

OHIO TURNPIKE AND  
INFRASTRUCTURE COMMISSION

ADDENDUM NO. 2

PROJECT NO. 39-16-01 (PART A)  
RIGHT TWO (2) LANES AND SHOULDER RECONSTRUCTION  
MILEPOST 107.3 TO MILEPOST 112.5  
ERIE COUNTY, OHIO

PROJECT NO. 39-16-01 (PART B)  
BRIDGE DECK REPAIR & REHABILITATION  
OHIO TURNPIKE OVER NS RAILROAD AND KELLY ROAD MILEPOST 117.3  
OHIO TURNPIKE OVER US ROUTE 250 MILEPOST 118.1  
ERIE COUNTY, OHIO

OPENING DATE: 2:00 P.M. (EASTERN), DECEMBER 21, 2015

ALL BIDS MUST BE ELECTRONICALLY SUBMITTED THROUGH BID EXPRESS

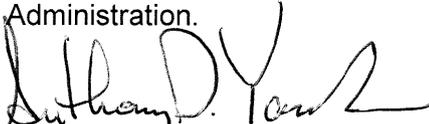
ATTENTION OF BIDDERS IS DIRECTED TO:

ANSWERS TO QUESTIONS RECEIVED THROUGH 4:00PM ON DECEMBER 10, 2015

MODIFICATIONS TO THE CONTRACT DOCUMENTS

Project 39-16-01A: Plan Sheet Nos. 6, 9 and 20 of 432.

Issued by the Ohio Turnpike and Infrastructure Commission on December 11, 2015. Issuance authorized by Anthony D. Yacobucci, Chief Engineer, and Mark R. Musson, Director of Contract Administration.

  
Anthony D. Yacobucci      12/10/15  
Date

  
Mark R. Musson      12/10/15  
Date

**OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION  
ADDENDUM NO. 2  
PROJECT NO. 39-16-01 (PART A & PART B)**

**QUESTIONS AND ANSWERS THROUGH 4:00 PM DECEMBER 10, 2015**

**Q#15 Part B of the plans provides partial details for the two applicable bridges. Can OTIC please make the entire existing plans and details for both Parts A and B bridges available?**

*A#15 The requested as-built drawings and historical rehabilitation construction plans are accessible through BidExpress for the sole purpose of sharing available information. In accordance with IB Art. 2.1.4, the Commission does not warrant that the drawings show the actual or anticipated conditions, and any use or reliance the Bidders place on such drawings are at the sole risk of the Bidder.*

**Q#16 Plan sheet 20, under the 252 Full Depth Sawing note, refers to plan sheet 15 “condition 1”. Plan sheet 6, note 2 (pavement joint detail), also says to refer to sheet 15. Sheet 15 shows only existing typical sections without any further information. Please review and revise these notes accordingly.**

*A#16 This Addendum No. 2 modifies Plan Sheets 6, 9 and 20 of 432 to remove references to the Pavement Joint Detail on Sheet 15 of 432.*

**MODIFIED CONTRACT DOCUMENTS**

With this Addendum No. 2, the Commission substitutes the enclosed materials for the following Plan Drawings:

Project 39-16-01A: Plan Sheet Nos. 6, 9 and 20 of 432.

Additions to the Plan Drawings are called out with a cloud and deletions are marked with a revision triangle as thus:



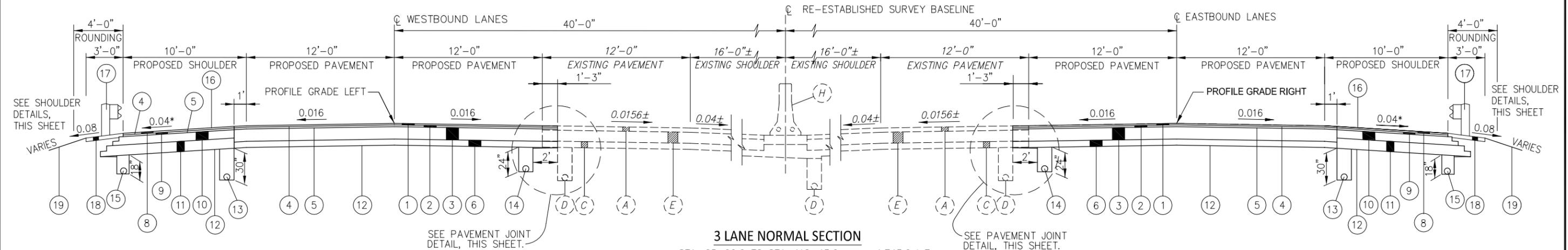
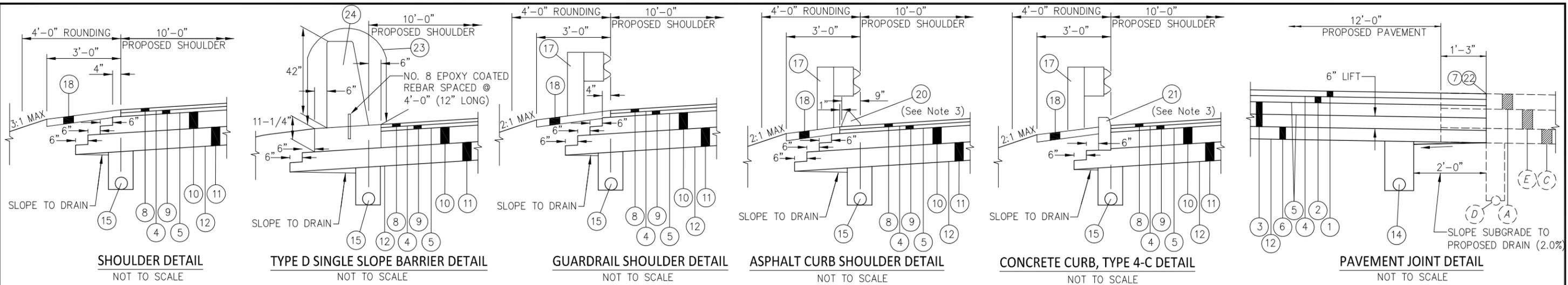
Bidders Acknowledgment of Addendum No. 2  
to Contract No. 39-16-01 (PART A & PART B):

\_\_\_\_\_  
(Firm Name)

\_\_\_\_\_  
(Signature)

\_\_\_\_\_  
(Printed Name)

Date: \_\_\_\_\_



**3 LANE NORMAL SECTION**

STA. 65+00.0 TO STA. 112+43.6 =	4,743.6 L.F.
STA. 149+35.5 TO STA. 159+75.1 =	1,039.6 L.F.
STA. 161+80.0 TO STA. 166+05.6 =	425.6 L.F.
STA. 169+23.5 TO STA. 198+39.6 =	2,916.1 L.F.
STA. 218+97.8 TO STA. 269+48.5 =	5,050.7 L.F.
STA. 270+96.6 TO STA. 297+89.8 =	2,693.2 L.F.
STA. 297+89.6 TO STA. 312+16.5 =	1,426.9 L.F.
STA. 338+54.0 TO STA. 339+00.0 =	46.0 L.F.

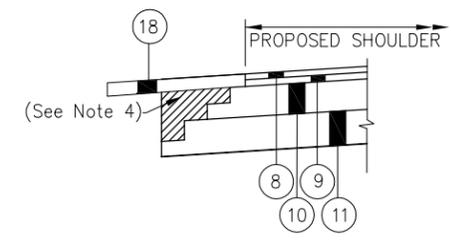
- NOTE 1: ALL EXPOSED SUBGRADE WILL HAVE SUBGRADE STABILIZATION PERFORMED USING ITEM 206 - CHEMICALLY STABILIZED SUBGRADE, AS PER PLAN. SEE GENERAL NOTES SHEET 19.
- NOTE 2: FOR ADDITIONAL INFO REGARDING THE PAVEMENT JOINT DETAIL, SEE SHEET 15.
- NOTE 3: ASPHALT/CONCRETE CURB SHALL BE SEALED PER THE REQUIREMENTS OF SP 400.
- NOTE 4: ADDITIONAL ITEM 203 EXCAVATION AND EMBANKMENT NECESSARY FOR THE PLACEMENT OF AGGREGATE BASE AND ASPHALT AGGREGATE BASE EDGE EXTENSIONS SHALL BE INCIDENTAL TO THE COST OF PLACING THESE MATERIALS.
- NOTE 5: FOR PAVEMENT AND SHOULDER WIDTHS AND CROSS SLOPES, SEE PAVEMENT ELEVATION DETAILS ON SHEETS 230-249.
- NOTE 6: ITEM 407 - TACK COAT (APPLIED AT 0.06 GAL./S.Y.) SHALL BE PLACED ON EACH LIFT OF ITEM SP 302.

\* TRANSITION SLOPE FROM 0.04 TO 0.016 AT APPROACH SLABS (L=65')

STA. 159+22.7 TO STA. 159+87.7 (LT)
STA. 158+97.5 TO STA. 159+62.5 (RT)
STA. 161+92.6 TO STA. 162+57.6 (LT)
STA. 161+67.4 TO STA. 162+32.4 (RT)
STA. 166+51.1 TO STA. 167+16.1 (LT)
STA. 164+30.1 TO STA. 164+95.1 (RT)
STA. 170+25.9 TO STA. 170+90.9 (LT)
STA. 168+16.9 TO STA. 168+81.9 (RT)
STA. 268+73.1 TO STA. 269+38.1 (LT)
STA. 268+93.9 TO STA. 269+58.9 (RT)
STA. 270+86.2 TO STA. 271+51.2 (LT)
STA. 271+07.0 TO STA. 271+72.0 (RT)

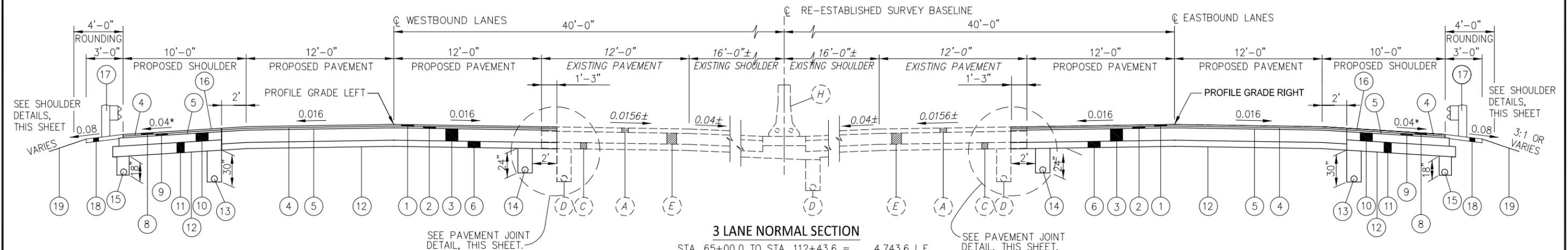
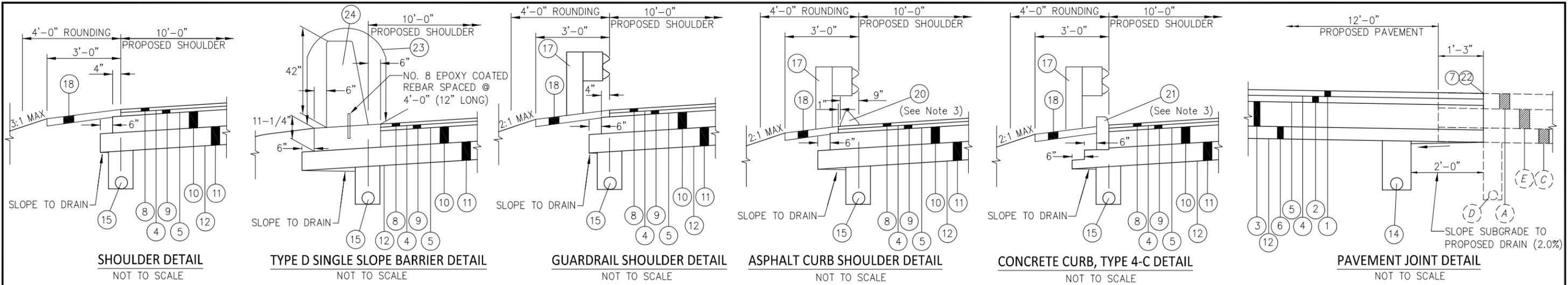
- ITEM LEGEND**
- |                                                                                                             |                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| 1 ITEM SP 404 ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED SLAG, PG 70-22 (FR) (1-1/2")                   | 16 ITEM SPECIAL SONIC NAP ALERT PATTERN (SNAP)                                                                               |
| 2 ITEM SP 402 ASPHALT CONCRETE BASE COURSE OR RECYCLED ASPHALT CONCRETE BASE COURSE, PG 70-22 (FR) (1-3/4") | 17 ITEM 606 GUARDRAIL, TYPE MGS                                                                                              |
| 3 ITEM SP 302 ASPHALT CONCRETE BASE, PG 64-22 (12") (2 EQUAL LIFTS)                                         | 18 ITEM SP 617 COMPACTED AGGREGATE, (T=6") (WITHOUT GUARDRAIL) ITEM SP 627 STONE SHOULDER PROTECTION (T=3") (WITH GUARDRAIL) |
| 4 ITEM SP 407 TACK COAT FOR INTERMEDIATE COURSE, AS PER PLAN (APPLIED @ 0.06 GAL./S.Y.), SEE SHEET 22.      | 19 ITEM 659 SEEDING AND MULCHING                                                                                             |
| 5 ITEM SP 407 TACK COAT, AS PER PLAN (APPLIED @ 0.075 GAL./S.Y.), SEE SHEET 22.                             | 20 ITEM 609 ASPHALT CONCRETE CURB, TYPE 1, PG 64-22                                                                          |
| 6 ITEM SP 304 AGGREGATE BASE (6")                                                                           | 21 ITEM 609 CURB, TYPE 4-C                                                                                                   |
| 7 ITEM 252 FULL DEPTH PAVEMENT SAWING (SEE NOTE 2)                                                          | 22 ITEM SP 404A JOINT SEALER (APPLIED TO VERTICAL FACE, EACH LIFT)                                                           |
| 8 ITEM SP 404 ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED STONE, PG 64-22 (1-1/2")                       | 23 ITEM SP 536 CONCRETE WEATHERPROOFING, BARRIERS AND BARRICADES, SEE SHEET 19.                                              |
| 9 ITEM SP 402 ASPHALT CONCRETE BASE COURSE OR RECYCLED ASPHALT CONCRETE BASE COURSE, PG 64-22 (1-3/4")      | 24 ITEM 622 CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN                                                              |
| 10 ITEM SP 302 ASPHALT CONCRETE BASE, PG 64-22 (T=8") (SHOULDER)                                            | 25 ITEM SP 526 CLASS C CONCRETE, APPROACH SLAB, USING TYPE I CEMENT (T=12")                                                  |
| 11 ITEM SP 304 AGGREGATE BASE (10") (SHOULDER) (2 EQUAL LIFTS)                                              | 26 ITEM SP 304 AGGREGATE BASE (12")                                                                                          |
| 12 ITEM 206 CHEMICALLY STABILIZED SUBGRADE, AS PER PLAN                                                     | 27 ITEM 204 SUBGRADE COMPACTION                                                                                              |
| 13 ITEM SP 605 6" SHALLOW PIPE UNDERDRAIN, WITH FABRIC WRAP (30")                                           | 28 ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE (2")                                                                          |
| 14 ITEM SP 605 6" SHALLOW PIPE UNDERDRAIN, WITH FABRIC WRAP (24")                                           | 29 ITEM SP 404 ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED SLAG, PG 70-22 (FR) (2")                                       |
| 15 ITEM SP 605 6" BASE PIPE UNDERDRAIN, WITH FABRIC WRAP (18")                                              | 30 ITEM SP 404 ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED STONE, PG 64-22 (2")                                           |

- EX. ITEM LEGEND**
- |                                                |
|------------------------------------------------|
| (A) ASPHALT CONCRETE (T=5"±)                   |
| (B) 10" REINFORCED CONCRETE PAVEMENT           |
| (C) 6"± AGGREGATE BASE                         |
| (D) 6" UNDERDRAIN                              |
| (E) 10"± BITUMINOUS AGGREGATE BASE             |
| (F) REINFORCED CONCRETE APPROACH SLAB (T=12"±) |
| (G) GUARDRAIL, TYPE 5                          |
| (H) CONCRETE BARRIER                           |



DESIGNED BY: MZP	CHECKED BY:
DATE: 1/23/15	DATE:
DRAWN BY: MZP	REVISION BY:
DATE: 1/26/15	DATE:
CAD FILE NAME: 14693-TYP.DWG	

ADDENDUM NO. 2		MZP 12/10/15	
NO.	REVISIONS	BY	DATE
<b>OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION</b>			
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION TYPICAL SECTIONS - ASPHALT ALTERNATE			
<b>CT Consultants</b> engineers   architects   planners			
DESIGNED: WDB	CHECKED: JMP	DATE: JAN. 2015	
DRAWN: MZP	IN CHARGE: WDB	SCALE: NO SCALE	
PROJECT 39-16-01A SHEET 6 OF 432			



**3 LANE NORMAL SECTION**

STA. 65+00.0 TO STA. 112+43.6 =	4,743.6 L.F.
STA. 149+35.5 TO STA. 159+75.1 =	1,039.6 L.F.
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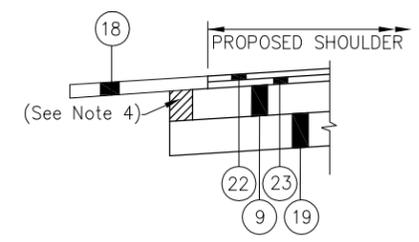
- NOTE 1: ALL EXPOSED SUBGRADE WILL HAVE SUBGRADE STABILIZATION PERFORMED USING ITEM 206 - CHEMICALLY STABILIZED SUBGRADE, AS PER PLAN. SEE GENERAL NOTES SHEET 19.
- NOTE 2: FOR ADDITIONAL INFO REGARDING THE PAVEMENT JOINT DETAIL, SEE SHEET 15.
- NOTE 3: ASPHALT/CONCRETE CURB SHALL BE SEALED PER THE REQUIREMENTS OF SP 400.
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- NOTE 5: FOR PAVEMENT AND SHOULDER WIDTHS AND CROSS SLOPES, SEE PAVEMENT ELEVATION DETAILS ON SHEETS 230-249.

**ITEM LEGEND**

- |                                                                                                             |                                                                                       |                                                                                       |                                                                                       |
|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| ① ITEM SP 404 ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED SLAG, PG 70-22 (FR) (1-1/2")                   | ⑩ ITEM SPECIAL ROLLER COMPACTED CONCRETE (10 1/2")                                    | ⑩ ITEM SPECIAL ROLLER COMPACTED CONCRETE (10 1/2")                                    | ⑩ ITEM SPECIAL ROLLER COMPACTED CONCRETE (10 1/2")                                    |
| ② ITEM SP 402 ASPHALT CONCRETE BASE COURSE OR RECYCLED ASPHALT CONCRETE BASE COURSE, PG 70-22 (FR) (1-3/4") | ⑪ ITEM SP 304 AGGREGATE BASE (8") (SHOULDER)                                          | ⑪ ITEM SP 304 AGGREGATE BASE (8") (SHOULDER)                                          | ⑪ ITEM SP 304 AGGREGATE BASE (8") (SHOULDER)                                          |
| ③ ITEM 305 CONCRETE BASE (12-1/2")                                                                          | ⑫ ITEM 206 CHEMICALLY STABILIZED SUBGRADE, AS PER PLAN                                | ⑫ ITEM 206 CHEMICALLY STABILIZED SUBGRADE, AS PER PLAN                                | ⑫ ITEM 206 CHEMICALLY STABILIZED SUBGRADE, AS PER PLAN                                |
| ④ ITEM SP 407 TACK COAT FOR INTERMEDIATE COURSE, AS PER PLAN (APPLIED @ 0.06 GAL./S.Y.), SEE SHEET 22.      | ⑬ ITEM SP 605 6" SHALLOW PIPE UNDERDRAIN, WITH FABRIC WRAP (30")                      | ⑬ ITEM SP 605 6" SHALLOW PIPE UNDERDRAIN, WITH FABRIC WRAP (30")                      | ⑬ ITEM SP 605 6" SHALLOW PIPE UNDERDRAIN, WITH FABRIC WRAP (30")                      |
| ⑤ ITEM SP 407 TACK COAT, AS PER PLAN (APPLIED @ 0.075 GAL./S.Y.), SEE SHEET 22.                             | ⑭ ITEM SP 605 6" SHALLOW PIPE UNDERDRAIN, WITH FABRIC WRAP (24")                      | ⑭ ITEM SP 605 6" SHALLOW PIPE UNDERDRAIN, WITH FABRIC WRAP (24")                      | ⑭ ITEM SP 605 6" SHALLOW PIPE UNDERDRAIN, WITH FABRIC WRAP (24")                      |
| ⑥ ITEM SP 304 AGGREGATE BASE (6")                                                                           | ⑮ ITEM SP 605 6" BASE PIPE UNDERDRAIN, WITH FABRIC WRAP (18")                         | ⑮ ITEM SP 605 6" BASE PIPE UNDERDRAIN, WITH FABRIC WRAP (18")                         | ⑮ ITEM SP 605 6" BASE PIPE UNDERDRAIN, WITH FABRIC WRAP (18")                         |
| ⑦ ITEM 252 FULL DEPTH PAVEMENT SAWING (SEE NOTE 2)                                                          | ⑯ ITEM 659 SEEDING AND MULCHING                                                       | ⑯ ITEM 659 SEEDING AND MULCHING                                                       | ⑯ ITEM 659 SEEDING AND MULCHING                                                       |
| ⑧ ITEM SP 404 ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED STONE, PG 64-22 (1-1/2")                       | ⑰ ITEM 606 GUARDRAIL, TYPE MGS                                                        | ⑰ ITEM 606 GUARDRAIL, TYPE MGS                                                        | ⑰ ITEM 606 GUARDRAIL, TYPE MGS                                                        |
| ⑨ ITEM SP 402 ASPHALT CONCRETE BASE COURSE OR RECYCLED ASPHALT CONCRETE BASE COURSE, PG 64-22 (1-3/4")      | ⑱ ITEM 622 CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN                        | ⑱ ITEM 622 CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN                        | ⑱ ITEM 622 CONCRETE BARRIER, SINGLE SLOPE, TYPE D, AS PER PLAN                        |
|                                                                                                             | ⑲ ITEM 659 SEEDING AND MULCHING                                                       | ⑲ ITEM 659 SEEDING AND MULCHING                                                       | ⑲ ITEM 659 SEEDING AND MULCHING                                                       |
|                                                                                                             | ⑳ ITEM 609 ASPHALT CONCRETE CURB, TYPE 1, PG 64-22                                    | ⑳ ITEM 609 ASPHALT CONCRETE CURB, TYPE 1, PG 64-22                                    | ⑳ ITEM 609 ASPHALT CONCRETE CURB, TYPE 1, PG 64-22                                    |
|                                                                                                             | ㉑ ITEM 609 CURB, TYPE 4-C                                                             | ㉑ ITEM 609 CURB, TYPE 4-C                                                             | ㉑ ITEM 609 CURB, TYPE 4-C                                                             |
|                                                                                                             | ㉒ ITEM SP 404A JOINT SEALER (APPLIED TO VERTICAL FACE, EACH LIFT)                     | ㉒ ITEM SP 404A JOINT SEALER (APPLIED TO VERTICAL FACE, EACH LIFT)                     | ㉒ ITEM SP 404A JOINT SEALER (APPLIED TO VERTICAL FACE, EACH LIFT)                     |
|                                                                                                             | ㉓ ITEM SP 536 CONCRETE WEATHERPROOFING, BARRIERS AND PARAPETS, SEE SHEET 19.          | ㉓ ITEM SP 536 CONCRETE WEATHERPROOFING, BARRIERS AND PARAPETS, SEE SHEET 19.          | ㉓ ITEM SP 536 CONCRETE WEATHERPROOFING, BARRIERS AND PARAPETS, SEE SHEET 19.          |
|                                                                                                             | ㉔ ITEM 526 CLASS C CONCRETE, APPROACH SLAB, USING TYPE I CEMENT (T=12")               | ㉔ ITEM 526 CLASS C CONCRETE, APPROACH SLAB, USING TYPE I CEMENT (T=12")               | ㉔ ITEM 526 CLASS C CONCRETE, APPROACH SLAB, USING TYPE I CEMENT (T=12")               |
|                                                                                                             | ㉕ ITEM SP 526 CLASS C CONCRETE, APPROACH SLAB, USING TYPE I CEMENT (T=12")            | ㉕ ITEM SP 526 CLASS C CONCRETE, APPROACH SLAB, USING TYPE I CEMENT (T=12")            | ㉕ ITEM SP 526 CLASS C CONCRETE, APPROACH SLAB, USING TYPE I CEMENT (T=12")            |
|                                                                                                             | ㉖ ITEM SP 304 AGGREGATE BASE (12")                                                    | ㉖ ITEM SP 304 AGGREGATE BASE (12")                                                    | ㉖ ITEM SP 304 AGGREGATE BASE (12")                                                    |
|                                                                                                             | ㉗ ITEM 204 SUBGRADE COMPACTION                                                        | ㉗ ITEM 204 SUBGRADE COMPACTION                                                        | ㉗ ITEM 204 SUBGRADE COMPACTION                                                        |
|                                                                                                             | ㉘ ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE (2")                                    | ㉘ ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE (2")                                    | ㉘ ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE (2")                                    |
|                                                                                                             | ㉙ ITEM SP 404 ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED SLAG, PG 70-22 (FR) (2") | ㉙ ITEM SP 404 ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED SLAG, PG 70-22 (FR) (2") | ㉙ ITEM SP 404 ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED SLAG, PG 70-22 (FR) (2") |
|                                                                                                             | ㉚ ITEM SP 404 ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED STONE, PG 64-22 (2")     | ㉚ ITEM SP 404 ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED STONE, PG 64-22 (2")     | ㉚ ITEM SP 404 ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED STONE, PG 64-22 (2")     |

**EX. ITEM LEGEND**

- (A) ASPHALT CONCRETE (T=5"±)
- (B) 10" REINFORCED CONCRETE PAVEMENT
- (C) 6"± AGGREGATE BASE
- (D) 6" UNDERDRAIN
- (E) 10"± BITUMINOUS AGGREGATE BASE
- (F) REINFORCED CONCRETE APPROACH SLAB (T=12"±)
- (G) GUARDRAIL, TYPE 5
- (H) CONCRETE BARRIER



\* TRANSITION SLOPE FROM 0.04 TO 0.016 AT APPROACH SLABS (L=65')

STA. 159+22.7 TO STA. 159+87.7 (LT)	STA. 159+62.5 (RT)
STA. 158+97.5 TO STA. 159+62.5 (RT)	STA. 162+57.6 (LT)
STA. 161+92.6 TO STA. 162+57.6 (LT)	STA. 162+32.4 (RT)
STA. 161+67.4 TO STA. 162+32.4 (RT)	STA. 167+16.1 (LT)
STA. 166+51.1 TO STA. 167+16.1 (LT)	STA. 164+30.1 TO STA. 164+95.1 (RT)
STA. 164+30.1 TO STA. 164+95.1 (RT)	STA. 170+25.9 TO STA. 170+90.9 (LT)
STA. 170+25.9 TO STA. 170+90.9 (LT)	STA. 168+16.9 TO STA. 168+81.9 (RT)
STA. 168+16.9 TO STA. 168+81.9 (RT)	STA. 268+73.1 TO STA. 269+38.1 (LT)
STA. 268+73.1 TO STA. 269+38.1 (LT)	STA. 268+93.9 TO STA. 269+58.9 (RT)
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DESIGNED BY: MZP	CHECKED BY:
DATE: 1/23/15	DATE:
DRAWN BY: MZP	REVISION BY:
DATE: 1/26/15	DATE:
CAD FILE NAME: 14693-TYP.DWG	

ADDENDUM NO. 2		MZP 12/10/15	
NO.	REVISIONS	BY	DATE
<b>OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION</b>			
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION TYPICAL SECTIONS - CONCRETE ALTERNATE			
<b>CT Consultants</b> engineers   architects   planners			
DESIGNED: WDB	CHECKED: JMP	DATE: JAN. 2015	
DRAWN: MZP	IN CHARGE: WDB	SCALE: NO SCALE	
PROJECT 39-16-01A SHEET 9 OF 432			

**PAVEMENT (CONTINUED)**

**ITEM SP 407 - TACK COAT, AS PER PLAN  
ITEM SP 407 - TACK COAT FOR INTERMEDIATE COURSE, AS PER PLAN (CONTINUED)**

EQUIPMENT: ALL REQUIREMENTS OF 407.03 APPLY. SEE MANUFACTURER'S REPRESENTATIVE FOR CORRECT DISTRIBUTOR SETTINGS. THOROUGHLY CLEAN ALL EQUIPMENT IF CATIONIC EMULSION WAS PREVIOUSLY USED.

WEATHER LIMITATIONS: ALL REQUIREMENTS OF 407.04 APPLY.

PREPARATION OF SURFACE: ALL REQUIREMENTS OF 407.05 APPLY.

APPLICATION OF ASPHALT MATERIAL: UNIFORMLY APPLY THE ASPHALT MATERIAL WITH A DISTRIBUTOR PER THE REQUIREMENTS OF 407.06 EXCEPT AS NOTED. IF PRODUCT IS STORED FOR AN EXTENDED PERIOD OF TIME, PRIOR TO APPLICATION, AGITATE OR GENTLY CIRCULATE THE MATERIAL. ALL NOZZLES AND SPRAY PATTERNS SHALL BE IDENTICAL TO ONE ANOTHER ALONG THE DISTRIBUTOR SPRAY BAR. THE ANGLE OF THE NOZZLE SHOULD BE A 15 TO 30 DEGREE ANGLE TO THE SPRAY BAR AXIS TO MAXIMIZE OVERLAP OR AS RECOMMENDED BY THE NOZZLE MANUFACTURER. CONTACT THE MANUFACTURER'S REPRESENTATIVE FOR REQUIRED SPRAY NOZZLE SIZE, AND DISTRIBUTOR AND NOZZLE SETTINGS. APPLY AT A RATE OF 0.075 GALLONS PER SQUARE YARD TO ALL MILLED SURFACES AND AT A RATE OF 0.06 GALLONS PER SQUARE YARD TO ALL SMOOTH PAVED AND BETWEEN COURSES OF ASPHALT. RECOMMENDED APPLICATION TEMPERATURE IS 160F TO 180F. DO NOT EXCEED 180F. DILUTION IS NOT ALLOWED.

THE ENGINEER AND MANUFACTURER'S REPRESENTATIVE WILL APPROVE RATE OF APPLICATION, TEMPERATURE, DISTRIBUTOR SETTINGS, AND AREAS TO BE TREATED BEFORE APPLICATION OF THE TACK COAT. THE ENGINEER WILL DETERMINE THE ACTUAL APPLICATION IN GALLONS PER SQUARE YARD BY A CHECK ON THE PROJECT. THE APPLICATION IS CONSIDERED SATISFACTORY WHEN THE MATERIAL IS APPLIED UNIFORMLY WITH NO VISIBLE EVIDENCE OF STREAKING OR RIDGING AND THE APPLICATION RATE IS ±10% OF THE SPECIFIED RATE.

METHOD OF MEASUREMENT: ALL REQUIREMENTS OF 407.07 APPLY.

BASIS OF PAYMENT: ALL REQUIREMENTS OF 407.08 APPLY.

**ITEM 302 - BITUMINOUS AGGREGATE BASE, PG 64-22 (2 EQUAL LIFTS)**

THE CONTRACTOR SHALL BE REQUIRED TO CONSTRUCT THIS 302 ITEM IN TWO (2) EQUAL LIFTS. THE CONTRACTOR SHALL ALSO BE REQUIRED TO APPLY ITEM SP 407 - TACK COAT FOR INTERMEDIATE COURSE, AS PER PLAN (APPLIED @ 0.075 GAL./SQ.YD.) PRIOR TO CONSTRUCTING THE SECOND LIFT.

**ITEM 252 - FULL DEPTH PAVEMENT SAWING**

THE FOLLOWING ITEM HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE BY THE ENGINEER TO MAKE TRANSVERSE SAW CUTS WHERE PROPOSED FULL DEPTH PAVEMENT WILL MEET EXISTING PAVEMENT AT THE PROJECT LIMITS, INTERCHANGE RAMP AND EXISTING BRIDGES.

~~THIS ITEM SHALL ALSO BE USED BY THE ENGINEER TO SAW CUT THE EXISTING MAINLINE PAVEMENT AS OUTLINED IN THE CONDITION NO. 1 ON SHEET 15 OF THE PLANS.~~

ITEM 252 - FULL DEPTH PAVEMENT SAWING 15,000 FT

**ITEM SP 403 - ASPHALT CONCRETE LEVELING COURSE, PG 70-22**

THE FOLLOWING CONTINGENCY QUANTITY FOR ASPHALT CONCRETE LEVELING COURSE HAS BEEN INCLUDED IN THE PLANS FOR USE BY THE CHIEF ENGINEER FOR ADJUSTMENTS TO THE ROADWAY PROFILE IN ORDER TO ENSURE THAT THERE IS A SMOOTH TRANSITION BETWEEN THE PROPOSED SURFACE AND INTERMEDIATE ASPHALT COURSES AND THE PROPOSED APPROACH SLABS. THE LEVELING COURSE SHALL BE PLACED PRIOR TO THE INSTALLATION OF ANY ASPHALT INTERMEDIATE OR SURFACE COURSE TO ADJUST THE PROFILE OF THE ROADWAY. THE THICKNESS OF THIS ASPHALT CONCRETE LEVELING COURSE IS ANTICIPATED TO VARY FROM 0" MINIMUM TO 1" MAXIMUM WITHIN SEVENTY FIVE (75) FEET OF THE APPROACH SLABS.

ALL EQUIPMENT, MATERIALS AND LABOR REQUIRED TO PERFORM THE WORK OUTLINED ABOVE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM SP 403 - ASPHALT CONCRETE LEVELING COURSE, PG 70-22.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER:

ITEM SP 403 - ASPHALT CONCRETE LEVELING COURSE, PG 70-22 285 CU. YDS.

**ITEM SP 526 - CLASS C CONCRETE, APPROACH SLAB, AS PER PLAN**

THIS WORK SHALL BE IN ACCORDANCE WITH SP526. IN ADDITION TO THIS WORK, REMOVE THE EXISTING UNDERDRAINS AND EXCAVATE THE POROUS BACKFILL. THE EXISTING OUTLET THROUGH THE ABUTMENT SHALL BE PLUGGED WITH NON-SHRINK GROUT.

CONSTRUCT THE REPLACEMENT UNDERDRAIN PIPE, CONNECTIONS AND POROUS BACKFILL AS SHOWN AND NOTED ON THE STANDARD DRAWINGS. PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID PER SQUARE YARD FOR ITEM SP526 - CLASS C CONCRETE, APPROACH SLAB, USING TYPE I CEMENT, AS PER PLAN, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THIS WORK.

**TRAFFIC CONTROL**

**ITEM 642 - PERMANENT PAVEMENT MARKINGS**

PERMANENT PAVEMENT MARKING LOCATIONS SHALL BE DETERMINED BY REFERENCING THE BASE PAVEMENT JOINTS, AS SHOWN ON SHEET 347.

**ITEM SP 621 - RAISED PAVEMENT MARKER**

THIS ITEM SHALL BE INSTALLED IN ACCORDANCE WITH SP 621 WITH THE SPACING PER STANDARD DRAWING RPM-1

**ITEM SP 626 - BARRIER REFLECTORS**

FOLLOWING COMPLETION OF THE PROJECT, NEW BARRIER REFLECTORS SHALL BE INSTALLED ON THE EXISTING MEDIAN WALL FROM THE BEGINNING OF THE PROJECT AT MILE POST (MP) 106.62 (STA. 27+10) TO MILE POST (MP) 112.77 (STA. 353+04). BARRIER REFLECTOR SPACING SHALL CONFORM TO SP 626. MATERIAL SPECIFICATIONS SHALL CONFORM TO SP 626.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE CHIEF ENGINEER:

SP 626 - BARRIER REFLECTOR, TYPE B 815 EACH

**OTIC ANNUAL PAVEMENT MARKING OPERATIONS - LONG LINE QUANTITIES**

THE CONTRACTOR SHALL PERFORM THE ANNUAL PAVEMENT MARKING INSTALLATION FOR EACH OF THE TWO (2) CONSTRUCTION SEASONS OF THIS PROJECT.

PRIOR TO IMPLEMENTING CONTRA FLOW DURING THE FIRST CONSTRUCTION SEASON, THE CONTRACTOR SHALL INSTALL PERMANENT PAVEMENT MARKINGS FOR THE NON-CONTRA FLOW OUTSIDE EDGE LINE AND THE OUTSIDE LANE LINES FROM MP 107.3 TO MP 112.50. ALL REMAINING EASTBOUND AND WESTBOUND LANE LINES AND EDGE LINES, INCLUDING THE INTERCHANGE PAVEMENT MARKINGS, SHALL BE COMPLETED BEFORE THE CONCLUSION OF THE FIRST CONSTRUCTION SEASON FROM MP 107.3 TO MP 112.50.

PRIOR TO IMPLEMENTING CONTRA FLOW DURING THE SECOND CONSTRUCTION SEASON, THE CONTRACTOR SHALL INSTALL PERMANENT PAVEMENT MARKINGS FOR THE NON-CONTRA FLOW OUTSIDE EDGE LINE AND THE OUTSIDE LANE LINES FROM MP 107.3 TO MP 112.50. ALL REMAINING EASTBOUND AND WESTBOUND LANE LINES AND EDGE LINES, INCLUDING THE INTERCHANGE PAVEMENT MARKINGS, SHALL BE COMPLETED BEFORE THE CONCLUSION OF THE SECOND CONSTRUCTION SEASON FROM MP 107.3 TO MP 112.50.

QUANTITIES FOR THE ABOVE NOTED WORK HAVE BEEN INCLUDED IN THE TRAFFIC CONTROL SUBSUMMARIES AND CARRIED TO THE GENERAL SUMMARY TO ADDRESS THIS ANNUAL PAVEMENT MARKING WORK.

**ITEM 630 - SIGN ERECTED, FLAT SHEET, AS PER PLAN**

THIS ITEM SHALL BE AS OUTLINED IN 630 EXCEPT THAT ALL SIGNS AND SUPPORTS TO BE INSTALLED SHALL BE PROVIDED BY THE COMMISSION. THE CONTRACTOR SHALL CONTACT THE CHIEF ENGINEER TO ARRANGE FOR PICKUP OF THE SIGN AND POST MATERIALS FOR THE PROJECT. ALL SIGNS SHALL BE INSPECTED BY THE COMMISSION STAFF IN THE PRESENCE OF THE CONTRACTOR PRIOR TO LOADING OF PROVIDED MATERIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFE TRANSPORTATION OF THE MATERIALS PROVIDED TO THE JOB SITE. UPON ARRIVAL AT THE JOB SITE, THE TRANSPORTED SIGNING MATERIALS SHALL BE INSPECTED BY THE COMMISSION PERSONNEL TO ENSURE THAT NO DAMAGE OCCURRED DURING TRANSPORT. COSTS ASSOCIATED WITH THE PICK-UP OF THE SIGNS AND SUPPORTS, THE TRANSPORTATION TO THE PROJECT SITE AND ANY STORAGE COSTS UNTIL ERECTION SHALL BE CONSIDERED INCIDENTAL TO THE ITEM NECESSITATING THE WORK. THIS ITEM SHALL INCLUDE ALL LABOR AND MATERIAL COSTS NECESSARY TO INSTALL THE SIGNS AS SHOWN IN THE PLANS.

ALL COSTS ASSOCIATED WITH THIS ITEM SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 630 -SIGN ERECTED, FLAT SHEET, AS PER PLAN, EACH.

**ITEM 630 - SIGN ERECTED, EXTRUSHEET, AS PER PLAN**

THIS ITEM SHALL BE AS OUTLINED IN ITEM 630 EXCEPT THAT ALL EXTRUSHEET SIGNS TO BE REPLACED AS A PART OF THE PROJECT WILL BE PROVIDED BY THE COMMISSION. THE CONTRACTOR SHALL CONTACT THE CHIEF ENGINEER TO ARRANGE FOR A PICK-UP OF THE EXTRUSHEET SIGNS TO BE ERECTED. ALL EXTRUSHEET SIGNS PROVIDED SHALL BE INSPECTED BY THE COMMISSION STAFF IN THE PRESENCE OF THE CONTRACTOR PRIOR TO LOADING OF THE PROVIDED MATERIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFE TRANSPORTATION OF THE MATERIALS PROVIDED TO THE JOB SITE. UPON ARRIVAL AT THE JOB SITE, THE TRANSPORTED SIGNING MATERIALS SHALL BE INSPECTED BY THE COMMISSION PERSONNEL TO ENSURE THAT NO DAMAGE OCCURRED DURING TRANSPORT. COSTS ASSOCIATED WITH THE PICK-UP OF THE SIGNS AND SUPPORTS, THE TRANSPORTATION TO THE PROJECT SITE AND ANY STORAGE COSTS UNTIL ERECTION SHALL BE CONSIDERED INCIDENTAL TO THE ITEM NECESSITATING THE WORK.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE 17 FOOT MINIMUM CLEARANCE BETWEEN THE LANES OF THE OHIO TURNPIKE AND THE BOTTOM OF OVERHEAD SIGNS. ALL NEW SIGNS SHALL BE INSTALLED SUCH THAT A MINIMUM VERTICAL CLEARANCE IS PROVIDED ONCE THE SIGN IS INSTALLED AS SHOWN ON ODOT STANDARD CONSTRUCTION DRAWINGS. GROUND MOUNTED SIGNS SHALL BE INSTALLED AS PER TC-42.10.

THE CONTRACTOR SHALL PROVIDE MOUNTING CLIPS PER 2013 ODOT CONSTRUCTION AND MATERIAL SPECIFICATION ITEM 630, ODOT SUPPLEMENTAL SPECIFICATION 800 (07/19/2013), AND ODOT SUPPLEMENTAL SPECIFICATION 992 (04/18/2014).

THIS ITEM SHALL INCLUDE ALL LABOR AND MATERIAL COSTS NECESSARY TO INSTALL THE SIGNS AS SHOWN IN THE PLANS, AND SHALL INCLUDE BUT NOT BE LIMITED TO ALL LABOR, TEMPORARY TRAFFIC CONTROL, SIGN BACKING ASSEMBLIES, AND HARDWARE NECESSARY TO INSTALL THE SIGNS TO THE NEW OR EXISTING STRUCTURAL BEAM SUPPORTS.

ALL COSTS ASSOCIATED WITH THIS ITEM SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 630 - SIGN ERECTED, EXTRUSHEET, AS PER PLAN, EACH.

**ITEM 631 - REMOVAL OF SIGN LIGHTING**

THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL SIGN LIGHTING COMPONENTS FROM THE LUMINAIRES DOWN TO THE DISCONNECT SWITCH INCLUDING THE DISCONNECT SWITCH. ITEMS REMOVED AND DISPOSED OF SHOULD INCLUDE BUT NOT BE LIMITED TO LUMINAIRES AND SUPPORT ARMS, STRUCTURAL STEEL TUBE, AND SIGN WIRING.

TWO WEEKS PRIOR TO REMOVAL OF THE EXISTING SIGN THE CONTRACTOR SHALL CONTACT MIKE BERGSTROM AT 440-821-3368 OR Michael.bergstrom@ohioturnpike.org. COMMISSION PERSONNEL WILL REMOVE THE DISCONNECT AND SIGN SERVICE. THEY WILL ALSO REMOVE ANY REMOTE BALLAST AND THEIR HOUSING.

ALL EQUIPMENT, MATERIALS, AND LABOR REQUIRED TO PERFORM THE WORK OUTLINED ABOVE SHALL BE INCLUDED IN THE UNIT BID PRICE OF EACH FOR ITEM 630-REMOVAL OF SIGN LIGHTING.

**ITEM 620 - REMOVAL OF DELINEATOR**

THIS ITEM SHALL BE AS OUTLINED IN ITEM 620. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING DELINEATORS LOCATED WITHIN THE PROJECT LIMITS FROM MP 107.3 TO MP 112.5.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE TRAFFIC CONTROL GENERAL SUMMARY FOR USE AS DIRECTED BY THE CHIEF ENGINEER:

ITEM 620 - REMOVAL OF DELINEATOR 104 EACH

**ITEM 620 - DELINEATOR, POST MOUNTED, AS PER PLAN**

THIS ITEM SHALL BE AS OUTLINED IN 620 EXCEPT THAT ALL DELINEATORS AND SUPPORTS TO BE INSTALLED SHALL BE PROVIDED BY THE COMMISSION. THE CONTRACTOR SHALL CONTACT THE CHIEF ENGINEER TO ARRANGE FOR PICKUP OF THE DELINEATORS AND POST MATERIALS FOR THE PROJECT. ALL DELINEATORS SHALL BE INSPECTED BY COMMISSION STAFF IN THE PRESENCE OF THE CONTRACTOR PRIOR TO LOADING OF PROVIDED MATERIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFE TRANSPORTATION OF THE MATERIALS PROVIDED TO THE JOB SITE. UPON ARRIVAL AT THE JOB SITE, THE TRANSPORTED DELINEATOR MATERIALS SHALL BE INSPECTED BY COMMISSION PERSONNEL TO ENSURE THAT NO DAMAGE OCCURRED DURING TRANSPORT. COSTS ASSOCIATED WITH THE PICK- UP OF THE DELINEATORS AND SUPPORTS, THE TRANSPORTATION TO THE PROJECT SITE AND ANY STORAGE COSTS UNTIL ERECTED SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. THIS ITEM SHALL INCLUDE ALL LABOR AND EQUIPMENT COSTS NECESSARY TO INSTALL THE DELINEATORS AS SHOWN IN THE PLANS.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE TRAFFIC CONTROL GENERAL SUMMARY TO BE USED EVERY 0.1 MILES IN BETWEEN THE TENTH MARKERS:

ITEM 620 - DELINEATOR, POST MOUNTED, AS PER PLAN

DESIGNED BY: MZP	CHECKED BY:
DATE: 1/23/15	DATE:
DRAWN BY: MZP	REVISD BY:
DATE: 1/26/15	DATE:
CAD FILE NAME: 14693-GN01.DWG	

ADDENDUM NO. 2		MZP	12/10/15
NO.	REVISIONS	BY	DATE
<b>OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION</b>			
OHIO TURNPIKE EASTBOUND AND WESTBOUND RIGHT TWO LANES & SHOULDER RECONSTRUCTION GENERAL NOTES			
 <small>engineers   architects   planners</small> <small>4400 Denby Court, Mentor, Ohio 44060</small> <small>440.252.0000 www.ctconsultants.com</small>			
DESIGNED: WDB	CHECKED: JMP	DATE: APRIL 2015	
DRAWN: MZP	IN CHARGE: WDB	SCALE: NO SCALE	
PROJECT 39-16-01A SHEET 20 OF 432			