DISP UNS MATL STRUCTURES	Z0028700 GRANULAR SUBGRADE REPLACEMENT
	(SQ FT)	(SQ FT)	(SQ FT)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(SQ YD)	(CU YD)	(CU YD)
MAIN ALIGNMENT															
9+16.80	8.0	2.8	0.1												
9+25.00	8.5	2.3	0.1	2.51				0.77	0.03	+0.62					
9+50.00	12.5	2.5	0.6	9.72				2.22	0.32	+1.57					
9+75.00	15.2	0.8	2.6	12.82				1.53	1.48	-0.18					
10+00.00	10.3	0.0	11.1	11.81				0.37	6.34	-6.03					
10+25.00	17.6	0.0	39.4	12.92				0.00	23.38	-23.38					
10+50.00	19.1	0.0	68.9	16.99				0.00	50.14	-50.14					
10+75.00	17.6	0.0	58.1	16.99				0.00	58.80	-58.80					
11+00.00	18.5	0.0	19.9	16.71				0.00	36.11	-36.11					
12+00.00	17.3	8.5	4.1	66.30				15.74	44.44	-31.06					
12+25.00	18.2	0.0	50.5	16.44				3.94	25.28	-21.93					
12+50.00	27.6	3.7	94.3	21.20				1.71	67.04	-65.59					
12+75.00	27.2	2.8	99.8	25.37				3.01	89.86	-87.30					
13+00.00	27.0	0.0	120.3	25.09				1.30	101.90	-100.80					
13+25.00	22.8	0.1	98.7	23.06				0.05	101.39	-101.35					
13+50.00	23.6	0.6	73.3	21.48				0.32	79.63	-79.36					
13+75.00	21.5	0.2	63.3	20.88				0.37	63.24	-62.93					
14+00.00	21.8	2.6	63.5	19.95				1.30	58.70	-57.60					
14+25.00	25.3	2.6	82.9	21.71				2.41	67.78	-65.73					
14+50.00	22.3	1.3	80.5	22.04				1.81	75.65	-74.11					
14+75.00	22.9	0.4	79.5	20.93				0.79	74.07	-73.40					
15+00.00	24.5	2.3	85.9	21.94				1.25	76.57	-75.51					
15+25.00	20.8	1.1	57.5	20.97				1.57	66.39	-65.06					
15+50.00	17.7	9.9	13.3	17.82				5.09	32.78	-28.45					
15+75.00	0.0	131.2	0.0	8.19				65.32	6.16	+49.36					
15+81.91	0.0	157.3	0.0	0.00				36.92	0.00	+31.38					
TUNNEL					798.20					+678.47					
17+21.91	0.0	158.3	0.0												
17+25.00	0.0	105.2	0.0	0.00				15.08	0.00	+12.82					
17+50.00	12.5	0.0	24.3	5.79				48.70	11.25	+30.15					
17+59.40	24.1	0.0	128.1	6.37				0.00	26.53	-26.53					
17+75.00	18.4	4.9	42.2	12.28				1.42	49.20	-47.99					
18+00.00	16.1	6.9	21.6	15.97				5.46	29.54	-24.90					
18+25.00	15.2	6.9	10.0	14.49				6.39	14.63	-9.20					
18+50.00	14.4	3.5	17.0	13.70				4.81	12.50	-8.41					
18+75.00	15.5	0.3	19.0	13.84				1.76	16.67	-15.17					
19+00.00	0.0	8.9	5.0	7.18				4.26	11.11	-7.49					
19+25.00	0.0	6.2	0.4	0.00				6.99	2.50	+3.44					
END SECTIONS							519.00			+406.30				303.00	303.00
NORTH BRANCH															
9+43.00	8.6	2.7	0.7												
9+50.00	9.6	2.8	0.7	2.36				0.71	0.18	+0.42					
9+75.00	8.3	0.0	1.6	8.29				1.30	1.06	+0.04					
10+00.00	11.0	0.0	18.1	8.94				0.00	9.12	-9.12					
10+25.00	13.9	0.0	34.0	11.53				0.00	24.12	-24.12					
10+50.00	14.3	0.0	61.3	13.06				0.00	44.12	-44.12					
10+75.00	1.1	0.0	22.5	7.13				0.00	38.80	-38.80					
11+00.00				1.02				0.00	20.83	-20.83					
CHANNEL															
1+00.00	0.0	0.0	0.0												
1+25.00	0.0	25.1	1.7			11.63									
1+50.00	0.0	36.1	0.0			28.32									
1+75.00	0.0	50.8	0.0			40.19									
2+00.00	0.0	52.0	0.0			47.56									
2+03.00	0.0	27.6	0.0			4.42									
2+25.00	0.0	15.4	0.0			17.52									
2+47.00	0.0	28.1	0.0			17.71									
2+50.00	0.0	54.5	0.0			4.59									
2+75.00	0.0	38.5	0.0			43.07									
3+00.00	0.0	0.0	0.0												
EST. UNSUIT.											250.00		250.00	750.00	
<b>TOTAL</b>				<b>615.8</b>		<b>215.0</b>	<b>519.0</b>	<b>244.7</b>	<b>1,519.6</b>	<b>-226.9</b>	<b>250.0</b>	<b>250.0</b>	<b>750.0</b>	<b>303.0</b>	<b>303.0</b>
<b>SHRINKAGE FACTOR</b>	<b>15%</b>		<b>ADJ. TOTAL</b>	<b>620.0</b>		<b>215.0</b>	<b>519.0</b>	<b>245.0</b>	<b>1,520.0</b>	<b>230.0</b>					

- 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 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.
  - RECOMMENDATIONS OUTLINED IN THE "REPORT OF SOILS EXPLORATION" PREPARED BY TESTING SERVICE CORP., DATED FEB. 15, 2010 WERE USED IN PREPARATION OF THE ROADWAY PLANS AND RELATED QUANTITY CALCULATIONS.
  - SIX (6) 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 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.
  - 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.
  - A NOMINAL 250 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.
  - 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.
  - FOR EARTHWORK COMPUTATION IT HAS BEEN ASSUMED THAT THE EXCAVATED MATERIALS FROM THE TUNNEL, WINGWALLS AND END SECTIONS WILL BE USED IN THE CONSTRUCTION OF THE BICYCLE PATH EMBANKMENTS ("CONCRETE JACKING PIPE SPECIAL, TUNNELED" AND "STRUCTURE EXCAVATION"). IT HAS BEEN ESTIMATED THAT 41 CU YD OF STRUCTURE EXCAVATION IS TOPSOIL AND THAT AMOUNT HAS BEEN EXCLUDED IN THE EARTHWORK BALANCE COLUMN.
  - SEE SHEET 39 FOR STRUCTURAL UNDERCUT INFORMATION.

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**WILLS BURKE KELSEY ASSOCIATES LTD.**  
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USER NAME = #USER#	DESIGNED - DPB	REVISED -
PLOT SCALE = AS SHOWN	DRAWN - NDP	REVISED -
PLOT DATE = 5/18/2012	CHECKED - DPB	REVISED -
	DATE - 5/14/12	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EARTHWORK SCHEDULE**

SCALE: AS SHOWN    SHEET NO. 8 OF 79 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0336	00-00259-00-BT	KANE	79	8
CONTRACT NO. 63667				
FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				