

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

F.A.S. 300 (C.H. 23 - CATON FARM ROAD)

SECTION 05-00082-00-RS

PROJECT NO. RS-300(106)

JOB NO. C-93-059-07

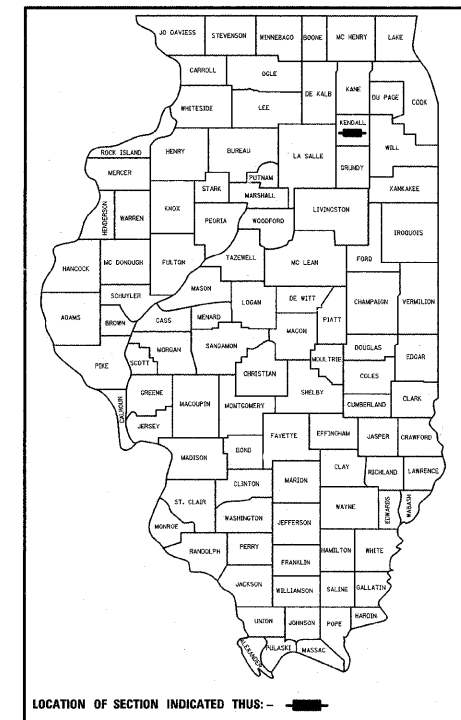
KENDALL COUNTY

HIGHWAY STANDARDS

- 701011-01 OFF-RD MOVING OPERATIONS 2L, 2W, DAY ONLY
- 701301-02 LANE CLOSURE, 2L, 2W, SHORT TERM OPERATIONS
- 701306-01 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS, DAY ONLY, FOR SPEEDS \geq 45 MPH
- 701311-02 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701901 TRAFFIC CONTROL DEVICES

INDEX OF SHEETS

- 1. COVER SHEET
- 2. SUMMARY OF QUANTITIES
- TYPICAL SECTION
- SIDE ROAD DETAIL
- PAVEMENT DESIGN

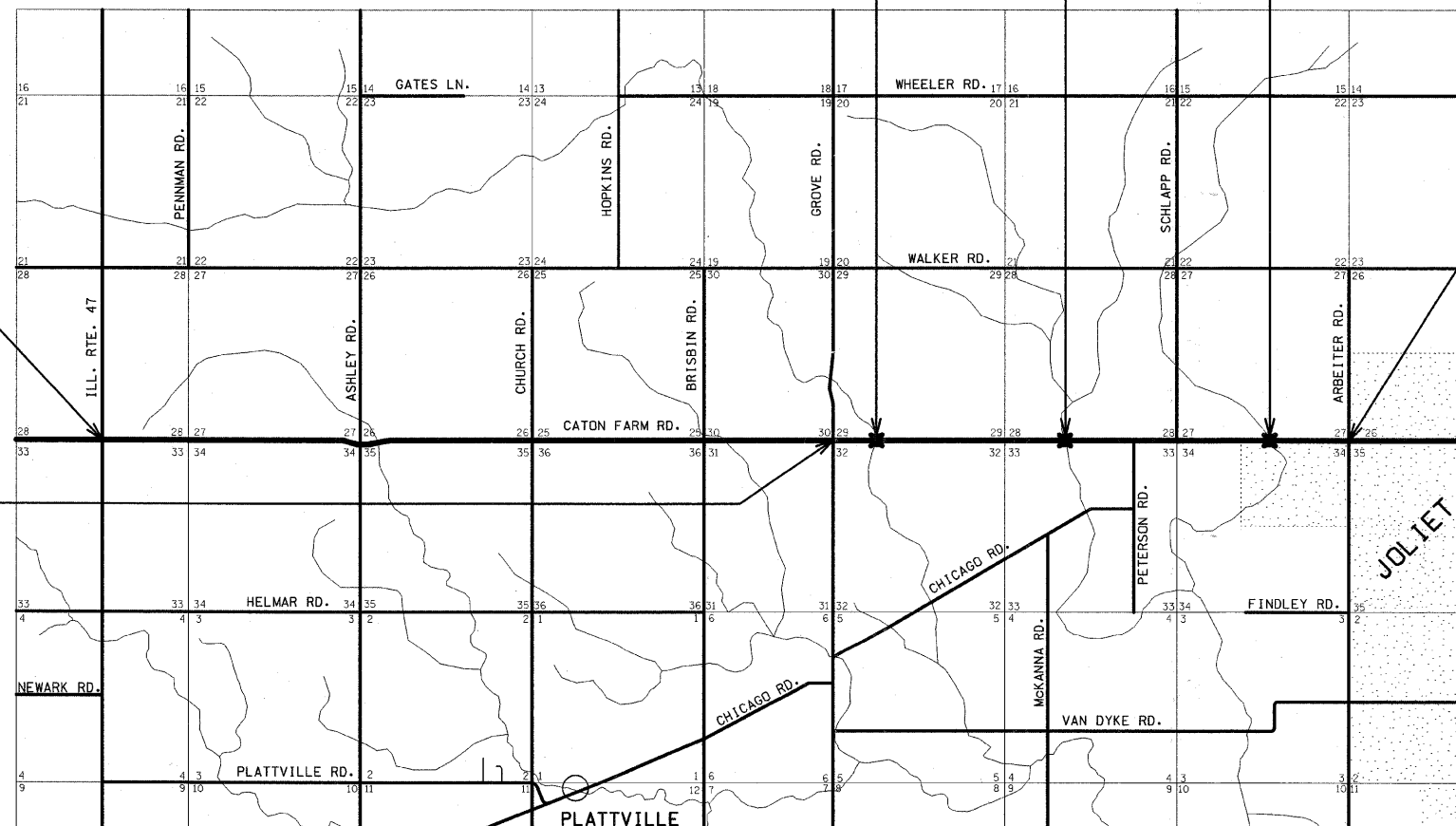


OMISSION STA 24+24.13 STA 24+93.88	OMISSION STA 83+36.37 STA 83+87.62	OMISSION STA 142+24.25 STA 142+85.75
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PROJECT STARTS
STA 390+29

STATION EQUATION
STA 0+00 BK =
STA 10+00 AHD.

PROJECT ENDS
STA 169+19



FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR
CURRENT ADT: 3000 (YEAR 2008)
DESIGN ADT: 3550 (YEAR: 2016)
PLANS DEVELOPED IN ACCORDANCE WITH
LOCAL AGENCY PAVEMENT PRESERVATION POLICY

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

LENGTH = 38,275 FEET = 7.25 MILES

CONTRACT NO. 87348

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED JANUARY 10 20 08

Francis C. Klaas
KENDALL COUNTY ENGINEER

01-14 20 08

Kenneth R. Lutz
DISTRICT ENGINEER of LOCAL ROADS and STREETS

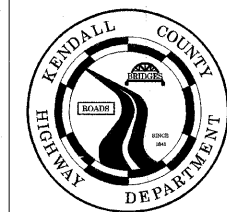
01-14 20 08

Margo E. Ryan
DEPUTY DIRECTOR of HIGHWAYS, REGION 2 ENGINEER

Date: 01/10/08

By: FRANCIS C. KLAAS

License Exp: 11/30/09



SUMMARY OF QUANTITIES

FUND CODE 1000

CODE NO.	ITEM	UNIT	QUANTITY
△ 20201100	GRADING EXISTING SHOULDER	UNIT	762
△ 40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	7,500
40600300	AGGREGATE (PRIME COAT)	TON	100
* 40600625	LEVEL BINDER, (MACHINE METHOD) N 50	TON	500
40600990	TEMPORARY RAMP	SQ YD	110
△ 40603310	HOT MIX ASPHALT, SURFACE COURSE, MIX "C", N 50	TON	8,300
40800050	INCIDENTAL HOT MIX ASPHALT SURFACING	TON	316
△ 44000157	HOT MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	93,134
44201723	CLASS D PATCHES, TYPE IV, 6 INCH	SQ YD	122
48101200	AGGREGATE SHOULDERS, TYPE B	TON	3,000
67100100	MOBILIZATION	L SUM	1
△ 70100460	TRAFFIC CONTROL PROTECTION, 701306	L SUM	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	7,620
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1,270
** 78005110	EPOXY PAVEMENT MARKING, LINE 4"	FOOT	90,000
△ XX007274	LEVEL BINDER (MACHINE METHOD) SPECIAL	TON	11,600

LEVEL BINDER, MACHINE METHOD, N 50: Work is to be performed as a separate operation, before the Level Binder (Machine Method) Special and Surface Courses are placed on the road. This is to allow for superelevation correction through the curves near the Intersection of Ashley, Rd. and Caton Farm Rd. as directed by the engineer.

△ SPECIAL PROVISION ITEMS

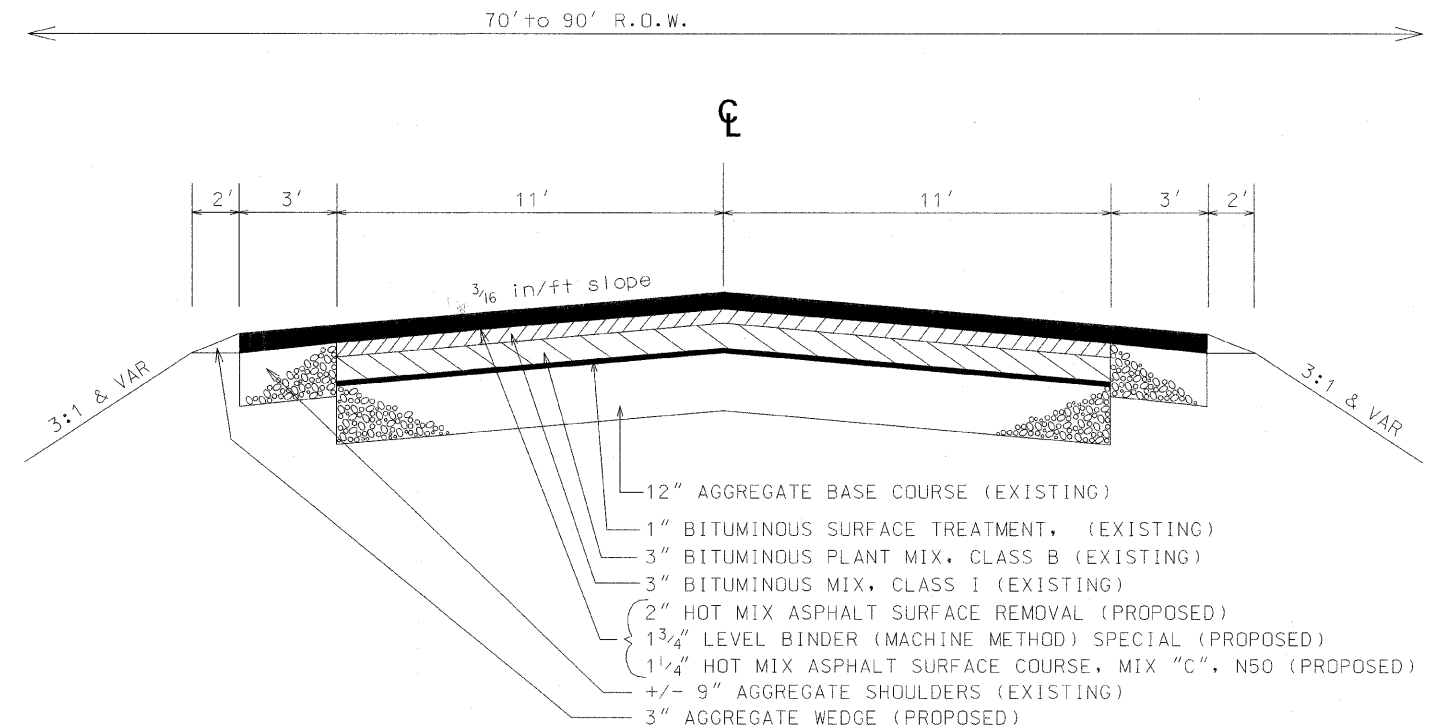
** SPECIALTY ITEMS

SIDE ROAD / ENTRANCE SCHEDULE

DESCRIPTION	NUMBER	TONS /EACH	LEV BIND CSE SUPER, N50	HMA, SURF CSE, SUP MIX "C", N50	INC BIT SURFACING
MAILBOX TURNOUTS	25	0.60 (LEVEL BINDER) 0.42 (SURFACE)	15	11	
FIELD ENTRANCES	40	0.55 (LEVEL BINDER) 0.40 (SURFACE)	22	9	
PRIVATE ENTRANCES	36	6.0 (SURFACE)			216
SIDE ROADS	10	10.0 (SURFACE)			100
TOTALS			* 37	* 20	316

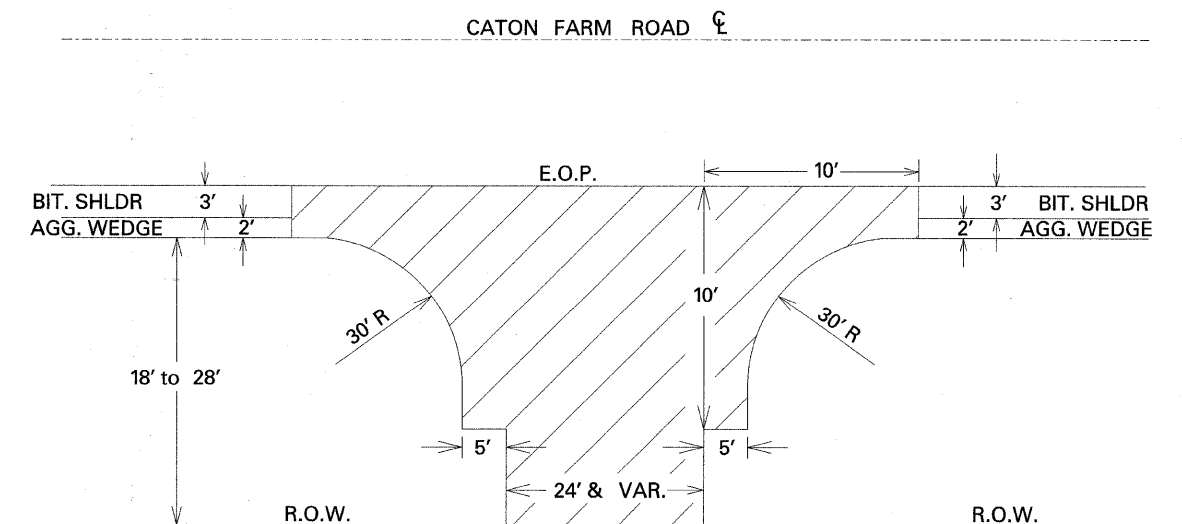
* PAID FOR AS PART OF MAINLINE QUANTITIES

TYPICAL SECTION CATON FARM ROAD



F.A.S. RTE. 300	COUNTY KENDALL	TOTAL SHEETS 2	SHEET NO. 2
SECTION 05-00082-00-RS	JOB C-93-059-07	CONTRACT 87348	PROJECT RS-300(106)

SIDE ROAD DETAIL



STRUCTURAL DESIGN INFORMATION

CATON FARM ROAD
SECTION 05-00082-00-RS

ROAD CLASSIFICATION: COLLECTOR, CLASS II

STRUCTURAL DESIGN YEAR: 2016 (8-YR DESIGN)

2016 ADT: 3550 PV (97%) = 3443 SU (2%) = 71 MU (1%) = 36

TRAFFIC FACTOR = 0.168 IBV = 3

STRUCTURAL NUMBER = 3.15

PAVEMENT STRUCTURE MATERIALS

Aggregate Base Course (Existing)	(12.00')(0.08)	=	0.96
Bituminous Surface Treatment, A-3 (Existing)	(1.5')(0.15)	=	0.23
Bituminous Plant Mix, Class B (Existing)	(3.00')(0.17)	=	0.51
Bituminous Mix Class I (Existing After Grinding)	(1.00')(0.30)	=	0.30
Hot Mix Asphalt, Level Binder & Surface Course (Proposed)	(3.00')(0.40)	=	1.20
			3.20

SUPERELEVATION CORRECTIONS

Curve Station	Existing Super	Proposed Super	Corrective Action
Curve 1 (PC) 300+50 (PT) 304+75	1.0% to 1.9% & var.	4.00%	Correct w/ level binder
Curve 2 (PC) 306+75 (PT) 310+50	1.5% to 2.9% & var.	4.00%	Correct w/ level binder
Curve 3 (PC) 314+00 (PT) 317+75	2.3% to 5.7% & var.	4.00%	Rotomill the high side of the super Correct with level binder
Curve 4 (PC) 319+75 (PT) 323+50	1.3% to 4.3% & var.	4.00%	Rotomill the high side of the super Correct with level binder