

OHIO TURNPIKE AND
INFRASTRUCTURE COMMISSION

ADDENDUM NO. 1

PROJECT NO. 43-17-06
BRIDGE REPAIR, REHABILITATION, AND WIDENING
OHIO TURNPIKE OVER KIRK ROAD, M.P. 222.8,
OHIO TURNPIKE OVER STATE ROUTE 7, M.P. 232.6,
OHIO TURNPIKE RAMP OVER STATE ROUTE 7, M.P. 232.6,
OHIO TURNPIKE OVER OHIO TURNPIKE RAMP, M.P. 232.9,
OHIO TURNPIKE OVER GARFIELD ROAD, M.P. 240.8,
MAHONING COUNTY, OHIO

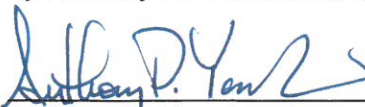
OPENING DATE: 2:00 P.M. (EASTERN TIME), FEBRUARY 28, 2017

ALL BIDS MUST BE ELECTRONICALLY SUBMITTED THROUGH BID EXPRESS

ATTENTION OF BIDDERS IS DIRECTED TO:

QUESTIONS AND ANSWERS THROUGH 12:00 PM ON FEBRUARY 17, 2017
-AND-
ADDITIONS TO THE BID SCHEDULE AND ESTIMATED QUANTITIES WORKSHEET
-AND-
REVISIONS TO PLAN SHEET NOS. 15 OF 99 AND 18 OF 99
-AND-
ADDITION OF PLAN SHEET 5a
-AND-
REPLACEMENT OF APPENDIX C
-AND-
SUPPLEMENT TO SP 614
-AND-
TEMPORARY TRAFFIC CONTROL PLAN AT M.P. 232.9

Issued by the Ohio Turnpike and Infrastructure Commission on February 17, 2017. Issuance authorized by Anthony D. Yacobucci, Chief Engineer, and Mark R. Musson, Director of Contracts Administration.


Anthony D. Yacobucci
Date 2-17-17


Mark R. Musson
Date 2/17/17

**OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION
ADDENDUM NO. 1
PROJECT NO. 43-17-06**

QUESTIONS AND ANSWERS THROUGH 12:00 PM ON FEBRUARY 17, 2017

Q#1 Please clarify zone person requirements for this Project. This Project stretches over 18 miles with temporary permanent zones at each structure. Also, will OTIC consider adding SP614 zone person line item into bid?

A#1 No, the Commission will not add a pay item for SP 614 - Zone Person to the bid. The Commission does not dictate the Contractor's means and methods for completing the Project. The Contractor must fulfill SP 614 B.1.(e) which provides with regard to the Zone Person (ZP) that, "The ZP shall supervise the set-up and removal of the traffic control devices as well as the maintenance, on a continual basis (24 hours per day, 7 days per week), while they are in place..."

Q#2 Will OTIC consider adding line item into bid for Law Enforcement Officer with Patrol Car.

A#2 No, the Commission will not add a pay item a Law Enforcement Officer to the bid.

Q#3 Maintenance of Traffic drawings do not address how to maintain traffic while performing concrete patching and weatherproofing repairs below Ohio Turnpike over Ohio Turnpike ramp, M.P. 232.9. There appears to be an existing median curb, along with narrow shoulders.

A#3 For the repair work below the Ohio Turnpike Bridge over the Ohio Turnpike Ramp at Milepost 232.9, reference the drawings labeled "PHASE 1 TEMPORARY TRAFFIC CONTROL PLAN, OHIO TURNPIKE OVER RAMP M.P. 232.9" and "PHASE 2 TEMPORARY TRAFFIC CONTROL PLAN, OHIO TURNPIKE OVER RAMP M.P. 232.9" provided with this addendum and incorporated by reference into the Contract Documents. Payment for this Work shall be included with Item SP 614, Maintaining Traffic.

Q#4 Plan sheet 5/99 states that the available contractor staging area for this contract will be at exit 239. Do you mean exit 232?

A#4 The note is correct. The available contractor staging area is at the western end of the Eastbound shoulder area at Exit 239.

Q#5 Where can I find Pennsylvania Turnpike Commission Insurance requirements.

A#5 The Pennsylvania Turnpike Commission's insurance requirements are included in the enclosed revised Appendix C, which replaces and supersedes the Appendix C originally included with the Contract Documents through this Addendum No 1.

Q#6 Plan sheet 53/99 shows item 605-4" Base Pipe Underdrains, however I do not see a pay item for this work.

A#6 A new bid reference item at Ref. No. 17A is added to the bid schedule and estimated quantities worksheet through this Addendum No. 1 to provide for Item 605 – 4" Base Pipe Underdrains in the amount of 620 feet.

Q#7 Phase 1 Maintenance of traffic plan depicted on sheet 15/99 appears to be incorrect. Please clarify.

A#7 A revised Plan Sheet 15 of 99 is incorporated into the Contract Documents through this Addendum No. 1. The Commission is further supplementing SP 614 specifications with the enclosed TEMPORARY CROSSOVER AT MILEPOST 241.06 that is incorporated into the Special Provision through this Addendum No. 1.

Q#8 Is dynamic load testing required for driven HP 10x42 piles. If so, how is this being paid?

A#8 Piles are to be driven to refusal in bedrock therefore Dynamic Load Testing is not required. See the note on Plan Sheet 18 of 99.

Q#9 What is the connection plate detail on existing fascia beams for Garfield Road Bridge.

A#9 The connection plate detail for the existing fascia beams are included in the as-built original construction plans for the Garfield Road Bridge which furnished with this Addendum No. 1 for the sole purpose of sharing available information. In accordance with IB Art. 2.1.4, the Commission does not warrant that the drawings show the actual or anticipated conditions, and any use or reliance that bidders place on such drawings are at the sole risk of the bidder.

Addendum No. 1 to Contract 43-17-06:

(Firm Name)

(Signature)

(Printed Name)

Date: _____

GENERAL SUMMARY									
ITEM NO.	QUANTITY	UNIT	ITEM DESCRIPTION	GENERAL	M.P. 222.8	M.P. 232.6	M.P. 232.6 RAMP	M.P. 232.9	MP 240.8
GENERAL									
IB.ART.6	LUMP	LUMP SUM	PREMIUM FOR CONTRACT PERFORMANCE BOND AND PAYMENT BOND	LUMP					
SP 614	LUMP	LUMP SUM	MAINTAINING TRAFFIC	LUMP					
SP 619	LUMP	LUMP SUM	FIELD OFFICE	LUMP					
SP 623	LUMP	LUMP SUM	CONSTRUCTION LAYOUT SURVEY	LUMP					
624	LUMP	LUMP SUM	MOBILIZATION	LUMP					
ROADWAY									
202	384	SQ. YD.	APPROACH SLAB REMOVED					68	316
202	709	FOOT	GUARDRAIL REMOVED						709
202	8	EACH	BRIDGE TERMINAL ASSEMBLY REMOVED						8
203	506	CU. YD.	EXCAVATION						506
204	717	SQ. YD.	SUBGRADE COMPACTION						717
254	728	SQ. YD.	PAVEMENT PLANING, ASPHALT CONCRETE						728
301	120	CU. YD.	6" ASPHALT CONCRETE BASE, PG64-22						120
SP 304	120	CU. YD.	AGGREGATE BASE						120
407	140	GAL.	NON-TRACKING TACK COAT						140
441	50	CU. YD.	1-1/4" ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (448), PG64-22						50
441	70	CU. YD.	1-3/4" ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2 (448)						70
526	384	SQ. YD.	REINFORCED CONCRETE APPROACH SLABS (T=12")					68	316
605	620	FOOT	4" BASE PIPE UNDERDRAINS						620
606	4	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1						4
606	4	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 2						4
606	800	FOOT	GUARDRAIL, TYPE MGS						800
614	10	CU. YD.	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC						10
614	19.2	MILE	WORK ZONE EDGE LINE		4	4		3.2	8
614	540	DAYS	PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN						540
622	10250	FOOT	PORTABLE CONCRETE BARRIER		2720	2960		2200	2370
642	1.10	MILE	EDGE LINE, 6", TYPE 1		0.20	0.24	0.14	0.16	0.36
642	0.06	MILE	EDGE LINE, 8", TYPE 1					0.06	
642	0.46	MILE	LANE LINE, 6", TYPE 1		0.10	0.12		0.06	0.18
SPECIAL	8000	FOOT	"SNAP" MILL AND FILL						8000
SPECIAL	1.50	MILE	SONIC NAP ALERT PATTERN						1.50

1

NOTES:

- FOR M.P. 222.8 EASTBOUND AND WESTBOUND QUANTITIES, SEE SHEET 19 OF 99.
- FOR M.P. 232.6 EASTBOUND AND WESTBOUND QUANTITIES, SEE SHEET 26 OF 99.
- FOR M.P. 232.6 RAMP QUANTITIES, SEE SHEET 37 OF 99.
- FOR M.P. 232.9 EASTBOUND AND WESTBOUND QUANTITIES, SEE SHEET 43 OF 99.
- FOR M.P. 240.8 EASTBOUND AND WESTBOUND QUANTITIES, SEE SHEET 61 OF 99.

PROJECT 43-17-06 DATE: 1/5/17	GENERAL SUMMARY MAHONING COUNTY	NO. 1	CHECKED FBW	REVISIONS ADDENDUM NO. 1	BY DATE ABD 2/15/17	DESIGN AGENCY ms consultants, inc. 2221 Schrock Road Columbus, Ohio 43229
		DRAWN ELS	IN CHARGE GLG	NO. 1	BY DATE ABD 2/15/17	OHIO TURNPIKE
M.P. 222.8 TP M.P. 240.8		2 99		OHIO TURNPIKE		OHIO TURNPIKE

ITEM 614 PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN

WHEN TRAFFIC IS REDUCED TO ONE LANE EITHER EASTBOUND OR WESTBOUND AT THE GARFIELD ROAD PROJECT SITE THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, THREE (3) PORTABLE CHANGEABLE MESSAGE SIGNS (PCMB). ONE (1) OF THE SIGNS SHALL BE LOCATED IN THE WESTBOUND DIRECTION APPROXIMATELY FIVE (5) MILES EAST OF THE GARFIELD ROAD PROJECT SITE, ONE (1) OF THE SIGNS SHALL BE LOCATED IN THE WESTBOUND DIRECTION APPROXIMATELY TWO (2) MILES EAST OF THE I-76 / I-376 INTERCHANGE AND ONE (1) OF THE SIGNS SHALL BE LOCATED IN THE WESTBOUND DIRECTION APPROXIMATELY FOUR (4) MILES EAST OF THE I-76 / I-376 INTERCHANGE, AS DIRECTED BY THE ENGINEER WHENEVER WESTBOUND TRAFFIC IS REDUCED TO ONE LANE AT THE GARFIELD ROAD PROJECT SITE.

THE SIGNS SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED CLASS "A" PCMB UNITS MAINTAINED BY THE ODOT DIRECTOR (OFFICE OF MATERIALS MANAGEMENT). THE APPROVED LIST OF PORTABLE CHANGEABLE MESSAGE SIGNS CAN BE FOUND ON THE ODOT WEBSITE BY CLICKING ON THE SERVICES MENU, THEN CLICKING ON MATERIALS MANAGEMENT.

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. PCMB SHALL BE DELINEATED ON A PERMANENT BASIS IN ACCORDANCE WITH ODOT CMS 614.03.

THE PCMB LOCATIONS, LIMITS FOR THOSE LOCATIONS AND ALL ACTIVATION OF PCMB SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE CHIEF ENGINEER. THE PCMB SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE CHIEF ENGINEER, RELOCATE THE PCMB TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMB SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMB SHALL BE TURNED, FACING AWAY FROM ALL TRAFFIC, AND SHALL DISPLAY ONE OR MORE TYPE G YELLOW RETROREFLECTIVE SHEETING SURFACES OF 9-INCH BY 15-INCH MINIMUM SIZE FACING TRAFFIC.

THE CHIEF ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE TURNPIKE MAINTENANCE 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 CHIEF 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. PCMB FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

THE PCMB 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 PCMB SHALL CONTAIN A CELLULAR TELEPHONE DATA LINK WHICH WILL (IN ACTIVE CELLULAR PHONE AREAS) ALLOW REMOTE ACTIVATION, MESSAGE CHANGES, MESSAGE ADDITIONS AND REVISIONS TO TIME OF DAY PROGRAMS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES. THE PCMB UNIT SHALL CONTAIN A GPS DEVICE WHICH WILL SHOW ITS LOCATION ON A MAP WHICH CAN BE VIEWED REMOTELY BY THE OTC COMMUNICATIONS CENTER. ONE REMOTE DATA INPUT DEVICE (LAPTOP COMPUTER PLUS MODEM OR EQUIVALENT) SHALL BE FURNISHED FOR USE BY THE OTC COMMUNICATIONS CENTER, OR EQUIVALENT, AND SHALL BE INSURED AGAINST THEFT.)

ALL PCMB UNITS SHALL BE EQUIPPED WITH RADAR THAT ENABLES THE MESSAGE BOARD TO DISPLAY THE SPEED OF THE APPROACHING VEHICLES.

WHEN A PCMB IS INITIALLY BROUGHT OUT TO THE PROJECT THE CONTRACTOR SHALL CONTACT THE OTC COMMUNICATIONS CENTER WITH THE PCMB NUMBER AND LOCATION. AT THAT TIME THE OTC COMMUNICATIONS WILL VERIFY COMMUNICATION WITH THE PCMB.

WHEN A PCMB IS REPLACED OR RELOCATED THE CONTRACTOR SHALL CONTACT THE OTC COMMUNICATIONS CENTER WITH THE PCMB NUMBER AND LOCATION.

THE PCMB UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF ODOT CMS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMB, 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 CHIEF ENGINEER TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION DUE TO THE CONTRACTOR'S NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON THEIR 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. THE CONTRACTOR SHALL ONLY BE PAID FOR PCMB UNITS WHEN THEY ARE IN OPERATION ON THE PROJECT AS SPECIFIED IN THE PLANS OR BY THE CHIEF ENGINEER.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE CHIEF ENGINEER TO PROVIDE FOUR (4) PORTABLE CHANGEABLE MESSAGE SIGNS, EACH SIGN FOR APPROXIMATELY 135 DAYS, FOR AN ESTIMATED TOTAL OF 540 DAYS.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN 540 DAYS

SP 614 MAINTAINING TRAFFIC – ZONE PERSON

IN ADDITION TO THE REQUIREMENTS OF SP 614, WHEN TRAFFIC IS REDUCED TO ONE LANE EITHER EASTBOUND OR WESTBOUND AT THE GARFIELD ROAD PROJECT SITE (MP 240.8) THE CONTRACTOR'S ZONE PERSON AND ZONE VEHICLE SHALL CONCENTRATE THEIR EFFORTS ON THIS WORK ZONE.

DURING A TRAFFIC INCIDENT OR ANY OTHER OCCURRENCE CAUSING A TRAFFIC QUEUE, THE MAIN PRIORITY OF THE ZONE PERSON IS TO PROTECT THE BACK OF THE QUEUE. THIS SHALL BE ACCOMPLISHED BY POSITIONING THE ZONE VEHICLE ON THE ROADWAY SHOULDER AND APPROXIMATELY 1,000 FEET BEHIND THE REAR OF STOPPED/SLOWED TRAFFIC, WHILE MOVING FORWARD OR BACKWARD AS NEEDED TO MAINTAIN THE PROPER DISTANCE. THE DISTANCE FROM THE QUEUE SHOULD BE INCREASED IF THERE IS LIMITED SIGHT DISTANCE DUE TO ROADWAY GEOMETRY.

PAYMENT FOR THE ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR SP 614 MAINTAINING TRAFFIC. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT NEEDED TO PERFORM THE ABOVE DESCRIBED WORK.

ITEM SPECIAL - "SNAP" MILL AND FILL

MAINTENANCE OF TRAFFIC ON THE MEDIAN SHOULDER AND PORTIONS OF THE OUTSIDE SHOULDER WILL REQUIRE THE EXISTING "SNAPS" TO BE MILLED AND FILLED OUTSIDE THE WORK LIMITS FOR TEMPORARY TRAFFIC CONTROL PURPOSES.

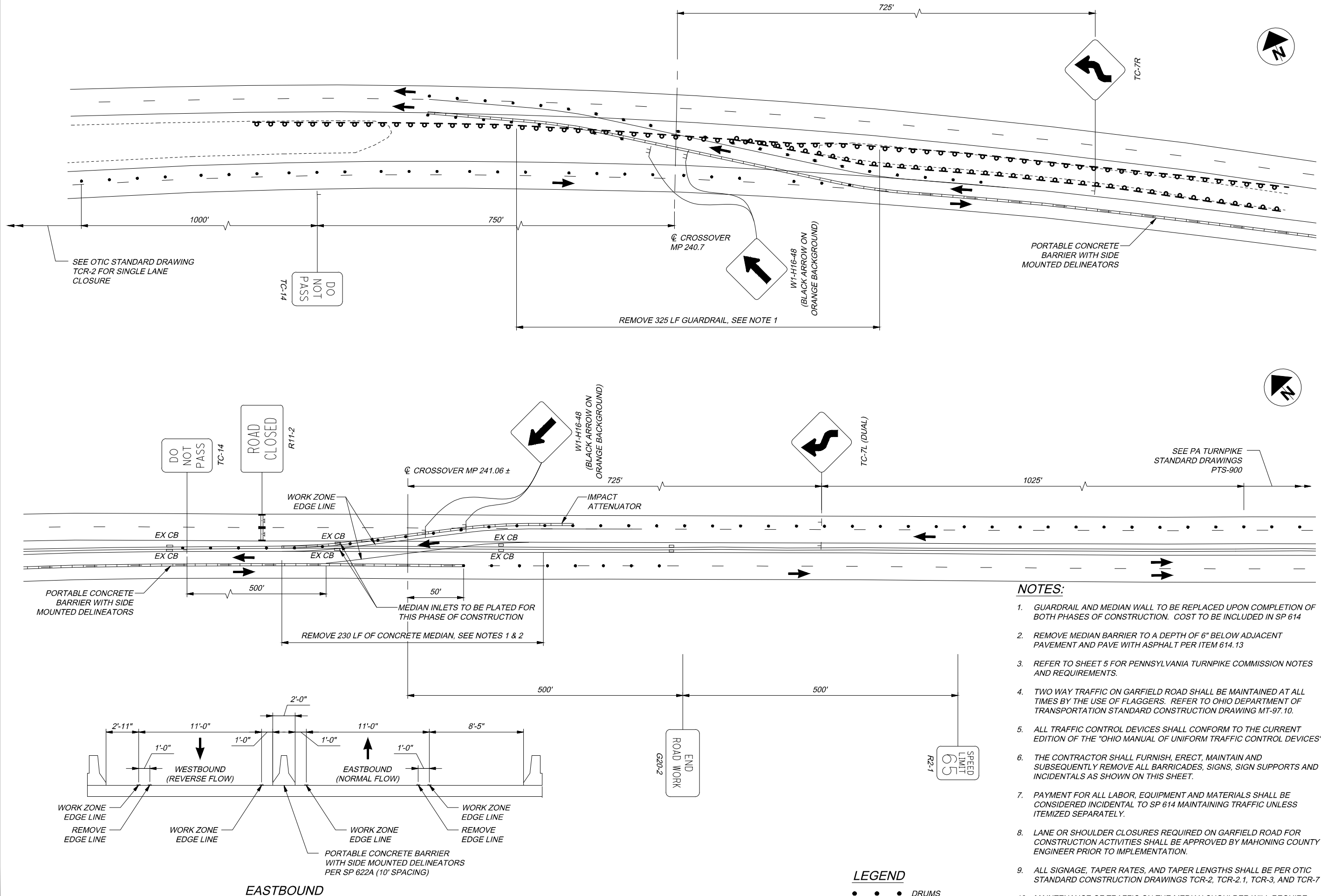
PAYMENT FOR THIS ITEM SHALL INCLUDE REMOVAL OF EXISTING ""SNAPS" AND THE EXISTING PAVEMENT JOINT BY MILLING 1 1/2" DEEP AND 5' WIDE, COATING ALL EXPOSED MILLED SURFACES WITH ITEM 407 NON-TRACKING TACK COAT, AND PAVING THE MILLED AREA WITH 1 1/2" OF ITEM SP 404 - ASPHALT CONCRETE SURFACE COURSE, PG 64-22. ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THE ABOVE MENTIONED WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM SPECIAL - "SNAP" MILL AND FILL.

ITEM SPECIAL - "SNAP" MILL AND FILL..... 8,000 FT

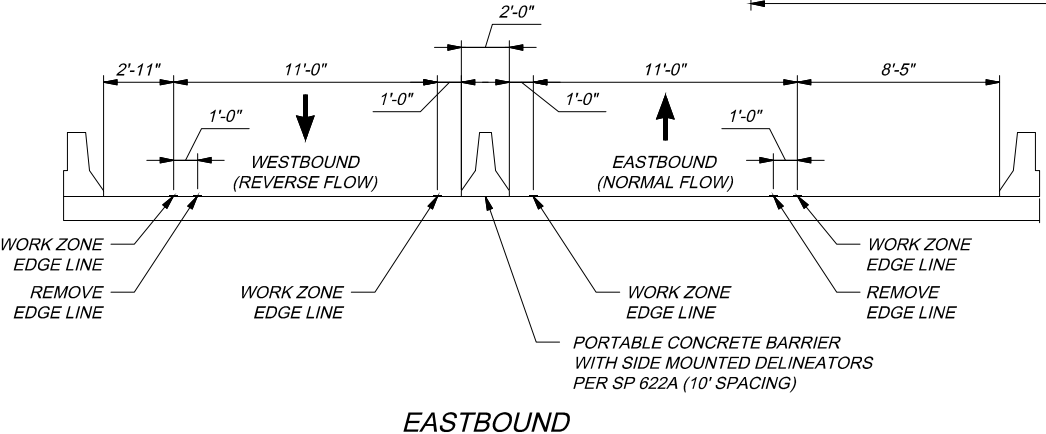
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	MAINTENANCE OF TRAFFIC GENERAL NOTES MAHONING COUNTY M.P. 222.8 THRU M.P. 240.8	PROJECT 43-17-06 DATE: 1/5/17	DESIGN AGENCY K&S ASSOCIATES, INC. 1400 N. ALBANY ST. DAYTON, OH 45424 P 937.233.7700 F 937.233.7700	REVISIONS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">NO.</th> <th style="width: 10%;">DATE</th> <th style="width: 80%;">REVISIONS</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	REVISIONS										CHECKED <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">NO.</th> <th style="width: 10%;">DATE</th> <th style="width: 80%;">REVISIONS</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	REVISIONS										DESIGNED <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">NO.</th> <th style="width: 10%;">DATE</th> <th style="width: 80%;">REVISIONS</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	REVISIONS										BY DATE <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 10%;">NO.</th> <th style="width: 10%;">DATE</th> <th style="width: 80%;">REVISIONS</th> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>	NO.	DATE	REVISIONS									
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- NOTES:**
1. GUARDRAIL AND MEDIAN WALL TO BE REPLACED UPON COMPLETION OF BOTH PHASES OF CONSTRUCTION. COST TO BE INCLUDED IN SP 614
 2. REMOVE MEDIAN BARRIER TO A DEPTH OF 6" BELOW ADJACENT PAVEMENT AND PAVE WITH ASPHALT PER ITEM 614.13
 3. REFER TO SHEET 5 FOR PENNSYLVANIA TURNPIKE COMMISSION NOTES AND REQUIREMENTS.
 4. TWO WAY TRAFFIC ON GARFIELD ROAD SHALL BE MAINTAINED AT ALL TIMES BY THE USE OF FLAGGERS. REFER TO OHIO DEPARTMENT OF TRANSPORTATION STANDARD CONSTRUCTION DRAWING MT-97.10.
 5. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE CURRENT EDITION OF THE "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES"
 6. THE CONTRACTOR SHALL FURNISH, ERECT, MAINTAIN AND SUBSEQUENTLY REMOVE ALL BARRICADES, SIGNS, SIGN SUPPORTS AND INCIDENTALS AS SHOWN ON THIS SHEET.
 7. PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS SHALL BE CONSIDERED INCIDENTAL TO SP 614 MAINTAINING TRAFFIC UNLESS ITEMIZED SEPARATELY.
 8. LANE OR SHOULDER CLOSURES REQUIRED ON GARFIELD ROAD FOR CONSTRUCTION ACTIVITIES SHALL BE APPROVED BY MAHONING COUNTY ENGINEER PRIOR TO IMPLEMENTATION.
 9. ALL SIGNAGE, TAPER RATES, AND TAPER LENGTHS SHALL BE PER OTIC STANDARD CONSTRUCTION DRAWINGS TCR-2, TCR-2.1, TCR-3, AND TCR-7
 10. MAINTENANCE OF TRAFFIC ON THE MEDIAN SHOULDER WILL REQUIRE THE EXISTING "SNAPS" TO BE MILLED AND FILLED INSIDE AND OUTSIDE THE WORK LIMITS FOR TEMPORARY TRAFFIC PURPOSES.



 DESIGN AGENCY 14000 W. STATE ST. SUITE 100 DAYTON, OH 45424 P 937.233.7770 F 937.233.7770 KS ASSOCIATES, INC.	BY	DATE	REVISIONS	NO.	CHECKED	MEM	IN CHARGE	MJM
	DESIGNED	MTG	DRAWN	MTG	DESIGNED	MEM	IN CHARGE	MJM

PROJECT 43-17-06
 MAINTENANCE OF TRAFFIC - PHASE 1
 OHIO TURNPIKE OVER GARFIELD ROAD
 MAHONING COUNTY
 M.P. 240.8
 DATE: 1/5/17

15
99

OHIO TURNPIKE



LEGEND

- (A) FLAGGER (W20-7a-48)
- (B) BE PREPARED TO STOP (W3-4-48)
- (C) ROAD WORK AHEAD (W20-1-48)
- (D) END ROAD WORK (G20-2-48)
- (S) FLAGGER STATION USING STOP/SLOW PADDLE
- TRAFFIC CONES/DRUMS
- × SIGNS MOUNTED ON X-FOOTPRINT SIGN STANDS
- DIRECTION OF TRAVEL
- ▨ BUFFER
- ▩ WORK AREA

NOTES

1. 180 FEET OF THE 6" MEDIAN CURB TO BE REMOVED AND REPLACED WITH ASPHALT CONCRETE PAVEMENT. OHIO TURNPIKE COMMISSION AND INFRASTRUCTURE (OTIC) FORCES TO PERFORM REMOVAL AND REPLACEMENT.
2. THE TRAFFIC CONTROL DEVICES AND MAINTENANCE OF TRAFFIC ZONE SHALL CONFORM TO THE "OHIO MANUAL OF UNIFORM CONTROL DEVICES", ODOT'S STANDARD DRAWING (SCD) MT-97.10, AND OTIC SCD'S.
3. SIGN B "BE PREPARED TO STOP" SHALL REPLACE THE "ONE LANE ROAD AHEAD" SIGN NOTED IN MT-97.10.
4. WHEN THE MAINTENANCE OF TRAFFIC ZONE IS NOT IN PLACE, THE CONTRACTOR SHALL PLACE 42 INCH TRAFFIC CONES, SPACED AT 10 FEET CENTER TO CENTER, WITHIN THE MEDIAN WHERE THE MEDIAN CURB HAS BEEN REMOVED.
5. LANE RESTRICTIONS ARE PERMITTED ONLY FROM 7 PM THRU 5 AM MONDAY THRU FRIDAY AND 6 PM THRU 9 AM SATURDAY AND SUNDAY.

NO.	REVISIONS	BY	DATE

**OHIO TURNPIKE AND
INFRASTRUCTURE COMMISSION**

PHASE 1 TEMPORARY TRAFFIC CONTROL PLAN

OHIO TURNPIKE OVER RAMP M.P. 232.9

DESIGNED: TWB	CHECKED: DCA	DATE: 1/29/15	
DRAWN: CAC	IN CHARGE: DCA	SCALE: N.T.S.	
PROJECT 43-15-02		SHEET 20A OF 20	



LEGEND

- (A) FLAGGER (W20-7a-48)
- (B) BE PREPARED TO STOP (W3-4-48)
- (C) ROAD WORK AHEAD (W20-1-48)
- (D) END ROAD WORK (G20-2-48)
- (S) FLAGGER STATION USING STOP/SLOW PADDLE
- TRAFFIC CONES/DRUMS
- × SIGNS MOUNTED ON X-FOOTPRINT SIGN STANDS
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3. SIGN B "BE PREPARED TO STOP" SHALL REPLACE THE "ONE LANE ROAD AHEAD" SIGN NOTED IN MT-97.10.
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5. LANE RESTRICTIONS ARE PERMITTED ONLY FROM 7 PM THRU 5 AM MONDAY THRU FRIDAY AND 6 PM THRU 9 AM SATURDAY AND SUNDAY.

NO.	REVISIONS	BY	DATE

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

PHASE 2 TEMPORARY TRAFFIC CONTROL PLAN

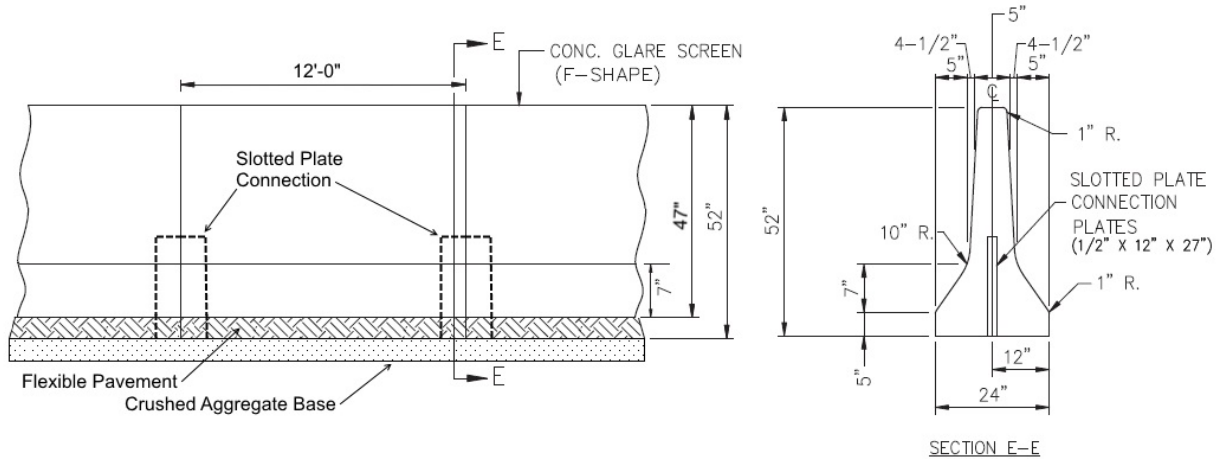
OHIO TURNPIKE OVER RAMP M.P. 232.9

DESIGNED: TWB	CHECKED: DCA	DATE: 1/29/15
DRAWN: CAC	IN CHARGE: DCA	SCALE: N.T.S.
PROJECT 43-15-02 SHEET 20B OF 20		

TEMPORARY CROSSOVER AT MILEPOST 241.06

SP 614 MAINTAINING TRAFFIC – CONCRETE GLARE SCREEN REMOVAL

PRIOR TO MAINTENANCE OF TRAFFIC PHASE 1 THE CONTRACTOR SHALL INSTALL THE TEMPORARY CROSSOVER AT MILEPOST 241.06 +/- . THE CONTRACTOR WILL NEED TO REMOVE THE EXISTING CONCRETE GLARE SCREEN.



IN ORDER TO REMOVE THE GLARE SCREEN, THE CONTRACTOR WILL NEED TO CUT BETWEEN THE 5" VERTICAL FACE OF THE GLARE SCREEN AND THE PAVEMENT. THE CONTRACTOR SHOULD USE A BARRIER CLAMP TO REMOVE THE GLARE SCREEN FROM THE PAVED SLOT. THE GLARE SCREEN IS SITTING ON A CRUSHED AGGREGATE BASE.

THE INDIVIDUAL GLARE SCREEN SECTIONS ARE CONNECTED TOGETHER WITH A 27" X 12" STEEL PLATE THAT FITS IN A SLOT AT THE BOTTOM OF THE GLARE SCREEN SECTIONS.

STORE THE GLARE SCREEN SECTIONS AND STEEL PLATES FOR REINSTALLATION DURING THE WINTER TEMPORARY SHUTDOWN PERIOD AND AT THE CONCLUSION OF MAINTENANCE OF TRAFFIC PHASE 2.

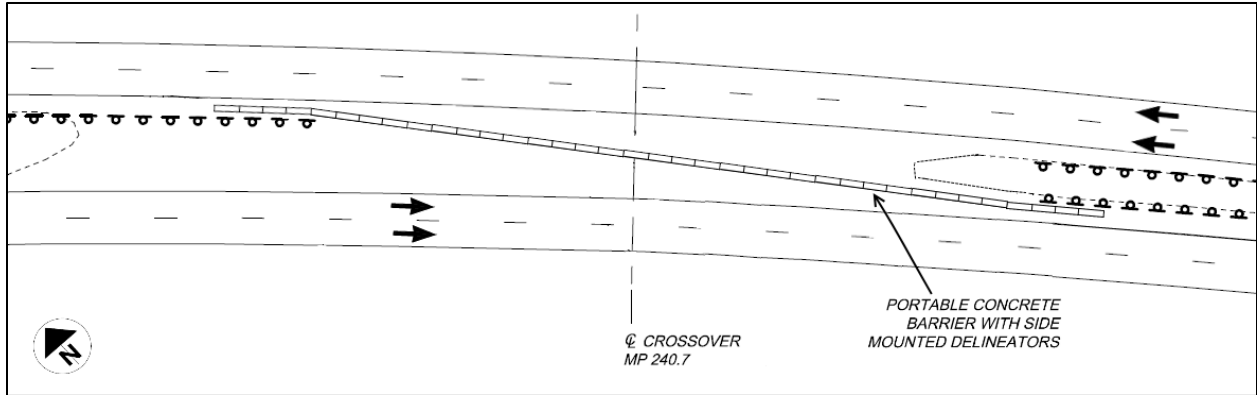
PAYMENT FOR THE ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR SP 614 MAINTAINING TRAFFIC. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT NEEDED TO PERFORM THE ABOVE DESCRIBED WORK.

SP 614 MAINTAINING TRAFFIC – WINTER CROSSOVER CLOSURE

PRIOR TO THE WINTER TEMPORARY SHUTDOWN PERIOD THE CROSSOVER AT MILEPOST 241.06 +/- SHALL HAVE THE CONCRETE GLARE SCREEN REINSTALLED. THE LEFT LANE IN BOTH THE EASTBOUND AND WESTBOUND DIRECTIONS SHALL REMAIN CLOSED UNTIL THE CONCRETE GLARE SCREEN HAS BEEN REINSTALLED.

PRIOR TO THE WINTER TEMPORARY SHUTDOWN PERIOD THE CROSSOVER AT MILEPOST 240.70 +/- SHALL HAVE TEMPORARY PORTABLE BARRIER INSTALLED TO PROTECT THE EXPOSED ENDS OF THE GUARDRAIL. SEE DETAIL BELOW. THE LEFT LANE IN BOTH THE EASTBOUND AND WESTBOUND DIRECTIONS SHALL REMAIN CLOSED UNTIL THE TEMPORARY PORTABLE BARRIER HAS BEEN INSTALLED.

TEMPORARY CROSSOVER AT MILEPOST 241.06



PAYMENT FOR THE ABOVE SHALL BE INCLUDED IN THE CONTRACT PRICE FOR SP 614 MAINTAINING TRAFFIC. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT NEEDED TO PERFORM THE ABOVE DESCRIBED WORK.

LANE RENTAL FEE FOR EXTENDED USE OF LANE(S)

04/01/16

A Lane Rental Fee for extended lane use will be assessed against the Contractor for each lane closure or traffic obstruction that results in the number of travel lanes being less than the minimum required by Appendix C or the specified holiday restrictions, when such lane closure or obstruction is caused by the Contractor's operations, whether or not work is being performed. The time periods set forth in Appendix C or the specified holiday restrictions outline the Contractor's working time limitations for traffic control and lane closure pattern(s). A "lane" is an unrestricted, active travel lane or ramp of at least 12 feet or as specified by the contract documents and includes all Interchange and Service Plaza ramps.

The Lane Rental Fee to be assessed per hour for each lane closure or obstruction that results in the number of travel lanes being less than the minimum required by Appendix C or the specified holiday restrictions is as follows:

LOCATION	1 LANE	2 LANES	3 LANES	4 LANES
MP 0.00 to MP 31.00	\$9,000	\$18,000	\$27,000	\$36,000
MP 31.00 to MP 75.39	\$23,000	\$32,000	\$41,000	\$50,000
MP 75.39 to MP 226.54	\$9,000	\$18,000	\$27,000	\$36,000
MP 226.54 to MP 247.38	\$15,000	\$24,000	\$33,000	\$42,000
MP 247.38 to MP 298.33	\$9,000	\$18,000	\$27,000	\$36,000
MP 298.33 to MP 359.01	\$55,000	\$64,000	\$73,000	\$82,000
MP A20.00 to MP A57.31	\$38,000	\$47,000	\$56,000	\$65,000
MP A57.31 to MP A130.40	\$9,000	\$18,000	\$27,000	\$36,000
MP M0.00 to MP M54.0	\$2,800	\$5,600	\$8,400	\$11,200
MP B14.50 to MP B31.50	\$2,800	\$5,600	\$8,400	\$11,200
MP G0.00 to MP G17.90	\$3,400	\$6,800	\$10,200	\$13,600
MP S0.00 to MP S05.63	\$1,600	\$3,200	\$4,800	\$6,400

Should a lane closure or obstruction overlap the areas indicated above, the higher Lane Rental Fee will be assessed for the entire area affected by the lane closure or obstruction.

The Contractor and the Commission recognize that extended lane use beyond that permitted by the contract documents results in damage to the Commission in terms of the effect of the delay on the use of the Project and upon the public convenience, and results in adverse revenue impacts to the Commission. By executing this contract, the Contractor acknowledges that the Lane Rental Fee is not a penalty but a reasonable per diem forecast of the damage incurred by the Commission due to the Contractor's failure to maintain the requisite minimum number of lanes open to unobstructed travel as called for by Appendix C or the specified holiday restriction. When it becomes evident that the Contractor's operation(s) will result in extended lane use and a Lane Rental Fee, the Representative will direct the Contractor to take immediate action to bring the Project into conformance with Attachment C or the specified holiday restriction. The Contractor's operations will be suspended until the Contractor demonstrates to the satisfaction of the Representative that proper measures, including adequate planning, scheduling and coordination, have been taken to complete the operations within working time and lane closure limitations. No contract time extension will be granted for suspension of any operation which resulted in a Lane Rental Fee assessment.

Any request for extension of allowable hours without assessment of the Lane Rental Fee must be pre-approved by the Representative prior to implementation of the lane closure. Approval of any individual request will not be considered a precedent for approval or denial of any future requests.

The Representative will be the sole authority for determination of Lane Rental Fees. The entire amount will be assessed for any portion of the hour for which a lane closure or obstruction exists. The Commission will have the right to apply as payment for such Lane Rental Fees any money which is due to the Contractor by the Commission. At the discretion of the Representative, the Lane Rental Fee may be waived or reduced for failure to open the minimum number of travel lanes if such cause is beyond the control of the Contractor, *i.e.*, Act of God, catastrophic events, accidents not related or caused by the Contractor's operations. The waiver or reduction of Lane Rental Fees will not operate as a waiver on the part of the Commission of any of its rights under the contract.

**MINIMUM LANE REQUIREMENTS TO BE AVAILABLE
DURING WORKING HOURS**

LOCATION: **Ohio Turnpike - Garfield Road Bridge Repair**

MONTH: **APRIL THRU MAY**

YEAR: **2017**

LANES AVAILABLE: **EB = 2 WB = 2**

HOUR	SUNDAY		MONDAY		TUESDAY		WEDNESDAY		THURSDAY		FRIDAY		SATURDAY	
	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB
12 MID TO 1 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1 AM TO 2 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 AM TO 3 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3 AM TO 4 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4 AM TO 5 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5 AM TO 6 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6 AM TO 7 AM	1	1	2	2	2	2	2	2	2	2	2	2	1	1
7 AM TO 8 AM	1	1	2	2	2	2	2	2	2	2	2	2	1	1
8 AM TO 9 AM	1	1	2	2	2	2	2	2	2	2	2	2	1	2
9 AM TO 10 AM	1	1	2	2	2	2	2	2	2	2	2	2	2	2
10 AM TO 11 AM	2	1	2	2	2	2	2	2	2	2	2	2	2	2
11 AM TO 12 NOON	2	2	2	2	2	2	2	2	2	2	2	2	2	2
12 NOON TO 1 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1 PM TO 2 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2 PM TO 3 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
3 PM TO 4 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4 PM TO 5 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
5 PM TO 6 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
6 PM TO 7 PM	2	2	2	2	2	2	2	2	2	2	2	2	1	2
7 PM TO 8 PM	2	2	2	1	2	1	2	1	2	1	2	2	1	1
8 PM TO 9 PM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9 PM TO 10 PM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10 PM TO 11 PM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11 PM TO 12 MID	1	1	1	1	1	1	1	1	1	1	1	1	1	1

NOTE: DURING THE EASTER AND MEMORIAL DAY HOLIDAY PERIODS TWO (2) TRAVEL LANES
MUST BE AVAILABLE EASTBOUND AND WESTBOUND

**MINIMUM LANE REQUIREMENTS TO BE AVAILABLE
DURING WORKING HOURS**

LOCATION: **Ohio Turnpike - Garfield Road Bridge Repair**

MONTH: **JUNE THRU AUGUST**

YEAR: **2017**

LANES AVAILABLE: **EB = 2 WB = 2**

HOUR	SUNDAY		MONDAY		TUESDAY		WEDNESDAY		THURSDAY		FRIDAY		SATURDAY	
	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB
12 MID TO 1 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1 AM TO 2 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 AM TO 3 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3 AM TO 4 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4 AM TO 5 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5 AM TO 6 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6 AM TO 7 AM	1	1	2	2	2	2	2	2	2	2	2	2	1	1
7 AM TO 8 AM	1	1	2	2	2	2	2	2	2	2	2	2	1	1
8 AM TO 9 AM	1	1	2	2	2	2	2	2	2	2	2	2	2	2
9 AM TO 10 AM	2	1	2	2	2	2	2	2	2	2	2	2	2	2
10 AM TO 11 AM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
11 AM TO 12 NOON	2	2	2	2	2	2	2	2	2	2	2	2	2	2
12 NOON TO 1 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1 PM TO 2 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2 PM TO 3 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
3 PM TO 4 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4 PM TO 5 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
5 PM TO 6 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
6 PM TO 7 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
7 PM TO 8 PM	2	2	2	2	2	2	2	2	2	2	2	2	1	1
8 PM TO 9 PM	2	2	1	1	1	1	1	1	1	1	2	2	1	1
9 PM TO 10 PM	1	1	1	1	1	1	1	1	1	1	2	2	1	1
10 PM TO 11 PM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11 PM TO 12 MID	1	1	1	1	1	1	1	1	1	1	1	1	1	1

**NOTE: DURING THE INDEPENDENCE DAY HOLIDAY PERIOD TWO (2) TRAVEL
LANES MUST BE AVAILABLE EASTBOUND AND WESTBOUND**

**MINIMUM LANE REQUIREMENTS TO BE AVAILABLE
DURING WORKING HOURS**

LOCATION: **Ohio Turnpike - Garfield Road Bridge Repair**

MONTH: **SEPTEMBER THRU OCTOBER**

YEAR: **2017**

LANES AVAILABLE: **EB = 2 WB = 2**

HOUR	SUNDAY		MONDAY		TUESDAY		WEDNESDAY		THURSDAY		FRIDAY		SATURDAY	
	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB
12 MID TO 1 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1 AM TO 2 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 AM TO 3 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3 AM TO 4 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4 AM TO 5 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5 AM TO 6 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6 AM TO 7 AM	1	1	2	2	2	2	2	2	2	2	2	2	1	1
7 AM TO 8 AM	1	1	2	2	2	2	2	2	2	2	2	2	1	1
8 AM TO 9 AM	1	1	2	2	2	2	2	2	2	2	2	2	2	1
9 AM TO 10 AM	1	1	2	2	2	2	2	2	2	2	2	2	2	2
10 AM TO 11 AM	2	1	2	2	2	2	2	2	2	2	2	2	2	2
11 AM TO 12 NOON	2	2	2	2	2	2	2	2	2	2	2	2	2	2
12 NOON TO 1 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1 PM TO 2 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2 PM TO 3 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
3 PM TO 4 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4 PM TO 5 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
5 PM TO 6 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
6 PM TO 7 PM	2	2	2	2	2	2	2	2	2	2	2	2	1	1
7 PM TO 8 PM	2	2	2	1	2	1	2	1	2	1	2	2	1	1
8 PM TO 9 PM	1	1	1	1	1	1	1	1	1	1	2	2	1	1
9 PM TO 10 PM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10 PM TO 11 PM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11 PM TO 12 MID	1	1	1	1	1	1	1	1	1	1	1	1	1	1

**NOTE: DURING THE LABOR DAY HOLIDAY PERIOD TWO (2) TRAVEL
LANES MUST BE AVAILABLE EASTBOUND AND WESTBOUND**

**MINIMUM LANE REQUIREMENTS TO BE AVAILABLE
DURING WORKING HOURS**

LOCATION: **Ohio Turnpike - Garfield Road Bridge Repair**

MONTH: **NOVEMBER THRU DECEMBER**

YEAR: **2017**

LANES AVAILABLE: **EB = 2 WB = 2**

HOUR	SUNDAY		MONDAY		TUESDAY		WEDNESDAY		THURSDAY		FRIDAY		SATURDAY	
	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB
12 MID TO 1 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1 AM TO 2 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 AM TO 3 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3 AM TO 4 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4 AM TO 5 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5 AM TO 6 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6 AM TO 7 AM	1	1	1	2	1	2	1	2	1	2	2	2	1	1
7 AM TO 8 AM	1	1	2	2	2	2	2	2	2	2	2	2	1	1
8 AM TO 9 AM	1	1	2	2	2	2	2	2	2	2	2	2	1	1
9 AM TO 10 AM	1	1	2	2	2	2	2	2	2	2	2	2	2	1
10 AM TO 11 AM	1	1	2	2	2	2	2	2	2	2	2	2	2	2
11 AM TO 12 NOON	2	1	2	2	2	2	2	2	2	2	2	2	2	2
12 NOON TO 1 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1 PM TO 2 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2 PM TO 3 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
3 PM TO 4 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4 PM TO 5 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
5 PM TO 6 PM	2	2	2	2	2	2	2	2	2	2	2	2	1	1
6 PM TO 7 PM	2	2	2	2	2	2	2	2	2	2	2	2	1	1
7 PM TO 8 PM	1	1	1	1	1	1	1	1	1	1	2	2	1	1
8 PM TO 9 PM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9 PM TO 10 PM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10 PM TO 11 PM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11 PM TO 12 MID	1	1	1	1	1	1	1	1	1	1	1	1	1	1

NOTE: DURING THE THANKSGIVING, CHRISTMAS AND NEW YEARS HOLIDAY PERIODS TWO (2) TRAVEL LANES MUST BE AVAILABLE EASTBOUND AND WESTBOUND

**MINIMUM LANE REQUIREMENTS TO BE AVAILABLE
DURING WORKING HOURS**

LOCATION: **Ohio Turnpike - Garfield Road Bridge Repair**

MONTH: **JANUARY THRU MARCH**

YEAR: **2018**

LANES AVAILABLE: **EB = 2 WB = 2**

HOUR	SUNDAY		MONDAY		TUESDAY		WEDNESDAY		THURSDAY		FRIDAY		SATURDAY	
	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB
12 MID TO 1 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1 AM TO 2 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 AM TO 3 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3 AM TO 4 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4 AM TO 5 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5 AM TO 6 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6 AM TO 7 AM	1	1	2	2	2	2	2	2	2	2	2	2	1	1
7 AM TO 8 AM	1	1	2	2	2	2	2	2	2	2	2	2	1	1
8 AM TO 9 AM	1	1	2	2	2	2	2	2	2	2	2	2	1	1
9 AM TO 10 AM	1	1	2	2	2	2	2	2	2	2	2	2	2	1
10 AM TO 11 AM	1	1	2	2	2	2	2	2	2	2	2	2	2	1
11 AM TO 12 NOON	2	1	2	2	2	2	2	2	2	2	2	2	2	2
12 NOON TO 1 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1 PM TO 2 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2 PM TO 3 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
3 PM TO 4 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4 PM TO 5 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
5 PM TO 6 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	1
6 PM TO 7 PM	1	2	2	2	2	2	2	2	2	2	2	2	1	1
7 PM TO 8 PM	1	1	2	1	2	1	2	1	2	1	2	2	1	1
8 PM TO 9 PM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9 PM TO 10 PM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10 PM TO 11 PM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11 PM TO 12 MID	1	1	1	1	1	1	1	1	1	1	1	1	1	1

NOTE: DURING THE CHRISTMAS AND NEW YEARS, PRESIDENTS DAY, AND EASTER HOLIDAY PERIODS TWO (2) TRAVEL LANES MUST BE AVAILABLE EASTBOUND AND WESTBOUND

**MINIMUM LANE REQUIREMENTS TO BE AVAILABLE
DURING WORKING HOURS**

LOCATION: **Ohio Turnpike - Garfield Road Bridge Repair**

MONTH: **APRIL THRU MAY**

YEAR: **2018**

LANES AVAILABLE: **EB = 2 WB = 2**

HOUR	SUNDAY		MONDAY		TUESDAY		WEDNESDAY		THURSDAY		FRIDAY		SATURDAY	
	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB
12 MID TO 1 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1 AM TO 2 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
2 AM TO 3 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3 AM TO 4 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
4 AM TO 5 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
5 AM TO 6 AM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
6 AM TO 7 AM	1	1	2	2	2	2	2	2	2	2	2	2	1	1
7 AM TO 8 AM	1	1	2	2	2	2	2	2	2	2	2	2	1	1
8 AM TO 9 AM	1	1	2	2	2	2	2	2	2	2	2	2	1	2
9 AM TO 10 AM	1	1	2	2	2	2	2	2	2	2	2	2	2	2
10 AM TO 11 AM	2	1	2	2	2	2	2	2	2	2	2	2	2	2
11 AM TO 12 NOON	2	2	2	2	2	2	2	2	2	2	2	2	2	2
12 NOON TO 1 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1 PM TO 2 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
2 PM TO 3 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
3 PM TO 4 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
4 PM TO 5 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
5 PM TO 6 PM	2	2	2	2	2	2	2	2	2	2	2	2	2	2
6 PM TO 7 PM	2	2	2	2	2	2	2	2	2	2	2	2	1	2
7 PM TO 8 PM	2	2	2	1	2	1	2	1	2	1	2	2	1	1
8 PM TO 9 PM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
9 PM TO 10 PM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10 PM TO 11 PM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11 PM TO 12 MID	1	1	1	1	1	1	1	1	1	1	1	1	1	1

NOTE: DURING THE EASTER AND MEMORIAL DAY HOLIDAY PERIODS TWO (2) TRAVEL LANES
MUST BE AVAILABLE EASTBOUND AND WESTBOUND

REPLACES	PENNSYLVANIA TURNPIKE COMMISSION	PART	SECTION	PAGE
B 10-4 Pages 1 to 2		B	10-4	1 of 2
DATED	CONSTRUCTION OPERATIONS MANUAL	DATE		
01-09-15		01-11-16		
SUBJECT				
PROCEDURES FOR NOTIFICATION OF ROADWAY RESTRICTIONS				

The Operations Center is responsible for notifying customers about restricted lanes of travel on the Turnpike. The Operations Center staff will assist in providing this information by receiving reports from the field staff and contractors.

Contractor and Construction designees are responsible for completing the required documentation and notifying the Operations Center and PTC Construction Management & Quality Control (CM/QC) Engineer Project Manager (EPM) **prior** to any patterns being established. These notifications permit the Operations Center and CM/QC EPM staff to program any traffic warning devices and notify media, update Turnpike Website. Visual or anticipated backlogs will require backlog patrol(s) for the duration of the lane restrictions to provide early warning and queue detection to traffic as well as notify the Traffic Operations Center of backlog conditions.

It is everyone's responsibility to ensure the safety of our travelers and employee's during roadway improvements. The Pennsylvania Turnpike Commission's Operation Center must be advised and updated on the status of all construction activities that have the potential to impact traffic. In order to provide consistent and timely notification, the following guidelines are to be followed every time a construction activity is anticipated to impact traffic:

Contractor

Provide information for the [Construction Daily Lane Closure Report](#) to the PTC representative.

Construction Manager/Inspector-In-Charge

Notify the Duty Officer day or night to confirm the lane closure, cancellation, and/or removal at one of the following:

- 800-932-0586
- 717-939-9551 ext. 4644
- *11 (if using a cellular phone)

Properly complete the [Construction Daily Lane Closure Report](#) and electronically send the document to opsctr@paturnpike.com.

Notes for completing form:

1. If the lane closures and related work activities will be in affect longer than one shift, identify additional contacts and appropriate information.

Part B	Section 10-4	Page 2 of 2	Date 01-11-16
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2. Provide an estimate of the start time, the limits, and the duration when lanes are anticipated to be closed. Provide the worst case scenario to minimize revisions of the lane closure duration.
3. The start time is defined as when construction personnel will be beginning to erect or uncover signs. Personnel safety is an important part of the process. ATIS may be activated to ensure personnel safety while setting up the traffic patterns
4. The milepost parameters of the work zone is defined as the first sign and last sign deployed.
5. Notify when the lane restrictions are removed. This time is defined when unrestricted travel begins. **Not when the pattern is in the process of being picked up.**
6. Notify when there are any changes to the duration of the work or any changes to the traffic pattern (increase or decrease in length or lane changes). Notify the Duty Officer immediately as soon as this becomes evident **Don't wait until the last minute** because the Operations Center needs time to update ATIS and notifications.

Ensure that the Duty Officer is notified to confirm the lane closure, cancellation, any changes to the traffic pattern and/or removal, as described above.

The PTC construction representative will call in the actual work locations when the work shift begins.

CONSTRUCTION DAILY LANE CLOSURE REPORT

CONTRACT No.

DATE:

FROM MILEPOST: MP

WEST EAST NORTH SOUTH

LEFT CENTER RIGHT SHOULDER

ESTIMATED TIME:

ESTIMATED TIME LANE OPENED:

REASON FOR LANE CLOSURE:

NOTES:

- *PTC field representative will call in the actual work locations when the evening work shift begins.*
- *Contractor:*

PTC CONTACT PERSON NAME: *Name & Cell phone #*

CONTRACTOR CONTACT PERSON NAME: *Name & Cell Phone #*

FORM COMPLETED BY:

Duty Officer Telephone

Field Contact dial *11 on cell phone



STANDARD SPECIAL PROVISION

Detail

Index or Category: Item Related

Status: Active

Sequence ID: 6081

District: CO

Version: B

Provision Name: c06081 ITEM 0608-0010 - PENNSYLVANIA TURNPIKE INSURANCE

Usage Information

Measurement: Dual

Edit Body: No

Include on all projects: No

Edit Header: Yes

Include on all federally funded projects: No

Edit Project Specific Details: No

Include on all 100% State funded projects: No

Instructions for Usage: Use on projects involving Pennsylvania Turnpike Commission right of way.

When using this item, use work class code(s) X.

408 Section:

Effective From: 10/07/2011

To: 01/01/2999

Associated Items

Item Number	Description
0608-0010	PENNSYLVANIA TURNPIKE INSURANCE

Header

ITEM 0608-0010 - PENNSYLVANIA TURNPIKE INSURANCE

Provision Body

I. GENERAL -

Do not commence work under this contract until all insurance, as specified below has been obtained and approved by the Pennsylvania Turnpike (Commission).

Maintain throughout the period of the contract, and any extensions thereof, the following minimum insurance coverages of the types and amounts described below.

II. WORKER'S COMPENSATION INSURANCE - Workers compensation insurance as required by the Workers Compensation or Occupational Disease Laws of the Commonwealth of Pennsylvania or any other state, if applicable, including, when required, the United States Longshoremen's and Harbor Workers Act, the Federal Employers Liability Act and Jones Act, covering all employees who perform any of the obligations of the Contractor under the contract. If an employee is not subject to workers compensation laws of the governing State, then obtain the insurance voluntarily to extend to the employer and employee coverage to the same extent as though the employer or employee were subject to the workers compensation laws.

III. EMPLOYER'S LIABILITY INSURANCE - Employer's liability insurance in limits of not less than \$500,000

bodily injury each accident, \$500,000 bodily injury disease, and \$500,000 bodily injury by disease each employee.

IV. COMMERCIAL GENERAL LIABILITY INSURANCE - Commercial general liability insurance (CGL) with limits not less than \$1,000,000 each occurrence. If the CGL contains a general aggregate limit, apply it separately to each site or location. Write the CGL insurance on the Insurance Services Office Inc. (ISO) occurrence form CG 00 01 12 07 (or substitute form providing equivalent coverage). Have the insurance cover liability arising from premises, operations, independent contractors, products completed operations, personal injury and advertising injury, and liability assumed under contract (including the tort liability of another assumed in a business contract but not including breach of contract damages). Do not endorse or modify the CGL coverage to limit the scope of coverage for liability arising from explosion, collapse, and underground property damage.

V. BUSINESS AUTO LIABILITY INSURANCE - Business auto liability insurance with a limit of not less than \$1,000,000 each accident. Have the insurance cover liability, including bodily injury or death and property damage, arising out of any auto (including owned, hired, and non-owned autos). Write the business auto coverage on the current ISO form or a substitute form providing equivalent liability coverage.

VI. COMMERCIAL UMBRELLA INSURANCE - Commercial umbrella liability insurance with a limit of not less than \$6,000,000 per occurrence.

Required limit of \$7,000,000 may be satisfied by a combination of primary and umbrella limits.

VII. INSURED STATUS -Include the Commission, its directors, commissioners, officers, agents and employees as an Additional Insured under the insurance policies maintained pursuant to this section: have such insurance policies include cross-liability coverage as provided under standard ISO forms' separation of insured clause. Apply the above insurance as primary insurance with the respect to any other insurance or self-insurance programs afforded to the Commission. The named insured (Contractor) is solely responsible for reimbursing any deductible amount to the insurer. The Commission reserves the right to request disclosure any self-insured retentions (SIR's) in excess of \$25,000 per occurrence. Such SIR's may be subject to approval by the Commission.

VIII. WAIVER OF SUBROGATION - Waive all rights of subrogation against the Commission, its directors, commissioners, officers, and employees for recovery of damages to the extent these damages are covered by any of the Contractor's insurance policies maintained above.

IX. INSURANCE COMPANIES AND UNDERWRITERS - Place insurance coverages with insurers and underwriters that have an A.M. Best's rating of no less than A- with a financial size category of IX or better.

All insurance policies must be written by an insurance company licensed and authorized to do business in Pennsylvania. Insurance policies and certificates must be signed by a resident Pennsylvania Agent of the issuing Company. Policies and certificates issued by an eligible Surplus Lines Insurer must be signed by a party duly authorized to bind, on behalf of the eligible Surplus Lines Insurer. All certificates of insurance shall provide a minimum of 30 days of notice of cancellation, with exception of cancellation for non-payment of premium which shall provide for a 15 day notice of cancellation to the Commission prior to cancellation or material change of any insurance referred to therein. In addition to the notice provided by a third party insurance company, provide notice of change of insurance coverage, including but not limited to the Contractor's cancellation of its policy, to the Commission. In no event shall there be a lapse in coverage at any time during the duration of this contract. The preceding is subject to existing Commonwealth of Pennsylvania statutory cancellation provisions relating to non-payment of premium and misrepresentation by the insured.

X. EVIDENCE OF INSURANCE - Before the start of work, furnish the Commission with a certificate(s) of insurance, acceptable to the Commission, executed by a duly authorized representative of each insurer, showing compliance with the insurance requirements herein. Maintain a certificate(s) of insurance throughout the period of the contract, and any extensions thereof.

Failure of the Commission to demand such certificate(s) or other evidence of full compliance with these insurance requirements or failure of the Commission to identify a deficiency from evidence that is provided does not constitute as a waiver of Contractor's obligations to maintain such insurance. The Commission has the right, but not the obligation, of prohibiting the Contractor or any subcontractor from entering the Turnpike right-of-way until such certificates or other evidence that insurance has been placed in complete compliance with the above insurance requirements is received and approved by the Commission. Provide certified copies of all insurance policies required above within 30 days of written request. Certain confidential or proprietary information may be omitted from the above insurance policies before providing to the Commission.

XI. NO REPRESENTATION OF COVERAGE ADEQUACY -By requiring insurance herein, the Commission does not represent that coverage and limits will necessarily be adequate to protect the Contractor, and such coverage limits shall not be deemed as a limitation on Contractor's liability under the indemnities granted to the Commission in this contract.

XII. MEASUREMENT AND PAYMENT - Lump Sum

Will be paid as specified in Section 110.05, in two equal payments, and as follows:

(a) The first payment due whenever work representing 10% of the total contract price is completed, excluding the bid price for this item.

(b) The second payment due whenever work representing 60% of the total contract price is completed, excluding the bid price for this item. The Pennsylvania Turnpike Commission reserves the right to request and obtain, from the successful bidder, further detailed information regarding the estimate for the specified insurance coverage premiums, at any time following contract award.

Project Specific Details

Audit Information

Created By	Created On	Modified By	Modified On
Corelle L Dozier/PennDOT	06/15/2011 09:24:43 AM	Corelle L Dozier/PennDOT	01/17/2012 02:52:17 PM

You are currently logged in as **Brian M. Ranck**.

Release: 45.1
Session size: 0.1k

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Tue Nov 08 12:50:42 EST 2016
Official ECMS Date/Time

SECTION 901 - MAINTENANCE AND PROTECTION OF TURNPIKE TRAFFIC DURING CONSTRUCTION

901.1 DESCRIPTION - This work is the furnishing, installing, maintaining, and relocating of traffic control devices of Turnpike traffic adjacent to and within the construction area. Perform all work as specified in these Specifications, the Publication 212, the Special Provisions, Standard Drawings, the Maintenance and Protection of Traffic/Traffic Control Plans (TCP), and as directed.

901.2 MATERIAL - Furnish material and traffic control devices necessary for maintenance and protection of traffic, and conforming to the TCP, Publication 212, and as follows:

- Temporary Concrete Barrier - Section 627.2
- Temporary Impact Attenuating Devices - Section 696.2
- Reset Temporary Concrete Barrier - Section 628.2
- Reset Temporary Impact Attenuating Devices - Section 697.2
- Painting Traffic Lines and Markings - Section 962.2
- Temporary Pavement Markers - As manufactured by Ennis Paint, Inc.
 - Non-Plowable Raised Pavement Markers - Model No. 911 or approved equal
 - Recessed Reflective Pavement Markers - Model No. 948 or approved equal
- Bituminous Tack Coat - Section 460.2
- Superpave Bituminous Wearing Course - Section 409.2
- Bituminous Wearing Course FJ-1 - Section 422.2
- Flat Sheet Signs (for Post Mounted Signs, Type B, C and F and Distance Marker(s)) – Section 1103.04

When traffic line paint and glass beads are provided according to the requirements of Section 901.3(k), furnish certification, as specified in Section 106.03(b)3, that these materials meet specifications.

All temporary traffic control devices must be listed in Bulletin 15 as NCHRP-350 compliant. Temporary Type III barricades must comply with Standard Drawing TC-8716 or be listed in Bulletin 15 as NCHRP-350 compliant.

901.3 CONSTRUCTION -

(a) General. Comply with Publication 212.

At least 2 weeks before any maintenance and protection of traffic signs are set up, submit a QC Plan describing the installation, maintenance, and relocation operations for traffic control devices, protection of Turnpike traffic adjacent to and within the construction area, and methods necessary to achieve the requirements of this section, Publication 212, special provisions, Standard Drawings and the Maintenance and Protection of Traffic/Traffic Control Plans (TCP) and hold a pre-operations meeting to review the quality control plan for field control and evaluation of the maintenance and protection of traffic operations. Approval of the QC plan does not change or alter any specification requirements.

Furnish, install, maintain, and remove traffic control devices as indicated on the TCP and the Standard Drawings. To accommodate active operations, furnish and maintain all necessary signs and devices. If construction operations, equipment and resultant conditions, including winter shutdown periods and unforeseen conditions, necessitate the use of additional signs, devices and flaggers, furnish and maintain such as are required and to the satisfaction of the Representative. The Representative may revise the TCP in writing during construction. If revisions are made to the TCP by the Representative, install and maintain any additional warning lights and traffic control signs and devices on necessary mounting devices according to Publication 212, and at locations designated in writing by the Representative. Use PennDOT approved channelizing devices only. Reflectorize channelizing devices with PennDOT approved Type XI reflectorized material. Provide safety for the general public and the work crew. Ensure that all equipment approaches, enters, and departs from working zones in the direction of and with the normal adjacent traffic flow. Schedule construction operations to allow movement of traffic through various phases of construction with minimum interference. If traffic interruptions become too frequent, cease operations in the area concerned, as directed. Take remedial action to correct the situation before continuing operations. Remove or cover existing traffic control devices that conflict with the TCP. When the conflict no longer exists, erect or uncover them. The Chief Executive Officer may impose restrictions on the Contractor's operations, including complete suspension, as is necessary to eliminate adverse traffic conditions on the Turnpike without liability for delay.

The Contractor is cautioned that other Commission Contractor(s) and/or Commission Maintenance Personnel may be working adjacent to the work zone(s) during portions of this contract period. The Representative will specify the working sequence of the contracts in order to facilitate coordinated traffic control operations.

If it is necessary to stop traffic, the Pennsylvania State Police Troop T will conduct all traffic stoppages. These stoppages will not exceed fifteen minutes in length. To halt traffic, schedule the stoppage during non-peak hours during the time period indicated in the Special Provisions. For consecutive stoppages, Troop T may stop traffic following the preceding stoppage and after traffic has returned to its normal flow. According to current traffic conditions, Troop T will determine the time duration between stoppages. Troop T may stop traffic only when the weather conditions are satisfactory.

A minimum of 14 days in advance of the scheduled work that will require a traffic stoppage, notify the Representative. The Representative will notify the Pennsylvania State Police Troop T. In addition, provide sufficient flaggers to assist Troop T. These flaggers are subject to the direction and control of Troop T.

Maintain full access to all interchanges, maintenance areas, service plazas, rest areas and access gates. When operations prevent full access to these areas, schedule, arrange, and conduct work in such manner as will provide the least interference to traffic, utilizing the provided access, and to the satisfaction of the Representative. Maintain open traffic lanes in a satisfactory manner. Immediately remove all dirt, spillage or other foreign material deposited on the roadway. Be responsible for any damage caused to passing vehicles or persons. Provide suitable shields or other means to prevent such damage. The Representative's approval of such measures does not relieve the Contractor of the responsibility for damage caused.

Cover all speed limit signs as well as all other existing warning and informational signs and retain the covers when such messages are inappropriate for the traffic control pattern used. When work is not being performed and all normal lanes and shoulders are available and at the same elevation for the effected direction(s), cover all work area signs and turn off all Type A, Type B, and Type C lights associated with these signs. When all normal lanes and shoulders are not available or are not at the same elevation for the effected direction(s), cover all appropriate work area signs and turn off all Type A, Type B and Type C lights associated with these signs. Uncover signs and turn on all Type A, Type B and Type C lights associated with these signs prior to the resumption of work.

Install and maintain reduced regulatory speed limit signs in work areas, as indicated on the TCP, the Standard Drawings, or as directed. Establish work zone speed limit of 55 MPH in all construction zones except when using tunnel cross-over traffic pattern establish work zone speed limit of 40 MPH. Establish

work zone speed limit by installing 55 MPH speed limit signs in median and shoulder ½ mile in advance of construction area access openings as shown in Standard Drawings. Existing R2-1/G20-5AP signs may be overlaid for 55 MPH in lieu of covering/uncovering signs.

Temporarily remove or cover reduced regulatory speed limit signs when workers are not present, except as otherwise indicated on the TCP, the Standard Drawings, or as directed. Cover or remove work zone speed limit signs when all normal lanes and all normal median and shoulders are available and are at the same elevation for the affected direction(s). Cover or remove work zone speed limit signs when temporary concrete barrier closes the median or shoulder.

Open any substantially completed section of roadway for the use and convenience of traffic, as directed, and as specified in Section 107.15. When work is completed, immediately remove temporary traffic control devices.

Construct and erect all devices in an efficient manner. Maintain, clean, and properly operate the devices during the entire time they are in use. Traffic control devices must meet the acceptable or marginal standards of the Pennsylvania Quality Guidelines for Temporary Traffic Control Devices. Remove all devices when no longer required or not used for a period of two weeks. Where operations are performed in stages, maintain and operate only the necessary devices that apply to the present stage of construction. If operations include a winter shutdown period, remove all signs, devices, material and equipment and store off the Turnpike right-of-way until beginning construction in the spring. Store devices off the Turnpike right-of-way until required on the project.

Do not allow weeds, brush, trees, construction equipment, materials, and the like to obscure any traffic control device.

Secure all approved access gates to prevent the unauthorized entry of persons, vehicles and animals. When required, station watchmen at the access gates to provide security. Secure approved access gates with locks when watchmen are not used. Provide locks that will not interfere with the Commission's locking system.

At the completion of the project, remove all signs and devices from the Turnpike right-of-way.

(b) Maintenance of Roadway and/or Structures. Treat existing earth roads or improved roads that have been graded, with calcium chloride or by other approved dust control palliatives, as specified in the proposal or as directed.

For the duration of the project, be responsible for repairs, on a 24 hour a day basis, necessary to maintain smooth traffic flow in all available traffic lanes within the limits of the traffic control patterns. These limits start where any traffic control devices begin encroaching on the roadway and end where traffic is returned to its normal lanes. If operations cease during the holiday period or if the Commission suspends construction, the Commission's Maintenance Department will be responsible for maintaining open traffic lanes. Payment for repairs directed by the Representative will be according to Section 110.03.

The Commission reserves the right to enter upon a project and, at its own expense, maintain the existing roadway and/or structures. This maintenance will be during the life of the project, but will not include those items that are the Contractor's responsibility as specified in Section 105.13 for the contract items of work and Section 901.3(e) for the accommodation of local traffic. The Commission does not assume responsibility in any way for maintenance of traffic as a consequence of performing this roadway and/or structure maintenance. If the Commission does not exercise its right to enter upon a project, then the Contractor is to perform routine maintenance of the existing roadway and/or structures that are open to traffic at not additional cost to the Commission.

(c) Snow Removal and Anti-Skid Material. The Commission reserves the right to enter upon a project and, at its own expense, remove snow and/or place anti-skid material, considered necessary for continued traffic flow. The Commission does not assume responsibility in any way for maintenance of traffic as a consequence of removing snow or placing anti-skid material.

Remove the anti-skid material, when necessary.

(d) Employee Parking and Safety. Turnpike traffic regulations prohibit parking of vehicles on or adjacent to the travel lanes. Employees will not be permitted to park their cars within the Turnpike right-of-way, including interchange areas. Provide off-site parking areas for employee's cars and transport employees between the parking areas and the project in buses or other approved vehicles. In no case will employees be permitted to ride on the outside of any vehicle. Do not discharge passengers from any vehicle within ten feet of any travel lane. Workers are not permitted to cross live traffic lanes except in the interchanges and service plazas.

Turnpike regulations also prohibit U-turns and crossing of travel lanes with vehicles and equipment. Exceptions to these regulations may be granted by the Safety Manager upon receipt of proper written request. The Commission will not permit U-turns at interchanges.

Require all persons to wear high-visibility safety apparel meeting the Performance Class 2 or 3 requirements of the current ANSI/ISEA 107 publication when working within the Commission's right-of-way or while in work zones adjacent to traffic.

(e) Local Traffic Maintenance and Safety. Proceed with the work to ensure safety and the least inconvenience to local traffic. Maintain local traffic ingress and egress by use of existing or new roadways.

Provide and maintain local access to and from the nearest intersecting public road or street, unless otherwise directed. As directed, provide temporary approaches for local vehicular and pedestrian access to and from commuter service, residential, business, industrial, and other public and private facilities.

Also, provide and maintain adequate bridging over base and surface courses, trenches, or other construction, when directed.

(f) Equipment and Material Storage. At the end of the workday and whenever practical during the workday, store equipment, vehicles and material a minimum of 40 feet from the edge of the nearest open travel lane or store behind existing guide rail and/or concrete barrier using the clearances in RC 54M.

(g) Tubular Markers. When indicated, furnish and install tubular markers according to Publication 212. When directed or as required, replace the complete tubular marker or the tubular marker post only, as the case may be.

When directed or as required, replace the reflective band on the tubular marker.

Remove all tubular markers when no longer necessary for traffic control or as directed.

(h) Existing Commission Signs. Remove and temporarily relocate to appropriate locations existing warning, regulatory, guide, and directional signs as required to accommodate construction operations. Do not remove Stop or Yield signs unless an alternate type of traffic control is provided, such as flaggers, temporary traffic signals, etc. Continue the alternate traffic control until the Stop or Yield signs are replaced. Stake or mark sign locations or locate signs on construction drawings before removing any signs. Mark signs with the milepost or station of its existing location along with the offset in feet from the existing centerline. With the exception of Stop or Yield signs as herein noted, permanently reinstall existing warning, regulatory, guide and directional signs at appropriate locations as soon as operations that interfere with the signs are complete. The Contractor is responsible for signs or supports damaged or lost.

(i) Barricades. When indicated, furnish and install barricades according to Publication 212.

(j) Entrances and Exits to Turnpike. In addition to the existing entrances and exits to the Turnpike, establish all temporary entrances and exits that are deemed necessary and approved in writing by the Representative. In order to meet the rules and regulations of the Commission, the Representative will establish controls for construction, safety, and traffic. Deviations from such rules will not be tolerated and will be sufficient grounds for the withdrawal of the Representative's approval. Upon completion of the Contract, restore the affected areas and appurtenances to their original condition.

(k) Work Zone Pavement Markings. The type and location of temporary pavement markings will be indicated on the TCP. Do not open any section of roadway to traffic without proper temporary or permanent pavement markings. Remove conflicting pavement markings prior to changing traffic patterns. Correct any irregular or inaccurate pavement markings as directed by the Representative.

The Contractor is responsible for all temporary pavement markings.

Place standard pavement markings in the same location as covered or destroyed pavement markings, unless otherwise indicated on the TCP or directed.

Be responsible for the maintenance of all work zone pavement markings. Reapply work zone pavement markings prior to winter shutdown, prior to beginning construction in the spring, and every 3 months for each stage of construction.

Be responsible for the removal of all work zone pavement markings as specified in Section 963.3. Remove the temporary painted markings by water blasting or sandblasting. Use only high-pressure water blasting to remove lines on permanent, Superpave surfaces. Temporary painted markings must be entirely removed.

Remove any pavement markings improperly placed and install in the correct location at no additional cost to the Commission.

Do NOT, under any circumstances, apply painted markings to permanent barrier used on the project or on mainline bridge decks with latex concrete surfacing.

1. Painted Pavement Markings. Section 962 and as follows:

Paint any temporary markings at half the normal millage used when painting permanent markings, except when reapplying temporary pavement markings prior to winter shutdown use normal millage. Paint the temporary skip line 4 inches wide by 10 feet long with a 30-foot space between each temporary skip line. Apply glass beads at the normal rate. Use traffic line paint and glass beads for pavement markings meeting requirements in Publication 212.

2. Temporary Pavement Markers. Install markers according to the manufacturer's specifications. Unless otherwise specified below, space markers at 20 foot centers in transition areas and at 40 foot centers elsewhere. Install markers adjacent to solid lines and in between skip lines. Markers are to be the same color as adjacent pavement markings. Remove pavement markers that are no longer required or that conflict with traffic patterns being used.

Install markers as shown on the plans and according to the following requirements:

- Mainline bridges. Use temporary non-plowable raised pavement markers for all temporary pavement markings required on the bridge decks.
- Roadway Pavement. Install temporary non-plowable raised pavement markers in addition to pavement markings along the centerline of narrowed or shifted travel lanes and along the right edgeline of shifted travel lanes. Temporary non-plowable raised pavement markers along the right edgeline of shifted travel lanes are not required when the right edgeline is directly adjacent to temporary barrier.
- Median Reconstruction. On final roadway pavement surface, install temporary yellow non-plowable raised pavement markers on the pavement adjacent to the permanent concrete median barrier in temporary position at the midpoint of each permanent concrete median barrier section.
- Markings required between March 1 and November 30 - Install non-plowable raised pavement markers.

- Markings required between December 1 and February 29 – Install non-plowable raised pavement markers on final surfaces only. Install recessed reflective pavement markers on non-final surfaces only. Install as shown on the Standard Drawings, as recommended by the manufacturer, as directed by the Representative and as follows:

Perform a test section prior to performing any work and at any time as directed by the Representative. Select a location for the test in an area agreed to by the Representative. Perform the test section to ensure that the machine is capable of cutting RRPM slots as shown on the Standard Drawings.

Install the recessed pavement markers by cutting a slot in the pavement as shown on the Standard Drawings. Ensure that the slot is wide enough for the marker to fit freely into the slot and deep enough to allow for epoxy adhesive. Ensure that the top of the installed marker is flush with the pavement surface or no more than 1/16 inch below the pavement surface.

Bond the marker in the slot with an acceptable epoxy adhesive in such a manner as specified and recommended by the manufacturer and as approved by the Representative.

Prior to opening the lane to traffic, remove and dispose of all milled debris as required.

- Remove temporary non-plowable raised pavement markers prior to November 30 and replace, if required, with temporary recessed reflective pavement markers. If a stage change occurs between October 1 and March 1, temporary recessed reflective pavement markers may be installed on non-final surfaces only in lieu of the temporary non-plowable raised pavement markers for the duration of the stage at no additional cost to the Commission, as approved by the Representative.

3. Temporary Concrete Barrier Delineation. Install delineators of an approved type listed in Bulletin 15. Delineators are to be the same color as adjacent pavement markings.

(I) Portable Road Light and Power Unit. Use portable road light and power units to illuminate all crossovers at night and to illuminate work zones during nighttime work hours. Do not locate lighting fixtures to produce distracting or blinding glare for the driver. Provide units meeting the following minimum requirements:

1. Illumination.

- Lamp - 250 watt, high-pressure sodium.
- Distribution - IES Type V.
- Mounting Height - 25 feet.
- Design and construct refractor from unbreakable material and to reduce specified light distribution without causing glare to motorists.

2. Power Unit. Self-contained power generation unit satisfactory to the Representative.

3. Assembly. Mount lamps on telescoping pole or tower with T-bar support for three lamps capable of being operated separately or together by individual control. Mount lamps on T-bar assembly to enable positioning lamps at any location within 180 degrees of horizontal. Mount entire power-pole unit on trailer capable of being towed. Secure unit to trailer by mechanical attachment affixed to trailer so that unit cannot be raised inadvertently while being towed. Equip trailer unit with rubber tires and automotive wheels. Equip trailer with standard attachment tow-bar assembly with safety chain and Pennsylvania approved taillights and directional signals. Stabilize for wind conditions in excess of 65 MPH. Provide electric wiring, cable, connection, etc., according to type approved for automotive use and meeting the requirements of the latest National Electric Code and the Commonwealth of Pennsylvania.

4. Alternate Power Supply. Make provisions for quiet zone operation from alternate power supply or commercial service.

5. Acceptance. Obtain the Representative's approval of each unit prior to use on the project.

Alternate construction lighting may be used to illuminate work zones during nighttime work hours. The Commission has pre-approved an alternate that meets the following requirements:

- Multi-Directional Lighting Device (MDLD) units which can self-inflate and are capable of illuminating approximately 15,000 ft².
- MDLD units 3.5 ft. horizontal diameter and capable of withstanding 60 mph winds.
- MDLD units with halogen bulbs recommended by the manufacturer.

Furnish, maintain, and operate sufficient number of units to properly illuminate work zones and/or provide proper lighting of all crossovers. Repair or replace damaged lighting units and bulbs within 24 hours.

(m) Construction Vehicles and Equipment. Identify all vehicles, cars and trucks used on the project and which travel the open lanes of traffic with a magnetically attached sign, or approved equal sign, prominently positioned on the rear of the vehicle. Attach signs to vehicles whenever traveling open traffic lanes. Provide signs of sufficient size to display the legend in letter size and arrangement that is easily read at a distance of 200 feet in normal daylight. Provide black legend on orange Type XI reflectorized material arranged as follows:

CONSTRUCTION VEHICLE
KEEP ALERT FOR
SUDDEN STOPS AND TURNS

Obtain the Representative's approval prior to using the signs on the project. Keep signs clean and in good repair at all times to the satisfaction of the Representative. Ensure that all equipment approaches, enters, and departs from working zones in the direction of the adjacent traffic flow. Furnish all equipment and vehicles with a yellow flashing light attached to the equipment adjacent to and facing the traffic and which is visible 360 degrees. Provide lights meeting the following requirements:

1. Description. Operate light from a nominal 12 volt DC power source. Provide amber lens and lamps that rotate 360 degrees. Furnish housing to provide rigid support to the lamp, motor and drive train.

2. Minimum Dimensions. Height 7.25 in; Diameter 8.5 in.

3. Lamps. Consisting of two Par 36 Sealed Beam Incandescent Lamps to provide 3500 beam candlepower. Provide sealed beam lamps that produce approximately 80 flashes per minute when rotating.

4. Construction. Provide reinforced thermoplastic lamp holder. Use spring clips to hold lamp in holder and make electrical connection to the lamp when properly placed in holder. Screw terminals or spade connections to the lamp are unacceptable.

5. Motor. Provide a permanently lubricated, high torque, permanent magnet type operating from nominal 12 volt DC, filtered to reduce radio frequency interference.

6. Drive Train. Utilize a gear assembly with the worm-gear being part of the motor armature. Incorporate in the drive chain a slip clutch arrangement to prevent motor damage. RUBBER BANDS OR FRICTION DRIVE UNITS ARE UNACCEPTABLE.

7. Lens Retainer. Fabricated from stainless steel with a nut and bolt fastener. Luggage clamp type fasteners are acceptable.

8. Mounting. Provide unit capable of being surface mounted or on a self-leveling mount. Provide all mounting hardware including 14-gauge wire, 24 feet in length with an in-line fuse, switch-rocker type (lighted), and roof mounting bolts. Provide a rubber or neoprene gasket or mounting pad to form a weatherproof seal between housing and vehicle roof.

9. Reference. Arrow Model 530, Modified (99005); Federal Model 14, Modified; Dietz Model 7-40004; or approved equal. Strobe type lights that meet the dimension, candlepower, flash, lens and retainer and mounting requirements will be acceptable.

(n) Sign Identification and Covers. Provide contract number, Contractor name, owner of traffic control sign and Contractor's telephone number for 24-hour contact on the back of each traffic control sign. This information is to be available to Turnpike personnel for emergency purposes. Furnish a sticker indicating the manufacturer of each traffic control sign.

Cover existing signs and traffic control signs that conflict with the TCP or that do not apply to existing conditions. Cover with black vinyl coated polyester material having a minimum weight of 18 oz. per square yard and minimum thickness of 20 mils. All other materials, including but not limited to burlap or similar open mesh materials, other signs, and trash bags are unacceptable. Cover the entire sign, including any supplemental plaques. Stabilize and fasten this material to the sign with either plastic or wood to prevent any movement. Do not apply tape to the face of the sign. Do not deface or damage the sign face using this procedure. Maintain sign cover retainers in good condition. Remove signs not required or not used for a period of two weeks. Store signs off the Turnpike right-of-way until required on the project.

(o) Tenth and Whole Mile Markers. Mark sign locations or locate signs on construction drawings before removing whole mile marker signs in the median. At all times, ensure that the customers can see the whole and tenth mile markers. Permanently reinstall the whole mile marker signs in the median and the tenth mile marker signs on the shoulder as soon as operations that interfere with the signs are complete. The Contractor is responsible for signs or supports damaged or lost.

(p) Inspections and Patrols. Perform routine inspection of traffic control elements during each work shift. Additional inspections of traffic control elements may be required as directed by the Representative. Assign responsibility for safety and traffic control to a representative(s) trained and certified by PennDOT and/or ATSSA during each work shift. This individual(s) will ensure that all traffic control measures implemented on the project are necessary, conform to the TCP, and are effective in providing safe conditions for motorists and workers. If modifications to traffic control or working conditions are required to satisfy these requirements, this representative(s) will have the authority to modify conditions or stop the work until a safe condition is provided. Submit the name and qualifications of this individual(s) for acceptance by the Commission.

Assign personnel with vehicles to patrol the project, its approaches and other affected roadways. Provide patrol personnel with vehicles equipped with a 360-degree emergency warning light as specified in Section 901.3(m). Equip vehicles with four-way flashing warning lights, visible from front and rear to be used when the vehicle is stopped. Assign sufficient patrol personnel to provide for all necessary

maintenance, repair or replacement of signs and devices. The patrol personnel are responsible to insure all access gates are locked or secured and to report accidents involving damaged traffic control devices to the Commission's Operations Center.

Report any adverse traffic conditions to the Operations Center who will notify the Pennsylvania State Police Troop T. Remain at the scene until Troop T arrives. Take all reasonable steps to abate the adverse traffic conditions and take necessary precautions to warn other customers of the condition. Upon arrival of Troop T, cooperate with Troop T to control traffic. At no time is the Contractor relieved of the responsibility for the maintenance and protection of traffic.

Patrol personnel are to report to the Operations Center traffic accidents involving customers and construction employees, equipment or vehicles. The Operations Center will notify Troop T. Report to the designated safety officer industrial-type accidents involving construction personnel. Notify the Representative of all accidents occurring within the project, its approaches or on other affected roadways.

Provide 24 hour patrols during continuous single lanes or when less than two 11 foot lanes, three 11 foot lanes in 3-lane sections, in either direction are available during non-working hours. Provide 24 hour patrols when normal ramp lanes and ramp widths are unavailable during non-working hours.

(q) Temporary Concrete Barrier. Except for temporary pavement markings, temporary concrete barrier is not to be painted.

Provide, install and maintain top-mounted and side-mounted delineators on temporary concrete barriers, glare screen and bridge barrier as indicated on the TCP.

Clean or replace all delineators as directed. Clean in an approved method.

(r) Flaggers. Provide flaggers at all sites where construction equipment and vehicles cross or have access to the travel lanes or as indicated on the traffic control plans. The flaggers are responsible to regulate the entry and departure of the construction equipment and vehicles.

Provide flaggers that successfully completed a flagger-training course within the last 3 years that complies with PennDOT's minimum flagger training guidelines described below. Assure that flaggers carry a valid wallet-sized training card containing the name of the flagger, training source, date of successful completion of training, and signature; or provide a roster of trained flaggers to the Representative before the start of flagging operations that contains the names of flaggers, training source, and date of successful completion of training. Minimum flagger training guidelines include the following:

1. Minimum Course Contents.

- Why flagging is important
- Fundamental principles of work zone traffic control
 - Component parts of the work zone
 - Channelization devices, spacing
 - Tapers
 - Buffer Space
 - Visibility to approaching drivers
- Human factors – driver attitude, expectation, reaction
- Qualifications of a flagger
- Clothing
- Flagger Operations
 - Setting up the flagger station
 - Signaling devices and when used

- Hand signaling procedure
 - Communications
 - Two-flagger operations
 - Single flagger operations
 - Flagging in intersections
 - Nighttime flagging
 - Emergency situations
- Flagging in adverse weather conditions
 - Sign requirements
 - Practical exercise

2. Objectives. At the end of the course the student should be able to:

- Describe why flagging is important
- Describe flagger qualifications
- Ensure the flagger station complies with Turnpike, PennDOT, and FHWA requirements
- Gather all necessary equipment
- Select the proper flagging station/position/location
- Control traffic using the stop/slow paddle
- Control traffic using the red flag
- Control two-way traffic in one lane of a highway
- Control traffic at an intersection
- Recognize and be able to control traffic in unique or special flagging situations
- Control traffic at night and recognize a safe nighttime flagging operation
- Communicate with co-workers and the public

3. Test. All students must take and pass a written, closed book, knowledge test consisting of a minimum of 20 questions. Passing is 70%.

4. Re-training. Re-training is required every 3 years.

(s) Lifting of Construction Materials. Stop traffic during the placement or removal of any construction materials that are above open lanes to traffic, such as, but not limited to, lifting equipment, bridge components, signs, and overhead sign structure components as directed.

(t) Non-Compliance of Maintenance and Protection of Traffic. Liquidated damages will be assessed in the event of non-compliance with Maintenance and Protection of Traffic requirements. Liquidated damages will be assessed following notification by the Inspector-in-Charge.

When deficiencies are found, written notification will be provided to the Contractor to correct the deficiencies within a specified time frame. If the Contractor remains in violation of the Maintenance and Protection of Traffic provisions, a written action plan for correction will be required and work zone liquidated damages in the amount of \$1,000 per day will be assessed until the deficiency is corrected to the satisfaction of the Representative. The Assistant Chief Engineer – Construction may also direct Commission Maintenance Personnel to correct the deficiencies. If Commission Maintenance Personnel are directed to correct the deficiencies, the Contractor will be charged for labor, equipment, and material costs incurred by the Commission in addition to the work zone liquidated damages. If the Contractor remains in violation of the Maintenance and Protection of Traffic requirements after second notification, the Assistant Chief Engineer – Construction may suspend work in accordance with Section 105.01(b) until the deficiencies are corrected.

(u) Arrow Panels. Provide units from an approved source with panels a minimum of 48-inch high and 96-inch wide with non-reflective, flat black finish. Use a 12-volt battery pack to supply electrical power to the sign panel for a minimum of 72 continuous hours. Solar powered arrow panels listed in Bulletin 15 are acceptable. Operation from alternate electric power supply or commercial electric service may be used with the approval of the Representative.

The number of units required will be indicated in the bid proposal for the project. The Contractor may furnish additional units at no additional cost to the Commission.

(v) Shadow Vehicle with Truck Mounted Attenuator (TMA). Provide a shadow vehicle with TMA that meets the requirements of Publication 212. Provide documentation to the Representative that the requirements for the shadow vehicle with TMA are met. To the rear of the shadow vehicle, attach a Truck Mounted Attenuator (TMA) provided from a PennDOT approved source and tested and approved for NCHRP 350 Test Level 3 Criteria. In the bed of the shadow vehicle, insert a Skid-Mounted Arrow Panel (from a PennDOT approved source) that measures a minimum of 48 inches high by 96 inches wide. In conjunction with the use of the Shadow Vehicle with TMA, provide and use a PennDOT approved Traffic Alert Radio that is capable of being carried by the Shadow Vehicle with TMA.

To provide advance information to approaching drivers and to separate the workers and work vehicles from approaching drivers, position the shadow vehicle with TMA in advance of work locations which are not separated from approaching drivers by concrete barrier. Assign operator(s) to each Shadow Vehicle with TMA. Provide a means for the operator(s) to verbally communicate with the operation for which the Shadow Vehicle with TMA is being used. The operator(s) must be available at all times to position and/or relocate the shadow vehicle with TMA. During periods of multiple work locations, prioritize the use of the shadow vehicle with TMA based on the priority chart provided.

1. Stationary Operation. When separating a stationary operation (i.e.: stopped for more than fifteen minutes) from approaching drivers, the shadow vehicle with TMA is to be unoccupied.

2. Slow-Moving or Moving Operation. When separating approaching drivers from an operation that will be moving continuously or intermittently where the vehicle will not be stopped at any single location for more than fifteen minutes, the operator is to be the only occupant of the vehicle.

3. Position. Position all shadow vehicles with TMA so they are visible to approaching vehicles from a distance calculated as follows:

$$\text{Speed Limit (mph)} \times 10 = \text{Sight Distance (feet)}$$

If this sight distance cannot be obtained, use the maximum sight distance which the local geometry of the road allows. Orient all shadow vehicles with TMA so that the rear of the vehicle (and the TMA) is perpendicular to and facing oncoming traffic.

4. Priorities for the Application of Shadow Vehicles with TMA.

<u>Closure / Exposure Condition</u>	<u>Priority</u>
<u>No Formal Lane Closure</u>	
a) Shadow Vehicle with TMA for Operation Involving Exposed Personnel	1a
b) Shadow Vehicle with TMA for Operation Not Involving Exposed Personnel	1b

No Formal Shoulder Closure

- a) Shadow Vehicle with TMA for Operation Involving Exposed Personnel 2a
- b) Shadow Vehicle with TMA for Operation Not Involving Exposed Personnel 2b

Formal Lane Closure

- a) Shadow Vehicle with TMA for Operation Involving Exposed Personnel 3a
- b) Shadow Vehicle with TMA for Operation Not Involving Exposed Personnel 3b

Formal Shoulder Closure

- a) Shadow Vehicle with TMA for Operation Involving Exposed Personnel 4a
- b) Shadow Vehicle with TMA for Operation Not Involving Exposed Personnel 4b

The number of units required for the payment type indicated will be shown in the bid proposal for the project. The Contractor may furnish additional units for the payment type indicated at no additional cost to the Commission. In addition, the Contractor may furnish additional shadow vehicles with TMA regardless of the payment type indicated at no additional cost to the Commission.

(w) Portable Changeable Message Signs. From a PennDOT approved source, provide units with a minimum size of 65"x125" that can display a three-line message with 12 characters per line. Each message shall consist of no more than two phases. A phase shall consist of no more than three lines of text. Each phase shall be understood by itself regardless of the sequence in which it is read. Messages shall be centered within each line of legend. Portable changeable message signs shall automatically adjust their brightness under varying light conditions to maintain legibility. Install portable changeable message signs a minimum of one week prior to lane closures, stoppages, or traffic paces to inform customers of upcoming construction work. The portable changeable message signs shall be secured to prevent unauthorized access, both physically and electronically.

Place portable changeable message signs off the paved shoulder and behind guiderail or concrete barrier, if practical. Where guiderail or concrete barrier is not available, place off the paved shoulder and outside the clear zone. If a portable changeable message sign has to be placed on the paved shoulder or within the clear zone, delineate it with a minimum of 3 PennDOT approved channelizing devices with PennDOT approved Type XI reflectorized material. The Representative will determine the sign locations and approve messages. Based on traffic conditions and as directed by the Representative, relocate the signs at no additional cost.

Within 24 hours of being notified that a sign is damaged or inoperative, repair or replace the sign to the satisfaction of the Representative. If the sign remains unrepaired beyond the 24-hour limit, the Contractor will be assessed \$500.00 per day in liquidated damages.

The number of units required will be indicated in the bid proposal for the project. The Contractor may furnish additional units at no additional cost to the Commission.

(x) Portable Pan/Tilt/Zoom Closed Circuit Television (PPCCTV) Cameras. Place PPCCTV cameras on the Turnpike at each merge point, crossover area and within the work zone, to provide full continuous coverage, on construction projects 9 months in duration or longer. The exact location and placement of PPCCTV cameras will be determined in the field by the Representative and Contractor with

the approval of the Commission's Traffic Operation Center (TOC). Relocate the PPCCTV cameras at no additional cost to the Commission as required by the traffic control staging and by the Representative based on traffic conditions during construction.

Provide PPCCTV camera subsystem meeting the requirements of Section 1210. All references to TMC/RTMC shall be replaced with the Commission's TOC.

(y) Emergency Contact. Designate a responsible individual(s) to be in charge of all safety including the maintenance and protection of traffic. Designate an individual(s) that can be contacted at all times (day or night) and who is authorized to make necessary decisions. Furnish the name(s), address and telephone number of the designated individual(s) for 24-hour availability.

901.4 MEASUREMENT AND PAYMENT -

(a) Maintenance and Protection of Turnpike Traffic During Construction. Lump Sum

The Commission will measure and pay for this item in a proportionate manner, one designated by the Commission, on the basis of current estimates.

With the exception of the separate pay items specified in Section 901.4(b), if an item or device is required for maintenance and protection of traffic, the cost of the item or device is incidental to Item 2901-0001.

(b) Separate Pay Items. The Commission will separately measure and pay for the following items or devices, when indicated or required or as directed by the Representative for maintenance and protection of traffic during construction:

- Arrow Panel - Each
- Calcium Chloride - Ton
- Other Dust Control Palliatives - Gallon or Ton
- Tubular Markers - Each
- Replace Tubular Markers - Each
- Replace Tubular Markers, Post Only - Each
- Replace Reflective Band on Tubular Marker - Each
- Remove Tubular Markers - Each
- Changeable Message Sign - Each
- Temporary Concrete Barrier - Section 627.4
- Reset Temporary Concrete Barrier - Section 628.4
- Pavement Marking Removal - Section 963.4
- Painting Traffic Lines and Markings - Section 962.4
- Temporary Non-Plowable Raised Pavement Markers, Yellow - Each

- Temporary Non-Plowable Raised Pavement Markers, White - Each
- Temporary Recessed Reflective Pavement Markers, Yellow - Each
- Temporary Recessed Reflective Pavement Markers, White - Each
- Temporary Bituminous Rumble Strips - Square Yard
- Temporary Impact Attenuating Devices - Section 696.4
- Reset Temporary Impact Attenuating Devices - Section 697.4
- Standard Pavement Markings, Paint & Beads, for the type indicated - Linear Foot. Payment will be made for the initial application of temporary markings for each stage of construction. Maintenance of temporary markings, including the required reapplications prior to winter shutdown, prior to beginning construction in the spring, and every 3 months for each stage of construction are incidental to the initial application.
- Shadow Vehicle with Truck Mounted Attenuator (TMA) - One of the following:
 - a) Each.
 - b) Day. A day is defined as approved usage of any duration within a 24-hour calendar day period.
 - c) Hour. Measured beginning when the Shadow Vehicle with TMA is properly positioned in advance of the work location to the time when the Shadow Vehicle with TMA is removed from in advance of the work location rounded to the nearest whole hour.
- Portable Pan/Tilt/Zoom Closed Circuit Television Camera Subsystem – Each. Includes camera, lens, encoder, decoder, wires, connectors, grounding rod and conductor, trailer, mounting and installation, training, integration work, and documentation for a complete subsystem.
 - a) 50% of payment will be made upon complete installation of PPCCTV
 - b) 30% of payment will be made upon completion of the standalone acceptance tests as specified in Section 1201.3(b).
 - c) 20% of payment will be made upon completion of the 60-day test as specified in Section 1201.3(b).

Completion of tests includes completion of training, submission of all manuals and documentation as required, and completion of all final inspections as required by the Representative.

REPLACES Part B 10-2 Page 1 of 1	PENNSYLVANIA TURNPIKE COMMISSION CONSTRUCTION OPERATIONS MANUAL	PART B	SECTION 10-2	PAGE 1 of 1
DATED 01-18-13		DATE 09-19-16		
SUBJECT ACCESS REQUEST AND SECURITY REQUIREMENTS FOR PERMANENT AND TEMPORARY GATES				

The Commission maintains a system of key controlled access gates throughout the system for use by Commission and emergency response personnel. Use of these gates by the Contractor may be granted to provide access to the job site.

REQUEST TO USE PERMANENT ACCESS GATES

The Contractor shall submit a written request to the Construction Engineering Manager (CEM) identifying the access point by mile post and direction. The CEM will review and if acceptable will forward to the Construction Documentation Specialist for processing. The Construction Documentation Specialist will provide keys to the CEM along with a key agreement. The CEM will obtain the signed key agreement from the Contractor’s authorized representative upon issuance of the keys. A copy of the signed agreement will be uploaded into the PCS. Only individuals issued a Non-Revenue Card as identified in Section 102.16 shall be permitted to use the access point. After each use, the gate must be closed and locked. Prior to submitting the final package to CAB, the CEM is to obtain the return of all keys issued to the Contractor. Any keys not returned are to be documented and a check for the amount indicated in the key agreement is to be provided by the Contractor. The CEM will forward all gate keys returned and the missing key documentation and check to the Construction Documentation Specialist.

REQUEST TO INSTALL TEMPORARY ACCESS GATES

The Contractor may have a need to access the work site from an area which does not have permanent gate access. The Contractor shall submit a request to install a temporary access to the CEM. The request shall include a site plan of the requested access location along with details of the gate installation, security and anticipated duration of the temporary access location. The CEM will review and if acceptable approve the request. Upon completion of the project, the temporary access gate shall be removed and the area returned to pre-construction condition.

GATE MONITORING PROCEDURES

Comply with Section 901.3(a).



STANDARD SPECIAL PROVISION

Detail

Index or Category: Non-Pay Item Related

Status: **Active**

Sequence ID: 12201

District: CO

Version: A

Provision Name: a12201 PENNSYLVANIA TURNPIKE COMMISSION

Usage Information

Measurement: Dual

Edit Body: No

Include on all projects: No

Edit Header: No

Include on all federally funded projects: No

Edit Project Specific Details: No

Include on all 100% State funded projects: No

Instructions for Usage: Use on projects involving Pennsylvania Turnpike Commission right of way.

This Standard Special Provision was identified as S00(ND00511A) in CMS.

408 Section:

Effective From: 07/18/2002

To: 01/01/2999

Associated Items

Item Number	Description
<i>No records found.</i>	

Header

PENNSYLVANIA TURNPIKE COMMISSION

Provision Body

I. GENERAL - It is the expressed intent of this Special Provision to keep to a minimum any interference with traffic on the Pennsylvania Turnpike.

Make arrangements with the Pennsylvania Turnpike Commission, regarding operations on, over, or under right of way owned by the Turnpike Commission, to provide flagmen, watchmen, safeguards, and any other required services.

In addition to the requirements specified above, note the following:

(a) Before starting any work within Turnpike right of way, submit to the Chief Engineer of the Pennsylvania Turnpike Commission, for approval, a detailed plan of the proposed sequence of operations to maintain traffic as specified together with a plan of suggested traffic movement during construction operations. Adhere rigidly to the approved plan.

(b) Advise the Chief Engineer of the Pennsylvania Turnpike Commission, in writing, before any work is started within the Turnpike right of way. Do not obstruct any portion of the shoulders, pavement, or medial strip without prior written approval of the Chief Engineer of the Pennsylvania Turnpike Commission.

(c) Maintain normal travel lanes in each direction to the fullest extent possible. If lane restrictions are necessary, specific work hours will be provided.

(d) Place protection shields, or other protective devices acceptable to the Pennsylvania Turnpike Commission, under the bridge structure in a position which will maintain a clearance of 4.45 m (14-1/2 feet) and prevent objects from falling onto the Turnpike roadway, its median, and shoulder area, at all times.

(e) Operate equipment and trucks, provide temporary access, and implement parking restrictions, etc., in accordance with applicable portions of the Specifications for Maintenance and Protection of Traffic.

(f) Place bridge beams, or other major construction units, across the Turnpike only during the specified time period. Do not stop traffic for more than 15 minutes during any one stoppage. Have the Pennsylvania Turnpike Commission's authorized representative, the Pennsylvania State Police, control successive stoppages of traffic.

(g) In the event falsework, cranes, or other equipment occupy the shoulders or medial strip in a manner that does not require lane restrictions, prior to such occupancy, submit to the Chief Engineer of the Pennsylvania Turnpike Commission, for approval, a sketch showing the protective signing and devices which will be used.

(h) Erect warning signs as indicated on the Pennsylvania Turnpike Commission's Standard Drawing(s) for Maintenance and Protection of Traffic.

(i) In the event any operations on or over Turnpike right of way are considered unsafe by the Turnpike Police or Turnpike Engineer, immediately stop work until the unsafe condition is corrected. The Chief Engineer of the Pennsylvania Turnpike Commission, Captain of Police, or their designated representatives will be the sole judge of the adequacy of any corrective measures.

(j) Upon completion of construction operations, restore all Turnpike facilities and property to a satisfactory condition acceptable to the Chief Engineer of the Pennsylvania Turnpike Commission.

II. SAFETY -

The safety of patrons on the Turnpike is deemed paramount by both the Pennsylvania Turnpike Commission and the Department. To maintain the patrons' safety to the maximum extent possible, accept responsibility for the following:

(a) Turnpike Commission Engineer. The Pennsylvania Turnpike Commission may require one of its engineers to be on site, for inspection purposes, during project operations within Turnpike right of way.

(b) State Police. When, in the opinion of the Pennsylvania Turnpike Commission, the construction work creates a hazard to the safe flow of Turnpike traffic, the Turnpike Commission may place qualified personnel at the work site, including members of the Turnpike Detail of the Pennsylvania State Police, in addition to that required by the contract. Providing such personnel and other precautionary measures does not relieve the Contractor from liability for payment of damages resulting from acts of the Contractor, employees, or others undertaking work on the Contractor's behalf.

(c) Flagmen. Whenever the Pennsylvania Turnpike Commission deems it necessary to halt the flow of traffic, provide competent, able-bodied watchmen or flagmen to assist the State Police. Instruct watchmen or flagmen to perform their duties in the manner directed by the State Police and provide them with appropriate Stop and Slow paddles and/or flags and clothing as directed by the Turnpike Commission's Director of Safety. Failure to provide said personnel will give the Turnpike Commission sufficient authority to do so at the Contractor's expense.

(d) Blasting. Carry out all blasting operations in accordance with the Regulations of the Department of

Labor and Industry for the Storage, Handling, and Use of Explosives as promulgated October 23, 1957, and as thereafter amended and supplemented. Comply fully with all provisions of any statutes, ordinances, and regulations, of the United States Government, the Commonwealth of Pennsylvania, and the Political Subdivisions in which the work is to be performed, that may be applicable to the subject of blasting. In addition to the blast warnings required by the regulations and applicable law, place signs, prior to the arming of blasting charges, warning of the imminence of blasting operations and prohibiting the use of all radio and telephone communications within the immediate area. Place these warning signs at all roads within a radius of one-half mile of the work site, including the Turnpike.

NOTE: Do not carry out blasting operations within 150 m (500 feet) of Turnpike right of way fences except during the specified time period. Give 24 hours prior notice to the Chief Engineer of the Pennsylvania Turnpike Commission of the intention to set off blast and state the time of blast. Do not detonate any blast until the State Police are at the site to control traffic.

(e) Parking. Turnpike traffic regulations prohibit parking of nonessential construction vehicles on or adjacent to the travel lanes of the Turnpike. Do not allow employees to park their cars within Turnpike right of way, including Interchange areas. Do not allow employees to ride on the outside of any vehicle. Do not allow passengers to be discharged from vehicles within 10 feet of any paved travel lane.

Turnpike regulations also prohibit U-turns and the crossing of travel lanes with vehicles and equipment.

(f) Fencing. After the right of way fence is opened and until such time as it is satisfactorily re-erected after completion of the work, prevent entry of all unauthorized persons, especially children, and animals onto Turnpike right of way. In addition to watchmen, guards, and flagmen, erect temporary fencing as approved by the Pennsylvania Turnpike Commission. Anchor fencing at the construction site as directed by the Chief Engineer of the Pennsylvania Turnpike Commission. Satisfactorily reset any right of way fence removed during contract operations at no expense to the Turnpike Commission or the Department.

III. RESPONSIBILITY -

The Pennsylvania Turnpike Commission has no financial obligation or responsibility whatsoever in connection with the construction work undertaken by the Department and the Contractor.

Project Specific Details

Audit Information

Created By	Created On	Modified By	Modified On
William Kosco/PennDOT	06/25/2002 01:12:01 PM	Scott G Vottero/PennDOT	06/01/2009 09:13:31 AM

You are currently logged in as **Brian M. Ranck**.

Release: 45.1
Session size: 0.1k

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Tue Nov 08 12:53:44 EST 2016
Official ECMS Date/Time

REPLACES	PENNSYLVANIA TURNPIKE COMMISSION	PART	SECTION	PAGE
Part B 10-3 Pages 1-3		B	10-3	1 of 3
DATED	CONSTRUCTION OPERATIONS MANUAL	DATE	09-20-16	
01-01-14				
SUBJECT				
PLANNING TRAFFIC STOPPAGES AND PACING ON CONSTRUCTION CONTRACTS				

The purpose of this section is to prepare, coordinate, and properly plan for the execution of traffic stoppages (Plan X) and pacing of traffic for construction projects.

The need for a Plan X operation and pacing of traffic must be dictated in the contract specifications or deemed in the best interest of the Turnpike, to allow the implementation of a Plan X or paces. Time constraints for the Plan X or paces are in accordance with contract requirements.

Erection/Demolition Plan

The contractor must submit for review and approval an erection/demolition plan a minimum of ten (10) days prior to the Field Coordination meeting.

Field Coordination Meeting

Two weeks prior to the operation, a coordination meeting shall be held to define roles for the upcoming event. The contractor’s personnel will discuss the planned operation. The Turnpike will be represented by Engineering, Maintenance, Fare Collection and PSP. PTC Project Manager will identify equipment and manpower needs of internal departments (including PSP). If the project has a Transportation Management Plan (TMP) the Traffic Incident Management Coordinator should also be invited to this meeting.

Roles and Responsibilities

PTC Project Manager

- Hold meetings and provide minutes to be distributed
- Issue e-mail to Operations Center and all internal stakeholders notifying of upcoming stoppage or pace, including scheduled and back-up date, and required responsibilities
- Create Maintenance Service Request in SAP 1 week prior to event
- Provide suggested advisory, provide Engineering Department approvals and provide final review of press release to Marketing
- Post final press release to project-specific website, if applicable
- Review project for controlled access for media to visit project (coordinate with Public Information)
- Notify regional Concession Services Business Representative if Service Plaza is impacted
- Provide charge number to all involved parties

Part B	Section 10-3	Page 2 of 3	Date 09-20-16
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Inspector-In-Charge

- Coordinate field responsibilities between contractor, PSP, MTC, etc.
- Establish contact chain (including phone numbers) for last minute problems/cancellations
- Verify inspection and following of the demo/erection plan.
- Check message boards and HARs for proper messages, locations and coverage. (advance, during, after)
- Coordinate a final field meeting prior to stoppage or pace to ensure everything and everyone is prepared to go
- Inform operations center when the operation begins and is complete
- Issue e-mail to Operations Center and all internal stakeholders 2 days prior to event providing final confirmation

State Police

- Assist with stops and coordination.
- Incident command (establish a control location and provides all on-site coordination with Operations Center)
- Sergeant of the affected Pennsylvania State Police (Troup T) will be notified. Sergeant or representative will attend meeting.

Maintenance

- Assist with traffic control
- Close interchange ramps
- Provide additional message boards
- District Superintendent or designee attend meeting

Fare Collection

- Notifications to public (handouts of detour)
- Need to provide additional staffing at interchanges
- District Manager or designee attend meeting

Outside Townships/Municipalities/PENNDOT

- Will receive additional traffic detoured from the turnpike
- Off turnpike construction zones may be affected
- PennDOT's District Turnpike Coordinator to be invited for bridges carrying SRs
- If SR is part of detour route, District Community Relations Coordinator copied on advisory

Marketing Department (Public Information)

- Prepare and issue traffic advisories that will get media coverage
- Post advisory to PTC website

Part B	Section 10-3	Page 3 of 3	Date 09-20-16
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Operations Safety and Incident Response

- Attend meeting
- Notify authorized services (fire, ambulances)
- Central communication control and coordination
- Activate HARs day of event
- Activate permanent VMSs day of event

Contractor

- Provide the required traffic control assistance and coordination
- Provide a list of activities and anticipated timeline of work to be performed during the traffic restriction
- Provide a single contact for coordination
- Insure all over-dimension permits are obtained 1 week prior to event

Project Inspection Team

- Provide a single contact with cell phone number for coordination with PSP, contractor, and inspection staff
- Assure staff is aware of time frames and communications for the traffic restriction

Technology to Utilize

- Turnpike Web Site
- Project-specific web site, if applicable
- Multi-media (traffic advisory)
- HAR/ Permanent VMS (day of event)
- VMS (portable)(one week advance)
- PENNDOT HARs/VMS (one week advance)

Documentation

- Notifying individuals of meeting and specific responsibilities will be sent out through e-mail
- Minutes to meeting will be issued via e-mail and will be filed in PCDS.

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