

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
766	(3-2)RS-1, 3(1, 2)RS-2	BCAND	7	1
CONTRACT NO. 76R75				

INDEX OF SHEETS

1. COVER
2. HIGHWAY STANDARDS, GENERAL NOTES, & COMMITMENTS
3. SUMMARY OF QUANTITIES
4. TYPICAL SECTIONS
5. SCHEDULES
6. LOCATION MAP PLAN SHEET
7. CONSTRUCTION DETAILS

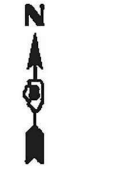
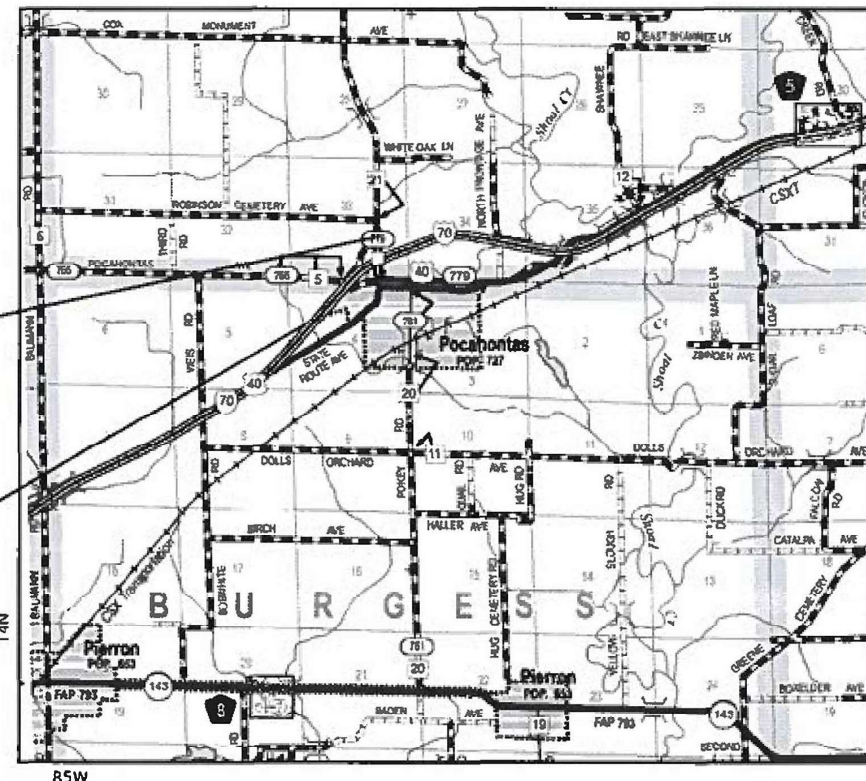
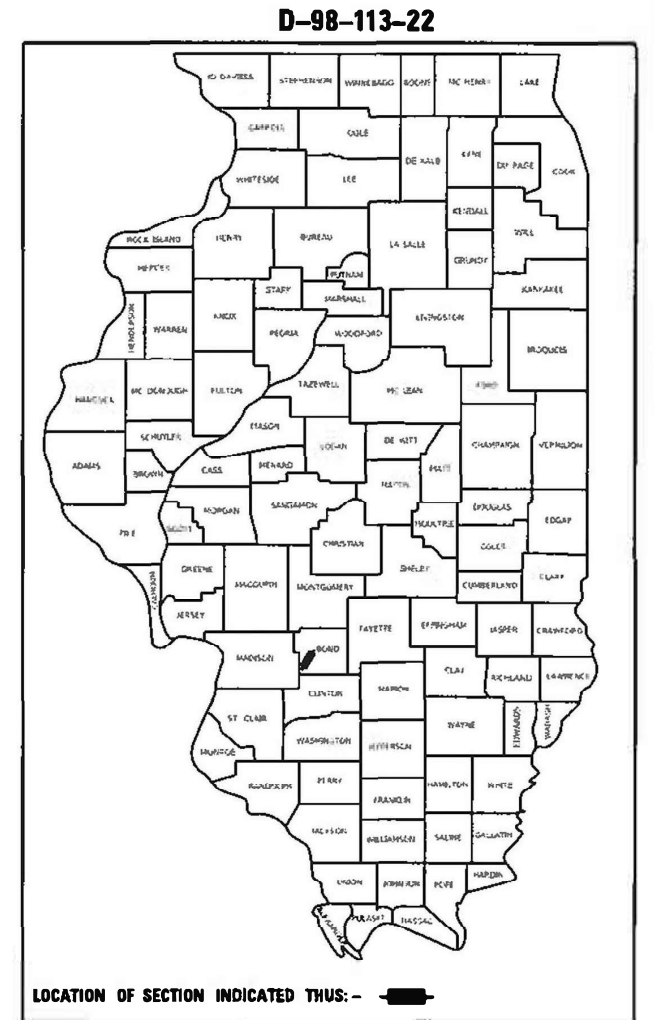
TRAFFIC DATA

ADT: 300 (2023)
350 (2043)
SU: 14.5%
MU: 9.5%
MAJOR COLLECTOR

**PROPOSED
HIGHWAY PLANS**

FAS 766 / FAI 70 (POCAHONTAS AVE /
FREY MEADOWS RD)
SECTION (3-2)RS-1, 3(1, 2)RS-2
HALF SMART RESURFACING, PATCHING-CM
BOND COUNTY

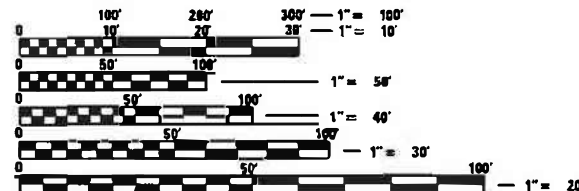
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MAP NOT TO SCALE



GROSS LENGTH = 5,280 FT. = 1.00 MILES
NET LENGTH = 5,280 FT. = 1.00 MILES



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.

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

PROJECT ENGINEER: CHERYL KEPLAR
PROJECT MANAGER: TONI MANN

CONTRACT NO. 76R75

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED: *Jan 30 2023*
[Signature]
REGIONAL ENGINEER

March 24, 2023
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

March 24, 2023
[Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

HMG ENGINEERS
HMG ENGINEERS, INC.
9360 HOLY CROSS LANE
BREESE, ILLINOIS 62230
888.HMG.ENGR

IL PROF. DESIGN FIRM NO. 184.000899

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OF THE STATE OF ILLINOIS

[Signature]
BRANDON M. RATERMANN, P.E.
ILLINOIS REGISTERED ENGINEER NO. 062-068775
REGISTRATION EXPIRES NOV. 30, 2023

GENERAL NOTES

- UTILITIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA AS FOLLOWS:
 ALHAMBRA-GRANTFORK TELEPHONE CO. - COMMUNICATIONS
 AMEREN ILLINOIS - GAS & ELECTRIC
 AT&T ILLINOIS - COMMUNICATIONS
 BLUEBIRD NETWORK - COMMUNICATIONS
 BOND MADISON WATER COMPANY - WATER
 DEPARTMENT OF CENTRAL MANAGEMENT SERVICES - COMMUNICATIONS
 FRONTIER COMMUNICATIONS - COMMUNICATIONS
 PLAINES MARKETING, LP - PIPELINE
 VILLAGE OF POCAHONTAS - WATER & SANITARY
 SOUTHWESTERN ELECTRIC COOPERATIVE, INC. - ELECTRIC
- THE CONTRACTOR AND THE ENGINEER SHALL BE AWARE THAT NO SURVEY WAS PERFORMED FOR THIS PROJECT. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
- "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT EACH END OF THE PROJECT PLUS THE INTERSECTING SIDE ROADS, AND WILL BE CONSIDERED INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE 48" X 48" FLUORESCENT ORANGE.
- NO OVERNIGHT CLOSURES SHALL BE ALLOWED.
- THE CONTRACTOR SHALL EXERCISE CARE AT ALL SIDE STREETS AND ENTRANCES DURING TO ENSURE THAT THE FINAL SURFACE WILL MEET THE EXISTING SIDE STREETS AND ENTRANCES.
- THE BITUMINOUS MATERIALS (FOG SEAL) AS SHOWN IN THE BDE SPECIAL PROVISION *BITUMINOUS SURFACE TREATMENT WITH FOG SEAL* IS NOT INCLUDED IN THIS CONTRACT.

MIXTURE COMPOSITION

	OVERLAY	PATCHING
MIXTURE USE	POLY BINDER	PARTIAL DEPTH PATCHING
AC/PG	SBS PG 76-22	PG 64-22
DESIGN AIR VOIDS	4.0% @ Ndes=50	4.0% @ Ndes=70
MIX COMPOSITION (GRADATION)	IL 4.75	IL 19.0
FRICTION AGG		MIXTURE "B"
QUALITY MGMT PROGRAM	QC/QA	QC/QA
MatTranDev REQUIRED?	NO	NO

HIGHWAY STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701306-04 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701336-07 LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS ≥ 45 MPH
- 701901-08 TRAFFIC CONTROL DEVICES

COMMITMENTS

NONE

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**HIGHWAY STANDARDS, GENERAL NOTES,
& COMMITMENTS**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
766	(3-2)RS-1, 3(1, 2)RS-1	BOND	7	2
			CONTRACT NO. 76R75	
ILLINOIS				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE	
				100% STATE	
				ROADWAY	
				0005	
				RURAL	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	5729		5729
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	160		160
40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	534		534
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	178		178
67100100	MOBILIZATION	L SUM	1		1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1		1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1		1
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1		1
X1500004	BITUMINOUS SURFACE TREATMENT, A1	SQ YD	12731		12731
X4406040	PARTIAL DEPTH REMOVAL, TYPE I, 4"	SQ YD	9		9
X4406240	PARTIAL DEPTH REMOVAL, TYPE II, 4"	SQ YD	113		113
X4406440	PARTIAL DEPTH REMOVAL, TYPE III, 4"	SQ YD	160		160
X4406640	PARTIAL DEPTH REMOVAL, TYPE IV, 4"	SQ YD	734		734
X4421000	PARTIAL DEPTH PATCHING	TON	228		228

REV. - MS

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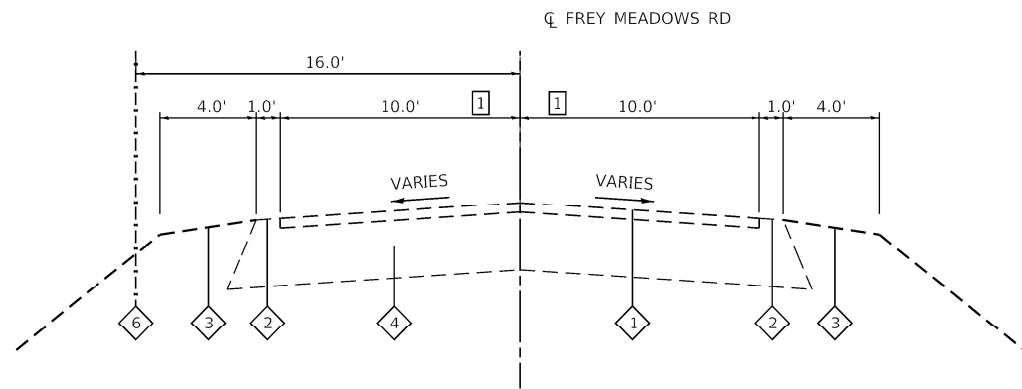
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

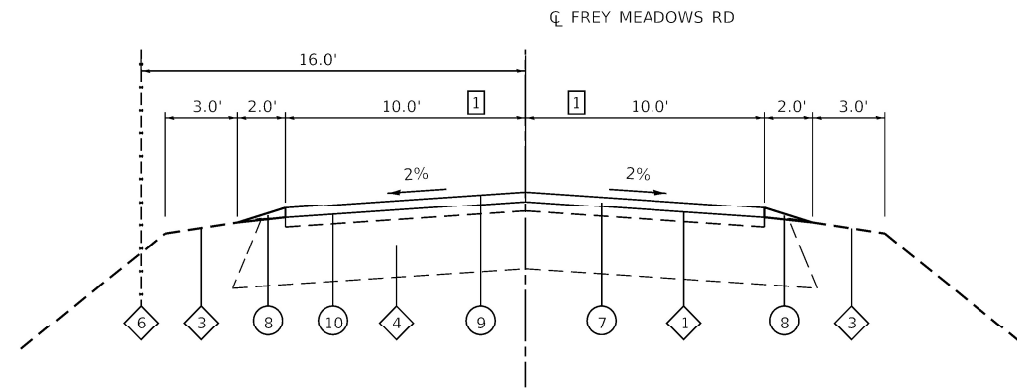
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			CONTRACT NO. 76R75	
ILLINOIS				



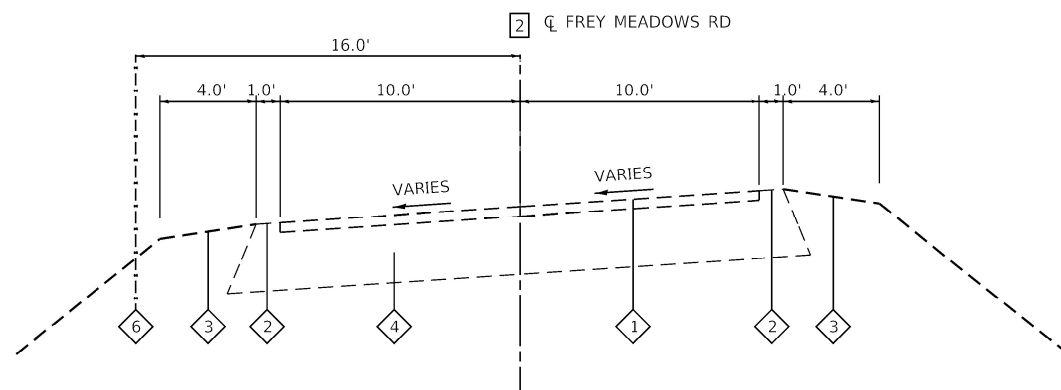
EXISTING TYPICAL SECTION

MILE STA. 0.000 TO MILE STA 0.100
MILE STA. 0.320 TO MILE STA. 0.458



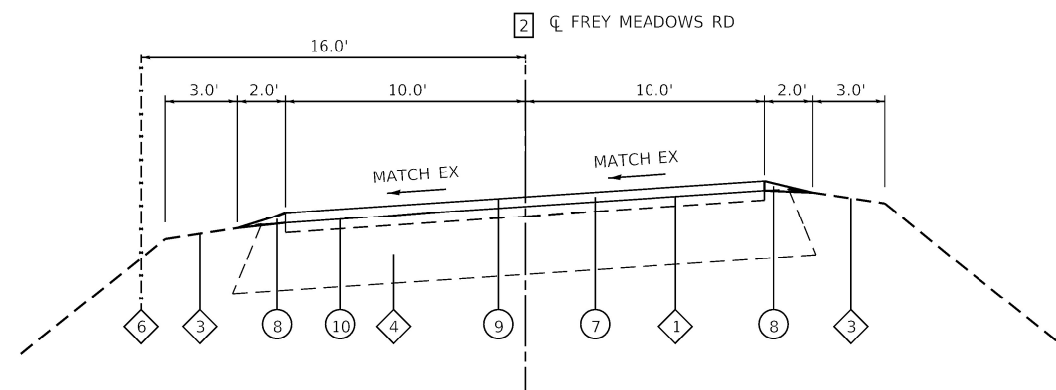
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MILE STA. 0.320 TO MILE STA. 0.458



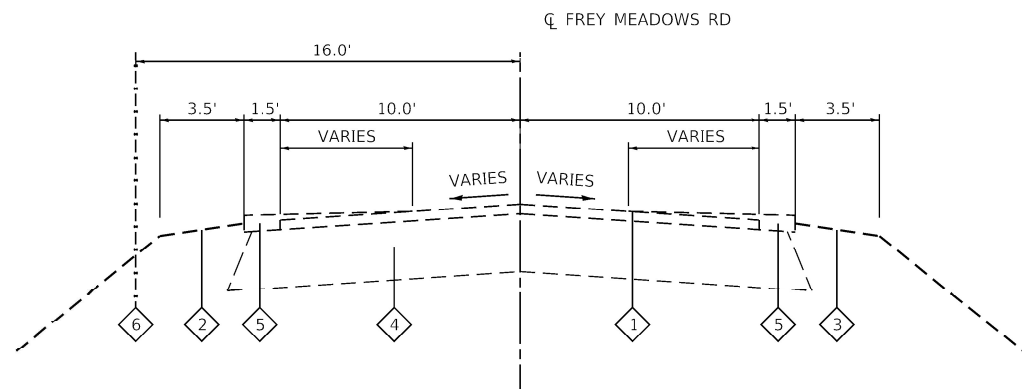
EXISTING TYPICAL SECTION

MILE STA. 0.100 TO MILE STA. 0.320



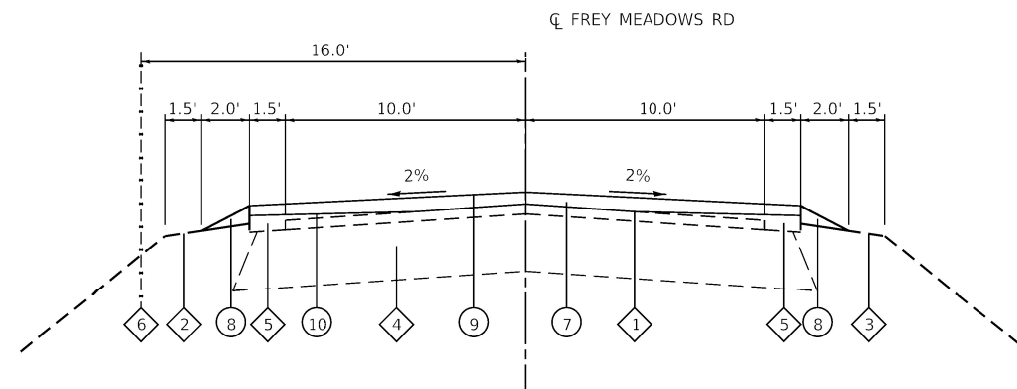
PROPOSED TYPICAL SECTION

MILE STA. 0.100 TO MILE STA. 0.320



EXISTING TYPICAL SECTION

MILE STA. 0.458 TO MILE STA 1.000



PROPOSED TYPICAL SECTION

MILE STA. 0.458 TO MILE STA. 1.000

TYPICAL SECTION LEGEND

- 1 EXISTING BITUMINOUS SURFACE TREATMENT
- 2 EXISTING AGGREGATE SHOULDER
- 3 EXISTING EARTH SHOULDER
- 4 EXISTING AGGREGATE BASE COURSE, +/- 12"
- 5 EXISTING HMA WIDENING
- 6 EXISTING INTERSTATE FENCE
- 7 PROPOSED POLYMERIZED HMA BINDER COURSE, IL-4.75, N50.3/4"
- 8 PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- 9 PROPOSED BITUMINOUS SURFACE TREATMENT, A1
- 10 PROPOSED BITUMINOUS MATERIALS, TACK COAT

TYPICAL SECTION NOTES

- 1 LANE WIDTH VARIES AT THE INTERSECTION WITH POKEY RD.
- 2 SUPERELEVATION DIRECTION & SLOPE VARIES BY LOCATION.

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STATE OF ILLINOIS
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TYPICAL SECTIONS

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
766	(3-2)RS-1, 3(1, 2)RS-2	BOND	7	4
			CONTRACT NO. 76R75	
ILLINOIS				

PARTIAL DEPTH PATCHING

MILE STATION	WIDTH (FEET)	LENGTH (FEET)	PART DEP REM T1 4 (SQ YD)	PART DEP REM T2 4 (SQ YD)	PART DEP REM T3 4 (SQ YD)	PART DEP REM T4 4 (SQ YD)	PARTIAL DEPTH PATCH (NOTE 1&2) (TON)	NOTES
0.011	12	20		26.7			6.0	
0.011	4	60		26.7			6.0	PAVEMENT EDGE
0.109	4	1,000				444.4	99.5	PAVEMENT EDGE
0.220	4	8	3.6				0.8	
0.236	12	12		16.0			3.6	
0.331	12	20		26.7			6.0	
0.460	4	6	2.7				0.6	
0.483	4	650				288.9	64.7	PAVEMENT EDGE
0.496	12	40			53.3		11.9	
0.609	4	120			53.3		11.9	PAVEMENT EDGE
0.719	4	120			53.3		11.9	PAVEMENT EDGE
0.737	12	12		16.0			3.6	
0.749	4	6	2.7				0.6	
SUBTOTAL			9.0	112.1	159.9	733.3	227.1	
TOTAL			9	113	160	734	228	

PARTIAL DEPTH PATCHING NOTES:

- APPLICATION RATES USED FOR QUANTITY ESTIMATES ARE AS FOLLOWS:
 HOT-MIX ASPHALT: (PATCHING) 112 LBS/SY/INCH THICKNESS
 TACK COAT: 0.05 LBS/SF
- HMA PATCHING SHALL BE PLACED IN 2" LIFTS

RESURFACING SCHEDULE

LOCATIONS (MILE STA.)	BIT SURF TREATMNT A1 (SQ YD)	BIT MATLS TACK CT (POUND)	P HMA BC IL-4.75 N50 (TON)	HMA SURF REM BUTT JT (SQ YD)	AGG WEDGE SHLD TYPE B (TON)
0.000 TO 0.458	5,373.3	2,418.0	225.7	108.1	82.0
0.458 TO 1.000	7,357.0	3,310.7	308.1	51.1	95.6
SUBTOTAL	12,730.3	5,728.7	533.8	159.2	177.6
TOTAL	12,731	5,729	534	160	178

RESURFACING NOTES:

- APPLICATION RATES USED FOR QUANTITY ESTIMATES ARE AS FOLLOWS:
 HOT MIX ASPHALT: 112 LBS/SY/INCH THICKNESS
 TACK COAT: 0.05 LBS/SF
 AGGREGATE WEDGE SHOULDER: 2.0 TONS/CY

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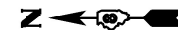
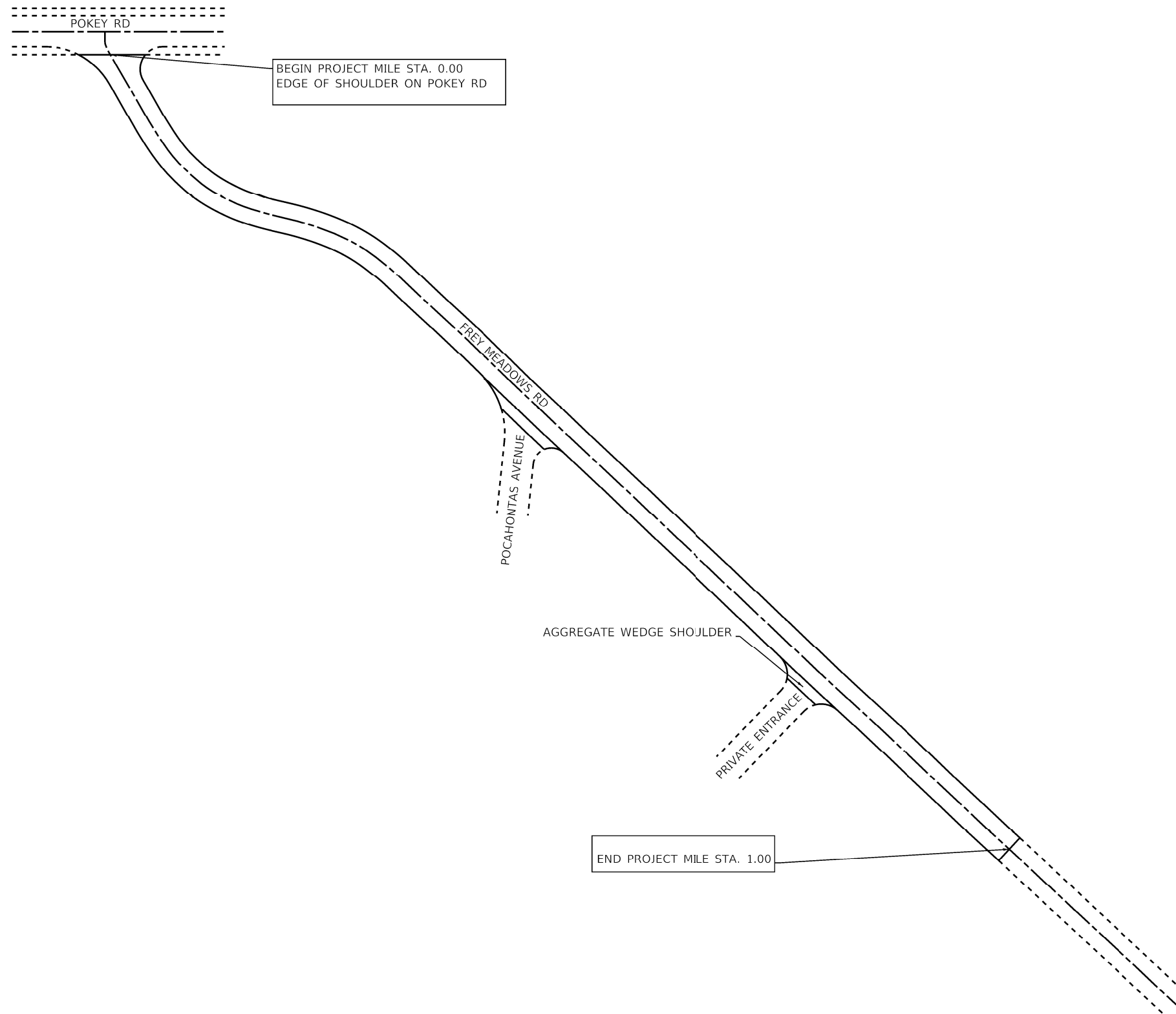
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCHEDULES

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

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766	(3-2)RS-1, 3(1, 2)RS-2	BOND	7	5
CONTRACT NO. 76R75			ILLINOIS	



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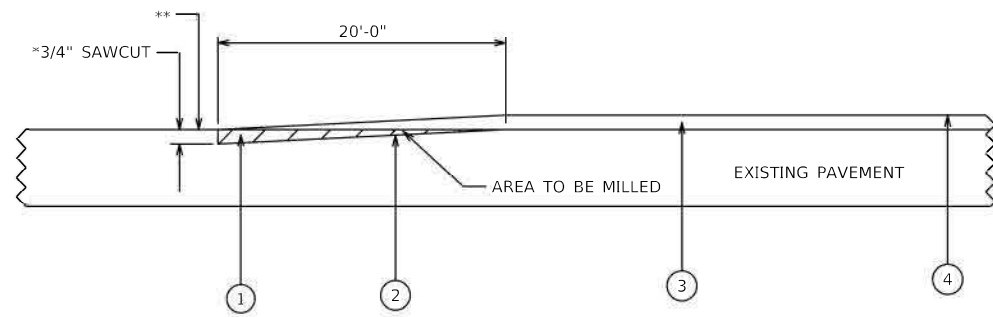
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LOCATION MAP
PLAN SHEET**

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

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766	(3-2)RS-1, 3(1, 2)RS-2	BOND	7	6
CONTRACT NO. 76R75			ILLINOIS	

BUTT JOINTS

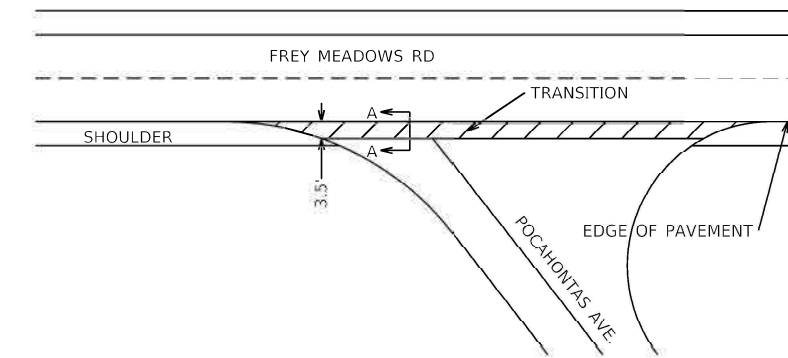
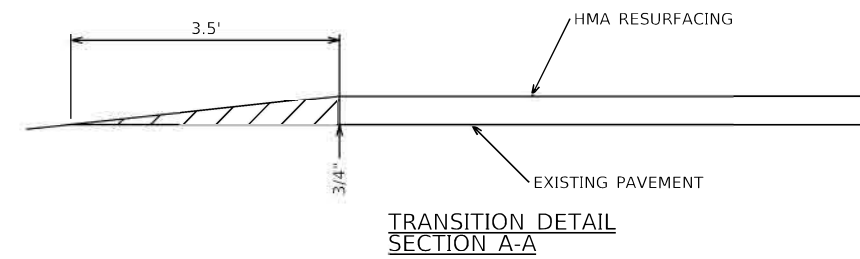


LEGEND

- ① HMA SURFACE REMOVAL-BUTT JOINT
- ② BITUMINOUS MATERIAL (TACK COAT)
- ③ POLYMERIZED HMA BINDER COURSE, IL-4.75, N50
- ④ BITUMINOUS SURFACE TREATMENT, A1

* COST OF SAWCUT TO BE INCLUDED IN HMA SURFACE REMOVAL-BUTT JOINT; NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

** EXTEND BITUMINOUS SURFACE TREATMENT SLIGHTLY BEYOND SAWCUT JOINT TO SEAL JOINT.



POCAHONTAS AVE. SIDEROAD DETAIL

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**STATE OF ILLINOIS
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CONSTRUCTION DETAILS

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
766	(3-2)RS-1, 3(1, 2)RS-2	BOND	7	7
CONTRACT NO. 76R75			ILLINOIS	