

UTILITIES

THE CONTRACTOR SHALL USE THE FOLLOWING PROCEDURE AT EACH LOCATION WHERE WORK IS PERFORMED, IN ACCORDANCE WITH SECTION 105.07 AND 107.16 IN THE CONSTRUCTION AND MATERIALS SPECIFICATIONS.

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, OHIO811, THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 4 HEADQUARTERS AND ALL NON REGISTERED UTILITY OWNERS AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION IN ALL AREAS.

OHIO811 8-1-1
ODOT 330-786-2267 MICHELLE CHANEY

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

SANITARY
MAHONING COUNTY SANITARY DEPARTMENT
761 INDUSTRIAL ROAD
YOUNGSTOWN, OH 44509
330.793.5514 EXT. 8212
MELISSA MAGNO
MMAGNO@MAHONINGCOUNTYOH.GOV

ELECTRIC
FIRST ENERGY (OHIO EDISON)
730 SOUTH AVENUE
YOUNGSTOWN, OH 44502
330.740.7625
RAYMOND JENKINS
JENKINSR@FIRSTENERGYCORP.COM

WATER
YOUNGSTOWN WATER DEPARTMENT
26 S. PHELPS STREET
YOUNGSTOWN, OH 44503
330.743.5340
DAN BLAKELY
DBLAKELY@YOUNGSTOWNOHIO.GOV

TELECOM
AT&T
50 W. BOWERY STREET, 6TH FLOOR
AKRON, OH 44308
330.384.3048
HAROLD MAYNARD
HM2147@ATT.COM

GAS
DOMINION ENERGY OHIO
320 SPRINGSIDE DRIVE, SUITE 320
AKRON, OH 44333
330.664.2638
MICAH RISACHER
MICAH.J.RISACHER@DOMINIONENERGY.COM

OIL AND GAS WELL
OHIO VALLEY ENERGY SYSTEMS
200 VICTORIA ROAD, BUILDING 4
AUSTINTOWN, OH 44514
330.799.2268
RICK LIDDLE
RLIDDLE@OV-ENERGY.COM

CABLE
ARMSTRONG CABLE
9328 WOODWORTH ROAD
NORTH LIMA, OH 44452
330.726.0115
GENO SHONCE
CSHONCE@AGOC.COM

CABLE
CHARTER COMMUNICATIONS
2904 STATE ROAD
ASHTABULA, OH 44004
216-575-8016 OPT. 1 EXT. 216-555-5740
JASON SPRAGUE
JASON.SPRAGUE@CHARTER.COM

IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN THE LATERAL AND SUBJACENT SUPPORT OF DOMINION ENERGY'S PIPELINE(S), IN COMPLIANCE TO 29 CFR, PART 1926, SUBPART P, (SAFE EXCAVATION & SHORING). ONE-FOOT MINIMUM VERTICAL AND HORIZONTAL CLEARANCE MUST BE MAINTAINED BETWEEN DOMINION ENERGY OHIO'S (DEO) EXISTING PIPELINE(S) AND ALL OTHER IMPROVEMENTS. EXTREME CARE SHOULD BE TAKEN NOT TO HARM ANY DEO FACILITY (PIPELINES, ETC.) OR APPURTENANCE (PIPE COATING, TRACER WIRE, CATHODIC PROTECTION TEST STATION WIRES & DEVICES, VALVE BOXES ETC.). DEO FACILITIES MUST BE PROTECTED WITH A TARP DURING BRIDGE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE AND LIABLE FOR ENSURING THAT ALL DEO EXISTING FACILITIES, ABOVE AND BELOW GROUND, REMAIN UNDAMAGED, ACCESSIBLE AND IN WORKING ORDER. THE CROSSING OF DEO'S PIPELINE WITH ANOTHER STEEL FACILITY MAY CREATE A POTENTIAL CORROSION ISSUE FOR THE PROPOSED FACILITY AND THE EXISTING DEO FACILITY. PLEASE CONTACT DOMINION ENERGY OHIO'S CORROSION DEPARTMENT: DAVE CUTLIP (330-266-2121), RICK MCDONALD (330-266-2122), OR AL HUMRICHOUER (330-478-3757).

CONSTRUCTION NOISE

ACTIVITIES AND LAND USE ADJACENT TO THIS PROJECT MAY BE AFFECTED BY CONSTRUCTION NOISE. IN ORDER TO MINIMIZE ANY ADVERSE CONSTRUCTION NOISE IMPACTS, DO NOT OPERATE POWER-OPERATED CONSTRUCTION-TYPE DEVICES BETWEEN THE HOURS OF 7 P.M. AND 7 A.M. ON S.R. 625 AND TIPPECANOE RD. IN ADDITION, DO NOT OPERATE AT ANY TIME ANY DEVICE IN SUCH A MANNER THAT THE NOISE CREATED SUBSTANTIALLY EXCEEDS THE NOISE CUSTOMARILY AND NECESSARILY ATTENDANT TO THE REASONABLE AND EFFICIENT PERFORMANCE OF SUCH EQUIPMENT.

SURVEYING PARAMETERS

PRIMARY PROJECT CONTROL MONUMENTS GOVERN ALL POSITIONING ON ODOT PROJECTS. SEE SHEET 2 OF THE PLANS FOR A TABLE CONTAINING PROJECT CONTROL INFORMATION.

USE THE FOLLOWING PROJECT CONTROL, VERTICAL POSITIONING, AND HORIZONTAL POSITIONING PARAMETERS FOR ALL SURVEYING:

PROJECT CONTROL

POSITIONING METHOD: ONLINE POSITIONING USER SERVICE
MONUMENT TYPE: IRON PIN WITH PLASTIC CAP SET

VERTICAL POSITIONING

ORTHOMETRIC HEIGHT DATUM: NAVD88
GEOID: GEOID12B

HORIZONTAL POSITIONING

REFERENCE FRAME: NAD 1983 (2011) EPOCH: 2010.00
ELLIPSOID: GEODETIC REF SYSTEM 1980
MAP PROJECTION: LAMBERT CONFORMAL CONIC TWO PARALLEL
COORDINATE SYSTEM: OHIO NORTH 3401
COMBINED SCALE FACTOR: 1.0001037 (GRID TO GROUND)
ORIGIN OF COORDINATE SYSTEM: GRID COORDINATES SCALED ABOUT 0,0
PROJECT SCALE FACTOR: N/A

USE THE POSITIONING METHODS AND MONUMENT TYPE USED IN THE ORIGINAL SURVEY TO RESTORE ALL MONUMENTS RELATED TO PRIMARY PROJECT CONTROL THAT ARE DAMAGED OR DESTROYED BY CONSTRUCTION ACTIVITIES. RESTORE DAMAGED OR DESTROYED MONUMENTS IN ACCORDANCE WITH CMS 623.

UNITS ARE IN U.S. SURVEY FEET.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

SEEDING AND MULCHING

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

- 659, SOIL ANALYSIS TEST 2 EACH
- 659, TOPSOIL 369 CU. YD.
- 659, SEEDING AND MULCHING, CLASS 1 3324 SQ. YD.
- 659, REPAIR SEEDING AND MULCHING 166 SQ. YD
- 659, INTER-SEEDING 166 SQ. YD.
- 659, COMMERCIAL FERTILIZER 0.46 TON
- 659, LIME 0.69 ACRES
- 659, WATER 18 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 THESE LIMITS.

JOINT SEAL

ALL FEATHER OR BUTT JOINTS SHALL BE AS PER ODOT STANDARD CONSTRUCTION DRAWING BP-3.1 AND IN ADDITION, SHALL INCLUDE A 4" WIDE STRIP OF ASPHALT CEMENT 702.01 APPLIED TO THE SURFACE OF THE JOINT. JOINT SEAL SHALL ALSO BE APPLIED AT ALL LOCATIONS MEETING CURB. PAYMENT SHALL INCLUDE ALL NECESSARY LABOR, EQUIPMENT AND MATERIALS FOR THE WORK NOTES ABOVE AND SHALL BE INCLUDED WITH THE CONTRACT UNIT PRICE BID FOR ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG 64-22.

EXISTING SUBSURFACE DRAINAGE

PROVIDE UNOBSTRUCTED OUTLETS FOR ALL EXISTING UNDERDRAINS OR AGGREGATE DRAINS ENCOUNTERED DURING CONSTRUCTION.

PROVIDE AN OUTLET PER STANDARD CONSTRUCTION DRAWING DM-1.1 FOR ALL UNDERDRAINS THAT OUTLET TO A SLOPE.

UNDERDRAINS THAT CAN BE CONNECTED TO THE NEW OR EXISTING UNDERDRAINS AT THE END OF THE PROJECT LIMITS AS WELL AS ALL NECESSARY BENDS OR BRANCHES REQUIRED FOR CONNECTION ARE INCLUDED IN THE BASIS OF PAYMENT FOR UNCLASSIFIED PIPE UNDERDRAINS.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE WORK NOTED ABOVE:

605, 6" UNCLASSIFIED PIPE UNDERDRAINS, WITH GEOTEXTILE FABRIC 100 FT.

CROSSINGS AND CONNECTIONS TO EXISTING PIPES AND UTILITIES

WHERE PLANS PROVIDE FOR A PROPOSED CONDUIT TO BE CONNECTED TO, OR CROSS OVER OR UNDER AN EXISTING SEWER OR UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED CONDUIT.

IF IT IS DETERMINED THAT THE ELEVATION OF THE EXISTING CONDUIT, OR EXISTING APPURTENANCE TO BE CONNECTED, DIFFERS FROM THE PLAN ELEVATION OR RESULTS IN A CHANGE IN THE PLAN CONDUIT SLOPE, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.

IF IT IS DETERMINED THAT THE PROPOSED CONDUIT WILL INTERSECT AN EXISTING SEWER OR UNDERGROUND UTILITY IF CONSTRUCTED AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED CONDUIT WHICH WOULD BE AFFECTED BY THE INTERFERENCE WITH AN EXISTING FACILITY.

PAYMENT FOR ALL THE OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEM.

REVIEW OF DRAINAGE FACILITIES

BEFORE ANY WORK IS STARTED ON THE PROJECT AND AGAIN BEFORE FINAL ACCEPTANCE BY THE COUNTY, REPRESENTATIVES OF THE COUNTY AND THE CONTRACTOR, SHALL MAKE AN INSPECTION OF ALL EXISTING SEWERS WHICH ARE TO REMAIN IN SERVICE AND WHICH MAY BE AFFECTED BY THE WORK. THE CONDITION OF THE EXISTING CONDUITS AND THEIR APPURTENANCE SHALL BE DETERMINED FROM FIELD OBSERVATIONS. RECORDS OF THE INSPECTION SHALL BE KEPT IN WRITING BY THE COUNTY.

ALL NEW CONDUITS, INLETS, CATCH BASINS, AND MANHOLES CONSTRUCTED AS A PART OF THE PROJECT SHALL BE FREE OF ALL FOREIGN MATTER AND IN A CLEAN CONDITION BEFORE THE PROJECT WILL BE ACCEPTED BY THE COUNTY.

ALL EXISTING SEWERS INSPECTED INITIALLY BY THE ABOVE MENTIONED PARTIES SHALL BE MAINTAINED AND LEFT IN A CONDITION REASONABLY COMPARABLE TO THAT DETERMINED BY THE ORIGINAL INSPECTION. ANY CHANGE IN THE CONDITION RESULTING FROM THE CONTRACTORS OPERATIONS SHALL BE CORRECTED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.

PAYMENT FOR ALL OPERATIONS DESCRIBED ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE PERTINENT 611 CONDUIT ITEMS.

UNSUITABLE SOILS

THE FOLLOWING ITEMS AND QUANTITIES ARE TO BE USED AS DIRECTED BY THE ENGINEER TO ADDRESS UNSUITABLE SOILS ENCOUNTERED ON PART 2.
ITEM 203 - EXCAVATION, 1119 CU YD
ITEM 203 - GRANULAR MATERIAL, TYPE C (703.16), 1119 CU YD
ITEM 204 - GEOTEXTILE FABRIC, 4076 SQ YD

THE UNDERCUT AREA WILL NEED TO BE SLOPED TO AN UNDERDRAIN, CATCH BASIN, OR PIPE WHERE APPLICABLE.

CALCULATED
MDK
CHECKED
GPD

GENERAL NOTES

MAH-224/625-15.51/0.00
PART 2

MAINTENANCE OF TRAFFIC

THIS ITEM SHALL CONSIST OF MAINTENANCE OF TRAFFIC ON EXISTING ROADWAYS AND RAMPS IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION, LATEST REVISION, THE SPECIFICATIONS AND THE FOLLOWING:

- 1. A MINIMUM OF TWO TEN FOOT LANES IN EACH DIRECTION SHALL BE MAINTAINED ON THE EXISTING PAVEMENT OR COMPLETED PAVEMENT DURING CONSTRUCTION OF THE WORK ON U.S. 224.
2. A MINIMUM OF ONE TEN FOOT LANE IN EACH DIRECTION SHALL BE MAINTAINED ON THE EXISTING PAVEMENT OR COMPLETED PAVEMENT DURING CONSTRUCTION OF THE WORK ON S.R 625 AND TIPPECANOE RD.
3. ON U.S. 224 ALL WORK MUST BE COMPLETED DURING THE HOURS OF 9PM AND 9AM. ALL LANES MUST BE OPEN TO TRAFFIC DURING THE HOURS OF 9AM AND 9PM. SHOULD THE CONTRACTOR FAIL TO MEET THIS REQUIREMENT, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$8,500 PER HOUR THAT ALL LANES ARE NOT OPEN TO TRAFFIC DURING THE TIMES OF 9AM - 9PM.
4. ON S.R. 625 AND TIPPECANOE RD. ALL WORK MUST BE COMPLETED DURING THE HOURS OF 7AM TO 7PM.
5. DRIVE ENTRANCES TO COMMERCIAL PROPERTIES ON S.R. 625 SHALL BE CONSTRUCTED ONE DRIVE AT A TIME.
6. THE CONTRACTOR SHALL INFORM THE DISTRICT OFFICE (330) 786-2208, EIGHTEEN (18) DAYS PRIOR TO THE BEGINNING OF WORK.
7. ALL FULL DEPTH PAVEMENT REMOVAL AND REPLACEMENT OPERATIONS SHALL BE COMPLETED THE SAME DAY THE EXCAVATION IS MADE. IF THE CONTRACTOR CANNOT COMPLETE THE WORK, THE EXCAVATION SHALL BE BACKFILLED OR PROTECTED AS PER STANDARD CONSTRUCTION DRAWING MT-101.90.
8. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BE PERMITTED TO HAVE SUCCESSIVE WORK ZONES UNLESS THE DISTANCE BETWEEN THE DRUMS, BARRICADES OR CONES EXCEEDS TWO (2) MILES RURAL OR ONE (1) MILE URBAN.
9. IN ADDITION TO THE REQUIREMENTS OF 614.II WORK ZONE PAVEMENT MARKINGS, AT THE END OF EACH DAY OF WORK, THE CONTRACTOR SHALL REPLACE (WITH WORK ZONE MARKINGS) ALL LANE, CENTER, STOP OR CHANNELIZING LINES THAT WERE REMOVED OR COVERED DURING THE PAVEMENT REMOVAL OR PLACEMENT OPERATIONS. QUANTITIES FOR SUCH PLACEMENT ARE CARRIED AS PART OF THE ITEMS LISTED UNDER 614 WORK ZONE PAVEMENT MARKINGS.
10. A QUANTITY OF 20 CU. YDS. OF ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC SHALL BE PROVIDED FOR USE IN MAINTAINING PAVEMENT, SHOULDER AND OTHER LOCATIONS AS DIRECTED BY THE ENGINEER.
11. PRIOR TO OPENING TO TRAFFIC EACH LANE SHALL BE IN A SAFE, PASSABLE CONDITION. ALL TRANSVERSE JOINTS SHALL EXTEND ACROSS THE FULL LANE AND SHOULDER WIDTH AND EACH LANE SHALL BE FREE FROM UNEVEN LONGITUDINAL JOINTS. THE CONTRACTOR SHALL PROVIDE ASPHALT WEDGES FOR TRANSVERSE JOINTS WHEREVER THERE ARE PAVEMENT ELEVATION DIFFERENCES.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

THE FOLLOWING QUANTITIES SHALL BE USED FOR THE MAINTENANCE OF TRAFFIC ON U.S. 224:

PHASE 1 -- INTERMEDIATE COURSE
614, WORK ZONE CENTER LINE, CLASS I 0.31 MILE
614, WORK ZONE LANE LINE, CLASS I, 4" 0.41 MILE
614, WORK ZONE STOP LINE, CLASS I 129 FT
614, WORK ZONE CHANNELIZING LINE, CLASS I, 8" 1335 FT
614, WORK ZONE ARROW, CLASS I 8 EA
614, WORK ZONE EDGE LINE, CLASS I, 4" 0.22 MILE

THE FOLLOWING QUANTITIES SHALL BE USED FOR THE MAINTENANCE OF TRAFFIC ON S.R. 625:

PHASE 2 -- INTERMEDIATE COURSE
614, WORK ZONE CENTER LINE, CLASS I 0.40 MILE
614, WORK ZONE LANE LINE, CLASS I, 4" 0.03 MILE
614, WORK ZONE CHANNELIZING LINE, CLASS I, 8" 922 FT
614, WORK ZONE ARROW, CLASS I 1 EA
614, WORK ZONE EDGE LINE, CLASS I, 4" 0.28 MILE
614, WORK ZONE TRANSVERSE/DIAGONAL LINE, CLASS I 224 FT

THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE DISTRICT CONSTRUCTION ENGINEER A DETAILED SCHEDULE 15 DAYS PRIOR TO THE PLACEMENT OF THE OVERLAY COURSES, ON HOW THEY PROPOSE TO PROSECUTE THE PAVING OPERATIONS. THE DETAILS SHALL SHOW THE ORDER OF PERFORMANCE OF EACH STAGE (START TO FINISH) OF THE WORK INCLUDING THE MAINTENANCE OF TRAFFIC THAT WILL BE USED.

SEQUENCE OF CONSTRUCTION

- 1. WATER MAIN CONSTRUCTION SHALL BE COMPLETE BY 8-19-20.
2. PART 2 WIDENING AND BEGIN PROJECT TO WEST BLVD. (SLM 13.64 - 16.81) OF PART 1 MUST BE COMPLETE PRIOR TO 9-30-2020. IF NOT COMPLETE BY 9-30-2020, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$10,000 PER DAY OF WORK PAST THE INTERIM COMPLETION DATE WITHIN THESE LIMITS.

PHASE 1 - U.S. 224

A MINIMUM OF TWO TEN FOOT LANES IN EACH DIRECTION ON U.S. 224 SHALL BE MAINTAINED DURING PHASE 1 CONSTRUCTION AND ALL WORK MUST BE CONDUCTED BETWEEN 9 PM AND 9 AM. AT NO TIME SHALL THE CONTRACTOR ENCR OACH UPON THE TRAVEL LANES BETWEEN THE HOURS OF 9 AM AND 9 PM. FAILURE TO MEET THIS REQUIREMENT WILL RESULT IN THE CONTRACTOR BEING CHARGED A DISINCENTIVE IN THE AMOUNT OF \$8,500 PER HOUR IF LANES ARE NOT OPEN TO TRAFFIC BETWEEN 9 AM AND 9 PM.

INSTALL NECESSARY TRAFFIC CONTROL DEVICES PER THE GUIDANCE IN STANDARD CONSTRUCTION DRAWING (SCD) MT-95.45 AND AS SHOWN IN THE PLANS AND CLOSE THE SHOULDER OF WESTBOUND US-224, ENSURING THAT THE CHANNELIZING DEVICES PROVIDE PROPER OFFSET FROM THE TRAVEL LANES.
CONSTRUCT THE WIDENING FOR THE RIGHT TURN LANES UP TO AND INCLUDING THE ASPHALT INTERMEDIATE COURSE, AND INSTALL THE NEW CURB ON THE NORTH SIDE OF U.S. 224, ENSURING THAT TRENCHES ARE FILLED AT THE END OF THE WORK PERIOD AND DROPOFFS REMAINING DURING OFF-CONSTRUCTION PERIODS MEET WITH THE POLICIES OUTLINED IN SCD MT-101.90. THE CONTRACTOR SHALL INSTALL THE NEW SIGNAL ITEMS ON THE NORTH SIDE OF U.S. 224 OPPOSITE PHEASANT DRIVE.

MODIFICATIONS TO THE USE OF TEMPORARY TRAFFIC CONTROL DEVICES MAY BE MADE FOR THE CONSTRUCTION OF THE CURB RAMP ON THE SOUTH SIDE OF U.S. 224, TO THE SATISFACTION OF THE ENGINEER. THE RESTRICTION TO ENCR OACHMENT ON TRAVEL LANES BETWEEN 9 AM AND 9 PM SHALL REMAIN IN EFFECT AND THE DISINCENTIVE SHALL STILL APPLY.

PHASE 2 - S.R. 625

INSTALL NECESSARY TRAFFIC CONTROL DEVICES PER THE GUIDANCE IN SCD MT-102.20 AND AS SHOWN IN THE PLANS AND SHIFT TRAFFIC ON NORTHBOUND S.R. 625 TO THE LEFT. MAINTAIN EXISTING TRAFFIC PATTERN FOR SOUTHBOUND TRAFFIC.

CONSTRUCT THE WIDENING FOR THE EAST SIDE OF S.R. 625, UP TO AND INCLUDING THE ASPHALT INTERMEDIATE COURSE. TIE IN THE NEW COMMERCIAL DRIVE ENTRANCE ON THE RIGHT AND INSTALL THE PROPOSED WATER LINE. THE CONTRACTOR SHALL ENSURE THAT AT LEAST TWO OF THE THREE DRIVES ON THE COMMERCIAL PROPERTY AT THE SOUTH END OF THE WORK ZONE, RIGHT SIDE, SHALL REMAIN OPEN AT ALL TIMES BY ALTERNATING CONSTRUCTION OF THE AFFECTED DRIVES. THE CONTRACTOR SHALL ALSO INSTALL THE NEW SIGNAL ITEMS ON THE RIGHT SIDE OF S.R. 625 DURING THIS PHASE.

PHASE 3A - TIPPECANOE RD.

INSTALL NECESSARY TRAFFIC CONTROL DEVICES PER THE GUIDANCE IN SCD MT-102.20 AND AS SHOWN IN THE PLANS AND SHIFT TRAFFIC TRAFFIC TO THE RIGHT ON TIPPECANOE ROAD AND TO THE LEFT ON SOUTHBOUND S.R. 625 AS NEEDED TO PROVIDE ROOM FOR THE CONTRACTOR TO WORK.

CONSTRUCT THE WIDENING FOR THE SOUTH SIDE OF TIPPECANOE, UP TO AND INCLUDING THE ASPHALT SURFACE COURSE. THE CONTRACTOR SHALL INSTALL THE TRANSVERSE STORM SEWER CROSSING DURING THIS PHASE, USING FLAGGERS WHEN NEEDED. THE CONTRACTOR SHALL ENSURE DRAINAGE CONTINUITY WHEN INSTALLING PORTIONS OF THE NEW STORM SEWER PRIOR TO COMPLETE SYSTEM BUILDOUT IN THE SUBSEQUENT PHASE. THE CONTRACTOR SHALL INSTALL PORTIONS OF THE NEW SIGNAL CONVENIENT TO THIS PHASE.

PHASE 3B - TIPPECANOE RD.

INSTALL NECESSARY TRAFFIC CONTROL DEVICES PER THE GUIDANCE IN SCD MT-102.20 AND AS SHOWN IN THE PLANS AND SHIFT TRAFFIC TRAFFIC TO THE LEFT ON TIPPECANOE ROAD AND TO THE LEFT ON SOUTHBOUND S.R. 625, AS NEEDED, TO PROVIDE ROOM FOR THE CONTRACTOR TO WORK.

CONSTRUCT THE WIDENING FOR THE NORTH SIDE OF TIPPECANOE, UP TO AND INCLUDING THE ASPHALT INTERMEDIATE COURSE. THE CONTRACTOR SHALL TIE IN THE REMAINDER OF THE STORM SEWER CROSSING DURING THIS PHASE AS WELL AS THE REMAINING ITEMS OF THE NEW SIGNAL.

USING FLAGGERS, INSTALL THE SURFACE COURSE, FINAL SIGNS AND PAVEMENT MARKINGS BEFORE REOPENING THE ROAD TO NORMAL TRAFFIC OPERATIONS.

ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PERMITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMTUCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE OMTUCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

FOR WORK BETWEEN THE HOURS OF 9 PM AND 9 AM.

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIFTS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSIBILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CONSIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

IN GENERAL LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION OR AT THE POINT OF ROAD CLOSURE, AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORKZONE.

THE LEOS WORK AT THE DIRECTION OF THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COMMUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES.

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT, IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. ONCE THE LEO HAS COMPLETED THE DUTIES DESCRIBED ABOVE AND STILL HAS TIME REMAINING ON HIS/HER SHIFT, THE LEO MAY BE ASKED TO PATROL THROUGH THE WORK ZONE (WITH FLASHING LIGHTS OR BE PLACED AT A LOCATION TO DETER MOTORISTS FROM SPEEDING. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RETURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINTENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614, LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 100 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) INCURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

TRENCH FOR WIDENING

TRENCH EXCAVATION FOR BASE WIDENING SHALL BE ONLY ON ONE SIDE OF THE PAVEMENT AT A TIME. THE OPEN TRENCH SHALL BE ADEQUATELY MAINTAINED AND PROTECTED WITH DRUMS OR BARRICADES AT ALL TIMES. AS SHOWN ON MT-101.90. PLACEMENT OF PROPOSED BASE MATERIAL SHALL FOLLOW AS CLOSELY AS POSSIBLE BEHIND THE EXCAVATION OPERATIONS. THE LENGTH OF WIDENING TRENCH WHICH IS OPEN AT ANY ONE TIME SHALL BE HELD TO A MINIMUM AND SHALL AT ALL TIMES BE SUBJECT TO THE APPROVAL OF THE ENGINEER. THE BASE WIDENING ON THIS PROJECT WILL BE COMPLETED TO A DEPTH OF 3 INCHES BELOW THE EXISTING PAVEMENT BY THE END OF THE WORK DAY. NO TRENCH WILL BE LEFT OPEN OVERNIGHT. IN CASE WORK MUST BE SUSPENDED BECAUSE OF INCLEMENT WEATHER OR OTHER REASONS, THE TRENCH FOR THE UNCOMPLETED BASE WIDENING WILL BE BACKFILLED AT THE DIRECTION OF THE ENGINEER.

DROPOFFS

THE CONTRACTOR WILL NOT BE PERMITTED TO LEAVE A DIFFERENCE IN ELEVATION BETWEEN THE MAINLINE ASPHALT SURFACE COURSE AND SIDE STREET APPROACHES/DRIVEWAYS GREATER THAN 1.25 INCH. THE CONTRACTOR SHALL PLACE A 12:1 ASPHALT WEDGE FOR ALL RESULTING ELEVATION DIFFERENCES GREATER THAN 1.25 INCH PRIOR TO OPENING TO TRAFFIC. THE PAVING OF INTERSECTION APPROACHES AND DRIVEWAYS SHALL BE PERFORMED WITHIN 7 DAYS OF MAINLINE SURFACE COURSE BEING APPLIED AND A DROPOFF BEING CREATED BETWEEN THE NEW SURFACE COURSE AND THE MILLED/EXISTING SIDE ROAD OR DRIVEWAY SURFACE. THE CONTRACTOR MAY ELECT TO PLACE A 12:1 ASPHALT WEDGE IN LIEU OF COMPLETING THE PAVING, HOWEVER THE ASPHALT CONCRETE USED FOR THE WEDGE SHALL BE CONSIDERED INCIDENTAL TO ITEM 614 - MAINTAINING TRAFFIC AND SHALL INCLUDE THE REMOVAL OF THE WEDGE BEFORE THE INTERSECTION/DRIVEWAY IS PAVED.

TEMPORARY TRAFFIC SIGNAL

THIS WORK SHALL CONSIST OF FURNISHING, ERECTING, OPERATING, MAINTAINING AND REMOVING A TEMPORARY TRAFFIC SIGNALS. THE CONTRACTOR WILL SUBMIT TEMPORARY SIGNAL PLANS TO THE ENGINEER FOR APPROVAL TWO WEEKS PRIOR TO THE INSTALLATION OF THE SIGNAL. THE TEMPORARY SIGNAL WILL MEET THE REQUIREMENTS OF THE OMTUCD, PART 4. THE CONTRACTOR SHALL ARRANGE FOR AND PAY FOR POWER. ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH APPLICABLE PORTIONS OF 630, 632, 633, 730, 732 AND 733 EXCEPT: THE WORKING DRAWING REQUIREMENT OF 632.04 IS WAIVED AND USED MATERIALS IN GOOD CONDITION IS ACCEPTABLE.

THE FOLLOWING QUANTITY HAS BEEN INCLUDED FOR INFORMATIONAL PURPOSES ONLY.

WORK ZONE TRAFFIC SIGNAL 1 EACH

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC.

MAINTENANCE OF TRAFFIC GENERAL NOTES

MAH-224/625-15.51/0.00 PART 2

CALCULATED MDK CHECKED MS