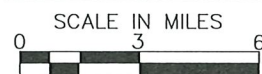


LOCATION MAP



PORTION TO BE IMPROVED

FEDERAL ROUTES

STATE ROUTES

TOWNSHIP LINE

DESIGN DESIGNATION

Current ADT CR 2 (2020) 362
 Current ADT CR 11 (2020) 498
 Current ADT CR 13 (2020) 855
 Current ADT CR 34 (2020) 2212
 Current ADT CR 77 (2020) 279

Design Functional Classification CR 2, CR 13 Rural Major Collector
 CR 11, CR34, CR 77 Rural Minor Collector

Legal Speed 55 MPH

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)

FEDERAL RD, ROSEDALE MILFORD CENTER RD
 OLD SPRINGFIELD RD, CEMETERY PIKE, &
 PRAIRIE RD RESURFACING PROJECT
 MAD-CR2-0.00, MAD-CR11-0.00,
 MAD-CR13-0.00, MAD34-0.00, MAD CR77-0.00
 VARIOUS TOWNSHIPS
 MADISON COUNTY, OHIO

INDEX OF SHEETS

TITLE SHEET	1
GENERAL NOTES	2
GENERAL NOTES - 404LV SPECIFICATION	3
GENERAL SUMMARY	4
TYPICAL SECTION & ASPHALT DATA SUBSUMMARY - CR2	5
TYPICAL SECTION & ASPHALT DATA SUBSUMMARY - CR11	6
TYPICAL SECTION & ASPHALT DATA SUBSUMMARY - CR13	7
TYPICAL SECTION & ASPHALT DATA SUBSUMMARY - CR34	8
TYPICAL SECTION & ASPHALT DATA SUBSUMMARY - CR77	9
STRIPING PLAN - CR2	10
STRIPING PLAN - CR11	11-16
STRIPING PLAN - CR13	17-19
STRIPING PLAN - CR34	20-21
STRIPING PLAN - CR77	22-23

PART	ROUTE	SECTIONS	PROJECT TERMINI		NET LENGTH MILES	TOWNSHIP	CITY	VILLAGE
			BEGIN	END				
1	CR 2	ALL	0.00	1.822	1.822	STOKES		
2	CR 11	ALL	0.00	8.349	8.349	MONROE & PIKE		
2	CR 13	ALL	0.00	4.615	4.615	UNION		
2	CR 34	ALL	0.08	1.691	1.611	DARBY		
2	CR 77	ALL	0.00	2.053	2.053	RANGE		

PLANS PREPARED BY:
 MADISON COUNTY ENGINEER
 825 US 42 NE
 LONDON, OHIO 43140

BRYAN D. DHUME
 MADISON COUNTY ENGINEER

BRYAN D. DHUME P.E. 72212



STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	
BP-3.1	01-17-20	TC-42.20	10-18-13	800	10-21-16
BP-4.1	07-09-13	TC-52.10	10-18-13	832	1-17-14
		TC-52.20	01-15-21	826	1-15-16
MT-97.10	04-19-19				
MT-97.12	01-20-17				
MT-99.20	04-19-19				
MT-101.90	07-17-20				
MT-105.10	01-17-20				

PROJECT DESCRIPTION:

THIS PROJECT IS TO RESURFACE AND STRIPE FEDERAL RD (CR2) FROM 0.00 TO 1.822, ROSEDALE MILFORD CENTER RD (CR11) FROM 0.00 TO 8.349, OLD SPRINGFIELD RD (CR13) FROM 0.00 TO 4.615, CEMETERY PIKE (CR34) FROM 0.08 TO 1.691, AND PRAIRIE RD (CR77) FROM 0.00 TO 2.053 IN VARIOUS TOWNSHIPS OF MADISON COUNTY, OHIO.

PROJECT EARTH DISTURBED AREA: = N/A "MAINTENANCE PROJECT"

ESTIMATED CONTRACTOR EARTH DISTURBED AREA: = N/A "MAINTENANCE PROJECT"

NOTICE OF INTENT EARTH DISTURBED AREA: = N/A "MAINTENANCE PROJECT"

2019 SPECIFICATIONS

ALL MATERIALS AND PROCEDURES TO BE IN ACCORDANCE WITH THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, CONSTRUCTION AND MATERIAL SPECIFICATIONS, DATED JANUARY 1, 2019 AND ANY SUPPLEMENTAL SPECIFICATIONS.

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

WE, THE COMMISSIONERS OF MADISON COUNTY IN FORMAL SESSION, HEREBY APPROVE THESE PLANS.

MADISON COUNTY COMMISSIONERS

Leg. Xerkin
John A. Wall

Mark A. Forest

DATE: 11/16/21

PROJECT: MAD-CR2-0.00, CR11-0.00, CR13-0.00, CR34-0.00, & CR77-0.00
 DATE OF LETTING: _____ TIME: _____

FED. NO. E200 (968)
 DRAWN JDC
 CHECKED BDD
 TITLE SHEET AND LOCATION MAP
 PID NO. 113419
 RAILROAD INVOLVEMENT NONE
 MAD-CR2-0.00, CR11-0.00, CR13-0.00, CR34-0.00, & CR77-0.00
 1/1
 16

Revised June 5, 2015

- 404LVT.01 Description
- 404LVT.02 Composition
- 404LVT.021 Quality Control
- 404LVT.03 Materials
- 404LVT.04 Use of Reclaimed Pavement
- 404LVT.05 Mixing Plants
- 404LVT.06 Weather Limitations
- 404LVT.07 Notification
- 404LVT.08 Asphalt Binder Preparation
- 404LVT.09 Aggregate Preparation
- 404LVT.10 Mixing
- 404LVT.11 Hauling
- 404LVT.12 Spreading Equipment
- 404LVT.13 Rollers
- 404LVT.14 Conditioning Existing Surface
- 404LVT.15 Spreading and Finishing
- 404LVT.16 Compaction
- 404LVT.17 Joints
- 404LVT.18 Asphalt Binder Compatibility
- 404LVT.19 Spreading and Surface Tolerances
- 404LVT.20 Asphalt Binder Price Adjustment
- 404LVT.21 Method of Measurement
- 404LVT.22 Acceptance and Basis of Payment

404LVT.01 Description.

This work consists of constructing a 1-inch thick surface course or variable depth intermediate course of aggregate and asphalt binder for use in low volume traffic applications.

Mix aggregate and asphalt binder in a central plant and spread and compact on a prepared surface according to these specifications and in reasonably close conformity with the lines, grades and typical sections shown on the plans or established by the Engineer. All specification references herein are to the Ohio Department of Transportation, 2013 Construction & Materials Specifications.

The requirements of specification 401 do not apply except where noted.

Asphalt concrete mix pavement thickness shown on the plans or stated in the proposal is for exclusive use in calculating the weight required to be placed per unit of surface area.

Section .22 includes a pay adjustment mechanism for mix that deviates from the job mix formula. Mix having binder content below the job mix formula, but within specification tolerances, will receive an adjustment commensurate to the amount of lacking binder. No payment is made for binder content in excess of the job mix formula.

404LVT.02 Composition.

Establish a Job Mix Formula (JMF) by combining coarse aggregate, fine aggregate, reclaimed asphalt pavement (RAP) and asphalt binder in proportions that result in an asphalt mixture meeting the blend limits in Table 1. Note: a minimum of 50% of the virgin fine aggregate must be natural sand, 703.05

ITEM 404LVT (LOW VOLUME TRAFFIC) ASPHALT CONCRETE

TABLE 1

MIXTURE PROPORTIONS		
Sieve	Total Percent Passing	
1/2 inch	100	
3/8 inch	90 to 100	
No. 4	72	
No. 8	42 to 60	
No. 16	27 to 45	
No. 50	10 to 22	
No. 200	0 to 8	
Total binder content (% by weight of mix):	GRAVEL COARSE AGGREGATE: 6.6 (NOTE 1,2) LIMESTONE COARSE AGGREGATE 6.8 (NOTE 1,2) GRAVEL/LIMESTONE COARSE AGGREGATE BLENDS: 6.7 (NOTE 1,2) SLAG AGGREGATE BLENDS: AS DETERMINED BY MARSHALL MIX DESIGN PROCESS; MEDIUM TRAFFIC; BINDER CONTENT SELECTION AT 2.5% AIR Voids. NOTE 1: INCREASE BINDER CONTENT 0.2% FOR COARSE AGGREGATE HAVING ABSORPTION > 4.0 NOTE 2: THE ENGINEER MAY ADJUST THE BINDER CONTENT. COMPENSATION WILL BE MADE ACCORDING TO 404LVT.22	
Virgin binder min. (% by weight of mix)	Gravel coarse aggregate: 5.6 Limestone coarse aggregate: 5.8	
Traffic volume (ADT):	2500 max.	
Binder Grades:	PG 58-28	PG 64-22
Limits for Reclaimed Asphalt Pavement (% by weight of mix):	20 max.	10 max.

404LVT.021 Quality Control

Ensure quality control personnel, testing devices, and facilities meet the requirements of Supplement 1041. Meet the requirements of Item 403 except 403.04 and 403.05. Calibrate asphalt content nuclear gauges according to Supplement 1043. Perform quality control testing according to the frequency provided in Table 2. Obtain mix samples at the mixing plant.

TABLE 2

QUALITY CONTROL TESTING SCHEDULE			
DAILY FREQUENCY		TESTS	SAMPLE TYPE
WITHIN FIRST 100 TNS		BINDER CONTENT, GRADATION	COMPLETED MIX
EACH 400 TN	THEREAFTER	BINDER CONTENT, GRADATION	COMPLETED MIX

During production investigate and correct variation from the JMF, as shown by the quality control analysis, of plus or minus 4 percent passing the No. 4 sieve or plus or minus 0.3 percent binder.

If variation exceeds the limits in Table 3 immediately cease production until the cause for variation is determined and corrections made. Notify the Engineer.

TABLE 3

DEVIATION FROM THE DESIGN		
MIX CHARACTERISTIC	FROM THE DESIGN	RANGE
BINDER CONTENT	+/- 0.5%	1.0
NO. 4 SIEVE	+/- 6%	12

404LVT.03 Materials. Furnish materials conforming to Table 4.

TABLE 4

Material	Specification
Asphalt binder	702.01
Aggregate	703.053
Mineral filler	703.07
Polymer	702.14

Note 3: Do not apply the gradation requirements for fine aggregate.

404LVT.04 Use of Reclaimed Asphalt Pavement

Process recycled asphalt pavement such that it passes a 9/16-inch sieve and when incorporated ensures a one-half inch maximum aggregate size.

404LVT.05 Mixing Plants. Apply the requirements of 401.05

404LVT.06 Weather Limitations. Apply the requirements of 401.06

404LVT.07 Notification. Apply the requirements of 401.07

404LVT.08 Asphalt Binder Preparation. Apply the requirements of 401.08

404LVT.09 Aggregate Preparation. Apply the requirements of 401.09

404LVT.10 Mixing. Apply the requirements of 401.10 Asphalt mixtures may be produced using the warm mix asphalt method according to 402.09

404LVT.11 Hauling. Apply the requirements of 401.11

404LVT.12 Spreading Equipment. Apply the requirements of 401.12

404LVT.13 Rollers. Apply the requirements of 401.13

404LVT.14 Conditioning Existing Surface. Apply the requirements of 401.14

404LVT.15 Spreading and Finishing.

Ensure spreading operations result in a mat texture that is uniform and free of deficiencies such as tears, drags or other blemishes. Remove and replace areas of deficient mat texture.

Apply the requirements of 401.15

404LVT.16 Compaction. Apply the requirements of 401.16

404LVT.17 Joints. Apply the requirements of 401.17

404LVT.18 Asphalt Binder Compatibility. Apply the requirements of 401.18

404LVT.19 Spreading and Surface Tolerances. Apply the requirements of 401.19

404LVT.20 Asphalt Binder Price Adjustment. Apply the requirements of ODOT proposal note 534.

404LVT.21 Method of Measurement. Apply the requirements of 401.21

404LVT.22 Acceptance and Basis of Payment.

Apply the requirements of 401.22
Acceptance for gradation and binder content will be based upon the mean of the results of all required quality control tests performed during a days production.

The pavement owner is responsible for verification testing according to 403.06.

Production will be considered acceptable if the tolerances shown in Table 3 are not exceeded and the remaining sieves do not exceed the limits of the applicable specifications. In the event material does not meet these requirements but that reasonably acceptable material has been produced, the Engineer will make a determination if the deficient work will be accepted and remain in place. If accepted, payment will equal 90 percent of the bid item cost for deviations related to aggregate gradation; 70 percent for binder deviations.

Payment for accepted quantities, complete in place, will be based on the following formula: $CY \times [Unit Price + 2B(BADJUST - BC)]$

Where CY = cubic yards of asphalt concrete

Unit Price = unit price bid for the item

BC = Binder Correction factor.

BC = BJMF-BACTUAL if BJMF>BACTUAL

BC = 0 if BJMF < BACTUAL

BACTUAL = Mean binder content of material placed, excluding deficient material removed or accepted at reduced pay

BADJUST = (%) binder adjustment (Table 1, Note 2)

BBID = specified bin

Pay Items	Unit	Description
404LVT	Cubic Yard	404LVT, Asphalt Concrete, PG 58-28
404LVT	Cubic Yard	404LVT, Asphalt Concrete, PG 64-22

DRAWN JDC
CHECKED ???

GENERAL NOTES
Item 441 Asphalt Concrete MISC: Item 404LVT (Low Volume) Asphalt Concrete

MAD-CR2-0.00, CR11-0.00,
CR13-0.00, CR34-0.00,
& CR77-0.00

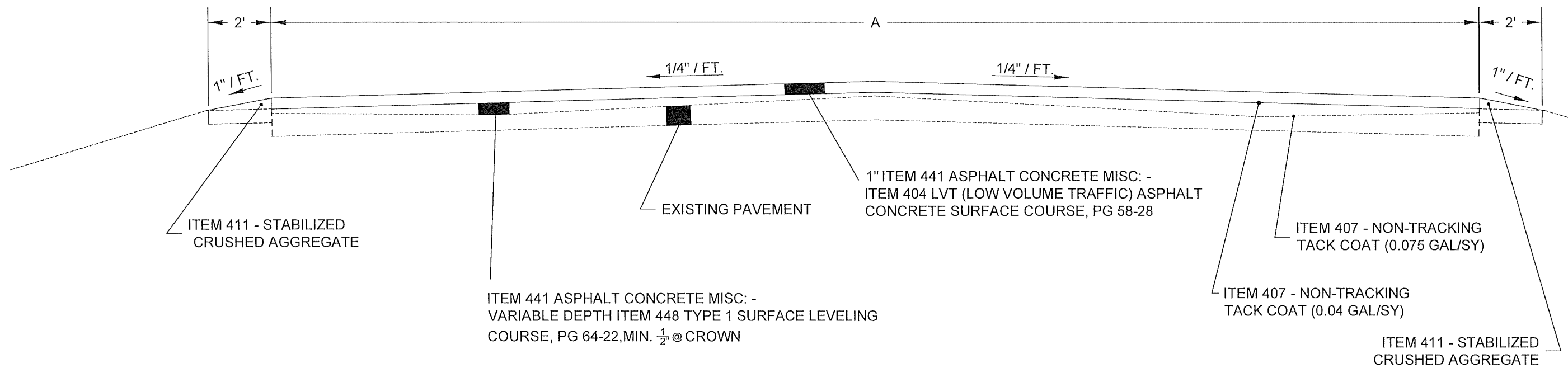
2 / 2

3
16

SHEET NUMBER					ITEM		PARTICIPATION								UNIT	DESCRIPTION	SEE SHEET NO.
5	6	7	8	9	ITEM	ITEM EXT.	01/NFA/PV FEDERAL	01/NFA/PV LOCAL	02/S<2/PV/LON FEDERAL	02/S<2/PV/LON LOCAL	03/STR/PV/LON FEDERAL	03/STR/PV/LON LOCAL	GRAND TOTAL	UNIT	DESCRIPTION	SEE SHEET NO.	
66	238	138	160	80	254	01000	382.40	95.60	36.80	9.20	126.40	31.60	682	SY	PAVEMENT PLANNING, ASPHALT CONCRETE		
PAVEMENT																	
2542	12123	6544	2465	2773	407	10000	13888.80	3472.20	1841.60	460.40	5427.20	1356.80	26447	GAL	TACK COAT		
240	1102	611	213	272	411	10000	1269.60	317.40	263.20	65.80	417.60	104.40	2438	CY	STABILIZED AGGREGATE		
616	2938	1587		670	441	90000	2886.40	721.60	685.60	171.40	1076.80	269.20	5811	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE I, (404 LVT), PG 58-28		
			596		441	50000	476.80	119.20	0.00	0.00	0.00	0.00	596	CY	ASPHALT CONCRETE SURFACE COURSE, TYPE I, PG 64-22		
616	2938	1587	596	670	441	50200	3363.20	840.80	685.60	171.40	1076.80	269.20	6407	CY	ASPHALT CONCRETE INTERMED. COURSE, TYPE I, PG 64-22		
22096	105316	56861	21412	24088	690	12150	120652.80	30163.20	24562.40	6140.60	38603.20	9650.80	229773	SY	SPECIAL - ASPHALT REJUVENATING AGENT		
TRAFFIC																	
1.978	8.30	4.58	1.75	2.03	642	00300	9.66	2.42	1.99	0.4984	3.25	0.8132	18.638	MILES	CENTERLINE, Type 1	10-16	
3.5	17.22	9.44	3.40	4.12	642	00100	19.79	4.948	3.99	0.997	6.36	1.591	37.680	MILES	EDGE LINE, 4", Type 1	10-16	
			264		642	00400	211.20	52.80	0.00	0.00	0.00	0.00	264	FOOT	CHANNELIZING LINE, 8", TYPE 1	13	
			1.00		642	01300	0.80	0.20	0.00	0.00	0.00	0.00	1	EACH	LANE ARROW, TYPE 1	13	
MAINTENANCE OF TRAFFIC																	
1.978	8.30	4.58	1.75	2.03	614	21500	9.66	2.416	1.99	0.498	3.25	0.813	18.638	MILES	WORK ZONE CENTERLINE, CLASS II, 642 PAINT		
MISCELLANEOUS																	
					103	06000	0.80	0.20	0.00	0.00	0.00	0.00	LUMP	SUM	PREMIUM FOR CONTRACT PERFORMANCE BOND		
					614	11000	0.80	0.20	0.00	0.00	0.00	0.00	LUMP	SUM	MAINTAINING TRAFFIC		
					623	10000	0.80	0.20	0.00	0.00	0.00	0.00	LUMP	SUM	CONSTRUCTION LAYOUT STAKES		
					624	10000	0.80	0.20	0.00	0.00	0.00	0.00	LUMP	SUM	MOBILIZATION		

Split #	Category	Plan Split Code	Description
1	Not on the Federal Aid System	01/NFA/PV	80% CEAO CSTP Funding to resurface CR 11, CR 34 and CR 77
2	STP < 200000	02/S<2/PV/LON	80% CEAO CSTP Funding to resurface CR-13 from 2.123 to 4.615
3	STP Rural	03/STR/PV/LON	80% CEAO CSTP Funding to resurface CR 2 and CR 13.

TYPICAL SECTION (A)
CR2



PAVEMENT DATA																				
PART	ROUTE	FROM		TO		LENGTH		TYPICAL	A AVG. WIDTH FEET	EXISTING PAVEMENT TYPE	PROPOSED PAVEMENT TYPE	PAVEMENT AREA SQ. YD.	ASPHALT CONCRETE						REMARKS	
		SLD	SLD	MILES	FEET	ITEM 254	ITEM 407						ITEM 441		ITEM 407	ITEM 441		ITEM 411 COMPACTED AGGREGATE TYPE A		
						PAVEMENT PLANING, ASPALT CONCRETE	NON-TRACKIN G TACK COAT @ 0.075 GAL/SY						ITEM 448, ASP. CONC. INTERMED. COURSE, TYPE 1, PG 64-22		NON-TRACK ING TACK COAT @ 0.040 GAL/SY	ITEM 404LV, ASP. CONC. SURFACE COURSE, TYPE 1, PG 58-28		AVG THICK		AVG THICK
1	CR2	0.000	0.500	0.500	2640	A	20.67	422	404LVT	6064	26	455	1	169	243	1	169	2	66	butt joint @ green co line STA 00+00
1	CR2	0.500	0.848	0.348	1837	A	20.67	422	404LVT	4219	20	316	1	118	169	1	118	2	46	butt joint @ C81 RT STA 44+42.00
1	CR2	0.848	1.348	0.500	2640	A	20.67	422	404LVT	6064		455	1	169	243	1	169	2	66	
1	CR2	1.348	1.822	0.474	2503	A	20.67	422	404LVT	5749	20	431	1	160	230	1	160	2	62	Butt joint @ T89 LT STA 74+70, South Solon City Limits STA 97+64
Totals				1.822						22096	66	1657		616	885		616		240	

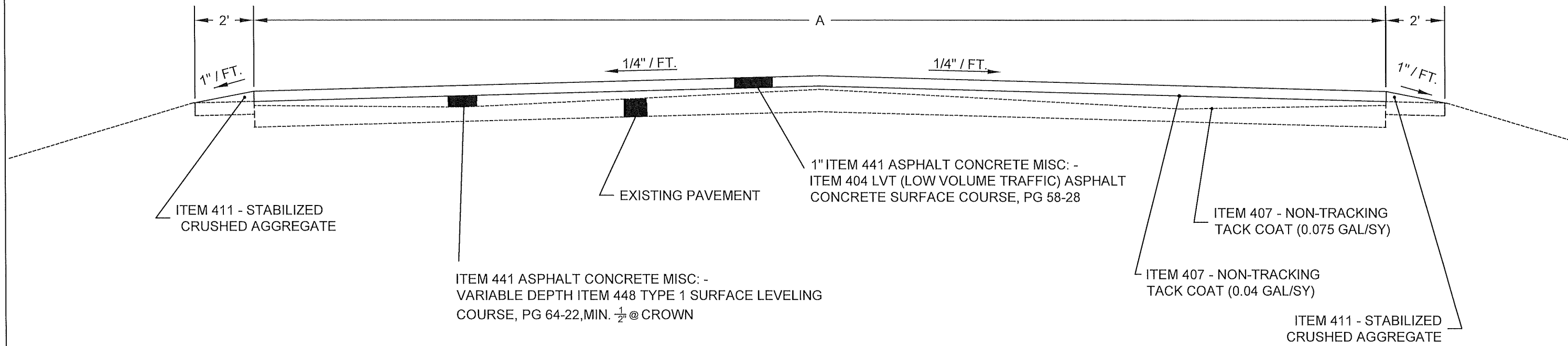
DRAWN
JDC
CHECKED
BDD

TYP SECTION & ASPHALT
CONCRETE DATA SUBSUMMARY - CR2

BRYAN D. DHUME P.E., P.S.
MADISON COUNTY ENGINEER
825 US 42 NE, LONDON, OHIO

MAD-CR2-0.00, CR11-0.00,
CR13-0.00, CR34-0.00,
& CR77-0.00

TYPICAL SECTION (B)
CR11



PAVEMENT DATA																					
PART	ROUTE	FROM		TO		LENGTH	TYPICAL	A AVG. WIDTH FEET	EXISTING PAVEMENT TYPE	PROPOSED PAVEMENT TYPE	PAVEMENT AREA	ASPHALT CONCRETE						REMARKS			
		SLD	SLD	MILES	FEET							ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE	ITEM 407 NON-TRACKING TACK COAT @ 0.075 GAL/SY	ITEM 441		ITEM 407 NON- TRACKING TACK COAT @ 0.040 GAL/SY	ITEM 441		ITEM 411 COMPACTED AGGREGATE TYPE A		
														AVG THICK			AVG THICK			AVG THICK	
						SQ. YD.	SQ. YD.	GAL	IN.	CU. YD.	GAL	IN.	CU. YD.	IN.	CU. YD.						
2	CR11	0.000	0.500	0.500	2640	B	21.5	422	404LVT	6307	69	473	1	176	253	1	176	2	66	BUTT JOINT @ SR 38 STA 0+00, BUTT JOINTS AT BRIDGE 11-0.6 STA 33+14 & 33+70	
2	CR11	0.500	1.000	0.500	2640	B	21.5	422	404LVT	6307		473	1	176	253	1	176	2	66		
2	CR11	1.000	1.500	0.500	2640	B	21.5	422	404LVT	6307		473	1	176	253	1	176	2	66		
2	CR11	1.500	2.000	0.500	2640	B	21.5	422	404LVT	6307		473	1	176	253	1	176	2	66		
2	CR11	2.000	2.500	0.500	2640	B	21.5	422	404LVT	6307		473	1	176	253	1	176	2	66		
2	CR11	2.500	3.000	0.500	2640	B	21.5	422	404LVT	6307		473	1	176	253	1	176	2	66		
2	CR11	3.000	3.402	0.402	2123	B	21.5	422	404LVT	5072	54	380	1	141	203	1	141	2	53	BUTT JOINT @ CR27 LT STA 183+69	
2	CR11	3.402	3.902	0.500	2640	B	21.5	422	404LVT	6307	25	473	1	176	253	1	176	2	66	BUTT JOINTS @ BRIDGE 11-3.50 STA 188+97 & 190+15	
2	CR11	3.902	4.402	0.500	2640	B	21.5	422	404LVT	6307		473	1	176	253	1	176	2	66		
2	CR11	4.402	4.714	0.312	1647	B	21.5	422	404LVT	3935	45	295	1	110	158	1	110	2	41	BUTT JOINTS @ CR 123 LT & RT STA 254+25	
2	CR11	4.714	5.214	0.500	2640	B	21.5	422	404LVT	6307		473	1	176	253	1	176	2	66		
2	CR11	5.214	5.714	0.500	2640	B	21.5	422	404LVT	6307		473	1	176	253	1	176	2	66		
2	CR11	5.714	5.853	0.139	734	B	21.5	422	404LVT	1754	45	132	1	49	71	1	49	2	19	BUTT JOINTS @ CR 25 LT & RT STA 316+15	
2	CR11	5.853	6.353	0.500	2640	B	21.5	422	404LVT	6307		473	1	176	253	1	176	2	66	ROSEDALE	
2	CR11	6.353	6.853	0.500	2640	B	21.5	422	404LVT	6307		473	1	176	253	1	176	2	66		
2	CR11	6.853	7.353	0.500	2640	B	21.5	422	404LVT	6307		473	1	176	253	1	176	2	66		
2	CR11	7.353	7.853	0.500	2640	B	21.5	422	404LVT	6307		473	1	176	253	1	176	2	66		
2	CR11	7.853	8.349	0.496	2619	B	21.5	422	404LVT	6257		469	1	174	251	1	174	2	65	BUTT JOINT AT UNION COUNTY LINE	
Totals				8.349						105316	238	7898		2938	4225		2938		1102		

DRAWN
JDC
CHECKED
BDD

TYP SECTION & ASPHALT
CONCRETE DATA SUBSUMMARY - CR11

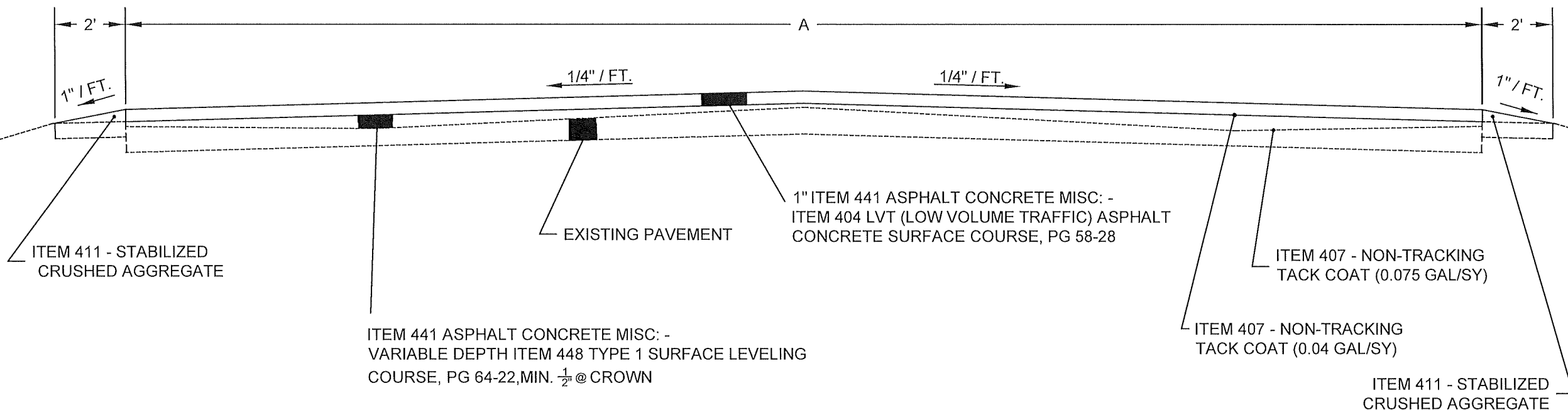
BRYAN D. DHUME P.E., P.S.
MADISON COUNTY ENGINEER
825 US 42 NE, LONDON, OHIO

MAD-CR2-0.00, CR11-0.00,
CR13-0.00, CR34-0.00,
& CR77-0.00

2 / 5

6
16

TYPICAL SECTION (C)
CR13



PAVEMENT DATA

PART	ROUTE	FROM	TO	LENGTH		TYPICAL	A AVG. WIDTH FEET	EXISTING PAVEMENT TYPE	PROPOSED PAVEMENT TYPE	PAVEMENT AREA SQ. YD.	ASPHALT CONCRETE								REMARKS	
											ITEM 254 PAVEMENT PLANING, ASPALT CONCRETE	ITEM 407 NON- TRACKING TACK COAT @ 0.075 GAL/SY	ITEM 441		ITEM 407 NON-TRACK ING TACK COAT @ 0.040 GAL/SY	ITEM 441		ITEM 411 COMPACTED AGGREGATE TYPE A		
													ITEM 448, ASP. CONC. INTERMED. COURSE, TYPE 1, PG 64-22			ITEM 404LV, ASP. CONC. SURFACE COURSE, TYPE 1, PG 58-28		ITEM 411 COMPACTED AGGREGATE TYPE A		
													AVG THICK	CU. YD.		AVG THICK	CU. YD.	AVG THICK		CU. YD.
3	CR13	0.000	0.008	0.008	42.24	C	21	422	404LVT	99	23	7	1	3	4	1	3	2	2	BUTT JOINT @ CLARK CO. LINE STA 0+00
3	CR13	0.008	0.400	0.392	2070	C	21	422	404LVT	4830	23	362	1	135	194	1	135	2	52	BUTT JOINT @ T105 LT STA 1+10
3	CR13	0.400	0.885	0.485	2561	C	21	422	404LVT	5976	23	448	1	166	240	1	166	2	64	BUTT JOINT @ T106 LT STA 22+24
3	CR13	0.885	1.385	0.500	2640	C	21	422	404LVT	6160		462	1	172	247	1	172	2	66	BUTT JOINT @ T95 LT STA 48+40
3	CR13	1.385	1.885	0.500	2640	C	21	422	404LVT	6160		462	1	172	247	1	172	2	66	
3	CR13	1.885	2.123	0.238	1257	C	21	422	404LVT	2933	23	220	1	82	118	1	82	2	32	
3	CR13	2.123	2.488	0.365	1927	C	21	422	404LVT	4497	23	337	1	125	180	1	125	2	48	BUTT JOINT @ T96 LT STA 115+52
3	CR13	2.488	2.988	0.500	2640	C	21	422	404LVT	6160		462	1	172	247	1	172	2	66	BUTT JOINT @ T96 RT STA 135+24
3	CR13	2.988	3.488	0.500	2640	C	21	422	404LVT	6160		462	1	172	247	1	172	2	66	
3	CR13	3.488	3.988	0.500	2640	C	21	422	404LVT	6160		462	1	172	247	1	172	2	66	
3	CR13	3.988	4.488	0.500	2640	C	21	422	404LVT	6160		462	1	172	247	1	172	2	66	
3	CR13	4.488	4.615	0.127	671	C	21	422	404LVT	1566	23	117	1	44	63	1	44	2	17	BUTT JOINT @ LONDON CITY LIMITS STA 249+62
Totals				4.615						56861	138	4263		1587	2281		1587		611	

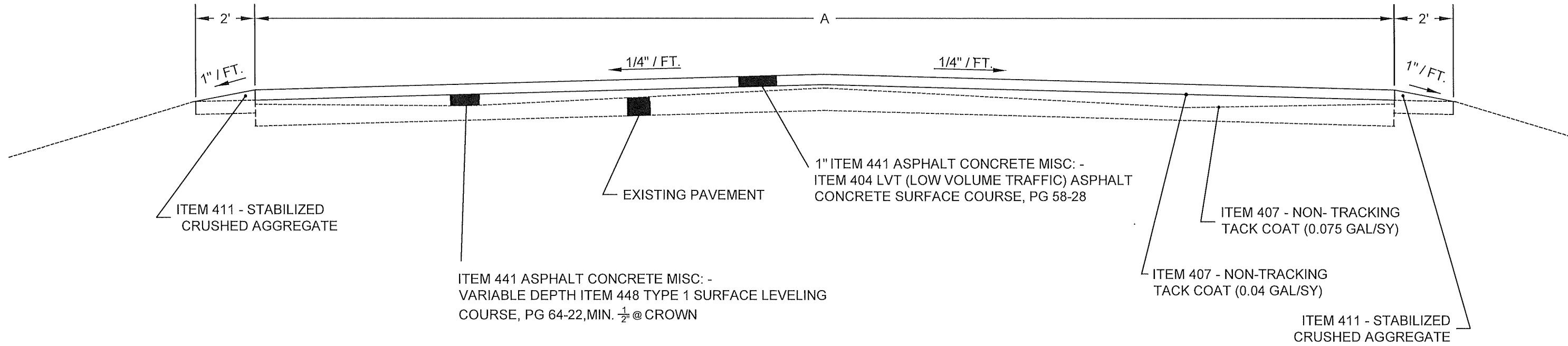
DRAWN
JDC
CHECKED
BDD

TYP SECTION & ASPHALT
CONCRETE DATA SUBSUMMARY - CR13

BRYAN D. DHUME P.E., P.S.
MADISON COUNTY ENGINEER
825 US 42 NE, LONDON, OHIO

MAD-CR2-0.00, CR11-0.00,
CR13-0.00, CR34-0.00,
& CR77-0.00

TYPICAL SECTION (D)
CR34



PART	ROUTE	FROM	TO	LENGTH		TYPICAL	A AVG. WIDTH FEET	EXISTING PAVEMENT TYPE	PROPOSED PAVEMENT TYPE	PAVEMENT AREA SQ. YD.	PAVEMENT DATA								REMARKS	
											ITEM 254 PAVEMENT PLANING, ASPHALT CONCRETE SQ. YD.	ITEM 407 NON-TRACKING TACK COAT @ 0.075 GAL/SY GAL	ITEM 441		ITEM 407 NON-TRACKING TACK COAT @ 0.040 GAL/SY GAL	ITEM 441		ITEM 411 COMPACTED AGGREGATE TYPE A		
													ITEM 448, ASP. CONC. INTERMED. COURSE, TYPE 1, PG 64-22			ITEM 448, ASP. CONC. SURFACE COURSE, TYPE 1, PG 64-22		ITEM 411		
													AVG THICK IN.	CU. YD.		AVG THICK IN.	CU. YD.	AVG THICK IN.		CU. YD.
4	CR34	0.080	0.391	0.311	1642.08	D	24	422	404LVT	4379	80	328	1	122	176	1	122	2	41	BUTT JOINTS AT MAD 34-0.05 STA 3+92, MAD 34-0.40 STA 18+67 & 19+76
4	CR34	0.391	0.891	0.500	2640	D	22.33	422	404LVT	6551	34	491	1	182	263	1	182	2	66	BUTT JOINT @ CR37 RT STA 20+60
4	CR34	0.891	1.391	0.500	2640	D	22.33	422	404LVT	6551		491	1	182	263	1	182	2	66	
4	CR34	1.391	1.413	0.022	116	D	22.33	422	404LVT	288	23	22	1	8	12	1	8	2	3	BUTT JOINT @ CR35 RT STA 75+50
4	CR34	1.413	1.691	0.278	1468	D	22.33	422	404LVT	3643	23	273	1	102	146	1	102	2	37	BUTT JOINT @ SR161 STA 90+14
Totals				1.611						21412	160	1605		596	860		596		213	

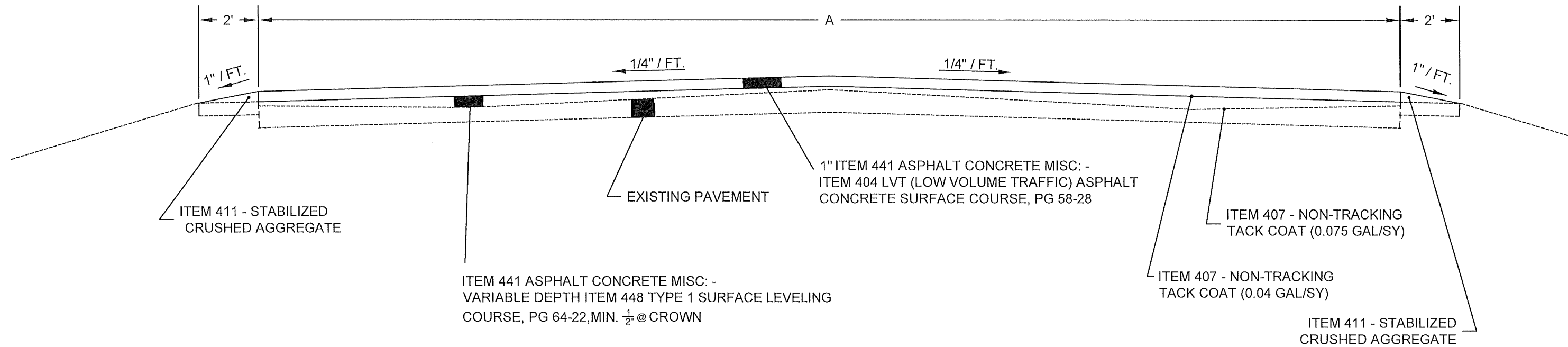
DRAWN
JDC
CHECKED
BDD

TYP SECTION & ASPHALT
CONCRETE DATA SUBSUMMARY - CR34

BRYAN D. DHUME P.E., P.S.
MADISON COUNTY ENGINEER
825 US 42 NE, LONDON, OHIO

MAD-CR2-0.00, CR11-0.00,
CR13-0.00, CR34-0.00,
& CR77-0.00

TYPICAL SECTION (E)
CR77



PAVEMENT DATA

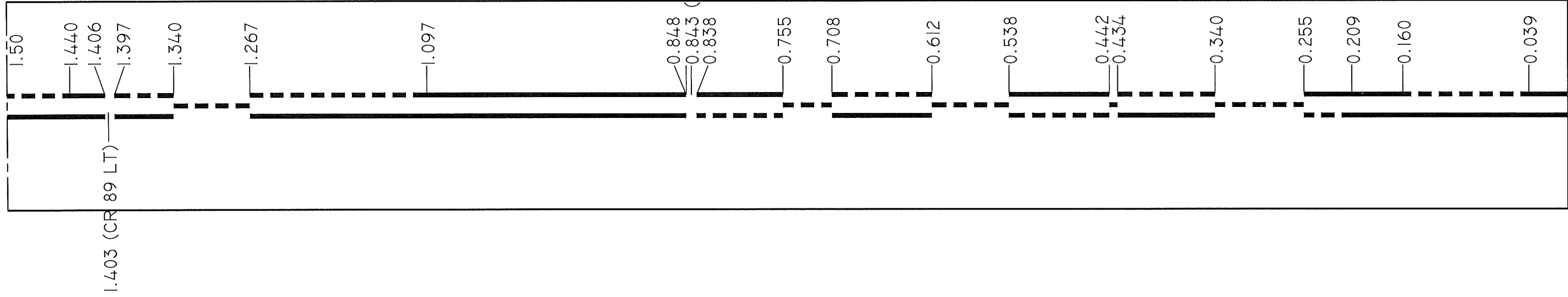
PART	ROUTE	FROM	TO	LENGTH		TYPICAL	A AVG. WIDTH FEET	EXISTING PAVEMENT TYPE	PROPOSED PAVEMENT TYPE	PAVEMENT AREA SQ. YD.	ASPHALT CONCRETE								REMARKS	
											ITEM 254 PAVEMENT PLANING, ASPALT CONCRETE SQ. YD.	ITEM 407 NON- TRACKING TACK COAT @ 0.075 GAL/SY GAL	ITEM 441		ITEM 407 NON- TRACKING TACK COAT @ 0.040 GAL/SY GAL	ITEM 441		ITEM 411 COMPACTED AGGREGATE TYPE A		
													AVG THICK			AVG THICK		AVG THICK		
5	CR77	0.000	0.500	0.500	2640	E	20	422	404LVT	5867	20	440	1	163	235	1	163	2	66	BUTT JOINT @ FAYETTE CO. LINE STA 00+00
5	CR77	0.500	0.512	0.012	63	E	20	422	404LVT	140	40	11	1	4	6	1	4	2	2	BUTT JOINT @ CR15B LT & RT STA 27+06
5	CR77	0.512	1.012	0.500	2640	E	20	422	404LVT	5867		440	1	163	235	1	163	2	66	
5	CR77	1.012	1.512	0.500	2640	E	20	422	404LVT	5867		440	1	163	235	1	163	2	66	
5	CR77	1.512	2.012	0.500	2640	E	20	422	404LVT	5867		440	1	163	235	1	163	2	66	
5	CR77	2.012	2.053	0.041	216	E	20	422	404LVT	480	20	36	1	14	20	1	14	2	6	BUTT JOINT @ SR 323 STA 110+30
Totals					2.053					24088	80	1807		670	966		670		272	

DRAWN
JDC
CHECKED
BDD

TYP SECTION & ASPHALT
CONCRETE DATA SUBSUMMARY - CR77

BRYAN D. DHUME P.E., P.S.
MADISON COUNTY ENGINEER
825 US 42 NE, LONDON, OHIO

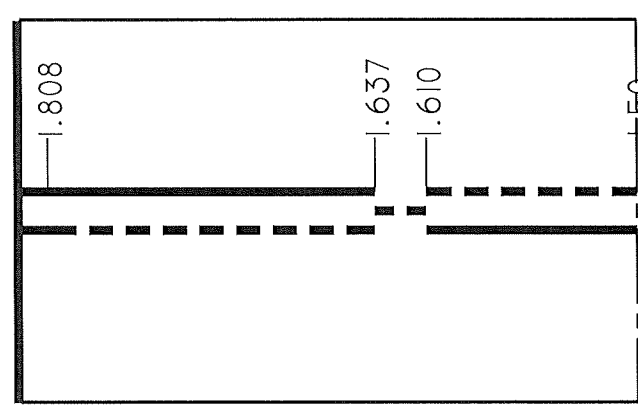
MAD-CR2-0.00, CR11-0.00,
CR15-0.00, CR34-0.00,
& CR77-0.00



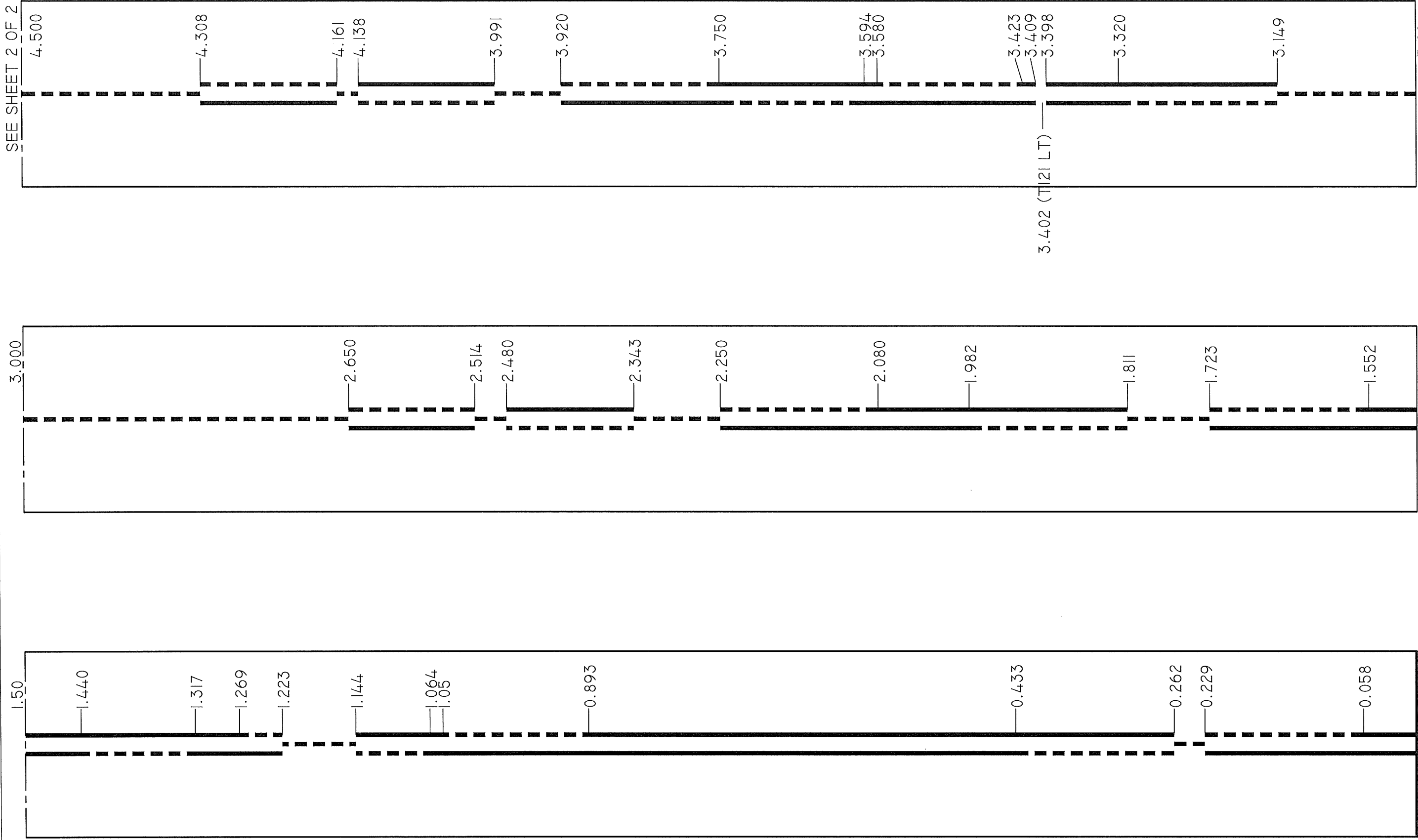
1.403 (CR 89 LT)

(CR81 RT)

V
I
L
L
A
L
L
S
P
R
O
J
E
C
T
P
R
E
L
I
M
I
N
A
R
Y
C
O
M
M
I
T
T
E
E



000 METERS
M-Z-Y-H-Z-C-O-C-Z-F-I-R-R-G



TITLE BLOCK

6

MAD-CR2-0.00, CR11-0.00,
CR13-0.00, CR34-0.00,
8 CR77-0.00

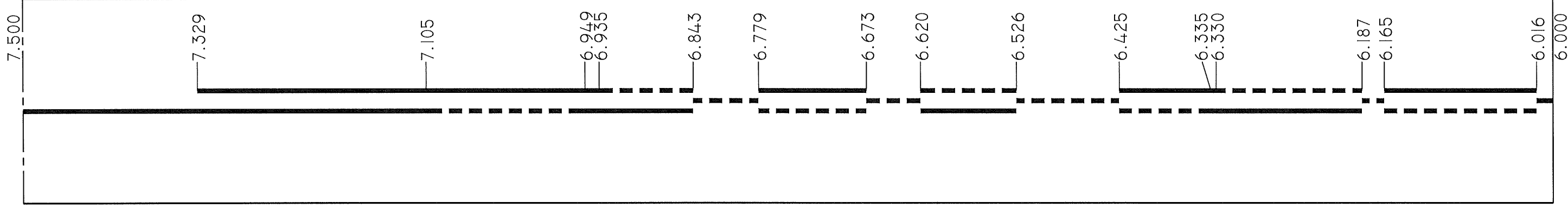
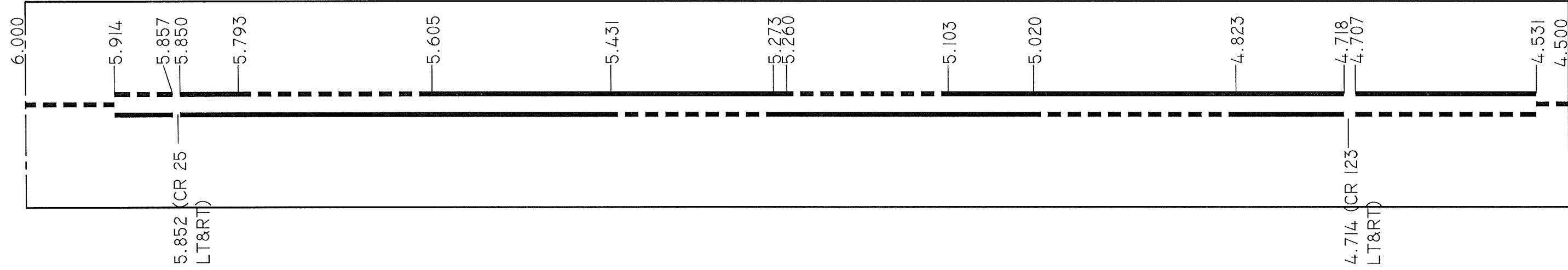
BRYAN D. DHUME P.E., P.S.
MADISON COUNTY ENGINEER
825 US 42 NE, LONDON, OHIO

STRIPING PLAN
SLM 0.000 TO SLM 4.500
CRII

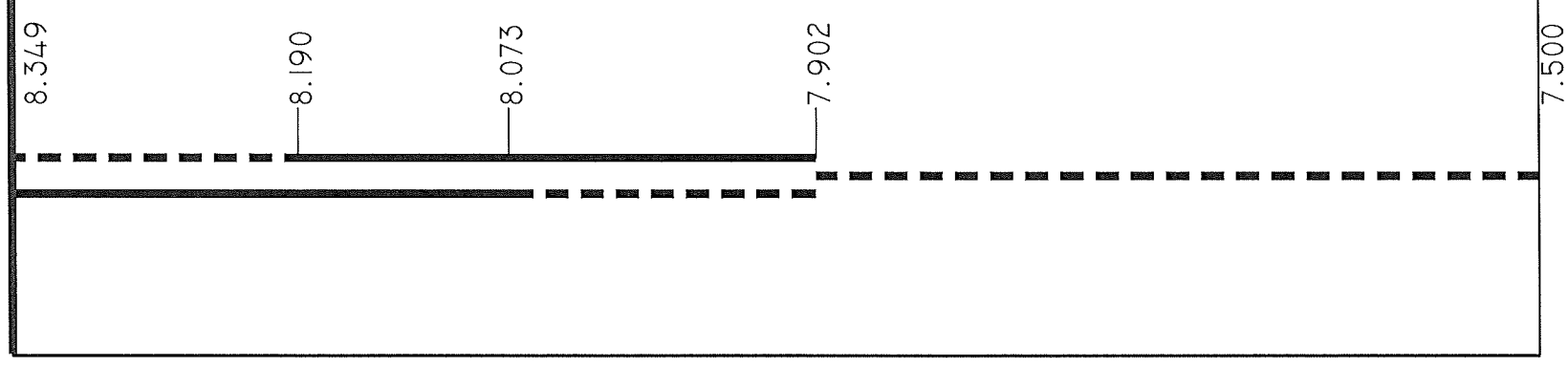
DRAWN
JDC

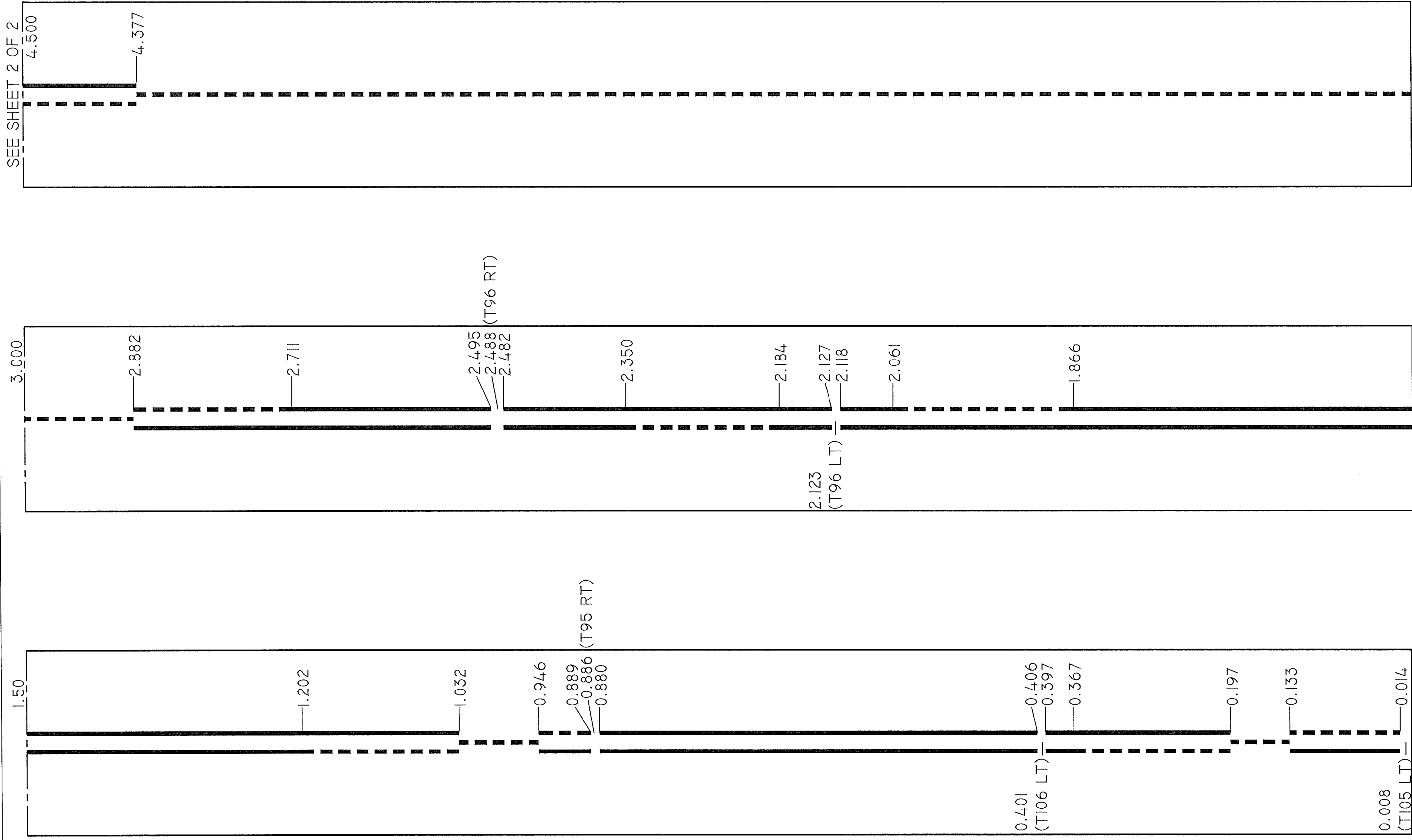
CHECKED
BDD

NOT TO SCALE



94308 ΣΓΣ
 94308 ΣΓΣ
 94308 ΣΓΣ





000 ZFS
 HOFFORD TRAVIS
 ENGINEERING

MAD-CR2-0.00, CR11-0.00,
 CR13-0.00, CR34-0.00,
 & CR77-0.00

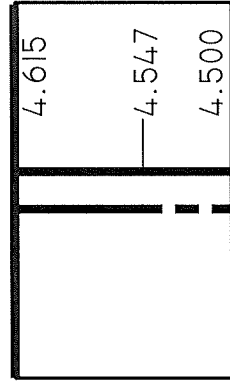
BRYAN D. DHUME P.E., P.S.
 MADISON COUNTY ENGINEER
 825 US 42 NE, LONDON, OHIO

STRIPING PLAN
 SLM 0.000 TO SLM 4.500
 CR13

DRAWN	JDC
CHECKED	BDD

NOT TO SCALE

ST-M-Y-T-C ZODZOF
T-C-F-U-O-R-P-D-Z-F
5-1-6-4 M L S



SEE SHEET 1 OF 2

6/2

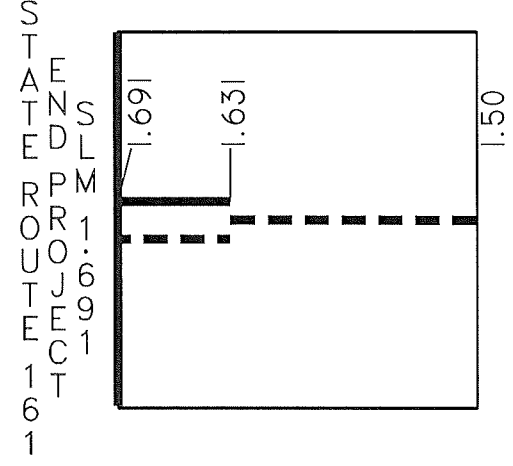
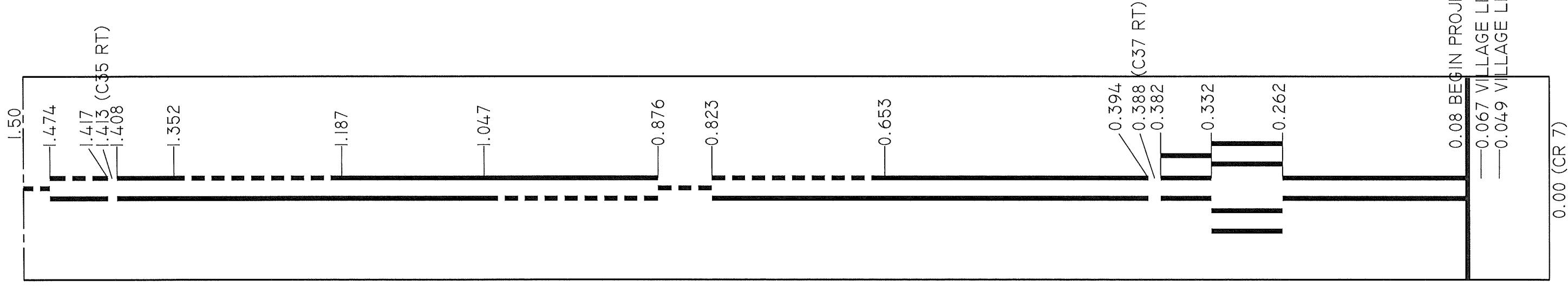
MAD-CR2-0.00, CR11-0.00,
CR13-0.00, CR34-0.00,
& CR77-0.00

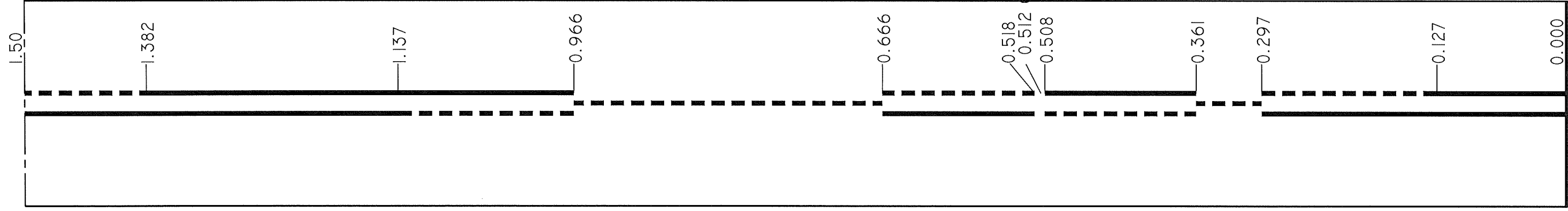
BRYAN D. DHUME P.E., P.S.
MADISON COUNTY ENGINEER
825 US 42 NE, LONDON, OHIO

STRIPING PLAN
SLM 4.500 TO SLM 4.615
CR13

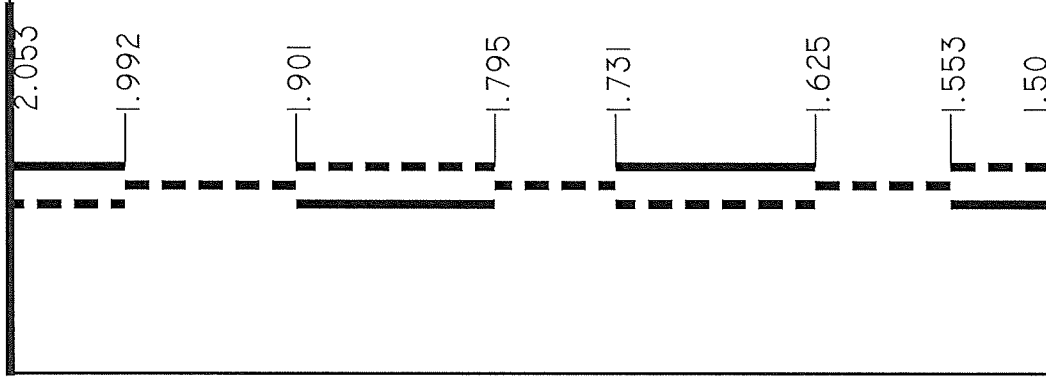
DRAWN
JDC
CHECKED
BDD

NOT TO SCALE





TOP OF ROAD PROFILE
3233 FUTURE ROAD
3000 M



(CI5B LT&RT)

TOP OF ROAD PROFILE
3233 FUTURE ROAD
3000 M