

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	(130,131)SR-1	JACKSON	8	1
ILLINOIS			CONTRACT NO. 78640	

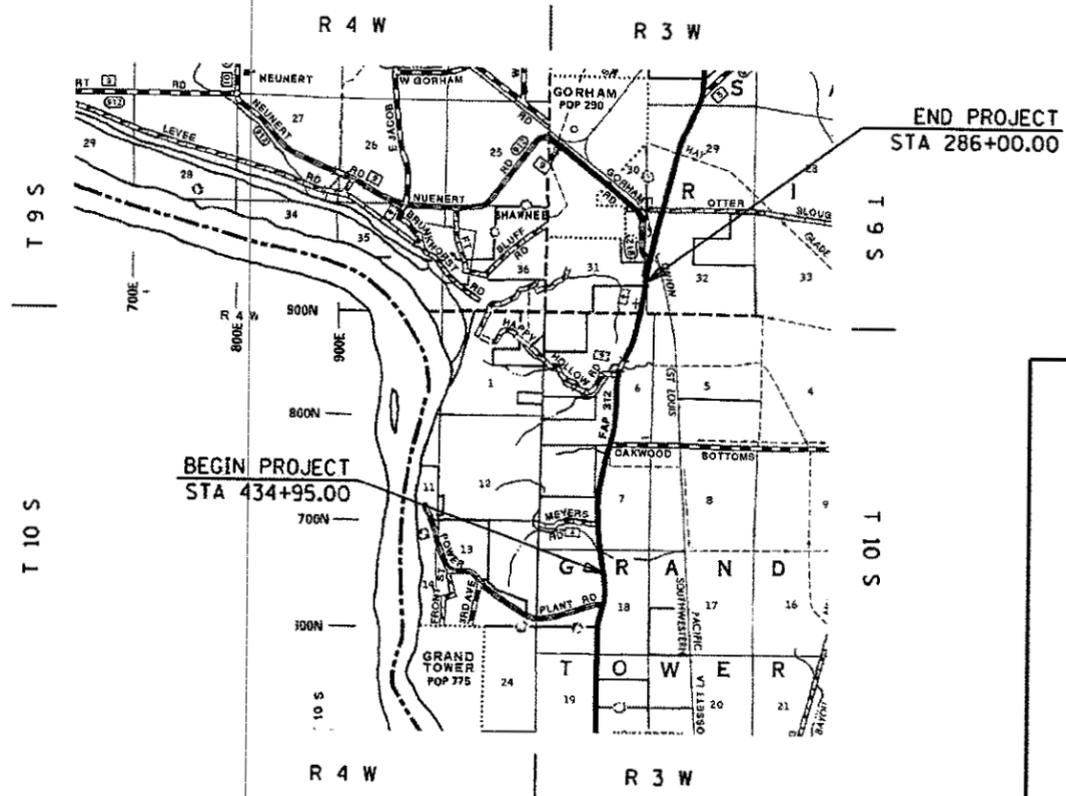
D-99-029-18



**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 312 (IL 3)
SECTION (130,131)SR-1
PROJECT HSIP-70EU(891)
SAFETY SHOULDERS
JACKSON COUNTY

C-99-055-18



GROSS LENGTH = 14,895.00 FT. = 2.821 MILES
NET LENGTH = 14,236.00 FT. = 2.696 MILES

FOR INDEX OF SHEETS, SEE SHEET NO. 3
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4-5
FOR STRUCTURAL PAVEMENT DESIGN
INFORMATION, SEE SHEET NO. N/A

TRAFFIC DATA

IL 3 TRAFFIC DATA

2018 ADT = 1,570 WITH 23.9% TRUCKS
2028 ADT = 1,730 WITH 24.0% TRUCKS
2038 ADT = 1,910 WITH 24.1% TRUCKS

TOWNSHIPS

GRAND TOWER
SAND RIDGE

DESIGN DESIGNATION : N/A
COORDINATE SYSTEM : N/A
POSTED SPEED : 55 MPH

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

PROJECT ENGINEER: CHARLES STEIN
PROJECT DESIGNER: EHREN KIRBY

CONTRACT NO. 78640

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Jan 22 20 18
Duffrey J Keim
REGION FIVE ENGINEER
Mar 18 20 23
S.A. Etk
Acting ENGINEER OF DESIGN AND ENVIRONMENT
Mar 18 20 23
David P. Chalk
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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Prepared By:



DISTRICT STUDIES & PLANS ENGINEER

Examined By:



DISTRICT LAND ACQUISITION ENGINEER

Examined By:



DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By:



DISTRICT OPERATIONS ENGINEER

Examined By:



DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By:



DISTRICT CONSTRUCTION ENGINEER

Examined By:



DISTRICT MATERIALS ENGINEER

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SIGNATURE SHEET

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 312	SECTION (130.131)SR-1	COUNTY JACKSON	TOTAL SHEETS 8	SHEET NO. 2
CONTRACT NO. 78640				
ILLINOIS FED. AID PROJECT				

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	SIGNATURE SHEET
3	INDEX OF SHEETS, GENERAL NOTES, MIXTURE REQUIRMENTS, COMMITMENTS, HIGHWAY STANDARDS, & OMISSIONS
4-5	SUMMARY OF QUANTITIES
6	TYPICAL SECTION
7	SHOULDER SCHEDULE
8	SIDEROAD AND ENTRANCE DETAIL

MIXTURE REQUIREMENTS

LOCATION(S):	Hot-Mix Asphalt Shoulders (Top Lift)
MIXTURE USES(S):	Hot-Mix Asphalt Surface Course, N30, IL-9.5L
AC/PG:	PG64-22
ABR% (Max):	See Special Provision
DESIGN AIR VOIDS:	4.0%, 30 Gyration Design
MIXTURE COMPOSTION: (GRADATION MIXTURE)	IL-9.5L
FRICTION AGGREGATE:	None
MIXTURE WEIGHT:	112 lbs/sq yd/in
QUALITY MANAGEMENT PROGRAM:	QCQA
SUBLOT SIZE:	N/A
NUMBER OF ROLLER PASSES:	N/A

LOCATION(S):	Hot-Mix Asphalt Shoulders (Lower Lifts)
MIXTURE USES(S):	Hot-Mix Asphalt Binder Course, N30, IL-19.0L
AC/PG:	PG64-22
ABR% (Max):	See Special Provision
DESIGN AIR VOIDS:	4.0 %, 30 Gyration Design
MIXTURE COMPOSTION: (GRADATION MIXTURE)	IL-19.0L
FRICTION AGGREGATE:	None
MIXTURE WEIGHT:	112 lbs/sq yd/in
QUALITY MANAGEMENT PROGRAM:	QCQA
SUBLOT SIZE:	N/A
NUMBER OF ROLLER PASSES:	N/A

GENERAL NOTES

FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

ALL HOT MIX ASPHALT 2.016 TONS/CU. YD.

THE ALGEBRAIC DIFFERENCE BETWEEN THE PAVEMENT AND SHOULDER SLOPES SHALL NOT EXCEED 10%. THE SHOULDER ON THE OUTSIDE OF SUPERELEVATED CURVES SHALL BE FLATTENED ACCORDINGLY.

TRIM EDGES OF EXISTING HOT MIX ASPHALT SURFACE FLUSH WITH EXISTING PAVEMENT PRIOR TO CONSTRUCTING NEW HOT MIX ASPHALT SHOULDERS.

AT ALL LOCATIONS WHERE THE PROPOSED HOT MIX ASPHALT SHOULDER JOINS AN EXISTING HOT MIX ASPHALT SHOULDER, A FULL DEPTH SAWED JOINT SHALL BE CONSTRUCTED. THE COST OF THIS JOINT WILL BE INCLUDED IN THE COST OF THE HOT MIX ASPHALT SHOULDER BEING CONSTRUCTED.

AFTER A LIFT OF HOT MIX ASPHALT HAS BEEN PLACED, THE LANE SHALL REMAIN CLOSED TO TRAFFIC UNTIL THE NEW MAT HAS COOLED TO 150 DEGREES FAHRENHEIT.

THE MATERIAL THAT IS REMOVED TO PLACE THE SHOULDER SHALL BE HANDLED IN ACCORDANCE WITH ARTICLE 202.06. THERE ARE NO AVAILABLE WASTE SITES ON THE EXISTING RIGHT OF WAY WITHIN THE PROJECT LIMITS. DISPOSAL WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.

COMMITMENTS

NO COMMITMENTS.

HIGHWAY STANDARDS

000001-06_STANDARDSYMBOLSABBREVIATIONS&PATTERNS
 001006_DECIMALOFINCH&FOOT
 642006_SHOULDERRUMBLESTRIP8IN
 701006-05_OFFRDOP-2L2W-15FTT0E0P
 701011-04_OFFRDMOVINGOP-2L2W-DAYONLY
 701326-04_LNCLOSURE2L2W-PVMTWIDENING45MPHORMORE
 701901-07_TRAFCNTRLDEVICES

OMISSION

STA 327+37.00 TO STA 333+96.00 FOR SN 039-0067 WITH EXISTING SHOULDERS

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, GENERAL NOTES, MIXTURE REQUIREMENTS,
COMMITMENTS, HIGHWAY STANDARDS, & OMISSIONS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	(130,131)SR-1	JACKSON	8	3
CONTRACT NO. 78640				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

COUNTY:	COUNTY:	JACKSON
ROUTE:	ROUTE:	IL 3
FUNDING:	FUNDING:	90% FED / 10% STATE
LOCATION:	LOCATION:	RURAL

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	SAFETY
20200600	EXCAVATING AND GRADING EXISTING SHOULDER	UNIT	285	285
25000200	SEEDING, CLASS 2	ACRE	2	2
25000350	SEEDING, CLASS 7	ACRE	2	2
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	236	236
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	118	118
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	118	118
25000700	AGRICULTURAL GROUND LIMESTONE	TON	4	4
25100115	MULCH, METHOD 2	ACRE	4	4
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	262	262
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	2,848	2,848
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	12,655	12,655
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	28,472	28,472

12

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**STATE OF ILLINOIS
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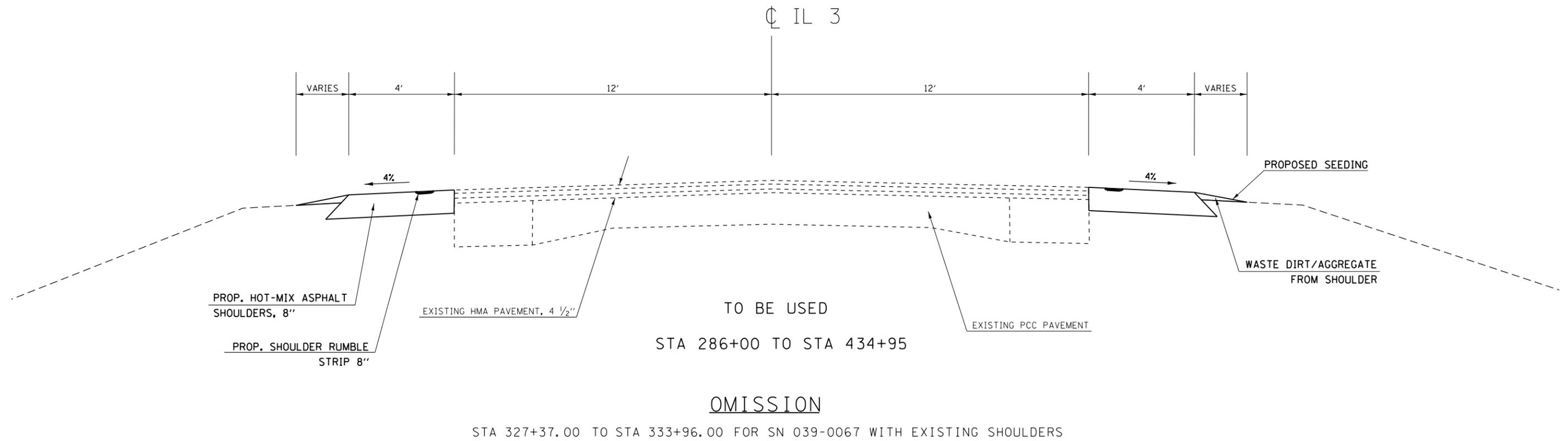
SUMMARY OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	(130,131)SR-1	JACKSON	8	4
CONTRACT NO. 78640				
ILLINOIS FED. AID PROJECT				

TYPICAL SECTION

IL 3 (FAP 312)



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	(130,131)SR-1	JACKSON	8	6
CONTRACT NO. 78640				
ILLINOIS		FED. AID PROJECT		

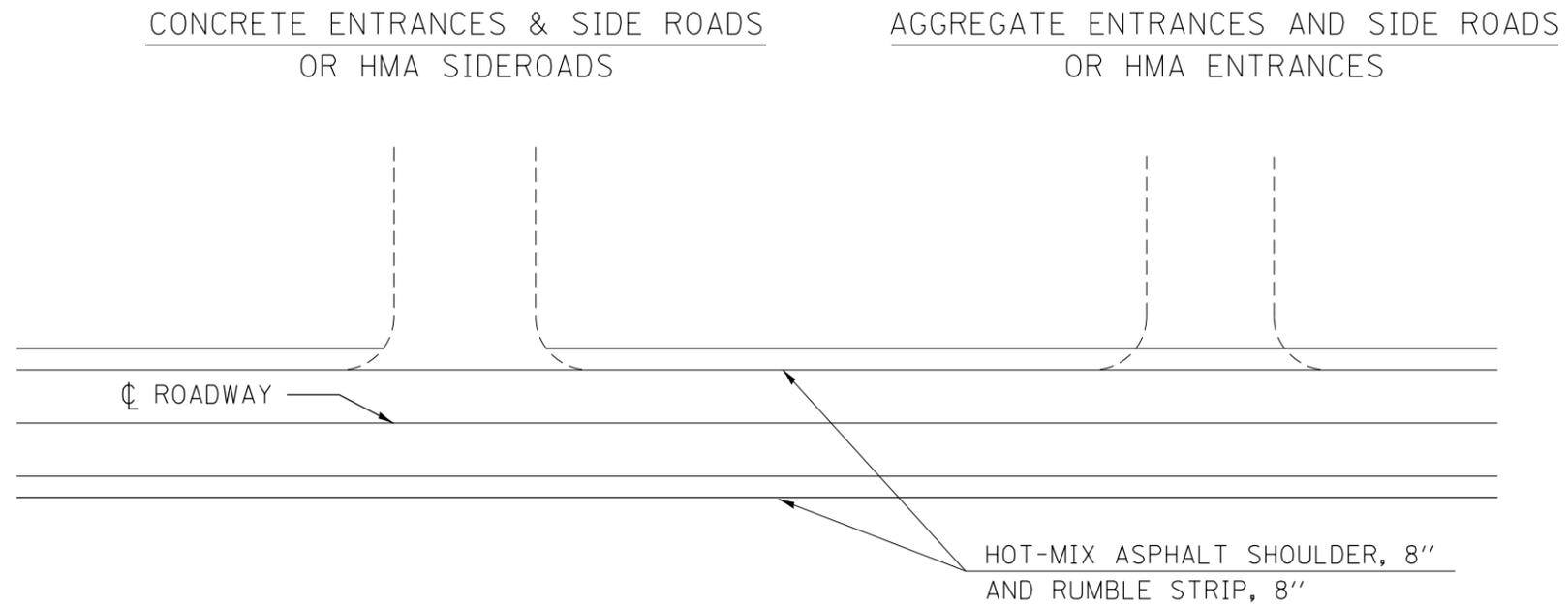
SHOULDER SCHEDULE

LOCATION STATION TO STATION	EXIST. PAVEMENT LENGTH (INFOR. ONLY)	HMA SHLDRS, 8"	BITUMINOUS MATERIALS (TACK COAT)	SHOULDER RUMBLE STRIPS, 8 INCH	EXC. & GRADING EX. SHOULDER	NOTES
	FOOT	SQ YD	POUND	FOOT	UNIT	
IL 148						
STA 286+00.00 TO STA 327+37.00	4,137.00	3678	828	8274	83	
GAP S.N. 039-0067 STA. 327+37.00 TO STA. 333+96.00	659.00					GAP STRUCTURE & EXISTING SHOULDERS
STA 333+96.00 TO STA 434+95.00	10,099.00	8977	2020	20198	202	
		12,655	2,848	28,472	285	

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USER NAME = kirbyea PLOT SCALE = 100.0000' / in. PLOT DATE = 1/23/2018	DESIGNED - DRAWN - CHECKED - DATE -	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SHOULDER SCHEDULE	F.A.P. RTE. 312	SECTION (130,131)SR-1	COUNTY JACKSON	TOTAL SHEETS 8	SHEET NO. 7
				SCALE: SHEET OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT CONTRACT NO. 78640				

SIDE ROAD AND ENTRANCE DETAIL



TO BE USED:

STA. 286+00 TO STA. 434+95

GENERAL NOTES

1. CONSTRUCT HOT-MIX ASPAHLT SHOULDER THROUGH AGGREGATE ENTRANCE AND SIDE ROADS, AND HMA ENTRANCES. IF THE ENTRANCE OR SIDE ROAD IS CONCRETE OR IF THE SIDEROAD IS HMA, THEN PLACE SHOULDER UP TO EDGE OF THE ENTRANCE OR SIDE ROAD PAVEMENT.
2. THE MATERIAL THAT IS REMOVED TO PLACE THE SHOULDER SHALL BE HANDLED IN ACCORDANCE WITH ARTICLE 202.06.

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**STATE OF ILLINOIS
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SIDE ROAD AND SHOULDER SCHEDULE

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	(130,131)SR-1	JACKSON	8	8
CONTRACT NO. 78640				
		ILLINOIS	FED. AID PROJECT	