

01-15-2021 LETTING ITEM 137

INDEX OF SHEETS

- 1 Cover Sheet
- 2 Location Map and Straight Line Diagram
- 3 Summary of Quantities, General notes
- 4-6 Typical Cross Sections
- 7-8 Schedules
- 9-13 Details

STANDARDS

- 701201-05, Ln Closure 2L, 2W, Day Only ≥ 45MPH
- 701306-04, Ln Closure, 2L, 2W, Move Op Day ≥ 45
- 701311-03, Ln Closure 2L, 2W, Move op Day Only
- 701901-08, Traffic Ctrl. Devices
- 780001-05, Typical Pavement Markings
- B.L.R. 24-2, Mailbox Turnout for Local Roads

Location: CH-24, Rae's Bridge Road

ADT: 2450

Functional Classification: Major Collector

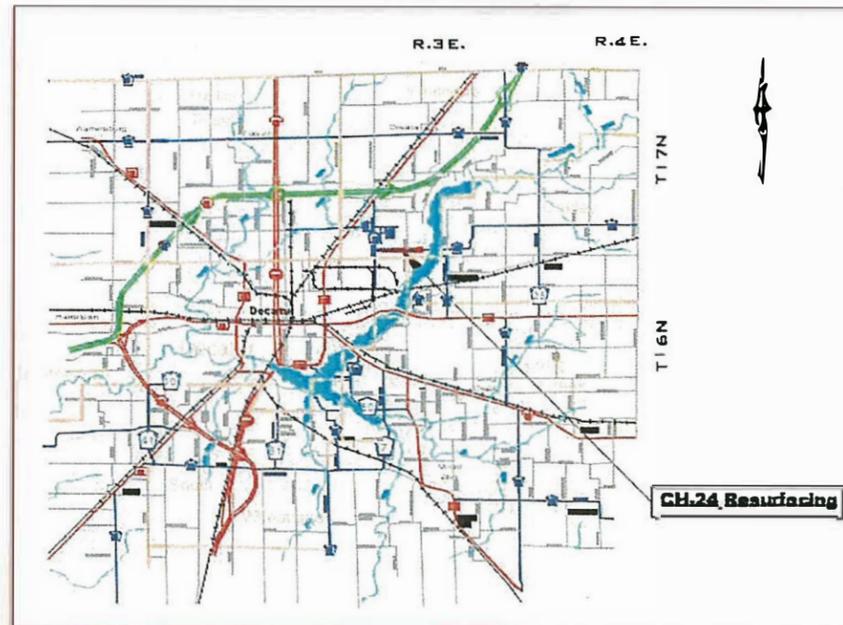
Design Speed: 55 mph

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PLANS FOR THE PROPOSED
IMPROVEMENT OF FEDERAL AID
SECONDARY ROUTE
STR FUNDS**

Section Number 20-00300-00-RS
Job Number C-97-108-21
Project Number DKNM(748)
Contract Number 95880

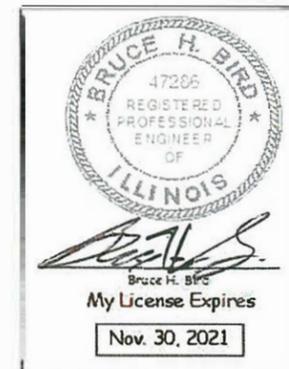
FAU 7355/1544 (CH-24) RESURFACING PROJECT MACON COUNTY, ILLINOIS



TOTAL LENGTH = 15,646 feet, 2.96 miles
NET LENGTH = 11,416 feet, 2.16 miles
OMISSION: 75+88 TO 118+18, 4230 feet, 0.8 miles



J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123 or 811



APPROVED: August 7, 2020
Bruce H. Bird
COUNTY ENGINEER

PASSED: 11-16-20
Tom Hammer
DISTRICT ENGINEER OF LOCAL ROADS AND STREETS

Releasing For Bid Based
On Limited Review: 11-16-20
Jeffery S. [Signature]
REGION FOUR ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



MACON COUNTY 2020 REA'S BRIDGE ROAD RESURFACING PROJECT

LOCATION MAP

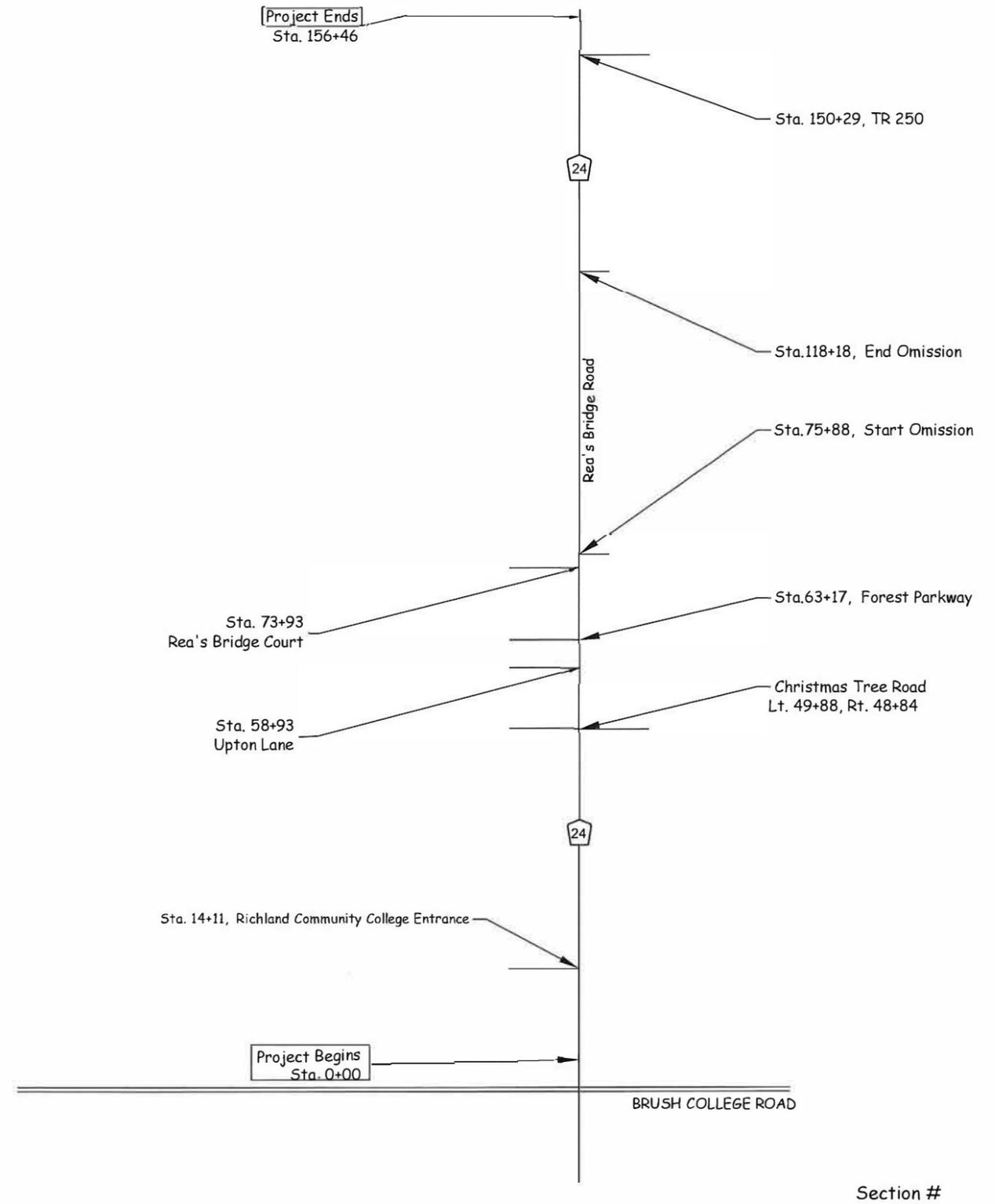


Location No. 1

1. CH-24, Rea's Bridge Road from just east of Brush College Road eastward to just North of TR 250, with an omission across the lake from 75+88 to 118+18.

CH-24 Straight Line Diagram

-- Station 0+00 to 156+46



	Design by:	AJM	Rea's Bridge Road (C.H. 24)	Contract # 95880
	CAD by:	AJM	Straight Line Diagram	Section # 20-00300-00-RS
	Checked by:			TOTAL SHEETS
	Date:	7-22-20	Macon County Highway - Engineering Division	13

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	24
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	22870
40600982	HOT-MIX ASPHALT SURFACE REMOVAL- BUTT JOINT	SQ YD	686
40602985	HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70	TON	2856
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	3850
40800029	BITUMINOUS MATERIALS (TACK COAT)	POUND	1416
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	454
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	1202
60266600	VALVE BOXES TO BE ADJUSTED	EACH	4
67100100	MOBILIZATION	L SUM	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	2290
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	380
Δ 78000100	THERMOPLASTIC PAVEMENT MARKING-LETTERS AND SYMBOLS	SQ FT	93.6
Δ 78000200	THERMOPLASTIC PAVEMENT MARKING-LINE 4"	FOOT	2948
Δ 78000600	THERMOPLASTIC PAVEMENT MARKING-LINE 12"	FOOT	270
Δ 78000650	THERMOPLASTIC PAVEMENT MARKING-LINE 24"	FOOT	32
Δ 78001110	PAINT PAVEMENT MARKING-LINE 4"	FOOT	34813
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	73
X4820110	HOT-MIX ASPHALT SHOULDER REMOVAL AND REPLACEMENT (SPECIAL)	SQ YD	973
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
20004542	HOT-MIX ASPHALT SURFACE REMOVAL (SPECIAL)	SQ YD	718
20033700	LONGITUDINAL JOINT SEALANT	FOOT	13505
20070100	SURVEY MONUMENT COVER ASSEMBLY	EACH	1

Δ SPECIALTY ITEMS

GENERAL NOTES

- ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE SEEDED AS DIRECTED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.
- ACCESS TO ALL ENTRANCES SHALL BE MAINTAINED AT ALL TIMES.
- WHEREVER IN THE PLANS OR SPECIFICATIONS THE TERM STANDARD SPECIFICATION IS USED, IT SHALL BE UNDERSTOOD BY THE CONTRACTOR TO MEAN THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION AS PREPARED BY THE DEPARTMENT OF TRANSPORTATION OF THE STATE OF ILLINOIS AND ADOPTED APRIL 1, 2016.
- THE CONTRACTOR SHALL TAKE REASONABLE PRECAUTIONS TO PROTECT PUBLIC AND PRIVATE PROPERTY. IF AT ANY TIME THE CONTRACTOR DAMAGES OR DESTROYS PUBLIC OR PRIVATE PROPERTY, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, RESTORE SUCH PROPERTY TO A CONDITION EQUAL TO THAT EXISTING BEFORE SUCH DAMAGE.
- IN ADDITION TO FIELD SURVEYS AND ARIAL SURVEYS, PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING FACILITIES ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION DUE TO A CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.
- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE LIST OF STANDARDS INCLUDED IN THESE PLANS.
- DRAWINGS AND DETAILS ARE ASSUMED NOT TO SCALE UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATION.
- ANY DAMAGE TO THE UNDERGROUND FACILITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE. INCLUDING TEMPORARY REPAIRS WHICH MAY BE REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMENANT REPAIRS. UTILITY ADJUSTMENTS SHALL BE MADE BY THE UTILITY COMPANIES UNLESS OTHERWISE NOTED.

RATES OF APPLICATION

ITEM	RATE
HMA BINDER AND SURFACE COURSE	112 LBS/IN/SQ YD
AGGREGATE SHOULDER WEDGE TY B	2.05 TONS/CU YD
BITUMINOUS MATERIAL TACK COAT (40600290)	.025 & .05 LBS/SF
BITUMINOUS MATERIAL TACK COAT (40800029)	.05 LBS/SF

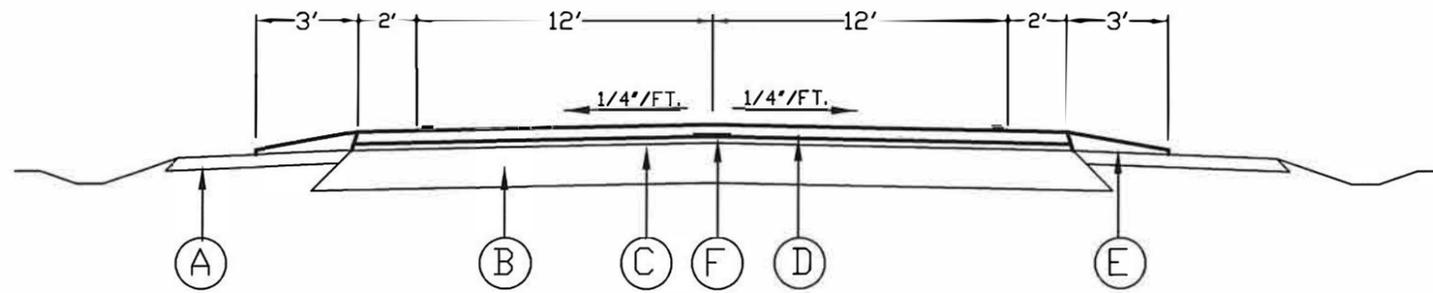
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	Checker AJM	Summary of Quantities & General Notes	Section # 20-00300-00-RS	
	Date 7/31/2020	Macon County Highway - Engineering Division	TOTAL SHEETS 13	SHEET NO. 3

PROPOSED TYPICAL CROSS SECTION

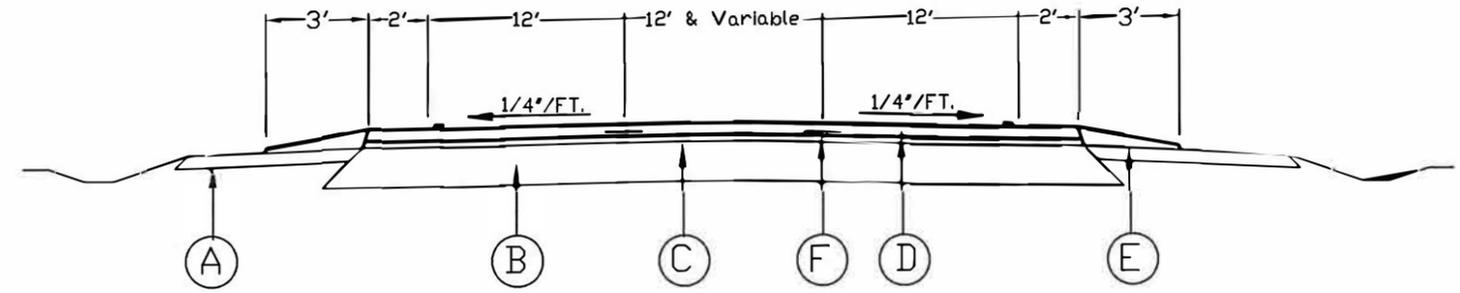
REA'S BRIDGE ROAD

CH-24

0+00 to 8+84



8+84 to 17+60



- (A) EXISTING AGGREGATE SHOULDERS
- (B) EXISTING PAVEMENT, 8" BIT BSE CSE AND 3" HMA BINDER AND SURFACE
- (C) PROPOSED HMA BINDER COURSE IL 9.5 N70 1.5"
- (D) PROPOSED HMA SURFACE COURSE IL 9.5 "C" N70 2"
- (E) PROPOSED AGGREGATE SHOULDERS, WEDGE
- (F) PROPOSED LONGITUDINAL JOINT SEAL

- (A) EXISTING AGGREGATE SHOULDERS
- (B) EXISTING PAVEMENT, 8" BIT BSE CSE AND 3" HMA BINDER AND SURFACE
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- (E) PROPOSED AGGREGATE SHOULDERS, WEDGE
- (F) PROPOSED LONGITUDINAL JOINT SEAL

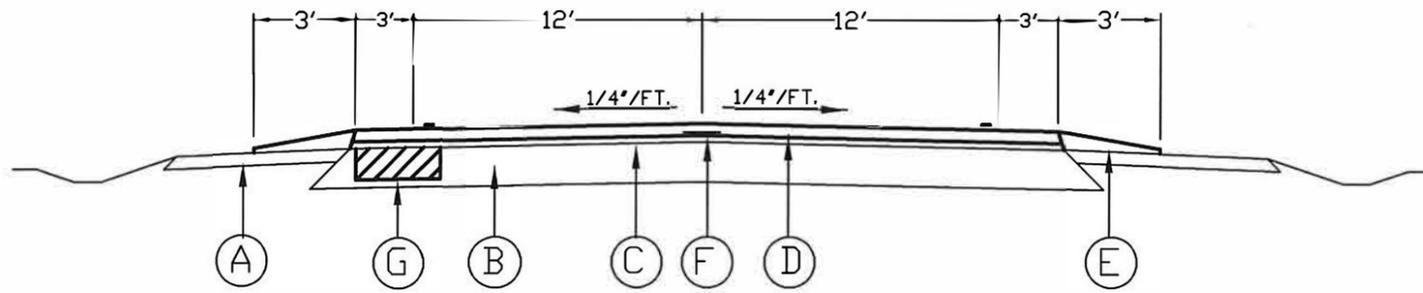
	Design: AJM	Rea's Bridge Road (C.H. 24)	Contract # 95880
	Drawn by: AJM	Typical Cross Sections	Section # 20-00300-00-R5
	Checked by:		
	Date: 7-22-20	Macon County Highway - Engineering Division	TOTAL SHEETS: 13 THIS SHEET: 4

PROPOSED TYPICAL CROSS SECTION

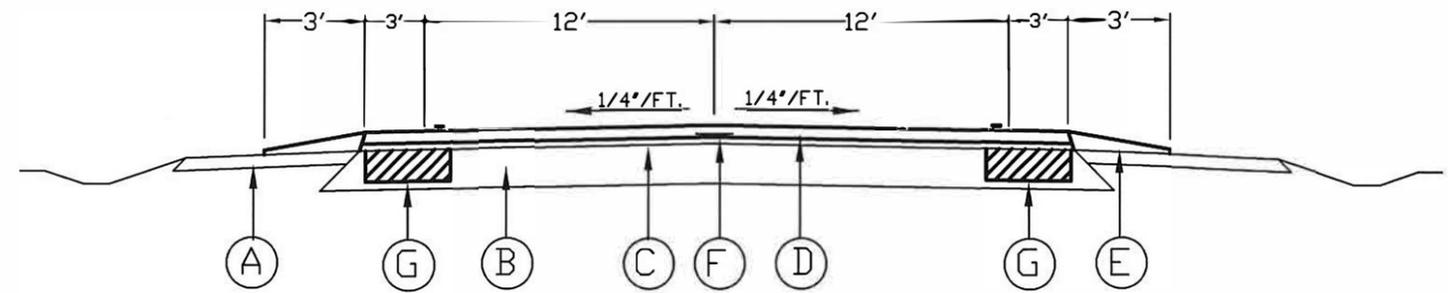
REA'S BRIDGE ROAD

CH-24

17+60 to 23+35



23+35 to 34+88



- (A) EXISTING AGGREGATE SHOULDERS
- (B) EXISTING PAVEMENT, 8" BIT BSE CSE AND 3" HMA BINDER AND SURFACE
- (C) PROPOSED HMA BINDER COURSE IL 9.5 N70 1.5"
- (D) PROPOSED HMA SURFACE COURSE IL 9.5 "C" N70 2"
- (E) PROPOSED AGGREGATE SHOULDERS, WEDGE
- (F) PROPOSED LONGITUDINAL JOINT SEAL
- (G) PROPOSED SHOULDER REMOVE AND REPLACE 8" SPECIAL

- (A) EXISTING AGGREGATE SHOULDERS
- (B) EXISTING PAVEMENT, 8" BIT BSE CSE AND 3" HMA BINDER AND SURFACE
- (C) PROPOSED HMA BINDER COURSE IL 9.5 N70 1.5"
- (D) PROPOSED HMA SURFACE COURSE IL 9.5 "C" N70 2"
- (E) PROPOSED AGGREGATE SHOULDERS, WEDGE
- (F) PROPOSED LONGITUDINAL JOINT SEAL
- (G) PROPOSED SHOULDER REMOVE AND REPLACE 8" SPECIAL

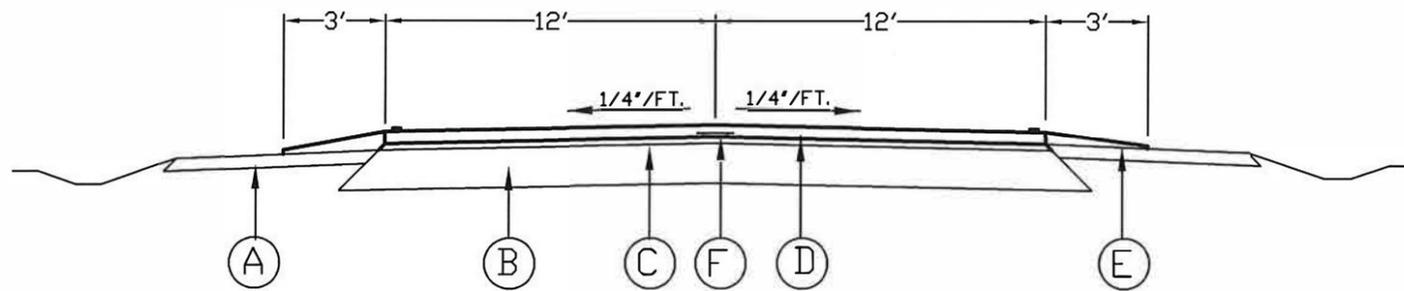
	Drawn by: AJM	Rea's Bridge Road (C.H. 24)	Contract # 95880
	Checked by: AJM	Typical Cross Sections	Section # 20-00300-00-R5
	Date: 7-22-20	Macon County Highway - Engineering Division	

PROPOSED TYPICAL CROSS SECTION

REA'S BRIDGE ROAD

CH-24

34+88 to 75+88
118+18 to 156+46



- (A) EXISTING AGGREGATE SHOULDERS
- (B) EXISTING PAVEMENT, 8" BIT BSE CSE AND 3" HMA BINDER AND SURFACE
- (C) PROPOSED HMA BINDER COURSE IL 9.5 N70 1.5"
- (D) PROPOSED HMA SURFACE COURSE IL 9.5 "C" N70 2"
- (E) PROPOSED AGGREGATE SHOULDERS, WEDGE
- (F) PROPOSED LONGITUDINAL JOINT SEAL

	Design: AJM	Rea's Bridge Road (C.H. 24)	Contract # 95880
	DRAWN: AJM	Typical Cross Sections	Section # 20-00300-00-RS
	Date: 7-22-20	Macon County Highway - Engineering Division	

CH-24 INCIDENTAL RESURFACING SCHEDULE

		Existing Surface Behind	Incidental HMA Surf Tons	HMA Surf Rem Spl Sq. Yd.s	Aggregate Surf Cse B Ton	Area Sq. Yds.	Average Width Feet			Existing Surface Behind	Incidental HMA Surf Tons	HMA Surf Rem Spl Sq. Yd.s	Aggregate Surf Cse B Ton	Area Sq. Yds.	Average Width Feet
	FE	Lt. 18+87	Agg.	4.1	1.0	36.7	33		MBTO	Lt. 61+46	2.6			23.3	35
	FE	Lt. 20+97	Agg.	4.7	1.0	42.2	38		PE	Rt. 62+21	Bit.	3.2	14.4	28.9	26
	CE	Rt. 21+72	Agg.	10.0	1.0	88.9	80		Forest Parkway	Lt. 63+17	Bit.	22.8	12.8	204.0	23
	CE	Rt. 22+97	Agg.	8.7	1.0	77.8	70		PE	Lt. 64+43	Bit.	3.5	15.6	31.1	28
	CE	Rt. 24+27	Agg.	4.4	1.0	38.9	35		MBTO	Lt. 64+43		3.0		27.2	35
	CE	Rt. 25+04	Conc.	8.5	37.8	75.6	68		PE	Rt. 67+38	Bit.	6.7	30.0	60.0	54
	CE	Rt. 26+84	Agg.	6.2	1.0	55.6	50		MBTO	Lt. 67+38		3.1		27.6	31
	FE	Lt. 28+62	Agg.	40.3	2.0	240.0	69		PE	Lt. 68+13	Bit.	3.4	15.0	30.0	27
	CE	Rt. 29+42	Bit.	10.0	44.4	88.9	80		PE	Lt. 68+46	Bit.	3.4	15.0	30.0	27
	FE	Lt. 30+37	Dirt	4.4		38.9	35		MBTO	Lt. 68+46		2.7		24.1	31
	CE	Rt. 30+37	Agg.	7.5	1.0	66.7	60		PE	Rt. 69+77	Bit.	3.5	15.6	31.1	28
	CE	Rt. 31+85	Agg.	7.5	1.0	66.7	60		PE	Lt. 70+63	Bit.	8.2	36.7	73.3	66
	CE	Rt. 33+70	Bit.	6.5	28.9	57.8	52		PE	Lt. 72+47	Bit.	4.0	17.8	35.6	32
	CE	Rt. 34+42	Agg.	10.6	1.0	94.4	85		PE	Lt. 72+81	Bit.	4.0	17.8	35.6	32
	FE	Lt. 37+94	Agg.	5.2	1.0	46.7	42		Rea's BridgeCourt	Lt. 73+93	Bit.	14.4	12.8	129.0	23
	PE	Rt. 38+42	Bit.	4.4	19.4	38.9	35		PE	Rt. 118+82	O&C	3.1	13.9	27.8	25
	MBTO	Rt. 38+42		3.1		27.6	31		FE	Rt. 119+30	Agg.	1.7		15.1	30
	PE	Rt. 39+67	Agg.	2.7	1.0	24.4	22		PE	Lt. 120+68	Bit.	2.0	8.9	17.8	16
	MBTO	Rt. 39+67		3.1		27.6	31		MBTO	Lt. 120+68		3.9		34.7	52
	PE	Rt. 43+14	Conc.	2.5	11.1	22.2	20		PE	Rt. 121+24	Bit.	3.4	15.0	30.0	27
	MBTO	Rt. 43+14		3.1		27.6	31		PE	Lt. 124+41	Bit.	5.9	12.8	52.3	23
	MBTO	Rt. 44+60		3.1		27.6	31		MBTO	Lt. 124+41		2.2		20.0	30
	PE	Rt. 44+60	Agg.	3.5	1.0	31.1	28		PE	Rt. 124+49	Bit.	2.4	10.6	21.1	19
	FE	Lt. 46+37	Dirt	1.4		12.4	24		PE	Rt. 125+91	Bit.	3.1	13.9	27.8	25
	FE	Rt. 46+37	Agg.	1.0	1.0	9.3	17		MBTO	Lt. 125+91		5.8		34.7	39
	Christmas Tree Road	Lt. 49+88	Bit.	17.1	12.8	153.0	23		FE	Rt. 127+94	Agg.	1.4		12.9	25
	Christmas Tree Road	Rt. 49+84	Bit.	17.1	12.8	153.0	23		PE	Lt. 128+40	Bit.	2.7	12.2	24.4	22
	PE	Lt. 52+43	Bit.	3.0	13.3	26.7	24		MBTO	Lt. 128+40		2.2		20.0	30
	MBTO	Lt. 52+43		3.1		27.6	31		PE	Rt. 129+61	Agg.	2.2		20.0	18
	PE	Rt. 52+81	Bit.	3.5	15.6	31.1	28		PE	Lt. 130+25	Bit.	3.2	14.4	28.9	26
	FE	Rt. 54+08	Bit.	3.5	15.6	31.1	28		MBTO	Lt. 130+43		1.0		8.9	10
	PE	Lt. 54+20	Bit.	3.0	13.3	26.7	24		PE	Lt. 130+68	Agg.	3.7		33.3	30
	MBTO	Lt. 54+20		2.3		20.7	31		FE	Lt. 136+39	Agg.	1.7		15.1	30
	PE	Rt. 55+18	Bit.	3.7	16.7	33.3	30		PE	Lt. 138+17	Bit.	2.7	12.2	24.4	22
	MBTO	Lt. 55+68		3.1		27.6	31		MBTO	Lt. 138+17		2.7		24.4	27.5
	PE	Lt. 55+83	Bit.	5.0	22.2	44.4	40		PE	Lt. 139+27	Conc.	5.6	8.3	50.0	15
	MBTO	Lt. 55+83		2.2		20.0	30		MBTO	Lt. 139+27		3.0		26.7	30
	PE	Rt. 56+15	Bit.	4.4	19.4	38.9	35		PE	Lt. 144+90	Conc.	5.8	11.3	51.8	20.4
	PE	Lt. 56+85	Bit.	3.5	15.6	31.1	28		MBTO	Lt. 145+25		3.6		32.0	48
	MBTO	Lt. 56+85		2.2		20.0	30		PE	Lt. 145+60	Conc.	6.2	13.3	55.7	24
	PE	Lt. 57+89	Agg.	3.5	15.6	31.1	28		PE	Lt. 147+44	Agg.	3.5		31.1	28
	Upton Lane	Lt. 58+93	Bit.	20.0	12.8	179.0	23		PE	Lt. 150+43	Conc.	6.2	13.3	55.7	24
	FE	Rt. 59+75	Agg.	3.1	13.9	27.8	25		MBTO	Lt. 150+43		2.2		20.0	30
	PE	Lt. 61+46	Bit.	3.0	13.3	26.7	24		FE	Rt. 156+84	Agg.	1.4		12.9	25
	Total			272.8	354.4	17.0			Total		180.3	363.6	7.0		

Grand Total	453.1	718.0	24.0
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MAINLINE SCHEDULE				
	VALVE BOX ADJUST	SURVEY MONUMENT COVER ASSEMBLY	HMA SURFACE REMOVAL BUTT JOINT	RRPM REMOVAL
LOCATION	EACH	EACH	SQ YD	EACH
0+00 TO 0+40			124	
RCC ENTRANCE, 30' BUTT JT. CL 49+64		1	180	
CHRISTMAS TREE RD. LT 49+88				
UPTON LANE LT 58+93				
FOREST PARKWAY LT 63+17				
REA'S BRIDGE CT. LT 73+93				
17+60 TO 75+88	1		107	73
75+48 TO 75+88	1			
118+18 TO 118+58	1		107	
156+06 TO 156+46	1		98	
TR 250			70	
	4	1	686	73



Design By:	AJM	Rea's Bridge Road (CH-24)	Contract #95880
CAD By:	AJM	Incidental HMA & Mainline Schedule	Section # 20-00300-00-RS
Checked By:			TOTAL SHEETS
Date:	8/7/2020	Macon County Highway - Engineering Division	13
			SHEET NO. 7

PAVEMENT MARKING SCHEDULE

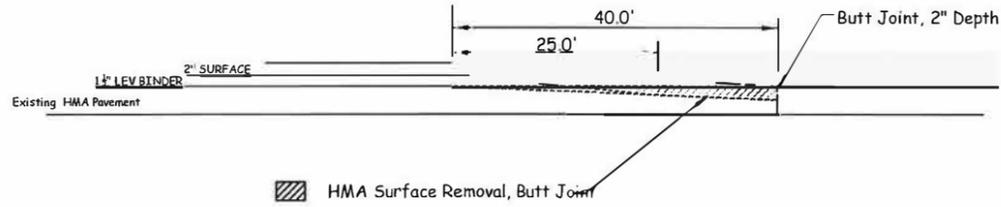
BEGIN STATION	END STATION	OFFSET	THERMOPLASTIC PAVEMENT MARKING LINE 4" FOOT	THERMOPLASTIC PAVEMENT MARKING LINE 12" FOOT	THERMOPLASTIC PAVEMENT MARKING LINE 24" FOOT	THERMOPLASTIC PAVEMENT MARKING LETTER & SYMBOL SQ FT	PAINT PVT MK LINE 4" WHITE FOOT	PAINT PVT MK LINE 4" YELLOW FOOT	NOTES
0+00	8+90	LT. & RT.					1780		EDGE LINES WHITE
0+00	8+90	CENTER						223	SKIP DASH YELLOW
8+90	9+05	CENTER	30						DOUBLE YELLOW
9+05	13+73	CENTER	1672	150					STRIPED MEDIAN YELLOW
12+73	13+73	RT. TL					100		TURN LANE LINE WHITE
12+73	13+43	CENTER				31.2			TURNLANE ARROWS WHITE
RCC Entrance Radii, 85'+66'		LT.					151		EDGE LINE Radii WHITE
RCC Entrance		LT.					27	54	DOUBLE YELLOW & TL Line
RCC Entrance		LT.			32	31.2			TL ARROWS & STOP BAR WHITE
14+81	15+51	LT.				31.2			TURNLANE ARROWS WHITE
14+28	17+25	CENTER	1176	120					STRIPED MEDIAN YELLOW
17+25	17+60	CENTER	70						DOUBLE YELLOW
14+55	15+55	LT.					100		TURN LANE LINE WHITE
8+90	17+60	LT. & RT.					1597		EDGE LINES WHITE
17+60	62+04	CENTER						1111	SKIP DASH YELLOW
29+96	37+05	CENTER						709	SINGLE SOLID YELLOW
37+05	48+25	CENTER						1120	SINGLE SOLID YELLOW
53+54	62+04	CENTER						850	SINGLE SOLID YELLOW
62+04	67+00	CENTER						992	DOUBLE YELLOW
67+00	72+40	CENTER						540	SINGLE SOLID YELLOW
67+00	72+40	CENTER						135	SKIP DASH YELLOW
72+40	75+88	CENTER						696	DOUBLE YELLOW
17+60	75+88	LT. & RT.					11301		EDGE LINES WHITE
118+18	156+46	LT. & RT.					7656		EDGE LINES WHITE
118+18	121+02	CENTER						71	SKIP DASH YELLOW
118+18	121+02	CENTER						284	SINGLE SOLID YELLOW
121+02	132+73	CENTER						2342	DOUBLE YELLOW
132+73	134+74	CENTER						201	SINGLE SOLID YELLOW
132+73	150+37	CENTER						441	SKIP DASH YELLOW
139+23	143+14	CENTER						391	SINGLE SOLID YELLOW
143+14	150+37	CENTER						723	SINGLE SOLID YELLOW
150+37	156+46	CENTER						1218	DOUBLE YELLOW
TOTALS			2948	270	32	93.6	22712	12101	

34813



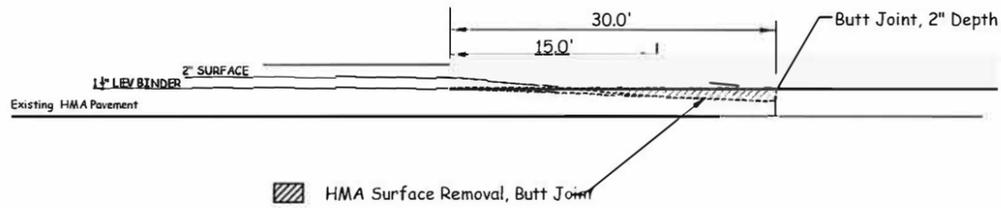
Design By:	AJM	Rea's Bridge Road (CH-24)	Contract # 95880				
CAD By:	AJM	Pavement Marking Schedule	Section # 20-00300-00-RS				
Checked By:							
Date:	8/7/2020	Macon County Highway - Engineering Division	<table border="1" style="font-size: small;"> <tr> <td>TOTAL SHEETS</td> <td>SHEET NO.</td> </tr> <tr> <td>13</td> <td>8</td> </tr> </table>	TOTAL SHEETS	SHEET NO.	13	8
TOTAL SHEETS	SHEET NO.						
13	8						

HMA Surface Removal, Butt Joint Detail



LOCATIONS

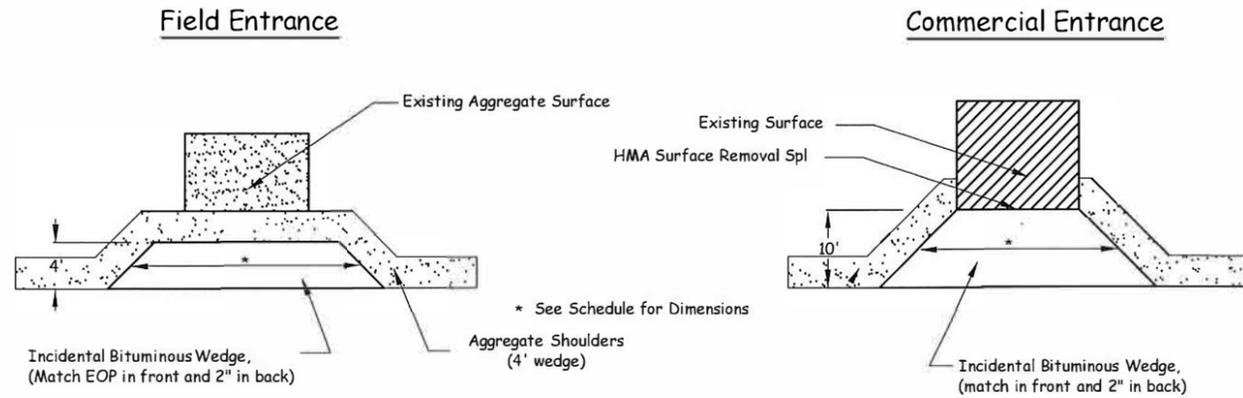
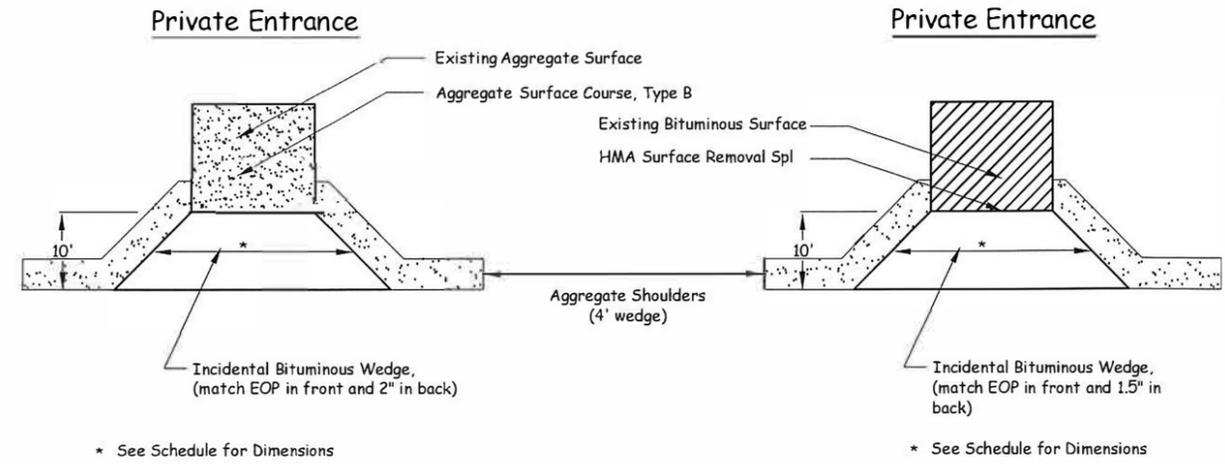
0+00 to 0+40	107 sq.yds
75+48 to 75+88	107 sq.yds.
118+18 to 118+58	107 sq. yds
156+06 to 156+46	98 sq. yds



LOCATION

RCC Entrance	180 sq.yds
TR 250	73 sq. yds.

Typical Entrance Detail



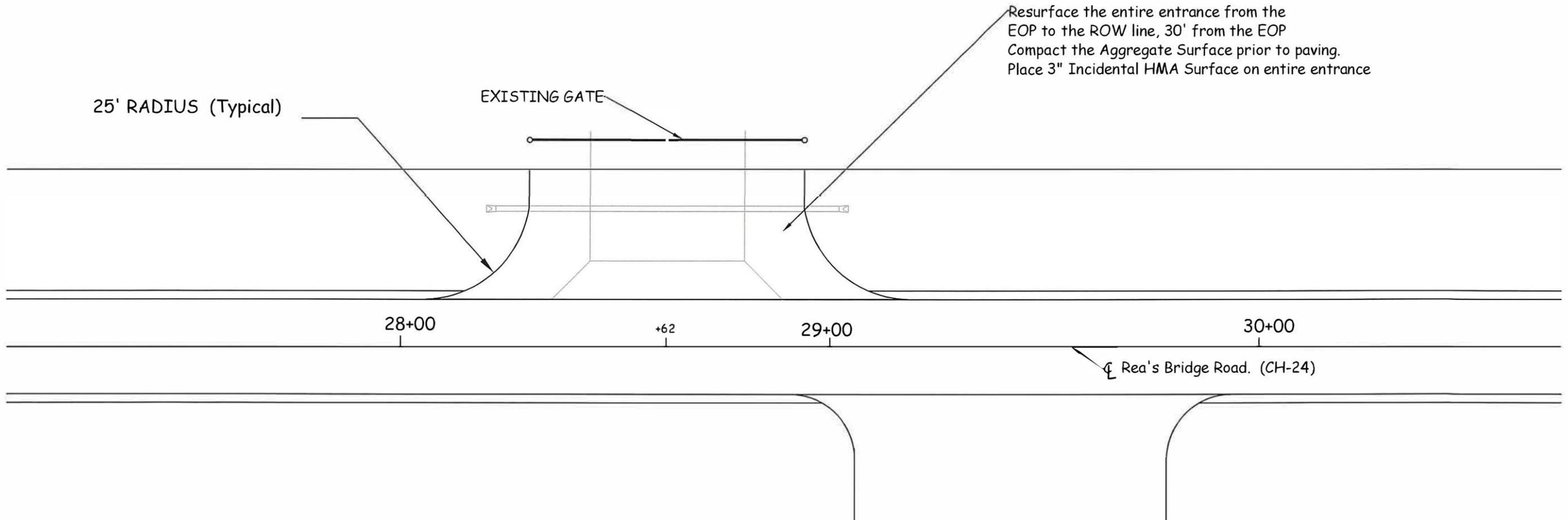
Note: Before bituminous prime coat, all entrances shall be cleaned to the satisfaction of the engineer. The contractor shall make an ossestive effort to accomplish this task, which shall be paid incidental to bituminous prime coat.

Note: If bituminous wedge is placed on an existing bituminous surface, then HMA Surface Removal (Special) will be used to cut a butt joint. If wedge is placed on an existing aggregate surface, then any necessary surface preparation shall not be measured for payment, but shall be included in the cost of HMA Surface Removal (Special)

	Design by	AJM	Rea's Bridge Road (C.H. 24)	Contract # 95880
	CAO by	AJM	Butt Joint and Entrance Details	Section # 20-00300-00-RS
	Checked by			TOTAL SHEETS
	Date	7-22-20	Macon County Highway - Engineering Division	13

ENTRANCE DETAIL

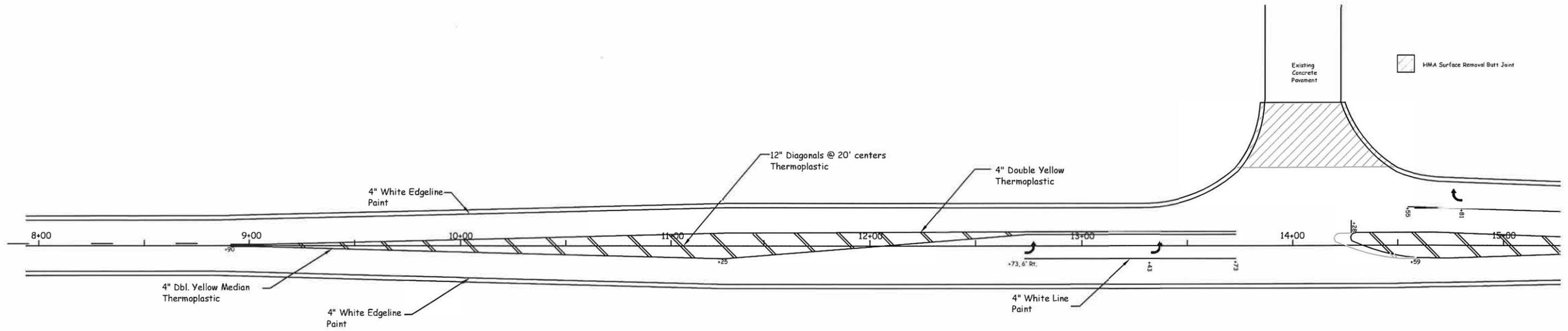
Lt. 28+62



FLEET PRIDE

	Design by:	<i>AJM</i>	<i>Rea's Bridge Road (C.H. 24)</i>	<i>Contract # 95880</i>	
	CAD by:	<i>AJM</i>	<i>Entrance Detail</i>	<i>Section # 20-00300-00-RS</i>	
	Checked by:			TOTAL SHEETS	SHEET NO.
	Date:	<i>7-22-20</i>	<i>Macon County Highway - Engineering Division</i>	13	10

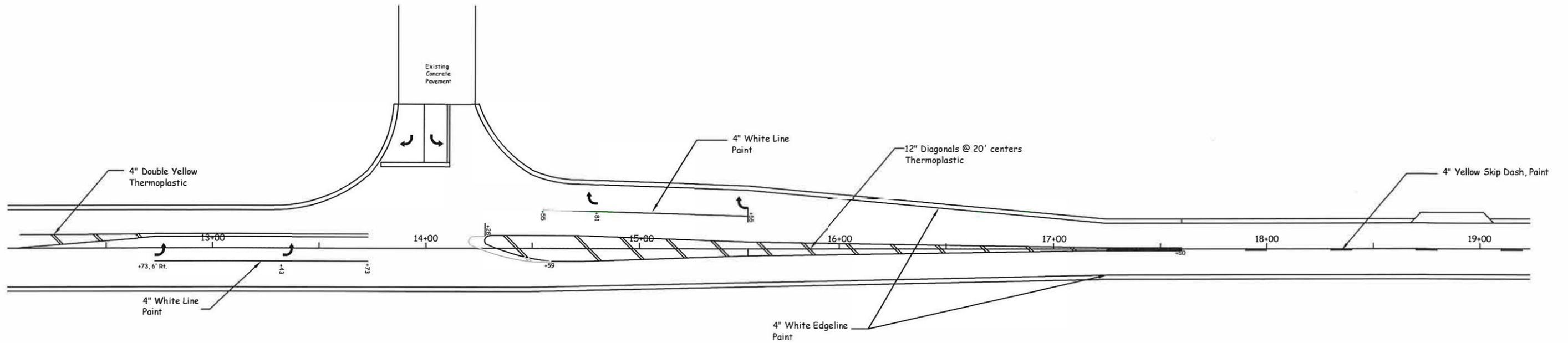
Intersection & Striping Detail



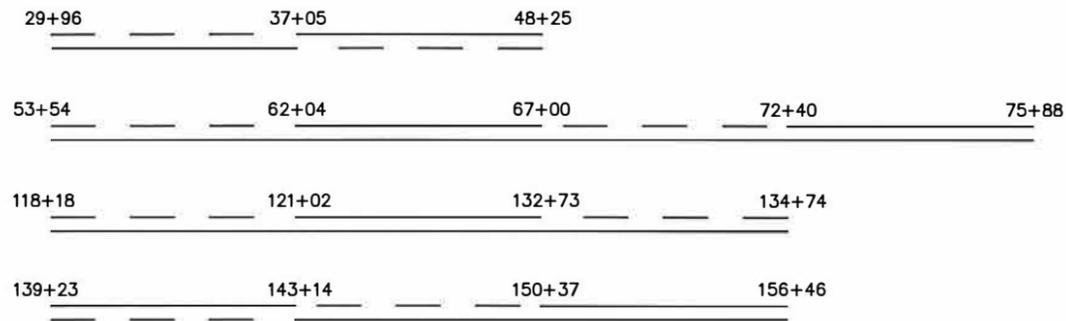
	Design by:	<i>AJM</i>	<i>Rea's Bridge Road (C.H. 24)</i>	<i>Contract # 95880</i>	
	CAD by:	<i>AJM</i>	<i>Striping & Layout Plan View</i>	<i>Section # 20-00300-00-R5</i>	
	Checked by:			TOTAL SHEETS	SHEET NO.
	Date:	<i>7-22-20</i>	<i>Macon County Highway - Engineering Division</i>	13	11



Intersection & Striping Detail

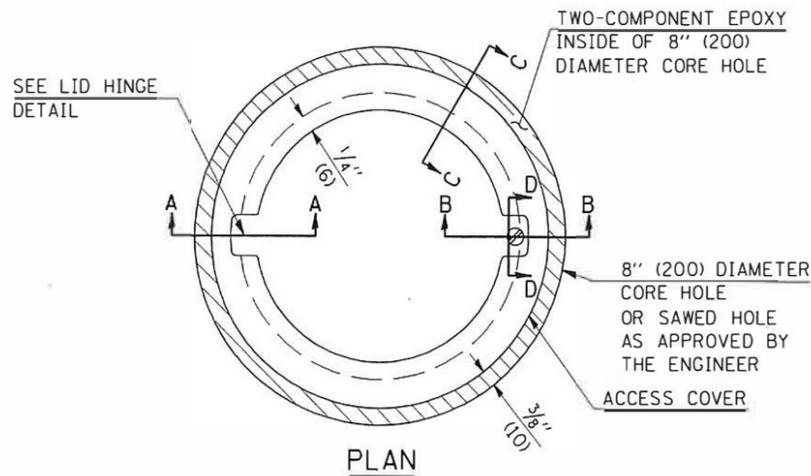


NO PASSING ZONES



	Design by:	<i>AJM</i>	<i>Rea's Bridge Road (C.H. 24)</i>	<i>Contract # 95880</i>	
	CAD by:	<i>AJM</i>	<i>Striping & Layout Plan View</i>	<i>Section # 20-00300-00-R5</i>	
	Checked by:			TOTAL SHEETS	SHEET NO.
	Date:	<i>7-22-20</i>	<i>Macon County Highway - Engineering Division</i>	13	12

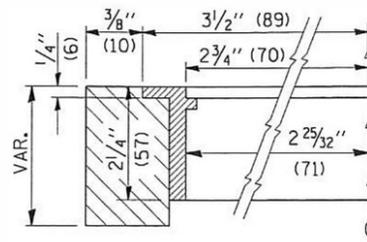
TO BE INSTALLED IN RIGID OR COMPOSITE PAVEMENT FOR PRESERVING LAND SURVEY MONUMENTS (SECTION OR SUBSECTION CORNERS)



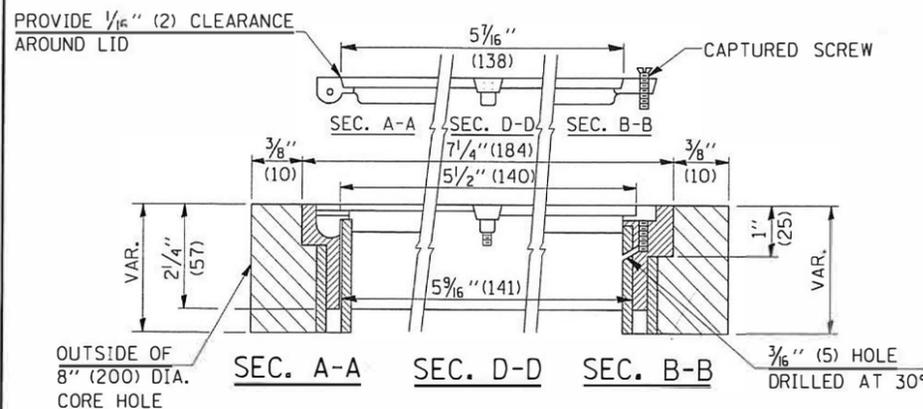
LEGEND

- ALUMINUM CASTING
- 5" (125) OR 6" (150) P.V.C. PIPE
- TWO-COMPONENT EPOXY

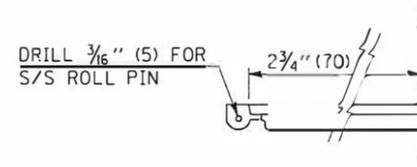
T = THICKNESS OF PAVEMENT STRUCTURE
H = THE THICKNESS OF THE SUB-BASE GRANULAR + 1" (25)



SECTION C-C



ELEVATION



LID HINGE DETAIL

SPECIFICATIONS FOR ACCESS COVER FOR USE WITH SURVEY MARKER VAULT(S) AND SURVEY MARKER COVER ASSEMBLY(S): THE ACCESS COVER WILL BE CAST FROM A SPECIAL ALUMINUM ALLOY THAT IS COMPARABLE TO BRONZE IN HARDNESS. THE ACCESS COVER SHALL BE SPECIALLY ENGINEERED AND DESIGNED TO PROVIDE A SNUG FIT, INCORPORATING EQUIDISTANT LOCKING RIDGES, INSIDE A STANDARD 6" (150 mm) DIAMETER, OR OUTSIDE A STANDARD 5" (125 mm) DIAMETER, SCHEDULE 40 PVC PIPE. THE ACCESS COVER SHALL HAVE SPECIAL UNIFORM 1" (25 mm) THICK TOP SURFACE TO PERMIT INFORMATION TO BE EASILY MACHINE-STAMPED INTO IT. THE ACCESS COVER SHALL INCLUDE A STAINLESS CAPTURED SCREW AND AN OPPOSING RECESSED HINGE ASSEMBLY AS ITS LOCKING MECHANISM. THE ACCESS COVER SHALL INCORPORATE A SPECIAL ACCESS HOLE FOR CLEANING AND DRAINAGE, DRILLED AT 30° INSIDE THE RING OF THE ACCESS COVER, TO THE DRILLED AND TAPPED HOLE PROVIDED FOR THE STAINLESS CAPTURED SCREW. COMPOSITION: ALUMINUM 92-93%; MAGNESIUM 6.5-7.5%. STRENGTH: YIELD - 19,000-21,000 PSI (131-145 MPa); TENSILE - 38,000-44,000 PSI (262-303 MPa); ELONGATION - 10-15% IN 2" (50 mm). SPECIFICATIONS: ALLOY 535.0; 00-A-601Es. NO EXCEPTIONS.

RE-BAR-SURVEY MARKER, TYPE I, (SPECIAL) TO BE FURNISHED BY THE CONTRACTOR AND SET BY AN ILLINOIS PROFESSIONAL LAND SURVEYOR (SEE SPECIAL DETAIL SHEET FOR ALUMINUM TABLET AND RE-BAR SPECIFICATIONS).

BILL OF MATERIAL

ALUMINUM CASTING OF THE DIMENSIONS AND SPECIFICATIONS SHOWN OR OTHER SUBJECT TO ENGINEER'S APPROVAL OF SHOP DRAWINGS, 5" OR 6" (125 mm OR 150 mm) DIAMETER P.V.C. PIPE, SCHEDULE 40, ALUMINUM TABLET, STAMPED IN ACCORDANCE WITH STANDARD 667101. 5/8" X 48" (#15 X 1.2 m) RE-BAR, EPOXY AND FA-01/02 AGGREGATE.

GENERAL NOTES

1. ALUMINUM CASTING SHALL BE EITHER PLACED OVER A 5" (125 mm) P.V.C. PIPE OR INSIDE OF A 6" (150 mm) P.V.C. PIPE.
2. BACKFILL WITH FINE AGGREGATE - FA-01/02.
3. WORK SHALL NOT START ON THIS ITEM UNTIL THE FINAL LIFT OF SURFACE HAS BEEN COMPLETED.
4. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR SURVEY MARKER VAULT WHICH PRICE SHALL INCLUDE ALL LABOR AND MATERIAL AS SPECIFIED INCLUDING CORING, EPOXY AND FA-01/02 AGGREGATE AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
5. THE CASTING SHALL BE ANCHORED IN THE 8" (200 mm) DIAMETER CORE HOLE WITH TWO-COMPONENT EPOXY CONFORMING TO APPLICABLE PORTIONS OF ARTICLE 1025.01 OF THE STANDARD SPECIFICATIONS.
6. ALL SURVEY MARKER (VAULTS) SHALL BE PLACED 1/4" (6 mm) ± BELOW THE FINAL SURFACE.
7. THE 8" (200 mm) DIAMETER CORE HOLE SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. X0301232

FILE NAME =	USER NAME = steffanmk	DESIGNED =	REVISED = 11/06
c:\pwork\pwork\DDT\STEFFENMK\d0125864\	301232.dgn	DRAWN =	REVISED =
	PLOT SCALE = 1/8" = 1'-0"	CHECKED =	REVISED =
	PLOT DATE = 2/5/2010	DATE =	REVISED =

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SURVEY MARKER VAULT

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	20-00300-00-RS	MACON	13	13
CONTRACT NO. 95880				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		