

FA ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VARIOUS	D5	MACON	12	1

* D5 CRACK & JOINT SEAL 2006-2
D-95-015-06

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 7

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

VARIOUS ROUTES SECTION D5 CRACK & JOINT SEAL MACON COUNTY 2006-2

C-95-015-06

ROUT & SEAL CRACKS



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED 1/23/06

[Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION THREE ENGINEER

February 3, 2006
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

February 3, 2006
[Signature]
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123

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OF THE STATE OF ILLINOIS

FOR LOCATION MAPS, SEE SHEETS NO. 3-5

FOR TOTAL & NET LENGTHS, SEE SHEETS NO. 3-5

CURRENT ADT		
LOCATION #1	29,000	(2003)
LOCATION #2	18,600	(2003)
LOCATION #3	8,600	(2003)
LOCATION #4	9,600	(2003)

DESIGN DESIGNATION

N/A

CONTRACT NO. 70493

(217)465-4181

PROJECT ENGINEER: KENSIL A. GARNETT

SQUAD LEADER: CHRIS GREESON

DESIGNER: MATT BOWER

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	*	MACON	13	2

* D5 CRACK & JOINT SEAL 2006-2

INDEX OF SHEETS

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7	SUMMARY OF QUANTITIES
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13	TYPICAL DETAILS FOR CRACK SEALING FOR BITUMINOUS PAVEMENT

LIST OF STANDARDS

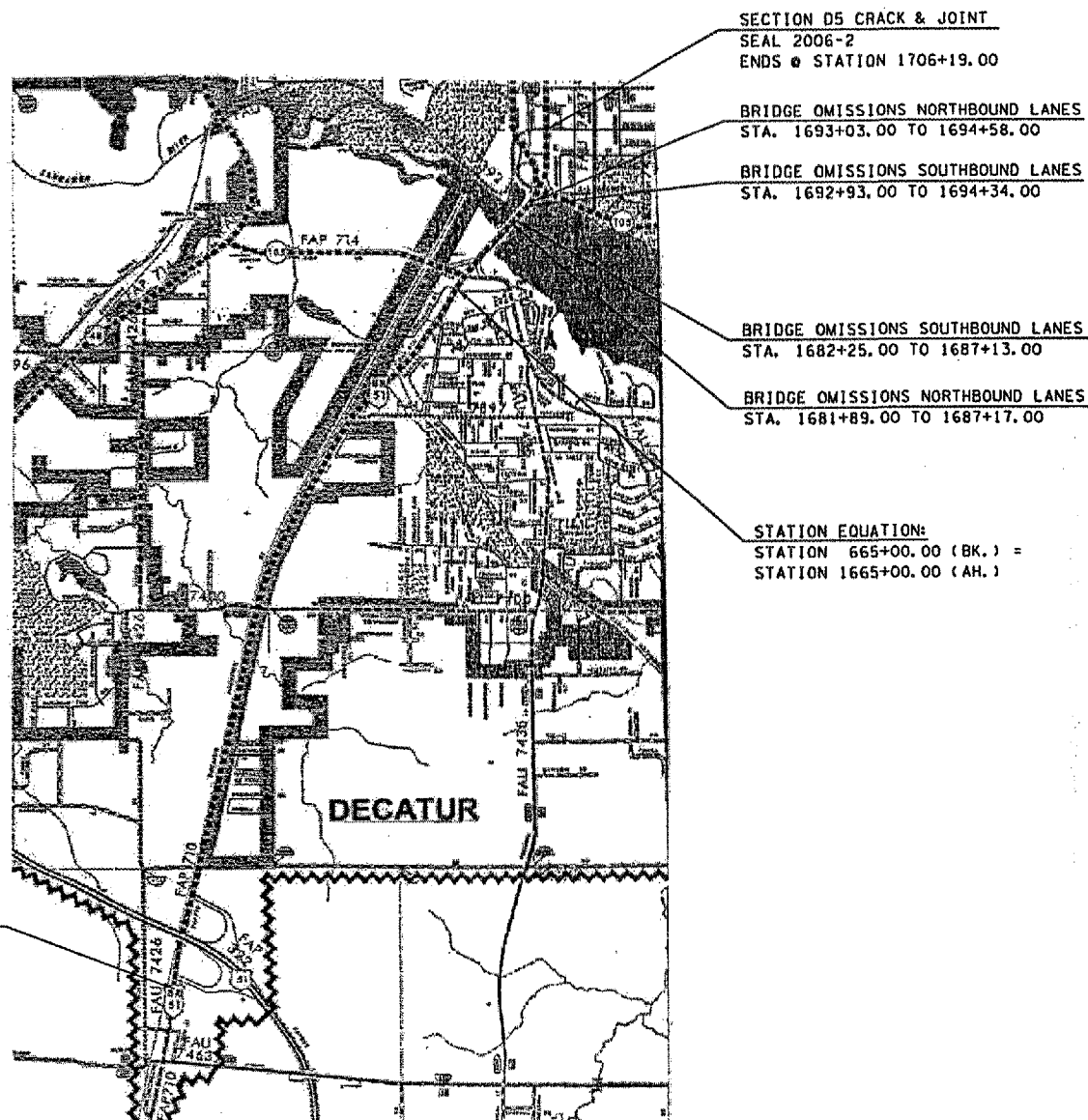
<u>STANDARD NUMBER</u>	<u>NAME OF STANDARD</u>
701411-03	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS \geq 45 MPH
701421-01	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS \geq 45 MPH TO MPH
701601-04	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-04	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
702001-05	TRAFFIC CONTROL DEVICES

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	"	MACON	13	3
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• D5 CRACK & JOINT SEAL 2006-2

LOCATION MAP #1

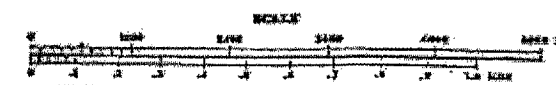
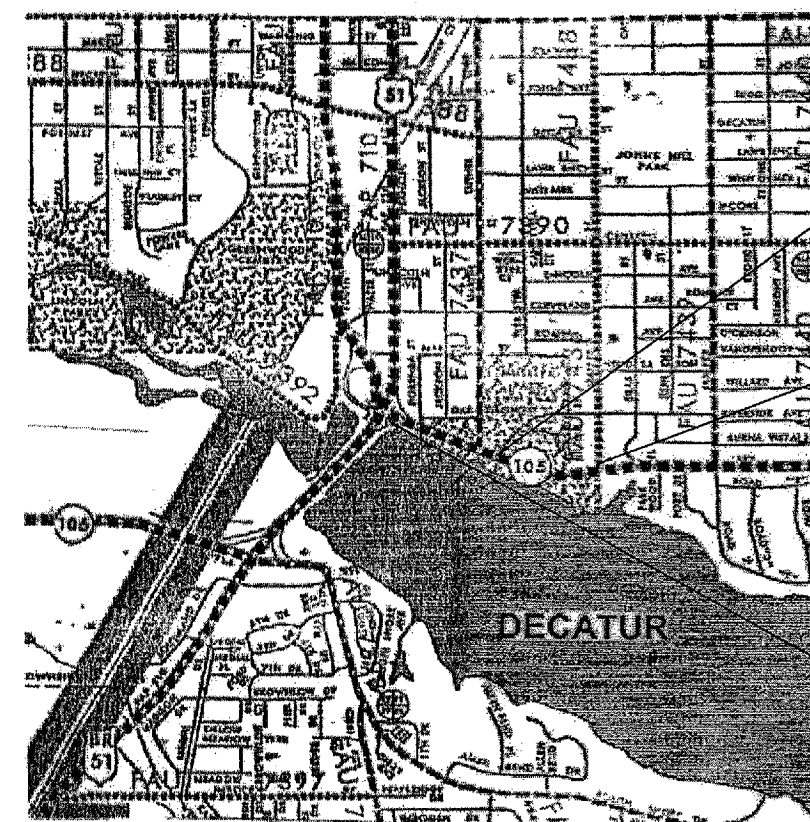
U.S. 51, FROM NORTH OF NORTH STREET TO CLEVELAND ST. MACON COUNTY/URBAN MULTILANE



TOTAL LENGTH OF SECTION = 19,747.00 FT. = 3.740 MILES
NET LENGTH OF SECTION = 19,064.00 FT. = 3.611 MILES

LOCATION MAP #2

IL 105, FROM U.S. 51 TO MAFFET ST. MACON COUNTY/URBAN MULTILANE

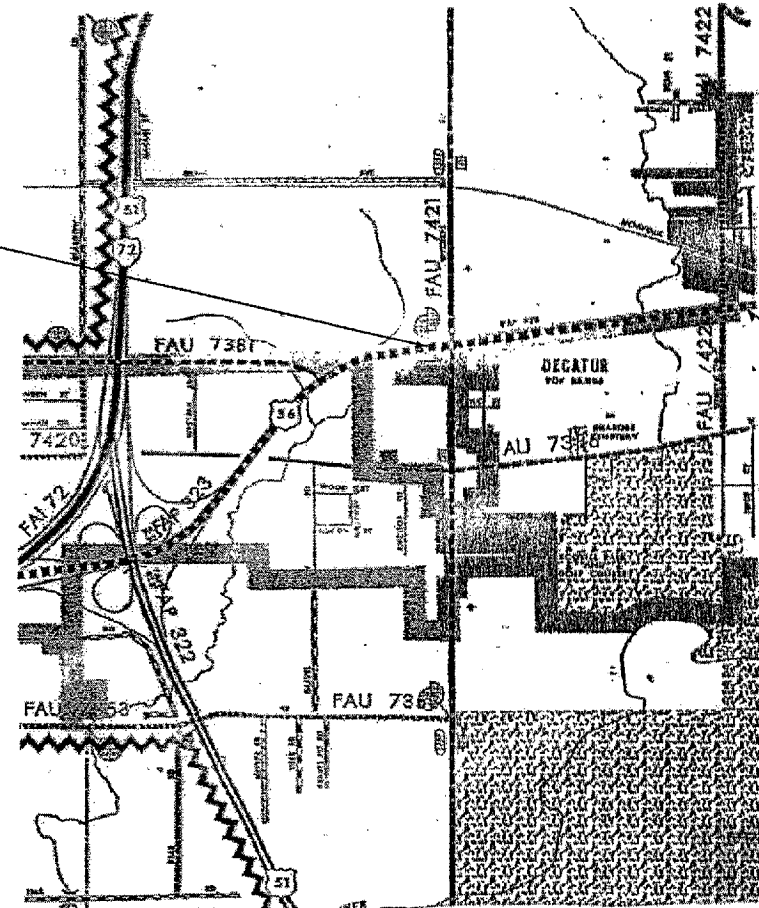


TOTAL LENGTH OF SECTION = 1,781.00 FT. = 0.337 MILES
NET LENGTH OF SECTION = 1,781.00 FT. = 0.337 MILES

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	.	MACON	13	4
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• D5 CRACK & JOINT SEAL 2006-2

LOCATION MAP #3
U.S. 36, FROM WYCLES RD. TO SUNNYSIDE RD.
MACON COUNTY/URBAN MULTILANE



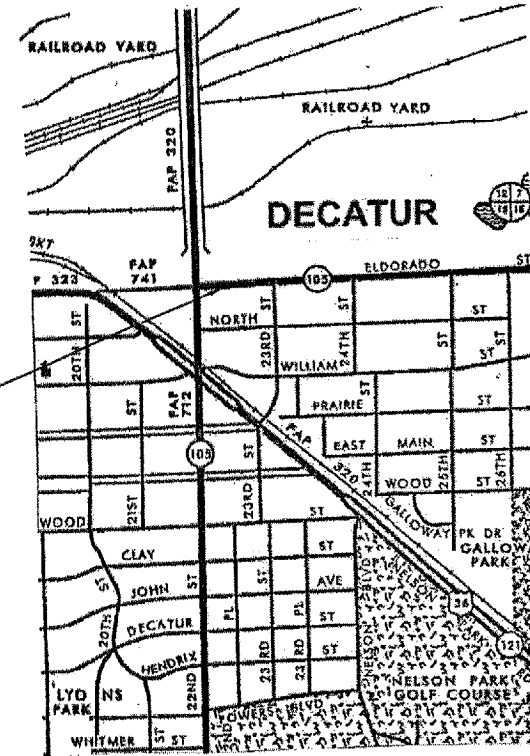
SECTION D5 CRACK & JOINT
 SEAL 2006-2
 BEGINS @ STATION 225+61.00

SECTION D5 CRACK & JOINT
 SEAL 2006-2
 ENDS @ STATION 284+34.00



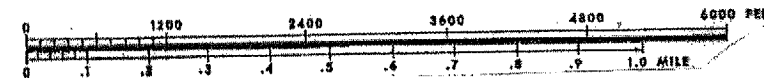
TOTAL LENGTH OF SECTION = 5,873.00 FT. = 1.112 MILES
 NET LENGTH OF SECTION = 5,873.00 FT. = 1.112 MILES

LOCATION MAP #4
IL 105, FROM 22nd ST. TO 27th ST.
MACON COUNTY/URBAN MULTILANE



SECTION D5 CRACK & JOINT
 SEAL 2006-2
 ENDS @ STATION 83+92.00

SECTION D5 CRACK & JOINT
 SEAL 2006-2
 BEGINS @ STATION 51+23.00



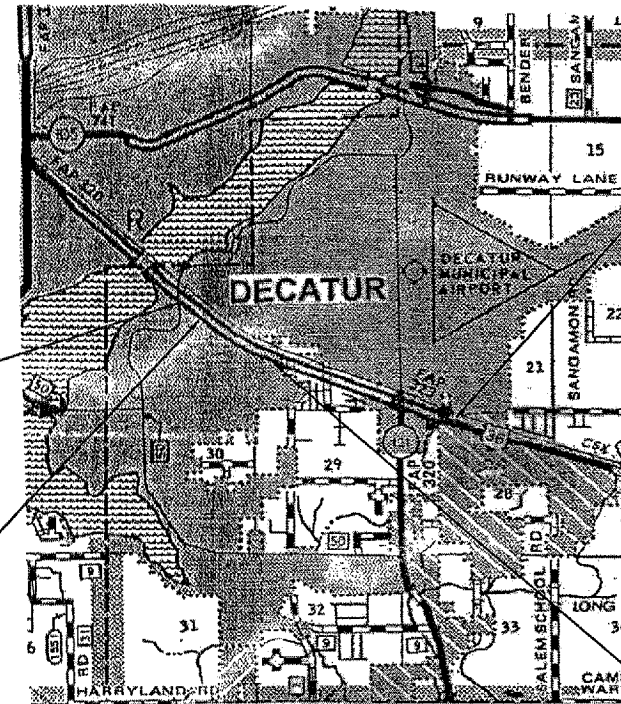
TOTAL LENGTH OF SECTION = 3,269.00 FT. = 0.619 MILES
 NET LENGTH OF SECTION = 3,269.00 FT. = 0.619 MILES

CONTRACT NO. 70493

F.A. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	MACON	13	5
STA. TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

• D5 CRACK & JOINT SEAL 2006-2

LOCATION MAP #5
U.S. 36, FROM COUNTRY CLUB RD. TO
2-LANE SECTION EAST OF IL 121
MACON COUNTY/URBAN MULTILANE

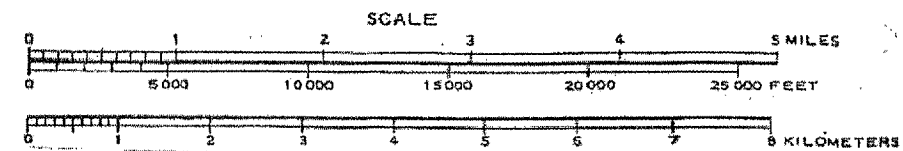


SECTION D5 CRACK & JOINT
 SEAL 2006-2
 BEGINS @ STATION 193+20.00

STATION EQUATION:
 STATION 193+90.71 (BK.) =
 STATION 193+90.80 (AH.)

SECTION D5 CRACK & JOINT
 SEAL 2006-2
 ENDS @ STATION 301+68.00

STATION EQUATION:
 STATION 234+00.09 (BK.) =
 STATION 234+18.00 (AH.)



TOTAL LENGTH OF SECTION = 10,830.00 FT. = 2.051 MILES
 NET LENGTH OF SECTION = 10,830.00 FT. = 2.051 MILES

PLOT DATE = 12/15/2005
 FILE NAME = c:\projects\ad50506 (v81)70493plan.dgn
 PLOT SCALE = 43.2355' / IN.
 USER NAME = pfersonbr

CONTRACT NO. 70493				
F.A. + RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MACON	13	6

• D5 CRACK & JOINT SEAL 2006-2

GENERAL NOTES

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.

G. N. - 451 (SPECIAL)

CRACK ROUTING AND FILLING CONSISTS OF BOTH LONGITUDINAL AND TRANSVERSE CRACKS. AN APPLICATION RATE OF 0.40 LBS./FOOT WAS USED TO DETERMINE CRACK FILLING QUANTITIES.

LOCATION #1

THE INTENT IN LOCATION #1 IS TO ROUT AND SEAL THE ENTIRE CENTERLINE & AUXILIARY LANE JOINTS, ALL SHOULDER JOINTS NOT IN THE CURB AND GUTTER AREAS, AND ALL TRANSVERSE CRACKS AND MISCELLANEOUS LONGITUDINAL CRACKS IN THE EXISTING PAVEMENT.

LONGITUDINAL: 39437 LBS
 TRANSVERSE : 12210 LBS
 TOTAL: 51647 LBS (ESTIMATED)

LOCATION #2

THE INTENT IN LOCATION #2 IS TO ROUT AND SEAL THE ENTIRE CENTERLINE & AUXILIARY LANE JOINTS, ALL TRANSVERSE CRACKS AND MISCELLANEOUS LONGITUDINAL CRACKS IN THE EXISTING PAVEMENT.

LONGITUDINAL: 2452 LBS
 TRANSVERSE : 648 LBS
 TOTAL: 3100 LBS (ESTIMATED)

LOCATION #3

THE INTENT IN LOCATION #3 IS TO ROUT AND SEAL THE ENTIRE CENTERLINE & AUXILIARY LANE JOINTS, ALL SHOULDER JOINTS NOT IN THE CURB AND GUTTER AREAS, AND ALL TRANSVERSE CRACKS AND MISCELLANEOUS LONGITUDINAL CRACKS IN THE EXISTING PAVEMENT.

LONGITUDINAL: 17471 LBS
 TRANSVERSE : 2595 LBS
 TOTAL: 20066 LBS (ESTIMATED)

LOCATION #4

THE INTENT IN LOCATION #4 IS TO ROUT AND SEAL THE ENTIRE CENTERLINE & AUXILIARY LANE JOINTS, ALL TRANSVERSE CRACKS AND MISCELLANEOUS LONGITUDINAL CRACKS IN THE EXISTING PAVEMENT.

LONGITUDINAL: 5073 LBS
 TRANSVERSE : 1117 LBS
 TOTAL: 6190 LBS (ESTIMATED)

LOCATION #5

THE CONTRACTOR SHALL PROCEED TO LOCATION #5 IF THE ACTUAL QUANTITIES USED FOR THE CRACK ROUTING AND CRACK FILLING AT LOCATIONS #1-#4 ARE LESS THAN THE PROJECTED QUANTITIES SHOWN IN THE SUMMARY OF QUANTITIES. IF QUANTITIES ARE AVAILABLE, THE INTENT IN LOCATION #5 IS TO ROUT AND SEAL THE ENTIRE CENTERLINE & AUXILIARY LANE JOINTS, ALL SHOULDER JOINTS, AND ALL TRANSVERSE CRACKS AND ANY MISCELLANEOUS LONGITUDINAL CRACKS IN THE EXISTING PAVEMENT. ROUTING AND SEALING SHALL BE COMPLETED IN THE WESTBOUND LANES PRIOR TO THE EASTBOUND LANES.

TOTAL: (TO BE DETERMINED)

NOTE: ANY CHANGES TO THE INTENT OF ROUTING AND SEALING AT THE ABOVE LISTED LOCATIONS SHALL BE APPROVED BY THE ENGINEER.

G. N. - 451A (SPECIAL)

THE SECTION OF 452.04, WHICH REFERS TO BACKER ROD PLACEMENT, SHALL ALSO APPLY TO THIS CONTRACT. THIS WORK SHALL BE PERFORMED AT THE DISCRETION OF THE ENGINEER IN ORDER TO KEEP THE APPLICATION RATE OF JOINT FILLER AS CLOSE TO THE DESIGN RATE OF 0.40 LBS./FOOT AS POSSIBLE. FURNISHING AND INSTALLING BACKER ROD WHEN REQUIRED BY THE ENGINEER WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MACON	13	7

* D5 CRACK & JOINT SEAL 2006-2

SUMMARY OF QUANTITIES

<u>CODE NO</u>	<u>ITEM</u>	<u>UNIT</u>	<u>TOTAL QUANTITY</u>	<u>LOCATION #1</u>	<u>LOCATION #2</u>	<u>LOCATION #3</u>	<u>LOCATION #4</u>	
				F000				
				LOCATION OF WORK: VARIOUS ROUTES D5 CRACK & JOINT SEAL 2006-2 MACON COUNTY	US 51 B MACON CO. URBAN 100% STATE ROUT & SEAL	IL 105 MACON CO. URBAN 100% STATE ROUT & SEAL	U. S. 36 MACON CO. URBAN 100% STATE ROUT & SEAL	IL 105 MACON CO. URBAN 100% STATE ROUT & SEAL
				LOCATION:				
45100100	CRACK ROUTING (PAVEMENT)	FOOT	202,508.0	129,117.0	7,750.0	50,165.0	15,476.0	
45100200	CRACK FILLING	POUND	81,003.0	51,647.0	3,100.0	20,066.0	6,190.0	
67100100	MOBILIZATION	L SUM	1.0	0.6	0.1	0.2	0.1	
70100310	TRAFFIC CONTROL AND PROTECTION, STANDARD 701421	L SUM	1.0	0.5	0.5	0.0	0.0	
70100420	TRAFFIC CONTROL AND PROTECTION, STANDARD 701411	EACH	5.0	5.0	0.0	0.0	0.0	
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1.0	0.0	0.3	0.0	0.7	
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1.0	0.7	0.0	0.3	0.0	

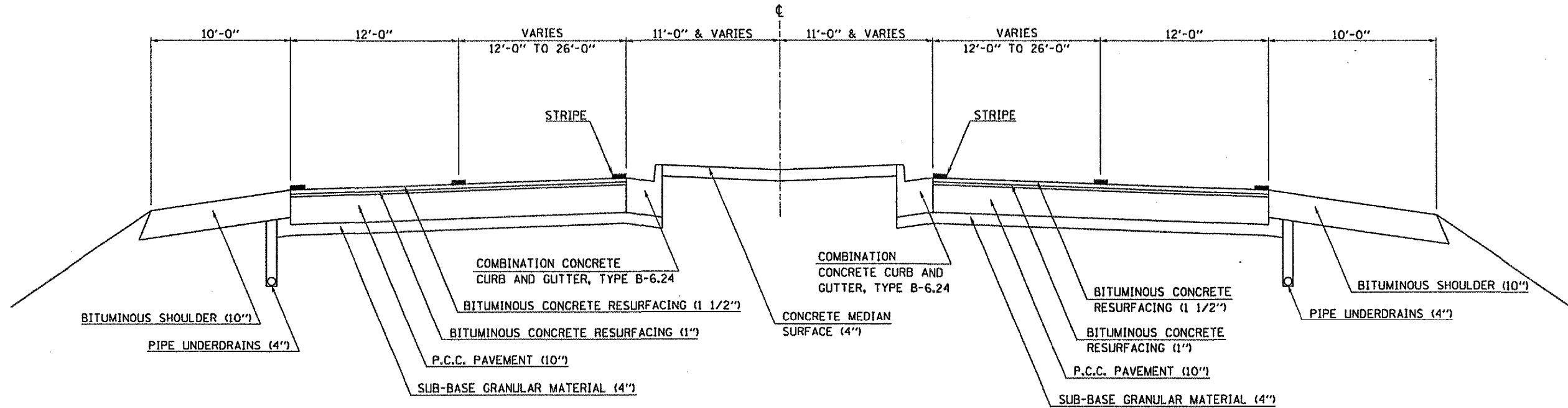
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MACON	13	8
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

* D5 CRACK & JOINT SEAL 2006-2

TYPICAL CROSS SECTION 1A

LOCATION #1

STATION 508+72.00 TO STATION 642+42.00 (1B)



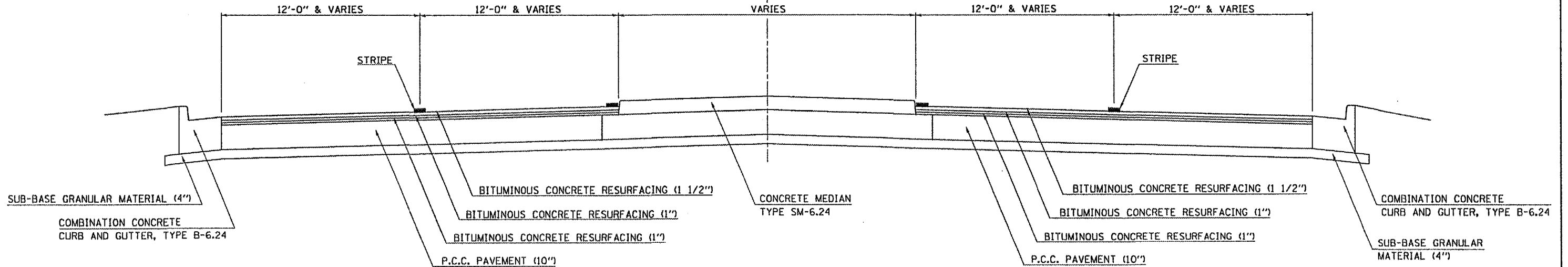
TYPICAL CROSS SECTION 1B

LOCATION #1

STATION 642+42.00 TO STATION 665+00.00 (BK.)
 U.S. 51B 1665+00.00 (AH.) 1670+89.00
 NB 1670+89.00 1681+89.00
 SB 1670+89.00 1682+25.00

BRIDGE OMISSIONS:
 N. B. STATION 1681+89.00 TO 1687+17.00
 S. B. STATION 1682+25.00 TO 1687+13.00

U.S. 51



PLOT DATE = 12/15/2005
 FILE NAME = c:\p\d\projects\70493\plan.dgn
 PLOT SCALE = 43.2355 / IN.
 USER NAME = plrfsnrb

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	-	MACON	13	9
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* D5 CRACK & JOINT SEAL 2006-2

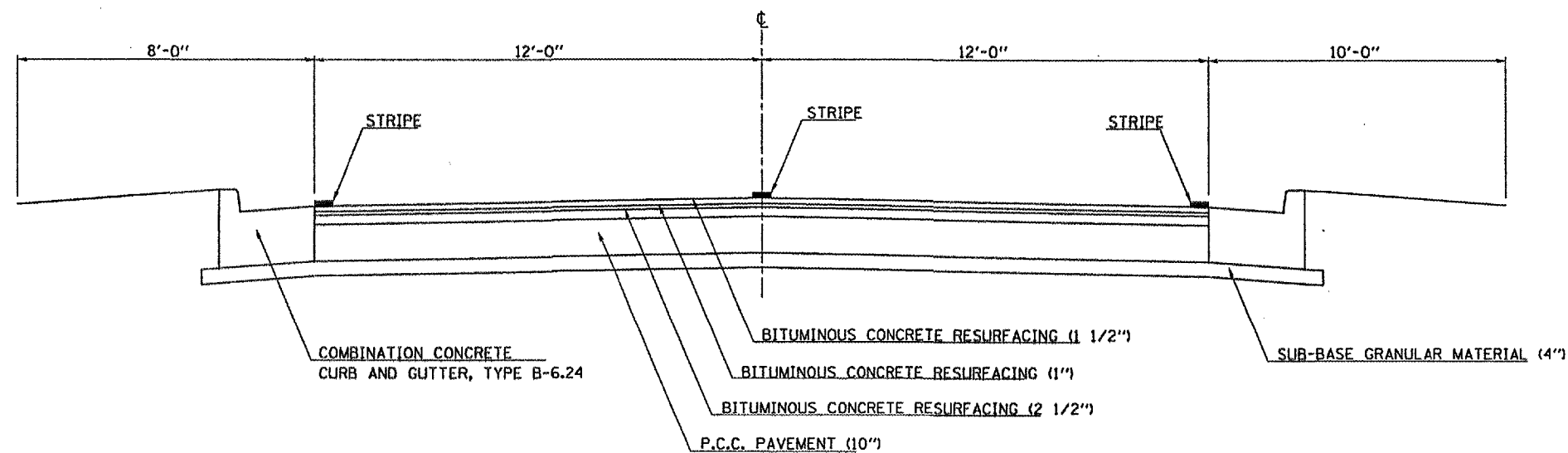
TYPICAL CROSS SECTION 1C

LOCATION # 1

STATION	TO	STATION
NB 1687+17.00		1693+03.00
NB 1694+58.00		1701+27.00 (1D)
SB 1687+13.00		1692+93.00
SB 1694+34.00		1706+19.00 (1D)

BRIDGE OMISSIONS:

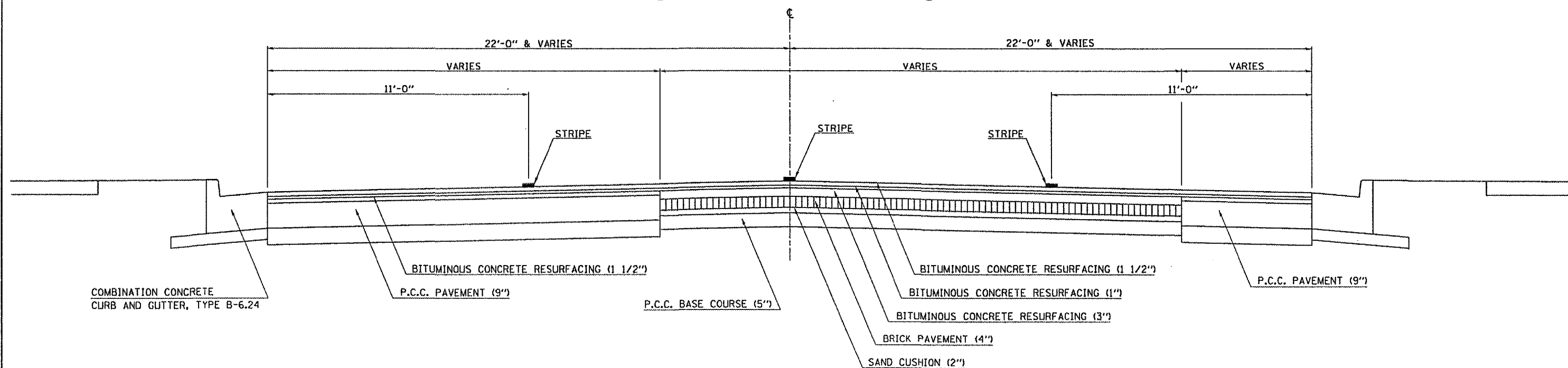
N.B. STATION 1693+03.00 TO 1694+58.00
S.B. STATION 1692+93.00 TO 1694+34.00



TYPICAL CROSS SECTION 1D

LOCATION # 1

STATION	TO	STATION
(1C) NB 1701+27.00		1706+19.00 (1C)

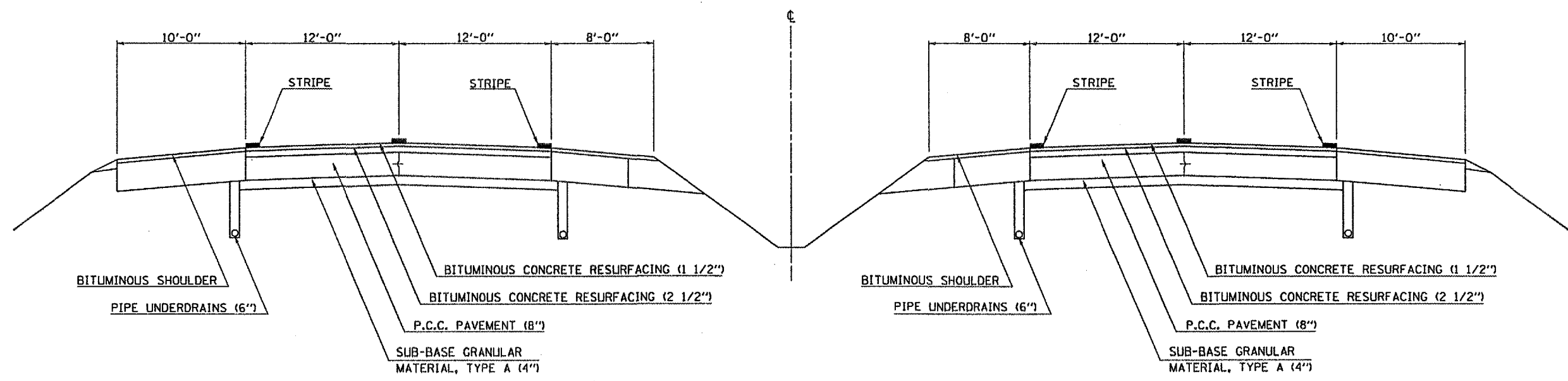


CONTRACT NO. 70493				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	•	MACON	13	11
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• D5 CRACK & JOINT SEAL 2006-2				

TYPICAL CROSS SECTION 3A

LOCATION #3

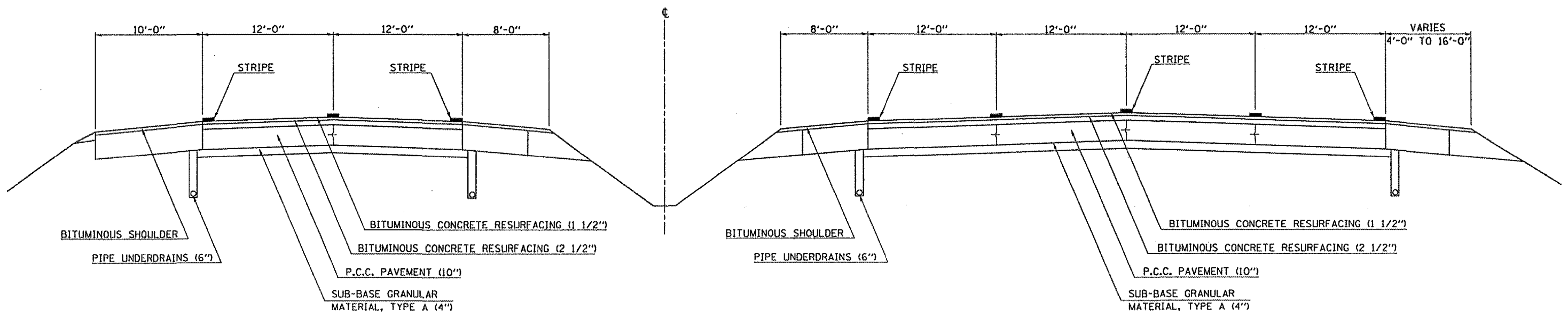
STATION TO STATION
 225+61.00 TO 228+53.00 3B
 3B 238+44.00 TO 284+34.00



TYPICAL CROSS SECTION 3B

LOCATION #3

STATION TO STATION
 3A 228+53.00 TO 238+44.00 3A



PLOT DATE = 02/05/2005
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 USER NAME = durrant

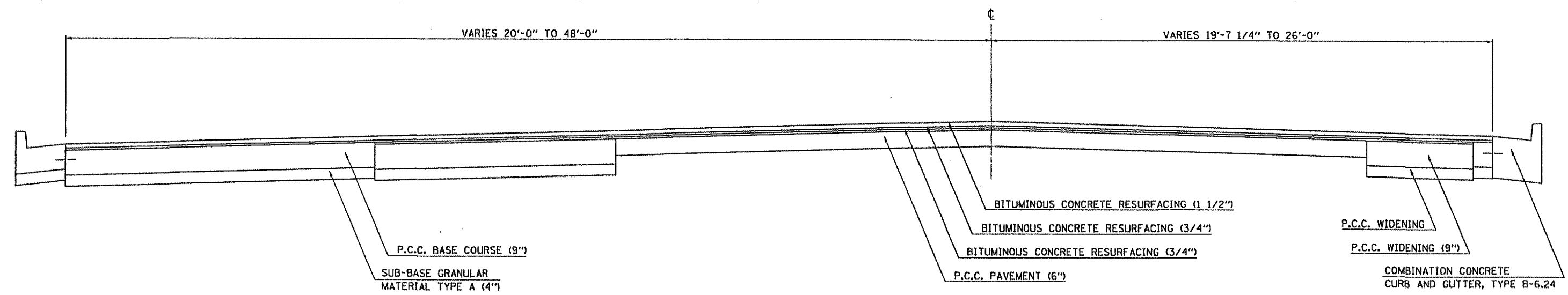
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR.	*	MACON	13	12
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

* D5 CRACK & JOINT SEAL 2006-2

TYPICAL CROSS SECTION 4A

LOCATION #4

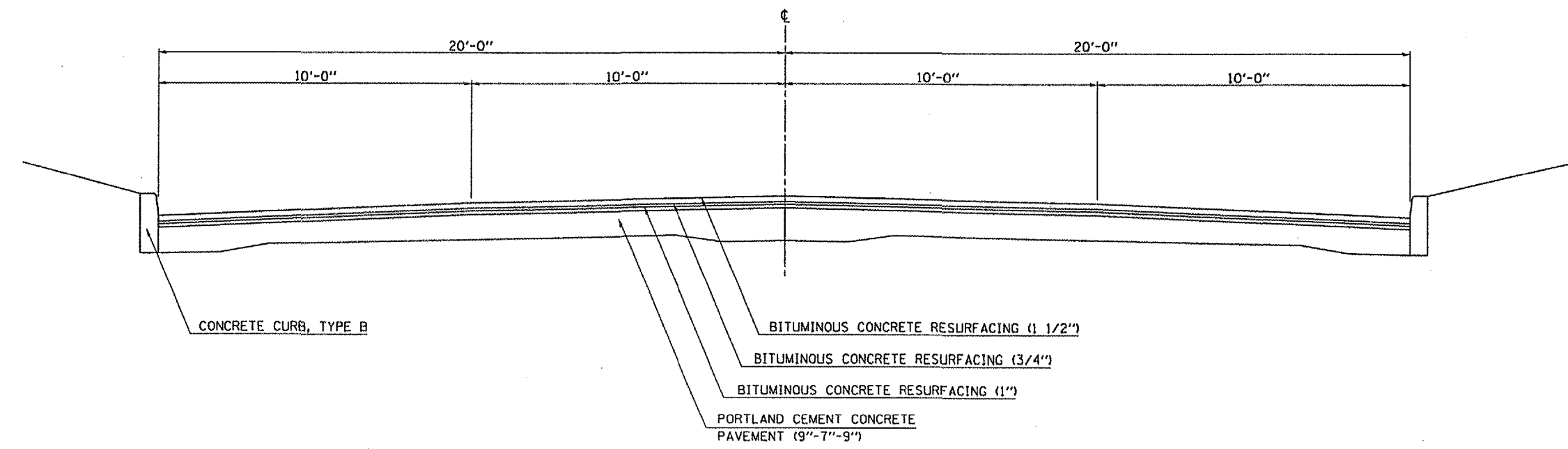
STATION 51+23.00 TO STATION 55+50.50 4B



TYPICAL CROSS SECTION 4B

LOCATION #4

STATION 55+50.50 TO STATION 83+92.00 4A

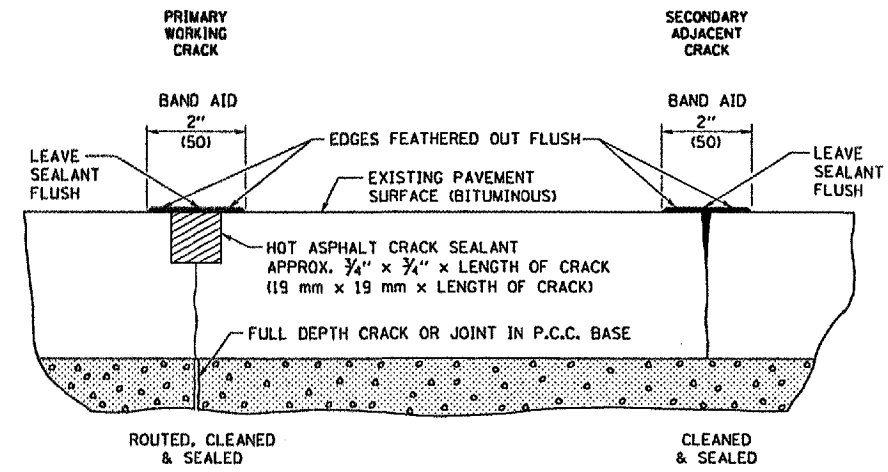


PLOT DATE = 12/15/2005
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 USER NAME = pier-sombr

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		MACON	13	13

• D5 CRACK & JOINT SEAL 2006-2

TYPICAL DETAILS FOR CRACK SEALING FOR BITUMINOUS PAVEMENT



	NAME	DATE	REVISIONS	
DESIGNED	SPRG.	04/90	NAME	DATE
CHECKED	J.H.M.	05/90	K.A.G.	04/04
CADD NO.	X-2.05			

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