

#### **LOCATION MAP**

LATITUDE: 41°42'02" LONGITUDE: 83°22'45"



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

#### **DESIGN DESIGNATION**

NONE REQUIRED (ODNR PROJECT)

#### **DESIGN EXCEPTIONS**

**NONE REQUIRED** 

### ADA DESIGN WAIVERS

**NONE REQUIRED** 

# STATE OF OHIO DEPARTMENT OF TRANSPORTATION

# LUC-ODNR MAUMEE BAY STATE PARK FY24

CITY OF OREGON LUCAS COUNTY

# **INDEX OF SHEETS:**

TITLE SHEET SCHEMATIC PLAN TYPICAL SECTION GENERAL NOTES GENERAL SUMMARY **SUBSUMMARIES PLAN SHEETS** 

## **2023 SPECIFICATIONS**

FEDERAL PROJECT NUMBER

RAILROAD INVOLVEMENT

ODNR PROJECT TO MICROSURFACE VARIOUS ROADS AND

LODGE DRIVE (PARK RD 2 AND N CURTICE RD). PERFORM

PARKING LOTS AT MAUMEE BAY STATE PARK. THIS INCLUDES

ROADS 10, 11, 12, 13, 14, NORDEN ROAD AND A PORTION OF

PROJECT DESCRIPTION

NECESSARY RELATED WORK.

EARTH DISTURBED AREAS

ESTIMATED CONTRACTOR EARTH DISTURBED AREA:

NOTICE OF INTENT EARTH DISTURBED AREA:

PROJECT EARTH DISTURBED AREA:

NON-FEDERAL

NONE

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PLANS, CHANGES LISTED IN THE PROPOSAL, AND THE SUPPLEMENTAL SPECIFICATION 800 VERSION INDICATED ON THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

N/A ACRES

N/A ACRES

N/A ACRES

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.

Pat Mibler, PE Pat McColley, P.E., S.I. District 02 Deputy Director

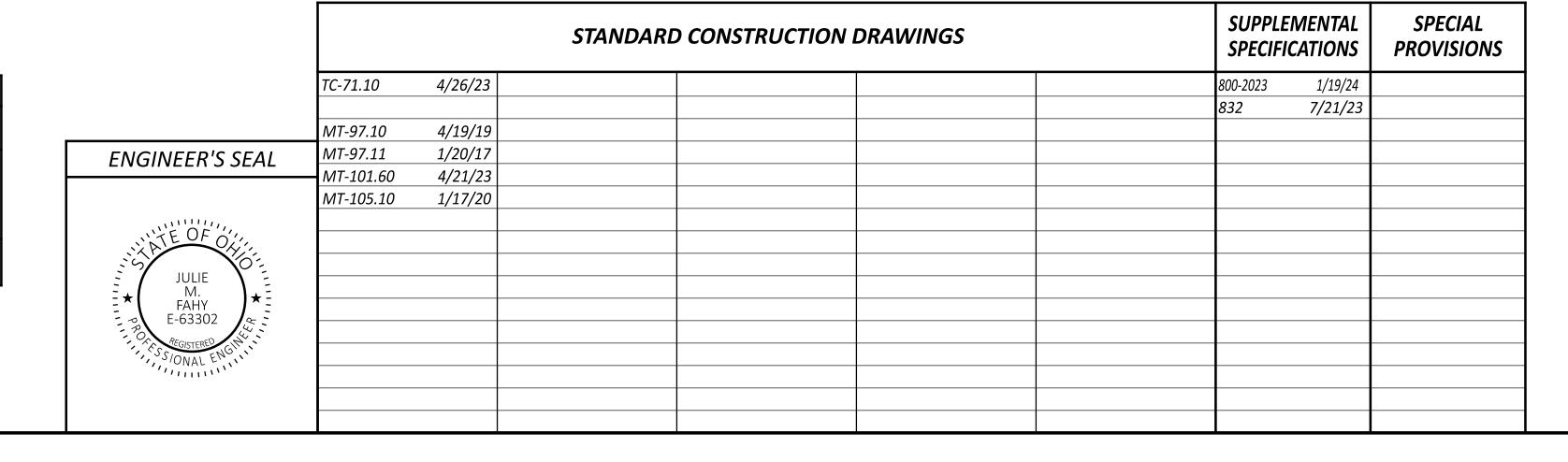
Director, Department of Transportation

### UNDERGROUND UTILITIES Contact Two Working Days Before You Dig



OHIO811, 8-1-1, or 1-800-362-2764 (Non members must be called directly)

> PLAN PREPARED BY: **ODOT DISTRICT 2** 317 EAST POE RD. **BOWLING GREEN, OH 43402**







ESIGNER NE REVIEWER JMF MM-DD-

117289



DESIGNER NE

REVIEWER JMF MM-DD-Y PROJECT ID 117289

SHEET TOTAL P.3 12

#### ITEM 421 - MICROSURFACING, SURFACE COURSE, AS PER PLAN

FOLLOW REQUIREMENTS OF 421 EXCEPT AS FOLLOWS:

REPLACE THE 702.16 TYPE C EMULSIFIED ASPHALT (BINDER) WITH ERGON ASPHALT & EMULSION'S E-FLEX (CSS-1EP) EMULSIFIED ASPHALT (BINDER) MEETING THE REQUIREMENTS BELOW.

PROPERTY	AASHTO TEST PROCEDURE	Specification
ASPHALT BASE PROPERTIES		
ODSR, KPA (G*/SIN DELTA, 10 RAD/SEC), 76 DEG C	T 315	MIN OF 1.00
TESTS ON EMULSION		
SAYBOLT FUROL VISCOSITY, 50 DEG C, SECONDS	T 59	15 TO 150
SIEVE TEST, %	T 59	MAX OF 0.1
RESIDUE BY EVAPORATION, %	T 59	MIN OF 62
RESIDUE PROPERTIES (1)	R 78, PROCEDURE B	
MSCR, 70 DEG C, REC AT 3.2 KPA, %	T 350	MIN OF 80
MSCR, 70 DEG C, JNR AT 3.2 KPA	T 350	MAX OF 0.50

(1) RESIDUE PROPERTIES FROM LOW TEMPERATURE EVAPORATION FOLLOWING AASHTO R 78, PROCEDURE B. AFTER RECOVERING THE RESIDUE, THE SAMPLE MAY BE ANNEALED PRIOR TO TESTING TO REMOVE EXCESS MOISTURE AND PROVIDE FOR A CONSTANT SAMPLE. THE ANNEALING CAN BE ACCOMPLISHED BY PLACING 20 GRAMS OF RESIDUE IN A 6 OZ METAL CONTAINER (APPROXIMATELY 3-INCH DIAMETER) AND GEATING TO 163 DEG C FOR NO MORE THAN 15 MINUTES. THE SAMPLE SHOULD BE STIRRED WITH A SPATULA EVERY 5 MINUTES. THE SAMPLE CAN THEN BE PORED DIRECTLY INTO A 25 MM DSR SILICON MOLD FOR EVALUATION.

PROVIDE CERTIFIED TEST DATA OF EACH TANK SHIPPED TO THE PROJECT SHOWING THE MATERIAL MEETS THE REQUIREMENTS ABOVE. MATERIAL DOES NOT NEED TO BE ON THE SUPPLEMENT 1032 LIST.

FOLLOW 421.03 EXCEPT AS FOLLOWS:

REPLACE THE FOLLOWING MIX DESIGN REQUIREMENTS WITH THE BELOW.

TEST	MIXTURE CONTROL	SPECIFICATION
RANGE OF RESIDUAL ASPHALT, %	SEE 421.12	6.5 TO 9.0
RANGE OF MINERAL FILLER, %	+/- 0.5%	0.5 TO 3.0
TEST	ISSA METHOD	SPECIFICATION
WET TRACK ABRASION LOSS, 1 HR SOAK, G/FT2	TB 100	MAX OF 38
WET TRACK ABRASION LOSS, 6 DAY SOAK, G/FT2	TB 100	MAX OF 60
LATERAL DISPLACEMENT, %	TB 147	MAX OF 5
EXCESS ASPHALT BY LWT, G/FT2	TB 109	MAX OF 50
SYSTEM COMPATIBILITY, MIN GRADE	TB 144	11 POINTS
MIXING TIME, SECONDS, 77 DEG F	TB 113	MIN OF 120
SET TIME, 30 MINUTES, KG-CM	TB 139	MIN OF 12
EARLY ROLLING TRAFFIC TIME, 60 MINUTES, KG-CM	TB 139	MIN OF 20
WATER RESISTANCE, 30 MINUTES	TB 102	NO DISCOLORATION
WET STRIPPING TEST, % COATING	TB 114	MIN OF 90
SYSTEM COMPATIBILITY	TB 115	PASS
TO BE CONDUCTED AT RECOMMENDED JOB MIX FORMULA		
CANTABRO MASS LOSS, % (1)	TX 245-F	MAX OF 2.0
BULK SPECIFIC GRAVITY (1)	AASHTO T 166	2.100 TO 2.400
IDEAL CT, PEAK LOAD (2)	ASTM D8225	MIN OF 2,000
IDEAL CT, CT INDEX (2)	ASTM D8225	MIN OF 100
MSCR, 70 DEG C, JNR AT 3.2 KPA	T 350	MAX OF 0.50

- (1) SAMPLES TO BE PREPARED BY ISSA TB 148 MARSHALL COMPACTION ONLY (30 BLOWS PER SIDE) AND TESTED IN DRY CONDITION AT 25 DEG C.
  - a. A COMPACTION TEMPERATURE OF 154 DEG C HAS BEEN FOUND TO BE SUFFICIENT.
  - b. FOUR HOURS OF TOTAL HEATING +/- 5 MINUTES HAS BEEN FOUND TO BE SUFFICIENT TO REACH COMPACTION TEMPERATURE.
  - c. ALLOW TO COOL AND MEASURE BULK SPECIFIC GRAVITY.
  - d. PERFORM TEX T245-F ONCE THE SAMPLES HAVE DRIED TO CONSTANT MASS IN FRONT OF A FAN AT ROOM TEMPERATURE.

#### (2) PREPARE SAMPLES FOR ASTM D8225:

- a. MIX COMPONENT MATERIALS AND SPREAD THEM APPROXIMATELY TWO INCHES THICK ON RELEASE PAPER. ALLOW THE MIXTURE TO CURE AT 60 DEG C FOR 16 HOURS.
- b. PROPORTION THE MATERIAL TO YIELD PROPER DIMENSIONS FOR THE TEST.
- c. HEAT THE MIXTURE TO 154 DEG C FOR FOUR HOUR +/- 5 MINUTES AND COMPACT TO A MINIMUM OF 2.200 G/ML WITH A SUPERPAVE GYRATORY COMPACTOR AT 30 GYRATIONS.
- d. ALLOW TO COOL AND MEASURE BULK SPECIFIC GRAVITY.
- e. PERFORM ASTM D8225 AT LEAST 16 HOURS AFTER TESTING BULK DENSITY.

SUBMIT THE JOB MIX FORMULA AND MATERIALS TO MIKE HEMSLEY OF PARAGON TECHNICAL SERVICES (ERGON) AT 390 CARRIER BLVD, RICHLAND, MS 39218 TO VERIFY THE JOB MIX FORMULA MEET THE REQUIREMENTS ABOVE. THE COST OF VERIFICATION IS INCIDENTAL TO THIS LINE ITEM. SUBMIT A LETTER FROM PARAGON TECHNICAL SERVICES APPROVING THE JOB MIX FORMULA AND THEIR RESULTS TO OMM TO OBTAIN A JMF NUMBER.

DESIGN AGENC



DESIGNER
NE
REVIEWER
JMF MM-DD-Y
PROJECT ID
117289

P.4A 1

PERSIZE: 34x22 (in.) DATE: 4/2/2024 TIME: 10:19:11 AM USER: nelkhech
ERSIZE: 34x22 (in.)

SHEET NO.

8

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9 9-12

9

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11

11

TOTALS CARRIED TO GENERAL SUMMARY

STATION TO STATION

N CURTICE RD

PARK RD 2

NORDEN RD

PARK RD 10 (INCLUDING PARKING LOT 3)

PARK RD 11

PARK RD 12 (INCLUDING PARKING LOT 2)

PARK RD 13 (INCLUDING PARKING LOT 1)

PARK RD 14

421

COURSE

MICROSURFACING, SURFACE

SY

2921.56

3626.67

3559.89

18530.22

2046.44

3351.00

2884.67

1197.22

mm mm

35197 2922

DESIGN AGENCY

JMF MM-DD-Y

117289