# OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

#### **ADDENDUM NO. 3**

PROJECT NO. 43-17-05
BRIDGE DECK REPAIR AND REHABILITATION
BOSTON MILLS ROAD OVER OHIO TURNPIKE M.P. 178.0,
OLDE EIGHT ROAD OVER OHIO TURNPIKE M.P. 179.5,
NICHOLS ROAD OVER OHIO TURNPIKE M.P. 199.2,
SUMMIT AND PORTAGE COUNTIES, OHIO

EXTENDED OPENING DATE: 2:00 P.M. (EASTERN TIME), JANUARY 25, 2017

ALL BIDS MUST BE ELECTRONICALLY SUBMITTED THROUGH BID EXPRESS

# **ATTENTION OF BIDDERS IS DIRECTED TO:**

QUESTIONS AND ANSWERS THROUGH 10:00 AM ON JANUARY 20, 2017
-ANDMODIFICATION TO PLAN SHEETS 2, 8, 12, 18, 32, 39 AND 44
-ANDCHANGE TO THE BID FORM SCHEDULE OF ITEMS

Issued by the Ohio Turnpike and Infrastructure Commission on January 20, 2017. Issuance authorized by Anthony D. Yacobucci, Chief Engineer, and Mark R. Musson, Director of Contracts Administration.

Anthony D. Yacobucci

Date

Mark R. Musson

Data

# OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION ADDENDUM NO. 3 PROJECT NO. 43-17-05

# QUESTIONS AND ANSWERS THROUGH 10:00AM ON JANUARY 20, 2017

- Q#5. At MP 179.5, sheet 26/49, what is the estimated quantity of Item 601 slope protection, what is the estimated quantity, and what pay item reference # will this be paid under. Also, what materials will be considered acceptable.
- A#5 There is a new pay item added as Ref. No. 43A, Item No. SP 601, Concrete Slope Protection, quantity of 90 SQ YDS. Plan Sheet 2 of 49 has been revised.
- Q#6 Plan sheet 37/49 shows a scupper drain extension at both sides of the rear end of Arch, for a total of (4). However, bid reference item #38 has a quantity of 6 each. Please clarify.
- A#6 Plan Sheet No. 37 of 49 shows a scupper drain extension at both sides (Left and Right) of the rear end of the arch for a total of two (2). Bid Ref. No. 38 is for Scupper Salvaged or Replaced, quantity of six (6) as shown on Plan Sheet No. 34 of 49. The quantity for Ref. No. 38 which was revised in Addendum 1 to four (4) is reverted back to six (6) through this Addendum No. 3. Note 2 on Plan Sheet 37 of 49 indicates the scupper drain extension work shall be included for payment WITH Item 518 Scupper Salvaged or Replaced.
- Q#8 The four (4) existing catch basins at Nichols Road are called out to be "reconstructed to grade" on plan sheet 39/49. The General Summary on plan sheet 2/49 indicates that the four (4) catch basins at Nichols Road are to be removed by bid item #8 and replaced with new catch basins by bid item #24. Also, there is a general note on plan sheet 8/49 "SP604 Catch Basin Reconstructed to Grade" that describes the work involved with the reconstruction activity. It is unclear as to what the OTIC intends to do with the four (4) catch basins at Nichols Road. Please clarify if these catch basins are to be removed and replaced according to the General Summary or reconstructed and adjusted to grade according to plan sheets 8 & 39/49 and adjust the existing bid item quantity and add the new bid items if reconstruction is the desired work.
- A#8 All catch basins at Nichols Road are to be removed and replaced. Plan Sheets 8 and 39 of 49 are revised accordingly through this Addendum No. 3.
- Q#11 The existing bridge sections for Boston Mills (sheet 12/49) and Nichols (sheet 40/49) do not depict existing deck counterweights. The existing bridge plans for Boston Mills shows counterweights while Nichols does not. Please confirm if there are existing counterweights at any of the structures.
- A#11 There are existing counterweights at Boston Mills, as indicated on the existing plans and will be replaced at Boston Mills. There are no existing counterweights at Nichols Road, but this project will add the counterweights at Nichols Road.

- Q#13 Plan Sheet 44/49 it calls out the shear studs as 7/8" x 6" in the elevation view and then as 7/8" x 5" in the plan view. Can the correct stud length please be provided?
- A#13 Six (6) inch studs are to be provided, and Plan Sheet 44 of 49 is revised accordingly through this Addendum No. 3.
- Q#14 Can the commission please clarify the scupper and related work to be paid for under Bid Item #38? The original quantity, before it was changed by Addendum #1, was 6ea which corresponded to the number of scuppers shown on Sht 34/49 to be salvaged or replaced. Sht 37/49 only shows two (2) scupper drain extensions, one (1) on the southwest corner of the bridge and one (1) on the southeast corner of the bridge. Plan Note 2 on Sht 34 clearly states that the bench cleaning and scupper drain extensions are only to be performed on the rear end of the arch.
- A#14 See the response to Q#6.
- Q#15 The Olde Eight bridge plans indicate removal of the existing approach slab, however the Boston Mills plans do not indicate that the existing slabs are being removed. There is quantity for new slabs on Boston Mills. Please verify that the approach slabs at both locations are being removed and replaced.
- A#15 Yes, Plan Sheets 2 and 18 of 49 have been revised to clarify that the Boston Mills Road approach slabs are to be removed and replaced.
- Q#16 Some previous projects have included a bid item for Approach Slab Removal.
  Where should this work be included in the current bid?
- A#16 This work is to be included for payment in Item SP 202 Portions of Structure Removed.
- Q#17 Addendum #2 did not include a location to acknowledge the addendum. Will it be acceptable to provide the typical acknowledgment information on the addendum page?
- A#18 Yes, Addendum No. 2 did not provide any substantive revisions to the contract documents. Bidders may submit responsive bids any time prior to the extended opening date without providing an acknowledgement of Addendum No. 2.
- Q#19 The General Summary lists Item 202 Pavement Removed and Item 301 Asphalt Concrete Base, PG64-22 for MP178.0 and MP 199.2. We cannot find locations for this work shown in the plans. What is the anticipated use of these items?
- A#19 The anticipated activities compensated under these pay items are removing and replacing/repairing the roadway pavement around the catch basins replaced at the Boston Mills Road Bridge and the Nichols Road Bridge.

Adder	ndum No. 3 to Contract 43-1	7-05:
	(Firm Name)	
	(Signature)	
	(Printed Name)	
Date:		

TOTAL	UNIT	DESCRIPTION	GENERAL	MP 178.0	MP 179.5	MP 199.2
		GENERAL				
LUMP	LUMP	PREMIUM FOR CONTRACT PERFORMANCE BOND AND PAYMENT BOND	LUMP			
LUMP	LUMP	MAINTAINING TRAFFIC	LUMP			
LUMP	LUMP	FILED OFFICE	LUMP			
LUMP	LUMP	CONSTRUCTION LAYOUT SURVEY	LUMP			
LUMP	LUMP	MOBILIZATION	LUMP			
		ROADWAY				
55	FOOT	PIPE REMOVED, 24" AND UNDER		35		20
600	FOOT	GUARDRAIL REMOVED		150	150	300
6	EACH	CATCH BASIN REMOVED		2		4
27	SQ.YD.	PAVEMENT REMOVED		20		7
518	SQ.YD.	PAVEMENT PLANING, ASPHALT CONCRETE		166	158	194
12	CU.YD.	ASPHALT CONCRETE BASE, PG64-22		5		7
70	GAL.	NON-TRACKING TACK COAT		22	22	26
19	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448), PG64-22		6	6	7
27	CU.YD.	ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (448), PG64-22		9	8	10
199	SQ.YD.	REINFORCED CONCRETE APPROACH SLABS, (T=12")		96	103	
300	FOOT	GUARDRAIL, TYPE MGS		50	50	200
12	EACH	MGS BRIDGE TERMINAL ASSEMBLY, TYPE 1		4	4	4
90	HOUR	LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSIST	90			
5	EACH	REPLACEMENT SIGN	5			
16	EACH	BARRIER REFLECTOR		4	4	8
300	SQ.FT.	SIGNING MISC.: ADDITIONAL SIGNS, GROUND MOUNTED AS DIRECTED BY THE ENGINEER	300			
0.39	MILE	EDGE LINE, 4"		0.13	0.15	0.11
0.19	MILE	CENTER LINE		0.06	0.07	0.06
		DRAINAGE				
6	EACH	CATCH BASIN, NO. CB-1		2		4
28	FOOT	12" CONDUIT, TYPE B		28		
27	FOOT	12" CONDUIT, TYPE C		7		20
		STRUCTURES				
LUMP	LUMP	PORTIONS OF STRUCTURE REMOVED		LUMP	LUMP	LUMP
200,969	POUND	EPOXY COATED REINFORCING STEEL, GRADE 60		58,498	88,648	53,823
300	POUND	REINFORCING STEEL, REPLACEMENT OF EXISTING REINFORCING STEEL		100	100	100
616	CU.YD.	CLASS HP4 CONCRETE, SUPERSTRUCTURE DECK SLAB		199	247	170
239	CU.YD.	CLASS S CONCRETE, BARRIERS AND PARAPETS, USING TYPE 1 CEMENT		72	99	68
144	CU.YD.	CLASS HP4 CONCRETE, ABUTMENT SLABS		37	69	38
9	CU.YD.	CLASS HP4 CONCRETE, FOR PREPLACEMENT TESTING		3	3	3
6,600	EACH	WELDED STUD SHEAR CONNECTORS			4,240	2,360
25	FOOT	CRACK REPAIR USING EPOXY INJECTION	25			
1,578	FOOT	SEALING OF CONSTRUCTION JOINTS		474	654	450
32	EACH	REPLACE EXPANSION BEARING DEVICE		16		16
6	EACH	SCUPPER SALVAGED OR REPLACED			6	
202	SQ.FT.	PATCHING CONCRETE STRUCTURES		196		6
LUMP	LUMP	FALSEWORK, TEMPORARY BRACING, AND PROTECTIVE STRUCTURES		LUMP	LUMP	LUMP
241	FOOT	THREE (3) INCH CONTINUOUS STRIP SEAL IN STRUCTURAL STEEL JOINTS		61	125	55
824	SQ.YD.	CONCRETE WEATHERPROOFING, SUBSTRUCTURE		374	152	298
2,933	SQ.YD.	CONCRETE WEATHERPROOFING, DECK AND ABUTMENT SLABS		799	1,336	798
90	SQ.YD.	CONCRETE SLOPE PROTECTION	<b>***</b>	~~~	90	
1,537	FOOT	TYPE II FENCE, ALL ALUMINUM (6'-0" CHAIN LINK WITH SPECIALS)		461	640	436

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ITEM ODOT

IB.ART.6

SP 614 SP 619

SP 623

624

202

202 202

202

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301

407

441 441 526

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642

SP 604

611

611

SP 202

SP 509 509

SP 511B SP 511B

SP 511B SP 511B

513

SP 516A

SP 516B SP 516G

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SP 519

SP 527

SP 533

SP 536

SP 536 601

SP 607

COMMISSION

AFRON CL 564 WHITE 564 WHITE (330) 838-1

BY DATE TMR 1/19/17

GENERAL SUMMARY OHIO TURNPIKE

AND INFRASTRUCTURE 6 M.P. 178.0, M.P. 179.5 AND TURNPIKE

PROJECT 43-17-05 11/30/16 DATE:

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#### ITEM 630 - SIGNING MISC.: ADDITIONAL SIGNS. GROUND MOUNTED AS DIRECTED BY THE ENGINEER

WHEN ADDITIONAL SIGNING IS NEEDED TO MAINTAIN TRAFFIC, THE CONTRACTOR SHALL FURNISH THE SIGN OR SIGNS AS DIRECTED BY THE ENGINEER. THESE SIGNS SHALL BE GROUND MOUNTED AND MEET ALL THE SPECIFICATIONS OF THE PLAN, PROPOSAL AND CURRENT YEAR CMS.

PAYMENT FOR THIS ITEM SHALL INCLUDE, BUT NOT BE LIMITED TO, THE COST TO FURNISH AND ERECT THE SIGN. INCLUDING DRIVING POSTS OR OTHER APPROVED METHODS OF SIGN SUPPORT, MAINTAINING THE SIGN AND REMOVAL OF THE SIGN. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER

ITEM 630, SIGNING MISC.: ADDITIONAL SIGNS, GROUND MOUNTED 300 SQ. FT.

#### ITEM 614 - REPLACEMENT SIGN

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FLAT SHEET SIGNS FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH THE REQUIREMENTS OF THE PLANS, SPECIFICATIONS AND PROPOSAL WITH BECOME DAMAGED BY TRAFFIC FOR REASONS BEYOND THE CONTROL OF THE CONTRACTOR SHALL BE REPLACED IN KIND WHEN ORDERED BY THE ENGINEER. REPLACEMENT SIGNS SHALL BE NEW. OTHER MATERIALS MAY BE IN USED, BUT GOOD, CONDITION SUBJECT TO APPROVAL BY THE ENGINEER.

PAYMENT FOR THE NEW SIGNS SHALL BE MADE AT THE CONTRACT PRICE PER EACH ITEM 614. REPLACEMENT SIGN, AND SHALL INCLUDE THE COST OF REMOVING AND DISPOSING OF DAMAGED SIGNS, HARDWARE AND SUPPORTS, AND PROVIDING THE NECESSARY REPLACEMENT HARDWARE, SUPPORTS, ETC. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

ITEM 614, REPLACEMENT SIGN

<u>5</u> EACH

### SUSPENSION OF WORK

IF THE CONTRACTOR FAILS TO COMPLY WITH THE PROVISIONS FOR TRAFFIC CONTROL AS SET FORTH IN THESE PLANS OR WITH PROVISIONS OF THE OMUTCD, THE ENGINEER SHALL SUSPEND WORK UNTIL THE CONTRACTOR COMPLIES WITH THE NECESSARY REQUIREMENTS.

#### NOTICE OF CLOSURE SIGNS

NOTICE OF CLOSURE SIGNS SHALL BE ERECTED BY THE CONTRACTOR AT LEAST TWENTY-ONE (21) DAYS IN ADVANCE OF THE SCHEDULED ROAD CLOSURE. THE SIGNS SHALL BE ERECTED ON THE RIGHT HAND SIDE OF THE ROAD FACING TRAFFIC. THEY SHALL BE PLACED SO AS NOT TO INTERFERE WITH THE VISIBILITY OF ANY OTHER TRAFFIC CONTROL SIGNS. THEY SHALL BE ERECTED AT THE POINT OF CLOSURE. THE SIGNS SHALL REMAIN IN PLACE UNTIL THE ROADWAY IS REOPENED TO TRAFFIC.

THE NOTICE OF CLOSURE SIGNS SHALL BE IN ACCORDANCE WITH ITEM 614 AND ODOT SIGN DESIGNS AND MARKINGS MANUAL. EXCEPT THE LAST LINE SHALL READ "OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION".

ROAD WILL BE CLOSED XX-XX-XX FOR XX DAYS OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

> W20-H14 60" X 36"

## ALTERNATE METHODS

F THE CONTRACTOR SO ELECTS, HE/SHE MAY SUBMIT ALTERNATE METHODS FOR THE MAINTENANCE OF TRAFFIC, PROVIDED THE INTENT OF THE PROVISIONS IS FOLLOWED AND NO ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC RESULTS THERE FROM. NO ALTERNATE PLAN SHALL BE PLACED INTO EFFECT UNTIL APPROVAL HAS BEEN GRANTED IN WRITING, BY THE CHIEF ENGINEER.

#### GUARDRAIL TRANSITIONS

TRANSITION GUARDRAIL HEIGHT FROM EXISTING TO STANDARD MIDWEST GUARDRAIL SYSTEM BRIDGE TERMINAL ASSEMBLY HEIGHT IN 12.5 FEET.

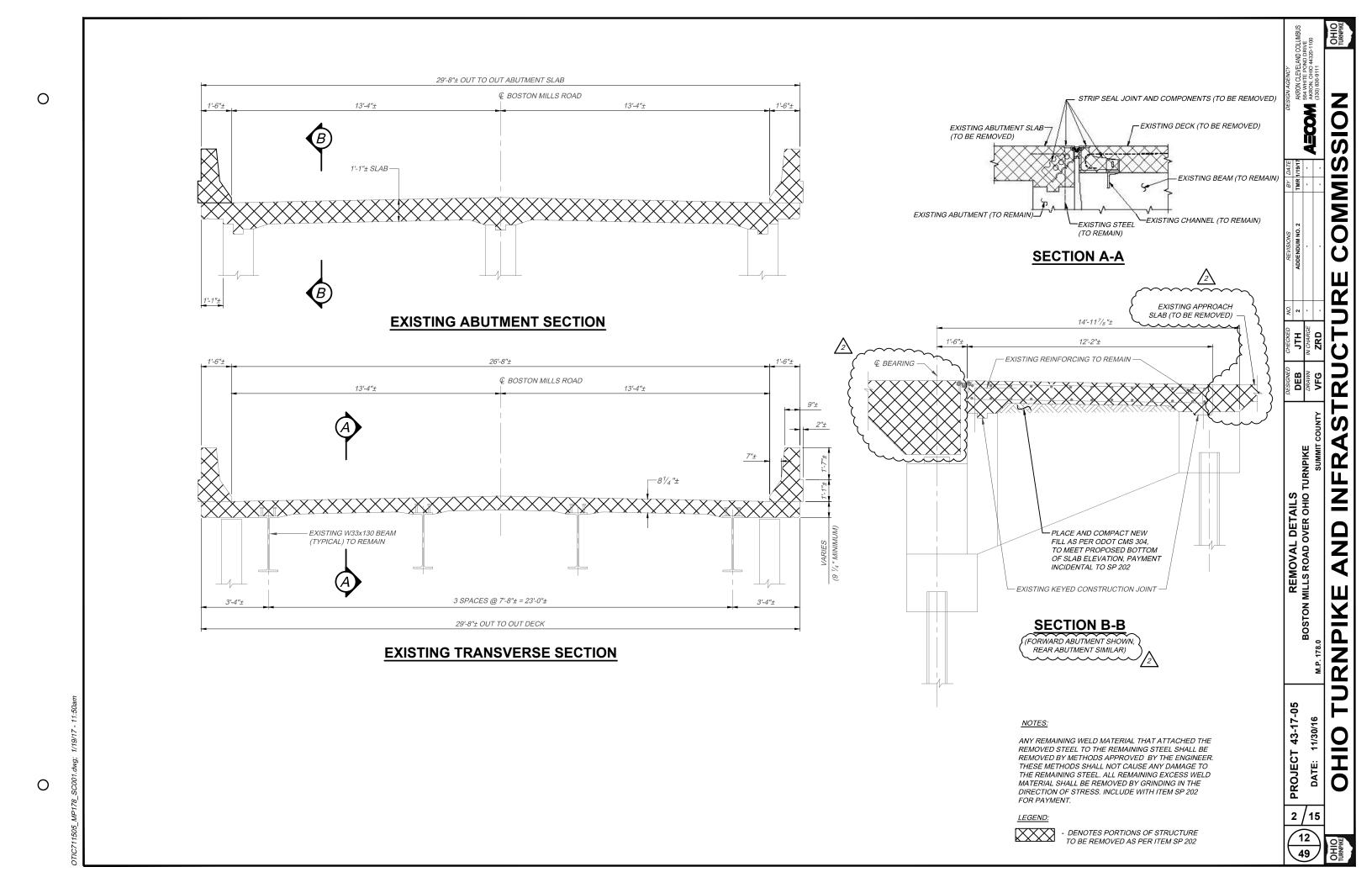
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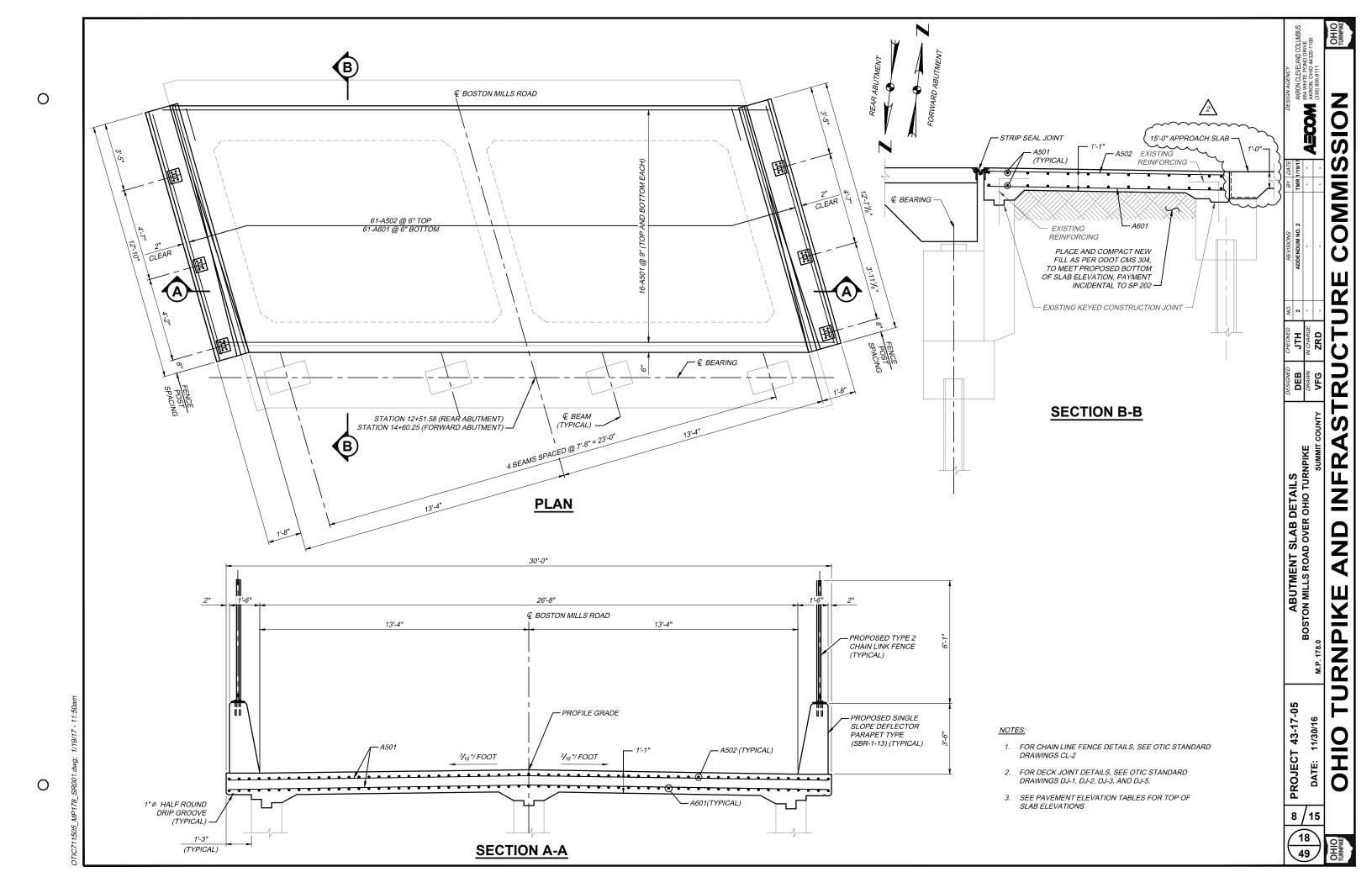
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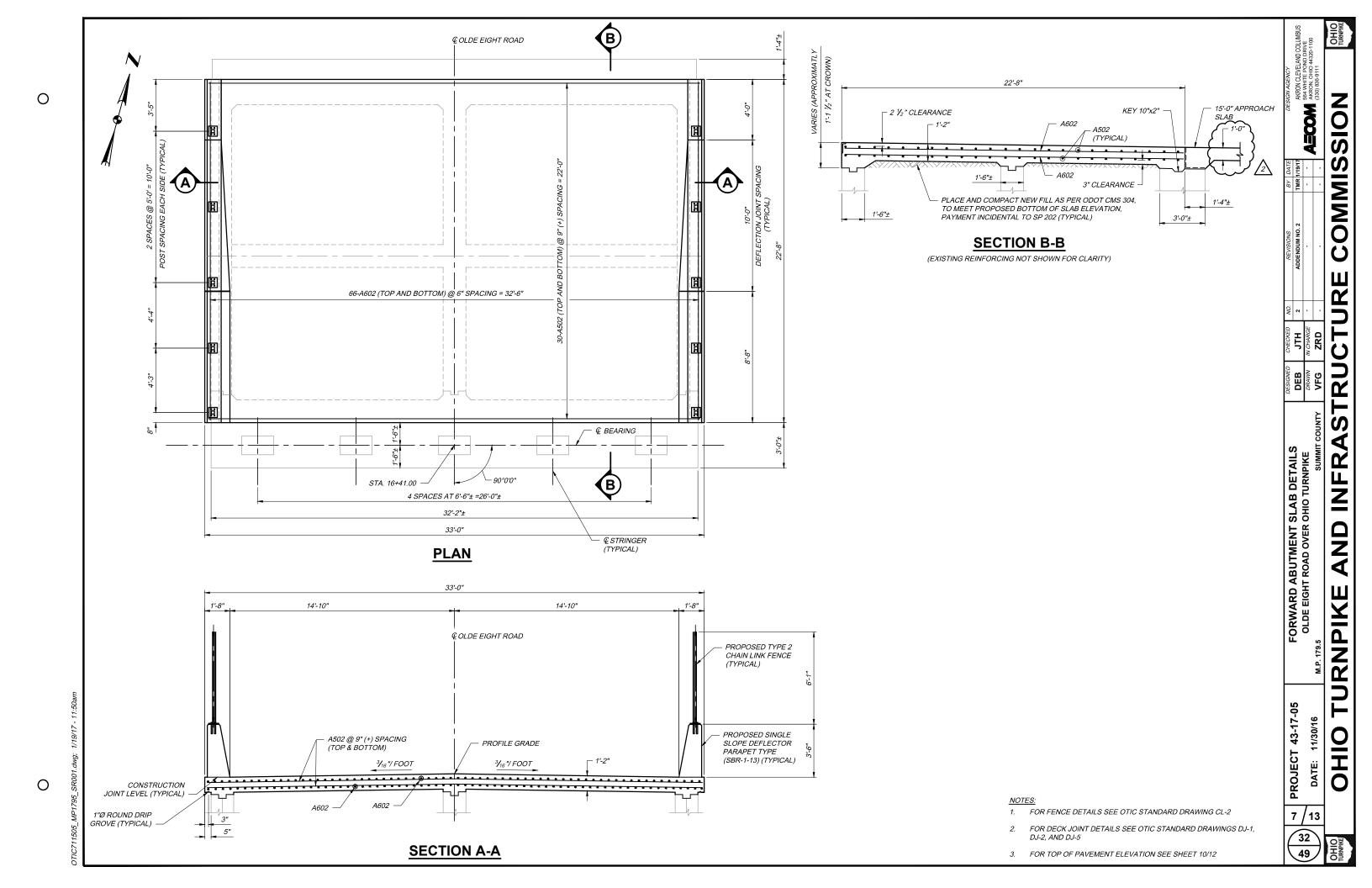
GENERAL NOTES 2 OF **PIKE** ~

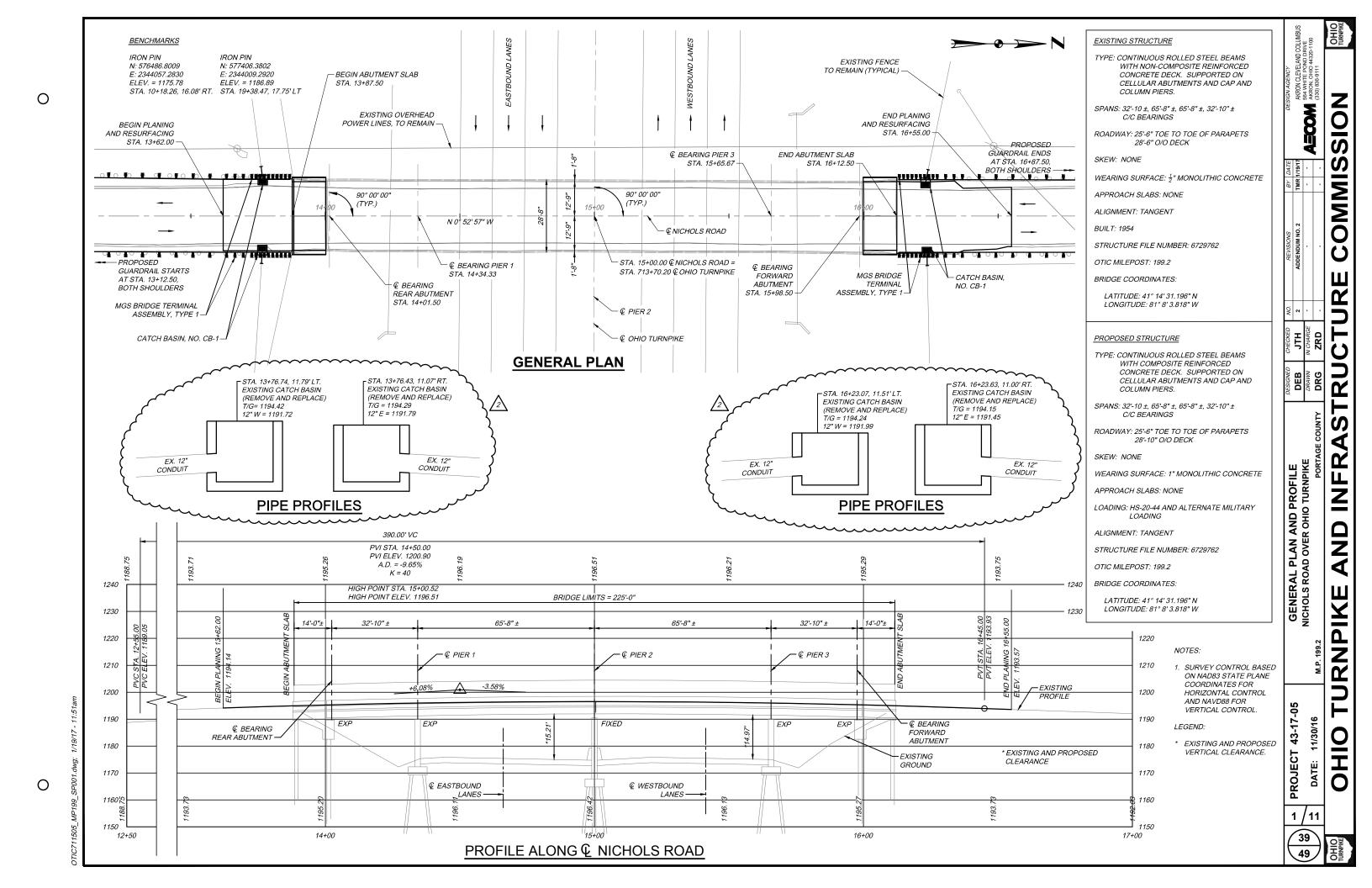
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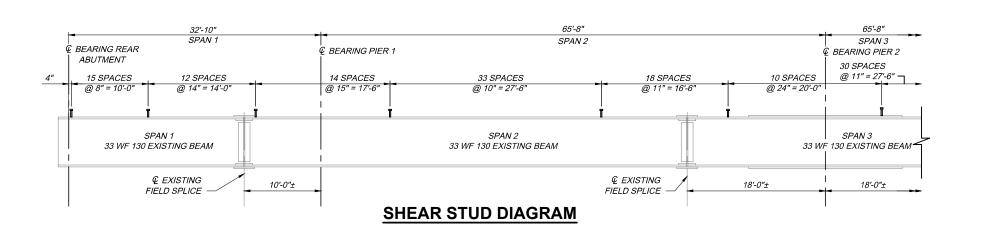
43-17-05 **PROJECT** DATE:

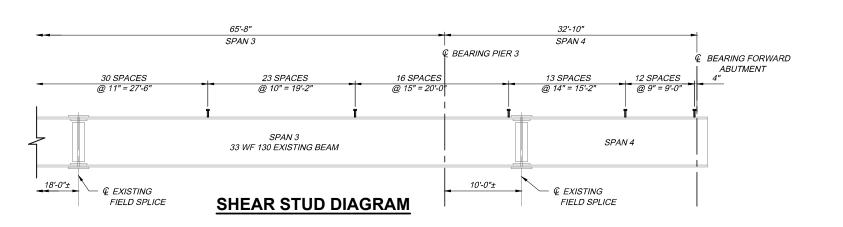


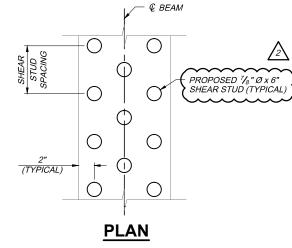


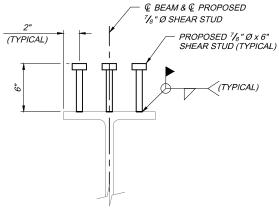












**ELEVATION SHEAR STUD DETAIL** 

# NOTES:

1. WELDED SHEAR STUD CONNECTORS SHALL CONFORM TO AASHTO M169. WELDED SHEAR STUD CONNECTORS SHALL BE MOVED TO AVOID INTERFERENCE WITH RIVET HEADS.

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PROJECT 43-17-05

11/30/16

DATE:

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SHEAR STUD DETAILS NICHOLS ROAD OVER OHIO TURNPIKE

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AND INFRASTRUCTUR

**TURNPIKE** 

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