

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

D04-SP-FY2017 (EAST)

**ASHTABULA, CHERRY VALLEY, DENMARK,
DORSET, JEFFERSON, KINGSVILLE,
MONROE, WAYNE TOWNSHIPS
ASHTABULA COUNTY**

**CITY OF YOUNGSTOWN
CANFIELD, POLAND, BOARDMAN, TOWNSHIPS
MAHONING COUNTY**

**BRACEVILLE, LIBERTY, FARMINGTON, FOWLER
SOUTHINGTON, VIENNA TOWNSHIPS
TRUMBULL COUNTY**

PROJECT DESCRIPTION

PARTIAL DEPTH REPAIR TO: ATB-US 20, ATB-SR 84
A TB-SR 167, A TB-SR 193, MAH-US 224, MAH-IR 680
TRU-SR 534, TRU SR 5 AND TRU SR 11, AS WELL AS
PRESSURE RELIEF JOINT REPAIRS ALONG SR 11.

PROJECT EDA: N/A (MAINTENANCE PROJECT) ESTIMATED
CONTRACTOR EDA: N/A (MAINTENANCE PROJECT) NOTICE OF
INTENT EDA: N/A (MAINTENANCE PROJECT)

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR
THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED
ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE
DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF
SECTION 5511.02 OF THE OHIO REVISED CODE.

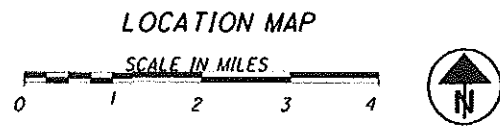
2016 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF
OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING
CHANGES 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 EXCEPT AS
NOTED ON SHEET 7, AND THAT PROVISIONS FOR THE
MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS
SET FORTH ON THE PLANS AND ESTIMATES.



FOR LOCATION MAP
SEE SHEETS 2-3



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

DESIGN DESIGNATION

ROUTE	NHS PROJECT	DESIGN FUNCTIONAL CLASSIFICATION
ATB-SR 11	YES	OTHER FREEWAY AND EXPRESSWAY
ATB-US 20	YES	PRINCIPAL ARTERIAL
ATB-SR 84	NO	MAJOR COLLECTOR
ATB-SR 167	NO	MAJOR COLLECTOR
ATB-SR 193	NO	MAJOR COLLECTOR
MAH-US 224	YES	PRINCIPAL ARTERIAL
MAH-IR 680	YES	INTERSTATE
MAH-SR 711	YES	OTHER FREEWAY AND EXPRESSWAY
TRU-SR 534	NO	MAJOR COLLECTOR
TRU-SR 711	YES	OTHER FREEWAY AND EXPRESSWAY
TRU-SR 5	YES	PRINCIPAL ARTERIAL
TRU-SR 11	YES	OTHER FREEWAY AND EXPRESSWAY

INDEX OF SHEETS:

TITLE SHEET	1
LOCATION MAPS	2-3, 3A
GENERAL NOTES	4
MAINTENANCE OF TRAFFIC	5-7
GENERAL SUMMARY	8

DESIGN EXCEPTIONS

NONE

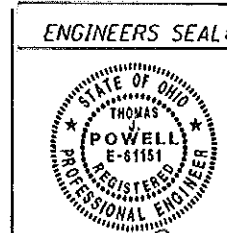
UNDERGROUND UTILITIES
CONTACT BOTH SERVICES TWO WORKING DAYS
BEFORE YOU DIG

Call Before You Dig
1-800-362-2164

(Non-members must be called directly)

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

PLAN PREPARED BY:
ODOT --- DISTRICT 4 PLANNING AND ENGINEERING
2088 SOUTH ARLINGTON RD.
AKRON, OHIO 44306



SIGNED: [Signature]
DATE: 01-30-17

STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-2.3	7/18/14	MT-99.20	7/19/13	800-2016	1/20/17
BP-3.1	7/18/14	MT-101.90	7/17/15	821	4/20/12
BP-9.1	7/19/13	MT-104.10	10/16/15	821	4/20/12
		MT-105.10	7/19/13		
MT-95.30	7/15/16				
MT-95.31	7/18/14	TC-41.20	10/18/13		
MT-95.32	7/18/14	TC-42.20	10/18/13		
MT-95.50	10/16/15	TC-52.10	10/18/13		
MT-95.60	7/19/13	TC-52.20	7/15/16		
MT-95.61	7/19/13	TC-71.10	7/15/16		
MT-97.10	7/18/14	TC-82.10	7/17/15		
MT-97.12	7/18/14				
MT-98.20	7/18/14				
MT-98.21	7/18/14				
MT-98.28	7/18/14				
MT-98.29	7/19/13				

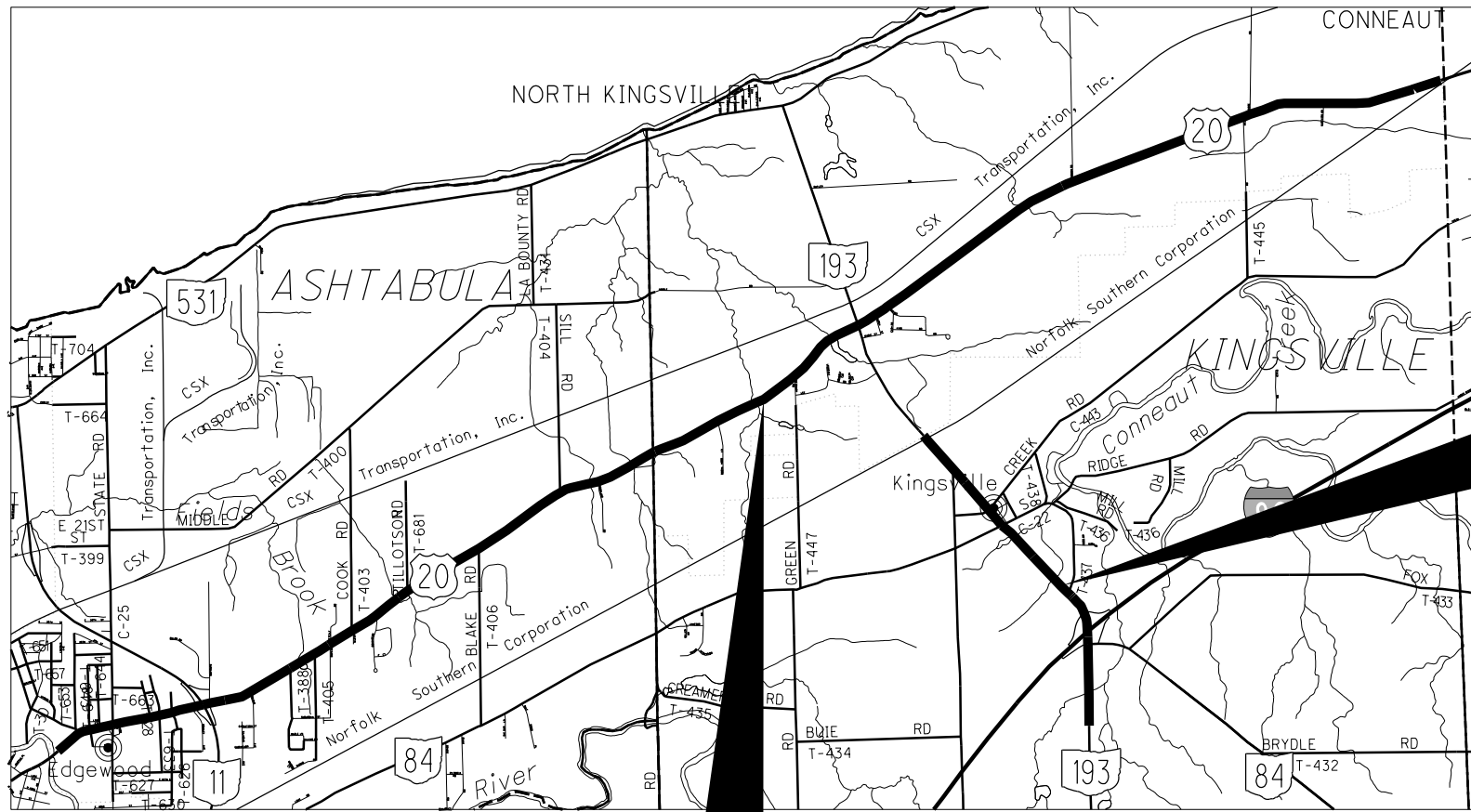
APPROVED: [Signature]
DATE: 1-30-17
DISTRICT DEPUTY DIRECTOR

APPROVED: [Signature]
DATE: 1-30-17
DIRECTOR, DEPARTMENT OF TRANSPORTATION

D04 - SP-FY2017 (East)
170262 PID - 101983
Dist 4 4/13/2017

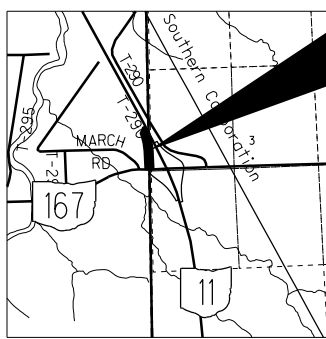
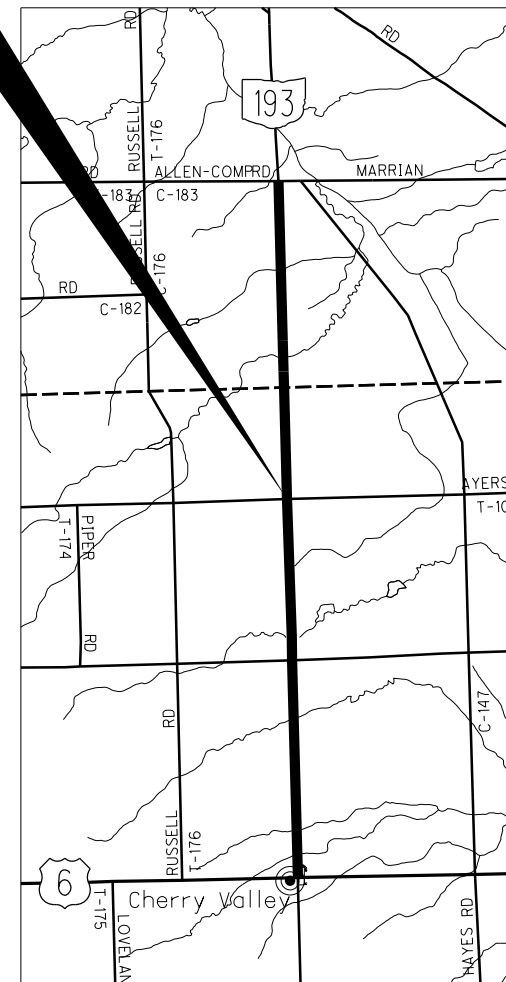
Contract Proposal Available @ www.
Contracts.dot.state.oh.us/home

FEDERAL PROJECT NO. NON-FEDERAL
PID NO. 101983
CONSTRUCT ON PROJECT NO. NONE
RAILROAD INVOLVEMENT NONE
D04-SP-FY2017 (EAST)
1/8



LOCATION 6
 ATB-SR 193
 SLM 7.45 TO SLM 10.89
 US 6 TO MM 10.8
 LATITUDE: 41°38'26"
 LONGITUDE: 80°40'2"

LOCATION 7
 ATB-SR 193
 (INCLUDES SR 84 OVERLAP (SLM 19.74 TO SLM 20.60))
 SLM 19.75 TO SLM 20.60
 SOUTH OF I-90 TO N. KINGSVILLE SOUTH CORP.
 LATITUDE: 41°52'16"
 LONGITUDE: 80°39'60"

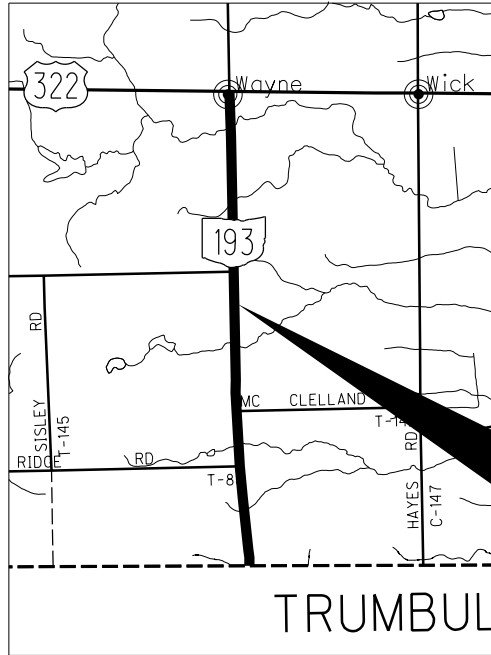


LOCATION 1
 ATB-SR 11
 SLM 17.42 TO SLM 17.47
 SB EXIT RAMP TO SR 167
 LATITUDE: 41°45'8"
 LONGITUDE: 80°42'48"

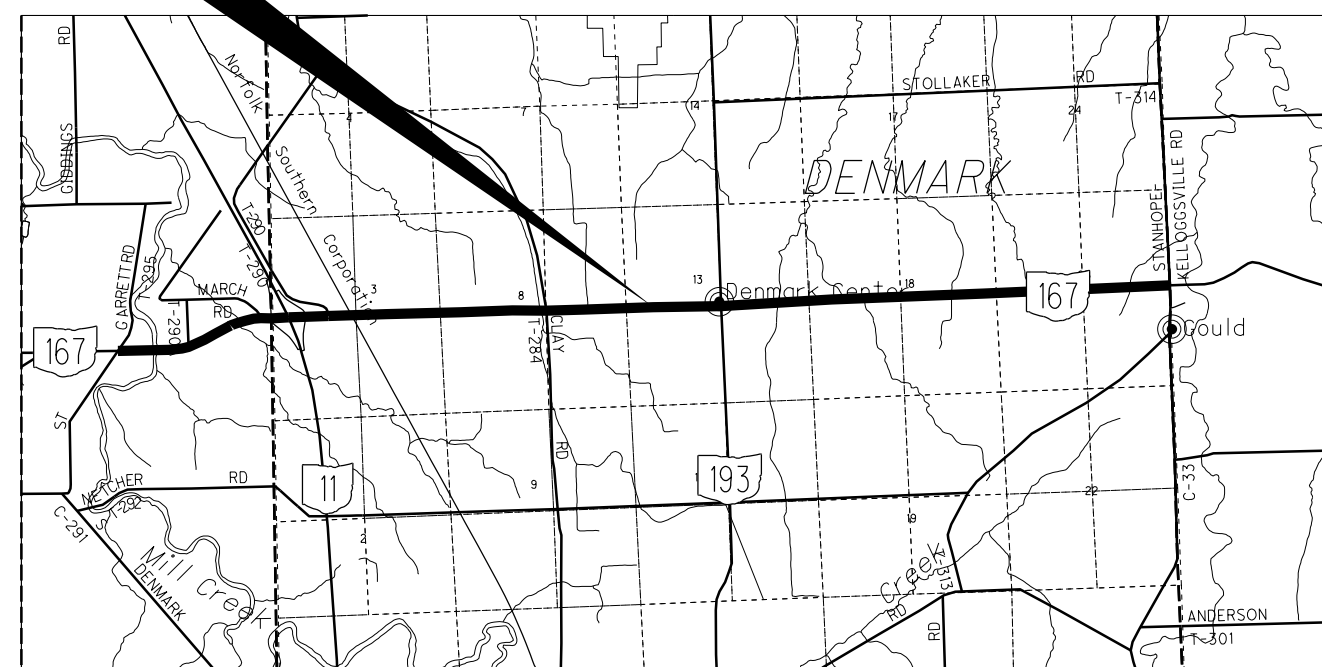
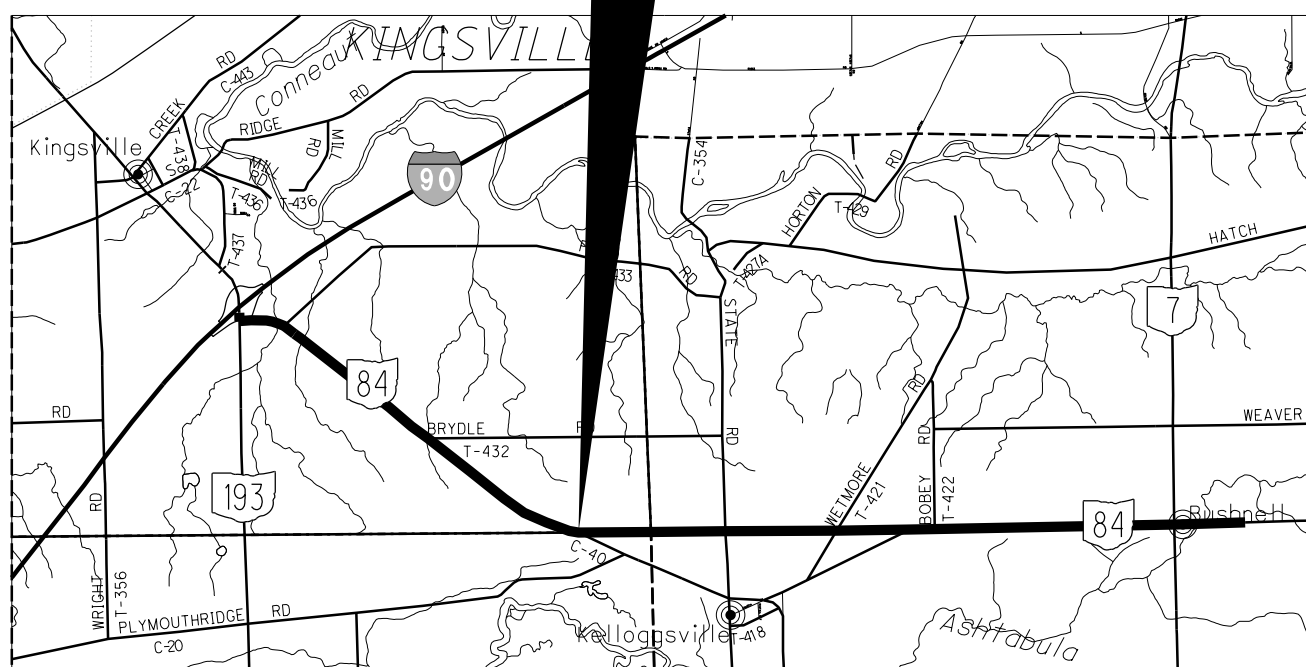
LOCATION 2
 ATB-US 20
 SLM 12.87 TO SLM 21.61
 ASHTABULA EAST CORP TO CONNEAUT WEST CORP
 LATITUDE: 41°54'30"
 LONGITUDE: 80°41'9"

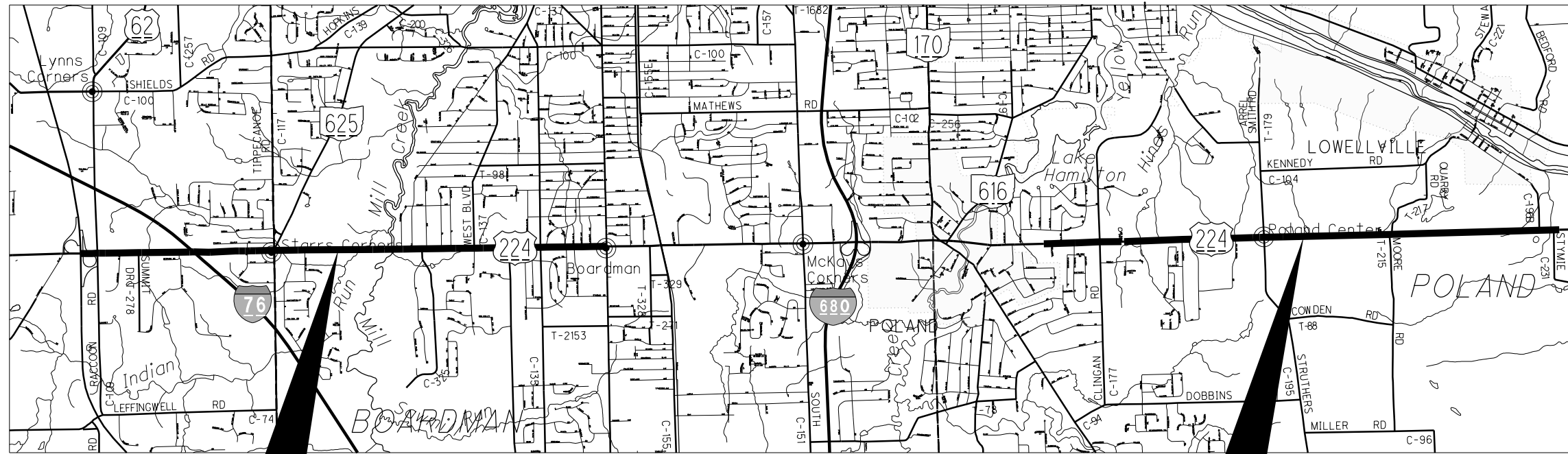
LOCATION 3
 ATB-SR 84
 SLM 20.60 TO SLM 26.5
 SR 193 TO EAST OF SR 7
 LATITUDE: 41°52'5"
 LONGITUDE: 80°38'36"

LOCATION 4
 ATB-SR 167
 SLM 2.17 TO SLM 7.69
 MM 2.17 TO 7.69 (STANHOPE-KELLOGGSVILLE RD)
 LATITUDE: 41°45'5"
 LONGITUDE: 80°41'12"



LOCATION 5
 ATB-SR 193
 SLM 0.00 TO SLM 2.47
 TRU CO. LINE TO US 322
 LATITUDE: 41°31'0"
 LONGITUDE: 80°39'58"





LOCATION 8
 MAH-US 224
 SLM 13.94 TO SLM 17.81
 SR 7 TO RACCOON RD.
 LATITUDE: 41°1'28"
 LONGITUDE: 80°42'16"

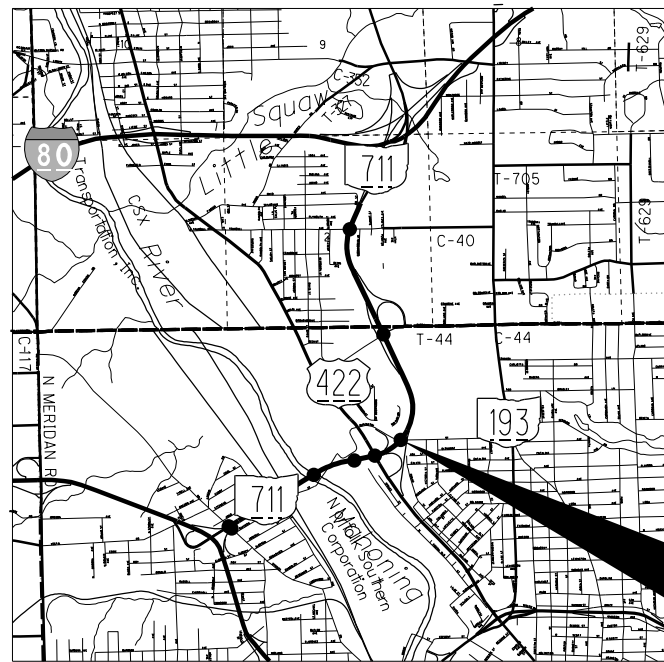
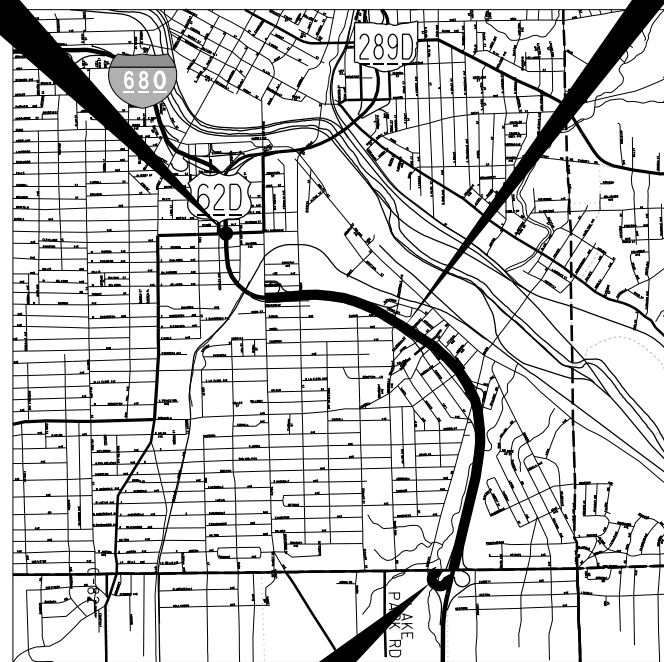
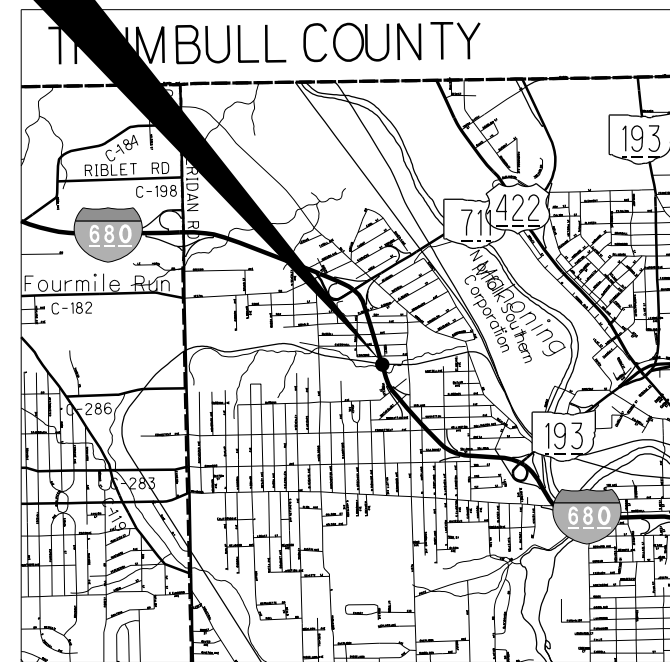
LOCATION 9
 MAH-US 224
 SLM 21.12 TO SLM 25.00
 TALA DR. TO STYME RD
 LATITUDE: 41°1'26"
 LONGITUDE: 80°34'11"

LOCATION 10
 MAH-IR 680
 SLM 3.42
 BRIDGE OVER RAILROAD
 LATITUDE: 41°7'5"
 LONGITUDE: 80°41'40"

LOCATION 11
 MAH-IR 680
 SLM 6.63
 SB AT MM 6.63 UNDER WILLIAMSON AVE
 LATITUDE: 41°5'11"
 LONGITUDE: 80°39'1"

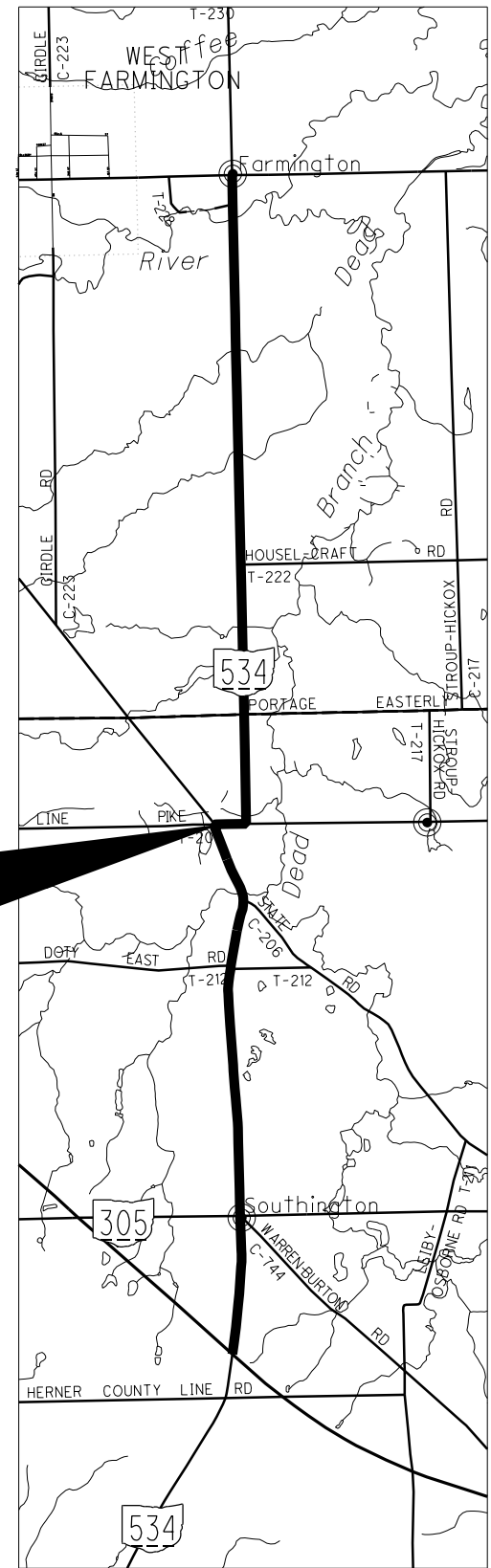
LOCATION 12
 MAH-IR 680
 SLM 7.05 TO SLM 11.75
 SOUTH AVE TO US 224
 LATITUDE: 41°4'42"
 LONGITUDE: 80°37'53"

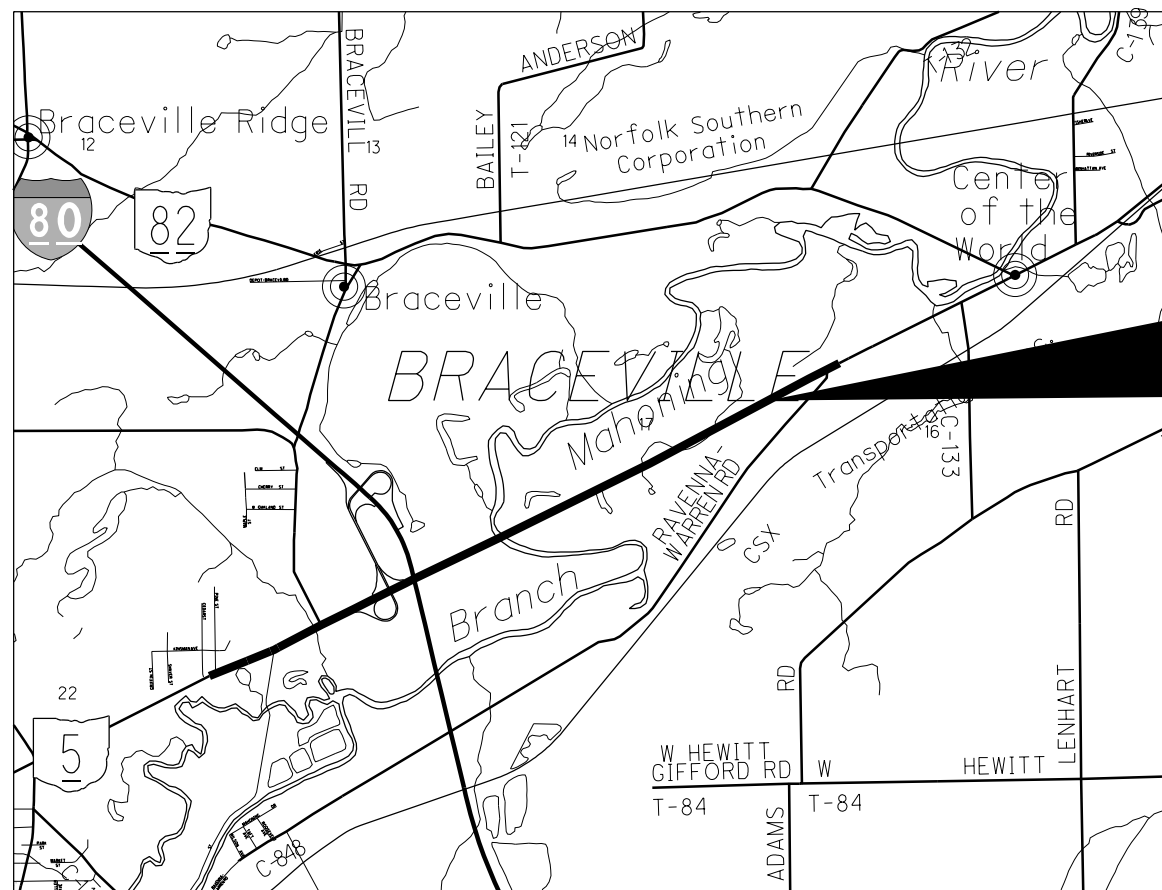
LOCATION 14
 TRU-SR 534
 SLM 12.50 TO SLM 19.26
 US 422 TO SR 88
 LATITUDE: 41°20'33"
 LONGITUDE: 80°57'16"



LOCATION 13
 MAH-IR 680
 SLM 11.80 TO SLM 11.90
 SB EXIT RAMP TO US 224 EB
 LATITUDE: 41°3'34"
 LONGITUDE: 80°37'46"

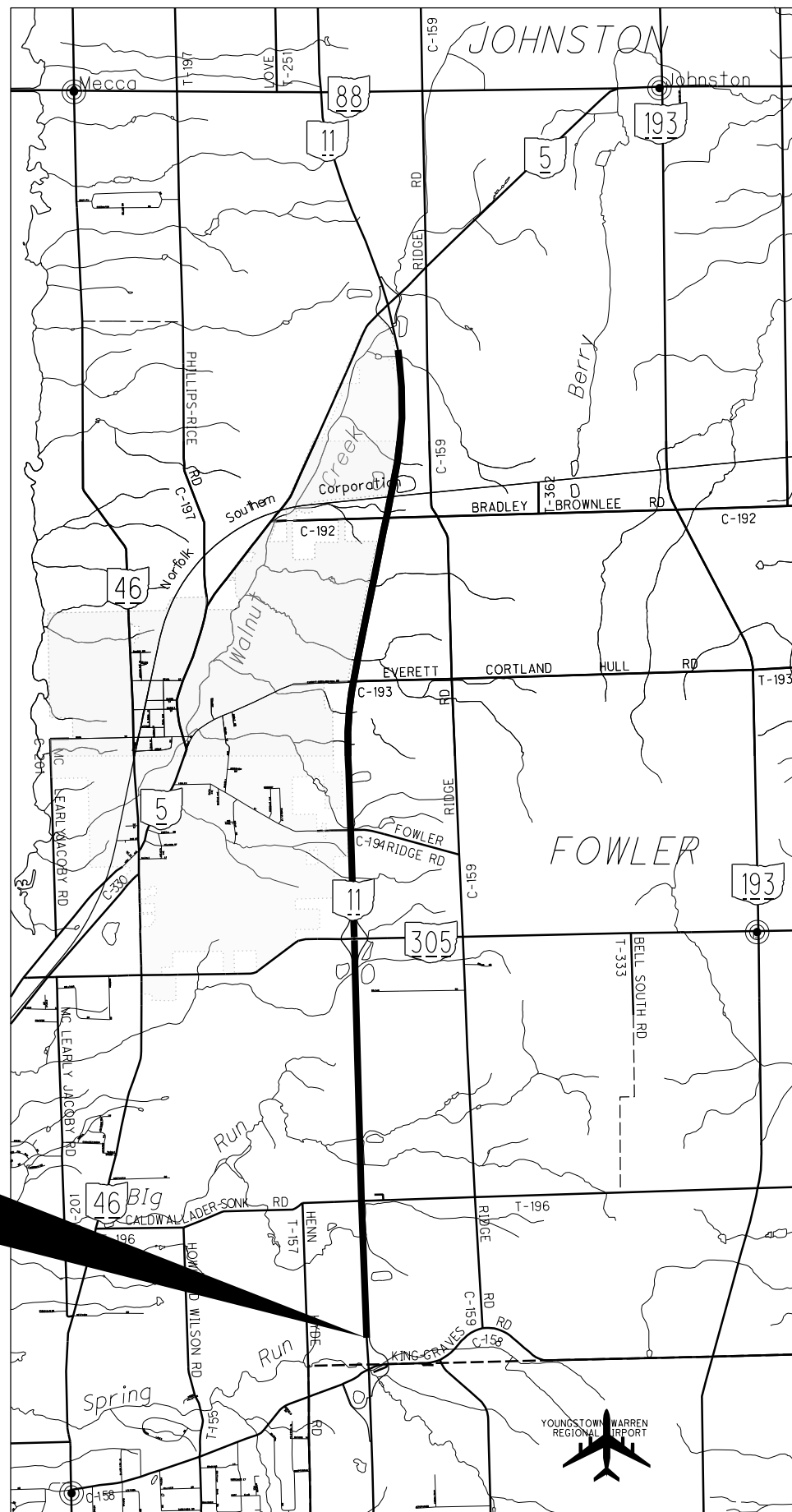
LOCATION 15
 MAH/TRU-SR 711
 MAH-11-0036, MAH-11-0036R, MAH-11-0067,
 MAH-11-0113, MAH-11-0123, MAH-11-0141,
 MAH-11-0200, TRU-711-0054
 LATITUDE: 41°7'27"
 LONGITUDE: 80°40'39"





LOCATION 15
 TRU-SR 5
 SLM 2.43 TO SLM 4.82
 0.11 MILES WEST OF PINE ST TO
 0.20 MILES EAST OF RAVENNA WARREN RD
 LATITUDE: 41°12'34"
 LONGITUDE: 80°57'42"

LOCATION 16
 TRU-SR 11
 SLM 12.67 TO SLM 19.02
 0.08 MILES N OF KINGS GRAVE RD TO
 0.09 MILES S OF RAMP TO SR 5
 LATITUDE: 41°16'20"
 LONGITUDE: 80°42'15"



CALCULATED
 CNC
 CHECKED
 CNC

LOCATION MAP
 TRUMBULL COUNTY

D04-SP-FY2017
 (EAST)

UTILITIES

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

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE OHIO UTILITIES PROTECTION SERVICE (OUPS), THE OHIO & GAS PROCEDURES UNDERGROUND PROTECTION SERVICE (OGPUPS), THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 4 HEAD-QUARTERS AND ALL NON REGISTERED UTILITY OWNERS AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION IN ALL AREAS.

OUPS 1-800-362-2764 (CONTACT LIMITED BASIS PARTICIPANTS DIRECTLY)
 OGPUPS 1-800-925-0988
 ODOT 330-786-3145 KEN GREENE

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE NOT SHOWN ON THE PLANS, BUT CAN BE OBTAINED FROM THE OWNERS OF THE UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES.

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.

PAVEMENT MARKINGS

THE FOLLOWING QUANTITIES HAVE BEEN PROVIDED TO BE USED AS DIRECTED BY THE PROJECT ENGINEER TO MATCH EXISTING PAVEMENT MARKINGS. THE UNIT BID PRICES ON THESE PAY ITEMS WILL NOT BE ADJUSTED AS PER CMS 104.02.D.

- ITEM 642- EDGE LINE, 4", 3 MILES
- ITEM 642- EDGE LINE, 6", 1 MILE
- ITEM 642- LANE LINE, 4", 2 MILE
- ITEM 642- LANE LINE, 6", 2 MILE
- ITEM 642- CENTER LINE, 2 MILES
- ITEM 642- CHANNELIZING LINE, 12", 400 FEET
- ITEM 642- STOP LINE, 100 FEET
- ITEM 642- CROSSWALK LINE, 100 FEET
- ITEM 642- LANE ARROW, 6 EACH

ITEM 621 - RAISED PAVEMENT MARKERS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN PROVIDED AND SHALL BE USED AS DIRECTED BY THE ENGINEER FOR THE REMOVAL AND DISPOSAL OF EXISTING RAISED PAVEMENT MARKERS THAT ARE WITHIN THE LIMITS OF THE PAVEMENT REPAIRS AS NEEDED.

ALL EQUIPMENT, MATERIALS AND LABOR REQUIRED TO PERFORM THIS WORK SHALL BE INCLUDED UNDER THE CONTRACT BID PRICE. QUANTITY THAT WILL BE CARRIED TO THE GENERAL SUMMARY:

621, RAISED PAVEMENT MARKER REMOVED 30 EA.

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (441)

A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THE ITEM SHALL CONSIST OF REPAIRING EXISTING LOCATIONS EXHIBITING SURFACE DETERIORATION AND PLACING ITEM 441 ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, (PG64-22). THE ASPHALT CONCRETE SHALL BE COMPACTED WITH A STEEL WHEEL ROLLER AS PER 401.13. IT IS NOT THE INTENT TO REPAIR EVERY DETERIORATED AREA WITHIN THE PROJECT. EACH REPAIR SHALL BE AS DIRECTED BY THE ENGINEER AND MAY VARY IN WIDTH BUT SHALL NOT BE LESS THAN 18 INCHES. THE ENGINEER SHALL DETERMINE WHICH AREAS ARE TO BE REPAIRED. PAYMENT SHALL BE BASED ON THE ACTUAL NUMBER OF SQUARE YARDS OF PAVEMENT REPAIR. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:
 251, PARTIAL DEPTH PAVEMENT REPAIR (441), 30190 SQ. YD.

BREAKDOWN OF TOTAL BY LOCATIONS:

LOCATION 1
 ATB-SR 11
 SLM 17.42 TO SLM 17.47
 SB EXIT RAMP TO SR 167
 251, PARTIAL DEPTH PAVEMENT REPAIR, 350 SQ. YD.

LOCATION 2
 ATB-US 20
 SLM 12.87 TO SLM 21.61
 ASHTABULA EAST CORP TO CONNEAUT WEST CORP
 251, PARTIAL DEPTH PAVEMENT REPAIR, 370 SQ. YD.

LOCATION 3
 ATB-SR 84
 SLM 20.60 TO SLM 26.5
 SR 193 TO EAST OF SR 7
 251, PARTIAL DEPTH PAVEMENT REPAIR, 1550 SQ. YD.

LOCATION 4
 ATB-SR 167
 SLM 2.17 TO SLM 7.69
 MM 2.17 TO 7.69 (STANHOPE-KELLOGGSDALE RD)
 251, PARTIAL DEPTH PAVEMENT REPAIR, 3900 SQ. YD.

LOCATION 5
 ATB-SR 193
 SLM 0.00 TO SLM 2.47
 TRU CO. LINE TO US 322
 251, PARTIAL DEPTH PAVEMENT REPAIR, 860 SQ. YD.

LOCATION 6
 ATB-SR 193
 SLM 7.45 TO SLM 10.89
 US 6 to MM 10.89
 251, PARTIAL DEPTH PAVEMENT REPAIR, 5500 SQ. YD.

LOCATION 7
 ATB-SR 193 (INCLUDES SR 84 OVERLAP)
 SLM 26.00 TO SLM 27.95
 SOUTH OF I-90 TO N. KINGSDALE SOUTH CORP.
 251, PARTIAL DEPTH PAVEMENT REPAIR, 120 SQ. YD.

LOCATION 8
 MAH-US 224
 SLM 13.94 TO SLM 17.81 SR 7 TO RACCOON RD
 251, PARTIAL DEPTH PAVEMENT REPAIR, 550 SQ. YD.

LOCATION 9
 MAH-US 224
 SLM 21.12 TO SLM 25.00
 TALA DR. TO STYME RD
 251, PARTIAL DEPTH PAVEMENT REPAIR, 1250 SQ. YD.

LOCATION 10
 MAH-IR 680
 SLM 3.42
 BRIDGE OVER RAILROAD
 251, PARTIAL DEPTH PAVEMENT REPAIR, 70 SQ. YD.

LOCATION 11
 MAH-IR 680
 SLM 6.63
 SB AT MM 6.63 UNDER WILLIAMSON AVE
 251, PARTIAL DEPTH PAVEMENT REPAIR, 70 SQ. YD.

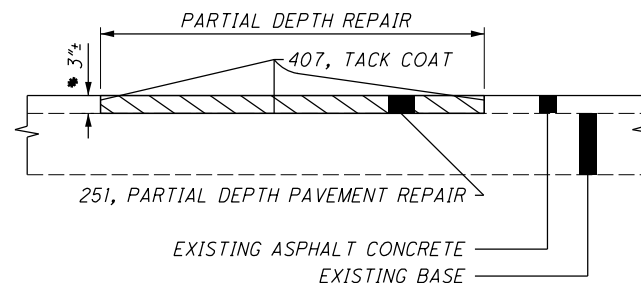
LOCATION 12
 MAH-IR 680
 SLM 7.05 TO SLM 11.75
 SOUTH AVE TO US 224
 251, PARTIAL DEPTH PAVEMENT REPAIR, 2100 SQ. YD.

LOCATION 13
 MAH-IR 680
 SLM 11.80 TO SLM 11.90
 SB EXIT RAMP TO US 224 EASTBOUND
 251, PARTIAL DEPTH PAVEMENT REPAIR, 3100 SQ. YD.

LOCATION 14
 TRU-SR 534
 SLM 12.50 TO SLM 19.26
 US 422 TO SR 88
 251, PARTIAL DEPTH PAVEMENT REPAIR, 4400 SQ. YD.

LOCATION 15
 TRU-SR 5
 SLM 2.43 TO SLM 4.82
 0.11 MILES W OF PINES ST TO 0.20 MILES EAST OF RAVENNA WARREN RD
 251, PARTIAL DEPTH PAVEMENT REPAIR, 2000 SQ. YD.

LOCATION 16
 TRU-SR 11
 SLM 12.67 TO SLM 19.02
 0.08 MILES N OF KINGSDALE RD TO 0.09 MILES S OF RAMP TO SR 5
 251, PARTIAL DEPTH PAVEMENT REPAIR, 4000 SQ. YD.



ITEM SPECIAL - PRESSURE RELIEF JOINT, TYPE A

THIS ITEM OF WORK SHALL CONSIST OF REPAIRING EXISTING PRESSURE RELIEF JOINTS WITHIN THE LIMITS OF THE PROJECT BY REMOVAL OF THE EXISTING ASPHALT AND REPLACING WITH ITEM 441, ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448). SEE STANDARD CONSTRUCTION DRAWING BP-2.3 FOR ADDITIONAL DETAILS.

PAYMENT: MEASUREMENT OF THE PRESSURE RELIEF JOINT FOR PAYMENT PURPOSES SHALL BE ALONG THE CENTERLINE OF THE SLEEPER SLAB 1) BETWEEN THE OUTSIDE EDGES OF CONCRETE SHOULDERS, 2) BETWEEN THE BACKS OF CURB, AND 3) BETWEEN THE EDGES OF PAVEMENT WHEN ASPHALT SHOULDERS ARE USED, PAYMENT SHALL BE PER FOOT OF ITEM SPECIAL - PRESSURE RELIEF JOINT, TYPE A AND SHALL INCLUDE SAW CUTTING AND REMOVAL OF EXISTING PAVEMENT, ITEM 441, AND ALL LABOR, MATERIALS AND INCIDENTALS NEEDED TO CONSTRUCT THE JOINT AS NOTED ABOVE. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:
 SPECIAL - PRESSURE RELIEF JOINT, TYPE A, 1008 FT.

BREAKDOWN OF TOTAL BY STRUCTURE:

STRUCTURE MAH-711-0036 (FORWARD ABUTMENTS) SPECIAL, PRESSURE RELIEF JOINT, TYPE A	70 FT
STRUCTURE MAH-711-0036 R (FORWARD ABUTMENT) SPECIAL, PRESSURE RELIEF JOINT, TYPE A	37 FT
STRUCTURE MAH-711-0067 SPECIAL, PRESSURE RELIEF JOINT, TYPE A	146 FT
STRUCTURE MAH-711-0113 SPECIAL, PRESSURE RELIEF JOINT, TYPE A	212 FT
STRUCTURE MAH-711-0123 SPECIAL, PRESSURE RELIEF JOINT, TYPE A	231 FT
STRUCTURE MAH-711-0141 SPECIAL, PRESSURE RELIEF JOINT, TYPE A	61 FT
STRUCTURE MAH-711-0200 SPECIAL, PRESSURE RELIEF JOINT, TYPE A	191 FT
STRUCTURE TRU-711-0054 SPECIAL, PRESSURE RELIEF JOINT, TYPE A	60 FT

COMMUNITY NOTIFICATION

THE CONTRACTOR WILL ADVISE THE ODOT PROJECT ENGINEER A MINIMUM OF TWENTY-ONE (21) DAYS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR MUST ALSO PROVIDE NOTIFICATION TO THE ODOT PROJECT ENGINEER A MINIMUM OF TWENTY-ONE (21) DAYS PRIOR TO ANY LANE RESTRICTIONS. THE ODOT PROJECT ENGINEER WILL FORWARD THE INFORMATION TO THE ODOT, DISTRICT 4 OFFICE OF PUBLIC INFORMATION FOR USE TO NOTIFY EMERGENCY SERVICES, SCHOOL SYSTEMS AND COMMUNITIES A MINIMUM OF FOURTEEN (14) DAYS PRIOR TO THE START OF PROJECT CONSTRUCTION. INCLUDED IN THIS NOTIFICATION WILL BE THE PROJECTED DATES OF ANY LANE RESTRICTIONS REQUIRED BY THE PROJECT.

ITEM 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), AS PER PLAN, (PG64-22)

703.05 DO NOT USE COARSE AGGREGATE FROM A SOURCE DESIGNATED 'SR' OR 'SRH' ACCORDING TO THE OFFICE OF MATERIALS MANAGEMENT (OMM) IN ANY JOB MIX FORMULA (JMF) FOR THIS ITEM.

I:\ProjectData\04\Spot_paving\01983_SPFY2017_EAST_Design\Roadway\Sheet\01983_GN001.dgn Sheet 1/23/2017 2:31:34 PM ccopelan

CALCULATED BFR	CHECKED CNC	GENERAL NOTES
D04-SP-FY2017 (EAST)		4 8

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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. THREE OR MORE LANE SECTIONS:
A MINIMUM OF ONE TEN FOOT LANE IN EACH DIRECTION SHALL BE MAINTAINED ON THE EXISTING PAVEMENT (COMPLETED PAVEMENT AND TEMPORARY PAVEMENT) DURING CONSTRUCTION OF THE WORK.

TWO LANE UNDIVIDED SECTIONS:
A MINIMUM OF ONE TEN FOOT BIDIRECTION LANE SHALL BE MAINTAINED ON THE EXISTING PAVEMENT (COMPLETED PAVEMENT AND TEMPORARY PAVEMENT) DURING CONSTRUCTION OF THE WORK.

2. THE CONTRACTOR SHALL INFORM THE DISTRICT OFFICE (330) 786-2208, EIGHTEEN (18) DAYS PRIOR TO THE BEGINNING OF WORK.

3. LANE RESTRICTIONS OR LANE REDUCTIONS SHALL NOT BE PERMITTED AFTER NORMAL WORKING HOURS. NORMAL WORKING HOURS SHALL BE THOSE HOURS DURING WHICH THE CONTRACTOR HAS A FULL COMPLEMENT OF EMPLOYEES AND EQUIPMENT ACTIVELY REMOVING AND/OR PLACING PAVEMENT MATERIALS.

5. TRUCK MOUNTED ATTENUATORS [TMA'S] SHALL BE USED AS SHOWN IN THE STANDARD CONSTRUCTION DRAWINGS.

6. ALL PARTIAL 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.

7. 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.

8. ONLY DURING OFF-PEAK PERIODS (ie ANY PERIOD OTHER THAN 6-8AM AND 3-6PM) SHALL THE CONTRACTOR INSTALL AND SUBSEQUENTLY RESET ALL TRAFFIC CONTROL NECESSARY FOR THE WORK ZONE FOR EACH CONSTRUCTION PHASE.

9. RESIDENTIAL AREAS:
NO WORK WILL BE PERMITTED BETWEEN 10:00 PM AND 6:00 AM DAILY

10. A QUANTITY OF 10 CU. YDS. OF ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC SHALL BE PROVIDED FOR USE IN MAINTAINING PAVEMENT, SHOULDERS 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.

12. THE CONTRACTOR SHALL PLACE THE SIGNS: W8-1 [BUMP] PER OMUTCD 2C.28; W8-11 [UNEVEN LANES] PER OMUTCD 6F.45; AND W6-3 [TWO-WAY TRAFFIC] PER OMUTCD 6F.32. PAYMENT FOR THESE SIGNS SHALL BE INCIDENTAL TO THE LUMP SUM ITEM 614-MAINTAINING TRAFFIC. A QUANTITY OF ITEM 614 WORK ZONE MARKING SIGNS HAS BEEN INCLUDED IN THE PLANS PER CMS 614.04.

THE FOLLOWING QUANTITIES SHALL BE USED FOR THE MAINTENANCE OF TRAFFIC ON THIS PROJECT:
614, WORK ZONE MARKING SIGN,(ALL PHASES) 50 EACH

TRAFFIC CONTROL INSPECTOR

THE CONTRACTOR SHALL DESIGNATE AN INDIVIDUAL OTHER THAN THE SUPERINTENDENT AND SUBJECT TO THE APPROVAL OF THE ENGINEER, TO CONTINUOUSLY INSPECT ALL TRAFFIC CONTROL DEVICES WHENEVER CONSTRUCTION WORK IS BEING PERFORMED WITHIN THE WORK LIMITS OF THE PROJECT. THE DESIGNATED INDIVIDUAL SHALL ALSO INSPECT ALL TRAFFIC DEVICES AT THE BEGINNING AND AT THE END OF EACH WORK DAY. THE DESIGNATED INDIVIDUAL OR A QUALIFIED REPRESENTATIVE SHALL ALSO BE AVAILABLE ON AN AROUND THE CLOCK BASIS TO REPAIR AND/OR REPLACE DAMAGED OR MISSING TRAFFIC CONTROL DEVICES. THESE INDIVIDUALS SHALL BE EQUIPPED WITH CELLULAR PHONES AND THEIR NAMES AND PHONE NUMBERS SHALL BE GIVEN TO THE PROJECT ENGINEER AT THE PRE-CONSTRUCTION MEETING. THE DESIGNATED INDIVIDUAL SHALL HAVE NO OTHER CONSTRUCTION RELATED DUTIES. PAYMENT FOR THE SERVICES OF THE TRAFFIC CONTROL INSPECTOR SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

WINTER TRAFFIC LIMITATIONS

ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC BETWEEN NOVEMBER 15 AND APRIL 1. NOVEMBER 14 SHALL BE CONSIDERED TO CONSTITUTE AN INTERIM COMPLETION DATE AND DISINCENTIVES OF \$1000 SHALL BE ASSESSED FOR EACH CALENDAR DAY THAT THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT. THE CONTRACTOR MAY CLOSE LANES PRIOR TO APRIL 1 WITH WRITTEN APPROVAL FROM THE DISTRICT CONSTRUCTION ENGINEER.

COOPERATION BETWEEN CONTRACTORS

THE CONTRACTOR SHALL BE ADVISED THAT PROJECTS

- SR 84: ATB-84-0.00/3.05 (PID 100318)
- SR 193: ATB-193-2.47 (PID 88881)
- SR 167: ATB-193-18.19/18.77/22.27 (PID 99410)
- ATB-167-7.69 (PID 88877)
- SR 534: TRU-TR204-0.00 (PID 97632)

MAY BE ONGOING IN AN AREA IMMEDIATELY ADJACENT TO AND WITHIN THE PROJECT LIMITS OF THIS PROJECT. THE CONTRACTOR SHALL SCHEDULE HIS WORK SO AS TO CAUSE A MINIMUM OF DELAY OR CONFLICT WITH THE OTHER PROJECTS. IN ACCORDANCE WITH 105.08, THE CONTRACTOR SHALL ARRANGE WITH THE OTHER CONTRACTORS APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL RECIEVE DAILY APPROVALS FROM THE ENGINEER PRIOR TO COMMENCING ANY OPERATIONS. ANY CONFLICT BETWEEN CONTRACTORS INVOLVING WORK SCHEDULES, WORK AREA, OR COOPERATION SHALL BE RESOLVED BY THE ENGINEER. COMPENSATION FOR THE ABOVE COOPERATION SHALL BE INCIDENTAL TO THE VARIOUS PAY ITEMS INCLUDED WITHIN THIS PROJECT.

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 OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF C&MS 614 AND THE OMUTCD, 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:

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).

IN ADDITION TO THE REQUIREMENT OF C&MS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCEMENT AGENCY) SHOULD BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS AS APPROVED BY THE ENGINEER:

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).

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 WORK ZONES.

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.

THE LEOS WORK AT THE DIRECTION OF THE CONTRACTOR. 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 OFF) 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 500 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.

CALCULATED	BFR	CHECKED	CNC
MAINTENANCE OF TRAFFIC GENERAL NOTES			
D04-SP-FY2017 (EAST)			
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LANE CLOSURES (SR-II, I-680, SR-711)

DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AS PER THE PERMITTED LANE CLOSURE CHART. THE PERMITTED LANE CLOSURE CHART USED FOR THIS PROJECT SHALL BE THE MOST CURRENT CHART AVAILABLE ON THE DATE THIS PROJECT SELLS.

THE CHART CAN BE FOUND AT:
<http://plcm.dot.state.oh.us>

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THE REQUIREMENTS IN THE CHART, THE CONTRACTOR SHALL BE ASSESSED DISINCENTIVES IN THE AMOUNT OF \$2500 PER HOUR OR PORTION THEREOF THAT THE LANE REDUCTION REMAINS BEYOND THE SPECIFIED LIMIT.

DETOUR NOTIFICATION [ODOT/MAHONING COUNTY ENGINEERS]

THE CONTRACTOR SHALL ADVISE THE ODOT DISTRICT OFFICE (330-786-3148) AND MAHONING COUNTY (330-799-1581) EIGHTEEN (18) DAYS IN ADVANCE OF WHEN THE DETOUR ROUTE SHOULD BE IN EFFECT. ALL WORK ZONE DEVICES REQUIRED SHALL BE FURNISHED, ERECTED, MAINTAINED, AND SUBSEQUENTLY REMOVED BY THE CONTRACTOR. PAYMENT FOR ALL WORK ASSOCIATED WITH THE DETOUR SHALL BE INCLUDED UNDER THE LUMP SUM BID FOR ITEM 614, DETOUR SIGNING.

ITEM 614, MAINTAINING TRAFFIC (TIME LIMITATION ON A DETOUR) FOR RAMP L (IR 680 TO SR 224 EAST)

THE RAMP SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED TWO CONSECUTIVE CALENDAR NIGHTS, WHEN TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET 7 NO TRAFFIC SHALL BE PLACED ON A MILLED SURFACE. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$2500 FOR EACH DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

RAMP L
WORK PERFORMED: PARTIAL DEPTH PAVEMENT REPAIR ON RAMP
PERMITTED CLOSURE TIME: MON 7:00 PM - TUES 6:00 AM
TUES 7:00 PM - WED 6:00 AM

ITEM 614, MAINTAINING TRAFFIC (TIME LIMITATION ON A DETOUR) FOR RAMP L (SR 711 TO STEPHENS ST), RAMP 1 (US 422 TO SR 711 EB), AND RAMP 2 (SR 711 WB TO US 422)

THE RAMPS SHALL BE MAINTAINED AT ALL TIMES EXCEPT FOR A PERIOD NOT TO EXCEED ONE CALENDAR NIGHT (7PM-6AM), WHEN TRAFFIC MAY BE DETOURED AS SHOWN ON SHEET 7 A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$2500 FOR EACH DAY THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT.

RAMP B
WORK PERFORMED: PRESSURE RELIEF JOINT REPAIR ON STRUCTURE MAH-711-0067
PERMITTED CLOSURE TIME: 7:00 PM - 6:00 AM

RAMP 1
WORK PERFORMED: PRESSURE RELIEF JOINT REPAIR ON STRUCTURE MAH-711-0123
PERMITTED CLOSURE TIME: 7:00 PM - 6:00 AM

RAMP 2
WORK PERFORMED: PRESSURE RELIEF JOINT REPAIR ON STRUCTURE MAH-711-0123
PERMITTED CLOSURE TIME: 7:00 PM - 6:00 AM

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A CHANGEABLE MESSAGE SIGN. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS AVAILABLE ON THE (OFFICE OF MATERIALS MANAGEMENT WEB PAGE). THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 800 FEET AND 650 FEET, RESPECTIVELY.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON-SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. The PCMS shall be delineated in accordance with C&MS 614.03.

THE PROBABLE PCMS LOCATIONS AND WORK LIMITS FOR THOSE LOCATIONS ARE SHOWN ON SHEET(S) OF THE PLAN. PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED AWAY FROM ALL TRAFFIC.

THE ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ODOT PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY.

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRE-CONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMS FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE. THE PCMS SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK.

THE PCMS UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF C&MS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS, WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMS, TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE DEPARTMENT TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE DEPARTMENT DUE TO THE CONTRACTOR'S NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON HIS CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

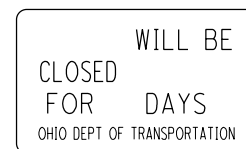
PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN 12 SIGN MONTH

ASSUMING 12 PCMS SIGNS FOR 1 MONTH

ITEM 614, MAINTAINING TRAFFIC (NOTICE OF CLOSURE SIGN)

NOTICE OF CLOSURE SIGNS, AS DETAILED IN THESE PLANS, SHALL BE ERECTED BY THE CONTRACTOR AT LEAST ONE WEEK IN ADVANCE OF THE SCHEDULED ROAD OR RAMP CLOSURE. THE SIGNS SHALL BE ERECTED ON THE RIGHT-HAND SIDE OF THE ROAD/RAMP FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. ON ROADWAYS, THEY SHOULD BE ERECTED AT THE POINT OF CLOSURE. THE SIGNS MAY BE ERECTED ANYWHERE ON RAMPS AS LONG AS THEY ARE VISIBLE TO THE MOTORISTS USING THE RAMP. ON ENTRANCE RAMPS, THE SIGN SHALL BE ERECTED WELL IN ADVANCE OF THE MERGE AREA TO AVOID DISTRACTING MOTORISTS.



W20-H14-60

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MAINTENANCE OF TRAFFIC GENERAL NOTES

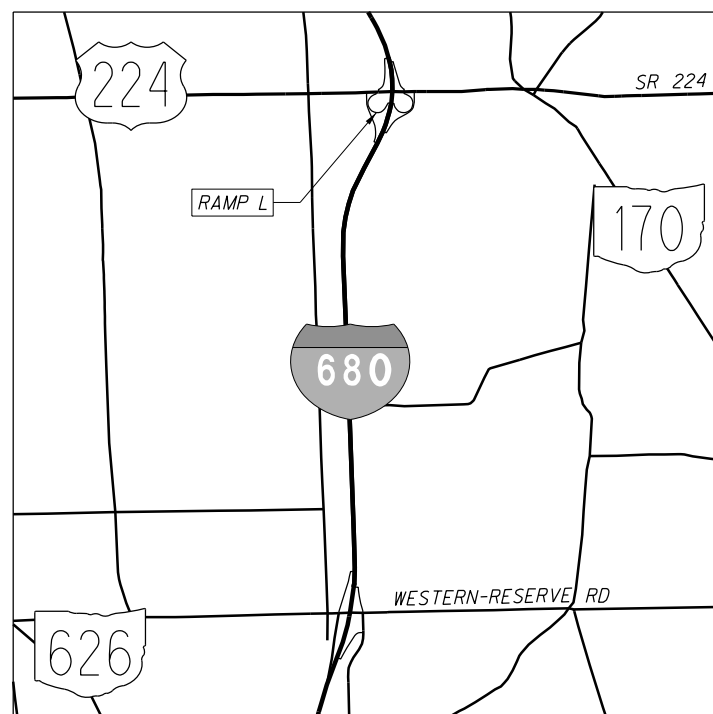
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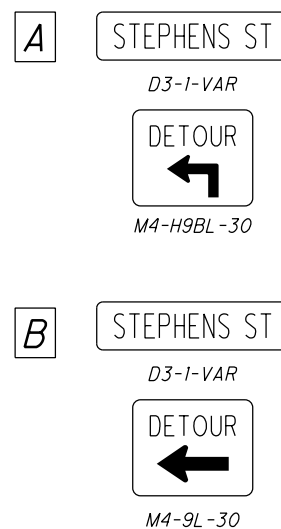
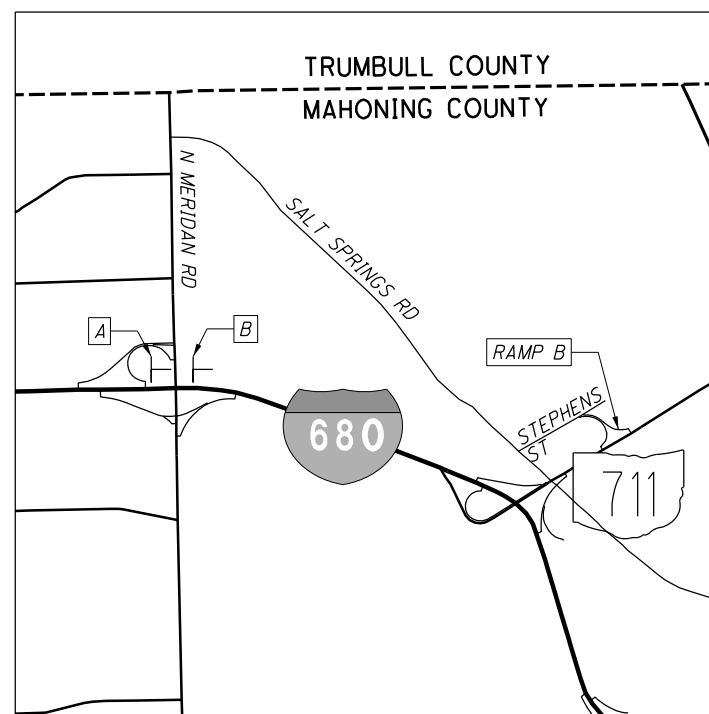
RAMP	RAMP DESCRIPTION	CLOSURE TIMES	DURATION	DETOUR ROUTE	NUMBER OF PCMS	REFERENCE	ADDITIONAL RESTRICTIONS
RAMP L	SB IR 680 TO SR 224 EB	7:00 PM - 6:00 AM	2 CONSECUTIVE NIGHTS	I-680 SOUTH/WESTERN-RESERVE RD/I-680 NORTH	3	DETAIL A	SEE SHEET 6
RAMP B	SR 711 WB TO STEPHENS ST	7:00 PM - 6:00 AM	1 NIGHT	I-680 NORTH/MERIDIAN RD/SALT SPRINGS RD	3	DETAIL B	SEE SHEET 6
RAMP 1	SR 711 EB TO US 422	7:00 PM - 6:00 AM	1 NIGHT	US 422 NORTH/GYPSY LN	3	DETAIL C	SEE SHEET 6
RAMP 2	US 422 TO SR 711 WB	7:00 PM - 6:00 AM	1 NIGHT	SR 711 EAST/GYPSY LN	3	DETAIL C	SEE SHEET 6

USE PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) TO POST DETOUR ROUTES ; USE M4-9L-30 OR M4-9R-30 SIGNS AT LOCATIONS WHERE A PCMS CANNOT BE PHYSICALLY PLACED.

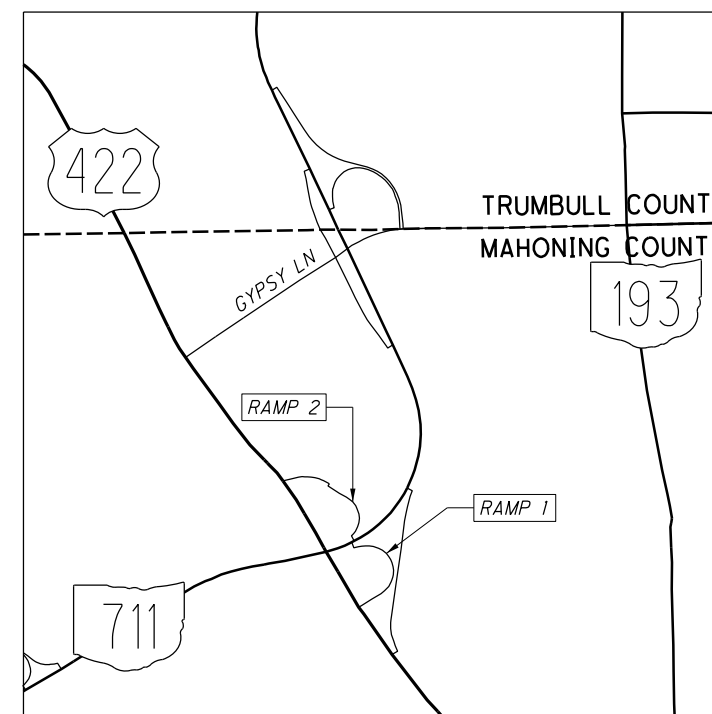
DETAIL A



DETAIL B



DETAIL C



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SHEET NUM.												PART.		ITEM	ITEM	GRAND	UNIT	DESCRIPTION	SEE SHEET NO.	CALCULATED BFR	CHECKED CNC
								4	5	6	01/NFP/P V	02/NFP/B R		EXT	TOTAL						
								30,190			30,190		251	01000	30,190	SY	PARTIAL DEPTH PAVEMENT REPAIR (441)				
								1,008				1,008	SPECIAL	45130000	1,008	FT	PRESSURE RELIEF JOINT, TYPE A			4	
								30			30		621	54000	30	EACH	RAISED PAVEMENT MARKER REMOVED				
								3			3		642	00090	3	MILE	EDGE LINE, 4"				
								1			1		642	00094	1	MILE	EDGE LINE, 6"				
								2			2		642	00190	2	MILE	LANE LINE, 4"				
								2			2		642	00194	2	MILE	LANE LINE, 6"				
								2			2		642	00290	2	MILE	CENTER LINE				
								400			400		642	00394	400	FT	CHANNELIZING LINE, 12"				
								100			100		642	00490	100	FT	STOP LINE				
								100			100		642	00590	100	FT	CROSSWALK LINE				
								6			6		642	01290	6	EACH	LANE ARROW				
									500		500		614	11110	500	hour	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE				
									LS		LS		614	12420	LS		DETOUR SIGNING				
								50			50		614	12460	50	EACH	WORK ZONE MARKING SIGN				
								10			10		614	13000	10	CY	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC				
										12	12		614	18601	12	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN			6	
											LS		614	11000	LS		MAINTAINING TRAFFIC				
											LS		624	10000	LS		MOBILIZATION				

GENERAL SUMMARY

**D04-SP-FY2017
(EAST)**

