

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION

BUT-4-13.90

LIBERTY TOWNSHIP BUTLER COUNTY

PROJECT DESCRIPTION

CONSTRUCT NORTHBOUND RIGHT TURN LANE ON SR 747 AT SR 4. REMOVE THE EXISTING SLIP LANE FROM NORTHBOUND SR 747 TO SR 4. REBUILD/UPGRADE THE EXISTING SIGNAL, INCLUDING ADDING BACKPLATES.

PROJECT EARTH DISTURBED AREA: 0.69 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0.0 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: N/A ACRES

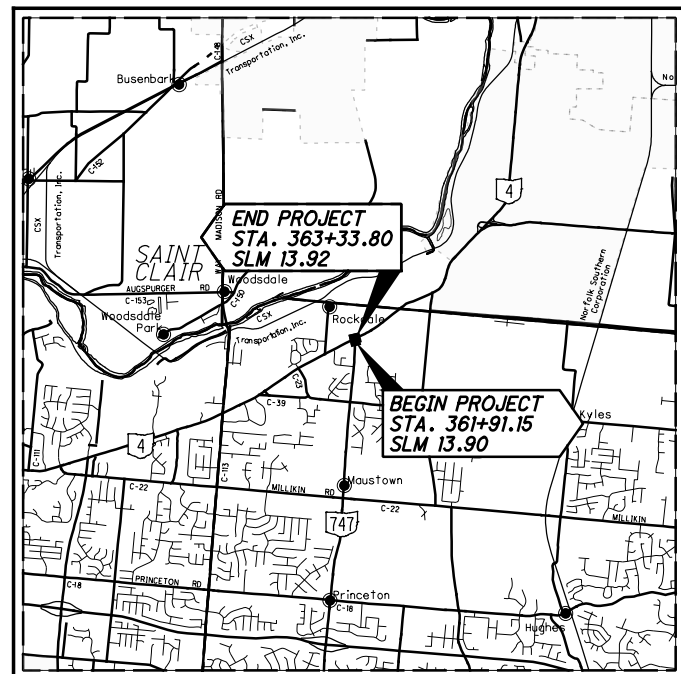
2019 SPECIFICATIONS

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

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

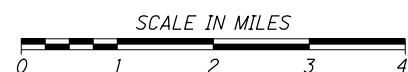
APPROVED _____
DATE _____ DISTRICT DEPUTY DIRECTOR

APPROVED _____
DATE _____ DIRECTOR, DEPARTMENT OF TRANSPORTATION



LOCATION MAP

LATITUDE: 39°25'40" LONGITUDE: -84°27'07"



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

DESIGN DESIGNATION

SR 4		SR 747	
CURRENT ADT (2020)	29,500	CURRENT ADT (2020)	6,600
DESIGN YEAR ADT (2041)	37,000	DESIGN YEAR ADT (2041)	6,900
DESIGN HOURLY VOLUME (20)		DESIGN HOURLY VOLUME (20)	
DIRECTIONAL DISTRIBUTION		DIRECTIONAL DISTRIBUTION	
TRUCKS (24 HOUR B&C)	17%	TRUCKS (24 HOUR B&C)	17%
DESIGN SPEED	55 MPH	DESIGN SPEED	45 MPH
LEGAL SPEED	55 MPH	LEGAL SPEED	45 MPH
DESIGN FUNCTIONAL CLASSIFICATION:		DESIGN FUNCTIONAL CLASSIFICATION:	
03 URBAN PRINCIPAL ARTERIAL		04 URBAN MINOR ARTERIAL	
NHS PROJECT	YES	NHS PROJECT	NO

DESIGN EXCEPTIONS

NONE REQUIRED

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:

CMT
CRAWFORD, MURPHY & TILLY, INC.
84 REMICK BOULEVARD
SPRINGBORO, OHIO 45066
PH (937)701-2193
www.cmtengr.com

ENGINEERS SEAL:

SIGNED: *Shelby R. Ingle*
DATE: 12-08-20

INDEX OF SHEETS:

TITLE SHEET	1
SCHEMATIC PLAN	2
TYPICAL SECTION	3
GENERAL NOTES	4
MAINTENANCE OF TRAFFIC	5-6
GENERAL SUMMARY	7-9
SUBSUMMARY SHEETS	10-13
PAVEMENT CALCULATIONS	14
PLAN AND PROFILE SR 747	15
CROSS SECTIONS SR 747	16-21
PLAN AND PROFILE SR 4	22
CROSS SECTIONS SR 4	23-24
INTERSECTION DETAILS	25-26
DRIVE DETAILS	27
DRAINAGE PROFILES	28-29
TRAFFIC CONTROL PLAN	30-33
TRAFFIC SIGNAL PLAN	34-47

Soil sheets 48-56

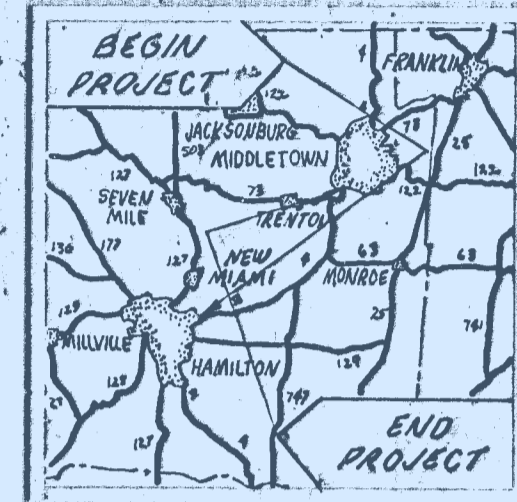
STANDARD CONSTRUCTION DRAWINGS						SUPPLEMENTAL SPECIFICATIONS	SPECIAL PROVISIONS
BP-3.1	01/17/20	HW-2.1	7/20/18	TC-41.40	10/18/13	800-2019	7/17/20
BP-4.1	7/19/13	HW-2.2	7/20/18	TC-42.20	10/18/13	809	7/17/20
BP-5.1	1/18/19			TC-52.10	10/18/13	832	10/19/18
BP-7.1	7/17/20	MT-95.30	7/19/19	TC-52.20	7/20/18	878	1/17/20
		MT-97.10	4/19/19	TC-65.10	1/17/14	909	7/17/20
		MT-97.12	1/20/17	TC-65.11	7/21/17		
		MT-99.20	4/19/19	TC-71.10	1/19/18		
MH-1.2	1/15/16	MT-101.90	7/21/17	TC-81.22	4/17/20		
		MT-105.10	1/17/20	TC-83.10	1/17/20		
DM-1.1	7/21/17			TC-83.20	7/21/17		
DM-4.3	1/15/16	HL-30.11	4/17/20	TC-85.10	4/17/20		
DM-4.4	1/15/16	HL-30.22	4/17/20	TC-85.20	7/20/18		
CB-1.1	7/19/19	TC-21.21	4/17/20	ITS-12.50	1/17/20		
CB-2.1	7/20/18	TC-41.20	10/18/13				
CB-2.2	7/20/18	TC-41.30	10/18/13				

FEDERAL PROJECT NO. E191888
PID NO. 110458
CONSTRUCTION PROJECT NO.
RAILROAD INVOLVEMENT NONE
BUT-4-13.90
1/47

L:\ODOT\19066304-00_07&8SafetyDesign\05_BUT-4\110458\Roadway\Sheets\110458_GT001.dgn 12/28/2020 9:33:16 AM Wilson

NOTE: THE INFORMATION SHOWN BY THIS SUBGRADE PROFILE WAS SECURED FOR THE USE OF THE STATE OF OHIO AND IS NOT TO BE CONSTRUED AS A PART OF THE PLANS GOVERNING THE CONSTRUCTION OF THE PROJECT.

REVISED - OCTOBER-1954



LOCATION MAP

LEGEND FOR PROJECT-AVERAGE RESULTS OF TESTS- 204 SAMPLES TESTED

DESCRIPTION	A.R.B. CLASS	OHIO CLASS	% AGG.	% C. SAND	% F. SAND	% SILT	% CLAY	LIQUID LIMIT	PLASTICITY INDEX	WATER CONTENT	SAMPLES TESTED
GRAVEL	A-1a	A-1a	72	12	5	8	3	24	5	-	5
GRAVEL WITH SAND	A-1-b	A-1b	34	40	12	10	4	23	1	13	3
GRAVEL WITH SAND & SILT	A-2-A	A-2-A	58	14	4	19	6	25	8	7	2
GRAVEL WITH SAND, SILT, AND CLAY	A-2-B	A-2-B	48	13	11	15	13	33	10	17	3
COARSE & FINE SAND	-	A-3a	2	33	42	13	10	N.P.	N.R.	18	5
SANDY SILT	A-4a	A-4a	18	12	18	3	21	23	7	15	49
SILT	A-4b	A-4b	2	3	9	61	25	27	5	19	25
SILT & CLAY	A-6a	A-6a	10	9	13	34	34	29	13	17	51
CLAY	A-6b	A-6b	13	7	11	30	39	36	18	18	30
ELASTIC CLAY WITH SOME ORGANIC MATERIAL	A-7-5a	A-7-5a	4	4	11	50	31	42	13	26	2
CLAY	A-7-6a	A-7-6a	14	3	0	32	45	44	23	21	23
SHALE											6
LIMESTONE											1
CINDERS											1

CLASSIFIED BY VISUAL INSPECTION.

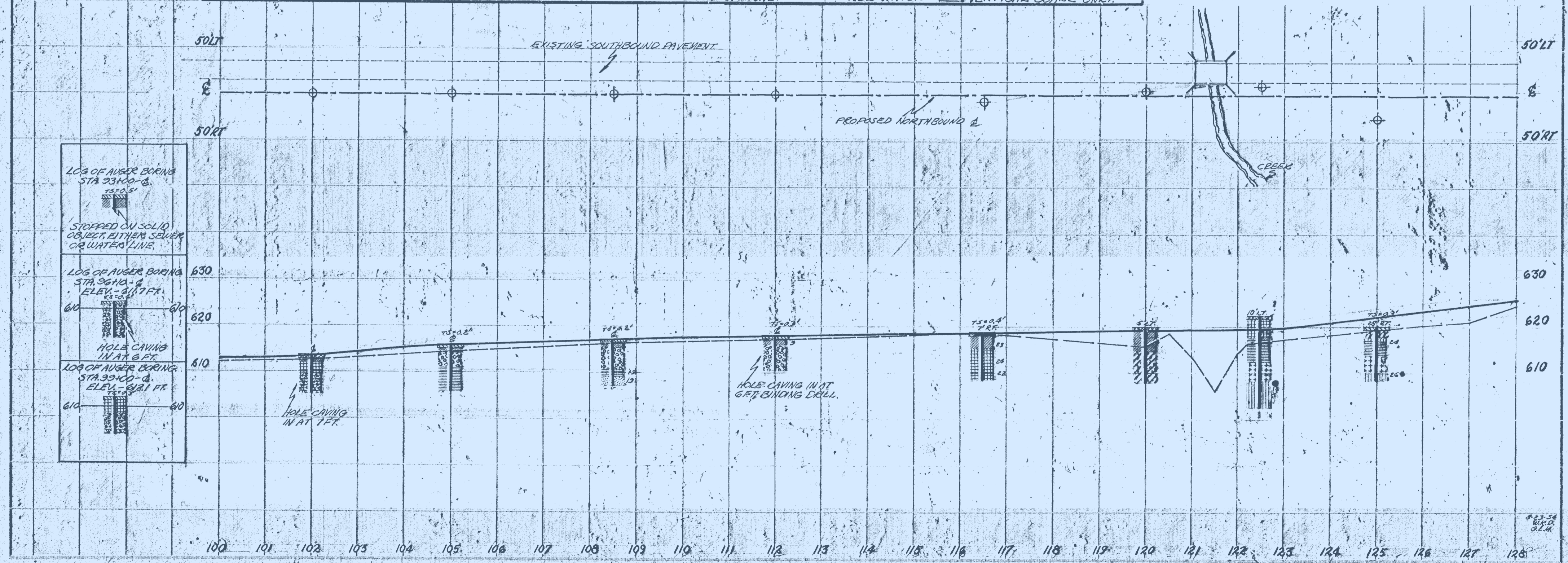
CLASSIFIED BY VISUAL INSPECTION.

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-SAMPLES TESTED -
 LAB. NOS. 50-1002-1026 INCL.; 1041-1087 INCL.;
 1192-1219 INCL.; 1448-1477 INCL.; 1496-1515 INCL.;
 1643-1669 INCL.; 1773-1802 INCL.
 MOISTURE DENSITY SAMPLE.
 LAB. NO. 50-1087.
 NOTE: FIGURES BESIDE BORING INDICATE
 MOISTURE CONTENT IN PERCENT.

AUGER BORING PLOTTED TO TOP SOIL. TS-X' - APPROX. DEPTH. MOISTURE CONTENT NEARLY EQUAL TO OR GREATER THAN THE LIQUID LIMIT. CORE BORING PLOTTED TO VERTICAL SCALE ONLY.

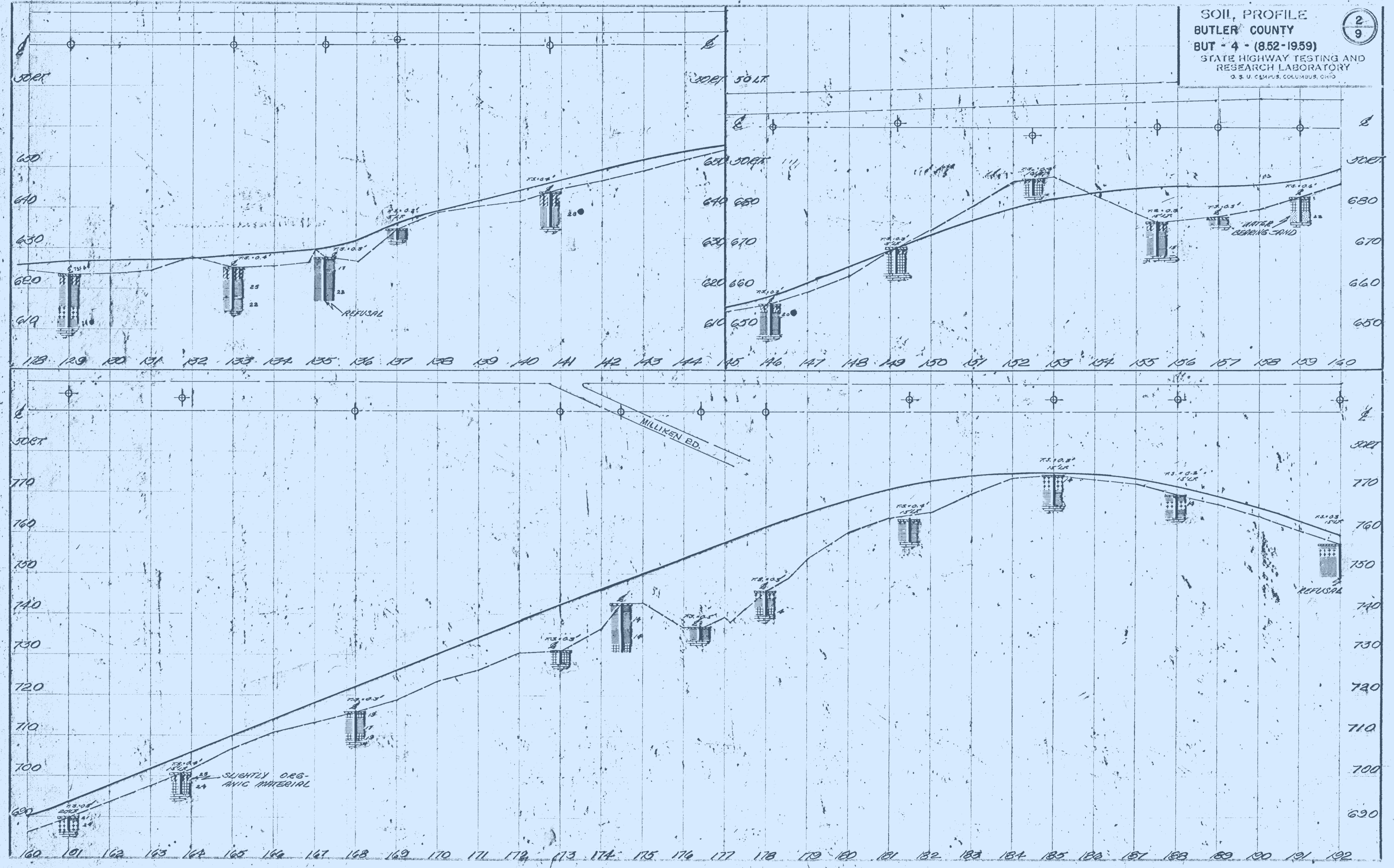
AUGER BORING - PLAN VIEW. BERM MATERIAL. FREE WATER.



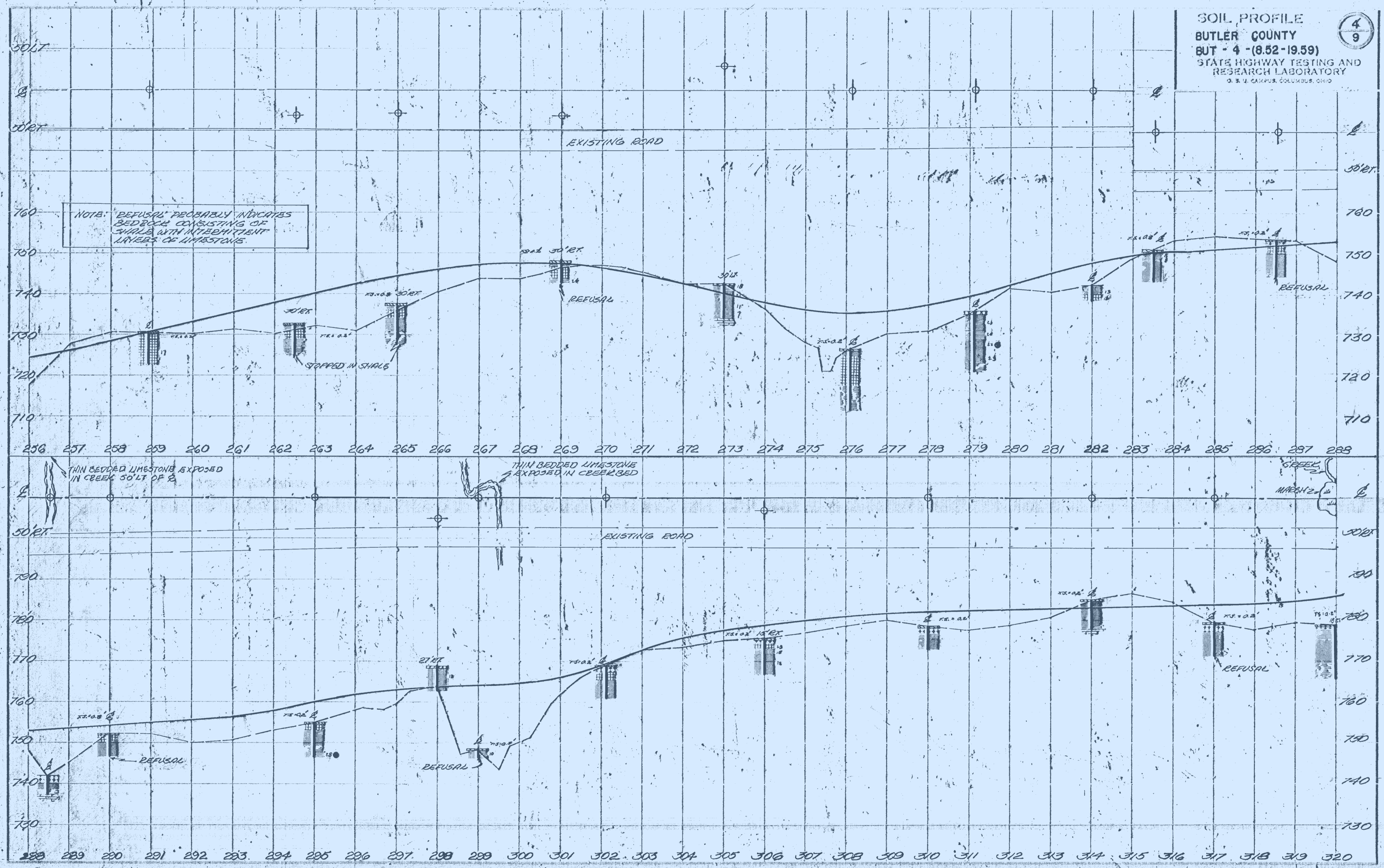
8.23.54
 W.C.
 G.L.H.

SOIL PROFILE
 BUTLER COUNTY
 BUT - 4 - (852-1959)
 STATE HIGHWAY TESTING AND
 RESEARCH LABORATORY
 O. S. U. CAMPUS, COLUMBUS, OHIO

2
9



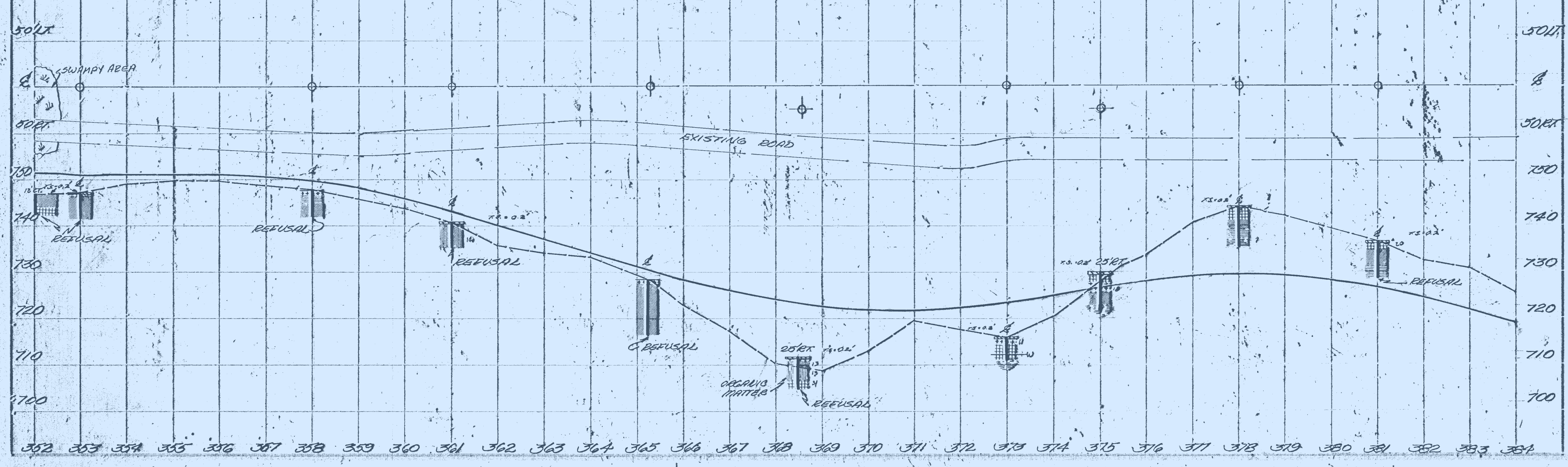
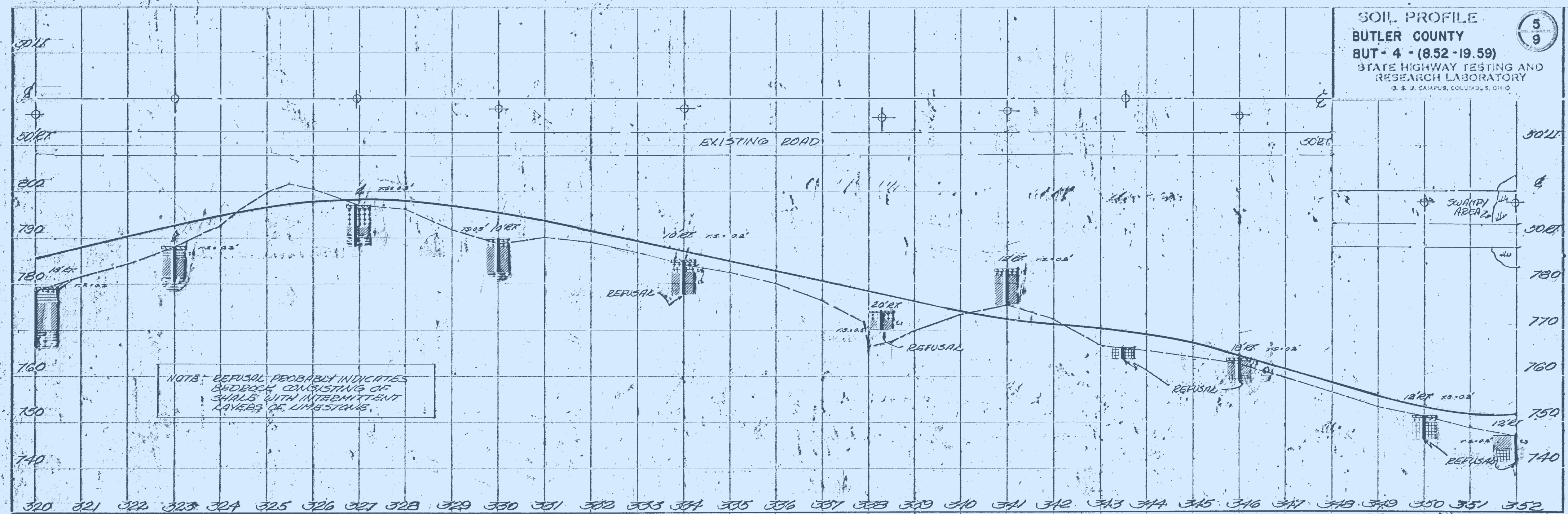
R.M.



31-2-12-10

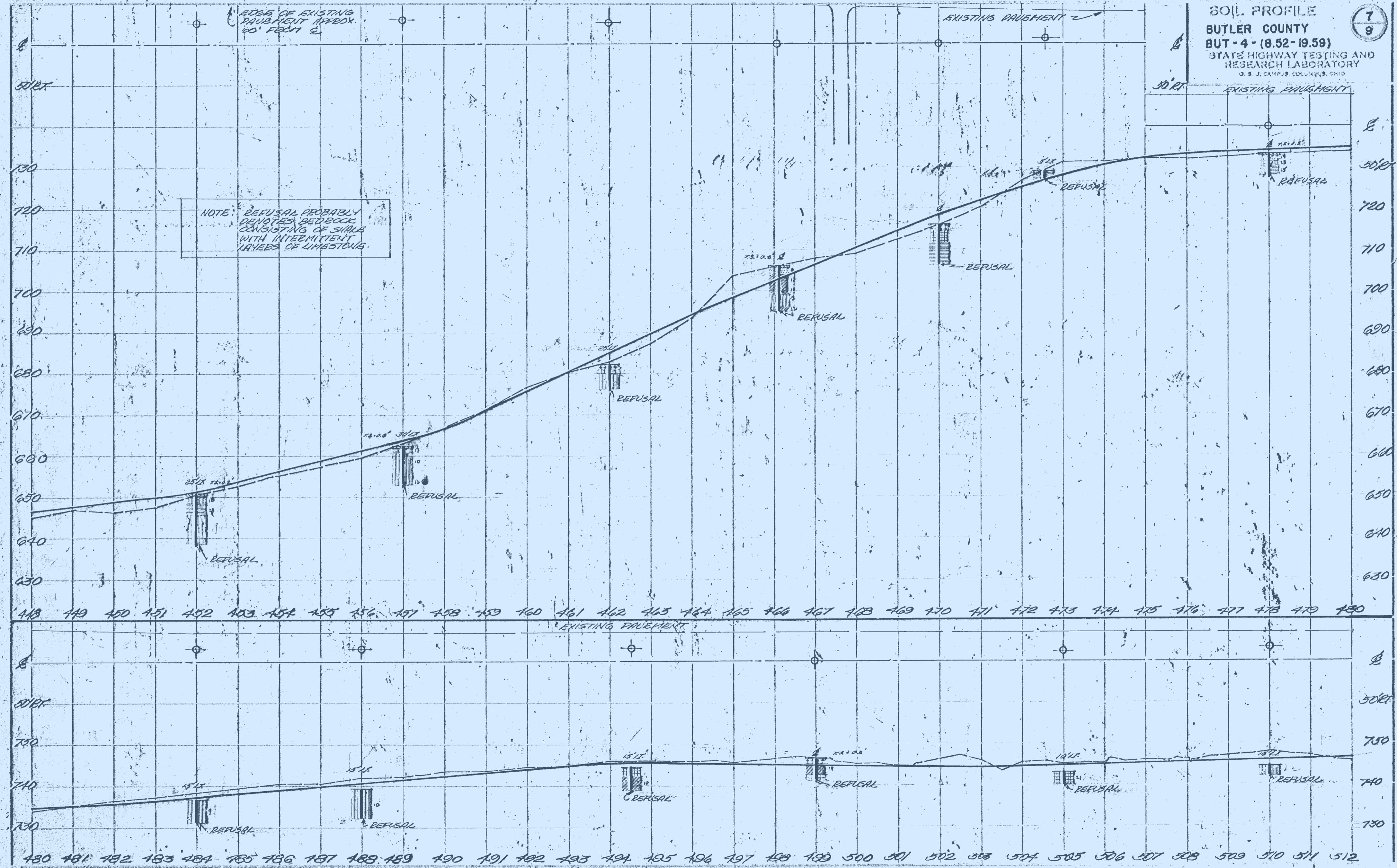
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5
9



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7
8



NOTE: REFUSAL PROBABLY DENOTES BEDROCK CONSISTING OF SHALE WITH INTERMITTENT LAYERS OF LIMESTONE.

EDGE OF EXISTING PAVEMENT APPROX. 60' FROM E

EXISTING PAVEMENT

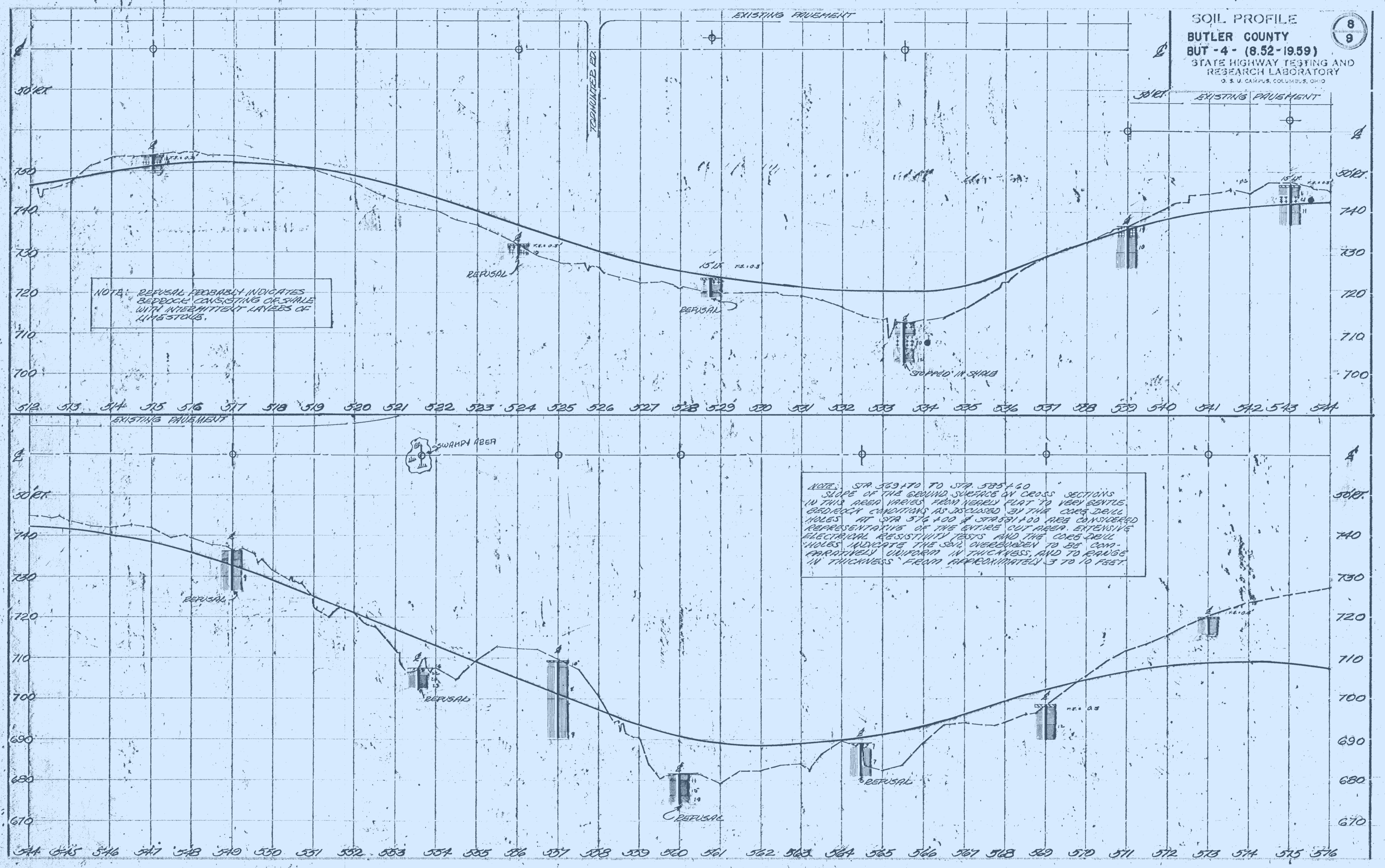
EXISTING PAVEMENT

448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480

480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512

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8
9



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97
 9

