

INDEX OF SHEETS 06-14-13 LETTING ITEM 181

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED
FAS 856 KASKASKIA ROAD (CH 1)
KASKASKIA CURVES SAFETY PROJECT
SECTION 12-00039-01-SP
PROJECT HRR-0856(109)
COUNTY OF MONROE
JOB NO. C-98-305-13

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 856 C.H. 1	12-00039 -01-SP	MONROE	4	1

FEDERAL AID PROJECT
CONTRACT 97519

LIST OF STANDARDS

	000001-06
TRAFFIC CONTROL	701201-04 701301-04 701306-03 701311-03 701501-06 701901-02 720001-01 720006-03 728001-01
SAFETY	642001-02
PAVEMENT MARKING	780001-03 781001-03
LOCAL ROADS	B.L.R.-24-2

SCALES

TYPICAL SECTIONS - NOT TO SCALE
DETAILS - NOT TO SCALE

DESIGN CLASSIFICATION

ROAD CLASSIFICATION = MAJOR COLLECTOR (RURAL)
2012 ADT = 2250
DESIGN SPEED 50 MPH
3R DESIGN GUIDELINES

UTILITIES

CALL J.U.L.I.E. BEFORE YOU DIG
800-892-0123

ELECTRIC:

MONROE COUNTY ELECTRIC CO-OP
WATERLOO, ILLINOIS 62298
(618) 939-7171

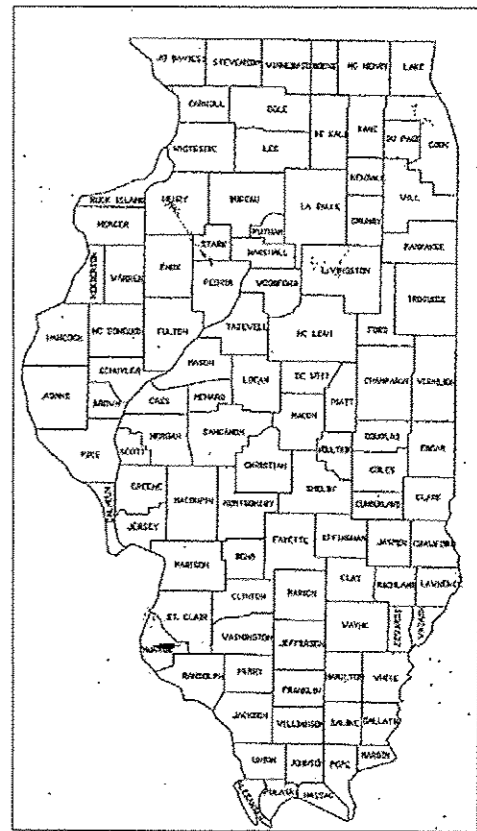
TELEPHONE:

HARRISONVILLE TELEPHONE COMPANY
WATERLOO, ILLINOIS 62298
(618) 939-6112

WATER:

FOUNTAIN WATER DISTRICT
VALMEYER, ILLINOIS 62295
(618) 935-2121

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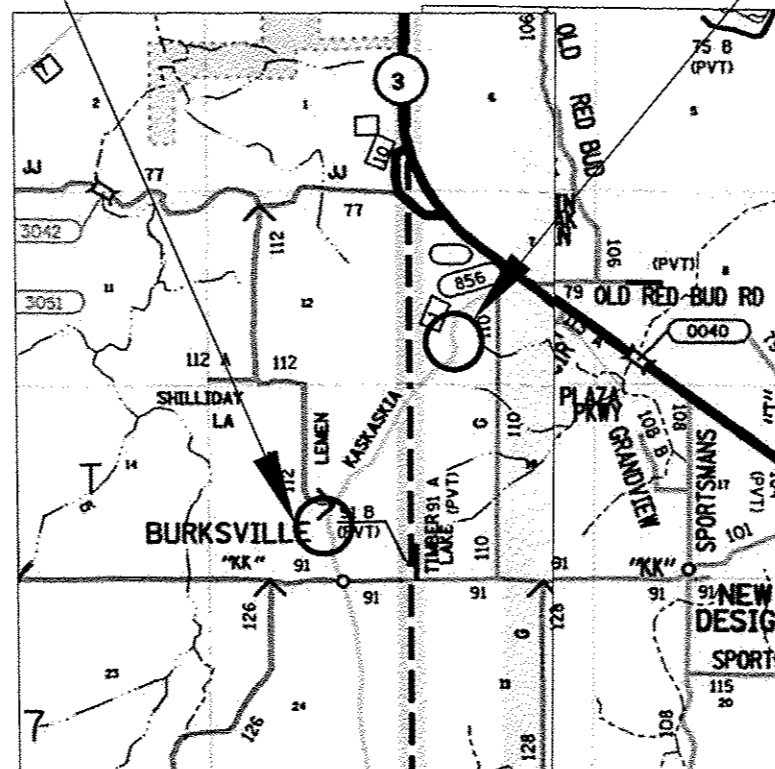


LOCATION OF SECTION INDICATED THUS

STA. 83+00 TO
STA. 89+00

PROJECT LOCATIONS

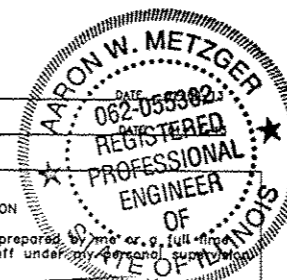
STA. 14+00 TO STA. 31+75
STA. EQUATION 32+41.18 BK. =
STA. 31+64.16 AH.



LOCATION MAP

SCALE: 1" = 1 MILE
NET LENGTH OF PROJECT 2452.02 FEET
0.464 MILES

DRAWN BY: BAF
CHECKED BY: AWM



DESIGN CERTIFICATION

These plans were prepared by me or a full-time member of my staff under my personal supervision.
County Engineer Date
Illinois Registered Professional Engineer No. 55382
Expiration Date: 11/30/13

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

Approved April 16 20 13

Monroe County Engineer
Monroe County Highway Department

Passed April 19 20 13

District B Engineer
Local Roads and Streets

Released for Bid Based on Limited Review

April 19 20 13

Deputy Director of Highways
Regional Engineer

Printed by Authority of the State of Illinois

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 856 C.H. 1	12-00039 -01-SP	MONROE	4	2

FEDERAL AID PROJECT
CONTRACT 97519

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2012 AND THE LATEST SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
- ALL TEMPORARY PAVEMENT MARKINGS WILL BE PLACED IN SUCH A MANNER SO AS NOT TO INTERFERE WITH THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- ACCESS SHALL BE PROVIDED FROM PRIVATE ENTRANCES AT ALL LOCATIONS DURING ALL STAGES.
- FACTORS USED FOR QUANTITY CALCULATIONS ARE AS FOLLOWS:
 ALL HOT-MIX ASPHALT - 112 LB/SQ YD PER 1" THICKNESS
 BITUMINOUS MATERIALS (PRIME COAT) OVER ASPHALT - 0.05 GAL/SQ.YD.
 AGGREGATE (PRIME COAT) - 3 LB/SQ YD
 ALL AGGREGATE - 2.05 TONS/CU.YD.
- NO OVERNIGHT LANE CLOSURES SHALL BE ALLOWED.
- TRAFFIC CONTROL SIGNS SHALL BE 48" FLOURESCENT ORANGE UNLESS OTHERWISE NOTED.
- THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE MONROE COUNTY HIGHWAY DEPARTMENT 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.
- SEEDING IS NOT ANTICIPATED - THE DISTURBANCE OF SOIL AS DETERMINED BY THE ENGINEER AND SUBSEQUENT SEEDING SHALL BE THE RESPONSIBILITY OF AND THE COST TO THE CONTRACTOR. SEEDING WILL CONFORM TO SEC. 250 AND SEC. 251 OF THE STANDARD SPECIFICATIONS AND MEET THE SATISFACTION OF THE ENGINEER.
- PAINT PAVEMENT MARKINGS SHALL MATCH EXISTING.
- SALVAGE: MILLINGS
- COMMITMENTS: NONE

SUMMARY OF QUANTITY

CODE	ITEM	UNIT	TOTAL QUANT.	HRRR QUANT.	LOCAL QUANT.
20200100	EARTH EXCAVATION	CU YD	274.4	274.4	0.0
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GAL	300.0	226.0	74.0
40600300	AGGREGATE (PRIME COAT)	TON	9.0	6.8	2.2
40600990	TEMPORARY RAMP	SQ YD	44.0	22.0	22.0
40603365	HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70	TON	550.0	410.0	140.0
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	4528.0	4528.0	0.0
48203100	HOT-MIX ASPHALT SHOULDERS	TON	553.0	553.0	0.0
64200116	SHOULDER RUMBLE STRIP, 16 INCH	FOOT	3704.0	3704.0	0.0
67100100	MOBILIZATION	L SUM	1.0	0.9	0.1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	488.0	368.0	120.0
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	9808.0	7408.0	2400.0
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	81.0	61.0	20.0
72000100	SIGN PANEL - TYPE 1	SQ FT	84.0	84.0	0.0
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	182.0	182.0	0.0
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	9808.0	7408.0	2400.0
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	141.0	141.0	0.0
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	47.0	47.0	0.0
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	1467.0	0.0	1467.0
X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1.0	0.9	0.1

* SPECIALTY ITEMS

HRRR - STA. 14+00 TO STA. 31+75
FEDERAL HIGH RISK RURAL ROADS FUNDING

LOCAL - STA. 83+00 TO STA. 89+00
LOCAL FUNDING ONLY

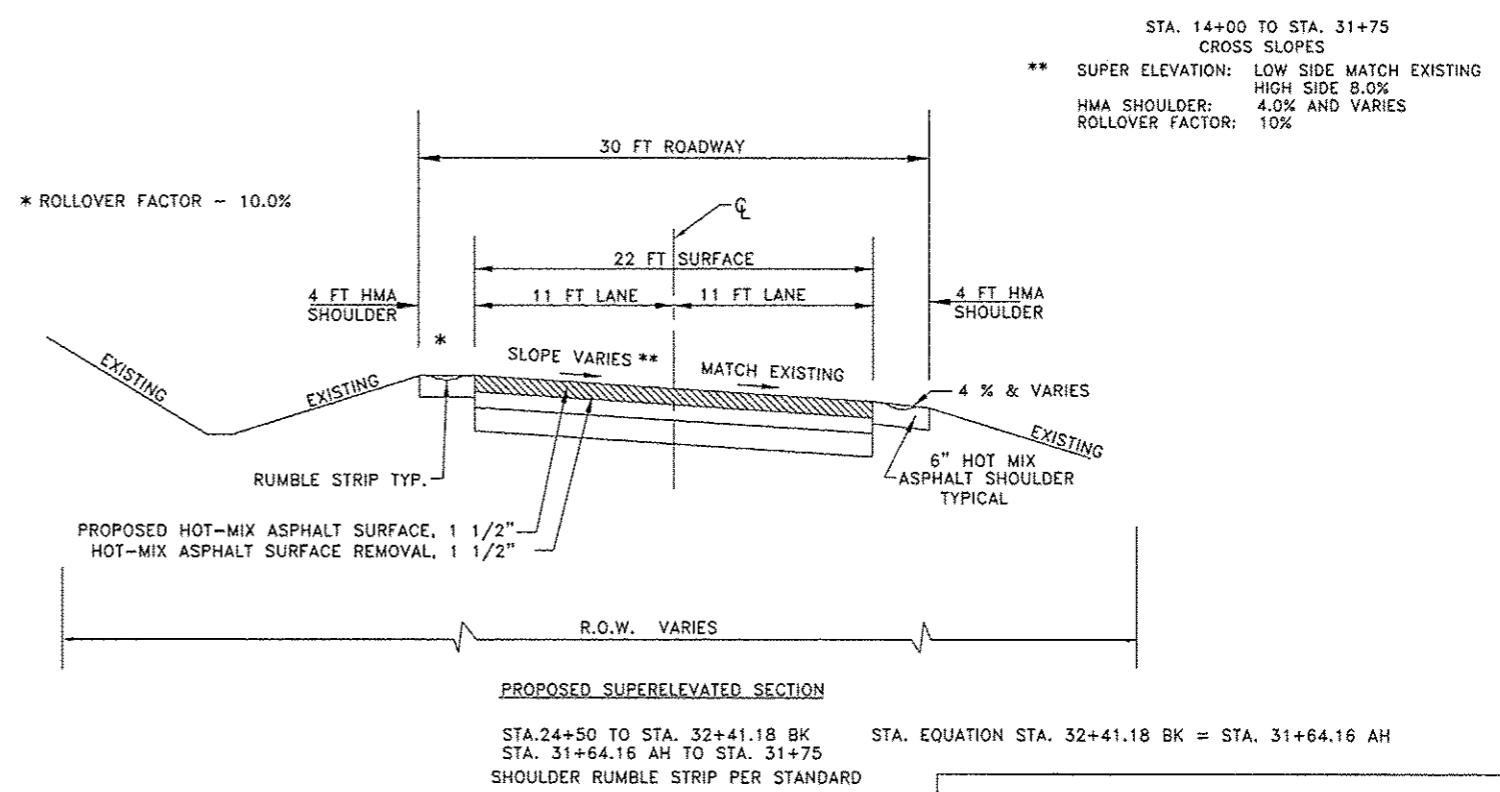
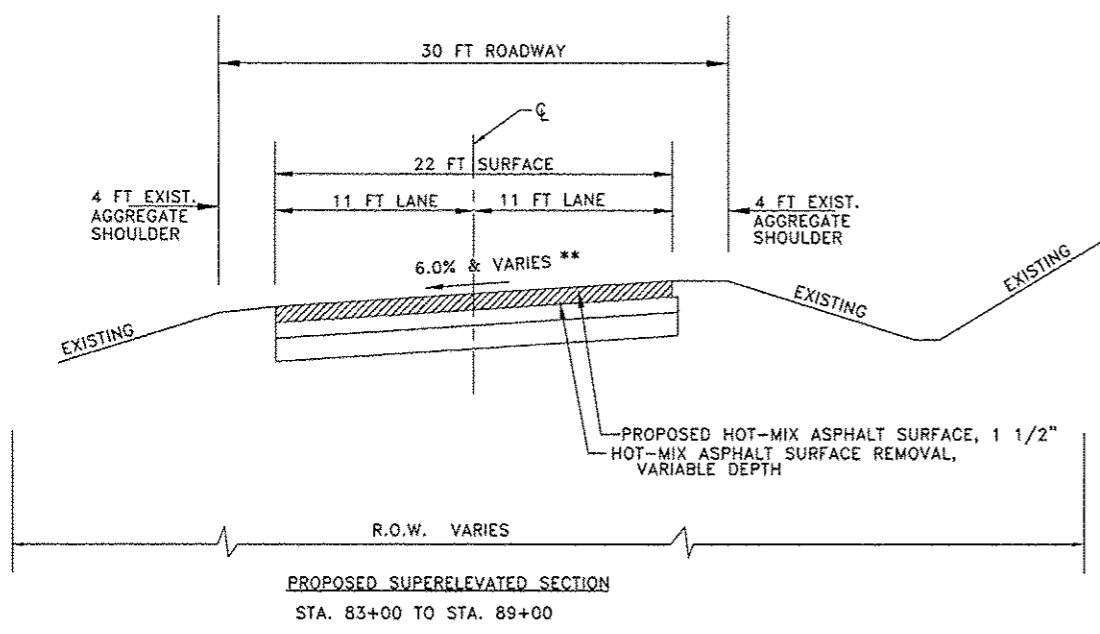
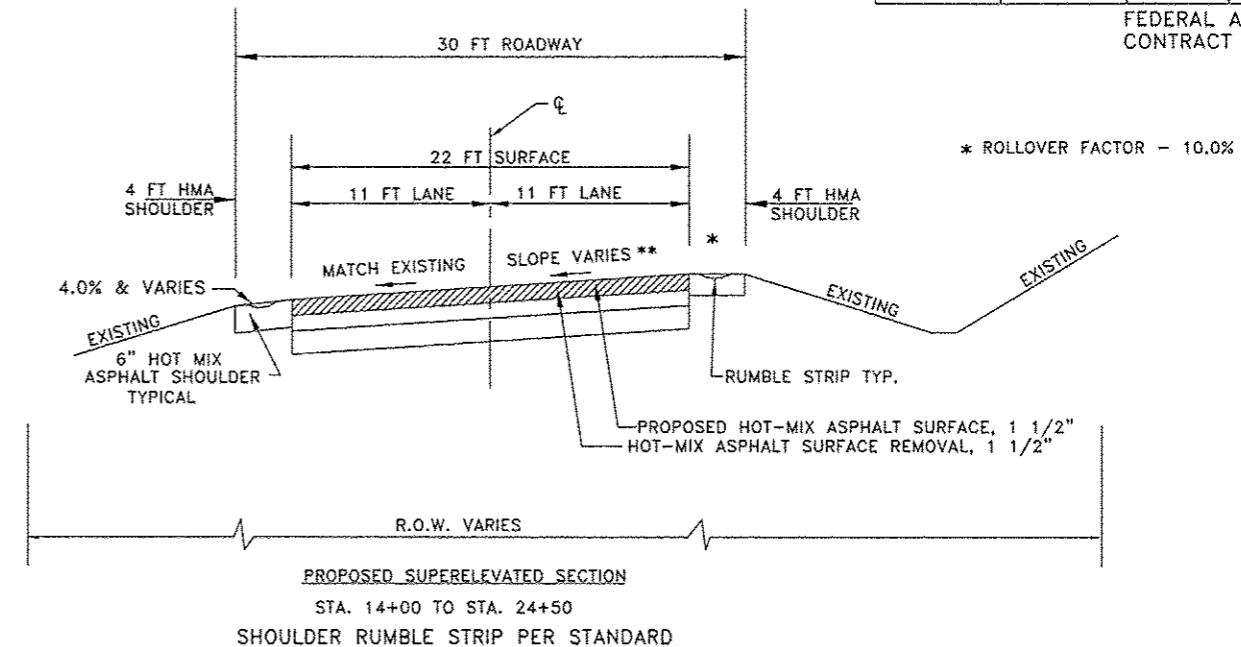
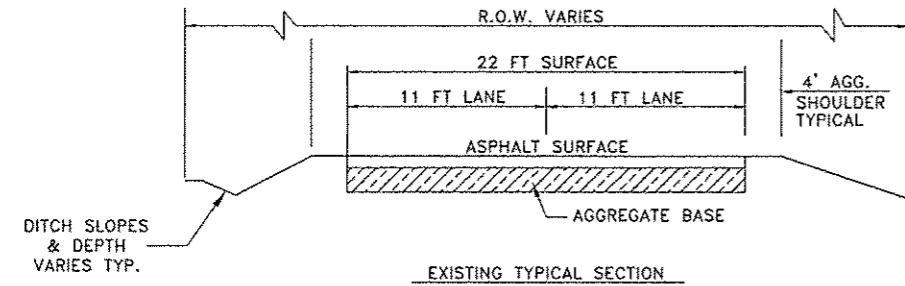
HOT-MIX ASPHALT MIXTURE REQUIREMENTS

LOCATION(S)	ALL	
MIXTURE USE(S)	SURFACE	SHOULDERS
AC/PG	PG 64-22	PG 64-22
RAP % (MAX)	15%	15%
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=50
MIXTURE COMPOSITION (GRADATION MIXTURE)	9.5	
FRICTION AGGREGATE	MIXTURE E	MIXTURE C

KASKASKIA ROAD CURVES
GENERAL NOTES AND
SUMMARY OF QUANTITIES
SEC 12-00039-01-SP
FAS 856 - KASKASKIA ROAD
MONROE COUNTY, ILLINOIS

ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 856 C.H. 1	12-00039 -01-SP	MONROE	4	3

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* ROLLOVER FACTOR - 10.0%

STA. 14+00 TO STA. 31+75
CROSS SLOPES
** SUPER ELEVATION: LOW SIDE MATCH EXISTING
HIGH SIDE 8.0%
HMA SHOULDER: 4.0% AND VARIES
ROLLOVER FACTOR: 10%

CROSS SLOPES

** SUPER ELEVATION: 6.0%
HOT-MIX ASPHALT SURFACE REMOVAL DEPTH WILL VARY THE ENTIRE ROADWAY WIDTH IN ORDER TO ACHIEVE THE 6.0% SUPERELEVATION.

KASKASKIA ROAD CURVES
TYPICAL SECTIONS
SEC 12-00039-01-SP
FAS 856 - KASKASKIA ROAD
MONROE COUNTY, ILLINOIS

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ROUTE NO	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FAS 856 C.H. 1	12-00039 -01-SP	MONROE	4	4

FEDERAL AID PROJECT
CONTRACT 97519

MAINLINE SURFACING SUMMARY

LOCATION STATION - STATION	HOT-MIX ASPHALT SURFACE COURSE, MIX "E" N70	HOT-MIX ASPHALT SHOULDERS MIX "C" N50	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	BITUMINOUS MATERIALS (PRIME COAT)	AGGREGATE (PRIME COAT)
UNIT	TON	TON	SQ YD	SQ YD	GAL	TON
STA. 14+00 TO STA. 31+75	410	553	4528	--	226	6.8
STA. 83+00 TO STA. 89+00	140	--	--	1467	74	2.2
PROJECT TOTALS	550	553	4528	1467	300	9

EARTHWORK SCHEDULE

LOCATION STATION - STATION	EARTH EXCAVATION
UNIT	CY
STA. 14+00 TO STA. 31+75	274.4
PROJECT TOTALS	274.4

* EARTH EXCAVATION IS FOR THE REMOVAL OF THE EXISTING
AGGREGATE SHOULDER FOR PLACEMENT OF THE HMA SHOULDER.

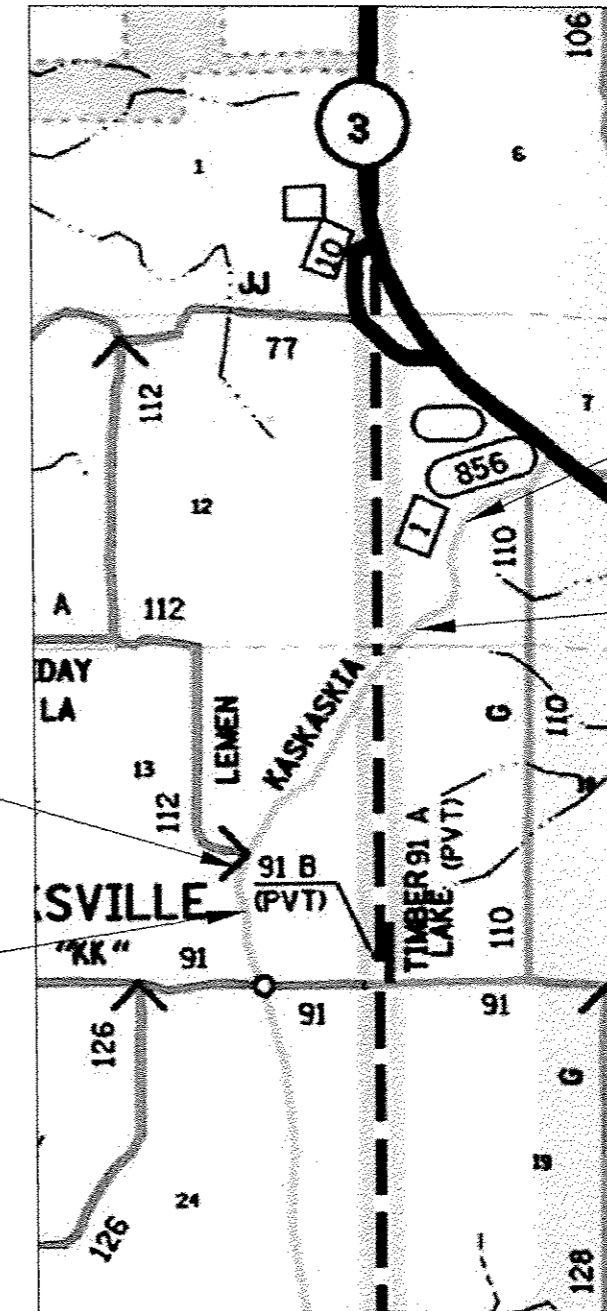
PAVEMENT MARKINGS

STATION	PAINT			REFLECTIVE PAVEMENT MARKER		RUMBLE STRIP (FOOT)	
	SKIP-DASH YELLOW 4" (FT)	SOLID YELLOW 4"		AMBER 2-WAY (EACH)	WHITE ONE-WAY (EACH)		
		CENTERLINE	NO PASSING ZONE LT				RT
14+00 TO 32+41.18 BK	0	1841	1841	3682	46.0	92.0	3682
31+64.16 AH TO 31+75	0	11	11	22	1.0	2.0	22
83+00 TO 89+00	0	600	600	1200	0.0	0.0	0.0
SUBTOTALS	0	2,452	2,452	4,904	47	94	3704
TOTALS		9,808			141		3704

ROADWAY SIGNING SCHEDULE

LOCATION STATION - STATION	CHEVRONS W1-8 18" X 24"
STA. 14+00 TO STA. 25+00 RIGHT	16
STA. 25+00 TO STA. 31+75 LEFT	12
PROJECT TOTALS	28

KASKASKIA ROAD CURVES
LOCATION MAP AND
SCHEDULES
SEC 12-00039-01-SP
MONROE COUNTY, ILLINOIS



BEGIN CONSTRUCTION
"S" CURVES
STA. 14+00

STATION EQUATION
STA 32+41.18 BK = STA 31+64.16 AH

END CONSTRUCTION
"S" CURVES
STA. 31+75

BEGIN CONSTRUCTION
BURKSVILLE CURVE
STA. 83+00

END CONSTRUCTION
BURKSVILLE CURVE
STA. 89+00