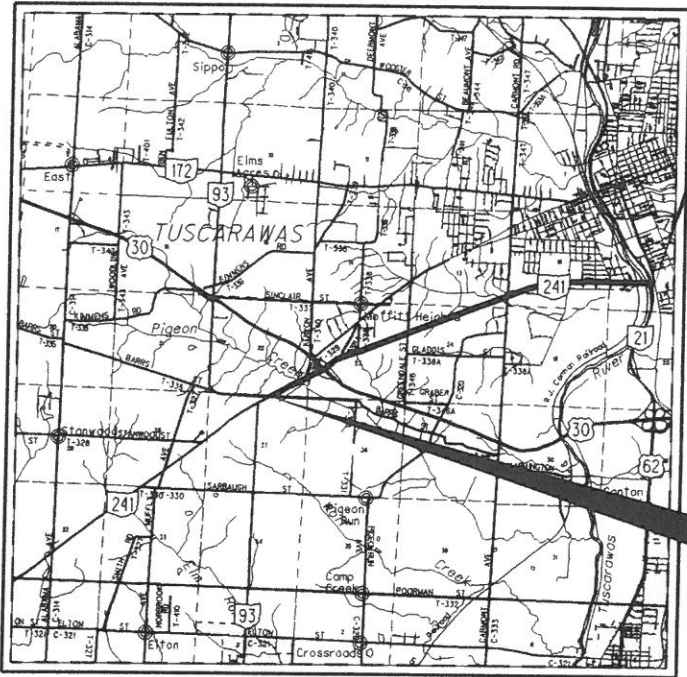


STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

STA-241-3.64
CITY OF MASSILLON
TUSCARAWAS TOWNSHIP
STARK COUNTY



LOCATION MAP

LATITUDE: N40°45'52" LONGITUDE: W81°35'30"



PORTION TO BE IMPROVED	-----
INTERSTATE HIGHWAY	-----
FEDERAL ROUTES	-----
STATE ROUTES	-----
COUNTY & TOWNSHIP ROADS	-----
OTHER ROADS	-----

DESIGN DESIGNATION

DESIGN FUNCTIONAL CLASSIFICATION:
MAJOR COLLECTOR (3.64-4.16)
MINOR ARTERIAL (4.16-6.01)
URBAN MINOR ARTERIAL (6.01-7.86)
NHS PROJECT ----- NO

DESIGN EXCEPTIONS

NONE

UNDERGROUND UTILITIES	
CONTACT BOTH SERVICES CALL TWO WORKING DAYS BEFORE YOU DIG	
CALL 1-800-362-2764 (TOLL FREE)	
OHIO UTILITIES PROTECTION SERVICE NON-MEMBERS MUST BE CALLED DIRECTLY	
OIL & GAS PRODUCERS UNDERGROUND PROTECTION SERVICE CALL: 1-800-925-0988	

PLAN PREPARED BY:
ODOT-DISTRICT 4
2088 S. ARLINGTON ROAD
AKRON, OHIO 44306

ENGINEERS SEAL:



SIGNED: [Signature]
DATE: 6-10-14

INDEX OF SHEETS:

TITLE SHEET	1
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PROJECT DESCRIPTION

IMPROVEMENT OF 4.22 MILES OF S. R. 241 IN STARK COUNTY BY PLANING 1.5" OF SURFACE AND PLACING OF ASPHALT LAYER. PARTIAL DEPTH REPAIRS ARE TO BE INCLUDED. WORK ON THREE STRUCTURES AT S. L. M. 3.96, 4.22, 7.66

PROJECT EDA: 3.47 ACRES
ESTIMATED CONTRACTOR EDA: 0.25 ACRES
NOTICE OF INTENT EDA: 3.72 ACRES

2013 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVED THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.

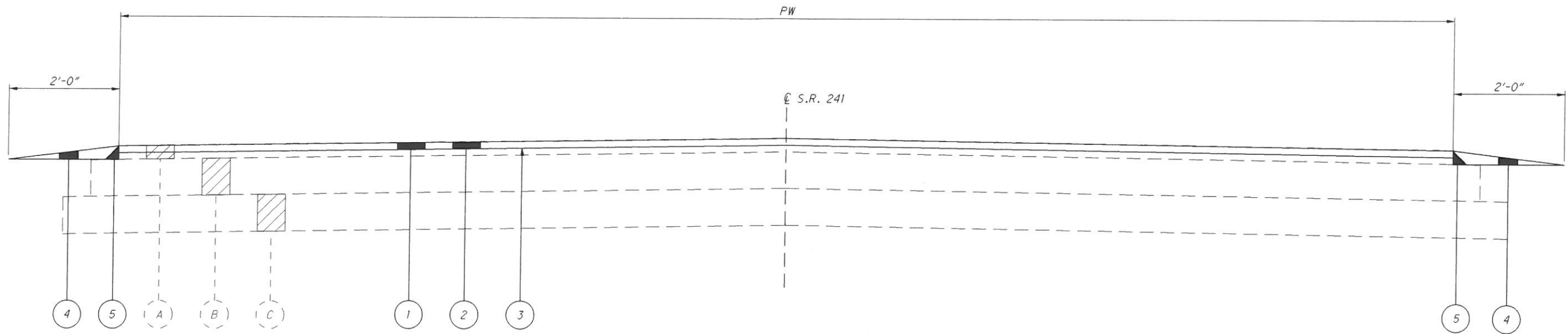
STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-3.1	4/20/12	RM-1.1	1/18/13			800-2013 4/18/14	WPC 11/26/13
BP-4.1	7/19/13					821 4/20/12	
BP-5.1	7/19/13	MT-95.31	7/19/13			832 1/17/14	
BP-7.1	10/15/10	MT-95.32	7/19/13			843 4/18/03	
		MT-97.10	7/19/13				
DM-4.3	1/18/13	MT-97.12	7/19/13				
DM-4.4	7/20/12	MT-99.20	7/19/13				
		MT-101.90	7/19/13				
MGS-1.1	7/19/13	MT-105.10	7/19/13				
MGS-2.1	7/19/13						
MGS-3.2	1/18/13	TC-41.20	10/18/13				
MGS-4.2	7/19/13	TC-42.10	10/18/13				
MGS-4.3	1/18/13	TC-42.20	10/18/13				
MGS-5.2	7/19/13	TC-65.10	1/17/14				
MGS-5.3	7/19/13	TC-65.11	1/17/14				

APPROVED: [Signature]
DATE: 6-10-14 DISTRICT DEPUTY DIRECTOR

APPROVED: _____
DATE: _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT NO. E080(845)
PID NO. 82927
CONSTRUCTION PROJECT NO. _____
RAILROAD INVOLVEMENT NORFOLK SOUTHERN RJ CORMAN
STA-241-3.64

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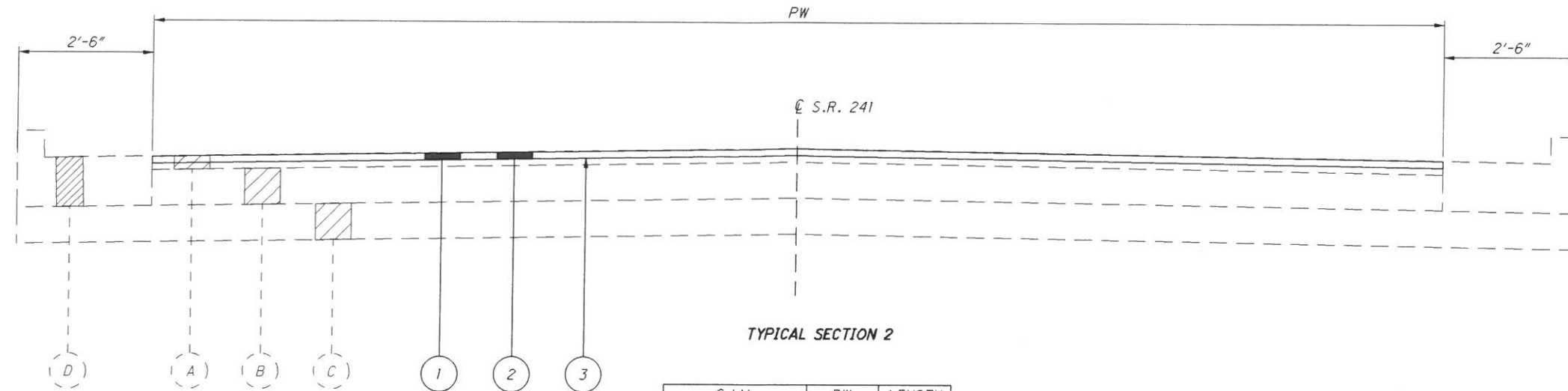
TYPICAL SECTION I

S.L.M.		PW (FT)	LENGTH (MILES)
FROM	TO		
3.64	3.87	26	0.23
3.87	4.08	44	0.21
4.08	4.16	58	0.08
4.16	4.22	62.5	0.06
4.28	4.57	63	0.29
4.57	4.68	53	0.11
4.68	6.01	43	1.33
6.01	6.21	43	0.20
6.21	6.43	50	0.22
6.43	6.89	43	0.46
6.89	6.94	50	0.05
6.94	6.99	58	0.05

LEGEND

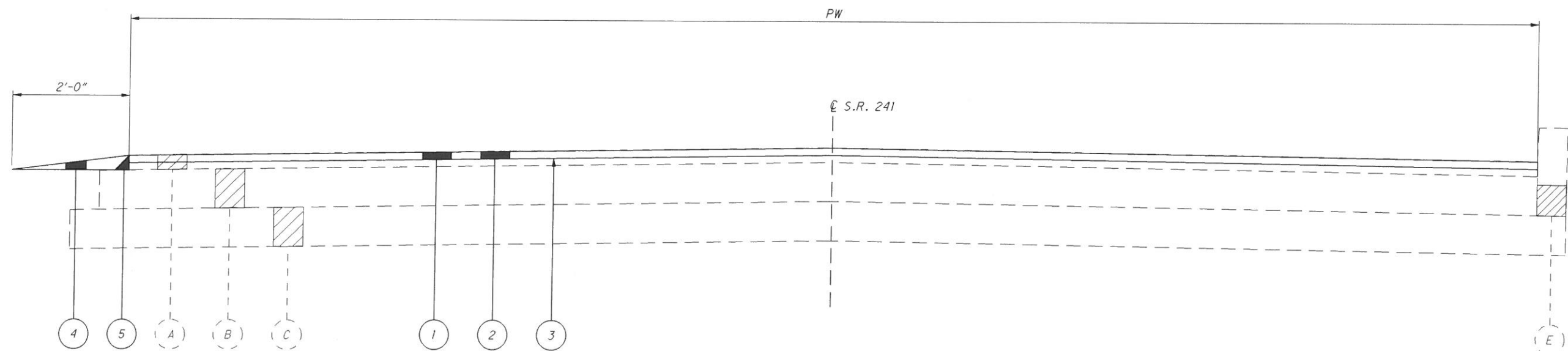
- | | |
|------------------------------------|--|
| (A) EXISTING ASPHALT CONCRETE | (1) 254, PAVEMENT PLANING ASPHALT CONCRETE (T=1 1/2") |
| (B) EXISTING ASPHALT CONCRETE BASE | (2) 448, ASPHALT CONCRETE SURFACE, TYPE 1, PG70-22M, AS PER PLAN (T= 1 1/2") |
| (C) EXISTING AGGREGATE BASE | (3) 407, TACK COAT @ 0.15 GAL/SY |
| (D) EXISTING CURB AND GUTTER | (4) 617, COMPACTED AGGREGATE, AS PER PLAN (T=2") |
| (E) EXISTING CURB | (5) SAFETY EDGE, REFER TO SAFETY EDGE DETAIL SHEET 4 |

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TYPICAL SECTION 2

S.L.M.		PW (FT)	LENGTH (MILES)
FROM	TO		
6.99	7.19	36	0.20
7.19	7.24	42	0.05
7.24	7.47	48	0.23
7.49	7.59	48	0.10
7.85	7.86	101.5	0.01



TYPICAL SECTION 3

S.L.M.		PW (FT)	LENGTH (MILES)
FROM	TO		
7.59	7.66	57	0.07

* SEE SHEET 2 FOR LEGEND

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SAFETY EDGE (ASPHALT CONCRETE)

IN ADDITION TO THE REQUIREMENTS OF 401.12, ATTACH A DEVICE TO THE SCREED OF THE PAVER THAT CONFINES THE MATERIAL AT THE END GATE AND EXTRUDES THE ASPHALT MATERIAL IN SUCH A WAY THAT RESULTS IN A COMPACTED WEDGE SHAPE PAVEMENT EDGE OF APPROXIMATELY 30 DEGREES (NOT STEEPER THAN 40 DEGREES). ENSURE THE DEVICE MAINTAINS CONTACT WITH THE EXISTING SURFACE, AND ALLOW FOR AUTOMATIC TRANSITION TO CROSS ROADS, DRIVEWAYS AND OBSTRUCTIONS. DO NOT USE CONVENTIONAL SINGLE PLATE STRIKE OFF.

CONSTRUCTION OF SAFETY EDGE CAN BE OMITTED AT LOCATIONS WHERE EXISTING WIDTH OF GRADED SHOULDER OR BERM IS LESS THAN 12". PROJECTS WITH VARYING CONDITIONS SHOULD USE SAFETY EDGE WHERE POSSIBLE. PLAN PREPARATION HAS MADE EVERY REASONABLE ATTEMPT TO IDENTIFY POSSIBLE SAFETY EDGE LOCATIONS.

USE THE TRANSTECH SHOULDER WEDGE MAKER, THE CARLSON SAFETY EDGE END GATE, THE ADVANT-EDGER, THE TROXLER SAFETY SLOPE OR A SIMILAR APPROVED-EQUAL DEVICE THAT PRODUCES THE SAME WEDGE CONSOLIDATION RESULTS. CONTACT INFORMATION FOR THESE WEDGE SHAPE COMPACTION DEVICES IS THE FOLLOWING:

TRANSTECH SYSTEMS, INC.
1594 STATE STREET
SCHENECTADY, NY 12304
1-800-724-6306
WWW.TRANSTECHSYS.COM

ADVANT-EDGE PAVING EQUIPMENT LLC
P.O. BOX 9163
NISKAYUNA, NY 12309-0163
518-280-6090
WWW.ADVANTAEDGEPAVING.COM

CARLSON SAFETY EDGE END GATE
18425 50TH AVENUE EAST
TACOMA, WA 98446
253-875-8000

TROXLER ELECTRONIC LABORATORIES, INC.
3008 E. CORNWALLIS RD.
RESEARCH TRIANGLE PARK, NC 27709
1-877-TROXLER
WWW.TROXLERLABS.COM

IF ELECTING TO USE A SIMILAR DEVICE, PROVIDE PROOF THAT THE DEVICE HAS BEEN USED ON PREVIOUS PROJECTS WITH ACCEPTABLE RESULTS OR CONSTRUCT A TEST SECTION PRIOR TO THE BEGINNING OF WORK AND DEMONSTRATE WEDGE COMPACTION TO THE SATISFACTION OF THE ENGINEER. SHORT SECTIONS OF HANDWORK WILL BE ALLOWED WHEN NECESSARY FOR TRANSITIONS AND TURNOUTS OR OTHERWISE AUTHORIZED BY THE ENGINEER.

IN ADDITION TO THE REQUIREMENTS OF 401.16, MAKE THE FIRST ROLLER PASS 8 TO 12 INCHES AWAY FROM TAPERED EDGE. DO NOT ROLL THE TAPER.

ITEM 209, PREPARING SUBGRADE FOR SHOULDER PAVING, AS PER PLAN.

PREPARE THE SHOULDER FOR PAVING A CONSISTENT SAFETY EDGE IN BOTH THICKNESS AND WIDTH.

PRIOR TO PAVING THE SAFETY EDGE, GRADE AN AREA 10 INCHES WIDE, BEGINNING AT THE EDGE OF THE PAVED ROADWAY, TO PROVIDE A LEVEL SURFACE FREE OF VEGETATION FOR CONSTRUCTION OF THE SAFETY EDGE. IF NECESSARY, EXCAVATE THE GRADED AREA TO THE DEPTH NECESSARY TO CONSTRUCT THE SAFETY EDGE. COMPACT THE GRADED SHOULDER ACCORDING TO 617.05, OR AS DIRECTED BY THE ENGINEER.

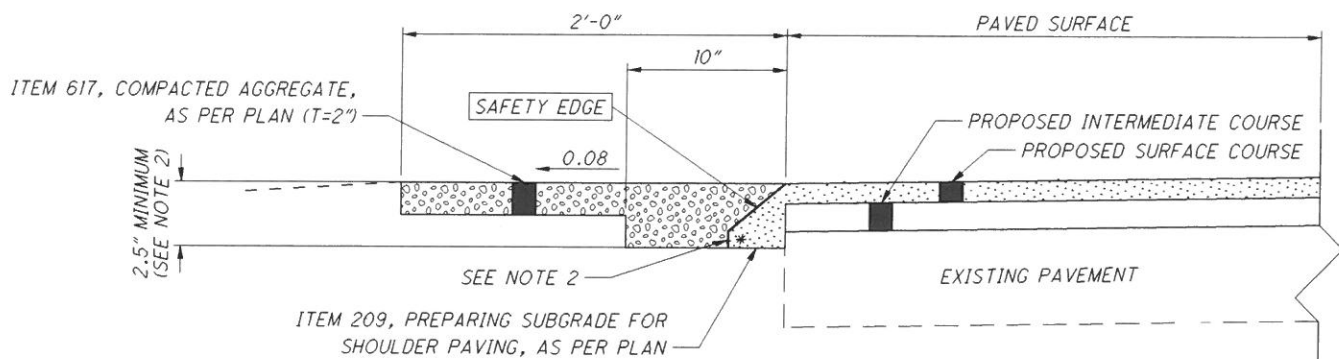
NOTES:

1.) SAFETY EDGES ARE REQUIRED AT THE OUTSIDE EDGES OF THE PAVED ROADWAY (EDGE OF TRAVEL LANE OR EDGE OF PAVED SHOULDER).

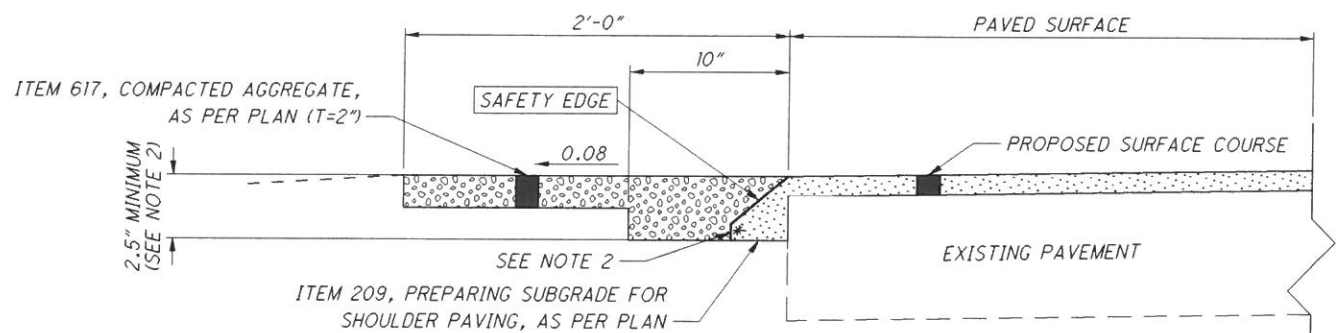
2.) CONSTRUCT THE SAFETY EDGE THE FULL ASPHALT CONCRETE OVERLAY THICKNESS OR 2.5" WHICHEVER IS GREATER, NOT TO EXCEED THE MAXIMUM SAFETY EDGE THICKNESS OF 6". CONSTRUCT A NEAR-VERTICAL FACE BELOW THE SAFETY EDGE FOR THICKNESS GREATER THAN 6".

3.) BLADE AND SHAPE EXISTING SHOULDER MATERIAL TO FORM A UNIFORM SURFACE UNDER THE SAFETY EDGE PRIOR TO PLACEMENT OF THE ASPHALT CONCRETE OVERLAY.

* 40° MAX



SAFETY EDGE DETAIL FOR 2 COURSE OVERLAY



SAFETY EDGE DETAIL FOR 1 COURSE OVERLAY

ESTIMATED QUANTITIES

ROUTE	SAFETY EDGE THICKNESS (IN.)	S.L.M TO S.L.M.				SIDE	209	448
							PREPARING SUBGRADE FOR SHOULDER PAVING, AS PER PLAN	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG70-22M, AS PER PLAN
							STATION	CU YD
241	2.5	3.64	TO	4.16	L/R	54.9	5.29	
241	2.5	4.16	TO	4.22	L/R	6.3	0.61	
241	2.5	4.27	TO	6.01	L/R	183.7	17.69	
241	2.5	6.01	TO	6.99	L/R	103.5	9.97	
241	2.5	7.59	TO	7.66	L	3.7	0.36	
TOTALS CARRIED TO GENERAL SUMMARY							353	34

UTILITIES

THE CONTRACTOR SHALL USE THE FOLLOWING PROCEDURE AT EACH LOCATION WHERE WORK IS PERFORMED, IN ACCORDANCE WITH SECTIONS 105.07 AND 107.16 IN THE CONSTRUCTION AND MATERIALS SPECIFICATIONS.

THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER, THE OHIO UTILITIES PROTECTION SERVICE (OUPS), THE OHIO & GAS PROCEDURES UNDERGROUND PROTECTION SERVICE (OGPUPS), THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 4 HEAD-QUARTERS AND ALL NON REGISTERED UTILITY OWNERS AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION IN ALL AREAS.

OUPS 1-800-362-2764 (CONTACT LIMITED BASIS PARTICIPANTS DIRECTLY)

OGPUPS 1-800-925-0988

ODOT 330-786-3145 KEN GREENE

THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE NOT SHOWN ON THE PLANS, BUT CAN BE OBTAINED FROM THE OWNERS OF THE UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES.

Aqua Ohio
ATTN: Don Snyder
870 3rd Street, NW.
Massillon, OH 44647
330-832-5764 EXT: 205
330-832-5770 Fax

City of Massillon Sanitary
ATTN: Tony Ulrich
100 Big Indian Dr. SW
Massillon, OH 44646
330-833-3304
330-830-3646 Fax

Dominion East Ohio Gas
ATTN: Mary Long
320 Springside Drive
Suite 320
Akron, OH 44333
330-664-2409
888-504-0126 Fax

Ohio Edison
ATTN: Ken Downs
1910 W. Market Street Building 1
Akron, OH 44313
330-384-4839
330-384-4723 Fax

AT&T
The Ohio Bell Telephone Company
ATTN: Cindy Zuchegno
50 W. Bowery St.
4th Floor
Akron, OH 44308
330-384-3561

Columbia Gas of Ohio
ATTN: Dan Suren
7080 Frye Road
Middleburg Heights, OH 44130
440-891-2428
440-891-2797 Fax

Massillon Cable
ATTN: Neal Travis
P.O. Box 814
Massillon, OH 44648
330-833-4134
330-833-7522 Fax

Time Warner Cable
ATTN: Ron Ferdinand
5520 Whipple Ave. NW
North Canton, OH 44720
330-494-9200 ext.3305553003

PROFILE AND ALIGNMENT

PLACE THE PROPOSED PAVEMENT TO FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT. PLACE THE PROPOSED ASPHALT CONCRETE OVERLAY AS SHOWN ON THE TYPICAL SECTIONS.

WORK LIMITS

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. PROVIDE THE INSTALLATION AND OPERATION OF ALL WORK ZONE TRAFFIC CONTROL AND WORK ZONE TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

PAVEMENT MARKING DETAILS

THE PAVEMENT MARKING DETAIL SHEETS WILL BE SUPPLIED TO THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING.

PAVEMENT MARKING LANE WIDTHS

THE NORMAL LANE WIDTH FOR THE PAVEMENT MARKINGS ON THIS PROJECT SHALL BE AS FOLLOWS [AT LEAST 3 DAYS PRIOR TO PERFORMING THE WORK CONTACT THE TRAFFIC OFFICE AT 330-786-3147 TO CONFIRM THE WIDTHS]:

ROUTE	S.L.M. TO S.L.M.	LANE WIDTH
S.R. 241	3.64 7.86	12'

INTERSECTIONS

INTERSECTIONS WILL BE RESURFACED 2 FT. BEYOND THE EDGE LINE, UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR INDICATED IN THE PLAN. INTERSECTIONS SHALL BE PAVED AFTER COMPLETION OF THE SURFACE COURSE OR WITH THE MAINLINE PAVEMENT IF THIS CAN BE ACCOMPLISHED WITHOUT CHANGING THE VELOCITY AND DIRECTION OF THE PAVER. USE THE SAME ASPHALT CONCRETE AS THE MAINLINE PAVEMENT. PROVIDE A SMOOTH TRANSITION TO THE EXISTING PAVEMENT. ANY GRADING OR PRIME NECESSARY TO ACCOMPLISH THIS WORK SHALL BE INCLUDED IN THE COST OF THE PERTINENT BID ITEM.

DRIVEWAYS

THE CONTRACTOR WILL NOT BE PERMITTED TO LEAVE A DIFFERENCE IN ELEVATION BETWEEN THE MAINLINE ASPHALT SURFACE COURSE AND THE EXISTING DRIVEWAYS. IF APPROVED BY THE ENGINEER, AN ASPHALT WEDGE WITH A WIDTH OF APPROX 2' MAY BE PLACED EITHER ON THE ROADWAY SHOULDER OR DRIVEWAY DEPENDENT UPON WHICH SIDE IS HIGH. A QUANTITY OF MAINLINE SURFACE COURSE ASPHALT HAS BEEN PROVIDED IN THE CALCULATIONS AND GENERAL SUMMARY TO PERFORM THIS ITEM OF WORK.

FIELD DRIVEWAYS

THIS ITEM WILL CONSIST OF PLACING ITEM 411, STABILIZED CRUSHED AGGREGATE. THE CONTRACTOR WILL NOT BE PERMITTED TO LEAVE A DIFFERENCE IN ELEVATION BETWEEN THE MAINLINE ASPHALT SURFACE COURSE AND THE EXISTING FIELD DRIVEWAYS. FIELD DRIVES WILL BE PLACED AFTER THE COMPLETION OF THE SURFACE COURSE AND SHALL HAVE AN AVERAGE 2 INCH THICKNESS. ALL GRADING TOOLS, EQUIPMENT, MATERIALS, AND INCIDENTALS REQUIRED TO LAYOUT AND CONSTRUCT THE FIELD DRIVES WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 411, AGGREGATE BASE. AN ESTIMATED QUANTITY OF 3 CU. YD. HAS BEEN CARRIED TO THE GENERAL SUMMARY.

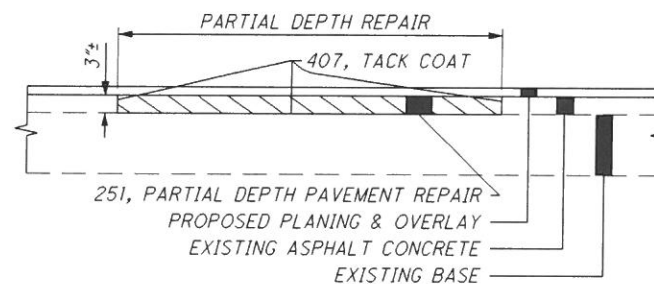
ITEM 448 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1 PG70-22M, AS PER PLAN

703.05 DO NOT USE COARSE AGGREGATE FROM A SOURCE DESIGNATED "SR" OR "SRH" ACCORDING TO THE OFFICE OF MATERIALS MANAGEMENT (OMM) IN ANY JOB MIX FORMULA (JMF) FOR THIS ITEM.

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR

A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE AS DIRECTED BY THE ENGINEER. THE ITEM SHALL CONSIST OF REPAIRING EXISTING LOCATIONS EXHIBITING SURFACE DETERIORATION AND PLACING ITEM 448 ASPHALT CONCRETE, TYPE 2. THE ASPHALT CONCRETE SHALL BE COMPACTED WITH A TYPE 1 PNEUMATIC TIRE ROLLER AND A STEEL WHEEL ROLLER AS PER 401.13. IT IS NOT THE INTENT TO REPAIR EVERY DETERIORATED AREA WITHIN THE PROJECT. THE ENGINEER SHALL DETERMINE WHICH AREAS ARE TO BE REPAIRED. UNLESS OTHERWISE DIRECTED BY THE ENGINEER, THIS ITEM SHALL BE PERFORMED AFTER THE COMPLETION OF MAINLINE PAVEMENT PLANING. ALSO, THIS ITEM SHALL COMMENCE WITHIN 7 DAYS OF THE COMPLETION OF MAINLINE PAVEMENT PLANING. PAYMENT SHALL BE BASED ON THE ACTUAL NUMBER OF SQUARE YARDS OF PAVEMENT REPAIR. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY:

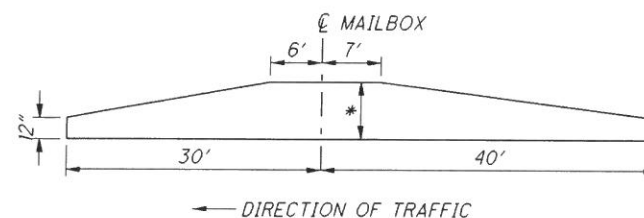
251, PARTIAL DEPTH PAVEMENT REPAIR, 100 SQ. YD.



PAVED MAILBOX APPROACHES

ALL EXISTING MAIL BOX APPROACHES WILL BE PAVED WITH ASPHALT CONCRETE AS PER TYPICAL SHOWN OR AS NEAR AS PRACTICAL. AGGREGATE APPROACHES SHALL HAVE A 2 IN. MIN. THICKNESS; IMPROVED APPROACHES SHALL HAVE A 2 IN. MIN. THICKNESS. THE CONTRACTOR SHALL PAVE THE MAILBOX APPROACHES WITH PAVING OF THE MAINLINE AND SHOULDERS. PAVEMENT SHALL BE AS FOLLOWS:

1. PAVE THE MAILBOX APPROACHES WITH THE MAINLINE AND SHOULDERS. ALL GRADING, TACK, TOOLS, EQUIPMENT, MATERIAL AND INCIDENTALS REQUIRED TO LAYOUT AND CONSTRUCT THE MAILBOX APPROACHES SHALL BE INCLUDED IN THE UNIT BID FOR ITEM 448 ASPHALT CONCRETE SURFACE TYPE 1 PG70-22M, AS PER PLAN.



ITEM 606 - ANCHOR ASSEMBLY, MGS TYPE E

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ANY OF THE GUARDRAIL END TERMINALS FOR TYPE MGS GUARDRAIL AS LISTED ON ROADWAY ENGINEERING'S WEB PAGE UNDER ROADSIDE SAFETY DEVICES FOR APPROVED GUARDRAIL END TREATMENTS. INSTALLATION SHALL BE AT THE LOCATIONS SPECIFIED IN THE PLANS, IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

THE FACE OF THE TYPE E IMPACT HEAD SHALL BE COVERED WITH A SHEET OF TYPE G REFLECTIVE SHEETING, PER CMS 730.19.

REFER TO THE MANUFACTURER'S INSTRUCTIONS REGARDING THE INSTALLATION OF, AND THE GRADING AROUND THE FOUNDATION TUBES AND GROUND STRUT. THE TOP OF ANY FOUNDATION TUBE SHOULD BE LESS THAN 4 INCHES ABOVE THE GROUND. THE PLACEMENT OF THE FOUNDATION TUBES SHOULD BE AN APPROPRIATE DEPTH BELOW THE LEVEL LINE IN ORDER TO MAINTAIN THE FINISHED GUARDRAIL HEIGHT OF 31 INCHES FROM THE EDGE OF THE SHOULDER.

ON-SITE GRADING IS REQUIRED IF THE TOP OF THE FOUNDATION TUBES OR TOP OF THE GROUND STRUT DOES PROJECT MORE THAN 4 INCHES ABOVE THE GROUND LINE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT PRICE BID FOR ITEM 606, ANCHOR ASSEMBLY, TYPE E, EACH, AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY TO CONSTRUCT A COMPLETE AND FUNCTIONAL ANCHOR ASSEMBLY SYSTEM, INCLUDING ALL RELATED TRANSITIONS, REFLECTIVE SHEETING, HARDWARE, GRADING, EMBANKMENT AND EXCAVATION NOT SEPARATELY SPECIFIED, AS REQUIRED BY THE MANUFACTURER.

PAVING AT RAILROAD CROSSING

WORK THE CROWN OUT OF THE PROPOSED PAVEMENT ON EACH SIDE OF THE RAILROAD CROSSING, BEGINNING 50 FEET FROM THE NEAREST RAIL, BY RAISING THE EDGES OF THE NEW PAVEMENT TO MEET THE PLATFORM ELEVATION.

ITEM 623 - MONUMENT ASSEMBLY, AS PER PLAN

ADJUSTABLE MONUMENT ASSEMBLIES AS SHOWN ON STANDARD CONSTRUCTION DRAWING RM-1.1 WILL BE PLACED BY THE CONTRACTOR AT THE TIME OF CONSTRUCTION. THE CONTRACTOR WILL BE PROVIDED A LOCATION LIST OF EXISTING MONUMENTATION WHICH IS TO BE REPLACED WITH NEW ADJUSTABLE MONUMENT BOX ASSEMBLIES AT THE PRE-CONSTRUCTION MEETING. THIS LIST MAY INCLUDE BOTH EXPOSED AND BURIED MONUMENTATION AND MAY ALSO INCLUDE SOME TIES TO AID IN RECOVERY. PAYMENT FOR THE REMOVAL OF ANY EXISTING MONUMENT ASSEMBLIES SHALL ALSO BE INCLUDED IN THIS ITEM. QUANTITY THAT WILL BE CARRIED TO THE GENERAL SUMMARY: 623, MONUMENT ASSEMBLY, AS PER PLAN, 5 EACH

CALCULATED
JED
CHECKED

GENERAL NOTES

STA-241-3.64

5
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ITEM SPECIAL - MAILBOX SUPPORT

THIS WORK SHALL CONSIST OF FURNISHING AND ERECTING MAILBOX SUPPORTS AND ANY ASSOCIATED MOUNTING HARDWARE IN ACCORDANCE WITH PLAN DETAILS, AND ATTACHING AN OWNER-SUPPLIED MAILBOX AT LOCATIONS SPECIFIED IN THE PLAN, OR OTHERWISE ESTABLISHED BY THE ENGINEER.

WOOD POSTS SHALL BE NOMINAL 4 INCHES BY 4 INCHES SQUARE OR 4.5 INCHES DIAMETER ROUND, AND CONFORM TO 710.14.

STEEL POSTS SHALL BE NOMINAL PIPE SIZE 2 INCHES I.D., AND CONFORM TO AASHTO M 181.

ALL HARDWARE INCLUDING BUT NOT LIMITED TO PLATES, SCREWS, BOLTS, AND ETC. SHALL BE COMMERCIAL-GRADE GALVANIZED STEEL.

POSTS SHALL BE SET PER THE FIRST PARAGRAPH OF 606.03, AND SHALL IN NO INSTANCE BE ENCASED IN CONCRETE.

SUPPORT HARDWARE SHALL ACCOMMODATE EITHER A SINGLE OR A DOUBLE MAILBOX INSTALLATION, AND NO MORE THAN TWO BOXES MAY BE MOUNTED ON A SINGLE POST.

THE MAILBOX SHALL BE SECURELY AND NEATLY ATTACHED BY THE CONTRACTOR TO THE NEW SUPPORT. THE CONTRACTOR SHALL FURNISH ALL NECESSARY ATTACHMENT HARDWARE (NUTS, BOLTS, PLATES, SPACERS, AND WASHERS) AS NECESSARY TO ACCOMMODATE THE COMPLETE INSTALLATION.

IN THE ABSENCE OF A NEW BOX SUPPLIED BY THE OWNER, THE CONTRACTOR SHALL SALVAGE THE EXISTING BOX AND PLACE IT ON THE NEW SUPPORT. DUE CARE SHALL BE EXERCISED IN SUCH AN OPERATION, AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING ANY BOX DAMAGED BY IMPROPER HANDLING ON HIS PART, AS JUDGED AND DIRECTED BY THE ENGINEER.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE LOCAL POST MASTER REGARDING THE TIMING OF THE MOVEMENT OF ANY MAILBOX TO A NEW LOCATION.

PAYMENT UNDER THIS ITEM SHALL BE LIMITED TO FINAL PERMANENT INSTALLATIONS. TEMPORARY INSTALLATIONS SHALL BE IN ACCORDANCE WITH 107.10. HOWEVER, THE SAME MATERIAL AND SIZE LIMITATIONS AS FOR PERMANENT INSTALLATIONS SHALL APPLY.

MAILBOX SUPPORTS, COMPLETE IN PLACE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH, FOR ITEM SPECIAL MAILBOX SUPPORT SYSTEM, (SINGLE) (DOUBLE).

ITEM SPECIAL - MAILBOX SUPPORT SYSTEM, SINGLE 1 EACH

ITEM 617 - COMPACTED AGGREGATE, AS PER PLAN

IN LOW SHOULDER AREAS EXCEEDING 1", AND ADJACENT TO THE SAFETY EDGE, OR AS DIRECTED BY THE ENGINEER, RECYCLED ASPHALT PAVEMENT (RAP) SHALL BE USED IN AREAS ADJACENT TO THE PAVED BERM. THE RAP SHALL HAVE A MINIMUM PG CONTENT OF 4.5% AND MEET THE FOLLOWING GRADATION. ONCE THE STOCKPILE MEETS THE GRADATION, THE PG CONTENT OF THE RAP SHALL BE DETERMINED PER 441.03. THE RAP ANALYSIS MUST BE SUBMITTED TO THE ENGINEER FOR APPROVAL 2 WEEKS PRIOR TO USE. METHOD OF MEASUREMENT SHALL BE AS PER 617.06. PLACEMENT AND COMPACTION SHALL MEET THE REQUIREMENTS OF ITEM 617. ALL MATERIALS, LABOR, EQUIPMENT, TOOLS AND INCIDENTALS NECESSARY TO COMPLETE THE WORK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 617 COMPACTED AGGREGATE, AS PER PLAN.

MODIFIED GRADATION SHALL APPLY:

SIEVE	TOTAL PERCENT PASSING
1-1/2"	100
3/4"	50-100
NO. 4	35-70
NO. 30	9-33
NO. 200	0-13

TYPE A ANCHOR ASSEMBLY REPLACEMENT

THERE ARE 3 LOCATIONS BETWEEN SLM 3.64 AND SLM 7.86 WHERE TYPE A ANCHOR ASSEMBLIES CURRENTLY EXIST ADJACENT TO SR 241. THE FOLLOWING ITEMS WILL BE USED TO REMOVE THE EXISTING ANCHOR ASSEMBLY, A PORTION OF THE EXISTING GUARDRAIL AND INSTALL A NEW ANCHOR ASSEMBLY AND GUARDRAIL FOR EACH LOCATION:

GUARDRAIL REMOVED, 75 FT
BORROW, 2.5 CU YD
GUARDRAIL, TYPE MGS WITH LONG POSTS, 25 FT
ANCHOR ASSEMBLY, TYPE E, 1 EACH
BARRIER REFLECTOR, TYPE A, 2 EACH
SEEDING AND MULCHING, 33 SQ YD

ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE UNIT PRICE FOR THE PERTINENT BID ITEM. THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

202, GUARDRAIL REMOVED, 225 FEET
203, BORROW, 7.5 CU YD
606, GUARDRAIL, TYPE MGS WITH LONG POSTS, 75 FEET
606, ANCHOR ASSEMBLY, TYPE E, 3 EACH
626, BARRIER REFLECTOR, TYPE A, 6 EACH
659, SEEDING AND MULCHING, 99 SQ YD
659, COMMERCIAL FERTILIZER, 0.03 TON
659, LIME, 0.03 ACRES
659, WATER, 1 M. GAL.

CONNECTION BETWEEN EXISTING AND PROPOSED GUARDRAIL

WHEN IT IS NECESSARY TO SPLICE PROPOSED GUARDRAIL TO EXISTING GUARDRAIL, ONLY THE EXISTING GUARDRAIL SHALL BE CUT, DRILLED, OR PUNCHED. THE CONNECTION SHALL BE MADE USING A "W-BEAM RAIL SPLICE" AS SHOWN IN AASHTO M 180. PAYMENT SHALL BE INCLUDED IN THE CONTRACT PRICE FOR THE RESPECTIVE GUARDRAIL ITEMS.

LINEAR GRADING

SHOULDER WIDTH BEYOND THE LIMITS OF THE COMPACTED AGGREGATE WILL BE GRADED TO PROVIDE POSITIVE DRAINAGE AND WILL BE PERFORMED ONLY IN THE AREAS NECESSARY. THIS WORK WILL NOT BE PERFORMED ON THE ENTIRE PROJECT. THE AREAS FOR THE WORK WILL BE MARKED BY THE PROJECT ENGINEER. THESE ITEMS OF WORK WILL BE PERFORMED AFTER THE PLACEMENT OF ITEM 617 COMPACTED AGGREGATE. UNDER NO CIRCUMSTANCES WILL THIS WORK BE PERFORMED CONCURRENTLY WITH ANY OTHER OPERATION.

GRADING WILL BE ACCOMPLISHED BY THE REMOVAL OF, OR ADDITION OF MATERIAL TO PROVIDE A 0.08 POSITIVE SLOPE. EXCESS MATERIAL WILL BE WINDROWED ON THE SHOULDER. THE GRADED AREAS WILL BE COMPACTED TO A SUFFICIENT DENSITY TO PREVENT EROSION UNTIL SEEDING AND MULCHING IS PERFORMED. ALL EXCESS MATERIAL WILL BE REMOVED FROM THE BERMS AND WILL BE DISPOSED OF OFF THE PROJECT BY THE CONTRACTOR.

SEEDING AND MUCHING, FERTILIZER AND LIME WILL BE PERFORMED WITHIN A PERIOD NOT TO EXCEED 10 DAYS AFTER THE LINEAR GRADING.

THE QUANTITY OF ITEM 209 IS NOT PERMITTED TO BE INCREASED. REDUCTIONS IN QUANTITIES ARE PERMITTED AS DETERMINED BY THE PROJECT ENGINEER.

ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK WILL BE INCLUDED IN THE UNIT PRICE FOR THE PERTINENT BID ITEM. THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

209, LINEAR GRADING, STA.
659, SEEDING AND MULCHING, 16,779 SQ YD
659, COMMERCIAL FERTILIZER, 2.26 TON
659, LIME, 3.47 ACRES
659, WATER, 90.6 M. GAL.

CALCULATED
JED
CHECKED

GENERAL NOTES

STA - 241 - 3.64

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MAINTENANCE OF TRAFFIC

THIS ITEM SHALL CONSIST OF MAINTENANCE OF TRAFFIC ON EXISTING ROADWAYS AND RAMPS IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, CURRENT EDITION, LATEST REVISION, THE SPECIFICATIONS AND THE FOLLOWING:

- ON 4-LANE SECTIONS, A MINIMUM OF ONE TEN FOOT LANE IN EACH DIRECTION SHALL BE MAINTAINED ON THE EXISTING PAVEMENT OR COMPLETED PAVEMENT DURING CONSTRUCTION OF THE WORK.
- ON 2-LANE SECTIONS, A MINIMUM OF ONE TEN FOOT BI-DIRECTIONAL LANE SHALL BE MAINTAINED ON THE EXISTING PAVEMENT OR COMPLETED PAVEMENT DURING CONSTRUCTION OF THE WORK.
- THE CONTRACTOR SHALL INFORM THE DISTRICT OFFICE (330) 786-2208, EIGHTEEN (18) DAYS PRIOR TO THE BEGINNING OF WORK.
- LANE RESTRICTIONS OR LANE REDUCTIONS SHALL NOT BE PERMITTED AFTER NORMAL WORKING HOURS. NORMAL WORKING HOURS SHALL BE THOSE HOURS DURING WHICH THE CONTRACTOR HAS A FULL COMPLEMENT OF EMPLOYEES AND EQUIPMENT ACTIVELY REMOVING AND/OR PLACING PAVEMENT MATERIALS.
- TRUCK MOUNTED ATTENUATORS [TMA'S] SHALL BE USED AS SHOWN IN THE STANDARD CONSTRUCTION DRAWINGS.
- UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR BE PERMITTED TO HAVE SUCCESSIVE WORK ZONES UNLESS THE DISTANCE BETWEEN THE DRUMS, BARRICADES OR CONES EXCEEDS TWO (2) MILES RURAL OR ONE (1) MILE URBAN.
- ONLY DURING OFF-PEAK PERIODS (ie ANY PERIOD OTHER THAN 6-8AM AND 3-6PM) SHALL THE CONTRACTOR INSTALL AND SUBSEQUENTLY RESET ALL TRAFFIC CONTROL NECESSARY FOR THE WORK ZONE FOR EACH CONSTRUCTION PHASE.
- IN ADDITION TO THE REQUIREMENTS OF 614.11 WORK ZONE PAVEMENT MARKINGS, AT THE END OF EACH DAY OF WORK, THE CONTRACTOR SHALL REPLACE (WITH WORK ZONE MARKINGS) ALL LANE, CENTER, STOP OR CHANNELIZING LINES THAT WERE REMOVED OR COVERED DURING THE PAVEMENT REMOVAL OR PLACEMENT OPERATIONS. QUANTITIES FOR SUCH PLACEMENT ARE CARRIED AS PART OF THE ITEMS LISTED UNDER 614 WORK ZONE PAVEMENT MARKINGS.
- A QUANTITY OF 20 CU. YDS. OF ITEM 614 ASPHALT CONCRETE FOR MAINTAINING TRAFFIC SHALL BE PROVIDED FOR USE IN MAINTAINING PAVEMENT, SHOULDERS AND OTHER LOCATIONS AS DIRECTED BY THE ENGINEER.
- PRIOR TO OPENING TO TRAFFIC EACH LANE SHALL BE IN A SAFE, PASSABLE CONDITION. ALL TRANSVERSE JOINTS SHALL EXTEND ACROSS THE FULL LANE AND SHOULDER WIDTH AND EACH LANE SHALL BE FREE FROM UNEVEN LONGITUDINAL JOINTS. THE CONTRACTOR SHALL PROVIDE ASPHALT WEDGES FOR TRANSVERSE JOINTS WHEREVER THERE ARE PAVEMENT ELEVATION DIFFERENCES.
- A QUANTITY OF ITEM 614 WORK ZONE MARKING SIGN HAS BEEN INCLUDED IN THE PLAN. THIS QUANTITY SHALL INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING SIGNS: W8-1 [BUMP], W6-3 [TWO-WAY TRAFFIC], W8-H13 [NO EDGE LINES], R4-1 [DO NOT PASS], R4-2 [PASS WITH CARE], W8-11 [UNEVEN LANES], W8-15 [GROOVED PAVEMENT]. THESE QUANTITIES SHALL BE AS PER 614.04.

THE FOLLOWING QUANTITIES SHALL BE USED FOR THE MAINTENANCE OF TRAFFIC ON THIS PROJECT:

PHASE I - PLANED SURFACE

- 614, WORK ZONE CENTER LINE, CLASS II, 4.22 MILE
- 614, WORK ZONE LANE LINE, CLASS II, 2.04 MILE
- 614, WORK ZONE STOP LINE, CLASS I, 128 FT
- 614, WORK ZONE CHANNELIZING LINE, CLASS I, 728 FT
- 614, WORK ZONE MARKING SIGN, 36 EACH

PHASE II - SURFACE COURSE

- 614, WORK ZONE CENTERLINE, CLASS III, 642 PAINT 4.22 MILE
- 614, WORK ZONE LANE LINE, CLASS III, 642 PAINT 2.04 MILE
- 614, WORK ZONE STOP LINE, CLASS III, 642 PAINT 128 FT
- 614, WORK ZONE CHANNELIZING LINE, CLASS III, 642 PAINT 728 FT

TO BE USED AS DIRECTED BY THE ENGINEER

- 614, WORK ZONE EDGE LINE, CLASS III, 8.44 MILE

ITEM 614, MAINTAINING TRAFFIC (LANES OPEN DURING HOLIDAYS OR SPECIAL EVENTS)

NO WORK SHALL BE PERFORMED AND ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

CHRISTMAS	FOURTH OF JULY
NEW YEARS	LABOR DAY
MEMORIAL DAY	THANKSGIVING

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY OR EVENT FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY OR EVENT	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY
THURSDAY (THANKSGIVING ONLY)	12:00N WEDNESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY-WIDE, OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREA-WIDE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$3000 FOR EACH HOUR THE ABOVE DESCRIBED LANE CLOSURE RESTRICTIONS ARE VIOLATED.

TRAFFIC CONTROL INSPECTOR

THE CONTRACTOR SHALL DESIGNATE AN INDIVIDUAL OTHER THAN THE SUPERINTENDENT AND SUBJECT TO THE APPROVAL OF THE ENGINEER, TO CONTINUOUSLY INSPECT ALL TRAFFIC CONTROL DEVICES WHENEVER CONSTRUCTION WORK IS BEING PERFORMED WITHIN THE WORK LIMITS OF THE PROJECT. THE DESIGNATED INDIVIDUAL SHALL ALSO INSPECT ALL TRAFFIC DEVICES AT THE BEGINNING AND AT THE END OF EACH WORK DAY. THE DESIGNATED INDIVIDUAL OR A QUALIFIED REPRESENTATIVE SHALL ALSO BE AVAILABLE ON AN AROUND THE CLOCK BASIS TO REPAIR AND/OR REPLACE DAMAGED OR MISSING TRAFFIC CONTROL DEVICES. THESE INDIVIDUALS SHALL BE EQUIPPED WITH CELLULAR PHONES AND THEIR NAMES AND PHONE NUMBERS SHALL BE GIVEN TO THE PROJECT ENGINEER AT THE PRE-CONSTRUCTION MEETING. THE DESIGNATED INDIVIDUAL SHALL HAVE NO OTHER CONSTRUCTION RELATED DUTIES. PAYMENT FOR THE SERVICES OF THE TRAFFIC CONTROL INSPECTOR SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

ADVANCED NOTICE TO PAVE

THE CONTRACTOR SHALL SUBMIT FOR APPROVAL TO THE DISTRICT CONSTRUCTION ENGINEER A DETAILED SCHEDULE 15 DAYS PRIOR TO THE PLACEMENT OF THE OVERLAY COURSES, ON HOW THEY PROPOSE TO PROSECUTE THE PAVING OPERATIONS. THE DETAILS SHALL SHOW THE ORDER OF PERFORMANCE OF EACH STAGE (START TO FINISH) OF THE WORK INCLUDING THE MAINTENANCE OF TRAFFIC THAT WILL BE USED.

WINTER TRAFFIC LIMITATIONS

ALL EXISTING LANES SHALL BE OPEN TO TRAFFIC BETWEEN NOVEMBER 15 AND APRIL 1. NOVEMBER 14 SHALL BE CONSIDERED TO CONSTITUTE AN INTERIM COMPLETION DATE AND DISINCENTIVES OF \$1,000.00 SHALL BE ASSESSED FOR EACH CALENDAR DAY THAT THE ROADWAY REMAINS CLOSED TO TRAFFIC BEYOND THE SPECIFIED LIMIT. THE CONTRACTOR MAY CLOSE LANES PRIOR TO APRIL 1 WITH WRITTEN APPROVAL FROM THE DISTRICT CONSTRUCTION ENGINEER.

LANE CLOSURES

DURATION OF LANE CLOSURES AND RESTRICTIONS SHALL BE AS PER THE PERMITTED LANE CLOSURE CHART. THE PERMITTED LANE CLOSURE CHART USED FOR THIS PROJECT SHALL BE THE MOST CURRENT CHART AVAILABLE ON THE DATE THIS PROJECT SELLS.

THE CHART CAN BE FOUND AT:
<http://plcm.dot.state.oh.us>

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THE REQUIREMENTS IN THE CHART, THE CONTRACTOR SHALL BE ASSESSED DISINCENTIVES IN THE AMOUNT OF \$2500 PER HOUR OR PORTION THEREOF THAT THE LANE REDUCTION REMAINS BEYOND THE SPECIFIED LIMIT.

ITEM 632 - DETECTOR LOOP, AS PER PLAN

THE CONTRACTOR SHALL CONTACT THE DISTRICT OFFICE (330-786-3146) THREE WORKING DAYS PRIOR TO ANY PLANING OR TRENCHING AT THE INTERSECTION OF SR 241 AND 17TH STREET ANY LOOP DETECTORS DISTURBED BY PAVEMENT PLANING OR TRENCHING SHALL BE ABANDONED IN PLACE.

632 DETECTOR LOOP, AS PER PLAN, 2 EACH

S.R. 241 AND 17TH STREET
(2 EACH, POWERHEAD)

CONGRESSMAN RALPH REGULA TOWPATH TRAIL AT BRIDGE (STA-241-0766)

BRIDGE STRUCTURE NO. STA STA-241-0766 SPANS THE CONGRESSMAN RALPH REGULA TOWPATH TRAIL LOCATED ON THE US ARMY CORPS OF ENGINEERS TUSCARAWAS RIVER FLOOD CONTROL LEVEE AT THE FORWARD STA STA-241-0766 BRIDGE ABUTMENT. THE CONTRACTOR SHALL MAINTAIN FULL ACCESS TO THE CONGRESSMAN RALPH REGULA TOWPATH TRAIL AT BRIDGE STRUCTURE NO. STA STA-241-0766 AT ALL TIMES DURING THE DURATION OF CONSTRUCTION ACTIVITIES. THE CONTRACTOR WILL BE REQUIRED TO CLOSELY COORDINATE THE CONSTRUCTION SCHEDULE WITH THE CITY OF MASSILLON PARKS AND RECREATION DEPARTMENT AND THE STARK COUNTY PARK DISTRICT. TWO WEEKS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AT BRIDGE STRUCTURE NO. STA STA-241-0766, THE CONTRACTOR WILL NOTIFY THE PARKS DEPARTMENT AND THE STARK COUNTY PARK DISTRICT, IN WRITING, OF THE CONSTRUCTION DATES FOR WORK AT THE STA STA-241-0766 BRIDGE.

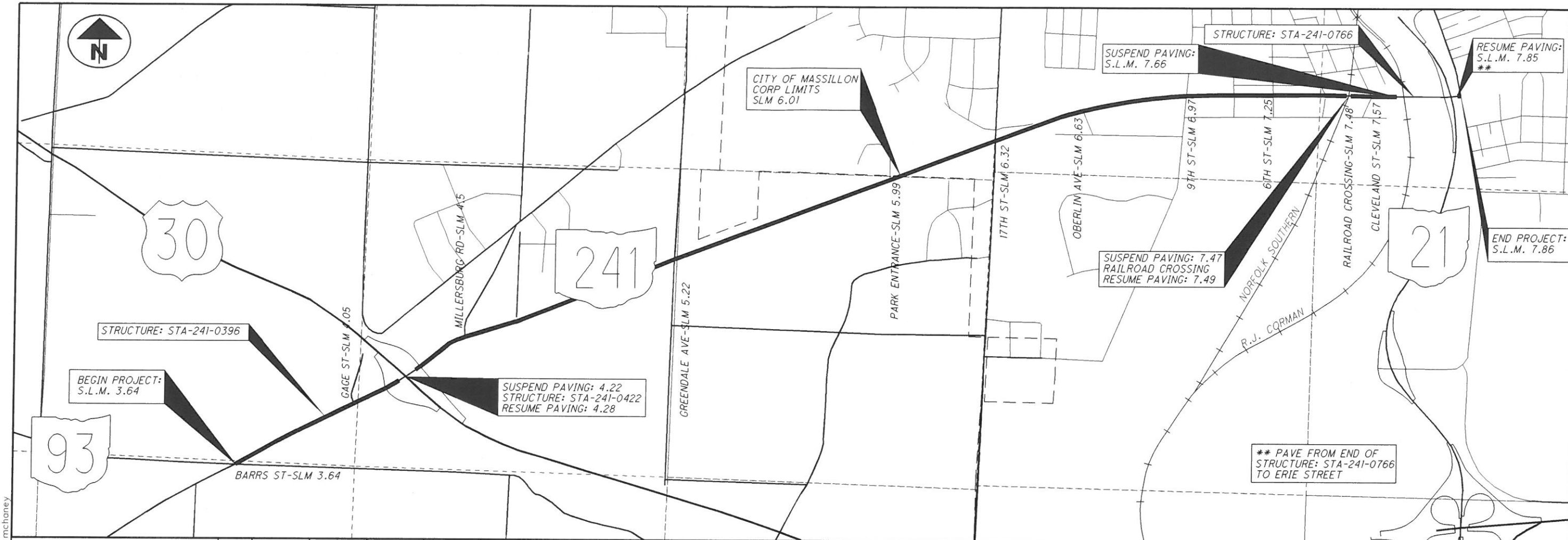
City of Massillon Parks & Recreation Department
505 Erie Street North
Massillon, Ohio 44646
Phone: (330) 832-1621
Fax: (330) 832-0456

Stark County Park District
5300 Tyner Street NW
Canton, OH 44708
Phone: (330) 477-3552
Fax: (330) 477-1211

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GENERAL SUMMARY

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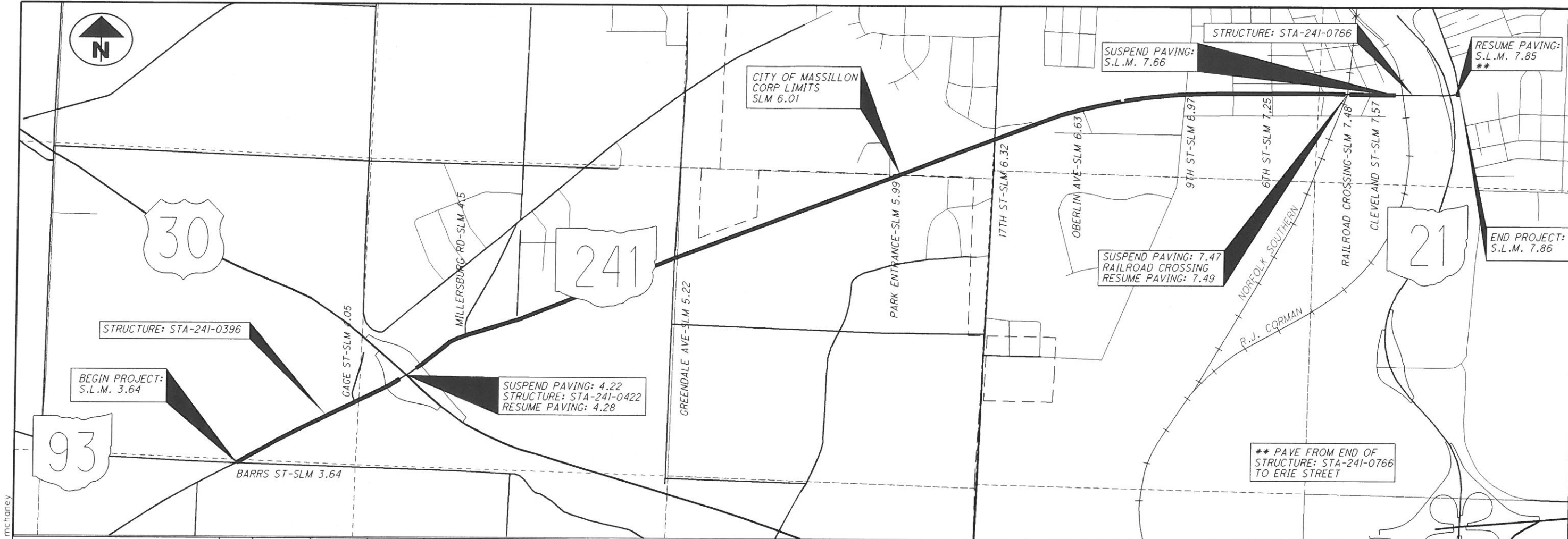


SLM RANGE			TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	202	254	407	448	617													
									WEARING COURSE REMOVED		PAVEMENT PLANING, ASPHALT CONCRETE (T=1.5")		TACK COAT @ 0.15 GAL/SY		ASPHALT CONCRETE SURFACE COURSE, TYPE 1, PG70-22M, AS PER PLAN (T=1.5")		COMPACTED AGGREGATE, AS PER PLAN (T=2")									
					FT	FT	SQ YD	SQ YD	SQ YD		SQ YD		GALLON		CU YD		CU YD									
3.64	TO	3.87	1	L/R	1214.40	26.00	3508.27				3508.27		526.24		146.18		29.99									
3.87	TO	4.08	1	L/R	1108.80	44.00	5420.80				5420.80		813.12		225.87		27.38									
4.08	TO	4.16	1	L/R	422.40	59.00	2769.07				2769.07		415.36		115.38		10.43									
4.16	TO	4.22	1	L/R	316.80	62.50	2200.00				2200.00		330.00		91.67		7.82									
4.28	TO	4.57	1	L/R	1531.20	63.00	10718.40				10718.40		1607.76		446.60		37.81									
4.57	TO	4.68	1	L/R	580.80	53.00	3420.27				3420.27		513.04		142.51		14.34									
4.68	TO	6.01	1	L/R	7022.40	43.00	33551.47				33551.47		5032.72		1397.98		173.39									
6.01	TO	6.21	1	L/R	1056.00	43.00	5045.33				5045.33		756.80		210.22		26.07									
6.21	TO	6.43	1	L/R	1161.60	50.00	6453.33				6453.33		968.00		268.89		28.68									
6.43	TO	6.89	1	L/R	2428.80	43.00	11604.27				11604.27		1740.64		483.51		59.97									
6.89	TO	6.94	1	L/R	264.00	50.00	1466.67				1466.67		220.00		61.11		6.52									
6.94	TO	6.99	1	L/R	264.00	58.00	1701.33				1701.33		255.20		70.89		6.52									
6.99	TO	7.19	2	L/R	1056.00	36.00	4224.00				4224.00		633.60		176.00											
7.19	TO	7.24	2	L/R	264.00	42.00	1232.00				1232.00		184.80		51.33											
7.24	TO	7.47	2	L/R	1214.40	48.00	6476.80				6476.80		971.52		269.87											
7.49	TO	7.59	2	L/R	528.00	48.00	2816.00				2816.00		422.40		117.33											
7.59	TO	7.66	3	L/R	369.60	57.00	2340.80				2340.80		351.12		97.53		4.56									
7.85	TO	7.86	2	L/R	52.80	101.50		429.00			429.00		64.35		17.88											
SUBTOTALS									0.00	0.00	105377.8	0.00	15806.67	0.00	4390.74	0.00	433.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TOTALS CARRIED TO GENERAL SUMMARY									0	0	105378	0	15807	0	4391	0	434	0	0	0	0	0	0	0	0	0.00

ASPHALT CONCRETE SUBSUMMARY

STA-241-3.64

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SLM RANGE			TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	202	254	407	448	617											
					FT	FT	SQ YD	SQ YD	SQ YD		SQ YD		GALLON		CU YD		CU YD							
INTERSECTIONS																								
3.64	TO	4.16			2.00	VARIES		36.67	36.67			5.50	1.53											
4.16	TO	6.01			2.00	VARIES		153.11	153.11			22.97	6.38											
6.01	TO	7.86			2.00	VARIES		213.56	213.56			32.03	8.90											
DRIVEWAYS																								
3.64	TO	4.16											1.00											
4.16	TO	6.01											2.00											
6.01	TO	7.86											1.00											
MAILBOX APPROACHES																								
3.64	TO	4.16			VARIES	VARIES			24.80				1.40											
4.16	TO	6.01			VARIES	VARIES																		
6.01	TO	7.86			VARIES	VARIES			12.40				0.07											
SUBTOTALS									440.54	0.00	0.00	0.00	60.50	0.00	22.28	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
TOTALS CARRIED TO GENERAL SUMMARY									441	0	0	0	61	0	23	0	0	0	0	0	0	0	0	0





EDGE LINE															GENERAL SPEC: 640	
															MATERIAL TYPE: 646	
CTY	ROUTE	TRUE LOG	FROM	TRUE LOG	TO	WHITE EDGE LINE			YELLOW EDGE LINE			COMMENTS				
						TOTAL	HIGHWAY	RAMP	TOTAL	HIGHWAY	RAMP					
STA	241	3.64	SR 93 (MANCHESTER AVE)	4.16	US 30 RAMP	1.04										
STA	241	4.16	US 30 RAMP	6.01	CITY OF MASSILLON CORP LIMIT	3.70										
STA	241	6.01	CITY OF MASSILLON CORP LIMIT	7.86	ERIE ST	3.70										
											</					

15 20	STA -241-3.64	RAISED PAVEMENT MARKINGS SUBSUMMARY	CALCULATED JED CHECKED
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STANDARD DRAWINGS AND SUPPLEMENTAL SPECIFICATIONS

AND TO THE FOLLOWING SUPPLEMENTAL SPECIFICATION(S):

843 DATED 10/21/11

DESIGN SPECIFICATIONS

DESIGN SPECIFICATIONS: THIS STRUCTURE CONFORMS TO THE 'STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES' ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 17TH EDITION, INCLUDING THE 2002 INTERIM SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL.

EXISTING STRUCTURE VERIFICATION

DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUCTURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASUREMENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXISTING STRUCTURE AND THE PROPOSED WORK BUT THEY SHALL BE CONSIDERED TENTATIVE AND APPROXIMATE. THE CONTRACTOR IS REFERRED TO CMS SECTIONS 102.05, 105.02 AND 513.04.

BASE CONTRACT BID PRICES UPON A RECOGNITION OF THE UNCERTAINTIES DESCRIBED ABOVE AND UPON A PREBID EXAMINATION OF THE EXISTING STRUCTURE. HOWEVER, THE DEPARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED IN THE FIELD.

PROPOSED WORK: STA-241-0396 (OVER PIGEON RUN)

- PAVE EXISTING INVERT OF STRUCTURE WITH CONCRETE.
- EPOXY-URETHANE SEALING OF ALL EXPOSED CONCRETE SURFACES OF THE HEADWALLS.
- REPAIR SCOUR AT INLET END OF STRUCTURE.
- REPAIR EMBANKMENT EROSION AROUND THE INLET END.
- CLEARING AND GRUBBING OF ALL VEGETATION 15 FT AROUND THE STRUCTURE.
- NEW STRUCTURE IDENTIFICATION SIGNS.

PROPOSED WORK: STA-241-0422 (OVER STA-30-4.00)

- SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH SRS CONCRETE TREATMENT.
- CLEAN THE EXISTING STRUCTURAL STEEL.
- REPAIR EXISTING OZEU PAINT SYSTEM.
- PATCH AND SEAL ALL UNSOUND AREAS OF THE CONCRETE SUBSTRUCTURE. REMOVE ALL SPALLED AREAS OF THE BOTTOM DECK FLOOR AND SEAL WITH EPOXY-URETHANE.
- EPOXY-URETHANE SEALING OF ALL EXPOSED CONCRETE SURFACES OF THE PARAPETS.
- REPAIR EMBANKMENT EROSION NEAR THE RIGHT REAR.
- CLEARING AND GRUBBING OF ALL VEGETATION 15 FT AROUND THE STRUCTURE.
- NEW STRUCTURE IDENTIFICATION SIGNS.

PROPOSED WORK: STA-241-0766 (OVER RJ CORMAN RR, TUSCARAWAS RIVER)

- REPAIR DAMAGED TUBULAR RAILING AND POSTS.
- CLEAN SCUPPERS.
- PATCH AND SEAL ALL UNSOUND AREAS OF THE CONCRETE SUBSTRUCTURE. REMOVE ALL SPALLED AREAS OF THE BOTTOM DECK FLOOR AND SEAL WITH EPOXY-URETHANE.
- REMOVE LOG JAMS AGAINST PIERS.
- CLEARING AND GRUBBING OF ALL VEGETATION 15 FT AROUND THE STRUCTURE.
- NEW STRUCTURE IDENTIFICATION SIGNS.

CLEARING AND GRUBBING

ALTHOUGH THERE ARE NO TREES OR STUMPS SPECIFICALLY MARKED FOR REMOVAL WITHIN THE LIMITS OF THE PROJECT, A LUMP SUM QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR ITEM 201, CLEARING AND GRUBBING. ALL PROVISIONS AS SET FORTH IN THE SPECIFICATIONS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 201, CLEARING AND GRUBBING.

ITEM 203, BORROW (STA-241-0396 & STA-241-0422)

THIS ITEM OF WORK WILL CONSIST OF REPAIRING EROSION THAT HAS OCCURRED AT THE FOLLOWING STRUCTURES:
STA-241-0396 (INLET END)
STA-241-0422 (RIGHT REAR)

ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK WILL BE INCLUDED IN THE UNIT PRICE FOR THE PERTINENT BID ITEM. THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR EACH STRUCTURE:

203, BORROW, 5 CU YD
659, SEEDING AND MULCHING, 66 SQ YD
659, COMMERCIAL FERTILIZER, 0.01 TON
659, LIME, 0.02 ACRES
659, WATER, 1 M. GAL.

ITEM 514 - FIELD PAINTING, MISC.; REPAIR PAINTING (STA-241-0422)

PAINTED AREAS THAT ARE DAMAGED OR RUSTED WILL BE DESIGNATED BY THE PROJECT ENGINEER. THE CMS 514.22 PROCESS WILL BE USED TO REPAIR THESE AREAS.

THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH ALL NECESSARY EQUIPMENT TO INSPECT THIS WORK.

THE MAJORITY OF THE AREAS TO BE REPAIR PAINTED ARE: OVER BOTH NORTH AND SOUTH BOUND LANES OF US 30.

AREAS TO BE REPAIR PAINTED ARE NOT LIMITED TO THESE AREAS. THE AREAS DESIGNATED BY THE PROJECT ENGINEER WILL BE PAINTED.

ITEM 514 - PAINTING OF STRUCTURAL STEEL (STA-241-0422)

THE COLOR FOR THE FINISHED COAT OF STRUCTURE(S) STA-241-0422 WILL CLOSELY MATCH TO FEDERAL COLOR NUMBER BLUE FS 595B-15450.

ITEM 517 - RAILING, MISC.: REPLACE TUBULAR RAILING (STA-241-0766)

THIS ITEM OF WORK WILL CONSIST OF REMOVING DAMAGED TUBULAR RAILING AND SUPPORTS. DAMAGE IS LOCATED AT STA-241-0766, REPLACE 20FT OF RAILING AND 5 POSTS. THE ENGINEER WILL DETERMINE WHICH AREAS NEED TO BE REPLACED. ALL RAILING BEING REPLACED WILL BE FIELD MEASURED TO VERIFY SIZE AND LENGTHS PRIOR TO ORDERING MATERIALS. REPLACING TUBULAR RAILING AND SUPPORTS WILL BE PAID FOR AT UNIT BID PRICE FOR ITEM 517 RAILING, MISC.: REPLACE TUBULAR RAILING. THIS PRICE WILL INCLUDE THE COST FOR MATERIALS, LABOR, EQUIPMENT, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE REPLACEMENT OF TUBULAR RAILING.

ITEM 518 - SCUPPER MISC.: CLEANOUT (STA-241-0766)

THIS WORK WILL CONSIST OF REMOVING ALL DEBRIS FROM ON TOP AND INSIDE OF THE SCUPPERS. SCUPPER CLEANOUT WILL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM 518, SCUPPER MISC.: CLEANOUT. THIS PRICE WILL INCLUDE THE COST FOR LABOR, EQUIPMENT, AND ALL INCIDENTALS REQUIRED TO COMPLETE THIS WORK.

ITEM 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN

ITEM 519 - PATCHING CONCRETE STRUCTURES, AS PER PLAN: PRIOR TO THE SURFACE CLEANING SPECIFIED IN 519.04 AND WITHIN 24 HOURS OF PLACING PATCHING MATERIAL, BLAST CLEAN ALL SURFACES TO BE PATCHED INCLUDING THE EXPOSED REINFORCING STEEL. ACCEPTABLE METHODS INCLUDE HIGH-PRESSURE WATER BLASTING WITH OR WITHOUT ABRASIVES IN THE WATER, ABRASIVE BLASTING WITH CONTAINMENT, OR VACUUM ABRASIVE BLASTING.

SPECIAL - STRUCTURE MISC.: STRUCTURE CLEANING (STA-241-0422)

THIS WORK WILL CONSIST OF CLEANING THE BEAMS/GIRDERS AND BEARINGS OF STRUCTURE(S) STA-241-0422 AS PER CMS 514.14. ALSO, ALL DIRT AND DEBRIS FROM THE ABUTMENTS, BEAM SEATS, AND PIER CAPS WILL BE REMOVED AND WASHED WITH POTABLE WATER. THIS WORK WILL BE COMPLETED PRIOR TO THE REPAIR PAINTING OPERATIONS.

STRUCTURE CLEANING WILL BE PAID FOR AT THE LUMP SUM BID FOR SPECIAL, STRUCTURE MISC.: STRUCTURE CLEANING. THIS PRICE WILL INCLUDE THE COST FOR LABOR, EQUIPMENT, AND ALL INCIDENTALS REQUIRED TO COMPLETE THIS WORK.

SPECIAL - STRUCTURE MISC.: CONCRETE SPALL REMOVAL (STA-241-0422 & STA-241-0766)

THIS WORK WILL CONSIST OF REMOVING ALL VISIBLY SPALLED AREAS OF THE BOTTOM DECK FLOOR OF STRUCTURES STA-241-0422 AND STA-241-0766 WITHOUT SOUNDING. AFTER SPALLED CONCRETE AREAS HAVE BEEN REMOVED, REMOVAL AREAS WILL BE SEALED WITH ITEM 512, SEALING OF CONCRETE SURFACES (EPOXY- URETHANE).

CONCRETE SPALL REMOVAL WILL BE PAID FOR AT THE UNIT BID PRICE FOR SPECIAL - STRUCTURE MISC.: CONCRETE SPALL REMOVAL. THIS PRICE WILL INCLUDE THE COST OF LABOR, EQUIPMENT, AND ALL INCIDENTALS REQUIRED TO COMPLETE THIS WORK.

ITEM 601, ROCK CHANNEL PROTECTION (STA-241-0396)

THIS ITEM OF WORK WILL CONSIST OF REPAIRING SCOUR THAT HAS OCCURRED AT THE INLET END OF STRUCTURE STA-241-0396.

ALL MATERIALS, LABOR, EQUIPMENT, TOOLS, AND INCIDENTALS NECESSARY TO COMPLETE THIS WORK WILL BE INCLUDED IN THE UNIT PRICE FOR THE PERTINENT BID ITEM. THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

601, ROCK CHANNEL PROTECTION TYPE A WITH AGGREGATE FILTER, 10 CU. YD.

ITEM 611 - FIELD PAVING OF EXISTING PIPE (STA-241-0396)

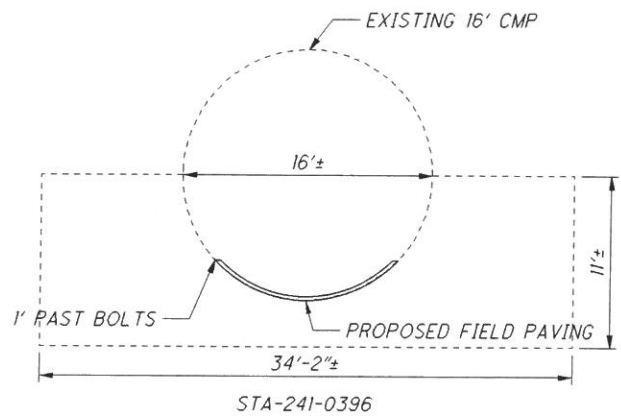
FIELD PAVE THE EXISTING 16' CORRUGATED METAL PIPE. THE CONTRACTOR WILL PAVE THE BOTTOM OF THE EXISTING PIPE AS SHOWN IN THE DETAIL.

AREAS TO BE PAVED WILL BE CLEANED TO REMOVE ALL DEBRIS AND SEDIMENT AND WILL BE PAID FOR UNDER ITEM SPECIAL - PIPE CLEANOUT.

THE CONTRACTOR WILL BE REQUIRED TO USE ITEM 503 - COFFERDAMS AND EXCAVATION BRACING (CRIBS, AND SHEETING) TO DEWATER THE EXISTING PIPE PRIOR TO THE PREPARATION AND FIELD PAVING. AFTER THE PIPE HAS BEEN CLEANED OF ALL DEBRIS AND SEDIMENT, NO WATER WILL BE ALLOWED TO CONTAMINATE THE PIPE. IF ANY CONTAMINATION OCCURS, THE CONTRACTOR WILL RESEAL THE AREA AND RECLEAN THE PIPE AT NO ADDITIONAL COST.

ALL EROSION UNDER THE PIPE AND IN THE VOIDS WHERE THE PIPE IS RUSTED THROUGH WILL BE FILLED WITH ITEM 613 - LOW STRENGTH MORTAR BACKFILL.

ANY TREES LOCATED WITHIN 15' OF THE HEADWALLS THAT MAY POTENTIALLY DAMAGE THE CULVERT IN THE FUTURE OR ENCROACH UPON THE STREAM BEAD OR FIELD PAVING OPERATIONS WILL BE REMOVED. REMOVAL WILL BE DETERMINED BY THE PROJECT ENGINEER AND REMOVED UNDER ITEM 201 - CLEARING AND GRUBBING.



SIZE: 16'-0" CMP
MATERIAL: CORRUGATED METAL PIPE
LENGTH: 175'
SKEW: 0°00'00"
HALF HEIGHT HEADWALLS

STRUCTURE GENERAL NOTES

BRIDGE NO.: STA-241-0396, STA-241-0422, & STA-241-0766

SR 241 OVER PIGEON CREEK, SR 241 OVER US 30, & SR 241 OVER RJ CORMAN RR.

STA-241-3.64

PID No. 82927

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DESIGN AGENCY

ODOT --- DISTRICT 4

PLANNING & ENGINEERING

DATE

09/06/13

REVIEWED

LMP

DRAWN

MAC

DESIGNED

MAC

CHECKED

LMP

STRUCTURE FILE NUMBER

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STRUCTURE IDENTIFICATION SIGNS

STRUCTURE IDENTIFICATION SIGNS (I-H25a) WILL BE PLACED ON EACH APPROACH OFF THE RIGHT SHOULDER, FACING TRAFFIC, AND BEHIND THE GUARDRAIL IF APPLICABLE. A QUANTITY OF ONE SIGN PER APPROACH WILL BE INSTALLED. THE SIGNS WILL HAVE A NON-REFLECTIVE WHITE SHEETING BACKGROUND.

THE SIGNS WILL BE MOUNTED ON NEW NO. 2 POSTS AND WILL BE INSTALLED AS PER STANDARD CONSTRUCTION DRAWING TC-41.20, MOST CURRENT REVISION. EACH POST WILL BE 7.5' IN LENGTH.

INSTALL SIGNS FOR THE FOLLOWING STRUCTURES:
STA-241-0396 (2 APPROACHES)
STA-241-0766 (2 APPROACHES)

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED FOR EACH APPROACH:

- ITEM 630 - SIGN, FLAT SHEET, 730.20, 1 SQ FT
- ITEM 630 - GROUND MOUNTED SUPPORT, NO. 2 POST, 7.5 FT
- ITEM 630 - REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL, 1 EACH
- ITEM 630 - REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL, 1 EACH

OBJECT MARKERS AND STRUCTURE IDENTIFICATION SIGNS

OBJECT MARKERS WILL BE PLACED ON EACH APPROACH OFF THE LEFT AND RIGHT SHOULDER, FACING TRAFFIC, AND BEHIND THE GUARDRAIL IF APPLICABLE. ONE OM-3L AND ONE OM-3R WILL BE INSTALLED AT EACH APPROACH. THE SIGNS WILL BE MOUNTED ON NEW NO. 2 POSTS AND SHALL BE INSTALLED AS PER STANDARD CONSTRUCTION DRAWING TC-41.20, MOST CURRENT REVISION. EACH POST WILL BE 10.5 FT IN LENGTH.

STRUCTURE IDENTIFICATION SIGNS (I-H25a) WILL BE INSTALLED ON THE SAME POST AND DIRECTLY BELOW THE OBJECT MARKER OFF THE RIGHT SHOULDER ON EACH APPROACH. A QUANTITY OF ONE SIGN WILL BE INSTALLED AT EACH APPROACH. THE SIGNS WILL HAVE A NON-REFLECTIVE WHITE SHEETING BACKGROUND.

INSTALL SIGNS FOR THE FOLLOWING STRUCTURES:
STA-241-0422 (2 APPROACHES)

THE FOLLOWING QUANTITIES HAVE BEEN INCLUDED FOR EACH APPROACH:

- ITEM 630 - SIGN, FLAT SHEET, 730.20, 1 SQ FT
- ITEM 630 - SIGN, FLAT SHEET, 6 SQ FT
- ITEM 630 - GROUND MOUNTED SUPPORT, NO. 2 POST, 21 FT
- ITEM 630 - REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL, 2 EACH
- ITEM 630 - REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL, 1 EACH

CORRECTING BRIDGE IDENTIFICATION SIGN NUMBERS:

SOME OF THE EXISTING BRIDGE NUMBER SIGNS HAVE INCORRECT BRIDGE NUMBERS ON THEM. THE FOLLOWING BRIDGE NUMBERS ARE THE CORRECT ONES AND WILL BE USED ON THE NEW BRIDGE IDENTIFICATIONS SIGNS.

STRUCTURE STA-241-0396 (SFN:7606087) THE EXISTING SIGN SHOWS 0397. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 0396.

STRUCTURE STA-241-0766 (SFN:7606176) THE EXISTING SIGN SHOWS 0767. THE CORRECT BRIDGE IDENTIFICATION NUMBER IS 0766.

ITEM SPECIAL - PIPE CLEANOUT

THIS WORK SHALL CONSIST OF REMOVING SEDIMENT AND DEBRIS FROM THE EXISTING DRAINAGE CONDUITS SPECIFIED IN THE PLANS. ALL MATERIAL REMOVED SHALL BE DISPOSED OF AS PER 105.16 AND 105.17. ALL SEWERS SHALL BE CLEANED OUT TO THE SATISFACTION OF THE ENGINEER.

CLEANOUT OF THE PIPE SHALL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM SPECIAL - PIPE CLEANOUT. THIS PRICE SHALL INCLUDE THE COST FOR MATERIAL, EQUIPMENT, LABOR, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CLEANOUT.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY FOR THE ABOVE NOTED WORK:

SPECIAL, PIPE CLEANOUT 175 FT.

ITEM 202 - REMOVAL MISC.: CHANNEL CLEANOUT (STA-241-0766)

THIS WORK WILL CONSIST OF RE-ESTABLISHING THE ORIGINAL CHANNEL PROFILE BY REMOVING SEDIMENT BUILDUP, VEGETATION, AND DEBRIS FROM THE EXISTING CHANNEL WITHIN STATE RIGHT- OF-WAY LIMITS AS SPECIFIED IN THE PLANS FOR STRUCTURES STA-241-0766. ANY TREES LOCATED WITHIN CHANNEL OR BANK LIMITS WILL BE INCLUDED UNDER ITEM 201, CLEARING AND GRUBBING. ALL MATERIALS REMOVED SHALL BE DISPOSED OF IN ACCORDANCE WITH 105.16 AND 105.17 OF THE CMS WITH THE APPROVAL OF THE ENGINEER. NO AREAS OF EXISTING CHANNEL PROTECTION SHALL BE REMOVED IN ORDER TO RESTORE THE ORIGINAL CHANNEL PROFILE. AFFECTED CHANNEL AREAS SHALL BE CLEANED OUT TO THE SATISFACTION OF THE ENGINEER.

CHANNEL CLEANOUT WILL BE PAID FOR AT THE UNIT PRICE BID FOR ITEM 202 REMOVAL MISC.: CHANNEL CLEANOUT. THIS PRICE WILL INCLUDE THE COST FOR LABOR, EQUIPMENT, AND ALL INCIDENTALS REQUIRED TO COMPLETE THE CHANNEL CLEANOUT.

PROTECTED FRESHWATER MUSSEL SPECIES ARE PRESENT IN THE TUSCARAWAS RIVER IN PROXIMITY OF EXISTING STA-241-0766 BRIDGE PIER LOCATIONS AND ALONG THE EAST AND WEST BANKS OF THE TUSCARAWAS RIVER. THE PROJECT PROPOSES TO REMOVE LOG JAMS FROM TWO EXISTING PIER LOCATIONS WITHIN THE TUSCARAWAS RIVER CHANNEL. IN-STREAM WORK RESTRICTIONS HAVE BEEN ESTABLISHED FOR THE TUSCARAWAS RIVER.

UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PLACE ANY TEMPORARY OR PERMANENT FILLS OR PERFORM AND GRADING OPERATIONS BELOW THE ORDINARY HIGH WATER MARK OF THE TUSCARAWAS RIVER. THE ORDINARY HIGH WATER MARK IS THE LINE ON THE SHORES ESTABLISHED BY THE FLUCTUATIONS OF WATER AND INDICATED BY PHYSICAL CHARACTERISTICS SUCH AS A CLEAR, NATURAL LINE IMPRESSED ON THE BANK; SHELVEING; CHANGES IN THE CHARACTER OF THE SOIL; DESTRUCTION OF TERRESTRIAL VEGETATION; THE PRESENCE OF LITTER AND DEBRIS; OR THE APPROPRIATE MEANS THAT CONSIDER THE CHARACTERISTICS OF THE SURROUNDING AREAS.

FORDING OF WATERWAYS IS NOT ALLOWED PER ODOT CONSTRUCTION AND MATERIAL SPECIFICATIONS AND THE CONTRACTOR IS REQUIRED TO ACCESS AND REMOVE THE LOG JAMS FROM THE RIVER BANKS AND/OR FROM THE STA-241-0766 BRIDGE DECK. PLACEMENT OF LARGE CONSTRUCTION EQUIPMENT BELOW THE ORDINARY HIGH WATER MARK OF THE TUSCARAWAS RIVER IS PROHIBITED.

ALL NATIVE FRESHWATER MUSSEL SPECIES ARE PROTECTED AND MUST BE RELOCATED FROM THE LOG JAM REMOVAL AREAS OF DIRECT IMPACT AND ADJACENT BUFFER AREAS BELOW THE ORDINARY HIGH WATER MARK OF THE TUSCARAWAS RIVER. ALL MUSSELS PRESENT WITHIN PROXIMITY OF THE LOG JAM LOCATIONS SHALL BE RELOCATED BY ODOT CENTRAL OFFICE ECOLOGICAL UNIT PERSONNEL PRIOR TO LOG JAM REMOVAL OPERATIONS AT BRIDGE STRUCTURE NO. STA-241-0766. THE CONTRACTOR SHALL PROVIDE A SCHEDULE FOR LOG JAM REMOVAL OPERATIONS AT THE PRECONSTRUCTION MEETING AND ALSO PROVIDE WRITTEN NOTIFICATION TO THE ODOT, DISTRICT 4 ENVIRONMENTAL COORDINATOR AND THE ODOT CENTRAL OFFICE ECOLOGICAL UNIT A MINIMUM OF 30 DAYS PRIOR TO THE COMMENCEMENT OF LOG JAM REMOVAL OPERATIONS AT BRIDGE STRUCTURE NO. STA-241-0766.

THE CONTRACTOR SHALL PERFORM LOG JAM REMOVAL OPERATIONS DURING LOW FLOW CONDITIONS AFTER JUNE 30, 2014.

WATERWAY PERMITS DETERMINATION (404/401) - ODOT PROJECTS

ALL PROJECTS INVOLVING JURISDICTIONAL WATERS OF THE UNITED STATES (STREAMS, RIVERS, NON-ISOLATED WETLANDS) AND/OR ISOLATED WETLANDS ARE SUBJECT TO REGULATION UNDER SECTIONS 404 AND 401 OF THE CLEAN WATER ACT, AND POSSIBLY OHIO EPA ISOLATED WETLAND LAW. THE PROJECT IS AUTHORIZED UNDER THE CRITERIA OF SECTION B (MAINTENANCE) OF THE REGIONAL GENERAL PERMIT (RGP) FOR THE LOG JAM REMOVAL ACTIVITIES AT STA-241-0766 (TUSCARAWAS RIVER), AND SECTION B (MAINTENANCE) AND SECTION C (TEMPORARY CONSTRUCTION, ACCESS, AND DEWATERING) OF THE RGP FOR THE MAINTENANCE ACTIVITIES AT STA-241-0396 (PIGEON RUN). THE WATERWAY PERMITS VERIFIED FOR THE PROJECT ARE INCORPORATED INTO THE PROJECT CONSTRUCTION PLAN AS SPECIAL PROVISIONS. THE PROJECT CONTRACTOR SHALL ADHERE TO ALL WATERWAY PERMIT TERMS AND CONDITIONS THROUGHOUT PROJECT CONSTRUCTION.

IN-STREAM WORK RESTRICTIONS

ALL IN-STREAM WORK SHALL BE COMPLETED BY THE CONTRACTOR PRIOR TO OCTOBER 23, 2014; THE EXPIRATION OF THE RGP.

THE REMOVAL/ELIMINATION OF LOG JAMS FROM STA-241-0766 PIER LOCATIONS WITHIN THE TUSCARAWAS RIVER CHANNEL SHALL BE PERFORMED BY THE CONTRACTOR DURING LOW FLOW CONDITIONS AFTER JUNE 30, 2013 AND BEFORE OCTOBER 23, 2014.

THE CONTRACTOR SHALL ADVISE THE ODOT PROJECT ENGINEER A MINIMUM OF THIRTY (30) DAYS PRIOR TO THE START OF LOG JAM REMOVAL OPERATIONS AT STA-241-0766. THE ODOT PROJECT ENGINEER WILL FORWARD THE SCHEDULE INFORMATION TO THE ODOT - DISTRICT 4 ENVIRONMENTAL COORDINATOR AND THE ODOT - OFFICE OF ENVIRONMENTAL SERVICES TO ARRANGE FOR RELOCATION OF FRESHWATER MUSSELS PRESENT IN THE TUSCARAWAS RIVER CHANNEL WITHIN THE PROJECT FOOTPRINT. THE FOLLOWING ODOT PERSONNEL SHALL BE CONTACTED AND PROVIDED PROJECT INFORMATION:

MR. EDWARD DELEY, JR.,
ODOT DISTRICT 4 ENVIRONMENTAL COORDINATOR
TELEPHONE: (330) 786-4930
EMAIL: EDWARD.DELEY@DOT.STATE.OH.US

MIKE PETTEGREW, ENVIRONMENTAL SUPERVISOR
ODOT OFFICE OF ENVIRONMENTAL SERVICES
TELEPHONE: (614) 466-7102
EMAIL: MIKE.PETTEGREW@DOT.STATE.OH.US

MEGAN MICHAEL, ENVIRONMENTAL SPECIALIST
ODOT OFFICE OF ENVIRONMENTAL SERVICES
TELEPHONE: (614) 644-7099
EMAIL: MEGAN.MICHAEL@DOT.STATE.OH.US

NO EQUIPMENT (TRACKED EXCAVATORS, BACKHOE, ETC.) OR TEMPORARY FILLS (INCLUDING, BUT NOT LIMITED TO, CAUSEWAYS, WORK PADS, COFFER DAMS, SHEET PILING, AND CONSTRUCTION EQUIPMENT) ARE PERMITTED BELOW THE ORDINARY HIGH WATER MARK OF THE TUSCARAWAS RIVER. ANY UNAUTHORIZED TEMPORARY IMPACTS THAT OCCUR IN THE TUSCARAWAS RIVER WILL BE IN VIOLATION OF SECTION 404 AND 401 OF THE CLEAN WATER ACT. THE ORDINARY HIGH WATER MARK IS THE LINE ON THE SHORES ESTABLISHED BY THE FLUCTUATIONS OF WATER AND INDICATED BY PHYSICAL CHARACTERISTICS SUCH AS A CLEAR, NATURAL LINE IMPRESSED ON THE BANK; SHELVEING; CHANGES IN THE CHARACTER OF THE SOIL; DESTRUCTION OF TERRESTRIAL VEGETATION; THE PRESENCE OF LITTER AND DEBRIS; OR THE APPROPRIATE MEANS THAT CONSIDER THE CHARACTERISTICS OF THE SURROUNDING AREAS.

LOGS AND OTHER DEBRIS SHALL BE REMOVED FROM THE TUSCARAWAS RIVER CHANNEL BY THE CONTRACTOR IN SUCH A MANNER AS TO MINIMIZE TURBIDITY THAT COULD DEGRADE WATER QUALITY AND ADVERSELY AFFECT AQUATIC PLANT OR ANIMAL LIFE. ALL MATERIAL REMOVED FROM THE RIVER SHALL BE IMMEDIATELY REMOVED TO AN UPLAND SITE AND STABILIZED (I.E. SEEDDED) TO PREVENT REDISTRIBUTION INTO ANY WATERS OF THE UNITED STATES. IMMEDIATE REMOVAL IS DEFINED BY THE UNITED STATES ARMY CORPS OF ENGINEERS AS DEPOSITING THE REMOVED MATERIALS DIRECTLY INTO A TRUCK AND REMOVING THE MATERIAL FROM THE SITE.

IN THE EVENT LOGS CAN'T BE RETRIEVED SUCCESSFULLY BY EQUIPMENT STAGED ABOVE THE ORDINARY HIGH WATER MARK OF THE RIVER, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER. ANY REMAINING LOGS SHALL BE CUT, OPENING THE LOG JAM FROM THE PIER LOCATIONS AS DIRECTED BY THE PROJECT ENGINEER. THE CONTRACTOR WILL BE PROHIBITED FROM LEAVING ANY LARGE LOG/WOODY DEBRIS WITHIN THE TUSCARAWAS RIVER CHANNEL OR FLOOD PLAIN THAT COULD POTENTIALLY PROMOTE DOWNSTREAM OBSTRUCTION, CONTRIBUTE TO PILE-UP BEHIND DOWNSTREAM BRIDGES OR CULVERTS AND/OR INCREASE HAZARDS DOWNSTREAM OF THE PROJECT.

STRUCTURE GENERAL NOTES

BRIDGE NO.: STA-241-0396, STA-241-0422, & STA-241-0766
SR 241 OVER PIGEON CREEK, SR 241 OVER US 30, & SR 241 OVER RJ CORMAN RR.

STA - 241 - 3.64
PID No. 82927

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DESIGN AGENCY
ODOT --- DISTRICT 4
PLANNING & ENGINEERING

DATE
09/06/13
REVIEWED
LMP
STRUCTURE FILE NUMBER

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BEST MANAGEMENT PRACTICES

WATER COLUMN AND SEDIMENTATION IMPACTS SHALL BE KEPT TO A MINIMUM THROUGH THE USE OF BEST MANAGEMENT PRACTICES FOR SOIL EROSION AND SEDIMENTATION CONTROL. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO ANY EXCAVATION, GRADING OR FILLING OPERATIONS AND INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES. THEY SHALL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND THE AREA IS STABILIZED AS ACCEPTED BY THE ENGINEER.

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT ANY INCIDENTAL DISCHARGES ASSOCIATED WITH THE EXCAVATION AND HAULING OF MATERIAL FROM STREAMS AND/OR RIVERS. THIS PERTAINS TO ANY EXCAVATION OPERATION SUCH AS, FOUNDATION PIER OR ABUTMENT EXCAVATION, CHANNEL CLEAN OUT, EXCAVATION FOR ROCK CHANNEL PROTECTION.

ALL MATERIALS REMOVED FROM THE STREAMS AND/OR RIVERS MUST BE IMMEDIATELY REMOVED TO AN UPLAND SITE AND STABILIZED (I.E., SEEDED) TO PREVENT REDISTRIBUTION INTO ANY WATERS OF THE UNITED STATES. IMMEDIATE REMOVAL IS DEFINED BY THE UNITED STATES ARMY CORPS OF ENGINEERS AS DEPOSITING THE REMOVED MATERIALS DIRECTLY INTO A TRUCK AND REMOVING THE MATERIAL FROM THE SITE. PLACEMENT OF REMOVED MATERIALS INTO WETLANDS OR ON THE BANKS OF A STREAM/RIVER EVEN TEMPORARILY IS CONSIDERED A FILL AND REQUIRES A PERMIT ACTION.

NATURAL BUFFERS ADJACENT TO STREAMS AND WETLANDS SHALL BE PRESERVED TO THE MAXIMUM EXTENT PRACTICABLE. EQUIPMENT STAGING AREAS SHALL BE KEPT WELL AWAY FROM STREAMS AND WETLANDS TO THE EXTENT PRACTICABLE. ODOT CONSTRUCTION AND MATERIALS SPECIFICATIONS SECTION 107.10 (PROTECTION AND RESTORATION OF PROPERTY) PROHIBITS THE CONTRACTOR FROM CREATING STAGING AREAS NEAR STREAMS/WETLANDS. AREAS DISTURBED BY THE PROJECT SHALL BE SEEDED/REVEGETATED WITH NATIVE PLANT SPECIES AND MULCHED DURING CONSTRUCTION TO ENCOURAGE ESTABLISHMENT OF VEGETATION COVER, DECREASE EROSION AND PREVENT EROSION OF SEDIMENTS INTO WATERS OF THE UNITED STATES.

CONSTRUCTION AND DEMOLITION DEBRIS

THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID AND/OR LIMIT CONSTRUCTION AND DEMOLITION DEBRIS FROM ENTERING WETLANDS AND STREAMS. ANY DEBRIS THAT DOES FALL INTO WETLANDS AND/OR STREAMS SHALL BE REMOVED AS SOON AS POSSIBLE WITHIN 72 HOURS.

MECHANICAL EQUIPMENT OPERATION IN STREAMS

THE MECHANICAL EQUIPMENT USED TO EXECUTE THE WORK AUTHORIZED HEREIN SHALL BE OPERATED IN SUCH A WAY AS TO MINIMIZE TURBIDITY THAT COULD DEGRADE WATER QUALITY AND ADVERSELY AFFECT AQUATIC PLANT AND ANIMAL LIFE.

PAINTING AND SEALING OPERATIONS

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT EPOXY-URETHANE SEALER, PAINT OR OTHER MATERIALS USED TO REPAIR, CLEAN, PAINT, SEAL OR TREAT ANY STRUCTURE FROM ENTERING ANY STREAMS, WETLANDS OR OTHER WATERS OF THE UNITED STATES AND TAKE THE APPROPRIATE ACTIONS IN THE EVENT OF A RELEASE.

WETLANDS AVOIDANCE

UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR IMPACT ANY WETLANDS. NO EXCAVATION, GRADING OR FILLING OPERATIONS SHALL BE PERFORMED WITHIN ANY WETLANDS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR STORE CONSTRUCTION EQUIPMENT AND/OR MATERIALS IN ANY WETLANDS.

ENDANGERED SPECIES HABITAT

TREES WITHIN THE PROJECT CONSTRUCTION LIMITS SHALL BE CLEARED ONLY BETWEEN SEPTEMBER 30 AND APRIL 1, WHENEVER PRACTICABLE. IF SOME TREE REMOVAL MUST BE CONDUCTED BETWEEN APRIL 1 AND SEPTEMBER 30, TREES CONTAINING SUITABLE INDIANA BAT ROOSTING HABITAT SHALL BE MARKED FOR AVOIDANCE DURING THESE MONTHS, IF AT ALL POSSIBLE.

THE UNDERSIDE OF BRIDGE STRUCTURES MUST BE CAREFULLY EXAMINED BY THE CONTRACTOR FOR THE PRESENCE OF BIRDS AND BATS. SHOULD ANY BIRDS OR BATS BE FOUND ROOSTING ON THE UNDERSIDE OF THE BRIDGE, THE CONTRACTOR IS REQUIRED TO NOTIFY THE PROJECT ENGINEER, ODOT DISTRICT 4 ENVIRONMENTAL COORDINATOR FOR POSSIBLE ADDITIONAL COORDINATION WITH ODOTS OFFICE OF ENVIRONMENTAL SERVICES.

SHOULD ADDITIONAL INFORMATION ON LISTED ENDANGERED/THREATENED/POTENTIALLY THREATENED SPECIES OR THEIR CRITICAL HABITAT BECOME AVAILABLE, OR IF NEW INFORMATION REVEALS EFFECTS OF THIS PROJECT THAT WERE NOT PREVIOUSLY CONSIDERED, ODOT WILL REINITIATE CONSULTATION WITH THE USFWS AND ODNR TO ASSESS WHETHER THE PROJECT DETERMINATIONS ARE STILL VALID.

TOWPATH TRAIL IMPACT AVOIDANCE (STA-241-0766)

TEMPORARY CONSTRUCTION FENCING SHALL BE INSTALLED BY THE CONTRACTOR ALONG PROPOSED PROJECT LIMITS ESTABLISHED AT BRIDGE STRUCTURE NO. STA-241-0766 PRIOR TO THE START OF CONSTRUCTION ACTIVITIES TO PROTECT THE EXISTING CONGRESSMAN RALPH REGULA TOWPATH TRAIL FACILITY AND THE PUBLIC.

PUBLIC USE OF THE CONGRESSMAN RALPH REGULA TOWPATH TRAIL AT THE STA-241-0766 BRIDGE STRUCTURE SHALL BE MAINTAINED BY THE CONTRACTOR AT ALL TIMES DURING CONSTRUCTION WITH FLAGGERS. FLAGGERS SHALL BE ON SITE FOR ALL TRAIL CROSSING AND WHEN PATCHING AND SEALING OR OTHER OPERATIONS ARE BEING PERFORMED OVERHEAD.

THE CONTRACTOR WILL CROSS THE TRAIL WITH EQUIPMENT FOR A MAXIMUM OF 5 DAYS. 24-HOUR NOTIFICATION SHALL BE PROVIDED BY THE CONTRACTOR IN WRITING TO THE PROJECT ENGINEER AND THE STARK COUNTY PARK DISTRICT. CROSSING THE CONGRESSMAN RALPH REGULA TOWPATH TRAIL ON WEEKENDS AND ON WEEKDAY EVENINGS AFTER 5:00PM IS PROHIBITED.

ADVANCE NOTICE OF THE PROJECT'S CONSTRUCTION SCHEDULE AND POTENTIAL FOR PUBLIC USERS TO ENCOUNTER FLAGGERS ON THE TRAIL SHALL BE PROVIDED BY THE CONTRACTOR NO LESS THAN 24 HOURS PRIOR TO CONSTRUCTION ACTIVITIES. NOTICES SHALL BE POSTED IN AN AREA THAT CAN BE SEEN BY USERS OF THE EXISTING TRAIL FACILITY.

THE CONTRACTOR SHALL PROVIDE THE APPROPRIATE LEVEL OF PROTECTION FOR PEDESTRIANS PASSING UNDER THE STA-241-0766 BRIDGE STRUCTURE.

ANY DISTURBANCE/DAMAGE CAUSED TO THE CONGRESSMAN RALPH REGULA TOWPATH TRAIL SURFACE AS A RESULT OF EQUIPMENT CROSSING SHALL BE REPAIRED IMMEDIATELY TO A CONDITION AT LEAST AS GOOD AS OR BETTER THAN EXISTING PRIOR TO CONSTRUCTION ACTIVITIES.

ACCESS TO RECREATIONAL FACILITIES LOCATED ON OR ASSOCIATED WITH THE CONGRESSMAN RALPH REGULA TOWPATH TRAIL SHALL BE MAINTAINED AT ALL TIMES DURING THE DURATION OF CONSTRUCTION ACTIVITIES. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR STORE EQUIPMENT AND/OR MATERIALS ON OR OTHERWISE IMPACT THE CONGRESSMAN RALPH REGULA TOWPATH TRAIL. THE CONTRACTOR WILL BE REQUIRED TO CLOSELY COORDINATE THE CONSTRUCTION SCHEDULE WITH THE STARK COUNTY PARK DISTRICT.

STA-241-3.64
PID No. 82927

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STRUCTURE GENERAL NOTES
BRIDGE NO.: STA-241-0396, STA-241-0422, & STA-241-0766
SR 241 OVER PIGEON CREEK, SR 241 OVER US 30, & SR 241 OVER RJ CORMAN RR.

DESIGNED MAC	CHECKED LMP
DRAWN MAC	REVIEWED LMP
DATE 09/06/13	
STRUCTURE FILE NUMBER	

DESIGN AGENCY
ODOT --- DISTRICT 4
PLANNING & ENGINEERING

I:\Projects\STA\82927_241_3.64\82927\structures\STA241_0168C\sheets\241_0168CEQ001.dgn 10-DEC-2013 8:50AM mchoney

CALC: MAC DATE: 7/19/2013
CHECKED: LMP DATE: 9/6/2013

ESTIMATED QUANTITIES												
BRIDGE NO. / STRUCTURE FILE NO.								ITEM	EXTENSION	UNIT	DESCRIPTION	SEE SHEET
STA-241-0396 SFN: 7606087 (04/STR/BR)		STA-241-0422 SFN: 7606215 (03/NHS/BR)		STA-241-0766 SFN: 7606176 (05/S>2/BR)								
LUMP		LUMP		LUMP				201	11000		CLEARING AND GRUBBING	
175								SPEC	20270100	FT	PIPE CLEANOUT	
				200				202	98200	FT	REMOVAL MISC.: CHANNEL CLEANOUT	2/5
5		5						203	40000	CU YD	BORROW	
LUMP								503	11100		COFFERDAMS AND EXCAVATION BRACING	
71		658		100				512	10100	SQ YD	SEALING OF CONCRETE SURFACES (EPOXY-URETHANE)	
		2262						512	10400	SQ YD	TREATING OF CONCRETE BRIDGE DECK WITH SRS	
		658						512	74000	SQ YD	REMOVAL OF EXISTING COATINGS FROM CONCRETE SURFACES	
		7000						514	27700	SQ FT	FIELD PAINTING, MISC.:REPAIR PAINTING	1/5
				20				517	76300	FT	RAILING, MISC.: REPLACE TUBULAR RAILING	1/5
				5				517	76302	EACH	RAILING, MISC.:POST SUPPORTS	1/5
				24				518	12500	EACH	SCUPPER, MISC.: CLEANOUT	1/5
		200		300				519	11101	SQ FT	PATCHING CONCRETE STRUCTURE, AS PER PLAN	1/5
		LUMP						SPEC	53000200		STRUCTURE, MISC.: STRUCTURE CLEANING	1/5
		50		100				SPEC	53000800	SQ YD	STRUCTURE, MISC.: CONCRETE SPALL REMOVAL	1/5
10								601	32010	CU YD	ROCK CHANNEL PROTECTION, TYPE A WITH AGGREGATE FILTER	
175								611	96550	FT	FIELD PAVING OF EXISTING PIPE(16'-0" CMP)	
15		42		15				630	02100	FT	GROUND MOUNTED SUPPORT, NO. 2 POST	
		12						630	80100	SQ FT	SIGN, FLAT SHEET	
2		2		2				630	80100	SQ FT	SIGN, FLAT SHEET, 730.20	
2		4		2				630	84900	EACH	REMOVAL OF GROUND MOUNTED SIGN AND DISPOSAL	
2		2		2				630	86002	EACH	REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL	
66		66						659	10000	SQ YD	SEEDING AND MULCHING	
0.01		0.01						659	20000	TON	COMMERCIAL FERTILIZER	
0.02		0.02						659	31000	ACRE	LIME	
1		1						659	35000	M GAL	WATER	
		100		200				843	50000	SQ FT	PATCHING CONCRETE STRUCTURES WITH TROWELABLE MORTAR	

DESIGN AGENCY
ODOT --- DISTRICT 4
PLANNING & ENGINEERING

REVIEWED
DATE
09/06/13
LMP
STRUCTURE FILE NUMBER

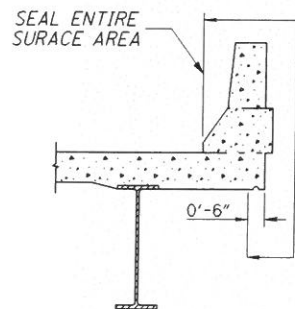
DRAWN
MAC
REVISED

DESIGNED
MAC
CHECKED
LMP

STRUCTURE ESTIMATED QUANTITIES
BRIDGE NO.: STA-241-0396, STA-241-0422, & STA-241-0766
SR 241 OVER PIGEON CREEK, SR 241 OVER US 30, & SR 241 OVER RJ CORMAN RR.

STA - 241 - 3.64
PID No. 82927

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DETAIL A
CONCRETE DECK WITH
DEFLECTOR PARAPET

[illegible]

				ESTIMATED QUANTITIES				
BRIDGE NUMBER	STRUCTURE TYPE	PROPOSED SEALING	FEDERAL COLOR NUMBER	ABUT (SQ YD)	PIER (SQ YD)	SUPER (SQ YD)	GENERAL (SQ YD)	TOTAL (SQ YD)
STA-241-0396	STEEL CULVERT FILLED	SEAL ALL EXPOSED CONCRETE SURFACES OF THE HEADWALLS	PER CMS				71	71
STA-241-0422	STEEL BEAM CONTINUOUS	SEAL PARAPETS PER DETAIL A SEAL ALL SUBSTRUCTURE PATCHED AREAS SEAL SPALL REMOVAL AREAS OF BOTTOM DECK FLOOR	PER CMS			573	85	658
STA-241-0766	STEEL BEAM CONTINUOUS	SEAL SPALL REMOVAL AREAS	PER CMS				100	100

NOTES:

- EPOXY-URETHANE SEALER SHALL BE USED UNLESS SHOWN OTHERWISE