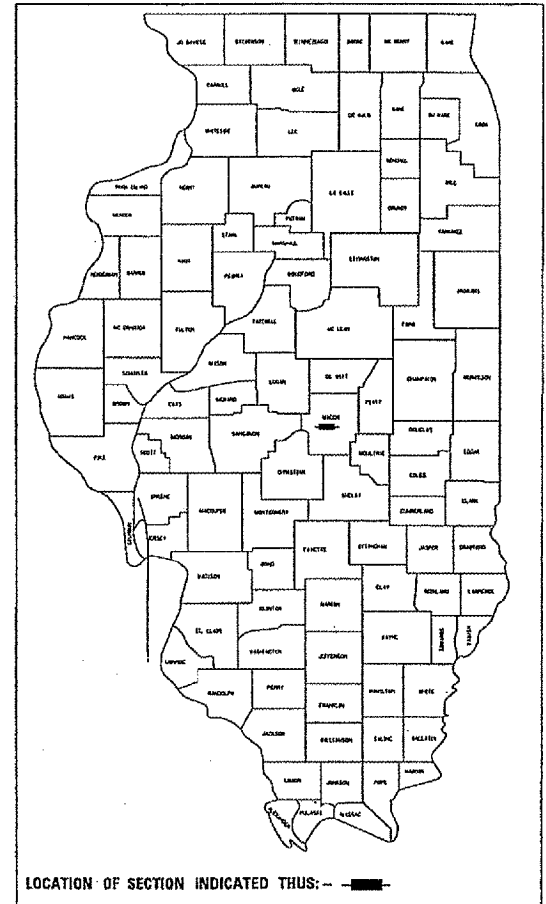


FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322		MACON	10	1

* D-5 CONTRACT MAINT 2005-6
 CONTRACT NO. 70445
 D-95-085-04

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
HIGHWAY IMPROVEMENT
F.A.P. ROUTE 322 (US 51)
SECTION D-5 CONTRACT MAINT 2005-6
MACON COUNTY
RAMP REPAIR

FOR INDEX OF SHEETS, SEE SHEET NO. 2
 FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4

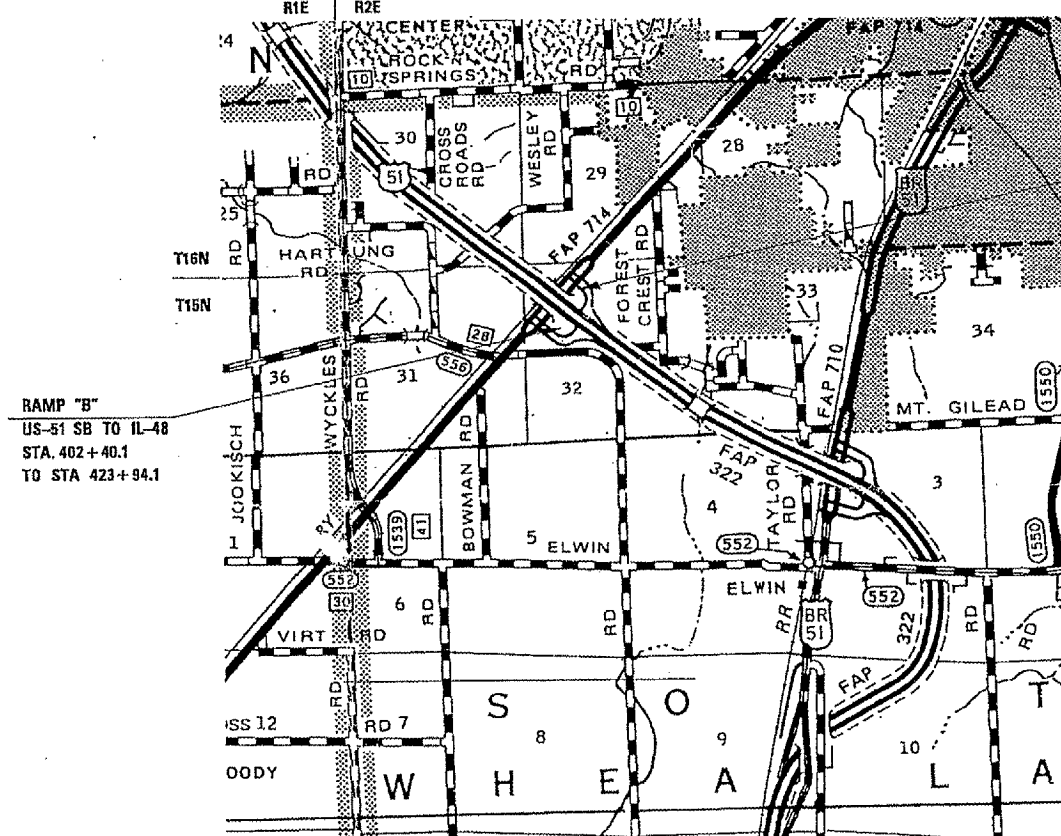


PROJECT ENGINEER: KENSIL GARNETT

PROJECT ENGINEER: KENSIL GARNETT

SQUAD LEADER: CORY SHEEHY

C-95-091-04



RAMP "C"
 IL-48 TO US-51 NB
 STA. 501+38.5
 TO STA 515+53.2

RAMP "B"
 US-51 SB TO IL-48
 STA. 402+40.1
 TO STA 423+94.1

LEG	ADT (2004)
ADT: US-51 SB	4650
ADT: US-51 NB	5100
ADT: RAMP "B"	900
ADT: RAMP "C"	850

FUNCTIONAL CLASSIFICATION:
 FREEWAY / OTHER PRINCIPAL ARTERIAL

DESIGN DESIGNATION
RESURFACING

70445

RAMP "B" LENGTH = 2154.0 FEET RAMP "C" LENGTH = 1416.7 FEET
 TOTAL LENGTH OF SECTION & PROJECT = 3570.7 FEET = 0.676 MILES
 NET LENGTH OF SECTION & PROJECT = 3570.7 FEET = 0.676 MILES

F.A.P. ROUTE 322 SECTION: D-5 CONTRACT MAINT 2005-6 MACON COUNTY

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED *March 25, 2005*
Mike Hene
 DEPUTY DIRECTOR OF HIGHWAYS, REGION 3 ENGINEER

March 25, 2005
Victor Mader
 ENGINEER OF DESIGN AND ENVIRONMENT
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

FOR UNDERGROUND UTILITY
 LOCATIONS CALL
 TOLL FREE J.U.L.I.E. TELEPHONE NO.
 1-800-892-0123
 SOUTH WHEATLAND TOWNSHIP

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	*	MACON	10	2

CONTRACT NO. 70445
*D-5 CONTRACT MAINT 2005-6

INDEX OF SHEETS

<u>PAGE NO.</u>	<u>DESCRIPTION</u>
1	Cover Sheet
2	Index Of Sheets, Highway Standards
3	General Notes
4	Summary Of Quantities
5	Existing/Proposed Typical Cross Sections
6	Plan Sheet For US-51 and IL-48 Interchange
7	Ramp "B" Closure Detail
8	Ramp "C" Closure Detail
9	Typical Application Of Pavement Markings
10	Typical Application Of Traffic Control Devices For Ramp Closure

HIGHWAY STANDARDS

701101-01	Off Road Operations, Multilane 15' to 24" Form Edge of Pavement
701400-02	Approach to Lane Closure, Freeway/Expressway
701406-04	Lane Closure, Freeway/ Expressway, Day Operations Only
701426-02	Lane Closure Multilane, Intermittent Or Moving Operations, For Speeds Greater Than 45mph
702001-05	Traffic Control Devices
780001-01	Typical Pavement Markings
781001-02	Typical Applications Raised Reflective Pavement Markers
000001-04	Standards Symbols, Abbreviations, And Patterns
001006	Decimal Of An Inch And Of A Foot

GENERAL NOTES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	.	MACON	10	3

CONTRACT NO. 70445
 *D-5 CONTRACT MAINT 2005-6

G. N. -100

ENGLISH UNITS OF MEASUREMENT SHALL GOVERN OVER AND SUPERSEDE ANY METRIC UNITS SHOWN IN THIS CONTRACT. WHERE INCLUDED, METRIC UNITS ARE FOR INFORMATION ONLY.

GN 406H

MIXTURE REQUIREMENTS

The following mixture requirements are applicable for this project:

Location(s):	Ramps
Mixture Use(s):	Surface
AC/PG:	SBS PG 64-22
RAP %: (Max)**	10%
Design Air Voids:	4.0 @ Ndes = 70
Mixture Composition: IL - (Gradation Mixture)	9.5
Friction Aggregate:	C

G. N. -482

ALL MATERIAL PLACED AS BITUMINOUS SHOULDERS SUPERPAVE SHALL BE COMPACTED TO 94.0-98.4 PERCENT OF THE MAXIMUM THEORETICAL DENSITY. THIS REQUIREMENT SHALL APPLY TO BOTH B.A.M. AND IL 9.5L GRADATION SHOULDER MIXES. THIS MAXIMUM DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE OF FOUR TESTS AS IN OTHER QC/QA TESTING. A NUCLEAR GAUGE DENSITY/CORE CORRELATION SHALL BE PERFORMED FOR BOTH THE B.A.M. AND IL 9.5L MIXES USING STANDARD CORRELATION PROCEDURES.

G. N. -703A

SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE PAVEMENT AFTER ANY OF THE FOLLOWING: COLD MILLING AND/OR PLACING BITUMINOUS MATERIALS (PRIME COAT), LEVELING BINDER (MACHINE METHOD), BINDER AND SURFACE COURSES. SHORT TERM PAVEMENT MARKING PLACED ON THE SURFACE, SHALL COINCIDE WITH THE FINAL PAVEMENT STRIPING. SHORT TERM PAVEMENT MARKING PLACED PRIOR TO THE SURFACE SHALL COINCIDE WITH THE EXISTING PAVEMENT MARKINGS. USE 4 FEET PER 40 FEET (OR 10% PER STATION).

G. N. -781

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH STANDARD 781001, AND THE DETAILS SHOWN IN THE PLANS. IF THERE IS ANY DISCREPANCY BETWEEN THE STANDARD AND THE DETAILS IN THE PLANS, THE DETAILS IN THE PLANS SHALL GOVERN. THE FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING THE RAISED REFLECTIVE PAVEMENT MARKERS AND THE RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED MIDWAY IN THE 30 FOOT SPACE BETWEEN THE DASHED CENTERLINE STRIPES (WHEN APPLICABLE).

G. N. -1004.03

REVISE ARTICLE 1004.03 (c) NOTE 5/ OF THE STANDARD SPECIFICATIONS TO READ:

' 5/ GRADATION CA-16 SHALL BE USED IN LIEU OF CA-13 WHEN THE SURFACE COURSE IS LESS THAN 1 3/4 INCHES IN THICKNESS. CA-13 OR CA-16 MAY BE USED WHEN THE SURFACE COURSE IS 1 3/4 INCHES OR MORE IN THICKNESS.'

SUMMARY OF QUANTITIES

F.A.P. R/E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	.	MACON	10	4

CONTRACT NO. 70445
*D-5 CONTRACT MAINT 2005-6

LOCATION OF WORK: US-51 & IL-48 RAMPS

CONSTRUCTION TYPE CODE: 100% STATE
1000
TOTAL
QUANTITY

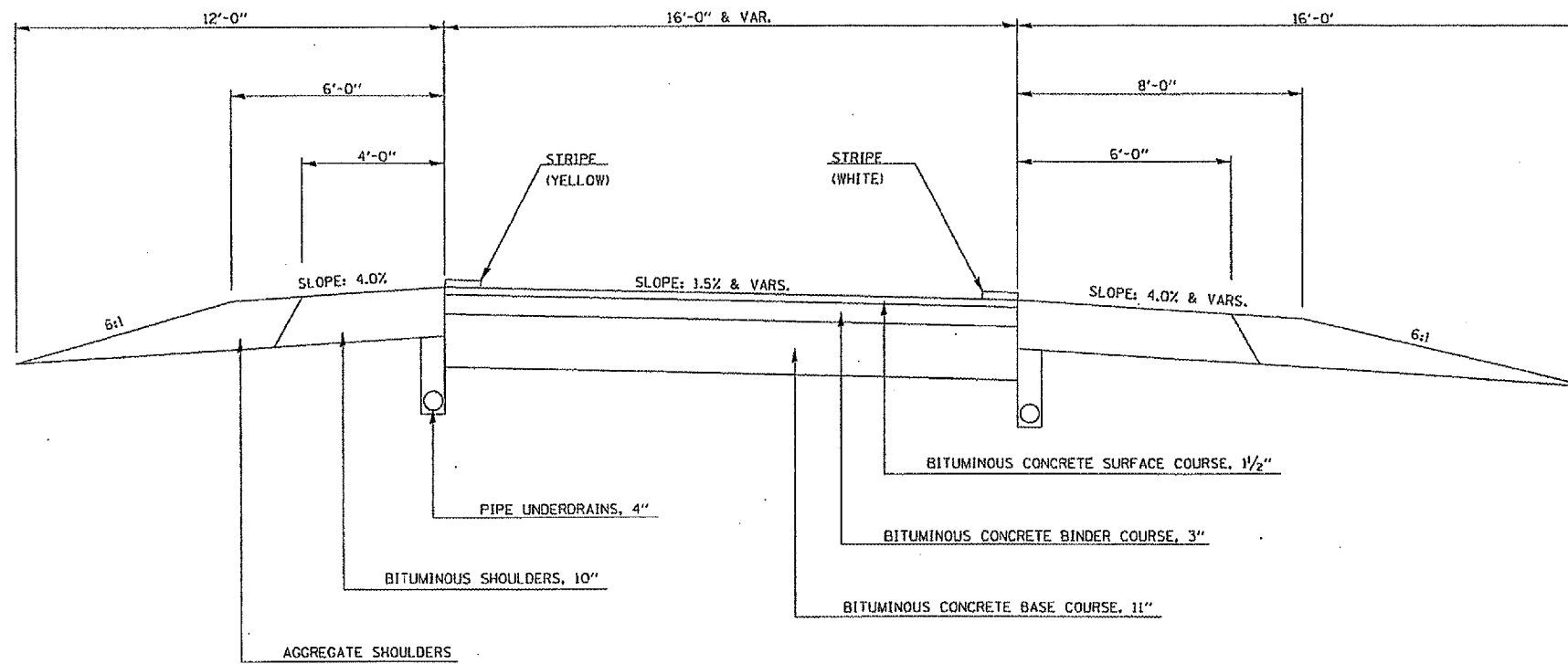
<u>CODE NO</u>	<u>ITEM</u>	<u>UNIT</u>	<u>QUANTITY</u>
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	635.0
40600300	AGGREGATE (PRIME COAT)	TON	12.7
40600990	TEMPORARY RAMP	SQ YD	107.0
44000006	BITUMINOUS SURFACE REMOVAL 1 1/2"	SQ YD	6,348.0
67100100	MOBILIZATION	L SUM	1.0
70100305	TRAFFIC CONTROL AND PROTECTION, STANDARD 701400	LSUM	1.0
70100700	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406	L SUM	1.0
70101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1.0
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	287.0
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	95.0
*78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	14,285.0
*78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	40.0
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	40.0
X4066416	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N70	TON	533.0
X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	83.0
*SPECIALTY ITEMS			

F.A.P. RYE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322		MACON	10	5

D-5 CONTRACT MAINT 2005-6
CONTRACT NO. 70445

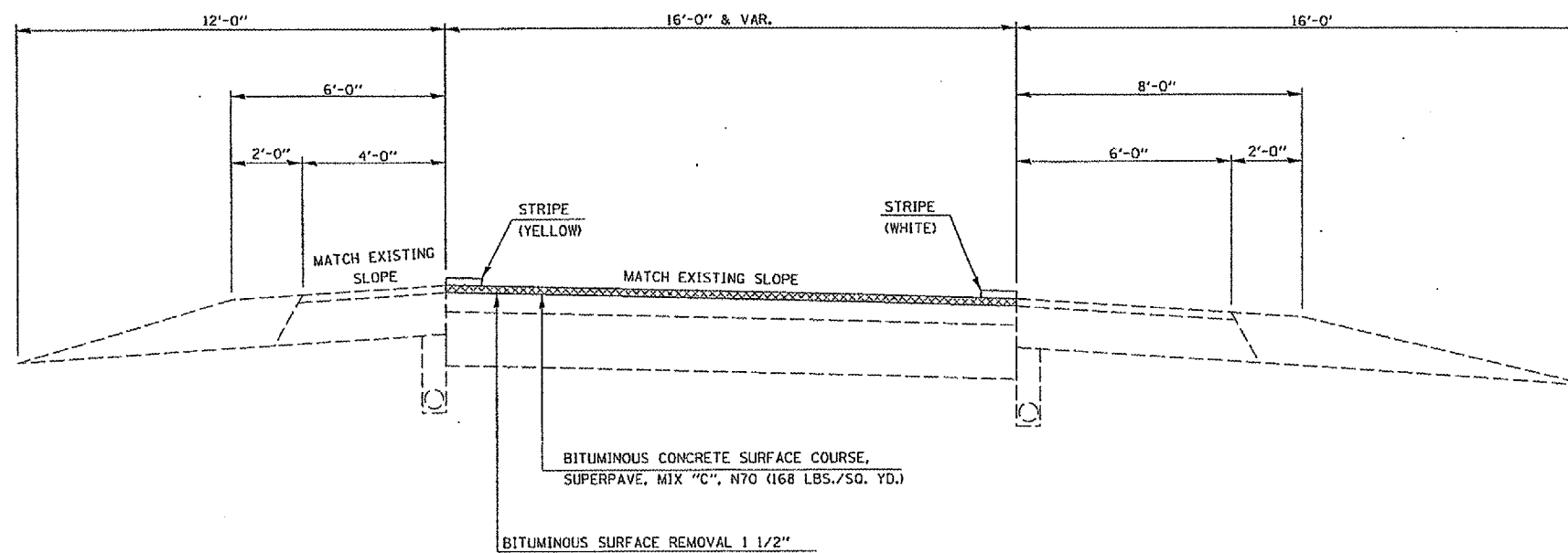
EXISTING RAMP TYPICAL SECTION

RAMP "B" STA. 402+40.1 TO STA. 423+94.1
RAMP "C" STA. 501+38.5 TO STA. 515+55.2



PROPOSED RAMP TYPICAL SECTION ①

RAMP "B" STA. 402+40.1 TO STA. 423+94.1
RAMP "C" STA. 501+38.5 TO STA. 515+55.2



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
322	-	MACON	10	6

CONTRACT NO. 70445
D-5 CONTRACT MAINT 2005-6

EXIST. CURVE RAI
PI STA. = 521+88
 $\Delta = 160^\circ 55' 13''$
 $D = 19^\circ 05' 55''$
 $R = 300.00'$
 $T = 1,785.10'$
 $L = 842.58'$
 $E = 1,510.14'$
 $e = \dots$
T.R. = \dots
S.E. RUN = \dots
P.C. STA. = 504+03.76
P.T. STA. = 512+46.34

$R = 760.00'$
 $T = 362.78'$
 $L = 676.94'$
 $E = 82.15'$
 $e = \dots$
T.R. = \dots
S.E. RUN = \dots
P.C. STA. = 6'
P.T. STA. = 6'

EXIST. CURVE RAMP2/
PI STA. = 318+93.04
 $\Delta = 55^\circ 17' 09''$ (RT)
 $D = 7^\circ 32' 20''$
 $R = 760.00'$
 $T = 398.04'$
 $L = 733.34'$
 $E = 97.93'$
 $e = \dots$
T.R. = \dots
S.E. RUN = \dots
P.C. STA. = 314+95.0'
P.T. STA. = 322+28.3

EXIST. CURVE RAMP2B-2
PI STA. = 409+54.12
 $\Delta = 27^\circ 08' 25''$ (RT)
 $D = 15^\circ 04' 40''$
 $R = 380.00'$
 $T = 91.72'$
 $L = 180.00'$
 $E = 10.91'$
 $e = \dots$
T.R. = \dots
S.E. RUN = \dots
P.C. STA. = 408+62.40
P.T. STA. = 410+42.40

EXIST. CURVE RAMP2B-1

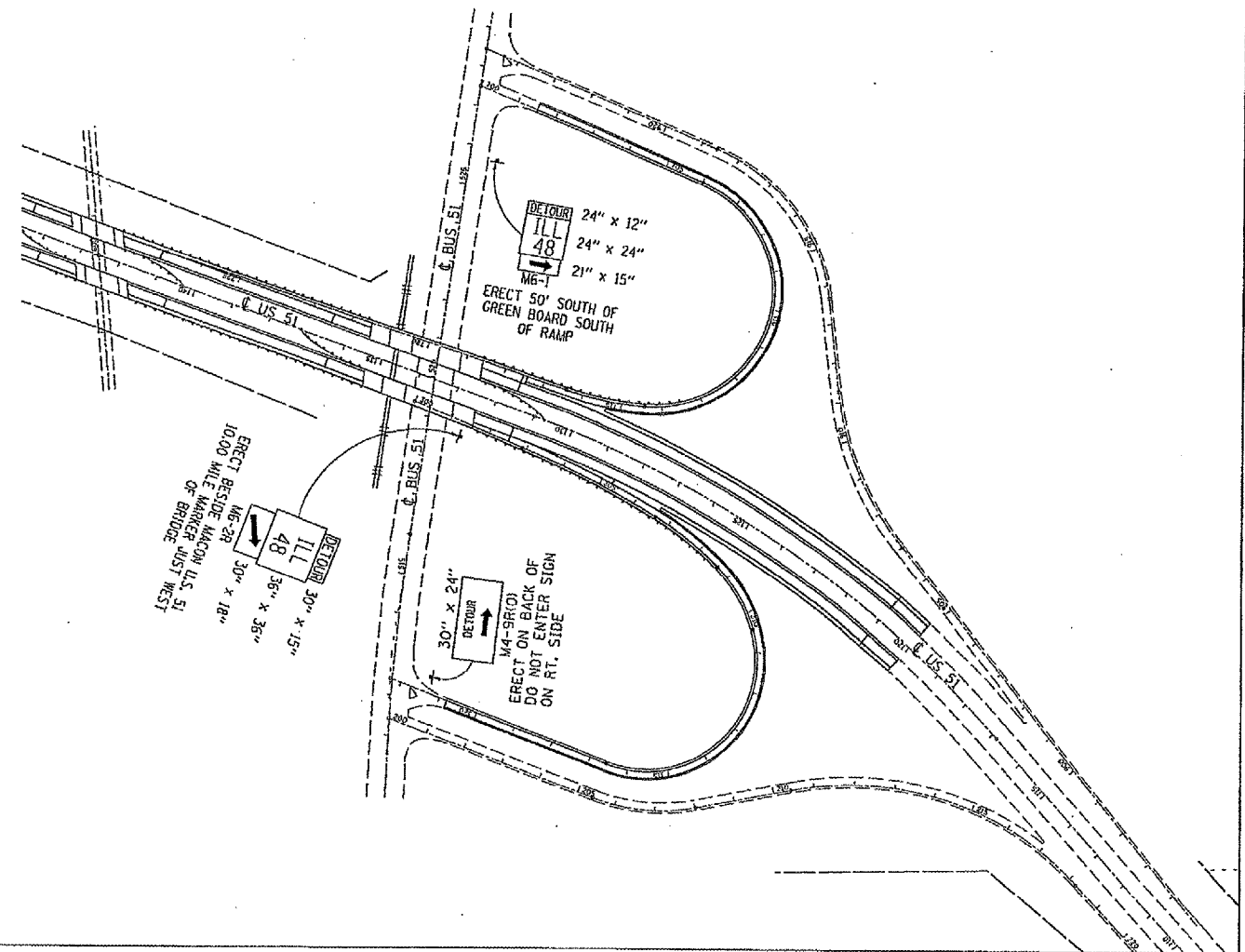
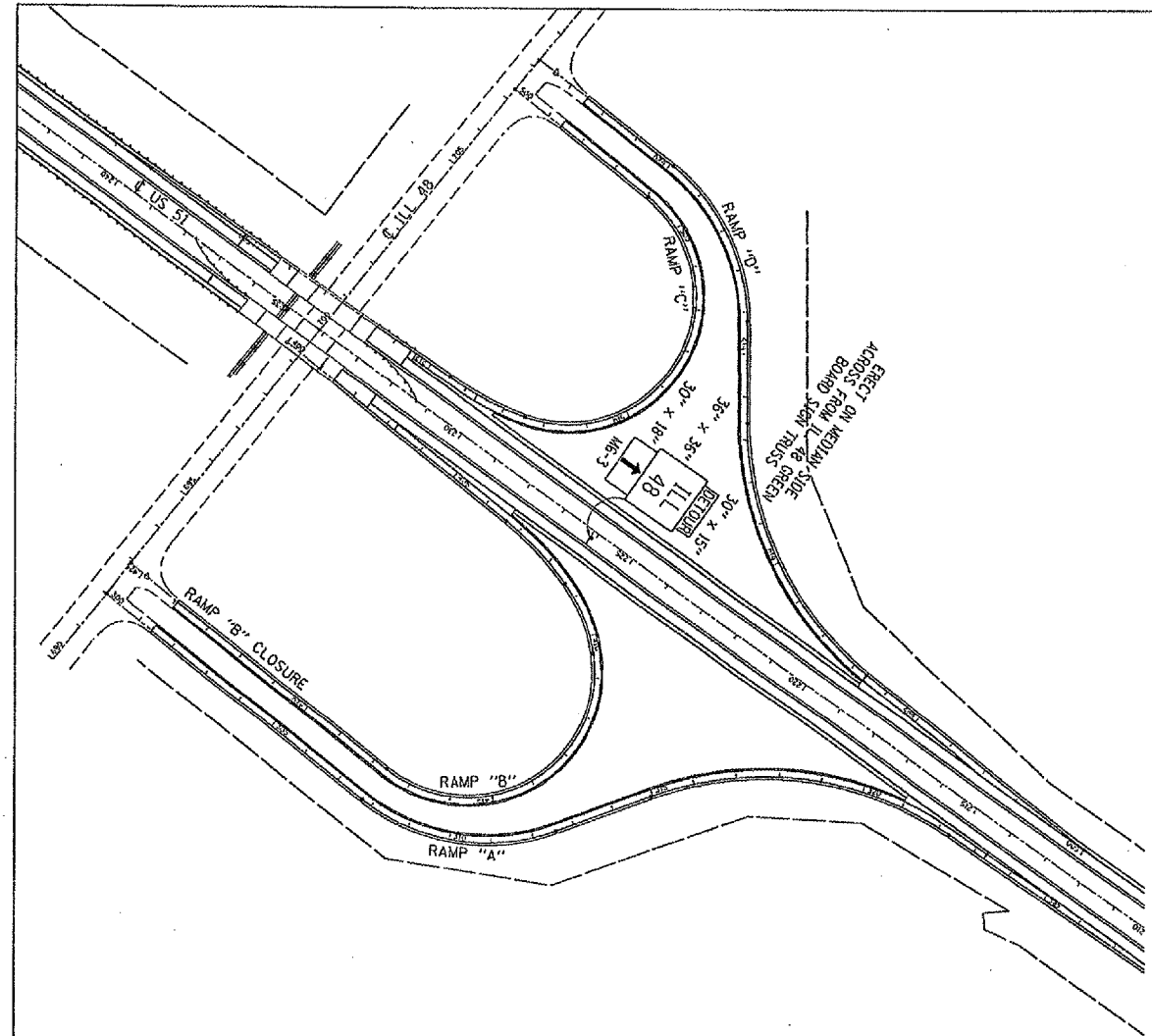


RAMP "B" CLOSURE DETAIL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	*	MACON	10	7

CONTRACT NO. 70445
1"=200'

0' 50' 100' 150' 200' 400' 600'

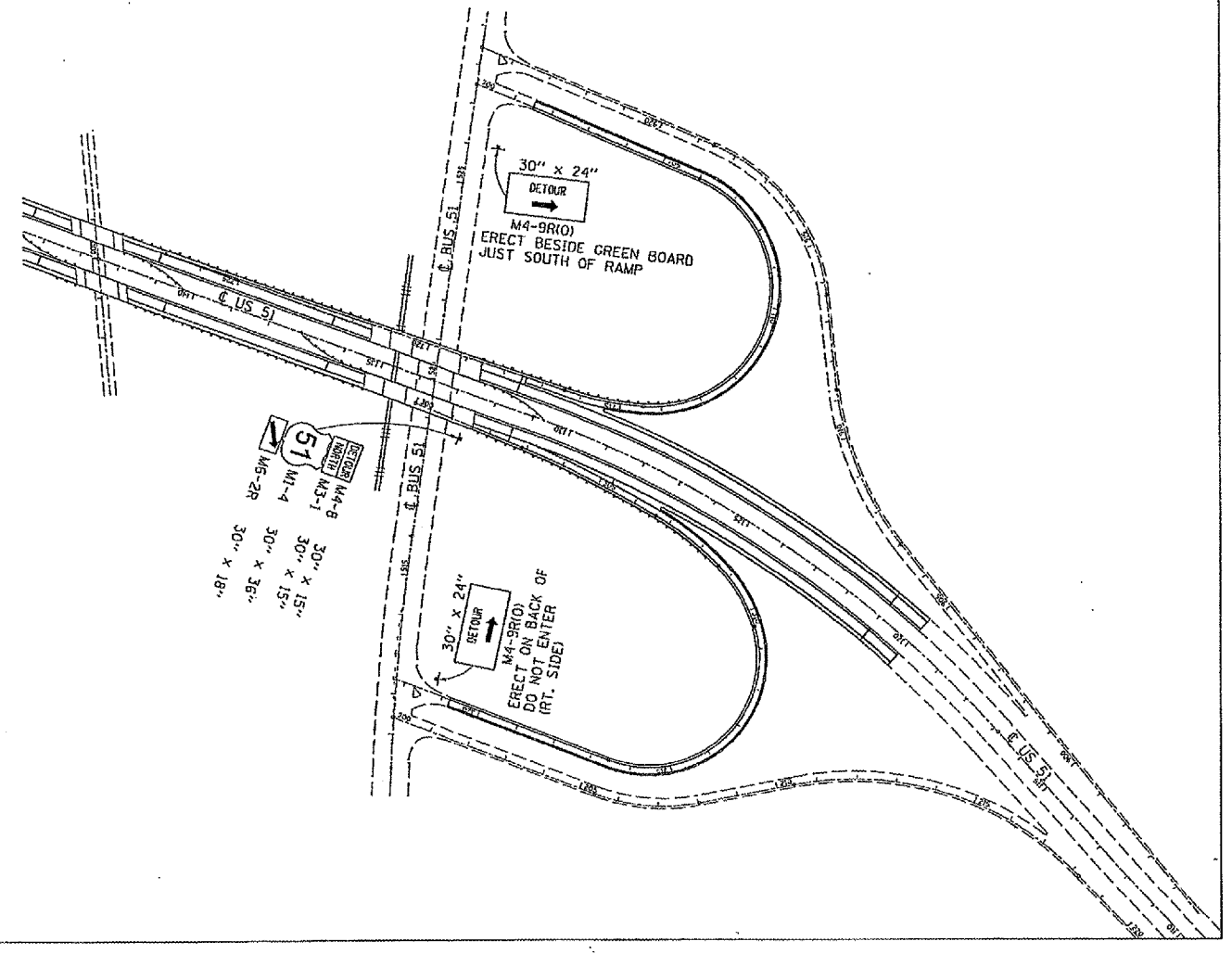
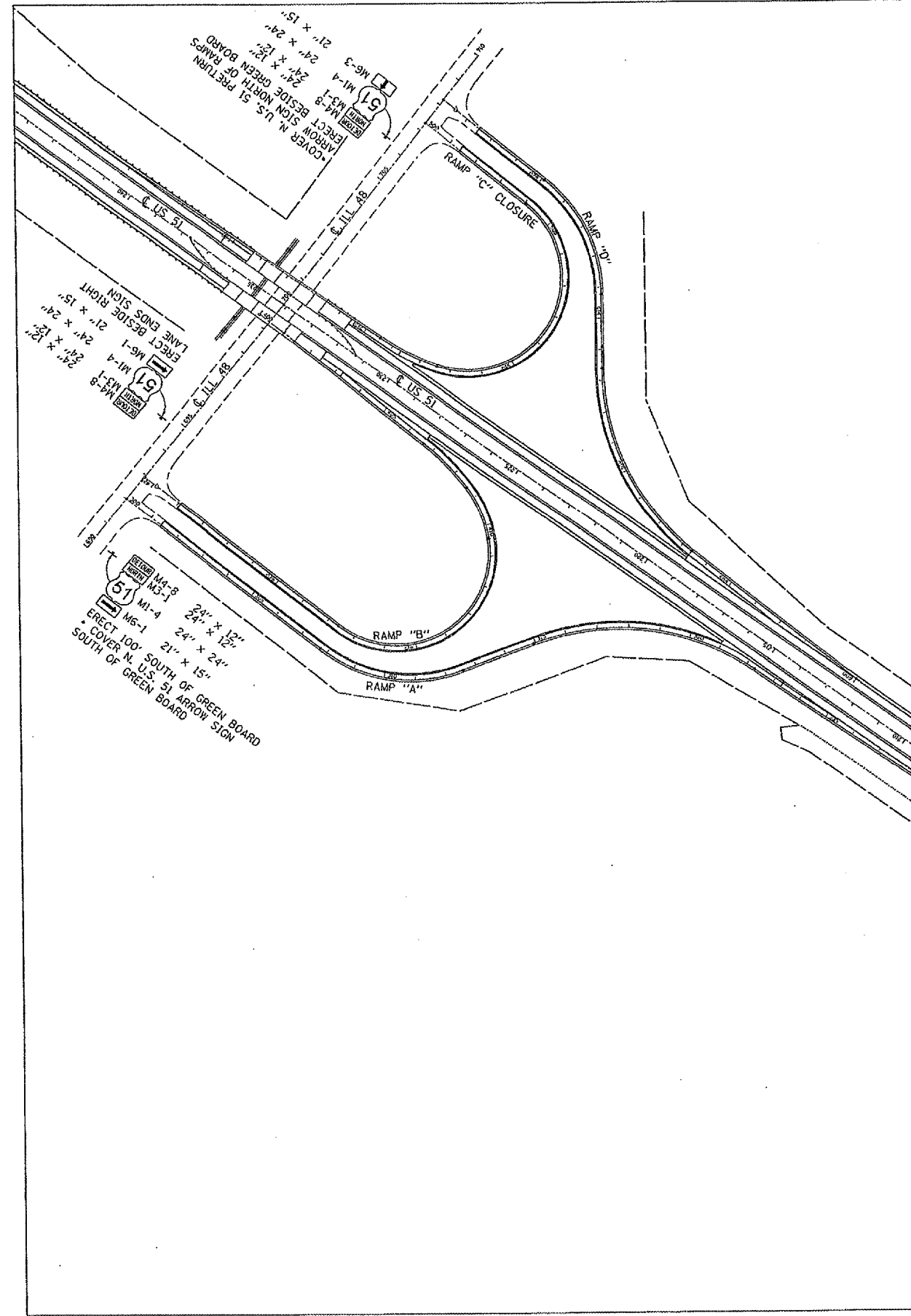
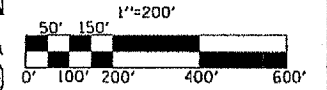


RAMP "C" CLOSURE DETAIL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332		MACON	10	8

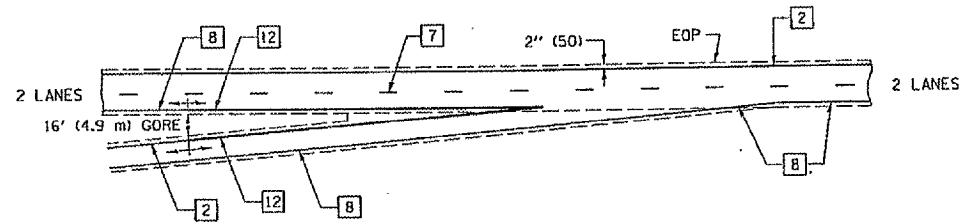
CONTRACT NO. 70445

1"=200'

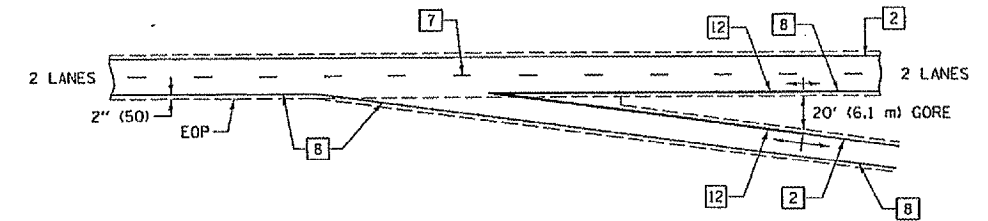


TYPICAL APPLICATION OF PAVEMENT MARKINGS FOR INTERSTATE AND MULTI-LANE DIVIDED HIGHWAYS

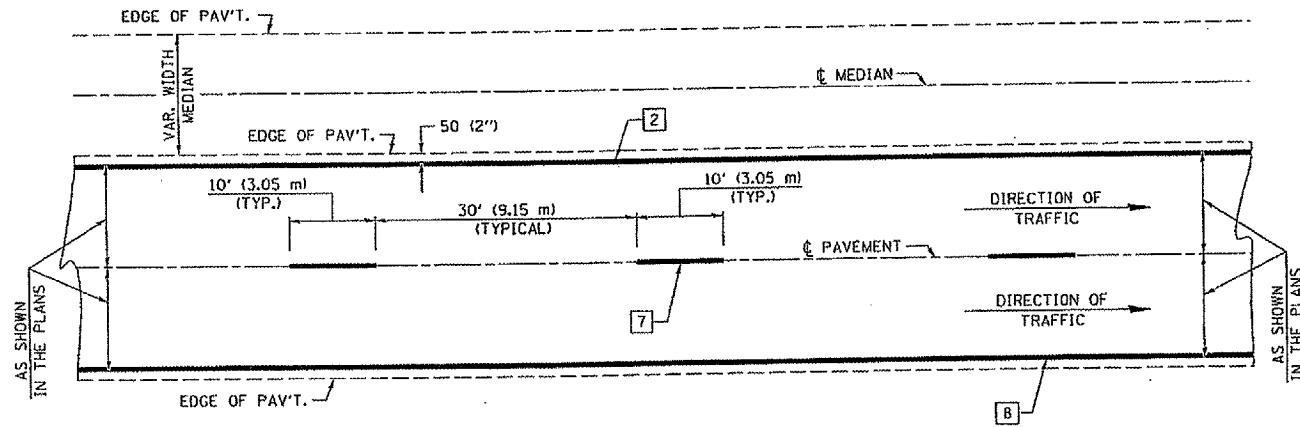
TYPICAL ENTRANCE RAMP TERMINAL



TYPICAL EXIT RAMP TERMINAL



CENTERLINE INTERSTATE OR MULTI-LANE TWO WAY DIVIDED HIGHWAY



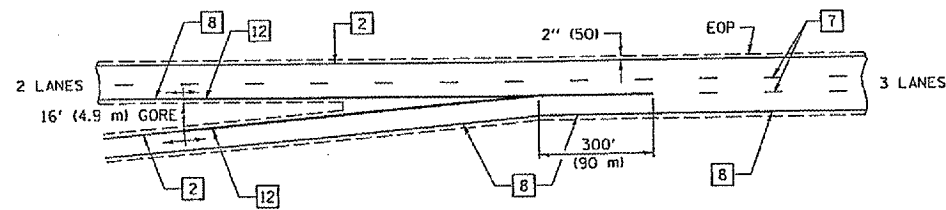
NOTE: PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.

NOTE: SEE ARTICLES 780.04 & 781.03 FOR LOCATION OF STRIPES AND MARKERS RELATIVE TO EDGES OR JOINTS.
FOR RAISED REFLECTIVE PAVEMENT MARKERS, REFER TO STANDARD 781001.

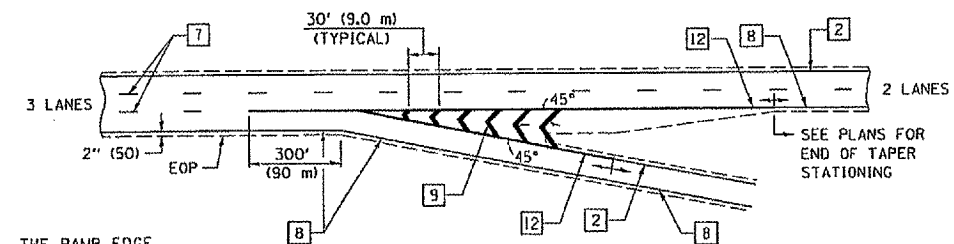
TYPICAL PAVEMENT MARKING LEGEND

- | | | |
|----|---------------------------------------|--|
| 1 | 4" (100) SKIP-DASH (YELLOW) | |
| 2 | 4" (100) SOLID (YELLOW) | |
| 3 | 12" (300) DIAGONAL (YELLOW) | |
| 4 | 4" (100) DOUBLE YELLOW (NARROW) | |
| 5 | 4" (100) DOUBLE YELLOW (WIDE) | |
| 6 | RESERVED | |
| 7 | 4" (100) SKIP-DASH (WHITE) | |
| 8 | 4" (100) SOLID (WHITE) | |
| 9 | 12" (300) DIAGONAL (WHITE) | |
| 10 | 6" (150) CROSS WALK (WHITE) | |
| 11 | 24" (600) STOP BAR (WHITE) | |
| 12 | 8" (200) SOLID (WHITE) | |
| 13 | 4" (100) LANE LINE EXTENSIONS (WHITE) | |
| 14 | RESERVED | |

ENTRANCE RAMP TERMINAL with EXCLUSIVE LANE



EXIT RAMP TERMINAL with EXCLUSIVE (auxiliary) LANE



WHEN RAMP ARE SURFACED, THE RAMP EDGE LINES SHALL BE AS SHOWN IN THE PLANS.

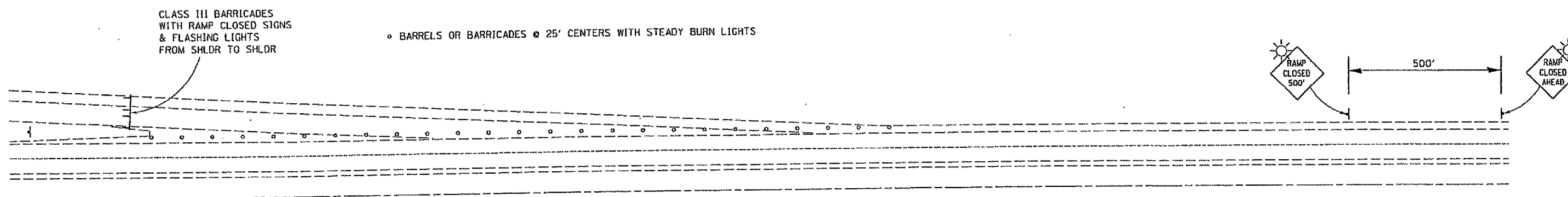
	NAME	DATE	REVISIONS	
			NAME	DATE
DESIGNED	P.E.E.	03/89		
CHECKED	C.T.O.	04/89	D.L.P.	08/97
CADD NO.	F-5.22		K.A.G.	08/04

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

F.A.P. RYE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
332	-	MACON	10	10

D-5 CONTRACT MAINT. 2005-6
 CONTRACT # 70445

TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR RAMP CLOSURE



NOTE: NOT TO SCALE

GENERAL NOTES

THE DETAILS SHOWN ON THIS SHEET ARE TO SUPPLEMENT TRAFFIC CONTROL AND PROTECTION (SPECIAL). THESE ITEMS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR TRAFFIC CONTROL & PROTECTION (SPECIAL).

CONTACT THE DISTRICT TRAFFIC OPERATIONS ENGINEER AT 217-465-4181, ONE WEEK PRIOR TO CLOSING THE RAMP.