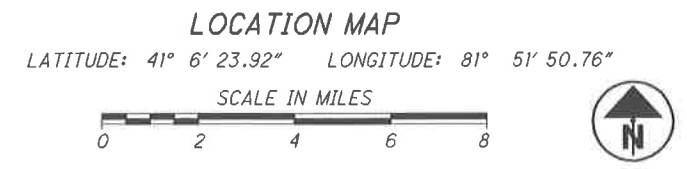
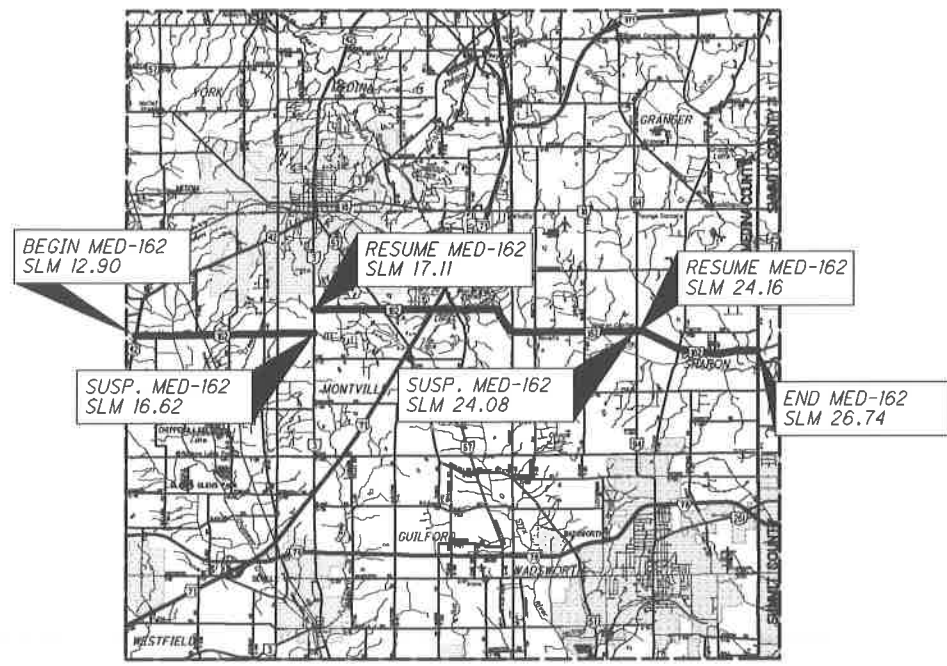


STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
**MED-162-(12.90)
(17.11)**
LAFAYETTE TOWNSHIP
MONTVILLE TOWNSHIP
SHARON TOWNSHIP
MEDINA COUNTY



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

DESIGN DESIGNATION
SEE SHEET TWO FOR DESIGN DESIGNATION

DESIGN EXCEPTIONS
NONE

INDEX OF SHEETS:

TITLE SHEET	1
SCHEMATIC & DESIGN DESIGNATION	2
TYPICAL SECTIONS	3
GENERAL NOTES	4-6
MAILBOX FACILITIES	7
GENERAL SUMMARY	8
PAVEMENT & SHOULDER DATA SHEET	9
PAVEMENT MARKING/RPM SUBSUMMARY	10
PAVEMENT MARKING DETAILS	11

PROJECT DESCRIPTION
THIS PROJECT IS 13.27 MILES IN LENGTH AND WILL INCLUDE PAVEMENT REPAIR, PLACING ITEM 424, ITEM 422, AND PAVEMENT MARKINGS.

EARTH DISTURBED AREAS
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)

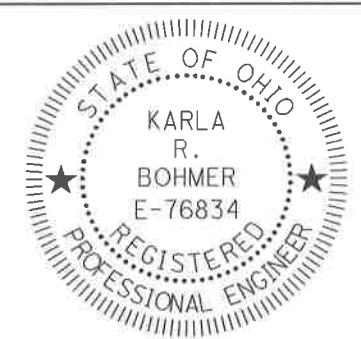
2013 SPECIFICATIONS
THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVED 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 2/8/2016 DISTRICT DEPUTY DIRECTOR

APPROVED _____
DATE _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

ENGINEERS SEAL:



SIGNED: *Karla R. Bohmer*
DATE: 2/5/16

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS		SPECIAL PROVISIONS
BP-3.1	7/18/14	TC-41.20	10/18/13	800	1/15/16	
BP-4.1	7/19/13	TC-42.20	10/18/13	830	1/17/14	
		TC-52.10	10/18/13	832	1/17/14	
DM-4.3	1/15/16	TC-52.20	7/18/14	897	1/16/15	
DM-4.4	1/15/16	TC-65.10	1/17/14			
		TC-65.11	7/18/14			
MT-97.10	7/18/14	TC-71.10	1/17/14			
MT-97.12	7/18/14					
MT-99.20	7/19/13					
MT-101.90	7/17/15					
MT-105.10	7/19/13					
RM-1.1	7/18/14					

UNDERGROUND UTILITIES
CONTACT BOTH SERVICES TWO WORKING DAYS BEFORE YOU DIG.

Call Before You Dig
1-800-362-2764
(Non-members must be called directly)

OIL & GAS PRODUCERS
UNDERGROUND PROTECTION SERVICE
1-800-925-0988

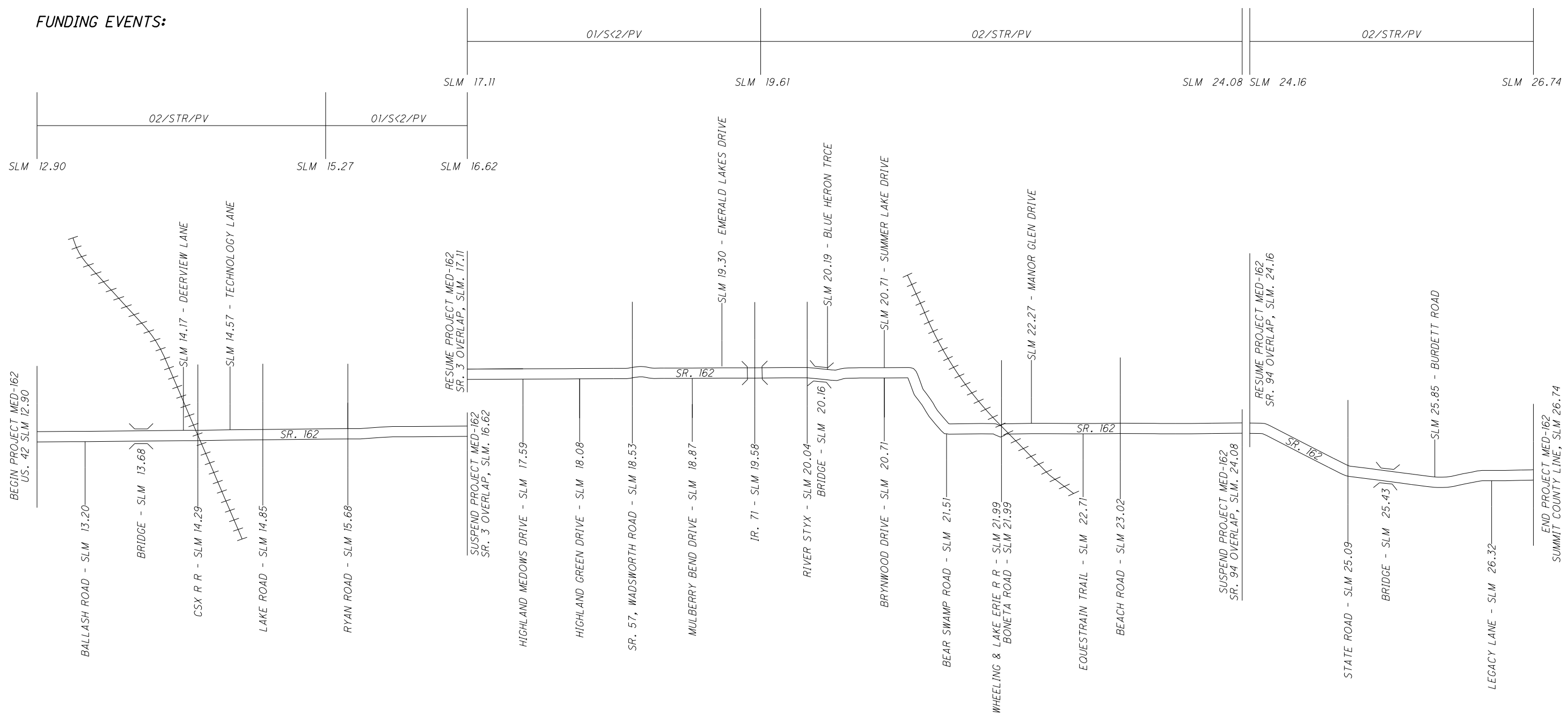
PLANS PREPARED BY:

DESIGN FILE: \\ProjectData\9704\3\Design\Roadway\Sheets\9704\3GT001.dgn
WORKSTATION: scaly DATE: 2/5/2016 MODELNAME: Sheet

FEDERAL PROJECT NO. E150744
PID NO. 97043
CONSTRUCTION PROJECT NO.
RAILROAD INVOLVEMENT CSX WHEELING & LAKE ERIE
MED-162-(12.90)
(17.11)

DESIGN FILE: \\ProjectData\97043\Design\Roadway\Sheets\97043CB001.dgn
 WORKSTATION: foster DATE: 2/8/2016 MODELNAME: Sheet

FUNDING EVENTS:



**DESIGN DESIGNATION
 MED SR. 162 12.90-14.85**

CURRENT ADT (2016)	2500
DESIGN YEAR ADT (2024)	2500
DESIGN HOURLY VOLUME (2024)	320
DIRECTIONAL DISTRIBUTION	0.55
TRUCKS (24 HOUR B&C)	0.08
DESIGN FUNCTIONAL CLASSIFICATION:	
MAJOR COLLECTOR	
NHS PROJECT	NO

DESIGN EXCEPTIONS

NONE

**SPEED LIMIT
 MED SR. 162 12.90-14.85**

DESIGN SPEED	55MPH
LEGAL SPEED	55MPH

**DESIGN DESIGNATION
 MED SR. 162 14.85-16.62**

CURRENT ADT (2016)	4200
DESIGN YEAR ADT (2024)	4500
DESIGN HOURLY VOLUME (2024)	400
DIRECTIONAL DISTRIBUTION	0.69
TRUCKS (24 HOUR B&C)	0.08
DESIGN FUNCTIONAL CLASSIFICATION:	
MAJOR COLLECTOR	
NHS PROJECT	NO

DESIGN EXCEPTIONS

NONE

**SPEED LIMIT
 MED SR. 162 14.85-16.62**

DESIGN SPEED	50MPH
LEGAL SPEED	50MPH

**DESIGN DESIGNATION
 MED SR. 162 17.11-18.53**

CURRENT ADT (2016)	3500
DESIGN YEAR ADT (2024)	3800
DESIGN HOURLY VOLUME (2024)	460
DIRECTIONAL DISTRIBUTION	0.65
TRUCKS (24 HOUR B&C)	0.02
DESIGN FUNCTIONAL CLASSIFICATION:	
MAJOR COLLECTOR	
NHS PROJECT	NO

DESIGN EXCEPTIONS

NONE

**SPEED LIMIT
 MED SR. 162 17.11-20.04**

DESIGN SPEED	45MPH
LEGAL SPEED	45MPH

**DESIGN DESIGNATION
 MED SR. 162 18.53-24.08**

CURRENT ADT (2016)	3500
DESIGN YEAR ADT (2024)	4300
DESIGN HOURLY VOLUME (2024)	430
DIRECTIONAL DISTRIBUTION	0.52
TRUCKS (24 HOUR B&C)	0.03
DESIGN FUNCTIONAL CLASSIFICATION:	
MAJOR COLLECTOR	
NHS PROJECT	NO

DESIGN EXCEPTIONS

NONE

**SPEED LIMIT
 MED SR. 162 18.53-24.08**

DESIGN SPEED	35MPH
LEGAL SPEED	35MPH

**DESIGN DESIGNATION
 MED SR. 162 24.16-26.74**

CURRENT ADT (2016)	2400
DESIGN YEAR ADT (2024)	2700
DESIGN HOURLY VOLUME (2024)	270
DIRECTIONAL DISTRIBUTION	0.56
TRUCKS (24 HOUR B&C)	0.03
DESIGN FUNCTIONAL CLASSIFICATION:	
MAJOR COLLECTOR	
NHS PROJECT	NO

DESIGN EXCEPTIONS

NONE

**SPEED LIMIT
 MED SR. 162 24.16-26.74**

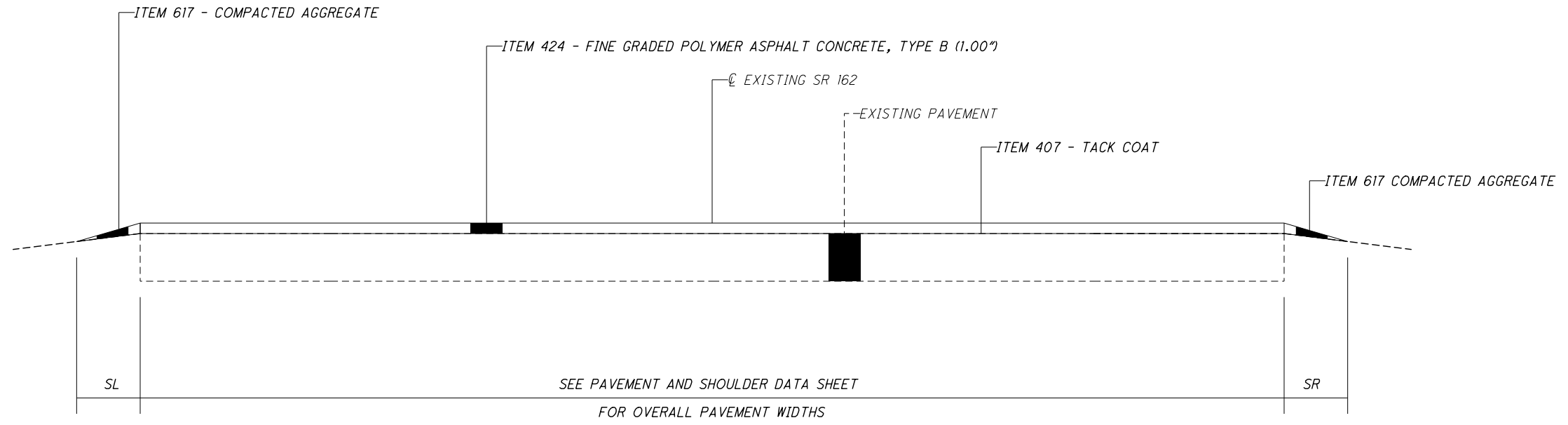
DESIGN SPEED	50MPH
LEGAL SPEED	50MPH

CALCULATED
 NRF
 CHECKED
 KRB

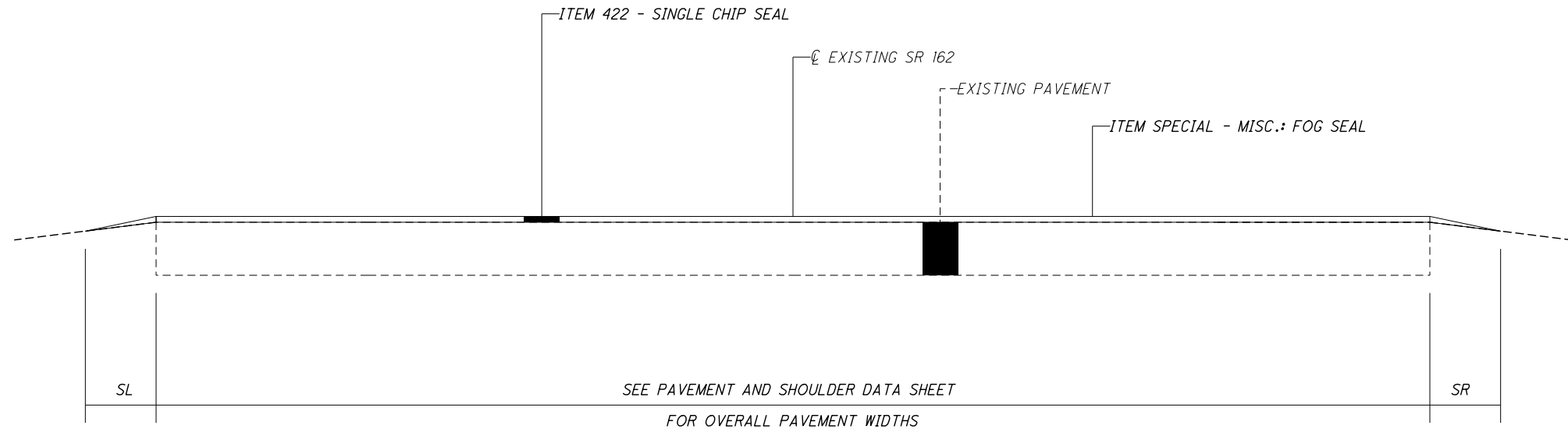
SCHEMATIC & DESIGN DESIGNATION

**MED -162-(12.90)
 (17.11)**

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WORKSTATION: foster DATE: 2/8/2016 MODELNAME: Sheet



TYPICAL 1
SLM. 12.90-16.62 AND 17.11-24.08



TYPICAL 2
SLM. 24.16-26.74

CALCULATED
NRF
CHECKED
KRB

TYPICAL SECTIONS

MED -162-(12.90)
(17.11)

UTILITIES

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

ARMSTRONG CABLE 1141 LAFAYETTE RD. MEDINA, OHIO 44256 330-722-3141X245	ASPIRE ENERGY (GATHERCO, INC.) 300 TRACY BRIDGE ROAD ORRVILLE, OHIO 44667
CITY OF MEDINA 132 NORTH ELMWOOD STREET MEDINA, OHIO 44256 330-722-9020	CITY OF WADSWORTH 120 MAPLE STREET WADSWORTH, OHIO 44281 330-335-2705
CITY OF WADSWORTH – ELECTRIC 120 MAPLE STREET WADSWORTH, OHIO 44281 330-335-2827	CITY OF WADSWORTH, WATER DEPT. 120 MAPLE STREET WADSWORTH, OHIO 44281 330-335-2830
COLUMBIA GAS OF OHIO 7080 FRY ROAD MIDDLEBURG HEIGHTS, OHIO 44130 440-552-0682	DOMINION EAST OHIO 1000 WEST WILBETH ROAD AKRON, OHIO 44134 330-798-7164
FRONTIER COMMUNICATIONS (FORMERLY VERIZON) 6223 NORWALK ROAD MEDINA, OHIO 44256 330-722-9586	LEVEL 3 COMMUNICATIONS 1025 ELDORADO BOULEVARD BROOMFIELD, COLORADO 80021 720-888-1702
MEDINA COUNTY ENGINEER 791 WEST SMITH ROAD MEDINA, OHIO 44256-0825 330-723-9561	MEDINA CO. SANITARY ENGINEER 791 WEST SMITH ROAD MEDINA, OHIO 44256 330-723-9579
ODOT D03 TRAFFIC 906 CLARK AVE. ASHLAND, OHIO 44805 419-207-7045	ODOT D04 TRAFFIC 2088 S. ARLINGTON ROAD AKRON, OHIO 44306 330-786-2226
OHIO EDISON COMPANY 1910 WEST MARKET ST., BLDG #1 AKRON, OHIO 44313 330-384-4954	ONE COMMUNITY 800 W. SAINT CLAIR 2ND FLOOR CLEVELAND, OHIO, 44113 216-581-7972
TIME WARNER CABLE 530 S MAIN ST. AKRON, OHIO 44311 330-633-9203	

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.

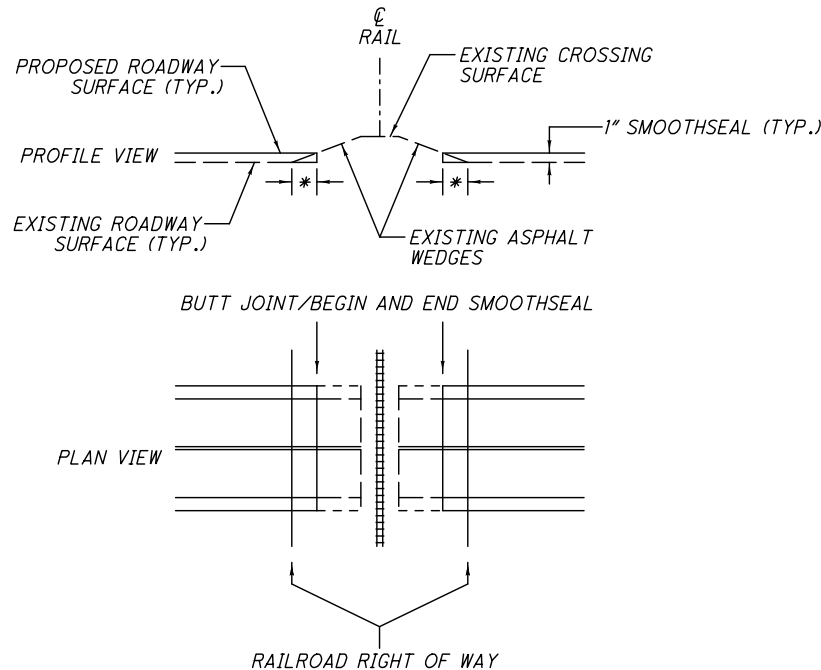
PROFILE ALIGNMENT

THE PROPOSED PAVEMENT RESURFACING SHALL FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT. THE PROPOSED ASPHALT CONCRETE OVERLAY SHALL HAVE AN AVERAGE THICKNESS OF 1 IN.

SMOOTHSEAL AT RAISED AT-GRADE RAILROAD CROSSINGS

PRIOR TO ANY WORK AT RAILROAD CROSSINGS THE CONTRACTOR SHALL CONTACT THE AFFECTED RAILROAD AUTHORITY SO AS TO MAKE THEM AWARE OF THE PROGRESS AND SCHEDULE OF WORK. THE CONTRACTOR SHALL COOPERATE WITH THE RAILROAD SO AS TO ELIMINATE ANY SAFETY CONCERNS. FLAGGING WILL BE REQUIRED BY THE RAILROAD. ODOT WILL BE RESPONSIBLE FOR PAYING THE RAILROAD FOR ALL FLAGGING COSTS. REFER TO THE RAILROAD SPECIAL CLAUSES IN THE PROPOSAL.

RAILROAD CROSSING DETAIL



- NOTE:
- ENGINEER SHALL MAKE FIELD ADJUSTMENTS, AS NECESSARY, TO MAXIMIZE THE SMOOTHNESS OF THE ROADWAY APPROACHES TO THE AT-GRADE RAIL-HIGHWAY CROSSING.
 - DO NOT DISTURB RAILROAD GATES.
 - RE-INSTALL PAVEMENT MARKINGS.
 - "*" INDICATES LENGTH OF PAVEMENT PLANING REQUIRED TO ESTABLISH A 1" BUTT JOINT IN THE EXISTING ASPHALT WEDGES.

BUTT JOINTS

BUTT JOINTS SHALL NOT BE CUT AND LEFT OPEN TO TRAFFIC. THEY SHALL BE FILLED IN WITH A TEMPORARY ASPHALT CONCRETE WEDGE USING ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC.

CONSTRUCTION "BUMP" (W8-1-36) AND "ADVISORY SPEED" (W13-1-24) SIGNS SHALL BE ERECTED AND MAINTAINED DURING THE PERIOD THE BUTT JOINT IS LEFT OPEN. THESE SIGNS SHALL BE PAID FOR UNDER THE LUMP SUM ITEM FOR ITEM 614 MAINTAINING TRAFFIC.

PLACEMENT OF ASPHALT CONCRETE

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.

AIRWAY/HIGHWAY CLEARANCE FOR AIRPORTS AND HELIPORTS

THIS PROJECT HAS BEEN IDENTIFIED AS BEING WITHIN THE INFLUENCE AREA OF A PUBLIC USE AIRPORT OR HELIPORT. NO TEMPORARY STRUCTURES OR CONSTRUCTION EQUIPMENT, AT MAXIMUM OPERATING HEIGHT, SHALL EXCEED A HEIGHT OF 25 FEET. IF ANY TEMPORARY STRUCTURE OR CONSTRUCTION EQUIPMENT WILL EXCEED THIS HEIGHT, FURTHER COORDINATION WITH THE FEDERAL AVIATION ADMINISTRATION (FAA) AND ODOT OFFICE OF AVIATION WILL BE NECESSARY PRIOR TO ERECTING SUCH TEMPORARY STRUCTURES OR OPERATING SUCH EQUIPMENT ON THE PROJECT. THE CONTRACTOR WILL BE REQUIRED TO FILE A NEW FAA FORM 7460-1 ADVISING THE FAA THAT AERONAUTICAL STUDY NUMBER(S) [SEE BELOW LIST] IS (ARE) BEING RESUBMITTED AND THAT AN ALTERATION TO THE ORIGINAL SUBMISSION(S) IS (ARE) REQUESTED.

NOTIFY THE ODOT OFFICE OF AVIATION WHEN RESUBMITTING AN FAA FORM 7460-1. NO TEMPORARY STRUCTURES OF CONSTRUCTION EQUIPMENT SHALL EXCEED THE PERMISSIBLE HEIGHT UNTIL A COPY OF THE FAA APPROVAL AND THE OFFICE OF AVIATION PERMIT HAS BEEN FURNISHED TO THE PROJECT ENGINEER.

FAA APPROVAL MAY TAKEUP TO 45 DAYS. ALL SUBMISSIONS SHALL BE DIRECTED TO THESE OFFICES:

EXPRESS PROCESSING CENTER
THE FEDERAL AVIATION ADMINISTRATION
SOUTHWEST REGIONAL OFFICE
AIR TRAFFIC AIRSPACE BRANCH ASW-520
2601 MEACHAN BLVD.
FORT WORTH, TX 76137-4298
PREFERRED METHOD:
WEBSITE: oeaad.faa.gov

OHIO DEPARTMENT OF TRANSPORTATION
OFFICE OF AVIATION
2829 WEST DUBLIN-GRANVILLE ROAD
COLUMBUS, OH 43235
614.387.2346

ASN	LAT	LONG
2016 - AGL -17704- OE	41° 5' 57.05"	-81° 44' 42.07"
2016 - AGL -17705- OE	41° 5' 57"	-81° 44' 9.88"
2016 - AGL -17706- OE	41° 5' 49.96"	-81° 43' 39.71"
2016 - AGL -17707- OE	41° 5' 38.16"	-81° 43' 9.82"

**ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR
ITEM 253 - PAVEMENT REPAIR**

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 REPAIR SHALL BE PERFORMED BEFORE THE SMOOTHSEAL AND/ OR CHIP SEAL. THE DEPTH OF REMOVAL SHALL BE SUFFICIENT TO REMOVE ALL DETERIORATED PAVEMENT WITH A MAXIMUM DEPTH OF 8" AND AN AVERAGE DEPTH OF 3" AND AN AVERAGE WIDTH OF 4 FT FOR ESTIMATING PURPOSES. THE MATERIALS REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH 105.16 AND 105.17.

REPLACEMENT MATERIAL SHALL BE ITEM 301, ITEM 441 TYPE 2, OR ITEM 442 19MM, AS PER PLAN MATERIAL AND SHALL BE PLACED AND COMPACTED TO FINISH FLUSH WITH THE ADJACENT PAVEMENT SURFACE. ITEM 301 ASPHALT CONCRETE CAN BE USED WHEN THE DEPTH OF THE REPAIR IS BETWEEN 3" AND 12" WITH A MAXIMUM PAVEMENT LIFT OF 6". ITEM 441 TYPE 2 OR ITEM 442 19MM, AS PER PLAN CAN BE USED WHEN THE DEPTH OF THE REPAIR IS BETWEEN 1.5" AND 5" WITH A MAXIMUM PAVEMENT LIFT OF 3". THE CONTRACTOR HAS THE OPTION OF USING EITHER ITEM 301, ITEM 441 TYPE 2, OR ITEM 442 19MM, AS PER PLAN MATERIAL WHEN THE PAVEMENT REPAIR IS BETWEEN 3" AND 5" DEEP. PG 64-22 ASPHALT BINDER SHALL BE USED FOR ALL OF THE ASPHALT CONCRETE MATERIALS FOR THESE REPAIRS.

FOR THE ITEM 442 19 MM, AS PER PLAN MATERIAL, REQUIREMENTS OF 442 APPLY EXCEPT AS FOLLOWS:
MIX DESIGN: FOR N_{des} USE 50 GYRATIONS, FOR N_{max} USE 75 GYRATIONS. USE A PG 64-22 BINDER.
MAXIMUM RECLAIMED ASPHALT CONCRETE PAVEMENT IS 30 PERCENT.
APPLY 703.05 FOR COARSE AND FINE AGGREGATE EXCEPT GRADATION FOR FINE AGGREGATE DOES NOT APPLY.
QUALITY CONTROL: DO NOT PERFORM N_{max} IN QUALITY CONTROL TESTING. DO NOT TAKE EXTRA ASPHALT BINDER SAMPLES AS OUTLINED IN CMS 442.05.

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE PAVEMENT REPAIR. FOR PAYMENT PURPOSES ITEM 251 PARTIAL DEPTH PAVEMENT REPAIR IS TO BE A MAXIMUM OF 4" DEEP AND ITEM 253 PAVEMENT REPAIR IS FOR DEPTHS GREATER THAN 4". PAYMENT WILL BE MADE AT THE UNIT BID PRICE PER CUBIC YARD, (BY TICKET WEIGHT CONVERSION), OF ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR OR ITEM 253 - PAVEMENT REPAIR. THE FOLLOWING ESTIMATED QUANTITIES ARE PROVIDED IN THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER. THE MAJORITY (APPROX. 90%) OF PARTIAL DEPTH REPAIRS WILL BE MADE LONGITUDINALLY.

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR	855 CY
02/STR/PV: SLM 12.90-15.27	213 CY
02/STR/PV: SLM 19.61-24.08	402 CY
02/STR/PV: SLM 24.16-26.74	240 CY
ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR	345 CY
01/S<2/PV: SLM 15.27-16.62	121 CY
01/S<2/PV: SLM 17.11-19.61	224 CY
ITEM 253 - PAVEMENT REPAIR	63 CY
02/STR/PV:	45 CY
01/S<2/PV:	18 CY

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ITEM SPECIAL - MISC.: FOG SEAL

DESCRIPTION: THIS WORK CONSISTS OF PREPARING AND FOG SEALING A CHIP SEALED SURFACE WITH A DILUTED NTSS-IHM 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 FURUL 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 SWEEPED 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 209 - LINEAR GRADING

THE CONTRACTOR IS REQUIRED TO PERFORM LINEAR GRADING ON THE GRADED SHOULDER. IT IS ANTICIPATED THAT THERE ARE AREAS WHERE THE GRADED SHOULDER IS AT A HIGHER ELEVATION THAN THE ADJACENT PROPOSED PAVEMENT. A 10:1 SLOPE SHALL BE ESTABLISHED, OR AS DIRECTED BY THE ENGINEER, WHEN PERFORMING ITEM 209 LINEAR GRADING. THE INTENT IS TO PROVIDE AN UNOBSTRUCTED AND POSITIVE FLOW OF STORM WATER FROM THE PAVEMENT TO THE DITCH. THE LINEAR GRADING SHALL BE PERFORMED AFTER THE INTERMEDIATE COURSE HAS BEEN COMPLETED AND BEFORE THE SURFACE COURSE IS PLACED. ALL LABOR AND EQUIPMENT NECESSARY TO PERFORM THE ABOVE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID PER MILE FOR ITEM 209 - LINEAR GRADING.

ITEM 611 - CATCH BASIN ADJUSTED TO GRADE

THE CATCH BASIN TO BE ADJUSTED TO GRADE MAY OR MAY NOT HAVE AN EXISTING FRAME. THE WORK SHALL CONSIST OF ADJUSTING THE EXISTING CATCH BASIN TO THE SATISFACTION OF THE ENGINEER. IT IS NOT INTENDED TO PLACE NEW FRAMES WHERE NONE CURRENTLY EXIST. THE CONTRACTOR IS REMINDED TO FIELD CHECK ALL ADJUSTMENT TO GRADE ITEMS PRIOR TO BIDDING, AS NO ADDITIONAL COMPENSATION WILL BE GRANTED FOR LABOR AND MATERIALS REQUIRED TO SATISFACTORILY ADJUST CASINGS WITHOUT FRAMES.

APPROXIMATE LOCATION OF KNOWN CATCH BASINS ARE:

MED-162 SLM 24.02 MED-162 SLM 24.06

TOTAL CARRIED TO GENERAL SUMMARY: 2 CATCH BASINS ADJUSTED TO GRADE (02/STR/PV)

ITEM 623 - MONUMENT BOX ADJUSTED TO GRADE

THE MONUMENT BOX TO BE ADJUSTED TO GRADE MAY OR MAY NOT HAVE AN EXISTING ADJUSTABLE FRAME. THE WORK SHALL CONSIST OF ADJUSTING THE EXISTING MONUMENT BOX TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR IS REMINDED TO FIELD CHECK ALL ADJUSTMENT TO GRADE ITEMS PRIOR TO BIDDING, AS NO ADDITIONAL COMPENSATION WILL BE GRANTED FOR LABOR AND MATERIALS REQUIRED TO SATISFACTORILY ADJUST CASTINGS WITHOUT ADJUSTABLE FRAMES.

APPROXIMATE LOCATIONS OF KNOWN MONUMENT BOXES ARE:

MED-162 SLM 13.78	MED-162 SLM 18.62	MED-162 SLM 18.65	MED-162 SLM 18.70
MED-162 SLM 18.74	MED-162 SLM 18.80	MED-162 SLM 18.85	MED-162 SLM 18.89
MED-162 SLM 19.02	MED-162 SLM 19.16	MED-162 SLM 19.32	MED-162 SLM 20.82
MED-162 SLM 20.91	MED-162 SLM 20.96	MED-162 SLM 21.04	MED-162 SLM 21.91
MED-162 SLM 22.05	MED-162 SLM 23.32	MED-162 SLM 23.35	MED-162 SLM 26.54
MED-162 SLM 26.62	MED-162 SLM 26.68		

TOTAL CARRIED TO GENERAL SUMMARY: 10 MONUMENT BOXES (01/S<2/PV)
TOTAL CARRIED TO GENERAL SUMMARY: 12 MONUMENT BOXES (02/STR/PV)

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 897 - PAVEMENT PLANING, ASPHALT CONCRETE, CLASS A

TAPER THE PLANING AT BUTT JOINT LOCATIONS AT STRUCTURES AND INTERSECTIONS AS SHOWN ON THE PAVEMENT AND SHOULDER DATA SHEET. THE CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE TO ALL CATCH BASINS AND INLETS AT ALL TIMES.

THE PROGRESSION OF THE PLANING SHALL PROCEED IN SUCH A MANNER THAT NORMAL TRAFFIC WILL NOT BE REQUIRED TO RUN OVER THE PLANED ROADWAY SURFACE FOR MORE THAN FOURTEEN (14) CONSECUTIVE CALENDAR DAYS. FOR EACH CALENDAR DAY BEYOND THE 14 DAYS THAT THE ROADWAY REMAINS EXPOSED TO THE PLANED SURFACE, A DISINCENTIVE FEE OF \$1500 PER DAY WILL BE ASSESSED TO THE CONTRACTOR.

PAYMENT SHALL INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS NECESSARY TO COMPLETE THE PAVEMENT PLANING, ASPHALT CONCRETE. PAYMENT WILL BE MADE AT THE UNIT BID PRICE PER SQUARE YARD OF ITEM 897 - PAVEMENT PLANING, ASPHALT CONCRETE, CLASS A.

ITEM 897 - PATCHING PLANED SURFACE

AN ESTIMATED QUANTITY OF ITEM 897 - PATCHING PLANED SURFACE HAS BEEN SET UP TO BE USED AS DIRECTED BY THE ENGINEER AS DESCRIBED IN CMS 897.04. THE LIMIT OF THE PATCHING DEPTH IS 0 TO 2 IN.

INTERSECTIONS AND DRIVES

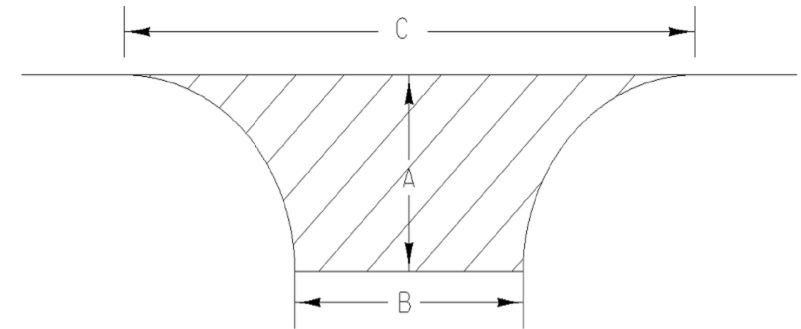
RURAL-INTERSECTIONS SHALL BE PLANED AND PAVED TO THE END OF THE RADI OR AS DIRECTED BY THE ENGINEER. (TO PROVIDE A SMOOTH TRANSITION BETWEEN THE TWO HIGHWAYS, AND TO ELIMINATE WATER POCKETS).

EXISTING PAVED DRIVES SHALL BE PAVED SO AS TO PROVIDE A SMOOTH TRANSITION BETWEEN THE HIGHWAY AND THE DRIVE, (DISTANCE FROM EDGE OF ROADWAY MAY VARY AT EACH DRIVE) AS DIRECTED BY THE ENGINEER. AN ADDITIONAL QUANTITY OF ITEM 424 FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B HAS BEEN ESTIMATED TO COMPLETE THIS WORK AND IS SHOWN AS AN EXTRA AREA ON THE PAVEMENT & SHOULDER DATA SHEET.

EXISTING AGGREGATE DRIVES SHALL BE TREATED THE SAME AS THE MAINLINE WITH ITEM 617 COMPACTED AGGREGATE SHOULDER TO THE SATISFACTION AND AS DIRECTED BY THE ENGINEER. NO EXTRA QUANTITY IS NEEDED.

ANY HAZARD OR UNSAFE CONDITION RESULTING FROM THE ABOVE WORK MUST BE CORRECTED IMMEDIATELY. THE CONTRACTOR IS REMINDED OF SECTIONS 105.01, 107.07 & 614.02A OF THE CONSTRUCTION AND MATERIALS SPECIFICATIONS.

THE PAVING DIMENSIONS FOR THE INTERSECTIONS ARE SHOWN IN THE CHART IN THE ADJACENT COLUMN.



INTERSECTION NAME	A FEET	B FEET	C FEET	AREA SY	COMMENTS
US 42	30	32	85	165	MAINLINE TAPER
BALLASH ROAD	16	24	60	64	RIGHT
DEERVIEW LANE	20	22	78	90	LEFT
TECHNOLOGY LANE	8	162	212	159	LEFT
LAKE ROAD	5	105	130	63	LEFT
LAKE ROAD	18	25	64	76	RIGHT
RYAN ROAD	5	90	115	55	LEFT
RYAN ROAD	22	22	60	85	RIGHT
SR 3	40	44	150	352	MAINLINE TAPER
SR 3	26	26	66	114	MAINLINE TAPER
HIGHLAND MEADOWS DRIVE	4	80	110	40	RIGHT
HIGHLAND GREEN DRIVE	8	50	88	56	RIGHT
SR 57	40	44	160	367	MAINLINE TAPER
SR 57	22	46	150	197	MAINLINE TAPER
MULBERRY BEND DRIVE	4	100	120	47	RIGHT
EMERALD LAKES DRIVE	4	100	115	47	LEFT
RIVER STYX ROAD	34	22	96	176	LEFT
RIVER STYX ROAD	18	30	72	88	RIGHT
BLUE HERON TRCE	2	94	102	21	LEFT
SUMMER LAKE DRIVE	4	118	134	55	LEFT
BRYWOOD DRIVE	12	44	76	73	RIGHT
BEAR SWAMPS ROAD	10	28	60	43	RIGHT
BONETA ROAD	8	26	40	27	LEFT
BONETA ROAD	8	24	30	23	RIGHT
MANOR GLEN DRIVE	10	40	98	66	LEFT
EQUESTRIAN TRAIL	10	46	74	61	RIGHT
BEACH ROAD	12	24	72	53	LEFT
BEACH ROAD	10	26	56	40	RIGHT
SR 94	18	26	48	67	MAINLINE TAPER
01/S<2/PV TOTAL:				1360	
02/STR/PV TOTAL:				1410	
TOTAL INTERSECTION AREAS				2770	

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GENERAL NOTES

MED-162-(12.90)
(17.11)

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PROJECT WORK RESTRICTION

NO WORK SHALL BE PERFORMED AND ALL LANES SHALL BE OPEN TO TRAFFIC JULY 9TH THROUGH JULY 24TH, 2016.

ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY TO CONSTRUCT A TEMPORARY ASPHALT WEDGE FROM THE EXISTING PAVEMENT TO THE PLANED SURFACE AT BUTT JOINTS AND OTHER LOCATIONS THAT RESULT IN A DROP-OFF. BEFORE RESURFACING OF THE PAVEMENT, THE TEMPORARY WEDGE SHALL BE REMOVED AND THE COST SHALL BE CONSIDERED INCIDENTAL TO ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC.

ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC 25 CY
01/S<2/PV: 15 CY
02/STR/PV: 10 CY

ITEM 614 - WORK ZONE MARKING SIGN

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER FOR TEMPORARY WORK ZONE MARKING SIGNS PER THE REQUIREMENTS OF THE CONSTRUCTION AND MATERIALS SPECIFICATIONS, 614.04.

01/S<2/PV:
WORK ZONE MARKING SIGN: (W8-H12A-36) NO EDGE LINE = 8 EACH
WORK ZONE MARKING SIGN: (R4-1-24) DO NOT PASS = 12 EACH
WORK ZONE MARKING SIGN: (R4-2-24) PASS WITH CARE = 7 EACH
TOTAL = 27 EACH

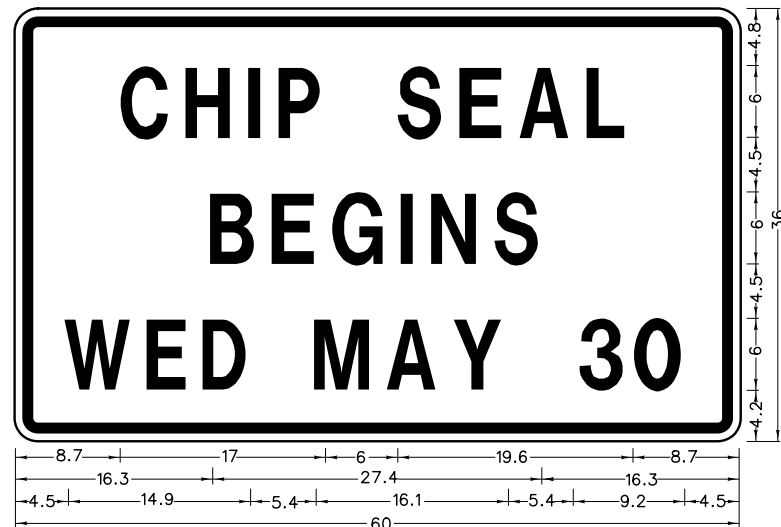
02/STR/PV:
WORK ZONE MARKING SIGN: (W8-H12A-36) NO EDGE LINE = 19 EACH
WORK ZONE MARKING SIGN: (R4-1-24) DO NOT PASS = 24 EACH
WORK ZONE MARKING SIGN: (R4-2-24) PASS WITH CARE = 19 EACH
TOTAL = 62 EACH

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
2 EACH (02/STR/PV)



2.3" Radius, 0.9" Border, 0.6" Indent, Black and Orange
"CHIP SEAL" D; "BEGINS" D, "WED MAY 30" D 90% spacing;

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GENERAL NOTES

MED-162-(12.90)
(17.11)

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ITEM SPECIAL, MAILBOX SUPPORT SYSTEM

THIS ITEM OF WORK SHALL CONSIST OF THE REMOVAL OF EXISTING NON-STANDARD MAILBOX SUPPORTS AND FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED HARDWARE IN ACCORDANCE WITH THE DETAILS SHOWN, AND ATTACHING AN OWNER SUPPLIED MAILBOX, AT LOCATIONS DETERMINED BY THE ENGINEER.

IN ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE BOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL SUPPLY ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION. SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO MAILBOXES MAY BE MOUNTED ON A SINGLE POST. [HARDWARE SHALL BE COMMERCIAL GRADE GALVANIZED STEEL.]

WOOD POSTS SHALL BE NOMINAL 4 IN. x 4 IN. (S4S) OR 4 1/2 IN. DIAMETER ROUND, AND CONFORM TO 710.14. STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2 IN. I.D., AND CONFORM TO AASHTO M 181.

POSTS SHALL BE SET AS PER THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WORK WITH THE LOCAL POST MASTER AND NOTIFYING THE PROPERTY OWNERS PRIOR TO WORK.

GROUP MAILBOX SUPPORTS SHALL BE PLACED ON 3 FT. CENTERS.

WHERE GUARDRAIL EXISTS, MAILBOXES AND THEIR SUPPORTS SHALL BE PLACED BEHIND THE GUARDRAIL. SUPPORTS MUST STILL MEET THE BREAKAWAY REQUIREMENTS LISTED ABOVE.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DESCRIBED ABOVE.

ITEM SPECIAL-MAILBOX SUPPORT SYSTEM, SINGLE (01/S<2/PV): 1 EACH

MAILBOX APPROACHES

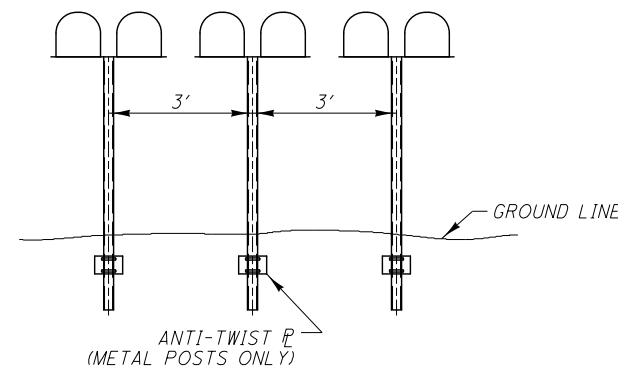
THE EXISTING MAILBOX APPROACHES SHALL BE PAVED WITH 1.00" ITEM 424 FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B. NO PROPOSED MAILBOX APPROACHES ARE TO BE INCLUDED IN THIS PROJECT.

LOCATIONS OF MAILBOX SUPPORT SYSTEM TO BE REPLACED

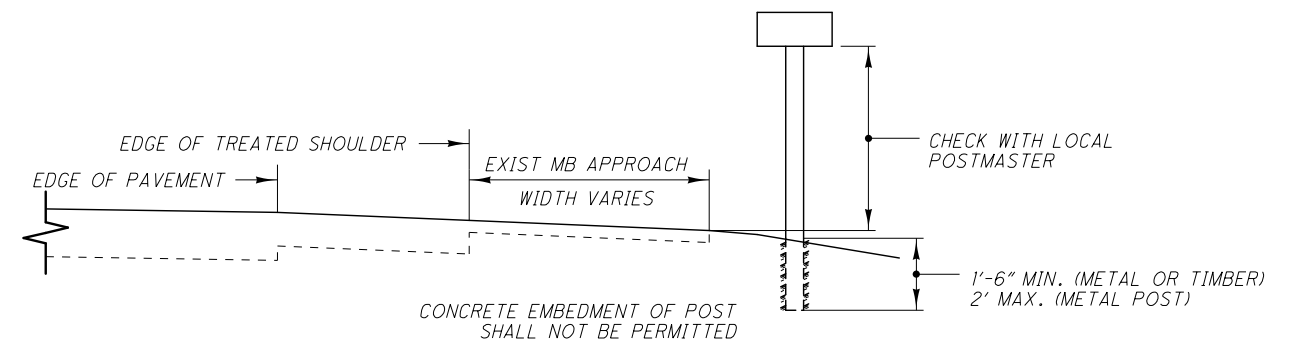
ADDRESSES AND/OR LOCATIONS OF MAILBOX SUPPORT SYSTEM TO BE REPLACED:

01/S<2/PV:

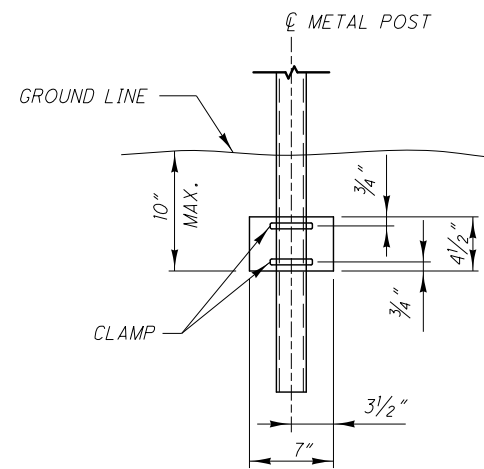
HOUSE NO. 44549 MED-162-17.90



GROUP MAILBOX INSTALLATION



CROSS SECTION / ELEVATION VIEW



ANTI-TWIST PLATE

FOR DETAILS NOT SHOWN SEE STANDARD DRAWING BP-4.1

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MAILBOX FACILITIES

MED-162-(12.90)
(17.11)

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AUXILIARY & LONG LINE MARKINGS

FUNDING SPLITS	ROUTE	COUNTY	STATION / SLM		HIGHWAY MILES	614				642, TYPE 1				644										642, TYPE 1										
						WORK ZONE CENTER LINE, CLASS III, 642 PAINT	WORK ZONE CENTER LINE, CLASS II, 642 PAINT	WORK ZONE CHANNELIZING LINE, CLASS I, 642 PAINT	WORK ZONE STOP LINE, CLASS I, 642 PAINT	EDGE LINE, 6"		CENTER LINE		AUXILIARY MARKINGS (740.04)										AUXILIARY MARKINGS (740.02)										
										TOTAL (PAY QUANTITY) (WHITE)	TOTAL (PAY QUANTITY) (YELLOW)	LANE LINE, 6"	SOLID LINE EQUIVALENT	TOTAL (PAY QUANTITY)	CHANNELIZING LINE	STOP LINE	CROSSWALK LINE	CHEVERON MARKING (WHITE)	TRANSVERSE/ DIAGONAL LINE (YELLOW)	BIKE CROSSING SYMBOL	RAILROAD SYMBOL MARKING	SCHOOL SYMBOL MARKING		LANE ARROW				STOP LINE						
						8"	24"	12"	24"	24"	EACH	EACH	72 INCH	96 INCH	FT	LEFT	RIGHT	THROUGH	MERGE RIGHT	24"														
02/STR/PV	162	MED	12.90	15.27	2.37		2.37	472	44	4.74			3.85	2.37	472	110	120		280	4	2					3	3							
02/STR/PV	162	MED	19.61	24.08	4.47		4.47		55	8.94			8.72	4.47		119					2													
02/STR/PV	162	MED	24.16	26.74	2.58	5.16			66	10.32			4.22	5.16																			66	
SUBTOTAL 02/STR/PV:					9.42	5.16	6.84	472	165	24.00			16.79	12.00	472	229	120		280	4	4				3	3						66		
01/S<2/PV	162	MED	15.27	16.62	1.35		1.35	290	26	2.70			2.64	1.35	290	46			128						3									
01/S<2/PV	162	MED	17.11	19.61	2.50		2.50		50	5.00			4.25	2.50		50																		
SUBTOTAL 01/S<2/PV:					3.85		3.85	290	76	7.70			6.89	3.85	290	96			128						3									
TOTALS TO GENERAL SUMMARY:					13.27	5.16	10.69	762	241	31.70			23.68	15.85	762	325	120		408	4	4				6	3						66		

RAISED PAVEMENT MARKERS

FUNDING SPLITS	ROUTE	COUNTY	STATION/SLM		DETAIL	621					621				REMARKS	DETAIL	DESCRIPTION	
						RAISED PAVEMENT MARKER REMOVED	RPM	PRISMATIC RETRO-REFLECTOR TYPES										
								ONE-WAY	TWO-WAY									
FROM	TO	EACH	EACH	WHITE	YELLOW / YELLOW	WHITE / RED	YELLOW / RED	BLUE / BLUE										
02/STR/PV	162	MED	13.01	13.21	6	27	27	16	11							1	MULTILANE UNDIVIDED TYPICAL SPACING	
02/STR/PV	162	MED	13.21	14.82	GAP	117	117		107	10						2	TAPERED ACCEL. LANE	
02/STR/PV	162	MED	14.82	15.14	6	54	54	32	22							3	DECELERATION LANE	
02/STR/PV	162	MED	15.14	15.27	GAP	9	9		9							4	PARALLEL ACCEL LANE	
02/STR/PV	162	MED	19.61	20.05	GAP	29	29		29							5	MULTILANE DIVIDED/EXPRESSWAY	
02/STR/PV	162	MED	20.05	20.39	8	54	54	32	22							6	STOP APPROACH	
02/STR/PV	162	MED	20.39	20.59	16	29	29		29							7	2 LANE APPR. WITH TURN LANE	
02/STR/PV	162	MED	20.59	21.01	GAP	26	26		26							8	THROUGH APPROACH	
02/STR/PV	162	MED	21.01	21.23	16	33	33		33							9	3 LANE APPR. WITH TURN LANE	
02/STR/PV	162	MED	21.23	21.58	GAP	24	24		24							11	3 LANE UNDIVIDED TO 2 LANE TRANSITION	
02/STR/PV	162	MED	21.58	21.80	16	42	42		42							12	TWO LANE NARROW BRIDGE	
02/STR/PV	162	MED	21.80	22.00	GAP	11	11		11							13	TWO WAY LEFT TURN LANE	
02/STR/PV	162	MED	22.00	22.31	16	55	55		55							14	ONE LANE BRIDGE	
02/STR/PV	162	MED	22.31	24.16	GAP	117	117		117							15	HORIZONTAL CURVE	
02/STR/PV	162	MED	24.16	24.28	6	27	27	16	11							16	HORIZONTAL CURVE ALT.	
02/STR/PV	162	MED	24.28	24.36	6	27	27	16	11							17	STOP APPROACH ALT.	
02/STR/PV	162	MED	24.36	24.56	6	27	27	16	11							18	FIRE HYDRANT	
02/STR/PV	162	MED	24.56	25.17	GAP	40	40		40							GAP	CENTER LINE AT 80 FT. TYP.	
02/STR/PV	162	MED	25.17	25.41	15	32	32		32								NOTES	
02/STR/PV	162	MED	25.41	26.03	GAP	41	41		41								1) THRU LANES SHALL BE STRIPED TO MATCH EXISTING LANE WIDTHS ACCORDING TO CMS 641.08A.	
02/STR/PV	162	MED	26.03	26.26	15	30	30		30								2) FOR ALL WORK ZONE MARKINGS, THE 642 PAINT USED SHALL BE TYPE 1.	
02/STR/PV	162	MED	26.26	26.74	GAP	47	47		47								3) WORK ZONE STOP LINES SHALL BE PLACED AT THE FOLLOWING LOCATIONS:	
SUBTOTAL 02/STR/PV:						871	871										SR 162 AND US 42	
01/S<2/PV	162	MED	15.27	16.62	GAP	89	89		89								SR 162 AND CSX RR CROSSING	
01/S<2/PV	162	MED	16.62	17.44	6	27	27	16	11								SR 162 AND LAKE ROAD	
01/S<2/PV	162	MED	17.44	18.50	GAP	66	66		66								SR 162 AND SR 3 OVERLAP (BOTH APP.)	
01/S<2/PV	162	MED	18.50	18.90	6	54	54	32	22								SR 162 AND SR 57	
01/S<2/PV	162	MED	18.90	19.61	GAP	47	47		47								SR 162 AND RIVER STYX ROAD	
SUBTOTAL 01/S<2/PV:						310	310										SR 162 AND WHEELING & LAKE ERIE RR	
TOTALS TO GENERAL SUMMARY:						1,181	1,181											SR 162 AND SR 94
																	SR 162 AND MEDINA LINE ROAD	

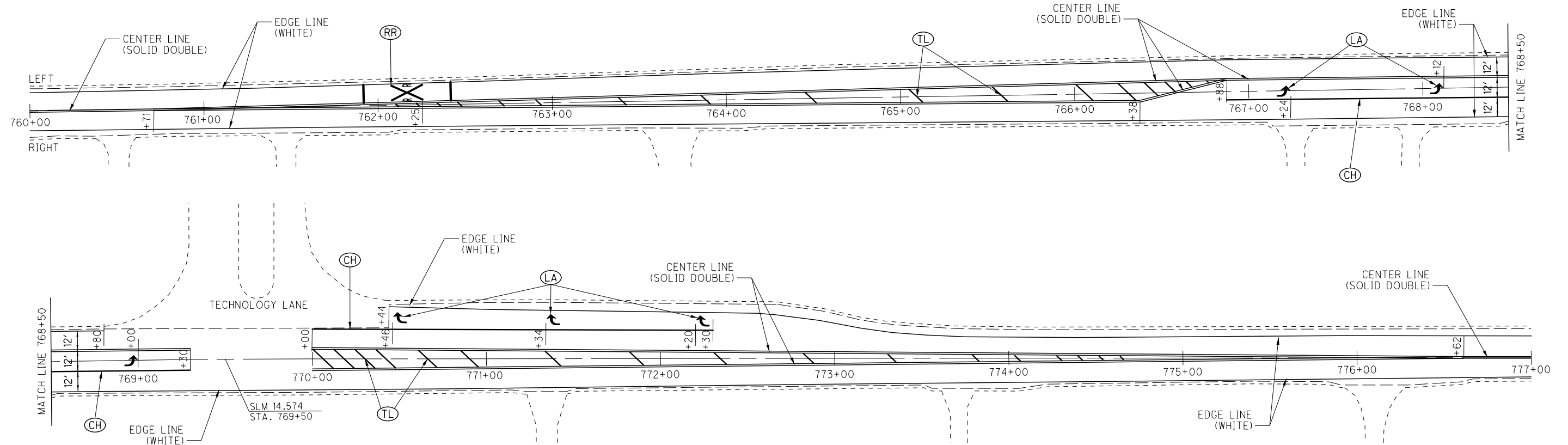
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PAVEMENT MARKING / RPM SUBSUMMARY

MED -162-(12.90)
(17.11)

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WORKSTATION: nfooster
DATE: 2/8/2016
MODELNAME: Sheet

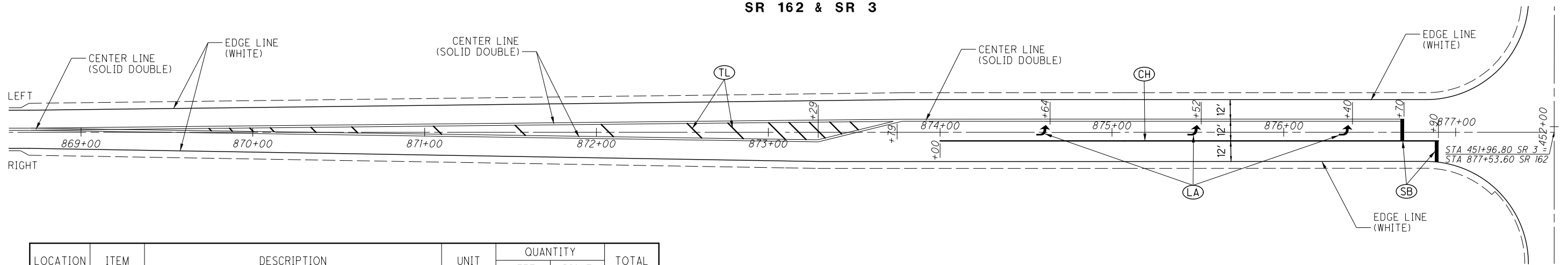
SR 162 & TECHNOLOGY LANE



LOCATION	ITEM	DESCRIPTION	UNIT	QUANTITY		TOTAL
				LEFT	RIGHT	
(CH)	644	CHANNELIZING LINE, 8"	FT	230	242	472
(LA)	644	LANE ARROW (LEFT)	EA		3	3
(LA)	644	LANE ARROW (RIGHT)	EA	3		3
(TL)	644	TRANSVERSE/ DIAGONAL LINE	FT		280	280
(RR)	644	RAIL ROAD SYMBOL	EA	1		1

NOTE: ALL PAVEMENT MARKING QUANTITIES HAVE BEEN CARRIED TO THE PAVEMENT MARKING/RPM SUBSUMMARY SHEET.

SR 162 & SR 3



LOCATION	ITEM	DESCRIPTION	UNIT	QUANTITY		TOTAL
				LEFT	RIGHT	
(CH)	644	CHANNELIZING LINE, 8"	FT		290	290
(SB)	644	STOP LINE	FT		26	26
(TL)	644	TRANSVERSE/ DIAGONAL LINE (YELLOW)	FT		128	128
(LA)	644	LANE ARROW (LEFT)	EACH		3	3

NOTE: ALL PAVEMENT MARKING QUANTITIES HAVE BEEN CARRIED TO THE PAVEMENT MARKING/ RPM SUBSUMMARY SHEET.



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STATE ROUTE 162
PAVEMENT MARKING DETAILS

MED -162-(12.90)
(17.11)

11
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DESIGN FILE: \\ProjectData\97043\Design\Roadway\Sheets\97043TS002.dgn
MODELNAME: Design
WORKSTATION:foster
DATE: 2/8/2016