HUNTSVILE 274 (68) ### BEGIN PROJECT LOG-33-10.71 ### END PROJECT LOG-33-15.66 ### LOCATION MAP LATITUDE: 40°24'16" LONGITUDE: 83°47'13" PORTION TO BE IMPROVED

ROUTE	LOCATION	ADT	TRUCKS
LOG-33	SLM 10.71 TO 15.66	18,650	3,450

DESIGN EXCEPTIONS

NONE

ADA DESIGN WAIVERS

NONE

-33-10.7



PLAN PREPARED BY:
ODOT DISTRICT 7 - ENGINEERING
1001 ST. MARYS AVE.
SIDNEY, OHIO

STATE OF OHIO DEPARTMENT OF TRANSPORTATION

LOG-33-10.71

MACARTHUR, HARRISON & LAKE TOWNSHIPS
LOGAN COUNTY

INDEX OF SHEETS:

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FEDERAL PROJECT NUMBER

E200 (253)

RAILROAD INVOLVEMENT

NONE

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF MICROSURFACING OF USR 33 IN LOGAN COUNTY.

PROJECT LOCATIONS

PARTICIPATION 1 = 01/NHS/05 LOG-33-SLM 10.71 TO 15.66

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: NA*

ESTIMATED CONTRACTOR EARTH DISTURBED AREA: NA*

NOTICE OF INTENT EARTH DISTURBED AREA: NA*

* MAINTENANCE PROJECT

LIMITED ACCESS

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

2023 SPECIFICATIONS

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

I HEREBY APPROVE 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.

John W. O'Brien
District 07 Deputy Director

Jack Marchbanks, PhD Director, Department of Transportation

		S	TANDARD	CONSTRUCTION	N DRAWINGS		PLEMENTAL IFICATIONS	SPECIAL PROVISIONS	
BP-3.1	1/19/24					800	1/19/24		
BP-9.1	1/18/19	MT-101.90	7/17/20			807	1/21/22		
BP-9.1 CB-5 DM-4.3		MT-104.10	1/19/24			808	1/18/19		
DM-4.3	1/15/16	MT-105.10	1/17/20			821	4/20/12		ENGINEER'S SEAL
DM-4.4	1/15/16					832	7/21/23		
						850	7/21/23		ROADWAY
MT-95.30	7/19/19	TC-41.20	10/18/13						
MT-95.50	7/21/17	TC-42.20	10/18/13			908	10/20/17		TE OF OXY
MT-98.10	1/17/20	TC-52.10	10/18/13			921	4/20/12		SYNAN
MT-98.11	1/17/20	TC-52.20	1/15/21						RYAN = = P.
MT-98.20	4/19/19								HANKE
MT-98.22	1/17/20	TC-65.10	1/17/14						E-/5841
MT-98.29	1/17/20	TC-65.11	1/19/24						SIONAL ENGLY

7/16/21 TC-71.10

4/19/19 TC-72.20

4/21/23 TC-73.20

4/21/23

7/21/23

DESIGN AGENCY



TMK

REVIEWER

RPH 4-18-24

PROJECT ID

107476

ALIGNMENT AND PROFILE

THE WORK PROPOSED BY THIS PROJECT CONSISTS
OF MICROSURFACING OF THE EXISTING PAVEMENT. THE
ALIGNMENT OF THE EXISTING PAVEMENT WILL NOT BE CHANGED
AND THE PROFILE OF THE PROPOSED SURFACE WILL BE SIMILAR
TO THAT OF THE EXISTING PAVEMENT.

EQUIPMENT CALIBRATION

THE CONTRACTOR SHALL CALIBRATE THE MIXING EQUIPMENT
AS PER 421.07. THIS CALIBRATION SHALL BE PERFORMED
DURING NORMAL BUSINESS HOURS - MONDAY THROUGH FRIDAY,
FROM 7:00 AM TO 5:00 PM.

ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN

THE PAVEMENT REPAIRS SHALL BE IN ACCORDANCE WITH ITEM 251 - PARTIAL DEPTH PAVEMENT REPAIR, WITH THE FOLLOWING ADDITIONS:

THE ENGINEER SHALL DESIGNATE THE LOCATIONS AND LIMITS
OF THE AREAS TO BE REPAIRED. THE AREAS SHALL BE
ROUGHLY RECTANGULAR IN SHAPE AND SAWED OR MILLED TO A
NEAT LINE. THE DEPTH OF REMOVAL, AS DIRECTED BY THE
ENGINEER, SHALL BE SUFFICIENT TO REMOVE ALL DETERIORATED
PAVEMENT. THE REPLACEMENT MATERIAL SHALL BE ITEM 441 -)
ASPHALT CONCRETE SURFACE COURSE, TYPE 1 (449) PG70-22M.

THE ESTIMATED PAVEMENT REPAIR AREAS SHALL BE A MINIMUM OF 4 FEET IN WIDTH. THE DEPTH SHALL BE 4 INCHES OR AS DIRECTED BY THE ENGINEER.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER.

ITEM 251 PARTIAL DEPTH PAVEMENT REPAIR (442), AS PER PLAN
1000 SY

MICROSURFACING UNDER LOG-33-0671 (SR 117 BRIDGE OVER USR 33)

IN ORDER TO PRESERVE SOME VERTICAL CLEARANCE, THE LEVELING COURSE ON USR 33 SHALL BE SUSPENDED UNDER AND 100' BEFORE AND AFTER THIS STRUCTURE. THE SURFACE COURSE SHALL BE PLACED THROUGH THIS AREA.

ITEM 611 CATCH BASIN, RECONSTRUCTED TO GRADE, AS PER PLAN ITEM 611 CATCH BASIN. NO. 5

THERE ARE THIRTY FOUR (34) CACTH BASINS LISTED IN THE TABLE BELOW THAT EITHER NEED TO BE REPLACED OR RECONSTRUCTED TO GRADE. THE ENGINEER WILL DESIGNATE AT WHICH LOCATIONS THE CATCH BASIN IS TO BE REPLACED AND AT WHICH LOCATIONS THE CATCH BASIN IS TO BE RECONSTRUCTED.

THE CONTRACTOR SHALL RECONSTRUCT TEN (10) OF THE CATCH BASINS AS PER CMS 611.10C AND AS DIRECTED BY THE ENGINEER. CONCRETE APRON REPLACEMENTS SHALL ALSO BE INCLUDED WITH THIS PAY ITEM. THE FOLLOWING ESTIMATED QUANTITY HAS BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER.

ITEM 611 - CATCH BASIN, RECONSTRUCTED TO GRADE,

AS PER PLAN

24 EACH

THE CONTRACTOR SHALL REPLACE TWENTY FOUR (24) OF

THE CATCH BASINS. THIS REPLACEMENT INCLUDES REMOVING

THE EXISTING CATCH BASIN AND 4'± OF THE EXISTING OUTLET

PIPE AND INSTALLING THE NEW CATCH BASIN AND PIPE. THE

FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO

GENERAL SUMMARY TO BE USED AS DIRECTED BY THE ENGINEER.

ITEM 202 - PIPE REMOVED, 24" AND UNDER	<i>96 FEET</i>
ITEM 202 - CATCH BASIN REMOVED	24 EACH
ITEM 611 - 15" CONDUIT, TYPE C	96 FEET
ITEM 611 - CATCH BASIN, NO. 5	24 EACH

SLM	LOCATION		SLM	LOCATION
10.90	MEDIAN		13.60	MEDIAN
11.20	MEDIAN		13.80	MEDIAN
11.30	MEDIAN		14.02	MEDIAN
11.70	MEDIAN		14.16	MEDIAN
11.86	MEDIAN		14.31	MEDIAN
11.89	MEDIAN		14.40	MEDIAN
11.90	MEDIAN		14.50	MEDIAN
12.09	MEDIAN		14.65	MEDIAN
12.25	MEDIAN		14.73	MEDIAN
12.27	MEDIAN		14.80	MEDIAN
12.29	MEDIAN		14.90	MEDIAN
12.30	MEDIAN		15.19	MEDIAN
12.50	MEDIAN		15.20	MEDIAN
12.60	MEDIAN		15.27	MEDIAN
13.30	MEDIAN		15.37	RIGHT
13.49	MEDIAN		15.52	MEDIAN
13.50	MEDIAN		15.60	MEDIAN

SPEED MEASUREMENT MARKINGS

USR 33 EB SLM 11.28 TO 12.28 USR 33 WB SLM 11.71 TO 12.71

PLACE A SERIES OF SPEED MEASUREMENT MARKINGS ON THE ROADWAY TO ASSIST IN THE ENFORCEMENT OF SPEED REGULATIONS. EACH SPEED MEASUREMENT MARKING SHALL CONSIST OF ONE WHITE TRANSVERSE 24-INCH LINE MEASURED IN THE DIRECTION OF TRAVEL AND 4 FEET IN LENGTH. THE MARKINGS SHALL BE PLACED AT ONE-QUARTER MILE INTERVALS FOR A MINIMUM OF 1 MILE ALONG THE ROADWAY, AT LOCATIONS AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER. SPEED MEASUREMENT MARKINGS SHOULD AVOID BEING LOCATED IN THE VICINITY OF A TAPER, ENTRANCE RAMP OR EXIT RAMP.

ON MULTILANE HIGHWAYS WITH SHOULDER WIDTHS OF AT LEAST 6 FEET, CENTER THE SPEED MEASUREMENT MARKING ENTIRELY ON THE SHOULDER. IF THE SHOULDER WIDTH IS LESS THAN 6 FEET, CENTER THE MARKING ON THE EDGE LINE SUCH THAT IT EXTENDS 2 FEET ON EITHER SIDE. TO ASSURE VISIBILITY OF THE MARKINGS AND REDUCE PARALLAX ERRORS, FOR EACH DIRECTION UTILIZING AN AIR SPEED CHECK ZONE, A SET OF TWO MARKINGS (LEFT AND RIGHT SIDE) SHALL BE USED AT EACH ONE-QUARTER MILE INTERVAL.

ON TWO-LANE ROADWAYS, ONE MARKING SHOULD BE USED AT EACH ONE-QUARTER MILE INTERVAL AND INSTALLED ACROSS THE CENTER LINE SUCH THAT IT EXTENDS 2 FEET ON EITHER SIDE.

THE MARKINGS SHALL BE LAID OUT BY A REGISTERED SURVEYOR.

ON SECTIONS WITH CURVES, THE MARKINGS ON THE INSIDE OF
THE CURVE SHALL MEET THE REQUIRED ONE-QUARTER MILE
INTERVALS. MARKINGS ON THE OUTSIDE OF THE CURVE SHALL BE
DIRECTLY ACROSS FROM THE MARKINGS ON THE INSIDE OF THE
CURVE, NOT STAGGERED. A RECORD IS TO BE KEPT AND ONE
ORIGINAL SIGNED AND SEALED DOCUMENT IS TO BE SENT TO
THE DISTRICT TRAFFIC ENGINEER AND ONE COPY IS TO BE SENT
TO THE DISTRICT CONSTRUCTION ENGINEER.

MATERIALS, EQUIPMENT AND APPLICATION SHALL BE ACCORDING TO THE TYPE OF PAVEMENT MARKING MATERIAL USED.

PAYMENT WILL BE FOR EACH 24-INCH-WIDE BY 4 FEET LONG
MARKING AND SHALL INCLUDE THE PAVEMENT MARKING MATERIAL
USED AND THE SURVEYING WORK. THE FOLLOWING QUANTITIES HAS
BEEN CARRIED TO THE GENERAL SUMMARY TO BE USED AS
DIRECTED BY THE ENGINEER:

THE FOLLOWING QUANTITY HAS BEEN INCLUDED IN THE PAVEMENT MARKING SUMMARY FOR MARKINGS ON BOTH THE INSIDE AND OUTSIDE SHOULDERS OF IR 70 EASTBOUND.

ITEM 646 SPEED MEASURMENT MARKING. 20 EACH

PAVEMENT MARKINGS

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DOCUMENT THE LAYOUT OF THE EXISTING PAVEMENT MARKINGS INCLUDING EXISTING LANE AND SHOULDER WIDTHS IN A LOG AND SUBMIT TO THE DEPARTMENT FOR ACCEPTANCE. THE DEPARTMENT WILL NOT ALLOW THE CONTRACTOR TO PERFORM ANY PAVEMENT WORK FUNCTIONS (MILLING, OVERLAY, ETC.) UNTIL ACCEPTANCE OF THE SUBMITTED EXISTING MARKING LOG.

MARKINGS SHALL REPLACED IN KIND EXCEPT WHERE EXISTING
MARKINGS DO NOT MEET THE CURRENT STANDARD CONSTRUCTION
DRAWINGS. THE CONTRACTOR SHALL COORDINATE AND
CORRABORATE THE PROPOSED LAYOUT OF ALL PAVEMENT
MARKINGS PER APPLICABLE STANDARD CONSTRUCTION
DRAWINGS WITH ODOT.

NO PERMANENT PAVEMENT MARKINGS OR RAISED PAVEMENT
MARKERS SHALL BE PLACED UNTIL THE ODOT PROJECT
ENGINEER HAS APPROVED THE LOCATION AND/OR LAYOUT OF THE
WORK ZONE PAVEMENT MARKINGS.

PAVEMENT MARKINGS ON INTERSECTING ROADWAYS

THE EDGE LINE SHALL BE CONTINUED AROUND ALL RADII TO MATCH THE EXISTING EDGE LINE OF THE INTERSECTING ROUTE. IF THE INTERSECTING ROUTE HAS A CENTER LINE MARKING, THE CENTER LINE SHALL BE RE-STRIPED OVER THE AREA OF RESURFACING.

COOPERATION WITH RAILROAD (CSX TRANSPORTATION)

THE CONTRACTOR SHALL COORDINATE ALL WORK ON, OVER OR ADJACENT TO THE RAILROAD WITHIN PROJECT LIMITS. THE CONTRACTOR SHALL CONTACT THE FOLLOWING, AT LEAST 30 DAYS IN ADVANCE, IN ORDER TO COORDINATE THE NECESSARY WORK. UNDER NO CIRCUMSTANCES SHALL THERE BE ANY WORK PERFORMED WITHIN THE RAILROAD RIGHT-OF-WAY WITHOUT THE PROPER WRITTEN AUTHORIZATION AND/OR FLAGGING PROTECTION FROM THE RAILROAD. SEE "PAVING AT RAILROAD CROSSINGS" NOTE FOR ADDITIONAL DETAILS.

IF ANY ISSUE OR INCIDENT OCCURS WITHIN THE CSXT ROW, PLEASE CONTACT THE CSXT PUBLIC SAFETY COORDINATION CENTER AT 800-232-0144.

EROSION CONTROL DEVICES SHALL BE LOCATED A MINIMUM OF 15 FEET FROM CENTERLINE OF RAILROAD TRACKS.

CSX TRANSPORTATION
CROSSING LOCATION: LOG-33-15.32

DESIGN AGENC



TMK

REVIEWER

RPH 4-18-24

PROJECT ID

107476

P.3 TOTAL

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							155,801 12,000				155,801 12,000	421 423	00250	12,000	SY	MICROSURFACING, LEVELING COURSE  CRACK SEALING, TYPE IV	
							12,000		27.63		27.63	850	10010	27.63	MILE	GROOVING FOR 6" RECESSED PAVEMENT MARKING, (ASPHALT)	
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									5,545		5,545	850	10130	5,545	l FI	GROOVING FOR 12" RECESSED PAVEMENT MARKING, (ASPHALT)	
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								9.7			9.7	642	30030	9.7	MILE	REMOVAL OF PAVEMENT MARKING, LANE LINE, 6", TYPE 1	
								5,893			5,893	643	30000	5,893	FT 	REMOVAL OF PAVEMENT MARKING, CHANNELIZING LINE, 12"	2
								4,820 57			4,820 57	643	30000 30000	4,820 57	FT cT	REMOVAL OF PAVEMENT MARKING, DOTTED LINE	Z Z
								66			66	643 643	30000	66	FT FT	REMOVAL OF PAVEMENT MARKING, STOP LINE REMOVAL OF PAVEMENT MARKING, TRANSVERSE/DIAGONAL LINE	GEI
												0.13	33333		<u> </u>	THE WAY TO THE	0
								4			4	643	30020	4	EACH	REMOVAL OF PAVEMENT MARKING, LANE ARROW	
								20	240		20	643	30020	20	EACH	REMOVAL OF PAVEMENT MARKING, SPEED MEASUREMENT MARKING	
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01.dg									66		66	646	10400	66	FT FT	TRANSVERSE/DIAGONAL LINE	
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7476									4		4	646	20300	4	EACH	LANE ARROW	
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adway									9.7		9.7	807	14110	9.7	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, LANE LINE, 6"	
ig/Ros																	
Deerin									0.15		0.15	807	14200	0.15	MILE	WET REFLECTIVE THERMOPLASTIC PAVEMENT MARKING, CENTER LINE	
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6 AM strict								0.09 1,044		-	0.09 1,044	614 614	21550 23690	0.09 1,044	MILE FT	WORK ZONE CENTER LINE, CLASS III, 642 PAINT WORK ZONE CHANNELIZING LINE, CLASS III, 12", 642 PAINT	
cts/Di								171			171	614	26610	171	FT FT	WORK ZONE STOP LINE, CLASS III, 642 PAINT	
AE: 1.																	
ctive ctive								12			12	614	30650	12	EACH	WORK ZONE ARROW, CLASS III, 642 PAINT	DESIGN AGE
0/202								0.45		-	0.45	614	98000	0.45	MILE	WORK ZONE PAVEMENT MARKING, MISC.: WORK ZONE CENTER LINE, CLASS 1, 807 PAINT	
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DATE								16,635			16,635	614	98100	16,635	FT	WORK ZONE PAVEMENT MARKING, MISC.: WORK ZONE CHANNELIZING LINE, CLASS I, 12", 807 PAINT 9	
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