OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

ADDENDUM NO. 4

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

EXTENDED OPENING DATE: 2:00 P.M. (EASTERN TIME), NOVEMBER 2, 2016

ALL BIDS MUST BE ELECTRONICALLY SUBMITTED THROUGH BID EXPRESS

ATTENTION OF BIDDERS IS DIRECTED TO:

QUESTIONS RECEIVED THROUGH 12:00 PM ON OCTOBER 28, 2016

MODIFICATIONS TO THE CONTRACT DOCUMENTS

Plan Sheets: 15, 38, 105, 188, 190 and 191 of 272; Plan Insert Sheet 1 of 1.

Issued by the Ohio Turnpike and Infrastructure Commission on October 28, 2016. Issuance authorized by Anthony D. Yacobucci., Chief Engineer, and Mark R. Musson, Director of Contracts Administration.

Anthony D. Yacobucci

Date

Mark R. Musson

Date | 10/28/16

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION ADDENDUM NO. 4 PROJECT NO. 39-17-01

QUESTIONS AND ANSWERS THROUGH 12:00 PM ON OCTOBER 28, 2016

- Q#43 Plan sheet 38, note 5 calls for restoration of existing crossover to include removal of slotted drain and temporary drainage structures, and that this work is incidental to SP614 Maintenance of Traffic. What is the required depth of the SP302 and SP304 prior to the 1.5" asphalt resurfacing?
- A#43 This Addendum No. 4 clarifies the required thickness of SP302 is approximately 13.5" and the required thickness of SP304 is approximately 7". This value is based from record plans.
- Q#44 I see where OTC calls for re-striping the project in the traffic control notes (plan sheet 188 is attached) during the beginning and end of the first and second construction seasons (OTIC Annual Pavement Marking Operations Long Line Quantities). Is the first and second construction seasons before Memorial Day, and after Labor Day? Or, did the OTC figure annual pavement marking work twice and this job is only in 2017?
- A#44 The pavement marking quantities listed on Plan Sheet 188 of 272 are correct. This Project shall be completed in a single construction season. This Addendum No. 4 eliminates reference to Construction Season 2 on Plan Sheet 188 of 272.
- Q#45 Channelizing Line, 12" Type 1, Dotted Line 12" Type 1, and Air Speed Zone Marking shown in the plans with quantities for Construction Season 1 and Construction Season 2 on Pavement Marking Subsummary plan sheet 191. Is this correct?
- A#45 No. This Addendum No. 4 eliminates reference to Construction Season 2 from the plans and modifies the quantities on the Traffic Control General Summary on Plan Sheets 190 and 191 of 272. Reference No. 187, Item 642 DOTTED LINE, 6", TYPE 1 (WHITE) is revised to 2,478 FT. Reference No. 188, Item 642 CHANNELIZING LINE, 12", TYPE 1 (WHITE) is revised to 3,401 FT, Reference No. 189 and SPECIAL AIR SPEED ZONE MARKING is revised to 10 EACH on the Bid Schedule and Estimated Quantities Worksheet.
- Q#46 In response to addendum 2, plan sheet 9 note on "Linear Grading, As Per Plan"- the second paragraph says to reconstruct the foreslope using 4" topsoil. There is already a bid item for topsoil to cover seeding outside of pavements and shoulders (plan sheet 15 covers seeding/topsoil to 10' beyond shoulder). Does this item include or exclude topsoil?
- A#46 Yes. If the Contractor's means and methods results in an area of disturbed earth in addition to the areas described on Plan Sheet 15 of 272, that area shall be covered with a 4-inch depth of topsoil at the Contractor's expense. The linear grading note covers the payment for any additional materials that are needed including topsoil. This Addendum No. 4 modifies the Item Number for Reference No. 51 from Item 659 to Item 653 —

Topsoil, Furnished and Placed (For Slopes) and the associated item number on Plan Sheets 15 and 105 of 272 and Plan Insert Sheet 1 of 1.

- Q#47 The "OTIC Annual Pavement Marking Operations Long Line Quantities" note on sheet 188 of 272 details the striping operations for the first and second construction season, however, this project appears to only have one construction season based on the completion date. Furthermore, the quantities listed in this note for Ref. 184 through 186 appear to only allow for one application. In a similar manner, the subsummary for Ref. 187 through 189 on sheet 191 of 272 appears to be doubled, with a total quantity listed for "Construction Season 1" and "Construction Season 2". Please clarify when the permanent striping is to be performed on this project as well as verifying the quantities in question.
- Q#47 This project shall be completed in a single construction season. This Addendum No. 4 eliminates reference to Construction Season 2 from the plans.
- Q#48 Bid item #1 "Clearing and Grubbing": there are trees west of the SR 53 interchange within construction limits for removal which would fall under Indiana Bat Law restrictions prohibiting removal between April 1 through September 30. SP 103 gives the contractor construction access beginning April 3, 2017 and requires permanent seeding to be completed by September 29, 2017. Will the owner allow the contractor early access prior to April 1 and/or access after September 30 to remove these trees or how does the owner intend to address this issue?
- A#48 Yes, it is anticipated the Notice to Proceed will be issued in early January.
- Q#49 Can you provide a little clarification for bid items 95-98? After reviewing the specifications on page 13/272, it appears that the contractor is required to double treat the subgrade at a depth of 16 inches. If I understand this correctly, the contractor is to treat the top 16" of subgrade with a 4% application of Lime Kiln Dust, omitting the compaction and cure coat operations, once the subgrade has been treated, it is mellowed for 24 hours. After the mellowing period, the subgrade is then re-treated with Portland cement at an application rate of 6%. This is then followed by initial compaction, fine grading, smooth rolling, and cure coat application. Is this the intent of the commission? There are some indications that the total treatment depth is 32" while there are other indications that it's a total treatment depth of 16 inches.
- A#49 Yes, the total depth of Ref. Nos. 95 and 96 is 16" deep, and the general description of the Work for Ref. Nos. 95 through 98 is correct. The treatment depth of 32" is only for the work described in Section E.1 of the General Note "Item 206 Chemically Stabilized Subgrade, As Per Plan" located on Plan Sheet 13 of 272.
- Q#50 I think there is some confusion based the repair options listed under Item E, on page 13/272. Can you verify if the options listed under E. on page 13/272 are only utilized for areas that the stabilization has failed? Can you issue a clarification on the construction process for the stabilized subgrade?

39-17-01	
Addendum No.	4
Page 4 of 4	

Q#50 Yes, the options listed under Item E are only to be utilized for areas that fail after the soil stabilization is complete. The Contractor shall repair the subgrade per Options E.1, E.2, or E.3 as directed by the Chief Engineer.

Adden	dum No. 4 to Contract 39-17-01
	(Firm Name)
	(Signature)
	(Printed Name)

EROSION REPAIR TABLE

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OHIO TURNPIKE EASTBOUND									
REFERENCE NO.	SHEET NO.	MILE POST	STATION	AREA (S.Y.)	WIDTH (FT.)	LENGTH (FT.)	AREA (S.F.)	DEFICIENCY	
ER-01	123	90.1 - 90.2	435+28	267	80	30	2400	Some erosion/settlement at aggregate drain outlets	
ER-02	124	90.21	441+09	22	10	20	200	aggregate drains with minor erosion	
ER-03	128	91.25	496+00	100	30	30	900	Aggregate drains sloughing/eroding here to ramp	
ER-04	133	92.40	556+72	556	100	50	5000	Severe erosion of abutment slope at east end	
ER-05	134	92.49	561+34	100	60	15	900	Large washout between guardrail posts and down slope	
ER-06	134	92.55	564+50	167	15	100	1500	Erosion behind guardrail	
ER-07	135	92.88	581+93	133	40	30	1200	Several aggregate drain erosion slope problems.	
ER-08	137	93.35	605+79	142	15	85	1275	Just west of culvert repair slope gully area L85' X W15'	
ER-09	140	93.90	637+47	33	15	20	300	repair slope rutting area L20' X W15'	
ER-10	140	94.02	642+22	133	20	60	1200	repair slope rutting area L60' X W20'.	
ER-11	141	94.06	645+92	100	30	30	900	fill in and repair ditch sinkhole, area L30' X W30' X 10'Deep	
ER-12	142	94.40	663+87	33	20	15	300	repair slope rutting area L20' X W15'.	
ER-13	143	94.55	671+79	33	20	15	300	repair slope rutting area L20' X W15'	
ER-14	144	94.80	684+99	50	30	15	450	repair slope rutting area L30' X W15'.	
ER-15	144	94.82	686+05	58	35	15	525	repair slope rutting area L35' X W15'	
ER-16	145	94.98	694+50	50	30	15	450	repair slope rutting area L30' X W15'.	
ER-17	145	94.99	695+00	33	20	15	300	repair slope rutting area L20' X W15'.	
ER-18	145	95.08 - 95.09	699+85	67	60	10	600	repair 3 separate slope gullies with areas L20' X W10' each.	
EROSION REPAIR TOTAL AREA 2077 S.Y.									

SLOPE FROSION REPAIRS

FOR INDICATED SLOPE EROSION AREAS, REMOVE TOPSOIL FROM THE EXTENTS OF THE INDICATED AREA AND REMOVE SOIL DOWN TO THE LOWEST EXPOSED DEPTH IN THE EROSION AREA OR 12 INCHES, WHICHEVER IS GREATER. REMOVE ALL ROCKS, GRAVEL AND COBBLES AND FOREIGN MATERIAL I 1/2" OR GREATER FROM THE SLOPE EROSION AREA. PLACE AND COMPACT BACKFILL TO MATCH THE ADJACENT SLOPE AND PLACE 4 INCHES OF TOPSOIL TO MEET EXISTING SLOPE GRADES AT ALL EXTENTS OF THE INDICATED SLOPE. PLACE ITEM 671 - EROSION CONTROL MAT, TYPE B FROM THE TOP OF THE SLOPE DOWN TO THE LOWEST INDICATED EXTENT OF THE SLOPE EROSION REPAIR AREA. CONTINUE THE EROSION CONTROL MAT LATERALLY FIVE (5) FEET BEYOND THE SIDE EXTENTS OF THE SLOPE EROSION AREA. FOR AREAS ADJACENT TO PROPOSED CONCRETE BARRIER, THE TOP OF SLOPE MAT SHALL START AT THE OUTSIDE FACE OF THE BARRIER. FOR ALL OTHER AREAS, THE TOP OF SLOPE MAT SHALL START AT THE EDGE OF SHOULDER COMPACTED AGGREGATE BEHIND THE GUARDRAIL.

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THIS WORK;

ITEM 203 - EMBANKMENT	462 CU. YDS.
ITEM 203 - EXCAVATION	692 CU. YDS.
ITEM 659 - SEEDING AND MULCHING 2 (ITEM 653) -{TOPSOIL FURNISHED AND PLACED (FOR SLOPES)} /1 ITEM 659 - WATER	2077 SQ. YDS.
2\ (TEM 653) -{TOPSOIL FURNISHED AND PLACED (FOR SLOPES)}/1\	231 CU. YDS.
TIEM 659 - WATER	11 M. GAL.
ITEM 671 - EROSION CONTROL MAT, TYPE B	3385 SQ. YDS.

THE TABLES ABOVE SHOW AREAS EXPECTED TO REQUIRE THIS TREATMENT;

<u>ITEM 207 - PERIMETER FILTER FABRIC FENCE</u> FILTER FABRIC SHALL MEET THE REQUIREMENTS OF ITEM 207.02.

THE BOTTOM OF THE FENCE SHALL BE BURIED 6" BELOW THE GROUND. THE FENCE SHALL BE HIGH ENOUGH TO RETAIN SEDIMENT LADEN WATER AND ADEQUATELY SUPPORTED TO PREVENT COLLAPSE OR BURSTING. THE GROUND ELEVATION OF THE FENCE SHALL BE HELD CONSTANT EXCEPT THAT THE END ELEVATION SHALL BE RAISED TO PREVENT FLOW AROUND THE END OF THE FENCE.

THE FILTER FABRIC SHALL BE MAINTAINED TO BE FUNCTIONAL. THIS SHALL INCLUDE REMOVAL OF TRAPPED SEDIMENT AND REQUIRED CLEANING, REPAIR AND/OR REPLACEMENT OF THE FILTER FABRIC.

THE COST OF ALL MATERIALS, CONSTRUCTION, MAINTENANCE AND REMOVAL REQUIRED SHALL BE PAID FOR UNDER ITEM 207 - PERIMETER FILTER FABRIC FENCE.

SEEDING & MULCHING

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

ITEN	1 650	_	SOIL_ANALYSIS_TEST	5 FACH
2 <i>m</i>	Й 653	_	TOPSOIL FURNISHED AND PLACED (FOR SLOPES)	6,282 CU. YD.
— ĬŢĔλ	ĭ 659	_	SEEDING AND MULCHING	56,587 SQ. YD.
ITEN	1 659	_	REPAIR SEEDING AND MULCHING	2829 SQ. YD.
ITEN	1 659	_	INTER-SEEDING	2829 SQ. YD.
ITEN	1 659	_	COMMERCIAL FERTILIZER	7.64 TON
ITEN	1 659	_	LIME	11.70 ACRES
ITEN	1 659	_	WATER	306 M. GAL.

(4" OF TOPSOIL SHALL BE FURNISHED AND PLACED ON EXPOSED AREAS ADJACENT TO THE 3
ROADSIDE BERM, SLOPES AND AS DIRECTED BY THE CHIEF ENGINEER.) SEEDING AND
MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY
LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES
COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING
AND MULCHING ARE BASED ON AN ASSUMED LIMIT 10' BEYOND THE SHOULDER FOR THE
LENGTH OF THE PROJECT, THE TOTAL AREA OF DITCH CLEANOUT AS SHOWN, LINEAR GRADING
AREAS AND RAMP CROSS SECTIONS.

THE FOLLOWING ESTIMATED CONTINGENCY QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE CHIEF ENGINEER:

2000 S.Y.

ITEM 671 - EROSION CONTROL MAT, TYPE B

1	ADDENDUM NO. 1	PJF	10/14/16
2	ADDENDUM NO. 4	CLH	10/26/16
NO	. REVISIONS	BY	DATE

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

GENERAL NOTES

M.P. 90.00 TO M.P. 95.90 GPD GROUP.

SANDUSKY COUNTY

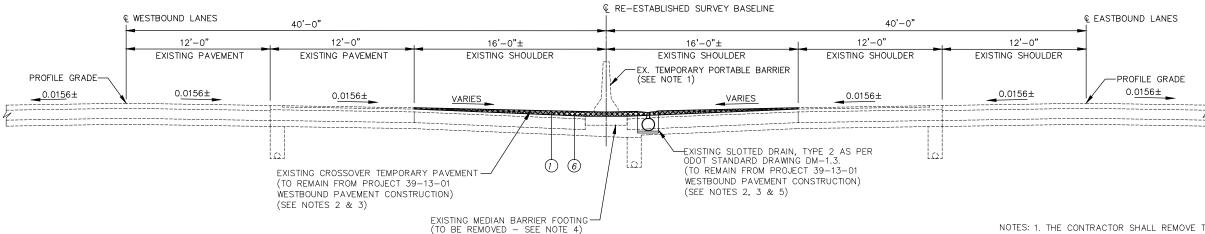
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PROPOSED MAINTENANCE OF TRAFFIC CROSSOVER SECTION

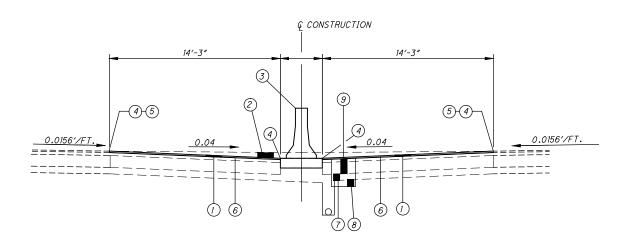
CROSSOVER #1 - STA. 407+19 TO STA. 414+25 CROSSOVER #2 - STA. 743+75 TO STA. 750+81

ITEM LEGEND

EXISTING TEMPORARY PAVEMENT MINIMUM 1½" THICKNESS

- 1 ITEM SP404 1 1/2" ASPHALT CONCRETE SURFACE COURSE, USING CRUSHED STONE, PG 64-22
- 2) ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE (VARIABLE DEPTH)
- (3) ITEM 622 CONCRETE BARRIER TYPE B-50, AS PER PLAN
- (4) ITEM SP404A JOINT SEALER (APPLIED TO VERTICAL FACE)
- 5 ITEM SPECIAL SAWCUT JOINT
- (6) ITEM SPECIAL TRACKLESS TACK FOR INTERMEDIATE COURSE, APPLIED @ 0.06 GAL/S.Y.
- 7 SP 304 AGGREGATE BASE (DEPTH = 7" +/-) *
- 8 SP 304 GRANULAR EMBANKMENT
- SP 302 BITUMINOUS AGGREGATE BASE (DEPTH = 13 1/2" +/-) *

* DEPTH BASED ON RECORD PLANS



CROSSOVER RESTORATION TYPICAL SECTION

NOTES: 1. THE CONTRACTOR SHALL REMOVE THE EXISTING 50"

TEMPORARY PORTABLE BARRIER WITHIN THE MEDIAN THAT REMAINS FROM THE COMPLETION OF PROJECT 39-13-01

WESTBOUND PAVEMENT CONSTRUCTION. THE CONTRACTOR SHALL UTILIZE THE EXISTING 50" TEMPORARY PORTABLE BARRIER TO EXTEND FROM THE MEDIAN WALL ALONG THE PROPOSED CROSSOVERS AS SHOWN ON THE PLANS, THEN TAPER DOWN TO THE TYPICAL 32" TEMPORARY PORTABLE

- 2. THE CONTRACTOR SHALL UTILIZE THE EXISTING CROSSOVER TEMPORARY PAVEMENT AND SLOTTED DRAIN THAT REMAINS FROM THE COMPLETION OF PROJECT 39-13-01 WESTBOUND PAVEMENT CONSTRUCTION.
- 3. THE CONTRACTOR SHALL PERFORM REHABILITATION OF THE CROSSOVER TEMPORARY PAVEMENT AND DRAINAGE REMAINING FROM PREVIOUS WESTBOUND CONSTRUCTION PROJECT 39-13-01 AS DIRECTED BY THE CHIEF ENGINEER. ALL COSTS ASSOCIATED WITH THE REHABILITATION OF THE EXISTING CROSSOVER AND DRAINAGE REPAIRS SHALL BE INCLUDED IN THE LUMP SUM BID FOR SP 614, MAINTAINING TRAFFIC.
- 4. CONCRETE BARRIER WITHIN THE CROSSOVER LIMITS WAS REMOVED WITH THE WESTBOUND CONSTRUCTION PROJECT 39-13-01. ONLY THE CONCRETE BARRIER WAS REMOVED WHILE THE BARRIER FOOTING WAS LEFT IN PLACE. THE CONTRACTOR IS ADVISED THAT THE CONCRETE BARRIER FOOTING SHALL BE REMOVED AS PART OF THE FINAL CROSSOVER RESTORATION AND THAT ALL COSTS ASSOCIATED WITH THE REMOVAL OF THE BARRIER FOOTING SHALL BE INCLUDED IN THE LUMP SUM BID FOR SP 614, MAINTAINING TRAFFIC.
- 5. ALL COSTS ASSOCIATED WITH THE FINAL CROSSOVER RESTORATION INCLUDING BUT NOT LIMITED TO THE REMOVAL OF TEMPORARY PAVEMENT PLACED WITH THE 39-13-01 PROJECT, THE REMOVAL OF THE SLOTTED DRAIN AND ALL TEMPORARY DRAINAGE ITEMS AND THE INSTALLATION OF SONIC NAP ALERT PATTERN (SNAP) ITEMS AS PER OTIC STANDARD DRAWING TCR-13 SHALL BE INCLUDED IN THE LUMP SUM BID FOR SP 614, MAINTAINING TRAFFIC.

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28146 SP 605 28146 FT 6" SHALLOW PIPE U.D., WITH FABRIC WRAP (24") 25844 SP 605 25844 FT 6" SHALLOW PIPE U.D., WITH FABRIC WRAP (30")			_			+			-	27700				CD COF	27700		C" DASE DIDE HINDEDDAIN WITH EADDIC WDAD (40")
25844 FT 6" SHALLOW PIPE U.D., WITH FABRIC WRAP (30")			_	-		+			-								. , ,
				+		-			-								· · · · · · · · · · · · · · · · · · ·
				+					_	23044				3F 0U3	∠5844	FI	U SHALLOW FIFE U.D., WHITH FADRIC WRAF (30)
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I 1 I ADDENDUM NO.1																	1 ADDENDUM NO. 1
2 ADDENDUM NO. 4																	

GPD GROUP. Glass, Pyle, Schomer, Burns B, Delstein, Inc. 330-572-2100 520 South Main Street, Suite 2531, Afono, Ohio 44311 Fex 330-572-2101								
M.P. 90.00 TO M.P. 95.90 SANDUSKY COUNTY								
GENERAL SUMMARY								
OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION								
NO. REVISIONS		BY	DATE					
2 ADDENDUM NO. 4		CLH	10/26/16					
I ADDENDUM NO. I		CLE	10/14/10					

PROJECT NO. 39-17-01 SHEET 105 OF 272

TRAFFIC CONTROL NOTES

ITEM 620 - REMOVAL OF DELINEATOR

THIS ITEM SHALL BE AS OUTLINED IN ITEM 620. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING DELINEATORS LOCATED WITHIN THE PROJECT LIMITS FROM MP 90.0 TO MP 95.8 EASTBOUND.

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

ITEM 620 - REMOVAL OF DELINEATOR

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55 FACH

ITEM 620 - DELINEATOR, POST MOUNTED, AS PER PLAN

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

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

ITEM 620 - DELINEATOR, POST MOUNTED, AS PER PLAN

<u>55</u> EACH

ADDITIONAL PAVEMENT MARKINGS

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE TRAFFIC CONTROL GENERAL SUMMARY, AND ARE INCLUDED TO USE AS DIRECTED BY THE ENGINEER FOR THE PURPOSE OF APPLYING PAVEMENT MARKINGS AND RPM'S BETWEEN M.P. 88.65 (STA. 358+60) TO M.P. 96.26 (STA. 762+00) EASTBOUND AND BETWEEN M.P. 89.51 (STA. 404+00) TO M.P. 96.31 (STA. 764+90) WESTBOUND.

ITEM 642 - EDGE LINE, 6", TYPE 1 (WHITE)	1.49 MILE
ITEM 642 - EDGE LINE, 6", TYPE 1 (YELLOW)	1.44 MILE
ITEM 642 - LANE LINE, 6", TYPE 1	2.88 MILE
ITEM 621 - RAISED PAVEMENT MARKER REMOVED	<u>196</u> EACH
SP 621 - RAISED PAVEMENT MARKER STIMSONITE MODEL 101 LPCR (WHITE)	<u>193</u> EACH
SP 621 - RAISED PAVEMENT MARKER STIMSONITE MODEL 101 LPCR (YELLOW)	<u>3</u> EACH
SP 626 - BARRIER REFLECTOR, TYPE B	<u>62</u> EACH

OTIC ANNUAL PAVEMENT MARKING OPERATIONS - LONG LINE QUANTITIES

THE CONTRACTOR SHALL PERFORM THE ANNUAL PAVEMENT MARKING INSTALLATION FOR THE SINGLE CONSTRUCTION SEASON OF THIS PROJECT.

PRIOR TO IMPLEMENTING CONTRA FLOW DURING THE FIRST CONSTRUCTION SEASON, THE CONTRACTOR SHALL INSTALL PERMANENT PAVEMENT MARKINGS FOR THE NON-CONTRA FLOW OUTSIDE EDGE LINE AND THE OUTSIDE LANE LINE FROM MP 88.68 TO MP 96.38. REALL BEASTBOUND AND WESTBOUND LANE LINES AND EDGE LINES, INCLUDING THE INTERCHANGE PAVEMENT MARKINGS, SHALL BE COMPLETED BEFORE THE CONCLUSION OF THE FIRST CONSTRUCTION SEASON FROM MP 88.68 TO MP 96.38.

PRIOR TO IMPLEMENTING CONTRA FLOW DURING THE SECOND CONSTRUCTION SEASON, THE CONTRACTOR SHALL INSTALL PERMANENT PAVEMENT MARKINGS FOR THE NON CONTRA FLOW OUTSIDE EDGE LINE AND THE OUTSIDE LANE LINE FROM MP 88.68 TO MP 96.38. ALL REMAINING EASTBOUND AND WESTBOUND LANE LINES AND EDGE LINES, INCLUDING THE INTERCHANGE PAVEMENT MARKINGS, SHALL DE COMPLETED DEFORE THE CONCLUSION OF THE SECOND CONSTRUCTION SEASON FROM MP 88.68 TO MP 96.38.

THE FOLLOWING QUANTITIES ARE PROVIDED, TO BE USED AS DIRECTED BY THE ENGINEER AND CARRIED TO THE TRAFFIC CONTROL GENERAL SUMMARY TO ADDRESS THIS ANNUAL PAVEMENT MARKING WORK:

ITEM 642 - 6" EDGE LINE, TYPE 1, (WHITE)	14.86 MILE
ITEM 642 - 6" EDGE LINE, TYPE 1, (YELLOW)	14.44 MILE
ITEM 642 - 6" LANE LINE, TYPE 1, (WHITE)	28.80 MILE
SP 621 - RAISED PAVEMENT MARKER STIMSONITE MODEL 101 LPCR (WHITE)	<u>1928</u> EACH
SP 621 - RAISED PAVEMENT MARKER STIMSONITE MODEL 101 LPCR (YELLOW)	_24_ EACH

ITEM 630 - SIGNING, MISC.: TENTH MILEPOST SIGN ERECTED

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

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE TRAFFIC CONTROL GENERAL SUMMARY TO BE USED IN THE LOCATIONS SHOWN ON THE SIGNING AND PAVEMENT MARKING PLANS:

ITEM 630 - SIGNING, MISC.: TENTH MILEPOST SIGN ERECTED

70 EACH

EASTBOUND MILEPOST SIGN STATIONS

MILEPOST	STATION	MILEPOST	STATION
89.00	375+40.84	92.60	567+14.43
89.10	380+68.84	92.70	572+42.43
89.20	387+73.99	92.80	577+70.43
89.30	393+01.99	92.90	582+98.43
89.40	398+29.99	93.00	588+26.43
89.50	403+57.99	93.10	593+54.43
89.60	408+85.99	93.20	598+82.43
89.70	414+13.99	93.30	604+10.43
89.80	419+44.00	93.40	609+38.43
89.90	424+72.00	93.50	614+66.43
90.00	430+00.00	93.60	619+94.43
90.10	435+28.00	93.70	625+22.43
90.20	440+56.00	93.80	630+50.43
90.30	445+84.00	93.90	635+78.43
90.40	451+12.00	94.00	641+06.43
90.50	456+40.00	94.10	646+34.43
90.60	461+68.00	94.20	651+62.43
90.70	466+96.00	94.30	656+90.43
90.80	472+24.00	94.40	662+18.43
90.90	477+52.00	94.50	667+46.43
91.00	482+80.00	94.60	672+74.43
91.10	488+08.00	94.70	678+02.43
91.20	493+36.00	94.80	683+30.43
91.30	498+64.00	94.90	688+58.43
91.40	503+92.00	95.00	693+86.43
91.50	509+20.00	95.10	699+14.43
91.60	514+48.00	95.20	704+42.43
91.70	519+76.00	95.30	709+70.43
91.80	525+04.00	95.40	714+98.43
91.90	530+32.00	95.50	720+26.43
92.00	535+60.00	95.60	725+54.43
92.10	540+88.00	95.70	730+82.43
92.20	546+16.00	95.80	736+10.43
92.30	551+44.00	96.00	746+66.43
92.40	556+72.00		
92.50	561+86.43		

ITEM SP 621 - RAISED PAVEMENT MARKER

THIS ITEM SHALL BE INSTALLED IN ACCORDANCE WITH SP 621 WITH THE SPACING PER STANDARD DRAWING RPM-1. SEE THE TRAFFIC CONTROL GENERAL SUMMARY FOR QUANTITY DETAILS.

ITEM 621 - RAISED PAVEMENT MARKER REMOVED

RAISED PAVEMENT MARKERS SHALL BE REMOVED FROM THE OHIO TURNPIKE ON ALL LANES WITHIN THE LIMITS OF THE MAINTENANCE OF TRAFFIC ZONE. THE CONTRACTOR SHALL ONLY REMOVE THE EXISTING REFLECTORS OUTSIDE THE PROJECT LIMITS AS SHOWN IN THE PLANS.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE TRAFFIC CONTROL GENERAL SUMMARY TO BE USED THROUGHOUT THE PROJECT AS DIRECTED BY THE ENGINEER.

ITEM 621 - RAISED PAVEMENT MARKER REMOVED

1952 EACH

ITEM SP 626 - BARRIER REFLECTORS

FOLLOWING COMPLETION OF THE PROJECT, NEW BARRIER REFLECTORS SHALL BE INSTALLED ON THE EXISTING MEDIAN WALL IN THE EASTBOUND DIRECTION FROM THE BEGINNING OF PROJECT AT MP 90.0 TO THE END OF THE PROJECT AT MP 95.8. BARRIER REFLECTOR SPACING SHALL CONFORM TO SP 626. MATERIAL SPECIFICATIONS SHALL CONFORM TO SP 626.

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

SP 626 - BARRIER REFLECTOR, TYPE B

<u>311</u> EACH

ITEM 630 - SIGNING, MISC.: MILEPOST AND TENTH MILEPOST SIGN REMOVED

THIS ITEM SHALL BE AS OUTLINED IN ITEM 630. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING MILEPOST AND TENTH MILEPOST SIGNS AND SUPPORTS WITHIN THE PROJECT LIMITS AS SHOWN ON THE PLAN SHEETS.

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

ITEM 630 - SIGNING MISC: MILEPOST AND TENTH MILEPOST SIGN REMOVED

70 EACH

ITEM 630 - TRIANGULAR SLIP BASE CONNECTION, AS PER PLAN

IN ADDITION TO THE WORK DETAILED IN CMS 630 AND THE STANDARD CONSTRUCTION DRAWING TC-41.15, THIS ITEM OF WORK SHALL INCLUDE FIELD WELDING THREE 1" LENGTH WELDS WITH 1/4" WIDTH EVENLY SPACED AROUND THE PERIMETER OF THE STRUCTURAL PIPE WHERE IT MEETS THE SLIP BASE CASTING. THE WELDING SHALL OCCUR AFTER THE SIGN HAS BEEN ATTACHED AND PROPERLY ALIGNED WITH THE ROADWAY. AFTER WELDING, THE WELD AND ALL AREAS OF DAMAGED GALVANIZED COATING SHALL BE COATED WITH ZINC-RICH PAINT TO PROTECT THE STRUCTURAL PIPE AND SLIP BASE CONNECTION.

PAYMENT SHALL BE FOR EACH TRIANGULAR SLIP BASE CONNECTION, AS PER PLAN IN PLACE PER THE PLANS.

1	ADDENDUM NO. 4	LOB	10/25/16										
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NO.	REVISIONS	BY	DATE										
IN	OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION												
	TRAFFIC CONTROL NOTES												
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PROJECT NO. 39-17-01 SHEET 188 OF 272

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	SHEET NUMBER											ITEM	GRAND	LINUT	DESCRIPTION		
INSERT 107	188	191	192	193	194	195	196	197					ITEM	TOTAL	UNIT	DESCRIPTION	
_																	
	55												620	55	EACH	REMOVAL OF DELINEATOR	
	55												620	55	EACH	DELINEATOR, POST MOUNTED, AS PER PLAN	
16	2 1 4 9	450					+						624	2 200	FACIL	DAIGED DAVEMENT MADIZED DEMOVED	
16	2,148	152						+					621	2,300		RAISED PAVEMENT MARKER REMOVED RAISED PAVEMENT MARKER STIMSONITE MODEL 101LPCR (WHITE)	
16	2,121	144 8											SP 621 SP 621	2,265 35		RAISED PAVEMENT MARKER STIMSONITE MODEL 101LPCR (WHITE)	
	21	0											01 021	- 55	L/(OI)		
187													SP 626	187	EACH	BARRIER REFLECTOR, TYPE A	
11	373												SP 626	384	EACH	BARRIER REFLECTOR, TYPE B	
							07.0	400.0					000	470.0	гт	CROUND MOUNTED CTRUCTURAL REAM CURRORT, CAVA 7	
							37.6						630	176.6	FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, S4X7.7	
							34.0						630	69.2		GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W6X9	
							77.0	48.8					630 630	48.8	FT FT	GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W8X18 GROUND MOUNTED STRUCTURAL BEAM SUPPORT, W10X12	
			1		1		11.0	79.9					630	156.9 2		GROUND MOUNTED STROCTORAL BLAW SUPPORT, WIDNIZ	
													030		LACIT	CROOME MODIFIED COLL ONLY, I'M E	-
			9	44	1		8	11					630	73	EACH	SIGN POST REFLECTOR	-
							8	16					630	24	EACH	BREAKAWAY STRUCTURAL BEAM CONNECTION	
			1		1								630	2	EACH	TRIANGULAR SLIP BASE CONNECTION, AS PER PLAN	
			4			12							630	16	EACH	SIGN SUPPORT ASSEMBLY, BRIDGE MOUNTED, AS PER PLAN	
							8	16					630	24	EACH	GROUND MOUNTED STRUCTURAL BEAM SUPPORT FOUNDATION	
			1		1		+						630	2	FACH	GROUND MOUNTED PIPE SUPPORT FOUNDATION	
			21	28	23	20	11	17					630	120		SIGN ERECTED, FLAT SHEET, AS PER PLAN	
				20	20	20	4	10					630	14		SIGN ERECTED, EXTRUSHEET, AS PER PLAN	
	70							10					630	70	EACH	SIGNING MISC.: TENTH MILEPOST SIGN ERECTED	-
	70												630	70		SIGNING MISC.: MILEPOST AND TENTH MILEPOSTS SIGN REMOVED	
			14	22	15	10	17	20					630	98		REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
			18	30	12	12	13	13					630	98		REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
					_		2	7					630	9		REMOVAL OF GROUND MOUNTED MAJOR SIGN AND DISPOSAL	
					2		6	14					630	22		REMOVAL OF BRIDGE MOUNTED STRUCTURAL BEAM SUPPORT AND DISPOSAL	
			2			6							630	8	EACH	REMOVAL OF BRIDGE MOUNTED SIGN AND DISPOSAL, AS PER PLAN	
			4		6	4							630	14	EACH	REMOVAL OF BARRIER MOUNTED SIGN AND DISPOSAL	
			2		3	2							630	7		REMOVAL OF BARRIER MOUNTED POST SUPPORT AND DISPOSAL	
	16.35												642	16.35		EDGE LINE, 6", TYPE 1 (WHITE)	
	15.88												642	15.88		EDGE LINE, 6", TYPE 1 (YELLOW)	
0.25	31.68	2,478											642	31.68	MILE	LANE LINE, 6", TYPE 1 (WHITE) DOTTED LINE, 6", TYPE 1 (WHITE)	
		3,401											642 642	3,401		CHANNELIZING LINE, 12", TYPE 1 (WHITE)	
	 	3,401											042	3,401	FI	OTHER DELINE, 12, 111 ET (WITTE)	
		10											SPECIAL	5 10	EACH	AIR SPEED ZONE MARKING	
	1																
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OHIO TURNPIKE AND													
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1	ADDENDUM NO. 4	LOB	10/25/1										

INFRASTRUCTURE COMMISSION TRAFFIC CONTROL GENERAL SUMMARY

M.P. 90.00 TO M.P. 95.90

SANDUSKY COUNTY

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						SP 621	SP 621	621	642	642	SPECIAL							
	, ON					MARKER - 101LPCR	MARKER - 101LPCR	MARKER	12", TYPE	TYPE 1	MARKING							
SHEET NO.	ENCE	LOCATION	OCATION STATION		CATION STATION		SIDE	EMENT P MODEL HITE)	EMENT N MODEL LLOW)		G LINE, VHITE)	NE, 6", 1 'HITE)	ZONE M.					
SHE	REFERENCE NO					RAISED PAVEMENT N STIMSONITE MODEL (WHITE)	RAISED PAVEMENT M STIMSONITE MODEL 1 (YELLOW)	RAISED PAVEMENT REMOVED	HANNELIZING LINE, 1 1 (WHITE)	DOTTED LINE, 6", '	SPEED 7							
	<u> </u>					RAIS	STIM		O		AIR							
-			FROM	ТО		EACH	EACH	EACH	FT	FT	EACH							
209	Е	IR 80	497+00	499+50	RT					250								
209	E	IR 80	499+00	499+50	LT					50								
210	E	IR 80	499+50	507+32	LT					782								
210	D	IR 80	507+32	510+03	LT	7	4	11	271									
210 210	D E	IR 80 IR 80	507+32. 499+50	510+03 500+17	LT RT	11		11	271	67								
210	D	IR 80	500+17	505+80	RT	28		28	563									
210	D	RAMP C	100+17	105+81	LT	29		29	564									
211	D	IR 80	521+80	523+50	RT	5		5	170									
211	D	IR 80	521+80	523+50	RT	5		5	170									
212	D	IR 80	525+00	529+99	LT	25	4	29	499									
212	D	IR 80	525+00	529+99	LT	24		24	499									
212	E	IR 80	529+99	534+45	LT					446								
212 212	E D	IR 80 IR 80	525+47 523+50	534+30 525+47	RT RT	5		5	197	883								
212	D	IR 80	523+50	525+47	RT	5		5	197									
213	F	IR 80	535+60		LT						1							
213	F	IR 80	535+60		LT						1							
214 214	F F	IR 80 IR 80	548+80 548+80		LT LT						1 1							
217	'	111 00	040100								'							
215	F	IR 80	561+86		LT						1							
215	F	IR 80	561+86		LT						1							
216	F	IR 80	575+06		LT						1							
216	F	IR 80	575+06		LT						1							
217	F	IR 80	588+26		LT						1							
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Model	<u> </u>	TOTALS FOR CONS	STRUCTION SEAS	20N 2-	<u> </u>	<u> </u>			\		}							
Layout:	TOTALS (CARRIED TO TRAFFIC	CONTROL GENE	ERAL SUMMARY		144	8	152	3401	2478	10							
1.dwg														1	ADDENDUM NO. 4	LOB 10/25/1		
57500 5796:														•	-			
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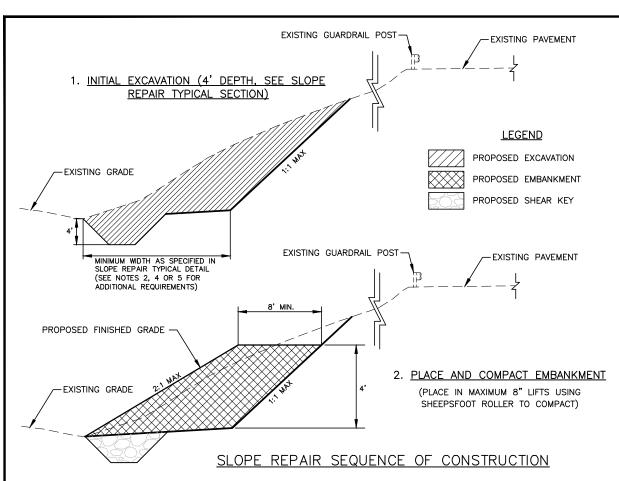
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NO.	REVISIONS	BY	DATE								
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OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION PAVEMENT MARKING SUBSUMMARY SHEET 1 OF 1 M.P. 90.00 TO M.P. 95.90 SANDUSKY COUNTY

30.00 TO WI.F. 33.30	SANDUSKI	CO
GPD GROUP	o ven, Inc. 33	10-52

PROJECT NO. 39-17-01 SHEET 191 OF 272

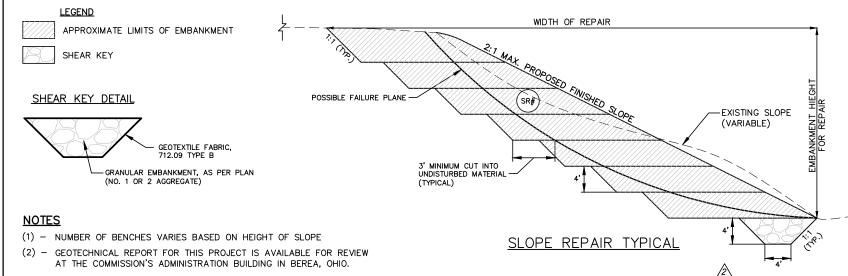
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GENERAL NOTES

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- (1) THE GENERAL AREA OF SLOPE FAILURE REPAIRS ARE SHOWN ON THE PLAN AND PROFILE SHEETS. THIS ITEM SHALL CONSIST OF EXCAVATING, DRYING THE SOIL AND EMBANKING THE EXISTING SLOPE MATERIAL WITH THE INCLUSION OF A LIMESTONE SAND TO REBUILD THE SLOPES IN ACCORDANCE WITH THE NOTES AND DETAILS ON THIS SHEET. THE QUANTITIES FOR EXCAVATION INCLUDING EMBANKMENT CONSTRUCTION SHALL BE PAID BY THE NUMBER OF CUBIC YARDS PLACED TO REESTABLISH THE EXISTING SLOPES.
- (2) THE SLOPE REPAIR SEQUENCE OF CONSTRUCTION SHOWN ON THIS SHEET CORRESPONDS TO THE SLOPE REPAIR TYPICAL ON THIS SHEET. THE REPAIR SEQUENCE IN OTHER AREAS SHALL BE CONSTRUCTED IN SIMILAR SEQUENTIAL ORDER BEGINNING WITH INITIAL FILL.
- (3) THE FAILURE PLANE SHOWN AND THE LIMITS OF CORRECTIVE WORK ARE ESTIMATED. THE ACTUAL FAILURE PLANE SHALL BE DETERMINED BY CAREFUL TRENCHING NORMAL TO THE EMBANKMENT PRIOR TO ANY EXCAVATION AND/OR REMOVAL OF THE FAILED EMBANKMENT MATERIAL. THE PRESENCE OF, AND LOCATION OF, THE FAILURE PLANE SHALL BE VERIFIED BY THE CHIEF ENGINEER AND COMMISSION'S TESTING LAB.
- (4) THE CONTRACTOR SHALL REMOVE THE EXISTING SLOPE MATERIAL AND SPREAD OUT AND DRY THE SOIL IN ACCORDANCE
- (5) BENCHES SHALL BE CUT INTO SOFT OR LOOSE MATERIAL AND EXTEND A MINIMUM OF 3 FEET BEYOND THE FAILURE PLANE INTO FIRM AND STABLE MATERIAL. BENCHING AND LIMITS OF CORRECTIVE WORK SHOWN ON THE PLANS SHALL BE MODIFIED, IF NECESSARY, IN ACCORDANCE WITH THE FIELD CONDITIONS TO ENSURE THAT THE FAILURE PLANE IS LOCATED AND MATERIAL IS REMOVED AND REPLACED TO THE DIMENSIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE CHIFF ENGINEER
- (6) THE TOP 6 INCHES OF SUBGRADE AT THE BOTTOM OF THE EMBANKMENT EXCAVATION SHALL BE COMPACTED TO A
- MINIMUM DENSITY OF 98% (AASHTO T-99) PRIOR TO PLACING NEW EMBANKMENT MATERIAL. FOLLOWING COMPLETION OF THE INITIAL BENCH EXCAVATION, EXCAVATION OF THE SHEAR KEY AT THE TOE OF THE PROPOSED FINAL SLOPE GRADE SHALL BE PERFORMED PRIOR TO PLACING THE NEW EMBANKMENT. THE DIMENSIONS OF THE SHEAR KEY SHALL BE AS SHOWN ON THE SLOPE REPAIR TYPICAL DETAIL AND PLACEMENT OF THE MATERIAL SHALL BE IN ACCORDANCE WITH ITEM 203.
- (8) THE SURFACE OF BENCHED AREAS SHALL BE SLOPED TO DRAIN DURING INCLEMENT WEATHER TO PREVENT SATURATION OF THE CONSTRUCTED BENCHES.
- (9) PLACEMENT AND COMPACTION OF EMBANKMENT SHALL BE DONE IN NO MORE THAN 8" LIFTS. WHERE REQUIRED FOR STABILITY, THE CONTRACTOR SHALL MIX ONE (1) INCH OF A LIMESTONE SAND PER EIGHT (8) INCH LIFT (APPROXIMATELY 10% RATIO BY VOLUME BLENDED IN THE CLAY SOILS). THIS MODIFIED SOIL SHALL BE PLACED / BENCHED AS SHOWN ON THE SLOPE REPAIR TYPICAL AND COMPACTED IN ACCORDANCE WITH ITEM 203. THE CONTRACTOR SHALL ALSO PROVIDE THE MEANS AND METHOD BY WHICH THE CONTRACTOR INTENDS ON DRYING AND MIXING THE EXISTING EMBANKMENT MATERIAL WITH THE LIMESTONE SAND FOR REVIEW AND APPROVAL BY THE CHIEF ENGINEER.
- ALL EMBANKMENT MATERIAL UNDER ITEM 203, SHALL BE TESTED BY THE COMMISSION TO INSURE THAT THE MATERIAL HAS A MINIMUM EFFECTIVE FRICTION ANGLE OF 28 DEGREES AND SHALL EXHIBIT A MINIMUM DRAIN COHESION OF 200 PSF. THE TESTING RESULTS OF THE COMMISSION'S TESTING AGENCY SHALL BE THE DETERMINING FACTOR FOR THIS REQUIREMENT. THE TEST RESULTS OF THE CONTRACTOR'S TESTING AGENCY WILL NOT BE CONSIDERED FOR THIS REQUIREMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING/EXCAVATING A MINIMUM OF TWO SAMPLES OF THE EXISTING SLOPE MATERIAL AT A DEPTH OF 1 TO 3 FEET BELOW GRADE FOR EACH SLOPE AREA TO BE TESTED BY THE COMMISSION'S TESTING AGENCY. THE SAMPLES SHALL BE OBTAINED AT THE BEGINNING AND END LIMITS OF THE SLIDE REPAIR AREA, AT THE MIDPOINT OF THE SLOPE OR AS FAR AS THE EXCAVATION EQUIPMENT CAN REACH FROM
- (11) ALTHOUGH A TYPICAL CROSS SECTION IS PROVIDED INDICATING PROPOSED BENCHING OF THE EMBANKMENT FOUNDATION THROUGHOUT THE PROJECT, NO WAIVER OF SPECIFICATION IS INTENDED. ALL OTHER SLOPE EMBANKMENT AREAS SHALL BE BENCHED AS SET FORTH IN THE ITEM 203. NO ADDITIONAL PAYMENT WILL BE MADE FOR BENCHING REQUIRED
- IF THE REQUIREMENTS OF NOTE 10 ARE NOT MET, A CONTINGENCY QUANTITY OF 4030 CY OF ITEM SPECIAL LIMESTONE SAND HAS BEEN CARRIED TO THE GENERAL SUMMARY TO IMPROVE THE SOIL AS DIRECTED BY THE COMMISSION'S TESTING AGENCY. THE ADDITIONAL SAND SHALL BE INCORPORATED IN A UNIFORM THICKNESS OF LIMESTONE SAND PER EIGHT (8") INCH LIFT PRIOR TO EMBANKING THE SOIL. THE LIMESTONE SAND SHALL MEET THE REQUIREMENTS OF LIMESTONE FINE AGGREGATE IN ACCORDANCE WITH 703 OF THE CMS.



								203	203	203	204	{ 653}	659	671
SLOPE REPAIR AREA	MILE POST		MILE POST LENGTH DESIGNA FOR REF		ATED WIDTH EMBANKMENT		AVERAGE NUMBER OF BENCHES	EXCAVATION, INCLUDING EMBANKMENT AS PER PLAN (#)	BORROW	GRANULAR EMBANKMENT, AS PER PLAN (SHEAR KEY) (*)	GEOTEXTILE FABRIC, TYPE B	TOPSOIL FURNISHED & PLACED (FOR SLOPES)	SEEDING	EROSION CONTROL MAT, TYPE B
(SL)	BEGIN	END	FEET	FEET	FEET	FEET	EACH	CU. YD.	CU. YD.	CU. YD.	SQ. YD.	CU. YD.	SQ. YD.	SQ. YD.
SL-1	90.32	90.33	55	95	60	23	5.75	1295	647	65	167	54	493	493
SL-2	90.41	90.43	130	170	60	25	6.25	2519	1259	154	395	108	979	979
SL-3	90.51	90.54	165	205	68	29	7.25	3523	1761	196	501	151	1370	1370
SL-4	90.74	90.77	170	210	84	36	9	4480	2240	201	516	194	1765	1765
SL-5	90.86	90.94	400	440	68	28	7	7301	3650	474	1214	325	2953	2953
SL-6	92.44	92.45	75	115	92	38	9.5	2590	1295	89	228	111	1007	1007
SL-7	92.55	92.65	500	540	68	26	6.5	8320	4160	593	1517	401	3645	3645
SL-8	95.38	95.56	920	960	60	18	4.5	10240	5120	1090	2792	546	4961	4961
					TALS CAR	RIED_TO_GENERA	L SUMMARY	40267	_ 20133_	2862	7329	1889	17174	17174

(#) - THE ESTIMATED QUANTITIES FOR EXCAVATION INCLUDING EMBANKMENT, AS PER PLAN ARE APPROXIMATE AND BASED ON A SET REMOVAL AREA OF 16' X 4' X LENGTH DESIGNATED FOR REPAIR X NUMBER OF BENCHES. THE ACTUAL EXCAVATION INCLUDING EMBANKMENT QUANTITIES SHALL BE VERIFIED BY FIELD SURVEY. THE CONTRACTOR SHALL FIELD SURVEY THE SLOPE REPAIR AREA PRIOR TO, DURING, AND AFTER EXCAVATION AND EMBANKMENT OPERATIONS. THE SURVEY SHALL GENERATE CROSS SECTIONS AT 100 FOOT INTERVALS. AVERAGE END AREAS WILL BE USED TO DETERMINE THE ACTUAL AMOUNT OF MATERIAL REMOVED AND REPLACED. WHERE THE CONTRACT CALLS OUT "EXCAVATION INCLUDING EMBANKMENT" THE WORK FOR EMBANKMENT WILL NOT BE PAID FOR AS SUCH, BUT WILL BE CONSIDERED INCIDENTAL TO "EXCAVATION INCLUDING EMBANKMENT". THE (*) — THE ESTIMATED QUANTITY OF EXCAVATION AND GRANULAR EMBANKMENT, AS PER PLAN (NO. 1 OR 2 AGGREGATE) FOR THE SHEAR KEY ARE BASED ON A CONSTANT CROSS SECTION AS SHOWN IN THE SLOPE REPAIR TYPICAL DETAIL AND THE LENGTH OF THE REPAIR AREA (NOT THE LENGTH DESIGNATED FOR REPAIR).

BENCHING UNDERCUT AND REPLACEMENT

IF UNSUITABLE MATERIAL AND/OR UNSTABLE SOIL IS ENCOUNTERED AT THE BOTTOM OF THE BENCH CUT, UNDERCUT THE UNSUITABLE/UNSTABLE MATERIAL TO A DEPTH OF 1.5 FEET BELOW THE BOTTOM OF THE BENCH CUT AND REPLACE WITH ITEM 203 GRANULAR MATERIAL, TYPE C, WITH ITEM 204 GEOTEXTILE FABRIC, 712.09 TYPE A. THE FOLLOWING ESTIMATED CONTINGENCY QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE CHIEF ENGINEER FOR BENCHING UNDERCUT AND REPLACEMENT

95 CY

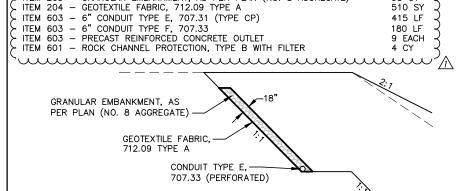
510 SY

ITEM 203 - GRANULAR MATERIAL, TYPE C ITEM 204 - GEOTEXTILE FABRIC, 712.09 TYPE A 460 SY

ITEM 203 - GRANULAR EMBANKMENT, AS PER PLAN (NO. 8 AGGREGATE)

BENCHING SLOPE DRAINS

IF WET, UNSTABLE SOILS ARE ENCOUNTERED DURING CONSTRUCTION OF THE BENCHING, SLOPE DRAINS SHALL BE INSTALLED AT THE BACK OF THE EXCAVATION AS DETAILED BELOW. THESE DRAINS SHALL CONSIST OF ITEM 203 GRANULAR EMBANKMENT, AS PER PLAN (NO. 8 AGGREGATE), ITEM 204 GEOTEXTILE FABRIC, 712.09 TYPE A, AND ITEM 603 — 6"CONDUIT TYPE E, 707.31 (TYPE CP). THE GRANULAR EMBANKMENT SHALL BE PLACED IN LIFTS AS THE BENCHING BACKFILL IS CONSTRUCTED. TRANSVERSE OUTLET DRAINS SHALL OUTLET FROM THE AGGREGATE DRAIN AT THE LOW END OF THE BENCHES. THESE OUTLET DRAINS SHALL CONSIST OF ITEM 603 CONDUIT TYPE F, 707.33 WITH ITEM 603 PRECAST REINFORCED CONCRETE OUTLETS. TRANSVERSE OUTLET SHALL BE INSTALLED AT A MINIMUM 1 PERCENT SLOPE AND OUTLET THROUGH THE FACE OF THE SLOPE. PROVIDE ITEM 601 ROCK CHANNEL PROTECTION WITH FILTER FABRIC LINING OR OTHER EROSION PROTECTION BELOW THE OUTLETS, EXTENDING TO THE TOE OF THE SLOPE. THE FOLLOWING ESTIMATED CONTINGENCY QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE CHIEF ENGINEER FOR BENCHING SLOPE DRAINS.

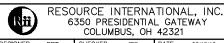


BENCHING SLOPE DRAIN DETAIL

ADDENDUM NO. ADDENDUM NO. 4 REVISIONS BY DATE

OHIO TURNPIKE AND INFRASTRUCTURE COMMISSION

SLOPE REPAIR DETAIL 1



CONTRACT 39-17-01 SHEET 1

PLAN INSERT SHEET 1