

**ITEM 617 SHOULDER RECONDITIONING, MISC.: GRADING**

THIS WORK CONSISTS OF PREPARING THE SHOULDER, AND FURNISHING AND COMPACTING AGGREGATE ON THE EXISTING SHOULDER AS PER ODOT CMS SECTION 617 TO PROVIDE AN EVEN TRANSITION FROM THE MAINLINE ROADWAY TO THE SHOULDER. THE CONTRACTOR SHALL SLOPE THE SHOULDER AT 0.08 TO PROVIDE POSITIVE DRAINAGE. THE AGGREGATE SHOULDER SHALL BE 1 FOOT WIDE AND 1 INCH THICK.

THE CONTRACTOR SHALL APPLY ONE COAT OF MC-70 (AS PER CMS 702) AT A RATE OF 0.40 GAL/SY TO THE COMPLETED AGGREGATE SHOULDER. TO REDUCE AGGREGATE LOSS, THE PRIME COAT SHALL BE APPLIED WITHIN SEVEN (7) DAYS AFTER PLACEMENT OF THE AGGREGATE SHOULDER OR LIQUIDATED DAMAGES PER CMS 108.07 WILL BE ASSESSED. THE CONTRACTOR SHALL PROVIDE A SHIELD TO PREVENT THE SPRAYING OR DRIFTING OF LIQUID BITUMINOUS MATERIAL ONTO THE EDGE OF PAVEMENT OR EDGE LINE. THE ATTENTION OF THE CONTRACTOR IS DIRECTED TO 107.10 OF THE SPECIFICATIONS.

AREAS WHERE THE SHOULDER IS HIGHER THAN THE EDGE OF PAVEMENT WILL BE GRADED TO PROVIDE POSITIVE DRAINAGE. GRADING WILL BE ACCOMPLISHED BY THE REMOVAL OF MATERIAL TO PROVIDE A POSITIVE SLOPE. THE GRADED AREAS WILL BE COMPACTED TO A SUFFICIENT DENSITY TO PREVENT EROSION UNTIL SEEDING AND MULCHING IS PERFORMED. ALL EXCESS MATERIAL WILL BE REMOVED FROM THE BERMS AND WILL BE DISPOSED OF OFF THE PROJECT SITE BY THE CONTRACTOR.

ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK WILL BE INCLUDED IN THE UNIT PRICE FOR THE PERTINENT BID ITEM. THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 617 - SHOULDER RECONDITIONING, MISC.: GRADING	6,958 SY
ITEM 659 - SEEDING AND MULCHING, CLASS 1	5,970 SY
ITEM 659 - COMMERCIAL FERTILIZER	0.80 TON
ITEM 659 - WATER	17 MGAL
ITEM 659 - LIME	1.23
ACRES	

**ITEM 623, CONSTRUCTION LAYOUT STAKES AND SURVEYING, AS PER PLAN**

WHEN STATIONING A RESURFACING PROJECT FOR QUANTITY CONTROL, THE REFERENCE IN 623.02 TO A REGISTERED PROFESSIONAL ENGINEER OR REGISTERED SURVEYOR SHALL BE WAIVED. THE STAKES MAY BE PLACED BY THE CONTRACTOR'S PERSONNEL USING A MEASURING WHEEL.

**ITEM 422, DOUBLE CHIP SEAL - AGGREGATE AND EMULSION**  
FOR DOUBLE CHIP SEAL PROVIDE AGGREGATE CONSISTING OF WASHED LIMESTONE #57 FOR THE FIRST COURSE WITH AN INITIAL BINDER APPLICATION RATE OF 0.35 GALLON PER SQUARE YARD AND PROVIDE AN AGGREGATE CONSISTING OF WASHED LIMESTONE #8 FOR THE SECOND COURSE WITH AN INITIAL BINDER APPLICATION RATE OF 0.45 GALLON PER SQUARE YARD.

**MAILBOX APPROACHES**

APPROACHES SHALL BE SEALED WITH DOUBLE CHIP SEAL. ANY EXTRA GRADING OF THE SHOULDERS, PRIME COAT, MATERIALS, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE MAILBOX TURN OUTS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE ITEMS SHOWN ON THE MAILBOX APPROACH SUBSUMMARY, SHEET 6.

**ITEM 614 MAINTAINING TRAFFIC**

LANE CLOSURES SHALL BE IN ACCORDANCE WITH THE PLANS AND CONTRACT DOCUMENTS. LIQUIDATED DAMAGES SHALL BE ASSESSED IN ACCORDANCE WITH SECTION 108.07 OF THE CONSTRUCTION AND MATERIAL SPECIFICATIONS AND CONTRACT DOCUMENTS.

TWO-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES EXCEPT THAT ONE-WAY TRAFFIC WILL BE PERMITTED FOR MINIMUM PERIODS OF TIME CONSISTENT WITH THE REQUIREMENTS OF THE SPECIFICATIONS FOR PROTECTION OF COMPLETED ASPHALT CONCRETE COURSES.

A MINIMUM OF ONE LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES BY USE OF THE EXISTING PAVEMENT PER STANDARD CONSTRUCTION DRAWING MT-97.12.

TRAFFIC SHALL BE MAINTAINED DURING LANE CLOSURES WITH FLAGGERS AS PER STANDARD DRAWINGS MT-97.10 AND MT-97.12 AT ALL TIMES.

LENGTH AND DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITHIN A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

ACCESS TO LOCAL PROPERTY OWNERS, BUSINESS, AND PARKS SHALL BE MAINTAINED AT ALL TIMES.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH ITEM 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

**ITEM 614 WORK ZONE CENTER LINE**

ONLY ITEM 614 WORK ZONE CENTER LINE, CLASS II HAS BEEN ITEMIZED IN THE PLAN. ANY COSTS FOR ADDITIONAL TEMPORARY CENTER LINE REQUIRED TO ADHERE TO SPEC. 614, INCLUDING WORK ZONE CENTER LINE, CLASS III, SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC.

**ITEM 614 WORK ZONE MARKING SIGNS**

THE CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN SIGNS AND SIGN SUPPORTS AS DETAILED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, AND TYPE III BARRICADES OF THE TYPES AS FOLLOWS:

IN ACCORDANCE WITH CMS SECTION 614.04, THE QUANTITY OF WORK ZONE MARKING SIGN HAS BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER.

R4-1	(DO NOT PASS) -	2
ITEM 614 WORK ZONE MARKING SIGN TOTALS		6 TOTAL

"ROAD CONSTRUCTION AHEAD" AND "END CONSTRUCTION" SIGNS SHALL BE ERECTED AT EACH INTERSECTING ROADWAY AS WELL AS AT THE BEGINNING AND END OF THE CONSTRUCTION WORK ZONE. SIGNS FROM MT-97.12 AS WELL AS THE "ROAD CONSTRUCTION AHEAD" AND "END CONSTRUCTION" SIGNS SHALL BE INCLUDED FOR PAYMENT WITH THE LUMP SUM BID FOR ITEM 614 MAINTAINING TRAFFIC. THE COUNTY WILL RETAIN ALL SIGNS MENTIONED IN THIS NOTE AFTER PROJECT COMPLETION.

**NOTIFICATION OF TRAFFIC RESTRICTIONS**

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

NOTIFICATION OF TRAFFIC RESTRICTIONS TIME TABLE		
ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO
RAMP & ROAD CLOSURES	>= 2 WEEKS	21 CALENDAR DAYS
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURES & RESTRICTIONS	>= 2 WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE
	< 12 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE
START OF CONSTRUCTION & TRAFFIC PATTERN CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME TABLE.

DESIGN AGENCY



DESIGNER	MCC
REVIEWER	KJO
PROJECT ID	115940
SHEET	4
TOTAL	11



ROADWAY													
SLM RANGE	TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	422	422	617	643			
							AGGREGATE, DOUBLE CHIP SEAL	EMULSION, CHIP SEAL	SHOULDER RECONDITIONING, MISC.: GRADING	CENTER LINE			
							SY	GAL	SY	MILE			
FT	FT	SQ YD	SQ YD	SY	GAL	SY	MILE						
CR 5A (GLADY ROAD)													
0.00	TO	0.33	1	LEFT	1742.40	9.00	1742.40		1742.40	1393.92			0.33
0.00	TO	0.33	1	LEFT	1742.40	1.00	193.60				193.60		
0.00	TO	0.33	1	RIGHT	1742.40	9.00	1742.40		1742.40	1393.92			
0.00	TO	0.33	1	RIGHT	1742.40	1.00	193.60				193.60		
0.00	TO	3.68	1	LEFT	19430.40	9.00	19430.40		19430.40	15544.32			3.68
0.00	TO	3.68	1	LEFT	19430.40	1.00	2158.93				2158.93		
0.00	TO	3.68	1	RIGHT	19430.40	9.00	19430.40		19430.40	15544.32			
0.00	TO	3.68	1	RIGHT	19430.40	1.00	2158.93				2158.93		
3.68	TO	4.67	2	LEFT	5227.20	9.00	5227.20		5227.20	4181.76			
3.68	TO	4.67	2	LEFT	5227.20	1.00	580.80				580.80		
3.68	TO	4.67	2	RIGHT	5227.20	9.00	5227.20		5227.20	4181.76			
3.68	TO	4.67	2	RIGHT	5227.20	1.00	580.80				580.80		
CR 62 (WILLS CREEK ROAD)													
0.00	TO	0.93	2	LEFT	4910.40	9.00	4910.40		4910.40	3928.32			
0.00	TO	0.93	2	LEFT	4910.40	1.00	545.60				545.60		
0.00	TO	0.93	2	RIGHT	4910.40	9.00	4910.40		4910.40	3928.32			
0.00	TO	0.93	2	RIGHT	4910.40	1.00	545.60				545.60		
SUBTOTALS							62620.80	50096.64	6957.87	4.01			
TOTALS CARRIED TO GENERAL SUMMARY							62621	50097	6958	4.01			

INTERSECTIONS										
SLM LOG POINT	INTERSECTION OR ADDRESS	SIDE	TYPE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	422	422	
								AGGREGATE, DOUBLE CHIP SEAL	EMULSION, CHIP SEAL	
								SY	GAL	
FT	FT	SQ YD	SQ YD	SY	GAL	SY	GAL			
CR 5A (GLADY ROAD)										
0.04	CHURCH STREET	R	ASPHALT	20.00	28.00	62.22		62.22	1.38	
2.43	TR 216	L	ASPHALT	20.00	52.00	115.56		115.56	2.57	
2.72	TR 227	R	ASPHALT	20.00	63.00	140.00		140.00	3.11	
3.41	CR 6	L	ASPHALT	20.00	73.00	162.22		162.22	3.60	
4.34	TR 218	L	GRAVEL	20.00	39.00	86.67		86.67	1.93	
SUBTOTALS							566.67	12.59		
TOTALS CARRIED TO GENERAL SUMMARY							567	13		

MAILBOX APPROACHES										
SLM LOG POINT	ADDRESS	SIDE	TYPE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	422	422	
								AGGREGATE, DOUBLE CHIP SEAL	EMULSION, CHIP SEAL	
								SY	GAL	
FT	FT	SQ YD	SQ YD	SY	GAL	SY	GAL			
CR 5A (GLADY ROAD)										
1.06	49499.00	L	ASPHALT	79.00	6.00	52.67		52.67	42.13	
1.25	49600.00	L	ASPHALT	90.00	4.00	40.00		40.00	32.00	
SUBTOTALS							92.67	74.13		
TOTALS CARRIED TO GENERAL SUMMARY							93	75		