

**CONTRACTION AND/OR EXPANSION JOINTS**

ALTHOUGH SPECIFIC LOCATIONS OF CERTAIN CONTRACTION AND EXPANSION JOINTS HAVE BEEN DETAILED ON THIS PLAN, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. PROVISIONS OF EXPANSION JOINTS AT ALL MAJOR STRUCTURES AND THE MAXIMUM SPACING BETWEEN CONTRACTION JOINTS SHALL, IN ALL CASES, BE IN ACCORDANCE WITH STANDARD CONSTRUCTION DRAWING BP-2.2 AND THE SPECIFICATIONS.

**CONTRACTION JOINTS IN CONCRETE PAVEMENT OR BASE WIDENING**

CONTRACTION JOINTS SHALL BE CONSTRUCTED AS PER STANDARD CONSTRUCTION DRAWING BP-2.2, EXCEPT THAT THE SPACING SHALL BE 14 FOOT MAXIMUM.

**ADDITIONAL SOIL INFORMATION**

THE SOIL BORING LOGS ARE SHOWN ON SHEETS 73 THROUGH 101 AND CONTAIN ALL AVAILABLE SOIL AND BEDROCK INFORMATION WHICH CAN BE CONVENIENTLY SHOWN. ADDITIONAL INFORMATION MAY ALSO BE AVAILABLE FROM THE FOLLOWING:

- 1) SUBSURFACE INVESTIGATION REPORT(S) PREPARED FOR THE PROJECT.
- 2) ADDITIONAL SUBSURFACE INVESTIGATIONS MADE TO STUDY SOME ASPECT OF THE PROJECT.
- 3) SOIL PROFILE AND/OR STRUCTURE FOUNDATION INVESTIGATION SHEETS FROM THE CONSTRUCTION PLANS FOR THE EXISTING FACILITY AND/OR STRUCTURES.

ADDITIONAL INFORMATION, IF ANY, MAY BE EXAMINED BY PROSPECTIVE BIDDERS AT THE OHIO TURNPIKE OFFICE, 682 PROSPECT STREET, BEREA, OHIO 44017.

**ITEM SP604 - CATCH BASIN, TYPE CB-1**

EXISTING TOP OF GRATE ELEVATIONS AND INVERT ELEVATIONS FOR ALL STORM STRUCTURES SHALL BE FIELD MEASURED AND RECORDED BY THE CONTRACTOR PRIOR TO REMOVAL OF THE STRUCTURES. PROPOSED CATCH BASINS SHALL BE INSTALLED AT THE SAME TOP OF GRATE AND INVERT ELEVATIONS AS EXISTING. PROPOSED DRAINAGE PIPES SHALL BE CONNECTED TO EXISTING PIPES USING MASONRY COLLAR AS PER STANDARD DRAWING DM-1.1. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED WITH ITEM SP604 - CATCH BASIN, TYPE CB-1.

**CONSTRUCTION SEQUENCE**

PART A OF THIS PROJECT SHALL START PRIOR TO ANY MAINTENANCE OF TRAFFIC SETUP FOR PART B. CONSTRUCTION FOR PART B SHALL NOT BEGIN UNTIL ALL MAINTENANCE WORK FOR PART A IS COMPLETE.

**SEEDING & MULCHING**

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

659, SOIL ANALYSIS TEST	2 EACH
659, TOPSOIL	3,288 CU. YD.
659, SEEDING AND MULCHING	29,613 SQ. YD.
659, REPAIR SEEDING AND MULCHING	1,481 SQ. YD.
659, INTER-SEEDING	1,481 SQ. YD.
659, COMMERCIAL FERTILIZER	4.0 TON
659, LIME	6.1 ACRES
659, WATER	160 M. GAL.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON AN ASSUMED LIMIT 10' BEYOND THE SHOULDER.

**PAVEMENT REPAIRS**

THE FOLLOWING QUANTITIES, ARE INCLUDED AS A CONTINGENCY, TO BE USED AS DIRECTED BY THE CHIEF ENGINEER FOR PAVEMENT REPAIR MEASURES TO MAINTAIN TRAFFIC. **CONTRACTOR SHALL FOLLOW ODOT CMS FOR ITEM 255, EXCEPT THAT PLACEMENT OF THE DOWEL BARS ARE NOT REQUIRED AND CONCRETE SHALL BE CLASS FS.**

ITEM 251, PARTIAL DEPTH PAVEMENT REPAIR	500 SQ. YD.
ITEM 255, FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT	500 SQ. YD.
<b>ITEM 255, FULL DEPTH PAVEMENT SAWING</b>	<b>200 FT.</b>

**COATED DOWEL BARS**

DOWEL BARS REQUIRED ON STANDARD DRAWING BP-2.2 SHALL BE COATED IN ACCORDANCE WITH 709.13.

**ITEM 622 - CONCRETE BARRIER, TYPE B-50, AS PER PLAN**

THIS ITEM SHALL BE IN ACCORDANCE WITH OTC STANDARD DRAWING CBR-3 AND SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIAL AND INCIDENTALS TO COMPLETE THIS ITEM.

**ITEM SPECIAL - ROLLER COMPACTED CONCRETE (T-9")**

THIS ITEM SHALL COMPLY WITH OTC SPECIFICATION FOR ROLLER COMPACTED CONCRETE AND SHALL INCLUDE ALL EQUIPMENT, MATERIAL, LABOR AND OTHER INCIDENTALS NECESSARY TO COMPLETE THIS ITEM OF WORK. SAW CUT JOINTS SHALL BE INSTALLED TO MATCH ADJACENT JOINTS IN ITEM 452.

**PROJECT BASELINE**

THE CONTRACTOR SHALL ESTABLISH THE PROJECT BASELINE IN THE FIELD AND USE THIS BASELINE FOR CONSTRUCTION LAYOUT. THE LOCATION OF THE BASELINE SHALL BE AT THE RIGHT EDGE OF THE THIRD LANE BASE PAVEMENT JOINT OF THE EASTBOUND LANES. THE CONTRACTOR SHALL USE POTHOLES AT EVERY 500 FEET ON TANGENTS AND EVERY 100 FEET ON CURVES, OR USE OTHER METHODS AS APPROVED BY THE CHIEF ENGINEER, TO FIND AND VERIFY THE LOCATION OF THIS JOINT.

**ITEM SPECIAL - PRESSURE RELIEF JOINT, TYPE A**

THIS ITEM OF WORK SHALL CONSIST OF INSTALLING PRESSURE RELIEF JOINT, TYPE A, AT EACH APPROACH TO EACH MAINLINE BRIDGE ACROSS THE NEW PAVEMENT AND OUTSIDE SHOULDER IN ACCORDANCE WITH THE DETAIL SHOWN ON OHIO DEPARTMENT OF TRANSPORTATION STANDARD DRAWING BP-2.3 (07-16-04).

PRESSURE RELIEF JOINT LOCATIONS WILL BE FIELD LOCATED BY THE CHIEF ENGINEER. APPROXIMATE LOCATIONS FOR WESTBOUND LANES ARE AS FOLLOWS: STA. 758+92, STA. 761+62, STA. 788+42, STA. 790+17, STA. 803+64, STA. 805+88, STA. 846+80, STA. 849+19, STA. 898+44, STA. 901+11, STA. 913+62, STA. 915+22, STA. 940+56, STA. 944+08.

THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY:

ITEM SPECIAL - PRESSURE RELIEF JOINT, TYPE A	765 FT.
ITEM SP 605 - 6" SHALLOW PIPE UNDERDRAIN WITH FABRIC WRAP	765 FT.
ITEM 603 - 6" CONDUIT TYPE F, NON-PERFORATED ASTM 3034 SDR 35, SS931 OR SS944	170 FT.

**ITEM SPECIAL - SAW CUT JOINT**

THIS ITEM SHALL CONSIST OF SAW CUTTING WITH A DIAMOND BLADE AT JOINTS WHERE EXISTING ASPHALT AND PROPOSED ASPHALT MEET. THE LOCATION AND DEPTH SHALL BE AS SPECIFIED IN THE PLANS AND/OR AS DIRECTED BY THE CHIEF ENGINEER. PAYMENT FOR THIS ITEM WILL BE AT UNIT BID PRICE PER LINEAR FOOT FOR ITEM SPECIAL - SAW CUT JOINT AND SHALL INCLUDE ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THIS ITEM. THE FOLLOWING QUANTITY IS PROVIDED IN THE GENERAL SUMMARY:

ITEM SPECIAL - SAW CUT JOINT	26,900 FT.
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ALL MAINTENANCE OF TRAFFIC NECESSARY TO COMPLETE THIS ITEM SHALL BE CONSIDERED INCIDENTAL TO ITEM SP 614 - MAINTAINING TRAFFIC.

**ITEM 605 - AGGREGATE DRAIN, AS PER PLAN**

THE ENTIRE OUTSIDE PERIMETER OF THE AGGREGATE DRAIN SHALL BE WRAPPED WITH FILTER FABRIC, TYPE A, AS PER ODOT SPECIFICATION 712.09 PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR ITEM 605 AGGREGATE DRAIN, AS PER PLAN.

**ITEM 206 - CHEMICALLY STABILIZED SUBGRADE, AS PER PLAN**

THIS WORK SHALL COMPLY WITH ALL REQUIREMENTS SPECIFIED IN ITEM 206 - CHEMICALLY STABILIZED SUBGRADE OF ODOT 2010 CMS EXCEPT AS NOTED BELOW:

ITEM 206.02 MATERIALS: CURING COAT SUBMITTAL NOT REQUIRED

ITEM 206.03 SUBMITTALS: MIXTURE DESIGN FOR CHEMICALLY STABILIZED SOILS IS NOT REQUIRED BY THE CONTRACTOR.

**ITEM 206.05 CONSTRUCTION:**

A. SPREADING - USE AN APPLICATION RATE OF 5% QUICKLIME BY DRY UNIT WEIGHT. THE APPLICATION RATE WILL VARY DEPENDING ON THE IN-SITU DRY UNIT WEIGHT OF THE SOIL. QUANTITY OF PORTLAND LIME IS BASED ON A IN-SITU DRY UNIT WEIGHT OF 105 LBS/FT<sup>3</sup>.

D. CURING - THE TREATED AREA SHOULD BE SHAPED TO THE REQUIRED LINES, GRADES AND CROSS SECTIONS AND FINAL COMPACTION, BY WAY OF SMOOTH DRUM ROLLER WEIGHING AT LEAST 10 TONS, SHOULD CONTINUE UNTIL UNIFORM AND ADEQUATE COMPACTION IS OBTAINED. THE CONTRACTOR SHALL MAINTAIN THE SURFACE OF THE LIME STABILIZED SOIL SUBGRADE IN A MOIST CONDITION DURING THE CURING PERIOD. FINISHED PORTIONS OF THE STABILIZED SUBGRADE THAT ARE TRAVELED ON BY EQUIPMENT USED IN CONSTRUCTING AN ADJOINING SECTION SHALL BE PROTECTED IN SUCH A MANNER AS TO PREVENT EQUIPMENT FROM MARRING OR DAMAGING COMPLETED WORK. DURING THE CURING PERIOD, NO TRAFFIC SHALL BE PERMITTED ON THE COMPLETED WORK BEYOND THAT REQUIRED FOR MAINTAINING MOIST CONDITIONS. THE LENGTH OF THE CURING PERIOD WILL DEPEND ON THE ACCEPTANCE OF THE LIME STABILIZED SOIL SUBGRADE. THE ACCEPTANCE OF THE LIME STABILIZED SOIL SUBGRADE WILL BE EVALUATED AFTER 72 HOURS OF CURING. DEPENDING ON THE ACCEPTANCE OF THE LIME STABILIZED SOIL SUBGRADE, ADDITIONAL CURING MAY BE REQUIRED. SUFFICIENT PROTECTION FROM FREEZING SHALL BE GIVEN THE CHEMICALLY STABILIZED MATERIAL FOR 7 DAYS AFTER ITS CONSTRUCTION OR AS APPROVED BY THE CHIEF ENGINEER.

E. PROOF ROLLING - ACCEPTANCE TESTING OF THE LIME STABILIZED SOIL SUBGRADE WILL BE PERFORMED AFTER 72 HOURS OF CURING. AN AUTOMATIC DYNAMIC CONE PENETROMETER (ADCP) WILL BE USED AS THE INITIAL ACCEPTANCE TEST FOR THE LIME STABILIZED SOIL SUBGRADE. THE ADCP WILL MEASURE THE PENETRATION RATE (PR) IN MM/BLOW FOR THE LIME STABILIZED SOIL SUBGRADE THROUGH THE TREATMENT DEPTH. THE MAXIMUM PENETRATION RATE THROUGHOUT THE CEMENT STABILIZED SOIL SUBGRADE MUST AVERAGE 8.0 MM/BLOW. TESTS WILL BE PERFORMED EVERY 200 LINEAR FEET OF ROADWAY. IF THE AVERAGE PR OF THE LIME STABILIZED SOIL SUBGRADE IS BELOW 8.0 MM/BLOW, THEN THE CONTRACTOR CAN PROCEED WITH CONSTRUCTION OF THE PAVEMENT STRUCTURE.

IF THE AVERAGE PR OF THE LIME STABILIZED SOIL SUBGRADE IS ABOVE 8.0 MM/BLOW, THEN THE LIME STABILIZED SOIL SUBGRADE MUST CONTINUE TO CURE FOR TWO ADDITIONAL DAYS AND THEN BE PROOF ROLLED IN ACCORDANCE WITH ODOT ITEM 204.

LOCATION	BEGIN STATION	END STATION	STABILIZATION DEPTH (INCHES)	LENGTH	WIDTH	TREATMENT AREA	TREATMENT AREA	QUICKLIME APPLICATION RATE	TOTAL WEIGHT OF QUICKLIME	TOTAL WEIGHT OF QUICKLIME
				FT.	FT.	S.F.	S.Y.	LBS./S.Y.	LBS.	TONS
MAINLINE	740+00	750+00	16	1,000	26	26,000	2,889	66	190,667	95
	750+50	788+50	12	3,800	26	98,800	10,978	49	537,911	269
	790+00	899+00	16	10,900	26	283,400	31,489	66	2,078,267	1,039
	901+50	913+50	16	1,200	26	31,200	3,467	66	228,800	114
	914+50	941+00	16	2,650	26	68,900	7,656	66	505,267	253
	944+50	969+50	12	2,500	26	65,000	7,222	49	353,889	177
SHOULDER	740+00	750+00	16	1,000	10	10,000	1,111	40	44,444	22
	750+50	788+50	12	3,800	10	38,000	4,222	40	168,889	84
	790+00	899+00	16	10,900	10	109,000	12,111	40	484,444	242
	901+50	913+50	16	1,200	10	12,000	1,333	40	53,333	27
	914+50	941+00	16	2,650	10	26,500	2,944	40	117,778	59
	944+50	969+50	12	2,500	10	25,000	2,778	40	111,111	56
TOTALS							109,400		6,120,889	3,060

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK UNDER ITEM 206 - CHEMICALLY STABILIZED SUBGRADE, AS PER PLAN:

206 - LIME STABILIZED SUBGRADE, 12 INCHES DEEP, AS PER PLAN	48,589 SQ. YD.
206 - LIME STABILIZED SUBGRADE, 16 INCHES DEEP, AS PER PLAN	60,811 SQ. YD.
206 - LIME	3,060 TON
206 - WATER FOR CURING	1.4 M GAL
206 - TEST ROLLING	37 HOURS

**ITEM SP626 - RAISED PAVEMENT MARKER**

THIS ITEM SHALL BE INSTALLED IN ACCORDANCE WITH SP626 WITH THE FOLLOWING CHANGES IN SPACING: 120' FOR ALL TANGENT SECTIONS AND 80' FOR ALL CURVES.

**ITEM SPECIAL - ASPHALT PAVEMENT REINFORCEMENT**

THIS ITEM SHALL INCLUDE FURNISHING AND PLACING AN ASPHALT PAVEMENT REINFORCEMENT GRID AT THE LOCATIONS AS SHOWN ON THE PLANS. THE ASPHALT PAVEMENT REINFORCEMENT GRID SHALL BE "GLASGRID - 8502" AS MANUFACTURED BY SAINT-GOBAIN TECHNICAL FABRICS OR APPROVED EQUAL. THE ASPHALT PAVEMENT REINFORCEMENT GRID SHALL BE INSTALLED AS PER THE RECOMMENDATIONS OF THE MANUFACTURER. THE UNIT PRICE BID PER SQUARE YARD FOR ITEM SPECIAL - ASPHALT PAVEMENT REINFORCEMENT SHALL BE FULL COMPENSATION FOR ALL LABOR, MATERIALS, AND OTHER INCIDENTALS NECESSARY TO COMPLETE THIS ITEM OF WORK.

**ITEM 452 - NON-REINFORCED CONCRETE PAVEMENT (T=13")**

WHEN THIS ITEM IS TO BE OVERLAID WITH ASPHALT, COMPOUNDS FOR CURING CONCRETE AS DESCRIBED IN 705.07 SHALL NOT BE USED EXCEPT THAT CURING COMPOUNDS SHALL MEET THE REQUIREMENTS OF ASTM C309 AND SHALL BE COMPATIBLE WITH SP407 TACK COAT. CURING SHALL BE IN ACCORDANCE WITH ALTERNATE METHODS SPECIFIED IN ODOT SPECIFICATION 451.10 AND SUPPLEMENTED WITH SPECIFICATION 305.02. CONTRACTOR MAY USE OTHER WATER BASED CURING COMPOUNDS AS AN ALTERNATIVE METHOD WHICH RESULT IN A SURFACE THAT PREVENTS DE BONDING BETWEEN CONCRETE BASE AND ASPHALT OVERLAY. THE SPECIFICATIONS FOR ALTERNATIVE CURING COMPOUNDS SHALL BE SUBMITTED TO THE CHIEF ENGINEER FOR REVIEW AND APPROVAL PRIOR TO ANY APPLICATION OR PURCHASE.

**ITEM 642 - PERMANENT PAVEMENT MARKINGS**

PERMANENT PAVEMENT MARKING LOCATIONS SHALL BE DETERMINED BY REFERENCING THE BASE PAVEMENT JOINTS, AS SHOWN ON OTC STANDARD DRAWING RPM-1.


**SLOPE DRAINS**

THE FOLLOWING QUANTITIES, ARE INCLUDED AS CONTINGENCY, TO BE USED AS DIRECTED BY THE CHIEF ENGINEER TO REPLACE ANY DAMAGED, RUSTED, OR NON-FUNCTIONAL SLOPE DRAIN PIPES. REMOVE AND REPLACE HEADWALLS AND ROCK CHANNEL PROTECTIONS WHERE NEW SLOPE DRAIN PIPES ARE INSTALLED.

ITEM 603 - 12" CONDUIT, TYPE C	400 FT.
ITEM 603 - 15" CONDUIT, TYPE C	100 FT.
ITEM 601 - ROCK CHANNEL PROTECTION, TYPE C, WITH FABRIC FILTER	10 CU. YD.
ITEM 602 - CONCRETE MASONRY	5 CU. YD.

**ITEM SPECIAL - DOWEL BAR VERIFICATION**

**NOTE DELETED**

ADDENDUM NO. 2	NLC	12/27/11
ADDENDUM NO. 1	NLC	12/22/11
NO. REVISIONS	BY	DATE
<b>OHIO TURNPIKE COMMISSION</b>		
OHIO TURNPIKE EASTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION GENERAL NOTES		
 RESOURCE INTERNATIONAL, INC. 6350 PRESIDENTIAL GATEWAY COLUMBUS, OH 43231		
DESIGNED: NLC	CHECKED: SSK	DATE: 12/27/2011
DRAWN: NLC	IN CHARGE: SSK	SCALE: N/A
CONTRACT 39-12-01 SHEET 9 OF 136		

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## MAINTENANCE OF TRAFFIC SUB-SUMMARY

SHEET NO.	PHASE A, STEP 1	FROM STATION	TO STATION	SIDE	614	614	614	615	621	SP 622A	SP 622A	SPECIAL	SP 626A	SP 626A	SPECIAL	614	614	614	614	614	SP 641C	SP 641
					WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL OR BIDIRECTIONAL)	FLASHING ARROW PANEL	WORK ZONE CROSSOVER LIGHTING SYSTEM	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	REMOVAL OF RPM REFLECTORS	TEMPORARY PORTABLE BARRIER (WITHOUT GLARE SHIELD)	TEMPORARY PORTABLE BARRIER (WITH GLARE SHIELD)	SAW CUT JOINT	CONSTRUCTION ZONE MARKER, ONE-WAY MODEL, WHITE	CONSTRUCTION ZONE MARKER, ONE-WAY MODEL, YELLOW	EXISTING CROSSOVER TO BE CLOSED / RE-OPENED, AS PER PLAN	WORK ZONE EDGE LINE, CLASS 1, 642 PAINT (4" - WHITE)	WORK ZONE EDGE LINE, CLASS 1, 642 PAINT (4" - YELLOW)	WORK ZONE EDGE LINE, CLASS 1, 642 PAINT (6" - YELLOW)	WORK ZONE CHANNELIZING LINE, CLASS 1, 642 PAINT (8" - WHITE)	WORK ZONE TRANSVERSE LINE, CLASS 1, 642 PAINT (12" - WHITE)	REMOVAL OF PAVEMENT MARKINGS	4" TEMPORARY WHITE DOTTED LINE
					EACH	EACH	EACH	SQ YD	EACH	FT	FT	FT	EACH	EACH	EACH	FT	FT	FT	FT	FT	FT	FT
24	FAP	659+50		RT		1																
24	ELY6	659+50	663+00	RT														350			350	
24	*RLL	659+50	663+00	RT					3												350	
25	ELY6	663+00	708+00	RT														4500			4500	
25	*RLL	663+00	677+50	RT																	450	
26	ELY6	708+00	724+25	RT														1625			1625	
26	ELY6	732+50	741+00	LT														850			850	
26	CH	709+50	725+50	RT															1600		1600	
26	CH	717+65	725+50	RT															785		785	
26	TL	717+65	725+50	RT																	635	
26	TCB	725+50	738+80	RT	1					1330												
26	*RLL	717+65	724+25	RT					6													660
26	REL	724+25	741+00	RT																		1675
26	REL	737+50	741+00	LT																		350
26	ELY	725+50	741+00	LT/RT														1550			1550	
26	ELY	725+50	741+00	RT														1550			1550	
26	ELW	725+50	741+00	LT/RT													1550				1550	
26	ELW	725+50	741+00	RT													1550				1550	
26	*RLL	733+45	737+45	RT																		400
26	*RLL	733+45	736+45	RT																		300
26	TCB	736+00	741+00	LT							500											
26	TCB	733+45	741+00	RT	1					755												
26	MEDIAN BARRIER	736+60	738+40	CL																		
27-33	REL	741+00	945+00	LT/RT																		40,800
27-33	TCB	741+00	945+00	LT									20,400									
27-33	TCB	741+00	945+00	RT						20,400												
27-33	ELY6	741+00	945+00	LT														18,756				18,756
27-33	ELY	741+00	945+00	LT/RT														37,512				37,512
27-33	ELW	741+00	945+00	LT/RT													37,512					37,512
33	MEDIAN BARRIER	930+40	932+20	CL												1						
33	DL	944+00	945+00	RT																		100
34	REL	945+00	960+00	LT/RT																		3000
34	*RLL	945+00	951+50	RT					5													650
34	*RLL	950+00	951+50	RT					1													150
34	TCB	945+00	960+00	LT									1500									
34	TCB	945+00	952+82	RT						782												
34	TCB	950+93	960+00	RT	1					907												
34	TCB	950+93	953+00	RT						207												
34	ELY6	945+00	960+00	LT														1500				1500
34	ELY	945+00	960+00	LT/RT														3000				3000
34	ELW	945+00	960+00	LT													1500					1500
34	ELW	950+93	960+00	RT						907												907
34	ELW	945+00	953+25	RT						825												825
34	DL	945+00	949+25	RT																		
34	CH	949+25	950+93	RT																		168
34	CH	949+25	953+00	RT																		375
34	RTL	951+25	953+00	RT																		200
34	RCH	951+25	953+00	RT																		200
SUB-TOTALS CARRIED TO SHEET 18					3	1	0	0	15	24,381	22,400	0	0	0	2	43,844	43,612	27,581	2928	635	167,785	525

DESIGNED BY: W.D.B. | CHECKED BY: J.M.P. | DATE: OCT. 2011  
 DRAWN BY: J.J.C. | REVISED BY: W.D.B. | DATE: OCT. 2011  
 CAD FILE NAME: 11311\_MOTQNT.DWG

ADDENDUM NO. 2		PSL 12/11
NO.	REVISIONS	BY DATE
<b>OHIO TURNPIKE COMMISSION</b>		
MAINTENANCE OF TRAFFIC SUB-SUMMARY		
<b>CT Consultants</b> <small>engineers   architects   planners</small>		
DESIGNED: W.D.B.	CHECKED: J.M.P.	DATE: OCT. 2011
DRAWN: J.J.C.	IN CHARGE: W.D.B.	SCALE: N.T.S.
CONTRACT 39-12-01 SHEET 13 OF 136		





## MAINTENANCE OF TRAFFIC SUB-SUMMARY


SHEET NO.	PHASE A, STEP 1 CROSSOVER DETAILS	FROM STATION	TO STATION	SIDE	614	614	614	615	621	SP 622A	SP 622A	SPECIAL	SP 626A	SP 626A	SPECIAL	614	614	614	614	614		SP 641C	SP 641	SP 641	SP 641	SP 641		
					WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL OR BIDIRECTIONAL)	FLASHING ARROW PANEL	WORK ZONE CROSSOVER LIGHTING SYSTEM	PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A	REMOVAL OF RPM REFLECTORS	TEMPORARY PORTABLE BARRIER (WITHOUT GLARE SHIELD)	TEMPORARY PORTABLE BARRIER (WITH GLARE SHIELD)	SAW CUT JOINT	CONSTRUCTION ZONE MARKER, ONE-WAY MODEL, WHITE	CONSTRUCTION ZONE MARKER, ONE-WAY MODEL, YELLOW	EXISTING CROSSOVER TO BE CLOSED / RE-OPENED, AS PER PLAN	WORK ZONE EDGE LINE, CLASS 1, 642 PAINT (4" - WHITE)	WORK ZONE EDGE LINE, CLASS 1, 642 PAINT (4" - YELLOW)	WORK ZONE EDGE LINE, CLASS 1, 642 PAINT (6" - YELLOW)	WORK ZONE CHANNELIZING LINE, CLASS 1, 642 PAINT (8" - WHITE)	WORK ZONE TRANSVERSE LINE, CLASS 1, 642 PAINT (12" - WHITE)		REMOVAL OF PAVEMENT MARKINGS	4" TEMPORARY WHITE DOTTED LINE	4" TEMPORARY WHITE EDGE LINE	4" TEMPORARY YELLOW EDGE LINE	6" TEMPORARY YELLOW EDGE LINE		
					EACH	EACH	EACH	SQ YD	EACH	FT	FT	FT	EACH	EACH	EACH	FT	FT	FT	FT	FT		FT	FT	FT	FT	FT		
52-54	CZMY	731+45	739+45	LT/RT										160														
52-54	CZMY	731+45	741+50	LT/RT										201														
52-54	CZMW	731+45	742+50	LT/RT									221															
52-54	CZMW	731+45	739+60	LT/RT									163															
52-54	LIGHTING	733+45	740+20.87	LT/RT			1																					
55-57	CZMY	1041+60	1049+50	LT/RT										158														
55-57	CZMY	1039+74	1049+50	LT/RT										195														
55-57	CZMW	1038+75	1049+50	LT/RT									215															
55-57	CZMW	1041+70	1049+50	LT/RT									156															
55-57	LIGHTING	1041+31.50	1047+54	LT/RT			1																					
27	BRIDGE LIMITS	758+99.64	761+65.42	RT																			532	532	266			
28	BRIDGE LIMITS	788+49.28	790+19.03	RT																			340	340	170			
29	BRIDGE LIMITS	803+63.67	805+81.61	RT																			436	436	218			
30	BRIDGE LIMITS	846+94.59	849+29.38	RT																			470	470	235			
32	BRIDGE LIMITS	898+82.47	901+42.99	RT																			522	522	261			
33	BRIDGE LIMITS	913+55.59	915+12.27	RT																			314	314	157			
33	BRIDGE LIMITS	941+08.13	944+44.73	RT																			674	674	337			
SHEET SUB-TOTALS					0	0	2	0	0	0	0	0	755	714	0	0	0	0	0	0	0	0	0	0	3288	3288	1644	
SUB-TOTALS CARRIED FROM SHEET 17					0	0	0	0	0	3910	0	0	0	0	0	0	5650	5650	0	0	0	0	11,300	850	1510	1510	0	
SUB-TOTALS CARRIED FROM SHEET 16					0	0	0	0	0	4150	0	0	0	0	0	0	7572	7572	0	0	0	0	15,144	0	1778	1778	0	
SUB-TOTALS CARRIED FROM SHEET 15					3	0	0	0	0	5179	0	0	0	0	0	0	7928	3329	0	912	0	0	12,169	1755	0	0	0	
SUB-TOTALS CARRIED FROM SHEET 14					2	1	0	52	24	8347	8527	240	0	0	2	17,753	17,794	12,755	2984	0	0	0	65,176	1498	0	0	0	
SUB-TOTALS CARRIED FROM SHEET 13					3	1	0	0	15	24,381	22,400	0	0	0	2	43,844	43,612	27,581	2928	635	0	0	0	167,785	525	0	0	0
TOTALS					8	2	2		39	45,967	30,927	240	755	714	4	82,747	77,957	40,336	6824	635		271,574	4628	6576	6576	1164		
TOTALS CARRIED TO GENERAL SUMMARY SHEETS 58-59					8	2	2	52	39	8.71 MILE	5.86 MILE	240	755	714	4	15.67 MILE	14.76 MILE	7.64 MILE	6824	635		51.43 MILE	4628	1.25 MILE	1.25 MILE	0.22 MILE		

1

DESIGNED BY: W.D.B. | CHECKED BY: J.M.P. | DATE: OCT. 2011  
 DATE: SEPT. 2011 | DATE: OCT. 2011  
 DRAWN BY: J.J.C. | REVISED BY: J.J.C. | DATE: OCT. 2011  
 DATE: OCT. 2011 | DATE: OCT. 2011  
 CAD FILE NAME: 11311\MOTONT.DWG


ADDENDUM NO. 2	PSL 12/11
NO. REVISIONS	BY DATE
<b>OHIO TURNPIKE COMMISSION</b>	
MAINTENANCE OF TRAFFIC SUB-SUMMARY	
<b>CT Consultants</b> <small>engineers   architects   planners</small>	
DESIGNED: W.D.B.	CHECKED: J.M.P.   DATE: OCT. 2011
DRAWN: J.J.C.	IN CHARGE: W.D.B.   SCALE: N.T.S.
CONTRACT 39-12-01 SHEET 18 OF 136	

SHEET NUMBER																ITEM	GRAND TOTAL		UNIT	DESCRIPTION	REF. NO.				
8	9	10	11	12	18	19	62	63	64	65	66	103	114	115	134		135	PART A				PART B			
																<b>ROADWAY</b>									
LUMP								27									201		LUMP	CLEARING AND GRUBBING					
								5493									202	27	EACH	CATCH BASIN REMOVED					
								12627									202	5493	FT	CURB REMOVED					
								1422									202	12627	FT	GUARDRAIL REMOVED					
																	202	1422	FT	GUARDRAIL REMOVED, BARRIER DESIGN					
								1206									202	1206	SQ YD	APPROACH SLAB REMOVED					
						200		195									202	395	FT	CONCRETE BARRIER REMOVED					
										73527							202	73527	SQ YD	PAVEMENT REMOVED					
																	1056	1056	EACH	RAISED PAVEMENT MARKERS, REMOVED FOR DISPOSAL					
																	20	20	CU YD	CRACK REPAIR, ONE (1) INCH OR LESS, USING SAND ASPHALT					
																	20	20	CU YD	CRACK REPAIR, WIDER THAN ONE (1) INCH AND LESS THAN ONE (1) INCH IN DEPTH, USING SP 404					
																	200	200	CU YD	CRACK REPAIR, WIDER THAN ONE (1) INCH AND GREATER THAN ONE (1) INCH IN DEPTH, USING SP 402					
																	200	200	CU YD	LONGITUDINAL CRACK REPAIR, AS PER PLAN					
24804																	203	24804	CU YD	EXCAVATION					
						2280											254	140800	SQ YD	PAVEMENT PLANING, ASPHALT CONCRETE					
																	600	600	SQ YD	PAVEMENT PLANING, PORTLAND CEMENT CONCRETE, AS PER PLAN		135			
								160									SP536	160	SQ YD	CONCRETE WEATHERPROOFING, BARRIERS AND PARAPETS					
								12665.75									606	12665.75	FT	GUARDRAIL, TYPE 5, USING STEEL POST					
								1425									606	1425	FT	GUARDRAIL, BARRIER DESIGN, USING STEEL POST					
								7									606	7	EACH	ANCHOR ASSEMBLY, TYPE T, USING STEEL POST					
								12									606	12	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 1, USING STEEL POST					
								7									606	7	EACH	BRIDGE TERMINAL ASSEMBLY, TYPE 2, USING STEEL POST					
								1									606	1	EACH	IMPACT ATTENUATOR, TYPE I (UNIDIRECTIONAL)					
								12									SP606E	12	EACH	ANCHOR ASSEMBLY, TYPE E (ET-2000 PLUS)					
								280									609	280	FT	CURB, TYPE 4-A					
								5444									609	5444	FT	ASPHALT CONCRETE CURB, PG64-22 STANDARD, TYPE 1					
								943									SP611	943	SQ YD	CLASS C, CONCRETE APPROACH SLAB USING TYPE I CEMENT (T=12")					
								217									622	217	FT	CONCRETE BARRIER TYPE D, AS PER PLAN		8			
												380					622	380	FT	CONCRETE BARRIER, TYPE B-50, AS PER PLAN		9			
												154					SP622A	154	FT	TEMPORARY PORTABLE BARRIER					
												380					SP625	380	FT	CONDUIT, 4" WITH 3 CELL INNERDUCT, 725.05					
												380					SP625	380	FT	CONDUIT, 4" WITH 4 CELL INNERDUCT, 725.05					
								216									626	216	EACH	BARRIER REFLECTOR, TYPE A					
								5									626	8	EACH	BARRIER REFLECTOR, TYPE B					
																<b>EROSION CONTROL</b>									
1481																	207	1481	SQ YD	TEMPORARY SEEDING AND MULCHING					
																	207	1216	FT	INLET PROTECTION					
																	207	1190	FT	FILTER FABRIC FENCE					
																	207	2850	FT	FILTER FABRIC DITCH CHECK					
																	207	1173	CU YD	DIKES					
																	207	1068	FT	SLOPE DRAINS					
																	207	28	CU YD	ROCK CHANNEL PROTECTION, TYPE C OR D, WITHOUT FILTER					
																	659	2	EACH	SOIL ANALYSIS TEST					
																	659	3288	CU YD	TOPSOIL					
																	659	29613	SQ YD	SEEDING AND MULCHING					
																	659	1481	SQ YD	REPAIR SEEDING AND MULCHING					
																	659	1481	SQ YD	INTER SEEDING					
																	659	4.3	TON	COMMERCIAL FERTILIZER					
																	659	6.1	ACRE	LIME					
																	659	169	M GAL	WATER					
																	LUMP	832	LUMP	EROSION CONTROL					

ADDENDUM NO. 2		NLC	12/27/11
NO.	REVISIONS	BY	DATE
<b>OHIO TURNPIKE COMMISSION</b>			
OHIO TURNPIKE EASTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION GENERAL SUMMARY			
 <b>RESOURCE INTERNATIONAL, INC.</b> 6350 PRESIDENTIAL GATEWAY COLUMBUS, OH 43221			
DESIGNED: NLC	CHECKED: SSK	DATE: 12/27/2011	
DRAWN: NLC	IN CHARGE: SSK	SCALE: N/A	
CONTRACT 39-12-01		SHEET 58 OF 136	

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SHEET NUMBER																	ITEM	GRAND TOTAL		UNIT	DESCRIPTION	REF. NO.
8	9	10	11	12	18	19	62	63	64	65	66	103	114	115	134	135		PART A	PART B			
																	<b>DRAINAGE</b>					
10																	601	10	CU YD	ROCK CHANNEL PROTECTION, TYPE C, WITH FABRIC FILTER		
5																	602	5	CU YD	CONCRETE MASONRY		
	170								1215								603	1385	FT	6" CONDUIT TYPE F, NON-PERFORATED ASTM 3034 SDR 35 SS931 OR SS944		
400							66										603	466	FT	12" CONDUIT, TYPE C		
100							12										603	112	FT	15" CONDUIT, TYPE C		
							27										SP604	27	EACH	CATCH BASIN TYPE CB-1		
										26651							605	26651	FT	AGGREGATE DRAIN, AS PER PLAN	9	
	765								50685								SP605	51450	FT	6" SHALLOW PIPE UNDERDRAIN, WITH FABRIC FILTER WRAP	9	
									2528								SP605	2528	FT	6" UNCLASSIFIED PIPE UNDERDRAIN, WITH FABRIC FILTER WRAP		
									45								SPECIAL	45	EACH	PRECAST REINFORCED CONCRETE OUTLET	8	
																	<b>PAVEMENT</b>					
48589																	206	48589	SQ YD	LIME STABILIZED SUBGRADE, 12 INCHES DEEP, AS PER PLAN	9	
60811																	206	60811	SQ YD	LIME STABILIZED SUBGRADE, 16 INCHES DEEP, AS PER PLAN	9	
3060																	206	3060	TON	LIME		
1.4																	206	1.4	M GAL	WATER FOR CURING		
37																	206	37	HOUR	TEST ROLLING		
500																	251	500	SQ YD	PARTIAL DEPTH PAVEMENT REPAIR		
										26651							252	26651	FT	FULL DEPTH PAVEMENT SAWING		
200	▲																255	200	FT	FULL DEPTH PAVEMENT SAWING		
500																	255	500	SQ YD	FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT		
							20										SP302	20	CU YD	BITUMINOUS AGGREGATE BASE COURSE, PG64-22		
										13443							SP304	13443	CU YD	AGGREGATE BASE		
										7762							SP304	7762	CU YD	AGGREGATE BASE (SHOULDER)		
							252			1262	▲						SP402	1514	CU YD	ASPHALT CONC. BASE COURSE, OR RECYCLED ASPHALT CONC. BASE COURSE, PG64-22		
										4130	▲						SP402	4130	CU YD	ASPHALT CONC. BASE COURSE, OR RECYCLED ASPHALT CONC. BASE COURSE, PG70-22 (FR)		
										1082							SP404	1082	CU YD	ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED SLAG, PG64-22		
										3434		135				7978	SP404	7978	CU YD	ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED SLAG, PG70-22 (FR)		
																	SP404	81	CU YD	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC ON CROSSOVER, PG64-22		
							81			26651		4000				84480	SP404A	84480	FT	JOINT SEALER		
							1536			7905	▲					14080	SP407	14080	GALLON	TACK COAT		
							173			6502	▲						SP407	6836	GALLON	TACK COAT FOR INTERMEDIATE COURSE		
							140			79449		194					452	79449	SQ YD	NON-REINFORCED CONCRETE PAVEMENT (T=13")	9	
										26462							SPECIAL	26462	SQ YD	ROLLER COMPACTED CONCRETE (SHOULDER, T=9")	9	
										4615							SP617	4615	SQ YD	SHOULDER PREPARATION		
										385							SP617	385	CU YD	COMPACTED AGGREGATE		
										426							SP627	426	CU YD	STONE SHOULDER PROTECTION		
	765									14806							SPECIAL	14806	SQ YD	ASPHALT PAVEMENT REINFORCEMENT	9	
																	SPECIAL	765	FT	PRESSURE RELIEF JOINT, TYPE A	9	
										5.07	▲	0.38					SPECIAL	5.45	MILE	SONIC NAP ALERT PATTERN (SNAP)		
	26900				240	1936						2000					SPECIAL	31076	FT	SAW CUT JOINT	9	
										6615							SP302	6615	CU YD	BITUMINOUS AGGREGATE BASE COURSE PG64-22 (SHOULDER)		
										7762							SP304	7762	CU YD	10" RECYCLED AGGREGATE BASE, AS PER PLAN (SHOULDER)	8	
10000																	SPECIAL	10000	CU YD	CRUSHED MATERIAL STOCKPILE		
																	<b>BRIDGE MAINTENANCE</b>					
																3306	SP516B	3306	FT	SEALING OF CONSTRUCTION JOINTS		
																340	SP519	340	SQ FT	PATCHING CONCRETE STRUCTURES		
																353	SP533E	353	FT	CONTINUOUS ELASTOMER SEAL IN ELASTOMERIC CONCRETE JOINT		
																261	SP533F	261	FT	REPLACEMENT OF COMPRESSION SEAL WITH CONTINUOUS ELASTOMER SEAL		
																3159	SP536	3159	SQ YD	CONCRETE WEATHERPROOFING, BARRIERS AND PARAPETS		
																10997	SP536	10997	SQ YD	CONCRETE WEATHERPROOFING, DECK AND APPROACH SLABS		
																	<b>TRAFFIC CONTROL</b>					
																97	620	97	EACH	REMOVAL OF DELINEATOR, USING STEEL POST		
																106	620	106	EACH	DELINEATOR, POST MOUNTED, AS PER PLAN	116	
																620	SP626	620	EACH	RAISED PAVEMENT MARKER STIMSONITE MODEL 101 LPCR (WHITE)	9	
																10	SP626	10	EACH	RAISED PAVEMENT MARKER STIMSONITE MODEL 101 LPCR (YELLOW)	9	
																42	SP626	42	EACH	REPLACEMENT PRISMATIC RETRO-REFLECTOR (WHITE)	9	

▲	ADDENDUM NO. 2	NLC	12/27/11
▲	ADDENDUM NO. 1	NLC	12/22/11
No.	REVISIONS	BY	DATE
<b>OHIO TURNPIKE COMMISSION</b>			
OHIO TURNPIKE EASTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION GENERAL SUMMARY			
 RESOURCE INTERNATIONAL, INC. 6350 PRESIDENTIAL GATEWAY COLUMBUS, OH 43221			
DESIGNED: NLC	CHECKED: SSK	DATE: 12/27/2011	
DRAWN: NLC	IN CHARGE: SSK	SCALE: N/A	
CONTRACT 39-12-01		SHEET 59 OF 136	



