

**OHIO TURNPIKE AND
INFRASTRUCTURE COMMISSION**

ADDENDUM NO. 2

CONTRACT NO. 43-14-03

**BRIDGE REPAIRS
OHIO TURNPIKE RAMP OVER S.R. – M.P. 187.0
PORTAGE COUNTY, OHIO**

OPENING DATE: *EXTENDED TO 2:00 P.M. (E.D.T.), MARCH 12 19, 2014*

ATTENTION OF BIDDERS IS DIRECTED TO:


ANSWERS TO QUESTIONS RECEIVED THROUGH 4:00 P.M. MARCH 11, 2014

**MODIFICATIONS TO THE CONTRACT DOCUMENTS
COVER SHEET AND NOTICE TO BIDDERS PAGE NB-1**

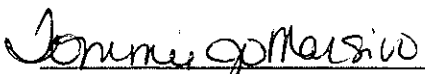
**MODIFICATIONS TO THE BID FORM
Pages revised: OTC-BF-2**

**MODIFICATIONS TO THE DRAWINGS
Contract Drawings: Sheets 1, 2, 3 and 4 of 4**

Issued by the Ohio Turnpike and Infrastructure Commission on March 12, 2014. Issuance authorized by Richard A. Hodges, Executive Director, and Tommie Jo Marsillio, Director of Contracts Administration.



Richard A. Hodges 3/11/14
Date



Tommie Jo Marsillio 3/12/14
Date

**OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION
ADDENDUM NO. 2
CONTRACT NO. 43-14-03**

ANSWERS TO QUESTIONS RECEIVED THROUGH 4:00 P.M., MARCH 11, 2014

Q#1 Restated: Due to the small quantity and nature of the repair, we request the Ref. No. 6 be changed From: 513 STRUCTURAL STEEL MEMBERS, LEVEL 1, AS PER PLAN; To: 513 STRUCTURAL STEEL MEMBERS, LEVEL UF, AS PER PLAN. This is typical for these projects. The purpose of the change is to reduce costs.

A#1 The suggested change is acceptable.

Additional Answer and Clarification: The Commission has no preference between the acceptable steel members. Accordingly, 513 STRUCTURAL STEEL MEMBERS, LEVEL 1 may be used OR 513 STRUCTURAL STEEL MEMBERS, LEVEL UF, may also be used. The bid sheet and plans have been updated accordingly.

Q#4 The Maintaining Traffic plansheet 1/2 shows a Truck mounted attenuator "see note 14C". The note on MT 2/2 says it will be specified on the plans. A TMA isn't specified in the traffic notes on page 2 of 4 and there is no pay item for it. Is the use of a truck mounted attenuator for the Northbound OH 14 short term lane closures required?

A#4 Yes, a truck mounted attenuator is required on the shadow vehicle and shall be included for payment with Item 614 – MAINTAINING TRAFFIC, AS PER PLAN.

Q#5 What are the permissible hours (per day of week) for single lane closures on SR14 below the bridge?

A#5 The State of Ohio Department of Transportation Permit No. POR 480-16 is included with this Addendum and all Work shall be performed in accordance with the terms, conditions and restrictions therein. Lane closures shall not be permitted Monday through Friday between the hours of 6:00 AM and 9:00 AM and between the hours of 2:00 PM and 6:00 PM. There are no lane closure restrictions on Saturday or Sunday. No work within the ODOT right of way shall be permitted if visibility is limited due to rain, snow or fog.

Q#6 What is the maximum number of days (if applicable) that lane closures may occur on SR14?

A#6 There is not a limit to the maximum number of days that lane closures may occur on State Route 14. However, the completion date requirements of SP 103 shall be met.

Q#7 Will the shadow vehicle be required to be equipped with a truck mounted attenuator?

A#7 See response to Q#4 above.

Q#8 Does new steel have to be furnished as blasted & primed or can it be installed “bare” and prepped along with areas of existing steel under future/ separate contract?

A#8 The new steel does not have to be furnished as blasted & primed. It will be painted along with the other areas of steel in a separate contract.

Q#9 Please verify that the repair limits defined in the drawings can be achieved through the use of single lane closures only and no work will be require imposition of the adjacent lane.

A#9 The extent of the deformation due to the vehicular impact extends southwest to the field splice, however, the straightening will need to be performed in the first 2 diaphragm spacings south of Pier 3 which is approximately above the shoulder and the adjacent 1st lane. The repairs should be able to be completed using a single lane closure per Standard Drawing MT-95.30.

Q#10 Please clarify why sheet MT-101.60 was included in the bid documents as it appears no full closures are allowed.

A#10 Maintenance of Traffic shall be performed according to Standard Drawing MT-95.30. Standard Drawings MT-95.50 and MT-101.60 are included since they are referenced on Standard Drawing MT-95.30.

Q#11 What is the OTC anticipated NTP/ commencement date?

A#11 The anticipated notice to proceed date is no earlier than March 31, 2014.

MODIFICATIONS VIA ADDENDUM NO. 2 TO THE CONTRACT DOCUMENTS FOR CONTRACT NO. 43-14-03

The following changes were made to the Contract Documents for Contract No. 43-14-03:

MODIFICATIONS TO THE BID FORM

Deletions are shown with ~~strikethrough~~ text.

Changes/Additions are shown with ***bold italicized*** text.

Reference Item Number 6: Revise item description from STRUCTURAL STEEL MEMBERS, LEVEL 1, AS PER PLAN to STRUCTURAL STEEL MEMBERS, LEVEL 1 ***OR LEVEL UF***, AS PER PLAN.

MODIFICATIONS TO THE COVER SHEET AND NOTICE TO BIDDERS

Deletions are shown with ~~strikethrough~~ text.

Changes/Additions are shown with ***bold italicized*** text.

Cover Sheet and Notice to Bidders Page OTC-NB-2: The Bid Opening date has been extended from 2:00 P.M. (E.D.T) March 12, 2014 to 2:00 P.M. (E.D.T) March **19**, 2014.

MODIFICATIONS TO THE PLAN DRAWINGS

Modifications to the Plan Drawings

Deletions in Plan Notes are shown with ~~strikethrough~~ text.

Changes/Additions in the Plan Notes are shown with ***bold italicized*** text.

Additions and deletions on Plan Drawings are indicated with a cloud and revision triangle thus:



PLAN SHEET 1 OF 4: Remove reference to Ohio Department of Transportation Standard Drawing ~~MT-97.10~~ under listing of Ohio Department of Transportation Standard Construction Drawings.

PLAN SHEET 2 OF 4: Under BRIDGE STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS, revise reference to ODOT Standard drawing from ~~MT-97.10~~ to ***MT-95.30 Dated 7-19-13***.

Under ITEM 614 – MAINTAINING TRAFFIC, AS PER PLAN, revise reference from ~~MT-97.10~~ TO ***MT-95.30*** and add note number 4, ***A TRUCK-MOUNTED ATTENUATOR (TMA) SHALL BE USED TO PROTECT WORKERS ON S.R. 14.*** In GENERAL SUMMARY, revise item description to ***STRUCTURAL STEEL MEMBERS, LEVEL 1 OR LEVEL UF, AS PER PLAN.***

PLAN SHEET 3 OF 4: In PARTIAL FRAMING PLAN, revise note from INCLUDE FOR PAYMENT WITH ITEM 513 – STRUCTURAL STEEL MEMBERS, LEVEL 1, AS PER PLAN to INCLUDE FOR PAYMENT WITH ITEM 513 – STRUCTURAL STEEL MEMBERS, LEVEL 1 ***OR LEVEL UF***, AS PER PLAN.

PLAN SHEET 4 OF 4: In plan sheet notes, revise note to COSTS FOR NEW BOLTS AND ALL ASSOCIATED LABOR TO REMOVE AND SUBSEQUENTLY REINSTALL DIAPHRAGMS, SHALL BE INCIDENTAL TO ITEM 513 – STRUCTURAL STEEL MEMBERS, LEVEL 1 ***OR LEVEL UF***, AS PER PLAN.

ATTACHMENTS:

State of Ohio Department of Transportation Permit No. POR 480-16 dated 2/12/2014.

Contract Drawings: Sheets 1, 2, 3 and 4 of 4

Bid Form: 1 page, OTC – BF-2

(BIDDERS ARE ADVISED TO UTILIZE THE ATTACHED REPLACEMENT PAGES).

Addendum No. 2 is hereby acknowledged:
Contract No. 43-14-03

(Firm Name)

(Signature)

(Printed Name)

Date: _____

Ohio Turnpike and Infrastructure Commission
682 Prospect Street
Berea, Ohio 44017

CONTRACT NO. 43-14-03
BRIDGE REPAIRS
OHIO TURNPIKE RAMP OVER S.R. 14 – M.P. 187.0
PORTAGE COUNTY, OHIO

OPENING DATE: 2:00 P.M. (E.D.T.), MARCH 12 19, 2014

Submitted By:

Company Name: _____

Contact Name: _____

Street Address: _____

City: _____

State: _____ Zip Code: _____

Telephone Number: _____

Fax Number: _____

Email: _____

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OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

682 Prospect Street
Berea, Ohio 44017

NOTICE TO BIDDERS

Sealed Bids will be received by the Ohio Turnpike and Infrastructure Commission ("Commission") at 682 Prospect Street, Berea, Ohio 44017 for the following Project:

CONTRACT NO. 43-14-03
BRIDGE REPAIRS
OHIO TURNPIKE RAMP OVER S.R. 14 – M.P. 187.0
PORTAGE COUNTY, OHIO

Bids are to be submitted in accordance with the Contract Documents prepared by the Commission

Prevailing Wage Rates and Equal Employment Opportunity requirements are applicable to this Project.

All Bidders entering into a Contract on a Commission-administered Project and their Subcontractors will be required to be enrolled, and in good standing in a "Drug-Free Safety Program" approved by the Ohio Bureau of Workers' Compensation.

Pollution Liability Insurance is not required under GC Art. 12.1.4 for this Project. Builder's Risk Insurance is not required under GC Art. 12.2 for this Project.

Bids will be received for:

Repair of bridge components, including: damaged structural steel members by heat straightening, cracked diaphragm members, maintenance of traffic; and all other items incidental to the completion of the Work. All Work is to be performed as per the Plans, Drawings, Specifications, Special Provisions, and other Contract Documents for Contract No 43-14-03.

Bids will be accepted until **March 12 19, 2014, at 2:00 P.M (E.D.T.)**, when all Bids will be accessed, opened and read aloud. To avoid a potential extension of the Bid Opening date and/or a potential rejection of all Bids, it is imperative that Bidders submit all questions in a timely manner and no later than seven (7) days prior to Bid Opening.

Contract Documents are available by contacting the Commission's Procurement Department, 682 Prospect Street, Berea, Ohio 44017, Telephone (440) 234-2081.

BID FORM CONTRACT NO. 43-14-03

Ref. No.	Item No.	Item Description	Approx. Quantity	Unit	Unit Cost	Extended Bid Amount
GENERAL (Ref. Nos. 1 - 3)						
1	IB-ART.6	PREMIUM FOR CONTRACT PERFORMANCE BOND AND PAYMENT BOND	1	LUMP		
2	614	MAINTAINING TRAFFIC, AS PER PLAN	1	LUMP		
3	624	MOBILIZATION	1	LUMP		
TOTAL - GENERAL						
STRUCTURE - OHIO TURNPIKE RAMP OVER S.R. 14, MP 187.0 (Ref. Nos. 4 - 10)						
4	513	STRUCTURAL STEEL MISC., PENCIL ABRASIVE BLASTING, GRINDING AND NDT, AS PER PLAN	3	EACH		
5	513	STRUCTURAL STEEL MISC., DRILLING STRUCTURAL STEEL, GRINDING AND NDT, AS PER PLAN	3	EACH		
6	513	STRUCTURAL STEEL MEMBERS, LEVEL 1 <i>OR LEVEL UF</i> , AS PER PLAN	1	LUMP		
7	849	DAMAGE ASSESSMENT	1	LUMP		
8	849	SURFACE PREPARATION	1	LUMP		
9	849	REPAIRING DAMAGED MEMBERS BY GRINDING	1	HOURS		
10	849	STRAIGHTENING DAMAGED MEMBERS	1	LUMP		
TOTAL - STRUCTURE						

BID SUMMARY

The total amount of the preceding Bid, based upon the approximate quantities given above, and the Unit Prices and Lump Sum specified by the undersigned, amounts to the sum of:

TOTAL BASE BID (INCLUDES REF. NO. 1 THRU REF. NO. 10) ----->

THE BID, FOR CONTRACT No. 43-14-03, OF UNIT PRICE EXTENSIONS IS ALL LABOR, EQUIPMENT AND MATERIALS, FOR THE SUM OF:

(Sum in words) _____ DOLLARS

Item No.'s that do not have an IB or SP designation are items drawn from the 2010 ODOT CMS. Bidders should refer to the 2010 ODOT CMS for information and guidance concerning these items.

MR 509

Permit No. **POR 480-16**

State of Ohio
Department of Transportation
Permit

Office Use Only	
County or	Jurisdiction <u>Portage</u>
Rte <u>480</u>	Log Pt <u>1.29</u>
AccCat <u>N/A</u>	

[1] Subject to all terms, conditions, and restrictions printed, written below and on the reverse side hereof, or attached,

Name Ohio Turnpike and Infrastructure Commission
Address 682 Prospect St Berea OH 44017
Phone (440) 234-2081 is hereby granted a permit under Section 5515 01 and 5515 02 of Ohio Revised Code, and permission to perform work necessary in the manner described and at the location indicated in the following or as attached to this permit

To perform lane closures for the purpose of maintenance/repair/painting the existing Ohio Turnpike bridge in the ODOI right of way along IR 480 in Portage County. All the requirements of ODOT Supplemental Specifications shall be complied with (see attached).

This permit shall be in the possession of employees on site at all times who are in charge of the work and shall be shown, upon request, to any employee of the Department of Transportation

[3] No work authorized by this permit shall begin until the permittee has contacted and received instructions from

Mark Griffiths, County Manager Phone (330) 298-9010
(Authorized ODOT Employee)

NOTE: Any work performed by the permittee may be stopped if the above requirements are not met

[4] To the extent applicable, this permit shall be void if the work described herein does not comply with the conditions, terms, and requirements applicable to this permit, and if the work is not completed by 12-31-2014

[5] All work requiring persons or vehicles within ODOT right of way shall comply with all applicable requirements of the Ohio Manual of Uniform Traffic Control Devices and Item 614 (Maintaining Traffic) of the Construction and Material Specifications, latest editions. Failure to comply with these requirements will be cause for immediate revocation or suspension of the permit until the proper traffic control devices have been provided.

[6] The permittee accepts the conditions, terms, and requirements printed, written on, or attached to this permit and understands that failure to comply fully with those conditions, terms, and requirements or any change in the use of this permit inconsistent with its terms and conditions will be considered a violation and cause for suspension, revocation, or annulment of the permit thereby rendering the permit illegal and subject to appropriate Department action, up to an including removal of the installation, if applicable, at the permittee's expense.

[7] Performance Bond Required? Yes ___ No X

Surety Company _____

Effective Date _____ Expiration Date _____ Amount \$ _____

Permittee: Anthony D. Yaw

Director: [Signature]

Date: 3/11/14

Date: 02-12-2014

RECEIVED

FEB 18 2014

**CHIEF ENGINEER
OTIC**

(See Other Side)

General Provisions Applicable to All Permits

(Sections 5515.01 and 5515.02 of O R C)

[1] This permit is not a substitute for satisfying the rights or obligations of any other party who may have an interest in the underlying fee interest

[2] The granting of this permit does not convey to the permittee or to the property served any rights, title, or interest in state highway rights of way or in the design or operation of the state highway; or in any way abridge the right of the Director of the Department of Transportation in his jurisdiction over state highways. If, in the process of any future work or for the benefit of the traveling public, it becomes necessary, in the opinion of the Director of Transportation to order the removal, reconstruction, relocation, or repair of any of the fixtures, or work performed under this permit, said removal, reconstruction, relocation, or repair shall be wholly at the expense of the owners thereof or the permittee and be made as directed by the Director of Transportation. Such changes in the state highway design or operation, necessary for improved safety and operation or for the benefit of the traveling public, shall not require a permit modification since the permit confers no private rights to the permittee over the control of the state highway.

[3] The District Deputy Director acts for and on behalf of the Director in issuing and carrying out the provisions of all permits. The District Deputy Director has full authority to ensure that all provisions of the permit are met and to reject any materials, design, and workmanship that do not meet applicable Department standards. The District Deputy Director, at his/her discretion, may require a performance bond or certified check as a prerequisite to the issuance of a permit

[4] Failure on the part of the permittee to comply fully with the provisions and conditions of the permit will be cause for suspension, revocation, or annulment of the permit thereby rendering the permit illegal and subject to appropriate Departmental action. By accepting the permit, the permittee agrees to comply with all conditions, terms, and restrictions printed or written on or attached to the permit. If the permittee performs any work contrary to the conditions of the permit or to the instructions of the District Deputy Director and, after due notice, fails to correct the problem, the Department of Transportation may, with or without notice, correct such work and the permittee shall reimburse the Department for the costs

[5] The permittee shall indemnify and hold harmless the State of Ohio, Department of Transportation, its officers, representatives and assigns, from any and all loss, liability, damages, litigation costs, and claims for injury or death to any person, property, or business caused by or resulting from any act, omission, event, consequence, or occurrence, negligent or otherwise of the permittee, his employees, or assigns as a result of the issuance of this permit.

[6] All work authorized under the permit shall be performed to the Department's satisfaction, and the entire expense shall be borne by the permittee. No work shall be performed until the permittee has contacted the Department's appointed representative named on the permit and received instructions. The Department's representative may inspect all work covered by the permit, or the Department reserves the right, during the time any or all of the work is being performed, to appoint an inspector over the work who shall represent the interest of the State on the work and any compensation arranged for shall be paid wholly by the permit holder. Work not in compliance shall be halted and the District Deputy Director shall be notified of the cause. The permittee shall be notified of the Department's action and its causes, and given an opportunity to correct the problem.

[7] Failure to complete all work within the time specified on the permit shall void the permit, thereby making the permit illegal and subject to appropriate Departmental action. The permittee may request an extension in writing from the District Office, explaining why the extension is necessary and when the work is expected to be completed

[8] All work infringing on the pavement or shoulders shall comply with applicable standards and requirements regarding traffic control devices. Failure to comply will be cause for revocation or suspension of the permit. Any closure of lanes or shoulders shall be described in terms of location, duration, time of day, etc. Such work shall not begin until all traffic control devices are in place.

[9] If any grading, sidewalk, or other work allowed by a permit interferes with the drainage of the highway in any way, such catch basins and outlets as necessary shall be constructed to take proper care of said drainage.

[10] Upon completion of the work, the permittee shall leave the highway clean of all rubbish, excess materials, temporary structures and equipment, and all parts of the highway shall be left in a condition acceptable to the Department. Upon satisfactory completion of the work authorized by the permit, the Department's appointed representative shall complete the Permit Inspection Certificate, Form No. MR 678 certifying that the permittee has complied with the terms of the permit

[11] Except as herein authorized, no excavation shall be made or obstacle placed within the limits of the highway so as to interfere with the travel over the road

[12] All pole lines are to be built in accordance with Rule 4901:3-1-08 of Ohio Administrative Code promulgated and enforced by the Public Utilities Commission of Ohio

[13] The permittee shall comply with the Air Pollution requirements of Rule 3745-17-08 of the Ohio Administrative Code promulgated and enforced by the Ohio Environmental Protection Agency

[14] The permittee certifies that he or she is fully authorized to sign this permit. This permit shall apply to and be binding upon the permittee and his/her successors in interest. No change in ownership of the underlying property or of the facility owned by permittee shall in any way alter the permittee's obligations under this permit.

[15] The permittee(s) for herself/himself/themselves/itself, her/his/their/its personal representatives, and her/his/their/its successors in interest and assigns, as a part of the consideration hereof, do/does hereby covenant and agree that:

- (1) No person on the grounds of race, color, national origin, sex, age, or disability shall be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination in the use of the above described property.
- (2) In the construction of any improvements on, over, or under the above described property and the furnishing of services thereon, no person on the grounds of race, color, national origin, sex, age, or disability shall be excluded from the participation in, be denied the benefits of, or be otherwise subjected to discrimination.
- (3) The above described property shall be used in a manner that at all times is in compliance with all other requirements imposed by or pursuant to Title 49, Code of Federal Regulations, U.S. DOT, Subtitle A, Office of the Secretary, Part 21, Nondiscrimination in Federally-assisted programs of the U.S. DOT – Effectuation of Title VI of the Civil Rights Act of 1964, and as said Regulations may be amended.
- (4) In the event that this instrument grants a lease, license, or permit and any of the above nondiscrimination covenants is breached, then the State of Ohio, Department of Transportation, shall have the unfettered right to terminate the lease, license or permit and to re-enter and repossess the above-described property and hold the same as if said lease, license or permit had never been made or issued.
- (5) In the event that this instrument grants a fee or easement interest and any of the above nondiscrimination covenants is breached, the State of Ohio, Department of Transportation, shall have the unfettered right to re-enter the above described property, and said property will thereupon revert to and vest in and become the absolute property of the State of Ohio and its successors and assigns for the use and benefit of the Department of Transportation.
- (6) In the event that this instrument grants a lease, fee or easement interest, all of the foregoing nondiscrimination covenants shall be and are covenants running with the land.

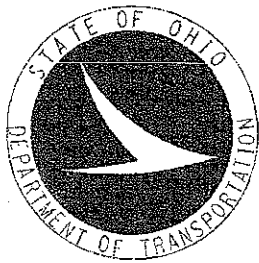
STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
Supplemental Specifications

ODOT Permit #POR 480-16

1. **Lane closures shall be limited to the hours as stated in the attached ODOT Permitted Lane Closure Chart.**
2. Traffic shall be maintained according to the current ODOT Standard Drawings and the Ohio Manual of Uniform Traffic Control Devices. Traffic shall be maintained at all times. Work zones shall be limited as not to impede the traveling public.
3. The permittee shall contact the ODOT District Public Relations Officer, Mr. Justin Chesnic (330) 786-2209 and ODOT Portage County Manager, Mr. Mark Griffiths (330) 298-9010 a minimum of 72 hours prior to any work within the ODOT right of way.
4. **No work within the ODOT right of way shall be permitted if visibility is limited due to rain, snow or fog.**
5. No storage of equipment or materials within the ODOT right of way shall be permitted at anytime.
6. No surface discharge of any liquids within the ODOT right of way shall be permitted.
7. All disturbed right of way shall be restored to it's original condition or better and seed and mulched as per Item #659, ODOT specifications.
8. Care must be taken not to disturb other utilities.
9. ODOT shall have jurisdiction over any work in the ODOT right of way and has the authority to suspend any work for noncompliance of permit.
10. If any problems occur during the installation of this facility all work must stop and ODOT notified immediately at (330) 786-3150
11. No field changes permitted without prior ODOT approval.
12. No workers cars and vehicles permitted within the Limited Access highway limits.

The provisions and conditions as outlined on Page 2 of 4 of this permit shall be applicable to the work to be done under this permit, including maintaining traffic and the use of barricades with lights for the safety of the traveling public, according to the requirements set forth in the Ohio Manual of Uniform Traffic Control Devices, unless otherwise herein stipulated. This work to be performed at no cost to the State of Ohio. This permit is not a substitute for satisfying the rights of any other party that may have an interest in the underlying fee.

*Portage County along IR 480, at the Ohio Turnpike.



WARNING

*UNDERGROUND CABLE
MAY BE IN THIS VICINITY*

IF DIGGING WITHIN 600' OF
SIGNALIZED INTERSECTION
OR HIGHWAY LIGHTING

CALL TWO WORKING
DAYS BEFORE YOU DIG :
O.D.O.T. TRAFFIC OFFICE
(330) 786 - 3145

ODOT Permitted Lane Closure												Print										
District: 4	County: POR	Route: IR-480	DIR: EAST	Calculation Year: 2014	Section: SUM Co to SR-14 (east)																	
COUNTY BEGIN LOG	0.000	Calculation Method: C		Hourly % from close ATR's applied to ADT			ATR#	766				Seasonal Traffic Adjustment										
COUNTY END LOG	2.130	Road Class: URBAN		(Urban or Rural)			ATR Year	2013				Weekday	Weekend									
STATE BEGIN LOG	40.840	Terrain: LEVEL					Percent Trucks	12				ATR	51481	38811	Summer							
STATE END LOG	42.970	Lanes per direction: 2					Annualized ADT	41700				ATR	50241	38903	Spring/Fall							
											ATR	43895	31561	Winter								
											Capacity	1490 per lane										
There shall be no lane closures on Holidays or Holiday weekends. The following are considered holidays: Memorial Day, Fourth of July, Labor Day, Thanksgiving, Christmas, New Year, Easter. No lane closures are allowed after 12 noon on the day preceding a holiday. For holiday weekends no lane closures are allowed after 12 noon on the day preceding the Holiday weekend until 6 am the day after the holiday weekend. Ex. Holiday falls on a Monday then no lane closures from 12 noon on Friday until 6 am Tuesday.																						
Ratio of Lanes: 2:1						Traffic Volume per open lane						Legend	Ratio of Lanes: 2:0									
* Lane Closure(s) Not Permitted 2:1 : Ratio Of Lanes 2 : Available Lanes 1 : Lanes Open						Season: Summer June 1 - Aug 31 Spring/Fall: Mar 1 - May 31 & Sept 1 - Nov 30 Winter: Dec 1 - Feb 29						Last Updated: 01/17/14 10:04 AM										
Season	Summer Weekday	Summer Weekend	Spring/Fall Weekday	Spring/Fall Weekend	Winter Weekday	Winter Weekend	Hour of the Day	MON-FRI	SAT-SUN	MON-FRI	SAT-SUN	MON-FRI	SAT-SUN	MON-FRI	SAT-SUN	MON-FRI	SAT-SUN	MON-FRI	SAT-SUN	MON-FRI	SAT-SUN	
0-1AM	237	383	226	345	198	295	0-1AM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted
1-2AM	155	201	155	208	135	178	1-2AM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted
2-3AM	131	181	132	203	116	174	2-3AM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted
3-4AM	144	128	142	151	124	129	3-4AM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted
4-5AM	281	199	267	175	233	150	4-5AM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted
5-6AM	576	283	575	238	502	293	5-6AM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted
6-7AM	1033	415	1065	413	630	353	6-7AM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted
7-8AM	*1588	808	*1699	578	1297	484	7-8AM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted
8-9AM	*1544	868	*1476	868	1237	589	8-9AM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted
9-10AM	1175	543	1157	839	1011	718	9-10AM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted
10-11AM	1261	1141	1121	889	979	751	10-11AM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted
11-12PM	1348	1259	1203	1108	1051	849	11-12PM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted
12-1PM	1457	1395	1250	1248	1092	1068	12-1PM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted
1-2PM	*1521	1307	1441	1140	1259	978	1-2PM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted
2-3PM	*1679	1241	*1648	1241	1441	1062	2-3PM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted
3-4PM	*2122	1326	*2050	1340	*1800	1147	3-4PM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted
4-5PM	*2898	1183	*2211	1410	*1931	1207	4-5PM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted
5-6PM	*1843	1157	*2830	1245	*1773	1065	5-6PM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted
6-7PM	*1623	898	*1668	1183	1457	1013	6-7PM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted
7-8PM	1172	875	1101	881	962	840	7-8PM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted
8-9PM	892	823	798	868	697	743	8-9PM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted
9-10PM	729	808	745	762	651	652	9-10PM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted
10-11PM	743	885	851	719	589	815	10-11PM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted
11-12AM	486	716	459	482	401	413	11-12AM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted

4.1: all shoulder closures will follow the time of day and durations given for a single lane closure

Home Search

ODOT Permitted Lane Closure																																																																																																																																																																																																																																																																																																																																																																																																															
District: 4	County: POR	Route: IR-480	DIR: WEST	Calculation Year: 2014	Section: SUM Co to SR-14 (west)							Print																																																																																																																																																																																																																																																																																																																																																																																																			
COUNTY BEGIN LOG 0.000	Calculation Method: C		Hourly % from close ATR's applied to ADT			ATR# 766	Seasonal Traffic Adjustment																																																																																																																																																																																																																																																																																																																																																																																																								
COUNTY END LOG 2.130	Road Class: URBAN (Urban or Rural)		ATR Year 2013			Weekday		Weekend																																																																																																																																																																																																																																																																																																																																																																																																							
STATE BEGIN LOG 40.840	Terrain: LEVEL		Percent Trucks 12			ATR 51481	38611	Summer																																																																																																																																																																																																																																																																																																																																																																																																							
STATE END LOG 42.970	Lanes per direction 2		Annualized ADT 41700			ATR 50241	36903	Spring/Fall																																																																																																																																																																																																																																																																																																																																																																																																							
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						Capacity 1490		per lane																																																																																																																																																																																																																																																																																																																																																																																																							
There shall be no lane closures on Holidays or Holiday weekends. The following are considered holidays: Memorial Day, Fourth of July, Labor Day, Thanksgiving, Christmas, New Years, Easter. No lane closures are allowed after 12 noon on the day preceding a holiday. For holiday weekends no lane closures are allowed after 12 noon on the day preceding the Holiday weekend until 6 am the day after the holiday weekend. Ex. Holiday falls on a Monday then no lane closures from 12 noon on Friday until 6 am Tuesday.																																																																																																																																																																																																																																																																																																																																																																																																															
<table border="1"> <thead> <tr> <th colspan="6">Ratio of Lanes 2:1</th> <th colspan="6">Ratio of Lanes 2:0</th> </tr> <tr> <th colspan="6">Traffic Volume per open lane</th> <th colspan="6"></th> </tr> <tr> <th>Season</th> <th>Summer Weekday</th> <th>Summer Weekend</th> <th>Spring/Fall Weekday</th> <th>Spring/Fall Weekend</th> <th>Winter Weekday</th> <th>Winter Weekend</th> <th>Season</th> <th>Summer Weekday</th> <th>Summer Weekend</th> <th>Spring/Fall Weekday</th> <th>Spring/Fall Weekend</th> <th>Winter Weekday</th> <th>Winter Weekend</th> </tr> <tr> <th>Hour of the Day</th> <th>MON-FRI</th> <th>SAT-SUN</th> <th>MON-FRI</th> <th>SAT-SUN</th> <th>MON-FRI</th> <th>SAT-SUN</th> <th>Hour of the Day</th> <th>MON-FRI</th> <th>SAT-SUN</th> <th>MON-FRI</th> <th>SAT-SUN</th> <th>MON-FRI</th> <th>SAT-SUN</th> </tr> </thead> <tbody> <tr><td>0-1AM</td><td>234</td><td>325</td><td>203</td><td>244</td><td>177</td><td>209</td><td>0-1AM</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td></tr> <tr><td>1-2AM</td><td>164</td><td>184</td><td>164</td><td>169</td><td>135</td><td>145</td><td>1-2AM</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td></tr> <tr><td>2-3AM</td><td>159</td><td>140</td><td>112</td><td>135</td><td>98</td><td>115</td><td>2-3AM</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td></tr> <tr><td>3-4AM</td><td>159</td><td>125</td><td>109</td><td>126</td><td>148</td><td>108</td><td>3-4AM</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td></tr> <tr><td>4-5AM</td><td>290</td><td>155</td><td>259</td><td>151</td><td>226</td><td>129</td><td>4-5AM</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td></tr> <tr><td>5-6AM</td><td>707</td><td>292</td><td>714</td><td>253</td><td>624</td><td>216</td><td>5-6AM</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td></tr> <tr><td>6-7AM</td><td>*1785</td><td>504</td><td>*1761</td><td>369</td><td>*1538</td><td>435</td><td>6-7AM</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td></tr> <tr><td>7-8AM</td><td>*2209</td><td>641</td><td>*2343</td><td>684</td><td>*2047</td><td>586</td><td>7-8AM</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td></tr> <tr><td>8-9AM</td><td>*1717</td><td>819</td><td>*1744</td><td>868</td><td>*1524</td><td>760</td><td>8-9AM</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td></tr> <tr><td>9-10AM</td><td>1382</td><td>977</td><td>1335</td><td>957</td><td>1108</td><td>854</td><td>9-10AM</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td></tr> <tr><td>10-11AM</td><td>1278</td><td>1084</td><td>1229</td><td>1126</td><td>1073</td><td>965</td><td>10-11AM</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td></tr> <tr><td>11-12PM</td><td>1313</td><td>1172</td><td>1158</td><td>1312</td><td>1010</td><td>1123</td><td>11-12PM</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td></tr> <tr><td>12-1PM</td><td>1382</td><td>1323</td><td>1319</td><td>1362</td><td>1163</td><td>1186</td><td>12-1PM</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td></tr> <tr><td>1-2PM</td><td>1472</td><td>1298</td><td>1351</td><td>1283</td><td>1180</td><td>1098</td><td>1-2PM</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td></tr> <tr><td>2-3PM</td><td>*1808</td><td>1354</td><td>*1617</td><td>1269</td><td>1328</td><td>1086</td><td>2-3PM</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td></tr> <tr><td>3-4PM</td><td>*1708</td><td>1338</td><td>*1740</td><td>1211</td><td>*1620</td><td>1037</td><td>3-4PM</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td></tr> <tr><td>4-5PM</td><td>*1781</td><td>1428</td><td>*1676</td><td>1249</td><td>1465</td><td>1089</td><td>4-5PM</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td></tr> <tr><td>5-6PM</td><td>*1719</td><td>1407</td><td>*2001</td><td>1293</td><td>*1748</td><td>1107</td><td>5-6PM</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td></tr> <tr><td>6-7PM</td><td>1403</td><td>1148</td><td>1405</td><td>1207</td><td>1227</td><td>1033</td><td>6-7PM</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td></tr> <tr><td>7-8PM</td><td>957</td><td>950</td><td>891</td><td>888</td><td>779</td><td>758</td><td>7-8PM</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td></tr> <tr><td>8-9PM</td><td>733</td><td>830</td><td>688</td><td>630</td><td>583</td><td>539</td><td>8-9PM</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td></tr> <tr><td>9-10PM</td><td>687</td><td>684</td><td>531</td><td>556</td><td>484</td><td>476</td><td>9-10PM</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td></tr> <tr><td>10-11PM</td><td>553</td><td>649</td><td>490</td><td>546</td><td>429</td><td>468</td><td>10-11PM</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td></tr> <tr><td>11-12AM</td><td>444</td><td>471</td><td>351</td><td>364</td><td>307</td><td>312</td><td>11-12AM</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td><td>Not Permitted</td></tr> </tbody> </table>												Ratio of Lanes 2:1						Ratio of Lanes 2:0						Traffic Volume per open lane												Season	Summer Weekday	Summer Weekend	Spring/Fall Weekday	Spring/Fall Weekend	Winter Weekday	Winter Weekend	Season	Summer Weekday	Summer Weekend	Spring/Fall Weekday	Spring/Fall Weekend	Winter Weekday	Winter Weekend	Hour of the Day	MON-FRI	SAT-SUN	MON-FRI	SAT-SUN	MON-FRI	SAT-SUN	Hour of the Day	MON-FRI	SAT-SUN	MON-FRI	SAT-SUN	MON-FRI	SAT-SUN	0-1AM	234	325	203	244	177	209	0-1AM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	1-2AM	164	184	164	169	135	145	1-2AM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	2-3AM	159	140	112	135	98	115	2-3AM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	3-4AM	159	125	109	126	148	108	3-4AM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	4-5AM	290	155	259	151	226	129	4-5AM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	5-6AM	707	292	714	253	624	216	5-6AM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	6-7AM	*1785	504	*1761	369	*1538	435	6-7AM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	7-8AM	*2209	641	*2343	684	*2047	586	7-8AM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	8-9AM	*1717	819	*1744	868	*1524	760	8-9AM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	9-10AM	1382	977	1335	957	1108	854	9-10AM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	10-11AM	1278	1084	1229	1126	1073	965	10-11AM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	11-12PM	1313	1172	1158	1312	1010	1123	11-12PM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	12-1PM	1382	1323	1319	1362	1163	1186	12-1PM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	1-2PM	1472	1298	1351	1283	1180	1098	1-2PM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	2-3PM	*1808	1354	*1617	1269	1328	1086	2-3PM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	3-4PM	*1708	1338	*1740	1211	*1620	1037	3-4PM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	4-5PM	*1781	1428	*1676	1249	1465	1089	4-5PM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	5-6PM	*1719	1407	*2001	1293	*1748	1107	5-6PM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	6-7PM	1403	1148	1405	1207	1227	1033	6-7PM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	7-8PM	957	950	891	888	779	758	7-8PM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	8-9PM	733	830	688	630	583	539	8-9PM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	9-10PM	687	684	531	556	484	476	9-10PM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	10-11PM	553	649	490	546	429	468	10-11PM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	11-12AM	444	471	351	364	307	312	11-12AM	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted	Not Permitted
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Legend: * Lane Closure(s) Not Permitted 2:1 : Ratio Of Lanes 2 : Available Lanes 1 : Lanes Open Season Period Summer June 1 - Aug 31 Spring/Fall Mar 1 - May 31 & Sept 1 - Nov 30 Winter Dec 1 - Feb 29 Last Updated : 01/17/14 10:54 AM																																																																																																																																																																																																																																																																																																																																																																																																															
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GENERAL NOTES

CONTRACTOR REQUIREMENTS

THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, COMPLETION AND MATERIALS SPECIFICATIONS DATED JANUARY 1, 2011, AND THE SEVERAL PROVISIONS AND GENERAL CONDITIONS CONTAINED IN THE CONTRACT DOCUMENTS SHALL GOVERN THIS PROJECT.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORMANCE WORK FOR ITEMS UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF ANY MATERIALS OR WORK ORDERED IN EXCESS OF THE QUANTITIES LISTED IN THIS PROJECT.

MAINTENANCE OF TRAFFIC

MAINTAINING TRAFFIC

THE CONTRACTOR SHALL MAINTAIN TRAFFIC AT ALL TIMES ON THE PROJECT IN ACCORDANCE WITH SP 614, SP 618, SP 619, TEMPORARY TRAFFIC CONTROL PLANS, AND OHIO TURNPIKE AND INFRASTRUCTURE AND OHIO DEPARTMENT OF TRANSPORTATION STANDARD DRAWINGS AND AS DISCUSSED BELOW.

ALL SIGNS, BARRIERS, SIGN SUPPORTS, PORTABLE CONCRETE BARRIER, AND OTHER TRAFFIC CONTROL DEVICES SHALL BE MAINTAINED AND OPERATED BY THE CONTRACTOR IN CONFORMANCE WITH THE MOST RECENT REVISION, CURRENT EDITION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR FIELD AND OFFICE USE, AND THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR FIELD AND OFFICE USE, NEW OR LIKE NEW CONDITION SUBJECT TO THE APPROVAL OF THE CHIEF ENGINEER. DEVICES USED TO MAINTAIN TRAFFIC SHALL BE REMOVED IMMEDIATELY AFTER THE TERMINATION OF THE WORK.

METHOD OF PAYMENT

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF TRAFFIC ITEMS, UNLESS SPECIFIC OTHERWISE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF TRAFFIC ITEMS, UNLESS SPECIFIC OTHERWISE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF TRAFFIC ITEMS, UNLESS SPECIFIC OTHERWISE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF TRAFFIC ITEMS, UNLESS SPECIFIC OTHERWISE.

ITEMS 614 - MAINTAINING TRAFFIC LUMP SUM

STAGING AND STORAGE OF EQUIPMENT - LUMPSUM

CONTRACTOR SHALL NOT BE RESPONSIBLE FOR THE MAINTENANCE OF TRAFFIC ITEMS, UNLESS SPECIFIC OTHERWISE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF TRAFFIC ITEMS, UNLESS SPECIFIC OTHERWISE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF TRAFFIC ITEMS, UNLESS SPECIFIC OTHERWISE.

EQUIPMENT THAT IS NOT BEING USED TO EXECUTE THE WORK OR ADJUTED TO THE ROADWAY SHALL BE REMOVED FROM THE PROJECT IMMEDIATELY. EQUIPMENT THAT IS NOT BEING USED TO EXECUTE THE WORK OR ADJUTED TO THE ROADWAY SHALL BE REMOVED FROM THE PROJECT IMMEDIATELY. EQUIPMENT THAT IS NOT BEING USED TO EXECUTE THE WORK OR ADJUTED TO THE ROADWAY SHALL BE REMOVED FROM THE PROJECT IMMEDIATELY.

TEMPORARY REMOVAL OF EXISTING PAVEMENT MARKINGS

TEMPORARY REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE REMOVED FROM THE ROADWAY TO AN OPPOSITE LOCATION. TEMPORARY REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE REMOVED FROM THE ROADWAY TO AN OPPOSITE LOCATION. TEMPORARY REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE REMOVED FROM THE ROADWAY TO AN OPPOSITE LOCATION.

ALL COSTS SHALL BE INCLUDED UNDER ITEM SP 614 - MAINTAINING TRAFFIC.

LIMITING OF THE WORKZONE

LIMITING OF THE WORKZONE SHALL BE COMPLETED PRIOR TO THE START OF WORK. LIMITING OF THE WORKZONE SHALL BE COMPLETED PRIOR TO THE START OF WORK. LIMITING OF THE WORKZONE SHALL BE COMPLETED PRIOR TO THE START OF WORK. LIMITING OF THE WORKZONE SHALL BE COMPLETED PRIOR TO THE START OF WORK.

ALL COSTS SHALL BE INCLUDED UNDER ITEM SP 614 - MAINTAINING TRAFFIC.

ITEM 614 - BARRIER REFLECTOR AND OBJECT MARKER

BARRIER REFLECTORS, TYPE B, AND OBJECT MARKERS SHALL BE INSTALLED ON ALL PORTABLE CONCRETE BARRIERS USED FOR TRAFFIC CONTROL IN THIS PROJECT.

BARRIER REFLECTORS SHALL ALSO BE INSTALLED AT 25 FEET INTERVALS ON THE EXISTING CONCRETE MEDIAN BARRIER OF THE OHIO TURNPIKE MAINTAINING TRAFFIC CONTROL ON THE SHOULDER.

ITEM 614 BARRIER REFLECTOR, TYPE B, SHALL CONFORM TO THE REQUIREMENTS OF DOT OHIO ITEM 614. THE SPACING SHALL BE 25 FEET. BARRIER REFLECTORS SHALL BE INSTALLED TO SP 614 AND ALL REQUIRED CONSTRUCTION SHALL BE COMPLETED.

LANE CLOSURES

ZONE PENETRATION RESTRICTIONS

TEMPORARY TRAFFIC CONTROL DEVICES SHALL BE LOCATED UNDER THE SUPERVISION OF A CERTIFIED HIGHWAY TRAFFIC SUPERVISOR (MVS) AS PER THE REQUIREMENTS OF SP 614.

ALL TEMPORARY TRAFFIC CONTROL MAINTENANCE SHALL BE PERFORMED BY A TRAFFIC CONTROL TECHNICIAN (TOT). THE TOT SHALL HAVE COMPLETED A MINIMUM OF 8 HOURS OF AN APPROVED TRAFFIC SAFETY CLASS IN ACCORDANCE WITH THE REQUIREMENTS OF SP 614.

- 1. 4800-374-7172
- 2. THE NATIONAL SAFETY COUNCIL, PHONE NUMBER 1-800-441-4800
- 3. THE NATIONAL HIGHWAY TRAFFIC SAFETY ASSOCIATION, PHONE NUMBER 1-800-424-6463
- 4. OHIO CONTRACTORS ASSOCIATION, PHONE NUMBER 1-614-252-1234

OHIO TURNPIKE BARRIERS

LANE CLOSURES WILL ONLY BE PERMITTED IN ACCORDANCE WITH SP 104 BY 614 AND THE APPLICABLE OHIO STANDARD DRAWINGS REFERENCED THEREIN.

THE OTD STANDARD DRAWINGS ATTACHED HEREIN ARE MEANT TO COMPLY WITH THE REQUIREMENTS OF SP 614. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF TRAFFIC ITEMS, UNLESS SPECIFIC OTHERWISE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF TRAFFIC ITEMS, UNLESS SPECIFIC OTHERWISE.

LOCAL ROADS

ALL STRUCTURES THAT CARRY SECONDARY TRAFFIC OVER THE OHIO TURNPIKE SHALL BE MAINTAINED AS REQUIRED IN CAPACITY. CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF TRAFFIC ITEMS, UNLESS SPECIFIC OTHERWISE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF TRAFFIC ITEMS, UNLESS SPECIFIC OTHERWISE.

THE OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE STATE OF OHIO. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE PERMIT AND THE DOT SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF TRAFFIC ITEMS, UNLESS SPECIFIC OTHERWISE.

ALL COSTS SHALL BE INCLUDED UNDER ITEM SP 614 - MAINTAINING TRAFFIC. ALL COSTS SHALL BE INCLUDED UNDER ITEM SP 614 - MAINTAINING TRAFFIC. ALL COSTS SHALL BE INCLUDED UNDER ITEM SP 614 - MAINTAINING TRAFFIC.

NO.	REVISIONS	DATE	BY

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

GENERAL NOTES AND TEMPORARY TRAFFIC CONTROL NOTES

REVISION	DATE	BY

CONTRACT 41-14-01 SHEET 2 OF 3

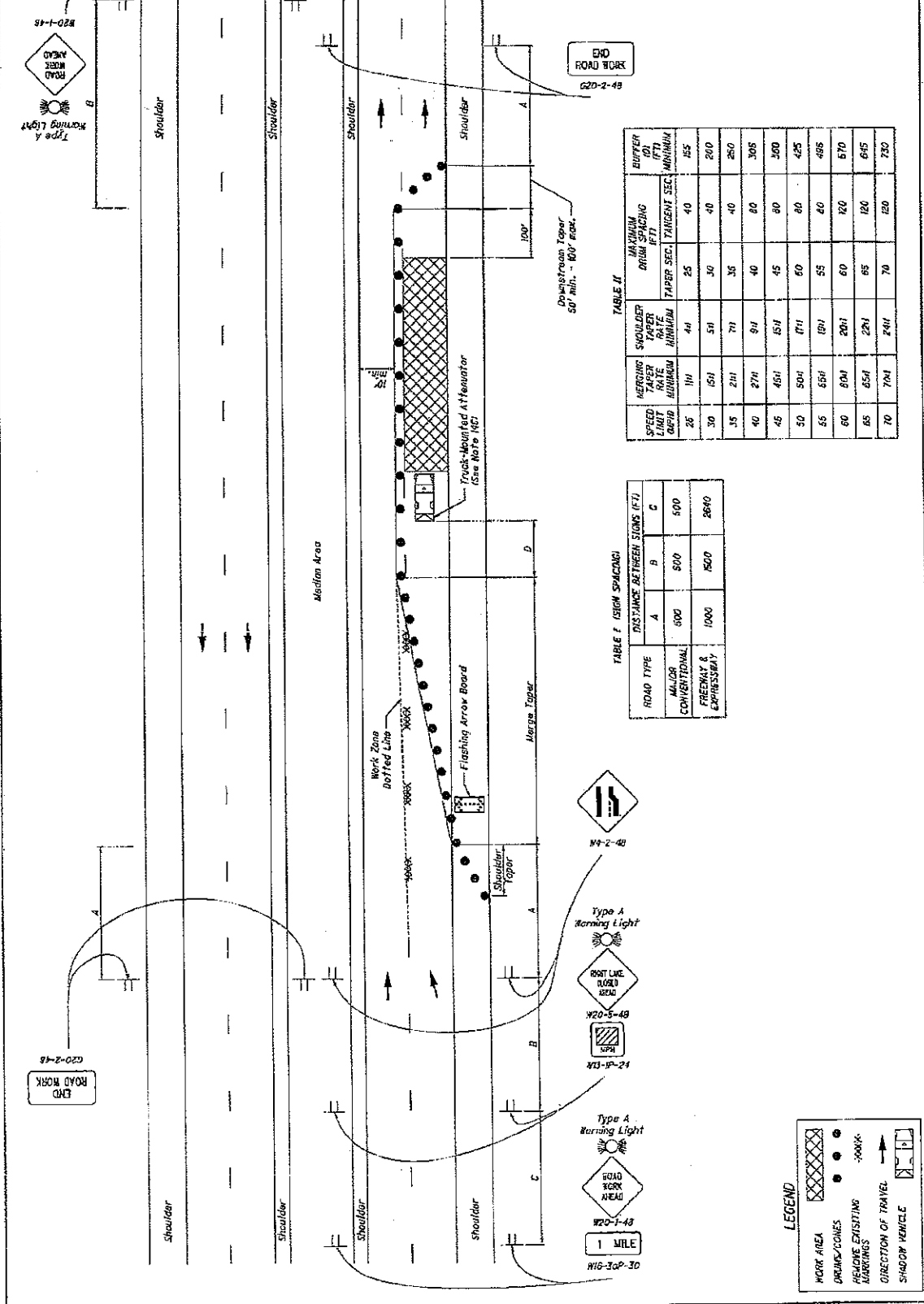
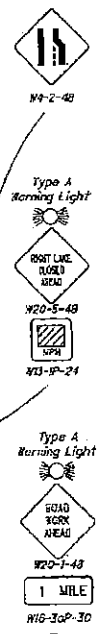


TABLE II

SPEED LIMIT (MPH)	MINIMUM TAPER LENGTH (FT)	MINIMUM TAPER RATIO	MINIMUM TAPER SEC.	MINIMUM TANGENT SEC.	MINIMUM DRUM SPACING (FT)	MINIMUM BUFFER DIST. (FT)
25	100	4:1	25	40	40	155
30	150	5:1	30	40	40	200
35	200	7:1	35	40	40	250
40	275	9:1	40	40	40	305
45	350	11:1	45	40	40	360
50	425	13:1	50	40	40	415
55	500	15:1	55	40	40	470
60	575	17:1	60	40	40	525
65	650	19:1	65	40	40	580
70	725	21:1	70	40	40	635

TABLE F (SIGN SPACING)

ROAD TYPE	A	B	C
MAJOR CONVENTIONAL	800	500	500
FREEMAY & EXPRESSWAY	1000	600	2640



LEGEND

- WORK AREA (Hatched pattern)
- DRUMS/CONES (Circle with cross)
- MARKERS EXISTING (Circle with dot)
- MARKING (Dashed line)
- DIRECTION OF TRAVEL (Arrow)
- SHADOW VEHICLE (Car icon)

Drums (cones) placed across the closed lane shall be located 25' beyond the protected pavement edge of the driveway or cross highway, as shown in SCD MT-97.11. For barricades, see SCD MT-95.00.

Existing STOP signs shall be relocated as necessary to ensure proper location for the traffic control.

The method of control shall be subject to the approval of the Engineer.

DRUMS / CONES

1A. The maximum drum spacing along tapers and along the shoulder shall be as shown in Table II. A minimum of 3 drums shall be used to close the upstream shoulder. The downstream taper drum spacing shall be approximately 20'.

1B. Cones may be substituted for drums as follows:
 a) Use of cones is permissible for either daytime operation or for nighttime operation, but shall not be used continuously, day and night. Open ends of cones shall be placed on the highway in order to resume work in the following such work period.
 b) Cones used for daytime traffic control shall have a minimum height of 36".
 c) Cones used for nighttime traffic control shall have a minimum height of 42".
 d) Use of cones of night shall be prohibited along figures.
 e) Where cones are substituted for drums along tapers, the spacing of the cones shall be as shown in Table II for the entire length of the tapered section, or drums shall be used for the entire length.
 1C. Provisions shall be made to stabilize the cones and drums to prevent them from blowing over.

SHADOW VEHICLE

14. The shadow vehicle shall be in place and operating during the entire length of the work. This vehicle shall be removed from the pavement whenever workers are not in the work area.

15. The shadow vehicle shall be equipped with a high-intensity flashing light, rotating, flashing, oscillating, or strobe lights.

16. The vehicle shall be equipped with a truck-mounted attenuator when specified in the plans.

EXTRA ADVANCE WARNING SIGNING

1. Extra Advance Warning Sign Groups consisting of ROAD AHEAD (W20-1), LANE CLOSED AHEAD (W20-5) and MATCH FOR STOPPED TRAFFIC (R10-1) signs plus distance plaques shall be placed as determined by the Engineer. See Standard Construction Drawing (SCD) MT-95.02.

PAVEMENT MARKINGS / ROPS

2A. If the construction operation requires a lane closure for more than 1 day, the existing centerline delineation shall be removed from the related pavement markers applies.

2B. Additionally, if a lane closure of greater than 3 days is required, the following shall be performed:

- a) The appropriate color work zone edge lines shall be applied along the taper.
- b) The road or covered pavement markings shall be removed or covered per SCD 89.16.
- c) Work zone dotted lines, 3' in length separated by 9' gaps, shall be provided to identify the margin.

2C. Work zone edge lines shall be provided along the taper section when specified in the plans.

2D. Work zone pavement markings which would conflict with the traffic lanes shall be removed or covered per SCD 89.16. Type II unless the area will be resurfaced prior to project completion.

2E. After completion of the work, pavement markings shall be restored to original condition and accompanied with SCD 89.16. The sign shall be restored at no additional cost unless separately itemized in the plans.

EQUIPMENT / MATERIALS STORAGE

3A. No equipment or material shall be located within the taper or buffer zone.

3B. When no work is being performed, all material and equipment shall be stored per SCD 54.01.

FLASHING ARROW BOARD

4. The flashing arrow board shall be chosen from the ODOT approved list and follow the guidelines in Supplemental Specification 601.

FLASHING WARNING LIGHTS

1. Type A flashing warning lights shown on the ROAD AHEAD (W20-1) sign and on the LANE CLOSED AHEAD (W20-5) sign as required whenever a night lane closure is necessary.

INTERSECTION / DRIVEWAY ACCESS

12. Within the length of the closure, provision shall be made to control traffic entering from intersecting streets and major drives as necessary to prevent wrong-way movements and to keep vehicles off of new pavement not ready for traffic. The contractor shall:

- a) Place across the closed lane, either 3 drums cones or barricades, and/or
- b) Provide an additional flagger at every public street intersection and major driveway.

NOTES:

DESIGN SPEED:

1. The design speed used for taper rates should typically be the posted legal speed. However, on construction projects for which the speed limit is reduced, the reduced speed may be used in determining the taper rate when the taper is not the first active construction area within the project.

TAPERS:

2A. The minimum acceptable length for the taper taper shall be as shown in Table I. The taper rate is provided in Table II.

2B. The minimum acceptable length for the shoulder taper shall be as shown in Table I. The taper rate is provided in Table II.

SIGN SPACING:

3A. The work zone sign spacings shown in Table I are minimums. Maximum spacing should not be greater than 1.5 times the distances shown in Table I.

3B. Sign spacing should be adjusted to avoid conflict with existing signs. Minimum spacing to existing signs shall be 200' for speeds of 45 mph or less and a minimum of 400' for speeds 50 mph or greater.

ADJUSTMENTS FOR SIGHT DISTANCE:

4. The location of the marking taper and the advance warning signs should be adjusted to provide for adequate sight distances for the existing vertical and horizontal roadway alignment.

BASIC SIGNING:

5A. ROAD WORK AHEAD (W20-1) signs shall be provided on entrance ramps or roadways entering the work limits.

5B. Two ROAD WORK (W20-2) signs are only required for lane closures of more than 1 day. If it is intended that these signs be placed on the mainline, on all exit ramps, and on roadways exiting the work limits.

5C. Overlapping of signing for adjacent projects should be avoided where the messages could be confusing. Any W20-1 or W20-2 signs which fall within the limits of another traffic control zone shall be omitted or covered during the period when both projects are active.

SIGNING DETAILS:

6A. The advisory Speed (M-1) plaque shall be used when specified in the plans.

6B. When the approach speed limit is 40 mph or less, 36" warning signs may be used.

6C. The distance plaque W16-20R for W20-20R. If the distance shown in the sign is less than the distance from the sign to the work zone, the distance may be increased in feet. The plaque may be omitted if Extra Advance Sign Groups are not used.

6D. Provide signing on the positive side of the highway, as shown when specified in the plans.

6E. Provide the appropriate word or symbol legend necessary on Lane Reduction (M-2, M-20-5) signs to correctly identify which lane is to be closed.

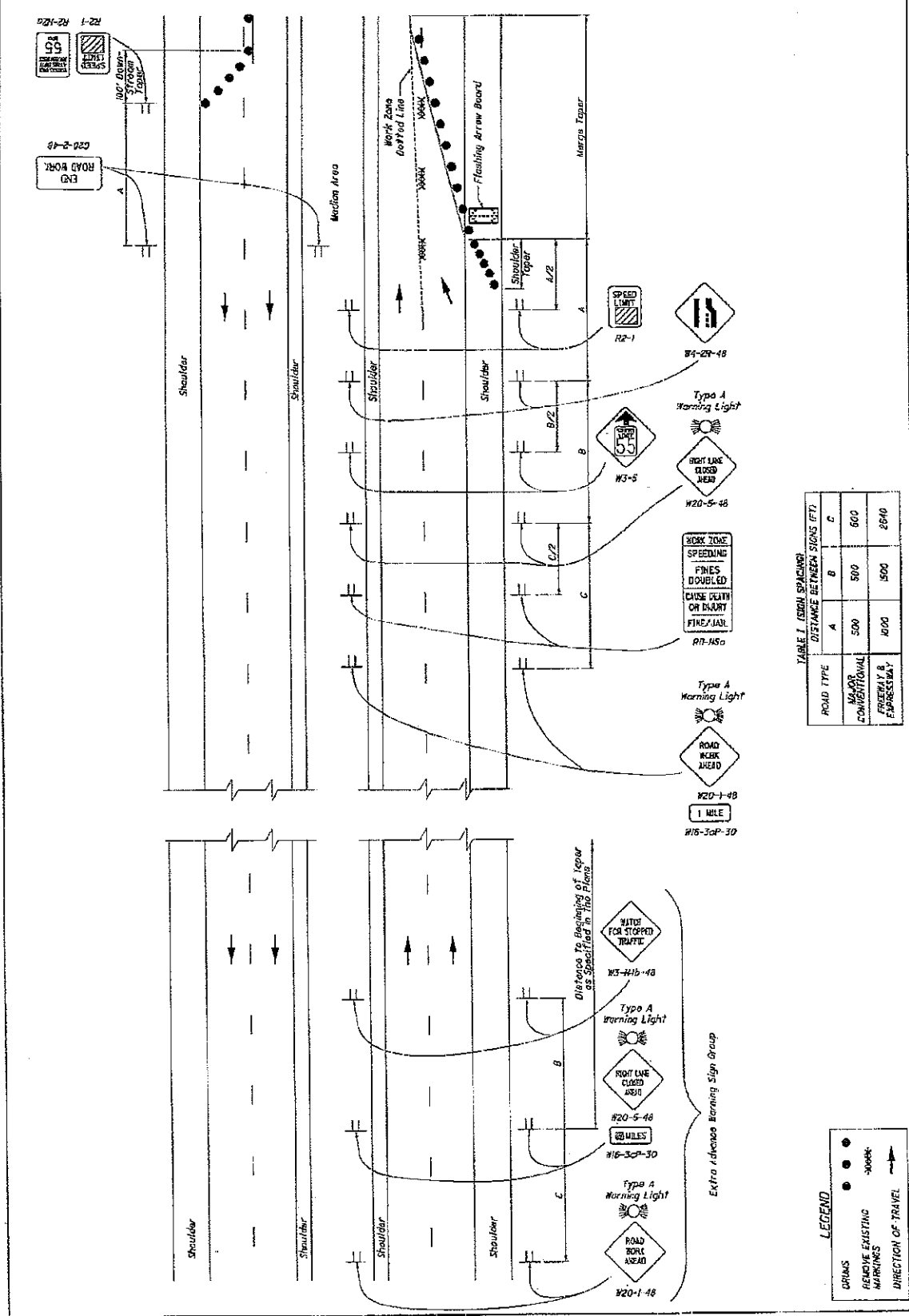
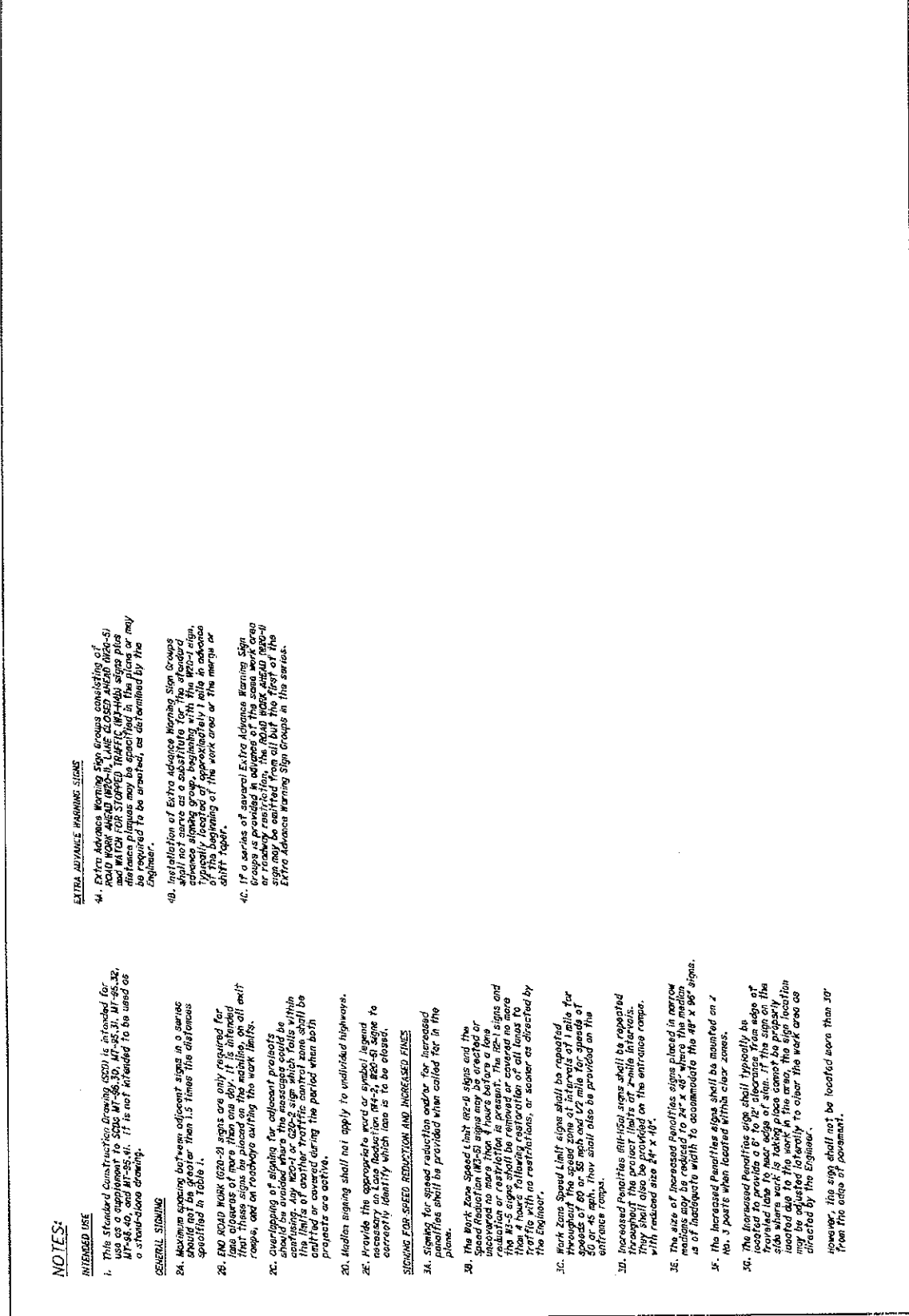


TABLE I (SIGN SPACING)
DISTANCE BETWEEN SIGNS (FT)

ROAD TYPE	A	B	C
1/4 MI. CONVENTIONAL	500	500	500
1/4 MI. EXPRESSWAY	1000	1500	2000

LEGEND
 ORANS
 REMOVE EXISTING MARKINGS
 MARKINGS
 DIRECTION OF TRAVEL



NOTES:

INCREASED USE

1. This standard construction drawing (SCD) is intended for use as a supplement to SCDs MT-56-30, MT-55-31, MT-55-32, MT-55-40, and MT-55-41. It is not intended to be used as a stand-alone drawing.

GENERAL SIGNING

24. Maximum spacing between adjacent signs in a series should not be greater than 1.5 times the distance specified in Table 1.
25. END ROAD WORK (R20-2) signs are only required for lane closures of more than one day. It is intended that these signs be placed on the mainline, on all ramps, and on roadways during the work limits.
26. Overlapping of signing for adjacent projects should be avoided where the message could be confusing. Any W20-1 or W20-2 sign which falls within the limits of another traffic control zone shall be omitted or covered during the period when both projects are active.
27. Median signing shall not apply to individual highways.
28. Provide the appropriate marker symbol legend and color for the signs. The legend shall be placed to correctly identify which lane is to be closed.

SIGNING FOR SPEED REDUCTION AND INCREASED FINES

29. Signing for speed reduction and/or for increased penalties shall be provided when called for in the plans.
30. The Work Zone Speed Limit sign and the Speed Limit sign may be erected or uncovered no more than 4 hours before a lane reduction or restriction is present. The 25-1 signs and the W-5 signs shall be removed or covered no more than 4 hours following restoration of the lane. There shall be no restrictions, or signs as directed by the Engineer.

31. Work Zone Speed Limit signs shall be repeated throughout the speed zone at intervals of 1/4 mile, for 50 or less miles, and at intervals of 1/2 mile for 51 or more miles. They shall also be provided on the entrance ramps.

32. Increased Penalties (P10-1) signs shall be repeated throughout the speed zone at intervals of 1/4 mile, for 50 or less miles, and at intervals of 1/2 mile for 51 or more miles. They shall also be provided on the entrance ramps, with reduced size 4' x 10'.

33. The size of increased Penalties signs placed in narrow roadways may be reduced to 4' x 10' if the width is 20' or less. The increased Penalties signs shall be mounted on 2 or 3 posts when located within clear zones.

34. The increased Penalties signs shall typically be located to provide a 6' to 12' clearance from edge of traveled lane to rear edge of sign. If the sign on the side where work is taking place cannot be properly isolated due to the work in the area, the sign location may be adjusted as necessary to clear the work area as directed by the Engineer.

35. However, the sign shall not be located more than 30' from the edge of pavement.

EXTRA ADVANCE WARNING SIGNS

34. Extra Advance Warning Sign Groups consisting of Advance Warning Sign, Lane Closed Ahead (W20-5) and AHEAD FOR STOPPED TRAFFIC (W20-4) signs plus distance plaques may be specified in the plans or may be required to be erected, as determined by the Engineer.
35. Installation of Extra Advance Warning Sign Groups shall not serve as a substitute for the standard advance signing group, beginning with the W20-1 sign, typically located at approximately 1 mile in advance of the beginning of the work area or the merge or shift taper.
36. If a series of several Extra Advance Warning Sign Groups is provided in advance of the work area or roadway restriction, the sign shall be placed at the beginning of the work area or the merge or shift taper. The sign shall be placed at the beginning of the Extra Advance Warning Sign Groups in this series.

THIS DRAWING REPLACES MT-95-50 DATED 1-20-2012

THIS DRAWING REPLACES M1-87.10 DATED 7-20-2012.
 STANDARD PROJECT CONSTRUCTION DETAILS

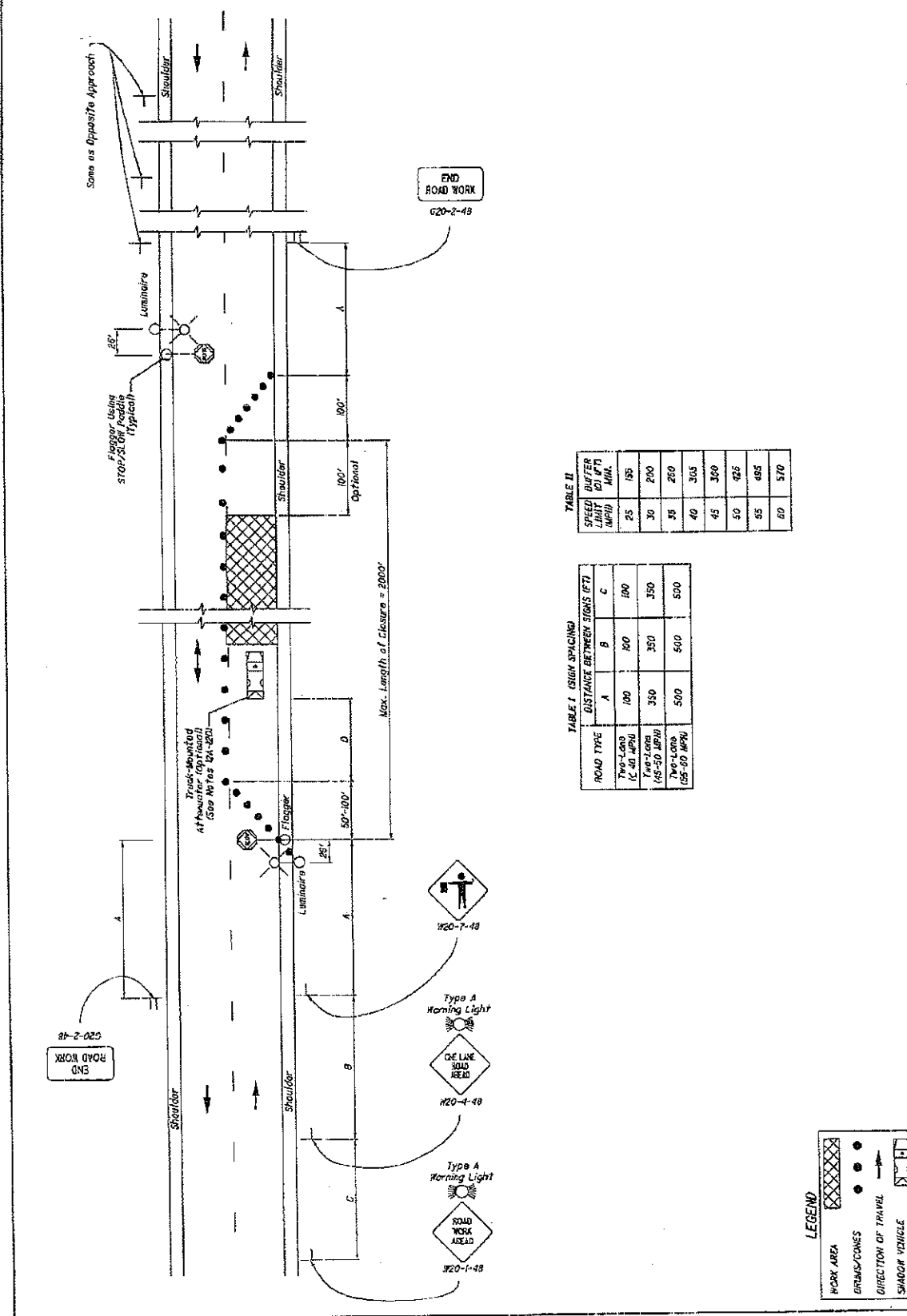


TABLE II

SPEED LIMIT (MPH)	BUFFER (FT)	MIN.
25	150	
30	200	
35	250	
40	300	
45	350	
50	400	
55	450	
60	500	
65	550	

TABLE I (SIGN SPACING)

ROAD TYPE	A	B	C
Two-Lane (20-40 MPH)	100	80	100
Two-Lane (45-50 MPH)	350	350	350
Two-Lane (55-60 MPH)	500	500	500

LEGEND

- WORK AREA
- BRUSH/CONES
- DIRECTION OF TRAVEL
- SHARON VEHICLE

R20-2-48
 END ROAD WORK

R20-7-48
 END ROAD WORK

Type A Warning Light

R20-48
 ONE LANE ROAD AHEAD

Type A Warning Light

R20-48
 ROAD WORK AHEAD

R20-48
 ROAD WORK AHEAD

R20-48
 ROAD WORK AHEAD

NOTES:

FLAGGERS

1. Flaggers, one for each direction, shall be used to control traffic continuously for as long as a one lane operation is in effect. The flaggers shall be able to communicate with each other at all times.

LENGTH OF CLOSURE

2. Several small work areas close together should be closed as one long closure. The minimum length of a closure shall not be more than 2000' long unless approved by the Engineer. The minimum length of a closure shall be 2000'. Only one side of the road shall be closed in any one work zone.

SIGN LOCATION AND SPACING

3a. The minimum spacing between work zone signs is shown in the sign placement section and should not be greater than 1.5 times the distances shown in Table 1.

3b. Sign spacing should be adjusted to avoid conflict with 2000' signs. Where spacing to existing signs shall be 2000' for speeds of 50 mph or less and a minimum of 400' for speeds of 50 mph or greater.

3c. The location of the advance warning signs should be adjusted to provide for adequate sight distances for the existing vertical and horizontal roadway alignment.

ADJUSTMENTS FOR SHORT DISTANCE

4. The location of the flagger station and the advance warning signs at distances other than the existing vertical and horizontal roadway alignment.

BASIC SIGNING

5a. ROAD WORK AHEAD (W20-9) signs shall be provided on entrance ramps or roadways entering the work limits.

5b. END ROAD WORK (W20-1) signs are not required for lane closures of more than 1 day. It is intended that these signs be placed on the machine, on all exit ramps, and on roadways exiting the work limits.

5c. Overlapping of signing for adjacent projects should be avoided where the messages could be confusing. Any Road Work Ahead (W20-9) or End Road Work (W20-1) signs shall be placed on the machine or covered during the period when both projects are active.

SIGNING DETAILS

6a. The Advisory Speed (MUT-11) plaque shall be used when specified in the plan.

6b. 36" warning signs may be used when the approach speed limit is 40 mph or less.

FLASHING WARNING LIGHTS

7. Type A flashing warning lights signs on the ROAD WORK AHEAD (W20-9) signs and on the LARGE CLOSED AHEAD (W20-1) signs are required whenever a night time closure is necessary.

DRUMS / CONES

8a. Drum spacing shall be as follows
 a) Spacing along the closure shall be 400' center-to-center.
 b) Spacing along the approach taper shall be 10' center-to-center.

8b. Cones may be substituted for drums as follows
 a) Cones used for daytime traffic control shall have a minimum height of 28".
 b) Cones used for night-time traffic control shall have a minimum height of 36".
 c) In any case at night shall be prohibited along tapers.

8c. Provisions shall be made to stabilize the cones and drums to prevent them from blowing over.

8d. A minimum of two drums shall be used to obtain the proper shoulder.

EQUIPMENT / MATERIALS STORAGE

8e. No equipment or material shall be located within 50' of the taper or buffer zone.

8f. When no work is being performed, all material and equipment shall be stored as per CMS DIV.03.

AREA ILLUMINATION

9a. Adequate area illumination of each flagger station shall be provided at night. Use of portable flood lighting is preferred. Floodlights shall be located adjacent to each flagger station.

9b. To ensure the adequacy of floodlight placement and the alignment of the floodlights, the contractor shall adjust the lighting in place. Light placement and shielding shall be adjusted to the satisfaction of the Engineer.

INTERSECTION / DRIVEWAY ACCESS

10. Within the length of closures, provision shall be made for driveway access. Driveway access shall be provided and major drive access as necessary to prevent wrong-way movements and to keep vehicles out of any pavement not ready for traffic. The contractor shall
 a) Place across the closed lane, either three drums (cones) or barricades, and/or
 b) Provide an additional flagger at every public street intersection and major driveway.

Drums (cones) placed across the closed lane shall be located 25' beyond the proposed pavement edges of the roadway. Drums (cones) shall be spaced and barricades, see SCD MT-101.00, or MUT-11. For existing STOP signs shall be located as necessary to ensure proper location for the traffic conditions. The method of control shall be subject to the approval of the Engineer.

SHADOW VEHICLE

12a. The shadow vehicle shall be in place and unoccupied whenever workers are in the work area. This vehicle shall be removed from the pavement whenever workers are not in the work area.

12b. The shadow vehicle shall be equipped with a high-intensity yellow rotating, flashing, oscillating, or strobe lights.

12c. This vehicle shall be equipped with a truck-mounted attenuator when called for in the plans.

12d. Other protective devices may be used in lieu of the shadow vehicle shown when approved by the Engineer.

CLIP, SEAL, OPERATIONS

13. For clip seal operations, additional signing shall be incorporated in the advanced warning area.

a) The LOOSE GRAVEL (W20-7) and FRESH PAV (W20-2) signs shall both be used in advance of the clip seal operation.
 b) Repair the LOOSE GRAVEL sign with a 35 mph Advisory Speed sign.
 c) The FRESH PAV and the LOOSE GRAVEL signs shall both be used for signing of side roads intersecting the work area.

NOTES:

BARRICADE USE

1A. Barricades shall be N.W. 350 compliant and shall be erected according to details shown. When the road is closed to traffic, barricades shall be used to effectively close the entire roadway, including the paved or aggregate shoulder.

1B. Barricades along adjacent lanes may be offset from each other as shown, with drums used to align the resulting gap. Maximum drum spacing shall be 5'.

BARRICADE REFLECTORIZATION AND COLOR

2A. In construction or maintenance areas, all rails of the barricades shall be reflectorized with orange and white retroreflectorized Type B flashing in 6" wide areas. The drums shall be reflectorized with orange and white retroreflectorized Type B flashing in 6" wide areas. The road of an angle of 45 degrees. All three rails of the barricades shall be striped on both sides. Logo and text shall be either all white or may display the natural color of the material used.

2B. Barricades used in permanent or semi-permanent application shall differ only in that they shall use red and white stripes.

SIGNS

3A. Where the road is closed to traffic by the erection of barricades, ROAD CLOSED (R11-2) signs shall be mounted laterally as shown.

3B. The advance warning signs shown on this drawing are intended for use when the traveled way is brought to an end with no direction given to traffic. Where traffic has been diverted from the permanent roadway or just prior to the permanent roadway, the signs shall be provided as shown in Standard Construction Drawing M-55,70 or Ohio Manual of Uniform Traffic Control Devices Figure B-7 as appropriate.

3C. Advance warning signs approaching a lane closure, as shown on these plans, shall consist of two ROAD CLOSED AHEAD (R20-3) signs with distance placards placed about 500' and 1000' from the closure, and a ROAD WORK AHEAD (R20-4) sign placed about 1500' from the closure. The signs shall be placed on both sides of the roadway, for multi-lane divided highways or when required by the plans.

FLASHING WARNING LIGHTS

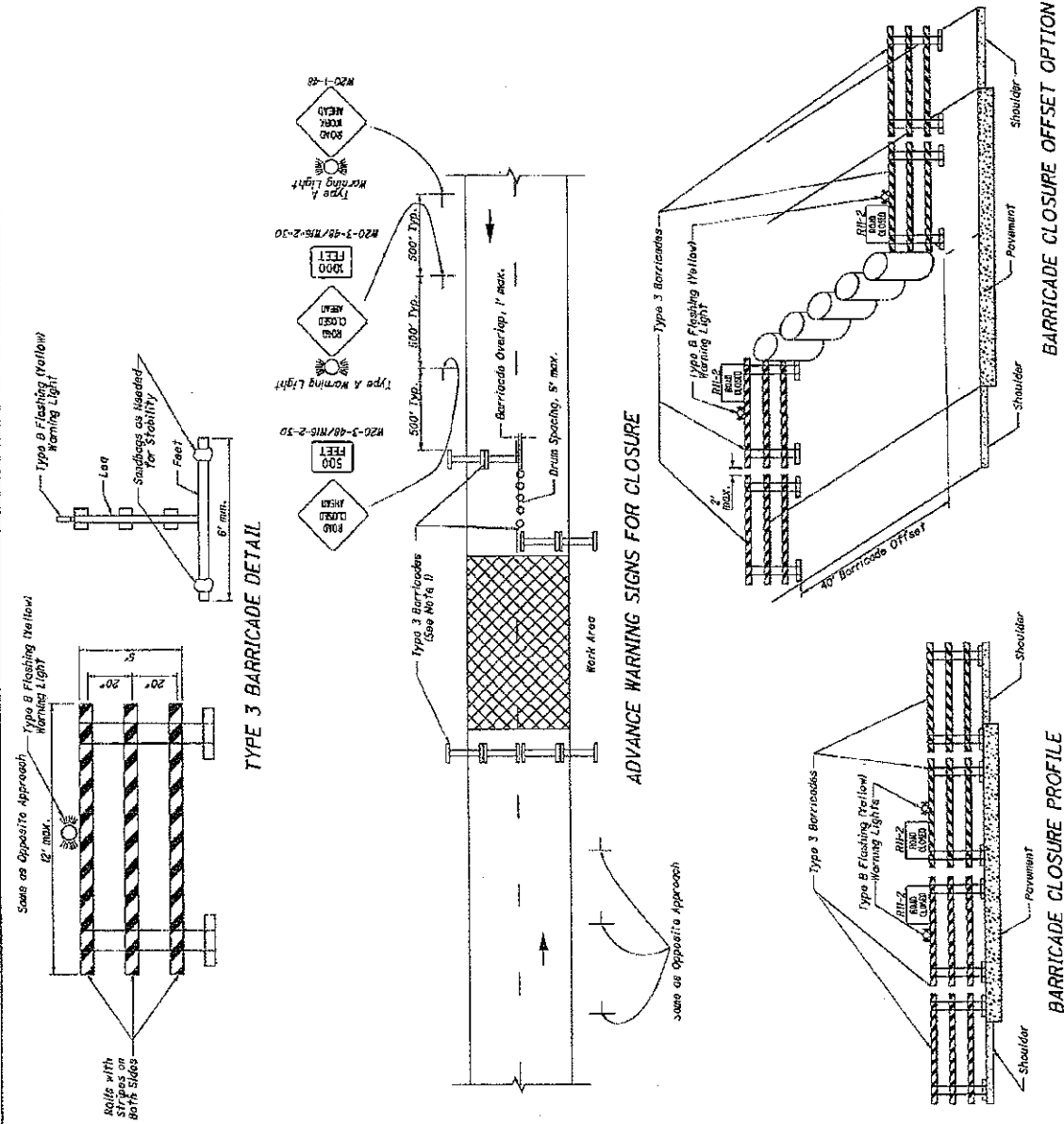
4A. Type A flashing warning light to be required on the ROAD WORK AHEAD (R20-4) sign and on the TRIP (R10-1) CLOSED AHEAD (R20-3) sign.

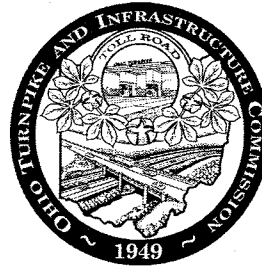
4B. Type B flashing warning lights shall be provided on Type 3 barricades, and lighted drums shall be provided on Type 3 drums. The drums shall be provided on all drums under normal atmospheric conditions. The light shall be in operation at all times during the period the highway is closed.

OPERATION ON 2-LANE, 2-WAY ROADWAYS

5A. Where the barricade runs across the entire roadway without longitudinally offsetting sections, the Contractor will normally open only the left side of the barricade as necessary to allow the passage of the vehicle to enter. The Contractor shall normally be opened of the same time. The Contractor shall assign an employee to ensure that the barricade is closed at the end of each workday.

5B. Where the sections of the barricade are offset from each other with drums provided to close the gap (see note 1B), the Contractor may move the drums as necessary to allow the construction vehicle to enter, and then shall immediately replace the drums. The Contractor shall assign an employee to ensure that the drums are in place at the end of each workday.





OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

THE JAMES W. SHOCKNESSY OHIO TURNPIKE

CONTRACT NO. 43-14-03

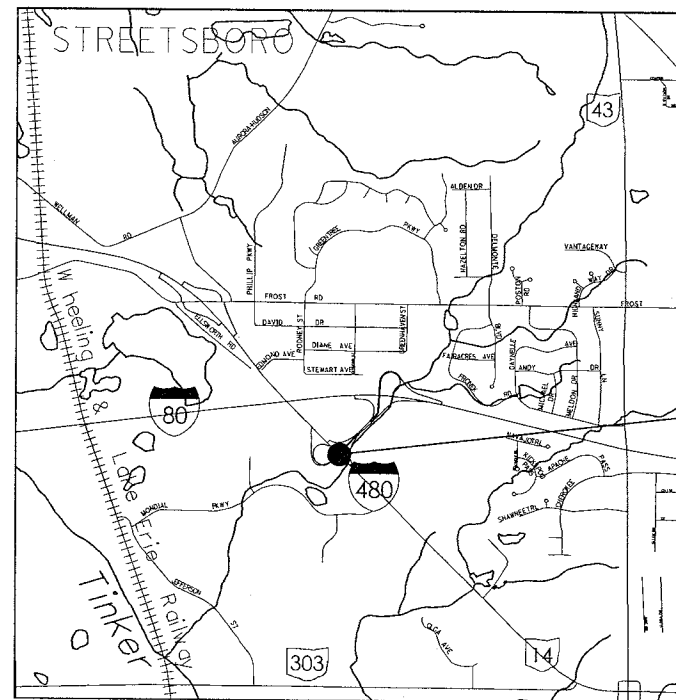
BRIDGE REPAIRS

OHIO TURNPIKE RAMP OVER S.R. 14 - M.P. 187.0

PORTAGE COUNTY, OHIO

INDEX OF SHEETS

TITLE SHEET	1
STRUCTURE GENERAL NOTES AND QUANTITIES	2
PARTIAL FRAMING PLANS AND DETAILS	3
BEAM REPAIR DETAILS	4



PROJECT LOCATION
M.P. 187.0

LATITUDE: N 41° 15' 11" LONGITUDE: W 81° 22' 03"

PLANS PREPARED BY:

URS

Akron Cleveland Columbus
564 White Pond Drive, Akron, Ohio 44320-1100
PHONE: (330) 836-9111, FAX: 330-836-9115

Paul J. Wischt
REGISTERED PROFESSIONAL ENGINEER
DATE 2/5/14

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION STANDARD CONSTRUCTION DRAWINGS (OTIC SCD)

OHIO DEPARTMENT OF TRANSPORTATION STANDARD CONSTRUCTION DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS (ODOT SCD & ODOT SS)

ODOT SCD		ODOT SS
MT-95.30	7-19-13	849 1-18-13
MT-95.50	7-19-13	
MT-101.60	7-19-13	

2 ADDENDUM 2 P.J.W 3/11/14

2 WORKING DAYS BEFORE YOU DIG
Call...800-362-2764 (Toll Free)
OHIO UTILITIES PROTECTION SERVICE

OHIO TURNPIKE DIVISION SUPERINTENDENT
(419) 862-2922
(ROADWAY LIGHTING CABLE)

APPROVED FOR THE OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION BY

Anthony D. Yant
CHIEF ENGINEER

2-6-14
DATE

STRUCTURE GENERAL NOTES

BRIDGE STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS REFERENCE SHALL BE MADE TO THE ODOT STANDARD DRAWINGS:

MT-95.30 DATED 7-19-13

AND ODOT SUPPLEMENTAL SPECIFICATIONS: 849 DATED 1-18-13

AND TO OTC STANDARD DRAWINGS: NONE

CONSTRUCTION SPECIFICATIONS

THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIALS SPECIFICATIONS DATED JANUARY, 2010, AND THE SPECIAL PROVISIONS CONTAINED IN THE CONTRACT DOCUMENTS SHALL GOVERN THIS PROJECT.

DESIGN SPECIFICATIONS:

THIS STRUCTURE CONFORMS TO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES" ADOPTED BY THE AMERICAN ASSOCIATION FOR STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 2002, AND THE ODOT BRIDGE DESIGN MANUAL, 2004.

EXISTING STRUCTURE VERIFICATION

THE ORIGINAL CONSTRUCTION PLANS OR THE DECK REPLACEMENT DESIGN PLANS MAY BE EXAMINED BY PROSPECTIVE BIDDERS IN THE OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION OFFICE LOCATED AT 682 PROSPECT STREET, BEREA, OHIO 44017. TELEPHONE: (440) 234-2081.

EXISTING STRUCTURE VERIFICATION

DETAILS, DIMENSIONS, AND ELEVATIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND/OR FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE.

CONTRACT BID PRICES SHALL BE BASED UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE BY THE CONTRACTOR. HOWEVER, ALL PROJECT WORK SHALL BE BASED UPON ACTUAL DETAILS, DIMENSIONS, ELEVATIONS, AND SKEW ANGLES WHICH SHOULD BE FIELD VERIFIED BY THE CONTRACTOR. THE STRUCTURAL STEEL SHALL NOT BE FABRICATED UNTIL THE ACTUAL DETAILS, DIMENSIONS, ELEVATIONS, AND SKEW ANGLES HAVE BEEN FIELD VERIFIED BY THE CONTRACTOR.

ITEM 614 - MAINTAINING TRAFFIC, AS PER PLAN (ALL BRIDGES)

THIS ITEM SHALL CONSIST OF MAINTAINING TRAFFIC IN ACCORDANCE WITH ODOT OFFICE OF TRAFFIC ENGINEERING STANDARD DRAWING (MT-95.30), THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (OMUTCD), THE CONSTRUCTION AND MATERIAL SPECIFICATIONS (CMS) AND THE FOLLOWING:

1. CONTRACTOR WILL BE RESPONSIBLE FOR ERECTING AND MAINTAINING ALL TRAFFIC CONTROL REQUIRED TO PERFORM THE WORK.
2. THE OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION SHALL OBTAIN A PERMIT FROM THE OHIO DEPARTMENT OF TRANSPORTATION (ODOT) FOR THE CONTRACTOR TO WORK IN THE STATE ROUTE 14 RIGHT OF WAY. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF THE PERMIT AND THE ODOT STANDARD CONSTRUCTION DRAWINGS. THE CONTRACTOR SHALL PROVIDE 10 DAYS ADVANCE NOTICE PRIOR TO COMMENCEMENT OF WORK AT THE STATE ROUTE 14 BRIDGE. THE PERMIT APPLICATION IS INCLUDED IN THE CONTRACT DOCUMENTS.

3. ONLY ONE LANE SHALL BE CLOSED AT ANY TIME.

4. A TRUCK-MOUNTED ATTENUATOR (TMA) SHALL BE USED TO PROTECT WORKERS ON S.R. 14.

5. THE CONTRACTOR SHALL INFORM THE LOCAL MUNICIPALITIES, AND THE OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION TEN (10) DAYS PRIOR TO BEGINNING WORK.

PAYMENT FOR ALL LABOR, EQUIPMENT AND MATERIALS TO PERFORM THIS WORK SHALL BE INCLUDED IN THE LUMP SUM CONTRACT BID PRICE FOR ITEM 614, MAINTAINING TRAFFIC, AS PER PLAN.

ABBREVIATIONS:

CONN. - CONNECTION
 PL - PLATE
 TYP. - TYPICAL
 BOT. - BOTTOM
 EXIST. - EXISTING
 INT. - INTERIOR
 SPA. - SPACES

ITEM 513 - STRUCTURAL STEEL MISC., PENCIL ABRASIVE BLASTING, GRINDING AND NDT, AS PER PLAN:

THIS WORK CONSISTS OF THE FOLLOWING SEQUENCE OF OPERATIONS PERFORMED AT THE AREAS AS DESIGNATED IN THE PLANS AND AS DIRECTED BY THE ENGINEER TO IDENTIFY EXTENTS OF ANY CRACKING OF STRUCTURAL STEEL.

1. CLEAN THE DESIGNATED AREA BY PENCIL ABRASIVE BLASTING THE PAINT AND/OR RUST FROM THE STEEL SURFACE. PENCIL ABRASIVE BLASTING SHALL CONFORM TO THE FOLLOWING:

CLEAN THE DESIGNATED NON-DESTRUCTIVE TESTING (NDT) AREAS OF ALL PAINT, RUST AND FOREIGN MATERIAL BY ABRASIVE BLASTING TO A SURFACE QUALITY EQUAL TO SSPC-SP10 PREPARATION GRADE SA 2 ACCORDING TO AND AS SHOWN IN SSPC-VIS 1-89. SINCE THE INTENT OF THE PENCIL ABRASIVE BLASTING IS TO ENHANCE THE VISUAL AND NDT CRACK DETECTION TECHNIQUES, A GENTLE ABRASIVE BLAST SHALL BE USED SUCH THAT THE SURFACE IS NOT PEENED OR OTHERWISE COLD WORKED. PERFORM THE ABRASIVE BLASTING USING A MAXIMUM COMPRESSED AIR PRESSURE OF 100 PSI, A HOSE NOZZLE DIAMETER OF 1/4" (+/- 1/16"), AND A GRADE 30/60 COAL SLAG ABRASIVE OR EQUIVALENT. DO NOT USE BLASTING ABRASIVES CONTAINING MORE THAN ONE-PERCENT FREE SILICA. BLASTERS USED FOR SURFACE PREPARATION FOR STRUCTURAL STEEL COATING CAN NOT BE USED FOR PENCIL BLASTING. AFTER THE ABRASIVE BLASTING IS COMPLETE, AIR BLOW THE AREA CLEAN. THE CONTRACTOR SHALL DEMONSTRATE TO THE ENGINEER THAT PENCIL ABRASIVE BLASTING CAN SATISFACTORILY BE PERFORMED ACCORDING TO THESE SPECIFICATIONS PRIOR TO THE START OF THE WORK.

CLEANED AREAS SHALL BE AT LEAST 3 INCHES WIDE ALONG EACH SIDE OF A SUSPECTED CRACK LOCATION UNLESS OTHERWISE SHOWN IN THE PLANS. ALL PAINT REMOVAL SHALL BE IN ACCORDANCE WITH ODOT CMS ITEM 514.

2. THE ENGINEER, ACCOMPANIED BY THE CONTRACTOR, SHALL CAREFULLY VISUALLY INSPECT THE CLEANED AREA. GRINDING MAY BE DIRECTED BY THE ENGINEER TO ENHANCE THE INVESTIGATION FOR CRACK PRESENCE. THE GRINDING MOTION SHALL BE PARALLEL TO THE FLANGE EDGE.
3. NON-DESTRUCTIVELY TEST (NDT) THE AREA USING MAGNETIC PARTICLE EXAMINATION AND/OR DYE PENETRATION SO THAT THE ENGINEER MAY FURTHER INSPECT THE CRACKS.
4. ALL CRACKS AND/OR CRACK TIPS THAT ARE ACCESSIBLE ARE TO BE REMOVED AS SHOWN IN THE PLANS. ANY CRACKS INACCESSIBLE TO DRILLING ARE TO BE REMOVED AS SHOWN IN THE PLANS BY CAREFUL GRINDING, OR BY CAREFULLY ENLARGING THE DRILLED HOLES BY GRINDING.
5. PERFORM STEPS 1 THRU 4 ON THE OPPOSITE SIDE OF THE FLANGE AT THE SUSPECTED CRACK LOCATION.

ALL LABOR, MATERIALS, AND EQUIPMENT TO PERFORM THIS WORK SHALL BE INCLUDED FOR PAYMENT IN THE UNIT PRICE BID FOR ITEM 513 - STRUCTURAL STEEL MISC., PENCIL ABRASIVE BLASTING, GRINDING, AND NDT, AS PER PLAN.

ITEM 513 - STRUCTURAL STEEL MISC., DRILLING STRUCTURAL STEEL, GRINDING AND NDT, AS PER PLAN:

THIS WORK CONSISTS OF DRILLING CRACKS AND ENDS OF CRACKS, GRINDING TO ENLARGE DRILLED HOLES, AND NON-DESTRUCTIVE TESTING AS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER TO ARREST CRACKS FOUND BY PENCIL ABRASIVE BLASTING. CHIEF ENGINEER APPROVAL MUST BE OBTAINED BEFORE DRILLING ANY HOLES IN THE FLANGES UNDER THIS ITEM.

DRILL HOLES TO REMOVE THE ENTIRE CRACKS OR THE APPARENT ENDS OF THE CRACK REVEALED BY THE INITIAL NDT AND/OR VISUAL INSPECTION. GRIND SMOOTH THE EXPOSED CIRCUMFERENCE OF EACH DRILLED HOLE AND CAREFULLY INSPECT FOR CRACKS USING MAGNETIC PARTICLE EXAMINATION AND/OR DYE PENETRATION. CONTINUE DRILLING, GRINDING, AND TESTING UNTIL ALL CRACK ENDS ARE REMOVED. WHEN NO CRACKS ARE DETECTED AT A LOCATION, NO HOLES SHALL BE DRILLED UNDER THIS ITEM.

SINCE ANY OF THESE CRACKS COULD PROPAGATE INTO A TENSION ZONE, REMOVING THEIR ENDS IS IMPERATIVE. CRACKS UP TO 1/2" LONG, AND DEFECTS UP TO 1/2" IN DIAMETER, SHALL BE COMPLETELY REMOVED BY A SINGLE 1" DIAMETER HOLE WHEN PRACTICAL. THE 1" DIAMETER HOLE SHALL BE DRILLED SUCH THAT THERE IS 1/4" CLEAR AT EACH END OF THE CRACK OR DEFECT. ENDS OF CRACKS LONGER THAN 1/2", AND DEFECTS LARGER THAN 1/2" IN DIAMETER, SHALL BE DRILLED AT THE END OF THE CRACK OR DEFECT WITH 1" DIAMETER DRILL BITS. HOLES SHALL BE CAREFULLY EXAMINED FOR CRACKS IN THE PLANE OF THE PLATE. 1 1/2" OR 2" DIAMETER HOLES MAY BE DRILLED TO COMPLETELY REMOVE A LARGER CRACK OR DEFECT WHERE THE PROXIMITY OF THE CRACK END TO ADJACENT STEEL PRECLUDES DRILLING 1" DIAMETER HOLES.

THE LOCATION OF ALL HOLES SHALL BE DETERMINED BY AND DRILLED UNDER THE DIRECTION OF THE ENGINEER.

ALL LABOR, MATERIALS, AND EQUIPMENT TO PERFORM THIS WORK SHALL BE INCLUDED FOR PAYMENT IN THE UNIT PRICE BID FOR ITEM 513 - STRUCTURAL STEEL MISC., DRILLING STRUCTURAL STEEL, GRINDING, AND NDT, AS PER PLAN.



GENERAL SUMMARY			
ITEM	TOTAL	UNIT	DESCRIPTION
513	3	EACH	STRUCTURAL STEEL MISC., PENCIL ABRASIVE BLASTING, GRINDING AND NDT, AS PER PLAN *
513	3	EACH	STRUCTURAL STEEL MISC., DRILLING STRUCTURAL STEEL, GRINDING AND NDT, AS PER PLAN *
513	LUMP	LUMP	STRUCTURAL STEEL MEMBERS, LEVEL 1 (OR LEVEL UF) AS PER PLAN
614	LUMP	LUMP	MAINTAINING TRAFFIC, AS PER PLAN 2
624	LUMP	LUMP	MOBILIZATION
849	LUMP	LUMP	DAMAGE ASSESSMENT
849	LUMP	LUMP	SURFACE PREPARATION
849	1	HOURS	REPAIRING DAMAGED MEMBERS BY GRINDING
849	LUMP	LUMP	STRAIGHTENING DAMAGED MEMBERS
IB. ART. 6	LUMP	LUMP	PREMIUM FOR CONTRACT PERFORMANCE BOND AND PAYMENT BOND

* A CONTINGENCY OF 3 EACH HAS BEEN INCLUDED IN THE QUANTITIES FOR ITEM 513 - STRUCTURAL STEEL MISC., PENCIL ABRASIVE BLASTING, GRINDING, AND NDT, AS PER PLAN AND ITEM 513 - STRUCTURAL STEEL MISC., DRILLING STRUCTURAL STEEL, GRINDING, AND NDT, AS PER PLAN AND ARE TO BE PERFORMED AS DIRECTED BY THE ENGINEER.

NO.	REVISIONS	BY	DATE
2	ADDENDUM 2	PJW	3/11/14

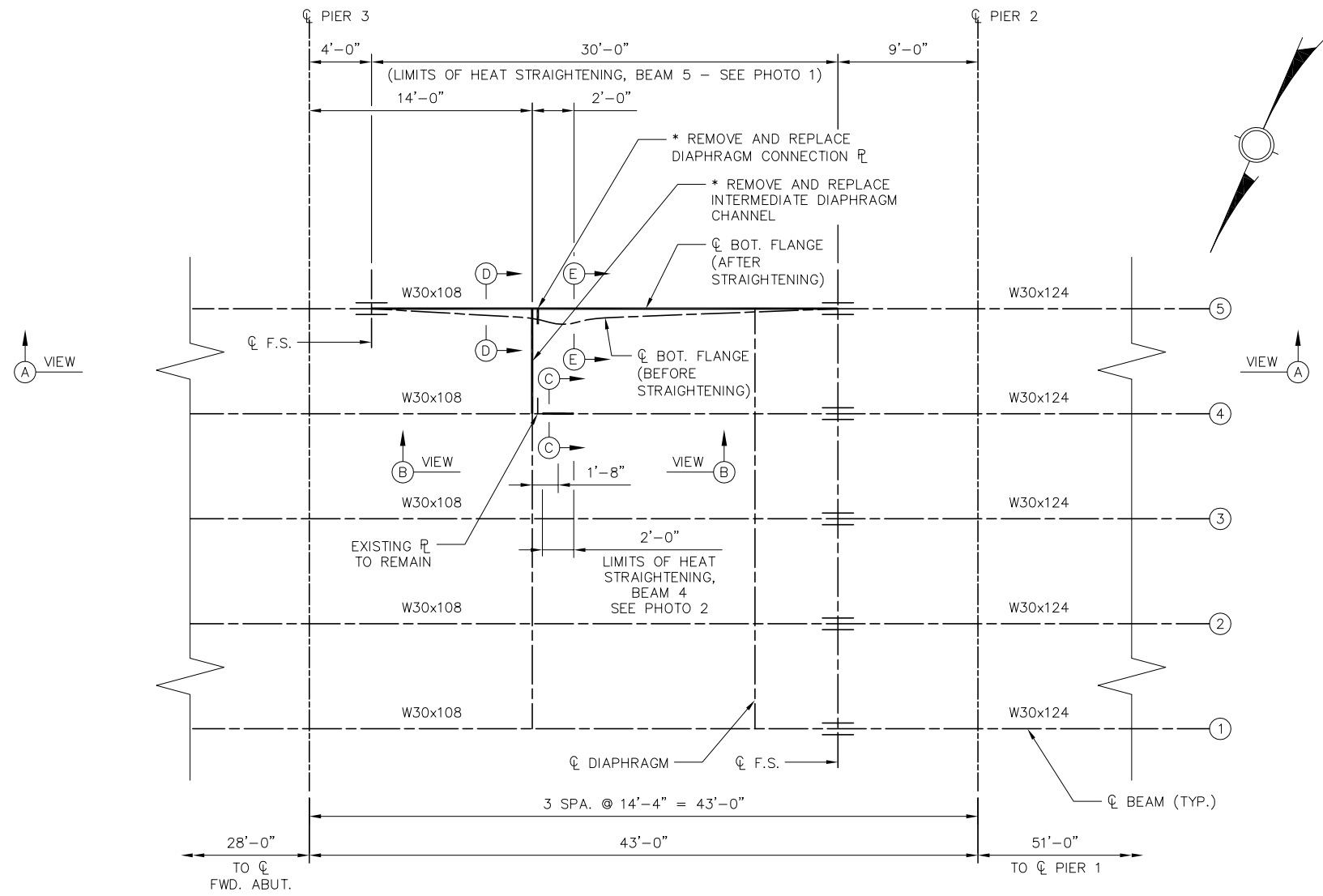
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

OHIO TURNPIKE RAMP
OVER S.R. 14 - MP 187.0
GENERAL NOTES AND QUANTITIES

URS Akron Cleveland Columbus
564 White Pond Drive, Akron, Ohio 44320-1100
PHONE: (330) 836-9111, FAX: 330-836-9115

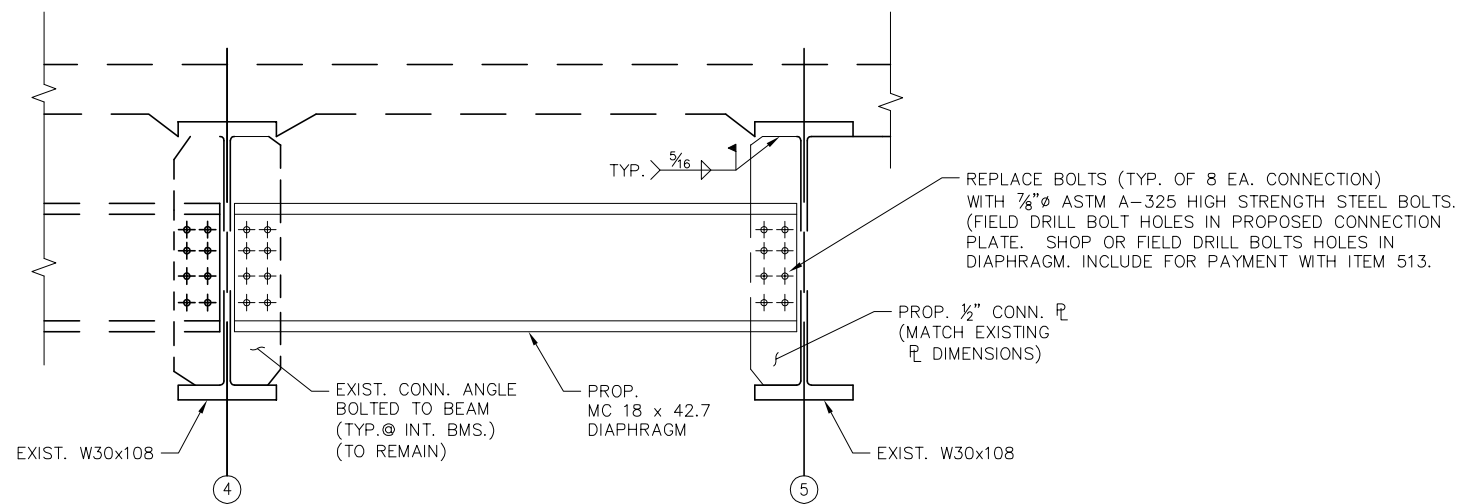
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* = INCLUDE FOR PAYMENT WITH ITEM 513-STRUCTURAL STEEL MEMBERS, LEVEL 1 (OR LEVEL UP) AS PER PLAN

PARTIAL FRAMING PLAN



DIAPHRAGM REPLACEMENT DETAIL

NOTES:

- FOR BEAM ELEVATIONS AND SECTIONS, SEE SHEET 4 OF 4.
- STEEL TYPE:
BEAMS 1-5 ASTM A7 STEEL $F_y = 33,000$ PSI,
ALLOWABLE JACKING STRESS = 16,500 PSI



PHOTO 1 - LOOKING WEST AT BEAM 5



PHOTO 2 - LOOKING SOUTH AT BEAM 4

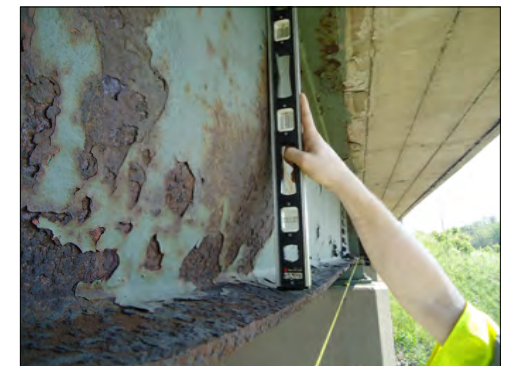


PHOTO 3 - LOOKING EAST AT BEAM 5

NO.	REVISIONS	BY	DATE
2	ADDENDUM 2	PJW	3/11/14

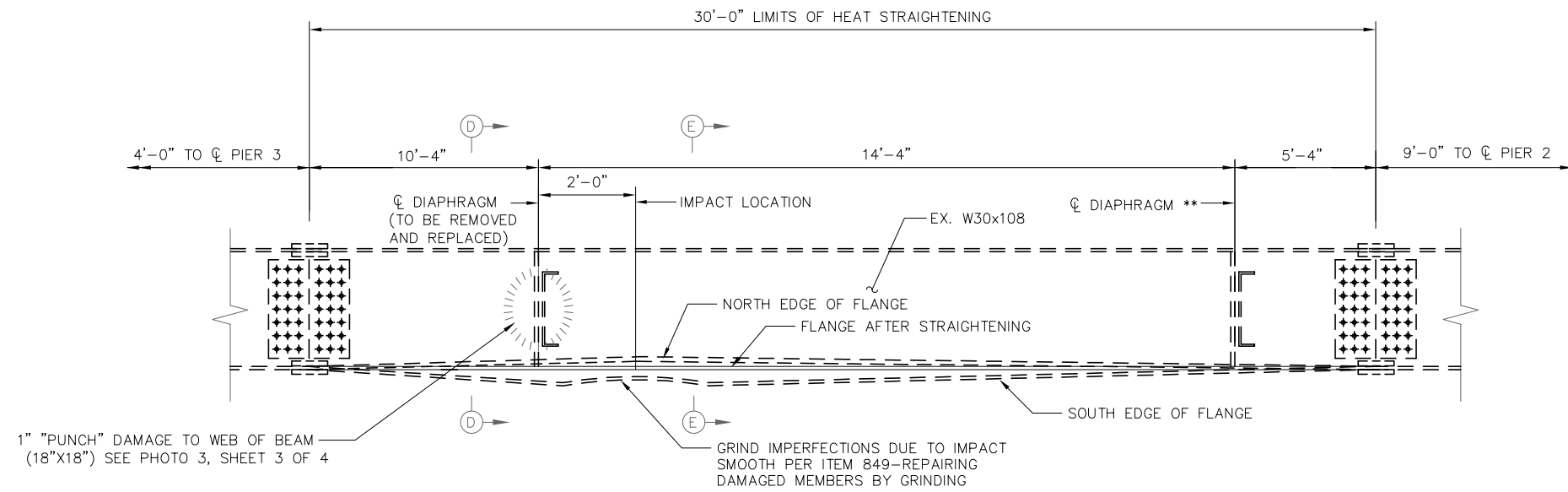
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

OHIO TURNPIKE RAMP OVER S.R. 14 - MP 187.0
PARTIAL FRAMING PLAN & DETAILS

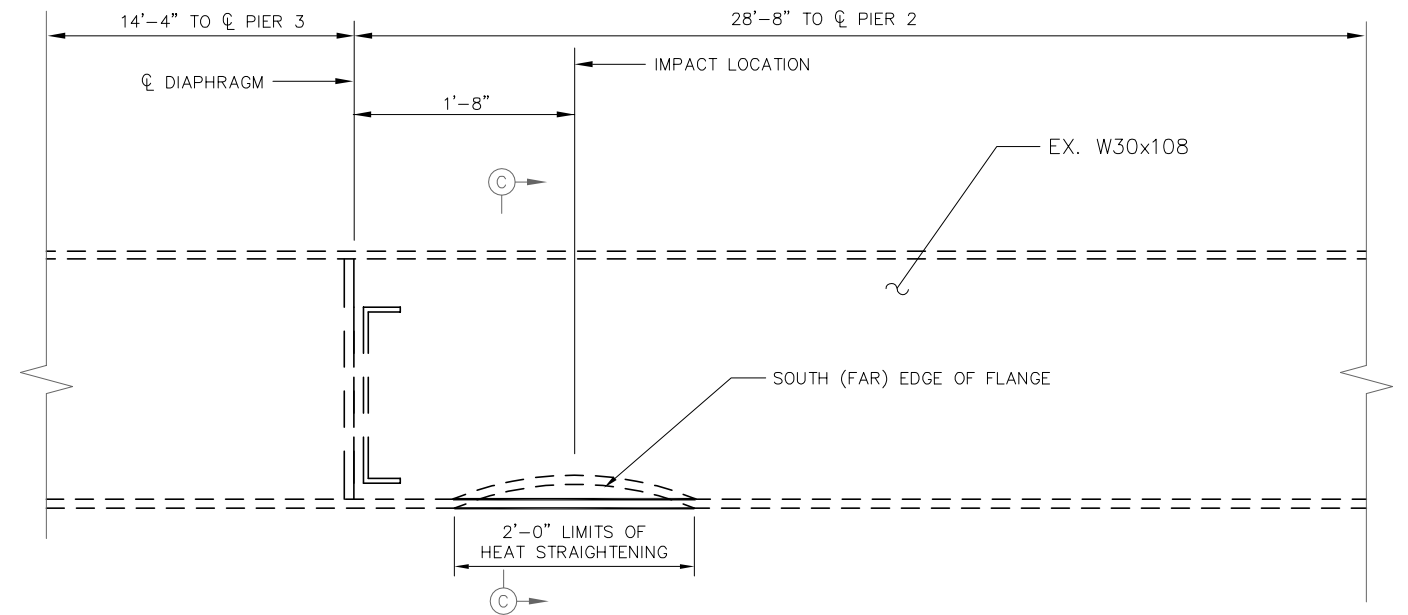
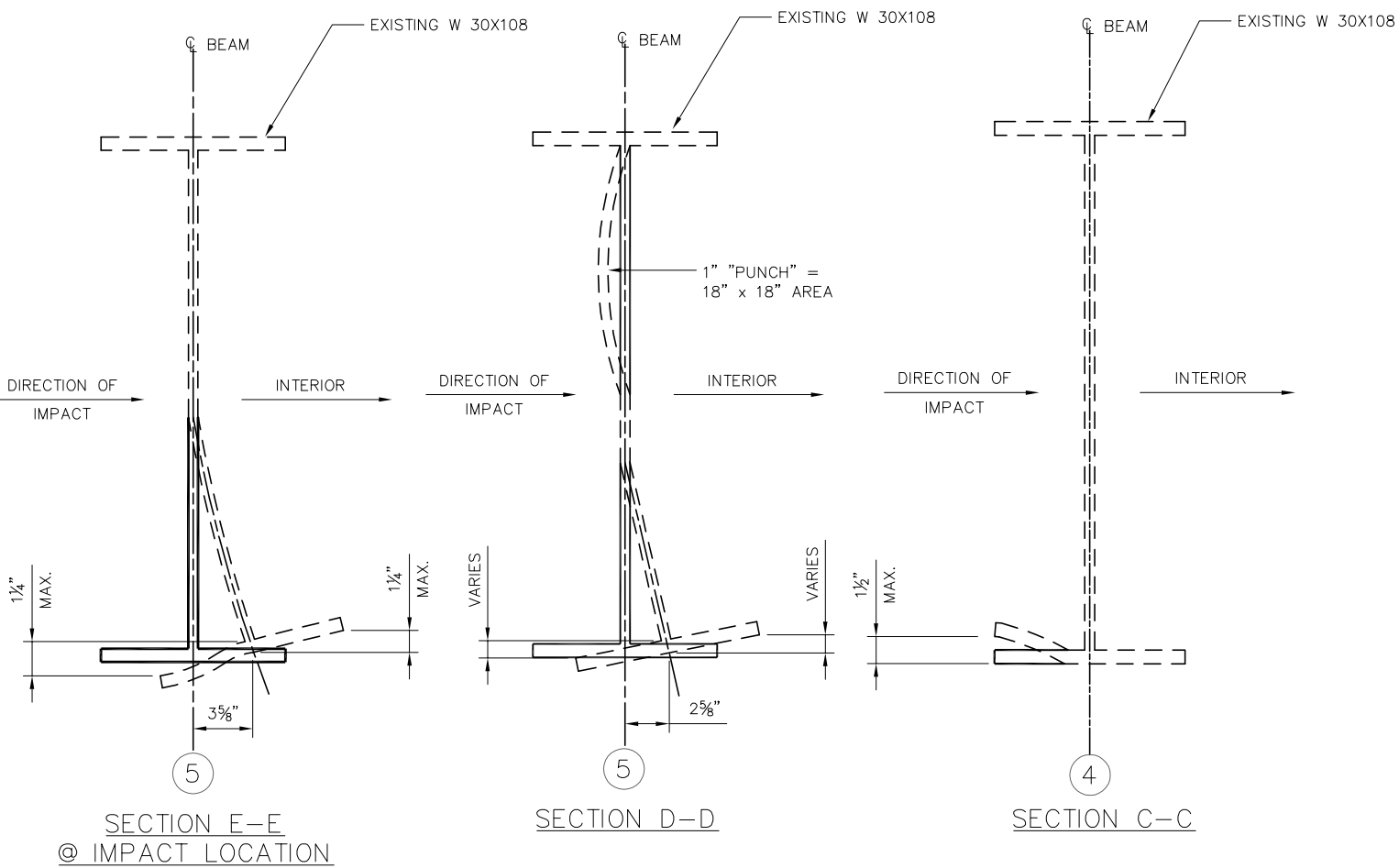
URS Akron Cleveland Columbus
564 White Pond Drive, Akron, Ohio 44320-1100
PHONE: (330) 836-9111, FAX: 330-836-9115

DESIGNED: DEB	CHECKED: PJW	DATE: 6-20-13
DRAWN: CMA	IN CHARGE: TES	SCALE: AS SHOWN

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VIEW A-A PARTIAL BEAM ELEVATION - BEAM 5



VIEW B-B PARTIAL BEAM ELEVATION - BEAM 4

NOTE:
FOR PARTIAL FRAMING PLAN AND ADDITIONAL NOTES
AND DETAILS SEE SHEET 3 OF 4

** - CONTRACTOR MAY TEMPORARILY REMOVE THE
DIAPHRAGMS DURING HEAT STRAIGHTENING OPERATIONS.
HOWEVER, WHEN REINSTALLING THE DIAPHRAGMS, THE
CONTRACTOR SHALL USE NEW ASTM A325 GALVANIZED
BOLTS IN ACCORDANCE WITH ITEM 513.20. COSTS FOR
NEW BOLTS AND ALL ASSOCIATED LABOR TO REMOVE
AND SUBSEQUENTLY REINSTALL DIAPHRAGMS, SHALL BE
INCIDENTAL TO ITEM 513-STRUCTURAL STEEL MEMBERS,
LEVEL 1 (OR LEVEL UP,) AS PER PLAN.

NO.	REVISIONS	BY	DATE
2	ADDENDUM 2	PJW	3/11/14

**OHIO TURNPIKE AND
INFRASTRUCTURE COMMISSION**

OHIO TURNPIKE RAMP
OVER S.R. 14 - MP 187.0
BEAM 5 REPAIR DETAILS

URS Akron Cleveland Columbus
564 White Pond Drive, Akron, Ohio 44320-1100
PHONE: (330) 836-9111, FAX: 330-836-9115

DESIGNED: DEB	CHECKED: PJW	DATE: 6-20-13
DRAWN: CMA	IN CHARGE: TES	SCALE: AS SHOWN

CONTRACT 43-14-03 SHEET 4 OF 4