

SUMMARY OF EARTHWORK						
LOCATION	1	2	3	4	5	6
	THEORETICAL		ADJUSTED	EXCESS	CUMMULATIVE	FURNISHED EXCAVATION
	CUT (BANK)	FILL (COMPACTED)	FILL * 1.25 (BANK)	(BORROW)	EXCESS (BORROW)	
	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
PRE-STAGE I (MASON COUNTY)						
STA 864+50 TO STA 867+50	47	0	0	47	47	(39)
SUBTOTAL PRE-STAGE I	47	0	0	47	47	(39)
STAGE I (MASON COUNTY)						
STA 853+00 TO STA 869+20	2090	2686	3277	(1187)	(1187)	972
STA 869+20 TO STA 874+00	615	7448	9087	(8472)	(9658)	6944
SUBTOTAL STAGE I (WOLF LAKE)	2705	10134	12363	(9658)	(9658)	7916
STAGE II (MASON COUNTY)						
STA 853+00 TO STA 869+20	680	4144	5056	(4376)	(4376)	3586
STA 869+20 TO STA 874+00	25	2377	2900	(2875)	(7251)	2357
SUBTOTAL STAGE II (WOLF LAKE)	705	6521	7956	(7251)	(7251)	5943
STAGE I/II (MASON COUNTY)						
STA 874+00 TO STA 885+00	2513	24130	29439	(26926)	(26926)	22069
STA 885+00 TO STA 901+00	4720	53017	64681	(59961)	(86886)	49147
STA 901+00 TO STA 907+00	18464.8	18706.5	22822	(4357)	(91243)	3565
SUBTOTAL STAGE I/II (MASON CO.)	25698	95854	116941	(91243)	(91243)	74781
STAGE I/II (CASS COUNTY)						
STA 907+00 TO STA 918+00	7110.2	526.9	643	6467	6467	(5303)
STA 918+00 TO STA 937+50	6744	65775	80246	(73502)	(67034)	60245
STA 937+50 TO STA 948+00	963	20175	24614	(23651)	(90685)	19385
STA 948+00 TO STA 955+00	771	746	910	(139)	(90824)	114
SUBTOTAL STAGE I/II (CASS CO.)	15588	87223	106412	(90824)		74441
STAGE III (MASON COUNTY)						
STA 867+50 TO STA 878+50	356	453	553	(197)	(197)	161
STA 878+50 TO STA 892+00	1844	370	451	1393	1196	(1142)
STA 892+00 TO STA 905+50	9013	8530	10407	(1394)	(198)	1139
STA 905+50 TO STA 907+00	4192.6	0	0	4193	3995	(3438)
SUBTOTAL STAGE III (MASON CO.)	15406	9353	11411	3995	3995	(3280)
STAGE III (CASS COUNTY)						
STA 907+00 TO STA 923+00	15981	159	194	15787	15787	(12945)
STA 923+00 TO STA 939+50	6578	9810	11968	(5390)	10396	4416
STA 939+50 TO STA 950+50	1814	2324	2835	(1021)	9375	837
STA 950+50 TO STA 955+00	2	323	394	(392)	8983	321
SUBTOTAL STAGE III (CASS CO.)	24375	12616	15392	8983	8983	(7371)
NORTH BANK (CASS COUNTY)						
STA 16+50 TO STA 20+50	11977	1	1	11976	11976	(9820)
SUBTOTAL NORTH BANK (CASS CO.)	11977	1	1	11976	11976	(9820)
NORTH BANK (MASON COUNTY)						
STA 20+50 TO STA 25+00	4991	108	132	4860	4860	(3985)
SUBTOTAL NORTH BANK (MASON CO.)	4991	108	132	4860	4860	(3985)
SOUTH BANK (CASS COUNTY)						
STA 25+00 TO STA 35+00	2589	64	78	2511	2511	(2059)
SUBTOTAL SOUTH BANK (CASS CO.)	2589	64	78	2511	2511	(2059)
EARTHWORK TOTALS						
SUBTOTAL FOR MASON COUNTY	49,552	121,970	148,803	(99,251)		88,602
SUBTOTAL FOR CASS COUNTY	54,529	99,904	121,883	(67,354)		74,441
EARTHWORK TOTALS	104,081	221,873	270,686	(166,605)		163,042

NOTE: NORTH BANK AND SOUTH BANK EARTH EXCAVATION PAID FOR AS CHANNEL EXCAVATION.

NOTE: STAGE III, N. BANK, AND S. BANK EXCESS IS NOT USED IN COMPUTING REQUIRED FURNISHED EXCAVATION. THE EXCESS WILL BE CONSIDERED WASTE.

PIPE DRAIN SCHEDULE			
LOCATION (STATION)	OFFSET	12" CORRUGATED STEEL	12" METAL END SECTION
		FT	EACH
922+70	Varies Rt.	11	1
TOTALS		11	1

ESTIMATED QUANTITIES FOR FIELD TILE REPLACEMENT			
APPROX. LOCATION	EXPLORATION TRENCH, 52" DEPTH	PIPE DRAINS	MISCELLANEOUS CONCRETE
	FOOT	FOOT	CU YD
SUBTOTAL MASON COUNTY	600.00	600	25
SUBTOTAL CASS COUNTY	600.00	600	25
TOTAL	1200	1200	50

BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE) SCHEDULE		
LOCATION STA TO STA	WIDTH	BR APPR PVT CONN (FLEX)
	FT	SQ. YD
STA 864+36.50 TO STA 864+42.50	36	24
SUBTOTAL MASON COUNTY		24
TOTAL		24

TEMPORARY CONCRETE BARRIER SCHEDULE		
LOCATION	TEMP CONC BARRIER	TEMP CONC BARRIER, RELOCATE
	FT	FT
STAGE I WOLF LAKE		
STA 858+00 TO STA 866+00	800	
STAGE II WOLF LAKE		
STA 858+00 TO STA 866+00		800
STAGE II BIG LAKE OVERFLOW		
STA 929+01.5 TO STA 936+89.0	787.5	
TOTALS	1587.5	800

EARTHWORK NOTES:
A MASS DIAGRAM FOR THE EARTHWORK IS NOT INCLUDED IN THESE PLANS AND WILL NOT BE AVAILABLE TO THE CONTRACTOR. 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 5" 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 GIVEN.

THE QUANTITIES SHOWN IN THE SCHEDULE INCLUDES ALL MAINLINE, SIDEROAD, AND ENTRANCE QUANTITIES IN EACH SPECIFIED AREA.

A SHRINKAGE OF 18% WAS USED TO DETERMINE THE EXCESS AND BORROW QUANTITIES.
SHRINKAGE FACTOR = 1.00/(1.00-0.18) = 1.0/0.82 = 1.22

COLUMN 3 = COLUMN 2 X 1.22 (SHRINKAGE FACTOR)
COLUMN 4 = COLUMN 1 - COLUMN 3
COLUMN 6 = COLUMN 2 - (COLUMN 1 * 0.82)

PAY ITEM SUMMARY	CHANNEL EXCAVATION (CY)	EARTH EXCAVATION (CY)	FURNISHED EXCAVATION (CY)
MASON COUNTY	4,991	44,560	88,602
CASS COUNTY	14,566	39,963	74,441
TOTAL	19,557	84,523	163,042

EARTHWORK QUANTITIES:
CHANNEL EXCAVATION = COLUMN 1 (IN N. BANK & IN S. BANK ONLY) = 19,557 CY
EARTH EXCAVATION = COLUMN 1- CHANNEL EXCAVATION = 84,523 CY
FURNISHED EXCAVATION = COLUMN 6 = 163,042 CY

SLOPEWALL REMOVAL SCHEDULE	
APPROX. LOCATION	SLOPEWALL TO BE REMOVED
	SQ YD
LT STA 898+00 to STA 904+00	800
SUBTOTAL MASON COUNTY	800
LT STA 917+20 TO STA 929+90	1693
RT STA 917+20 TO STA 930+00	1707
SUBTOTAL CASS COUNTY	3400
TOTAL	4200

TRENCH BACKFILL SCHEDULE		
APPROX. LOCATION	PIPE DIAMETER	TRENCH BACKFILL
	IN	CU YD
IL 78		
884+50	15	8.11
892+00	15	8.11
SUBTOTAL MASON COUNTY		16.22
927+00	15	8.11
939+00	15	8.11
SUBTOTAL CASS COUNTY		16.22
SUBTOTAL IL 78		32.44
898+60	15	8.11
899+00	15	8.11
902+00	15	8.11
SUBTOTAL - BOAT RAMP ACCESS		24.33
TOTAL		57

BRIDGE APPROACH PAVEMENT SCHEDULE		
LOCATION STA TO STA	WIDTH	BR APPR PVT
	FT	SQ. YD
STA 864+06.50 TO STA 864+36.5	36	120
STA 903+86.55 TO STA 904+16.88	36	120
SUBTOTAL MASON COUNTY		240
STA 922+35.45 TO STA 922+65.45	36	120
SUBTOTAL CASS COUNTY		120
TOTAL		360

BRIDGE APPROACH PAVEMENT (SPECIAL) SCHEDULE		
LOCATION STA TO STA	WIDTH	BR APPR PVT (SPECIAL)
	FT	SQ. YD
STA 860+46.00 TO STA 860+76.00	36	120
SUBTOTAL MASON COUNTY		120
TOTAL		120

FILE NAME =	USER NAME = laughlinr1	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULE OF QUANTITIES	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
e:\pwork\PWD0T\LAUGHLINRL\d0134498\st5Schd.dgn		DRAWN -	REVISED -			614	144(B-1, B-2)	CASS, MASON	351	8
	PLOT SCALE = 100.0000 ' / IN.	CHECKED -	REVISED -			CONTRACT NO. 72A76				
	PLOT DATE = Mar-31-2009 07:48:16AM	DATE -	REVISED -			SCALE:	SHEET NO. 1 OF 5 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.