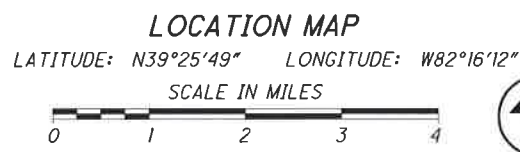
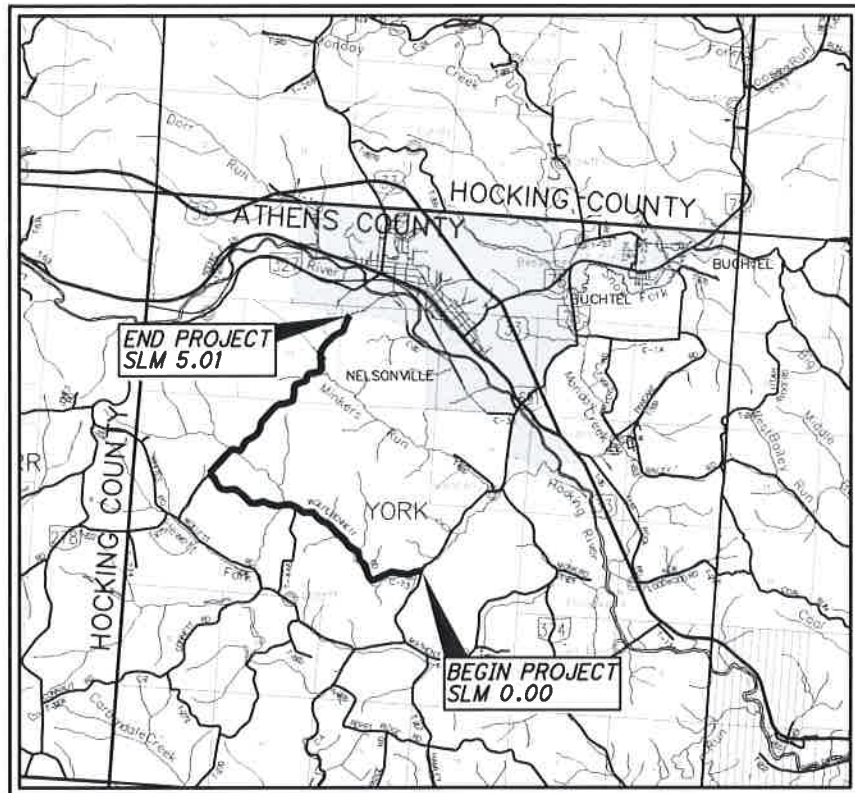


ATHENS COUNTY ENGINEER
ATH-CR73-0.00

**YORK TOWNSHIP
ATHENS COUNTY**



- PORTION TO BE IMPROVED.....
 INTERSTATE HIGHWAY.....
 STATE & FEDERAL ROUTES.....
 COUNTY & TOWNSHIP ROADS.....
 OTHER ROADS.....

DESIGN EXCEPTIONS
NONE REQUIRED

INDEX OF SHEETS:

TITLE SHEET	1
GENERAL NOTES & CALCULATIONS	2
GENERAL SUMMARY	3

PROJECT DESCRIPTION

RESURFACING COUNTY ROAD 73 - WOLFE BENNETT ROAD IN ATHENS COUNTY BY PLACING 2.5" THICK OF MOTOR PAVING CONSISTING OF #57 STONE AND ASPHALT EMULSION. ALSO PLACE #8 CHIP AND SEAL.

PROJECT EARTH DISTURBED AREA:

N/A (Maintenance Project)

ESTIMATED CONTRACTOR EARTH DISTURBED AREA:

N/A (Maintenance Project)

NOTICE OF INTENT EARTH DISTURBED AREA:

N/A (Maintenance Project)

2016 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVE THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

UNDERGROUND UTILITIES
 CONTACT BOTH SERVICES
 CALL TWO WORKING DAYS
BEFORE YOU DIG
 CALL
1-800-362-2764
 (TOLL FREE)
 OHIO UTILITIES PROTECTION SERVICE
 NON-MEMBERS
 MUST BE CALLED DIRECTLY
 OIL & GAS PRODUCERS UNDERGROUND
 PROTECTION SERVICE CALL: 1-800-925-0988

PLANS PREPARED BY:
 ATHENS COUNTY ENGINEER'S OFFICE
 16000 CANAANVILLE RD
 ATHENS, OHIO 45701

ENGINEER'S SEAL	STANDARD CONSTRUCTION DRAWINGS	SUPPLEMENTAL SPECIFICATIONS
	MT-97.12 1-20-17	SS-800 4-20-18
	MT-101.60 1-20-17	SS-832 1-17-14
	MT-105.10 7-19-13	
SIGNED: <i>Rex Jeffrey Maiden</i> DATE: 4/23/2018		
	SPECIAL PROVISIONS	

APPROVED *Larry Elson*
 DATE 4/24/18 ATHENS COUNTY COMMISSIONER

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MOTOR PAVE CONSTRUCTION DETAILS

THE CONTRACTOR MUST USE A SELF-PROPELLED MOTOR PAVER. CONTROL OF THE SCREED OF STRIKE-OFF POSITION SHALL BE INDEPENDENT OF IRREGULARITIES IN THE UNDERLYING SURFACE AND OF SPREADER OPERATION TO MAINTAIN PROPER PROFILE. A FULL-WIDTH (APPROXIMATELY 18'-20' SCREED) PAVER SHALL BE USED. THE ROAD WILL BE CLOSED TO TRAFFIC DURING WORK HOURS.

ALL ROAD SURFACES SHALL BE SWEEPED BEFORE COMMENCEMENT OF WORK.

MATERIALS TO BE USED ARE AS FOLLOWS: AGGREGATE: #57 LIMESTONE (150 LBS. PER SQUARE YARD), EMULSION: MC800 (10.0 GALLONS PER TON OF 57'S), CHOKE AGGREGATE: #9 GRAVEL/GRITS (10 LBS. PER SQUARE YARD). HAUL DISTANCE WILL DETERMINE THE USE OF THE AGGREGATE VENDOR. PAVEMENT LAYER IS TO BE AN AVERAGE OF TWO AND HALF (2.5) INCHES THICK.

THE CONTRACTOR SHALL MAINTAIN THE COLD MIX DESIGN AND THE RATE OF APPLICATION OF THE COLD MIX AS SPECIFIED. THERE SHALL BE NO VARIATION FROM THE SPECIFICATIONS UNLESS A CHANGE BY THE ENGINEER IS DETERMINED TO BE NECESSARY, MIXING TIME OF THE AGGREGATE AND ASPHALT EMULSION SHALL BE AS REQUIRED TO PRODUCE A MIXTURE IN WHICH UNIFORM DISTRIBUTION OF THE ASPHALT EMULSION AND COATING OF THE AGGREGATE IS OBTAINED. AGGREGATE SURFACES SHALL BE OBSERVED FOR MOISTURE TO ASSURE THAT AN ACCEPTABLE COATING OF ASPHALT MATERIAL MAY BE OBTAINED. COLD MIX SHALL NOT BE PLACED WHEN THE SURFACE IS WET AND /OR WHEN WEATHER CONDITIONS OTHERWISE PREVENT PROPER HANDLING, FINISHING, OR CUTTING OF THE MIXTURE. EMULSION THAT FAIL TO PERFORM SATISFACTORILY IN THE FIELD WITH PAVING EQUIPMENT AND WITH THE AGGREGATE SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER.

ALL COLD MIX APPLICATIONS ON ALL ROADS IN THIS CONTRACT SHALL BE ROLLED TO PROPER COMPACTION AS DIRECTED BY THE ENGINEER. CONTRACTORS SHALL ALWAYS USE TWO (2) DRUM STEEL AND PNEUMATIC TIRED ROLLERS. THE FIRST STAGE OF FINISHING SHALL REQUIRE INITIAL ROLLING FOR NECESSARY COMPACTION. IMMEDIATELY FOLLOWING THE INITIAL ROLLING, THE CHOKE AGGREGATE SHALL BE APPLIED UNIFORMLY AT AN APPROXIMATE RATE OF 10 POUNDS PER SQUARE YARD OR AS DIRECTED BY THE ENGINEER. THE SECOND AND FINAL STAGE OF FINISHING SHALL REQUIRE THAT THE FINAL ROLLING BE CONTINUED UNTIL THE CHOKE AGGREGATE IS THOROUGHLY EMBEDDED AND ROLLER MARKS ARE ELIMINATED.

PAVEMENT SHALL BE FEATHERED TWO (2) FEET INTO ALL DRIVEWAYS (WHERE POSSIBLE) AND TEN (10) FEET INTO ALL INTERSECTIONS (WHERE POSSIBLE) AND AT A RATE OF TWENTY FIVE (25) FEET PER INCH OF PAVEMENT THICKNESS AT THE BEGINNING AND THE END OF ALL PAVED SECTIONS.

THE PROJECT INSPECTOR MUST BE ON-SITE BEFORE ANY WORK COMMENCES. DELIVERY TICKETS OR SLIPS FOR EVERY LOAD OF STONE AND ASPHALT DELIVERED AND/OR USED AT THE WORK SITE SHALL BE GIVEN TO THE INSPECTOR. SUCH DELIVERY TICKETS WILL BE USED TO VERIFY THE WORK PERFORMED BY THE CONTRACTOR AND PAY THE CONTRACTOR FOR HIS APPLICATION OF THE COLD MIX MATERIAL.

MOTOR PAVING BID ITEMS

ITEM SPECIAL-MISC.: EMULSION (MC800)

SHALL INCLUDE THE PRICE OF MATERIAL, LABOR, AND EQUIPMENT TO SUPPLY AND PLACE MIX LIQUID IN THE PER GALLON UNIT BID PRICE.

ITEM SPECIAL-MISC.: No. 57 LIMESTONE

SHALL INCLUDE THE PRICE OF MATERIAL, LABOR, AND EQUIPMENT TO SUPPLY AND PLACE THE LIMESTONE IN THE PER TON UNIT BID PRICE.

ITEM SPECIAL-MISC.: No. 9 LIMESTONE

SHALL INCLUDE THE PRICE OF MATERIAL, LABOR, AND EQUIPMENT TO SUPPLY AND PLACE THE LIMESTONE IN THE PER TON UNIT BID PRICE.

CHIP SEAL CONSTRUCTION DETAILS

MATERIAL PLACEMENT: ASPHALT EMULSIONS AND AGGREGATE SHALL BE PLACED ON THE SURFACE OF THE ROADWAY WITH COMPUTER CONTROLLED APPLICATION EQUIPMENT ON BOTH THE DISTRIBUTOR AND THE CHIP SPREADER. THE MATERIALS SHALL BE APPLIED "FULL WIDTH" ON THE DRIVING SURFACE AT THE WIDTHS SPECIFIED, EXCEPTING THOSE ROADWAYS IDENTIFIED AS LESS THAN FULL WIDTH IN THE BIDDING DOCUMENTS.

ALL ROAD SURFACES SHALL BE SWEEPED BEFORE COMMENCEMENT OF WORK.

MATERIALS TO BE USED ARE AS FOLLOWS: AGGREGATE: #8 LIMESTONE (23 LBS. PER SQUARE YARD), EMULSION: AE-90 OR MWS-90 (0.4 GALLONS PER SY). HAUL DISTANCE WILL DETERMINE THE USE OF THE AGGREGATE VENDOR.

EMULSION THAT FAIL TO PERFORM SATISFACTORILY IN THE FIELD WITH PAVING EQUIPMENT AND WITH THE AGGREGATE SHALL BE IMMEDIATELY REPORTED TO THE INSPECTOR. ALL CHIP SEAL APPLICATIONS ON ALL ROADS IN THIS CONTRACT SHALL BE ROLLED TO PROPER COMPACTION AS DIRECTED BY THE ENGINEER. CONTRACTORS SHALL ALWAYS USE PNEUMATIC TIRED ROLLERS.

THE PROJECT INSPECTOR MUST BE ON-SITE BEFORE ANY WORK COMMENCES. DELIVERY TICKETS OR SLIPS FOR EVERY LOAD OF STONE AND ASPHALT DELIVERED AND/OR USED AT THE WORK SITE SHALL BE GIVEN TO THE INSPECTOR. SUCH DELIVERY TICKETS WILL BE USED TO VERIFY THE WORK PERFORMED BY THE CONTRACTOR AND PAY THE CONTRACTOR FOR HIS APPLICATION OF THE COLD MIX MATERIAL.

CHIP SEAL BID ITEMS

ITEM SPECIAL-MISC.: EMULSION (AE-90 OR MWS-90)

SHALL INCLUDE THE PRICE OF MATERIAL, LABOR, AND EQUIPMENT TO SUPPLY AND PLACE MIX LIQUID IN THE PER GALLON UNIT BID PRICE.

ITEM SPECIAL-MISC.: No. 8 LIMESTONE

SHALL INCLUDE THE PRICE OF MATERIAL, LABOR, AND EQUIPMENT TO SUPPLY AND PLACE THE LIMESTONE IN THE PER TON UNIT BID PRICE.

UTILITIES

THERE ARE NO UNDERGROUND UTILITIES SHOWN ON THIS PLAN. THE NATURE OF THE WORK REQUIRED BY THIS PROJECT WILL NOT AFFECT ANY KNOWN UNDERGROUND UTILITIES THAT EXIST UNDER OR ADJACENT TO THE WORK AREA.

CONSTRUCTION NOTIFICATION

THE CONTRACTOR WILL ADVISE THE PROJECT ENGINEER A MINIMUM OF TWENTY-ONE (21) DAYS PRIOR TO THE FOLLOWING: THE START OF CONSTRUCTION ACTIVITIES, LANE RESTRICTIONS, LANE CLOSURES, AND/OR ROAD CLOSURES.

ROAD CLOSED/MAINTENANCE OF TRAFFIC

DUE TO THE NATURE OF "FULL-WIDTH PAVING", THE CONTRACTOR MAY CLOSE THE ROAD BUT MUST ALLOW ACCESS FOR EMERGENCY VEHICLES AND LOCAL RESIDENTS AS NEEDED.

ITEM 614 - MAINTAINING TRAFFIC

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 AND 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.

THE CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN STANDARD 48" x 30" - "ROAD CLOSED" SIGNS, SIGN SUPPORTS, BARRICADES, GATES, AND LIGHTS, AS DETAILED IN STANDARD CONSTRUCTION DRAWING MT-101.60 DURING PERIODS IN WHICH THE AFFECTED ROADS ARE CLOSED TO TRAFFIC.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CMS 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 ITEM 614, MAINTAINING TRAFFIC.

PAVEMENT CALCULATIONS

LOCATION	ROUTE	ROAD NAME	LOG POINT TO LOG POINT		LENGTH L MILES	LENGTH L FT	AVERAGE WIDTH W FT	SURFACE AREA A A=L x W SY	AREA BY COMPUTER SY	#57 (150#/SY)	EMULSION (MC800) (10 GAL/TON)	#9 (10#/SY)	#8 (23#/SY)	EMULSION (AE-90 OR MWS-90) (0.4 GAL/SY)
			MILE	MILE						TON	GAL	TON	TON	GAL
MOTOR PAVE														
1	73	Wolfe Bennett Rd	0.00	3.52	3.52	18586	18	37171		2788	27878	186		
From CR 1 to 15681 Wolfe Bennett Rd														
CHIP SEAL														
1	73	Wolfe Bennett Rd	0.00	5.01	5.01	26453	18	52906					608	21162
From CR 1 to Nelsonville Corp Limits														
TOTALS CARRIED TO GENERAL SUMMARY										2788	27878	186	608	21162

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SHEET NUM.											PART.		ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
		2									01/NFA/ PV							
PAVEMENT																		
		2,788									2,788	SPECIAL	69098800	2,788	TON	MISC.:No. 57 LESTONE	2	
		186									186	SPECIAL	69098800	186	TON	MISC.:No. 9 LESTONE	2	
		27,878									27,878	SPECIAL	69098900	27,878	GAL	MISC.:EMULSION (MC800)	2	
		608									608	SPECIAL	69098800	608	TON	MISC.:No. 8 LESTONE	2	
		21,162									21,162	SPECIAL	69098900	21,162	GAL	MISC.:EMULSION (AE-90 OR MWS-90)	2	
INCIDENTALS																		
		LS									LS	614	11000	LS	MAINTAINING TRAFFIC		2	
											LS	624	10000	LS	MOBILIZATION			

GENERAL SUMMARY

ATH-CR73-0.00

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