

ROUTE NO	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
F.A.U. 8896	09-00018-01-RS	MADISON	1	7
FEDERAL AID PROJECT				
CONTRACT NO. 97410				

# VILLAGE OF GLEN CARBON ARRA PROJECT FAU 8896 - GLEN CARBON ROAD RESURFACING

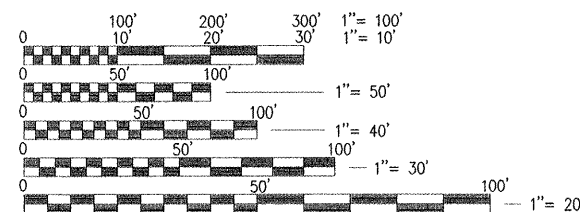
PROJECT NO. ARA-5011(272)  
JOB NO. C-98-351-09  
SECTION 09-00018-01-RS

### INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES AND SUMMARY OF QUANTITIES
3	SCHEDULE OF QUANTITIES
4	TYPICAL SECTIONS
5-7	PLAN SHEETS

### STANDARDS

- 424001-05
- 701306-02
- 701311-03
- 701501-05
- 701901-01
- 780001-02
- 886001-01
- 886006-01

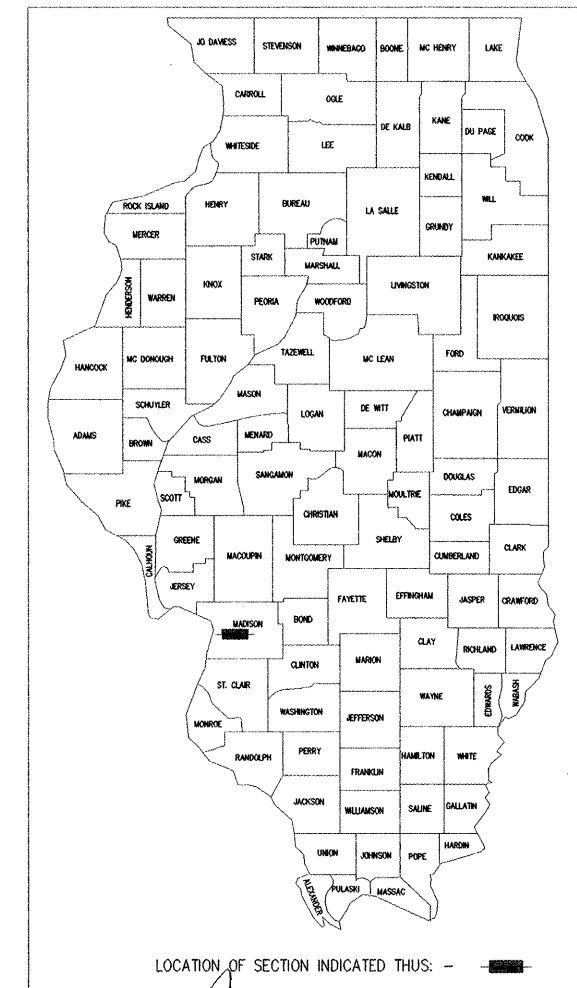


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES, REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

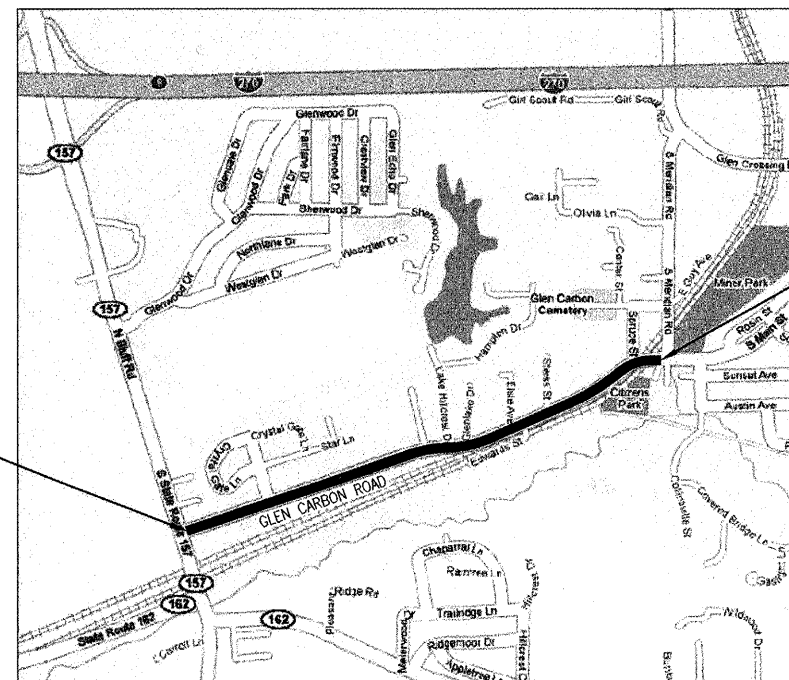
F.A.U. ROUTE 8896 DESIGN DESIGNATION  
ROADWAY CLASSIFICATION = MINOR ARTERIAL  
DESIGN SPEED = 45 M.P.H.  
CURRENT TRAFFIC (ADT) = 6,600

LIST OF UTILITIES  
NONE

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



BEGIN PROJECT  
STA 0+00.00

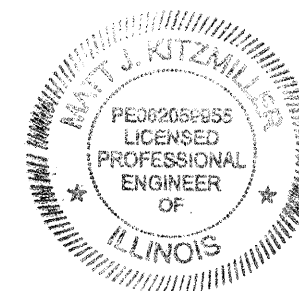


END PROJECT  
STA 55+48.89

### LOCATION MAP

NET LENGTH PROJECT = 5,548.89 FEET (1.051 MILES)

\*NOT TO SCALE



APPROVED: *[Signature]*  
MAYOR OF GLEN CARBON

PASSED: 11-16 2009  
*[Signature]*  
DISTRICT 8 ENGINEER OF LOCAL ROADS

RELEASING FOR BID BASED ON LIMITED REVIEW: 11-16 2009  
*[Signature]*  
MARY C. LAMIE, P.E.  
DEPUTY DIRECTOR OF HIGHWAYS  
REGION FIVE ENGINEER

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

*[Signature]* 11/5/09  
MATT J. KITZMILLER, P.E. NO. 062-059955 DATE  
EXPIRES NOVEMBER 30, 2011



THOUVENOT, WADE & MOERCHEN, INC.

GENERAL NOTES

NO UTILITY CONFLICTS ARE ANTICIPATED AS A PART OF THIS PROJECT, HOWEVER THE ENGINEER AND OWNER FURTHER DO NOT WARRANT THAT ALL UTILITIES HAVE BEEN ILLUSTRATED ON THESE DOCUMENTS. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONTACTING J.U.L.I.E. FOR FIELD VERIFICATION OF ALL UTILITIES ON THE SITE PRIOR TO COMMENCEMENT OF CONSTRUCTION. IF THE CONTRACTOR DETERMINES THAT SUBSTANTIAL DISCREPANCY EXISTS BETWEEN FIELD VERIFIED UTILITIES AND THESE PLANS WHICH WOULD SIGNIFICANTLY AFFECT THE FUNCTION, COST, OR PERFORMANCE OF THE PROJECT, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER FOR CLARIFICATION AND PROJECT DIRECTION.

ALL TRAFFIC CONTROL INCLUDING BUT NOT LIMITED TO, WORK ZONE, TEMPORARY, AND PERMANENT, SHALL BE FURNISHED, INSTALLED, MAINTAINED, RELOCATED, AND/OR REMOVED ACCORDING TO SECTION 700 OF THE LATEST EDITION OF THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

TRAFFIC CONTROL SIGNS SHALL BE 48" FLUORESCENT ORANGE.

THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE VILLAGE OF GLEN CARBON AT LEAST FORTY-EIGHT (48) HOURS IN ADVANCE PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES OR WORK REQUIRING INSPECTION OR APPROVAL BY THE AFFECTED UNITS OF GOVERNMENT.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS:

MIXTURE USE	SURFACE COURSE	BINDER COURSE	SHOULDERS
AC/PG	PG 64-22	PG 64-22	PG 64-22
RAP% (MAX)	10%	10%	10%
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=70
MIX COMPOSITION (GRADATION MIXTURE)	IL 9.5 OR IL 12.5		
FRICTION AGG	MIXTURE D	MIXTURE B	MIXTURE D

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	QTY
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	67
40600300	AGGREGATE (PRIME COAT)	TON	53
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	57
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	9
40600990	TEMPORARY RAMP	SQ YD	239
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	1,397
42400800	DETECTABLE WARNINGS	SQ FT	85
44000155	HOT-MIX ASHALT SURFACE REMOVAL, 1 1/2"	SQ YD	21,061
44300100	AREA REFLECTIVE CRACK CONTROL TREATMENT	SQ YD	15,363
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	7
48203003	HOT-MIX ASPHALT SHOULDERS, 1 1/2"	SQ YD	5,226
67100100	MOBILIZATION	L SUM	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1
70103700	TRAFFIC CONTROL COMPLETE	L SUM	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	944
70300200	TEMPORARY PAVEMENT MARKING	FOOT	6,582
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	2,542
* 78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	125
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	37,573
* 78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	178
* 78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	307
* 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	71
* 88600100	DETECTOR LOOP, TYPE 1	FOOT	500

\* SPECIALTY ITEMS

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MOERCHEN, INC.**  
ENGINEERS ♦ SURVEYORS ♦ PLANNERS



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PROFESSIONAL REGISTRATIONS	LICENSE NO.
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PROFESSIONAL ENGINEERING CORP.	62-035370
PROFESSIONAL STRUCTURAL ENGR. CORP.	81-005202
ILLINOIS PROF. LAND SURVEYING CORP.	048-000029
MISSOURI PROFESSIONAL ENGR. CORP.	NC 001528
MISSOURI LAND SURVEYING CORP.	NC 000346

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Signature: \_\_\_\_\_  
Signature Date: \_\_\_\_\_  
Expiration Date: \_\_\_\_\_

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TITLE:  
**GENERAL NOTES AND  
SUMMARY OF QUANTITIES**

PROJECT:  
**SECTION 09-00018-01-RS  
GLEN CARBON ROAD RESURFACING  
VILLAGE OF GLEN CARBON  
MADISON COUNTY, ILLINOIS**

REV.	DATE	DESCRIPTION
△		
△		
△		

DRAWN BY: MJK	<b>2</b>
DESIGNED BY: MJK	
CHECKED BY: RSD	
APPROVED BY: RSD	
PROJECT NUMBER: 07-080125	OF 7 SHEETS
<input checked="" type="checkbox"/> ISSUED FOR REVIEW	<input type="checkbox"/> ISSUED FOR BIDDING
<input type="checkbox"/> ISSUED FOR CONSTR.	<input type="checkbox"/> RECORD DRAWING

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**PAVING SCHEDULE**

LOCATION	HOT-MIX ASPHALT SURFACE REMOVAL, 1.5"	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	TEMPORARY RAMP	HOT-MIX ASPHALT SURFACE COURSE, MIX 'D', N70	LEVELING BINDER (MACHINE METHOD), N70	HOT-MIX ASPHALT SHOULDERS, 1.5"	AGGREGATE WEDGE SHOULDER, TYPE B	AREA REFLECTIVE CRACK CONTROL TREATMENT	AGGREGATE (PRIME COAT)	BIT. MATERIALS (PRIME COAT)
	SQ YD	SQ YD	SQ YD	TON	TON	SQ YD	TON	SQ YD	TON	GALLON
0+00 TO 55+48.89 LT	7,758.07		62.22	679.00				7,870.07	19.40	
0+00 TO 55+48.89 RT	7,375.76		38.33	646.02				7,492.50	18.44	
0+46.82 TO 55+48.89 RT	2,990.19					3,037.85			7.48	
3+46.22 TO 31+77.85 LT	1,431.82					1,431.82			3.58	
40+55.54 TO 55+48.89 LT	708.04					755.70			1.77	
52+82.17 TO 53+67.95					56.32		6.35			
WILLIAMSBURG LN.	41.83		41.83	3.61					0.10	3.14
LAKE HILLCREST DR.	183.02		13.33	15.79					0.46	13.73
GLENLAKE DR.	151.06		13.33	13.03					0.38	11.33
ELSIE AVE.	39.48		9.17	3.41					0.10	2.96
EDWARDS ST.	38.92		8.89	3.36					0.10	2.92
STEISS ST.	68.22		8.61	5.88					0.17	5.12
SPRUCE ST.	206.70		22.56	17.83					0.52	15.50
MCT BIKE TRAIL, RT		9.00	5.56	3.00					0.03	7.00
DAENZER DR.	67.11		15.13	5.79					0.17	5.03
<b>TOTAL</b>	<b>21060.22</b>	<b>9.00</b>	<b>238.96</b>	<b>1,396.71</b>	<b>56.32</b>	<b>5,225.37</b>	<b>6.35</b>	<b>15,362.57</b>	<b>52.68</b>	<b>66.73</b>

\*ALL TEMPORARY RAMP SHALL BE 5' IN LENGTH

**PAINT PAVEMENT MARKINGS**

STATION	STATION	DESCRIPTION	4" SKIP DASH YELLOW LINE (10'-30')	4" SOLID YELLOW LINE	4" SOLID DOUBLE YELLOW CENTERLINE	4" SOLID WHITE LINE	6" SOLID WHITE LINE	12" SOLID WHITE LINE	24" SOLID WHITE LINE	LETTERS AND SYMBOLS (WHITE)
			FEET	FEET	FEET	FEET	FEET	FEET	FEET	FEET
0+00	TO 55+48.89 LT	EDGE LINE				5182.16				
0+00	TO 55+48.89 RT	EDGE LINE				5544.69				
0+35.40 LT		STOP BAR							35.16	
0+35.40	TO 1+70.40 LT	LANE LINE				135.00				
0+35.40	TO 1+70.40 LT	TURN ARROWS								62.40
0+35.40	TO 4+34.00	CENTERLINE			797.20					
4+34.00	TO 15+53.69 LT	CENTERLINE		1518.29						
4+34.00	TO 15+53.69 RT	CENTERLINE	380.00							
15+53.69	TO 25+12.77	CENTERLINE	240.00							
25+12.77	TO 31+24.92 LT	CENTERLINE	150.00							
25+12.77	TO 31+24.92 RT	CENTERLINE		612.15						
31+24.92	TO 42+28.87	CENTERLINE			2207.90					
42+28.87	TO 50+67.57 LT	CENTERLINE	210.00							
42+28.87	TO 50+67.57 RT	CENTERLINE		838.70						
50+67.57	TO 55+48.89	CENTERLINE			962.44					
53+64.97 LT & RT		CROSSWALK				89.00	148.32			
MCT BIKE TRAIL, RT		STOP BAR/CL		8.00			5.00			
<b>SUB-TOTAL:</b>			980.00	2977.14	3967.54	10861.85	89.00	153.32	35.16	62.40
<b>TOTAL FOR 1 COAT:</b>					18786.53	89.00	153.32	35.16	62.40	
<b>TOTAL FOR 2 COATS:</b>					<b>37573.06</b>	<b>178.00</b>	<b>306.64</b>	<b>70.32</b>	<b>124.80</b>	

**SCHEDULE OF QUANTITIES**

**SECTION 09-00018-01-RS**  
**GLEN CARBON ROAD RESURFACING**  
**VILLAGE OF GLEN CARBON**  
**MADISON COUNTY, ILLINOIS**

REV.	DATE	DESCRIPTION
△		
△		
△		

**DRAWN BY:** MJK      **SHEET**

**DESIGNED BY:** MJK      **3**

**CHECKED BY:** RSD

**APPROVED BY:** RSD

**PROJECT NUMBER:** 107-080125      **OF 7 SHEETS**

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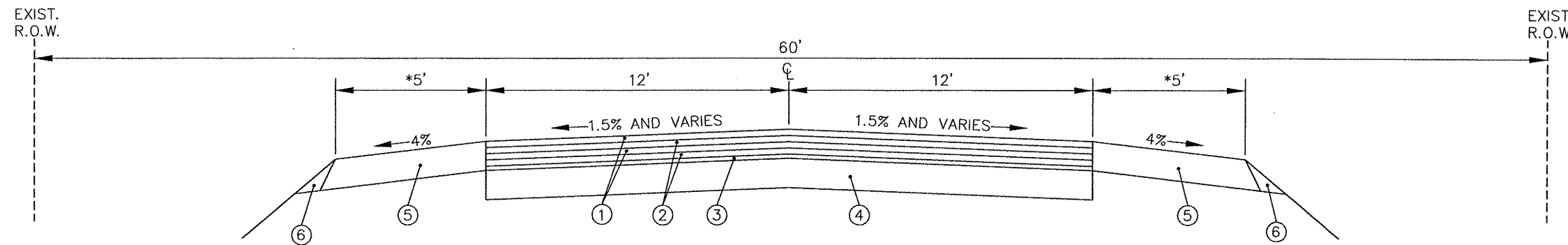
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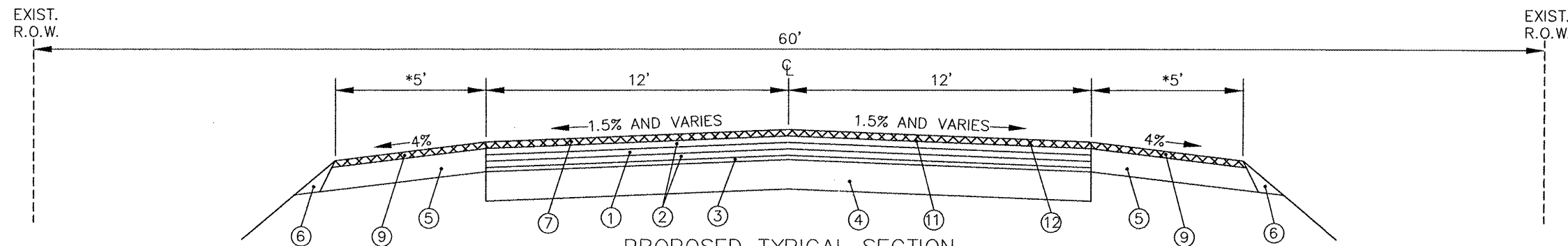
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**EXISTING TYPICAL SECTION**

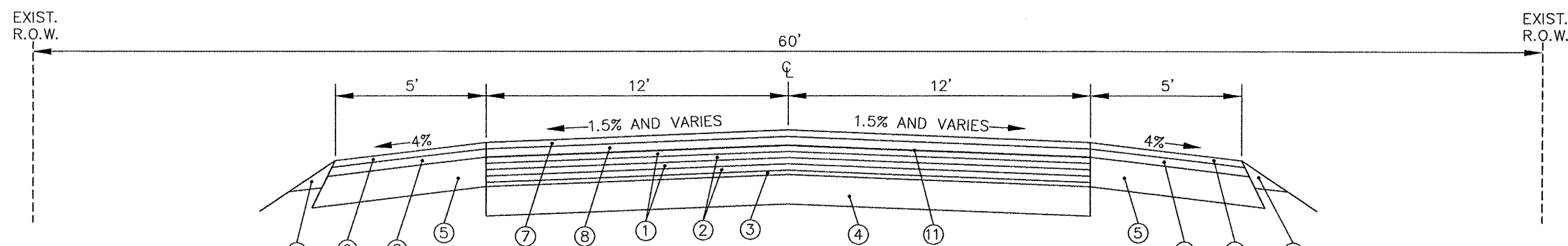
STA 0+00 TO STA 55+48.89  
\*(CONC. C&G STA 0+00 TO STA 3+47.52 LT  
CONC. C&G STA 0+00 TO STA 0+47.51 RT  
CONC. GUTTER STA 32+39.99 TO STA 40+57.08 LT  
CONC. C&G STA 54+02.60 TO STA 55+48.89 LT)

- LEGEND**
- ① EXISTING BITUMINOUS CONCRETE SURFACE COURSE, 1.5"
  - ② EXISTING BITUMINOUS CONCRETE BINDER COURSE, 1.5"
  - ③ EXISTING LEVELING BINDER, 1"
  - ④ EXISTING BITUMINOUS CONCRETE BASE COURSE, 8.5"±
  - ⑤ EXISTING BITUMINOUS SHOULDER
  - ⑥ EXISTING AGGREGATE WEDGE
  - ⑦ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX 'D', N70, 1.5"
  - ⑧ PROPOSED LEVELING BINDER (MACHINE METHOD), N70, MAX. DEPTH 4.5"
  - ⑨ PROPOSED HOT-MIX ASPHALT SHOULDERS, 1.5"
  - ⑩ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
  - ⑪ PROPOSED AREA REFLECTIVE CRACK CONTROL TREATMENT
  - ⑫ PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1.5"



**PROPOSED TYPICAL SECTION**

STA 0+00 TO STA 52+82.17  
STA 53+67.95 TO STA 55+48.89  
\*(DO NOT DISTURB EXISTING CURB AND/OR GUTTER)  
(EXISTING DRIVING LANES AND SHOULDERS TO BE MILLED AT 1.5" DEPTH)



**PROPOSED TYPICAL SECTION**

STA 52+82.17 TO STA 53+67.95

**TYPICAL SECTIONS**

**SECTION 09-00018-01-RS**  
**GLEN CARBON ROAD RESURFACING**  
**VILLAGE OF GLEN CARBON**  
**MADISON COUNTY, ILLINOIS**

REV.	DATE	DESCRIPTION
▲		
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DRAWN BY: MJK	<b>4</b>
DESIGNED BY: MJK	
CHECKED BY: RSD	
APPROVED BY: RSD	
PROJECT NUMBER: T07-080125	
OF 7 SHEETS	
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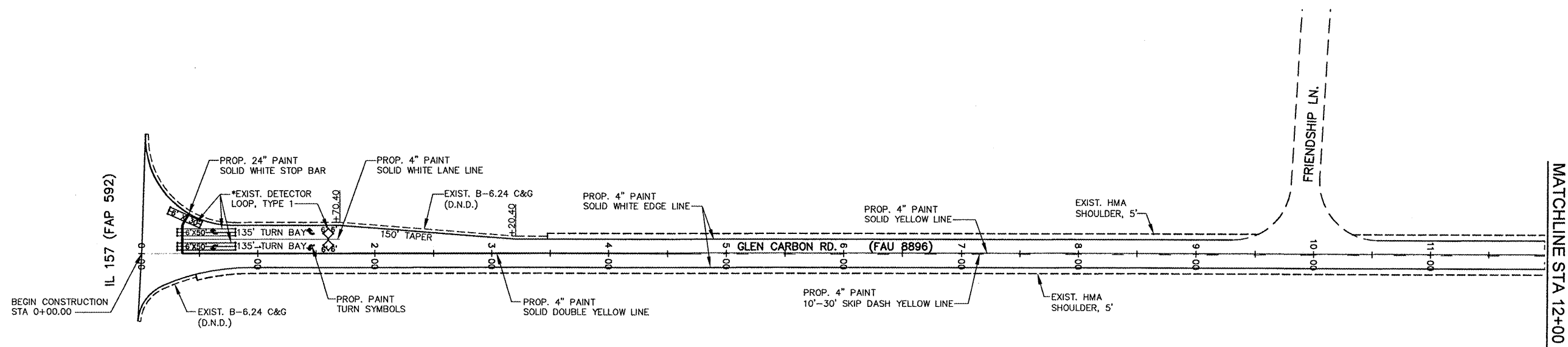
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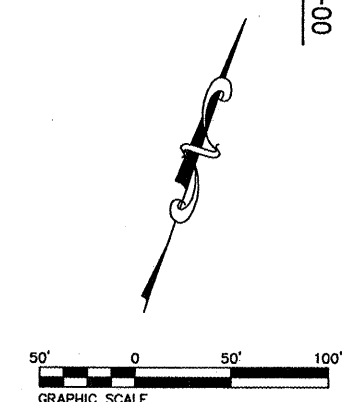
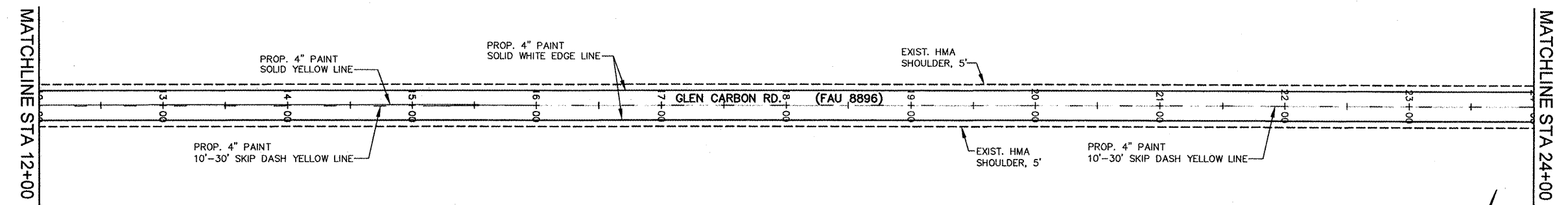
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\*REPLACE EXISTING DETECTOR LOOP, TYPE 1  
IF DISTURBED DURING HOT-MIX ASPHALT SURFACE REMOVAL.



**ROADWAY PLAN**

TITLE: \_\_\_\_\_

PROJECT: **SECTION 09-00018-01-RS  
GLEN CARBON ROAD RESURFACING  
VILLAGE OF GLEN CARBON  
MADISON COUNTY, ILLINOIS**

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<input type="checkbox"/> ISSUED FOR CONSTR.	<input type="checkbox"/> RECORD DRAWING



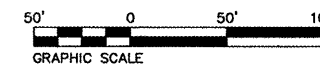
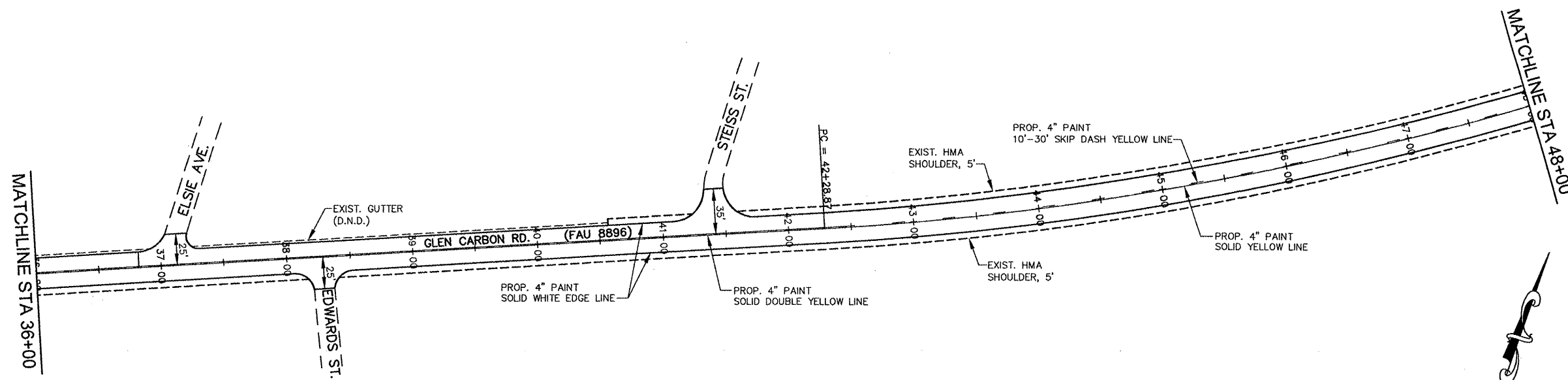
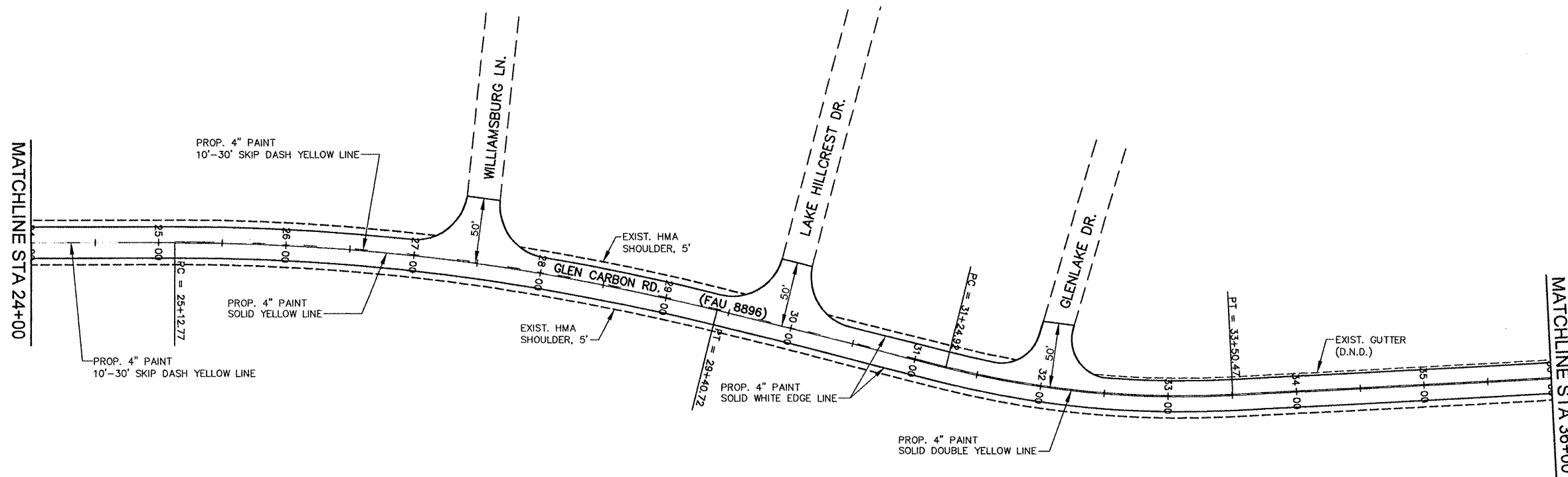
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PROFESSIONAL ENGINEERING CORP.	62-035370
PROFESSIONAL STRUCTURAL ENGR. CORP.	81-005202
ILLINOIS PROF. LAND SURVEYING CORP.	048-000029
MISSOURI PROFESSIONAL ENGR. CORP.	NC 001528
MISSOURI LAND SURVEYING CORP.	NC 000346

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Signature: \_\_\_\_\_  
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I hereby confirm that the document herein to be submittted by my seal is restricted to this sheet, and I hereby disclaim any responsibility for all other drawings, specifications, estimates, reports or other documents or instruments relating to or intended to be utilized for any other part of the architectural, engineering or survey project.



TITLE: ROADWAY PLAN  
PROJECT: SECTION 09-00018-01-RS  
GLEN CARBON ROAD RESURFACING  
VILLAGE OF GLEN CARBON  
MADISON COUNTY, ILLINOIS

REV.	DATE	DESCRIPTION
▲		
▲		
▲		

DRAWN BY: MJK	SHEET
DESIGNED BY: MJK	<b>6</b>
CHECKED BY: RSD	
APPROVED BY: RSD	
PROJECT NUMBER: T07-080125	
<input checked="" type="checkbox"/> ISSUED FOR REVIEW	<input type="checkbox"/> ISSUED FOR BIDDING
<input type="checkbox"/> ISSUED FOR CONSTR.	<input type="checkbox"/> RECORD DRAWING



**THOUVENOT,  
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ENGINEERS ♦ SURVEYORS ♦ PLANNERS



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ILLINOIS PROFESSIONAL DESIGN FIRM	184-001220
PROFESSIONAL ENGINEERING CORP.	62-035370
PROFESSIONAL STRUCTURAL ENGR. CORP.	81-002802
ILLINOIS PROF. LAND SURVEYING CORP.	048-000028
MISSOURI PROFESSIONAL ENGR. CORP.	NC 001528
MISSOURI LAND SURVEYING CORP.	NC 000346

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ROADWAY PLAN

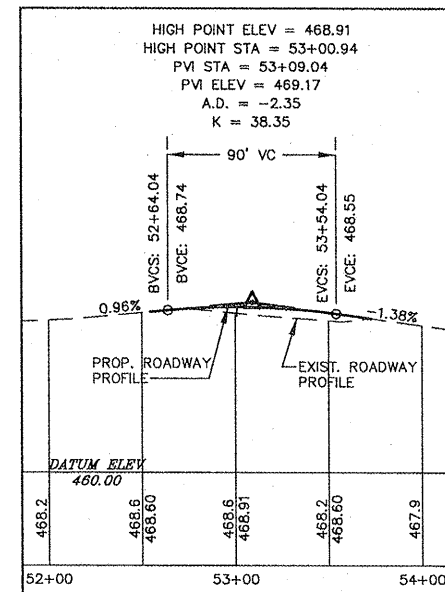
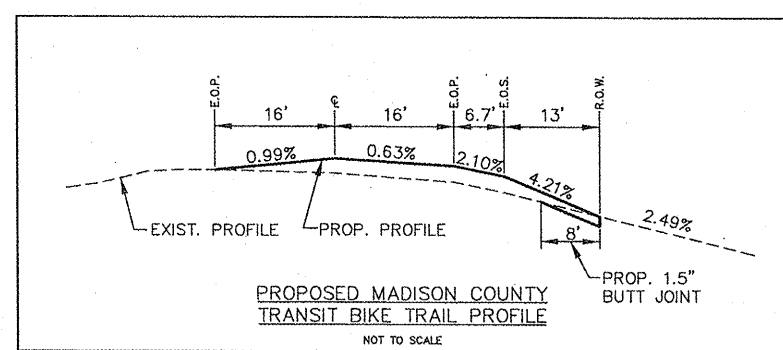
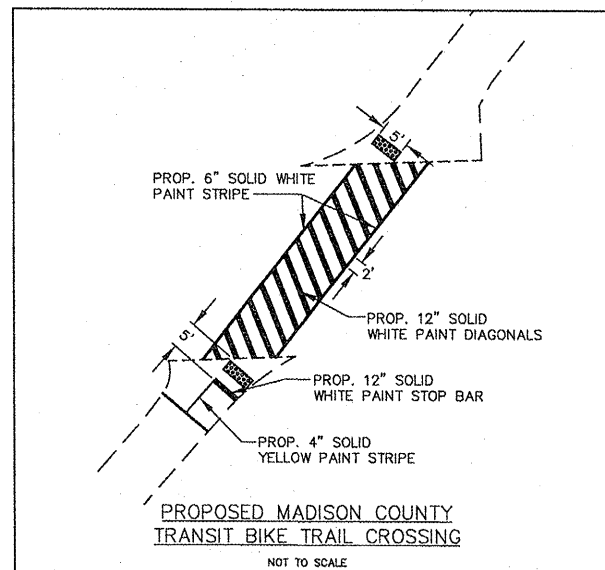
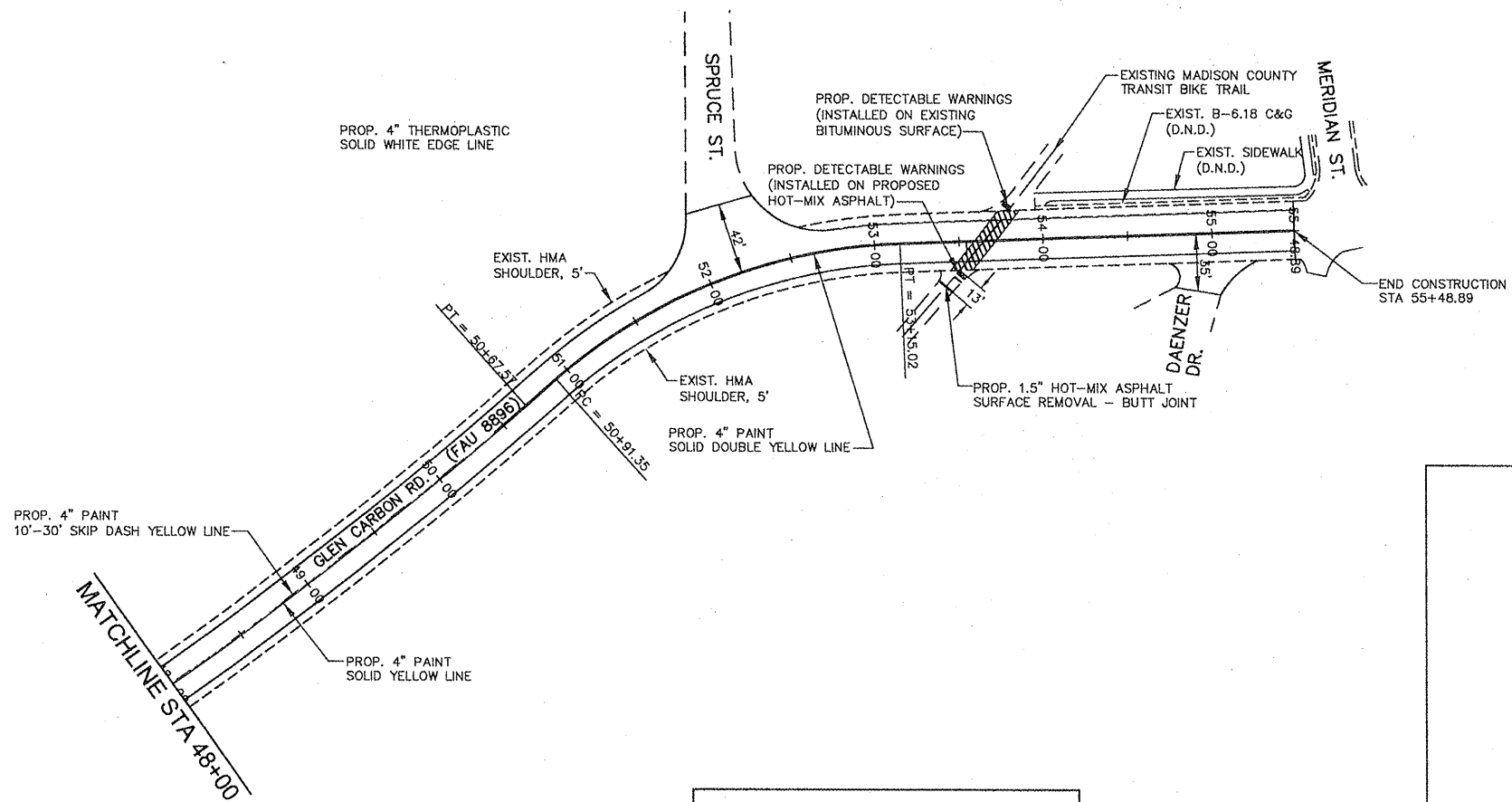
SECTION 09-00018-01-RS  
GLEN CARBON ROAD RESURFACING  
VILLAGE OF GLEN CARBON  
MADISON COUNTY, ILLINOIS

TITLE

REV	DATE	DESCRIPTION
▲		
▲		
▲		

DRAWN BY: MJK	SHEET
DESIGNED BY: MJK	
CHECKED BY: RSD	7
APPROVED BY: RSD	

PROJECT NUMBER: 107-080125 OF 7 SHEETS  
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 ISSUED FOR CONSTR.  RECORD DRAWING



PROPOSED PROFILE IMPROVEMENT  
ON GLEN CARBON ROAD  
STA 52+54.45 TO STA 53+72.93

