

OHIO TURNPIKE AND
INFRASTRUCTURE COMMISSION

ADDENDUM NO. 1

PROJECT NO. 59-17-02
REPAIRS AND RESURFACING
EASTBOUND AND WESTBOUND ROADWAYS
MILEPOST 136.00 TO MILEPOST 144.10
ERIE AND LORAIN, OHIO

OPENING DATE: 2:00 P.M. (EASTERN TIME), JANUARY 26, 2017

ALL BIDS MUST BE ELECTRONICALLY SUBMITTED THROUGH BID EXPRESS

ATTENTION OF BIDDERS IS DIRECTED TO:

QUESTIONS AND ANSWERS THROUGH 3:00PM ON JANUARY 20, 2017

-AND-

MODIFICATION TO PLAN SHEETS 12 AND 13 OF 13


-AND-


SUBSTITUTION OF STANDARD DRAWINGS AS-1, AS-2, AS-3, AS-4 AND AS-5

-AND-

CHANGE 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 1-20-17


Mark R. Musson
Date 1/20/17

**OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION
ADDENDUM NO. 1
PROJECT NO. 59-17-02**

QUESTIONS AND ANSWERS THROUGH 3:00 PM ON JANUARY 20, 2017

Q#1 Please clarify type of Concrete and strengths required for Item SP 526 Class C Concrete, Approach Slab, using Type 1 Cement (12"). The description of the item and all Drawings Reference Class C Concrete. SP 526 Refers you to 526.02 that requires QC2 Concrete. Also SP 526 - 2. Acceptance Of Concrete discusses Strength Level is satisfactory if it equals or exceeds the specified strength. Please verify the classification of concrete and the specified strength level you are requiring.

A#1 The reference to SP 526 - CLASS C CONCRETE, APPROACH SLAB, USING TYPE 1 CEMENT (T=12") in Plan Sheets 12 of 13 and 13 of 13 are revised through this Addendum No. 1 to specify Item 526 – REINFORCED CONCRETE APPROACH SLABS (T=12"). The revised sheet 12 of 13, 13 of 13, and ESTIMATED QUANTITIES WORKSHEET incorporated into the Contract Documents with this Addendum No. 1. Additionally, OTIC Standard Drawings AS-1, AS-2, AS-3, AS-4, and AS-5 all dated 11/28/14 are rescinded and replaced with OTIC Standard Drawing AS-1, AS-2, AS-3, AS-4, and AS-5 dated July 5, 2016. The revised standard drawings have been included with this Addendum No. 1.

Q#2 SP 526 Concrete Approach Slabs. Will you require the approaches to be mechanically grooved?

A#2 Reference to SP 526 is removed from the estimated quantity sheet and the sub-summary sheet and replaced with ODOT CMS Item 526 through this Addendum No. 1. Accordingly, SP 526 in the Special Provisions is deleted in its entirety through this Addendum No. 1. Under ODOT CMS Item 526, the wearing surface shall be mechanically grooved longitudinally in accordance with Item 511.17.

Q#3 Please provide the calculation sheet for the pavement planning and asphalt quantities, take off quantities from the plans do not match the bid quantities.

A#3 The quantities for pavement planning and asphalt paving quantities have been reviewed and recalculated. The following revisions are incorporated into Plan Sheet 12 of 13, Schedule of Items and the Estimated Quantities Worksheet through this Addendum No. 1:

*ITEM 254 – PAVEMENT PLANING, ASPHALT CONCRETE (T=2") has been revised from ~~319,280~~ to **292,536**.*

*ITEM 254 – PAVEMENT PLANING, ASPHALT CONCRETE (T=3") has been revised from ~~255,760~~ to **263,506**.*

*ITEM SP 403 – ASPHALT CONCRETE LEVELING COURSE, USING CRUSHED STONE, PG 76-22(FR) has been revised from ~~3,097~~ to **2,179**.*

*ITEM SP 404 – ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED STONE, PG 64-22 has been revised from ~~9,847~~ to **10,617**.*

ITEM SP 402 – ASPHALT CONCRETE INTERMEDIATE COURSE, USING CRUSHED STONE, PG 76-22(FR) has been revised from ~~12,000~~ to **12,809**.

ITEM SP 404 – ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED SLAG 76-22(FR) has been revised from ~~13,587~~ to **12,683**.

ITEM SP 404A – JOINT SEALER has been revised from ~~89,222~~ to **91,900**.

ITEM 407 – NON-TRACKING TACK COAT has been revised from ~~79,450~~ to **78,450**.

Q#4 The table on sheet 13 for approach slab replacements does give enough detail to accurately bid this item. Please provide which lane/lanes are to be replaced.

A#4 The approach slab table has been revised to include a table indicating which lane the work is anticipated for this Project. The revised sheet 13 of 13 is incorporated into the Contract Documents with this Addendum No. 1.

Q#5 Is there any information available concerning the lanes of travel the approach slab repairs are in. This information is important in estimating costs of this work.

A#5 See response to Question #4.

Q#6 Would the Commission please provide a pavement summary sheet to help clarify quantities for the OTC 59-17-02 Project?

A#6 See Response to Questions #3.

Q#7 The approach slab removal and replacement chart show only the station, leading and trailing ends, and the quantity for each respective. Given quantity is not inclusive of the complete approach slab and there are no details depicting the location at each approach slab to determine what lane the repair is in. Typically the project plans include a plan detail sheet for each approach slab for each structure. Will the Commission be adding this information by addendum to clarify.

A#7 See response to Question #4.

Addendum No. 1 to Contract 59-17-02:

(Firm Name)

(Signature)

(Printed Name)

Date: _____

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1
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1

* CONTINGENCY QUANTITY TO BE USED AS DIRECTED BY CHIEF ENGINEER (SEE GENERAL NOTES).
** PORTION OF THIS ITEM IS CONTINGENCY QUANTITY (SEE PLANS AND GENERAL NOTES).

ESTIMATED QUANTITY			ITEM DESCRIPTION
ITEM	TOTAL	UNIT	
IB. ART.6	1	LUMP	PREMIUM FOR CONTRACT PERFORMANCE BOND AND PAYMENT BOND
* 202	1,000	FOOT	GUARDRAIL REMOVED FOR REUSE
* 202	3,000	FOOT	GUARDRAIL REMOVED
202	893.33	SQ.YD.	APPROACH SLAB REMOVED
* SP 202B	20	CU.YD.	CRACK REPAIR, 1" OR LESS, USING SAND ASPHALT
* SP 202B	2,000	GALLON	CRACK REPAIR, 1" OR LESS, USING HOT JOINT SEALER
* SP 202B	20	CU.YD.	CRACK REPAIR, WIDER THAN 1" AND LESS THAN 1" IN DEPTH, USING ITEM SP 404 (PG 64-22)
* SP 202B	20	CU.YD.	CRACK REPAIR, WIDER THAN 1" AND GREATER THAN 1" IN DEPTH, USING SP 402 (PG 64-22)
* SP 202B	20	CU.YD.	3 CORNER CRACK REPAIR, USING ITEM SP 402 (PG 64-22)
* SP 202B	20	CU. YD.	REPAIR EXISTING EXPANSION JOINT, USING ITEM SP 404 (PG 64-22)
* 204	490	CU.YD.	EXCAVATION OF SUBGRADE
* 204	50	CU.YD.	EMBANKMENT
* 204	2,940	SQ.YD.	SUBGRADE COMPACTION
** 254	292,536	SQ.YD.	PAVEMENT PLANING, ASPHALT CONCRETE (T=2")
* 254	263,506	SQ.YD.	PAVEMENT PLANING, ASPHALT CONCRETE (T=3")
* 254	1,440	SQ.YD.	PAVEMENT PLANING, PORTLAND CEMENT CONCRETE, AS PER PLAN
** SP 304	490	CU.YD.	AGGREGATE BASE
* SP 403	2,179	CU.YD.	ASPHALT CONCRETE LEVELING COURSE, USING CRUSHED STONE, PG 76-22(FR)
* SP 402	580	CU.YD.	ASPHALT CONCRETE INTERMEDIATE COURSE, USING CRUSHED STONE, PG 64-22
** SP 404	10,617	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED STONE, PG 64-22
* SP 402	12,809	CU.YD.	ASPHALT CONCRETE INTERMEDIATE COURSE, USING CRUSHED STONE, PG 76-22(FR)
** SP 404	12,683	CU.YD.	ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED SLAG, PG 76-22(FR)
** SP 404A	91,900	FOOT	JOINT SEALER
** 407	78,450	GALLON	NON-TRACKING TACK COAT
SP 451	440.00	SQ.YD.	FULL DEPTH PAVEMENT REPAIRS (ASPHALT)
SP 526	893.33	SQ.YD.	REINFORCED CONCRETE APPROACH SLABS (T=12")
SP 536	13,760	SQ.YD.	CONCRETE WEATHERPROOFING, DECK, ABUTMENT SLABS AND APPROACH SLABS
SP 536	3,654	SQ.YD.	CONCRETE WEATHERPROOFING, PARAPETS
* 604	5	EACH	CATCH BASIN, ADJUSTED TO GRADE, LESS THAN 4", AS PER PLAN
* 604	5	EACH	CATCH BASIN, ADJUSTED TO GRADE, 4" - 12", AS PER PLAN
* 604	5	EACH	CATCH BASIN, ADJUSTED TO GRADE, GREATER THAN 12", AS PER PLAN
* 604	5	EACH	CATCH BASIN, GRATE AND CASTING, AS PER PLAN
* SP 605	1,000	FOOT	AGGREGATE DRAINS, TYPE II
* 606	3,000	FOOT	GUARDRAIL, TYPE MGS, USING LONG STEEL POSTS
* 606	1,000	FOOT	GUARDRAIL REBUILT, TYPE 5, USING STEEL POSTS
* 609	1,000	FOOT	ASPHALT CONCRETE CURB, TYPE I, PG 64-22
SP 614	1	LUMP	MAINTAINING TRAFFIC, AS PER PLAN
SP 614	4,680	HOURS	ZONE PERSON
614	100	CU.YD.	ASPHALT CONCRETE FOR MAINTAINING TRAFFIC, AS PER PLAN
614	17.30	MILE	WORK ZONE EDGE LINE, CLASS 1, 740.02 TYPE 1
614	17.30	MILE	WORK ZONE LANE LINE, CLASS 1, 740.02 TYPE 1
614	14,361	FOOT	WORK ZONE CHANNELIZING LINE, CLASS 1, 740.02 TYPE 1
614	5,364	FOOT	WORK ZONE CHANNELIZING LINE, CLASS 1, 740.06 TYPE 1
* 617	37,100	SQ.YD.	SHOULDER PREPARATION
* 617	3,000	CU.YD.	COMPACTED AGGREGATE
* 617	50	M. GAL.	WATER
619	1	LUMP	FIELD OFFICE, AS PER PLAN
** 621	2,878	EACH	RAISED PAVEMENT MARKERS REMOVED
** SP 621	2,878	EACH	RAISED PAVEMENT MARKERS
SP 623	1	LUMP	CONSTRUCTION LAYOUT SURVEY
624	1	LUMP	MOBILIZATION
* SP 626	400	EACH	BARRIER REFLECTOR, TYPE A (WHITE)
** SP 626	200	EACH	BARRIER REFLECTOR, TYPE B (WHITE)
** SP 626	3,880	EACH	BARRIER REFLECTOR, TYPE B (YELLOW)
SP 626A	1,440	EACH	CONSTRUCTION ZONE MARKERS, ONE WAY MODEL
* SP 627	1,450	CU.YD.	STONE SHOULDER PROTECTION
SP 641A	0.60	MILE	TEMPORARY REMOVAL OF EXISTING PAVEMENT MARKINGS
** SP 641C	19.65	MILE	REMOVAL OF PAVEMENT MARKING
** 642	37.80	MILE	6" WHITE LANE LINE, TYPE 1
** 642	19.90	MILE	6" WHITE EDGE LINE, TYPE 1
** 642	19.90	MILE	6" YELLOW EDGE LINE, TYPE 1
642	5,000	FOOT	12" WHITE CHANNELIZING LINE, TYPE 1
642	5,000	FOOT	WHITE DOTTED LINE, 6" WHITE, TYPE 1
SPECIAL	2.00	MILE	SNAP MILL AND FILL
SPECIAL	32.27	MILE	SONIC NAP ALERT PATTERN (SNAP)
SPECIAL	4	EACH	SECURING MANHOLE LID
SPECIAL	20	EACH	AIR SPEED ZONE MARKINGS, AS PER PLAN
SPECIAL	7	EACH	EXISTING CROSSOVER TO BE CLOSED/RE-OPENED, AS PER PLAN
SPECIAL	56	SQ.YD.	PATCHING CONCRETE BRIDGE DECKS, TYPE B

DESIGN AGENCY

BY DATE
JJS 1/13/17

REVISIONS
ADDENDUM NO. 1

NO. 1

CHECKED
TWB
JJS
DRAWN
JJS
IN CHARGE
DCA

ESTIMATED QUANTITIES

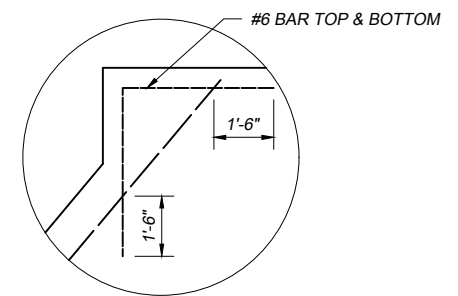
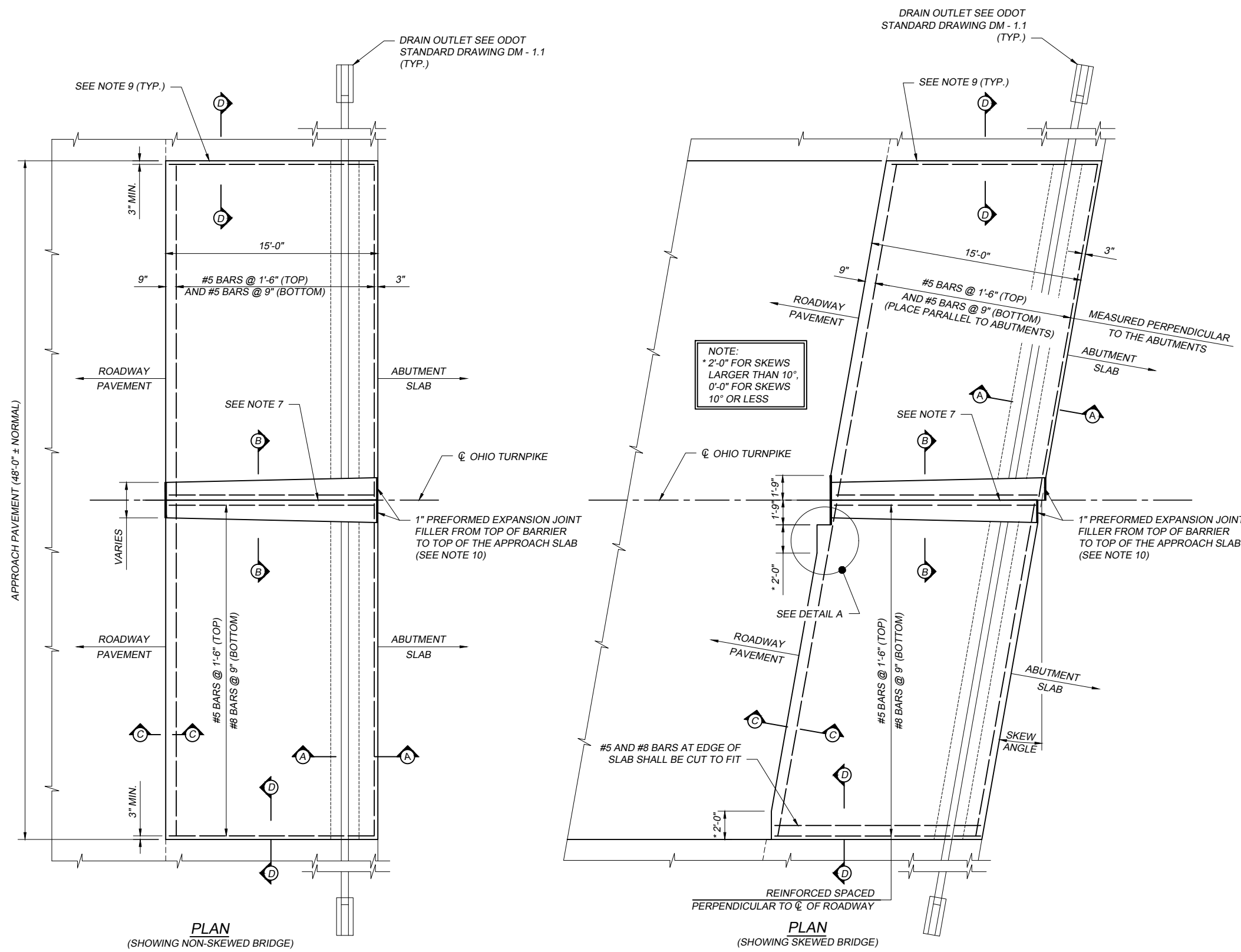
PROJECT 59-17-02

12
13



OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION





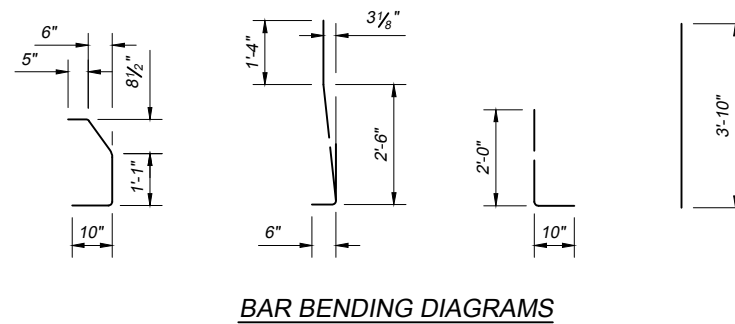
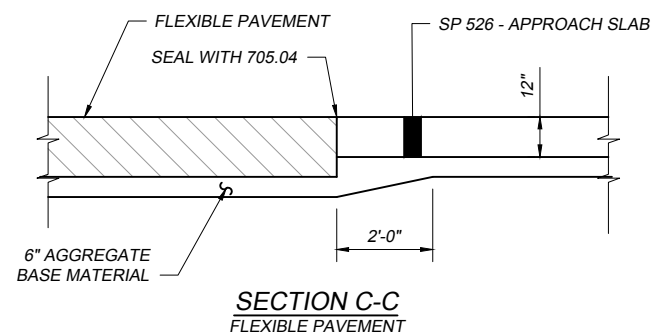
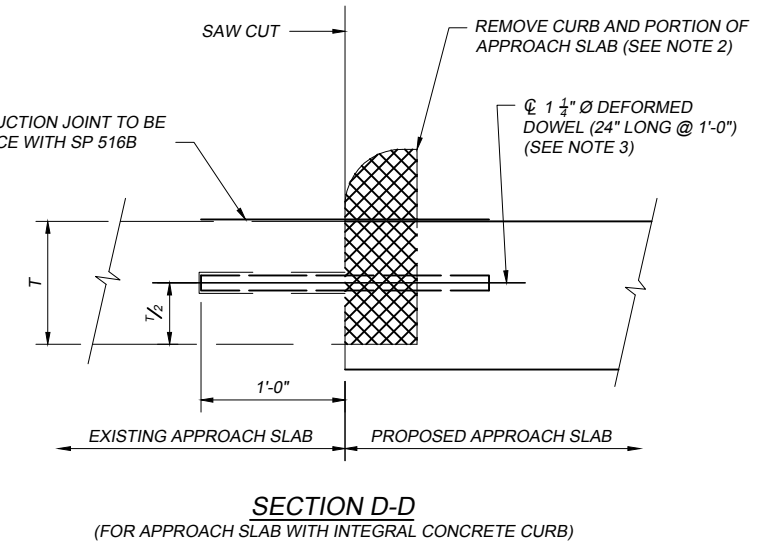
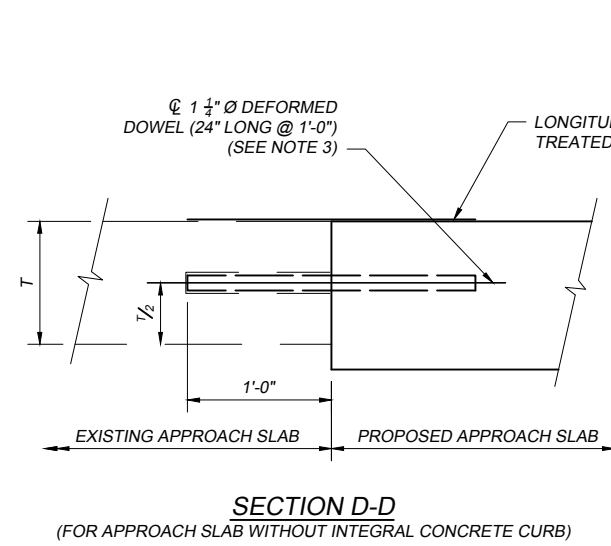
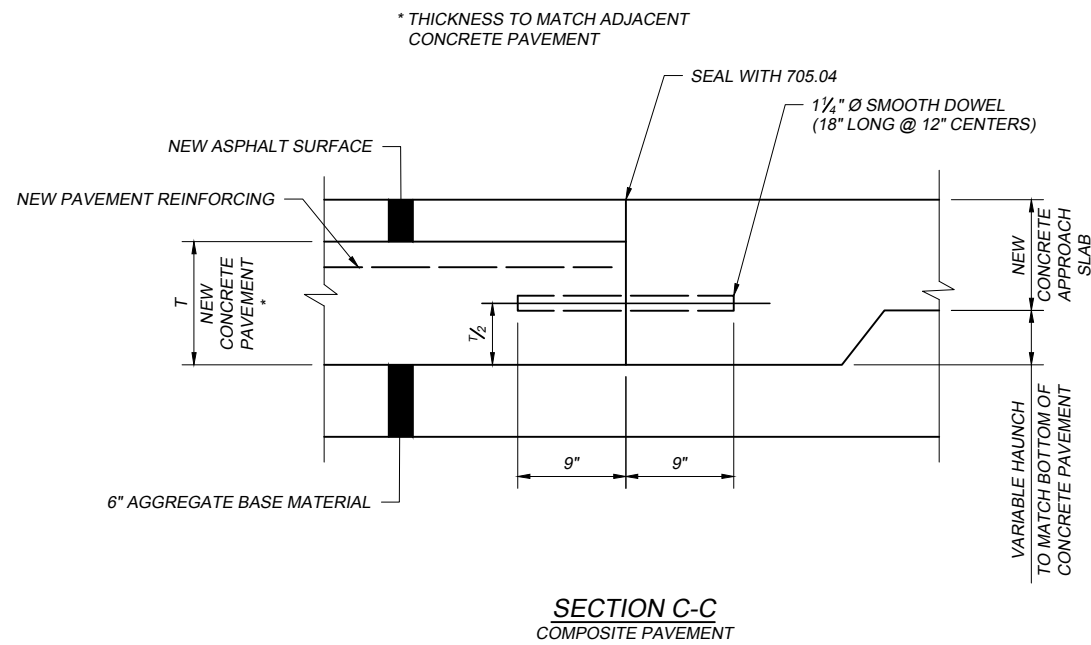
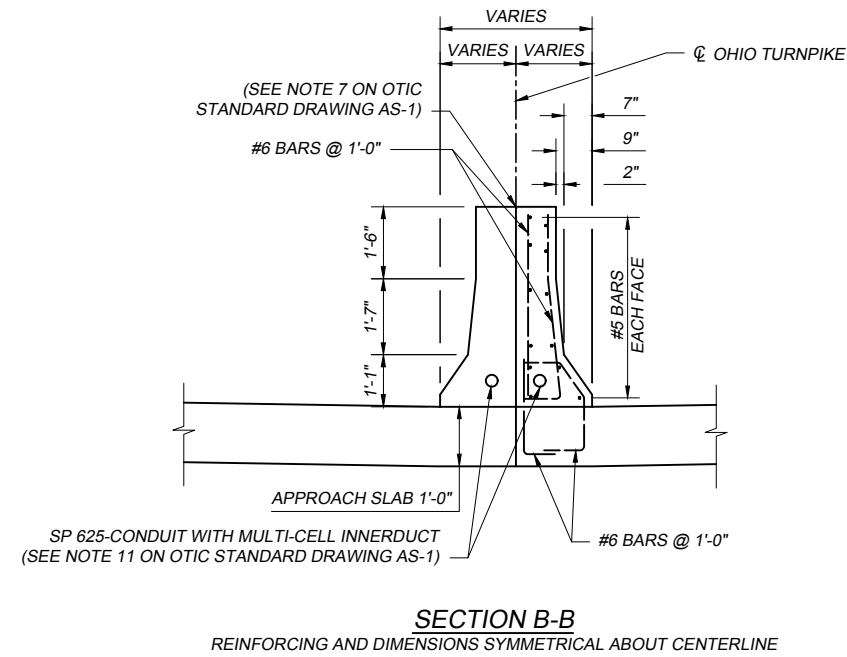
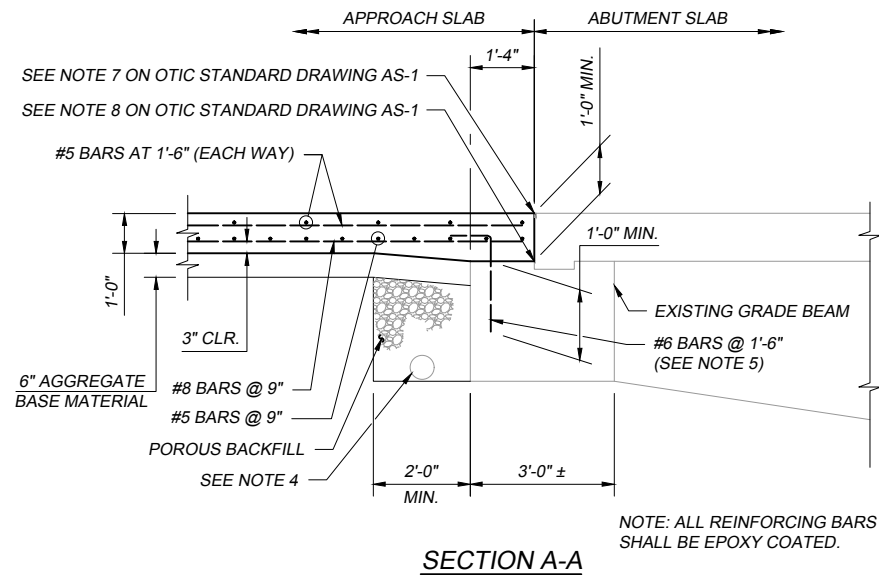
DETAIL A
(ONLY REQUIRED AT BRIDGES WITH SKEW GREATER THAN 10 DEGREES)

NOTES:

1. THIS DRAWING PROVIDES DESIGN AND GENERAL CONSTRUCTION DETAILS. THE PROJECT PLANS WILL SHOW SKEW, ESTIMATED QUANTITY (SQ. YDS.), AND SPECIAL NOTES AND DETAILS, WHERE NECESSARY, FOR CONDITIONS OTHER THAN THOSE INDICATED HEREON. THE APPROACH SLAB SHALL BE ADAPTED TO FIT THE ENDS OF THE ABUTMENT SLAB AND THE APPROACH PAVEMENT.
2. CONCRETE: CLASS S. REINFORCING STEEL: GRADE 60 MIN YIELD STRENGTH 60,000 P.S.I., SHALL BE EPOXY COATED AND AS PER ITEM 509.
3. LONGITUDINAL CONSTRUCTION JOINTS REQUIRED FOR STAGE CONSTRUCTION SHALL BE AS PER 511.12 AND SHALL BE TREATED IN ACCORDANCE WITH SP 516B.
4. CROWN SHALL CONFORM TO THAT OF THE BRIDGE DECK. IF THE RATE OF CROWN OF THE BRIDGE DECK DIFFERS FROM THAT OF THE APPROACH ASPHALT PAVEMENT, A SMOOTH TRANSITION SHALL BE PROVIDED ON THE APPROACH ASPHALT PAVEMENT AT A TRANSITION RATE OF 1 TO 200.
5. TRANSVERSE JOINT DETAILS AT THE APPROACH PAVEMENT END OF THE APPROACH SLAB SHALL BE AS DETAILED ON OTIC STANDARD DRAWING AS-2.
6. BASE MATERIAL SHALL BE SP 304-AGGREGATE BASE.
7. GROOVE AND SEAL WITH 705.04 AS PER ODOT STANDARD DRAWING BP-2.1
8. TYPE A WATERPROOFING SHALL NOT EXTEND ABOVE THE BOTTOM OF THE GROOVE INTO WHICH THE JOINT SEALER IS TO BE PLACED. IT SHALL BE APPLIED TO THE ENTIRE AREA OF THE ABUTMENT OR SUPERSTRUCTURE WHICH COMES INTO CONTACT WITH THE APPROACH SLAB.
9. THE JOINT BETWEEN THE EXISTING AND THE NEW APPROACH SLABS SHALL BE AS SHOWN IN SECTION 'D-D'.
10. 1" PREFORMED EXPANSION JOINT FILLER SHALL BE PER 705.03
11. THE TWO 4" DIAMETER PVC CONDUITS WITH MULTI-CELL INNERDUCT SHALL COMPLY WITH SP 625.
12. FOR SECTIONS 'A-A', 'B-B', 'C-C' AND 'D-D' AND ADDITIONAL INFORMATION, SEE OTIC STANDARD DRAWING AS-2.
13. THE FOLLOWING ITEMS SHALL BE INCLUDED IN THE UNIT PRICE BID PER SQUARE YARD FOR ITEM 526, REINFORCED CONCRETE APPROACH SLABS (T=12"):

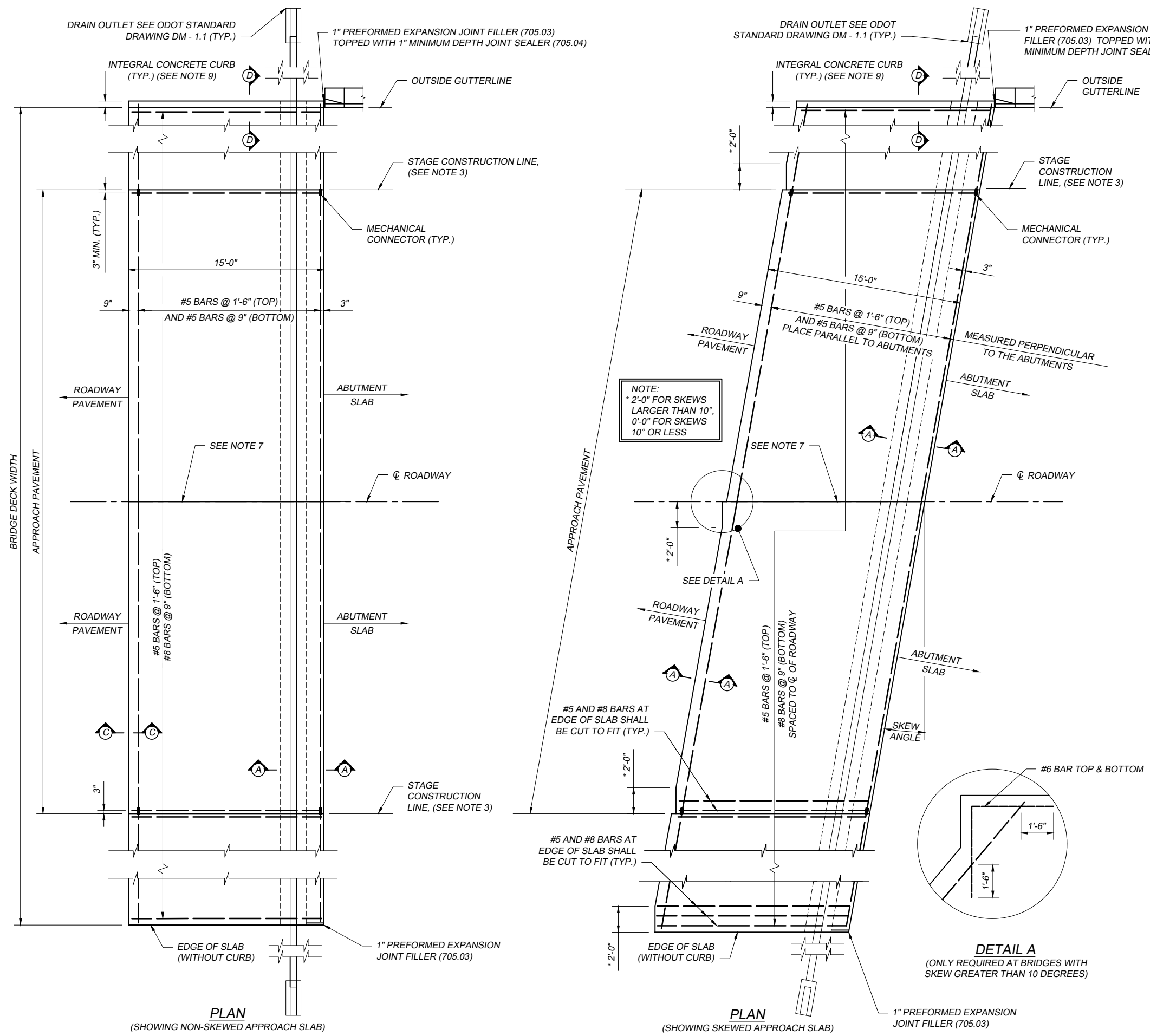
- : ALL JOINTS, INCLUDING DOWEL HOLES, DOWELS, AND GROUT
- : GROOVE AND JOINT SEAL
- : TYPE 'A' WATERPROOFING
- : 1" PREFORMED EXPANSION JOINT FILLER
- : MEDIAN BARRIERS
- : REINFORCING STEEL
- : POROUS BACKFILL
- : 6" PERFORATED CORRUGATED PLASTIC PIPE, 6" CORRUGATED PLASTIC PIPE, AND PRECAST REINFORCED CONCRETE OUTLET PER ODOT STANDARD DRAWING DM 1.1.

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NOTES:

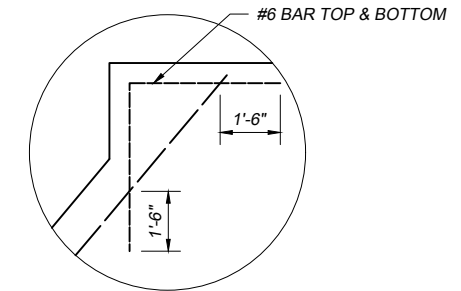
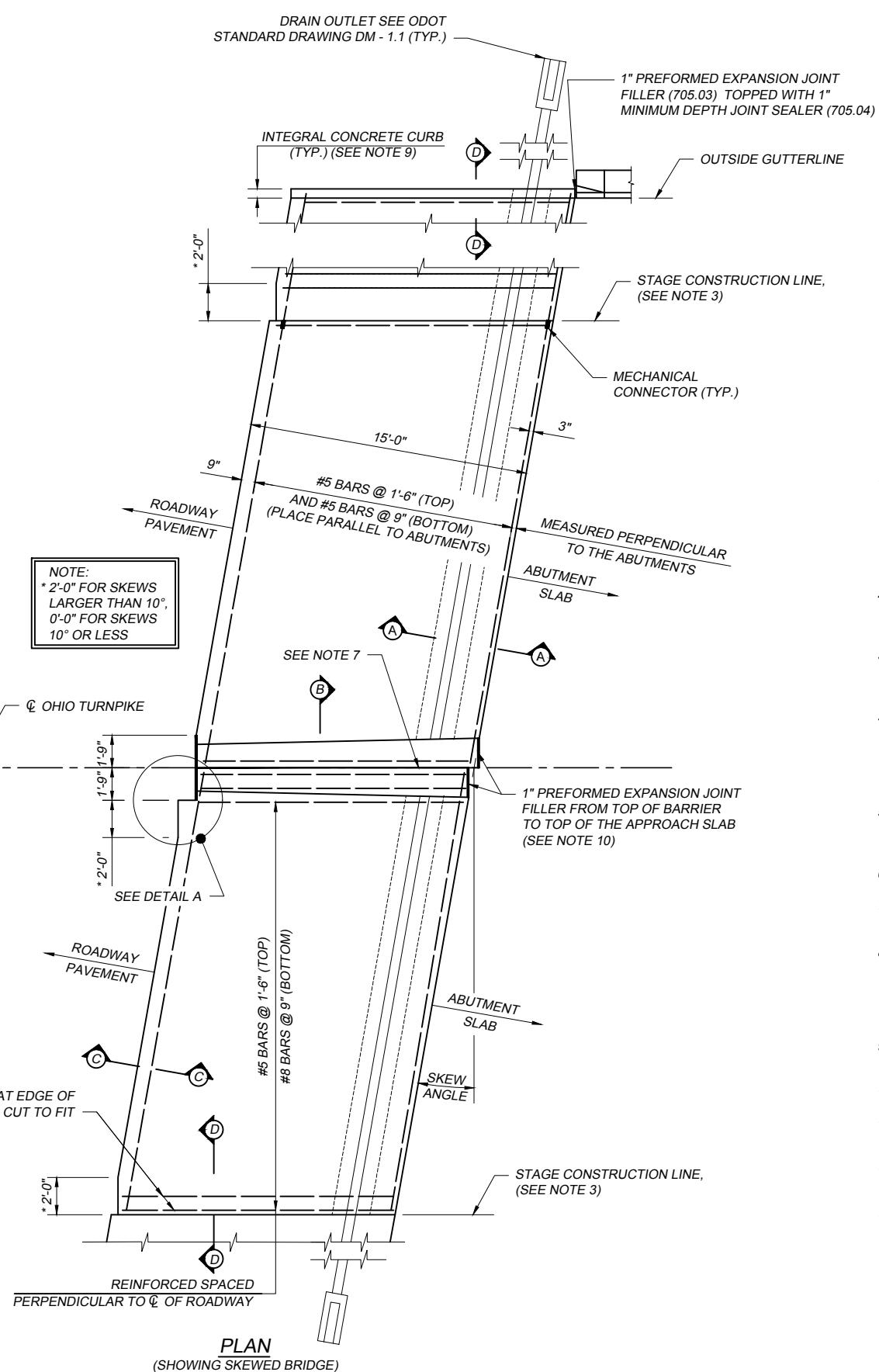
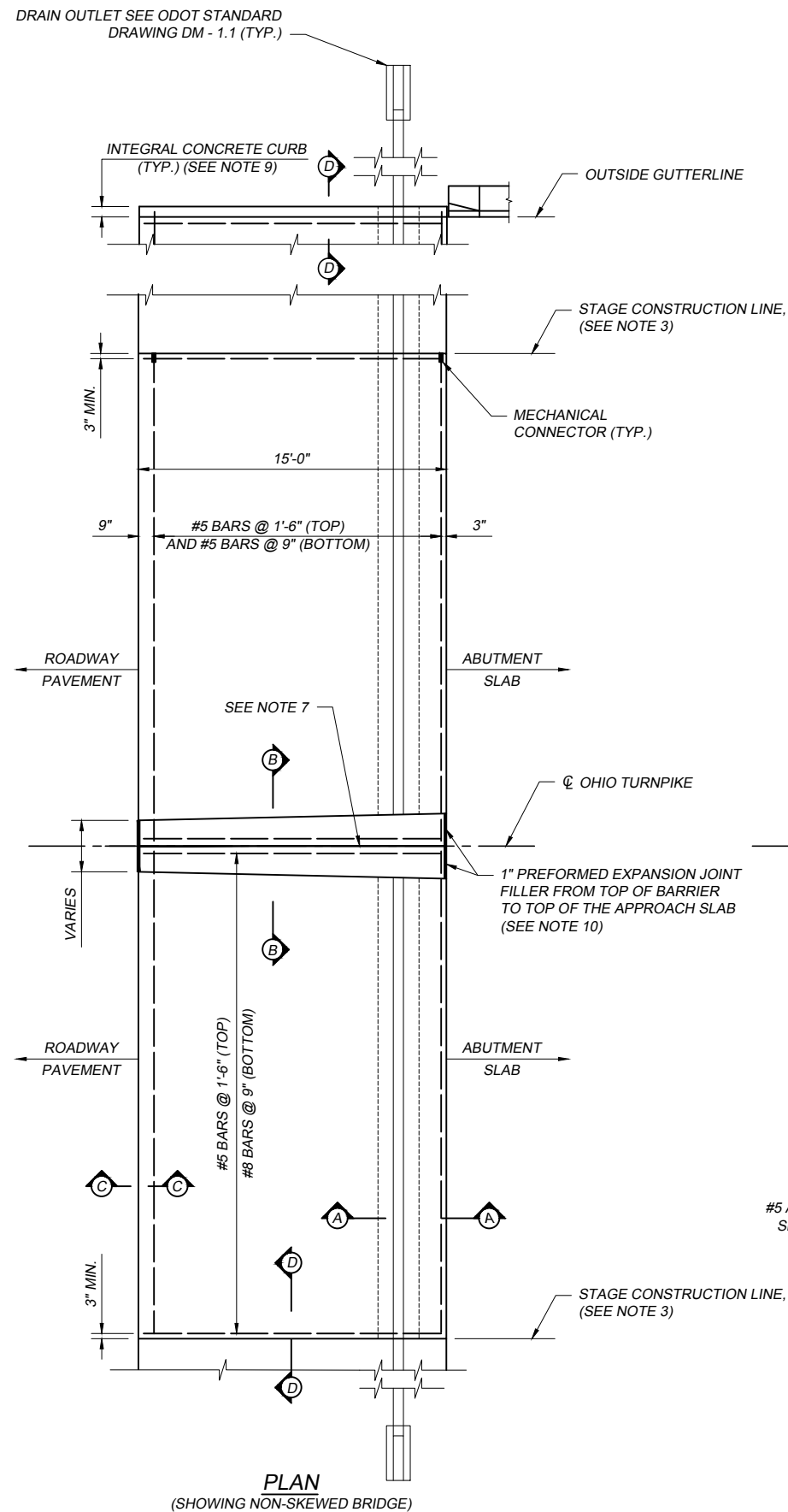
- FOR LOCATIONS OF SECTIONS 'A-A', 'B-B', 'C-C' AND 'D-D' AND ADDITIONAL NOTES, SEE OTIC STANDARD DRAWING AS-1.
- THE REMOVAL SHALL BE PER SP 202 BUT THE COST OF THE REMOVAL SHALL BE INCIDENTAL TO THE COST OF ITEM 526, REINFORCED CONCRETE APPROACH SLABS (T=12").
- DRILL 1 3/4" Ø HOLE INTO EXISTING CONCRETE. PARTIALLY FILL WITH NONSHRINKING GROUT BEFORE INSERTING DOWEL PER 510.03 AND THE COST IS INCIDENTAL TO THE COST OF ITEM 526, REINFORCED CONCRETE APPROACH SLABS (T=12").
- 6" DRAIN PIPE SHALL BE PERFORATED CORRUGATED PLASTIC PIPE PER SP 606, SLOPED AT 1/8" / FT. TO DRAIN. THE STONE SHALL BE IN ACCORDANCE WITH SP 606. THE 6" NON-PERFORATED DRAIN PIPE SHALL BE OUTLETTED AT A 2% PREFERRED MINIMUM SLOPE ONTO THE ADJACENT EMBANKMENT. PROVIDE A PRECAST REINFORCED CONCRETE OUTLET PER ODOT STANDARD DRAWING DM 1.1. COST IS INCIDENTAL TO THE COST OF ITEM 526, REINFORCED CONCRETE APPROACH SLABS (T=12").
- DRILL HOLES INTO EXISTING CONCRETE GRADE BEAM AND PLACE NONSHRINK, NONMETALLIC GROUT AND DOWEL BARS IN ACCORDANCE WITH 510.03. COST IS INCIDENTAL TO THE COST OF ITEM 526, REINFORCED CONCRETE APPROACH SLABS (T=12").



- NOTES:**
- THIS DRAWING PROVIDES DESIGN AND GENERAL CONSTRUCTION DETAILS. THE PROJECT PLANS WILL SHOW SKEW, CURBS (IF ANY), ESTIMATED QUANTITY (SQ. YDS.), AND SPECIAL NOTES AND DETAILS, WHERE NECESSARY FOR CONDITIONS OTHER THAN THOSE INDICATED HEREON. THE APPROACH SLAB SHALL BE ADAPTED TO FIT THE ENDS OF THE ABUTMENT SLAB AND THE APPROACH PAVEMENT.
 - CONCRETE: CLASS S. REINFORCING STEEL: GRADE 60 MIN YIELD STRENGTH 60,000 P.S.I., SHALL BE EPOXY COATED AND AS PER ITEM 509.
 - LONGITUDINAL CONSTRUCTION JOINTS REQUIRED FOR STAGE CONSTRUCTION SHALL BE AS PER 511.12 AND SHALL BE TREATED IN ACCORDANCE WITH SP 516B.
 - CROWN SHALL CONFORM TO THAT OF THE APPROACH PAVEMENT AND BRIDGE DECK. IF THE RATE OF CROWN OF THE BRIDGE DECK DIFFERS FROM THAT OF THE APPROACH PAVEMENT, A SMOOTH TRANSITION SHALL BE PROVIDED ON THE APPROACH PAVEMENT AT A TRANSITION RATE OF 1 TO 200.
 - TRANSVERSE JOINT DETAILS AT THE APPROACH PAVEMENT END OF THE APPROACH SLAB SHALL BE AS DETAILED ON OTIC STANDARD DRAWING AS-5.
 - BASE MATERIAL SHALL BE SP 304-AGGREGATE BASE.
 - GROOVE AND SEAL WITH 705.04 AS PER ODOT STANDARD DRAWING BP-2.1.
 - TYPE A WATERPROOFING SHALL NOT EXTEND ABOVE THE BOTTOM OF THE GROOVE INTO WHICH THE JOINT SEALER IS TO BE PLACED. IT SHALL BE APPLIED TO THE ENTIRE AREA OF THE ABUTMENT OR SUPERSTRUCTURE WHICH COMES INTO CONTACT WITH THE APPROACH SLAB.
 - THE INTEGRAL CONCRETE CURB SHALL BE PROVIDED ON THE NEW APPROACH SLAB AS INDICATED ON THE PROJECT PLANS AND SHOWN IN SECTION 'D-D'.
 - 1" PERFORMED EXPANSION JOINT FILLER SHALL BE PER 705.03.
 - CURBS, BRIDGES WITH SIDEWALKS: FOR BRIDGES CONSTRUCTED WITH RAISED SIDEWALKS, DEFLECTOR PARAPETS OR OTHER TYPES OF CONSTRUCTION WHICH RETAIN ROADWAY SURFACE DRAINAGE, THE APPROACH SLABS SHALL EITHER INCLUDE INTEGRAL CURBS OR BE CONSTRUCTED IN CONJUNCTION WITH BRIDGE CURBS. CURB HEIGHT SHALL BE TRANSITIONED UNIFORMLY BETWEEN BRIDGE CURB HEIGHT AND APPROACH CURB HEIGHT IN LENGTH AS FOLLOWS: WHERE WINGWALL EXTENDS BEYOND END OF APPROACH SLAB, USE A MINIMUM LENGTH OF 10 FT BEYOND END OF WINGWALL. WHERE THE APPROACH SLAB EXTENDS BEYOND THE END OF WINGWALL, TRANSITION IN THIS LENGTH, HOWEVER, THE TRANSITION LENGTH SHALL NOT BE LESS THAN 10 FT AND THE TRANSITION SHALL EXTEND BEYOND THE END OF THE APPROACH SLAB IF NECESSARY. CURB PLACEMENT SHALL BE IN ACCORDANCE WITH ODOT STANDARD DRAWING BR-1.
 - APPROACH SLAB WIDTH SHALL EXTEND FROM GUTTER LINE TO GUTTER LINE AND BE 6" WIDER FOR EACH CURB BEYOND THE END OF THE PARAPETS.
 - FOR SECTIONS 'A-A', 'C-C' AND 'D-D' AND ADDITIONAL INFORMATION SEE OTIC STANDARD DRAWING AS-5.
 - THE FOLLOWING ITEMS SHALL BE INCLUDED IN THE UNIT PRICE BID PER SQUARE YARD FOR ITEM 526, REINFORCED CONCRETE APPROACH SLABS (T=12"):
 - : ALL JOINTS, INCLUDING DOWEL HOLES, DOWELS, AND GROUT
 - : GROOVE AND JOINT SEAL
 - : TYPE 'A' WATERPROOFING
 - : 1" PERFORMED EXPANSION JOINT FILLER
 - : MEDIAN BARRIERS
 - : REINFORCING STEEL
 - : POROUS BACKFILL
 - : 6" PERFORATED CORRUGATED PLASTIC PIPE, 6" CORRUGATED PLASTIC PIPE, AND PRECAST REINFORCED CONCRETE OUTLET PER ODOT STANDARD DRAWING DM 1.1.

OHIO TURNPIKE	DATE: JULY 5, 2016
REINFORCED CONCRETE APPROACH SLABS CELLULAR ABUTMENTS	STANDARD DRAWING
AS-3	OHIO TURNPIKE
1 / 1	OHIO TURNPIKE

AS-4_07-05-16.DWG; 10/24/16 - 2:10pm



NOTES:

1. THIS DRAWING PROVIDES DESIGN AND GENERAL CONSTRUCTION DETAILS. THE PROJECT PLANS WILL SHOW SKEW, ESTIMATED QUANTITY (SQ. YDS.), AND SPECIAL NOTES AND DETAILS, WHERE NECESSARY FOR CONDITIONS OTHER THAN THOSE INDICATED HEREON. THE APPROACH SLAB SHALL BE ADAPTED TO FIT THE ENDS OF THE ABUTMENT SLAB AND THE APPROACH PAVEMENT.
2. CONCRETE: CLASS S. REINFORCING STEEL: GRADE 60 MIN YIELD STRENGTH 60,000 P.S.I., SHALL BE EPOXY COATED AND AS PER ITEM 509.
3. LONGITUDINAL CONSTRUCTION JOINTS REQUIRED FOR STAGE CONSTRUCTION SHALL BE AS PER 511.12 AND SHALL BE TREATED IN ACCORDANCE WITH SP 516B.
4. CROWN SHALL CONFORM TO THAT OF THE BRIDGE DECK. IF THE RATE OF CROWN OF THE BRIDGE DECK DIFFERS FROM THAT OF THE APPROACH ASPHALT PAVEMENT, A SMOOTH TRANSITION SHALL BE PROVIDED ON THE APPROACH ASPHALT PAVEMENT AT A TRANSITION RATE OF 1 TO 200.
5. TRANSVERSE JOINT DETAILS AT THE APPROACH PAVEMENT END OF THE APPROACH SLAB SHALL BE AS DETAILED ON OTIC STANDARD DRAWING AS-5.
6. BASE MATERIAL SHALL BE SP 304-AGGREGATE BASE.
7. GROOVE AND SEAL WITH 705.04 AS PER ODOT STANDARD DRAWING BP-2.1
8. TYPE A WATERPROOFING SHALL NOT EXTEND ABOVE THE BOTTOM OF THE GROOVE INTO WHICH THE JOINT SEALER IS TO BE PLACED. IT SHALL BE APPLIED TO THE ENTIRE AREA OF THE ABUTMENT OR SUPERSTRUCTURE WHICH COMES INTO CONTACT WITH THE APPROACH SLAB.
9. THE INTEGRAL CURB SHALL BE PROVIDED ON THE NEW APPROACH SLAB AS SHOWN IN SECTION 'D-D'.
10. 1" PREFORMED EXPANSION JOINT FILLER SHALL BE PER 705.03
11. THE TWO 4" DIAMETER PVC CONDUITS WITH MULTI-CELL INNERDUCT SHALL COMPLY WITH SP 625.
12. FOR SECTIONS 'A-A', 'B-B', 'C-C' AND 'D-D' AND ADDITIONAL INFORMATION, SEE OTIC STANDARD DRAWING AS-5.
13. THE FOLLOWING ITEMS SHALL BE INCLUDED IN THE UNIT PRICE BID PER SQUARE YARD FOR ITEM 526, REINFORCED CONCRETE APPROACH SLABS (T=12"):

- : ALL JOINTS, INCLUDING DOWEL HOLES, DOWELS, AND GROUT
- : GROOVE AND JOINT SEAL
- : TYPE 'A' WATERPROOFING
- : 1" PREFORMED EXPANSION JOINT FILLER
- : MEDIAN BARRIERS
- : REINFORCING STEEL
- : POROUS BACKFILL
- : 6" PERFORATED CORRUGATED PLASTIC PIPE, 6" CORRUGATED PLASTIC PIPE, AND PRECAST REINFORCED CONCRETE OUTLET PER ODOT STANDARD DRAWING DM 1.1.

DATE: JULY 5, 2016

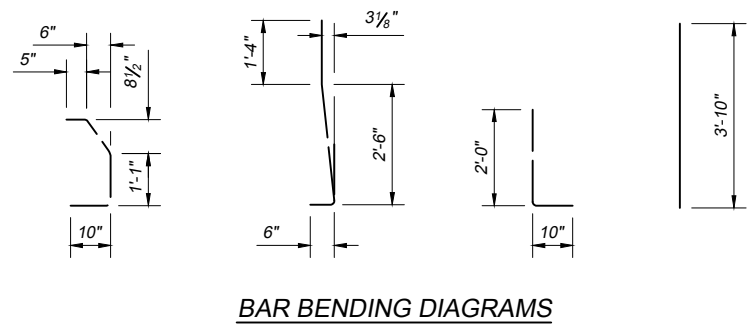
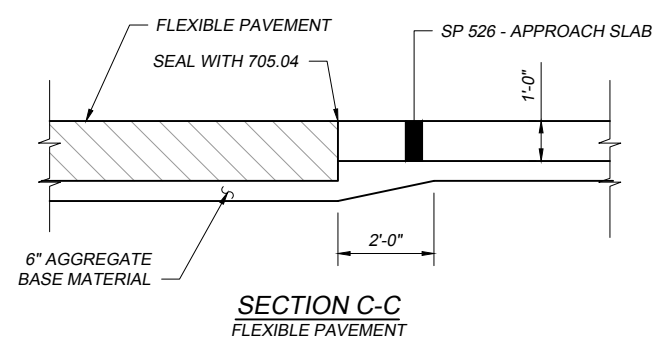
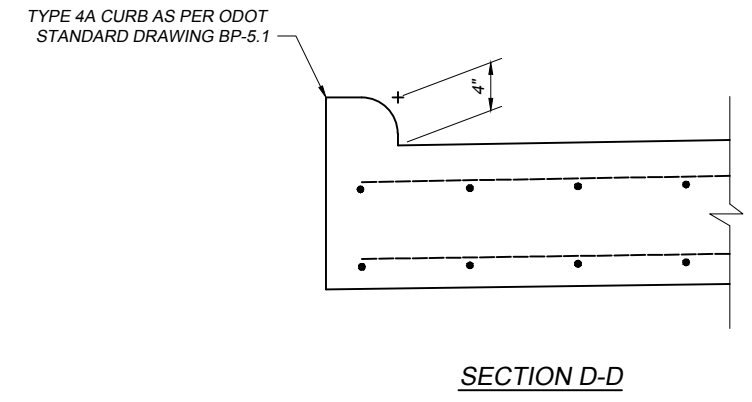
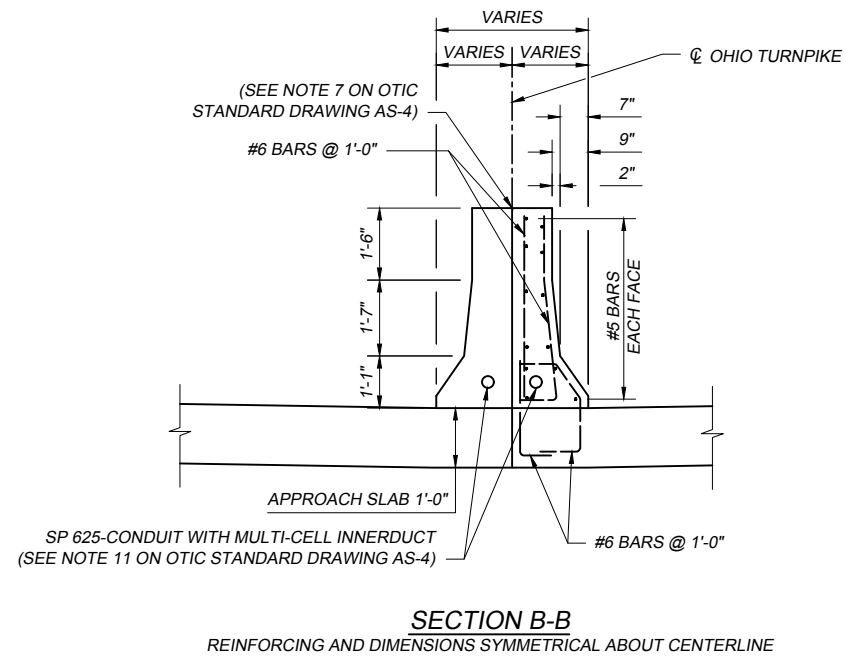
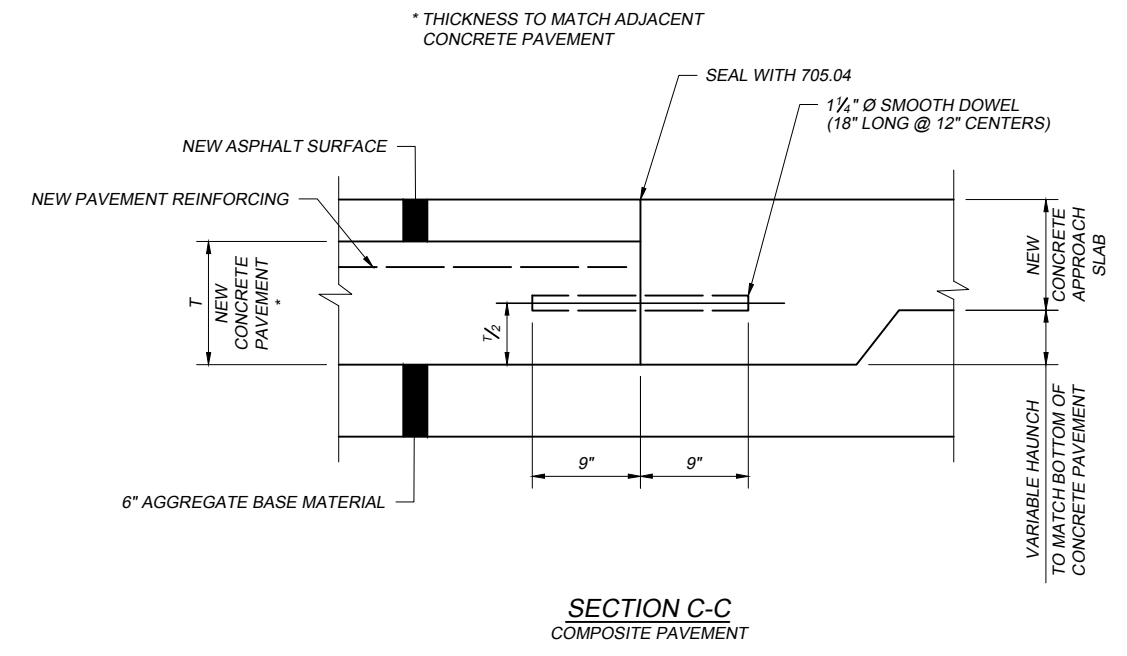
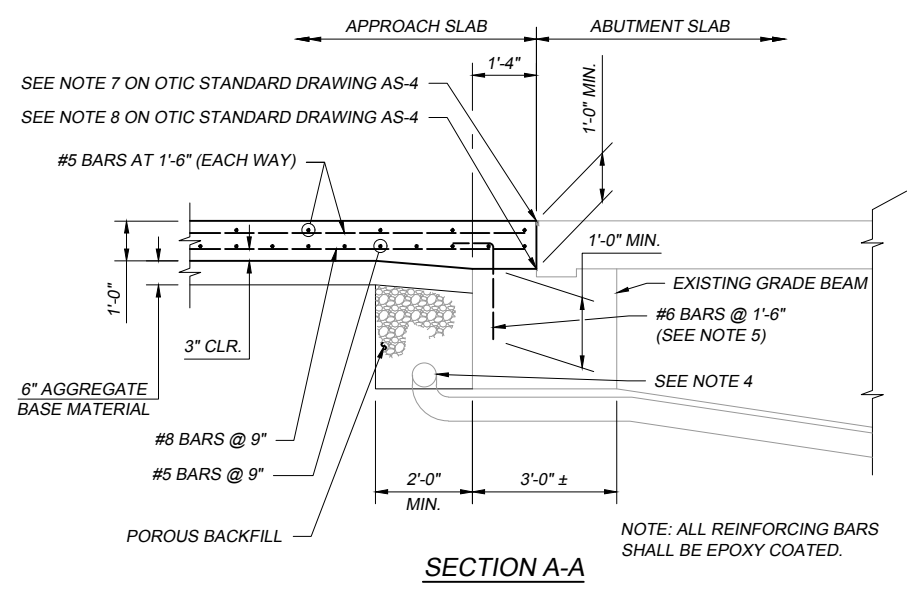
STANDARD DRAWING

REINFORCED CONCRETE APPROACH SLABS
FULL WIDTH REPLACEMENT

AS-4

1 / 1

OHIO TURNPIKE
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION



- NOTES:
- FOR LOCATIONS OF SECTIONS 'A-A', 'B-B', 'C-C' AND 'D-D' AND ADDITIONAL NOTES, SEE OTIC STANDARD DRAWING AS-4.
 - THE REMOVAL SHALL BE PER 202.05 OF THE ODOT CMS BUT THE COST OF THE REMOVAL SHALL BE INCIDENTAL TO THE COST OF SP 526.
 - DRILL 1 1/4" Ø HOLE INTO EXISTING CONCRETE. PARTIALLY FILL WITH NONSHRINKING GROUT BEFORE INSERTING DOWEL PER 510.03 AND THE COST IS INCIDENTAL TO THE COST OF SP 526 - APPROACH SLAB.
 - 6" DRAIN PIPE SHALL BE PERFORATED CORRUGATED PLASTIC PIPE PER SP 606, SLOPED AT 1/8" / FT. TO DRAIN. THE STONE SHALL BE IN ACCORDANCE WITH SP 606. THE 6" NON-PERFORATED DRAIN PIPE SHALL BE OUTLETTED AT A 2% PREFERRED MINIMUM SLOPE ONTO THE ADJACENT EMBANKMENT. PROVIDE A PRECAST REINFORCED CONCRETE OUTLET PER ODOT STANDARD DRAWING DM 1.1. COST IS INCIDENTAL TO THE COST OF ITEM 526, REINFORCED CONCRETE APPROACH SLABS (T=12").
 - DRILL HOLES INTO EXISTING CONCRETE GRADE BEAM AND PLACE NONSHRINK, NONMETALLIC GROUT AND DOWEL BARS IN ACCORDANCE WITH 510.03. COST IS INCIDENTAL TO THE COST OF ITEM 526, REINFORCED CONCRETE APPROACH SLABS (T=12").

AS-5_07-05-16.DWG: 10/24/16 - 2:11pm