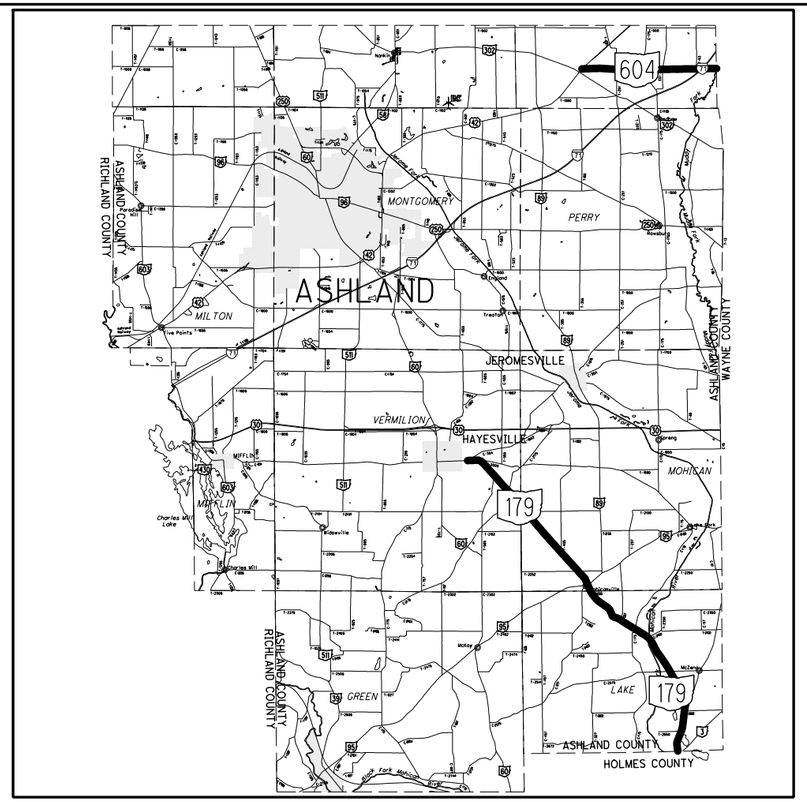


LOCATION MAP (SEE SHEET 2)

LATITUDE: N 40° 55′ 32″ LONGITUDE: W 82° 3′ 22″

SCALE IN MILES

0 1 2 3 4

N

PORTION TO BE IMPROVED
INTERSTATE & DIVIDED HIGHWAY
UNDIVIDED STATE & FEDERAL ROUTES
OTHER ROADS

DESIGN DESIGNATION

SEE SHEET 4.

DESIGN EXCEPTIONS

NONE

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

ASD-179-0.00
ASD-604-0.00

JACKSON TOWNSHIP
LAKE TOWNSHIP
MOHICAN TOWNSHIP
VERMILLION TOWNSHIP

ASHLAND COUNTY

INDEX OF SHEETS:

TITLE	1
PROJECT LOCATION MAP	2
STRAIGHT LINE DIAGRAM	3
DESIGN DESIGNATION	4
TYPICAL SECTIONS AND PAVEMENT DATA	5
GENERAL NOTES	6-7
TRAFFIC CONTROL FOR POST CHIP SEAL OPERATIONS	8
GENERAL SUMMARY	9
PAVEMENT MARKING/RPM SUB-SUMMARY	10

PROJECT DESCRIPTION

THIS PROJECT IS 13.10 MILES IN LENGTH AND WILL INCLUDE PAVEMENT REPAIR, CHIP SEALING WITH FOG SEAL, AND PAVEMENT MARKINGS.

PROJECT EARTH DISTURBED AREA = N/A (MAINTENANCE PROJECT)
ESTIMATED CONTRACTOR EARTH DISTRUBED AREA = N/A (MAINTENANCE PROJECT)
NOTICE OF INTENT EARTH DISTURBED AREA = N/A (MAINTENANCE PROJECT)

2013 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 NOT 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.

APPROVED
DATE 3-30-15 DISTRICT DEPUTY DIRECTOR

APPROVED
DATE _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

ROADWAY ENGINEERS SEAL:

STATE OF OHIO
CRAIG A. DEVORE
E-70370
REGISTERED
PROFESSIONAL ENGINEER

SIGNED:
DATE: 3-30-2015

STANDARD CONSTRUCTION DRAWINGS

BP-3.1	7/18/14	MT-97.10	7/18/14			
BP-4.1	7/19/13	MT-97.12	7/18/14			
		MT-99.20	7/19/13			
DM-4.3	7/19/13	MT-101.90	7/18/14			
DM-4.4	7/20/12	MT-105.10	7/19/13			
TC-41.20	10/18/13					
TC-42.20	10/18/13					
TC-52.10	10/18/13					
TC-52.20	7/18/14					
TC-65.10	1/17/14					
TC-65.11	7/18/14					
TC-71.10	1/17/14					

SUPPLEMENTAL SPECIFICATIONS

800	04/17/15
832	01/17/14

SPECIAL PROVISIONS

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 PROTECTIVE SERVICE CALL: 1-800-925-0988

PLANS PREPARED BY:

ODOT DISTRICT THREE
PLANNING & ENGINEERING DEPT.

FEDERAL PROJECT NO. E150223

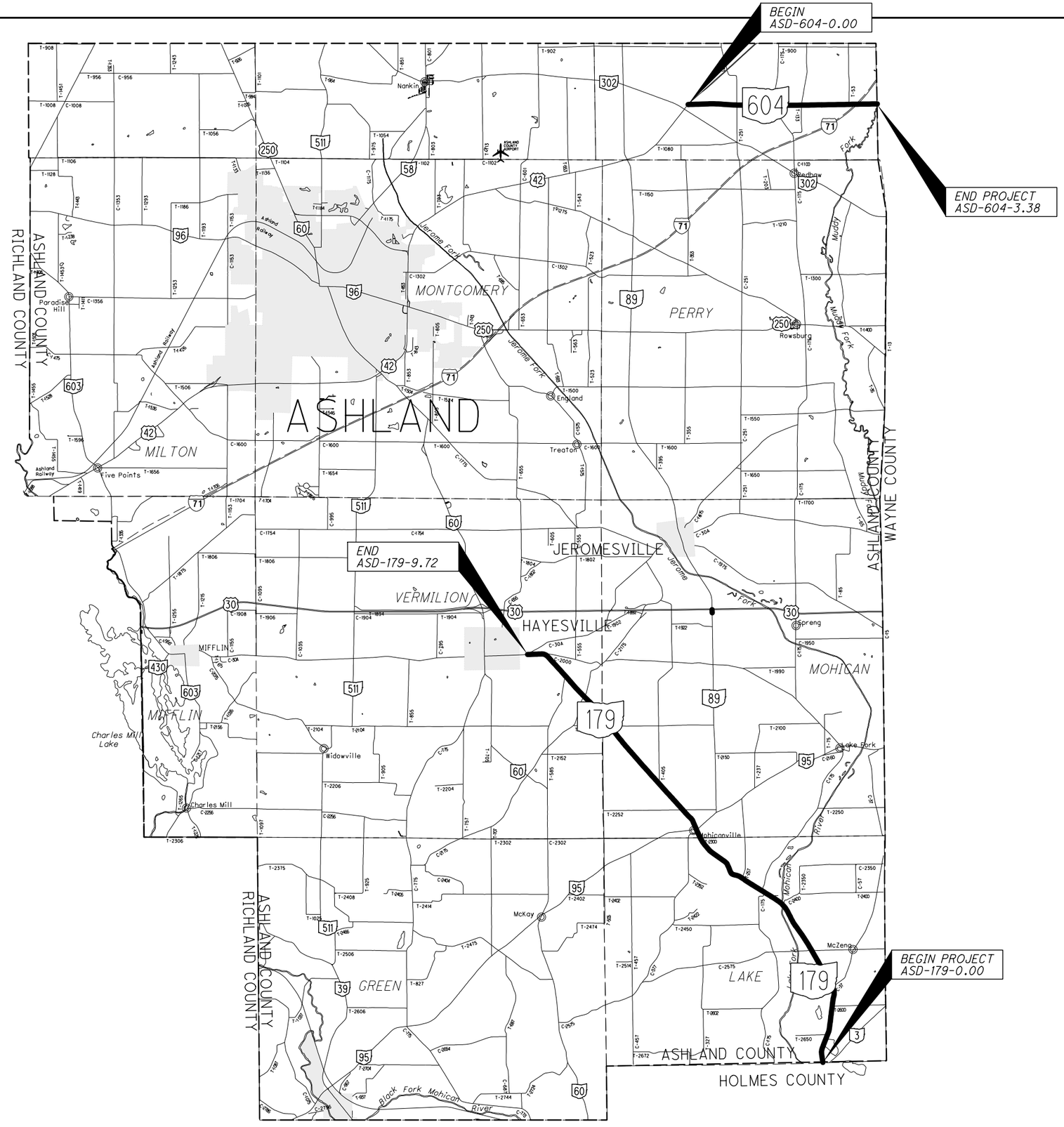
PID NO. 86699

CONSTRUCTION PROJECT NO.

RAILROAD INVOLVEMENT NONE

ASD-179-0.00
ASD-604-0.00

DESIGN FILE: I:\projects\86699\roadway\sheets\86699GT001.dgn MODELNAME: Sheet
WORKSTATION: tdevore DATE: 5/28/2015



CALCULATED GTS
CHECKED CAD

PROJECT LOCATION MAP

ASD-179-0.00
ASD-604-0.00

DESIGN FILE:i:\projects\86699\roadway\sheets\86699GT001.dgn MODELNAME:Sheet
WORKSTATION:tdevore DATE:5/28/2015

ASD 179 0.00 TO 9.72

BEGIN ASD 179 SLM 0.00

	SR 179	
LAKE TWP RD 2650 SLM 0.526		
MILE POST 1		SLM 0.996
LAKE TWP RD 2600 SLM 1.043		
ASHLAND CO RD 37 SLM 1.342		
BRIDGE		SLM 1.832
MILE POST 2		SLM 1.997
ASHLAND CO RD 2400 SLM 3.116		
ASHLAND CO RD 2400 SLM 3.139		
BRIDGE		SLM 3.143
LAKE TWP RD 2390 SLM 3.411		
ASHLAND CNTY RD 175 SLM 3.574		ASHLAND CNTY RD 175 SLM 3.574
BRIDGE		SLM 3.630
MILE POST 4		SLM 3.999
LAKE TWP RD 257 SLM 4.012		
BRIDGE		SLM 4.738
MILE POST 5		SLM 4.981
LAKE TWP RD 2300 SLM 5.091		
		ASHLAND CNTY RD 377 SLM 5.189
SR 95 SLM 5.259		SR 95 SLM 5.259
MOHICAN TWP RD 2252 SLM 5.685		MOHICAN TWP RD 2252 SLM 5.685
MILE POST 6		SLM 5.899
MOHICAN TWP RD 405 SLM 6.310		
MILE POST 7		SLM 6.870
MOHICAN TWP RD 2102 SLM 7.670		MOHICAN TWP RD 2102 SLM 7.670
MILE POST 8		SLM 7.865
ASHLAND CNTY RD 2175 SLM 8.364		ASHLAND CNTY RD 2175 SLM 8.364
BRIDGE		SLM 8.781
		VERMLN TWP RD 585 SLM 8.834
BRIDGE		SLM 8.848
MILE POST 9		SLM 8.919
		ASHLAND CNTY RD 2000 SLM 9.433
ASHLAND CNTY RD 30A SLM 9.717		

END ASD 179 SLM 9.72

ASD 604 0.00 TO 3.38

BEGIN ASD 604 SLM 0.00 AT US 42

	SR 604	
JACKSON TWP. RD 251 SLM 0.868		JACKSON TWP. RD 251 SLM 0.868
MILE POST 1		SLM 1.014
ASHLAND CNTY RD 175 SLM 1.504		ASHLAND CNTY RD 175 SLM 1.504
BRIDGE		SLM 1.562
JACKSON TWP. RD 251 SLM 0.868		JACKSON TWP. RD 251 SLM 0.868
MILE POST 2		SLM 2.047
JACKSON TWP. RD 53 SLM 2.962		JACKSON TWP. RD 53 SLM 2.962
BRIDGE I 71 (UNDERPASS)		SLM 2.962
MILE POST 3		SLM 3.025

END PROJECT ASD 604 SLM 3.38
ENTER WAYNE COUNTY

DESIGN DESIGNATION (ASD-179-0.00 TO 5.26)

CURRENT ADT (2016)	1100
DESIGN YEAR ADT (2022)	1100
DESIGN HOURLY VOLUME (2022)	100
DIRECTIONAL DISTRIBUTION	0.57
TRUCKS (24 HOUR B&C)	0.13
DESIGN SPEED	55 MPH
LEGAL SPEED	55 MPH

DESIGN FUNCTIONAL CLASSIFICATION:
URBAN MAJOR COLLECTOR

NHS PROJECT ..... NO

DESIGN EXCEPTIONS

NONE REQUIRED

DESIGN DESIGNATION (ASD-179-5.26 TO 9.72)

CURRENT ADT (2016)	1200
DESIGN YEAR ADT (2022)	1300
DESIGN HOURLY VOLUME (2022)	120
DIRECTIONAL DISTRIBUTION	0.59
TRUCKS (24 HOUR B&C)	0.14
DESIGN SPEED	55 MPH
LEGAL SPEED	55 MPH

DESIGN FUNCTIONAL CLASSIFICATION:
URBAN MAJOR COLLECTOR

NHS PROJECT ..... NO

DESIGN EXCEPTIONS

NONE REQUIRED

DESIGN DESIGNATION (ASD-604-0.00 TO 3.38)

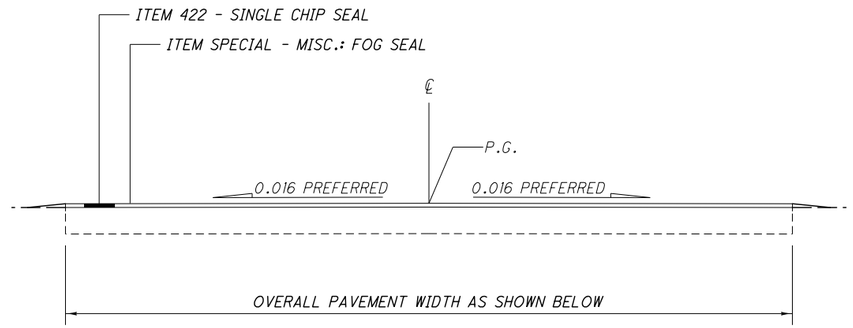
CURRENT ADT (2016)	400
DESIGN YEAR ADT (2022)	460
DESIGN HOURLY VOLUME (2022)	60
DIRECTIONAL DISTRIBUTION	0.70
TRUCKS (24 HOUR B&C)	0.05
DESIGN SPEED	55 MPH
LEGAL SPEED	55 MPH

DESIGN FUNCTIONAL CLASSIFICATION:
URBAN MAJOR COLLECTOR

NHS PROJECT ..... NO

DESIGN EXCEPTIONS

NONE REQUIRED



TYPICAL 1

ASD-179-0.00 TO 9.72
ASD-604-0.00 TO 3.38

FUNDING	COUNTY	ROUTE	LOG POINT TO LOG POINT		LENGTH		WIDTH FEET AVG.	TYPICAL	PAVEMENT AREA	422	SPECIAL	897	897	407	442	611	611				209	617	617		
					MILE	FEET				SINGLE CHIP SEAL	MISC.: FOG SEAL @ 0.15 GAL/SY	PATCHING PLANED SURFACE	PAVEMENT PLANING, ASPHALT CONCRETE, CLASS A	TACK COAT @.08 GAL/SY	ASPHALT CONCRETE SURFACE COURSE, 9.5 MM, TYPE A (448), AS PER PLAN	MANHOLE ADJUSTED TO GRADE	CATCH BASIN ADJUSTED TO GRADE	AGGREGATE SHOULDER WIDTH		AGGREGATE SHOULDER AREA	LINEAR GRADING	COMPACTED AGGREGATE	SHOULDER PREPARATION		
																						1.5 INCH			
													1 INCH		1 INCH			SL	SR			AVG. THICKNESS			
			STRAIGHT LINE MILEAGE						SQ.YD	SQ.YD	GAL	SQ. YD	SQ.YD	GAL	CU. YD	EACH	EACH	FT	FT	SQ. YD	MILE	CU. YD	SQ. YD		
01	ASD	604	0.00	3.38	3.38	17846	24.0	1	47,590	47,590	7,139														
02	ASD	179	0.00	9.72	9.72	51322	22.0	1	125,453	125,453	18,818														
01/STR/PV					SUB-TOTAL				47,590	47,590	7,139														
02/NFA/PV					SUB-TOTAL				125,453	125,453	18,818														
		TOTALS			**13.10**	**69168**			**173043**	**173043**	**25957**														

CALCULATED GTS
CHECKED CAD

TYPICAL SECTIONS AND PAVEMENT DATA

ASD-179-0.00
ASD-604-0.00

DESIGN FILE:i:\projects\86699\roadway\sheets\86699GY001.dgn MODELNAME: Design
WORKSTATION:devore DATE:5/28/2015

UTILITIES

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS.

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

CABLE
ARMSTRONG UTILITIES
1215 CLAREMONT AVENUE
ASHLAND, OHIO 44805
419-289-0161

CABLE
TIME WARNER CABLE
530 SOUTH MAIN STREET, SUITE 1751
AKRON, OH 44311
330-630-7950

STATE
ODOT DISTRICT 3 TRAFFIC
906 CLARK AVENUE
ASHLAND, OHIO 44805
419-207-7045

GAS
DOMINION EAST OHIO
1000 WEST WILBETH ROAD
AKRON, OHIO 44134
330-798-7164

GAS
GATHERCO INC.
300 TRACY BRIDGE RD
ORRVILLE OH, 44667
330-498-9553

GAS
SPELLMAN PIPELINE
9081 STATE ROUTE 250
STRASBURG, OHIO
1-800-848-5589

GAS
MARATHON ASHLAND PIPELINE
539 SOUTH MAIN STREET, RM 193M
FINDLAY, OHIO 45840
419-421-2211

TELECOM
AT&T OF OHIO
50 WEST BOWERY STREET
AKRON, OHIO 44308
330-384-8057

GAS
COLUMBIA GAS OF OHIO
1800 BROAD AVENUE
FINDLAY, OHIO 45840
419-427-3216

TELECOM
CENTURYLINK
2025 AKRON ROAD
WOOSTER, OHIO 44691
330-262-1128

TELECOM
FRONTIER COMMUNICATIONS
6223 NORWALK ROAD
MEDINA, OHIO 44256
330-722-9586

ELECTRIC
AMERICAN ELECTRIC POWER
301 CLEVELAND AVENUE SW
CANTON, OHIO 44701
330-438-7061

ELECTRIC
HOLMES-WAYNE ELECTRIC CO-OP
6060 ST. RT. 83
MILLERSBURG, OHIO 44654
330-674-1055

ELECTRIC
OHIO EDISON COMPANY
1910 WEST MARKET STREET, BLDG #1
AKRON, OHIO 44313
330-384-4954

ELECTRIC
FIRELANDS ELECTRIC
ONE ENERGY PLACE
NEW LONDON, OHIO 44851
419-929-1571

THE AFOREMENTIONED UTILITY COMPANIES AND AGENCIES HAVE VARIOUS FACILITIES IN THE AREA THAT WILL REMAIN IN PLACE DURING CONSTRUCTION.

EXTREME CAUTION SHOULD BE EXERCISED IN AREAS WITH UTILITIES. SECTIONS 105.07 AND 107.16 OF THE DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND MATERIALS SPECIFICATIONS REQUIRE, AMONG OTHER THINGS, THAT THE CONTRACTOR COOPERATE WITH ALL UTILITIES LOCATED WITHIN THE LIMITS OF THIS CONSTRUCTION PROJECT AND TAKE RESPONSIBILITY FOR THE PROTECTION OF THE UTILITY PROPERTY AND SERVICES.

ROUTINE MAINTENANCE

BETWEEN THE TIME THAT BIDS ARE TAKEN AND THE START OF CONSTRUCTION, THE MAINTAINING AGENCY MAY ENTER UPON THE PROJECT AND PERFORM ROUTINE MAINTENANCE SUCH AS CRACK SEALING, PATCHING, AND BERM AND SHOULDER REPAIR. THE EFFECTS, IF ANY, OF THE PERFORMANCE OF ROUTINE MAINTENANCE SHALL BE CONSIDERED AS INHERENT IN WORK OF THE CHARACTER PROVIDED FOR IN THE PLAN AND THE RESULTING CONDITIONS SHALL NOT BE CONSIDERED AS DIFFERING MATERIALLY FROM THOSE EXISTING AT THE TIME BIDS WERE TAKEN.

CONSTRUCTION NOTIFICATION

THE CONTRACTOR SHALL ADVISE THE PROJECT ENGINEER A MINIMUM OF FOURTEEN (14) DAYS PRIOR TO THE FOLLOWING: THE START OF CONSTRUCTION ACTIVITIES, LANE RESTRICTIONS, LANE CLOSURES, AND OR ROAD CLOSURES. THE PROJECT ENGINEER WILL FORWARD THIS INFORMATION TO THE FOLLOWING:

DISTRICT PUBLIC INFORMATION OFFICER (PIO) BY FAX AT (614) 887-4305 OR EMAIL AT D03.PIO@DOT.STATE.OH.US

DISTRICT PERMIT SECTION BY FAX AT (614) 887-4318 OR EMAIL AT LOUIS.TUMBLIN@DOT.STATE.OH.US

CENTRAL OFFICE SPECIAL HAUL PERMITS SECTION BY FAX AT (614) 728-4099 OR EMAIL AT HAULING.PERMITS@DOT.STATE.OH.US

THE PIO WILL, IN TURN, NOTIFY THE PUBLIC, THE LOCAL EMERGENCY SERVICES, AFFECTED SCHOOLS AND BUSINESSES, AND ANY OTHER IMPACTED LOCAL PUBLIC AGENCY OF ANY OF THE ABOVE MENTIONED ITEMS, VIA MEDIA SOURCES.

CONTRACTOR REQUIREMENTS

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 CHIP SEAL AND ASPHALT CONCRETE COURSE

THE CONTRACTOR SHALL AVOID PLACING CHIP SEAL ON ANY MONUMENT BOXES, VALVE BOXES, MANHOLES, ETC. THAT EXIST IN THE PAVEMENT SURFACE.

THE CONTRACTOR IS INSTRUCTED TO OMIT CHIP SEALING ON STRUCTURES WHICH HAVE CONCRETE DECKS OR CONCRETE OVERLAYS.

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (FOR CHIP SEAL PROJECTS)

THESE ITEMS OF WORK SHALL CONSIST OF THE REMOVAL OF THE EXISTING PAVEMENT OR PAVED BERM WHICH MAY BE ASPHALT, BRICK, CONCRETE, OR A COMBINATION OF EACH, IN AREAS OF EXISTING PAVEMENT FAILURE.

PAVEMENT REPAIRS SHALL BE PERFORMED BEFORE PLACEMENT OF THE CHIP SEAL. THE DEPTH OF REMOVAL SHALL BE SUFFICIENT TO REMOVE ALL DETERIORATED PAVEMENT WITH A MAXIMUM DEPTH OF 4" AND AN AVERAGE DEPTH OF 3" AND AN AVERAGE WIDTH OF 3 FEET FOR ESTIMATING PURPOSES. THE MATERIALS REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH 105.16 AND 105.17.

THE CONTRACTOR SHALL BE CAPABLE OF PERFORMING PAVEMENT REPAIRS 2 FEET WIDE.

REPLACEMENT MATERIAL SHALL BE ITEM 301, ITEM 448 TYPE 2, OR ITEM 442 19MM MATERIAL AND SHALL BE PLACED AND COMPACTED TO FINISH FLUSH WITH THE ADJACENT PAVEMENT SURFACE. ITEM 301 ASPHALT CONCRETE, PG64-22 CAN BE USED WHEN THE DEPTH OF THE REPAIR IS BETWEEN 3" AND 12" WITH A MAXIMUM PAVEMENT LIFT OF 6". ITEM 448 TYPE 2 OR ITEM 442 19MM CAN BE USED WHEN THE DEPTH OF THE REPAIR IS BETWEEN 0" AND 5" WITH A MAXIMUM PAVEMENT LIFT OF 3". THE CONTRACTOR HAS THE OPTION OF USING EITHER ITEM 301, ITEM 448 TYPE 2, OR ITEM 442 19MM MATERIAL WHEN THE PAVEMENT REPAIR IS BETWEEN 3" AND 5" DEEP. ITEM 448 TYPE 2 OR ITEM 442 19MM MATERIAL SHALL BE PG64-22 FOR MEDIUM MIX DESIGN PAVEMENTS PG64-28 FOR HEAVY MIX DESIGN PAVEMENTS. BEFORE THE CHIP SEAL IS PLACED, THE SURFACE OF THE COMPLETED PAVEMENT REPAIR AREAS SHALL BE CLEANED AND COATED PER CMS 401.14, USING AN ASPHALT MATERIAL COMPLYING WITH 407.02 AND APPLIED AT A 0.03 GALLON/SQUARE YARD RATE.

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE PAVEMENT REPAIRS, INCLUDING THE TACK COAT. FOR PAYMENT PURPOSES ITEM 251 PARTIAL DEPTH PAVEMENT REPAIR IS TO BE A MAXIMUM OF 4" DEEP. PAYMENT WILL BE MADE AT THE UNIT BID PRICE PER CUBIC YARD, (BY TICKET WEIGHT CONVERSION), OF ITEM 251 PARTIAL DEPTH PAVEMENT REPAIR. THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER:

ITEM 251 PARTIAL DEPTH PAVEMENT REPAIR = 723 CY

01/STR/PV: 325 CY
02/NFA/PV: 398 CY

ITEM 642 - FINAL PAVEMENT MARKINGS

IN ADDITION TO THE PAVEMENT MARKINGS PLACED ON THE FOG SEAL IMMEDIATELY AFTER COMPLETING THE FOG SEAL WORK, AN ADDITIONAL APPLICATION OF THE FINAL PAVEMENT MARKINGS HAS BEEN PROVIDED AND SHALL BE PLACED NO SOONER THAN 30 CALENDAR DAYS AND NO MORE THAN 45 CALENDAR DAYS AFTER THE FOG SEAL WORK HAS BEEN COMPLETED.

ITEM SPECIAL - MISC.: FOG SEAL

DESCRIPTION: THIS WORK CONSISTS OF PREPARING AND FOG SEALING A CHIP SEALED SURFACE WITH A DILUTED NTSS-1HM TRACKLESS TACK PRODUCED BY BLACKLIDGE EMULSIONS, INC. MEET ALL REQUIREMENTS OF CONSTRUCTION AND MATERIAL SPECIFICATIONS ITEM 407 TACK COAT EXCEPT AS NOTED BELOW.

MATERIAL: CONFORM TO THE FOLLOWING TYPICAL PHYSICAL PROPERTIES BEFORE DILUTION:

PARAMETER	TEST METHOD	MIN.	MAX.
SAYBOLT FUROL VISCOSITY, SFS @ 25°C	ASTM D88	15	100
STORAGE STABILITY, 24 HRS, %	ASTM D244	--	1
STORAGE STABILITY, 5 DAYS, %	ASTM D244	--	5
RESIDUE BY DISTILLATION, %	ASTM D244	50	--
OIL DISTILLATE, %	ASTM D244	--	1
SIEVE TEST, %	ASTM D244	--	0.3
TEST ON RESIDUE			
PENETRATION, @ 25°C,	ASTM D5	--	20
SOFTENING POINT RANGE DEG C	ASTM D36	65	--
SOLUBILITY, %	ASTM D2042	97.5	--
ORIGINAL BINDER DSR @ 82°C G*/SIN Δ,10 RAD/SEC	AASHTO T111	1	--

NOTE: PRODUCT SHOULD NOT CONTAIN FILLER SUCH AS CLAY, ETC.
KEEP FROM FREEZING.
SUPPLY CERTIFIED TEST DATA TO THE ENGINEER SHOWING THE MATERIAL SUPPLIED WAS TESTED FOR AND MEETS THE ABOVE PROPERTIES.

EQUIPMENT: ALL REQUIREMENTS OF 407.03 SHALL APPLY. SEE MANUFACTURER'S REPRESENTATIVE FOR CORRECT DISTRIBUTOR SETTINGS. THOROUGHLY CLEAN ALL EQUIPMENT IF CATIONIC EMULSION WAS PREVIOUSLY USED.

WEATHER LIMITATIONS: ALL REQUIREMENTS OF 407.04 APPLY.

PREPARATION OF SURFACE: ENSURE THAT THE SURFACE HAS BEEN SWEPT JUST BEFORE APPLICATION AND IS THOROUGHLY CLEAN, DRY AND FREE OF LOOSE CHIPS. REMOVE DIRT, DUST AND LOOSE CHIPS CLEANED FROM THE SURFACE AND DISPOSE OF IT AS THE ENGINEER DIRECTS. FOG SEAL MATERIAL SHALL NOT BE APPLIED TO A NEW CHIP SEALED SURFACE FOR A PERIOD OF TWO WEEKS AFTER CHIP SEAL INSTALLATION.

APPLICATION OF ASPHALT MATERIAL: UNIFORMLY APPLY THE ASPHALT MATERIAL WITH A DISTRIBUTOR PER THE REQUIREMENTS OF 407.06 EXCEPT AS NOTED.

IF PRODUCT IS STORED FOR AN EXTENDED PERIOD OF TIME, PRIOR TO APPLICATION, AGITATE OR GENTLY CIRCULATE THE MATERIAL.

ALL NOZZLES AND SPRAY PATTERNS SHALL BE IDENTICAL TO ONE ANOTHER ALONG THE DISTRIBUTOR SPRAY BAR. THE ANGLE OF THE NOZZLE SHOULD BE PLACED AT A 15 TO 30 DEGREE ANGLE TO THE SPRAY BAR AXIS TO MAXIMIZE OVERLAP OR AS RECOMMENDED BY THE NOZZLE MANUFACTURER. CONTACT THE MANUFACTURER'S REPRESENTATIVE FOR REQUIRED SPRAY NOZZLE SIZE, AND DISTRIBUTOR AND NOZZLE SETTINGS.

THE POLYMER FOG SEAL SHOULD BE APPLIED AT A RATE OF 0.15 GALLONS PER SQUARE YARD. RECOMMENDED APPLICATION TEMPERATURE IS 160°F TO 180°F. DO NOT EXCEED 180°F.

THE CONTRACTOR SHALL DILUTE THE TRACKLESS TACK COAT PER THE MANUFACTURER'S RECOMMENDATION AT A MAXIMUM RATE OF 2 PARTS TRACKLESS TACK COAT TO 1 PART WATER.

THE ENGINEER AND MANUFACTURER'S REPRESENTATIVE WILL APPROVE RATE OF APPLICATION, TEMPERATURE, DISTRIBUTOR SETTINGS, AND AREAS TO BE TREATED BEFORE APPLICATION OF THE POLYMER FOG SEAL. THE ENGINEER WILL DETERMINE THE ACTUAL APPLICATION RATE IN GALLONS PER SQUARE YARD BY A CHECK ON THE PROJECT.

THE APPLICATION IS CONSIDERED SATISFACTORY WHEN THE MATERIAL IS APPLIED UNIFORMLY WITH NO VISIBLE EVIDENCE OF STREAKING OR RIDGING AND THE APPLICATION RATE IS ±10% OF THE SPECIFIED RATE.

THE FOG SEAL MATERIAL SHALL BE OVERLAPPED BY 2" TO 6" AT ALL ADJACENT SPRAY PASSES.

TRAFFIC SHALL BE ALLOWED ON THE FOG SEAL MATERIAL AFTER ONE HOUR OR LONGER AS DIRECTED BY THE PROJECT ENGINEER'S ON-SITE REPRESENTATIVE AFTER THE MATERIAL HAS BEEN DETERMINED TO BE TACK FREE AND SET REASONABLY FIRMLY.

APPLY WORK ZONE PAVEMENT MARKINGS AFTER CURE. PERMANENT PAVEMENT MARKINGS MAY BE APPLIED ON THE MATERIAL AFTER 24 HOURS. THERMOPLASTIC OR NON-WATER BASED FINAL PAVEMENT MARKINGS SHALL BE APPLIED NOT SOONER THAN TWO WEEKS AFTER FOG SEAL MATERIAL APPLICATION.

METHOD OF MEASUREMENT: THE DEPARTMENT WILL MEASURE FOG SEAL BY THE NUMBER OF GALLONS OF DILUTED TRACKLESS TACK COAT APPLIED.

BASIS OF PAYMENT: THE DEPARTMENT WILL PAY FOR ACCEPTED QUANTITIES AT THE CONTRACT UNIT PRICE AS FOLLOWS:

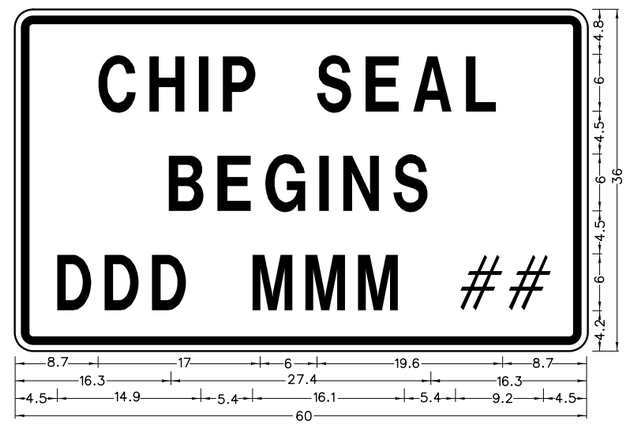
ITEM	UNIT	DESCRIPTION
SPECIAL	GALLON	MISC.: FOG SEAL

ITEM 614 - WORK ZONE MARKING SIGN, AS PER PLAN, ADVANCE NOTICE

THE CHIP SEAL BEGINS SIGNS, AS DETAILED IN THESE PLANS, SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED START OF THE CHIP SEAL OPERATIONS. THE SIGNS SHALL BE ERECTED ON THE RIGHT HAND SIDE OF THE ROADWAY AT THE PROJECT LIMITS OF EACH ROADWAY BEING CHIP SEALED. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. THE SIGN DETAILS FOR THIS BLACK ON ORANGE SIGN WILL BE PROVIDED AT THE PRECONSTRUCTION MEETING. BELOW IS AN EXAMPLE OF THE LAYOUT OF THE SIGN. START DATE TO BE PROVIDED BY THE CONTRACTOR.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DETERMINED BY THE ENGINEER FOR THIS ADVANCE NOTIFICATION:

ITEM 614 - WORK ZONE MARKING SIGN, APP, ADVANCE NOTICE = 10 EACH



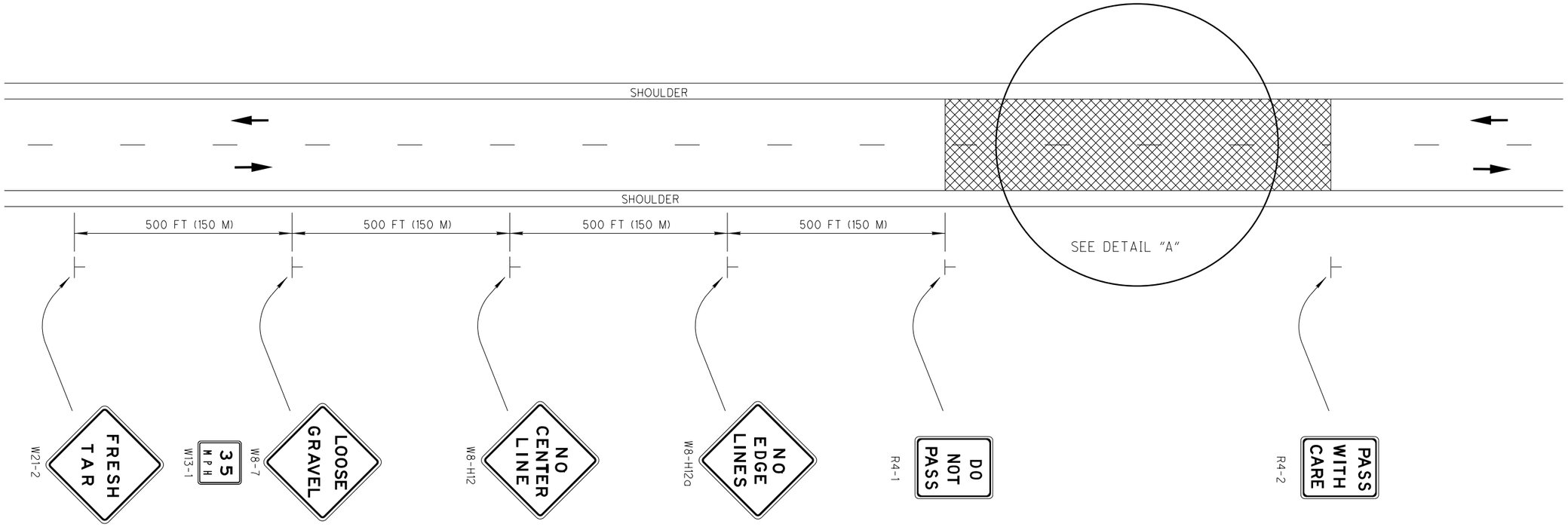
ITEM 614 - MAINTAINING TRAFFIC

A MINIMUM OF ONE (1) LANE OF TRAFFIC SHALL BE MAINTAINED AT ALL TIMES USING FLAGGERS.

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, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

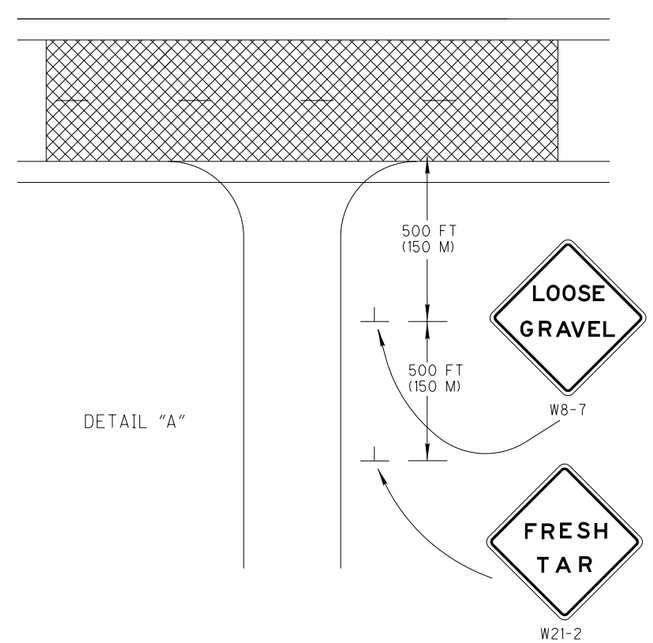
INTERIM COMPLETION DATE FOR CHIP SEAL

AS PER THE REQUIREMENTS OF CMS 422.04, SEPTEMBER 1, 2015 IS SET AS THE INTERIM COMPLETION DATE FOR ALL CHIP SEAL WORK. FOR EACH CALENDAR DAY BEYOND THE INTERIM COMPLETION DATE THAT THE WORK IS NOT COMPLETED, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE FEE OF $1000 PER DAY.



GENERAL NOTES:

1. The suggested minimum sign spacing is 200 feet (60 m), with 500 feet (150 m) spacing desirable.
2. The NO CENTER LINE (W8-H12), NO EDGE LINE (W8-H12a), and DO NOT PASS (R4-1) signs should be repeated every 2 miles per CMS 614.04.
3. The PASS WITH CARE (R4-2) sign, shown at the termination point of the chip seal activitiy, shall not be installed if this point is located in a No Passing zone or within 500 feet (150 m) of the next No Passing zone.
4. Repeat the LOOSE GRAVEL (W8-7) with an Advisory Speed Plaque (W13-1) every 1/2 mile per CMS 422.09.
5. Remove the NO CENTER LINE (W8-H12) and NO EDGE LINES (W8-H12a) signs after placing final markings.
6. Repeat sign layout in opposite direction.
7. Temporary traffic control for chip seal operations is not shown.
8. For signing of side roads intersecting the work area, see Detail "A".
9. All signs to be installed in Item 614, Lump, Maintaining Traffic for payment



LEGEND

AREA OF CHIP SEAL OPERATION

DIRECTION OF TRAVEL

DESIGN FILE:i:\projects\86699\roadway\sheets\86699TD001.dgn MODELNAME: Default
WORKSTATION:cdevore DATE:5/28/2015

OFFICE OF TRAFFIC ENGINEERING

DESIGNED GTS | REVIEWED CAD

REVISION DATE --/--/-- | CHECKED

PIS NUMBER ------

PLAN INSERT SHEET

TRAFFIC CONTROL FOR POST CHIP SEAL OPERATIONS

ASD-179-0.00
ASD-604-0.00

1 / 1

8 / 10

SHEET NUMBER							PARTICIPATION				ALT (X)	ITEM	ITEM EXT	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.
5		6	7		10		01/STR/ PV	02/NFA/ PV									
																PAVEMENT	
		723					325	398				251	01010	723	CY	**PARTIAL DEPTH PAVEMENT REPAIR**	
173043							47590	125453				422	10000	173043	SY	**SINGLE CHIP SEAL**	
25957							7139	18818				SPECIAL	69098900	25957	GAL	**MISC.:FOG SEAL**	7
																TRAFFIC CONTROL	
					1016		211	805				621	00100	1016	EACH	**RPM**	
					52.4		13.52	38.88				642	00100	52.4	MILE	**EDGE LINE, 4", TYPE 1**	
					26.2		6.76	19.44				642	00300	26.2	MILE	**CENTER LINE, TYPE 1**	
					411		35	376				642	00500	411	FT	**STOP LINE, TYPE 1**	
																MAINTENANCE OF TRAFFIC	
			10				6	4				614	12461	10	EACH	**WORK ZONE MARKING SIGN, AS PER PLAN, ADVANCED NOTICE**	7
					13.1		3.38	9.72				614	21500	13.1	MILE	**WORK ZONE CENTER LINE, CLASS II, 642 PAINT**	
					13.1		3.38	9.72				614	21550	13.1	MILE	**WORK ZONE CENTER LINE, CLASS III, 642 PAINT**	
					60			60				614	26200	60	FT	**WORK ZONE STOP LINE, CLASS I, 642 PAINT**	
																INCIDENTALS	
							LS	LS				614	11000	LS		**MAINTAINING TRAFFIC**	
							LS	LS				624	10000	LS		**MOBILIZATION**	

CALCULATED GTS
CHECKED CAD

GENERAL SUMMARY

ASD-179-0.00
ASD-604-0.00

DESIGN FILE:i:\projects\86699\roadway\sheets\86699GG001.dgn MODELNAME: Design
WORKSTATION:devore DATE:5/28/2015

AUXILIARY & LONG LINE MARKINGS

FUNDING	ROUTE	COUNTY	STATION / SLM FROM	STATION / SLM TO	HIGHWAY MILES	614 WORK ZONE LANE LINE, CLASS I, 642 PAINT	614 WORK ZONE CENTER LINE, CLASS II, 642 PAINT	614 WORK ZONE CENTER LINE, CLASS III, 642 PAINT	614 WORK ZONE STOP LINE, CLASS I, 642 PAINT	642, TYPE 1 EDGE LINE, 4" TOTAL (PAY QUANTITY) (WHITE)	642, TYPE 1 EDGE LINE, 4" TOTAL (PAY QUANTITY) (YELLOW)	642, TYPE 1 EDGE LINE, 4" LANE LINE	642, TYPE 1 CENTER LINE SOLID LINE EQUIVALENT	642, TYPE 1 CENTER LINE TOTAL (PAY QUANTITY)	642, TYPE 1 AUXILIARY MARKINGS (740.02) CHANNELIZING LINE 8"	STOP LINE 24"	CROSSWALK LINE 12"	TRANSVERSE/ DIAGONAL LINE (WHITE) 24"	TRANSVERSE/ DIAGONAL LINE (YELLOW) 24"	ISLAND MARKING	RAILROAD SYMBOL MARKING	SCHOOL SYMBOL MARKING 72 INCH	SCHOOL SYMBOL MARKING 96 INCH	PARKING LOT STALL MARKING	LANE ARROW LEFT	LANE ARROW RIGHT	LANE ARROW THROUGH	LANE ARROW COMBINATION	WORD ON PAVEMENT "ONLY" 72 INCH	WORD ON PAVEMENT "ONLY" 96 INCH	DOTTED LINE, 4"	HANDICAP SYMBOL MARKING	SPECIAL AIR SPEED ZONE MARKING
			FROM	TO	MILE				FT			MILE			FT					SQ FT	EACH		FT	EACH						FT	EACH	
01/STR/PV	604	ASD	0.00	3.38	3.38		3.38	3.38		13.52			2.61	6.76		35																
02/NFA/PV	179	ASD	0.00	9.72	9.72		9.72	9.72	60	38.88			16.22	19.44		376																
01/STR/PV			**SUB-TOTAL**				**3.38**	**3.38**		**13.52**				**6.76**		**35**																
02/NFA/PV			**SUB-TOTAL**				**9.72**	**9.72**	**60**	**38.88**				**19.44**		**376**																
TOTALS TO GENERAL SUMMARY							**13.10**	**13.10**	**60**	**52.40**				**26.20**		**411**																

RAISED PAVEMENT MARKERS

FUNDING	ROUTE	COUNTY	STATION/SLM FROM	STATION/SLM TO	DETAIL	621 RAISED PAVEMENT MARKER REMOVED	621 RPM	PRISMATIC RETRO-REFLECTOR TYPES ONE-WAY WHITE	TWO-WAY YELLOW / YELLOW	TWO-WAY WHITE / RED	TWO-WAY YELLOW / RED	TWO-WAY BLUE / BLUE	REMARKS
						EACH							
01/STR/PV	SR 604	ASD	0.00	3.38	GAP		211		211				CONTINUOUS ROUTE TREATMENT
02/NFA/PV	SR 179	ASD	0.00	0.34	17		33	11	22				PARTIAL STOP APPROACH @ SR 3
			0.34	1.07	GAP		47	0	47				CONTINUOUS ROUTE TREATMENT
			1.07	1.97	15/16		137	0	137				4-CURVES
			1.97	4.17	GAP		146	0	146				CONTINUOUS ROUTE TREATMENT
			4.17	4.56	15		48	0	48				2-CURVES
			4.56	5.07	GAP		31	0	31				CONTINUOUS ROUTE TREATMENT
			5.07	5.47	6		54	32	22				STOP APPROACHES @ SR 95
			5.47	9.27	GAP		249	0	249				CONTINUOUS ROUTE TREATMENT
			9.27	9.72	17		60	38	22				STOP APPROACH @ CR 30A
01/STR/PV			**SUB-TOTAL**				**211**	**0**	**211**				
02/NFA/PV			**SUB-TOTAL**				**805**	**81**	**724**				
TOTALS TO GENERAL SUMMARY							**1016**						

DETAIL	DESCRIPTION
1	MULTILANE UNDIVIDED TYPICAL SPACING
2	TAPERED ACCEL. LANE
3	DECELERATION LANE
4	PARALLEL ACCEL LANE
5	MULTILANE DIVIDED/EXPRESSWAY
6	STOP APPROACH
7	2 LANE APPR. WITH TURN LANE
8	THROUGH APPROACH
9	3 LANE APPR. WITH TURN LANE
10	3 LANE DIVIDED TO 2 LANE TRANSITION
11	3 LANE UNDIVIDED TO 2 LANE TRANSITION
12	TWO LNAE NARROW BRIDGE
13	TWO WAY LEFT TURN LANE
14	ONE LANE BRIDGE
15	HORIZONTAL CURVE
16	HORIZONTAL CURVE ALT.
17	STOP APPROACH ALT.
18	FIRE HYDRANT
GAP	CENTER LINE AT 80 FT. TYP.

NOTES

1) WORK ZONE STOP LINES SHALL BE INSTALLED AT THE FOLLOWING LOCATIONS:

SR 179:

SR 95

CR 30A

2) FOR ALL WORK ZONE MARKINGS, THE 642 PAINT SHALL BE TYPE 1.

CALCULATED GTS
CHECKED CAD

PAVEMENT MARKING / RPM SUB-SUMMARY

ASD-179-0.00
ASD-604-0.00

DESIGN FILE:i:\projects\86699\roadway\sheets\86699TS001.dgn MODELNAME: Design
WORKSTATION:tdevore DATE:5/28/2015