CROSS SECTION EARTHWORK

LOCATION STA.	TO STA.	EARTH EXCAVATION	REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL (15% OF EARTH EXC.)	TOTAL SUITABLE EARTH EXCAVATION (85% OF EARTH EXCAVATION)	SUTIABLE EARTH EXC. TO BE USED IN EMBANKMENT (25% SHRINKAGE)	EMBANKMENT REQUIRED	EARTHWORK BALANCE SEE NOTE 3	EARTH EXCAVATION (SPECIAL) ARCH-E PITS	TOPSOIL REMOVAL PAID AS REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL
		(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
IL ROUTE 3									
1672+00.00	1672+50.00	75.9	11.4	64.5	48.4	837.5	-789.1	0.0	207.0
1672+50.00	1673+00.00	36.9	5.5	31.3	23.5	2,994.9	-2,971.4	0.0	206.5
1673+00.00	1673+50.00	20.9	3.1	17.8	13.3	5,005.3	-4,992.0	0.0	210.1
1673+50.00	1674+00.00	12.1	1.8	10.3	7.7	5,648.3	-5,640.6	0.0	216.1
1674+00.00	1674+50.00	7.7	1.2	6.6	4.9	5,960.0	-5,955.1	0.0	222.2
1674+50.00	1675+00.00	43.1	6.5	36.6	27.4	6,214.4	-6,187.0	0.0	237.8
1675+00.00	1675+50.00	178.0	26.7	151.3	113.5	6,756.7	-6,643.2	0.0	255.1
1675+50.00	1676+00.00	283.7	42.6	241.2	180.9	7,287.9	-7,107.0	0.0	262.6
1676+00.00	1676+50.00	326.3	48.9	277.3	208.0	7,563.7	-7,355.6	0.0	258.9
1676+50.00	1676+88.00	367.3	55.1	312.2	234.1	5,911.1	-5,677.0	0.0	193.9
1676+88.00	END	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	SUBTOTAL	1,351.8	202.8	1,149.1	861.8	54,179.8	-53,318.0	0.0	2,270.3
IL ROUTE 3									
1684+69.18	1685+00.00	23.7	3.6	20.1	15.1	3,674.4	-3,659.3	0.0	124.6
1685+00.00	1685+50.00	276.3	41.4	234.8	176.1	5,939.0	-5,762.9	0.0	251.1
1685+50.00	1686+00.00	501.6	75.2	426.4	319.8	5,532.0	-5,212.3	0.0	259.8
1686+00.00	1686+50.00	512.7	76.9	435.8	326.8	4,740.8	-4,414.0	0.0	247.8
1686+50.00	1687+00.00	548.7	82.3	466.4	349.8	4,019.0	-3,669.2	0.0	237.0
1687+00.00	1687+50.00	565.6	84.8	480.7	360.6	3,378.9	-3,018.3	0.0	227.9
1687+50.00	1688+00.00	556.6	83.5	473.1	354.9	2,776.3	-2,421.4	0.0	217.4
1688+00.00	1688+50.00	562.9	84.4	478.5	358.9	2,185.5	-1,826.6	0.0	204.6
1688+50.00	1689+00.00	534.2	80.1	454.1	340.5	1,655.7	-1,315.2	0.0	191.5
1689+00.00	1689+50.00	262.1	39.3	222.8	167.1	705.8	-538.6	0.0	92.8
1689+50.00	END	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	SUBTOTAL	4,344.4	651.7	3,692.8	2,769.6	34,607.3	-31,837.7	0.0	2,054.4
RAMP A									
17+25.00	17+50.00	9.6	1.4	8.2	6.1	118.5	-112.4	0.0	33.3
17+50.00	18+00.00	52.1	7.8	44.3	33.2	306.3	-273.0	0.0	67.3
18+00.00	18+50.00	59.8	9.0	50.8	38.1	387.8	-349.7	0.0	70.8
18+50.00	19+00.00	53.5	8.0	45.5	34.1	478.9	-444.8	0.0	67.0
19+00.00	19+50.00	64.8	9.7	55.1	41.3	610.8	-569.5	0.0	64.7
19+50.00	20+00.00	56.8	8.5	48.3	36.2	768.8	-732.6	0.0	65.9
20+00.00	20+50.00	24.5	3.7	20.8	15.6	952.0	-936.3	0.0	67.2
20+50.00	21+00.00	8.6	1.3	7.3	5.5	1,187.9	-1,182.5	0.0	69.4
21+00.00	21+50.00	7.0	1.0	5.9	4.5	1,382.2	-1,377.8	0.0	72.3
21+50.00	22+00.00	10.3	1.5	8.7	6.5	1,603.1	-1,596.5	0.0	77.9
22+00.00	22+50.00	12.1	1.8	10.3	7.7	2,022.9	-2,015.2	0.0	85.5
22+50.00	23+00.00	9.8	1.5	8.3	6.3	2,690.2	-2,683.9	0.0	95.5
23+00.00	23+50.00	9.1	1.4	7.7	5.8	3,462.5	-3,456.6	0.0	110.4
23+50.00	24+00.00	12.2	1.8	10.3	7.8	4,195.2	-4,187.5	0.0	126.6
24+00.00	END	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	SUBTOTAL	390.1	58.5	331.6	248.7	20,167.0	-19,918.3	0.0	1,073.8

CROSS SECTION EARTHWORK

LOCATION STA.	TO STA.	EARTH EXCAVATION	REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL (15% OF EARTH EXC.)	TOTAL SUITABLE EARTH EXCAVATION (85% OF EARTH EXCAVATION)	SUTIABLE EARTH EXC. TO BE USED IN EMBANKMENT (25% SHRINKAGE)	EMBANKMENT REQUIRED	EARTHWORK BALANCE SEE NOTE 3	EARTH EXCAVATION (SPECIAL) ARCH-E PITS	TOPSOIL REMOVAL PAID AS REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL
		(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
RAMP B									
51+00.00	51+50.00	51.9	7.8	44.2	33.1	5,534.1	-5,501.0	0.0	179.9
51+50.00	52+00.00	59.8	9.0	50.8	38.1	4,118.8	-4,080.7	0.0	164.5
52+00.00	52+50.00	91.6	13.7	77.9	58.4	3,486.1	-3,427.7	0.0	155.6
52+50.00	53+00.00	195.6	29.3	166.2	124.7	2,795.7	-2,671.0	0.0	152.9
53+00.00	53+50.00	316.4	47.5	268.9	201.7	2,182.5	-1,980.9	0.0	151.2
53+50.00	54+00.00	180.3	27.0	153.2	114.9	2,059.6	-1,944.7	0.0	151.4
54+00.00	54+50.00	0.1	0.0	0.1	0.0	1,988.0	-1,987.9	0.0	132.3
54+50.00	55+00.00	0.0	0.0	0.0	0.0	1,625.6	-1,625.6	0.0	108.3
55+00.00	55+50.00	0.0	0.0	0.0	0.0	1,380.3	-1,380.3	0.0	108.0
55+50.00	56+00.00	0.0	0.0	0.0	0.0	1,173.7	-1,173.7	0.0	107.1
56+00.00	56+50.00	0.0	0.0	0.0	0.0	933.8	-933.8	0.0	99.2
56+50.00	57+00.00	0.0	0.0	0.0	0.0	747.0	-747.0	0.0	92.6
57+00.00	57+50.00	0.0	0.0	0.0	0.0	609.2	-609.2	0.0	88.5
57+50.00	58+00.00	0.0	0.0	0.0	0.0	484.7	-484.7	0.0	81.5
58+00.00	58+14.00	0.7	0.1	0.6	0.4	111.2	-110.8	0.0	22.8
58+14.00	END	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	SUBTOTAL	896.3	134.4	761.9	571.4	29,230.3	-28,658.9	0.0	1,795.7
INTERSECTION *		267	40	227	170	26,190	-26,019.8	0	728
SLOPE WALLS **		334	50	284	213	13,038	-12,825.2	0	564
TRENCH BACKFILL		0	0	0	0	-906	906	0	0
NON-SPECIAL WASTE		0	0	0	-2,000	0	-2,000	0	0
	TOTALS	7,583.7	1,137.6	6,446.1	2,834.6	176,506.4	-173,671.8	5,000.0	8,486.1

PAID FOR AS: EARTH EXCAVATION OR REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL OR NON-SPECIAL WASTE DISPOSAL

FURNISHED EXCAVATION TOTAL

7,583.7	-	1,137.6	-	2,000	=	4,446.1	EARTH EXCAVATION TOTAL
		1,137.6	+	8,486.1	=	9,623.6	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL TOTAL

NOTES:

1. EARTH EXCAVATION, STOCKPILE (IF REQUIRED) AND SUBSEQUENT PLACEMENT (WHEN APPLICABLE) SHALL ONLY BE MEASURED AND PAID FOR ONCE, AND NOT FOR EACH TRANSPORT. EARTH EXCAVATION WILL NOT BE STOCKPILED UNLESS APPROVED BY THE ENGINEER. ALL STOCKPILES MUST BE REMOVED BY THE END OF PROJECT CONSTRUCTION.

2. SUITABLE EARTH EXCAVATION SHALL REMAIN ON SITE WITHIN THE PROJECT LIMITS AND BE PLACED AT THE DIRECTION OF THE ENGINEER.

3. (-) INDICATES SHORTAGE. FURNISHED EXCAVATION OR EARTH EXCAVATION IS REQUIRED.
(+) INDICATES SURPLUS. EARTH EXCAVATION TO BE USED ELSEWHERE WITHIN THE PROJECT LIMITS.

4. ALL EARTHWORK CALCULATIONS ASSUME THAT CONTRACT 76C41 (MAINLINE I-70 GRADING) HAS FINISHED GRADING IN THE AREA OF RAMP A, RAMP B, AND THE RELOCATED IL ROUTE 3 ABUTMENTS. IF THIS WORK HAS NOT BEEN COMPLETED, ADDITIONAL EARTHWORK MAY BE REQUIRED.

* 5. INTERSECTION EARTHWORK IS BETWEEN STA. 24+00 (RAMP A) AND 51+00 (RAMP B).

** 6. SLOPE WALL EMBANKMENT INCLUDES THE SOUTH ABUTMENT FOR STR. 082-0329, AND THE NORTH ABUTMENT FOR STR. 082-0328.