

DESIGN FUNCTIONAL CLASSIFICATION / NHS: SR 93 11.71 TO 12.96 URBAN MINOR ARTERIAL / NO SR 93 12.96 TO 17.20 RURAL MINOR ARTERIAL / NO SR 93 17.20 TO 19.24 URBAN PRINCIPAL ARTERIAL / YES SR 236 0.00 TO 0.40 URBAN MINOR ARTERIAL / NO

# **DESIGN EXCEPTIONS**

NONE REQUIRED

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Md

TIME:

2021

DATE:

17×11 (in.)

STA-93/236-11.71/0.00

# ADA DESIGN WAIVERS

NONE REQUIRED

PEQUIRED			SUPPLEN SPECIFIC	MENTAL ATIONS	SPECIAL PROVISIONS					
UNDERGROUND UTILITIES		BP-3.1	1/17/20	TC-41.20	10/18/13			800-2019	7/16/21	
Contact Two Working Days		BP-3.2	1/18/19	TC-42.20	10/18/13			809	1/15/21	
Before You Dig				TC-52.10	10/18/ <del>1</del> 3			821	4/20/12	
	ENGINEER'S SEAL	DM-4.3	1/15/16	TC-52.20	1/15/21			832	10/19/18	
	ENGINEER 5 SEAE.	DM-4.4	1/15/16	TC-64.10	1/17/20	 		872	4/17/20	
<b>~</b> UHIU811.org	Section.			TC-65.10	1/17/14			874	4/17/20	
Before You Dig	TEOFO	BP-4.1	7/19/13	TC-65.11	7/21/17			875	1/18/19	
0HI0811 8-1-1 or 1-800-362-2764	MATTHEW	BP-7.1	7/17/20	TC-71.10	1/19/18			909	1/15/21	
(Non members must be called directly)								921	4/20/12	
(	CHANEY E-78423	RM-1.1	1/15/21			 				
PLAN PREPARED BY:	OF SECISTERED NUT	MT-97.10	4/19/19			 				
ODOT DISTRICT 4 PLANNING & ENGINEERING	i i i i i i i i i i i i i i i i i i i	MT-97.12	1/20/17			 				
2088 SOUTH ARLINGTON RD	17. 14. 16	MT-99.20	4/19/19							
	SIGNED:	MT-101.90	7/17/20							
Annon, 011 44300		MT-105.10	1/17/20							





(11)ITEM 441, ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), AS PER PLAN, PG70-22M, (T=1.25")

(12) ITEM 441, ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (446), (T=1.75")

(13) ITEM 441, ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448), (T=1")

(14) ITEM 617, COMPACTED AGGREGATE, AS PER PLAN (T = 2'')

(15) SAFETY EDGE - SEE SCD BP-3.2

(1)

(2)

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TIME: 1:13:47 PM\_USER: Active Projecte/District 0/0S

DATE: 6/2/2021

17x11 (in.)

RSIZE:

EL:

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	SL	M	LENGTH	PW
ROUTE	FROM	ТО	(MILES)	(FEET)
SR 93	17.77	18.16	0.39	30
SR 93	18.20	18.22	0.02	30
SR 93	18.22	18.31	0.09	36
SR 93	18.31	18.37	0.06	30
SR 93	18.37	18.53	0.16	38
SR 93	18.53	18.67	0.14	30



# <u>LEGEND</u>

- (1) ITEM 254, PAVEMENT PLANNING, ASPHALT CONCRETE (T=3")
- (2) ITEM 254, PAVEMENT PLANNING, ASPHALT CONCRETE (T=1.25")
- (3) ITEM 254, PAVEMENT PLANNING, ASPHALT CONCRETE (T=2")
- (4) ITEM 407, NON-TRACKING TACK @ 0.06 GAL/SY
- (5) ITEM 407, NON-TRACKING TACK @ 0.09 GAL/SY
- (6) ITEM 408, PRIME COAT, AS PER PLAN @ 0.40 GAL/SY
- (7) ITEM 422, AGGREGATE, SINGLE CHIP SEAL, TYPE A, AS PER PLAN (INTERLAYER)
- (8) ITEM 422, EMULSION, CHIP SEAL @ 0.4 GAL / SY
- (9) ITEM 424, FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B, AS PER PLAN (T=1.25") (TRUCK ADT <1500)
- (10) ITEM 424, FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B, AS PER PLAN (T=1") (TRUCK ADT <1500)
- (11) ITEM 441, ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), AS PER PLAN, PG70-22M, (T=1.25")
- (12) ITEM 441, ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 2, (446), (T=1.75")
- (13) ITEM 441, ASPHALT CONCRETE INTERMEDIATE COURSE, TYPE 1, (448), (T=1")
- (14) ITEM 617, COMPACTED AGGREGATE, AS PER PLAN (T = 2'')
- (15) SAFETY EDGE SEE SCD BP-3.2

TYPICAL SECTION 4

ROUTE	SL	M	LENGTH	PW	1
ROUTE	FROM	TO	(MILES)	(FEET)	1
SR 236	0.00	0.06	0.06	46	1
SR 236	0.06	0.40	0.34	32	1

 $\left(\widehat{A}\right)$  EXISTING ASPHALT SURFACE

 $\left(\begin{array}{c}B\\B\end{array}\right)$  EXISTING BASE

 $(\widehat{c})$  EXISTING ASPHALT SHOULDER

(D) EXISTING CURB



# 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. OHIO811. THE OHIO DEPARTMENT OF TRANSPORTATION DISTRICT 4 HEADQUARTERS (MICHELLE CHANEY AT 330-786-2267) AND ALL NON REGISTERED UTILITY OWNERS AT LEAST TWO (2) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS IN ALL AREAS

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.

# 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.

# PROFILE AND ALIGNMENT

PLACE THE PROPOSED PAVEMENT TO FOLLOW THE ALIGNMENT AND PROFILE OF THE EXISTING PAVEMENT.

# PAVEMENT MARKING LANE WIDTHS

THE NORMAL LANE WIDTH FOR THE PAVEMENT MARKINGS ON THIS PROJECT SHALL BE AS FOLLOWS

ROUTE S.L.M. TO S.L.M. LANE WIDTH SR 93 11.71 TO 19.24 12FT SR 236 0.00 TO 0.06 11FT SR 236 0.06 TO 0.40 16FT

### PAVEMENT MARKING DETAILS

THE PAVEMENT MARKING DETAIL SHEETS WILL BE SUPPLIED TO THE CONTRACTOR AT THE PRE-CONSTRUCTION MEETING. FOR ANY LOCATIONS THAT PAVEMENT MARKING DETAILS ARE NOT BEEN MADE AVAILABLE TO THE CONTRACTOR. IT WILL BE THE CONTRACTORS RESPONSIBILITY TO PUT BACK NEW PAVEMENT MARKINGS IN THE ORIGINAL LOCATIONS.

#### INTERSECTIONS

INTERSECTIONS WILL BE RESURFACED 10 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. A BUTT JOINT, AS PER STANDARD CONSTRUCTION DRAWING BP-3.1. SHALL BE USED TO PROVIDE A SMOOTH TRANSITION TO THE EXISTING PAVEMENT. USE THE SAME ASPHALT CONCRETE AS THE MAINLINE PAVEMENT UNLESS SHOWN OTHERWISE ON THE ASPHALT CONCRETE CALCULATIONS SHEET. 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 MINIMUM WIDTH OF 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.

IN THE EVENT THAT THE ENGINEER DETERMINES ADDITIONAL WORK IS NECESSARY TO PROPERLY ADDRESS FIELD CONDITIONS, AN ITEM FOR WEARING COURSE REMOVED HAS BEEN PROVIDED. THE REMOVAL DEPTH IS DEPENDENT UPON THE ELEVATION DIFFERENCE AND ALLOW FOR 1"-2" OF COMPACTED ASPHALT MATERIAL TO BE PLACED.

# 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 THE PAVING OF THE MAINLINE AND SHOULDERS. PAYMENT SHALL BE AS FOLLOWS: GRADING, TACK, TOOLS, EQUIPMENT, MATERIAL AND INCIDENTALS REQUIRED TO LAYOUT AND CONSTRUCT THE MAILBOX APPROACHES SHALL BE INCLUDED IN THE UNIT BID FOR 441, ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (448) AS PER PLAN, (PG70-22M)



- DIRECTION OF TRAFFIC

#### CURB RAMPS / DETECTABLE WARNINGS

UNLESS OTHERWISE DIRECTED BY THE ENGINEER. INSTALLATION OF THE CURB RAMPS / DETECTABLE WARNINGS WILL BE PERFORMED PRIOR TO MAINLINE RESURFACING.

#### ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (441)

A QUANTITY OF THIS ITEM SHALL BE PROVIDED FOR USE	A
AS DIRECTED BY THE ENGINEER. THE ITEM SHALL CONSIST	Y,
OF REPAIRING EXISTING LOCATIONS EXHIBITING SURFACE	С
DETERIORATION AND PLACING ITEM 441 ASPHALT CONCRETE,	
TYPE 2. THE ASPHALT CONCRETE SHALL BE COMPACTED WITH	
A TYPE I PNEUMATIC TIRE ROLLER AND A STEEL WHEEL	17
ROLLER AS PER 401.13. IT IS NOT THE INTENT TO	
REPAIR EVERY DETERIORATED AREA WITHIN THE PROJECT.	T
PAVEMENT REPAIRS WILL BE MARKED IN THE FIELD BY THE	P
PROJECT ENGINEER ACCORDING TO CMS 251.02. MINIMUM	P
WIDTH IS 2'. UNLESS OTHERWISE DIRECTED BY THE	P
ENGINEER, THIS ITEM SHALL BE PERFORMED AFTER THE	A
COMPLETION OF MAINLINE PAVEMENT PLANING. ALSO, THIS	S
ITEM SHALL COMMENCE WITHIN 5 DAYS OF THE COMPLETION	
OF MAINLINE PAVEMENT PLANING. PAYMENT SHALL BE	
BASED ON THE ACTUAL NUMBER OF SQUARE YARDS OF	11
PAVEMENT REPAIR. THE FOLLOWING	
ESTIMATED QUANTITY HAS BEEN CARRIED TO THE	T
GENERAL SUMMARY:	T
251, PARTIAL DEPTH PAVEMENT REPAIR (441), 1550 SQ. YD.	R
SR 93 SLM 11.71 TO 12.96 250 SQ YD	
SR 93 SLM 12.96 TO 17.20 800 SQ YD	
SR 93 SLM 17.20 TO 17.65 & SLM 19.03 TO 19.24 100 SQ YD	17
SR 93 SLM 17.65 TO 19.03 200 SQ YD	т
SR 236 SLM 0.00 TO 0.40 200 SQ YD	
	70
	S



# ITEM 254 - PAVEMENT PLANNING, ASPHALT CONCRETE, AS PER PLAN

PORTIONS OF THE ROADWAY CONTAIN PORTLAND CEMENT CONCRETE PAVEMENT PATCHES. IN ADDITION TO PAVEMENT PLANING, REMOVE THE CONCRETE PATCHES TO THE SPECIFIED PAVEMENT PLANING DEPTH. THE REMOVED CONCRETE SURFACE SHALL AT A MINIMUM MATCH THE TOLERANCES OF THE MILLED ASPHALT SURFACE AS PER CMS 254.05. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE PLANING OF THE ASPHALT CONCRETE PAVEMENT.

MODIFIED GRADATION SHALL APPLY:

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1.13.58 PM IME TA-93/236-11 71/0 00 Ś

# ITEM 408 - PRIME COAT, AS PER PLAN

PPLY "MC-70" AT A RATE OF 0.4 GALLONS PER SQUARE ARD, OR AS DETERMINED BY THE ENGINEER, TO THE COMPLETED COMPACTED AGGREGATE SHOULDER.

# EM 422 SINGLE CHIP SEAL TIME RESTRICTIONS

HE CONTRACTOR IS REQUIRED TO HAVE A ONE (1) DAY WAITING PERIOD BETWEEN THE TIME THE INTERLAYER CHIP SEAL IS LACED AND THE OVERLYING ASPHALT CONCRETE COURSE IS LACED. AFTER THE WAITING PERIOD. THE CONTRACTOR HAS MAXIMUM OF THREE (3) DAYS TO COVER UP THE CHIP FAI

# EM 422 - AGGREGATE, SINGLE CHIP SEAL, TYPE A, AS PER PLAN

HE REQUIREMENTS OF CMS 422 APPLY EXCEPT AS FOLLOWS: HE SECOND SENTENCE OF CMS 422.01 IS DELETED. THE REQUIREMENTS OF CMS 422.12 ARE DELETED IN THEIR ENTIRETY

# EM 424 - FINE GRADED POLYMER ASPHALT CONCRETE, YPE B. AS PER PLAN

03.05 DO NOT USE ANY 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 441 - ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446) AS PER PLAN, (PG70-22M)

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 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.

EVE	TOTAL PERCENT PASSING
1/2"	100
3/4"	50-100
D. 4	35-70
D. 30	9-33
D. 200	0-13

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GENERAL





# LINEAR GRADING

AREAS WHERE THE SHOULDER IS HIGHER THAN THE EDGE OF PAVEMENT WILL BE GRADED TO PROVIDE POSITIVE DRAINAGE. THIS WORK WILL ONLY BE PERFORMED IN AREAS NECESSARY AND WILL NOT BE PERFORMED ON THE ENTIRE PROJECT. AREAS FOR THE WORK WILL BE MARKED BY THE PROJECT ENGINEER. UNDER NO CIRCUMSTANCES WILL THIS WORK BE PERFORMED CONCURRENTLY WITH ANY OTHER OPERATION

GRADING WILL BE ACCOMPLISHED BY THE REMOVAL OF MATERIAL TO PROVIDE A 0.08 POSITIVE SLOPE. 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 PERMITED 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, 701 STA. 659, SEEDING AND MULCHING, 19477 SQ YD 659. COMMERCIAL FERTILIZER. 2.63 TON 659, LIME, 4.03 ACRES
- 659, WATER, 105.15 M. GAL.

# ITEM 611 – MANHOLE ADJUSTED TO GRADE, AS PER PLAN ITEM 623 - MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN ITEM 638 – VALVE BOX ADJUSTED TO GRADE. AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF CMS 611.10.D FOR MANHOLES, 623.05 FOR MONUMENT BOXES, OR 638.18 FOR VALVE BOXES, THE CONTRACTOR WILL MAKE A CLEAN CIRCULAR CUT AROUND THE CASTING (A MINIMUM OF 1'-0" OUTSIDE THE CASTING) AND REMOVE AND DISCARD THE EXISTING CASTING. INSTALL A NEW CASTING TO GRADE (ACCORDING TO TOLERANCES AS SHOWN ON STANDARD CONSTRUCTION DRAWING BP-3.1) AFTER THE PAVEMENT SURFACE COURSE HAS BEEN REPLACED.

CMS 499 CLASS QCMS CONCRETE (DYE THE CONCRETE SUCH THAT ITS COLOR CLOSELY MATCHES THE COLOR OF THE SURROUNDING PAVEMENT) WILL BE USED FOR BACKFILLING THE FULL PAVEMENT SECTION AND THE JOINT BETWEEN THE ASPHALT AND CONCRETE WILL BE SEALED WITH CMS 702.01 PG BINDER. EPOXY COATED REBAR SHALL BE PLACED IN THE CONCRETE AT 6" MAXIMUM ON CENTER AND A MINIMUM OF 3.5" CLEARANCE FROM THE TOP, BOTTOM AND SIDES. THE CONCRETE WILL BE VIBRATED SUFFICIENTLY TO ELIMINATE AIR POCKETS UNDER THE FRAME.

PAYMENT WILL INCLUDE REMOVAL OF THE EXISTING MATERIAL, INSTALLATION AND FURNISHING OF A NEW CASTING. AND ALL LABOR AND MATERIALS REQUIRED TO COMPLETE THIS ITEM OF WORK AS DESCRIBED.

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY AND IS TO BE USED AS DIRECTED BY THE ENGINEER

# SR 93:

ITEM 611, MANHOLE ADJUSTED TO GRADE, AS PER PLAN, 25 EACH ITEM 623, MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN, 10 EACH ITEM 638, VALVE BOX ADJUSTED TO GRADE, AS PER PLAN, 21 EACH SR 236: ITEM 611, MANHOLE ADJUSTED TO GRADE, AS PER PLAN, 19 EACH ITEM 623, MONUMENT BOX ADJUSTED TO GRADE, AS PER PLAN, 1 EACH ITEM 638, VALVE BOX ADJUSTED TO GRADE, AS PER PLAN, 3 EACH

# ITEM 611 - CATCH BASIN ADJUSTED TO GRADE

THE FOLLOWING QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY AND IS TO BE USED AS DIRECTED BY THE ENGINEER TO ADJUST CATCH BASINS TO GRADE. SR 93: ITEM 611, CATCH BASIN ADJUSTED TO GRADE, 27 EACH SR 236: ITEM 611, CATCH BASIN ADJUSTED TO GRADE, 5 EACH

# ITEM 625 - PULL BOX, MISC .: ADJUSTED TO GRADE

THIS ITEM SHALL BE USED TO ADJUST PULLBOXES TO GRADE WITHIN THE LIMITS OF CURB RAMP REPLACEMENTS. QUANTITIES ARE PROVIDED IN THE CURB RAMP SUBSUMMARIES ON SHEETS P.15 - P.16

#### **RAILROAD CROSSING SIGN & MARKING RELOCATION**

THE ADVANCED RAILROAD CROSSING PAVEMENT MARKINGS AND SIGNS FOR THE NORFOLK SOUTHERN RR CROSSING AT SLM 14.44 ARE TO BE RELOCATED. THE SR 93 SB MARKING AND SIGN (W10-1) SHALL BE RELOCATED FROM SLM 14.59 TO 14.63. NEW RR MARKINGS AND SIGNS SHALL BE PLACED AS PER SCD TC-71.10. RELOCATE CONFLICTING SCHOOL BUS STOP AHEAD SIGN (S3-1) FROM SLM 14.63 TO SLM 14.60.



FOR REMOVAL AND RE-ERECTION OF SIGNS W10-1 AND S3-1 THE FOLLOWING QUANTITY HAS BEEN PROVIDED AND CARRIED TO THE GENERAL SUMMARY.

ITEM 630, REMOVAL OF GROUND MOUNTED SIGN AND REERECCTION. 3 EACH ITEM 630, REMOVAL OF GROUND MOUNTED SUPPORT AND REMOVAL, 3 EACH

ITEM 630, GROUND MOUNTED SUPPORT, NO. 2 POST, 36 FT

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# MAINTENANCE OF TRAFFIC SIGNAL/FLASHER INSTALLATION

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC SIGNAL/FLASHER INSTALLATIONS WITHIN THE PROJECT UNDER THE FOLLOWING CONDITIONS:

- 1. EXISTING SIGNAL/FLASHER INSTALLATIONS WHICH THE PLANS REQUIRE THE CONTRACTOR TO ADJUST, MODIFY, ADD ONTO OR REMOVE, OR WHICH THE CONTRACTOR ACTUALLY ADJUSTS, MODIFIES OR OTHERWISE DISTURBS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ENTIRE INSTALLATION (AT AN INTERSECTION) FROM THE TIME HIS OPERATIONS FIRST DISTURB THE INSTALLATION UNTIL THE INSTALLATION HAS BEEN SUBSEQUENTLY REMOVED OR MODIFIED AND THE WORK IS ACCEPTED.
- 2. NEW OR REUSED SIGNAL/FLASHER INSTALLATIONS OR DEVICES, INSTALLED BY THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE OF THESE FROM THE TIME OF INSTALLATION UNTIL THE WORK IS ACCEPTED.

THE CONTRACTOR SHALL CORRECT AS QUICKLY AS POSSIBLE ALL OUTAGES OR MALFUNCTIONS. HE SHALL PROVIDE THE MAINTAINING AGENCY AND THE ENGINEER SUCH ADDRESSES AND PHONE NUMBERS WHERE HIS MAINTENANCE FORCES CAN BE CONTACTED. THE CONTRACTOR SHALL PROVIDE ONE OR MORE PERSONS TO RECEIVE ALL CALLS AND DISPATCH THE NECESSARY MAINTENANCE FORCES TO CORRECT OUTAGES. SUCH A PERSON OR PERSONS MAY BE USED TO PERFORM OTHER DUTIES AS LONG AS PROMPT ATTENTION IS GIVEN TO THESE CALLS AND A PERSON IS READILY AVAILABLE CONTINUOUSLY 24 HOURS A DAY, 7 DAYS A WEEK. ALL LAMP OUTAGES, CABLE OUTAGES, ELECTRICAL FAILURES, EQUIPMENT MALFUNCTIONS AND MISALIGNED SIGNAL HEADS SHALL BE CORRECTED TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK TO SERVICE WITHIN FOUR HOURS AFTER THE CONTRACTOR HAS BEEN NOTIFIED OF THE OUTAGE.

IN THE EVENT NEW SIGNALS ARE DAMAGED PRIOR TO ACCEPTANCE, ALL DAMAGED EQUIPMENT EXCEPT POLES AND CONTROL EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER WITH THE SIGNAL BACK IN SERVICE WITHIN 8 HOURS AFTER THE CONTRACTOR'S NOTIFICATION OF THE OUTAGE. THE CONTRACTOR SHALL ARRANGE FOR FULL TRAFFIC CONTROL UNTIL THE SIGNAL IS BACK IN OPERATION. IF POLES AND/OR CONTROL EQUIPMENT ARE DAMAGED AND MUST BE REPLACED, THE CONTRACTOR SHALL MAKE TEMPORARY REPAIRS AS NECESSARY TO BRING THE SIGNAL BACK INTO FULL OPERATION WITHIN THE ALLOWED 8-HOUR PERIOD, AND SHALL MAKE PERMANENT REPAIRS OR REPLACEMENT AS SOON THEREAFTER AS POSSIBLE.

NONE OF THE ABOVE SHALL BE CONSTRUED AS COLLECTIVE OR CONSECUTIVE OUTAGE TIME PERIODS AT ANY ONE LOCATION. THAT IS, WHERE MORE THAN ONE OUTAGE OCCURS AT ANY ONE LOCATION THEN THE ALLOTTED TIME LIMIT SHALL BE FOR THE WORST SINGLE OUTAGE.

WHERE OUTAGES ARE THE DIRECT RESULT OF A VEHICLE ACCIDENT THE RESPONSE OF THE CONTRACTOR SHALL BE AS OUTLINED ABOVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COLLECTION OF ANY COMPENSATION FOR THIS WORK FROM THOSE PARTIES RESPONSIBLE FOR THE DAMAGE. WHERE THE CONTRACTOR HAS FAILED TO, OR CANNOT RESPOND TO, AN OUTAGE OR SIGNAL EQUIPMENT MALFUNCTION, AT THESE LOCATIONS WITHIN HIS RESPONSIBILITY, WITHIN PERIODS AS SPECIFIED ABOVE, THE ENGINEER MAY INVOKE THE PROVISIONS OF SECTION 105.15 AND ANY SUBSEQUENT BILLINGS TO THE STATE FOR POLICE SERVICES AND MAINTENANCE SERVICES SHALL BE DEDUCTED FROM MONIES DUE OR TO BECOME DUE THE CONTRACTOR IN ACCORDANCE WITH PROVISIONS OF SECTION 105.15.

THE CONTRACTOR SHALL PROVIDE THE MAINTENANCE SERVICE ENTIRELY WITH HIS FORCES OR HE MAY CHOOSE TO ENTER INTO A COOPERATIVE UNDERSTANDING WITH THE LOCAL MAINTAINING AGENCY TO PROVIDE THE MAINTENANCE. THE CONTRACTOR SHALL INFORM THE ENGINEER, IN WRITING, OF THE MAINTENANCE METHOD SELECTED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY TRAFFIC SIGNAL COMPONENTS REQUIRED TO BE HANDLED DURING THE RELOCATION OF POLES AND REVISIONS TO THE SIGNAL SYSTEM. WHEN A TRAFFIC SIGNAL MUST BE TAKEN OUT OF SERVICE BY THE CONTRACTOR, DUE TO CONST-RUCTION PROCEDURES, THIS OUTAGE SHALL NOT EXCEED 8 HOURS AND SHALL NOT INCLUDE THE HOURS OF 8:00AM TO 6:00PM. ANY SIGNALIZED INTERSECTION, WHERE THE SIGNAL IS OUT OF SERVICE DUE TO CONSTRUCTION PROCEDURES, OR DUE TO AN OUTAGE OR MALFUNCTION OF EQUIPMENT AS DESCRIBED ABOVE, SHALL BE PROTECTED, BY THE CONTRACTOR, BY THE INSTALLATION OF TEMPORARY "STOP" SIGNS.

ANY VEHICULAR TRAFFIC SIGNAL HEAD, EITHER NEW OR EXISTING WHICH WILL BE OUT OF OPERATION SHALL BE COVERED IN THE MANNER DESCRIBED IN 632.25.

THE CONTRACTOR SHALL MAINTAIN COMPLETE RECORDS OF MALFUNCTIONS INCLUDING:

- 1. TIME OF NOTIFICATION OF MALFUNCTION;
- 2. TIME OF WORK CREWS ARRIVAL TO CORRECT THE MALFUNCTION;
- 3. ACTIONS TAKEN TO CORRECT THE MALFUNCTION, INCLUDING A LIST OF PARTS REPAIRED OR REPLACED;
- 4. A DIAGNOSIS OF REASON FOR THE MALFUNCTION AND PROBABILITY OF REOCCURRENCE;
- 5. TIME OF COMPLETION OF THE REPAIR AND SYSTEM RESTORED TO FULL SERVICE.

A COPY OF THESE RECORDS SHALL BE PROVIDED TO THE ENGINEER WITHIN THREE (3) WORKING DAYS FOLLOWING COMPLETION OF EACH REPAIR.

ALL COSTS RESULTING FROM THE ABOVE REQUIREMENTS SHALL BE CONSIDERED TO BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614, MAINTAINING TRAFFIC.

# 809 STOP-LINE RADAR DETECTION, AS PER PLAN 809 ADVANCE RADAR DETECTION, AS PER PLAN

THIS ITEM OF WORK SHALL CONSIST OF FURNISHING AND INSTALLING STOP-LINE RADAR DETECTION - WAVETRONIX SMARTSENSOR MATRIX DETECTION UNIT OR ADVANCE RADAR DETECTION - WAVETRONIX SMARTSENSOR ADVANCE DETECTION UNIT (MODEL SS-200E). THE DETECTION UNIT SHALL INCLUDE THE FOLLOWING:

- 1. POWER SHALL BE PROVIDED FROM THE TRAFFIC CABINET.
- 2. ALL REQUIRED INPUTS CARDS SHALL BE INCLUDED IN THE TRAFFIC CABINET AND SHALL BE COMPATIBLE WITH CALTRANS, NEMA TS1 AND NEMA TS2 DETECTOR RACKS. THE CARDS SHALL PROVIDE TRUE PRESENCE DETECTOR CALLS OR CONTACT CLOSURE TO THE TRAFFIC CONTROLLER.
- 3. THE UNIT SHALL BE MOUNTED DIRECTLY TO A POLE OR MAST ARM, AS RECOMMENDED BY THE MANUFACTURER. CABLE(S) SHALL BE PROVIDED AS REQUIRED AND RECOMMENDED BY THE MANUFACTURER.
- 4. SURGE PROTECTION DEVICES, AS RECOMMENDED BY THE MANUFACTURER SHALL BE INCLUDED BOTH AT THE POLE WHERE THE UNIT IS LOCATED TO PROTECT THE UNIT AND IN THE TRAFFIC CABINET TO PROTECT THE CABINET ELECTRONICS.
- 5. THE MANUFACTURER'S REPRESENTATIVE SHALL BE ON SITE DURING INSTALLATION AND TESTING AND SHALL PROVIDE ONSITE TRAINING ON THE SETUP, OPERATION AND MAINTENANCE OF THE UNIT.
- 6. A SERIAL TO ETHERNET COMMUNICATIONS MODULE AND ETHERNET CABLE (MIN. 7 FEET)
- 7. THE POWER SUPPLY AND COMMUNICATION MODULES SHALL BE SECURED TO A SINGLE PANEL THAT CAN BE MOUNTED INTERIOR TO THE TRAFFIC CABINET. THE PANEL SHALL INCLUDE MODULAR-PLUG STYLE CONNECTIONS FOR UP TO FOUR (4) SENSOR CABLES. ADDITIONAL SENSORS MAY BE HARD-WIRED TO THE COMMUNICATION MODULES, AS NECESSARY.
- 8. THE CONTRACTOR SHALL INSTALL THE RADAR DETECTION PRIOR TO MILLING/DISABLING THE EXISTING LOOPS.
- 9. THE INSTALLATION SHALL INCLUDE ALL CONTROLLER PROGRAMMING FOR COMPLETE INSTALLATION, WHICH INCLUDES MODIFICATIONS FOR REMOVAL OF EXISTING DETECTION.
- 10. THE CONTRACTOR SHALL CONTACT THE DISTRICT OFFICE (330-786-2267) THREE WORKING DAYS PRIOR TO INSTALLING THE DETECTION TO REMOVE THE CABINET LOCKS. ANY LOOPS DETECTORS DISTURBED BY THE PLANNING SHOULD BE ABANDONED IN PLACE.
- 11. THE CONTRACTOR SHALL DISCONNECT AND LEAVE THE LOOP DETECTOR AMPLIFIERS IN THE CONTROLLER.

PAYMENT FOR EACH DETECTION UNIT SHALL BE MADE AT THE CONTRACT UNIT PRICE FOR EACH UNIT, COMPLETE AND IN PLACE INCLUDING ALL REQUIRED CABINET HARDWARE, MOUNTING BRACKETS, CABLES, CONDUIT AND CONNECTIONS TESTED AND ACCEPTED, AND ANY OTHER NECESSARY HARDWARE TO ESTABLISH A FULLY FUNCTIONAL DETECTION SYSTEM.

# THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

INTERSECTION	809- ADVANCE RADAR DETECTION, AS PER PLAN	ADVANCE RADAR APPROACH	809- STOP LINE RADAR DETECTION, AS PER PLAN	STOP LINE RADAR APPROACH
SR 93/SR 172			2	NB, SB SR 93

....

THE CONTRACTOR SHALL CONTACT THE CITY OF MASSILLON (330-833-5746) THREE WORKING DAYS PRIOR TO ANY PLANING OR TRENCHING AT THE INTERSECTION OF SR 236 AND SR 21 / LAKE AVE. LOOP DETECTORS DISTURBED BY PAVEMENT PLANING OR TRENCHING SHALL BE ABANDONED IN PLACE. THE LOOP DETECTOR WIRE WILL BE CUT INTO THE PAVEMENT AFTER THE PROPOSED SURFACE COURSE HAS BEEN PLACED. ALL STOP LINE INDUCTANCE DETECTOR LOOPS SHALL BE THE POWERHEAD CONFIGURATION SHOWN ON TC-82.10. THE WIDTH SHALL BE AS SPECIFIED ON TC-82.10 AND THE LENGTH SHALL BE AS SPECIFIED BELOW. THE LOCATION OF THESE LOOPS SHALL BE SUCH THAT THE POWERHEAD IS LOCATED AT THE STOP LINE, NOT PAST IT. ALL DILEMMA ZONE INDUCTANCE DETECTOR LOOPS CALLED FOR IN THE PLANS SHALL BE THE ANGULAR DESIGN DETECTION (ADD) LOOP AS SHOWN ON TC-82.10. DIMENSIONS SHALL BE AS SPECIFIED ON TC-82.10 AND THE LOOP SHALL BE PLACED AT THE SAME LOCATION AS THE EXISTING LOOPS. THE QUANTITIES LISTED BELOW HAVE BEEN CARRIED TO THE GENERAL

THE QUANTITIES LISTED BELOW HAVE BEEN CARRIED TO THE GENERAL SUMMARY. THE NEW LOOP DETECTOR WIRES SHALL BE RUN INTO THE EXISTING CONTROL BOX OR THE EXISTING PULLBOX. INCLUDED IN THIS ITEM IS THE POURED EPOXY TYPE CABLE SPLICE KIT (CONFORMING TO 725.15E) THAT MUST BE USED IN MAKING THESE CONNECTIONS. ALL NECESSARY MATERIAL, LABOR, SPLICE KITS AND EQUIPMENT SHALL BE INCIDENTAL TO PAYMENT OF THESE ITEMS.

# ITEM 632 - DETECTOR LOOP, AS PER PLAN

632 DETECTOR LOOP, AS PER PLAN, 6 EACH (6 EACH, POWERHEAD, BY 30') **GENERAL NOTES** 



# 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:

#### 1. SR 93 & 236:

A MINIMUM OF ONE TEN FOOT BIDIRECTIONAL LANE SHALL BE MAINTAINED ON THE EXISTING PAVEMENT OR COMPLETED PAVEMENT DURING CONSTRUCTION OF THE WORK.

### SR 236 SI M 0 00 TO 0 06.

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.

2 THE CONTRACTOR SHALL INFORM THE DISTRICT OFFICE (330) 786-2208, EIGHTEEN (18) DAYS PRIOR TO THE BEGINNING OF WORK

3. 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

4. TRUCK MOUNTED ATTENUATORS [TMA'S] SHALL BE USED AS SHOWN IN THE STANDARD CONSTRUCTION DRAWINGS.

5. 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.

6. FOR ROUTES NOT ON THE PERMITTED LANE CLOSURE CHART, 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.

7. 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.

8. A QUANTITY OF 10 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.

9. 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.

10. THE CONTRACTOR SHALL PLACE THE SIGNS: W8-1 [BUMP] PER OMUTCD 2C.28; W8-11 [UNEVEN LANES] PER OMUCTD 6F.45; AND W6-3 [TWO-WAY TRAFFIC] PER OMUTCD 6F.32. PAYMENT FOR THESE SIGNS SHALL BE INCIDENTAL TO THE LUMP SUM ITEM 614-MAINTAINING TRAFFIC. A QUANTITY OF ITEM 614 WORK ZONE MARKING SIGNS HAS BEEN INCLUDED IN THE PLANS PER CMS 614.04.

SIGNS W8-H7 ILOOSE GRAVEL/ FRESH TARI. AND W13-1 [SPEED PLAQUE] SHALL BE PLACED PER STANDARD CONSTRUCTION DRAWING MT-97.12 (MT-97.11), AND PAYMENT FOR THESE SIGNS SHALL BE INCIDENTAL TO THE LUMP SUM ITEM 614- MAINTAINING TRAFFIC. A QUANTITY OF ITEM 614 WORK ZONE MARKING SIGNS HAS BEEN INCLUDED IN THE PLANS PER CMS 614.04.

11. THE CONTRACTOR SHALL SET A WORK ZONE AT THE REQUEST OF THE ENGINEER TO ALLOW THE LAYOUT OF THE PARTIAL/FULL DEPTH PAVEMENT REPAIR AREAS. THIS WORK IS INCIDENTAL TO ITEM 614 MAINTAINING TRAFFIC.

THE FOLLOWING QUANTITIES SHALL BE USED FOR THE MAIN-TENANCE OF TRAFFIC ON THIS PROJECT:

#### PHASE I - PLANNED SURFACE

614, WORK ZONE MARKING SIGN, 50 EACH (ALL PHASES) 614, WORK ZONE CENTER LINE, CLASS I, 8.17 MILE 614. WORK ZONE LANE LINE, CLASS J. 6", 0.12 MILE 614, WORK ZONE STOP LINE, CLASS I, 327 FT 614, WORK ZONE CHANNELIZING LINE, CLASS I, 8", 1202 FT

PHASE II - CHIPSEAL INTERLAYER SR 93 SLM 11.71 TO SLM 12.96: 614, WORK ZONE CENTER LINE, CLASS I, 642 PAINT, 1.43 MILE 614, WORK ZONE STOP LINE, CLASS I, 642 PAINT, 13 FT

614. WORK ZONE CHANNELIZING LINE. CLASS I. 8" 642 PAINT. 275 FT

PHASE III - INTERMEDIATE COURSE

- SR 93 SLM 11.71 TO SLM 12.96
- 614, WORK ZONE CENTER LINE, CLASS I, 642 PAINT, 1.43 MILE
- 614. WORK ZONE STOP LINE. CLASS I. 642 PAINT. 13 FT

614, WORK ZONE CHANNELIZING LINE, CLASS I, 8", 642 PAINT, 275 FT SR 236 SLM 0.00 TO SLM 0.40:

- 614, WORK ZONE CENTER LINE, CLASS I, 642 PAINT, 0.40 MILE
- 614, WORK ZONE LANE LINE, CLASS I, 6", 642 PAINT, 0.12 MILE
- 614, WORK ZONE STOP LINE, CLASS I, 642 PAINT, 71 FT 614, WORK ZONE CHANNELIZING LINE, CLASS I, 8", 642 PAINT, 260 FT

#### PHASE IV - SURFACE COURSE

614, WORK ZONE CENTERLINE, CLASS III, 642 PAINT 8.17 MILE 614, WORK ZONE LANE LINE, CLASS III, 6", 642 PAINT 0.12 MILE 614. WORK ZONE STOP LINE, CLASS III, 642 PAINT 327 FT 614, WORK ZONE CHANNELIZING LINE, CLASS III, 8", 642 PAINT 1202 FT

TO BE USED AS DIRECTED BY THE ENGINEER 614, WORK ZONE EDGE LINE, CLASS III, 6", 642 PAINT, 13.38 MILE

#### 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.

#### 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 REP-RESENTATIVE SHALL ALSO BE AVAILABLE ON AN AROUND THE CLOCK BASIS TO REPAIR AND/OR REPLACE DAMAGED OR MISS-ING 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 MAY HAVE OTHER CONSTRUCTION RELATED DUTIES AS LONG AS IMMEDIATE ATTENTION IS GIVEN TO TRAFFIC CONTROL. PAYMENT FOR THE SERVICES OF THE TRAFFIC CONTROL INSPECTOR SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

# TIME LIMITATION, TRAFFIC ON A MILLED SURFACE

SR 93 SLM 12.96 TO 19.24 & SR 236 SLM 0.00 TO 0.40: THE MAXIMUM ALLOWABLE TIME FOR TRAFFIC TO BE PLACED ON A MILLED SURFACE SHALL BE 5 CONSECUTIVE CALENDAR DAYS. SHOULD THE CONTRACTOR FAIL TO MEET THIS REQUIREMENT, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN THE AMOUNT OF \$1000 PER DAY THAT THE TRAFFIC IS PLACED ON A MILLED SURFACE BEYOND THE SPECIFIED LIMIT.

#### DROPOFFS

THE CONTRACTOR WILL NOT BE PERMITTED TO LEAVE A DIFFERENCE IN ELEVATION BETWEEN THE MAINLINE MILLED SURFACES, AND ASPHALT SURFACE COURSE AND SIDE STREET APPROACHES/DRIVEWAYS TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME GREATER THAN 1.25 INCH. THE CONTRACTOR SHALL PLACE A 12:1 ASPHALT WEDGE FOR ALL RESULTING ELEVATION DIFFERENCES GREATER THAN 1.25 INCH PRIOR TO OPENING TO TRAFFIC. THE PAVING OF INTERSECTION APPROACHES AND DRIVEWAYS, PER THE NOTES ON SHEET 4, SHALL BE PERFORMED WITHIN 7 DAYS OF MAINLINE SURFACE COURSE BEING APPLIED AND A DROPOFF BEING CREATED BETWEEN THE NEW SURFACE COURSE AND THE MILLED/EXISTING SIDE ROAD OR DRIVEWAY SURFACE. THE CONTRACTOR MAY ELECT TO PLACE A 12:1 ASPHALT WEDGE IN LIEU OF COMPLETING THE PAVING, HOWEVER THE ASPHALT CONCRETE USED FOR THE WEDGE SHALL BE CONSIDERED INCIDENTAL TO ITEM 614 - MAINTAINING TRAFFIC AND SHALL INCLUDE THE REMOVAL OF THE WEDGE BEFORE THE INTERSECTION/DRIVEWAY IS PAVED.

# ITEM 614, MAINTAINING TRAFFIC (WINTER TIME LIMITATIONS)

ALL EXISTING LANES. INCLUDING RAMPS. SHALL BE OPEN AND AVAILABLE TO TRAFFIC IN THE ORIGINAL OR PROPOSED FINAL ALIGNMENT BETWEEN [OCTOBER 15] AND [APRIL 1]. SHOULD THE CONTRACTOR FAIL TO MEET THESE REQUIREMENTS, A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT OF \$1000 PER CALENDAR DAY.

INFORMATION SHOULD INCLUDE, BUT IS NOT LIMITED TO, ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHALL LIST THE SPECIFIC LOCATION, TYPE OF WORK. ROAD STATUS. DATE AND TIME OF RESTRICTION. DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, NUMBER OF LANES CLOSED, MINIMUM VERTICAL CLEARANCE, MINIMUM WIDTH OF DRIVABLE PAVEMENT, DETOUR ROUTES, IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

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CON TRA ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TABLE.

NO WORK SHALL BE PERFORMED, AND ALL EXISTING LANES SHALL BE OPEN DURING THE FOLLOWING DESIGNATED SPECIAL EVENTS:

CANAL FULTON, OLDE CANAL DAYS FESTIVAL CLAY'S PARK RESORT, THE COUNTRY FEST

# NOTIFICATION OF TRAFFIC RESTRICTIONS

THROUGHOUT THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW TO INFORM THE SPECIAL HAULING PERMITS SECTION (HAULING.PERMITS@DOT.OHIO.GOV) AND THE DISTRICT PUBLIC INFORMATION OFFICE (PIO). THIS NOTIFICATION SHALL BE RECEIVED BY THE PROJECT ENGINEER PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

	NOTIFICATION TIME TABLE												
ITEM	DURATION OF CLOSURE	NOTICE DUE TO PERMITS & PIO											
	>= 2WEEKS	21 CALENDAR DAYS PRIOR TO CLOSURE											
	> 12 HOURS & < 2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE											
CLOSORES	<12 HOURS	4 BUSINESS DAYS PRIOR TO CLOSURE											
	>=2 WEEKS	14 CALENDAR DAYS PRIOR TO CLOSURE											
ESTRICTIONS	< 2 WEEKS	5 BUSINESS DAYS PRIOR TO CLOSURE											
	•												
START OF NSTRUCTION & FFIC PATTERNS CHANGES	N/A	14 CALENDAR DAYS PRIOR TO IMPLEMENTATION											

# LOCAL SPECIAL EVENTS AND FESTIVALS

THE CONTRACTOR SHALL HAVE THE ALL LANES OPEN BEGINNING 2:00PM THE DAY BEFORE THE EVENT STARTS UNTIL 6:00AM THE MORNING AFTER THE EVENT ENDS. IN THE CASE OF AN EVENT THAT IS FOR THE DURATION OF A WEEKEND, ALL LANES SHALL BE OPEN BY 2:00PM THE FRIDAY BEFORE THE EVENT AND WILL REMAIN OPEN UNTIL AT LEAST 6:00 AM ON THE MONDAY AFTER THE EVENT. SHOULD THE CONTRACTOR FAIL TO HAVE THE LANES OPEN AS DESCRIBED ABOVE. A DISSINCENTIVE PENALTY WILL BE ASSESSED IN THE AMOUNT OF \$3,000 PER HOUR THAT A LANE REMAINS CLOSED. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY WITH THE LOCAL COMMUNITY THE EXACT DATES OF THE LISTED SPECIAL EVENTS.



# ITEM 614 - LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE DURING CONSTRUCTION OPERATIONS

USE OF LAW ENFORCEMENT OFFICERS (LEOS) BY CONTRACTORS OTHER THAN THE USES SPECIFIED BELOW WILL NOT BE PER-MITTED AT PROJECT COST. LEOS SHOULD NOT BE USED WHERE THE OMUTCD INTENDS THAT FLAGGERS BE USED.

IN ADDITION TO THE REQUIREMENTS OF CMS 614 AND THE OMUTCD, A UNIFORMED LEO WITH AN OFFICIAL PATROL CAR (CAR WITH TOP-MOUNTED EMERGENCY FLASHING LIGHTS AND COMPLETE MARKINGS OF THE APPROPRIATE LAW ENFORCE-MENT AGENCY) SHALL BE PROVIDED FOR THE FOLLOWING TRAFFIC CONTROL TASKS:

DURING THE ENTIRE ADVANCE PREPARATION AND CLOSURE SEQUENCE WHERE COMPLETE BLOCKAGE OF TRAFFIC IS REQUIRED.

DURING A TRAFFIC SIGNAL INSTALLATION WHEN IMPACTING THE NORMAL FUNCTION OF THE SIGNAL OR THE FLOW OF TRAFFIC OR WHEN TRAFFIC NEEDS TO BE DIRECTED THROUGH AN ENERGIZED TRAFFIC SIGNAL CONTRARY TO THE SIGNAL DISPLAY (E.G., DIRECTING MOTORISTS THROUGH A RED LIGHT).

FOR LANE CLOSURES: DURING INITIAL SET-UP PERIODS, TEAR DOWN PERIODS, SUBSTANTIAL SHIFTS OF A CLOSURE POINT OR WHEN NEW LANE CLOSURE ARRANGEMENTS ARE INITIATED FOR LONG-TERM LANE CLOSURES/SHIETS (FOR THE FIRST AND LAST DAY OF MAJOR CHANGES IN TRAFFIC CONTROL SETUP).

LEOS SHOULD NOT FORGO THEIR TRAFFIC CONTROL RESPONSI-BILITIES TO APPREHEND MOTORISTS FOR ROUTINE TRAFFIC VIOLATIONS. HOWEVER, IF A MOTORIST'S ACTIONS ARE CON-SIDERED TO BE RECKLESS, THEN PURSUIT OF THE MOTORIST IS APPROPRIATE.

IN GENERAL LEOS SHOULD BE POSITIONED IN ADVANCE OF AND ON THE SAME SIDE AS THE LANE RESTRICTION OR AT THE POINT OF ROAD CLOSURE, AND TO MANUALLY CONTROL TRAFFIC MOVEMENTS THROUGH SIGNALIZED INTERSECTIONS IN WORK ZONE.

THE LEOS WORK AT THE DIRECTION OF THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR SECURING THE SERVICES OF THE LEOS WITH THE APPROPRIATE AGENCIES AND COM-MUNICATING THE INTENTIONS OF THE PLANS WITH RESPECT TO DUTIES OF THE LEOS. THE ENGINEER SHALL HAVE FINAL CONTROL OVER THE LEOS' DUTIES AND PLACEMENT, AND WILL RESOLVE ANY ISSUES THAT MAY ARISE BETWEEN THE TWO PARTIES

THE LEO SHALL REPORT IN TO THE CONTRACTOR PRIOR TO THE START OF THE SHIFT. IN ORDER TO RECEIVE INSTRUCTIONS REGARDING SPECIFIC WORK ASSIGNMENTS DURING HIS/HER SHIFT. THE LEO IS EXPECTED TO STAY AT THE PROJECT SITE FOR THE ENTIRE DURATION OF HIS/HER SHIFT. THE LEO SHALL REPORT TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT. ONCE THE LEO HAS COMPLETED THE DUTIES DESCRIBED ABOVE AND STILL HAS TIME REMAINING ON HIS/HER SHIFT. THE LEO MAY BE ASKED TO PATROL THROUGH THE WORK ZONE (WITH FLASHING LIGHTS OFF) OR BE PLACED AT A LOCATION TO DETER MOTORISTS FROM SPEEDING. SHOULD IT BE NECESSARY TO LEAVE THE PROJECT SITE, THE LEO SHALL NOTIFY THE ENGINEER. THE CONTRACTOR SHALL PROVIDE THE LEO WITH A TWO-WAY COMMUNICATION DEVICE WHICH SHALL BE RE-TURNED TO THE CONTRACTOR AT THE END OF HIS/HER SHIFT.

LEOS (WITH PATROL CAR) REQUIRED BY THE TRAFFIC MAINT-ENANCE TASKS ABOVE SHALL BE PAID FOR ON A UNIT PRICE (HOURLY) BASIS UNDER ITEM 614. LAW ENFORCEMENT OFFICER (WITH PATROL CAR) FOR ASSISTANCE. THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY.

ITEM 614, LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE 72 HOURS

THE HOURS PAID SHALL INCLUDE ANY MINIMUM SHOW-UP TIME REQUIRED BY THE LAW ENFORCEMENT AGENCY INVOLVED.

ANY ADDITIONAL COSTS (ADMINISTRATIVE OR OTHERWISE) IN-CURRED BY THE CONTRACTOR TO OBTAIN THE SERVICES OF AN LEO ARE INCLUDED WITH THE BID UNIT PRICE FOR ITEM 614. LAW ENFORCEMENT OFFICER WITH PATROL CAR FOR ASSISTANCE.

# ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGNS, AS PER PLAN

THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE, WHEN NO LONGER NEEDED, A CHANGEABLE MESSAGE SIGN. THE SIGN SHALL BE OF A TYPE SHOWN ON A LIST OF APPROVED PCMS UNITS AVAILABLE ON THE OFFICE OF MATERIALS MANAGEMENT WEB PAGE. THE LIST CONTAINS CLASS A AND B UNITS WITH MINIMUM LEGIBILITY DISTANCES OF 800 FEET AND 650 FEET, RESPECTIVELY.

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

PLACEMENT, OPERATION, MAINTENANCE AND ALL ACTIVATION OF THE SIGNS BY THE CONTRACTOR SHALL BE AS DIRECTED BY THE ENGINEER. THE PCMS SHALL BE LOCATED IN A HIGHLY VISIBLE POSITION YET PROTECTED FROM TRAFFIC. THE CONTRACTOR SHALL, AT THE DIRECTION OF THE ENGINEER, RELOCATE THE PCMS TO IMPROVE VISIBILITY OR ACCOMMODATE CHANGED CONDITIONS. WHEN NOT IN USE, THE PCMS SHALL BE TURNED OFF. ADDITIONALLY. WHEN NOT IN USE FOR EXTENDED PERIODS OF TIME, THE PCMS SHALL BE TURNED AWAY FROM ALL TRAFFIC.

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

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

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

PAYMENT FOR THE ABOVE DESCRIBED ITEM SHALL BE AT THE CONTRACT UNIT PRICE. PAYMENT SHALL INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, FUELS, LUBRICATING OILS, SOFTWARE, HARDWARE AND INCIDENTALS TO PERFORM THE ABOVE DESCRIBED WORK.

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

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

ITEM 614, PORTABLE CHANGEABLE MESSAGE SIGN, AS PER PLAN 12 SIGN MONTH ASSUMING 2 PCMS SIGN(S) FOR 6 MONTH(S)

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		SHEET NUM.										PART.				ITEM GRAND				
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	1,550		40 700		00.045				250		800	100	10.015	200	200	251	01000	1,550	SY	PARTIAL DEPTH PAVEMENT REPA
			19,798	53,783	22,015	0.000				0.000	65,789	11,192	18,615			254	01000	95,596	SY	PAVEMENT PLANING, ASPHALT C
			21.467			8,269			21 150	8,269						254	01000	8,209	ST	PAVEMENT PLANING, ASPHALT C
			21,407		6 865				21,130	517			6 865			254	01000	6 865	SY	PAVEMENT PLANING, ASPHALT C
					0,000								0,000			204	01001	0,000	01	
			5,002	4,841	2,600	1,242			3,173	1,288	5,922	1,008	2,294			407	20000	13,685	GAL	NON-TRACKING TACK COAT
			2,385	3,098	648	,			1,155	19	3,942	564	451			408	10001	6,131	GAL	PRIME COAT, AS PER PLAN
			21,467						21,150	317						422	11001	21,467	SY	AGGREGATE, SINGLE CHIP SEAL,
	ugh		8,599						8,472	127						422	25000	8,599	GAL	EMULSION, CHIP SEAL
	001.c		700	1,891	1,006	230				230	2,319	390	888			424	12001	3,827	CY	FINE GRADED POLYMER ASPHAL
	8		740						705	44						444	40404	740	01	
	1417		1 044						1 028	11						441	10101	1 044		
	ats/10		1,044			230			1,020	230						441	50200	230	CY	
	Shee					200	21			200				21		609	26000	200	FT	CURB. TYPE 6
	1way'		332	431	90				161	3	547	79	63			617	10101	853	CY	COMPACTED AGGREGATE, AS PE
	Road																			
	ering		1.28	2.92							4.2					618	43000	4.2	MILE	RUMBLE STRIPES, CENTER LINE (
	dine		6,812	15,365							22,177					874	20000	22,177	FT	LONGITUDINAL JOINT PREPARATIO
	117/4						3							3		638	10800	3	EACH	
5	V1017	24					5			3			21	5		638	10801	24	FACH	VALVE BOX ADJUSTED TO GRADE
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DESCRIPTION	SEE SHEET NO.	
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CONCRETE (T=1.25")		¶ ₹
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CONCRETE, AS PER PLAN, (T=1.25")	4	
		U U
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, TYPE A, AS PER PLAN	4	
T CONCRETE, TYPE B, AS PER PLAN	4	
COURSE, TYPE 1, (446), AS PER PLAN, PG70-22M	4	
ATE COURSE, TYPE 2, (446)		
ATE COURSE, TYPE 1, (448)		
ER PLAN	4	
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WATER WORK	_	
- AS PER PLAN	5	
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		DESIGN AGENCY
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					SHEET	Γ NUM.						PA	RT.				ITEM	GRAND		
				1			1	1		01/S>2/P	02/S>2/P	03/STR/P			06/STR/B	ITEM			UNIT	D
				5	6	7	8	22	23	V V	V/MASS	V	V	V/CANE	R		EXT	TOTAL		
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				36								30				630	02100	30	FI	GROUND MOUNTED SUPPORT, NO. 2 POST
				3								3				630	85100	3	EACH	REMOVAL OF GROUND MOUNTED SIGN AN
				3								3				630	86002	3	EACH	REMOVAL OF GROUND MOUNTED POST SU
									13.44	2.46	0.04	8.48	1.32	1.08	0.06	646	10010	13.44	MILE	EDGE LINE, 6"
									0.12		0.12					646	10110	0.12	MILE	LANE LINE, 6"
									8.2	1.42	0.42	4.23	0.66	1.44	0.03	646	10200	8.2	MILE	CENTER LINE
									1,202	275	260		252	415		646	10300	1,202	FT	CHANNELIZING LINE, 8"
									327	13	71	20	76	147		646	10400	327	FT	STOP LINE
									1,074		428			646		646	10500	1,074	FT	CROSSWALK LINE
									100					100		646	10600	100	FT	TRANSVERSE/DIAGONAL LINE
									148				148			646	10620	148	FT	CHEVRON MARKING
									4			2		2		646	20000	4	EACH	RAILROAD SYMBOL MARKING
									2	2						646	20110	2	EACH	SCHOOL SYMBOL MARKING, 96"
									21	4	10			7		646	20300	21	EACH	LANE ARROW
									360	260				100		646	20500	360	FT	
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	Б						72			72						614	11110	72	HOUR	LAW ENFORCEMENT OFFICER WITH PATRO
	01.d					50				50						614	12460	50	EACH	WORK ZONE MARKING SIGN
						10				10						614	13000	10	CY	ASPHALT CONCRETE FOR MAINTAINING TR
	17_0						12			12						614	18601	12	SNMT	PORTABLE CHANGEABLE MESSAGE SIGN,
	014					0.12					0.12					614	20010	0.12	MILE	WORK ZONE LANE LINE, CLASS I, 6"
	ets/1																			······································
	Shee					0.12					0.12					614	20110	0.12	MILE	WORK ZONE LANE LINE CLASS L 6" 642 P
	vay					0.12					0.12					614	20560	0.12	MILE	WORK ZONE LANE LINE, CLASS III, 6", 642 F
	oad					8.17				1 4 1	0.12	4 24	0.66	1 44		614	21000	8.12	MILE	WORK ZONE CENTER LINE, CLASS I
	g/R					1 02				1.41	0.42	4.24	0.00	1.44		614	21000	1 02		WORK ZONE CENTER LINE, CLASS I 642 D/
	erin					1.83				1.41	0.42	4.04	0.00	4.44		614	21100	1.83	MILE	WORK ZONE CENTER LINE, CLASS I, 642 PA
	ubu					8.17				1.41	0.42	4.24	0.66	1.44		614	21550	8.17	MILE	WORK ZONE CENTER LINE, CLASS III, 642 P
	Ш 20-Ш					10.04	I		I	2.40	0.04	0.40	4.00	0.54	L	614	22200	10.04		
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	ss1 014					1,202	I		I	275	260		252	415		614	23000	1,202		WORK ZONE CHANNELIZING LINE, CLASS I,
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	il/Sta					1,202				275	260		252	415		614	23690	1,202	FT	WORK ZONE CHANNELIZING LINE, CLASS III
	ct 04					327				13	71	20	76	147		614	26000	327	FT	WORK ZONE STOP LINE, CLASS I
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ESCRIPTION	SEE SHEET NO.	
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		17	22 Endling Ave	(SLM 11.92)									a de la de l	Sippo Valley Itali Si	1. (SLM, 12.96) (SLM, 12.96)						
	93 BEGIN PROJECT SR 93 SLM 11.71					We	odforest St NW	W WOODSTONE AVE (SLM 12.35)	C Some	SIPPO RESERVES DR (SLM 12.55)	SIPPO RESERVES DR (SLM 12.70) CLOVERLEAF ST (SLM 12.70) BIKEWAY (SLM 12.92) BIKEWAY (SLM 12.92)										
	W								ţ,	202	Hipha St NW	254	254	407	407	408	422	422	424	441	441
neering\Roadway\Sheets\101417_GC001.dgn	SI	.M RAN	GE	TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DxW/9	CADD GENERATED AREA	WEARING COURSE REMOVED	PREPARING SUBGRADE FOR SHOULDER PAVING	PAVEMENT PLANING, ASPHALT CONCRETE, (T=3")	PAVEMENT PLANING, ASPHALT CONCRETE, (T=1.25")	NON-TRACKING TACK COAT @	NON-TRACKING TACK COAT @	PRIME COAT, AS PER PLAN @	AGGREGATE, SINGLE CHIP SEAL, TYPE A, AS PER PLAN (INTERLAYER)	EMULSION, CHIP SEAL @ 0.4 GAL / SY	FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B, i AS PER PLAN (T=1.25")	ASPHALT CONCRETE SURFACE COURSE, TYPE 1, (446), AS PER PLAN, PG70-22M, (T=1.25")	ASPHALT CONCRETE NTERMEDIATE COURSE, TYPE 2
\400-Eng	SR 93	MAJOR	REHAB			FT	FT	SY	SY	SY	STA	SY	SY	GAL	GAL	GAL	SY	GAL	CY	CY	CY
ss1 //101417	11.71 12.50	TO TO	12.50 12.78	1		4171.20	26.00 38.00	12050.13			42.00 15.00	12050.13 6242 13		1084.51	723.01	741.55	12050.13 6242.13	4820.05 2496.85		418.41	585.7 303 4
ER. bro: )4\Stark'	12.78	ТО	12.91	1		686.40	27.00	2059.20			7.00	2059.20		185.33	123.55	122.03	2059.20	823.68		71.50	100.1
DM US	12.91	TO	12.93	1		105.60	27.00	316.80 475.20			2.00	316.80 475.20		28.51 42.77	28.51	28.16	316.80 475.20	126.72		16.50	23.10
14.56 I ojects\E	SR 93		DLYMER	2		6811 20	26.00	19676 80					19676 80	1770 01		1210 88			683 22		
IME 1 tive Pro	12.90		14.25	2		0011.20	20.00	19070.80					19070.80	1770.91		1210.00			065.22		
2021 T s\01 Ac	INTE	BSECT	IONS																		
E. 6/2/	11.71	ТО	12.96	1		10.00	VARIES		322.86			322.86		29.06	19.37		322.86	129.14		11.21	15.69
DAT 02\Doc	12.96	то	14.25	2		10.00	VARIES		120.82				120.82	10.87					4.20		
(11 (in ) dot pw	DF		YS															. = -			
E: 17x m:ohio	11.71 12.96	TO TO	12.96 14.25			2.00	VARIES		94.00 84.00	94.00 84.00								4.70	4.20		
PERSI:																					
et PAF ow.ben	MAILBO 11.71	X APPR	UACHES 12.96						123.00									6.83			<u> </u>
L. She lodot-p	12.96	TO	14.25						139.00										7.72		
MODE pw:\\oh						TOTALS CAP		SU SENERAL S	BTOTALS	178.00 178	68.00 68	21466.32	19797.62 19798	3713.76	1287.98 1288	2384.21	21466.32	8598.06 8599	699.34 700	745.36	1043.5
	l									175		21701	10100		1 1200	2000	21707	0000	,		L 1044



	MATCHLII SR 93 SLI	NE M 14.25	ORFOLK SOUTHERN RR (SLM 14.46)			TOP O HILL (SLM 14.97)					SOUSA ST (SLM 15.59)	<u> </u>	93				GADD/S ST (SLM 16.30)		Contract of Contra		
	93		SUSPEND PA STRUCTURE RESUME PAV	VING SL STA-93- ING SLM	M 14.43 1444 A 14.45		ORRVILLE ST (SLM 15.03)		Penbro	*9		Pendroot -	PATTERSON RD (SI M. L.	Clays Park Pond	Fox R		SUSPEND STRUCTUR RESUME F	PAVING SLM RE STA-93-1 PAVING SLM	1 16.39 639 16.41		21
Engineering\Roadway\Sheets\101417_GC001.dgn	SLI	M RAN	IGE	TYPICAL SECTION	SIDE	DISTANCE (D)	AVERAGE WIDTH (W)	SURFACE AREA (A) A=DXW/9	CADD GENERATED AREA	202 MEARING COURSE REMOVED	<ul> <li>PAVEMENT PLANING, ASPHALT R</li> <li>CONCRETE, (T=1.25")</li> </ul>	D NON-TRACKING TACK COAT @ 4 0.09 GAL/SY	PRIME COAT, AS PER PLAN @ 805 0.4 GAL/SY	FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B, F5 AS PER PLAN (T=1.25")	COMPACTED AGGREGATE, AS 9 PER PLAN (T=2")	RUMBLE STRIPES, CENTER LINE 9 (ASPHALT CONCRETE) 81	PREPARATION				
1 1417\400	14.25	SR 93	14.43	2		950.40	26.00	2745.60			2745.60	247.10	168.96	95.33	23.47	0.18	950.40				
R: bross tark/101	14.45	TO	16.39	2		10243.20	26.00	29591.47			29591.47	2663.23	1821.01	1027.48	252.92	1.94	10243.20				
I USEF ct 04\S	17.06	TO	17.20	2		739.20	45.00	3696.00			3696.00	332.64	131.41	128.33	18.25	0.65	739.20				
04 PN \$∖Distri	17.20	TO	17.23	2		158.40	45.00	792.00			792.00	71.28	28.16	27.50	3.91						
E. 1.15 Project:	17.40	TO	17.65	2		1320.00	25.00	3666.67			3666.67	330.00	234.67	127.31	32.59						
ctive F																					
2/2021 \$\01 At	INTEI		17 20	2		10.00			424 76		424 76	38.23		14 75							
IE: 6/2 iments	17.20	TO	17.65	2		10.00	VARIES		429.00		429.00	38.61		14.75							
DAT 2\Docu																					
1 (in ) pw-02	DRI		17 20			2 00			140.00	1/10 00				7.00							
17x1 hiodot	17.20	TO	17.65			2.00	VARIES		6.00	6.00				0.30						<u> </u>	
RSIZE com:of																					
PAPE ∍ntley.	MAILBOX 14 25		IT 20						278 00					15 44							
eet 2 pw.be	17.20	TO	17.65						12.00					0.67							
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10DE w:\\of					1			SU FNFRAL S	UMMARY	146.00 146	53782.82	4840.45 4841	3097.60	1890.87 1801	430.22 431	2.92 2.92	15364.80	0.00	0.00	0.00	0.00
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	CANAL FULTOR SR 93 SLM 17.6	N CORP 55 STONEW	herry St V 93 PMUERUIEN ST CEN 1 93 PMUERUIEN ST CEN 1 93 PMUERUIEN ST CEN 1 1 93 PMUERUIEN ST CEN 1 93 PMUERUIEN ST CEN 1 93 PMUERUIEN ST CEN 1 93 PMUERUIEN ST CEN 1 93 PMUERUIEN ST CEN 1 94 PMUERUIEN ST	And the second s	Baylor Pl	AST SUNT. 3. 4. 5. Jone PI SUSF STRU RESU	6. 7. PEND PAVIN ICTURE STA IME PAVING	8. G SLM 18.16 A-93-1816 S SLM 18.20	(21.81 WTS) BA NAMAN CANADA BA	Ohio Canal St 2 10. White Ave	Wolnut S II. II2. Norte Porak	Water St S	Market S.	16.	-93-	SUSPENI	STEINER ST (SLM 18.75) STEINER ST (SLM 18.75)	BUTT JOH PAVING AT D	NTS SHALL	LONOUTINUT T	Land BP-3.1 SSWALKS	1. TOM JO 2. IOWA C 3. BURGER 4. RIVER F 5. MAINE C 6. ASH ST 7. NEVADA 8. SUGAR	LO 61 11 13 00 3410. STRAUSSER 3 NES PL (SLM 17.90 RT CT (SLM 18.0 (SLM 18.07) A CT (SLM 18.07)	E (SLM 10 08) M 17.79) 17.99) 10) 17.99) 10) 17.99) 10) 17.99) 10) 17.99) 10) 17.99) 10) 15) 3.10) M 18.12)	9. TUSCARA 10. CANAL S 11 WALNUT 12. HIGH ST 13. OHIO CT 14. LOCUST 15. DAKOTA 16. MARKET	93 (SLM 18.36) ST (SLM 18.43) ST (SLM 18.46) ST (SLM 18.55)	3.22)	VEMENT CALCULATIONS
17400 Engineering/Roadway/Sheets/101417_GC001.dgn	SLI	M RANG	=	TYPICAL SECTION	SIDE	DISTANCE DISTANCE	AVERAGE WIDTH (M)	SURFACE AREA	S CADD GENERATED AREA	202 MEARING COURSE REMOVED	<ul> <li>PAVEMENT PLANING, ASPHALT 25</li> <li>PAVEMENT PLANING, ASPHALT 72</li> <li>CONCRETE, (T=1.25")</li> </ul>	PAVEMENT PLANING, ASPHALT CONCRETE, AS PER PLAN, FG (T=1.25")	100 COAT © 700 COAT ©	PRIME COAT, AS PER PLAN @ 805 0.4 GAL/SY 805	FINE GRADED POLYMER ASPHALT CONCRETE, TYPE B, F2F AS PER PLAN (T=1.25")	COMPACTED AGGREGATE, AS 0 COMPACTED AGGREGATE, AS 0 PER PLAN (T=2")									P	AN SPLITS		PA
TIME: 1:15:13 PM_USER: bross <sup>-</sup>	17.77 18.20 18.22 18.31 18.37 18.53 18.67	TO           TO           TO           TO           TO           TO           TO           TO           TO           TO	18.16 18.22 18.31 18.37 18.53 18.67 19.03	3 3 3 3 3 3 3 3 2 2		2059.20 105.60 475.20 316.80 844.80 739.20 1900.80	30.00 30.00 36.00 30.00 38.00 30.00 27.00	6864.00 352.00 1900.80 1056.00 3566.93 2464.00 5702.40			352.00 1900.80 1056.00 3566.93 2464.00 5702.40	6864.00	617.76 31.68 171.07 95.04 321.02 221.76 513.22	337.92	238.33 12.22 66.00 36.67 123.85 85.56 198.00	46.93									05/f 05/f 05/f 05/f 05/f 05/f 05/f	IHS/PV/CANF IHS/PV/CANF IHS/PV/CANF IHS/PV/CANF IHS/PV/CANF IHS/PV/CANF IHS/PV/CANF		GNAGENCY
-11.71/0.00 E: 17x11 (in.) DATE: 612/2021 Model-pw-02/Documents011 A	19.03 INTEF 17.65 19.03 DRI 17.65	TO RSECTIC TO TO VEWAYS	19.24 NNS 19.03 19.24 5 19.03	2		1108.80 10.00 10.00 2.00	27.00 VARIES VARIES VARIES	3326.40	1249.52 73.39 40.00	40.00	3326.40 1249.52 73.39		299.38 112.46 6.61	197.12	115.50 43.39 2.55 2.00	27.38									05/1	IHS/PV/CANF IHS/PV/CANF IHS/PV/CANF		
STA-93/236 MODEL: Sheet 3 PAPERSIZI puritorhidodr-puribentley.com	MAILBOX 17.65	APPRO	ACHES 19.03			TOTALS CA	RRIED TO (	SL SENERAL S	12.00 BTOTALS UMMARY	<u>40.00</u> 40	22014.65 22015	6864.00	2599.08	647.68 648	0.67	89.96 90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	05/1	14/NHS/PV IHS/PV/CANF 14/NHS/PV 0.00 0. 0 0	DESIGN R MAC PROJEC .00 SHEET 0 P.1	INEK           BFR           REVIEWER           05/04/21           ECT ID           101417           TT           TOTAL           13



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	MAIN ROUTE	INTERSECTING ROUTE	しか	18 H H N	탄장	Ĕ	Ŭ	Ë		S		DT E	U ₹				
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	00.00					SF	FI	55	5F	SF	FI	EACH	EACH	EACH			
	SR-93	WOODSTONE AVE.		FR	-	25.00				25.00						CORRECT TRUNCATED DOME	
	SR-93	WOODSTONE AVE.		RR	-	25.00				25.00						CORRECT TRUNCATED DOME	
ľ																	1
	SR-93	STONEWOOD ST.		FR	-	25.00				25.00						CORRECT TRUNCATED DOME	
	SR-93	STONEWOOD ST			_	25.00				25.00							1
	61(-55	OTONE WOOD OT:			-	23.00				25.00						CONNECT INCINOATED DOME	4
	SR-93	RIVERVIEW ST.		FR	-	30.00				30.00						CORRECT TRUNCATED DOME	
	SR-93	RIVERVIEW ST.		RR	-	35.00				35.00						CORRECT TRUNCATED DOME	
																	1
	SR-93	TOM JONES PI	P 18		Δ2-1	30.00	6.00			30.00						CORRECT TRUNCATED DOME/TRUNCATED DOME IS THE LANDING AREA	
	SD 03		D 10		A2 1	105.00	10.00	50.00		55.00							S S
	3R-93	TOW JOINES FE	P.10	RR	A2-1	105.00	10.00	50.00		55.00						RECONSTRUCT RAIMF	Ľ
	SR-93	MILLAN/CHERRY/IOWA		RR		36.00			36.00							REMOVE TRUNCATED DOME / CURB RAMP REMOVED	
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	SR-93	RIVER ST.		FR	-	30.00				30.00						CORRECT TRUNCATED DOME	
	SR-93	RIVER ST	P 18	RR	Δ2-3	115.00		70.00		45.00				1		RECONSTRUCT RAMP	
	01100		1.10		712 0	110.00		70.00		+0.00							
	00.00																2
	SR-93	MAINE CT.		FR	-	30.00				30.00						CORRECT TRUNCATED DOME/TRUNCATED DOME IS THE LANDING AREA	
	SR-93	MAINE CT.	P.18	RR	A2-1	75.00		25.00		50.00						RECONSTRUCT RAMP	j m
	SR-93	MAINE CT.	P.18	FL	A2-1	60.00				60.00						RECONSTRUCT RAMP / TRUNCATED DOME IS THE LANDING AREA	L 00
	SR-93	ASH ST.		FR	-	30.00				30.00						CORRECT TRUNCATED DOME	1 5
	SR_03					25.00				25.00							0
	SD 03				-	20.00				20.00							Ŭ
	SR-93	ASH ST.		FL	-	30.00				30.00							
	SR-93	ASH ST.	P.18	RL	A2-1	165.00		105.00		60.00						RECONSTRUCT RAMP	
Ę	SR-93	NEVADA CT.	P.18	FR	A2-1	105.00		25.00		80.00						RECONSTRUCT RAMP	1
1.dc	SR-93	NEVADA CT.	P 18	RR	A2-1	110.00		55.00		55.00						RECONSTRUCT RAMP	1
400			1.10		7.2 1	110.00		00.00		00.00							1
σ	SD 02		D 20		A 4 /04	170.00		<u> </u>		110.00						RECONSTRUCT RAMP	4
417	3R-93		P.20	RI	A1/C1	170.00		60.00		110.00							
101	SR-93	BIKE TRAIL	P.20	LT	A1/C1	170.00		60.00		110.00							
sets																	
\Sh	SR-93	TUSCARAWAS ST.	P.21	FR	D-C1	220.00				220.00				1.00		RECONSTRUCT RAMP (EX. BRICK RAMP & SIDEWALK)	1
(wa)	SR-93	TUSCARAWAS ST.	P.21	RR	D-C1	244.00		24.00		220.00						RECONSTRUCT RAMP (EX. BRICK RAMP & SIDEWALK)	1
toac	SR-93	TUSCARAWAS ST		FI 1	_	72.00				72.00						RECONSTRUCT RAMP (EX. BRICK RAMP & SIDEWALK)	1
Pl/F	000					72.00				72.00				+			1
erir			<b></b>	<u>├ _</u>	<b>- - - - - - - - - -</b>	005.00				005.00		ł	1.00	+			4
-ubj	SR-93	CANAL ST.	P.21	FR	D-C1	225.00				225.00			1.00			RECONSTRUCT RAMP (EX. BRICK RAMP & SIDEWALK)	
Ъ	SR-93	CANAL ST.	P.21	RR	D-C1	360.00				360.00			1.00			RECONSTRUCT RAMP (EX. BRICK RAMP & SIDEWALK)	l
/40(	SR-93	CANAL ST.	P.21	FL T	D-C1	250.00				250.00			1.00			RECONSTRUCT RAMP (EX. BRICK RAMP & SIDEWALK)	
1417	SR-93	CANAL ST.	P.21	RL	D-C1	220.00				220.00			2.00	1.00		RECONSTRUCT RAMP (EX. BRICK RAMP & SIDEWALK)	1
<li>10.</li>												1					1
itark	SR-93	WAI NUT ST	D 17		∆2_1	90.00		20.00		70.00				-		RECONSTRUCT RAMP / REMOVE TRUNCATED DOME CROSSING MAIN	1
8	SD 03		D 21			280.00		20.00		70.00		1.00					•
tuct			F.21			200.00				200.00		1.00					4
Dist	৩৫-୬১	WALINUT ST.	P.21		D-C1	260.00				200.00						RECONSTRUCT RAMP (EX. BRICK RAMP & SIDEWALK)	4
ects																	1
Proj	SR-93	HIGH ST.	P.18	FR	A2-3	95.00		40.00		55.00						RECONSTRUCT RAMP	
Ne.	SR-93	HIGH ST. CROSSING SIDE ST.		RR	-	40.00	10.50			40.00	10.50					CORRECT TRUNCATED DOME	
Act	SR-93	HIGH ST. CROSSING MAIN ST.		RR	-	35.00	10.50			35.00	10.50					CORRECT TRUNCATED DOME	DESIGN AGENCY
s/01	SR-93	HIGH ST.	P 18	FI	A2-1	48.00				48.00						RECONSTRUCT RAMP	
nent	SR-93	HIGH ST CROSSING SIDE ST			-	63.00				63.00		+		-			
CUN					-	40.00				40.00		+					
2/Dc	06-70				-	40.00				40.00							
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ot b	SR-93	OHIO CT.	P.18	FR	A2-1	50.00				50.00						RECONSTRUCT RAMP	J
poly	SR-93	OHIO CT.	P.18	FL I	A2-1	50.00				50.00						RECONSTRUCT RAMP	
o u	SR-93	OHIO CT.	P.18	RL	A2-1	55.00				55.00		1	1	1.00		RECONSTRUCT RAMP	DESIGNER
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ntley	CD-03		D 40		<b>D</b> 2	112.00				112.00		1		+			REVIEWER
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t-pv.	58-93		P.19		82	112.00				112.00	ļ	1					PROJECT ID
lodc	SR-93	LOCUST ST. CROSSING SIDE	P.19	RL	B2	84.00				84.00						RECONSTRUCT RAMP	101417
ho/				S	UBTOTALS	4456.00	37.00	534.00	36.00	3886.00	21.00	1.00	5.00	3.00	0.00		SHEET TOTAL
, wq		TOTALS C	CARRIED T	O GENERAL	SUMMARY	4456	37	534	36	3886	21	1	5	3	0		P.15 26
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	MAIN ROUTE	INTERSECTING ROUTE	DESIGN SHEET	QUADRANT RL=REAR LT, RR=REAR RT FL=FWD LT, FR=FWD RT (LOOKING UPSTATION)	CURB RAMP TYPE (SCD BP-7.1, SHEET 2/3)	WALK REMOVED	4" CONCRETE WALK	CURB RAMP								
						SF	SF	SF								
	SR-93	BARBARA ST. BARBARA ST	P.18	FR BR	A2-1	78.00		78.00								
		Britter and Control Co	1.10		772 1	00.00		00.00								
	SR-93	MARKET ST.	P.18	FL	A2-3	56.00	16.00	40.00								
	SR-93	MARKET ST.		RL	-	30.00		30.00								
	SR-93	CENTENNIAL AVE.		RR	-	35.00		35.00								CORR
	SR-93	CENTENNIAL AVE.		RL	-	25.00		25.00								CORR
		STEINER ST.	P 18	FR	A2-1	72 00	20.00	52 00								
	SR-93	STEINER ST.	P.18	RR	A2-1	72.00	20.00	52.00								
	05.220		5.10		5.50											
	SR-236	LAKE AVE./1ST ST.	P.19 P.19	RR FR	D-B2	55.00 70.00		55.00 70.00								
	SR-236	LAKE AVE./1ST ST.	P.21	FL	D-C1	154.00		154.00								
	SR-236	LAKE AVE./1ST ST.	P.18	RL	A2-1	95.00	25.00	70.00								
		HEALY ST.	P 18	FR	A2-1	75.00	25.00	50.00								
	SR-236	HEALY ST.	P.18	RR	A2-1	90.00	30.00	60.00								
	00.000		<b>D</b> 10		10.1	75.00	05.00	50.00								
	SR-236	GAIL AVE.	P.18	FR RR	A2-1 A2-1	75.00 115.00	25.00	50.00 90.00								
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MOD www.	<u> </u>	TOTALS C	ARRIED T	O GENERAL	SUMMARY	1163	186	977	0	0	0	0	0	0	0	
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COMMENTS	CURB RAMP DETAILS
	DESIGN AGENCY
	DESIGNER BFR MAC 05/04/21 PROJECT ID 101417 SHEET TOTAL P.16 26

			DESIGN		CURB RAMP	B RAMP DIMENSIONS (FEET LxW)						
	MAIN ROUTE	INTERSECTION ROUTE	SHEET	QUADRANT	TYPE	А	В	С	D	E	F	G
	SR-93	TOM JONES PL	P.18	FR	A2-1	6		5				
	SR-93	TOM JONES PL	P.18	RR	A2-1	11	10	5				
	SR-93	RIVER ST.	P.18	FR	A2-3	4	5	7	7	5		
	SR-93	MAINE CT.	P.18	FL	A2-1	12		5				
	SR-93	MAINE CT.	P.18	RR	A2-1	10	5	5				
	SR-93	ASH ST.	P.18	RL	A2-1	12	21	5				
	SR-93	NAVADA CT.	P.18	FR	A2-1	11	11	5				
	SR-93	NAVADA CT.	P.18	RR	A2-1	16	5	5				
	SR-93	BIKE TRAIL	P.20	RT	A1/C1	10	4	6	3	3	11	
	SR-93	BIKE TRAIL	P.20	LT	A1/C1	10	4	6	3	3	11	
	SR-93	TUSCARAWAS ST.	P.21	FR	D-C1	11	7	4		20		
	SR-93	TUSCARAWAS ST.	P.21	RR	D-C1	11	7	4		20		
	0.0.00		<b>D</b> 01			10		4		05		
	SR-93		P.21	FK	D-C1	10	6	4		25		
	SR-93		P.21			9 10	5	4		25		
	SK-93		P.21			10	0	4		22		
	৩৫-୬১	CANAL ST.	P.21	KL		12	•	4		30		
	SD 03		D 18	ED	A2 1	1/	1	5				
	SR-93 SR-93		P.10	PR	A2-1 D-C1	14	10	3		20		
	SR-93	WALNUT ST	P 21	RI	D-C1	14	9	4		20		
	014-00	WAENOT OT.	1.21		D-01	10	5			20		
	SR-93	HIGH ST.	P.18	FR	A2-3	7	4	5	4	5		
	SR-93	HIGH ST	P.18	FL	A2-1	8	•	6				
					7							
	SR-93	OHIO CT.	P.18	FR	A2-1	10		5				
	SR-93	OHIO CT.	P.18	FL	A2-1	10		5				
	SR-93	OHIO CT.	P.18	RL	A2-1	11		5				
dgn												
1001	SR-93	LOCUST ST. CROSSING SIDE ST	P.19	FR	B2	7		16				
_G∧	SR-93	LOCUST ST. CROSSING MAIN ST	P.19	FR	B2	7		16				
0141	SR-93	LOCUST ST. CROSSING SIDE ST	P.19	RL	B2	7		12				
ets/1												
\She	SR-93	BARBARA	P.18	FR	A2-1	13		6				
dway	SR-93	BARBARA	P.18	RR	A2-1	11		6				
l∕Roa	60.00		D 40		A 0 0	Α	4	4		E		
ering	SR-93	MARKETST.	P.18	FL	A2-3	4	4	4		5		
ngine	SB-03		D 19		Δ2_1	12	5	Л				<u> </u>
00 <b>-</b> E	SR-93	STEINER ST	P 19		Δ2-1	13	5	4 4				
1 417\4	511-55		1.10		/\1	10						
1014	SR-236	LAKE AVE/1ST ST	P.19	FR	D-B2	5		11				
Stark	SR-236	LAKE AVE/1ST ST.	P.19	RR	D-B2	5		14				
: 04/	SR-236	LAKE AVE/1ST ST.	P.21	FL	D-C1	11	7	4		14		
Z PM	SR-236	LAKE AVE/1ST ST.	P.18	RL	A2-1	14	5	5				
∋cts\L												
Proje	SR-236	HEALY ST.	P.18	FR	A2-1	10	5	5				
ctive	SR-236	HEALY ST.	P.18	RR	A2-1	12	6	5				
V01 A												
: 6/2	SR-236	GAIL AVE.	P.18	FR	A2-1	10	5	5				
	SR-236	GAIL AVE.	P.18	RR	A2-1	18	5	5				
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	STA	SR 93	12.50	12.78					34						TURN LANE APPROACH
	STA	60.02	10.79	12.01					0					7	
	51A	SR 93	12.70	12.91					9					1	
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	<u>SIA</u>	58.93	12.96	14.25				L	00					65	
	STA	SR 93	14.25	14.43					18					14	12 Y/Y @ 40' SPACING
		00.00	44.47	44.70	1	+	1	1	05	1			1	64	
	SIA	<u> </u>	14.47	14.79					60					64	ITT W 20 SFACING
	STA	SR 93	14.79	16.39					112					84	12 Y/Y @ 40' SPACING
		00.00	10.44	47.00	<u> </u>	+	1	1	50	+			+	10	<u> </u>
	SIA	SK 93	16.41	17.20					53					40	
	CTA	SD 02	17.20	17.02					2					2	+
	51A	SR 93	17.20	17.23					2					2	
	STA	SR 93	17.29	17.65					24					18	
	CTA	SD 03	10.03	10.24					1/					11	+
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	93	12.91		I OF BIKE T	RAII		12.91	~50 3001				0.04								
ТА	93	12.93	~50' NORTH				12.96	WOOSTER	ST.			0.04								
TA	93	12.96	WOOSTER	ST.			17.20	SR 21 RAM	1PS			8.48								
TA	93	17.20	SR 21 RAM	PS			17.65	CANAL FU	LTON CORF	P LIMIT		0.90								
TA	93	17.65	CANAL FUL	TON CORP	LIMIT		17.89	CHERRY S	εT.			0.36								
TA	93	18.67	END OF CU	IRB			19.03	CANAL FU	LTON CORF	P LIMIT		0.72								
TA	93	19.03	CANAL FUL	TON CORP	LIMIT		19.24	~550' NOR	TH OF SHIR	EDEN AVE.		0.42								
TA 2	241	0.00	STRUCTURE	E 7606036								0.06								
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	93	12.01		I. I OE BIKE T			12.91	~50 SOUT	H OF BIKE			0.02	0	07						
	93	12.91	~50' NORTH				12.95	WOOSTER	ST	II V (IL		0.02	0.	04						
ТА	93	12.96	WOOSTER	ST.			17.20	SR 21 RAM	IPS			4.24	6.	36						
TA	93	17.20	SR 21 RAME	PS			17.65	CANAL FU	LTON CORF	P LIMIT		0.45	0.	90						
TA	93	17.65	CANAL FUL	TON CORP	LIMIT		19.03	CANAL FU	LTON CORF	P LIMIT		1.44	2.	87						
TA	93	19.03	CANAL FUL	TON CORP	LIMIT		19.24	~550' NOR	TH OF SHIR	EDEN AVE.		0.21	0.	42						
TA 2	236	0.00	SR 21				0.40	~725' NOR	TH OF TOW	PATH AVE.		0.40	0.	80						
TA Z	241	0.00	STRUCTURE	E 7606036								0.03								
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				REVIEWER MAC 05/04/21
				PROJECT ID 101417
360				SHEET TOTAL P.23 26

# DESIGN SPECIFICATIONS

THIS STRUCTURE CONFORMS TO THE "LRFD BRIDGE DESIGN SPECIFICATIONS" ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS, 9TH EDITION, INCLUDING THE 2020 INTERIM SPECIFICATIONS AND THE ODOT BRIDGE DESIGN MANUAL, 2020

# **EXISTING STRUCTURE VERIFICATION**

EXISTING STRUCTURE VERIFICATION: DETAILS AND DIMENSIONS SHOWN ON THESE PLANS PERTAINING TO THE EXISTING STRUC-TURE HAVE BEEN OBTAINED FROM PLANS OF THE EXISTING STRUCTURE AND FROM FIELD OBSERVATIONS AND MEASURE-MENTS. CONSEQUENTLY, THEY ARE INDICATIVE OF THE EXIST-ING 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 EXAM-INATION OF THE EXISTING STRUCTURE. HOWEVER, THE DE-PARTMENT WILL PAY FOR ALL PROJECT WORK BASED UPON ACTUAL DETAILS AND DIMENSIONS WHICH HAVE BEEN VERIFIED IN THE FIELD.

# PROPOSED WORK

STRUCTURE STA-93-1444 (NEWMAN CREEK)

- SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY FED RESIN CONCRETE TREATMENT.
- CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE VEGETATION

STRUCTURE STA-93-1639 (FOX RUN)

- SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY FED RESIN CONCRETE TREATMENT.
- REPAIR SCOUR AT THE FORWARD RIGHT SLOPE
- CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE VEGETATION

STRUCTURE STA-93-1723 (SR21 SLM 18.48)

- SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY FED RESIN CONCRETE TREATMENT.
- CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE VEGETATION
- NEW STRUCTURE IDENTIFICATION SIGNS

STRUCTURE STA-93-1816 (TUSCARAWAS RIVER) - SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY FED RESIN CONCRETE TREATMENT. - CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE VEGETATION

STRUCTURE STA-241-0000 (SUGAR CREEK)

- SEAL EXISTING WEARING SURFACE AND APPROACH SLABS WITH GRAVITY FED RESIN CONCRETE TREATMENT.
- REPAIR EROSION AT THE FORWARD AND REAR WINGWALLS - CHANNEL CLEANOUT
- CLEARING AND GRUBBING 15' AROUND THE STRUCTURE TO REMOVE VEGETATION

# ITEM 201 - CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS

ALTHOUGH NO TREES OR STUMPS ARE SPECIFICALLY MARKED FOR REMOVAL WITHIN THE PLANS, A LUMP SUM QUANTITY IS INCLUDED IN THE STRUCTURE GENERAL SUMMARY FOR ITEM 201 – CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS. SCALPING IS NOT REQUIRED FOR THIS ITEM OF WORK. ALL VEGETATION SHALL BE REMOVED WITHIN 15 FEET (OR TO THE R/W LIMITS, WHICHEVER IS CLOSER) OF THE HEADWALLS, ABUTMENTS AND/OR PIERS.

ALL OTHER PROVISIONS AS SET FORTH IN THE CMS UNDER THIS ITEM ARE INCLUDED IN THE LUMP SUM BID PRICE FOR ITEM 201 – CLEARING AND GRUBBING, AS PER PLAN, AROUND BRIDGES/STRUCTURES/CULVERTS.

# ITEM 202 - REMOVAL MISC.: CHANNEL CLEANOUT

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-93-1639 (7605080) & STA-241-0000 (7606036). 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.

STRUCTURE STA-241-0000: REMOVE DEBRIS AROUND PIERS

# EROSION REPAIR

THE FOLLOWING QUANTITIES SHALL BE USED AS DIRECTED BY THE ENGINEER TO REPAIR EROSION / SLOPE PROTECTION AT THE FOLLOWING STRUCTURES AND LOCATIONS

STRUCTURE STA-93-1639, REPAIR SCOUR AT THE FORWARD RIGHT SLOPE ITEM 601, ROCK CHANNEL PROTECTION, TYPE B, WITH FILTER, 5 CU YD

STRUCTURE STA-241-0000, REPAIR EROSION AROUND ALL WINGWALLS ITEM 203, BORROW, 20 CU YD ITEM 601, DUMP ROCK FILL, TYPE B, 20 CU YD

#### 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.

STRUCTURES: STA-93-1723 (SFN 7605102)

# **OBJECT MARKERS AND STRUCTURE/CULVERT 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-H25b) 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-93-1723 - 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, 3 EACH
- ITEM 630 REMOVAL OF GROUND MOUNTED POST SUPPORT AND DISPOSAL, 2 EACH

STRUCTURE GENERAL NOTES STA-93-1444, STA-93-1639, STA-93-1723 STA-93-1816, STA-241-0000	
SFN 0 DESIGN AGENCY	
DESIGNER CHECKER BFR XXX REVIEWER MAC 05/04/21 PROJECT ID 101417 SUBSET TOTAL 1 3 SHEET TOTAL P.24 26	

	: 3/11/2021	CALC: BFR DATE CHECKED: DATE	QUANTITIES	IMATED	EST		 FILE NO.	UCTURE F	NO. / STR	BRIDGE		
JANTITIES	SEE SHEET		DESCRIPTION	UNIT	EXTENSION	ITEM		STA-241-0000 7606036 06/STR/BR	STA-93-1816 7605145 07/NHS/BR	STA-93-1723 7605102 07/NHS/BR	514-93-1639 7605080 06/STR/BR	7605056 06/STR/BR
ED OI			CLEARING AND GRUBBING, AS PER PLAN		11001	201		LS	LS	LS	LS	LS
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≥			DUMPED ROCK FILL, TYPE B	CY	26000	601		20				
[2]			ROCK CHANNEL PROTECTION, TYPE B WITH FILTER	CY	32100	601					5	
		IN	TREATING CONCRETE BRIDGE DECKS WITH GRAVITY FED RESIN	SY	73500	512		514	649	1458	500	11
<u>स</u>			REMOVAL OF EXISTING PAVEMENT MARKING	FT	74500	512		462	208	894	336	71
ĮĽ.			SIGN, FLAT SHEET	SF	80100	630				12		
			SIGN, FLAT SHEET, 730.20 GROUND MOUNTED SUPPORT NO. 2 POST	SF FT	80100	630				2		
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STA-93/236-11.71/0.00 MODEL: Sheet PAPERSIZE: 17x11 (in.) DATE: 6/2/2021 TIME: 1:16:13 PM USER: bross1 pw://obiodot-pw.bendey.com:colidodot-pw-02Documents/01 Active Projects/District 04/Stark101417





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Image: Sta-31-444, Sta-31-433, Sta-31-727, Sta-31-886, Sta-241-0000       Sta-31-444, Sta-31-633, Sta-31-727, Sta-31-886, Sta-241-0000       Image: Sta-31-444, Sta-31-630, Sta-31-727, Sta-31-886, Sta-241-0000       Image: Sta-31-444, Sta-31-630, Sta-31-727, Sta-31-886, Sta-241-0000       Image: Sta-31-444, Sta-31-630, Sta-31-727, Sta-31-787, S						~	、	EX. ABU		- 7								TAILS 9, STA-93-17: 241-0000
NUMBER         VICE         <		_					STA-93-1444, STA-	<u>'</u> • <b>93-1639, STA-9</b> арргоасн sноw	 23-1723, STA- IN, TRAILING SIM	 - <b>93-18</b> //ILAR	16, STA	241-000	0					STRUCTURE DE -93-1444, STA-93-163 STA-93-1816, STA-2
BROGE       Image: Sign of the second s					512	BRIDGE DECH								AP 512	PROACH SLABS 512			STA
FT         FT         SQ VD         SY         FT         Image: constraint of the state of t	BRIDGE NUMBER	LENGTH (BRIDGE LIMITS)	BRIDGE WIDTH	DECK AREA	TREATING CONCRETE BRIDG DECKS WITH GRAVITY FED RESIN	REMOVAL OF EXISTING PAVEMENT MARKING			LENGTH	(APPROACH SLABS)	APPROACH SLAB WIDTH	APPROACH SLAB AREA	APPROACH (FORWARD / REAR)	TREATING CONCRETE BRIDG DECKS WITH GRAVITY FED RESIN	REMOVAL OF EXISTING PAVEMENT MARKING			
STA-93-1444       52.0       32.00       194.89       195.00		FT	FT	SQ YD	SY	FT				FT	FT	SQ YD		SY	FT			
STA-93-1839       62.00       40.00       275.6       276.00       186.00       276.00       186.00       25.00       40.00       111.11       REAR       112.00       75.00       100       99         STA-93-1723       258.00       44.00       1261.33       1262.07       74.00       111.11       FWD       112.00       75.00       100	STA-93-1444	52.00	32.00	184.89	185.00	156.00			20 15	0.00 5.00	32.00 32.00	71.11 53.33	REAR FWD	72.00	60.00 55.00			
STA-93-1723         258.00         44.00         126.00         74.00         126.00         74.00         126.00         74.00         126.00         74.00         126.00         74.00         126.00         74.00         126.00         74.00         126.00         74.00         126.00         74.00         126.00         74.00         126.00         74.00         126.00         74.00         98.00         60.00         60.00         106.00	STA-93-1639	62.00	40.00	275.56	276.00	186.00			25	5.00	40.00	111.11	REAR	112.00	75.00			SFN
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STA-93-1816         168.00         28.00         522.67         523.00         168.00         20.00         28.00         62.22         FWD         63.00         20.00         20.00         20.00         28.00         62.22         FWD         63.00         20.00         20.00         20.00         28.00         62.22         FWD         63.00         20.00									20	0.00	44.00	97.78	FWD	98.00	60.00			
N       N	STA-93-1816	168.00	28.00	522.67	523.00	168.00			20 20	0.00	28.00 28.00	62.22 62.22	REAR FWD	63.00 63.00	20.00 20.00			
And a	STA-241-0000	124.00	30.00	413.33	414.00	372.00			15	5.00	30.00	50.00	REAR	50.00	45.00			DESIGNER CHECKEF
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