OHIO DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT 6
SIGN LIGHTING CONVERSION

Plan No. LM-6-81-2

FRI 000R(80)
FR 000R(81)

FHWA REGION	STATE	PROJECT	
5	OHIO		

1/51

DEL-36-(17.98-18.07)
FAY-35-(12.10-17.39)
FRA-270-(0.00-54.97)
FRA-161-(14.71-16.63)
UNI-33-(9.69-12.37)

The Standard 1979 Specifications of the State of Ohio, Department of Transportation, including changes and Supplemental Specifications listed in the plans and proposals shall govern these improvements.

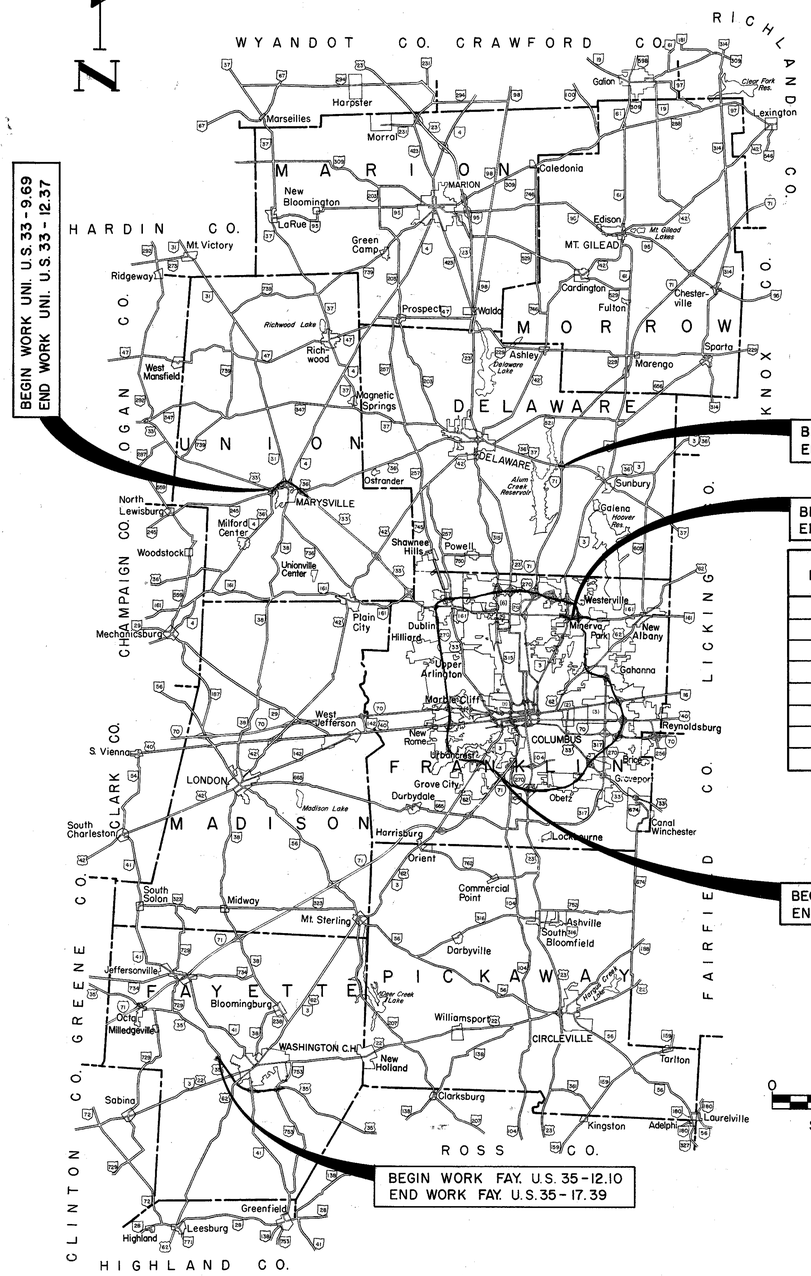
I hereby approve these plans and declare that the making of this improvement will not require the closing to traffic of the highway and that provisions for the maintenance and safety of traffic will be as set forth on the plans and estimates.

Approved
Date 12/4/80 District Deputy Director of Transportation

Approved
Date _____ Engineer, Bureau of Bridges and Structural Design

Approved Gerald E. Nann
Date 3-17-81 Chief Engineer, Operations

Approved David L. Weir
Date 4-10-81 Director, Department of Transportation



PART	COUNTY	ROUTE	SECTIONS	PROJECT TERMINI BEGIN	PROJECT TERMINI END	NET LENGTH MILES	TOWNSHIP	CITY	VILLAGE
I	FRA	270	0.00 - 54.76	0.00	54.97	54.97		COLUMBUS	OBETZ
								GAHANNA	
II	DEL	36	17.11	17.98	18.07	0.09			
III	FAY	35	12.04	12.10	17.39	5.29		WASH. C.H.	
IV	FRA	161	14.60 - 15.10	14.71	16.63	1.92		COLUMBUS	MINERVA PARK
V	UNI	33	8.58 - 12.18	9.69	12.37	2.68		MARYSVILLE	
			WORK LENGTH TOTAL			64.95			

PROJECT LENGTH = 0.00 MILES

STANDARD DRAWINGS		SUPPLEMENTAL SPECIFICATIONS	
T.C. 22.10	3/1/79	857	12/19/78
T.C. 31.20	3/1/79	858	12/19/78
T.C. 32.10	3/8/79	957	12/19/78
T.C. 35.10	10/5/77	958	12/19/78

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DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

APPROVED:

DIVISION ADMINISTRATOR _____ DATE _____

GENERAL NOTES

IT IS THE INTENT OF THIS PROJECT TO CONVERT THE EXISTING FLUORESCENT LIGHTED SIGNS TO MERCURY VAPOR LIGHTED SIGNS IN CONFORMANCE WITH STANDARD CONSTRUCTION DRAWING TC-31.20.

858 REMOVAL OF SIGN LIGHTING FIXTURE
THIS WORK SHALL CONSIST OF THE DISMANTLING OF SIGN LIGHTING FIXTURES AND APPURTENANCES. THE LIGHTING FIXTURES, BALLASTS AND HARDWARE REMOVED SHALL BECOME THE PROPERTY OF THE STATE AND SHALL BE TAKEN BY THE CONTRACTOR TO THE TRAFFIC MAINTENANCE SHOP, 843 E. 17th AVE. (NEAR I-71), COLUMBUS, FOR STORAGE. THE CONTRACTOR MUST GIVE THE TRAFFIC MAINTENANCE SHOP SUPERVISOR TWO WORKING DAYS NOTICE AND SHALL BE RESPONSIBLE FOR UNLOADING AND NEAT PLACEMENT OF THE REMOVED ITEMS UNDER THE MAINTENANCE SHOP SUPERVISOR'S DIRECTION. THE SUPERVISOR MAY BE CONTACTED AT 614-466-3530. BASIS OF PAYMENT FOR THE ABOVE WORK WILL BE AT THE CONTRACT UNIT PRICE BID FOR ITEM 858 REMOVAL OF SIGN LIGHTING FIXTURE, WHICH PRICE WILL INCLUDE ALL LABOR AND EQUIPMENT NECESSARY TO PERFORM THE REQUIRED WORK. (THE LIGHTING FIXTURES ARE 72" AND 96" IN LENGTH)

858 SIGNS WIRED, AS PER PLAN
IN ADDITION TO THE REQUIREMENTS OF 858.07, THE FOLLOWING RELATED ITEMS SHALL BE INCLUDED IN THIS PAY ITEM. THE CONTRACTOR SHALL FURNISH THE 1.65"X4"-2.16 LB/FT CHANNEL AND ALL OTHER NECESSARY HARDWARE AND FIXTURES TO MAKE A COMPLETE ELECTRICAL SYSTEM FROM THE DISCONNECT SWITCH TO THE LUMINAIRE. THE EXISTING JUNCTION BOXES, RIGID OR FLEXIBLE CONDUIT, CONDULETS, CONDUIT CLAMPS, AND MISCELLANEOUS HARDWARE SHALL BE UTILIZED. IF, WHEN NEEDED, A VOLTAGE CHECK BY THE CONTRACTOR SHOWS INCORRECT VOLTAGE AT THE DISCONNECT SWITCH THE ENGINEER WILL NOTIFY THE TRAFFIC DEPARTMENT FOR REPAIRS, BY O.D.O.T.. IN ADDITION, AFTER THE REMOVAL OF THE FLUORESCENT BALLAST, THE JUNCTION BOX SHALL BE SEALED WITH A WATERPROOF PLUG. EXISTING TRANSFORMERS ARE TO BE BY-PASSED TO UTILIZE THE 480V SOURCE.
BASIS OF PAYMENT WILL BE AS FOLLOWS, WHICH UNIT PRICE WILL INCLUDE ALL LABOR, MATERIAL, EQUIPMENT AND INCIDENTALS NECESSARY TO PERFORM THE REQUIRED ITEM OF WORK.

1) 858 SIGNS WIRED, AS PER PLAN

2) 858 SIGNS WIRED, OVERPASS STRUCTURE MOUNTED, AS PER PLAN

FIXTURE SUPPORT ARM REPAIR BRACKETS SHALL BE INSTALLED AS SHOWN ON SHEET 43 OF THE PLANS ON OVERPASS STRUCTURE SIGNS. ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED TO ACCOMPLISH THE WORK INCLUDING ALL APPROPRIATE BENT OR STRAIGHT BRACKETS AND DRILLING TO RETARD FIXTURE SUPPORT ARM FATIGUE CRACKS, SHALL BE INCIDENTAL TO THE UNIT PRICE BID FOR "ITEM 858, SIGNS WIRED, OVERPASS STRUCTURE MOUNTED, AS PER PLAN".

858 BALLAST
BALLASTS FOR MERCURY VAPOR LUMINAIRES SHALL BE LOCATED WITHIN THE LUMINAIRE HOUSING OR CONTAINED IN A WEATHERPROOF HOUSING CONTIGUOUS TO THE LUMINAIRE, 480 VOLTS.

INSPECTION AND TESTING
INSPECTION AND TESTING OF THE MERCURY VAPOR SIGN LIGHTING INSTALLATION SHALL BE IN ACCORDANCE WITH SUPPLEMENTAL SPECIFICATION 858. SECTION 858.17 WITH THE CABLE INSULATION AND GROUND TEST BEING WAIVED FOR THIS PARTICULAR PROJECT.

614 MAINTAINING TRAFFIC
IN ADDITION TO THE REQUIREMENTS OF SPECIFICATION 614, THE CONTRACTOR SHALL MAINTAIN TRAFFIC IN ACCORDANCE WITH SHEETS 44-51. PAYMENT FOR THIS ITEM SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 614 MAINTAINING TRAFFIC.

GENERAL SUMMARY

ITEM	TOTAL QUANTITY	UNITS	FRI PART 1	FR PART 2,3,4,5	DESCRIPTION Type Code-Y002
858	335	EACH	209	126	REMOVAL OF SIGN LIGHTING FIXTURE
858	195	EACH	121	74	SIGNS WIRED, AS PER PLAN
858	9	EACH	4	5	SIGNS WIRED, OVERPASS STRUCTURE MOUNTED, AS PER PLAN
858	41	EACH	17	24	MERCURY VAPOR LUMINAIRE WITH 100 WATT LAMP
858	293	EACH	191	102	MERCURY VAPOR LUMINAIRE WITH 175 WATT LAMP
~~858~~		~~EACH~~			~~MERCURY VAPOR LUMINAIRE WITH 250 WATT LAMP~~
858	41	EACH	17	24	BALLAST, TYPE CMRI-100-480
858	293	EACH	191	102	BALLAST, TYPE CMRI-175-480
~~858~~		~~EACH~~			~~BALLAST, TYPE CMRI-250-480~~
614	LUMP	LUMP	LUMP	LUMP	MAINTAINING TRAFFIC
624	LUMP	LUMP	LUMP	LUMP	MOBILIZATION

NOTE: ONLY SIGNS WITH REFERENCE NUMBERS SHOWN IN THE SUB-SUMMARY QUANTITIES SHALL BE CONVERTED.

PART I

SUB SUMMARY

FHWA REGION	STATE	PROJECT	
5	OHIO		

Plan Nº LM-6-81-2

FRANKLIN

ITEM 858															
SHEET	LOCATION 270	REFERENCE	S.L.M.	SIGN SIZE (OVERALL)	REMOVAL OF SIGN LIGHTING FIXTURE 72"	REMOVAL OF SIGN LIGHTING FIXTURE 96"	SIGNS WIRED	SIGNS WIRED, OVERPASS STRUCTURE MOUNTED	MERCURY VAPOR LUMINAIRE WITH 100 WATT LAMP	MERCURY VAPOR LUMINAIRE WITH 175 WATT LAMP	~~MERCURY VAPOR LUMINAIRE WITH 250 WATT LAMP~~	BALLAST, TYPE CMRI-100-480	BALLAST, TYPE CMRI-175-480	~~BALLAST, TYPE CMRI-250-480~~
	EXIT RTE.			FT.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.
8	2 62	188	8.00	11 X 6.5		1	1			1			1	
8		189	8.20	11 X 8.5		1	1			1			1	
8		190	8.42	12X6.5	2		1			2			2	
9	5 Geo.	191	4.13	15X6.5	2		1			2			2	
9		192	4.18	11 X 8		1	1			1			1	
9		193	4.40	13X6.5	2		1			2			2	
9		194	4.32	12X8	2		1			2			2	
10	7 40	195a	6.12	15X8.5	2		1			2			2	
10		196	6.29	14X6.5	2			1		2			2	
10		195b	6.12	12X8.5	2		1			2			2	
11	17 33	196Aa	2.30	10X6		1	1		1			1		
11		" b		15X6.5	2		1			2			2	
11		197 a	2.88	12X8	2		1			2			2	
11		" b		9X6.5	1		1			1			1	
12	22 315	198 a	11.47	10X6		1	1		1			1		
12		" b		14X7.5	2		1			2			2	
12		" c		15X6.5	2		1			2			2	
12		199	12.15	12X6.5	2		1			2			2	
13	23 23	200a	22.87	15X8.5	2		1			2			2	
13		" b		17X6.5	1	1	1			2			2	
13		201 a	23.21	14X8.5	2		1			2			2	
13		" b		16X7	1	1	1			2			2	
14	27 710	202	4.06	13X6.5	2		1			2			2	
14		203	3.99	14X8.5	2		1			2			2	
14		204	3.58	17X6.5	2		1			2			2	
14		205	3.68	11 X 7.5		1	1			1			1	
15	29 3	206	25.46	12X6.5	2		1			2			2	
15		207	25.64	15X6.5	2			1		2			2	
15		208	25.79	11X8.5		1	1			1			1	
15		208A	25.90	16X6.5	1	1	1			1			1	
16	30 161	209a	15.32	13X6.5	2		1			2			2	
16		" b		12X8.5	2		1			2			2	
16		" c		12X6.5	2		1			2			2	
16		210 a	15.62	13X6.5	2		1			2			2	
16		" b		13X8.5	2		1			2			2	
16		" c		15X6.5	2		1			2			2	
16		211 a	15.84	13X6.5	2		1			2			2	
16		" b		12X8.5	2		1			2			2	
16		" c		12X8.5	2		1			2			2	
16		212	15.52	12X6.5	2		1			2			2	
10	7 40	196 A	6.53	12X8	2		1			2			2	
10		196B	6.40	9X10.5		1	1			1			1	
10		196Ca	6.05	4X5.5	1		1		1			1		
10		" b		4X5.5	1		1		1			1		
10		" c		4X5.5	1		1		1			1		
10		196D	5.92	12X10	2		1			2			2	
10		196E	5.83	12X10	2		1			2			2	

ITEM 858															
SHEET	LOCATION	REFERENCE	S.L.M.	SIGN SIZE (OVERALL)	REMOVAL OF SIGN LIGHTING FIXTURE 72"	REMOVAL OF SIGN LIGHTING FIXTURE 96"	SIGNS WIRED	SIGNS WIRED, OVERPASS STRUCTURE MOUNTED	MERCURY VAPOR LUMINAIRE WITH 100 WATT LAMP	MERCURY VAPOR LUMINAIRE WITH 175 WATT LAMP	~~MERCURY VAPOR LUMINAIRE WITH 250 WATT LAMP~~	BALLAST, TYPE CMRI-100-480	BALLAST, TYPE CMRI-175-480	BALLAST, TYPE CMRI-250-480
	EXIT RTE.			FT.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.
17	32 MORSE	213	4.98	12X6.5	2		1			2			2	
17		214	5.10	8X5	1		1		1			1		
17		215	5.28	9X5	1			1	1			1		
17		216 a	5.39	8X6	1		1		1			1		
17		216 b	5.39	8X6	1		1		1			1		
17		218	5.31	8X5	1			1	1			1		
17		219	5.20	7X6	1		1		1			1		
19	35 62	220 a	20.68	12X10.5	2		1			2			2	
19		" b		15X6	2		1		2			2		
18		221	21.03	11X9		1	1			1			1	
18		222 a	21.41	16X9	1	1	1			2			2	
18		" b		10X9		1	1			1			1	
18		" c		11X7		1	1			1			1	
18		223 a	21.55	16X9	1	1	1			2			2	
18		" b		13X7	2		1			2			2	
19		224	22.24	12X9	2		1			2			2	
18		225 a	21.96	12X7	2		1			2			2	
18		" b		12X9	2		1			2			2	
18		" c		15X7	2		1			2			2	
18		226 a	21.70	12X8	2		1			2			2	
18		" b		11X7		1	1			1			1	
18		227	21.53	12X8	2		1			2			2	
18		228 a	21.27	16X9	1	1	1			2			2	
18		" b		15X6	2		1		2			2		
19	35 STL2	229	NB 1 a	7X7	1		1			1			1	
19		229	SB 2 b	7X7	1		1			1			1	
19		230	SB 1 a	7X6	1		1		1			1		
19		230	NB 2 b	7X6	1		1		1			1		
20	37 317	231	19.88	12 X 10.5	2		1			2			2	
21		232 a	20.01	12X7	2		1			2			2	
21		" b		12X9	2		1			2			2	
21		" c		11X7		1	1			1			1	
22		233	20.27	15X7	2		1			2			2	
23		234	20.54	12 X 10.5	2		1			2			2	
22		235 a	20.40	11X9		1	1			1			1	
22		" b		11X9		1	1			1			1	
22		" c		15X7	2		1			2			2	
21		236	20.18	11X7		1	1			1			1	
	Sub-Total				116	22	80	4	17	120		17	120	

PART I

SUB SUMMARY

FHWA REGION	STATE	PROJECT	
5	OHIO		

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Plan Nº LM-C-81-8

FRANKLIN

ITEM 858															
SHEET	LOCATION 270 EXIT	RTE.	REFERENCE	S.L.M.	SIGN SIZE (OVERALL)	REMOVAL OF SIGN LIGHTING FIXTURE 72"	REMOVAL OF SIGN LIGHTING FIXTURE 96"	SIGNS WIRED	SIGNS WIRED, OVERPASS STRUCTURE MOUNTED	MERCURY VAPOR LUMINAIRE WITH 100 WATT LAMP	MERCURY VAPOR LUMINAIRE WITH 175 WATT LAMP	~~MERCURY VAPOR LUMINAIRE WITH 250 WATT LAMP~~	BALLAST, TYPE CMRI-100-480	BALLAST, TYPE CMRI-175-480	~~BALLAST, TYPE CMRI-250-480~~
					FT.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.
27	39	16	238	7.77	12×10.5	2		1			2			2	
27			239a	7.97	9×9.5	1		1			1			1	
27			" b	.	11×9.5		1	1			1			1	
27			" c	.	14×9.5	2		1			2			2	
27			240	8.30	13×7	2		1			2			2	
27			241	8.90	12×10.5	2		1			2			2	
27			242	8.64	11×10.5		1	1			1			1	
27			243a	8.46	16×9.5	1	1	1			2			2	
27			" b	.	12×9.5	2		1			2			2	
28	41	40	244	21.42	12×7	2		1			2			2	
28			245a	21.64	10×9		1	1			1			1	
28			" b	.	16×7	1	1	1			2			2	
28			246a	21.91	13×7	2		1			2			2	
28			" b	.	15×7	2		1			2			2	
28			245A	22.34	12×7	2		1			2			2	
28			246Aa	22.22	9×7	1		1			1			1	
28			" b	.	13×9	2		1			2			2	
28			" c	.	12×9	2		1			2			2	
28			247	22.09	15×7	2		1			2			2	
28			248	22.02	13×9	2		1			2			2	
28			249a	21.80	10×7		1	1			1			1	
28			" b		16×7	1	1	1			2			2	
29	46	33	250	24.69	10×10.5		1	1			1			1	
29			251a	24.85	11×6.5		1	1			1			1	
29			" b		15×8.5	2		1			2			2	
29			" c		12×6.5	2		1			2			2	
29			252	25.54	15×8.5	2		1			2			2	
29			253a	25.35	11×6.5		1	1			1			1	
29			" b		11×8.5		1	1			1			1	
29			" c		18×6.5	2		1			2			2	
30	49	Alum.	254a	2.93	12×8.5	2		1			2			2	
30			" b		13×6.5	2		1			2			2	
30			255	3.30	12×6.5	2		1			2			2	
31	52	23	256	4.75	15×8.5	2		1			2			2	
31			257a	5.28	11×8.5		1	1			1			1	
31			" b		16×6.5	1	1	1			2			2	
	70 EXIT		"												
32	91	Ro-Hil.	258a	13.39	12.×8	2		1			2			2	
32			" b		14×6.5	2		1			2			2	
32			259a	13.72	12×8.5	2		1			2			2	
32			260	13.72	12×6.5	2		1			2			2	
32			261	13.54	14×6.5	2		1			2			2	
Total Part I						174	35	121	4	17	191		17	191	

PART II

DELAWARE

ITEM 858															
SHEET	LOCATION 71 EXIT	RTE.	REFERENCE	S.L.M.	SIGN SIZE (OVERALL)	REMOVAL OF SIGN LIGHTING FIXTURE 72"	REMOVAL OF SIGN LIGHTING FIXTURE 96"	SIGNS WIRED	SIGNS WIRED, OVERPASS STRUCTURE MOUNTED	MERCURY VAPOR LUMINAIRE WITH 100 WATT LAMP	MERCURY VAPOR LUMINAIRE WITH 175 WATT LAMP	~~MERCURY VAPOR LUMINAIRE WITH 250 WATT LAMP~~	BALLAST, TYPE CMRI-100-480	BALLAST, TYPE CMRI-175-480	~~BALLAST, TYPE CMRI-250-480~~
					FT.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.
33	131	36	262a	17.98	11×9.5		1	1			1			1	
33			263a	18.07	11×9.5		1	1			1			1	
33			263 b	18.07	11×9.5		1	1			1			1	
33			262 b	17.98	11×9.5		1	1			1			1	
Total Part II							4	4			4			4	

PART III

SUB SUMMARY

FHWA REGION	STATE	PROJECT	
5	OHIO		

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Plan Nº LM-G-81-2

FAYETTE

SHEET	LOCATION	REFERENCE	S.L.M. (Mile Marker)	SIGN SIZE (OVERALL)	ITEM 858									
					REMOVAL OF SIGN LIGHTING FIXTURE		SIGNS WIRED	SIGNS WIRED, OVERPASS STRUCTURE MOUNTED	MERCURY VAPOR LUMINAIRE WITH 100 WATT LAMP	MERCURY VAPOR LUMINAIRE WITH 175 WATT LAMP	~~MERCURY VAPOR LUMINAIRE WITH 250 WATT LAMP~~	BALLAST, TYPE CMRI-100-480	BALLAST, TYPE CMRI-175-480	~~BALLAST, TYPE CMRI-250-480~~
					72"	96"								
	EXIT RTE.			FT.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.
34	35	264	12.10	11×6		1	1		1			1		
35		265a	13.88	11×7		1	1			1			1	
35		" b	.	12×9.5	2		1			2			2	
35		" c	.	20×9.5	3		1			3			3	
35		266	14.62	12×9.5	2		1			2			2	
35		267	14.57	17×11	1	1	1			2			2	
35		268	14.12	20×9.5	3		1			3			3	
36	22	269a	6.29	12×6.5	2		1			2			2	
36		270a	6.46	11×7		1	1			1			1	
36		271	6.56	8×5	1			1	1			1		
36		272a	6.76	8×7	1		1			1			1	
36		273	6.92	12×6.5	2		1			2			2	
36		272b	6.76	8×7	1		1			1			1	
36		274	6.57	11×5		1		1	1			1		
36		270b	6.46	11×7		1	1			1			1	
35	N. C-D Rd.	275	0.05	8×5	1		1		1			1		
35	S. C-D Rd.	276a	0.08	11×7		1	1			1			1	
35	" "	" b	0.08	11×7		1	1			1			1	
37	35	277	15.10	14×7	2		1			2			2	
37		278a	15.58	17×11	1	1	1			2			2	
37		" b		14×7	2		1			2			2	
38		279	16.98	6×7.5	1		1			1			1	
38		280	17.39	6×7.5	1		1			1			1	
38	75.3	281a	10.50	12×9	2		1			2			2	
38		282	10.55	12×7	2		1			2			2	
38		283	10.56	12×7	2		1			2			2	
38		281 b	10.50	12×9	2		1			2			2	
	Total Part III				34	9	25	2	4	39		4	39	

SHEET	LOCATION	REFERENCE	S.L.M.	SIGN SIZE (OVERALL)	ITEM 858									
					REMOVAL OF SIGN LIGHTING FIXTURE		SIGNS WIRED	SIGNS WIRED, OVERPASS STRUCTURE MOUNTED	MERCURY VAPOR LUMINAIRE WITH 100 WATT LAMP	MERCURY VAPOR LUMINAIRE WITH 175 WATT LAMP	~~MERCURY VAPOR LUMINAIRE WITH 250 WATT LAMP~~	BALLAST, TYPE CMRI-100-480	BALLAST, TYPE CMRI 175-480	~~BALLAST, TYPE CMRI-250-480~~
					72"	96"								
	EXIT RTE.			FT.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.

PART IV

SUB SUMMARY

FHWA REGION	STATE	PROJECT	
5	OHIO		

6/51

Plan Nº LM-6-81-2

FRANKLIN

ITEM 858														
SHEET	LOCATION	REFERENCE	S.L.M. (Mile Marker)	SIGN SIZE (OVERALL)	REMOVAL OF SIGN LIGHTING FIXTURE		SIGNS WIRED	SIGNS WIRED, OVERPASS STRUCTURE MOUNTED	MERCURY VAPOR LUMINAIRE WITH 100 WATT LAMP	MERCURY VAPOR LUMINAIRE WITH 175 WATT LAMP	~~MERCURY VAPOR LUMINAIRE WITH 250 WATT LAMP~~	BALLAST, TYPE CMRI-100-480	BALLAST, TYPE CMRI-175-480	~~BALLAST, TYPE CMRI-250-480~~
					72"	96"								
	EXIT RTE.			FT.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.
24	161	284 a.	14.76	14x7	2		1			2			2	
24		" b.	"	12x7	2		1			2			2	
24		" c.	"	15x7	2		1			2			2	
25		285	14.98	15x7	2		1			2			2	
24		286	14.80-	8x6	1		1		1			1		
24		287	14.83-	8x6	1		1		1			1		
24	3	288 a.	24.13	8x6	1		1		1			1		
24		" b.	"	8x6	1		1		1			1		
24		289 a.	24.27	8x6	1		1		1			1		
24		" b.	"	8x6	1		1		1			1		
24		290	24.22	10x5	1			1	1			1		
24		291	24.23	10x5	1			1	1			1		
26	161	292 a.	16.26	16x9	1	1	1			2			2	
26		" b.	"	14x8	2		1			2			2	
26		293	16.39	17x9	1	1		1		2			2	
26		294 a.	16.63	13x7	2		1			2			2	
26		" b.	"	13x10.5	2		1			2			2	
26		" c.	"	17x6	1	1	1		2			2		
26		295 a.	16.27	16x9	1	1	1			2			2	
26		" b.	"	12x9	2		1			2			2	
26	Sunbury	296 a.	9.86	9x6	1		1		1			1		
26		297 a.	10.04	8x5	1		1		1			1		
26		" b.	"	12x5	2		1		2			2		
26		298	10.09	11x6		1	1		1			1		
26		297 c.	10.04	8x6	1		1		1			1		
26		" d.	"	8x5	1		1		1			1		
26		296 b.	9.86	9x6	1		1		1			1		
Total Part IV					35	5	24	3	18	22		18	22	

ITEM 858														
SHEET	LOCATION	REFERENCE	S.L.M.	SIGN SIZE (OVERALL)	REMOVAL OF SIGN LIGHTING FIXTURE		SIGNS WIRED	SIGNS WIRED, OVERPASS STRUCTURE MOUNTED	MERCURY VAPOR LUMINAIRE WITH 100 WATT LAMP	MERCURY VAPOR LUMINAIRE WITH 175 WATT LAMP	~~MERCURY VAPOR LUMINAIRE WITH 250 WATT LAMP~~	BALLAST, TYPE CMRI-100-480	BALLAST, TYPE CMRI-175-480	~~BALLAST, TYPE CMRI-250-480~~
					72"	96"								
	EXIT RTE.			FT.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.

PART V

SUB SUMMARY

FHWA REGION	STATE	PROJECT	
5	OHIO		

7/51

Plan Nº LM-G-81-2

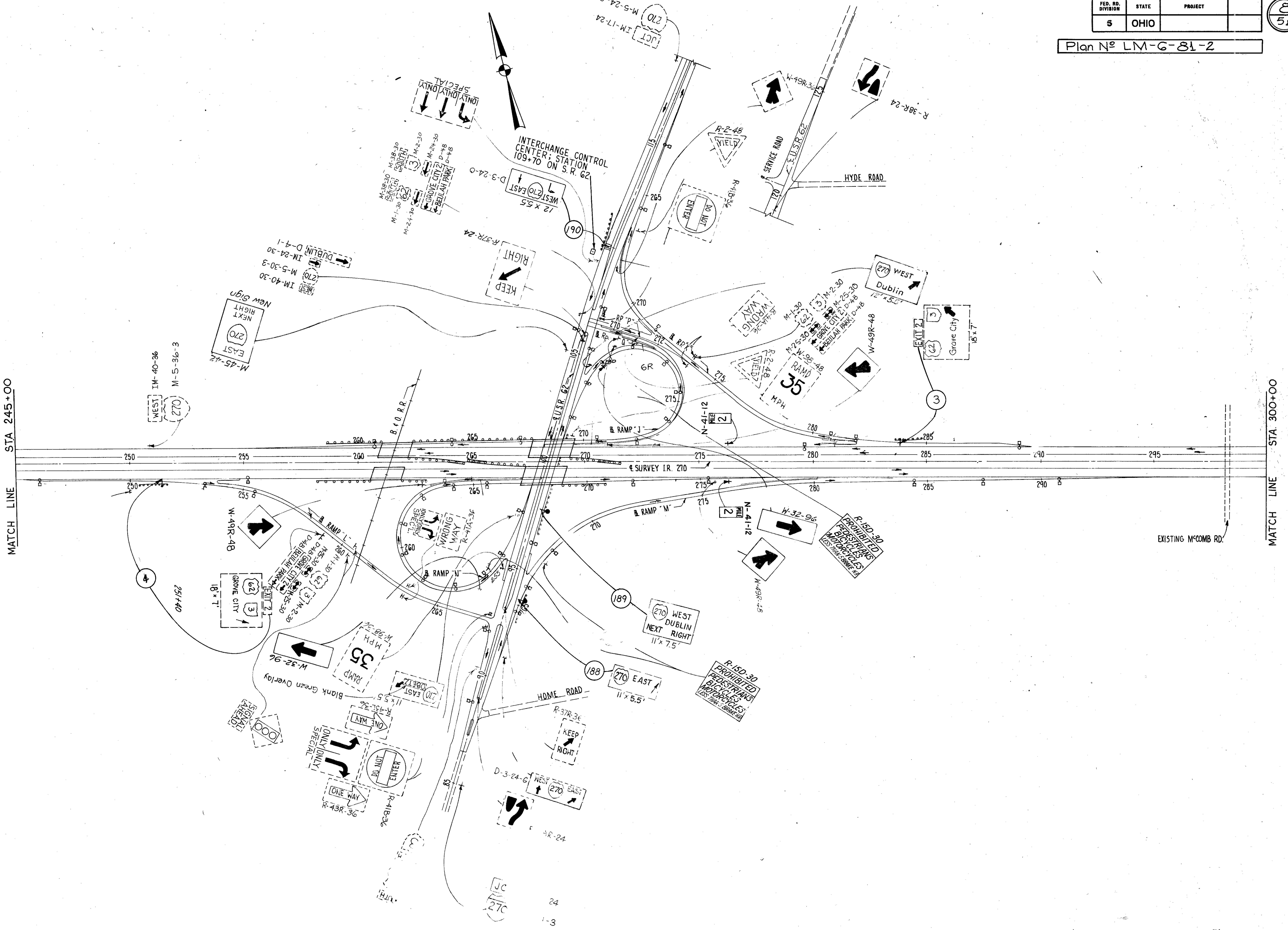
UNION

ITEM 858														
SHEET	LOCATION	REFERENCE	S.L.M.	SIGN SIZE (OVERALL)	REMOVAL OF SIGN LIGHTING FIXTURE		SIGNS WIRED	SIGNS WIRED, OVERPASS STRUCTURE MOUNTED	MERCURY VAPOR LUMINAIRE WITH 100 WATT LAMP	MERCURY VAPOR LUMINAIRE WITH 175 WATT LAMP	~~MERCURY VAPOR LUMINAIRE WITH 250 WATT LAMP~~	BALLAST, TYPE CMRI-100-480	BALLAST, TYPE CMRI-175-480	~~BALLAST, TYPE CMRI-250-480~~
					72"	96"								
	EXIT RTE.			FT.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.
39	36	299a.	9.69	18x10.5		2	1			2			2	
39		" b.	"	20x8	3		1			3			3	
40	33	300a.	8.77	12x5	2		1		2			2		
40		" b.	"	12x8.5	2		1			2			2	
40		" c.	"	20x8	3		1			3			3	
41		301a.	9.93	12x8.5	2		1			2			2	
41		" b.	"	11x6.5		1	1			1			1	
41		302a.	10.25	20x8	3		1			3			3	
41		" b.	"	12x6.5	2		1			2			2	
41		303	10.47	10x8		1	1			1			1	
41		304a.	10.65	10x8.5		1	1			1			1	
41		" b.	"	11x6.5		1	1			1			1	
41		305a.	10.77	18x10.5		2	1			2			2	
41		" b.	"	14x8	2		1			2			2	
41		306a.	10.54	10x6.5		1	1			1			1	
41		" b.	"	12x6.5	2		1			2			2	
42		307	11.65	10x8.5		1	1			1			1	
42		308	11.82	13x6.5	2		1			2			2	
42		309	12.37	12x10.5	2		1			2			2	
42		310a.	12.21	13x10.5	2		1			2			2	
42		" b.	"	15x8	2		1			2			2	
	Total Part V				29	10	21		2	37		2	37	

ITEM 858														
SHEET	LOCATION	REFERENCE	S.L.M.	SIGN SIZE (OVERALL)	REMOVAL OF SIGN LIGHTING FIXTURE		SIGNS WIRED	SIGNS WIRED, OVERPASS STRUCTURE MOUNTED	MERCURY VAPOR LUMINAIRE WITH 100 WATT LAMP	MERCURY VAPOR LUMINAIRE WITH 175 WATT LAMP	~~MERCURY VAPOR LUMINAIRE WITH 250 WATT LAMP~~	BALLAST, TYPE CMRI-100-480	BALLAST, TYPE CMRI-175-480	~~BALLAST, TYPE CMRI-250-480~~
					72"	96"								
	EXIT RTE.			FT.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.
	Sub Total	Page 3 & 4 Part I			174	35	121	4	17	191		17	191	
	Sub Total	Page 4 Part II				4	4			4			4	
	Sub Total	Page 5 Part III			34	9	25	2	4	39		4	39	
	Sub Total	Page 6 Part IV			35	5	24	3	18	22		18	22	
	Sub Total	Page 7 Part V			29	10	21		2	37		2	37	
	Grand Total				272	63	195	9	41	293		41	293	

FED. RD. DIVISION	STATE	PROJECT	
5	OHIO		

Plan Nº LM-6-81-2



IR270 STA.245+00 TO STA.300+00

FED. RD. DIVISION	STATE	PROJECT	
5	OHIO		

Plan Nº LM-6-81-2

IR270 STA. 90+00 TO STA. 160+00

FED. RD. DIVISION	STATE	PROJECT	
5	OHIO		

PLAN No. LM-C-81-2

10
51

N

SPEED LIMIT 70
R-10-48
55

STA. 100+00

R-123-36
NO U TURN
RP-123-24

MATCH LINE

105 110 115 120 125 130 135 140 145 150 155

℄ I-270

EMERGENCY AND AUTHORIZED VEHICLES ONLY

9
EXIT 7
Broad St.
NEXT RIGHT
6'x2'
13'x8.5'

W-49R-48

RAMP "S"
RAMP "R"
RAMP "T"
RAMP "U"
RAMP "V"
N-41-12
N-41-12

10
EXIT 8
Cleveland
Indianapolis
Columbus
1½ MILES
15'x14'
15'x7'
EXIT 7
Broad St.
16'x7'

R-41A-36
WRONG WAY

R-41-36
ONE WAY
DO NOT ENTER
ONE WAY
R-41R-36

M-524-108
WEST 40 EAST
9'x2.5'
Law Sign

WEST Broad St. EAST
EXIT
Columbus
Ex Sign

STA. 159+00

MATCH LINE

340
345

196C
4.0'x4.5'
4.0'x4.5'
4.0'x4.5'

195
270 SOUTH
Grove City
12.0'x7.5'

196
270 SOUTH
Grove City
14'x5.5'

196B
NORTH 270 TO 70
Dublin
9.0'x9.5'

196A
JUNCTION
270
1/4 MILE
12.0'x7.0'

196E
JUNCTION
270
1/4 MILE
12.0'x7.0'

196D
270 TO 70
Dublin
Grove City
KEEP RIGHT
12.0'x9.0'

195
270 TO 70
Dublin
Grove City
15.0'x7.5'

330
335
340
345

IR270 STA.100+00 TO STA.159+00

Calculated	Checked
[illegible]	R.C.B.
3/7/73	3/15/73

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

PLAN No. LM-G-81-2

11
51

FRANKLIN COUNTY
WASHINGTON TOWNSHIP

℄ EXISTING USR 33 & SR 161

SOUTH FORK POST ROAD

INDIAN RUN ROAD

FRANTZ ROAD

℄ USR 33 & SR 161

℄ IR 270

MATCH LINE

Match Line Sta 655+00

Existing Control Center
T 270/190 Lt Sta 695+80
Post Rd. 98 Rt. Sta. 17+90

PI 16+01.36

6" MP GAS LINE

IR270 Over S.F. Indian Run
FRA-270

IR-270 Under Post Road
FRA-270

IR270 Under USR33
FRA-270-

683+12.50 IR 270
180+17.28 USR 33

PI USR 33 185+14.98

PI 187+66.46

PI 182+63.46

13.2 KV 3 ϕ
C & SO.E. Co.

CASING ONLY

Rev. 12-1-77

IR-270 Sta 655+00 to Sta 720+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

12/51

Plan Nº LM-G-81-2

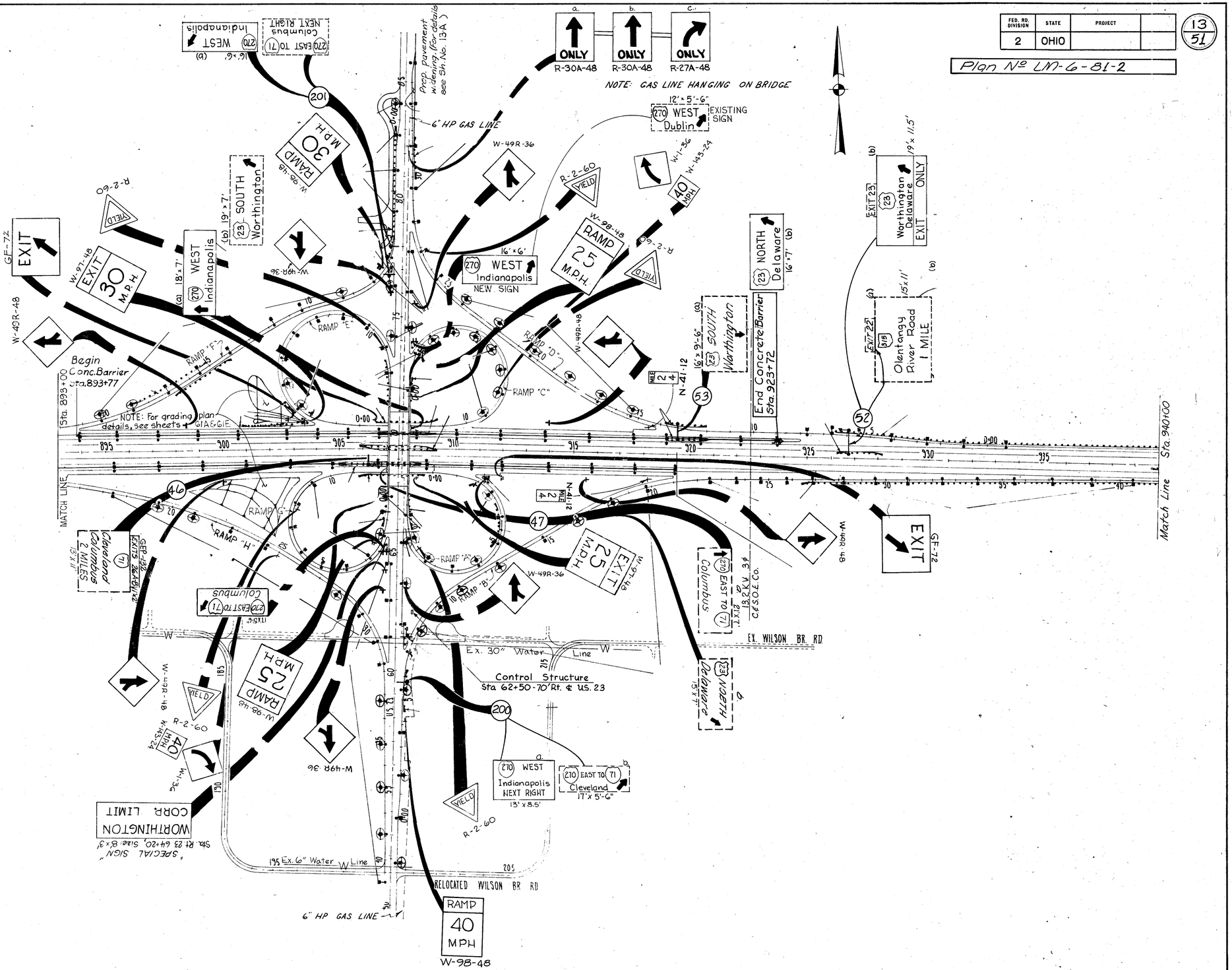
MICROFILMED
AUG 1 1985

IR-270 Sta 839+00 to Sta 893+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

13/51

Plan Nº LM-6-81-2



IR-270 Sta. 893+00 to Sta 940+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

PLAN No. LM-G-81-2

14
51

IR-270 Sta 1070+00 to Sta 1129+00

MICROFILMED
AUG 1 1985

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

PLAN No. LM-G-31-2

15
51

Match Line A-A

Sta. 1129+00 Match Line

Columbus Corp. Line

CREEK

N-41-12

R-19-24 EMERGENCY AND AUTHORIZED VEHICLES ONLY

R-23R-36

R-38-36

Cleveland Ave EXIT ONLY 19'x9.5'

EXIT 27 (10)

Indianapolis (270) 17'x9.5'

79

73

74

Wheeling (70) 17'x9.5'

Westerville EXIT 3 (61) EXIT 29 15'x5.5'

Wheeling (70) 17'x9.5'

Westerville EXIT 3 (61) EXIT 29 15'x5.5'

W-49R-48

C-I-270

1180 1175 1170 1165 1160 1155

R.R. 8" HP Gas Line

RAMP "S" 2"

R-2-36 YIELD

208A

208

207

206

DIVIDED HIGHWAY ENDS W-59-36

Worthington (270) WEST (16'x5.5')

Gahanna (270) SOUTH NEXT RIGHT

W-49R-48

M-38-24 SOUTH M-5-24-3 270 IM-24-20 Gahanna 7 D-4-1 (24'x2')

M-37-24 NORTH M-4-24 M-2-24 M-38-20 3 Westerville D-4-1 (11'x2')

R-43R-36 ONE WAY R-41B-36 DO NOT ENTER ONE WAY R-43L-36

R-41B-36 DO NOT ENTER STOP R-1-48

WEST IM-40-24 270 M-5-24-3 IM-24-20 Worthington 5 D-4-1 (11'x2')

Match Line A-A

15' RAMP "K" 2'-6"

270 West Worthington

13 KV CEI S.O.E.Co. Overhead

WRONG WAY R-41A-36

N-41-12

R-41A-36 ONE WAY R-43R-36 DO NOT ENTER ONE WAY R-43L-36

EXIT 27 (10) Cleveland Ave 1 MILE 19'x9.5'

EXIT 29 (61) 3 Westerville (18'x2')

Sta. 1189+00 Match Line

RAMP "M" 15'

RAMP "J" 15'

W-98-48 RAMP 30 MPH

W-97-48 30 MPH

N-41-12

W-47-36 SIGNAL AHEAD

W-59-36 DIVIDED HIGHWAY ENDS

Gahanna (270) SOUTH (16'x7') E. Green Dr.

Westerville 3 (61') EXIT 29

M-37-24 NORTH M-4-24 M-2-24 M-38-20 3 Westerville D-4-1 (24'x2')

WRONG WAY R-41A-36

M-38-24 SOUTH M-5-24-3 270 IM-24-20 Gahanna 7 D-4-1 (24'x2')

W-49R-48

R-43R-36 ONE WAY R-43L-36 DO NOT ENTER ONE WAY

STOP R-1-48

SOUTH WEST 270 (12'x5.5')

C-S-R-3

IR-270 Sta 1129+00 to Sta 1189+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

PLAN No. LM-6-81-2

16/51

MATCH LINE Sta. 850+00

211

138 KV C.E.S.O.E.Co. Overhead

(a) 161 EAST New Albany 13'-0" x 5'-6"

(b) Hoover Dam Sunbury Rd. EXIT ½ MILE 13'-0" x 7'-0"

(c) 270 NORTH Westerville 15'-0" x 3'-6"

EXIT 30B 161 EAST New Albany 19'-0" x 7'-0"

EXIT 30A 161 WEST Minerva Park ½ MILE 18'-0" x 9'-0"

83 Sta. 1278+00 a. 270 Cleveland 15'-0" x 7'-0"

(a) 161 WEST Worthington 13'-0" x 5'-6"

(b) 270 SOUTH Gahanna JCT ¼ MILE 12'-0" x 7'-6"

(c) 270 NORTH Westerville TO 71 12'-0" x 7'-6"

W-98-36 RAMP 30 M.P.H.

W-49R-36

EXIT 30A

GF-98 8'x5' 1259+25

RAMP A

RAMP B

RAMP C

RAMP D

RAMP E

RAMP H

RAMP 30 M.P.H. W-98-36

YIELD R-2-60

210

84 EXIT 30A GSP-98 21'-7" WEST 161 Minerva Park ON BRIDGE

81 GSP-98 EXIT 30B 161 EAST New Albany 16'-0" x 7'-0"

212

80 Sta. 1249+00 a. 270 Wheeling 12'-0" x 5'-6"

270 SOUTH Gahanna 12'-0" x 5'-6"

EXIT 30B 161 EAST New Albany ¼ MILE 16'-0" x 9'-0"

EXIT 30A 161 WEST Minerva Park 21'-0" x 7'-0"

(a) 161 EAST New Albany 13'-0" x 5'-6"

(b) 270 NORTH Westerville JCT. ¼ MILE 12'-0" x 7'-6"

(c) 270 SOUTH Gahanna 12'-0" x 5'-6"

209

EXIT 30B 8'x5' 1267+70 G-96

W-49R-36

STOP R-1-30

BUENOS AIRES BLVD. D-14-3

Corp. Line

Ex. 42" Water Line

20" HP Gas Line

S.R. 161

MATCH LINE Sta. 813+12

MATCH LINE Sta. 1281+00 See Sheet No. 56

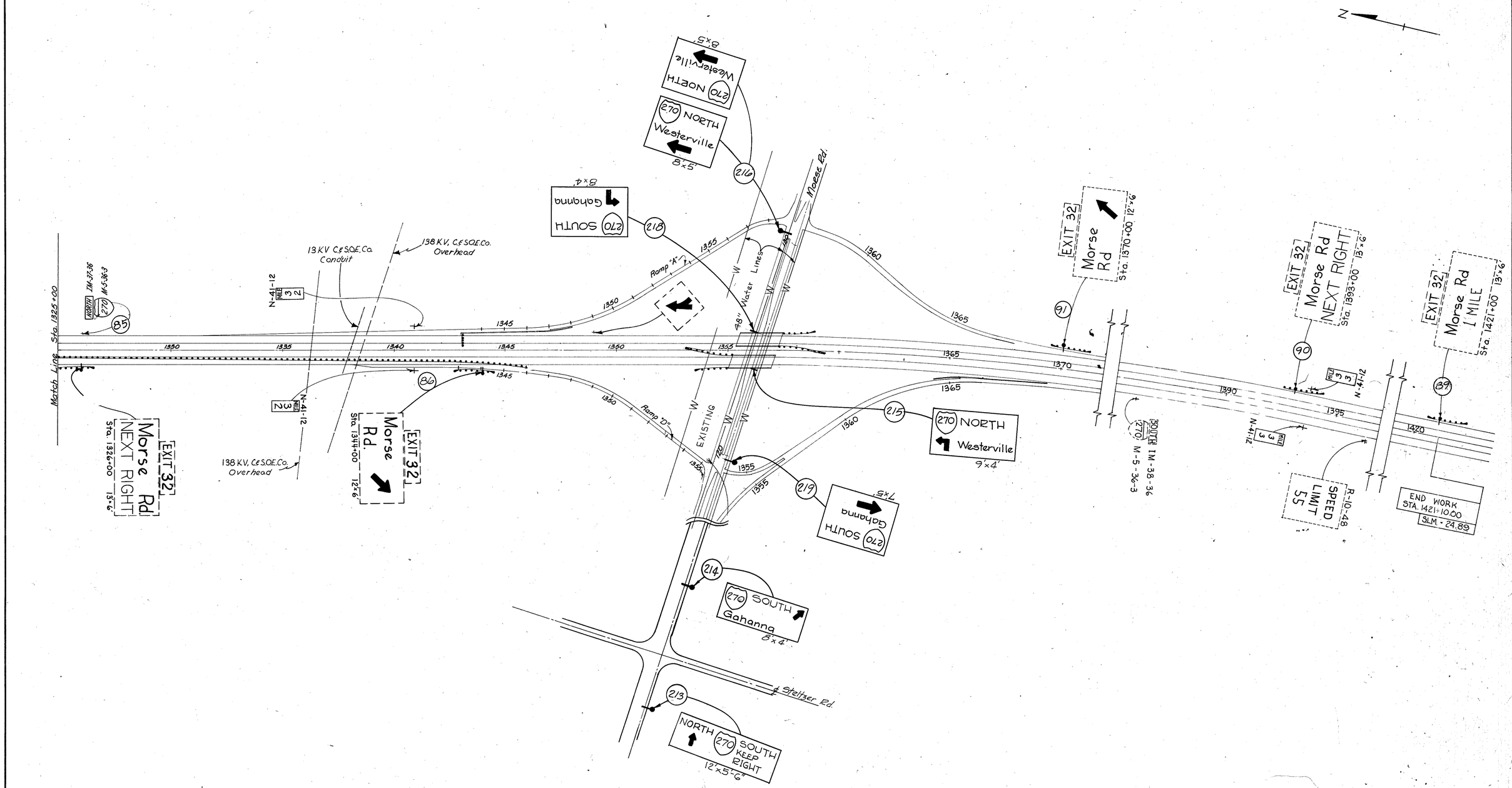
⊕ Mounded Light Pole Foundations

IR-270 Sta 1245+00 to 1281+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

PLAN NO. LM-6-81-2

17
51



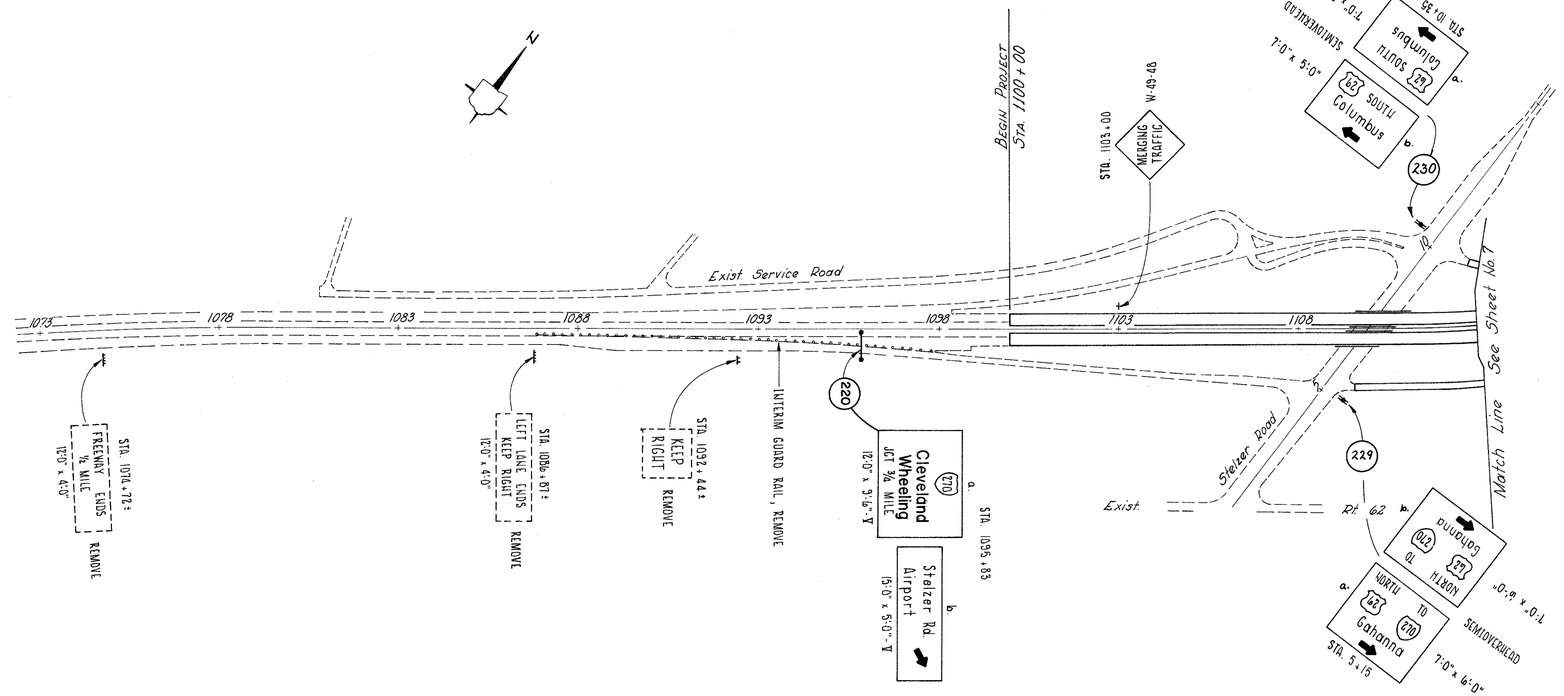
IR-270 Sta 1325+00 - Sta 1421+10

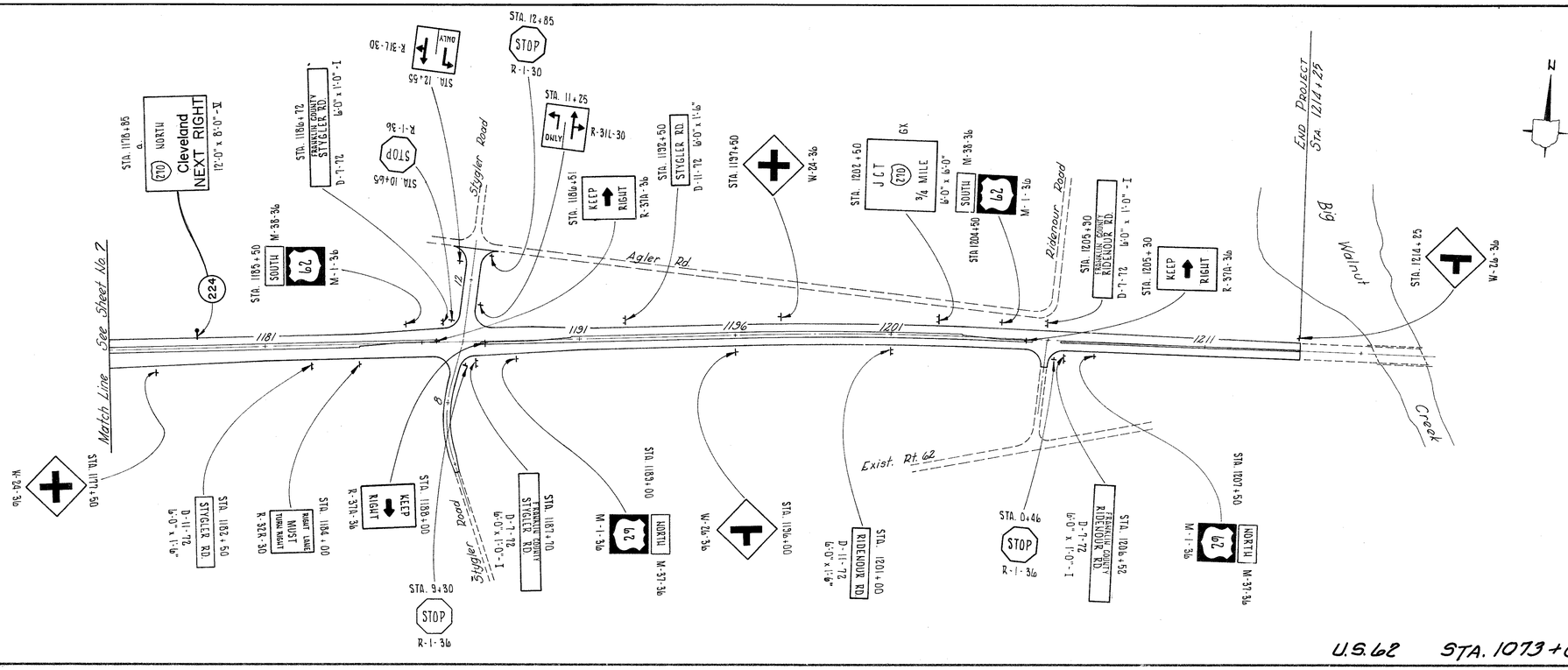
I-270 & U.S. 62 INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

19
51

Plan Nº LM-6-81-2

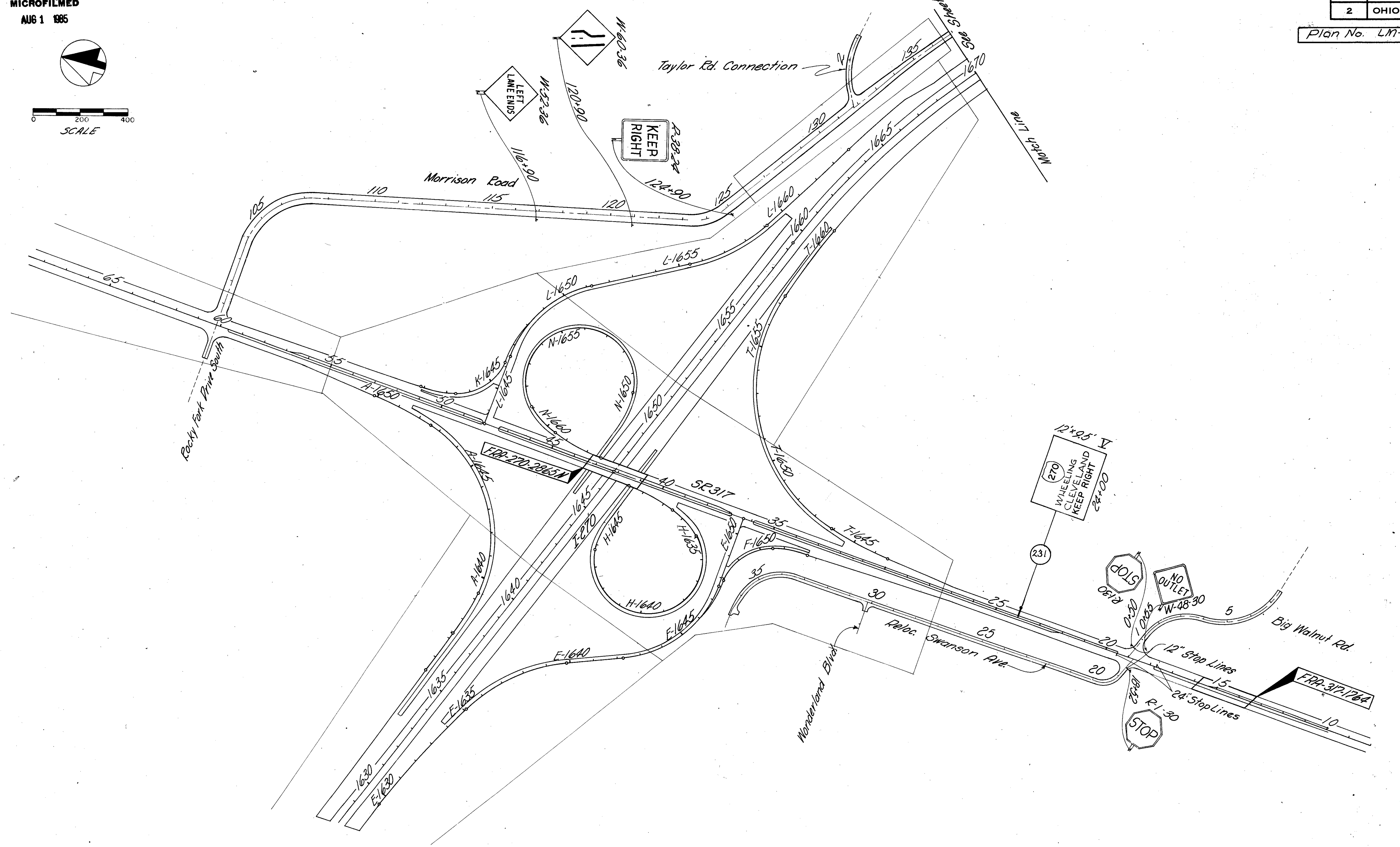




U.S. 62 STA. 1073+00 TO STA. 1214+25

FED. RD. DIVISION	STATE	PROJECT
2	OHIO	

Plan No. LM-6-81-2



I-270 & S.R. 317 INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

21/51

Plan Nº LM-L-81-2

317 NORTH Gahanna
270 NORTH Cleveland 1/4 MILE
270 SOUTH Wheeling
232
Wonderland Blvd
Reloc. Swanson Ave.
12" Stop Line
STOP R-1-30
12"x6" (A)
12"x8" (B)
11"x6" (C)
9'+76
92+8
28
30
32
34
36
1647+75
WRONG WAY R-41A-36
24" Broad Transverse Stripes
8" Solid White Stripes
4" Edge Lines
ONLY ONLY R-31L-M00
R-41-B DO NOT ENTER
YIELD R-2-48
31+00
31+65
Painted Curb 1650+25 to 1652+08 (White)
8" Solid White Stripe
4" Lane Lines (White)
S.R. 317
T-1644
T-1646
T-1648
T-1650
E-1644
E-1646
E-1648
E-1650
1650+21
1646+36
W-14L-30
WP-14L-24
R-15B-30 PEDESTRIANS AND BICYCLES PROHIBITED
H-1640
H-1642
H-1638
H-1636
H-1634
1644+00
1644+27
1634+48
1634+80
W-32-48
Lane Arrows 1649+75
24" Stop Lines
45
x90
25+
98+98
R-37-A KEEP RIGHT
TR-121-24 NO LEFT TURN
R-120-36
R-41-B DO NOT ENTER
TR-120-24 NO RIGHT TURN
1639+00 WRONG WAY R-11A-36
4" Edge Line
W-9A-48
WP-9A-24
(White) Painted Curb 1644+00 to 1648+78
6" Lane Lines
I-270
1642
1644
1646
1648
1650
39.74
236
40
42
6" Lane Lines

I-270 & S.R. 317 INTERCHANGE (South Side)

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

22
51

Plan Nº LM-6-81-2

6" Lane Lines
4" Edge Lines
8" Solid White Stripe
24" Brood Transverse Stripes
8" Solid White Stripe
4" Edge Lines
4" Lane Lines (White)
March Line See 269
Painted Curb (Yellow)
24" Stop Lines
24" Brood Transvere Stripes
4" Edge Lines
Painted Curb 1643+70 to 1641+88 (White)
8" Solid White Stripe
4" Edge Lines
8" Solid White Stripes
24" Broad Transverse Stripes
4" Lane Lines (White)
8" Solid White Stripes
Painted Curb 1645+18 to 1649+90 (White)
4" Edge Lines
6" Lone Lines
4" Edge Lines
PEDESTRIANS AND BICYCLES PROHIBITED
KEEP RIGHT
DO NOT ENTER
LANE ARROWS
ONLY
NO RIGHT TURN
NO LEFT TURN
MERGE
YIELD
WRONG WAY
NORTH
SOUTH
Cleveland
Whitehall
R-121-36
R-120-36
R-120-24
R-311-MOD
R-248
W-49-48
WP-49-24
WP-46-24
W-49-30
R-41-B
R-41-C
R-41-D
R-41-E
R-41-F
R-41-G
R-41-30
R-41A-36
R-41B-36
R-41C-36
R-41D-36
R-41E-36
R-41F-36
R-41G-36
R-41H-36
R-41I-36
R-41J-36
R-41K-36
R-41L-36
R-41M-36
R-41N-36
R-41O-36
R-41P-36
R-41Q-36
R-41R-36
R-41S-36
R-41T-36
R-41U-36
R-41V-36
R-41W-36
R-41X-36
R-41Y-36
R-41Z-36
A(1) 8'11" x 15'6"
B(1) 8'11" x 15'6"
C(1) 8'11" x 15'6"
A(2) 8'11" x 15'6"
B(2) 8'11" x 15'6"
C(2) 8'11" x 15'6"
A(3) 8'11" x 15'6"
B(3) 8'11" x 15'6"
C(3) 8'11" x 15'6"
A(4) 8'11" x 15'6"
B(4) 8'11" x 15'6"
C(4) 8'11" x 15'6"
A(5) 8'11" x 15'6"
B(5) 8'11" x 15'6"
C(5) 8'11" x 15'6"
A(6) 8'11" x 15'6"
B(6) 8'11" x 15'6"
C(6) 8'11" x 15'6"
A(7) 8'11" x 15'6"
B(7) 8'11" x 15'6"
C(7) 8'11" x 15'6"
A(8) 8'11" x 15'6"
B(8) 8'11" x 15'6"
C(8) 8'11" x 15'6"
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I-270 & S.R. 317 INTERCHANGE (North Side)

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

23
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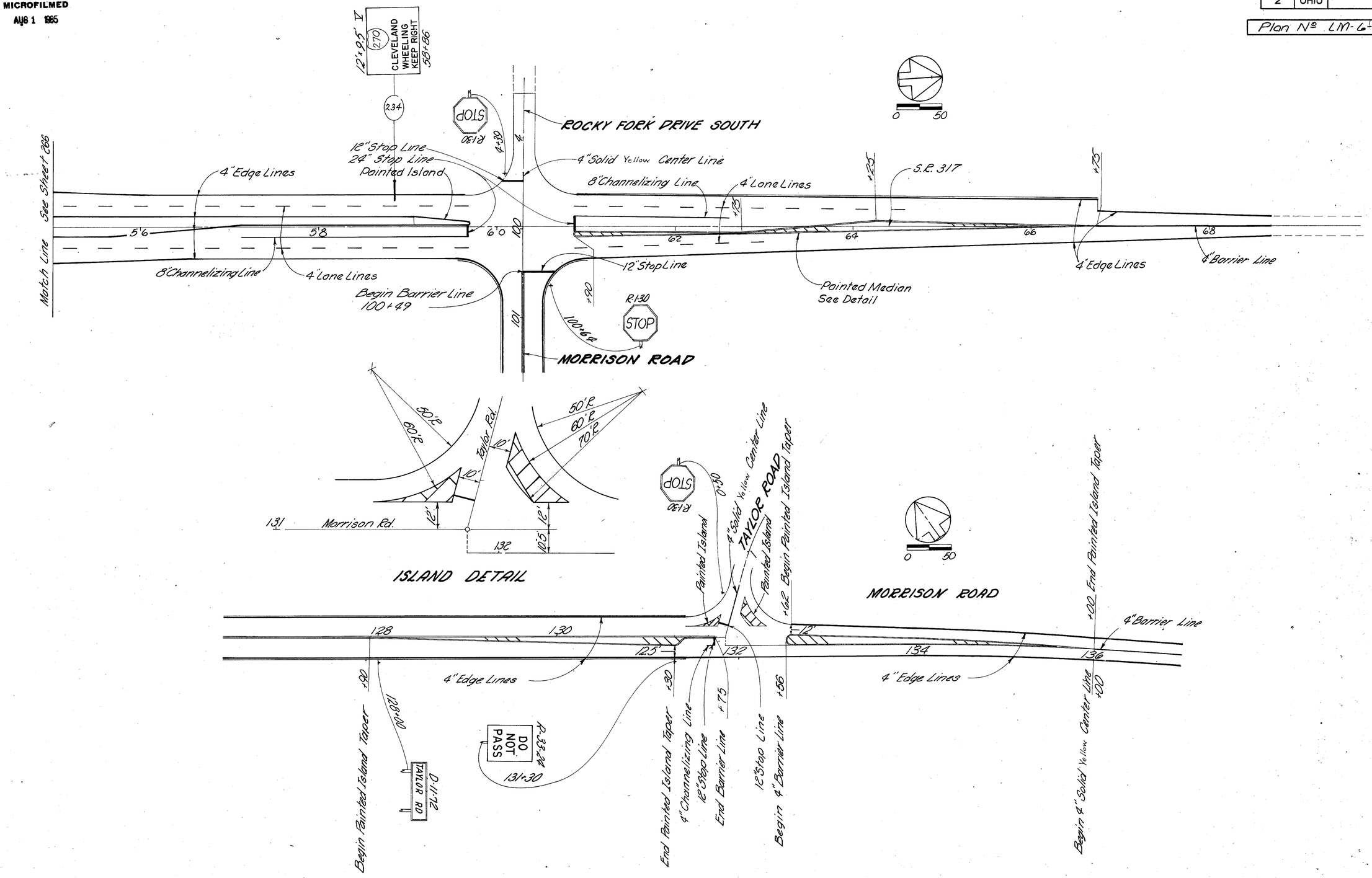
Plan No. LM-6-81-2



S.R. 317 & MORRISON ROAD

Plan Nº LM-G-81-2

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

24 / 51

MICROFILMED AUG 1 1985

SCALE IN FEET 50 0 50

MATCH LINE See Sheet No.224

771+05 NORTH 3 SOUTH D-2-72

101+20 NORTH M-37-24 / 3 M-2-24

773+30 ONLY R-3IL-30

776+00 ONLY R-3IL-30

772+30 STOP R-1-36

770+78 STOP R-1-36

Curb & Gutter

EXIST. S.R. 161

779+93 on Ramp B — R-41-24 DO NOT ENTER

779+60 STOP R-1-36 — TO M-8-24 / 3 M-2-24 / M-24-20 / Westerville 3 D-4-1 (11'x2')

785+33 STOP AHEAD W-45-48

785+22 EXIT N-12-72

782+70 161 M-2-36

781+30 R-37A-24 KEEP RIGHT

781+50 W-32-48

779+00 MERGING TRAFFIC W-49-36

RAMP A — RAMP B — RAMP C — RAMP D — Ramp D-1

287 — 161 WEST Worthington Group VIII (8'x5') — 779+10

289 — 161 WEST Worthington / 161 WEST Worthington Group VIII (8'x5')

777+60 3 M-2-24 / M-25-20 / 5 Columbus / 3 Westerville D-4-2 (11'x4')

291 — 161 EAST New Albony

BRIDGE NO. FRA-161-1460

290 — 161 WEST Worthington

284

777+43 EXT 35 MPH W-3-36

776+45 (a) 161 14'x6' New Albany / (b) JCT 3/4 MILE 12'x6' 270 / (c) Westerville 15'x6' 3

93+80 NORTH M-37-24 / 3 M-2-24

288 — (8'x5') b. 161 EAST New Albany / a. 161 EAST New Albany Group VIII (8'x5')

778+35 KEEP RIGHT R-37A-24

783+00 3 M-2-24 / M-25-20 / 5 Columbus / 3 Westerville D-4-2 (11'x4')

782+50 TO 3 M-2-24 / M-8-24 / M-27-20

778+34 on Ramp C R-1-36 STOP — DO NOT ENTER R-41-24

788+25 161 EAST New Albany Group VIII (8'x5')

286

788+82,6'RT. 788+82,12'RT. 788+82,18'RT. X-1-18

780+00 SPEED LIMIT 35 R-10-24

787+00 KEEP RIGHT R-37A-24

778+50 KEEP RIGHT R-37A-24

780+60 W-32-48

782+50 MERGING TRAFFIC W-49-36

98+60 SOUTH M-38-24 / 3 M-2-24

Curbing — Raised Median — SOUTH APPROACH ROAD

MATCH LINE See Sht. No. 224

S.R. 3 & S.R. 161 INTERCHANGE

MICROFILMED
AUG 1 1985

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

25/51

Plan Nº LM-6-81-2

SCALE IN FEET
50 0 50

N

℄ Exist S.R. 161

Group IV (15' x 6')
3
Westerville
787 + 64

285

LINE

MATCH

786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801

℄ SURVEY S. R. 161

X - 181
ML 788+33.33 LT
143.63 LT
148.13 LT

END T-4016(3) RESUME SU-89(1.1)

BRIDGE NO. FRA-161-1509

ALUM CREEK

798+80
ALUM CREEK
GJ
(5'x3.5')

799+75
SPEED LIMIT
45
R-101-36

796+40
ALUM CREEK
GJ
(5'x3.6')

161
799+30
EAST
M-39-36
M-2-36

161 EAST
New Albany
Westerville
JCT 1/4 MILE

819+50
270 NORTH
270 SOUTH
Gahanna

812+00
JCT
3
1/2 MILE
(9' x 9')

810+00
BUENOS AIRES BLVD
D-11-120

807+80
KEEP
RIGHT
R-37A-36

806+00
KEEP
RIGHT
R-37A-36

805+30
161
M-2-36

803+75
SPEED ZONE AHEAD
R-11-48

BUENOS AIRES BLVD

801+90
BUENOS AIRES BLVD
D-11-120

802 803 804 805 806 807 808 809 810 811 812 813 814

END PROJECT
FRA-161-13.45
STA. 806+26.03

I-270-5(16)112

270 SOUTH
Gahanna
RIGHT LANE
Group IV
(12' x 8')
809+00

Existing Overhead Sign Support and Sign

S.R. 161 STA. 786+00 To STA. 806+26.03

MICROFILMED
AUG 1 1985

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

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Plan Nº LM-6-81-2

(a.) SUNBURY RD. 8'X4'
(b.) WEST TO 161 270 WORTHINGTON 12'X4'
(c.) EAST 161 NEW ALBANY 8'X5'
(d.) SUNBURY RD. 8'X4'
STA. 32+00

STA. 45+00 JCT 161 24"X12" 24"X24"
STA. 42+00 WEST 161 EAST 8'X2'-6" 20"X15" 270 30"X25" TO 24"X12"
STA. 34+82 WEST TO 270 161 WORTHINGTON 11'X5'
STA. 855+25 b 270 NORTH WESTERVILLE ONLY 12'X8'
a 161 WEST WORTHINGTON 16'X8'
270 SOUTH GAHANNA JCT.I/4 MILE
270 NORTH WESTERVILLE ONLY
161 WEST WORTHINGTON

297 298 295 296 292 293 294
BIG WALNUT CREEK
SERVICE RD. "C"
TEMPORARY RD. NORTH
TEMPORARY RD. SOUTH
CUL-DE-SAC
SUNBURY RD. RELOC.
SUNBURY ROAD
SERVICE RD. "D"
RAMP "D"
RAMP "F"
RAMP "C"
RAMP "A"
HOOVER DAM SUNBURY RD. 10'X4' F-STA. 867+00
HOOVER DAM SUNBURY RD. 17'X5'
b 270 WESTERVILLE GAHANNA JCT.I/2 MILE 13'X9.5' STA. 873+50
a 161 WEST WORTHINGTON 13'X6'
HOOVER DAM SUNBURY RD. EXIT ONLY ON BRIDGE 17'X8'
EXIT 6'X5' STA. 867+95
HOOVER DAM SUNBURY RD. 1/2 MILE 14'X7' STA. 899+00
SOUTH HOOVER DAM SUNBURY RD. 10'X5' C-STA. 873+50
a 161 EAST NEW ALBANY 9'X5' STA. 23+00
b EAST 161 NEW ALBANY 9'X5' STA. 23+00
b 161 NEW ALBANY EXIT SUNBURY RD. ONLY HOOVER DAM 14'X7'
a 161 EAST NEW ALBANY 16'X8' STA. 855+15
WEST 161 EAST 8'X2'-6" 270 30"X25" TO 24"X12" 20"X15" STA. 18+00
JCT 161 24"X12" 24"X24" STA. 13+00
Outerbelt
860 865 870 875 880 PROP. SR. 161 885 890 895
LAKE
SERVICE RD. "A"
SERVICE RD. "B"
CHERRY BOTTOM RD.
CUL-DE-SAC
40 30 25 20 10

0 100 200 300 400 500
SCALE: 1"= 200'

S.R. 161 & SUNBURY ROAD INTERCHANGE

MICROFILMED
AUG 1 1985

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

27/51

PLAN NO. LM-G-81-2

I-270 & E. BROAD ST. INTERCHANGE

MICROFILMED
AUG 1 1985

FED. RD. DIVISION	STATE	PROJECT	
5	OHIO		

28/51

PLAN NO. LM-G-81-2

MATCH LINE A-A

E Reloc Noe-Bixby Rd

City of Whitehall / City of Columbus

City of Whitehall
City of Columbus

R-11A-24 REDUCED SPEED 35 AHEAD

W-49R-36

W-49R-24 MERGE

SOUTH TO 270 WEST 40 Whitehall 10'x8'

EXIT 41B 40 Main St Reynoldsburg 20'x9.5'

EXIT 41B 40 Main St Whitehall 16'x9.5'

EXIT 41A 40 WEST Main St Whitehall 16'x9.5'

EXIT 41A 40 EAST Main St Reynoldsburg NEXT RIGHT 16'x9.5'

EXITS 43A-B 70 Columbus Wheeling 14'x9.5'

EXIT 39 16 Broad St 1/4 MILE 15'x9.5'

N-41-12 MILE 4 1

W-49R-48

EXIT 30 MPH

RAMP "K"

RAMP "J"

RAMP "L"

RAMP "M"

RAMP "Q"

RAMP "R"

RAMP "P"

RAMP "N"

RAMP 30 MPH

EXIT 30 MPH

EXIT 41A

EXIT 41B

PROHIBITED PEDESTRIANS BICYCLES MOTORCYCLES (Except Mopeds) R-150-30

PROHIBITED PEDESTRIANS BICYCLES MOTORCYCLES (Except Mopeds) R-150-30

SOUTH TO 270 NEXT RIGHT 13'x8'

NORTH 270 Gahanna 15'x6'

KEEP RIGHT R-3R-24

E MCNAUGHTEN RD

SOUTH TO 270 WEST 40 9'x6'

NORTH 270 12'x8'

SOUTH TO 270 WEST 40 13'x8'

KEEP RIGHT 270 12'x6'

KEEP RIGHT 270 12'x6'

SOUTH 270 10'x8'

Cyclone NEXT RIGHT

MERGE W-49R-24

W-49R-48

EXIT 41A

PROHIBITED PEDESTRIANS BICYCLES MOTORCYCLES (Except Mopeds) R-150-30

EXIT 30 MPH

WRONG WAY R-41A-36

DO NOT ENTER R-41B-30

ONLY ONLY R-31G

Reynoldsburg 13'x8'

EAST 40

HURON 270 15'x6'

W-49R-48

EXIT 41A 40 WEST Main St Whitehall 16'x9.5'

Cleveland 270 (a) 17'x9.5'

EXIT 41A 40 WEST Main St Whitehall NEXT RIGHT (b) 17'x11.5'

EXIT 41A 40 EAST Main St Reynoldsburg EXIT ONLY (c) 20'x11.5'

8' Channelizing Line

MATCH LINE STA. 1085+00

City of Columbus Truro Twp.

Truro Twp. City of Columbus

E-E-MAIN

CITY OF COLUMBUS TRURO TWP.

NORTH 270

EXITS 43A-B 70 Columbus Wheeling 17'x9.5'

EXIT 41A-B 40 Main St Whitehall Reynoldsburg 17'x11.5'

EXIT 41A 40 WEST Main St Whitehall 13'x11.5'

CINCINNATI 270 17'x11.5'

CITY OF COLS TRURO TWP

TRURO TWP CITY OF COLS

END WORK STA. 1150+00 L.M. = 64.77

MATCH LINE A-A

IR270 STA.1085+00 TO STA.1150+00

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FED. RD. DIVISION	STATE	PROJECT	
5	OHIO		

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51

PLAN NO. LM-C-81-7

IR 270 STA. 817+00 TO STA. 879+00

MICROFILMED
AUG 1 1985

FED. RD. DIVISION	STATE	PROJECT	
5	OHIO		

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51

PLAN NO. LM-G-81-2

VILLAGE OF OBETZ

MATCH LINE STA. 665+00

IR 270

GROVEPORT ROAD

ALUM CREEK DRIVE

LINDSAY RD.

HOWARD RD.

RELOC. ALUM CREEK DRIVE

RAMP W

RAMP X

RAMP Y

RAMP V

SAMSON FRONTAGE ROAD

RATHMILL ROAD

CORP. LINE.

GROVEPORT
FRANKLIN COUNTY
MADISON TWP

MATCH LINE STA. 725+00

IR 270 STA. 665+00 TO STA. 725+00

MICROFILMED
AUG 1 1985

FED. RD. DIVISION	STATE	PROJECT	
5	OHIO		

31/51

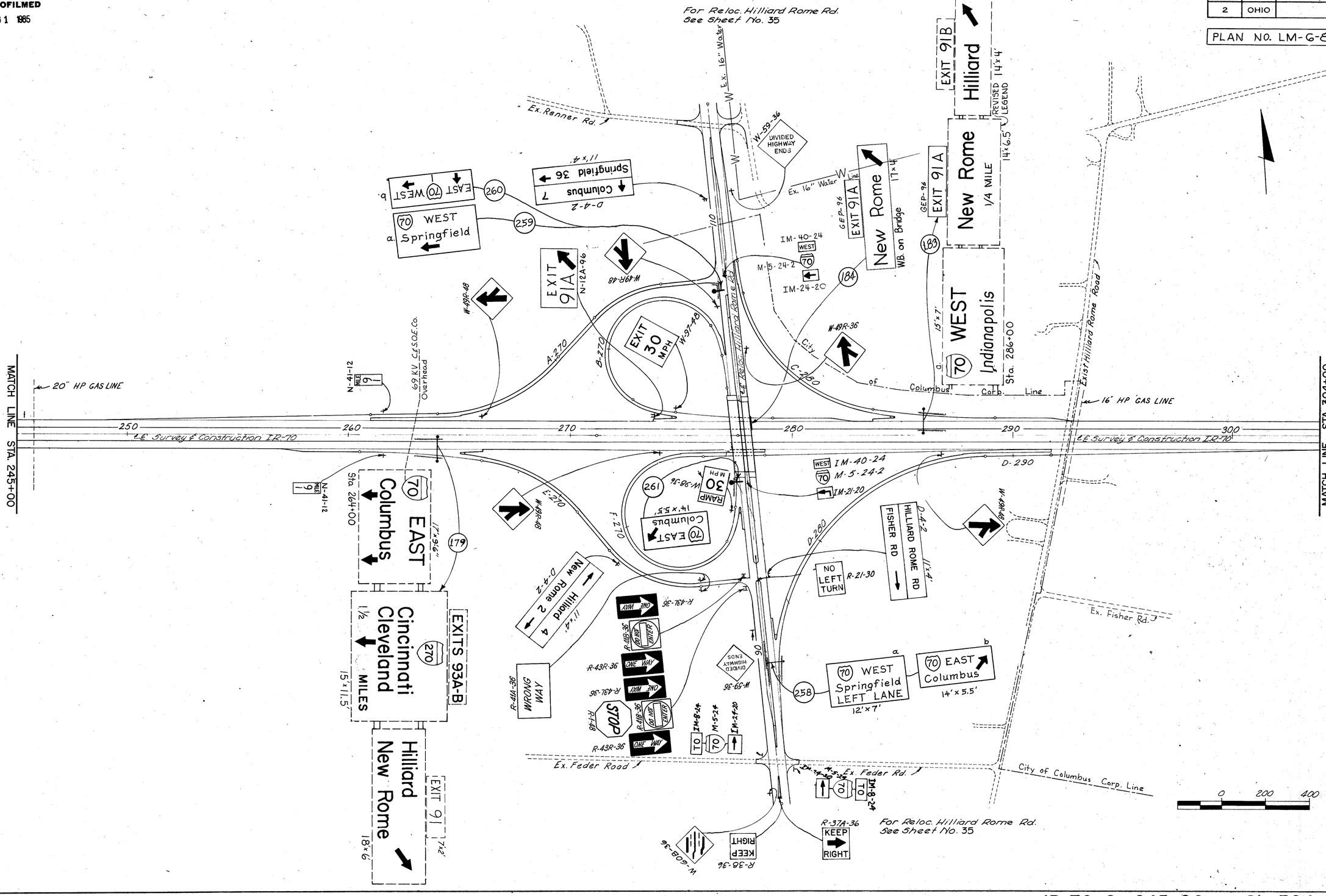
PLAN NO. LM-G-81-2

IR270 STA. 468+00 TO STA. 535+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

32
51

PLAN NO. LM-G-81-2



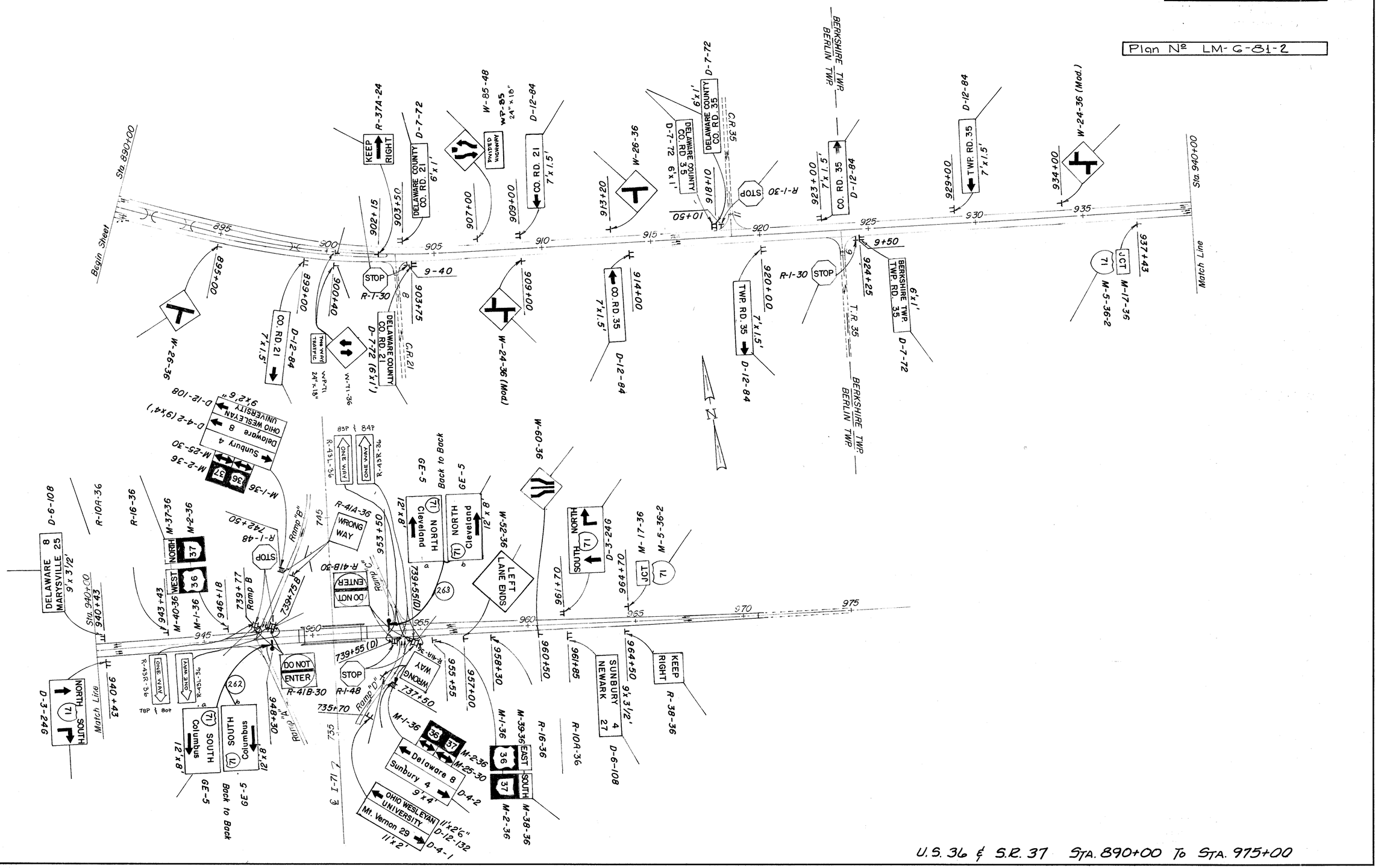
IR-70 Sta 245+00 to Sta 304+00

MICROFILMED
AUG 1 1985

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR

33
51

Plan Nº LM-G-81-2



U.S. 36 & S.R. 37 STA. 890+00 To STA. 975+00

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR

34/51

Plan Nº LM-G-81-2

Exist. U.S.R. 35

M-40-24 WEST 35 M-1-24 M-24-20

D-4-2

Washington C.H. 2 ← Dayton 43

10+00 10+10

FAYETTE COUNTY PALMER ROAD D-7-12 (6x1')

D-4-2 Chillicothe 37

Washington C.H. 2 →

M-24-20 M-1-24 M-39-24 WEST 35 EAST

D-2-72 (6'x2') 19+00

JCT 35 M-17-24 M-1-24

5 15+00 58+20

EAST 35 M-19-20 M-1-24 M-39-24

4+00 7+00

RIGHT LANE MUST TURN RIGHT

10+56 R-1-36 STOP

55 11+80

R-32R-30 R-43R-36 ONE WAY

R-41B-30 ENTER DO NOT ENTER

R-43L-36 ONE WAY

52+50 11+80

15 Ramp "A" 20

M-1-36 M-24-30 35 Washington C.H. 2 Dayton 43 D-4-2

17+00

M-1-36 (Future) 621+90 Begin Temp. G.R.

EXIT N-12-72

625+25 Palmer Rd. GB 11'x5' II 264

630+00 DO NOT PASS R-33-30

W-138-36

635+25 End Temp G.R.

638+50 12'x4' LEFT LANE ENDS MERGE RIGHT W-54-144 I

※NOTE: This part of sign to be covered with blank overlay.

D-3-24 6 WEST 35 EAST 8'x2'-6"

600 605 610 615 620 625 630 635 640 645

Sta 650+00 Match Line

Palmer Rd. Right Lane 12'x5" I

D-3-24 G WEST 35 EAST 8'x2'-6"

48+00 Ramp "B" 15

R-164-36 MERGING TRAFFIC W-49-36 (Future) 618+00

※Overlay D-4-1 Chillicothe 37 46+00

BEGIN PROJECT STA. 620+00

637+00 EAST 35 M-1-36 M-39-36

SPEED LIMIT 70 TRUCKS 55 R-16-48 R-10-48 647+00

M-24-20 M-1-24 M-39-24 EAST 35

JCT 35 M-17-36 M-1-36

Palmer Rd. Reloc. 11+00

SIGN MESSAGE

PROHIBITED
PEDESTRIANS
FARM MACHINERY
ANIMALS
BICYCLES OR MOTORCYCLES
(LESS THAN 5 BRAKE HP)

End Work Sta. 40+25

41+50 Palmer Rd. Conn. 0+20

STOP R-1-30

40 35 Exist. Palmer Rd.

Begin Work Sta. 31+40

656+75 12'x4' LEFT LANE ENDS 1/2 MILE W-54A-144

Sta 650+00 Match Line

655 660 665 670 675 680 685 690 695

Washington C.H. NEXT 3 EXITS 17'x5' GT 656+00

22 62 3 Washington C.H. Hillsboro Exit 1 Mile 17'x10' I GB 667+20

675+00 12'-5' PALMER RD. EXIT 1 MILE GB

FREEWAY ENDS 1 MILE Interim Overlay

Exist. Jamison Rd.

30 Turnaround

Jamison Rd. Reloc. 20 15

Jonesboro Rd. Sta. 700+00

Exist. G.R.

22 62 3 Washington C.H. Hillsboro RIGHT LANE 17'x10' I 695+00

Begin Work Sta. 12+50

Jonesboro Rd.

End Sheet

U.S. 35 & PALMER RD. INT.

MICROFILMED
AUG 1 1985

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR

35
51

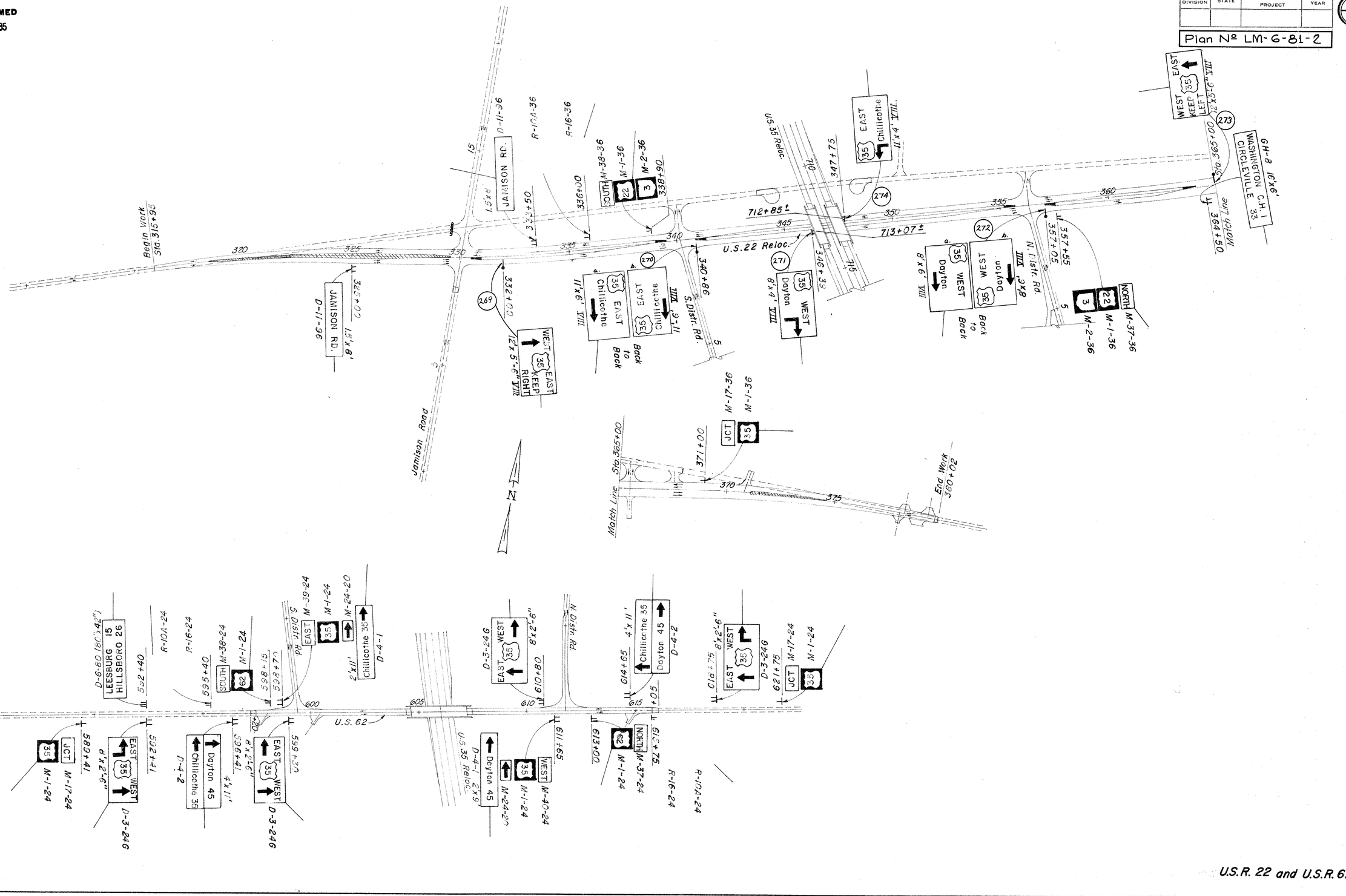
Plan Nº LM-C-81-2

U.S.R. 35 & U.S.R. 22 and U.S.R.62 INT.

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR

Plan Nº LM-6-81-2

36/51



U.S.R. 22 and U.S.R. 62

MICROFILMED
AUG 1 1985

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR

37
51

Plan Nº LM-6-81-2

Begin Sheet Sta. 760+00
765+00
765
770
775
780
785
790
795
800
805
810
815
Match Line Sta. 820+00
Jackson 64 Charleston 64 GH 6'x15'
WEST 35 M-40-36 M-1-36
769+00
MERGING TRAFFIC W-49-48
783+50
Ramp "A"
End Work Sta. 572+65
570
SR 41
565
560
555
550
Begin Work Sta. 548+25
Ramp "B"
Ramp "C"
Ramp "D"
Ramp "E"
41 M-2-36 M-25-30 Washington C.H. 2 Greenfield 14 D-4-2
800+00
801+65
35 M-1-36
EXIT N-12-72
805+75
806+00
41 Greenfield V 14'x6' (t.)
3 62 22 278 Washington C.H. Hillsboro EXIT 1 1/2 MILES V 10'x10' (t.)
277
41 Greenfield 14'x6' V
783+25
785+85
EXIT N-12-72
35 M-1-36
788+85
791+25
41 Greenfield Washington C.H. 14 M-25-30 M-2-36 D-4-2
MERGING TRAFFIC W-49-48
803+00
Match Line Sta. 820+00
825
830
835
840
845
850
855
860
865
870
875
End Sheet Sta. 880+00
35 EAST M-39-36 M-1-36 820+25
41 Greenfield RIGHT LANE 12'x 8'-6" V
833+00
EXIT 1 MILE 11'x 6'-6" V 73
835+00
FREEWAY ENDS 1 MILE W-55-144 12'x4' V
845+00
Xenia 27 Dayton 47 GH 11'x6'
850+00
RIGHT LANE 11'x5' V 73
857+00
41 Greenfield EXIT 1 MILE 12'x8'-6" V
860+00
SPEED LIMIT 70 TRUCKS 55
867+25
R-10-48 R-16-48 D.T.&I. Railroad
Exist. C.R.
Rock Bridge Rd.
873+50
35 WEST M-40-36 M-1-36
LEFT LANE ENDS 1/2 MILE W-54 A-1-44 12'x4' V
871+50
END PROJECT STA. 876+75

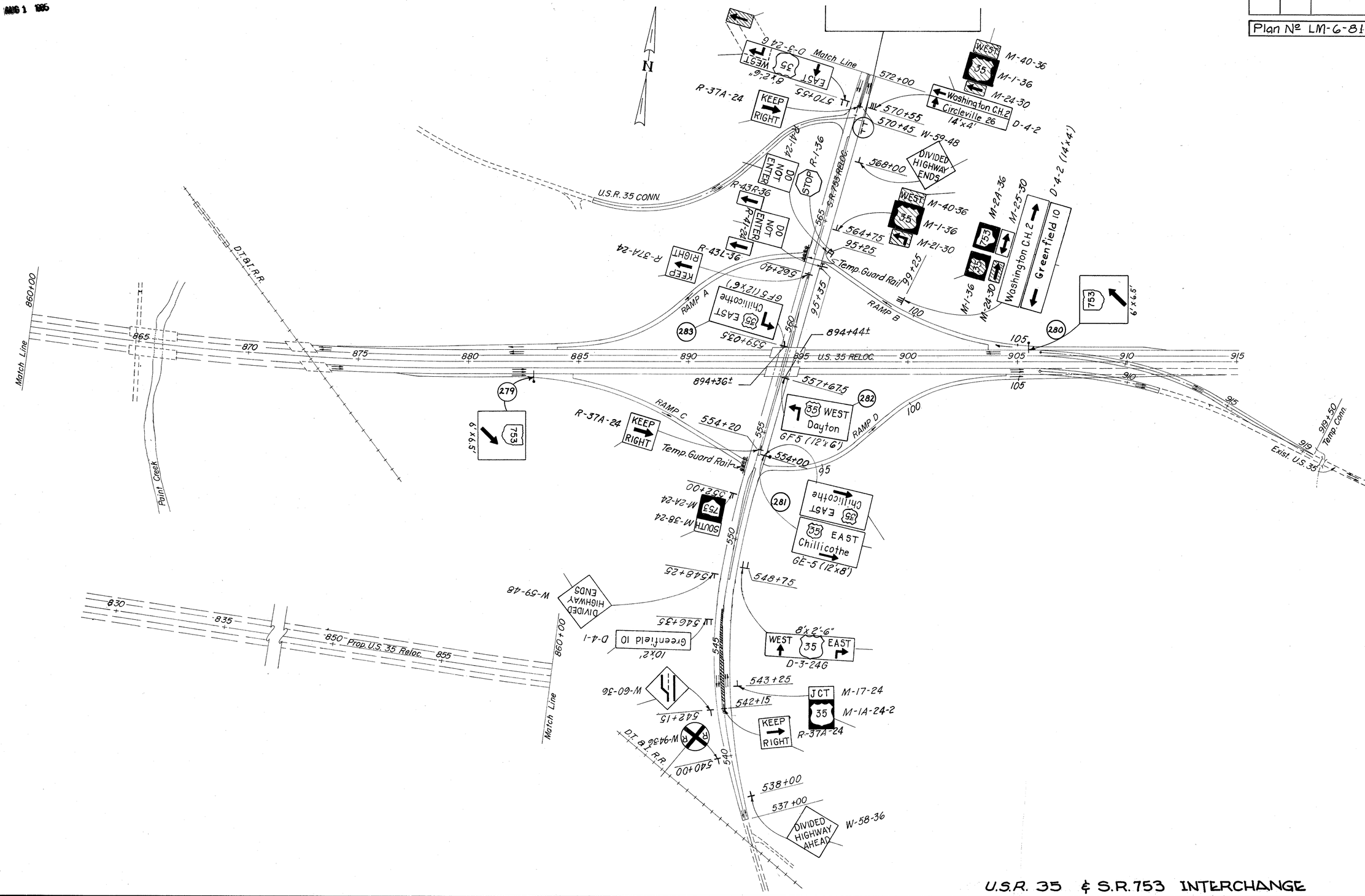
U.S.R. 35 & S.R. 41 INT.

MICROFILMED
AUG 1 1985

FED. RD. DIVISION	STATE	PROJECT	FISCAL YEAR

38
51

Plan Nº LM-6-81-2

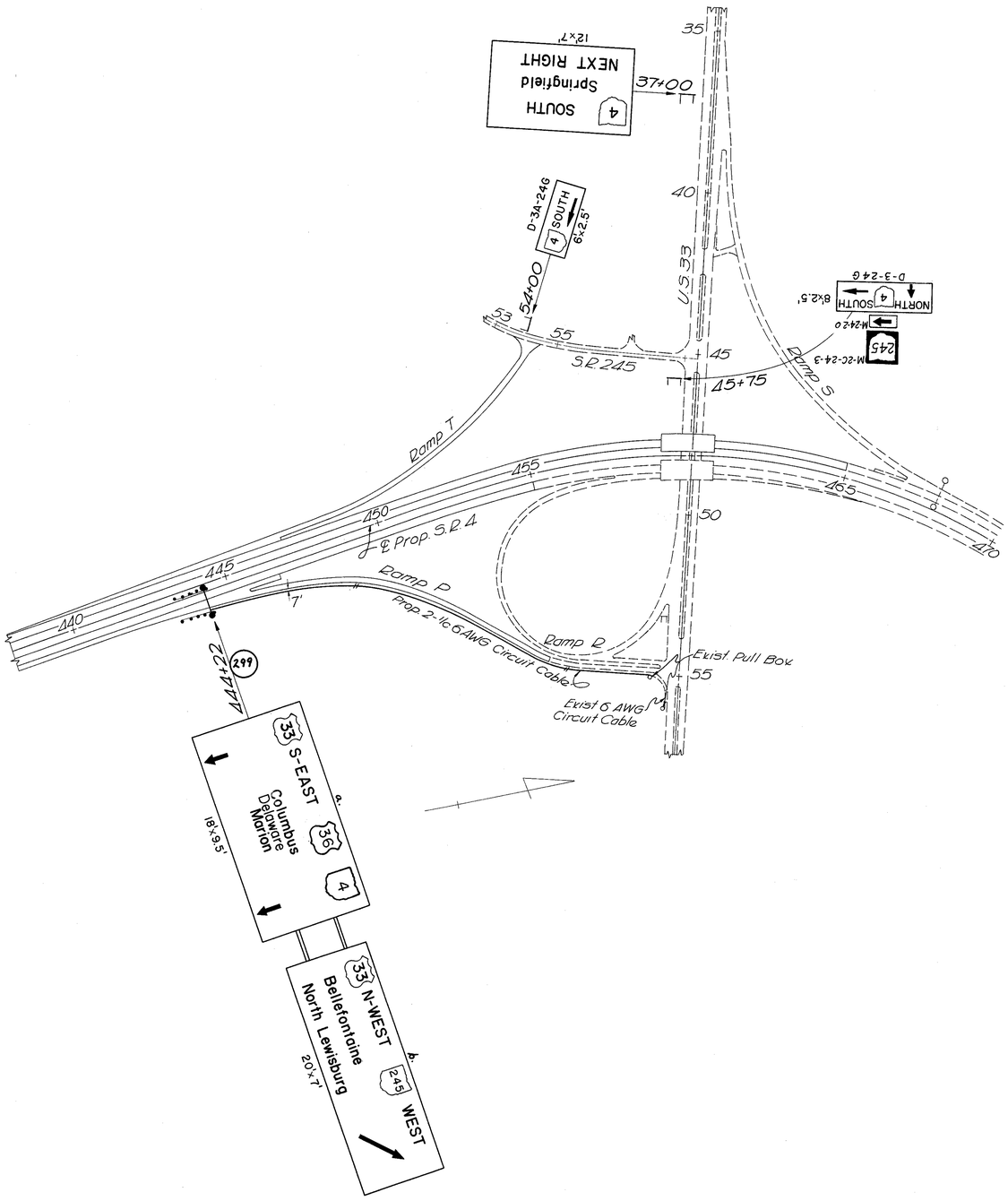


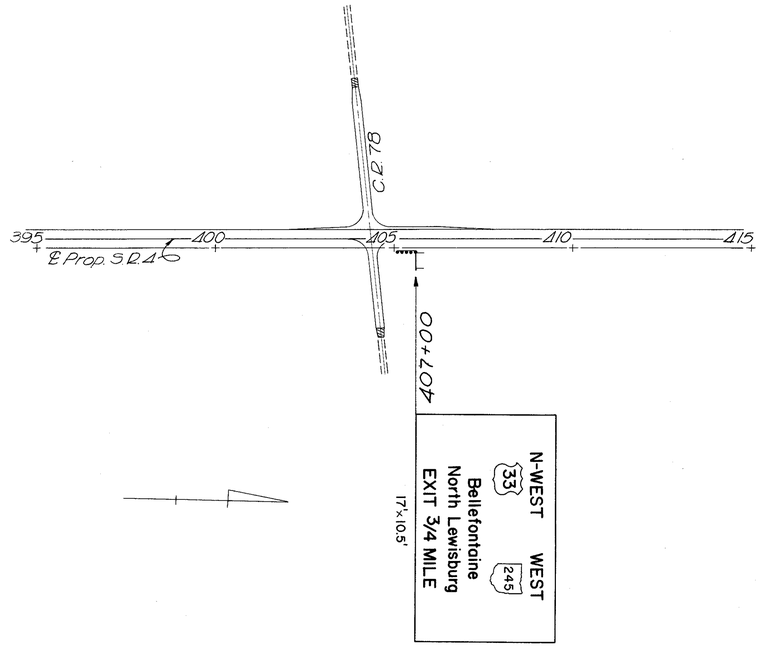
U.S.R. 35 & S.R. 753 INTERCHANGE

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

39/51

Plan Nº LM-6-81-2





S.R. 4, U.S. 33 & U.S. 36 INTERCHANGE

MICROFILMED
1991 1995

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

40
51

Plan Nº LM-6-81-2

U.S. 33, U.S. 36 & S.R. 4

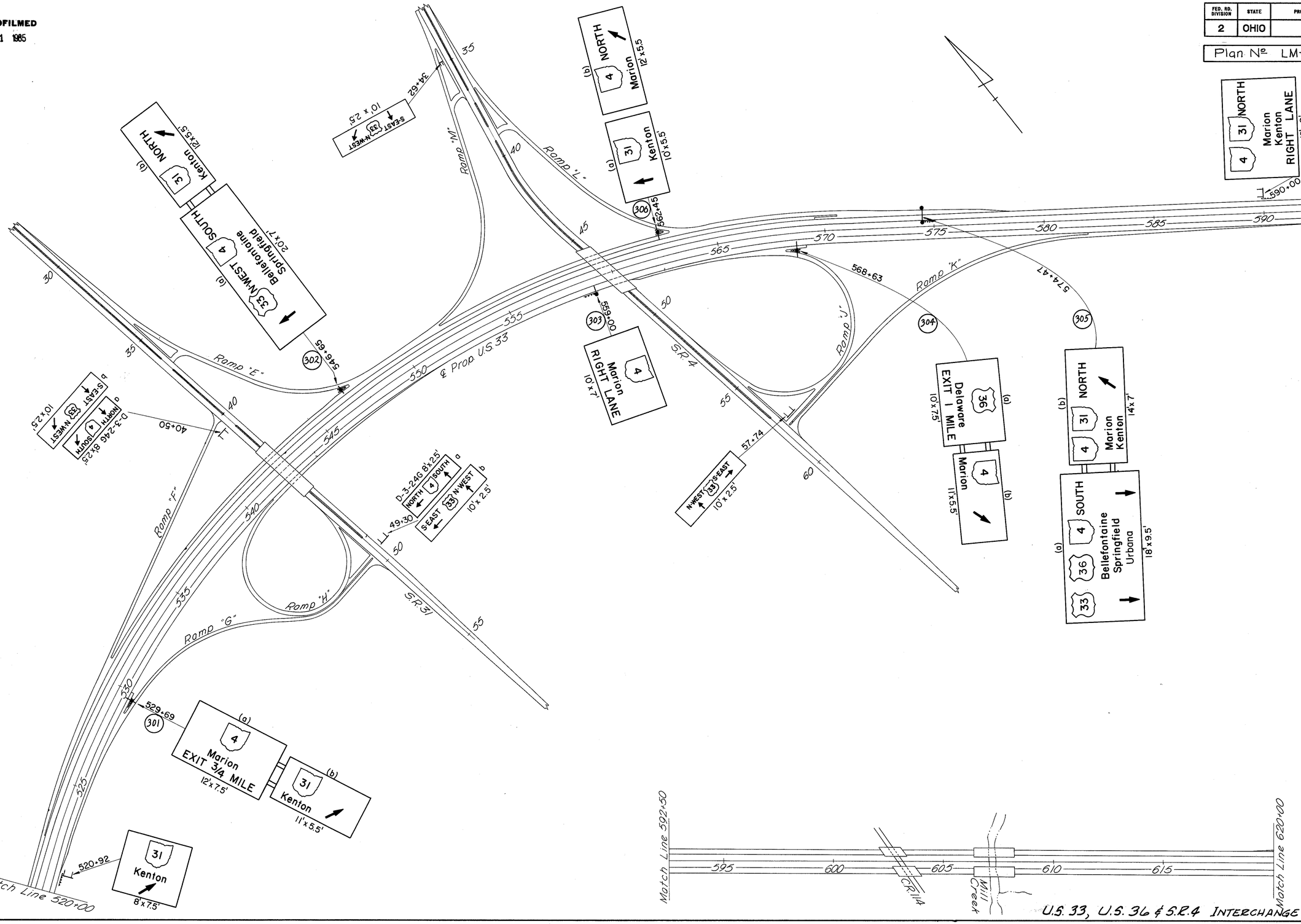
Sta. 440+00 to Sta. 520+00

MICROFILMED
AUG 1 1985

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

41/51

Plan No. LM-6-81-2



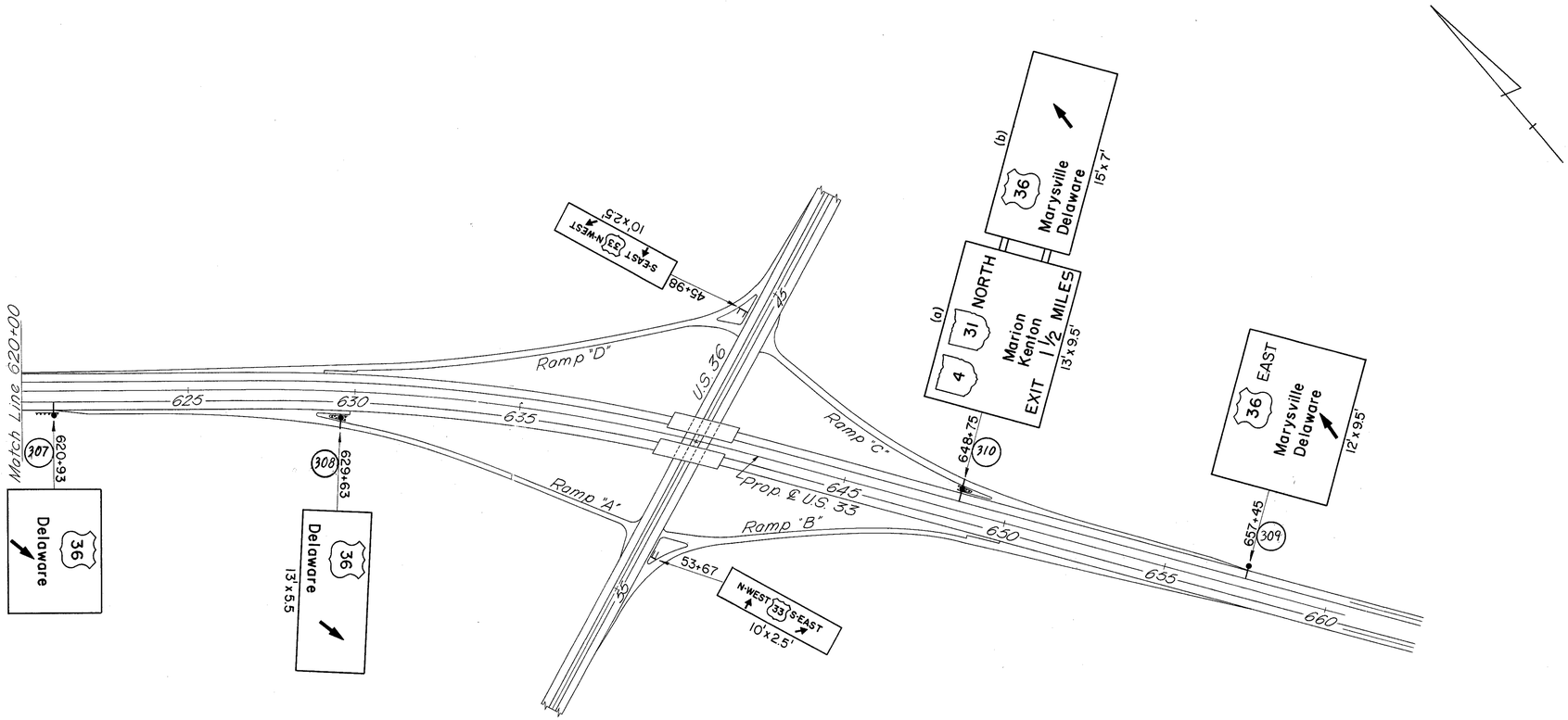
U.S. 33, U.S. 36 & S.R. 4 INTERCHANGE

Sta. 520+00 to Sta. 620+00

FED. RD. DIVISION	STATE	PROJECT	
2	OHIO		

42/51

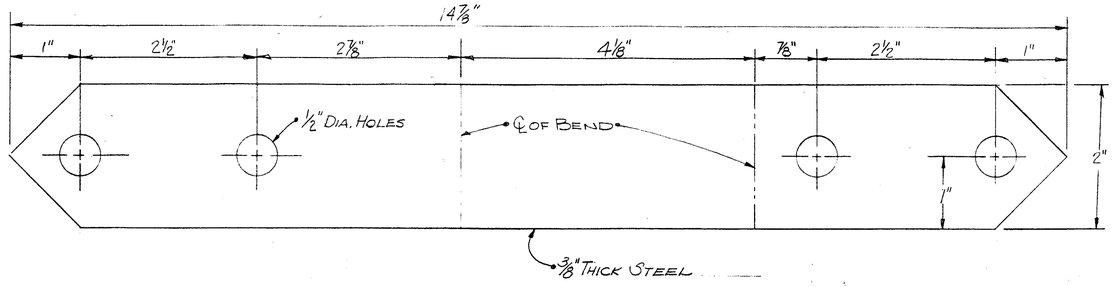
Plan Nº LM-6-81-2



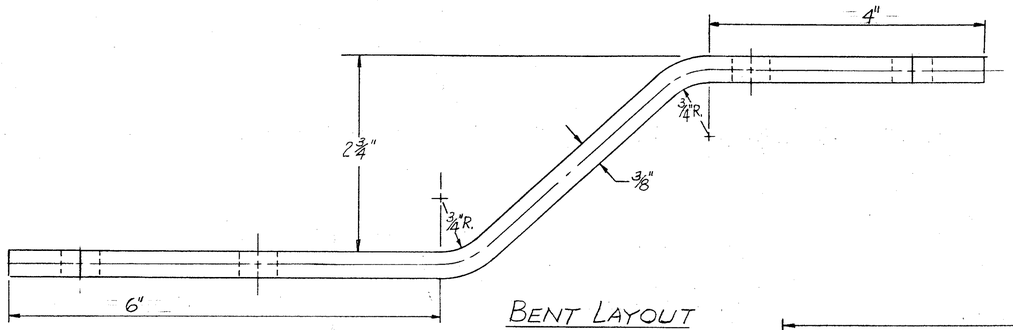
U.S. 33 & U.S. 36 INTERCHANGE

Sta. 620+00 to Sta. 710+00

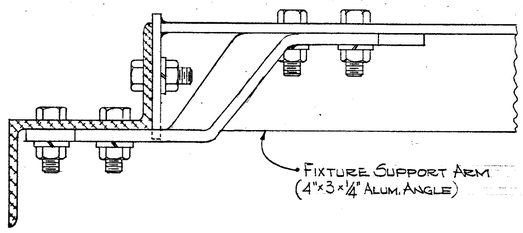
PLAN Nº LM-6-81-2

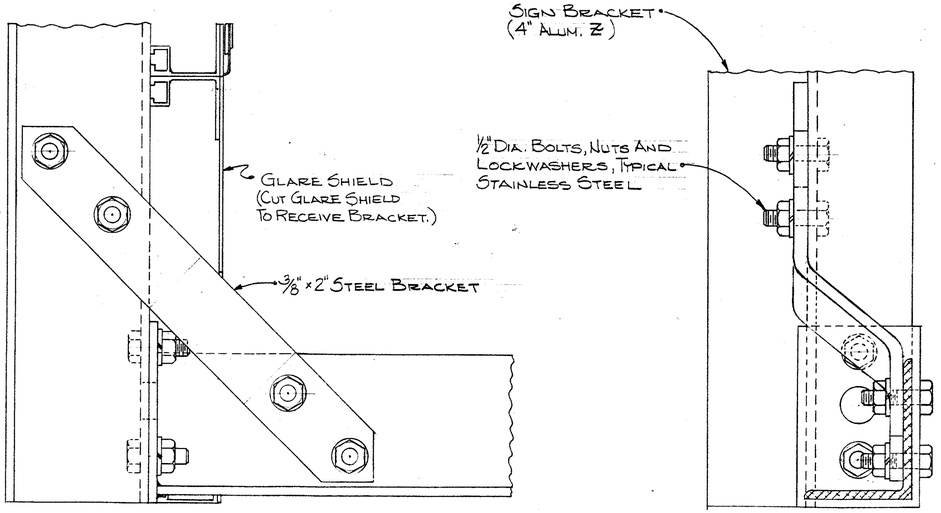


FLAT LAYOUT

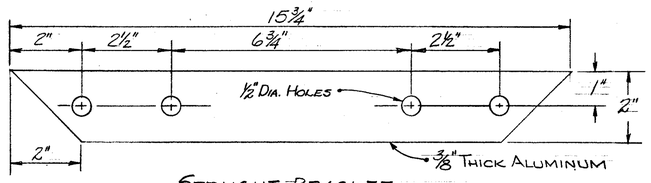


BENT LAYOUT

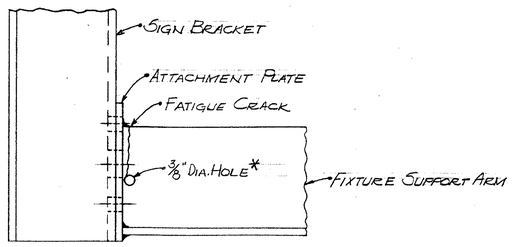




ASSEMBLY DETAILS
(FOR REVERSED INSTALLATION)



STRAIGHT BRACKET
(FOR PROPERLY INSTALLED SUPPORT ARMS)



* DRILL A 3/8" DIAMETER HOLE AT THE BASE OF VISIBLE FATIGUE CRACKS. WHERE CRACKS ARE NOT VISIBLE, A 3/8" DIAMETER HOLE SHALL BE DRILLED THROUGH THE VERTICAL LEG OF THE ANGLE APPROXIMATELY 2" FROM THE TOP, FLUSH WITH THE ATTACHMENT PLATE.

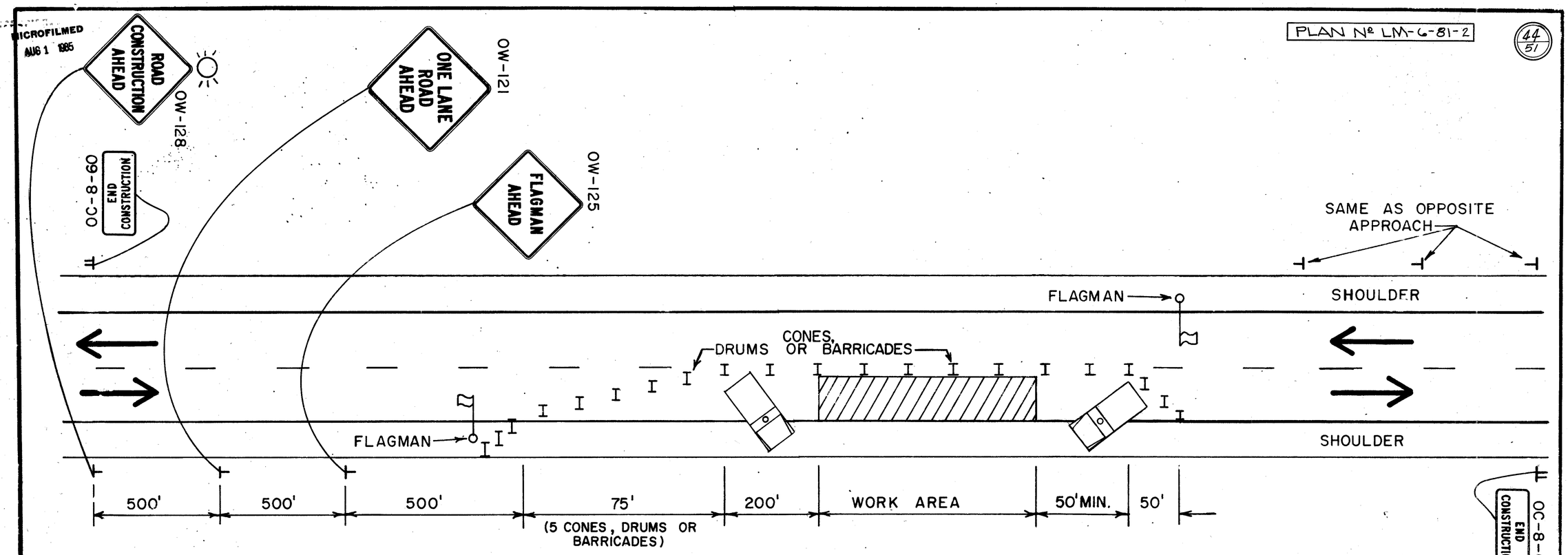
FATIGUE CRACK RETARDING

BUREAU OF DESIGN SERVICES
DIVISION OF HIGHWAYS
OHIO DEPARTMENT OF TRANSPORTATION

DATE 1-21-77

FIXTURE SUPPORT ARM REPAIR BRACKETS

PLAN Nº LM-6-81-2



GENERAL NOTES

1. FLAGMEN SHALL BE USED TO CONTROL TRAFFIC CONTINUOUSLY FOR AS LONG AS ONE LANE OPERATION IS IN EFFECT. FLAGMAN SHALL COMMUNICATE WITH EACH OTHER AT ALL TIMES AS DESCRIBED IN THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES IN THE SECTION "FLAGMAN CONTROL". FLAGMEN STATIONS SHALL BE ADEQUATELY ILLUMINATED FOR NIGHT-TIME OPERATIONS BY USE OF A 175 WATT MINIMUM LUMINAIRE.

2. CONES, DRUMS, OR BARRICADES SHALL BE SPACED AT 50 FOOT CENTERS FOR THE FIRST 1000 FEET OF THE WORK AREA AND AT A MAXIMUM OF 100 FEET FOR THE BALANCE OF THE WORK AREA. CONES MAY BE SUBSTITUTED FOR BARRICADES OR STEEL DRUMS FOR THE LANE CLOSURES DURING DAYLIGHT HOURS ONLY.

3. SEVERAL SMALL WORK SITES CLOSE TOGETHER SHALL BE COMBINED INTO ONE WORK AREA TO MAKE A CLOSURE NOT MORE THAN 2000 FEET LONG INCLUDING TAPERS. CLOSURES MORE THAN 2000 FEET MAY BE APPROVED BY THE ENGINEER. THE MINIMUM LENGTH BETWEEN CLOSURES SHALL BE 2000 FEET. ONLY ONE SIDE OF THE ROAD SHALL BE CLOSED IN ANY ONE WORK AREA.

4. THE WORK TRUCKS SHOWN AT EACH END OF THE WORK AREA SHALL BE IN PLACE AND UNOCCUPIED WHENEVER MEN ARE WORKING WITHIN THE WORK AREA. THESE TRUCKS SHALL BE MOVED FROM THE PAVEMENT WHENEVER WORKMEN ARE NOT IN THE WORK AREA. OTHER PROTECTIVE DEVICES MAY BE USED IN LIEU OF THE WORK TRUCKS SHOWN WHEN APPROVED BY THE ENGINEER.

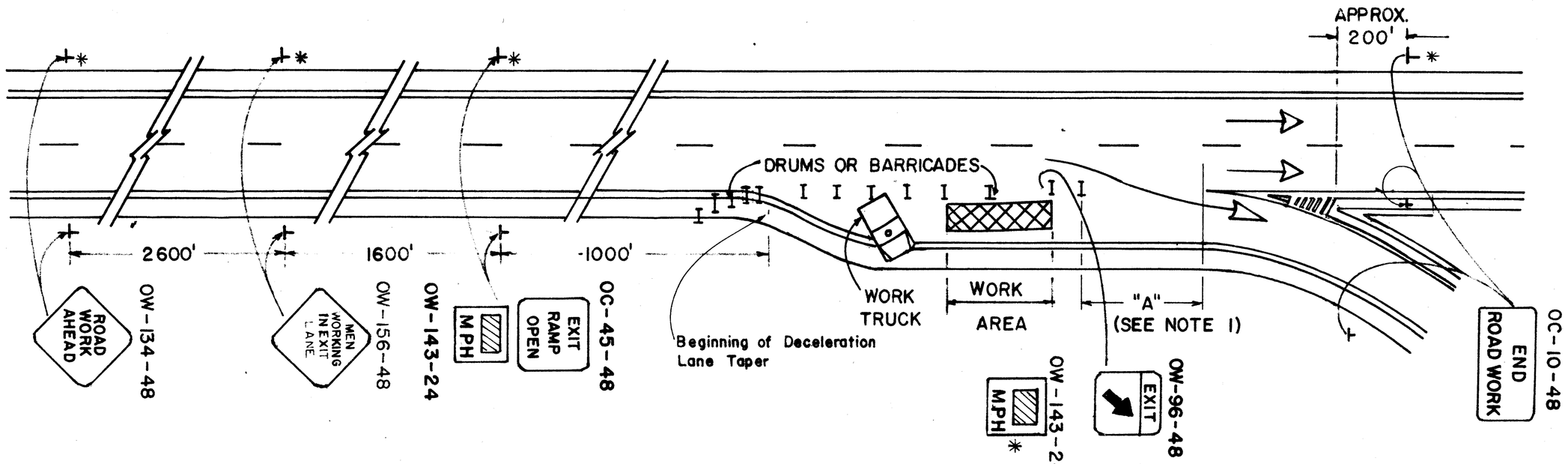
5. THE TYPE B HIGH INTENSITY BARRICADE WARNING LIGHT SHOWN ON THE ROAD CONSTRUCTION AHEAD SIGN, IS REQUIRED WHENEVER NIGHT LANE CLOSURE IS NECESSARY.

6. TYPE C STEADY BURNING BARRICADE WARNING LIGHTS SHALL BE ERECTED ON DRUMS OR BARRICADES FOR NIGHT LANE CLOSURES. MAXIMUM SPACING SHALL BE 50' CENTER TO CENTER IN ADVANCE OF THE WORK AREA AND 200' CENTER TO CENTER WITHIN THE WORK AREA.

OHIO DEPARTMENT OF TRANSPORTATION

FLAGMEN CLOSING I LANE OF A 2 LANE HIGHWAY	DATE 4/77
DR. GBD	CK. RLB

PLAN Nº LM-6-81-2



* OPTIONAL SIGN ERECTED WITH THE APPROVAL OF THE ENGINEER.

GENERAL NOTES.

1. THIS WORK AREA TRAFFIC CONTROL APPLICATION SHALL ONLY APPLY WHEN THE DISTANCE "A" IS GREATER THAN 100'. WHEN DISTANCE "A" IS LESS THAN 100', THE RAMP SHALL BE CLOSED. WHEN THE RAMP IS CLOSED, THE TRAFFIC CONTROL SHALL INCLUDE DETOUR SIGNING FOR EXIT RAMP CLOSURES IN ACCORDANCE WITH OMUTCD.

2. DRUMS OR BARRICADES SHALL BE SPACED AT 50 FOOT CENTERS. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS FOR THE LANE CLOSURES DURING DAYLIGHT HOURS ONLY.

3. TYPE C STEADY BURNING BARRICADE WARNING LIGHTS SHALL BE ERECTED ON DRUMS OR BARRICADES FOR NIGHT LANE CLOSURES. MAXIMUM SPACING SHALL BE 50' CENTER TO CENTER IN ADVANCE OF THE WORK AREA AND 200' CENTER TO CENTER WITHIN THE LIMITS OF THE WORK AREA.

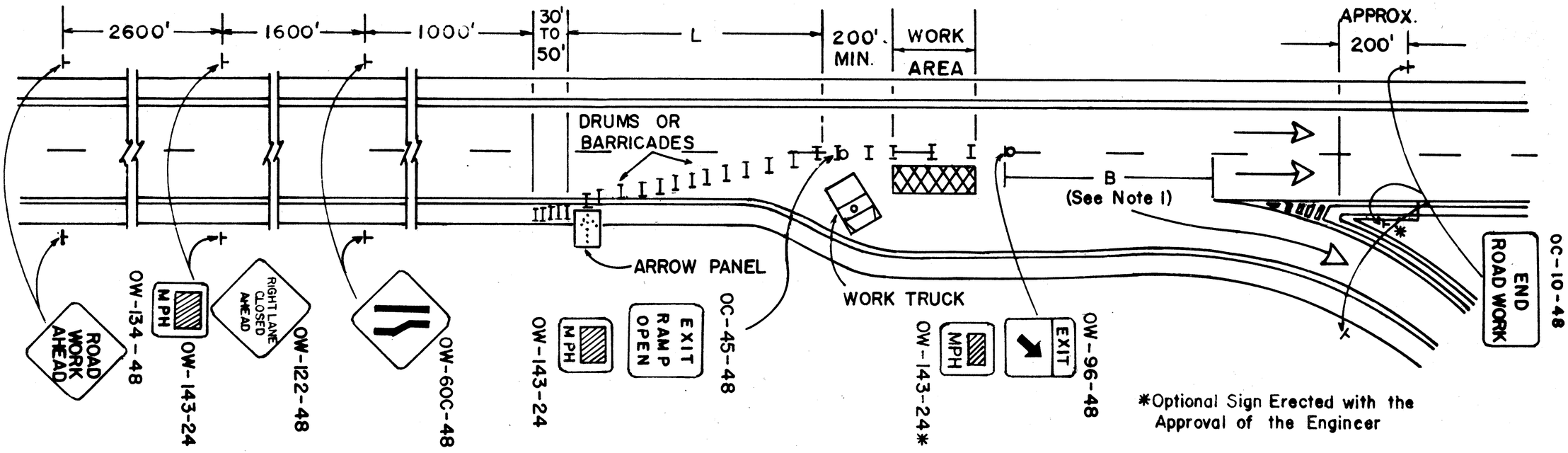
4. THE WORK TRUCK SHOWN AT THE BEGINNING OF THE WORK AREA SHALL BE IN PLACE AND UNOCCUPIED WHENEVER MEN ARE WORKING WITHIN THE WORK AREA. THIS TRUCK SHALL BE MOVED FROM THE PAVEMENT WHENEVER WORKMEN ARE NOT IN THE WORK AREA. OTHER PROTECTIVE DEVICES MAY BE USED IN LIEU OF THE WORK TRUCK SHOWN WHEN APPROVED BY THE ENGINEER.

5. THE SPACINGS BETWEEN CONSTRUCTION AND MAINTENANCE SIGNS SHOWN ON THIS DETAIL MAY REQUIRE ADJUSTMENTS (INCREASES OR DECREASES) TO ASSURE THAT THEY ARE POSITIONED NO CLOSER THAN 200 FEET TO EXISTING SIGNS AS DETERMINED BY THE ENGINEER.

6. SEE SHEET 50 WHEN THE WORK CAN BE CONFINED TO 8' FROM EDGE OF PAVEMENT LEAVING ADEQUATE PAVEMENT FOR TRAFFIC ON RAMP.

OHIO DEPARTMENT OF TRANSPORTATION

LANE CLOSURE IN DECELERATION LANE	DATE 8-3-79



GENERAL NOTES

1. THIS WORK AREA TRAFFIC CONTROL APPLICATION SHALL ONLY BE USED WHEN THE DISTANCE "B" IS 100 FEET OR GREATER. WHEN "B" IS LESS THAN 100 FEET, THE TRAFFIC CONTROL SHOWN ON THE "LANE CLOSURE AT EXIT GORE" DETAIL SHOULD BE USED, OR THE EXIT SHOULD BE CLOSED, OR THE TRAFFIC CONTROL ON THIS DRAWING MAY BE USED WITH APPROVAL OF THE ENGINEER. WHEN THE EXIT IS CLOSED, APPROPRIATE DETOUR SIGNS SHALL BE PROVIDED.

2. WHEN WORK IS BEING PERFORMED IN THE LANE ADJACENT TO THE MEDIAN ON A DIVIDED HIGHWAY, REFER TO THE TYPICAL WORK AREA TRAFFIC CONTROL SHOWN IN FIGURE C-21 OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

3. THE WORK TRUCK SHOWN AT THE BEGINNING OF THE WORK AREA SHALL BE IN PLACE AND UNOCCUPIED WHENEVER MEN ARE WORKING WITHIN THE WORK AREA. THIS TRUCK SHALL BE MOVED FROM THE PAVEMENT WHENEVER WORKMEN ARE NOT IN THE WORK AREA. OTHER PROTECTIVE DEVICES MAY BE USED IN LIEU OF THE WORK TRUCK SHOWN WHEN APPROVED BY THE ENGINEER.

4. THE FLASHING OR SEQUENCING ARROW PANEL SHALL BE IN ACCORDANCE WITH OMUTCD, SECTION 7G-8.

5. THIRTEEN (13) DRUMS OR BARRICADES SHALL EE USED TO FORM THE LANE TRANSITION TAPER IN ADVANCE OF THE WORK AREA. FIVE (5) CHANNELIZING DEVICES SHALL BE USED TO FORM THE TAPER ON THE SHOULDER. CONES, DRUMS, OR BARRICADES SHALL BE SPACED AT 50 FOOT CENTERS. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS FOR THE LANE CLOSURES DURING DAYLIGHT HOURS ONLY.

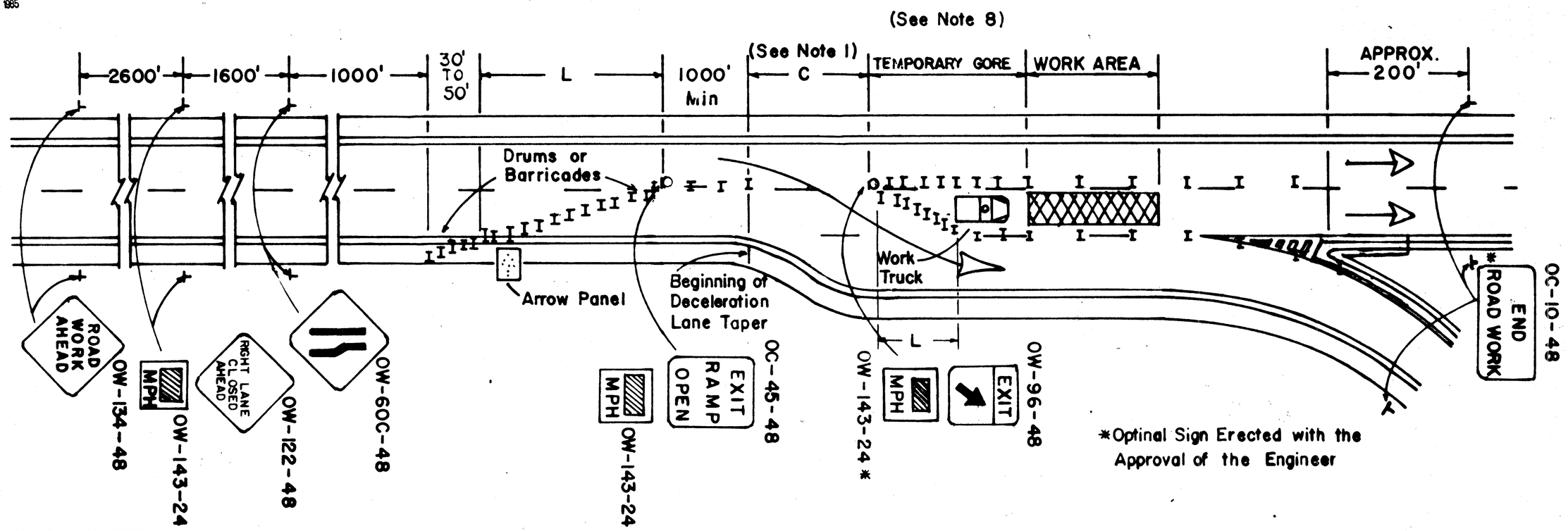
6. TYPE C STEADY BURNING BARRICADE WARNING LIGHTS SHALL BE ERECTED ON DRUMS OR BARRICADES FOR NIGHT LANE CLOSURES. MAXIMUM SPACING SHALL BE 50' CENTER TO CENTER IN ADVANCE OF THE WORK AREA AND 200' CENTER TO CENTER WITHIN THE LIMITS OF THE WORK AREA.

7. TAPER FORMULA SHALL BE IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, SECTION 7F-17.

8. THE SPACINGS BETWEEN CONSTRUCTION AND MAINTENANCE SIGNS SHOWN ON THIS DETAIL MAY REQUIRE ADJUSTMENTS (INCREASES OR DECREASES) TO ASSURE THAT THEY ARE POSITIONED NO CLOSER THAN 200 FEET TO EXISTING SIGNS AS DETERMINED BY THE ENGINEER.

OHIO DEPARTMENT OF TRANSPORTATION

LANE CLOSURE BEFORE EXIT GORE	DATE 8-3-79



GENERAL NOTES

1. **THIS WORK AREA TRAFFIC CONTROL APPLICATION SHALL ONLY BE USED WHEN THE DISTANCE "C" IS 100 FEET OR GREATER. WHEN "C" IS LESS THAN 100 FEET, THE TRAFFIC CONTROL SHOWN ON THE "LANE CLOSURE BEFORE EXIT GORE" DETAIL SHOULD BE USED, OR THE EXIT SHOULD BE CLOSED, OR THE TRAFFIC CONTROL ON THIS DRAWING MAY BE USED WITH APPROVAL OF THE ENGINEER. WHEN THE EXIT IS CLOSED, APPROPRIATE DETOUR SIGNS SHALL BE PROVIDED.**

2. WHEN WORK IS BEING PERFORMED IN ONLY THE LANE ADJACENT TO THE MEDIAN ON A DIVIDED HIGHWAY, REFER TO THE TYPICAL WORK AREA TRAFFIC CONTROL SHOWN IN FIGURE C-21 OF THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.

3. THE WORK TRUCK SHOWN AT THE BEGINNING OF THE WORK AREA SHALL BE IN PLACE AND UNOCCUPIED WHENEVER MEN ARE WORKING WITHIN THE WORK AREA. THIS TRUCK SHALL BE MOVED FROM THE PAVEMENT WHENEVER WORKMEN ARE NOT IN THE WORK AREA. OTHER PROTECTIVE DEVICES MAY BE USED IN LIEU OF THE WORK TRUCK SHOWN WHEN APPROVED BY THE ENGINEER. A TRUCK MOUNTED IMPACT ATTENUATOR MAY BE EMPLOYED.

4. THE FLASHING OR SEQUENCING ARROW PANEL SHALL BE IN ACCORDANCE WITH OMUTCD, SECTION 7G-**8**

5. THIRTEEN (13) DRUMS OR BARRICADES SHALL BE USED TO FORM THE LANE TRANSITION TAPER IN ADVANCE OF THE WORK AREA. FIVE (5) CHANNELIZING DEVICES SHALL BE USED TO FORM THE TAPER ON THE SHOULDER. CONES, DRUMS, OR BARRICADES SHALL BE SPACED AT 50 FOOT CENTERS. CONES MAY BE SUBSTITUTED FOR BARRICADES OR **DRUMS FOR THE LANE** CLOSURES DURING DAYLIGHT HOURS ONLY.

6. TYPE C STEADY BURNING BARRICADE WARNING LIGHTS SHALL BE ERECTED ON DRUMS OR BARRICADES FOR NIGHT LANE CLOSURES. MAXIMUM SPACING SHALL BE 50' CENTER TO CENTER IN ADVANCE OF THE WORK AREA AND 200' CENTER TO CENTER WITHIN THE LIMITS OF THE WORK AREA.

7. TAPER FORMULA SHALL BE IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, SECTION 7F-17.

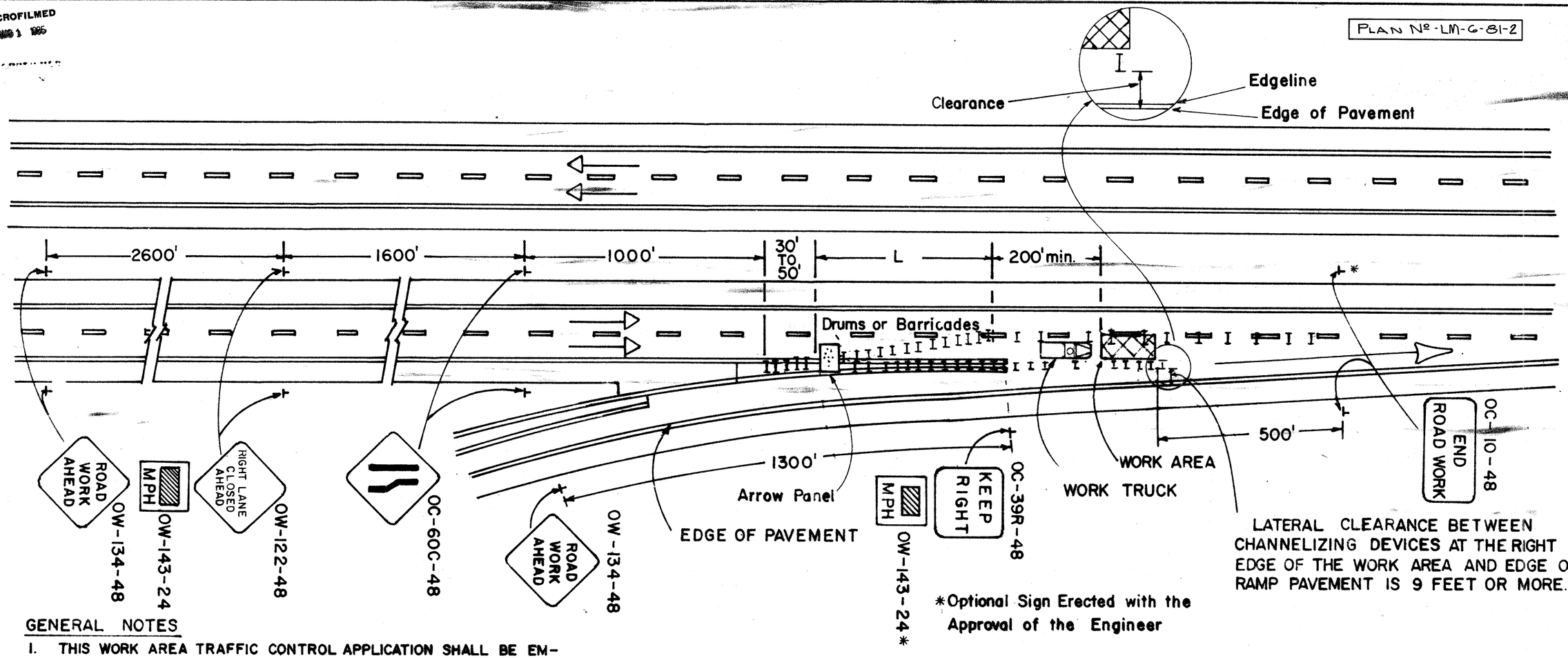
8. WHEN CREATING A TEMPORARY GORE, CHANNELIZING DEVICES SHOULD BE SPACED 25' CENTER TO CENTER SO AS TO CREATE A "SOLID GORE" **EFFECT.**

9. THE SPACINGS BETWEEN CONSTRUCTION AND MAINTENANCE SIGNS SHOWN ON THIS DETAIL MAY REQUIRE ADJUSTMENTS (INCREASES OR DECREASES) TO ASSURE THAT THEY ARE POSITIONED NO CLOSER THAN 200 FEET TO EXISTING SIGNS AS DETERMINED BY THE ENGINEER.

OHIO DEPARTMENT OF TRANSPORTATION

LANE CLOSURE AT EXIT GORE	DATE 8-3-79

PLAN Nº-LM-6-81-2



LATERAL CLEARANCE BETWEEN CHANNELIZING DEVICES AT THE RIGHT EDGE OF THE WORK AREA AND EDGE OF RAMP PAVEMENT IS 9 FEET OR MORE.

*Optional Sign Erected with the Approval of the Engineer

GENERAL NOTES

1. **THIS WORK AREA TRAFFIC CONTROL APPLICATION SHALL BE EMPLOYED WHEN THE LATERAL CLEARANCE BETWEEN THE CHANNELIZING DEVICES AT THE RIGHT EDGE OF THE WORK AREA AND THE EDGE OF THE RAMP PAVEMENT IS 9 FEET OR MORE. WHEN THE CLEARANCE IS LESS THAN 9 FEET, THE TRAFFIC CONTROL ON "LANE CLOSURE AT ENTRANCE RAMP: PLAN B" SHOULD BE USED, OR THE RAMP SHOULD BE CLOSED, OR ALLOWING RAMP TRAFFIC TO USE THE BERM SHOULD BE CONSIDERED PROVIDED THE OPERATION IS "SHORT" IN DURATION. WHEN THE RAMP IS CLOSED, APPROPRIATE DETOUR SIGNS SHALL BE PROVIDED.**

2. THIRTEEN (13) DRUMS OR BARRICADES SHALL BE USED TO FORM THE LANE TRANSITION TAPER IN ADVANCE OF THE WORK AREA. FIVE (5) CHANNELIZING DEVICES SHALL BE USED TO FORM THE TAPER ON THE SHOULDER. CONES, DRUMS, OR BARRICADES SHALL BE SPACED AT 50 FOOT CENTERS. CONES MAY BE SUBSTITUTED FOR BARRICADES OR **DRUMS FOR** THE LANE CLOSURES DURING DAYLIGHT HOURS ONLY.

3. RAMP SIGNS SHALL BE DUAL MOUNTED ON MULTILANE RAMPS.

4. THE FLASHING OR SEQUENCING ARROW PANEL SHALL BE IN ACCORDANCE WITH OMUTCD, SECTION 7G-8.

5. THE WORK TRUCK SHOWN AT THE BEGINNING OF THE WORK AREA SHALL BE IN PLACE AND UNOCCUPIED WHENEVER MEN ARE WORKING WITHIN THE WORK AREA. THIS TRUCK SHALL BE MOVED FROM THE PAVEMENT WHENEVER WORKMAN ARE NOT IN THE WORK AREA. OTHER PROTECTIVE DEVICES MAY BE USED IN LIEU OF WORK TRUCK SHOWN WHEN APPROVED BY THE ENGINEER. A TRUCK MOUNTED IMPACT ATTENUATOR MAY BE EMPLOYED.

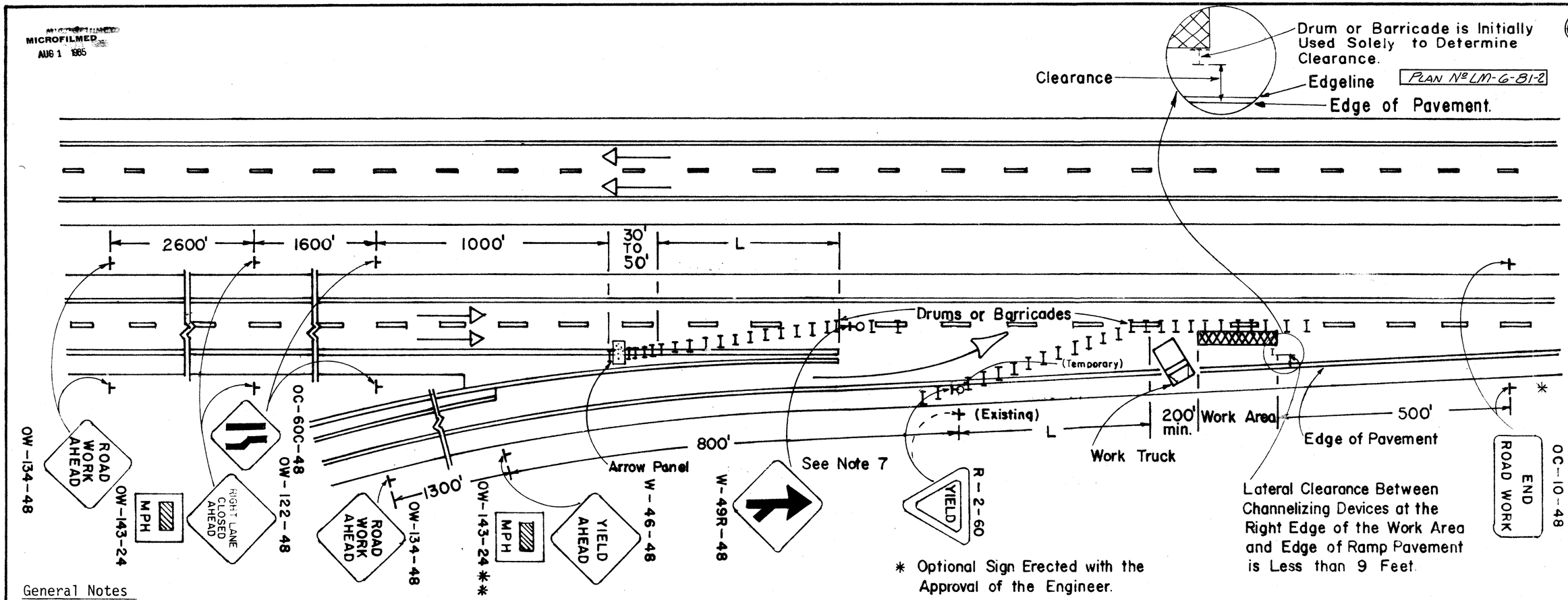
6. TYPE C STEADY BURNING BARRICADE WARNING LIGHTS SHALL BE ERECTED ON DRUMS OR BARRICADES FOR NIGHT LANE CLOSURES. MAXIMUM SPACING SHALL BE 50' CENTER TO CENTER IN ADVANCE OF THE WORK AREA AND 200' CENTER TO CENTER WITHIN THE LIMITS OF THE WORK AREA.

7. TAPER FORMULA SHALL BE IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, SECTION 7F-17.

8. THE SPACINGS BETWEEN CONSTRUCTION AND MAINTENANCE SIGNS SHOWN ON THIS DETAIL MAY REQUIRE ADJUSTMENTS (INCREASES OR DECREASES) TO ASSURE THAT THEY ARE POSITIONED NO CLOSER TNAN 200 FEET TO EXISTING SIGNS AS DETERMINED BY THE ENGINEER.

OHIO DEPARTMENT OF TRANSPORTATION

LANE CLOSURE AT ENTRANCE RAMP: PLAN A	DATE 8-3-79



* Optional Sign Erected with the Approval of the Engineer.

General Notes

1. This work area traffic control application shall be employed when the lateral clearance between channelizing devices at the right edge of the work area and the edge of the ramp pavement is less than 9 feet. When the clearance is more than 9 feet, the traffic control on "Lane Closure at Entrance Ramp: Plan A" should be used, or the ramp should be closed. When the ramp is closed, appropriate detour signs shall be provided.

2. Thirteen (13) drums or barricades shall be used to form the lane transition taper in advance of the work area. Five (5) channelizing devices shall be used to form the taper on the shoulder. Cones, drums, or barricades shall be spaced at 50 foot centers. Cones may be substituted for barricades or drums for the lane closures during daylight hours only.

3. Ramp signs shall be dual mounted on multi-lane ramps. When the ramp is not long enough to allow placement as specified above, the signs may be spaced proportionately within the space available as determined by the Engineer (a 200' minimum spacing must be maintained).

4. The flashing or sequencing arrow panel shall be in accordance with OMUTCD, Section 7G-8.

5. The work truck shown at the beginning of the work area shall be in place and unoccupied whenever men are working within the work area. This truck shall be moved from the pavement whenever workmen are not in the work area. Other protective devices may be used in lieu of work truck shown when approved by the Engineer.

6. Type C steady burning barricade warning lights shall be erected on drums or barricades for night lane closures. Maximum spacing shall be 50' center to center in advance of the work area and 200' center to center within the limits of the work area.

7. It may be necessary to move the location of an existing Yield condition In these cases, the permanent R-2 sign installation shall be covered and the temporary installation shall be mounted upon a drive post which shall be banded to a drum with stainless steel strapping material or other techniques subject to the approval of the Engineer.

8. TAPER FORMULA SHALL BE IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, SECTION 7F-17.

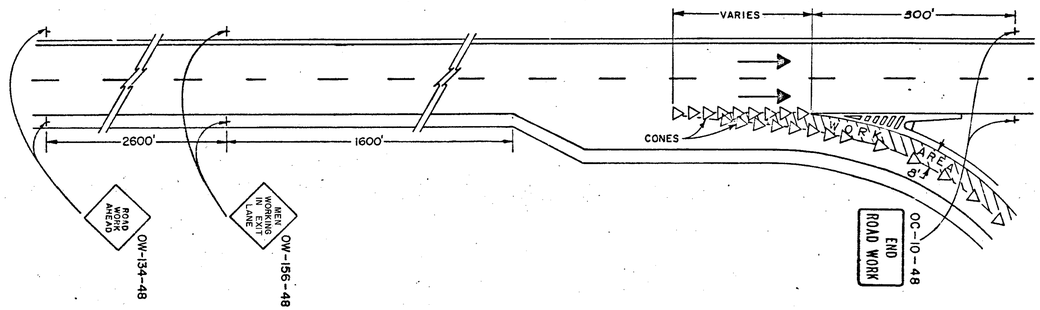
9. THE SPACINGS BETWEEN CONSTRUCTION AND MAINTENANCE SIGNS SHOWN ON THIS DETAIL MAY REQUIRE ADJUSTMENTS (INCREASES OR DECREASES) TO ASSURE THAT THEY ARE POSITIONED NO CLOSER THAN 200 FEET TO EXISTING SIGNS AS DETERMINED BY THE ENGINEER.

OHIO DEPARTMENT OF TRANSPORTATION

LANE CLOSURE AT ENTRANCE RAMP PLAN B	DATE 8-3-79

CALC. BY		OHIO	50
DATE		FHWA REGION 5	51
CHKD. BY			
DATE			

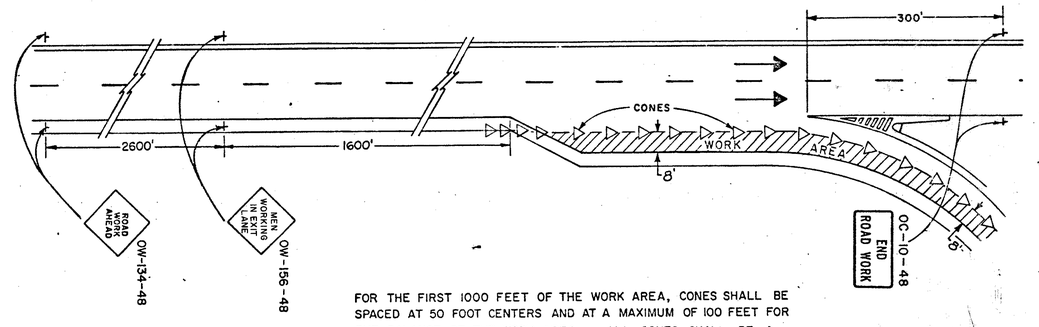
PLAN Nº LM-6-81-2



FOR THE FIRST 1000 FEET OF THE WORK AREA, CONES SHALL BE SPACED AT 50 FOOT CENTERS AND AT A MAXIMUM OF 100 FEET FOR THE BALANCE OF THE WORK AREA. ALL CONES SHALL BE A MINIMUM OF 36 INCHES IN HEIGHT.

RAMP TRAFFIC SHALL BE MAINTAINED AT ALL TIMES.

TYPICAL LANE CLOSURE IN RAMP – FOR CLOSING OUTSIDE PORTION OF CURVE



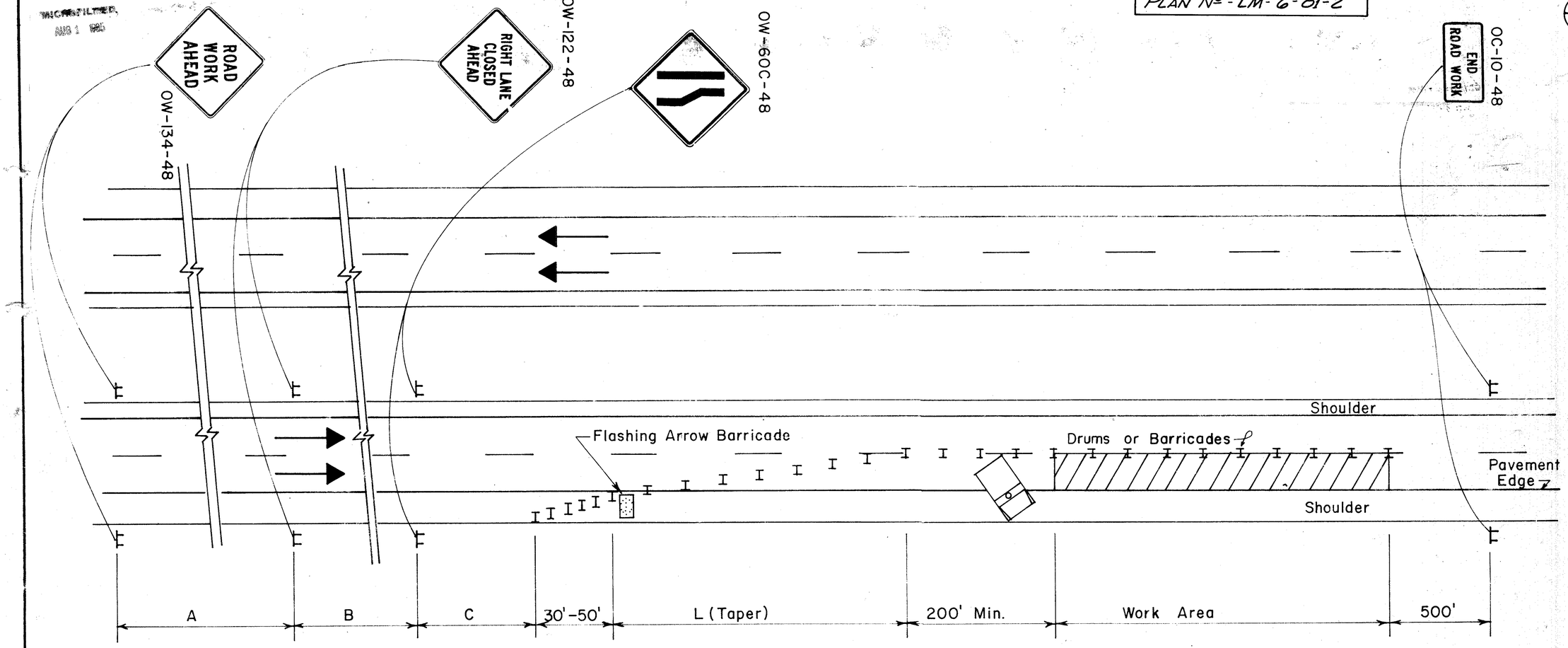
FOR THE FIRST 1000 FEET OF THE WORK AREA, CONES SHALL BE SPACED AT 50 FOOT CENTERS AND AT A MAXIMUM OF 100 FEET FOR THE BALANCE OF THE WORK AREA. ALL CONES SHALL BE A MINIMUM OF 36 INCHES IN HEIGHT.

RAMP TRAFFIC SHALL BE MAINTAINED AT ALL TIMES.

NOTE: SEE SHEET 45 WHEN THE WORK CANNOT BE CONFINED TO 8' FROM EDGE OF PAVEMENT.

TYPICAL LANE CLOSURE IN DECELERATION LANE AND RAMP – FOR CLOSING INSIDE PORTION OF CURVE

PLAN Nº - LM - 6 - 81 - 2



GENERAL NOTES

1. THIRTEEN (13) DRUMS OR BARRICADES SHALL BE USED TO FORM THE LANE TRANSITION TAPER IN ADVANCE OF THE WORK AREA. FIVE (5) CHANNELIZING DEVICES SHALL BE USED TO FORM THE TAPER ON THE SHOULDER. CONES, DRUMS, OR BARRICADES SHALL BE SPACED AT 50 FOOT CENTERS FOR THE FIRST 1000 FEET OF THE WORK AREA AND AT A MAXIMUM OF 100 FEET FOR THE BALANCE OF THE WORK AREA. CONES MAY BE SUBSTITUTED FOR THE BARRICADES OR STEEL DRUMS FOR THE LANE CLOSURES DURING DAYLIGHT HOURS ONLY.

2. WHEN WORK IS BEING PERFORMED IN THE LANE ADJACENT TO THE MEDIAN ON A DIVIDED HIGHWAY, "OW-123-48" SIGNS SHALL BE SUBSTITUTED FOR "OW-122-48" SIGNS AND THE OW-60D SIGNS SHALL BE SUBSTITUTED FOR THE OW-60C SIGNS.

3. THE WORK TRUCK SHOWN AT THE BEGINNING OF THE WORK AREA SHALL BE IN PLACE AND UNOCCUPIED WHENEVER MEN ARE WORKING WITHIN THE WORK AREA. THIS TRUCK SHALL BE MOVED FROM THE PAVEMENT WHENEVER WORKMEN ARE NOT IN THE WORK AREA. OTHER PROTECTIVE DEVICES MAY BE USED IN LIEU OF THE WORK TRUCK SHOWN WHEN APPROVED BY THE ENGINEER.

~~4. THE FLASHING ARROW BARRICADE SHALL BE IN ACCORDANCE WITH APPLICATION STANDARD DRAWING 7D-1.~~

5. TYPE C STEADY BURNING BARRICADE WARNING LIGHTS SHALL BE ERECTED ON DRUMS OR BARRICADES FOR NIGHT LANE CLOSURES. MAXIMUM SPACING SHALL BE 50' CENTER TO CENTER IN ADVANCE OF THE WORK AREA AND 200' CENTER TO CENTER WITHIN THE LIMITS OF THE WORK AREA.

DISTANCE	A	B	C	L
URBAN	200	200	200	540
MAJOR STANDARD	500	500	500	660
FREEWAY AND EXPRESSWAY	2600	1600	1000	660

OHIO DEPARTMENT OF TRANSPORTATION

CLOSING ONE LANE OF A FOUR LANE DIVIDED HIGHWAY

DATE 4/77

DR. GRD CK. RLB.