

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

BID INVITATION NO. 4327

ADDENDUM NO. 1

STEEL ROCKER BEARINGS AND ELASTOMERIC BEARINGS

OPENING DATE: 2:00 P.M. (EASTERN TIME), NOVEMBER 27, 2018

ATTENTION OF BIDDERS IS DIRECTED TO:

ANSWERS TO QUESTIONS RECEIVED THROUGH 5:00PM ON NOVEMBER 14, 2018

-AND-

REVISIONS TO THE CONTRACT DOCUMENTS

Plan Sheets 1 and 2 of 2

Issued by the Ohio Turnpike and Infrastructure Commission by Anthony D. Yacobucci, Chief Engineer, and Mark R. Musson, Director of Contracts Administration.

Anthony D. Yacobucci

Date

Mark R. Musson

Daté

Addendum No. 1

ANSWERS TO QUESTIONS RECEIVED THROUGH 5:00PM ON NOVEMBER 14, 2018:

- Q#1 Are masonry plates required for the elastomeric expansion bearings?
- A#2 Yes. Accordingly, the enclosed Plan Sheets 1 and 2 of 2 are substituted through this Addendum No. 1 for those attached to the original invitation to bid.

MODIFIED CONTRACT DOCUMENTS

With this Addendum No. 1, the Commission substitutes the enclosed material for the following Contract Documents:

Plan Sheets: 1 and 2 of 2 with additions and deletions to the Plan Drawings are called out with a cloud and marked with a revision triangle as thus:

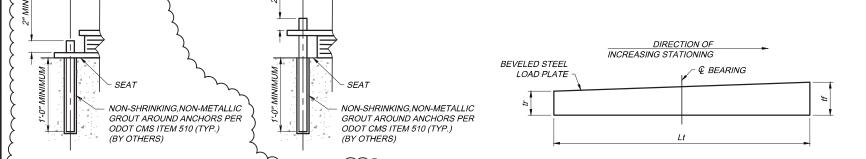


invitation No. 4327 is nereby acknowledged:					
(Firm Name)	_				
(Signature)	_				
(Printed Name)					
(Date)					

THE FOREGOING RESPONSES ARE INCORPORATED INTO THE INVITATION TO BID

ELASTOMERIC BEARING DIMENSIONS																
BEARING LOCATION		BEARING	DESIGN LOADS (KIPS)		NUMBER REQUIRED	ELASTOMER						STEEL LAMINATES		TOP/LOAD ₽		
BRIDGE	SUBSTRUCTURE	BEAMS	TYPE	D.L. (NO F.W.S)	L.L.	BEARINGS	Le	We	Те	ti	te	Ν	Р	t	Lt	Wt
M.P. 47.4	REAR ABUTMENT	A - T	EXPANSION	20.4	43.5	18	10"	1'-4"	2.125"	0.659"	$\left\{ \begin{array}{c} NA \end{array} \right\}$	3 1	2	0.0747"	11"	1'-5"
M.P. 47.4	FORWARD ABUTMENT	A - T	FIXED	20.4	43.5	18	7"	10"	2.000"	0.232"	0.162"	6	6	0.0747"	8"	2'-0"
M.P. 47.5	REAR ABUTMENT	A - T	FIXED	19.2	42.9	18	7"	10"	2.000"	0.232"	0.162"	6	6	0.0747"	8"	2'-2"
M.P. 47.5	FORWARD ABUTMENT	A - T	EXPANSION	19.2	42.9	18	10"	1'-4"	2.125"	0.659"	N/A	3	2	0.0747"	11"	1'-5"

⚠ MASONRY PLATE DIMENSIONS SUBSTRUCTURE BRIDGE BEAM l m Wm 3/4" 2'-1" M.P. 47.4 REAR ABUTMENT A-T 1'-0" FORWARD M.P. 47.5 A-T 3/4" 1'-0" 2'-1" ABUTMENT



R-150 ROCKER BEARING

€ ANCHOR

FIXED BEARING

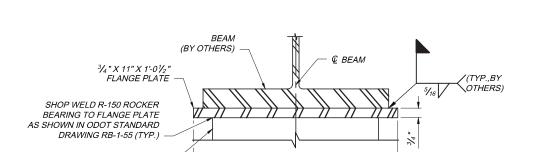
TYPICAL ANCHOR ROD DETAIL

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€ ANCHOR

EXPANSION BEARING

COST OF ANCHOR SHALL BE INCLUDED WITH ITEM 516



FLANGE PLATE DETAIL

1'-01/2"

BEVELED STEEL LOAD PLATE

ELEVATION

NOTES:

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ELASTOMERIC BEARINGS: THE BEARINGS HAVE BEEN DESIGNED UNDER DIVISION I, SECTION 14.6.6, METHOD A, OF THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES, 17TH EDITION. ELASTOMERIC BEARINGS SHALL COMPLY WITH ODOT CMS ITEM 516 AND SECTION 18, BEARINGS, DIVISION II, CONSTRUCTION OF THE AASHTO STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES. BEARINGS SHALL BE GRADE 3, 50 DUROMETER ELASTOMER AND SHALL BE SUBJECTED TO THE LOAD TESTING REQUIREMENTS CORRESPONDING TO DESIGN METHOD A. THE TESTING SHALL BE INCLUDED IN THE PRICE BID FOR THE BEARINGS. THE MANUFACTURER SHALL FURNISH CERTIFIED TEST DATA. THE MANUFACTURER SHALL SUPPLY A SAMPLE BEARING OF EACH DESIGN, AS SHOWN IN THE PLANS, FOR DESTRUCTIVE TESTING AND APPROVAL PURPOSES. SAMPLE BEARINGS SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE ITEMS.

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- THE STEEL LOAD PLATE AND MASONRY PLATE FOR THE ELASTOMERIC BEARINGS SHALL BE ASTM A709 GRADE 50 STEEL AND SHALL BE SHOP PRIMED IN ACCORDANCE WITH SP 514.
- THE STEEL LOAD PLATE AND MASONRY PLATE SHALL BE BONDED BY VULCANIZATION TO THE ELASTOMER DURING THE MOLDING PROCESS.

- BASIS OF PAYMENT: THE UNIT BID PRICE FOR ITEM 516 ELASTOMERIC BEARING DEVICE SHALL INCLUDE ALL MATERIALS, LABOR AND INCIDENTALS NECESSARY TO FURNISH LAMINATED ELASTOMERIC BEARINGS INCLUDING STEEL PLATES AND ANCHOR RODS. SAMPLE BEARINGS USED FOR TESTING SHALL NOT BE MEASURED FOR PAYMENT. BEARING INSTALLATION TO BE PREFORMED BY OTHERS.
- FURNISH ONE V_8 " THICK STEEL SHIM PLATE, FULL WIDTH OF BEAM FLANGE AND FULL LENGTH OF LOAD PLATE, PER ELASTOMERIC BEARING. INCLUDE STEEL SHIMS WITH ITEM 516 FOR PAYMENT.
- ALL ELASTOMERIC BEARINGS SHALL BE MARKED PRIOR TO SHIPPING. THE MARKS SHALL INDICATE THE BEARING LOCATION ON THE BRIDGE AND A DIRECTION ARROW THAT POINTS UP STATION. ALL MARKS SHALL BE PERMANENT AND BE VISIBLE AFTER THE BEARING IS INSTALLED.
- 7. STRUCTURAL STEEL FOR R-150 ROCKER BEARINGS SHALL BE ASTM A709 GRADE 50. BEARINGS SHALL RECEIVE A PRIME COAT IN THE SHOP IN ACCORDANCE WITH SP 514. R-150 ROCKER BEARING DETAILS ARE SHOWN IN ODOT STANDARD DRAWING RB-1-55. THE UNIT PRICE BID FOR ITEM 516 R-150 STRUCTURAL STEEL ROCKER BEARINGS SHALL INCLUDE ALL MATERIALS, LABOR, AND INCIDENTALS NECESSARY TO FURNISH THE R-150 ROCKER BEARINGS INCLUDING DOWELS, SHEET LEAD, AND FLANGE PLATES.
- SEE SHEET 2/2 FOR BEARING AND LOAD PLATE DETAILS.
- BEAM LABELS I AND O NOT USED.

ESTIMATED QUANTITIES										
CMS ITEM	TOTAL	UNIT	DESCRIPTION							
516	24	EACH	R-150 STRUCTURAL STEEL ROCKER BEARINGS							
516	72	EACH	ELASTOMERIC BEARING DEVICE							



PROJECT 2

DATE:

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43-19-07

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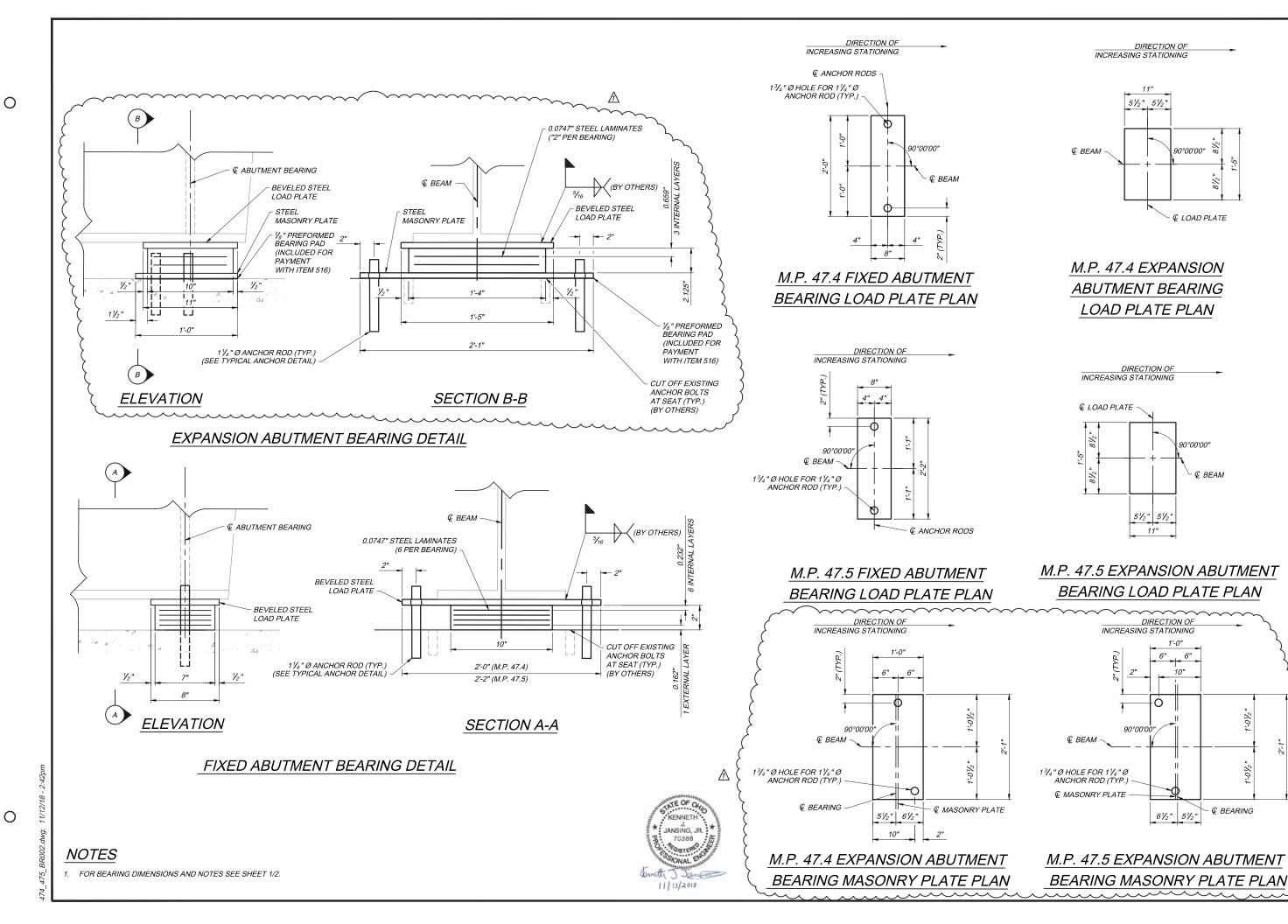
RNPIKE

APM -

11/13/2018

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SION OMMIS TRU URNPIKE OHO

APM -

DIRECTION OF

90°00'00"

€ LOAD PLATE

90°00'00'

5½" 5½" 11"

DIRECTION OF

61/2" 51/2"

- *€ BEAM*

51/2" 51/2"

PROJECT 2 2

DATE:

43-19-07

€ BEARING

BEARING DETAILS