OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

ADDENDUM NO. 2

PROJECT NO. 39-17-01 MAINLINE PAVEMENT RECONSTRUCTION MILEPOST 90.00 TO MILEPOST 95.90, EASTBOUND SANDUSKY COUNTY, OHIO

OPENING DATE: 2:00 P.M. (EASTERN TIME), OCTOBER 28, 2016

ALL BIDS MUST BE ELECTRONICALLY SUBMITTED THROUGH BID EXPRESS

ATTENTION OF BIDDERS IS DIRECTED TO:

QUESTIONS AND ANSWERS THROUGH 4:00 PM ON OCTOBER 24, 2016

MODIFICATIONS TO THE CONTRACT DOCUMENTS

Plan Sheets: 9, 11, 18, 19, 93, 94, 95, 96, 104, 106, 107, 240, 241, 242, 243, 244, 245, 246, 249 and 257 of 272

Bid Schedule of Items and Estimated Quantities Worksheet

Issued by the Ohio Turnpike and Infrastructure Commission on October 25, 2016. Issuance authorized by Anthony D. Yacobucci, Chief Engineer, and Mark R. Musson, Director of Contracts Administration.

Anthony D. Yacobucci

Date

Mark R. Musson

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION ADDENDUM NO. 2 PROJECT NO. 39-17-01

QUESTIONS AND ANSWERS THROUGH 4:00PM ON OCTOBER 24, 2016

- Q#21 Bid item 117- Shoulder Preparation, As Per Plan: since there is a new bid item (bid item 13- Embankment with RACP, As Per Plan), will there be need for performing the shoulder preparation (as described on plan sheet 9) in the areas where this item is to be placed since it will be covered with either one of the shoulder stone items?
- A#21 This Addendum No. 2 removes Item 617 Shoulder preparation from the Plans and Reference No. 117 on the Bid Schedule. This Addendum No. 2 adds Item 209 Linear Grading, As Per Plan General Note to Plan Sheet 9 of 272, the General Summary Plan Sheet 104 of 272 and Reference No. 23A Item 209 Linear Grading, As Per Plan, 5.45 Miles on the Bid Schedule.
- Q#25 Bid Item 208, Special Reposition Elastomeric Expansion Bearing including Masonry Plate: this item requires the fillet welds between the bearing's upper load plate to be removed and then rewelded after the beam has been jacked and the bearing allowed to return to its undeformed state. What if any paint repair/touchup will be required on these 6 each beams/bearings?
- A#25 Refer to the General Note on Plan Sheet 248 of 272 under "ITEM SPECIAL REPOSITION ELASTOMERIC EXPANSION BEARING INCLUDING MASONRY PLATE (CONT.)" which provides as follows:

"WELDING AND CUTTING WORK TO BE PERFORMED IN A MANNER THAT CONTROLS THE PLATE TEMPERATURE AT THE ELASTOMER BONDED SURFACES TO A TEMPERATURE NOT TO EXCEED 300 DEGREES F, AS DETERMINED BY THE USE OF TEMPERATURE MONITORING DEVICES. ONCE THE BEARING HAS BEEN REPOSITIONED, THE MASONRY PLATE, LOAD PLATE, BEAM FLANGE AREA ADJACENT TO THE BEARING AND ANCHOR BOLTS SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH SP514A AND BE INCIDENTAL TO THIS ITEM. AVOID PAINTING THE SURFACE OF THE ELASTOMERIC PORTION OF THE BEARING BY MASKING."

- Q#26 Bid item 101- Partial Depth Pavement Repair: please clarify the material to be used in the 251 Partial Depth Repairs that are to be performed Pre-Phase. The note on Sheet 11 states to use material specified in 251.03 of the ODOT C&MS but there is no asphalt material type specified. Typically this is given in the plan note for this item.
- A#26 This Addendum No. 2 clarifies the asphalt materials to be used in the Pavement Repairs" General Note on Plan Sheet 11 of 272. The surface coarse shall be Item SP 404, Asphalt Concrete Surface Course Using Crushed Slag, PG 64-22 and the

intermediate course shall be Item SP 402 – Asphalt Concrete Base Course or Recycled Asphalt Concrete Base Course, PG 64-22.

- Q#28 In looking at plan sheet 240/272 under notes # 3 it says "removal of existing approach slab is included under item 202- approach slab removed ". I cannot find a bid item for this in the proposal? This note is found on all sheets showing the approach slabs for bridges requiring removal and replacement. Please address.
- A#28 The removal of Approach Slabs is included in the Item 202 Pavement Removed calculation as shown on Plan Sheet 110 of 272. This Addendum No. 2 revises the note 4 on Plan Sheets 240 through 246 of 272 from "Item 202 Approach Slab Removed" to "Item 202 Pavement Removed".
- Q#29 Addendum 1, questions Q#3 and Q#4 addressed bid items 77 and 78 and were answered that the quantities would be doubled. The revised bid form didn't show the quantity revisions. Can the owner/engineer please make the revisions to the proposal and/or electronic bid form?
- A#29 Yes. This Addendum No. 2 revises the quantities for Reference Nos. 77 and 78 as described in Addendum No. 1.
- Q#30 Addendum #1, Q#10 revises the description for reference #51 to "Topsoil Furnished and Placed (For Slopes)" as well as the plan note on sheet 15. Is it the owner's intent and assumption that there is no available onsite topsoil material and that all topsoil must be furnished and imported from offsite sources?

A#30 Yes.

- Q#31 Plan sheets 93-96 provide details of the crossover at MP 90.0; Please clarify the intent of the 2nd paragraph. If it is required that part of the existing asphalt be removed and replaced to repair, should this be covered under Item 251 Partial Depth Repair or will asphalt wedging be required for smooth transitions for traffic?
- A#31 This Addendum No. 2 removes "This Item shall also be used for crossover pavement repairs, and as directed by the Chief Engineer" from the "Item 614 Asphalt Concrete for Maintaining Traffic" General Note on Plan Sheet 19 of 272 and removes the same second Paragraph of the Notes on Plan Sheets 93 through 96 of 272.
- Q#32 In looking at plan sheet 240/272 under notes # 3 it says "removal of existing approach slab is included under item 202 approach slab removed ". I cannot find a bid item for this in the proposal? This note is found on all sheets showing the approach slabs for bridges requiring removal and replacement. Please address.
- A#32 Please see the response to Q#28.

- Q#33 Plan sheet 18 "Guardrail Delineation" note- there are two consecutive sentences for which one says to use one-way delineators from MP 90.0 to 95.9 and the other says to use two-way delineators for the same distance. Does the owner want one-way or two-way delineators?
- A#33 One-way delineators shall be used for guardrail delineation. This Addendum No. 2 revises the "Guardrail Delineation" General Note on Plan Sheet 18 of 272.
- Q#34 Standard drawing AS-1 shows 6" underdrains which are under the approaches and precast outlets to be included per note 13. The approach slab drawings on sheet 240-246 don't show these underdrains and outlets, and from looking at plan sheets, the proposed underdrains for the roadway either start or outlet short of these approach slabs, nor does AS-1 or ODOT DM-1.1 show a detail. Are underdrains and outlets to be included at the approach slabs or not? If they are, then please provide a detail as to depth, width, and length required.
- A#34 Yes, these items are included with the cost of Item 526 Reinforced Concrete Approach Slab (12") in accordance with OTIC Standard Drawing AS-1, Note 13. The plan view for the Installation of the 6" underdrain is shown on OTIC Standard Drawing AS-1 and the profile is shown on OTIC Standard Drawing AS-2. No additional information is needed.
- Q#35 Addendum 1 added a note to plan sheet 16 for "Warranty 1 Year Anniversary Walk Through MOT". Proposal sheets OTC-GC-56 through GC-63 provide information on contractor payments and retainage. The owner's walk-through with contractor-provided MOT will occur one year after the completion dates of the project (substantial and final). Will the owner still pay all retainage as per the general conditions or will the owner withhold retainage to cover this new requirement, and if so, will the owner please set up a separate pay item for this as to not withhold retainage for all other work completed?
- A#35 Yes, the retainage will be released in accordance with the General Conditions. The Commission will not hold retainage pending the Warranty Walk Through.
- Q#36 Sheet 247/272 note for Item 601 Crushed Aggregate Slope Protection, APP says the commission will measure crushed aggregate by the number of cubic yards accepted in place. The bid item is in square yards and also listed on sheet 248 in square yards. Since the thickness of material varies, it makes sense that the bid item would be paid by the cubic yards. Please clarify how it is to be measured and adjust the bid item as necessary.
- A#36 This Addendum No. 2 modifies Item 601 Crushed Aggregate Slope Protection, APP measurement from Square Yards to Cubic Yards. The quantity has been modified on Plan Sheets 249 and 257 of 272 and on the Bid Schedule. The average thickness of the slope protection is 18", therefore the assumed quantity is 120 CY, 60 CY for the Westbound side and 60 CY for the Eastbound side.

- Q#37 Bid item 14 Excavation Including Embankment, As Per Plan: plan sheet insert 1 summary gives volumes and parameters. Note that the contractor will have to excavate the shear key for which the backfilling with rock is paid separately. This will result in the excavation being a greater quantity than the embankment. Will payment for the bid item be based on the amount of excavation removed or the volume of embankment going back into the slopes?
- A#37 The excavation for the Shear key is incidental to the pay item for granular embankment, As Per Plan. The Excavation including Embankment, As Per Plan is measured and paid by the amount of excavation removed. This quantity is determined by surveyed cross sections.
- Q#38 In the specifications SS861 (proposal page 427), there are six pages of notes and language about "plan preparation with proprietary geogrid as an alternate" giving options for the material as well as depth of cut and types of granular material. Plan sheet 13 and bid item 43 specify a particular geogrid. Which of these specifications/plan notes prevails on this project?
- A#38 Follow Plan Sheet No. 13 of 272 and Reference No. 43 for this Project.
- Q#39 It has been brought to our attention the Nexus pipeline may be scheduled for construction in 2017. Is it possible to verify this and also verify that the proposed location for the pipeline runs parallel to the turnpike on the south side of the turnpike Right-of-way limits?
- A#39 At this time, no agreement has been made between Nexus and the Commission. If and when the Commission authorizes a third party's use of the right-of-way, the agreement will take any interference with the Pavement Replacement Project into account. The Proposed Right-of-Way Crossings for the pipeline are located at MP 91.3, MP 93.3 and MP 104.95 where a 36" Steel Gas Pipe will be directionally bored across the Commission's Property. The boring pits are proposed outside of the Commission's Right-of-Way, and the tentative depths are no less than 5' below the lowest elevation of the Right-of-Way.
- Q#40 Is it possible to identify the exact dimension of the location of the pipeline off of the turnpike R/W limit and what the construction access R/W limits for the pipeline construction are? This could impact the credit for the fence cuts off of the R/W is why we are asking.
- A#40 No. All relevant information concerning the proposed pipeline that the Commission possesses is described in the response to Q#39.
- Q#41 Plan Insert Sheet 2- during what phase is this mill-fill work to be done?

39-17-01 Addendum No. 2 Page 6 of 6

A#41 During Phase 1 of the Project.

- Q#42 Will a MTD be required for the Pavement Repair work as shown on Plan Insert Sheet 2? Also, will it be required to pave the left lane bridge approaches in Phase 3?
- A#42 No, the MTD will not be required for Pavement Repairs and/or for the left lane bridge approaches; however, this change does not relieve the Contractor of the SP400s Smoothness Specification.

Adden	dum No. 2 to Contract 39-17-01:
	(Firm Name)
	(Signature)
	(Printed Name)
Date.	

<u>CONSTRUCTION SPECIFICATIONS</u> THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION 2010 CONSTRUCTION AND MATERIALS SPECIFICATIONS AND THE SPECIAL PROVISIONS CONTAINED IN THE CONTRACT DOCUMENTS SHALL GOVERN THIS PROJECT EXCEPT FOR ITEMS RELATED TO GUARDRAIL AND STABILIZATION. GUARDRAIL AND STABILIZATION ITEMS ARE COVERED BY THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION 2016 CONSTRUCTION AND MATERIAL SPECIFICATIONS.

LISTED BELOW ARE ALL UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS.

QUEST COMMUNICATIONS 4650 LAKEHURST COURT DUBLIN, OH 43016 ATTN: CHRISTOPHER STRAYER OFFICE PH: (303) 886-1299 HOME PH: (303) 383-8606

TOLEDO EDISON 6099 ANGOLA RD. HOLLAND, OH 43528 (419) 249-5019

AT&T COMMUNICATIONS 15 PEACHTREE CENTER ATLANTA, GA 30328 (800) 852-3786

(COLUMBIA GAS TRANSMISSION) 1804 BROAD AVE. FINDLAY, OH 45840 ANDY ALLISON (419) 788-6194

TIME WARNER CABLE 129 S. MAPLE ST. PORT CLINTON, OH 43452 (877) 772-2253

NISOURCE (COLUMBIA GAS OF OHIO) 1800 BROAD AVE. FINDLAY, OH 45840 ROBERT LANGFORD (419) 427-3227

JOB 8 LLC OSP ENGINEERING SPREAD NETWORKS, LLC 800 WOODLANDS PARKWAY, SUITE 205 RIDGELAND, MS 39157 JOHN BRUCE (769) 216-8095

SANDUSKY COUNTY SANITARY ENGINEERS 2100 COUNTRYSIDE DR. FREMONT, OH 43420 (419) 332-9967

NORTHERN OHIO RURAL WATER 2205 U.S. 20 NORWALK, OH 44857 (419) 668-7213

FRONTIER COMMUNICATIONS P.O. BOX 1804 MARION, OH 43301 (419) 660-8286

COLUMBIA GAS OF OHIO 1800 BROAD AVE. FINDLAY, OH 45840 (800) 344-4077

SANDUSKY TWP. TRUSTEES 2207 OAK HARBOR RD. FREMONT, OH 43420 (419) 332-3810

ELANTIC TELECOM 5518 COEN RD. VERMILION, OH 44089 (400) 967-1586

BUCKEYE CABLE SYSTEM 5566 SOUTHWICK BOULEVARD TOLEDO, OH 43614 (419) 724-9800

LEVEL 3 COMMUNICATIONS 1025 ELDORADO BLVD. *OFFICE 33A-524* BROOMFIELD, CO 80021 (720) 888-7280 TIM BOYKIN Tim.boykin@Level3.COM

THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE AS OBTAINED FROM THE OWNERS AS REQUIRED BY SECTION 153.64 O.R.C.

<u>LCI INTERNATIONAL FIBER OPTIC AND MCI CABLES</u>

EXTREME CARE MUST BE TAKEN BY THE CONTRACTOR TO PRESERVE AND PROTECT THE FIBER OPTIC CABLE DURING THE EXISTING STRUCTURE REMOVAL AND NEW STRUCTURE CONSTRUCTION. THE CABLE LOCATION IS DEPICTED ON THE PLAN AND PROFILE SHEETS. ANY EXCAVATION ADJACENT TO THE CABLE FOR ANY REASON SHALL NOT BE PERFORMED WITHOUT LCI FIRST LOCATING THE CABLE. AFTER THE CABLE HAS BEEN LOCATED BY LCI, THE CONTRACTOR SHALL EXCAVATE TO WITHIN 12" OF THE CABLE DEPTH AS PROVIDED. LCI REPRESENTATIVES WILL THEN HAND DIG TO EXPOSE THE CABLE.

THE CONTRACTOR SHALL ALSO BE AWARE OF THE EXISTING MCI CABLE WHEN EXCAVATING TO FORM THE PROPOSED OUTSIDE ROADWAY DITCHES. PARTICULAR AREA OF CONCERN FOR BOTH LCI AND MCI CABLES IS THE LEFT SIDE BETWEEN STA. 551+00 TO STA. 560+00, AND THE RIGHT SIDE BETWEEN STA. 567+00 AND 570+00. CABLES WERE PLOTTED FROM EXISTING AVAILABLE PLANS. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES FOR DEPTH VERIFICATION PRIOR TO ANY EXCAVATION WORK, ESPECIALLY IN NON-ANTICIPATED WORK AREAS. NO ADDITIONAL PAYMENT WILL BE MADE TO THE CONTRACTOR FOR TIME DELAY WAITING FOR DEPTH VERIFICATION FROM UTILITY COMPANIES.

PROJECT SURVEY

EXISTING ELEVATIONS SHOWN ON PAVEMENT ELEVATION TABLES, AND PLAN AND PROFILE SHEETS ARE AT THE RIGHT EDGE OF THE THIRD LANE (DIRECTION OF TRAFFIC) AND DERIVED FROM THE EXISTING THIRD LANE DESIGN PLANS. CONTRACTOR SHALL CONSTRUCT PROPOSED PAVEMENT TO MATCH EDGE OF EXISTING PAVEMENT AND INSURE DESIGN CROSS SLOPES AND SUPERELEVATION RATES ARE MET AS SHOWN ON THE PLANS. IN ADDITION, THE CONTRACTOR SHALL VERIFY ELEVATIONS AND CROSS SLOPES AS NECESSARY TO INSURE THAT NO WATER PONDING WILL OCCUR BETWEEN EXISTING PAVEMENT AND NEW PAVEMENT FOR THE LENGTH OF THE PROJECT.

ELEVATION DATUM

ALL ELEVATIONS ARE BASED ON NGVD29 DATUM.

THE AS-BUILT PLANS FROM THE ORIGINAL 1953 CONSTRUCTION, 3RD LANE WIDENING, DECK REPLACEMENT AND OTHER MODIFICATIONS, INCLUDING CROSS-SECTIONS, STANDARD DRAWINGS AND TURNPIKE SPECIFIC STANDARD DRAWINGS MAY BE INSPECTED IN THE OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION OFFICE LOCATED AT 682 PROSPECT STREET, BEREA, OHIO 44017, TELEPHONE (440) 234-2081.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE CHIEF ENGINEER" UNLESS AUTHORIZED BY THE CHIEF ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED FOR SUCH ITEMS SHALL BE INCORPORATED INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

ITEM 203 - EXCAVATION

THIS ITEM INCLUDES EXCAVATING THE EXISTING GRANULAR BASE UNDER THE LEFT, CENTER AND RIGHT LANES, APPROACH SLABS, FULL DEPTH EXCAVATION OF THE EXISTING RIGHT SHOULDER AFTER MILLING ASPHALT OVERLAY AND TRENCH EXCAVATION FOR AGGREGATE DRAIN. EXISTING GRANULAR BASE THICKNESS VARIES WITH AN ESTIMATED 6 INCHES THICK UNDER THE RIGHT AND CENTER LANES AND AN ESTIMATED 7 INCHES THICK UNDER THE LEFT LANE. THE EXCAVATION OF THE EXISTING SHOULDER, AFTER MILLING, INCLUDES APPROXIMATELY 12 TO 13 INCHES OF MATERIAL INCLUDING, BUT NOT LIMITED TO, CHIP AND SEAL, GRANULAR BASE AND EARTH. THESE THICKNESSES WERE DERIVED FROM THE EXISTING PLANS AND MAY VARY IN THE FIELD.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

RAMP RECONSTRUCTION

THE FOLLOWING QUANTITIES, ARE INCLUDED AS A CONTINGENCY, TO BE USED AS DIRECTED BY THE CHIEF ENGINEER FOR PROVIDING A SMOOTH TRANSITION BETWEEN THE RESURFACING DONE BY OTHERS AND THE PROPOSED FULL DEPTH PAVEMENT BEING CONSTRUCTED ON RAMPS B AND C FOR THIS PROJECT.

ITEM 254 - PAVEMENT PLANING, ASPHALT CONCRETE, (2"±) ITEM SP 404 - ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED SLAG, PG 70-22 (FR), (2")

97 SQ. YD.

6 CU. YD.

BENCHING OF SLOPES

ALTHOUGH CROSS-SECTIONS DO NOT INDICATE SPECIFIC DIMENSIONS FOR PROPOSED BENCHING
OF THE EMBANKMENT FOUNDATION, NO WAIVER OF THE SPECIFICATIONS IS INTENDED. ALL

OF THE SECTION OF THE SPECIFICATION O SLOPED EMBANKMENT AREAS SHALL BE BENCHED AS SET FORTH IN 203.05. NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED UNDER THE PROVISIONS OF 203.05. SEE BENCHING DETAIL. SHEET 6.

PLAN STATIONING

UNLESS NOTED OTHERWISE, PLAN STATIONING CALL OUTS REFERENCE THE ALIGNMENT THAT THE ITEM IS ADJACENT TO IF THERE IS MORE THAN ONE ALIGNMENT SHOWN IN THE PLAN. PAVEMENT CALCULATIONS AND ROADWAY SUMMARIES USE THE ALIGNMENT FOR THE TRAVELED LANE SO THAT IN AN AREA THAT HAS RELOCATED LANES THOSE STATIONS ARE USED RATHER THAN THE RE-ESTABLISHED SURVEY BASELINE. THE EXCEPTIONS TO THIS ARE UNDERDRAINS AND APPROACH SLABS WHICH USE RE-ESTABLISHED SURVEY BASELINE STATIONING.

ITEM SPECIAL - SONIC ALERT NAP PATTERN (SNAP)

IN ADDITION TO THE LOCATIONS SHOWN IN THE PAVEMENT CALCULATIONS, SNAPS SHALL BE CONSTRUCTED ON THE EB AND WB MEDIAN SHOULDERS BETWEEN M.P. 89.6 AND M.P.

ALL EQUIPMENT, MATERIALS AND LABOR REQUIRED TO PERFORM THE WORK OUTLINED ABOVE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM SPECIAL - SNAP ALERT PATTERN (SNAP).

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

ITEM SPECIAL - SONIC NAP ALERT PATTERN (SNAP) 13.0 MILES

ENDANGERED SPECIES - INDIANA BAT

THIS PROJECT IS WITHIN THE RANGE OF THE FEDERALLY ENDANGERED INDIANA BAT (MYOTIS SODALIS). THE ROOSTING HABITAT FOR THE INDIANA BAT CONSISTS OF LIVING OR DEAD TREES OR SNAGS WITH EXFOLIATING, PEELING OR LOOSE BARK, SPLIT TRUNKS AND/OR BRANCHES OR CAVITIES. THEREFORE, ANY UNAVOIDABLE CUTTING OF SUCH TREES OR SNAGS WILL BE PERFORMED ONLY AFTER SEPTEMBER 30 AND BEFORE APRIL 1. PRIOR TO ANY REHABILITATION/REMOVAL, THE UNDERSIDE OF THE EXISTING BRIDGE SHALL BE CAREFULLY EXAMINED FOR THE PRÉSENCE OF BATS, ESPECIALLY FROM APRIL 1 TO SEPTEMBER 30. IF ANY BATS ARE FOUND ROOSTING, ON THE UNDERSIDE OF A BRIDGE, THE UNITED STATES FISH AND WILDLIFE SERVICE, ECOLOGICAL SERVICES DIVISION, THE ODOT OFFICE OF ENVIRONMENTAL SERVICES AND ODOT DISTRICT 3 ENVIRONMENTAL SECTION SHALL BE CONTACTED OR PROVIDED WITH INFORMATION.

ITEM 201 - CLEARING AND GRUBBING

ALL TREES, BRUSH AND STUMPS SHALL BE REMOVED WITHIN THE CONSTRUCTION LIMITS AS SHOWN IN THE CONSTRUCTION PLANS AND/OR ALL AREAS WITHIN THIRTY FEET OF THE EDGE OF PAVEMENT. THIS WORK SHALL BE COMPLETED UNDER THE LUMP SUM BID FOR ITEM 201, CLEARING AND GRUBBING;

PAVEMENT TRANSITIONS

THE FOLLOWING CONTINGENCY QUANTITIES FOR ITEM SP 404 - ASPHALT CONCRETE SURFACE COURSE USING CRUSHED SLAG, PG 70-22 (FR) (1 1/2") AND ITEM 254 - PAVEMENT PLANING, VARIABLE DEPTH 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 EXISTING PAVEMENT TO REMAIN. THE LIMITS FOR THIS WORK IS ANTICIPATED TO BE A TEN (10) FOOT LENGTH AT THE PROJECT ENDS.

ALL EQUIPMENT, MATERIALS AND LABOR REQUIRED TO PERFORM THE WORK OUTLINED ABOVE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM SP 404 - ASPHALT CONCRETE SURFACE COURSE USING CRUSHED SLAG, PG 70-22 (FR) (1 1/2") AND ITEM 254 -PAVEMENT PLANING, VARIABLE DEPTH.

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

ITEM SP 404 - ASPHALT CONCRETE SURFACE COURSE USING CRUSHED SLAG, PG 70-22 (FR) (1 1/2") 6 C.Y. ITEM 254 - PAVEMENT PLANING, VARIABLE DEPTH 134 S.Y.

THEM 617 - SHOULDER PREPARATION, AS PER PLAN IN ADDITION TO THE REQUIREMENTS OF ITEM 617.04 OF THE SPECIFICATIONS, THE CONTRACTOR SHALL PERFORM THE FOLLOWING ADJACENT TO NEW PAVEMENT.

THE SUBGRADE SHALL BE PLAC3ED IN 6" LIFTS (MAX) AND COMPACTED IN ACCORDANCE WITH ITEM 204 IMMEDIATELY PRIOR TO PLACING THE AGGREGATE AND AFTER THE SUBGRADE IS SHAPED OR BLADED TO FINE A STRAIGHT VERTICAL EDGE WITH THE ADJACENT DIRT. THE ENTIRE THICKNESS OF AGGREGATE SHALL BE SUPPORTED ALONG THE OUTER EDGE WITH TOPSOIL AND FILE DIRT THAT IS CONSISTENT WITH THE FORE SLOPE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID PER SQUARE YARD FOR ITEM 647 - SHOULDER PREPARATION, AS PER PLAN AND SHALL INSLUDE ANY EXCAVATION, EMBANKMENT, LINEAR GRADING, SUBGRADE COMPACTION, PROOF POLLING, ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THIS WORK.

ITEM 209 - LINEAR GRADING, AS PER PLAN IN ADDITION TO THE REQUIREMENTS OF ITEM 209.03 OF THE SPECIFICATIONS, THE CONTRACTOR SHALL PERFORM THE FOLLOWING ADJACENT TO NEW PAVEMENT.

RECONSTRUCT THE FORESLOPE TO THE ORIGINAL CONDITION OR AS DIRECTED BY THE CHIEF ENGINEER USING 4" OF TOPSOIL FOR ANY DISTURBED EARTH AREAS NOT COVERED BY AGGREGATE IN ACCORDANCE WITH 659.11.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID PER MILE FOR ITEM 209 - LINEAR GRADING, AS PER PLAN AND SHALL INCLUDE ANY EXCAVATION, EMBANKMENT, LINEAR GRADING, SUBGRADE COMPACTION, PROOF ROLLING, ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THIS WORK.

520	GPD GROUP. Ginn, P/In, Schoner, Burne & Delleiren, Inc. South Main Street, Suite 2531, Altron, Ohio 44311 Far	330-57 x 330-52	2-2100 72-2101
м.	P. 90.00 TO M.P. 95.90 SANDUSI	кү со	UNTY
	GENERAL NOTES		
 IN	OHIO TURNPIKE AND IFRASTRUCTURE COMMI		ON
NO.	REVISIONS	BY	DATE
-	-	-	-
1	ADDENDUM NO. 2	CLH	10/19/1

DESIGNED: CLH CHECKED: PJF DATE: 08/26/16
DRAWN: CLH IN CHARGE: MRG SCALE: N.T.S. **PROJECT NO. 39-17-01 SHEET** 9

EXISTING GUARDRAIL, PLASTIC BLOCKS, THRIE BEAMS AND POSTS THAT ARE IN GOOD CONDITION WILL BE REMOVED, SALVAGED AND DELIVERED TO THE ELMORE MAINTENANCE BUILDING AT MP ??. THE SALVAGED MATERIALS ARE TO BE OFFLOADED AND PLACED AT THE DIRECTION OF OTIC MAINTENANCE. OTIC WILL SUPPLY FORKLIFT

THE TABLE BELOW SHOWS THE APPROXIMATE LOCATIONS AND LENGTHS. THE ACTUAL LOCATIONS AND LENGTHS WILL BE DETERMINED BY THE ENGINEER PRIOR TO ANY GUARDRAIL REMOVAL. PAYMENT FOR ALL LABOR AND INCIDENTALS FOR THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE PER FOOT BID FOR ITEM 202, GUARDRAIL REMOVED FOR SALVAGE, AS PER PLAN

EASTBOUND MILE POST LOCATIONS (APPROXIMATE)	QTY.	DESCRIPTION	LENGTH (FT.)
90.2	11	GUARDRAIL PANELS	137.50
90.3	7	GUARDRAIL PANELS	87.50
90.5	30	GUARDRAIL PANELS	375.00
90.6	40	GUARDRAIL PANELS	500.00
90.7	5	GUARDRAIL PANELS	62.50
90.8	15	GUARDRAIL PANELS	187.50
91.0	6	GUARDRAIL PANELS	75.00
92.7	5	GUARDRAIL PANELS	62.50
93.3	17	GUARDRAIL PANELS	212.50
93.5	14	GUARDRAIL PANELS	175.00
94	21	GUARDRAIL PANELS	262.50
94.2	5	GUARDRAIL PANELS	62.50
94.6	11	GUARDRAIL PANELS	137.50
95	17	GUARDRAIL PANELS	212.50
95.3	15	GUARDRAIL PANELS	187.50
95.6	10	GUARDRAIL PANELS	125.00
95.8	17	GUARDRAIL PANELS	212.50
TOTAL CARRIED TO GENERAL SUMMARY	246	GUARDRAIL REMOVED FOR SALVAGE, AS PER PLAN	3075.00
INCIDENTAL	ALL	PLASTIC G/R BLOCKS,(PART #24903)	
INCIDENTAL	5	ELEMENT G/R TRANSITION THRIE BEAM (PART #24115)	
INCIDENTAL	100	G/R POST (PART #24510)	

ITEM SP604 - CATCH BASIN, NO. CB-1

EXISTING TOP OF GRATE ELEVATIONS FOR ALL STORM STRUCTURES SHALL BE FIELD MEASURED AND RECORDED BY THE CONTRACTOR PRIOR TO REMOVAL OF THE

PROPOSED CATCH BASINS SHALL BE INSTALLED AT APPROXIMATELY THE SAME TOP OF PROPOSED CATCH BASINS SHALL BE INSTALLED AT APPROXIMATELY THE SAME TOP OF GRATE ELEVATIONS AS EXISTING WITH THE INVERT ELEVATIONS SHOWN IN THE PLANS. REPLACE OUTLET PIPES AS SHOWN IN PLANS OR AS DIRECTED BY ENGINEER. PROPOSED DRAINAGE PIPES SHALL BE CONNECTED TO EXISTING PIPES USING MASONRY COLLAR AS PER ODOT STANDARD DRAWING DM-1.1 WHEN DIRECTED BY THE CHIEF ENGINEER. ALL COSTS ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE PER EACH FOR ITEM SP604 - CATCH BASIN, NO. CB-1.

<u> ITEM 611 - PRECAST REINFORCED CONCRETE OUTLET, AS PER PLAN</u>

IN ADDITION TO THE REQUIREMENTS OF ITEM 611 AND STANDARD DRAWING DM-1.1, THE BID PRICE FOR THIS ITEM SHALL INCLUDE THE PROVISION AND INSTALLATION OF THE ITEM 601 - TIED CONCRETE BLOCK MAT, TYPE 1 AS SHOWN ON STANDARD DRAWING DM-1.1.

ITEM 601 - ROCK CHANNEL PROTECTION

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE CHIEF ENGINEER TO ADDRESS CHANNEL EROSION PROBLEMS WHICH MAY BECOME APPARENT DURING CONSTRUCTION.

ITEM 601 - ROCK CHANNEL PROTECTION, TYPE B WITH FILTER 200 C.Y. ITEM 601 - ROCK CHANNEL PROTECTION, TYPE C WITH FILTER 200 C.Y.

CONNECTIONS TO PIPES OF DISSIMILAR MATERIALS

PIPES OF DISSIMILAR MATERIALS OR INCOMPATIBLE ENDS SHALL BE JOINED USING A CONCRETE COLLAR AS PER STANDARD CONSTRUCTION DRAWING DM-1.1

ITEM 604 - CATCH BASIN ADJUSTMENTS, GRATES AND CASTINGS, AS PER PLAN

THE FOLLOWING CONTINGENCY ITEMS HAVE BEEN INCLUDED IN THE ESTIMATED QUANTITIES ON SHEET 108 FOR USE IN ADJUSTING, REPAIRING, AND/OR REBUILDING SHOULDER CATCH BASINS. FOR CATCH BASINS ADJUSTED TO GRADE THE CONTRACTOR SHALL REBUILD FROM THE TOP OF PRECAST STRUCTURE TO THE BOTTOM OF THE CASTING AT THE EXISTING GRADE. THE USE OF BRICK TO REBUILD THE CATCH BASIN SHALL BE PROHIBITED. THE CONTRACTOR SHALL SAWCUT PAVEMENT AROUND THE EXISTING CATCH BASIN, A MINIMUM OF 12" AROUND THE CASTING AND REMOVE THE CASTING AND SAWCUT ASPHALT CONCRETE. THE CONTRACTOR SHALL FORM AND POUR, USING CLASS "MS" CONCRETE, TO REBUILD THE CATCH BASIN TO SECURE CONCRETE TO THE EXISTING PRECAST STRUCTURE, THE CONTRACTOR SHALL INSTALL #4 DOWEL BARS, SPACED 12" O/C (3 PER SIDE UNLESS DIRECTED OTHERWISE BY THE CHIEF ENGINEER) IN ACCORDANCE WITH ITEMS 509 AND 510. THE DOWEL BARS SHALL BE IMBEDDED AT LEAST 6" INTO THE EXISTING PRECAST STRUCTURE AND SECURED WITH NON-SHRINK NON-METALLIC GROUT THAT CONFORMS TO SP 952. THE CONTRACTOR SHALL USE FORMS SIZED TO CONFORM TO THE INTERIOR OF THE CATCH BASIN, AND THAT WILL INSURE A SMOOTH INTERIOR FINISH. ALL OTHER CONCRETE SURFACES SHALL HAVE A BROOMED FINISH. AFTER THE CASTING IS SET TO THE FINAL GRADE, THE AREA AROUND THE ADJUSTED CATCH BASIN CASTING CASTING IS SET TO THE FINAL GRADE, THE AREA AROUND THE ADJUSTED CATCH BASIN CASTING SHALL BE BACK FILLED WITH CLASS "MS" CONCRETE TO THE EXISTING SURFACE. FOR CATCH BASINS ADJUSTED TO GRADE WITH DISTANCES FROM THE TOP OF THE PRECAST STRUCTURE TO THE BOTTOM OF THE CASTING THAT ARE GREATER THAN 12", THE SAME METHOD SHALL BE USED TO REBUILDING THE CATCH BASINS TO GRADE. FOR CATCH BASINS ADJUSTED TO GRADE WITH DISTANCES FROM THE TOP OF THE PRECAST STRUCTURE TO THE BOTTOM OF THE CASTING THAT ARE LESS THAN 4", THE SAME METHOD SHALL BE USED TO REBUILDING THE CATCH BASINS TO GRADE, EXCEPT THAT NO FORMS OR DOWN IS ARE REQUIRED. FORMS OR DOWELS ARE REQUIRED.

A CONTINGENCY QUANTITY OF CATCH BASIN GRATE AND CASTING, AS PER PLAN, HAS BEEN INCLUDED FOR USE AS DIRECTED BY THE CHIEF ENGINEER. THE REPLACEMENT GRATE AND CASTING SUPPLIED SHALL BE HEAVY DUTY.

ALL CONCRETE, DOWELS, DOWEL HOLES, GROUT, SAW CUTTING, LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS NECESSARY TO COMPLETE THE ABOVE MENTIONED WORK SHALL BE INCLUDED IN THE BID PRICE PER EACH - ITEM 604 - CATCH BASIN ADJUSTED TO GRADE, 4" OR LESS, AS PER PLAN AND ITEM 604 - CATCH BASIN GRATE AND CASTING, AS PER PLAN.

OTIC STANDARD DRAWINGS CB-1, CB-2, CB-3, CB-4, AND CB-5 ARE PROVIDED FOR INFORMATION AS TO THE TYPES OF BASINS THAT MAY NEED ADJUSTMENT.

ITEM 837 - LINER PIPE, AS PER PLAN LINER PIPE WRITTEN PROCEDURE SHALL COMPLY WITH MANUFACTURER'S RECOMMENDATIONS AND INCLUDE SLIP RAIL SYSTEM, PHASING OF GROUTING ANNULAR SPACE, LOCATIONS OF GROUT PORTS. EQUIPMENT TO BE USED, GUAGES AND PRESSURE MONITORING DEVICES ON PUMPS, ETC. A PRE-INSTALLATION MEETING WILL BE HELD AFTER SUBMITTAL APPROVAL AND PRIOR TO COMMENCING THIS WORK. THE LINER MANUFACTURER'S REPRESENTATIVE MUST BE ON SITE DURING GROUTING

SUPPLEMENTAL SPECIFICATION 837 LINER PIPE SHALL BE AMENDED AS FOLLOWS: 837.02 MATERIALS. THE LINER PIPE MATERIAL SHALL BE LIMITED TO 707.02, 707.42, SS937 OR SS938.

837.03 INSTALLATION. INSTALLATION SHALL BE ADHERED TO WITH THE FOLLOWING ADDITIONS: E. CONTRACTOR SHALL SUBMIT A WRITTEN INSTALLATION PROCEDURE FOR THE LINER PIPE FOR APPROVAL. THE CONTRACTOR SHALL ALSO PROVIDE: METHOD OF HOLDING THE LINER PIPE IN PLACE DURING THE GROUTING PROCEDURE TO INSURE THE LINER PIPE DOES NOT FLOAT; PROCEDURE FOR CONNECTING ALL LATERAL PIPES; A GROUT MIX DESIGN; THE GROUTING PROCEDURE SHALL BE APPROVED BY THE MANUFACTURE; THE CONTRACTOR SHALL SUPPLY AT LEAST FIVE VERIFIABLE PROJECTS WITH THE ENGINEER'S CONTACT NAME, ADDRESS AND PHONE NUMBER FOR EACH PROJECT WITH A SIMILAR SCOPE.

F. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THAT THE SPECIFIED PIPE WILL FIT INTO THE EXISTING CONDUIT AND VERIFY THE LENGTH PRIOR TO ORDERING THE LINER PIPE. G. ALL EXISTING LATERAL PIPES OR UNDERDRAIN CONNECTIONS SHALL BE CONNECTED TO THE PROPOSED LINER PIPE. THESE CONNECTIONS MAY OR MAY NOT BE SHOWN OR SPECIFIED IN THE PLANS. THE CONTRACTOR SHALL VERIFY THE NUMBER, SIZE AND LOCATION OF ALL CONNECTING PIPES. LATERAL PIPES MAY NEED TO BE TRIMMED IN ORDER TO INSTALL THE LINER PIPE. 837.05 BASIS OF PAYMENT. PAYMENT FOR THE ACCEPTED QUANTITIES WILL BE MADE AT THE CONTRACT UNIT PRICE. PAYMENT REPRESENTS FULL COMPENSATION FOR ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND OTHER INCIDENTALS NECESSARY TO COMPLETE THE ITEM OF WORK DESCRIBED IN THE SUPPLEMENTAL SPECIFICATION 837 LINER PIPE AND ABOVE.

SPECIAL - SECURING MANHOLE LID

ITEM SPECIAL - SECURING MANHOLE LID, SHALL BE USED TO SAFELY SECURE THE MANHOLE LID TO THE MANHOLE CASTING FOR TEMPORARY TRAFFIC CONTROL PURPOSES. THE MANHOLE LIDS ARE LOCATED IN THE MEDIAN/SHOULDER WITHIN PROJECT LIMITS AT LOCATIONS SHOWN IN ROADWAY SUBSUMMARY. SECURING OF MANHOLE LID SHALL CONSIST OF THE FOLLOWING: THE CONTRACTOR SHALL REMOVE THE MANHOLE LID AND REMOVE ANY DEBRIS FROM THE CASTING LIP THAT THE MANHOLE LID RESTS ON; THE CONTRACTOR SHALL RESEAT THE MANHOLE LID AND WELD THE LID TO THE FRAME: PRIOR TO COMPLETION OF THE PROJECT THE CONTRACTOR SHALL REMOVE THE WELDS SECURING THE LID TO THE FRAME SO THAT CONTINUED ACCESS TO THE MANHOLE CAN BE

WELDING THE LID TO THE FRAME SHALL CONSIST OF FOUR 10" LONG FILLET WELDS LOCATED AT EACH QUADRANT OF THE MANHOLE. REMOVAL OF THE WELDS SHALL BE ACCOMPLISHED BY EITHER GRINDING OR AIR ARCING AND IN SUCH A MANNER SO AS NOT TO DAMAGE OR IMPAIR THE INTEGRITY OF THE LID AND/OR CASTING.

ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS NEEDED TO COMPLETE THE ABOVE MENTIONED WORK SHALL BE INCLUDED IN THE UNIT BID PRICE PER EACH - ITEM SPECIAL - SECURING MANHOLE

PAVEMENT REPAIRS

THE FOLLOWING QUANTITIES, ARE INCLUDED AS A CONTINGENCY, TO BE USED AS DIRECTED BY THE CHIEF ENGINEER FOR PAVEMENT REPAIR MEASURES TO MAINTAIN TRAFFIC. CONTRACTOR SHALL FOLLOW ODOT CMS FOR ITEM 255, EXCEPT THAT PLACEMENT OF THE DOWEL BARS ARE NOT REQUIRED, CONCRETE SHALL BE CLASS FS, AND MAINTENANCE OF TRAFFIC COSTS INCURRED BY THE CONTRACTOR FOR THESE CURRENTLY UNKNOWN AND UNDEFINED PAVEMENT REPAIRS WILL BE COMPENSATED ON A TIME AND MATERIALS BASIS AS APPROVED BY THE CHIEF ENGINEER. DEPTH FOR PARTIAL REMOVAL WILL BE 5" (+/-) ASPHALT ON CONCRETE TO THE SURFACE OF THE CONCRETE BASE. REPLACEMENT MATERIALS ARE SPECIFIED IN 251.03 UNIT PRICES BID FOR THE ITEMS IMMEDIATELY BELOW SHALL NOT INCLUDE MAINTENANCE OF TRAFFIC COSTS

PRE-PLACEMENT TESTING/PRE-PLACEMENT MEETING

IN COORDINATION WITH THE TESTING LAB, THE SUPPLIER SHALL BATCH A MINIMUM OF THREE (3) CUBIC YARDS OF CONCRETE USING A CLASS FS CONCRETE MIX DESIGN TO BE USED FOR PRE-PLACEMENT FIELD AND LABORATORY TESTING. THE CONCRETE SHALL BE DELIVERED TO THE JOB SITE TO SIMULATE JOB CONDITIONS, AS DIRECTED BY THE CHIEF ENGINEER. THE SIMULATION OF JOB CONDITIONS ARE TO INCLUDE BUT NOT LIMITED TO AIR TEMPERATURE DURING PLACEMENT AND CURE PERIOD WHICH WOULD ADVERSELY AFFECT THE CONCRETE STRENGTH HINDERING THE OPENING OF CLOSED LANES TO TRAFFIC. THE CONTRACTOR AND CONCRETE SUPPLIER WILL BE REQUIRED TO PERFORM THIS TEST POUR IN THE OVERNIGHT HOURS CONSISTENT WITH LANE CLOSURE RESTRICTIONS WHEN THE FULL DEPTH RIGID PAVEMENT REPLACEMENT WORK WILL TAKE PLACE. UPON COMPLETION OF THE ONSITE MATERIAL TESTING AT THE TIME OF DELIVERY, THE CONCRETE SHALL BE PLACED IN A SET OF FORMS TO SIMULATE THE RIGID FULL DEPTH RIGID PAVEMENT REPLACEMENT CONDITIONS. THE CONCRETE SHALL BE PLACED, CONSOLIDATED AND FINISHED AS WOULD BE EXPECTED FOR THE ACTUAL PAVEMENT REPLACEMENT WORK. THE SLAB IS TO BE CURED IN ACCORDANCE WITH THE ITEM 255 SPECIFICATIONS AND TESTING LAB BEAMS (6) AND CYLINDERS (6) SHALL BE CURED WITH THE SAME CONDITIONS AS THE TEST SLAB. THE CONTRACTOR SHALL DISPOSE OF ALL CONCRETE WASTE AND TEST SLAB OFF OF THE TURNPIKE RIGHT-OF-WAY UNLESS OTHERWISE APPROVED BY THE CHIEF ENGINEER. THE COST FOR COMPLYING WITH THIS REQUIREMENT SHALL BE IN ACCORDANCE WITH "BASIS OF PAYMENT."

SLUMP, AIR, YIELD AND TEMPERATURE SHALL BE CHECKED AT THE PLANT AND UPON ARRIVAL AT THE SITE. SIX (6) CYLINDERS AND SIX (6) BEAMS WILL BE MOLDED FOR PERIODIC TESTING AFTER FINAL PLACEMENT TO DETERMINE WHEN THE REQUIRED STRENGTH IS ACHIEVED. AT A MINIMUM, THE CONTRACTOR AND CONCRETE SUPPLIER IS TO PROVIDE A CLASS FS MIX DESIGN AND PERFORMANCE STANDARDS OF ACHIEVING A MODULUS OF RUPTURE 400 POUNDS PER SQUARE INCH WITHIN 4 HOURS OF FINAL PLACEMENT.

AS DIRECTED BY THE CHIEF ENGINEER, AN ADDITIONAL THREE (3) CUBIC YARD BATCHES SHALL BE PROVIDED BY THE SUPPLIER UNTIL THE CONCRETE MEETS SLUMP, AIR, YIELD, TEMPERATURE AND FLEXURAL STRENGTH REQUIREMENTS OF MODULUS OF RUPTURE OF 400 PSI TO ALLOW TRAFFIC TO USE THE REPAIRED AREA. THE OTIC SHALL PAY FOR ONLY ONE (1) TEST POUR OF 3 CUBIC YARDS OF FS CONCRETE. THE CONTRACTOR WILL BE REQUIRED TO CONTINUE PROVIDING TEST POURS UNTIL THE SPECIFICATIONS ARE MET HEREIN.

A PRE-PLACEMENT MEETING SHALL BE SCHEDULED AFTER REVIEW OF THE CONTRACTOR'S SUBMITTED PLACEMENT PROCEDURES AND PRIOR TO EACH MAJOR PLACEMENT. PRIOR TO THE PRE-PLACEMENT MEETING. AN APPROVED TEST MIX WITH CYLINDER BREAKS AT SEVEN (7) AND TWENTY-EIGHT (28) DAYS MUST BE PROVIDED.

ALL EQUIPMENT, MATERIALS AND LABOR REQUIRED TO PERFORM THE WORK OUTLINED ABOVE SHALL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 255 - FULL DEPTH REMOVAL AND RIGID REPLACEMENT.

THE SURFACE COURSE SHALL BE ITEM SP 404, ASPHALT CONCRETE SURFACE COURSE USING CRUSHED SLAG, PG 64-22. THE INTERMEDIATE COURSE SHALL BE ITEM SP 402 - ASPHALT CONCRETE BASE COURSE OR RECYCLED ASPHALT CONCRETE BASE COURSE, PG 64-22.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE CHIEF ENGINEER.

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR ITEM 252 - FULL DEPTH PAVEMENT SAWING

ITEM 255 - FULL DEPTH PAVEMENT REMOVAL AND RIGID REPLACEMENT

544 SQ. YD. 160 FT. 512 SQ. YD.

2	ADDENDUM NO. 2	CLH	10/19/16
NO.	REVISIONS	BY	DATE
IN	OHIO TURNPIKE AND FRASTRUCTURE COMMI		ON
	GENERAL NOTES		
M.I	P. 90.00 TO M.P. 95.90 SANDUSI	KY CO	UNTY

ADDENDUM NO. 1

GPD GROUP.

CLH IN CHARGE: MRG N.T.S. PROJECT NO. 39-17-01 SHEET 11 OF 272

0

0

ITEM SP 622A - TEMPORARY PORTABLE BARRIER (WITH GLARE SCREEN)

ITEM SP 622A - TEMPORARY CONCRETE BARRIER (WITHOUT GLARE SCREEN)

THE CONTRACTOR SHALL REPLACE ANY DAMAGED TEMPORARY PORTABLE BARRIER WITHIN 24 HOURS OF A DAMAGING IMPACT. TO FACILITATE THIS PROMPT REPLACEMENT, AN ADDITIONAL THREE HUNDRED FEET OF EACH TYPE OF BARRIER SHALL BE ON THE PROJECT AT ALL TIMES.

THE FOLLOWING CONTINGENCY QUANTITIES HAVE BEEN SHOWN FOR INFORMATIONAL PURPOSES ONLY. A LUMP SUM QUANTITY HAS BEEN CARRIED TO THE MAINTENANCE OF TRAFFIC GENERAL SUMMARY FOR USE AS DIRECTED BY THE CHIEF ENGINEER FOR REPLACEMENT OF TEMPORARY PORTABLE BARRIER

300 FEET

ITEM SP 622A - TEMPORARY PORTABLE BARRIER, 32" (WITH GLARE SCREEN)

ITEM SP 622A - TEMPORARY CONCRETE BARRIER, 32" (WITHOUT GLARE SCREEN) 300 FFFT

ITEM SPECIAL - "SNAP" MILL AND FILL

MAINTENANCE OF TRAFFIC ON THE MEDIAN SHOULDER AND PORTIONS OF THE OUTSIDE SHOULDER WILL REQUIRE THE EXISTING "SNAPS" TO BE MILLED AND FILLED OUTSIDE THE WORK LIMITS FOR TEMPORARY TRAFFIC CONTROL PURPOSES.

PAYMENT FOR THIS ITEM SHALL INCLUDE REMOVAL OF EXISTING "SNAPS" AND THE EXISTING PAVEMENT JOINT BY MILLING $1\frac{1}{2}$ " DEEP AND 5' WIDE, TACK COATING AII EXPOSED MILLED SURFACES, AND PAVING THE MILLED AREA WITH $1\frac{1}{2}$ " OF ITEM SP 404 — ASPHALT CONCRETE SURFACES, AND FAVING THE MILLED AREA WITH 1/2 OF THEM SF 404 - ASPHALL CONCRE SURFACE COURSE, PG 64-22. ALL LABOR, EQUIPMENT AND MATERIALS NECESSARY TO COMPLETE THE ABOVE MENTIONED WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM SPECIAL - "SNAP" MILL AND FILL.

ITEM SPECIAL - "SNAP" MILL AND FILL..... 2,510 FT

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 OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, THE CHIEF ENGINEER WILL SUSPEND WORK UNTIL THE CONTRACTOR COMPLIES WITH THE NECESSARY REQUIREMENTS.

ITEM 630 - SIGNING MISC.: ADDITIONAL SIGNS WITH SUPPORTS AS DIRECTED BY THE CHIEF ENGINEER

WHEN ADDITIONAL SIGNING IS NEEDED TO MAINTAIN TRAFFIC, THE CONTRACTOR SHALL FURNISH THE SIGN OR SIGNS AS DIRECTED BY THE CHIEF ENGINEER. THESE SIGNS SHALL BE GROUND OR BARRIER MOUNTED AND MEET ALL THE SPECIFICATIONS OF THE PLAN, PROPOSAL AND CURRENT YEAR ODOT CMS. SIGN SUPPORTS AND HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 630 - SIGNING, MISC.: ADDITIONAL SIGNS WITH SUPPORTS, AS DIRECTED BY THE CHIEF ENGINEER.

ITEM 630 - SIGNING, MISC.: ADDITIONAL SIGNS WITH SUPPORTS, AS DIRECTED BY THE CHIEF ENGINEER 500 SQ FT

SCHEDULED DURATION OF WORK ZONES

THE FOLLOWING DEFINITIONS SHALL APPLY FOR THE DURATION OF WORK ZONE TYPES UTILIZED

LONG TERM STATIONARY ZONES: MORE THAN 5 DAYS, POST MOUNTED SIGNS, REFLECTORIZED TRAFFIC DRUMS. (RESURFACING PROJECTS, 3RD LANE PROJECTS, FULL DEPTH RECONSTRUCTION PROJECTS. ETC.)

INTERMEDIATE TERM STATIONARY ZONES: OVERNIGHT TO 5 DAYS; ROLL UP SIGNS ON X-FOOTPRINT SIGN STANDS, REFLECTORIZED TRAFFIC DRUMS. (FULL DEPTH PAVEMENT REPAIRS, ETC.)

SHORT TERM STATIONARY ZONES: FROM 1 TO 12 HOURS, SIGNS ON X-FOOTPRINT SIGN STANDS. 28" OR 42" CONES IN DAYTIME HOURS AND REFLECTORIZED 42" CONES OR TRAFFIC DRUMS AT NIGHTTIME. (CRACK SEALING OPERATIONS, RPM REFLECTOR REPLACEMENT, GUARDRAIL REPAIR, WASH-OUT REPAIRS, PAVEMENT BLOW-UPS, ETC.)

SHORT DURATION INTERMITTENT ZONES: LESS THAN 1 HOUR; APPROPRIATE TRUCK MOUNTED SIGNS. (SPRING CLEAN-UP, CATCH BASIN CLEANING, ETC.)

MOVING ZONES: SLOW MOVING CONTINUOUS OR MOVING WITH INTERMITTENT SHORT STOPS, SHADOW VEHICLE WITH A TRUCK MOUNTED ATTENUATOR (TMA) AND CHANGEABLE MESSAGE BOARD (CMB) OR APPROPRIATE SIGN. (SWEEPING OPERATIONS, WEED SPRAYING, ROADWAY POLICING, POTHOLE REPAIR, DELINEATOR CLEANING / REPAIR / REPLACEMENT, RPM CASTING INSTALLATION, LINE STRIPING, ETC.)

ALL INTERMEDIATE, SHORT TERM DURATION OR MOVING ZONES SHALL BE APPROVED BY THE CHIEF ENGINEER PRIOR TO FIELD ERECTION.

TRAFFIC CONTROL VEHICLES

THE FOLLOWING DEFINITIONS APPLY TO WORK ZONE TRAFFIC CONTROL VEHICLES FOR THIS

SHADOW VEHICLE: A VEHICLE LOCATED A SHORT DISTANCE BEHIND A MOVING OPERATION WITH A TRUCK MOUNTED ATTENUATOR (TMA) OR TOWABLE TRAILER MOUNTED ATTENUATOR (TTMA) AND CHANGEABLE MESSAGE BOARD (CMB) OR APPROPRIATE SIGN. THE VEHICLE SHALL MEET THE TMA/TTMA MANUFACTURER'S REQUIREMENTS FOR SIZE,

BARRIER VEHICLE: AN UNOCCUPIED SHADOW VEHICLE, WITH OR WITHOUT A TMA/TTMA, PARKED WITHIN A STATIONARY WORK ZONE PRIOR TO A LOCALIZED WORK AREA. THE TRUCK'S BRAKE SHOULD BE SET, THE TRANSMISSION PLACED IN PARK OR GEAR, AND THE FRONT WHEELS TURNED AWAY FROM THE WORK AREA. IF A TMA/TTMA IS NOT USED THEN THE VEHICLE SHALL HAVE A GROSS VEHICLE WEIGHT OF AT LEAST 20,000

MAINTAINING TRAFFIC NOTIFICATION

SINCE FUNCTIONAL TRAFFIC CONTROL IS A MAJOR CONCERN ON THIS PROJECT, IT IS ESSENTIAL THAT THE MOTORING PUBLIC BE ADEQUATELY FOREWARNED OF FUTURE LANE CLOSURES OR TRAFFIC CONSTRICTIONS. THEREFORE, THE CONTRACTOR SHALL SUBMIT A WRITTEN SCHEDULE TO THE CHIEF ENGINEER AND RESPONSIBLE LAW ENFORCEMENT AGENCY (OHIO HIGHWAY PATROL) INDICATING THE LOCATIONS AND DATES OF THE LANE CLOSURES OR TRAFFIC CONSTRICTIONS AT LEAST 48 HOURS PRIOR TO THE IMPLEMENTATION OF ANY SUCH TRAFFIC DISRUPTION

THE CHIEF ENGINEER SHALL APPROVE THIS SCHEDULE PRIOR TO THE CONTRACTOR SUBMITTING THE WRITTEN SCHEDULE TO THE OHIO HIGHWAY PATROL

SP 641C - REMOVAL OF PAVEMENT MARKINGS

ALL EXISTING PAVEMENT MARKINGS WHICH ARE IN CONFLICT WITH THE PROPOSED MAINTENANCE OF TRAFFIC PAVEMENT MARKINGS ARE TO BE REMOVED AS PER SP641C - REMOVAL OF

REMOVAL OF EXISTING CONFLICTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY EITHER GRINDING OR WATER BLAST AS APPROVED BY THE CHIEF ENGINEER, IN ACCORDANCE WITH SP 641C. IN NO INSTANCE SHALL BLACKOUT TAPE BE USED. MEASUREMENT OF THIS ITEM SHALL BE IN ACCORDANCE WITH SP 641C AND SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTALS NECESSARY TO REMOVE CONFLICTING PAVEMENT MARKINGS TO THE SATISFACTION OF THE CHIEF ENGINEER.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE MAINTENANCE OF TRAFFIC GENERAL SUMMARY TO BE UTILIZED AS DIRECTED BY THE CHIEF ENGINEER.

SP 641C - REMOVAL OF PAVEMENT MARKING 15.10 MILE

SP 621 - RAISED PAVEMENT MARKERS

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE MAINTENANCE OF TRAFFIC GENERAL SUMMARY FOR USE AS DIRECTED BY THE CHIEF ENGINEER FOR CONTINGENCY PURPOSES ONLY. THESE ITEMS ARE TO BE USED TO REPLACE OR REPAIR DAMAGED RAISED PAVEMENT MARKERS IN THE EASTBOUND AND WESTBOUND TURNPIKE LANES

SP 621 RAISED PAVEMENT MARKER -

STIMSONITE MODEL 101 LPCR <u>25</u> EACH

SP 621 REPLACEMENT PRISMATIC RETRO-REFLECTOR 25 EACH

SP 621 REPLACEMENT RAISED PAVEMENT MARKER CASTING -STIMSONITE MODEL 101 LPCR 25 EACH

GUARDRAIL DELINEATION

GUARDRAIL DELINEATION FROM MP 90.00 TO MP 95.90 SHALL CONSIST OF AKT CORPORATION MODEL 567 ONE-WAY DELINEATORS INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S PRINTED INSTRUCTIONS. THE DELINEATORS SHALL BE SPACED 100' (MIN.), WITH ALL GUARDRAIL RUNS HAVING NO LESS THAN 2 DELINEATORS (ONE DELINEATOR ON THE BEGIN AND ONE ON THE END OF THE GUARDRAIL RUN).

PAYMENT FOR GUARDRAIL DELINEATION SHALL BE INCLUDED WITH ITEM SP 614 MAINTAINING TRAFFIC. SUCH PAYMENT SHALL INCLUDE PROVIDING, INSTALLING, MAINTAINING, REPLACING DAMAGED DELINEATORS AND REMOVING, AS SPECIFIED, FOR THE ABOVE SAID GUARDRAIL DELINEATION

DUST CONTROL

THE CONTRACTOR SHALL FURNISH AND APPLY WATER FOR DUST CONTROL AS DIRECTED BY THE CHIEF ENGINEER. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED FOR DUST CONTROL PURPOSES:

ITEM 616 - WATER 1,500 M GAL

LANE CLOSURE RESTRICTION

THE OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION WILL NOT ALLOW THE CLOSURE OF THE TWO (2) TRAFFIC LANES WHICH ARE LOCATED ON THE OPPOSITE SIDE OF THE BASE REPLACEMENT WORK AFTER THE CONTRAFLOW TRAFFIC PATTERN IS IN OPERATION. THE CONTRACTOR SHALL SCHEDULE THEIR WORK SO THAT A LANE CLOSURE OF EITHER OF THESE TWO (2) LANES IS NOT REQUIRED DURING THE DURATION OF EACH PHASE OF CONSTRUCTION.

METHOD OF PAYMENT FOR MAINTAINING TRAFFIC

PAYMENT FOR THE MAINTENANCE OF TRAFFIC ITEMS INCLUDING DETOUR SIGNING AND LEVEL "2" TEMPORARY GROUND MOUNTED GUIDE SIGNS, UNLESS OTHERWISE SPECIFIED SEPARATELY, SHALL BE AT THE LUMP SUM PRICE BID FOR ITEM SP614-MAINTAINING TRAFFIC, WHICH SHALL INCLUDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS REQUIRED TO COMPLETE THE WORK AS DETAILED IN THE PLANS.

SIGN COVERS AND OVERLAYS

THE CONTRACTOR SHALL COVER ALL PERMANENT SIGNS, OR PORTIONS THEREOF, AS REQUIRED BY THE PLANS. SIGN COVERS SHALL BE FURNISHED BY THE COMMISSION. THE CONTRACTOR SHALL RETURN THE SIGN COVERS TO THE COMMISSION AT THE END OF THE CONTRACT.

SIGN OVERLAYS FOR OVERHEAD SIGNS SHALL BE OF THE SAME COLOR AS THE BACKGROUND OF THE SIGN OR BE IN ACCORDANCE WITH ODOT OR OTIC MAINTENANCE OF TRAFFIC SIGNING. THE SIGN OVERLAYS SHALL BE HIGH INTENSITY GRADE SHEETING (TYPE G) ON 0.080 INCH THICK ALUMINUM SECURELY RIVETED TO THE SIGN FACE, AND SHALL BE FURNISHED, INSTALLED AND REMOVED BY THE CONTRACTOR

PAYMENT FOR ALL LABOR, MATERIAL AND EQUIPMENT ASSOCIATED WITH THIS WORK SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM SP 614 - MAINTAINING TRAFFIC.

ADDENDUM NO. 1 ADDENDUM NO. 2

OHIO TURNPIKE AND IINFRASTRUCTURE COMMISSION

MAINTENANCE OF TRAFFIC NOTES SHEET 3 OF 5 SANDUSKY COUNTY

	520 South Ma	Glaus, P	D GRO yle, Schomer, Bu alte 2531, Akro	ros & Dellave	m, Inc. 111 Fa	330-572-2 x 330-572-2
ı	DESIGNED:	ADG	CHECKED:	LOB	DATE:	08/26/16
	DDAWN:	ADG	IN CHARGE:	MPC	SCALE:	NTC

0

0

0

PROJECT NO. 39-17-01 SHEET 18 OF 272

0

0

0

IF THE CONTRACTOR SO ELECTS, HE OR SHE MAY PROPOSE AN ALTERNATE METHOD OR METHODS FOR MAINTAINING TRAFFIC, PROVIDED THE INTENT OF THE ABOVE PROVISIONS AND SP 614 ARE FOLLOWED AND NO ADDITIONAL INCONVENIENCE TO THE TRAVELING PUBLIC

IF THE CONTRACTOR ELECTS TO PROPOSE AN ALTERNATE MOT PHASE, SCHEME OR PLAN FROM THAT INCLUDED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PREPARE TO SCALE PLANS, EQUIVALENT TO THE LEVEL OF DETAIL OR MORE AS PROVIDED IN THE CONTRACT DOCUMENTS, WHICH ILLUSTRATE ALL ADVANCED WARNING AREA SIGNAGE, TRANSITION AREA(S) FOR TAPERS AND SHIFTS, SIGNAGE AND/ OR PAVEMENT MARKINGS, BUFFER SPACE, ACTIVITY OR WORK AREAS WHERE WORK IS TAKING PLACE, STAGING AREAS FOR WORKERS / MATERIALS / EQUIPMENT, AND TERMINATION AREA SHOWING TRAILING BUFFER SPACE AND TRANSITIONS OF TRAFFIC RETURNING TO NORMAL ALIGNMENT.

DETAILS OF ANY VARIATION FROM THE CONTRACT DOCUMENTS, SUCH AS THE PLACEMENT OF TEMPORARY PORTABLE BARRIER, TEMPORARY SHEETING, TEMPORARY BARRIER VEHICLES, TEMPORARY SIGNALS, TEMPORARY IMPACT ATTENUATORS, COVERING OF EXISTING SIGNAGE, REMOVAL OF PAVEMENT MARKINGS, ETC. SHOULD ALSO BE PROVIDED. BOTH MILEPOSTS AND STATIONS SHALL BE PROVIDED TO IDENTIFY ALL LOCATIONS OF SIGNS OR DEVICES.

THE PROPOSED ALTERNATE PLAN IS TO ADDRESS THE ENTIRE PROJECT AND/ OR ADJACENT PROJECT MOT PLANS AND ANY REQUIRED CORRECTIONS TO ALREADY EXISTING MOT. TRAFFIC FLOW ARROWS SHALL BE SHOWN ON THE PLANS TO CLEARLY INDICATE EACH LANE OF TRAFFIC

THE ALTERNATE MOT PLANS SHALL BE PREPARED, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED AND REGISTERED IN THE STATE OF OHIO WHO IS KNOWLEDGEABLE ABOUT FUNDAMENTAL PRINCIPLES OF TEMPORARY TRAFFIC CONTROL AND WORK ACTIVITIES TO BE PERFORMED. ALTERNATE MOT PLANS SHALL BE SUBMITTED TO THE CHIEF ENGINEER FOR REVIEW AND APPROVAL.

THE CHIEF ENGINEER WILL REQUIRE A 14 DAY REVIEW PERIOD TO EVALUATE THE PROPOSED ALTERNATE MOT PLAN. NO ALTERNATE PLANS SHALL BE PLACED INTO EFFECT UNTIL APPROVAL HAS BEEN GRANTED IN WRITING BY THE CHIEF ENGINEER. ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH SP 614 AND ALL OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE CURRENT VERSION OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION STANDARDS. ALL COSTS ASSOCIATED WITH THE PROPOSED ALTERNATE MOT PLAN WILL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR NO ADDITIONAL COMPENSATION WILL

ITEM 614 - WORK ZONE IMPACT ATTENUATOR FOR 24" WIDE HAZARDS (UNIDIRECTIONAL) THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING A NON-GATING IMPACT ATTENUATOR. FURNISH AN IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARD'S WEB PAGE FOR ROADWAY STANDARDS APPROVED PRODUCTS.

INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE CONTRACTOR SHALL REPAIR OR REPLACE A DAMAGED UNIT WITHIN 24 HOURS OF A DAMAGING IMPACT

WHEN BIDIRECTIONAL DESIGNS ARE SPECIFIED, THE CONTRACTOR SHALL SUPPLY APPROPRIATE

WHEN GATING IMPACT ATTENUATORS ARE DESIRED, THE CONTRACTOR SHALL SUBMIT DOCUMENTATION TO THE ENGINEER FOR ACCEPTANCE.

THE COST FOR THE ADDITIONAL BARRIER REQUIRED FOR A GATING IMPACT ATTENUATOR SHALL BE INCLUDED IN THE COST OF THE GATING IMPACT ATTENUATOR.

ANY IMPACT ATTENUATOR PLACED ON:

- NFW PAVEMENT
- PAVEMENT THAT IS NOT BEING REPLACED AS PART OF THIS PROJECT
- OR PAVEMENT ON AN ACCELERATION/DECELERATION RAMP

SHALL BE AN ANCHORLESS WATER-FILLED IMPACT ATTENUATOR. FURNISH AN ANCHORLESS WATER-FILLED IMPACT ATTENUATOR FROM THE OFFICE OF ROADWAY ENGINEERING'S APPROVED LIST FOR WORK ZONE IMPACT ATTENUATORS, FROM THE ROADWAY STANDARD'S WEB PAGE FOR ROADWAY STANDARDS APPROVED PRODUCTS

IMPACT ATTENUATORS SHOWN AND QUANTIFIED IN THE PLANS ARE FOR THE PROPOSED MAINTENANCE OF TRAFFIC PHASE LAYOUTS. ADDITIONAL IMPACT ATTENUATORS UTILIZED FOR PHASE SETUP, CONSTRUCTION ACCESS POINTS AND ALTERNATIVE MAINTENANCE OF TRAFFIC METHODS NOT DETAILED IN THESE PLANS SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM SP 614 - MAINTAINING TRAFFIC AND SHALL INCLUDE THE COST OF THE ATTENUATOR, LABOR, MATERIALS AND EQUIPMENT NECESSARY TO SET, RESET AND REMOVE THE IMPACT ATTENUATOR.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT, MAINTAIN AND REMOVE COMPLETE AND FUNCTIONAL IMPACT ATTENUATOR SYSTEM, INCLUDING ALL RELATED BACKUPS, TRANSITIONS, LEVELING PADS, HARDWARE AND GRADING, NOT SEPARATELY SPECIFIED. AS REQUIRED BY THE MANUFACTURER. ANCHOR REMOVAL CAN CAUSE DAMAGE TO THE PAVEMENT SURFACE. PAYMENT SHALL INCLUDE REPAIRING ANY DAMAGE CAUSED DURING REMOVAL.

ITEM 614 PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, FOUR (4) PORTABLE CHANGEABLE MESSAGE SIGNS (PCMB). TWO (2) OF THE SIGNS SHALL BE LOCATED NEAR THE PROJECT SITE, ONE FOR EACH DIRECTION OF TRAVEL, FOR THE DURATION OF THE PROJECT. TWO OF THE SIGNS SHALL BE LOCATED APPROXIMATELY TWENTY-FIVE (25) MILES OUTSIDE THE PROJECT LIMITS, ONE FOR EACH DIRECTION OF TRAVEL, AS DIRECTED BY THE ENGINEER FOR THE DURATION OF THE PROJECT. THE SIGNS SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED CLASS "A" PCMB UNITS MAINTAINED BY THE ODOT DIRECTOR (OFFICE OF MATERIALS MANAGEMENT). THE APPROVED LIST OF PORTABLE CHANGEABLE MESSAGE SIGNS CAN BE FOUND ON THE ODOT WEBSITE BY CLICKING ON THE SERVICES MENU, THEN CLICKING ON MATERIALS MANAGEMENT.

EACH SIGN SHALL BE TRAILER-MOUNTED AND EQUIPPED WITH A FUNCTIONAL DIMMING MECHANISM, TO DIM THE SIGN DURING DARKNESS, AND A TAMPER AND VANDAL PROOF ENCLOSURE. EACH SIGN SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE ON—SITE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT. THE SIGN SHALL ALSO BE CAPABLE OF BEING POWERED BY AN ELECTRICAL SERVICE DROP FROM A LOCAL UTILITY COMPANY. PCMB SHALL BE DELINEATED ON A PERMANENT BASIS IN ACCORDANCE WITH ODOT CMS 614.03.

THE PCMB LOCATIONS, LIMITS FOR THOSE LOCATIONS AND ALL ACTIVATION OF PCMB SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE CHIEF ENGINEER. THE PCMB SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE CHIEF ENGINEER, RELOCATE THE PCMB TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMB SHALL BE TURNED OFF. ADDITIONALLY, WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMB SHALL BE TURNED, FACING AWAY FROM ALL TRAFFIC, AND SHALL DISPLAY ONE OR MORE TYPE G YELLOW RETROREFLECTIVE SHEETING SURFACES OF 9-INCH BY 15-INCH MINIMUM SIZE

THE CHIEF ENGINEER SHALL BE PROVIDED ACCESS TO EACH SIGN UNIT AND SHALL BE PROVIDED WITH APPROPRIATE TRAINING AND OPERATION INSTRUCTIONS TO ENABLE TURNPIKE MAINTENANCE PERSONNEL TO OPERATE AND TROUBLESHOOT THE UNIT, AND TO REVISE SIGN MESSAGES, IF NECESSARY,

ALL MESSAGES TO BE DISPLAYED ON THE SIGN WILL BE PROVIDED BY THE CHIEF ENGINEER. A LIST OF ALL REQUIRED PRE-PROGRAMMED MESSAGES WILL BE GIVEN TO THE CONTRACTOR AT THE PROJECT PRE-CONSTRUCTION CONFERENCE. THE SIGN SHALL HAVE THE CAPABILITY TO STORE UP TO 99 MESSAGES. MESSAGE MEMORY OR PRE-PROGRAMMED DISPLAYS SHALL NOT BE LOST AS A RESULT OF POWER FAILURES TO THE ON-BOARD COMPUTER. THE SIGN LEGEND SHALL BE CAPABLE OF BEING CHANGED IN THE FIELD. THREE-LINE PRESENTATION FORMATS WITH UP TO SIX MESSAGE PHASES SHALL BE SUPPORTED. PCMB FORMAT SHALL PERMIT THE COMPLETE MESSAGE FOR EACH PHASE TO BE READ AT LEAST TWICE.

THE PCMB SHALL CONTAIN AN ACCURATE CLOCK AND PROGRAMMING LOGIC WHICH WILL ALLOW THE SIGN TO BE ACTIVATED, DEACTIVATED OR MESSAGES CHANGED AUTOMATICALLY AT DIFFERENT TIMES OF THE DAY FOR DIFFERENT DAYS OF THE WEEK

THE PCMB SHALL CONTAIN A CELLULAR TELEPHONE DATA LINK WHICH WILL (IN ACTIVE CELLULAR PHONE AREAS) ALLOW REMOTE ACTIVATION, MESSAGE CHANGES, MESSAGE ADDITIONS AND REVISIONS TO TIME OF DAY PROGRAMS. THE SYSTEM SHALL ALSO PERMIT VERIFICATION OF CURRENT AND PROGRAMMED MESSAGES. THE PCMB UNIT SHALL CONTAIN A GPS DEVICE WHICH WILL SHOW IT'S LOCATION ON A MAP WHICH CAN BE VIEWED REMOTELY BY THE OTIC COMMUNICATIONS CENTER. ONE REMOTE DATA INPUT DEVICE (LAPTOP COMPUTER PLUS MODEM OR EQUIVALENT) SHALL BE FURNISHED FOR USE BY THE OTIC COMMUNICATIONS CENTER, OR EQUIVALENT, AND SHALL BE INSURED AGAINST THEFT.)

WHEN A PCMB IS INITIALLY BROUGHT OUT TO THE PROJECT THE CONTRACTOR SHALL CONTACT THE OTIC COMMUNICATIONS CENTER WITH THE PCMB NUMBER AND LOCATION. AT THAT TIME THE OTIC COMMUNICATIONS WILL VERIFY COMMUNICATION WITH THE PCMB.

WHEN A PCMB IS REPLACED OR RELOCATED THE CONTRACTOR SHALL CONTACT THE OTIC COMMUNICATIONS CENTER WITH THE PCMB NUMBER AND LOCATION.

THE PCMB UNIT SHALL BE MAINTAINED IN GOOD WORKING ORDER BY THE CONTRACTOR IN ACCORDANCE WITH THE PROVISIONS OF ODOT CMS 614.07. THE CONTRACTOR SHALL, PRIOR TO ACTIVATING THE UNIT, MAKE ARRANGEMENTS WITH AN AUTHORIZED SERVICE AGENT FOR THE PCMB, TO ASSURE PROMPT SERVICE IN THE EVENT OF FAILURE. ANY FAILURE SHALL NOT RESULT IN THE SIGN BEING OUT OF SERVICE FOR MORE THAN 12 HOURS, INCLUDING WEEKENDS. FAILURE TO COMPLY MAY RESULT IN AN ORDER TO STOP WORK AND OPEN ALL TRAFFIC LANES AND/OR IN THE CHIEF ENGINEER TAKING APPROPRIATE ACTION TO SAFELY CONTROL TRAFFIC. THE ENTIRE COST TO CONTROL TRAFFIC, ACCRUED BY THE OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION DUE TO THE CONTRACTOR'S NONCOMPLIANCE, WILL BE DEDUCTED FROM MONEYS DUE, OR TO BECOME DUE THE CONTRACTOR ON THEIR CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR 24-HOUR-PER-DAY OPERATION AND MAINTENANCE OF THESE SIGNS ON THE PROJECT FOR THE DURATION OF THE PHASES WHEN THE PLAN REQUIRES THEIR USE.

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK. THE CONTRACTOR SHALL ONLY BE PAID FOR PCMB UNITS WHEN THEY ARE IN OPERATION ON THE PROJECT AS SPECIFIED IN THE PLANS OR BY THE CHIEF ENGINEER.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE CHIEF ENGINEER TO PROVIDE FOUR (4) PORTABLE CHANGEABLE MESSAGE SIGNS, EACH SIGN FOR APPROXIMATELY 120 DAYS, FOR AN ESTIMATED TOTAL OF 480 DAYS.

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN 480 DAY

ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC

THIS ITEM SHALL CONSIST OF THE CONTRACTOR PROVIDING ITEM—614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC. THIS ITEM SHALL BE USED FOR WEDGING PURPOSES TO AID IN TRANSITIONING TRAFFIC FROM NORMAL TO MILLED SURFACE AND BACK AT THE PERTINENT TOLL/SERVICE PLAZAS FOR EACH PART OF THE CONTRACT. SMOOTH TRANSITIONS BETWEEN MILLED SURFACES AND PAVED SURFACES SHALL BE MAINTAINED AT ALL TIMES AT TOLL/SERVICE PLAZA ENTRANCE/EXIT. AT NO TIME SHALL TRAFFIC BE SUBJECTED TO SUDDEN DIPS, DROP-OFFS OR BUMPS. ASPHALT WEDGING OF TRANSITION AREAS SHALL BE IN ACCORDANCE WITH ODOT STANDARD DRAWING MT-101.90. MATERIAL SUPPLIED FOR THIS ITEM SHALL COMPLY WITH THE REQUIREMENTS OF 614.13.

PAYMENT FOR THIS ITEM SHALL INCLUDE ALL LABOR, EQUIPMENT AND MATERIAL AND INCIDENTALS NECESSARY TO COMPLETE THIS ITEM INCLUDING PLACING AND REMOVING THE ASPHALT CONCRETE. THIS ITEM SHALL BE PAID FOR AT THE UNIT BID PRICE FOR ITEM 614 -ASPHALT CONCRETE FOR MAINTAINING TRAFFIC.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE CHIEF ENGINEER FOR THE MAINTENANCE OF TRAFFIC.

ITEM 614 - ASPHALT CONCRETE FOR MAINTAINING TRAFFIC100 CU. YD.

RECONSTRUCTED SHOULDER
WHERE REQUIRED FOR THE MAINTENANCE OF RAMP TRAFFIC, A QUANTITY OF TEMPORARY PAVEMENT HAS BEEN PROVIDED TO ENSURE THAT SHOULDER PAVEMENT WILL SUPPORT TRAFFIC DURING CONSTRUCTION OPERATIONS. EXISTING RAMP AND ROADWAY SHOULDERS IMPACTED BY THE MAINTENANCE OF TRAFFIC SHALL BE RECONSTRUCTED TO THE SAME SLOPE AS THE EXISTING SHOULDER PAVEMENT

RECONSTRUCTED SHOULDER SHALL BE AS PER THE SPECIFICATIONS OF ITEM 615 PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A AND SHALL BE CONSTRUCTED TO THE SAME WIDTH AS THE EXISTING SHOULDER. THE RECONSTRUCTED SHOULDER SHALL REMAIN IN PLACE AFTER THE COMPLETION OF CONSTRUCTION ACTIVITIES.

ALL COSTS AND MATERIALS ASSOCIATED WITH SHOULDER RECONSTRUCTION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 615 — PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A.

ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN

THIS ITEM SHALL BE AS PER SECTION 615 OF THE ODOT C&MS. IN ADDITION PAYMENT FOR THIS ITEM SHALL INCLUDE ALL LABOR, MATERIALS AND ALL OTHER WORK NECESSARY TO THE CONSTRUCTION AND PLACEMENT OF TEMPORARY PAVEMENT REQUIRED FOR THE MAINTENANCE OF TRAFFIC WHERE SPECIFIED IN THESE PLANS.

PER 254.05 PAVEMENT SURFACE TOLERANCES SHALL BE WITHIN 1/8 INCH PER TEN

ALL COSTS FOR THE PLACEMENT OF THE TEMPORARY PAVEMENT, LABOR AND MATERIALS, REMOVAL AND RESTORATION AT PROJECT COMPLETION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 615 - PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A. AS PER PLAN.

IN ADDITION, ALL COSTS ASSOCIATED WITH MAINTENANCE OF TRAFFIC DRAINAGE ITEMS, LABOR AND MATERIALS, INCLUDING ANY TEMPORARY RELOCATION AND RESTORATION OF UTILITIES DISTRUBED AND SITE RESTORATION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 615 — PAVEMENT FOR MAINTAINING TRAFFIC, CLASS A, AS PER PLAN.

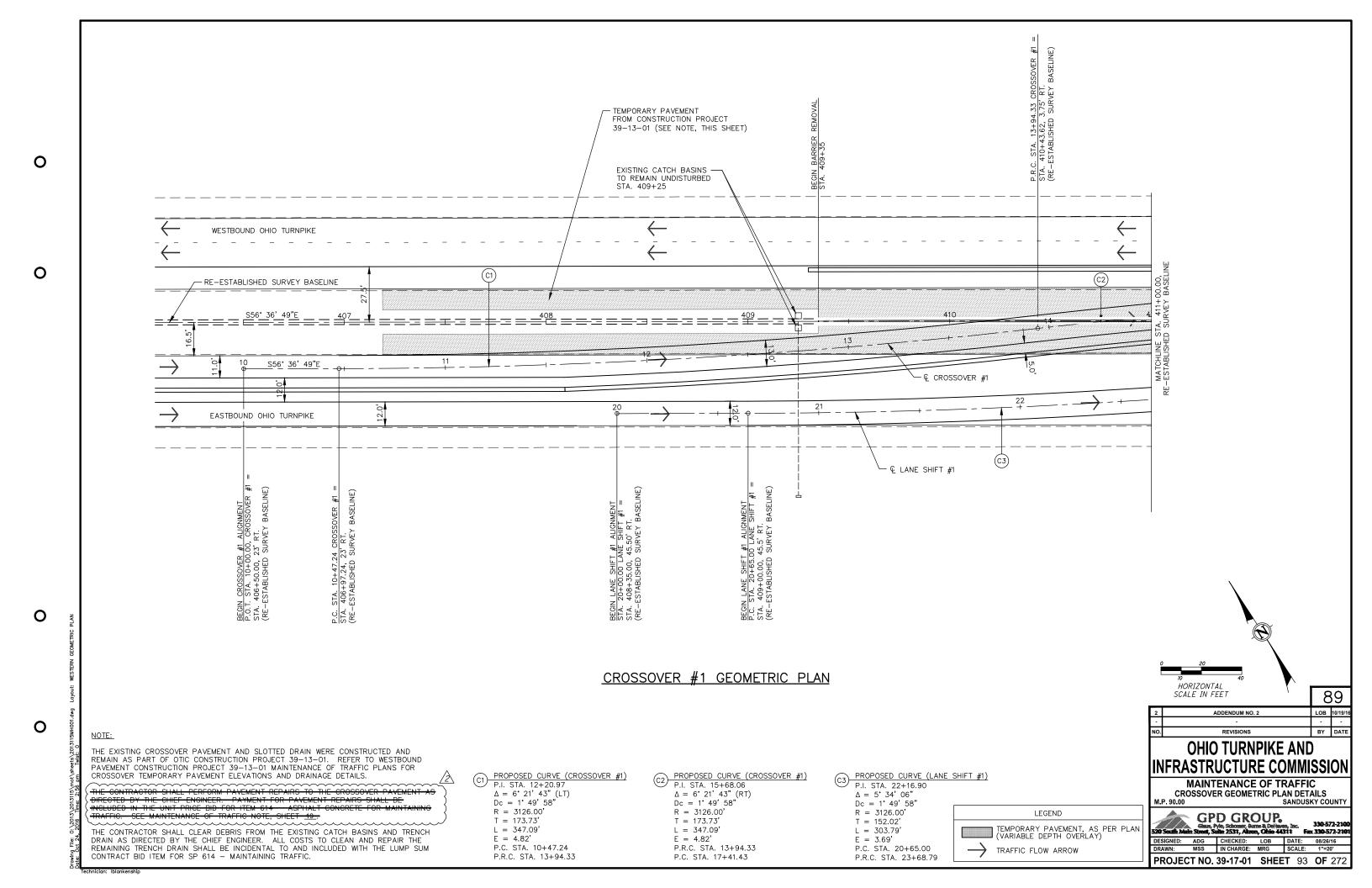
2	ADDENDUM NO. 2	LOB	10/19/16
10.	REVISIONS	BY	DATE
IN	OHIO TURNPIKE AND IFRASTRUCTURE COMMI		ON
	MAINTENANCE OF TRAFFIC NO SHEET 4 OF 5 SANDUSI		
_	GPD GROUP.	330.53	m 2100

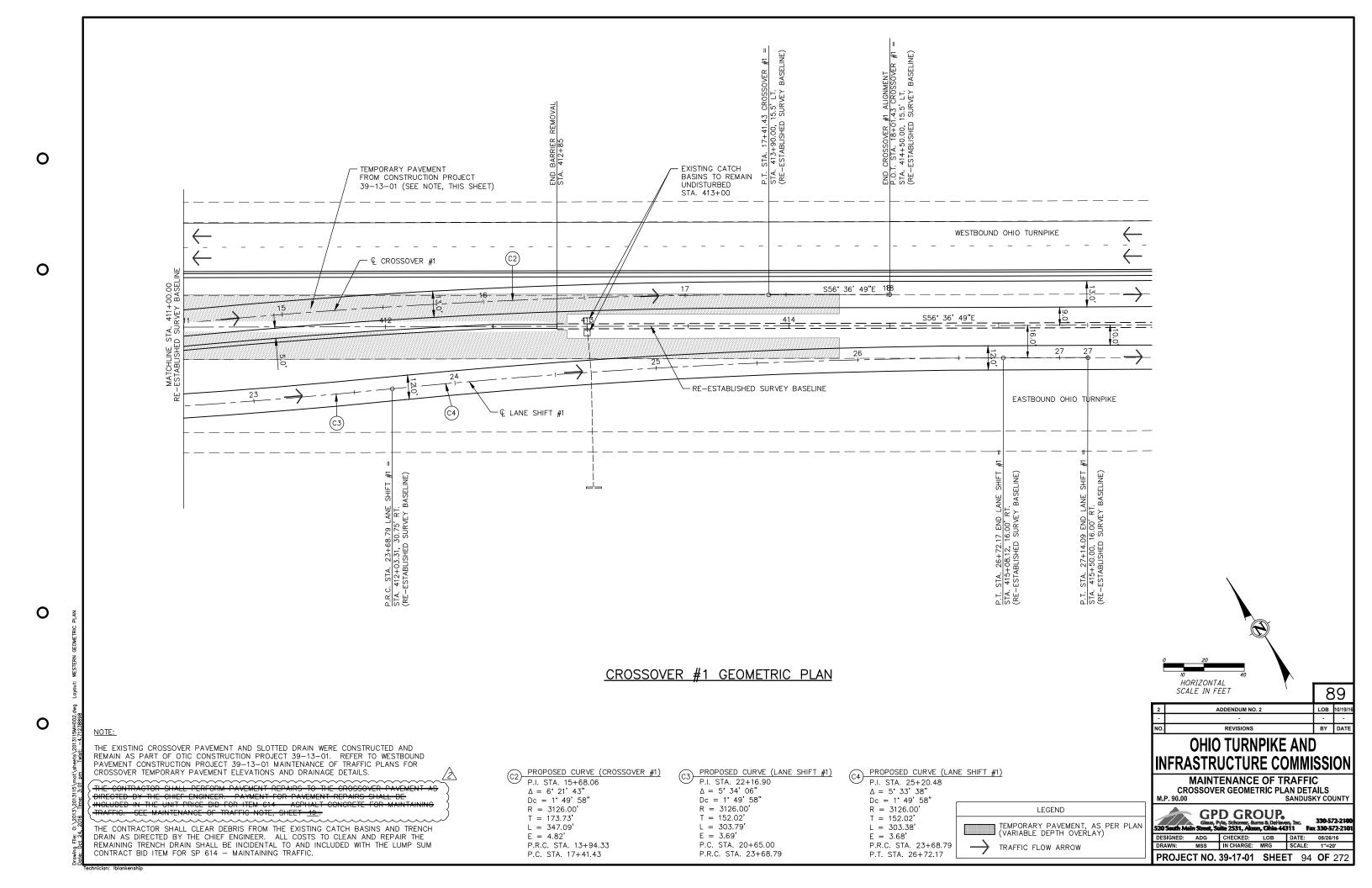
Giaus, Pyle, Schomer, Burns & Del·laven, Inc. 339-572-2104 20 South Main Street, Suite 2531, Akron, Chio 44311 Fax 330-572-2107

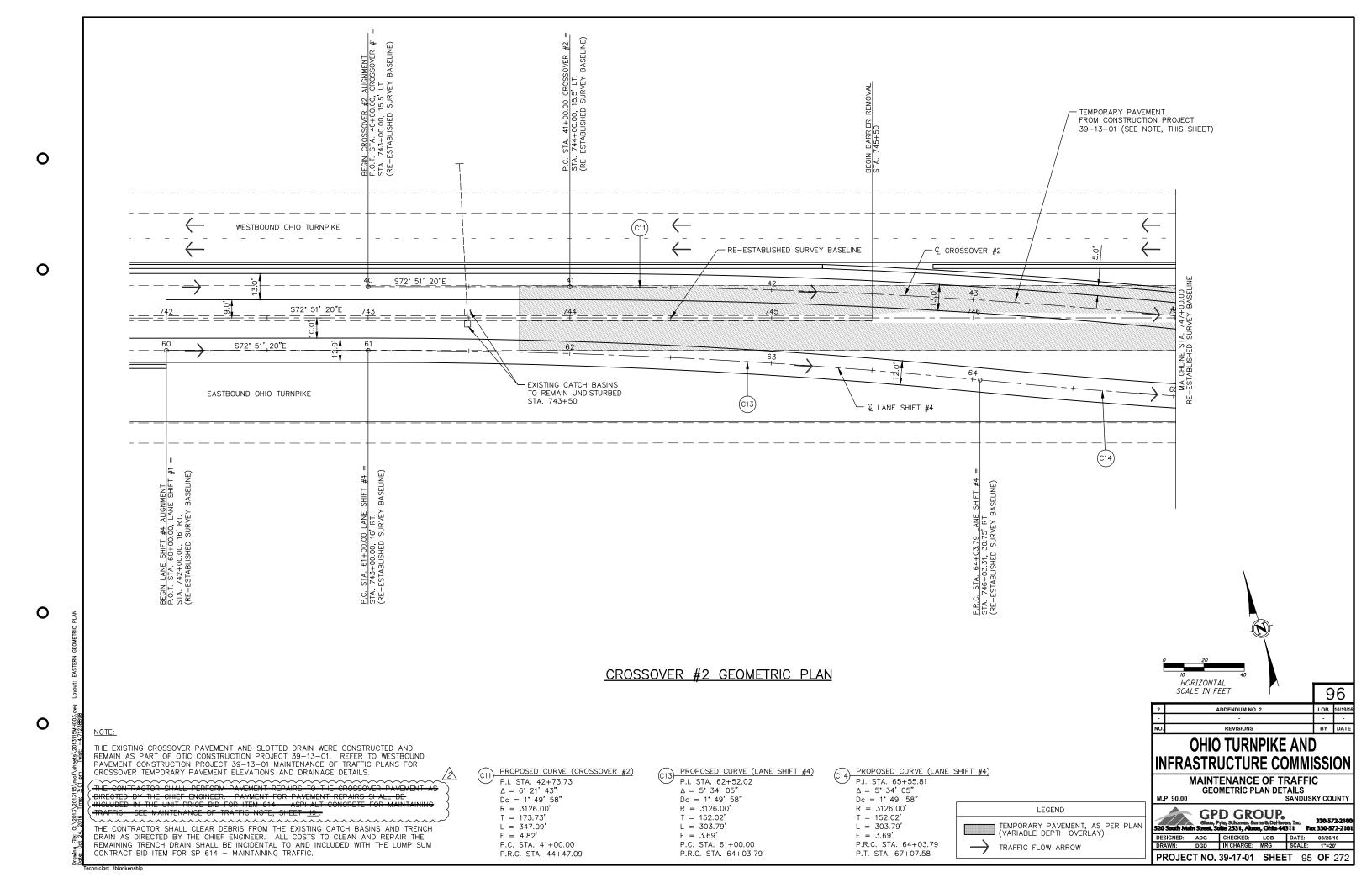
PROJECT NO. 39-17-01 SHEET 19 OF 272

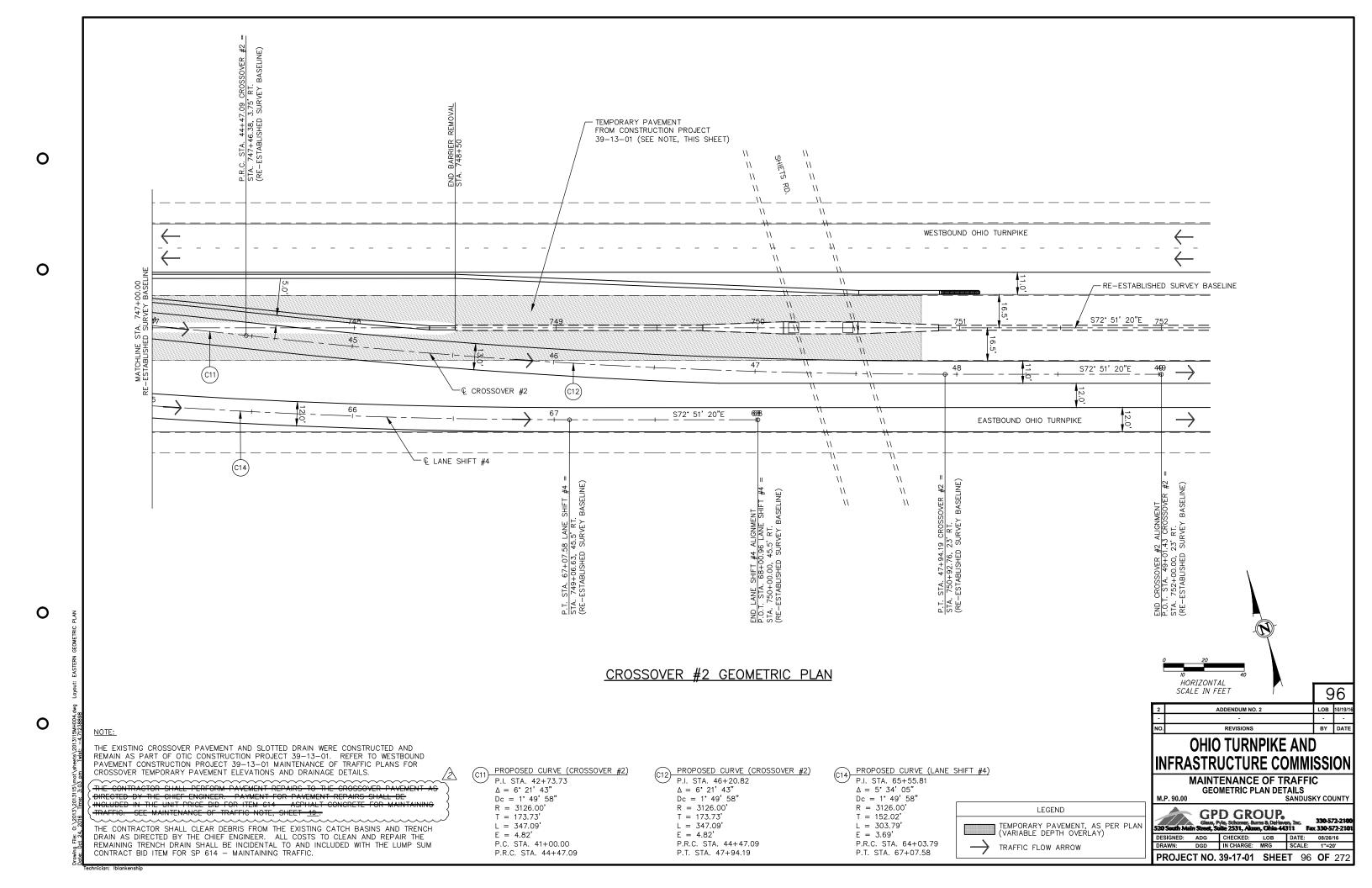
LOB DATE:

ADDENDUM NO. 1









•	10 14	40	40	44	4-	407	400		EET NUMBER		INIOEDT 4	NOEDTO	ITEM	GRAND TOTAL	UNIT DESCRIPTION
9	10 11	12	13	14	15	107	108	109	111 112		INSERT 1	NSERT 2		TOTAL	ROADWAY
													201	LUMP	
							24						202	24	EACH CATCH PASIN OF INI ET DEMOVED
							1360						202	1360	ET DIDE DEMONIES
						14883	1000						202	14883	FT GUARDRAIL REMOVED
	3075					14003							202	3075	FT GUARDRAIL REMOVED FOR SALVAGE, AS PER PLAN
	3075												202	3075	FI GUARDICAL REMOVED FOR SALVAGE, AS FER FEAR
							9						202	9	EACH HEADWALL REMOVED
						3879	-						202	3879	FT CURB REMOVED
						398							202	398	FT CONCRETE BARRIER REMOVED
									120080				202	120080	SQ YD PAVEMENT REMOVED
				6	692	2064			27284				203	30040	CU YD EXCAVATION
			1800										203	1800	CU YD ROADWAY EXCAVATION AND EMBANKMENT
				4	462	2135							203	2597	CU YD EMBANKMENT
						1786							203	1786	CU YD EMBANKMENT WITH RACP, AS PER PLAN
						242					40267		204	40509	CU YD EXCAVATION INCLUDING EMBANKMENT, AS PER PLAN
											20133		203	20133	CU YD BORROW
															STATE OF ANY AS MATERIAL TOPS OF
											230		203	230	CU YD GRANULAR MATERIAL, TYPE C
											2862		203	2862	CU YD GRANULAR EMBANKMENT, AS PER PLAN (SHEAR KEY)
											95		203	95	CU YD GRANULAR EMBANKMENT, AS PER PLAN (NO. 8 AGGREGATE)
			178			3566							204	3744	CU YD EXCAVATION
											970		204	970	SQ YD GEOTEXTILE FABRIC, 712.09, TYPE A
											7329		204	7329	SQ YD GEOTEXTILE FABRIC, TYPE B
			227								1325	+	204	227	SQ YD TYPE D GEOTEXTILE, 712.09
			227			2002	} 		1636				204	1863	SQ YD SUBGRADE COMPACTION
			221			5.45	27		1030			+	209	5	NAME OF THE PROPERTY OF THE PR
		201			(3.45	20						SP 519	221	SQ FT PATCHING CONCRETE STRUCTURES
		201 51					20					+	SP 519C	51	SQ FT PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR
		51							1595				526	1595	SQ YD REINFORCED CONCRETE APPROACH SLAB, (T=12")
						1029			1393				SP 536	1029	SQ YD CONCRETE WEATHERPROOFING, BARRIERS AND PARAPETS
						15201							606	15201	FT GUARDRAIL, TYPE MGS, USING LONG STEEL POSTS
													 ""	10201	
						8							606	8	EACH ANCHOR ASSEMBLY, TYPE T, USING LONG STEEL POSTS
						6							606	6	EACH BRIDGE TERMINAL ASSEMBLY, TYPE 1, USING LONG STEEL POSTS
						8							606	8	EACH BRIDGE TERMINAL ASSEMBLY, TYPE 1, USING LONG STEEL POSTS, AS PER PLAN
						2							606	2	EACH BRIDGE TERMINAL ASSEMBLY, TYPE 2, USING LONG STEEL POSTS
						7							606	7	EACH BRIDGE TERMINAL ASSEMBLY, TYPE 2, USING LONG STEEL POSTS, AS PER PLAN
						12							606	12	EACH ANCHOR ASSEMBLY, MGS TYPE E, AS PER PLAN
						5865							609	5865	FT ASPHALT CONCRETE CURB, TYPE 1, PG64-22
						247							609	247	FT CURB, TYPE 4-C
						650							622	650	FT CONCRETE BARRIER, TYPE B-50, AS PER PLAN
						4							622	4	EACH CONCRETE BARRIER, END ANCHORAGE REINFORCED, TYPE B-50
						4							622	4	EACH CONCRETE BARRIER, END ANCHORAGE REINFORCED, TYPE D
						8							622	8	EACH CONCRETE BARRIER, END SECTION, TYPE D
		97				163					\rightarrow		622	163	FT CONCRETE BARRIER, SINGLE SLOPE, TYPE D, (42"), AS PER PLAN
		87									+		622	87	FT MEDIAN BARRIER WALL
			227		+						+		861	227	SQ YD GEOGRID FOR SUBGRADE STABILIZATION, AS PER PLAN, TENSAR TRIAX 160 GEOGRID
													301		50 15 STORIST ON OSSORISE STREET, NOT EXTEND, TENORY TRANSPORTED
											4030		SPECIAL	4030	CU YD LIMESTONE SAND
											1000				
															1 ADDENDUM NO. 1
															2 ADDENDUM NO. 2
															NO. REVISIONS

-	ADDENDOM NO. 2	ī	10/13/1
NO.	REVISIONS	BY	DATE
IN	OHIO TURNPIKE AND IFRASTRUCTURE COMMI		ON
	GENERAL SUMMARY		

M.P. 90.00 TO M.P. 95.90

19111 1 30100	10 1011 . 3	3,30		OANDOO	(1 000M11
520 South Ma	Glaus, F	D GRO yla, Schomer, Bu sibe 2531, Akro	rns & Delleiv	m. Inc.	330-572-210 330-572-210
DESIGNED:	CLH	CHECKED:	PJF	DATE:	08/26/16
DRAWN:	CLH	IN CHARGE:	MRG	SCALE:	N.T.S.

PROJECT NO. 39-17-01 SHEET 104 OF 272

1			1								EET NUMB		,				ITEM	GRAND	UNIT	DESCRIPTION	REF. N
1	9	10	11	12	13	14	15	107	108	109	111	112			INSI	ERT 1 INSERT 2	112.	TOTAL	0.1	BESSIAI TION	IXEI . IX
1																					
1																					
## SPECIAL STATE OF S																					DR-
																	_				DR-
									2									2	+		DR-
									1								SPECIAL	1			DR-
2 SPECIAL 2 1 1 1 1 1 1 1 1 1						250											SPECIAL	250	FT	PIPE CLEANOUT, 12" TO 24"	
2 SPECIAL 2 1 1 1 1 1 1 1 1 1																					
1,000						250											SPECIAL	250	FT	PIPE CLEANOUT, 27" TO 42"	
1,5966									2								SPECIAL	2	EACH	SECURING MANHOLE LID	
1,5966																					
1,5466																					
388					138565												206	138565	SQ YD	CEMENT STABILIZED SUBGRADE, 16" DEEP, AS PER PLAN	13
388					134565												206	134565	SQ YD	LIME-KILN DUST STABILIZED SUBGRADE, 16" DEEP, AS PER PLAN	13
1					3620												206	3620	TON	LIME-KILN DUST	13
10 10 10 10 10 10 10 10																	206				
10																	_				
964 977 947																					
964 977 947					90												206	90	HOUR	TEST ROLLING	
160 22776 1000 326 170 537 1000 1700			544																1		1
173 193 190 294 179 5070 7 AVENERY FLANGE, SERVACE CONCRETE (1679) 190											28774						_				+
19 19 19 19 19 19 19 19	97		100													1000					
992 178 178 179 179 179 179 179 179	134															1000	_				+
	134										3130						254	3330	30 10	TAVEINENT EARING, ACTUAL TOMORETE (VARIABLE DE 111)	
			E42														255	512	80 VD	CILL DEDTH DAVEMENT DEMOVAL AND DIGID DEDLACEMENT	_
176 1977			312								20524										
178				-										+			_				
1977 9*402 1577 170 17					470						28493										
SP 402 4346					178												_				_
198 9 # 403 196 197 197 198 19											1577						SP 402	1577	CU YD	ASPHALI CONC. BASE COURSE OR RECYCLED ASPHALI CONC. BASE COURSE, PG64-22	
198 9 # 403 196 197 197 198 19																				ACTUAL TOOLS DAGE COURSE OF PERIOD FOR ACTUAL TOOLS DAGE COURSE FOR SO (FR)	
1922 1932 58 89 49 1352 193											4346										
\$ 58 \$ \$9.404 \$733 \$ CU YD \$ \$59.41 CONSTRUCT COORDER SURFACE COURSE, USING CRUSHED SLAG, PGT0-22 [FR] \$ \$1250 \$ \$9.404 \$783 \$ CU YD \$ \$59.41 CU YD \$ \$10.0000 \$ \$10.000 \$ \$10.0		136															_				
1500 SP 4007 ST 4007																					
23823 100 SP 407 22723 GALLON TRACKLESS TACK 23900 LB CRACK SEALING, TYPE 23900 Conference 24900 Conference 249	12																_				
23300											57547					1260	SP 404A	58807	FT	JOINT SEALER	
23300																					
1 1 1 1 1 1 1 1 1 1											23623					100	SP 407	23723			
995 5/2 10		23300							<u></u>								423	23300			
SPEZIA 402 TON STONE SHOULDER PROTECTION SPECIAL 18.86 MILE SONIG NAP ALERT PATTERN (SNAP) MAINTENANCE OF TRAFFIC GENERAL SUMMARY SEE SHEET FOR MAINTENANCE OF TRAFFIC GENERAL SUMMARY SEE SHEET TRAFFIC CONTROL FOR TRAFFIC CONTROL GENERAL SUMMARY SEE SHEET BRIDGE MAINTENANCE FOR BRIDGE MAINTENANCE FOR BRIDGE MAINTENANCE SPECIAL 18.86 MILE BRIDGE MAINTENANCE FOR BRIDGE MAINTENANCE FOR BRIDGE MAINTENANCE SPECIAL 18.86 MILE BRIDGE MAINTENANCE FOR BRIDGE MAINTENANCE SPECIAL 18.86 MILE FOR MAINTENANCE FOR BRIDGE MAINTENANCE SPECIAL MILE FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET BRIDGE MAINTENANCE FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET SPECIAL 18.86 MILE FOR MAINTENANCE OF TRAFFIC GENERAL SUMMARY SEE SHEET BRIDGE MAINTENANCE FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET BRIDGE MAINTENANCE S							(9325	<u>}/2\</u>									9325	SQ YD	SHOULDER PREPARATION AS REP BLAN	9
S 5.86 SPECIAL 18.86 MILE SONIC NAP ALERT PATTERN (SNAP) MAINTENANCE OF TRAFFIC FOR NAINTENANCE OF TRAFFIC FOR NAINTENANCE OF TRAFFIC GENERAL SUMMARY SEE SHEET TRAFFIC CONTROL FOR TRAFFIC CONTROL GENERAL SUMMARY SEE SHEET BRIDGE MAINTENANCE FOR RENDE MAINTENANCE FOR RENDE MAINTENANCE SUMMARIES SEE SHEET BRIDGE MAINTENANCE FOR RENDE MAINTENANCE SUMMARIES SEE SHEET SET 19 LUMP 1 PREMIUM FOR CONTRACT PERFORMANCE SOND AND PAYMENT BOND SP 191 LUMP 1 RAIL ROAD PROTECTIVE LIABILITY INSURANCE · NS SP 692 LUMP 1 FIELD OFFICE SP 693 LUMP 1 CONSTRUCTION LAYOUT SURVEY SP 694 LUMP 1 MAINTAINNO TRAFFIC								704									SP 617	704	CUYD	COMPACTED AGGREGATE	
MAINTENANCE OF TRAFFIC FOR MAINTENANCE OF TRAFFIC FOR MAINTENANCE OF TRAFFIC GENERAL SUMMARY SEE SHEET TRAFFIC CONTROL FOR TRAFFIC CONTROL GENERAL SUMMARY SEE SHEET BRIDGE MAINTENANCE BRIDGE MAINTENANCE SUMMARIES SEE SHEET FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET BRIDGE MAINTENANCE SUMMARIES SEE SHEET BRIDGE MAINTENANCE SUMMARY SEE SHEET BRIDGE BRIDGE MAINTENANCE SUMMARY SEE SHEET BRIDGE BRIDGE MAINTENANCE SU								402									SP 627 _∧	(402)	TON	STONE SHOULDER PROTECTION	
MAINTENANCE OF TRAFFIC FOR MAINTENANCE OF TRAFFIC FOR MAINTENANCE OF TRAFFIC GENERAL SUMMARY SEE SHEET TRAFFIC CONTROL FOR TRAFFIC CONTROL GENERAL SUMMARY SEE SHEET BRIDGE MAINTENANCE BRIDGE MAINTENANCE SUMMARIES SEE SHEET FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET BRIDGE MAINTENANCE SUMMARIES SEE SHEET BRIDGE MAINTENANCE SUMMARY SEE SHEET BRIDGE BRIDGE MAINTENANCE SUMMARY SEE SHEET BRIDGE BRIDGE MAINTENANCE SU																	/1\				
FOR MAINTENANCE OF TRAFFIC GENERAL SUMMARY SEE SHEET TRAFFIC CONTROL FOR TRAFFIC CONTROL GENERAL SUMMARY SEE SHEET BRIDGE MAINTENANCE FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET BRIDGE MAINTENANCE SUMMARIES SEE SHEET GENERAL GENERAL JENNION FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET JENNION FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET JENNION FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET GENERAL JENNION FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET JENNION FOR BRIDGE MAINTENANCE SUMMARY SEE SHEET JENNION FOR BRIDGE MAIN	13										5.86						SPECIAL	18.86	MILE	SONIC NAP ALERT PATTERN (SNAP)	
FOR MAINTENANCE OF TRAFFIC GENERAL SUMMARY SEE SHEET TRAFFIC CONTROL FOR TRAFFIC CONTROL GENERAL SUMMARY SEE SHEET BRIDGE MAINTENANCE FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET BRIDGE MAINTENANCE SUMMARIES SEE SHEET GENERAL GENERAL JENNION FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET JENNION FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET JENNION FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET GENERAL JENNION FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET JENNION FOR BRIDGE MAINTENANCE SUMMARY SEE SHEET JENNION FOR BRIDGE MAIN																					
FOR MAINTENANCE OF TRAFFIC GENERAL SUMMARY SEE SHEET TRAFFIC CONTROL FOR TRAFFIC CONTROL GENERAL SUMMARY SEE SHEET BRIDGE MAINTENANCE FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET BRIDGE MAINTENANCE SUMMARIES SEE SHEET GENERAL GENERAL JENNION FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET JENNION FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET JENNION FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET GENERAL JENNION FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET JENNION FOR BRIDGE MAINTENANCE SUMMARY SEE SHEET JENNION FOR BRIDGE MAIN																					
FOR MAINTENANCE OF TRAFFIC GENERAL SUMMARY SEE SHEET TRAFFIC CONTROL FOR TRAFFIC CONTROL GENERAL SUMMARY SEE SHEET BRIDGE MAINTENANCE FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET BRIDGE MAINTENANCE SUMMARIES SEE SHEET GENERAL GENERAL JENNION FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET JENNION FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET JENNION FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET GENERAL JENNION FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET JENNION FOR BRIDGE MAINTENANCE SUMMARY SEE SHEET JENNION FOR BRIDGE MAIN																					
FOR MAINTENANCE OF TRAFFIC GENERAL SUMMARY SEE SHEET TRAFFIC CONTROL FOR TRAFFIC CONTROL GENERAL SUMMARY SEE SHEET BRIDGE MAINTENANCE FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET BRIDGE MAINTENANCE SUMMARIES SEE SHEET GENERAL GENERAL JENNION FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET JENNION FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET JENNION FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET GENERAL JENNION FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET JENNION FOR BRIDGE MAINTENANCE SUMMARY SEE SHEET JENNION FOR BRIDGE MAIN																				MAINTENANCE OF TRAFFIC	
TRAFFIC CONTROL FOR TRAFFIC CONTROL GENERAL SUMMARY SEE SHEET BRIDGE MAINTENANCE FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET BRIDGE MAINTENANCE FOR B																					21
FOR TRAFFIC CONTROL GENERAL SUMMARY SEE SHEET BRIDGE MAINTENANCE FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET BRIDGE MAINTENANCE SUMMARIES SEE SHEET BRIDGE MAINTENANCE SUMMARIES SEE SHEET GENERAL BRIDGE MAINTENANCE SUMMARIES SEE SHEET GENERAL BRIDGE MAINTENANCE SUMMARIES SEE SHEET BRIDGE MAINTENANCE SUMMARIES SEE SHEET GENERAL BRIDGE MAINTENANCE GENERAL BRIDGE MAINTENANCE SUMMARIES SEE SHEET																					T -
FOR TRAFFIC CONTROL GENERAL SUMMARY SEE SHEET BRIDGE MAINTENANCE FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET BRIDGE MAINTENANCE SUMMARIES SEE SHEET BRIDGE MAINTENANCE SUMMARIES SEE SHEET GENERAL BRIDGE MAINTENANCE SUMMARIES SEE SHEET GENERAL BRIDGE MAINTENANCE SUMMARIES SEE SHEET BRIDGE MAINTENANCE SUMMARIES SEE SHEET GENERAL BRIDGE MAINTENANCE GENERAL BRIDGE MAINTENANCE SUMMARIES SEE SHEET																	1			TRAFFIC CONTROL	
BRIDGE MAINTENANCE FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET GENERAL GENERAL BRIDGE MAINTENANCE SUMMARIES SEE SHEET GENERAL SUMMAR																					19
FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET GENERAL IB, ART.6 LUMP 1 PREMIUM FOR CONTRACT PERFORMANCE BOND AND PAYMENT BOND SP 119 LUMP 1 RAILROAD PROTECTIVE LIABILITY INSURANCE - NS SP 619 LUMP 1 MAINTENANCE FOR TAFFIC SP 619 LUMP 1 FIELD OFFICE SP 623 LUMP 1 CONSTRUCTION LAYOUT SURVEY 1 ADDENDUM NO. 1 C																				TOK THAT HE SONTKOL SENERAL SOMMARY SEE STILL	13
FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET GENERAL IB, ART.6 LUMP 1 PREMIUM FOR CONTRACT PERFORMANCE BOND AND PAYMENT BOND SP 119 LUMP 1 RAILROAD PROTECTIVE LIABILITY INSURANCE - NS SP 619 LUMP 1 MAINTENANCE FOR TAFFIC SP 619 LUMP 1 FIELD OFFICE SP 623 LUMP 1 CONSTRUCTION LAYOUT SURVEY 1 ADDENDUM NO. 1 C																				PRINCE MAINTENANCE	
						-											+				24
IB, ART.6 LUMP 1 PREMIUM FOR CONTRACT PERFORMANCE BOND AND PAYMENT BOND SP 119 LUMP 1 RAILROAD PROTECTIVE LIABILITY INSURANCE - NS SP 614 LUMP 1 MAINTAINING TRAFFIC SP 619 LUMP 1 FIELD OFFICE SP 623 LUMP 1 CONSTRUCTION LAYOUT SURVEY SP 624 LUMP 1 MOBILIZATION ADDENDUM NO. 1 C																				FOR BRIDGE MAINTENANCE SUMMARIES SEE SHEET	24
IB, ART.6 LUMP 1 PREMIUM FOR CONTRACT PERFORMANCE BOND AND PAYMENT BOND SP 119 LUMP 1 RAILROAD PROTECTIVE LIABILITY INSURANCE - NS SP 614 LUMP 1 MAINTAINING TRAFFIC SP 619 LUMP 1 FIELD OFFICE SP 623 LUMP 1 CONSTRUCTION LAYOUT SURVEY SP 624 LUMP 1 MOBILIZATION ADDENDUM NO. 1 C						-			-								-			OFNED 41	+
						-			-					1			ID ADT C	111110			-
						-			-												
																					-
1 ADDENDUM NO. 1 C																	SP 619	LUMP	1	FIELD OFFICE	1
1 ADDENDUM NO. 1 C																	1				
1 ADDENDUM NO. 1 CI																					
																	624	LUMP	1	MOBILIZATION	
																					_
																					CLH

2	ADDENDUM NO. 2	CLH	10/19/16
NO.	REVISIONS	BY	DATE
IN	OHIO TURNPIKE AND IFRASTRUCTURE COMMI		ON
	GENERAL SUMMARY		
М.	P. 90.00 TO M.P. 95.90 SANDUS	KY CO	UNTY
	GPD GROUP.		

DESIGNED: CLH CHECKED: PJF DATE: 08/26/16
DRAWN: CLH IN CHARGE: MRG SCALE: N.T.S.

Technician: ch

CHADDDAIL	/DADDIED	CHDCHMMAADV	
GUARDRAIL	JOARRIER	SUBSUMMARY	

						202	2				606						622			SP 536	SP 626*	SP 626*
REF NO.	SHEET NO.	STATION T	O STATION	SIDE	TOTAL LENGTH	GUARDRAIL REMOVED	CONCRETE BARRIER REMOVED	GUARDRAIL, TYPE MGS, USING LONG STEEL POSTS	ANCHOR ASSEMBLY, TYPE T, USING LONG STEEL POSTS	ANCHOR ASSEMBLY, MGS TYPE E, AS PER PLAN	BRIDGE TERMINAL ASSEMBLY, TYPE 1, USING LONG STEEL POSTS	BRIDGE TERMINAL ASSEMBLY, TYPE 1, USING LONG STEEL POSTS, AS PER PLAN	BRIDGE TERMINAL ASSEMBLY, TYPE 2, USING LONG STEEL POSTS	BRIDGE TERMINAL ASSEMBLY, TYPE 2, USING LONG STEEL POSTS, AS PER PLAN	CONCRETE BARRIER, TYPE B-50, AS PER PLAN	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE B-50	CONCRETE BARRIER, END ANCHORAGE, REINFORCED, TYPE D	CONCRETE BARRIER, END SECTION, TYPE D	CONCRETE BARRIER, SINGLE SLOPE, TYPE D, (42") AS PER PLAN	CONCRETE WEATHERPROOFING, BARRIERS AND PARAPETS	BARRIER REFLECTOR, TYPE A	BARRIER REFLECTOR, TYPE B
		FROM	то		FT.	FT.	FT.	FT.	EACH	EACH	EACH	EACH	EACH	EACH	FT.	EA	EA	EA	FT.	SQ. YD.	EACH	EACH
GR-01	123,124	435+90.62	439+70.64	RT.	380	372		300.00		1		1									4	
GR-02	124	440+86.07	448+05.66	RT.	720	714		692.69				1		1							8	<u> </u>
GR-03	124-126	449+29.59	469+59.81	RT.	2034	2033		1999.48				1		1							21	
GR-04	126-128	471+74.95	489+52.99	RT.	1778	1731	43	1696.14			1			1			1	1	28.50	51.0	18	2
GR-05	128,129	98+04.38	102+79.79	RT.	475	249		412.50	1	1											6	
GR-06	130	513+73.13	517+85.60	RT.	412	500	81	280.77	1	1	1	1	1					2	32.00	53.2	4	2
GR-21	130,131	518+68.21	535+43.37	RT.	1675	447	81	1600.00		1		1		_							17	1
GR-07	132,133	537+01.63	547+58.11	RT.	1056	1057		1029.58	4			1		1							12	
GR-08	133-135	557+24.71	574+38.28	RT.	1727	1720		1687.50	1		4			1				_	20.00	40.4	18	
GR-09	136	587+54.29	592+08.81	RT.	455	374	58	325.00		1	1						1	1	23.00	46.1	5	2
GR-10	137	603+41.88	607+70.00	RT.	428	425		362.50	1	1										1	5	
GR-11	138	613+91.26	618+87.78	RT.	497	422	28	362.50		1	1	4	_				1	1	27.50	50.1	5	2
GR-12	140,141 141,142	640+42.37	650+29.62	RT.	987	936	50	827.33	_	1	1	1	1					2	29.50	51.0	10	
GR-13 GR-14	141,142	651+54.84 673+94.64	657+04.84 681+48.16	RT.	550 754	541 705	57	537.50 625.00	1	1	1			1			1	1	22	45.2	7 8	2
GR-14 GR-15	143,144	673+94.64	695+12.50	RT.	754 428	413	5/	362.50	1	1	1						1	1	- 22	45.2	5	-
GR-15	144,145	703+59.59	713+14.61	RT.	955	947		875.00	'	1		1									10	+
GR-16 GR-17	146,147	714+70.25	713+14.61	RT.	875	871		862.50	1			'		1						-	10	+
GR-17 GR-18	146,147	714+70.25	723+45.25	RT.	428	425		362.50	1	1				'							5	
GK-10	140	/ 34*04.30	739712.50	KI.	440	425		302.50	1	1				-							э	_
GR-19	121	409+35.00	412+85.00	MED	350										350	2				394.5	5	
GR-19	149	745+50.00	748+50.00	MED	300									-	300	2				338.2	4	1
5120	170	1 -10 - 00.00	1-10-00.00	25											- 550					550.2	7	+
																						\vdash
	TOTA	ALS CARRIED TO G	ENERAL SUMMA	RY		14883	398	15201	8	12	6	8	2	7	650	4	4	8	163	1029	187	11

BERM TREATMENT SUBSUMMARY

				20	04	203	₹ 209	SP 617	617	SP 627
LOCATION	LENGTH	SHOULDER WIDTH	SURFACE AREA	EXCAVATION INCLUDING EMBANKMENT, AS PER PLAN (SEE NOTE BELOW)	EXCAVATION	EMBANKMENT WITH RACP, AS PER PLAN	LINEAR GRADING, AS PER PLAN	COMPACTED AGGREGATE(T=6")	SHOULDER PREPARATION, AS PERPLAN	STONE SHOULDER PROTECTION (T=3")
	FT.	FT.	SQ. FT.	CU. YD.	CU. YD.	CU. YD.	MILE }	CU. YD.	s/Q. Yb).	TON
SHLDR. WITHOUT BARRIER OR CURB	12670	3.00	38010		1746	875	2.40	704	4223	
SHLDR. WITH GUARDRAIL/NO CURB	13200	3.00	39599		1819	911	2.50		4400	346.5
SHLDR. WITH GUARDRAIL, TYPE 1 CURB	2723	2.17	5897	218			0.52		655	51.6
SHLDR. WITH GUARDRAIL, TYPE 4C CURB	166	2.50	415	24			0.03		46	3.6
TOTALS CARRIED TO GENERAL SUMMARY				242	3566	1786	5.45	704	9325	402

ITEM 204 - EXCAVATION INCLUDING EMBANKMENT, AS PER PLAN AND ITEM 204 - EXCAVATION WAS CALCULATED USING PLANIMETERED END

SHOULDERS WITH NO BARRIER OR CURB END AREA = 3.7216 S.F. SHOULDERS WITH CONCRETE CURB END AREA = 2.1601 S.F. SHOULDERS WITH ASPHALT CURB END AREA = 3.9433 S.F.

THIS EXCAVATION MATERIAL CAN THEN USED FOR THE EMBANKMENT AROUND THE EDGE COURSE IN THE CURBED AREAS IF IT MEETS THE REQUIREMENTS OF 203.03.

CURB SUBSUMMARY

						202	60	9
REF NO.	SHEET NO.	STATION T	O STATION	SIDE	TOTAL LENGTH	CURB REMOVED	ASPHALT CONCRETE CURB, TYPE 1, PG64-22	CURB, TYPE 4-C
		FROM	то		FT.	FT.	FT.	FT.
C-01	180	439+45.36	439+50.55	RT.	5.2	2		5.2
C-02	181	447+84.93	447+93.48	RT.	8.6			8.6
C-03	181	449+46.03	449+49.75	RT.	3.7			3.7
C-04	124-126,181-183	450+46.00	469+33.71	RT.	1883.9	902	1868.9	
C-05	126-128,182	471+92.85	488+95.49	RT.	1702.6	519	1648.7	33.0
C-06		NOT	USED					
C-07	130	516+81.79	517+00.77	RT.	19.0			19.0
C-08	183	535+15.20	535+29.57	RT.	14.4	13	8.9	2.5
C-09	132,183,184	537+19.19	547+40.66	RT.	1021.5	1034	970.3	36.2
C-10	133,134,184	557+42.18	561+36.16	RT.	407.6	357	382.7	21.9
C-11	136	591+37.81	591+56.81	RT.	19.0			19.0
C-12	138	618+12.28	618+31.28	RT.	19.0			19.0
C-13	140	644+25.89	644+44.89	RT.	19.0			19.0
C-14	185	650+08.52	650+13.92	RT.	5.4	6		5.4
C-15	185	651+72.86	651+95.72	RT.	22.9	23	13.6	6.3
C-16	144	680+78.16	680+97.16	RT.	19.0			19.0
C-17	146,186	708+00.00	712+97.08	RT.	497.1	510	492.6	1.5
C-18	147,186	714+91.34	720+02.00	RT.	510.7	512	479.9	27.8
	TOTALS CAR	RIED TO GENE	RAL SUMMARY	′		3879	5865	247

EARTHWORK & SEEDING SUBSUMMARY

	20	659	
LOCATION	EXCAVATION	EMBANKMENT	SEEDING AND MULCHING
	C.Y.	C.Y.	S.Y.
RAMP B	1433	2040	5796
RAMP C	631	95	1501
DITCH CLEANOUT AREA			25324
SHOULDER GRADING AREA			23965
TOTAL CARRIED TO GENERAL NOTES SHEET 15.			56587
TOTALS CARRIED TO GENERAL SUMMARY	2064	2135	

1	ADDENDUM NO. 1	CLH	10/12/16
2	ADDENDUM NO. 2	CLH	10/19/16
NO.	REVISIONS	BY	DATE

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

ROADWAY SUBSUMMARIES

M.P. 90.00 TO M.P. 95.90

South Ma	Glaus, P	D GRO yle, Schorer, Bu ine 2531, Akro	ms & Dellaive	m, Inc. 311 Fas	330-572-2 : 330-572-2	-
SIGNED:	CLH	CHECKED:	PJF	DATE:	08/26/16	
AWN:	CLH	IN CHARGE:	MRG	SCALE:	NTS	_

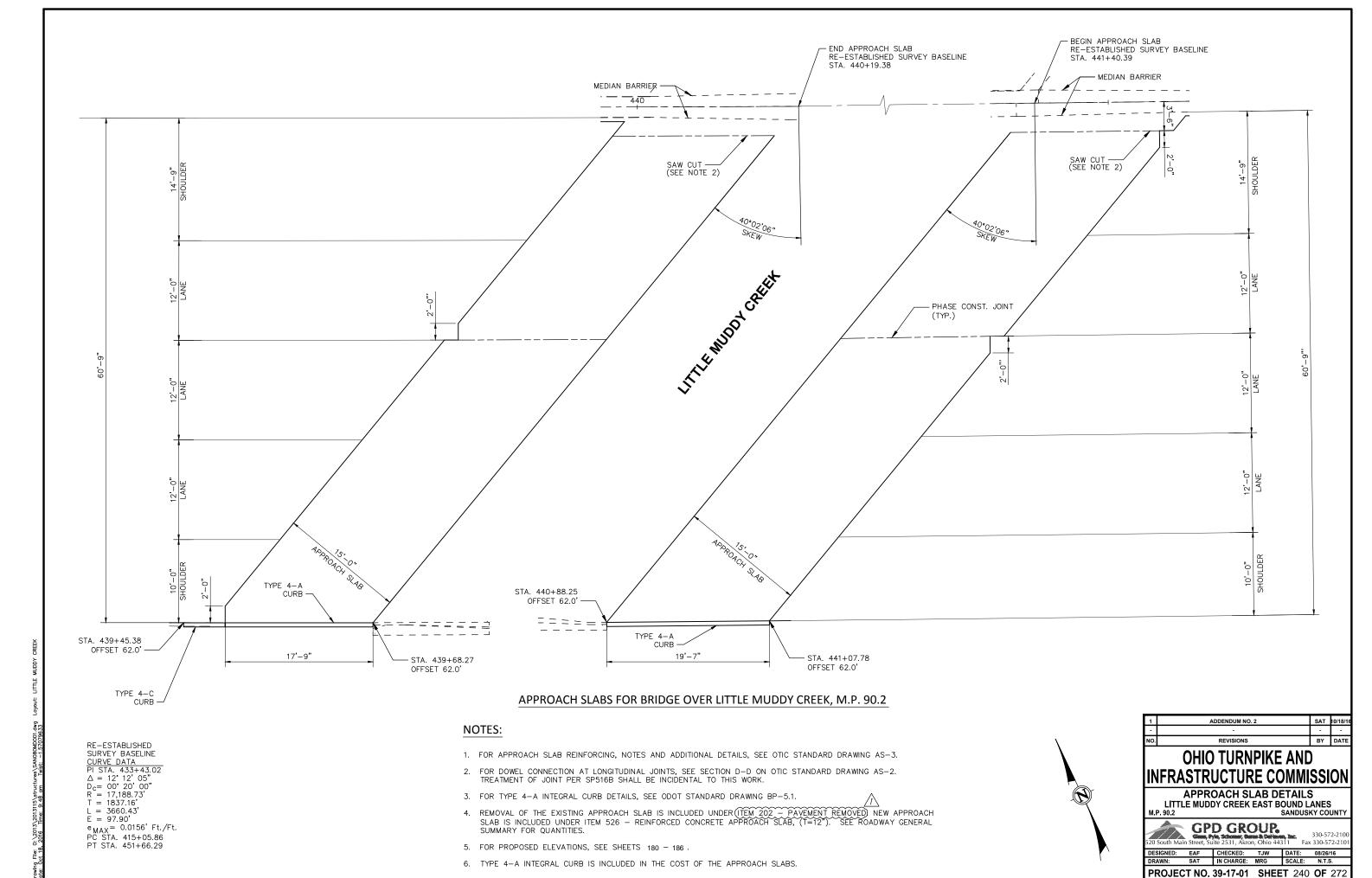
0

0

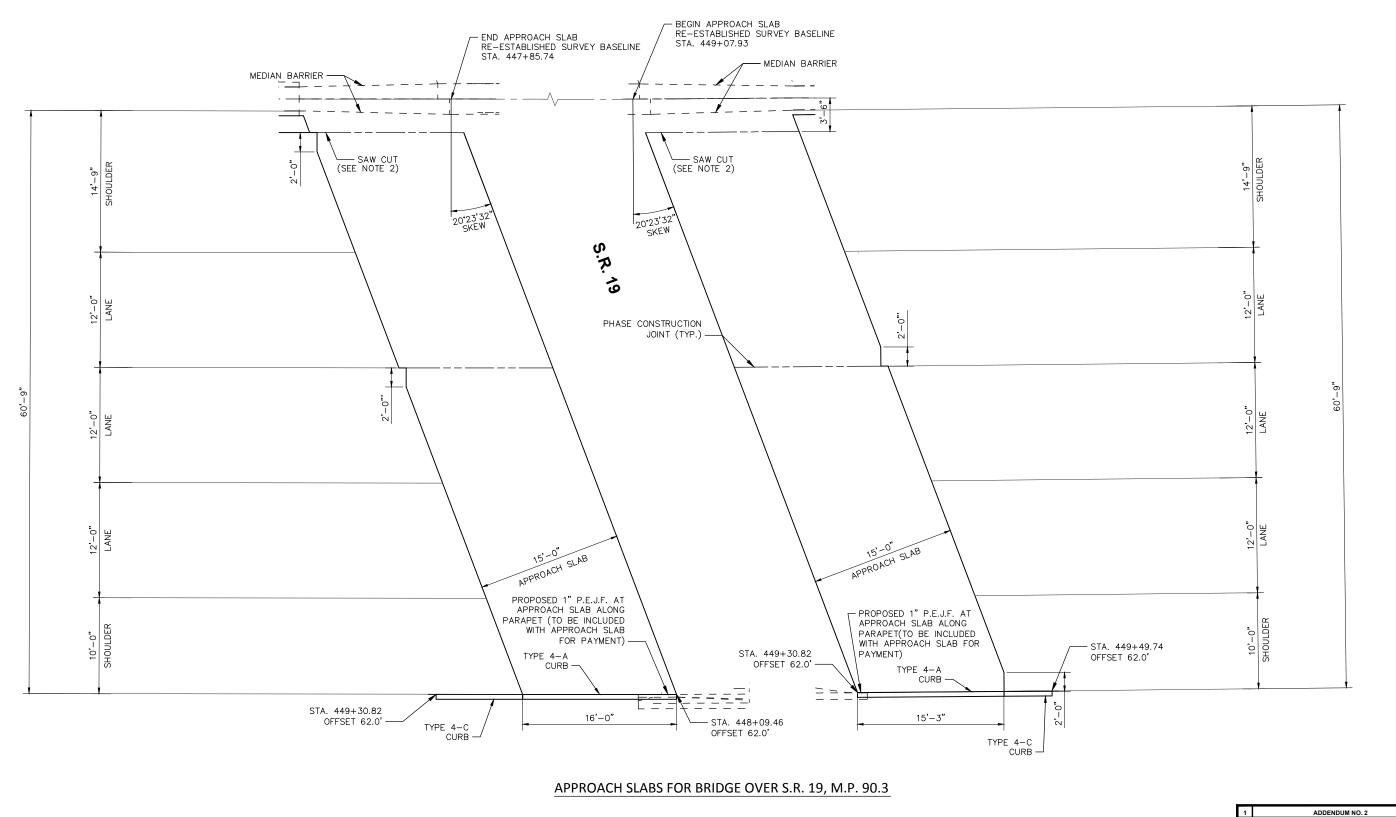
0

SANDUSKY COUNTY

PROJECT NO. 39-17-01 SHEET 107 OF 272



achnician: chuff



NOTES:

1. FOR APPROACH SLAB REINFORCING, NOTES AND ADDITIONAL DETAILS, SEE OTIC STANDARD DRAWING AS-3.

2. FOR DOWEL CONNECTION AT LONGITUDINAL JOINTS, SEE SECTION D-D ON OTIC STANDARD DRAWING AS-2. TREATMENT OF JOINT PER SP516B SHALL BE INCIDENTAL TO THIS WORK.

3. FOR TYPE 4-A INTEGRAL CURB DETAILS, SEE ODOT STANDARD DRAWING BP-5.1.

REMOVAL OF THE EXISTING APPROACH SLAB IS INCLUDED UNDER (ITEM 202 — PAVEMENT REMOVED) NEW APPROACH SLAB IS INCLUDED UNDER ITEM 526 — REINFORCED CONCRETE APPROACH SLAB, (T=12"). SEE ROADWAY GENERAL SUMMARY FOR QUANTITIES.

5. FOR PROPOSED ELEVATIONS, SEE SHEETS 180 - 186.

6. TYPE 4-A CURB IS INCLUDED IN THE COST OF THE APPROACH SLABS.

1	ADDENDUM NO. 2	SAT	10/18/1
-	-	-	-
NO.	REVISIONS	BY	DATE

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

APPROACH SLAB DETAILS S.R. 19 EAST BOUND LANES SANDUSKY COUNTY

-10	GPD GROUP
	OID OVOOIS
	Class Suite Cohemer Stone S. Dellauen, Ter-

outh Mair		ite 2531, Akro		, bc. 311 Fax	330-572-2° x 330-572-2	
GNED:	EAF	CHECKED:	TJW	DATE:	08/26/16	
WN.	SAT	IN CHARGE:	MRG	SCALE:	NTS	١

PROJECT NO. 39-17-01 SHEET 241 OF 272

Drawing File: 0:\2013\201315\structures\SAN080MD Date: Oct 18, 2016 Tme: 9:49 am Twist: -1.570

Technician: chuff

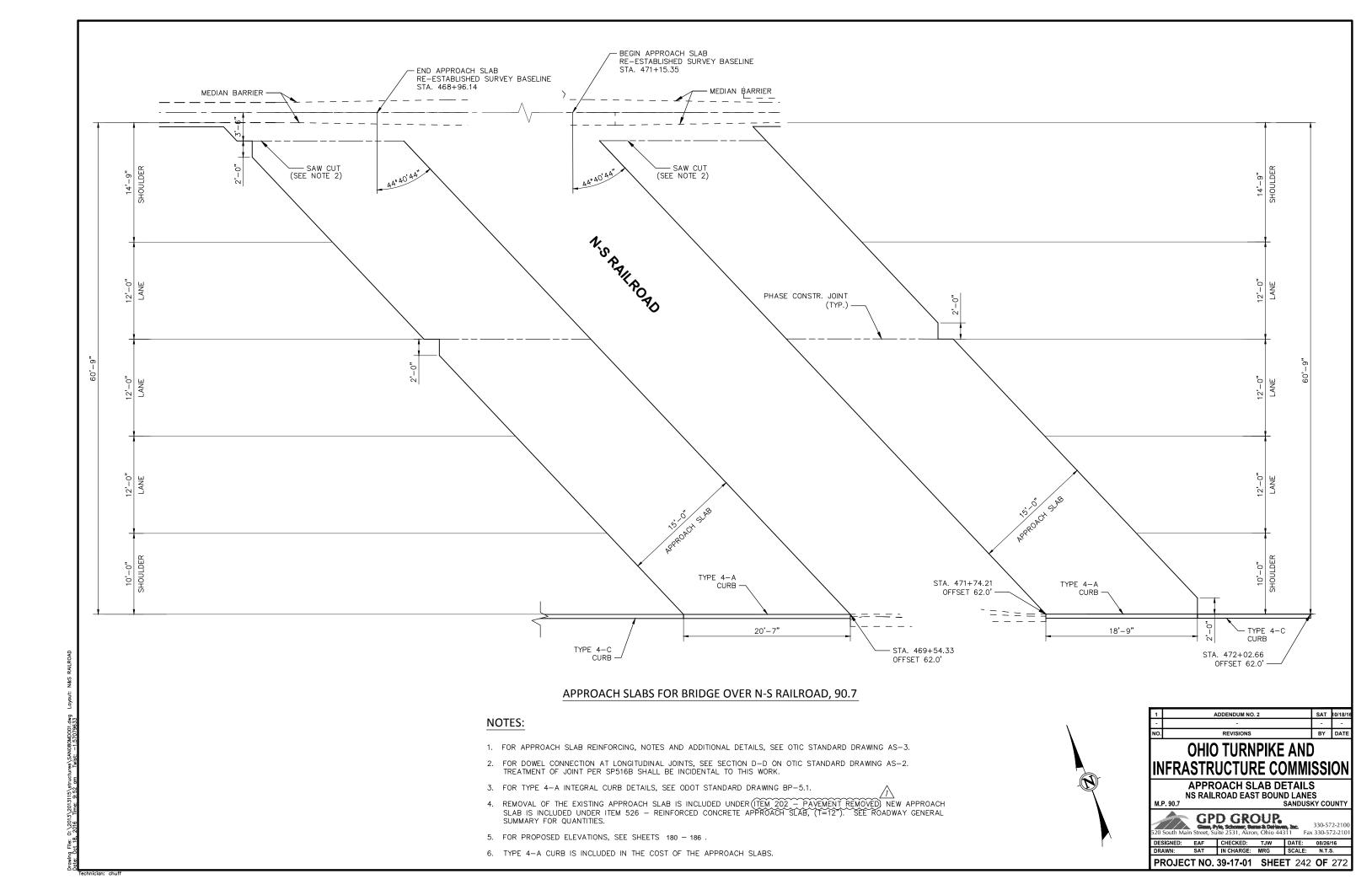
SURVEY BASELINE

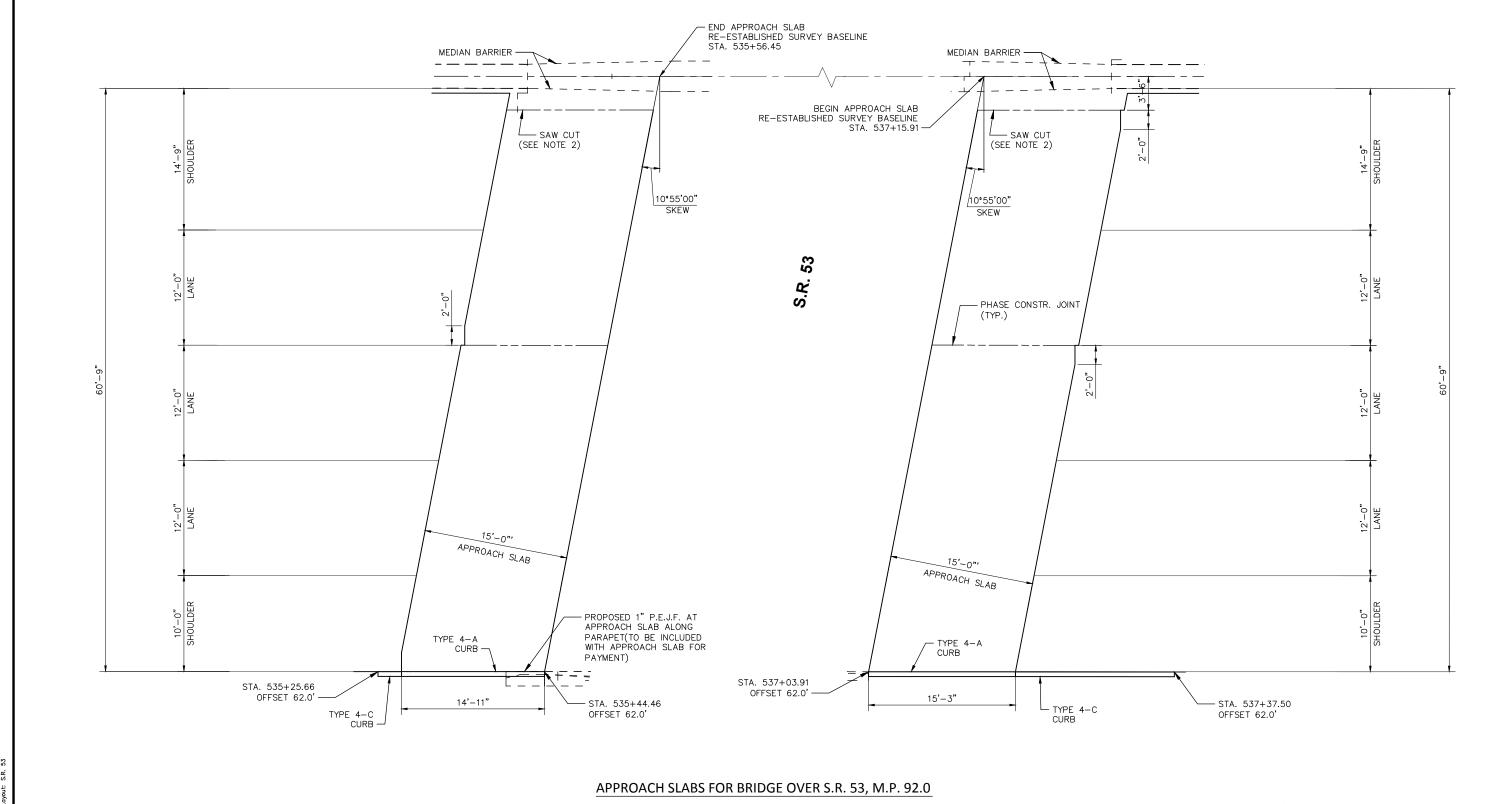
CURVE DATA
PI STA. 433+43.02
Δ = 12' 12' 05"
D_c= 00' 20' 00"
R = 17,188.73'

e_{MAX} = 0.0156' Ft./Ft. PC STA. 415+05.86 PT STA. 451+66.29

T = 1837.16

L = 3660.43'E = 97.90'





NOTES:

- 1. FOR APPROACH SLAB REINFORCING, NOTES AND ADDITIONAL DETAILS, SEE OTIC STANDARD DRAWING AS-3.
- 2. FOR DOWEL CONNECTION AT LONGITUDINAL JOINTS, SEE SECTION D-D ON OTIC STANDARD DRAWING AS-2. TREATMENT OF JOINT PER SP516B SHALL BE INCIDENTAL TO THIS WORK.
- 3. FOR TYPE 4-A INTEGRAL CURB DETAILS, SEE ODOT STANDARD DRAWING BP-5.1.
- REMOVAL OF THE EXISTING APPROACH SLAB IS INCLUDED UNDER (ITEM 202 PAVEMENT REMOVED) NEW APPROACH SLAB IS INCLUDED UNDER ITEM 526 REINFORCED CONCRETE APPROACH SLAB, (T=12"). SEE ROADWAY GENERAL SUMMARY FOR QUANTITIES.
- 5. FOR PROPOSED ELEVATIONS, SEE SHEETS 180 186.
- 6. TYPE 4-A CURB IS INCLUDED IN THE COST OF THE APPROACH SLABS.



	SAT	10/18/10
-	- I -	-
REVISIONS	BY	DATE

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

APPROACH SLAB DETAILS S.R. 53 EAST BOUND LANES SANDUSKY COUNTY

GPD GROUP.	_
Glass, Pyle, Schomer, Burns & Dellaven, Inc.	

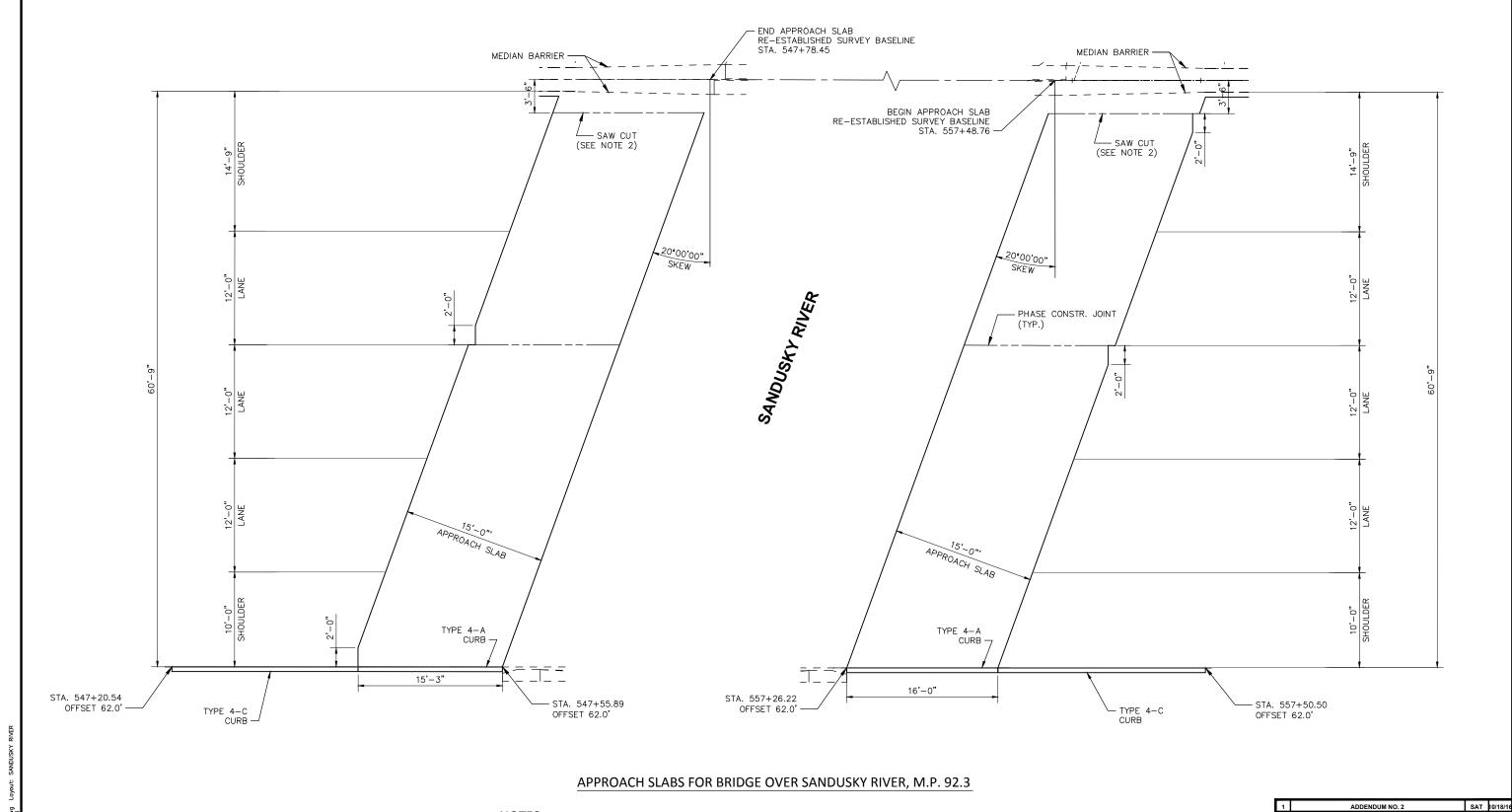
 520 South Main Street, Suite 2531, Akron, Ohio 44311
 Fax 330-572-210

 DESIGNED:
 EAF
 CHECKED:
 TJW
 DATE:
 08/26/16

 DRAWN:
 SAT
 IN CHARGE:
 MRG
 SCALE:
 N.T.S.

 PROJECT NO. 39-17-01
 SHEET
 243
 OF
 272

Fachnician: chuf



- 1. FOR APPROACH SLAB REINFORCING, NOTES AND ADDITIONAL DETAILS, SEE OTIC STANDARD DRAWING AS-3.
- 2. FOR DOWEL CONNECTION AT LONGITUDINAL JOINTS, SEE SECTION D-D ON OTIC STANDARD DRAWING AS-2. TREATMENT OF JOINT PER SP516B SHALL BE INCIDENTAL TO THIS WORK.
- 3. FOR TYPE 4-A INTEGRAL CURB DETAILS, SEE ODOT STANDARD DRAWING BP-5.1.
 - REMOVAL OF THE EXISTING APPROACH SLAB IS INCLUDED UNDER (ITEM 202 PAVEMENT REMOVED) NEW APPROACH SLAB IS INCLUDED UNDER ITEM 526 REINFORCED CONCRETE APPROACH SLAB, (T=12*). SEE ROADWAY GENERAL
- 5. FOR PROPOSED ELEVATIONS, SEE SHEETS 180 186 .
- 6. TYPE 4-A INTEGRAL CURB IS INCLUDED IN THE COST OF THE APPROACH SLABS.

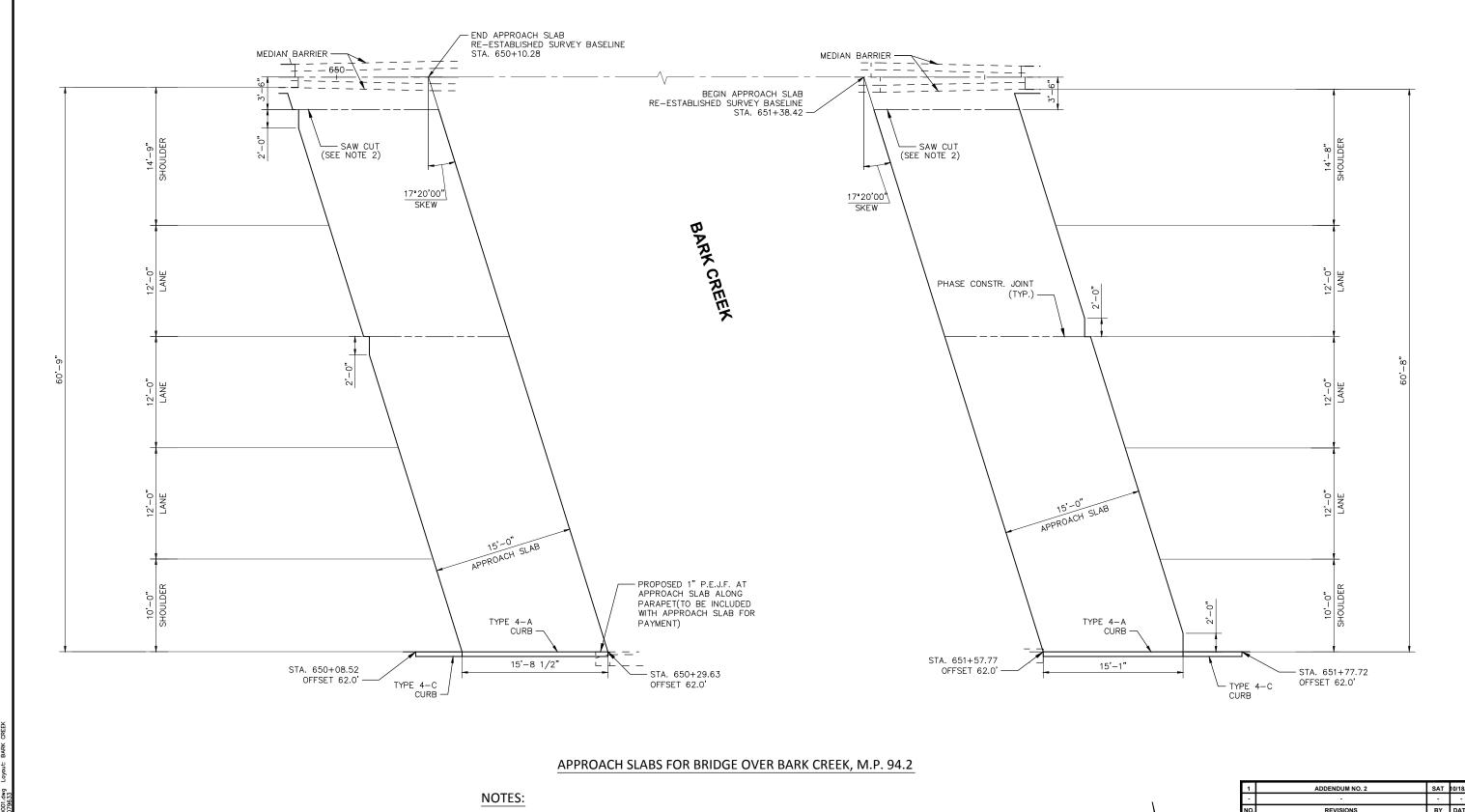


-	-		-
NO.	REVISIONS	BY	DAT
	OHIO TURNPIKE AND)	
I٨	IFRASTRUCTURE COMMI	SSI	ON

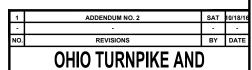
APPROACH SLAB DETAILS SANDUSKY RIVER EAST BOUND LANES 2.3 SANDUSKY COUNTY

520 South Main	GP Street, Su	D GRO ite 2531, Akro	DUP. Dellav n, Ohio 443	n, Inc. 311 Fa:	330-572 x 330-572
DESIGNED:	EAF	CHECKED:	TJW	DATE:	08/26/1

SAT IN CHARGE: MRG SCALE: PROJECT NO. 39-17-01 SHEET 244 OF 272



- 1. FOR APPROACH SLAB REINFORCING, NOTES AND ADDITIONAL DETAILS, SEE OTIC STANDARD DRAWING AS-3.
- 2. FOR DOWEL CONNECTION AT LONGITUDINAL JOINTS, SEE SECTION D-D ON OTIC STANDARD DRAWING AS-2. TREATMENT OF JOINT PER SP516B SHALL BE INCIDENTAL TO THIS WORK.
- 3. FOR TYPE 4-A INTEGRAL CURB DETAILS, SEE ODOT STANDARD DRAWING BP-5.1.
- REMOVAL OF THE EXISTING APPROACH SLAB IS INCLUDED UNDER (ITEM 202 PAVEMENT REMOVED) NEW APPROACH SLAB IS INCLUDED UNDER ITEM 526 REINFORCED CONCRETE APPROACH SLAB, (T=12"). SEE ROADWAY GENERAL SUMMARY FOR QUANTITIES.
- 5. FOR PROPOSED ELEVATIONS, SEE SHEETS 180 186.
- 6. TYPE 4-A INTEGRAL CURB IS INCLUDED IN THE COST OF THE APPROACH SLABS.



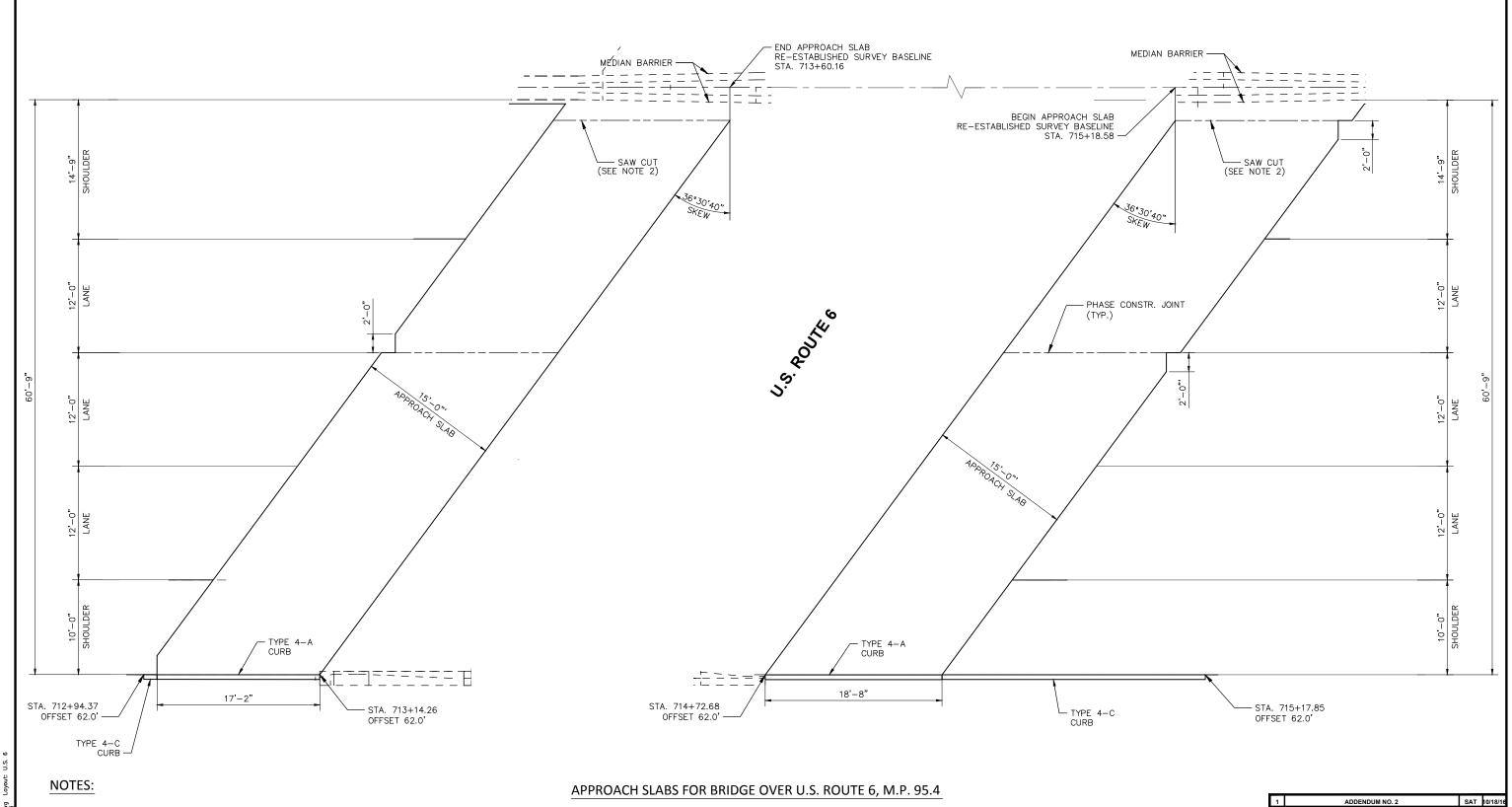
INFRASTRUCTURE COMMISSION

APPROACH SLAB DETAILS BARK CREEK EAST BOUND LANES SANDUSKY COUNTY

MILE : 341Z	JAND
	GPD GROUP.

outh Mair		ite 2531, Akro		, I.c. 311 Fax	330-572-21 330-572-2	
SNED:	EAF	CHECKED:	TJW	DATE:	08/26/16	
/N·	SAT	IN CHARGE:	MRG	SCALE:	NTS	

PROJECT NO. 39-17-01 SHEET 245 OF 272



- 1. FOR APPROACH SLAB REINFORCING, NOTES AND ADDITIONAL DETAILS, SEE OTIC STANDARD DRAWING AS-3.
- 2. FOR DOWEL CONNECTION AT LONGITUDINAL JOINTS, SEE SECTION D-D ON OTIC STANDARD DRAWING AS-2. TREATMENT OF JOINT PER SP516B SHALL BE INCIDENTAL TO THIS WORK.
- 3. FOR TYPE 4-A INTEGRAL CURB DETAILS, SEE ODOT STANDARD DRAWING BP-5.1.
- 4. REMOVAL OF THE EXISTING APPROACH SLAB IS INCLUDED UNDER (ITEM 202 PAVEMENT REMOVED). NEW APPROACH SLAB IS INCLUDED UNDER ITEM 526 REINFORCED CONCRETE APPROACH SLAB, (T=12"). SEE ROADWAY GENERAL SUMMARY FOR QUANTITIES.
- 5. FOR PROPOSED ELEVATIONS, SEE SHEETS 180 186.
- 6. TYPE 4-A INTEGRAL CURB IS INCLUDED IN THE COST OF THE APPROACH SLABS.



APPROACH SLAB DETAILS U.S. ROUTE 6 EAST BOUND LANES SANDUSKY COUNTY

GPD GROUP.20 South Main Street, Suite 2531, Akron, Ohio 44311
Fax 330-572-210

PROJECT NO. 39-17-01 SHEET 246 OF 272

STRUCTURE ESTIMATED QUANTITIES											
ITEM	LITTLE MUDDY CREEK MP 90.2	S.R. 19 MP 90.3	NS RR MP 90.7	S.R. 53 MP 92.0	BARK CREEK MP 94.2	U.S. R6 MP 95.4	GENERAL	TOTAL	UNIT	DESCRIPTION	AS PER PLAN SHEET
4	<u> </u>	$\sim\sim$	~~~~	 	mmmm	$\sim\sim$	$\sim\sim$	· · · · · · · · · · · · · · · · · · ·	~~~~	\sim	
SP 202	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP		LUMP	l	PORTIONS OF STRUCTURE REMOVED	
SP 516A	~~~~~~~		**** ***	******			***************************************	********	YEIN! FI.	CRACK REPAIR USING EPOXY INJECTION	
SP 516B	694	645	1759	864	657	790		5409	LIN. FT.	SEALING OF CONSTRUCTION JOINTS	
SP 516G	Çuuntuuru	18	20	ψ	······ e ·······	~~12~~~		4400 V	EACH	REPLACE EXPANSION BEARING DEVICE	
SP 516G	<u>/1</u> \		15					15	EACH	REPLACE EXPANSION BEARING DEVICE, AS PER PLAN	247
SP 516H						9		9	EACH	REHABIILITATION OF FIXED BEARING ASSEMBLY	
SP 516H			1	1				2	EACH	REHABILITATION OF FIXED BEARING ASSEMBLY, AS PER PLAN	247
SP 516K				15		1		16	EACH	REBUILD EXPANSION BEARING DEVICE	
SP 516M	1		10	2		5		17	EACH	RESET EXISTING ROCKER BEARING	
SP 519	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	~~50~~	~~202~~	₩ 50₩	150 · · · · · · · · · · · · · · · · · · ·	~~50 ~~~	√^245* Y	~~~845~~ ~	~ \$Q F\T.~_	PATCHING CONCRETE STRUCTURES	
SP 527	LUMP	LUMP	LUMP	LUMP	LUMP	LUMP		LUMP		FALSEWORK, TEMPORARY BRACING AND PROTECTIVE STRUCTURES	
SP 529			~~~ 35 ~~~	/~~15 ~~	·············			~~ 5 0~~	WEACH	TRIM END OF STRUCTURAL STEEL MEMBER	
SP 533D	164	135	688	252	128	152		1519	FOOT	CONTINUOUS ELASTOMER SEAL IN PORTLAND CEMENT CONCRETE JOINT	
SP 536	181	179	338	224	197	242		1361	SQ. YD.	CONCRETE WEATHERPROOFING, BARRIERS AND PARAPETS	
SP 536	1066	1026	1787	1265	1068	1293		7505	SQ. YD.	CONCRETE WEATHERPROOFING, DECK, ABUTMENT SLABS AND APPROACH SLABS	
(601			120			• • • • • •		120	CU. YD.	CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN	247
SPECIAL		~~5 ~~	~~10~~	₹ ~5~	~~5~~	~~ 5 ~~	7	~~35 ~~	SQ.YQ.	PATCHING CONCRETE BRIDGE DECKS, TYPE-B	247
SPECIAL					9			9	EACH	REPOSITION ELASTOMERIC EXPANSION BEARING	248
SPECIAL		6						6	EACH	REPOSITION ELASTOMERIC EXPANSION BEARING INCLUDING MASONRY PLATE	247
SPECIAL						12		12	EACH	PEDESTAL REPLACEMENT	248
SPECIAL			14					14	CU. YD.	VOID REPAIR UNDER ABUTMENT USING LOW STRENGTH MORTAR	248
SPECIAL			1			•		1	EACH	ABUTMENT BEARING PILE REPAIR	248

^{*} QUANTITY IS FOR BRIDGE PIER COLUMN REPAIRS AT MP 91.6, MP 93.0, AND MP 94.7, SEE SHEET 250 OF 272 FOR ADDITIONAL INFORMATION.

NOTES:
1. FOR GENERAL NOTES, SEE SHEETS 247 & 248.

2		Α	ADDENDUM NO	. 2		SAT	10/21/16
NO.			REVISIONS		·	BY	DATE
IN			TURN UCTUF				ON
		ESTI	MATED (TUAUÇ	ITIES		
М.	P. 90.2, 90	.3, 90.7,	92.0, 94.2, 95	5.4	SANDUS	кү со	UNTY
520	South Main	GP Glass, P	D GRO yle, Schomer, Bu sibe 2531, Aked	OUPe ms & Delieve n, Ohio 44	m, Inc. 311 Fac		72-21 00 72-21 01
DES	SIGNED:	EAF	CHECKED:	TJW	DATE:	08/26/	16
DD.	AWW.	CAT	IN CHARGE:	MPC	SCALE:	NTS	ï

PROJECT NO. 39-17-01 SHEET 249 OF 272

ADDENDUM NO. 1

SAT 10/11/16

Drawing File: 0: \2013\2013\15\structures\SAN080_09020\Sheets\080_090200EQ001 Date: 0ct 21, 2016 Time: 1:53 pm Twist: -1.57079633

0

0

0

obnician: stony

			STRUCTURE ESTIMATED QUANT	TIES - NS RR WESTBO	OUND LANE	S MP 90.7			
ITEM	TOTAL U	NIT 1	DESCRIPTION	ABUTMENTS	PIERS	SUPER-STRUCTURE	GENERAL	CONTINGENCY	AS PER PLAN SHEET
SP 202	ELUMP LU	JMP}	PORTIONS OF STRUCTURE REMOVED				{ LUMP	1	
SP 516A	162 LIN	. FT.	CRACK REPAIR USING EPOXY INJECTION	87				75	
SP 516B	487 } LIN	. FT.	SEALING OF CONSTRUCTION JOINTS			337		{ 150 } _{\\}	
SP 516G	5 E	ACH	REPLACE EXPANSION BEARING DEVICE		5			1	1
SP 516G	15 E <i>F</i>	ACH	REPLACE EXPANSION BEARING DEVICE, AS PER PLAN		15				247
SP 516M	8 E/	ACH	RESET EXISTING ROCKER BEARING		8				
SP 519	104 SQ	RET.	PATCHING CONCRETE STRUCTURES	5	49			50	
SP 527			FALSEWORK, TEMPORARY BRACING AND PROTECTIVE STRUCTURES				{ LUMP	B/1\	
SP 529	20 E/		TRIM END OF STRUCTURAL STEEL MEMBER			20	1		
SP 533D	344 FC	TOC	CONTINUOUS ELASTOMER SEAL IN A PORTLAND CEMENT CONCRETE JOINT	~~~~~		344			
601	60 CU.	. YD.	CRUSHED AĞGREGATE SLOPE PROTECTION, AS PER PLAN	60					247
SPECIAL	5 SQ.	. YD.	PATCHING CONCRETE BRIDGE DECKS, TYPE B					5	247
SPECIAL	10 CU.	. YD.	VOID REPAIR UNDER ABUTMENT USING LOW STRENGTH MORTAR	10					248

			STRUCTURE ESTIMATED QUANTITIES — I	NS RR EASTBOU	JND LANES	S MP 90.7			
ITEM	TOTAL	UNIT 1	DESCRIPTION	ABUTMENTS	PIERS	SUPER-STRUCTURE	GENERAL	CONTINGENCY	AS PER PLAN SHEET
SP 202	{LUMP	LUMP}	PORTIONS OF STRUCTURE REMOVED			/1	EUMP		
SP 516A	164	LIN. FT.	CRACK REPAIR USING EPOXY INJECTION	89		, ,		75	
SP 516B	1272	₹LIN. FT.	SEALING OF CONSTRUCTION JOINTS	121		874	127	£ 150 } _{\(\right)}	
SP 516G/1	15	EACH	REPLACE EXPANSION BEARING DEVICE		15			1	
SP 516H	1	EACH	REHABILITATION OF FIXED BEARING ASSEMBLY, AS PER PLAN	1					
SP 516M	2	EACH	RESET EXISTING ROCKER BEARING		2				
SP 519	98	SQ. FT.	PATCHING CONCRETE STRUCTURES	44	4	Α.		50	
SP 527 /	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		FALSEWORK, TEMPORARY BRACING AND PROTECTIVE STRUCTURES			<u>/1\</u>	{ LUMP		
SP 529	15	EACH	TRIM END OF STRUCTURAL STEEL MEMBER			15			
SP 533D	344	FOOT	CONTINUOUS ELASTOMER SEAL IN A PORTLAND CEMENT CONCRETE JOINT	~~~~		344			
601	60	CU. YD.	CRUSHED AGGREGATE SLOPE PROTECTION, AS PER PLAN	60)				247
SP 536	338	SQ. YD.	CONCRETE WEATHERPROOFING, BARRIERS AND PARAPETS	60~~		254	24		
SP 536	1787	SQ. YD.	CONCRETE WEATHERPROOFING, DECK, ABUTMENT SLABS AND APPROACH SLABS	301		1205	281		
SPECIAL	5	SQ. YD.	PATCHING CONCRETE BRIDGE DECKS, TYPE B					5	247
SPECIAL	4	CU. YD.	VOID REPAIR UNDER ABUTMENT USING LOW STRENGTH MORTAR	4					248
SPECIAL	1	EACH	ABUTMENT BEARING PILE REPAIR	1					248

NOTES:

1. FOR GENERAL NOTES, SEE SHEETS 247 & 248 .

1	ADDENDUM NO. 1	SAT	10/11/16						
2	ADDENDUM NO. 2	SAT	10/21/16						
NO.	REVISIONS	BY	DATE						
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION									
ESTIMATED QUANTITIES OHIO TURNPIKE OVER NS RAILROAD M.P. 90.7 SANDUSKY COUNTY									

GPD GROUP, Glass, Pyle, Schome, Burne & Delhacen, Inc. 20 South Main Street, Suite 2531, Akron, Ohio 44311 Fax 330-572-2101
 DESIGNED:
 EAF
 CHECKED:
 TJW
 DATE:
 08/26/16

 DRAWN:
 SAT
 IN CHARGE:
 MRG
 SCALE:
 N.T.S.

PROJECT NO. 39-17-01 SHEET 257 OF 272

0

0

0

0