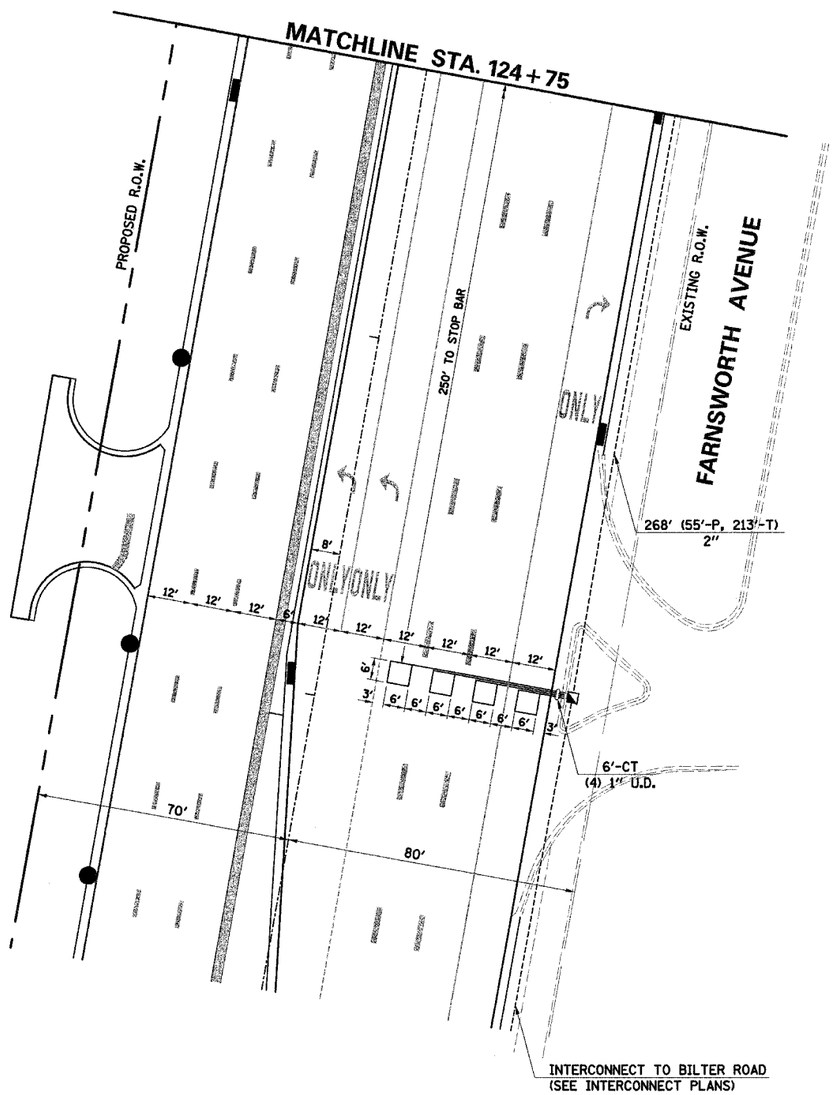
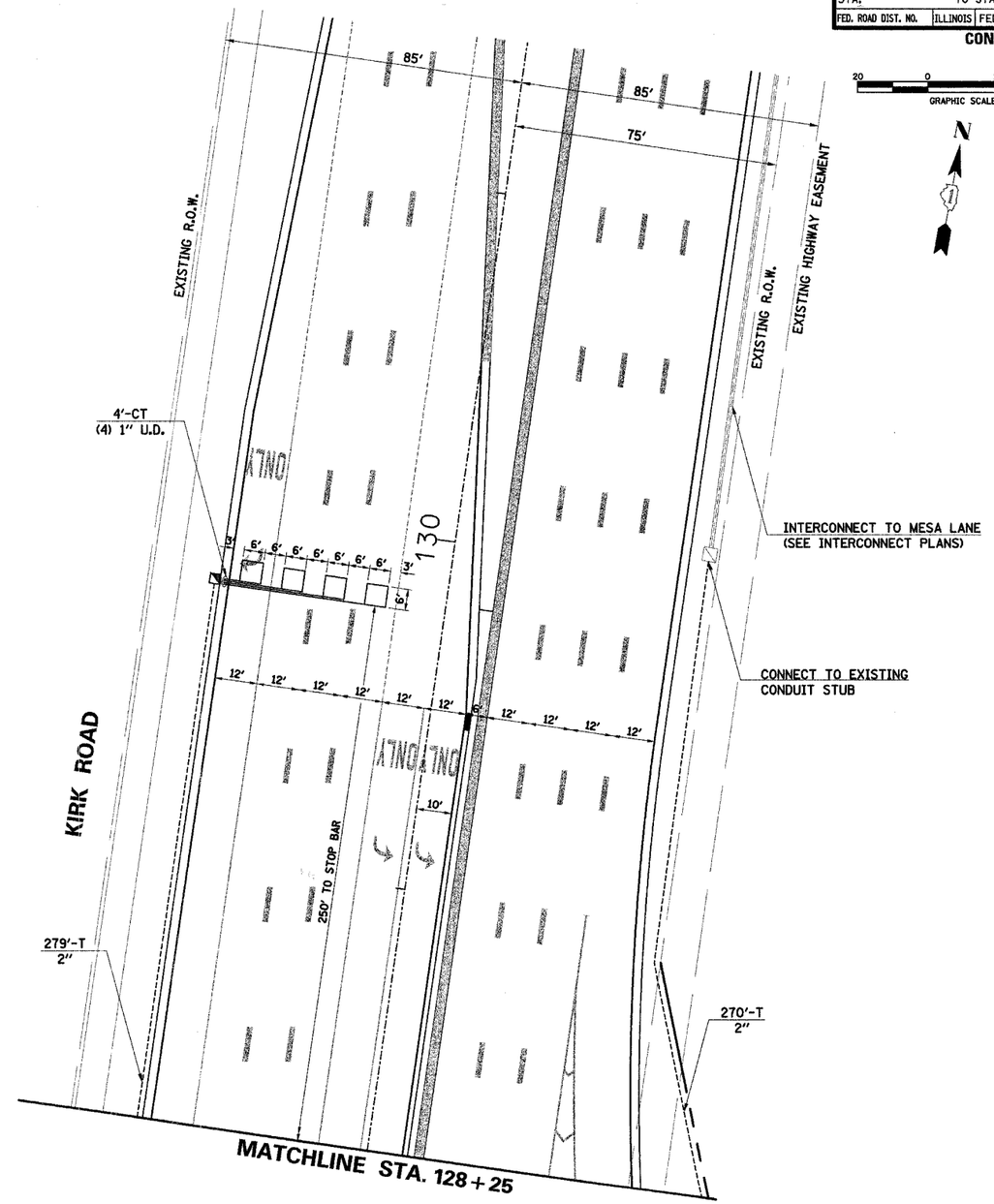
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	01-00273-00-CH	KANE	172	101
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83906

PLAN		BY	DATE
NOTE BOOK NO.	SURVEYED		
	PLOTTED		
	ALIGNMENT CHECKED		
	RT. OF WAY CHECKED		
	CADD FILE NAME		

PROFILE		BY	DATE
NOTE BOOK NO.	SURVEYED		
	PLOTTED		
	GRADES CHECKED		
	B.M. NOTED		
	STRUCTURE NOTAT'NS CH'KD		





NOTE:
SEE SHEET 2 OF THE TRAFFIC SIGNAL INSTALLATION PLAN FOR TRAFFIC SIGNAL LEGEND.

ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 56 AT KIRK / FARNSWORTH

TRAFFIC SIGNAL INSTALLATION PLAN
(SHEET 3 OF 3)

SCALE: VERT. N/A
HORIZ. 1"=20'
DATE APR 06 2007

DRAWN BY BAH
CHECKED BY APS

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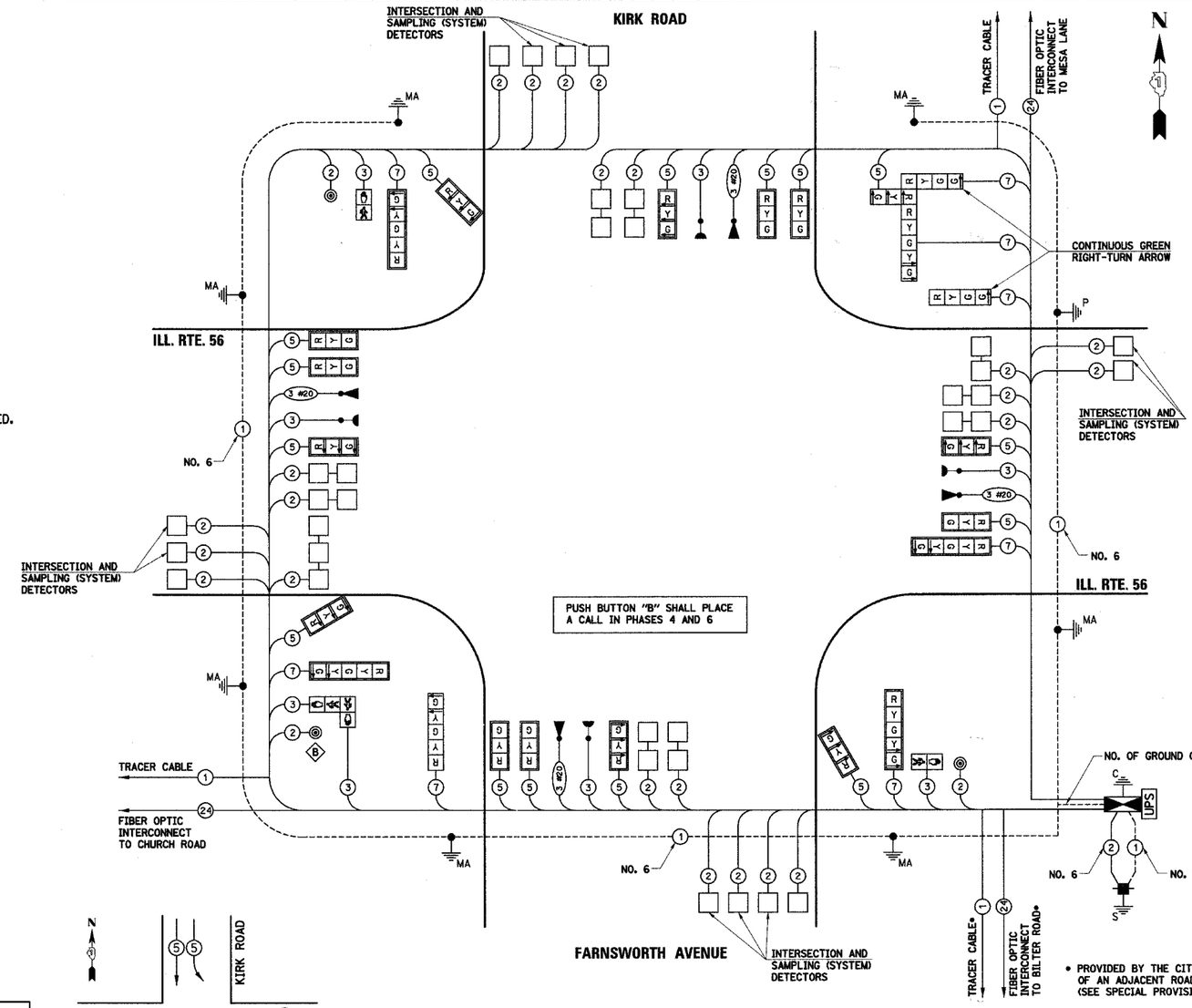
4/17/2007

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	01-00273-00-CH	KANE	172	102
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83906

CABLE PLAN LEGEND

EXISTING	PROPOSED	
G	G	8" (200mm) TRAFFIC SIGNAL SECTION
R	R	12" (300mm) TRAFFIC SIGNAL SECTION
W	W	12" (300mm) PEDESTRIAN SIGNAL SECTION
		12" (300mm) PEDESTRIAN SIGNAL SECTION
		CONTROLLER CABINET
		SERVICE INSTALLATION
T	T	TELEPHONE INSTALLATION
		VEHICLE DETECTOR, INDUCTION LOOP
		MAGNETIC DETECTOR
		EMERGENCY VEHICLE LIGHT DETECTOR
		CONFIRMATION BEACON
		PUSHBUTTON DETECTOR
2	2	DENOTES NUMBER OF CONDUCTORS. ALL CABLE NO. 14 EXCEPT AS INDICATED. ALL LOOP DETECTOR CABLE TO BE SHIELDED.
1	1	GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
24	24	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F
R Y G L G "P"	R Y G L G "P"	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD.
"E" R	R	RAILROAD CONTROL CABINET
"E"		ILLUMINATED SIGN "NO LEFT TURN"
"E"		ILLUMINATED SIGN "NO RIGHT TURN"
H/C	H/C	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C)
P/MA	P/MA	GROUND ROD AT POST (P) OR MAST ARM POLE (MA)
S	S	GROUND ROD AT ELECTRIC SERVICE INSTALLATION
	UPS	UNINTERRUPTABLE POWER SUPPLY



THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

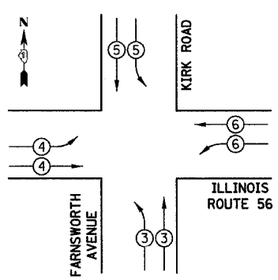
SCHEDULE OF QUANTITIES

ITEM	UNIT	QUANTITY
SIGN PANEL, TYPE 1	SQ FT	70
SIGN PANEL, TYPE 2	SQ FT	30
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	975
CONDUIT IN TRENCH, 2½" DIA., GALVANIZED STEEL	FOOT	118
CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL	FOOT	63
CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL	FOOT	177
CONDUIT IN TRENCH, 5" DIA., GALVANIZED STEEL	FOOT	20
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	427
CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	756
HANDHOLE	EACH	5
HEAVY-DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	3
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	1266
FULL-ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	698
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	2307
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	4878
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	2087
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	8521
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	33
TRAFFIC SIGNAL POST, GALVANIZED STEEL 15 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 55 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 26 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 34 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE, 55 FT.	EACH	2
CONCRETE FOUNDATION, TYPE A	FOOT	4
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER	FOOT	13.5
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	19
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	14
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED	EACH	1
TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	18
INDUCTIVE LOOP DETECTOR	EACH	23
DETECTOR LOOP, TYPE I	FOOT	1551
LIGHT DETECTOR	EACH	4
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	3
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	10
REMOVE EXISTING CONCRETE FOUNDATION	EACH	5
SERVICE INSTALLATION - POLE MOUNTED	EACH	1
ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C	FOOT	1434
ELECTRIC CABLE IN CONDUIT, NO. 20 3C TWISTED SHIELD	FOOT	1327
UNINTERRUPTABLE POWER SUPPLY	EACH	1
SIGNAL HEAD, LED, 3-FACE, 1-3 SECTION, 1-4 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMINGS	EACH	1

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	WATTAGE INCAND.	WATTAGE LED	% OPERATION	
SIGNAL (RED)	23		17	0.50	195.5
(YELLOW)	23		25	0.25	143.8
(GREEN)	23		15	0.25	86.3
ARROW (NORMAL)	12		12	0.10	14.4
ARROW (WB RIGHT)	2		15	1.00	30.0
PED. SIGNAL	4		25	1.00	100.0
CONTROLLER	1		100	1.00	100.0
BATTERY BACKUP	1		25	1.00	25.0
ILLUM. SIGN				0.05	
FLASHER				0.50	
				TOTAL =	695.0

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: DAVE HUBERTY
PHONE: (847) 608-2342
COMPANY: COMMONWEALTH EDISON

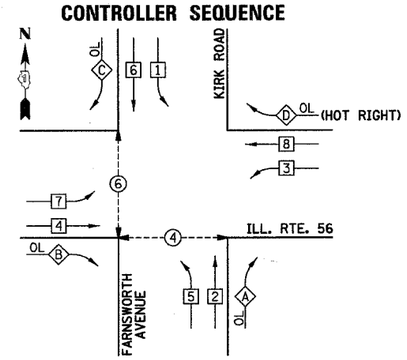


EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTORS				
PROPOSED EMERGENCY VEHICLE PREEMPTORS	3	4	5	6
MOVEMENT				

FOUNDATION (DEPTH)		FT. (m)	CABLE SLACK	FT. (m)	VERTICAL	FT. (m)
TYPE A - POST		4 (1.2)	HANDHOLE	6.5 (2.0)	ALL FOUNDATIONS	3.5 (1.0)
C - CONTROLLER		4 (1.2)	DOUBLE HANDHOLE	13 (4.0)	MAST ARM (L) POLE	20'+L-2=
D - CONTROLLER		4 (1.2)	SIGNAL POST	2 (1.0)		(6m+L-0.6m)
E - M.A. LENGTH			CONTROLLER CAB.	1 (0.5)	BRACKET MOUNTED	13 (4.0)
<30'	30" (900mm)	10 (3.0)	FIBER OPTIC	13 (4.0)	PED. PUSHBUTTON	4 (1.2)
<40'	30" (750mm)	13.5 (4.1)	ELECTRIC SERVICE	1 (0.5)	ELECTRIC SERVICE	13.5 (4.1)
<40'	36" (900mm)	11 (3.4)	GROUND CABLE	1 (0.5)	SERVICE TO GROUND	13.5 (4.1)
<50'	36" (900mm)	13 (4.0)			POST MOUNTED	6 (1.8)
≥50'	36" (900mm)	15 (4.6)				

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

CONTROLLER SEQUENCE LEGEND

- SINGLE ENTRY PHASE
- OVERLAP
- * NUMBER REFERRING TO ASSOCIATED PHASE
- PEDESTRIAN PHASE

OVERLAP PHASE		PERMISSIVE PHASE		PROTECTED PHASE
A	=	2	+	3
B	=	4	+	5
C	=	6	+	7
D	=	(HOT) CONTINUOUS GREEN RIGHT ARROW		

NOTE:
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 56 AT KIRK / FARNSWORTH

CABLE PLAN AND PHASE DESIGNATION DIAGRAM

SCALE: VERT. N/A
HORIZ. N.T.S.
DATE APR 06 2007

DRAWN BY BAH
CHECKED BY APS

PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / FIELD TRAV CHECKED / FIELD FILE NAME / NOTE BOOK NO. / BY / DATE

PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CHK'ED / NOTE BOOK NO. / BY / DATE

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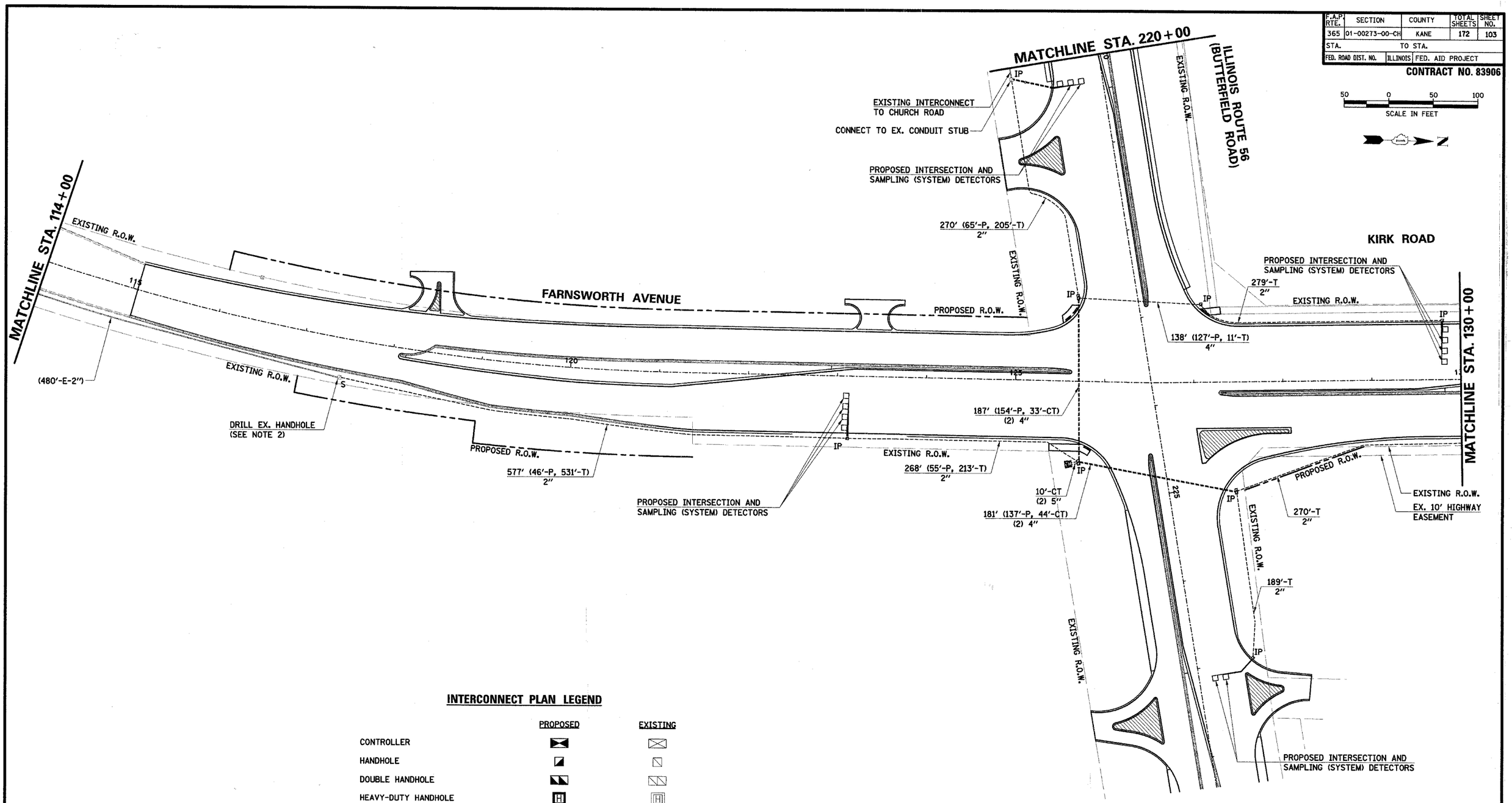
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	01-00273-00-CH	KANE	172	103
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83906



INTERCONNECT PLAN LEGEND

	PROPOSED	EXISTING
CONTROLLER		
HANDHOLE		
DOUBLE HANDHOLE		
HEAVY-DUTY HANDHOLE	H	H
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)		
DETECTOR LOOP		
UNIT DUCT	UD	
SYSTEM	S	
INTERSECTION	IP	I
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE		

NOTES:

1. THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.
2. THE EXISTING HANDHOLES AT STA. 108+30 RT, STA. 112+72 RT, AND STA. 117+46 RT ALONG FARNSWORTH AVENUE WERE INSTALLED BY THE CITY OF AURORA AS PART OF AN ADJACENT ROADWAY IMPROVEMENT TO ACCOMODATE THE PROPOSED TRAFFIC SIGNAL INTERCONNECT SYSTEM. THE SLACK FIBER OPTIC AND TRACER CABLES PROVIDED IN THESE HANDHOLES (BY THE CITY) SHALL BE EXTENDED TO THE PROPOSED CONTROLLER CABINET WITHOUT SPLICING.

ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 56 AT KIRK / FARNSWORTH

INTERCONNECT PLAN (SHEET 1 OF 3)

SCALE: VERT. N/A HORIZ. 1"=50'

DATE: APR 06 2007

DRAWN BY BAH

CHECKED BY APS

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / ROAD FILE NAME / NOTE BOOK NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / SHEET NO. / SIGNATURE NOTATNS CHKD / NOTE BOOK NO. / BY / DATE

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	01-00273-00-CH	KANE	172	104
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83906

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SCALE IN FEET

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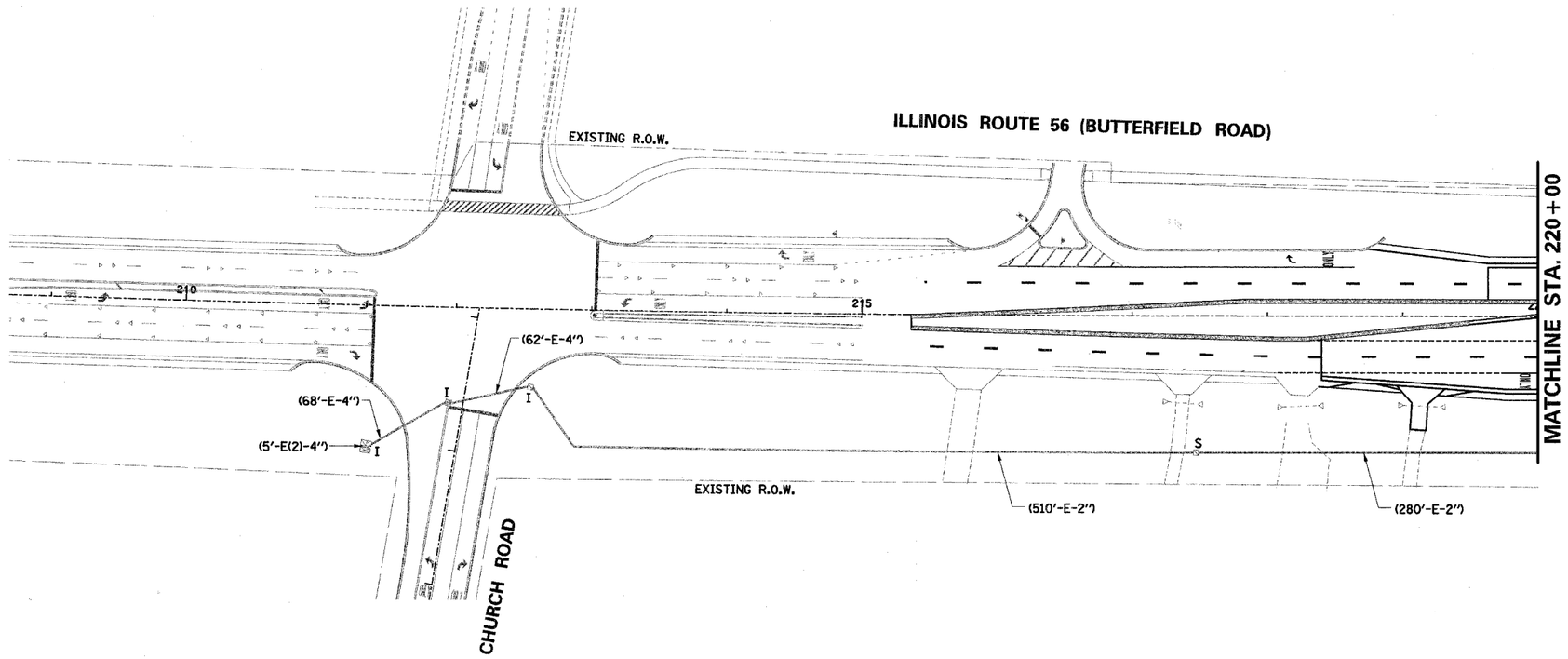

NOTE:
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 56 AT KIRK / FARNSWORTH

INTERCONNECT PLAN
(SHEET 2 OF 3)

SCALE: VERT. N/A
HORIZ. 1"=50'

DATE APR 06 2007

DRAWN BY BAH

CHECKED BY APS

PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK		
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PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
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STRUCTURE NOTATIONS CH'KD		
NOTE BOOK		
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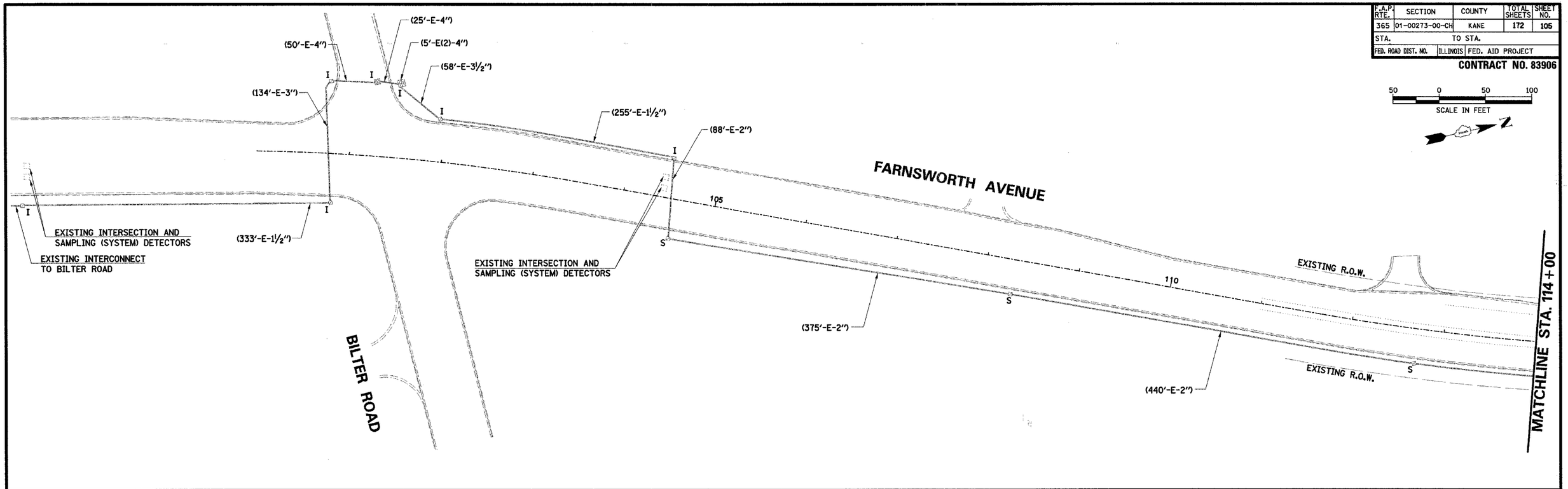
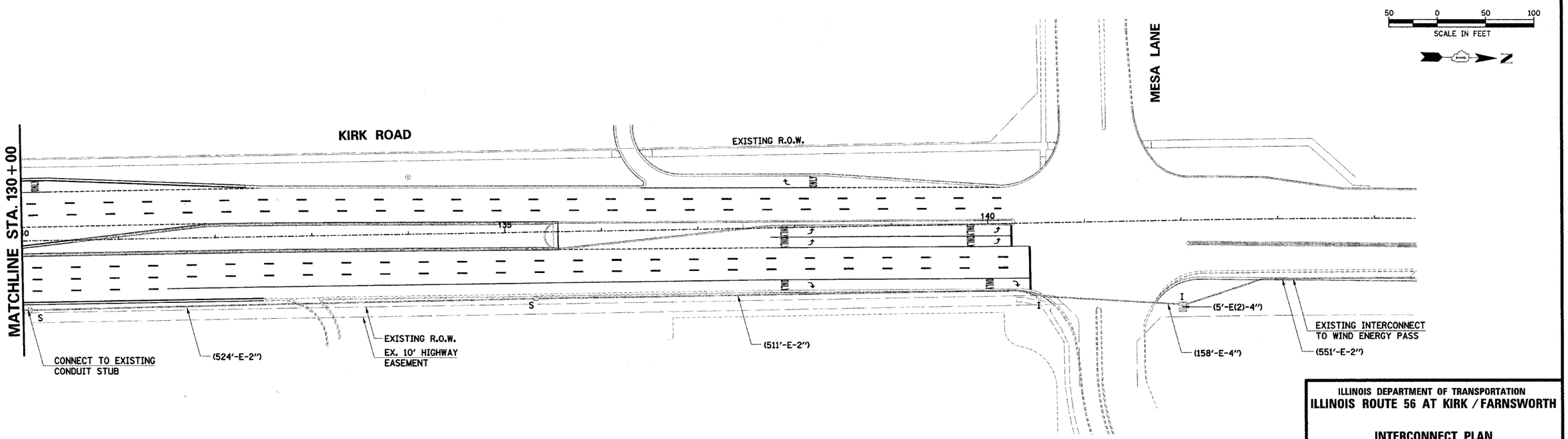
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	01-00273-00-CH	KANE	172	105
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83906



PLAN	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
RT. OF WAY CHECKED		
CADD FILE NAME		
NOTE BOOK NO.		



PROFILE	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
B.M. NOTED		
STRUCTURE NOTATIONS CHKD		
NOTE BOOK NO.		

NOTE:
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 56 AT KIRK / FARNSWORTH

INTERCONNECT PLAN (SHEET 3 OF 3)

SCALE: VERT. N/A HORIZ. 1"=50'

DATE APR 06 2007

DRAWN BY BAH

CHECKED BY APS

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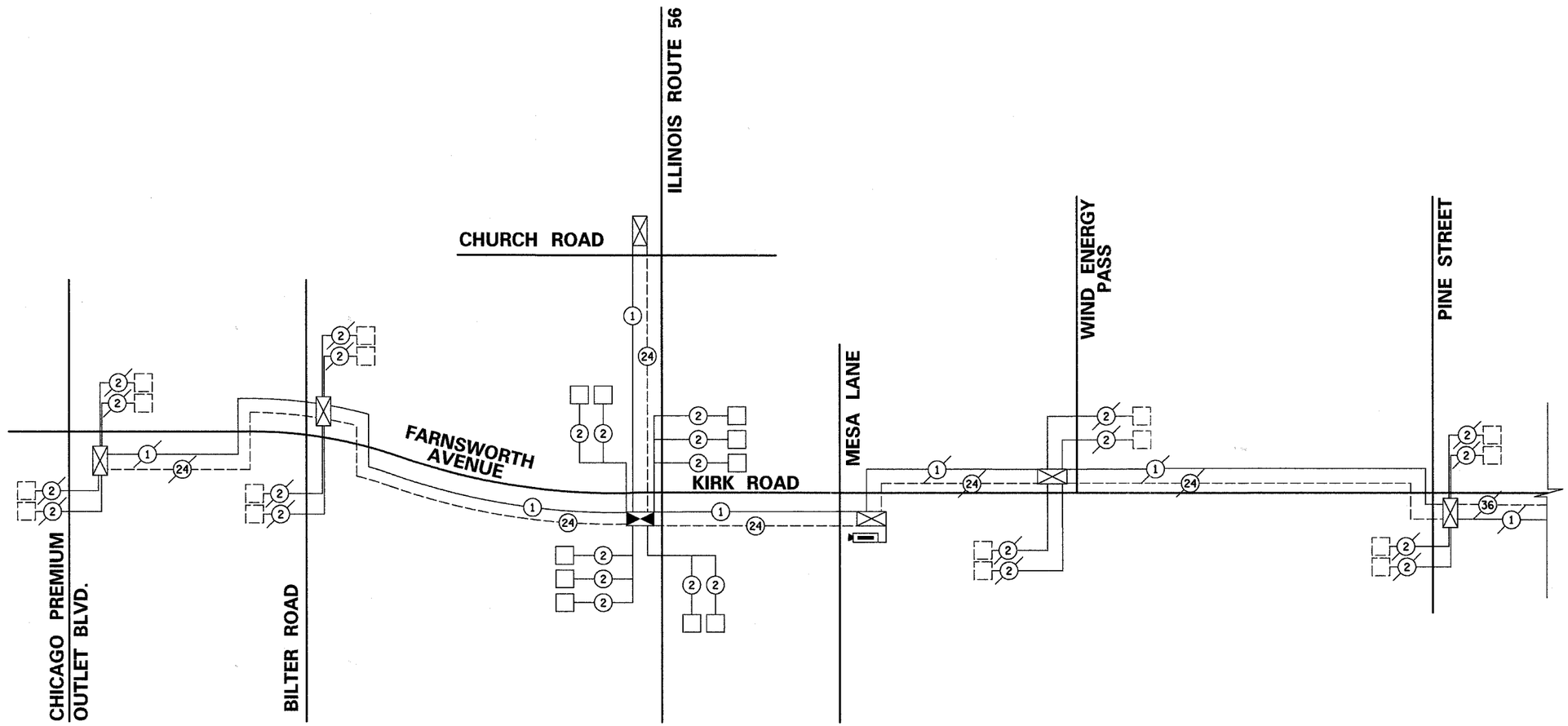
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	01-00273-00-CH	KANE	172	106
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83906

N.T.S.



INTERCONNECT SCHEMATIC LEGEND

- EXISTING INTERSECTION CONTROLLER
- PROPOSED INTERSECTION CONTROLLER
- EMC — EXISTING MASTER CONTROLLER
- MC — PROPOSED MASTER CONTROLLER
- MMC — MASTER MASTER CONTROLLER
- EXISTING INTERSECTION & SAMPLING (SYSTEM) DETECTORS
- PROPOSED INTERSECTION & SAMPLING (SYSTEM) DETECTORS
- P — EXISTING INTERSECTION LOOP DETECTORS PROPOSED SAMPLING (SYSTEM) DETECTORS
- ES — EXISTING SAMPLING (SYSTEM) DETECTORS
- PS — PROPOSED SAMPLING (SYSTEM) DETECTORS
- ESP — EXISTING SAMPLING (SYSTEM) DETECTORS PROPOSED INTERSECTION & SAMPLING (SYSTEM) DETECTORS
- ESPS — EXISTING SAMPLING (SYSTEM) DETECTORS PROPOSED SAMPLING (SYSTEM) DETECTORS
- PD — EXISTING PREFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS
- PD — PROPOSED PREFORMED INTERSECTION & SAMPLING (SYSTEM) DETECTORS
- ESPD — EXISTING SAMPLING (SYSTEM) PREFORMED DETECTORS
- PSPD — PROPOSEED SAMPLING (SYSTEM) PREFORMED DETECTORS
- (24) — EXISTING FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F
- (24) — PROPOSED FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F
- (12) — EXISTING INTERCONNECT CABLE - NO. 62.5/125 12F FIBER OPTIC CABLE
- (12) — PROPOSED INTERCONNECT CABLE - NO. 62.5/125 12F FIBER OPTIC CABLE
- (6) — EXISTING INTERCONNECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED
- (6) — PROPOSED INTERCONNECT CABLE - NO. 18 3 PAIR TWISTED, SHIELDED
- (2) — EXISTING LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED
- (2) — PROPOSED LOOP DETECTOR CABLE 2/C TWISTED, SHIELDED
- (1) — EXISTING ELECTRIC CABLE 1/C (AS SPECIFIED)
- (1) — PROPOSED ELECTRIC CABLE 1/C (AS SPECIFIED)
- T — EXISTING TELEPHONE CONNECTION
- T — PROPOSED TELEPHONE CONNECTION
- PAN-TITLT-ZOOM CAMERA

INTERCONNECT SCHEDULE OF QUANTITIES:

CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	801
CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL	FOOT	46
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	801
DRILL EXISTING HANDHOLE	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	3209
OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F	FOOT	3209

NOTES:
1. THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.
2. THE FIBER OPTIC AND TRACER CABLES FOR THE PROPOSED TRAFFIC SIGNAL INTERCONNECT TO BILTER ROAD WERE PROVIDED BY THE CITY OF AURORA AS PART OF AN ADJACENT ROADWAY IMPROVEMENT.

ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 56 AT KIRK / FARNSWORTH

INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES (SHEET 1 OF 2)

SCALE: VERT. N/A HORIZ. N.T.S.
DATE APR 06 2007
DRAWN BY BAH
CHECKED BY APS

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME — NOTE BOOK NO. — BY — DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHKD — NOTE BOOK NO. — BY — DATE

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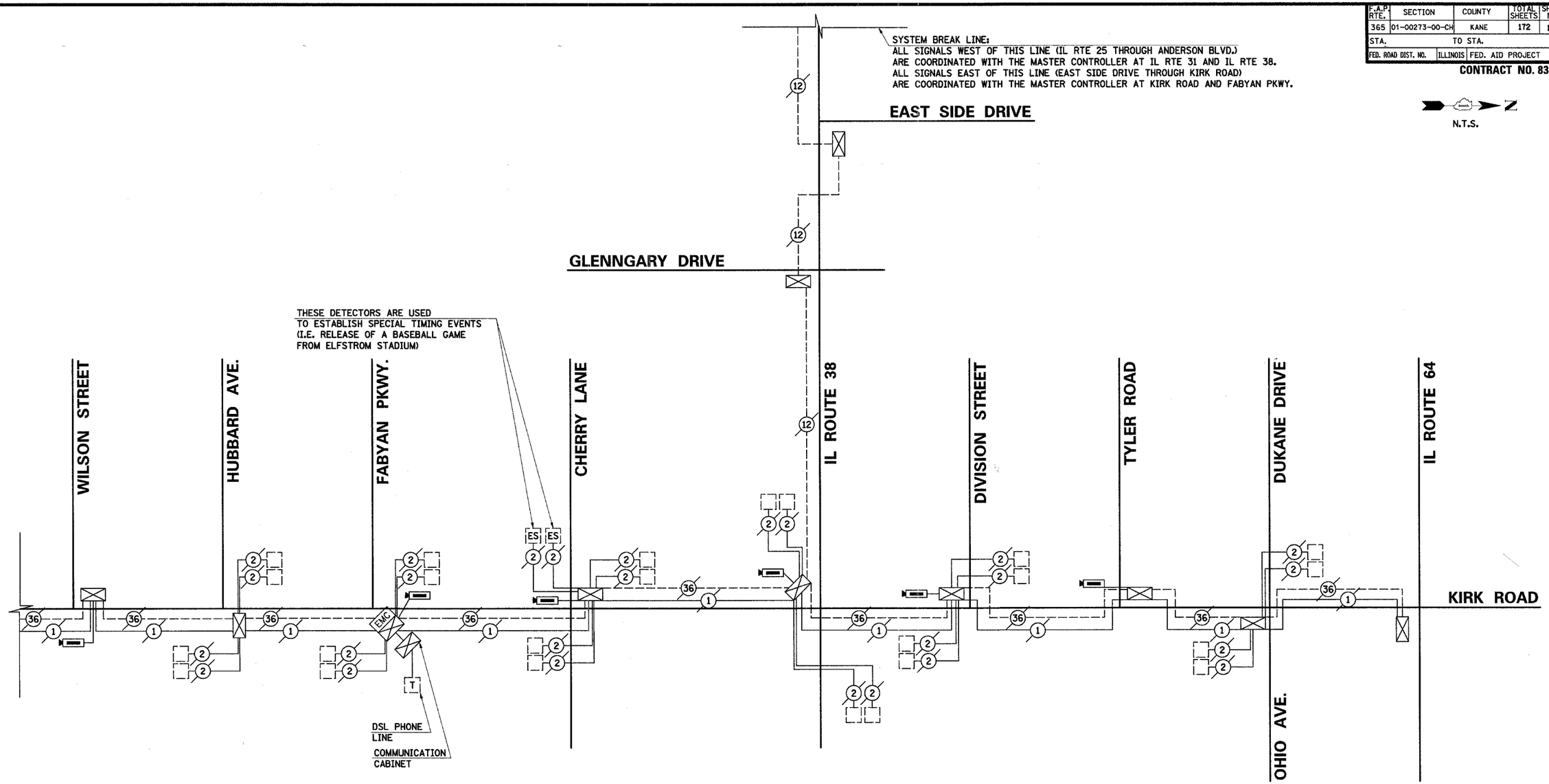
4/7/2007

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	01-00273-00-CH	KANE	172	107
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83906

N.T.S.



NOTE:
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 56 AT KIRK / FARNSWORTH

INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES (SHEET 2 OF 2)

SCALE: VERT. N/A HORIZ. N.T.S.
DATE APR 06 2007
DRAWN BY BAH
CHECKED BY APS

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
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NOTE BOOK
NO.
BY
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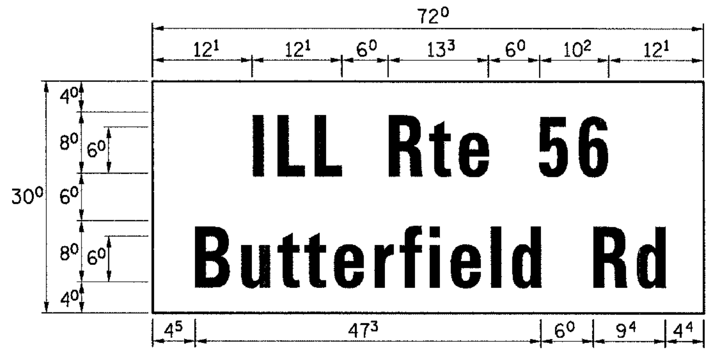
4/7/2007

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	01-00273-00-CH	KANE	172	108
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83906

EXAMPLE, 2③ DENOTES 3/8″

PANEL SIGN DESIGN TYPE 1



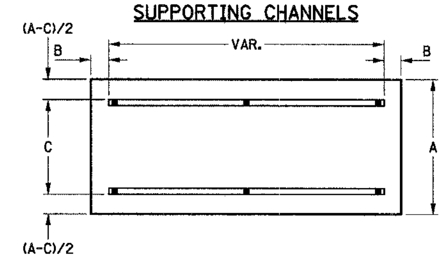
MA-1

15.0 Sq. Ft each

2 Required

Design Series C

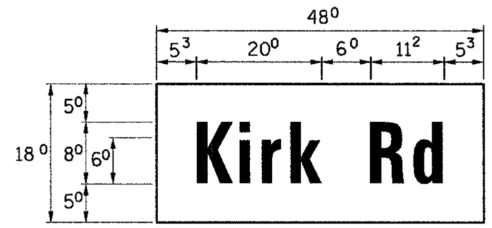
SUPPORTING CHANNELS



A	B	C
18″	2″	12″
30″	2″	22″

SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM shall be used. See Note #5

PANEL SIGN DESIGN TYPE 2

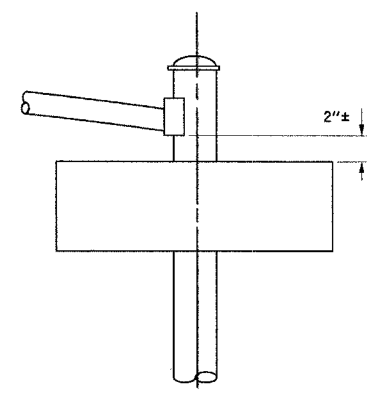


MA-2

6.0 Sq. Ft each

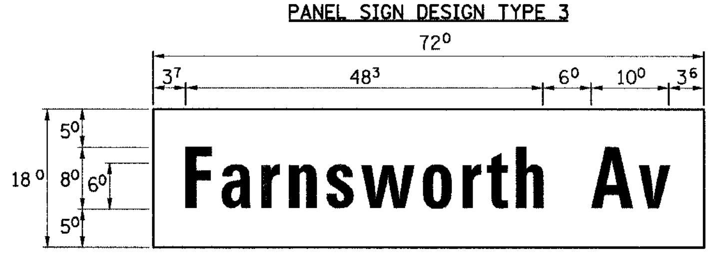
2 Required

Design Series D



SINGLE ARM

PANEL SIGN DESIGN TYPE 3

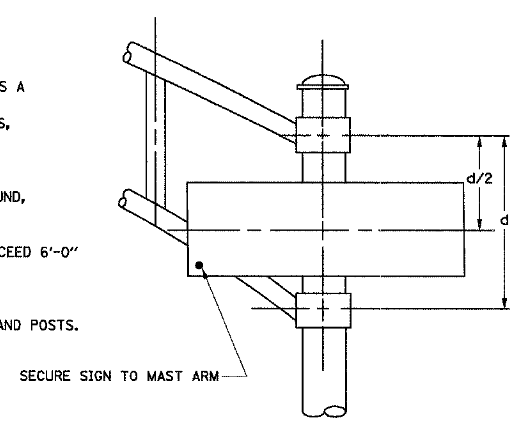


MA-3

9.0 Sq. Ft each

2 Required

Design Series C



DUAL ARM

GENERAL NOTES

1. WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 2374 THROUGH 2377, AS APPLICABLE, PLUS A 2′-6″ BY 6′-0″ SIGN PANEL MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
2. ALL SIGNS SHALL HAVE A WHITE REFLECTORIZED LEGEND AND BORDER ON A GREEN REFLECTORIZED BACKGROUND, TYPE A SHEETING.
3. THE SIGN LENGTH SHOULD BE INCREASED IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHOULD NOT EXCEED 6′-0″
4. ALL BORDERS SHALL BE 3/4″ WIDE AND CORNER RADIUS SHALL BE 2 1/4″.
5. SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS OF THE SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM ARE:

- A.K.T. CORPORATION
  SCHAUMBURG, IL.
- AMERICAN FABRICATION CO.
  CHICAGO HEIGHTS, IL.
- TUCKER COMPANY, INC.
  WAUWATOSA, WI.
- WESTERN TRAFFIC CONTROL, INC.
  CICERO, IL.

PARTS LISTING:

SIGN CHANNEL	PART 3HPN053 (MED. CHANNEL)
SIGN SCREWS	1/4″ X 14 X 1″ H.W.H. #3 SELF TAPPING WITH NEOPREAM WASHER
BRACKETS	PART #HPN034 (UNIVERSAL) CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BRACKET OF THE ABOVE PRODUCT.

Upper Case To Lower Case
Spacing Chart 8-6 Inch Series "C & D"

FIRST LETTER	SECOND LETTER: a c d e g o q		b h i k l m n p r u		f w		j		s t		v y		x		z	
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
A W X	1^{2}	1^{4}	1^{4}	1^{5}	1^{2}	1^{4}	0^{6}	1^{0}	1^{1}	1^{4}	0^{6}	1^{0}	1^{1}	1^{2}	1^{2}	1^{4}
B	1^{4}	1^{5}	2^{0}	2^{1}	1^{4}	1^{5}	1^{1}	1^{2}	1^{4}	1^{5}	1^{2}	1^{4}	1^{2}	1^{4}	1^{6}	1^{7}
C E G	1^{4}	1^{5}	2^{0}	2^{1}	1^{2}	1^{4}	0^{6}	1^{0}	1^{2}	1^{4}	1^{2}	1^{4}	1^{4}	1^{5}	1^{4}	1^{5}
D O Q R	1^{4}	1^{5}	2^{0}	2^{1}	1^{4}	1^{5}	0^{6}	1^{0}	1^{2}	1^{4}	1^{2}	1^{4}	1^{4}	1^{5}	1^{4}	1^{5}
F	0^{5}	0^{6}	1^{4}	1^{5}	0^{6}	1^{0}	0^{5}	0^{6}	0^{6}	1^{0}	0^{6}	1^{0}	0^{6}	1^{0}	1^{1}	1^{2}
H I M N	2^{0}	2^{1}	2^{2}	2^{4}	2^{0}	2^{1}	1^{4}	1^{5}	1^{6}	1^{7}	1^{6}	1^{7}	2^{0}	2^{1}	2^{0}	2^{1}
J U	2^{0}	2^{1}	2^{0}	2^{1}	1^{6}	1^{7}	1^{4}	1^{5}	1^{6}	1^{7}	1^{6}	1^{7}	1^{6}	1^{7}	2^{0}	2^{1}
K L	1^{1}	1^{2}	1^{6}	1^{7}	1^{1}	1^{2}	0^{5}	0^{6}	1^{1}	1^{2}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}
P	1^{2}	1^{4}	1^{4}	1^{5}	1^{2}	1^{4}	0^{5}	0^{6}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}	1^{2}	1^{4}
S	1^{2}	1^{4}	1^{6}	1^{7}	1^{2}	1^{4}	0^{6}	1^{0}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}
T	1^{1}	1^{2}	1^{6}	1^{7}	0^{6}	1^{0}	0^{6}	1^{0}	1^{1}	1^{2}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}
V	0^{6}	1^{0}	1^{4}	1^{5}	1^{1}	1^{2}	0^{6}	1^{0}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}
Y	0^{5}	0^{6}	1^{4}	1^{5}	0^{6}	1^{0}	0^{5}	0^{6}	0^{5}	0^{7}	0^{5}	0^{6}	0^{6}	1^{0}	1^{1}	1^{2}
Z	1^{6}	1^{7}	2^{2}	2^{4}	1^{6}	1^{7}	1^{2}	1^{4}	1^{6}	1^{7}	1^{6}	1^{7}	1^{6}	1^{7}	2^{0}	2^{1}

Lower Case To Lower Case
Spacing Chart 6 Inch Series "C & D"

FIRST LETTER	SECOND LETTER: a c d e g o q		b h i k l m n p r u		f w		j		s t		v y		x		z	
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
a d h g i j l m n q u	1^{6}	1^{7}	2^{2}	2^{4}	1^{6}	1^{7}	1^{2}	1^{4}	1^{4}	1^{5}	1^{4}	1^{5}	1^{6}	1^{7}	1^{6}	1^{7}
b f k o p s	1^{2}	1^{4}	1^{6}	1^{7}	1^{1}	1^{2}	0^{5}	0^{6}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}	1^{2}	1^{4}
c e	1^{2}	1^{4}	1^{6}	1^{7}	1^{2}	1^{4}	0^{6}	1^{0}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}	1^{2}	1^{4}
r	0^{6}	1^{0}	1^{2}	1^{4}	0^{6}	1^{0}	0^{3}	0^{3}	0^{5}	0^{6}	0^{5}	0^{6}	0^{6}	1^{0}	0^{6}	1^{0}
t z	1^{2}	1^{4}	1^{6}	1^{7}	1^{2}	1^{4}	0^{6}	1^{0}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}	1^{2}	1^{4}
v y	1^{1}	1^{2}	1^{4}	1^{5}	1^{1}	1^{2}	0^{5}	0^{6}	0^{6}	1^{0}	0^{6}	1^{0}	1^{1}	1^{2}	1^{1}	1^{2}
w	1^{1}	1^{2}	1^{4}	1^{5}	1^{1}	1^{2}	0^{5}	0^{6}	1^{1}	1^{2}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}
x	1^{2}	1^{4}	1^{6}	1^{7}	1^{1}	1^{2}	0^{5}	0^{6}	1^{1}	1^{2}	1^{1}	1^{2}	1^{1}	1^{2}	1^{2}	1^{4}

Number To Number
Spacing Chart 8 Inch Series "C & D"

FIRST NUMBER	SECOND LETTER: 0		1		2		3		4		5		6		7		8		9	
SERIES	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D	C	D
0 9	1^{6}	1^{7}	1^{6}	1^{7}	1^{4}	1^{5}	1^{2}	1^{4}	1^{4}	1^{5}	1^{4}	1^{5}	1^{6}	1^{7}	1^{2}	1^{4}	1^{6}	1^{7}	1^{6}	1^{7}
1	2^{0}	2^{1}	2^{0}	2^{1}	2^{0}	2^{1}	1^{6}	1^{7}	1^{4}	1^{5}	2^{0}	2^{1}	2^{0}	2^{1}	1^{4}	1^{5}	2^{0}	2^{1}	2^{0}	2^{1}
2 3 4	1^{4}	1^{5}	1^{4}	1^{5}	1^{4}	1^{5}	1^{2}	1^{4}	1^{2}	1^{4}	1^{4}	1^{5}	1^{4}	1^{5}	1^{1}	1^{2}	1^{6}	1^{7}	1^{4}	1^{5}
5	1^{4}	1^{5}	1^{4}	1^{5}	1^{4}	1^{5}	1^{1}	1^{2}	1^{1}	1^{2}	1^{4}	1^{5}	1^{4}	1^{5}	1^{1}	1^{2}	1^{4}	1^{5}	1^{4}	1^{5}
6	1^{6}	1^{7}	1^{4}	1^{5}	1^{4}	1^{5}	1^{2}	1^{5}	1^{2}	1^{4}	1^{4}	1^{5}	1^{4}	1^{5}	1^{1}	1^{2}	1^{4}	1^{5}	1^{4}	1^{5}
7	1^{2}	1^{4}	1^{2}	1^{4}	1^{4}	1^{5}	1^{2}	1^{5}	0^{5}	0^{6}	1^{2}	1^{4}	1^{4}	1^{5}	1^{1}	1^{2}	1^{4}	1^{5}	1^{2}	1^{4}
8	1^{6}	1^{7}	1^{6}	1^{7}	1^{4}	1^{5}	1^{2}	1^{5}	1^{2}	1^{4}	1^{4}	1^{5}	1^{6}	1^{7}	1^{2}	1^{4}	1^{6}	1^{7}	1^{4}	1^{5}

LETTERS	6 INCH UPPER CASE LETTERS SERIES C	D	8 INCH UPPER CASE LETTERS SERIES C	D	LETTERS	6 INCH LOWER CASE LETTERS SERIES C	D
A	3^{6}	5^{0}	5^{0}	6^{5}	a	3^{5}	4^{2}
B	3^{2}	4^{0}	4^{3}	5^{3}	b	3^{5}	4^{2}
C	3^{2}	4^{0}	4^{3}	5^{3}	c	3^{5}	4^{1}
D	3^{2}	4^{0}	4^{3}	5^{3}	d	3^{5}	4^{2}
E	3^{0}	3^{5}	4^{0}	4^{7}	e	3^{5}	4^{2}
F	3^{0}	3^{5}	4^{0}	4^{7}	f	2^{3}	2^{6}
G	3^{2}	4^{0}	4^{3}	5^{3}	g	3^{5}	4^{2}
H	3^{2}	4^{0}	4^{3}	5^{3}	h	3^{5}	4^{2}
I	0^{7}	0^{7}	1^{1}	1^{2}	i	1^{1}	1^{1}
J	3^{0}	3^{6}	4^{0}	5^{0}	j	2^{0}	2^{2}
K	3^{2}	4^{1}	4^{3}	5^{4}	k	3^{5}	4^{2}
L	3^{0}	3^{5}	4^{0}	4^{7}	l	1^{1}	1^{1}
M	3^{7}	4^{5}	5^{1}	6^{1}	m	6^{0}	7^{0}
N	3^{2}	4^{0}	4^{3}	5^{3}	n	3^{5}	4^{2}
O	3^{4}	4^{2}	4^{5}	5^{5}	o	3^{6}	4^{3}
P	3^{2}	4^{0}	4^{3}	5^{3}	p	3^{5}	4^{2}
Q	3^{4}	4^{2}	4^{5}	5^{5}	q	3^{5}	4^{2}
R	3^{2}	4^{0}	4^{3}	5^{3}	r	2^{6}	3^{2}
S	3^{2}	4^{0}	4^{3}	5^{3}	s	3^{6}	4^{2}
T	3^{0}	3^{5}	4^{0}	4^{7}	t	2^{7}	3^{2}
U	3^{2}	4^{0}	4^{3}	5^{3}	u	3^{5}	4^{2}
V	3^{5}	4^{4}	4^{7}	6^{0}	v	4^{2}	4^{7}
W	4^{4}	5^{2}	6^{0}	7^{0}	w	5^{5}	6^{4}
X	3^{4}	4^{0}	4^{5}	5^{3}	x	4^{4}	5^{1}
Y	3^{6}	5^{0}	5^{0}	6^{6}	y	4^{6}	5^{3}
Z	3^{2}	4^{0}	4^{3}	5^{3}	z	3^{6}	4^{3}

NUMBER	6 INCH SERIES C	D	8 INCH SERIES C	D
1	1^{2}	1^{4}	1^{5}	2^{0}
2	3^{2}	4^{0}	4^{3}	5^{3}
3	3^{2}	4^{0}	4^{3}	5^{3}
4	3^{5}	4^{3}	4^{7}	5^{7}
5	3^{2}	4^{0}	4^{3}	5^{3}
6	3^{2}	4^{0}	4^{3}	5^{3}
7	3^{2}	4^{0}	4^{3}	5^{3}
8	3^{2}	4^{0}	4^{3}	5^{3}
9	3^{2}	4^{0}	4^{3}	5^{3}
0	3^{4}	4^{2}	4^{5}	5^{5}

ILLINOIS DEPARTMENT OF TRANSPORTATION
ILLINOIS ROUTE 56 AT KIRK / FARNSWORTH

MAST ARM MOUNTED STREET NAME SIGNS

SCALE: VERT. N/A HORIZ. N/A
DATE APR 06 2007
DRAWN BY BAH
CHECKED BY APS

PLAN		
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	ALIGNMENT CHECKED	
	RT. OF WAY CHECKED	
	CADD FILE NAME	
BY	DATE	

PROFILE		
NOTE BOOK	SURVEYED	
NO.	PLOTTED	
	GRADES CHECKED	
	B.M. NOTED	
	STRUCTURE NOTAT'NS CH'KD	
BY	DATE	

y:*jobs*smith*2001*010321_ko_rte56*cad*fin_dwg*321_sig7.dgn
4/7/2007

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	01-00273-00-CH	KANE	172	109
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83906

CONTRACT NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.

2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.

3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.

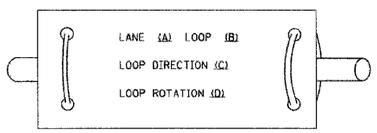
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.

6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.

7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

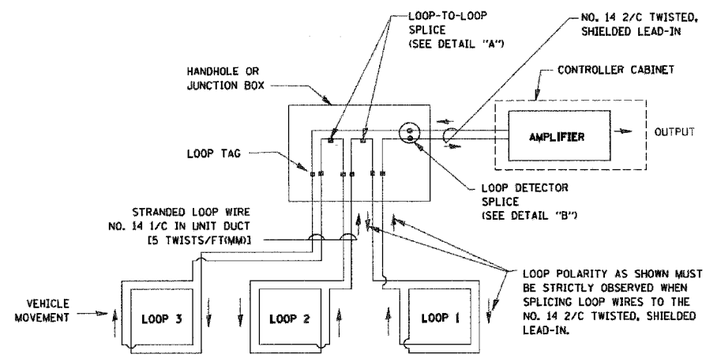


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

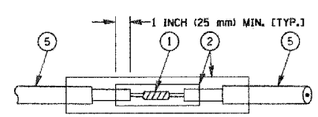
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

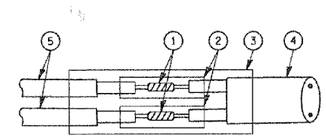


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm), IF IN CONCRETE. THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

1. WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
2. WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
3. WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
4. NO. 14 2/C TWISTED, SHIELDED CABLE.
5. LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

REVISIONS	
NAME	DATE
CADD	5/30/00
ADD NOTE NO. 8	11/12/01
BUREAU OF TRAFFIC	1-01-02

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

SCALE: NONE

DATE: 2/15/2006

DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAZ
SHEET 1 OF 4

TS05

REVISION DATE: 01/01/02

PLOT DATE = 2/15/2006
FILE NAME = h:\d0ss\ts05.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = dmp\armdsx

PLAN | SURVEYED | PLOTTED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK NO. | BY | DATE

PROFILE | SURVEYED | PLOTTED | GRADES CHECKED | B.M. NOTED | STRUCTURE NOTAT'NS CH'KD | NOTE BOOK NO. | BY | DATE

y:\ehldesmnt\hwy2001\01031-ks_rte56&kcdsmf\tc_dwgs\ts21_ds101.dgn
4/7/2007

ILLINOIS DEPARTMENT OF TRANSPORTATION
ILLINOIS ROUTE 56 AT KIRK / FARNSWORTH

STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

SCALE: VERT. HORIZ.

DATE APR 06 2007

DRAWN BY BAH

CHECKED BY APS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	01-00273-00-CH	KANE	172	110
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

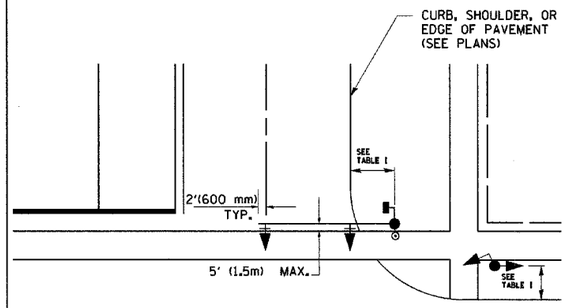
CONTRACT NO. 83906

CONTRACT NO.

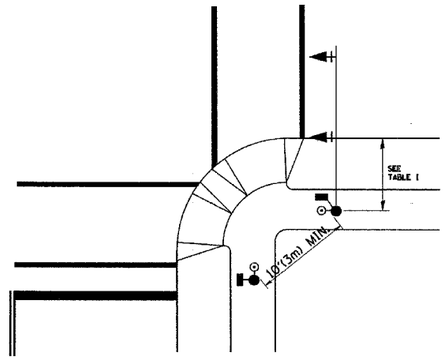
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL MAST ARM AND POST

MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR



PEDESTRIAN SIGNAL PUSHBUTTON



RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCD (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

NOTES:

1. AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION, EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.

   AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.

   PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:

   A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.

   B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.

   C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.

   D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).

   E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK

2. PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK BEING USED.

3. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.

4. THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

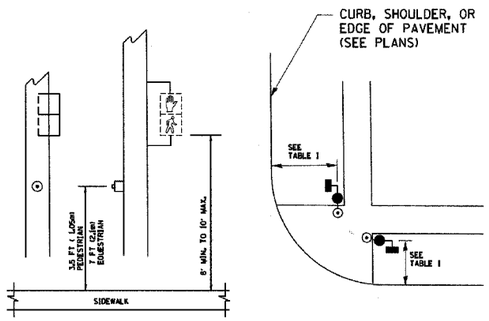


TABLE I

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB)	SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m)
PEDESTRIAN PUSHBUTTON	SEE NOTE 1	SEE NOTE 1

REVISIONS	
NAME	DATE
BUREAU OF TRAFFIC	1/01/02

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

SCALE: NONE
DATE: 1/17/2007

DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAZ
SHEET 2 OF 4

TS05

REVISION DATE: 01/01/02

PLAN		BY	DATE
	SURVEYED		
	PLOTTED		
	ALIGNMENT CHECKED		
	RT.-OF-WAY CHECKED		
NOTE BOOK	CADD FILE NAME		
NO.			

PROFILE		BY	DATE
	SURVEYED		
	PLOTTED		
	GRADES CHECKED		
NOTE BOOK	B.M. NOTED		
NO.	STRUCTURE NOTAT'NS CHKD		

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4/7/2007

ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 56 AT KIRK / FARNSWORTH

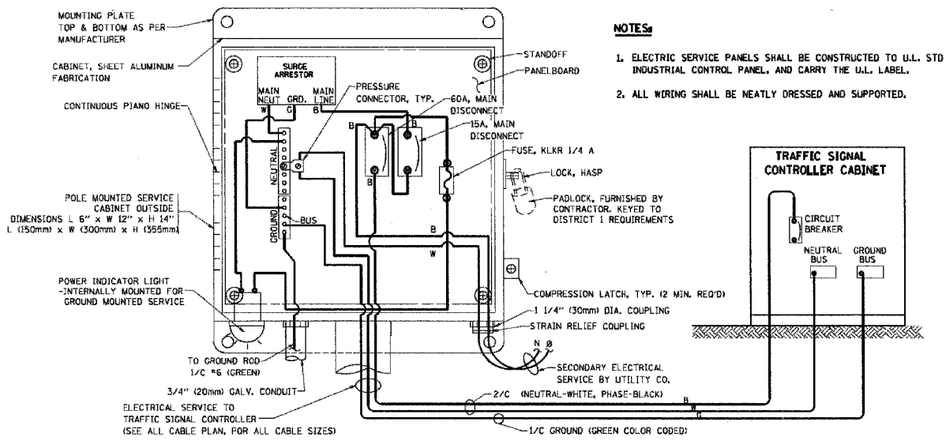
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: VERT. HORIZ.
DATE: APR 06 2007

DRAWN BY: BAH
CHECKED BY: APS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	01-00273-00-CH	KANE	172	111
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83906



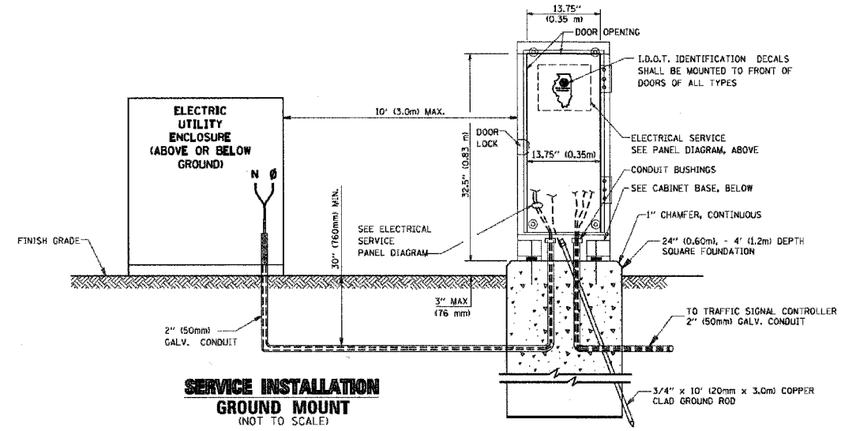
NOTES:

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

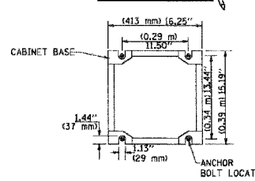
SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)



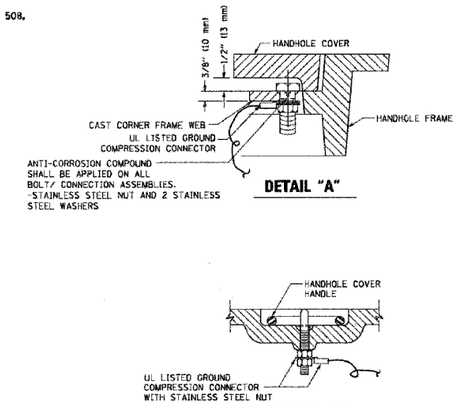
SERVICE INSTALLATION GROUND MOUNT

(NOT TO SCALE)



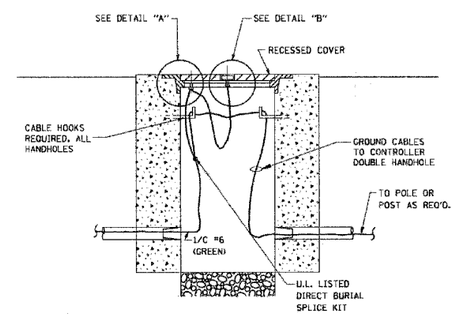
CABINET – BASE BOLT PATTERN

(NOT TO SCALE)



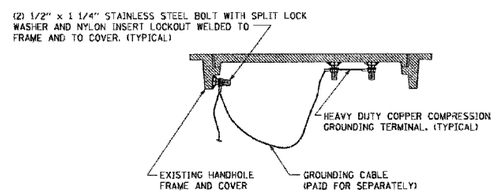
DETAIL "A"

DETAIL "B"



HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



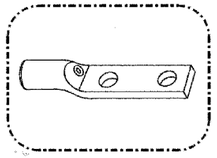
EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)

NOTES:

GROUNDING SYSTEM

1. THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
2. THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

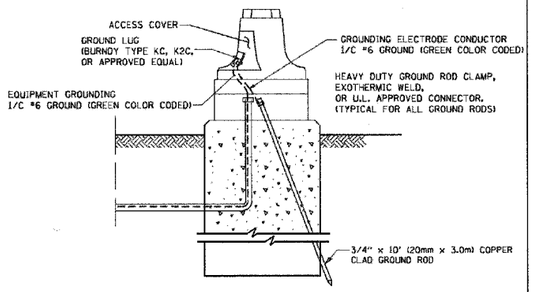


HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)

3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EUAL)

NOTES:

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES
  6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES
  13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES.
  5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



MAST ARM POLE / POST-GROUNDING DETAIL

(NOT TO SCALE)

REVISIONS	
NAME	DATE
CADD	5/30/00
CADD	3/15/01
BUREAU OF TRAFFIC	1/01/02

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

SCALE: NONE
DATE: 2/15/2006

DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAZ
SHEET 3 OF 4

TS05

REVISION DATE: 01/01/02

ILLINOIS DEPARTMENT OF TRANSPORTATION
ILLINOIS ROUTE 56 AT KIRK / FARNSWORTH

STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

SCALE: VERT. HORIZ.
DATE APR 06 2007

DRAWN BY BAH
CHECKED BY APS

PLAN: SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATIONS CHKD, NOTE BOOK NO., CADD FILE NAME, BY, DATE

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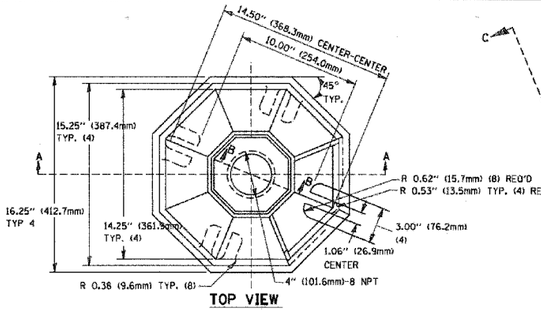
4/7/2007

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	01-00273-00-CH	KANE	172	112
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

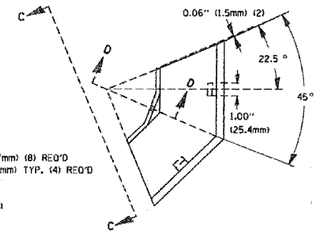
CONTRACT NO. 83906

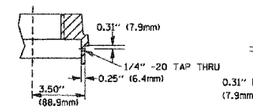
CONTRACT NO.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

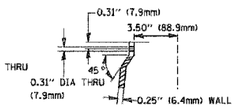


TOP VIEW





SECTION B-B



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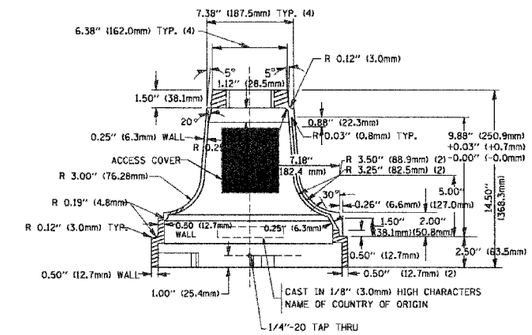
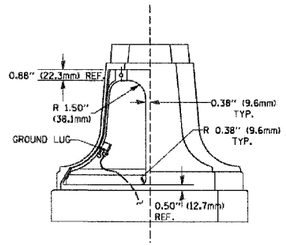
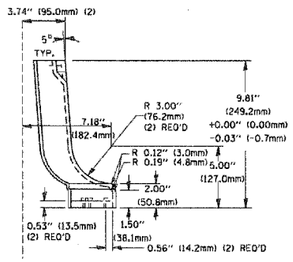


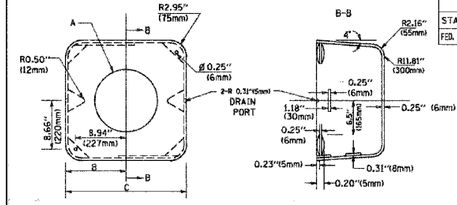
SECTION A-A



VIEW C-C



TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A

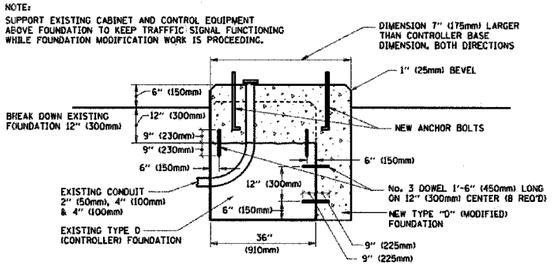


MATERIAL:
- ASTM A48 CLASS 30 GREY IRON
- ASTM A123 HOT DIPPED GALVANIZED

TYPE	A	B	C	HEIGHT	WEIGHT
I	ø 10.125"(257mm)	9.5"(241mm)	19"(483mm)	12" (300mm)	24kg
II	ø 11.125"(283mm)	10.75"(273mm)	21.5"(546mm)	12" (300mm)	26kg

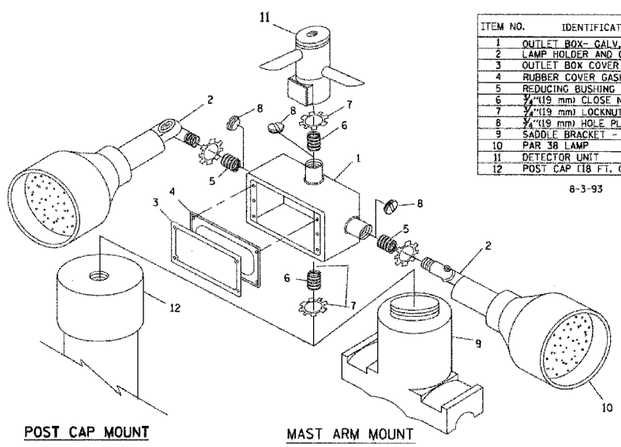
SHROUD DETAIL

NOTE:
SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION

(NOT TO SCALE)



POST CAP MOUNT

MAST ARM MOUNT

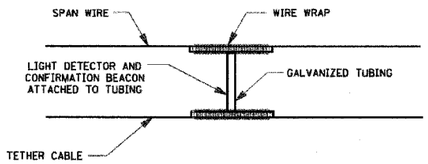
EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0.000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	¾"(19 mm) CLOSE NIPPLE
7	¾"(19 mm) LOCKNUT
8	¾"(19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	PAR 38 LAMP
11	DETECTOR UNIT
12	POST CAP (18 FT. (5.4 m) POST MIN.)

8-3-93

NOTES:

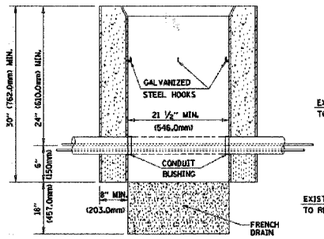
1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
   ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
   ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A ¾"(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



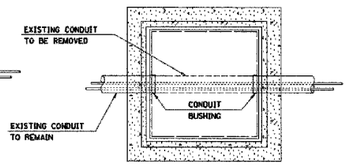
LIGHT DETECTOR AND CONFIRMATION BEACON MOUNTING FOR TEMPORARY TRAFFIC SIGNALS

(NOT TO SCALE)

NOTES:
1. REMOVAL OF EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHING SHALL BE INCIDENTAL TO THE HANDHOLE.



ELEVATION



PLAN

DETAIL
HANDHOLE TO INTERCEPT EXISTING CONDUIT
N.T.S.

REVISIONS	
NAME	DATE
BUREAU OF TRAFFIC	5/30/00
BUREAU OF TRAFFIC	3/15/01
BUREAU OF TRAFFIC	11/12/01
BUREAU OF TRAFFIC	1-01-02

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE
DATE: 2/15/2006

DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAZ
SHEET 4 OF 4

TS05

REVISION DATE: 01/01/02

PLAN | SURVEYED | PLOTTED | ALIGNMENT CHECKED | RT. OF WAY CHECKED | CADD FILE NAME | NOTE BOOK NO. | BY | DATE

PROFILE | SURVEYED | PLOTTED | GRADES CHECKED | BLM NOTED | STRUCTURE NOTATNS CHKD | NOTE BOOK NO. | BY | DATE

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4/7/2007

ILLINOIS DEPARTMENT OF TRANSPORTATION
ILLINOIS ROUTE 56 AT KIRK / FARNSWORTH

STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: VERT. HORIZ.
DATE APR 06 2007

DRAWN BY BAH
CHECKED BY APS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	01-00273-00-CH	KANE	172	113
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

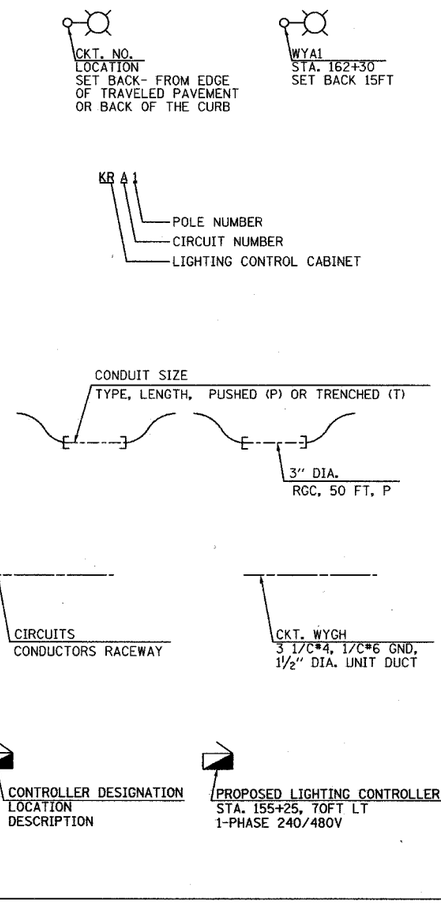
CONTRACT NO. 83906

LEGEND (IDOT)

- PROPOSED LIGHTING UNIT 47.5' M.H., 15' M.A., 400W, 240V HPS LUMINAIRE TRANSFORMER BASE
- PROPOSED COMBINATION LIGHTING UNIT 45' M.H., 15' M.A., 400W, 240V HPS LUMINAIRE
- TEMPORARY LIGHTING UNIT 50' M.H., 15' M.A., 400W, 240V HPS LUMINAIRE MOUNTED ON WOOD POLE
- TEMPORARY COMBINATION LIGHTING UNIT 50' M.H., 15' M.A., 400W, 240V HPS LUMINAIRE MOUNTED ON TEMPORARY TRAFFIC SIGNAL WOOD POLE
- EXISTING LIGHTING UNIT TO REMAIN
- EXISTING LIGHTING UNIT TO BE REMOVED
- RIGID GALVANIZED STEEL CONDUIT (RGC) PUSHED (P), OR TRENCHED (T) SIZE AS INDICATED
- UNIT DUCT, AS SPECIFIED IN PLANS
- A/C — AERIAL CABLE WITH MESSENGER WIRE
- EXISTING LIGHTING CONTROLLER
- WOOD POLE
- ELECTRIC GROUND ROD

CALL-OUT SAMPLES

DEFINITION	EXAMPLE



ABBREVIATIONS

SYMBOL	DESCRIPTION
AC	ALTERNATING CURRENT
A/C	AERIAL CABLE
AFG	ABOVE FINISHED GRADE
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CM	CENTIMETER
CNC	COILABLE NONMETALLIC CONDUIT
CT	CURRENT TRANSFORMER
CP	CONTROL PANEL
DA	DAVIT ARM
DC	DIRECT CURRENT
DIA	DIAMETER
DP	DISTRIBUTION PANEL
E	EXISTING UNIT TO REMAIN
ECA	ELECTRIC CABLE ASSEMBLY
EM	EXISTING UNIT TO BE MODIFIED (e.g. NEW LUMINAIRE, BALLAST OR MAST ARM)
ER	EXISTING RELOCATED UNIT
ET	EXISTING TEMPORARY UNIT TO REMAIN
ETR	EXISTING TEMPORARY RELOCATED UNIT
FT	FEET OR FOOT
FND BW	FOUNDATION BARRIER WALL
FND BW OS	FOUNDATION BARRIER WALL OFFSET
FND CON	FOUNDATION CONCRETE
FND CON OS	FOUNDATION CONCRETE OFFSET
FND MET	FOUNDATION METAL
FND PW	FOUNDATION PARAPET WALL
FU	FUSE
GND	GROUND
HID	HIGH INTENSITY DISCHARGE
JB	JUNCTION BOX
KVA	KILOVOLT-AMPERE
KW	KILOWATTS
M	METER
MA	MAST ARM
MM	MILLIMETER
MH	MOUNTING HEIGHT
NO. *	NUMBER
P	PROPOSED
PB	PUSH BUTTON
PNL	PANEL
PVCC RGC	PVC COATED RIGID GALVANIZED CONDUIT
PT	POTENTIAL TRANSFORMER
R	EXISTING UNIT TO BE REMOVED (OWNER SALVAGED U.N.O.)
RR	EXISTING UNIT TO BE REMOVED AND REINSTALLED
RECP	RECEPTACLE
RGC	RIGID GALVANIZED CONDUIT
SEL SW	SELECTOR SWITCH
SPARE	SPARE
SPACE	SPACE
SS	STAINLESS STEEL
STA	STATION
T	TEMPORARY LIGHTING UNIT
TB	TRANSFORMER BASE
TMP	TEMPORARY
TR	TEMPORARY UNIT TO BE REMOVED. SALVAGE EQUIPMENT AS SPECIFIED
TRR	TEMPORARY UNIT TO BE REMOVED AND RELOCATED
TUR	TEMPORARY UNIT ON UTILITY POLE TO BE REMOVED
UD	UNIT DUCT
U.N.O.	UNLESS NOTED OTHERWISE
WP	WOOD POLE
XFMR	TRANSFORMER

GENERAL NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL OF THE INFORMATION SHOWN ON THE CONTRACT DRAWINGS, WHICH WOULD AFFECT THE WORK UNDER THIS CONTRACT.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS PROJECT, SPECIFICALLY AS THEY RELATE TO LUMP SUM ITEMS AND UNIT PRICE ITEMS.
3. ALL NEW CONDUITS, UNIT DUCTS, DIRECT BURIAL CABLES, AND APPURTENANCES ARE INDICATED DIAGRAMMATICALLY ON THE DRAWINGS. THE ACTUAL LOCATIONS IN THE FIELD SHALL MEET WITH APPROVAL OF THE ENGINEER.
4. THE ELECTRICAL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ASSOCIATED SUPPLEMENTAL CONDITIONS.
5. THE SCALE SHOWN ON PLAN DRAWINGS APPLIES ONLY TO THE FULL SIZE PLANS AND NOT TO REDUCED SIZE PLANS.
6. THE CONTRACTOR SHALL FURNISH AND INSTALL LUMINAIRE LAMPS IN ACCORDANCE WITH THE SUPPLIER'S RECOMMENDATIONS AND IN ACCORDANCE WITH THE SPECIFICATIONS. THE COST OF THIS WORK AND MATERIAL SHALL BE INCLUDED IN THE APPLICABLE LUMINAIRE PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
7. ALL LUMINAIRES SHALL BE ORIENTED WITH THE OPTICS PERPENDICULAR TO THE ROADWAY UNLESS OTHERWISE INDICATED OR DIRECTED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE APPLICABLE LUMINAIRE PAY ITEMS. SEPARATE PAYMENT WILL NOT BE MADE.
8. CONDUITS AND UNIT DUCTS SHALL BE INSTALLED AT A MINIMUM 30" DEPTH BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH ROADWAY UNDERDRAINS AND OTHER EXISTING AND PROPOSED UTILITIES. THE CONTRACTOR SHALL INCREASE DEPTH OF UNIT DUCT AND CONDUIT AS REQUIRED AT NO ADDITIONAL COST TO THE STATE. THE CONTRACTOR SHALL COORDINATE RACEWAY DEPTH WITH THE ELECTRICAL DETAILS AND THE ENGINEER.
9. WHERE MULTIPLE CONDUITS ADJACENT TO EACH OTHER ARE INSTALLED IN A COMMON TRENCH, TRENCH AND BACKFILL WILL NOT BE PAID FOR EACH CONDUIT, BUT WILL BE PAID FOR THE LENGTH OF THE COMMON TRENCH ONLY.
10. WHERE THE CONTRACTOR'S EXCAVATION MEETS AN OBSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR DIRECTION IN WRITING PRIOR TO EXCAVATION. THE CONTRACTOR SHALL RESTORE ANY DAMAGE TO EXISTING SYSTEMS OR UTILITIES AND REMOVE EXISTING OBSTRUCTIONS AND FOUNDATIONS TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE APPROPRIATE PAY ITEM.
11. TRANSFORMER BASE, 9" BREAKAWAY DEVICE SHALL BE INSTALLED WITH 15" BOLT CIRCLE ON 24" DIA. FOUNDATION AS SHOWN IN THE PLANS .

P.K. GANDHI 34993 REGISTERED PROFESSIONAL ENGINEER OF ILLINOIS

P.K. Gandhi. 4/5/07

P.K. GANDHI, P.E.
NO. 34993
EXPIRES: 11/30/07
GANDHI AND ASSOCIATES, INC.
APPLIES TO SHEET 113 TO 126.

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
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SUITE 306
CHICAGO, ILLINOIS 60631 TEL. (773) 774-5910

ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 56 AT KIRK / FARNSWORTH

LIGHTING LEGEND & GENERAL NOTES

SCALE: NONE | DRAWN BY: RDP
DATE: 04/06/07 | CHECKED BY: MAE

#FILE# #DATE#

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	01-00273-00-CH	KANE	172	114
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83906

SUMMARY OF QUANTITIES

IDOT PAY ITEM NO.	DESIGNATION	UNIT	CONTRACT TOTAL	RECORD TOTAL
81018700	CONDUIT PUSHED, 3" DIA., GALVANIZED STEEL	FOOT	954	
80700140	GROUND ROD, 5/8" X 10 FT.	EACH	56	
81800400	AERIAL CABLE, 4-1/C NO. 2 WITH MESSENGER WIRE	FOOT	4770	
81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	4561	
82102400	LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT	EACH	64	
83050810	LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM	EACH	24	
83057350	LIGHT POLE, WOOD, 60 FOOT, CLASS 4	EACH	1	
83057355	LIGHT POLE, WOOD, 60 FOOT, CLASS 4, WITH 15FT MAST ARM	EACH	28	
83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	240	
83800205	BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	24	
84200500	REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE	EACH	9	
84200700	LIGHTING FOUNDATION REMOVAL	EACH	9	
X0321994	UNIT DUCT, WITH 4-1/C NO. 4 AND 1/C NO. 6 GROUND, 600V (EPR-TYPE RHW), 1 1/2" DIA., POLYETHYLENE	FOOT	5680	
X0322696	MAST ARM, STEEL, STREET LIGHTING, 15 FT	EACH	7	
X0323574	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	13	
X0324387	LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	28	

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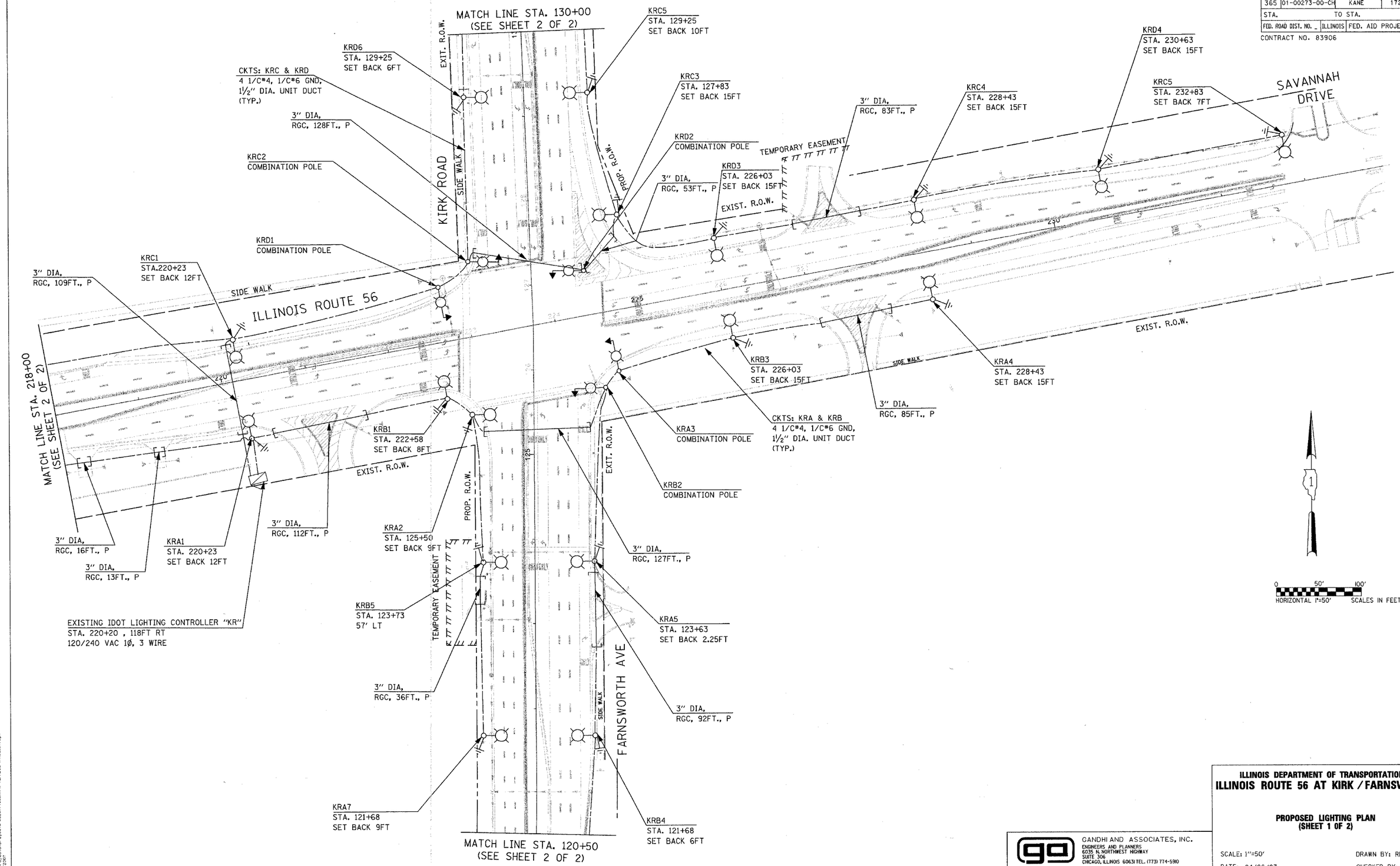
ILLINOIS DEPARTMENT OF TRANSPORTATION
ILLINOIS ROUTE 56 AT KIRK / FARNSWORTH

SCHEDULE OF ELECTRICAL QUANTITIES

SCALE: NONE
DRAWN BY: RDP
DATE: 04/06/07
CHECKED BY: MAE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	01-00273-00-CH	KANE	172	115
STA.		TO STA.		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83906



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ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 56 AT KIRK / FARNSWORTH

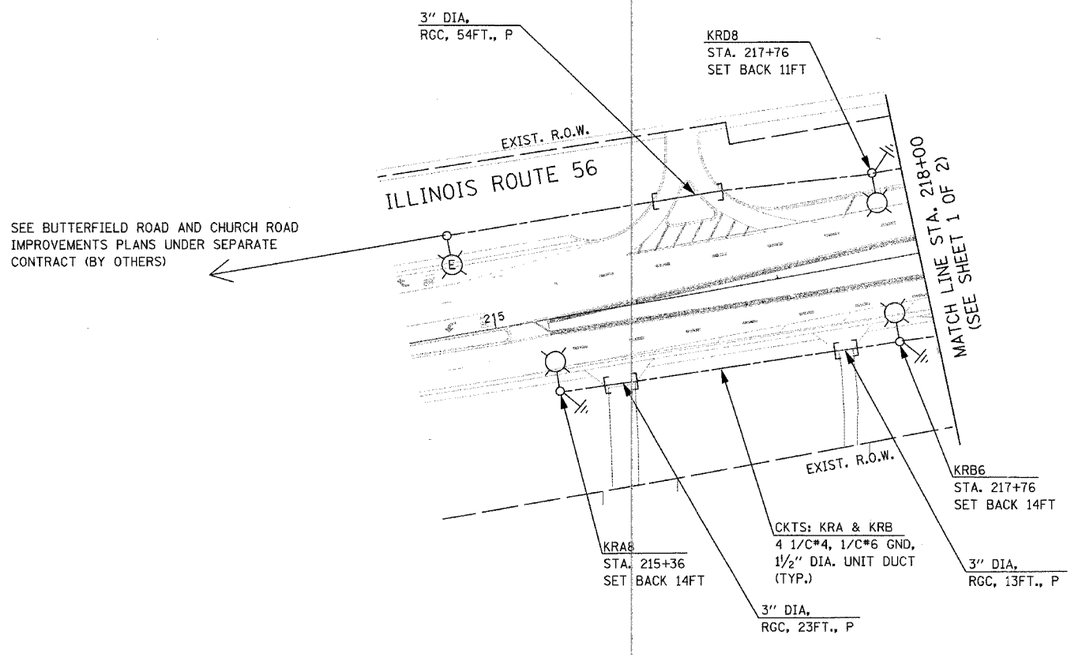
PROPOSED LIGHTING PLAN (SHEET 1 OF 2)

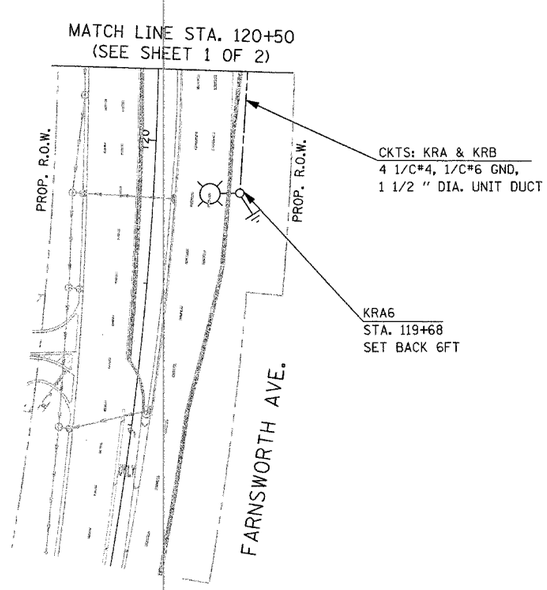
SCALE: 1"=50' DRAWN BY: RDP

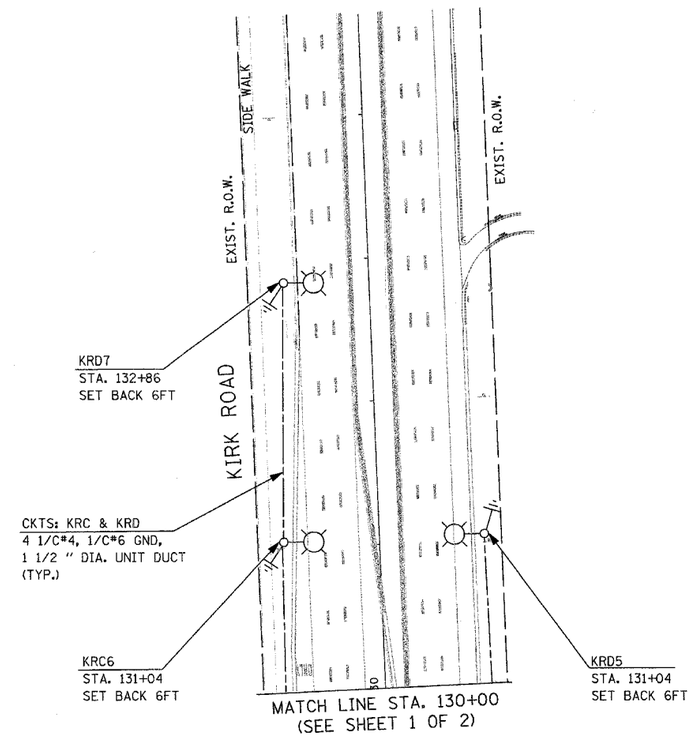
DATE: 04/06/07 CHECKED BY: MAE

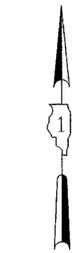
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	01-00273-00-CH	KANE	172	116
STA.		TO STA.		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83906









0 50' 100'
HORIZONTAL 1"=50' SCALES IN FEET

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ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 56 AT KIRK / FARNSWORTH

PROPOSED LIGHTING PLAN
(SHEET 2 OF 2)

SCALE: 1"=50' DRAWN BY: RDP
DATE: 04/06/07 CHECKED BY: MAE

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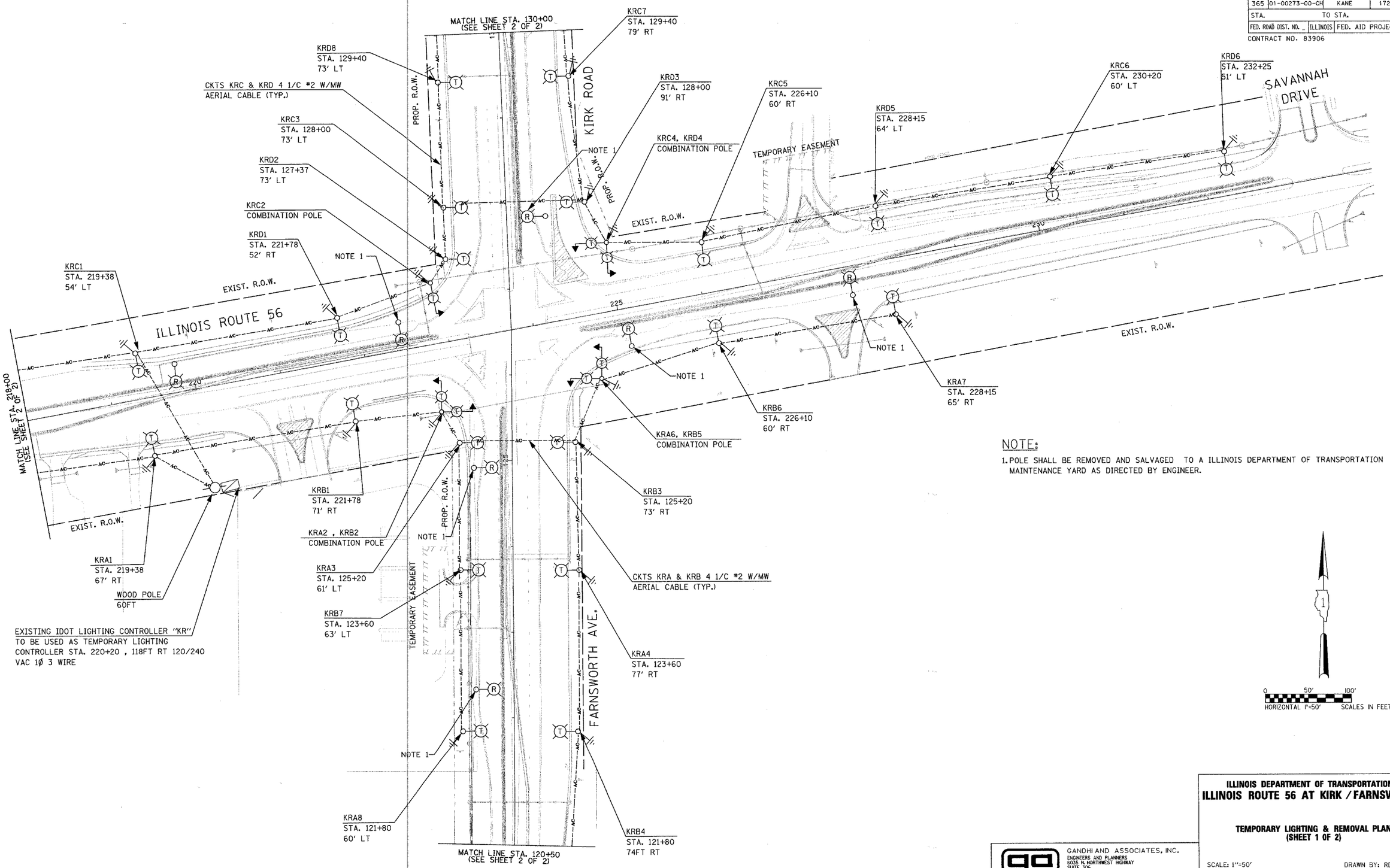
4/5/2007

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	01-00273-00-CH	KANE	172	117
STA.		TO STA.		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83906



NOTE:

1. POLE SHALL BE REMOVED AND SALVAGED TO A ILLINOIS DEPARTMENT OF TRANSPORTATION MAINTENANCE YARD AS DIRECTED BY ENGINEER.

0 50' 100'
HORIZONTAL 1"=50' SCALES IN FEET

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ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 56 AT KIRK / FARNSWORTH

TEMPORARY LIGHTING & REMOVAL PLAN (SHEET 1 OF 2)

SCALE: 1"=50' DRAWN BY: RDP

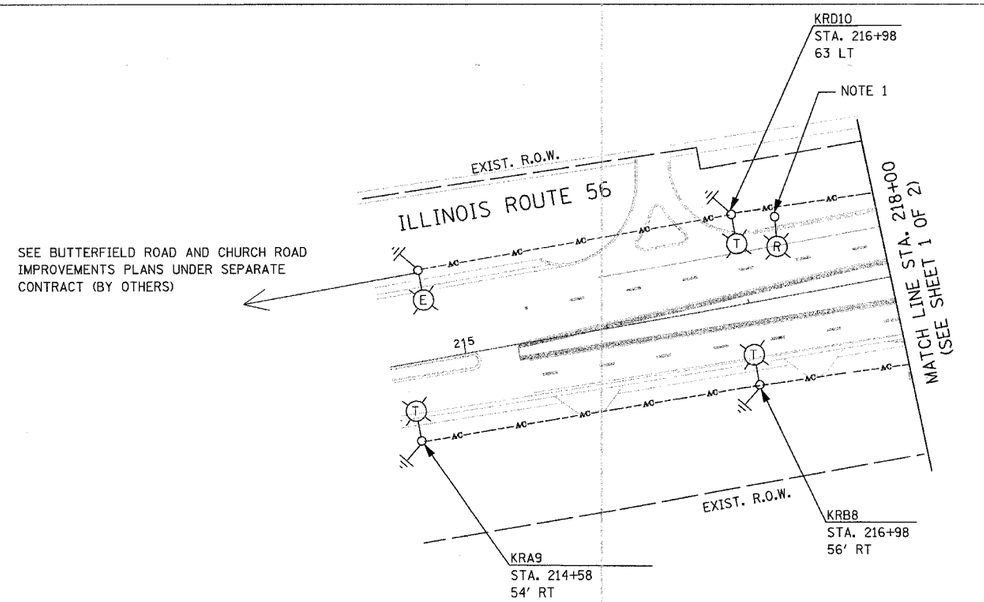
DATE: 04/06/07 CHECKED BY: MAE

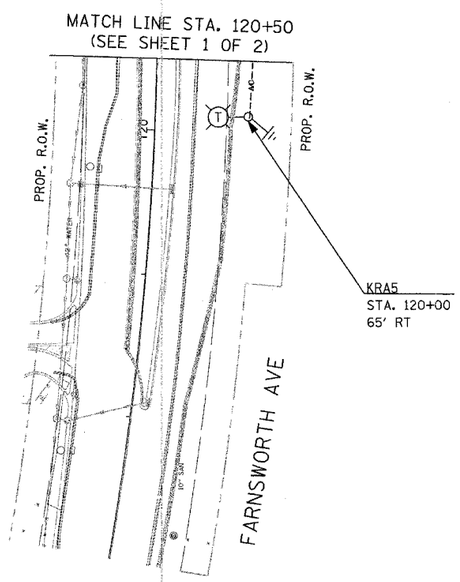
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	01-00273-00-CH	KANE	172	118
STA.		TO STA.		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

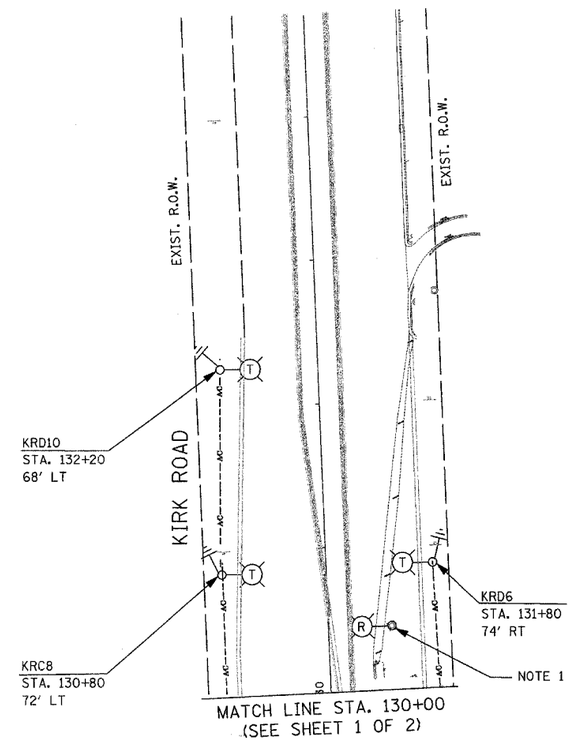
CONTRACT NO. 83906

NOTE:

1. POLE SHALL BE REMOVED AND SALVAGED TO A ILLINOIS DEPARTMENT OF TRANSPORTATION MAINTENANCE YARD AS DIRECTED BY ENGINEER.







0 50' 100'
HORIZONTAL 1"=50' SCALES IN FEET

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ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 56 AT KIRK / FARNSWORTH

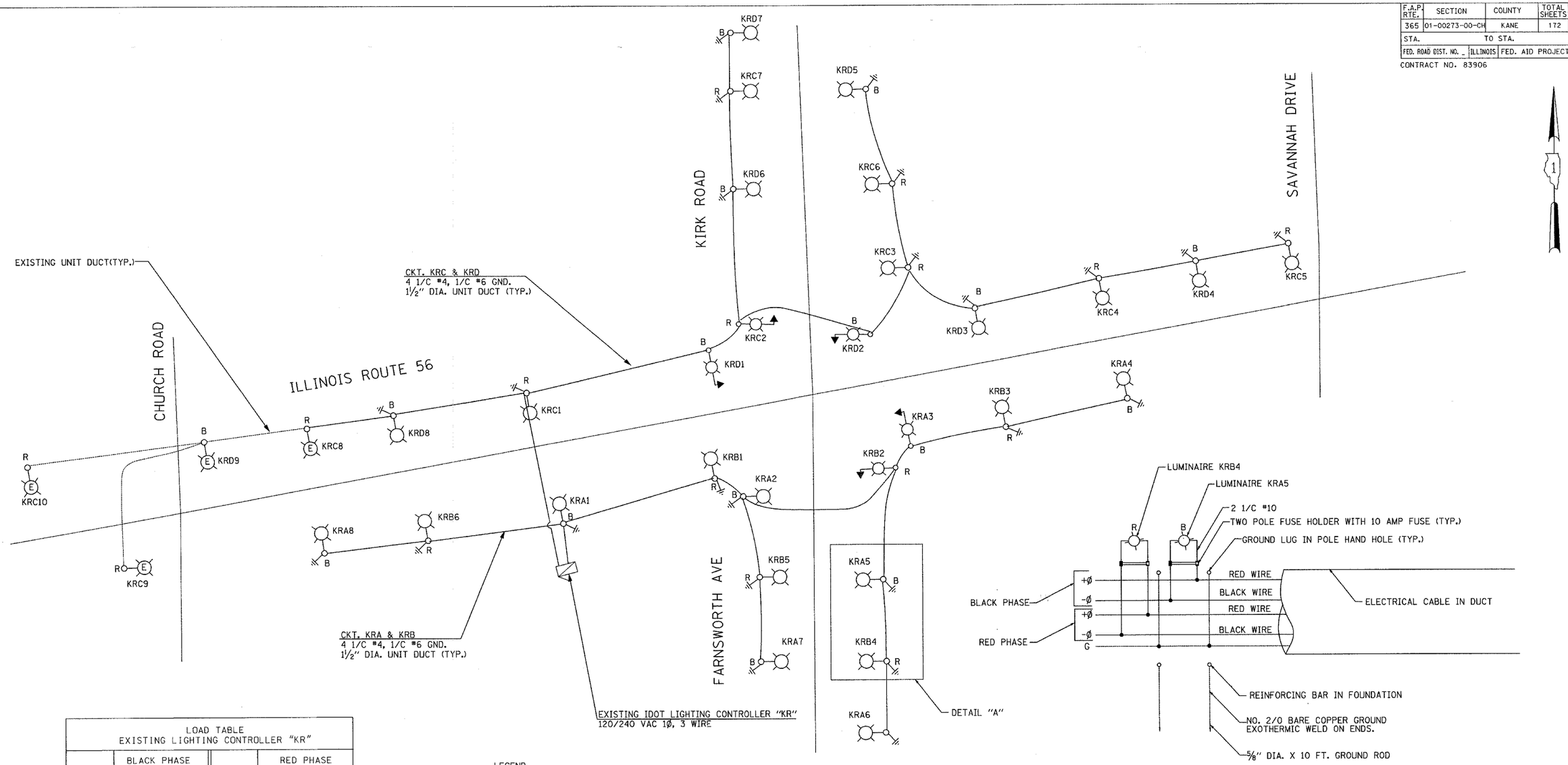
TEMPORARY LIGHTING & REMOVAL PLAN (SHEET 2 OF 2)

SCALE: 1"=50' DRAWN BY: RDP

DATE: 04/06/07 CHECKED BY: MAE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	01-00273-00-CH	KANE	172	119
STA.		TO STA.		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83906



DETAIL "A"

LUMINAIRE WIRING CONNECTION (TYP.)

LOAD TABLE
EXISTING LIGHTING CONTROLLER "KR"

CIRCUIT	BLACK PHASE		CIRCUIT	RED PHASE	
	AMPS	WATTS		AMPS	WATTS
A	16.8	4032	B	12.6	3024
D	18.4	4416	C	21.6	5184
TOTAL	35.2	8448	TOTAL	34.2	8208

TOTAL LOAD ON CONTROLLER: 69.4AMP

LEGEND

- EXISTING LIGHTING CONTROLLER
- B — PROPOSED LIGHTING UNIT 47.5' M.H., 15' M.A., 400W HPS TYPE MC-III , 240V LUMINAIRE (BLACK PHASE)
- R — PROPOSED LIGHTING UNIT 47.5' M.H., 15' M.A., 400W HPS TYPE MC-III , 240V LUMINAIRE (RED PHASE)
- B — PROPOSED COMBINATION LIGHTING UNIT 45' M.H., 15' M.A., 400W HPS TYPE MC-III , 240V LUMINAIRE (BLACK PHASE)
- R — PROPOSED COMBINATION LIGHTING UNIT 45' M.H., 15' M.A., 400W HPS TYPE MC-III , 240V LUMINAIRE (RED PHASE)
- B — EXISTING LIGHTING UNIT 40' M.H., 15' M.A., 310W HPS , 240V LUMINAIRE (BLACK PHASE)
- R — EXISTING LIGHTING UNIT 40' M.H., 15' M.A., 310W HPS , 240V LUMINAIRE (RED PHASE)
- ELECTRIC GROUND ROD

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ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 56 AT KIRK / FARNSWORTH

PROPOSED SINGLE LINE DIAGRAM
LIGHTING CONTROLLER "KR"

SCALE: 1"=50'
DRAWN BY: RDP
DATE: 04/06/07
CHECKED BY: MAE

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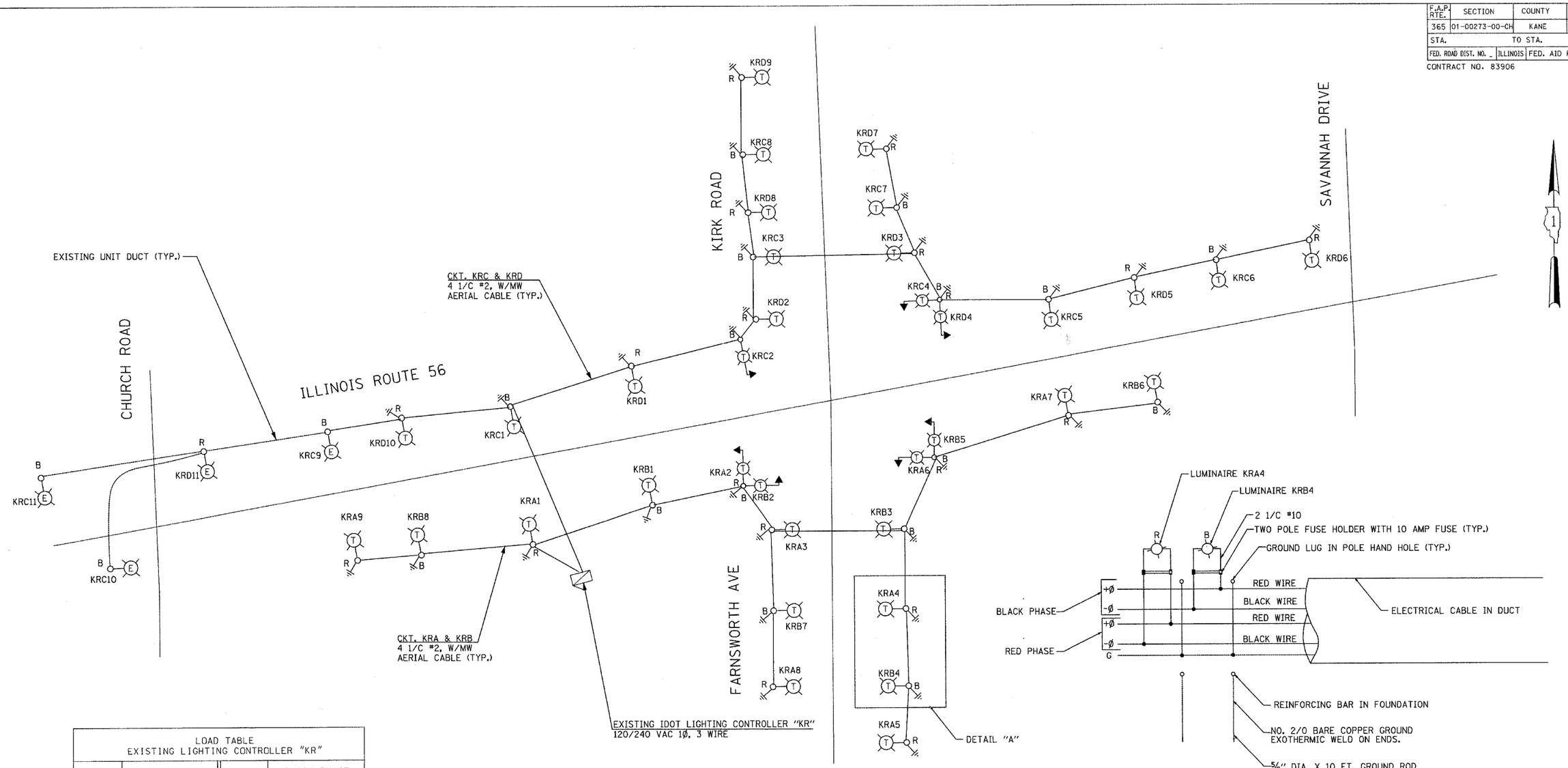
4/5/2007

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	01-00273-00-CH	KANE	172	120
STA.		TO STA.		
FED. ROAD DIST. NO. _	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83906



DETAIL "A"

LUMINAIRE WIRING CONNECTION (TYP.)

LOAD TABLE EXISTING LIGHTING CONTROLLER "KR"					
CIRCUIT	RED PHASE		CIRCUIT	BLACK PHASE	
	AMPS	WATTS		AMPS	WATTS
A	18.9	4536	B	16.8	4032
D	22.6	5424	C	21.6	5184
TOTAL	41.5	9960	TOTAL	38.4	9216

TOTAL LOAD ON CONTROLLER : 79.9 AMP

LEGEND

- EXISTING LIGHTING CONTROLLER
- B — TEMPORARY LIGHTING UNIT 50' M.H., 15' M.A., 400W HPS TYPE MC-III , 240V LUMINAIRE (BLACK PHASE)
- R — TEMPORARY LIGHTING UNIT 50' M.H., 15' M.A., 400W HPS TYPE MC-III , 240V LUMINAIRE (RED PHASE)
- B — TEMPORARY COMBINATION LIGHTING UNIT 45' M.H., 15' M.A., 400W HPS TYPE MC-III , 240V LUMINAIRE (BLACK PHASE)
- R — TEMPORARY COMBINATION LIGHTING UNIT 45' M.H., 15' M.A., 400W HPS TYPE MC-III , 240V LUMINAIRE (RED PHASE)
- ELECTRIC GROUND ROD

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ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 56 AT KIRK / FARNSWORTH

TEMPORARY SINGLE LINE DIAGRAM
LIGHTING CONTROLLER "KR"

SCALE: NONE — DRAWN BY: RDP

DATE: 04/06/07 — CHECKED BY: MAE

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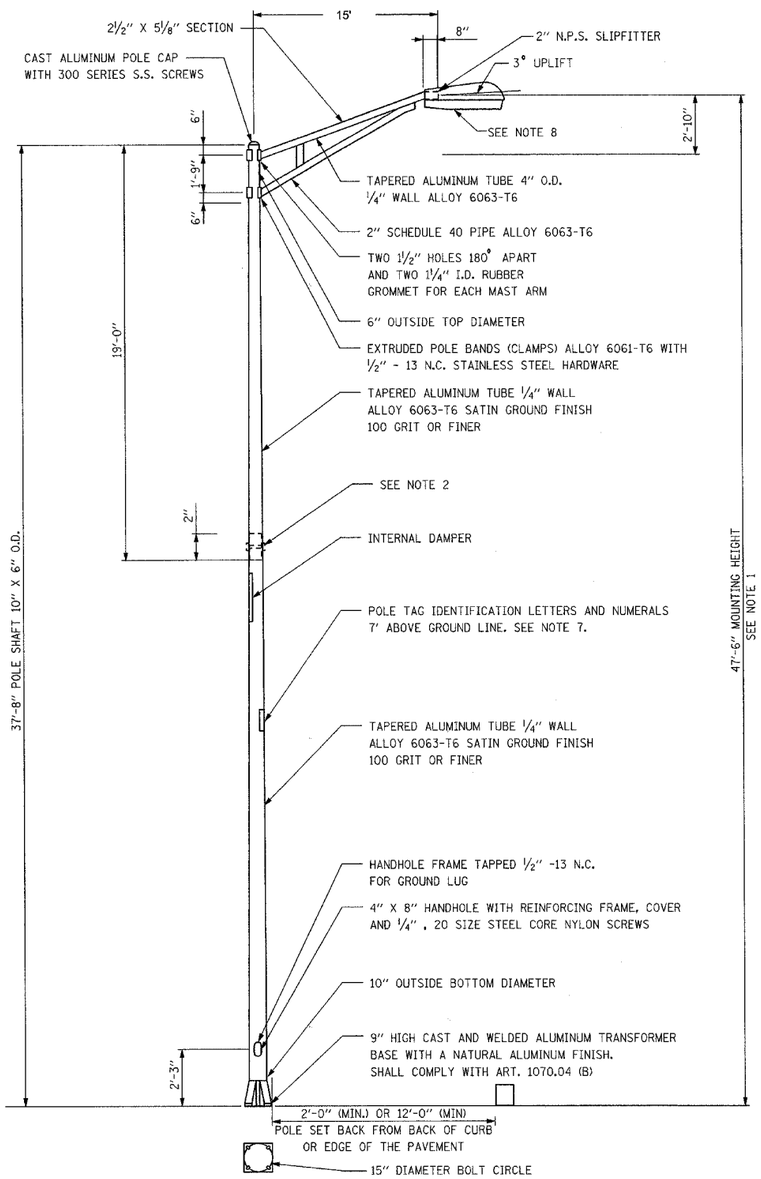
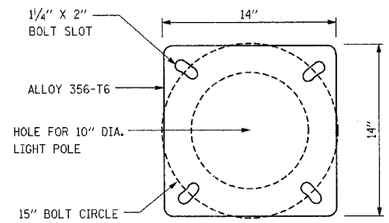
4/5/2007

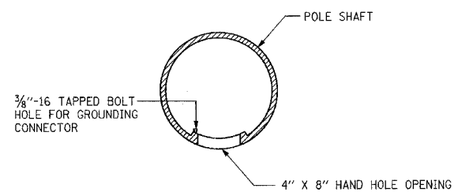
CONTRACT NO. 83906

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	01-00273-00-CH	KANE	172	121
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

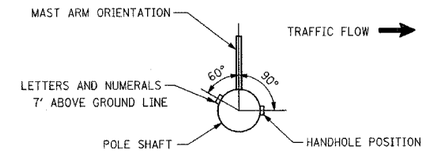




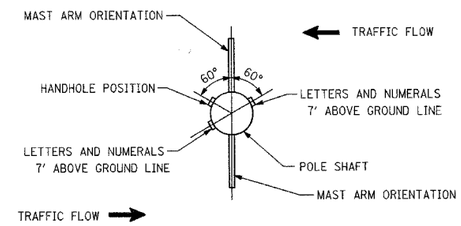
LIGHT POLE BASE PLATE DETAIL
15" BOLT CIRCLE



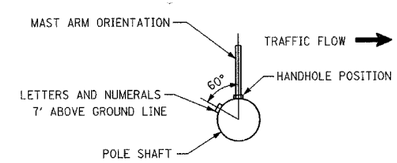
HANDHOLE DETAILS
NOT TO SCALE



POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES



POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL

NOTES:

1. MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE BASE.
2. TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
3. THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
4. THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONTRACTOR. BURNDY K2C23, T & B SP4DL OR APPROVED EQUAL.
5. LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
6. LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL. (773) 774-5910

ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 56 AT KIRK / FARNSWORTH

ALUMINUM LIGHT POLE (47'-6") MOUNTING HEIGHT ALL PROPOSED LIGHT POLES

SCALE: NONE | DRAWN BY: RDP

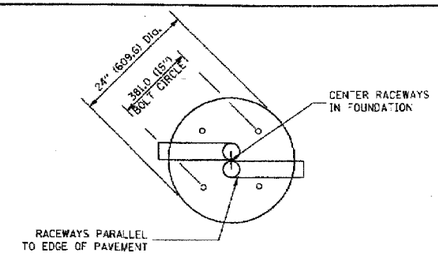
DATE: 12/15/06 | CHECKED BY: MAE

CONTRACT NO. 83906

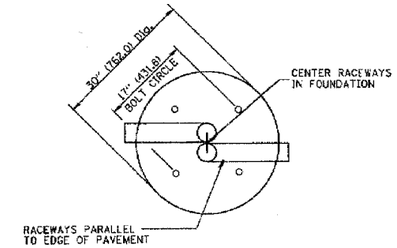
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	01-00273-00-CH	KANE	172	122
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LIGHT POLE FOUNDATION DEPTH TABLE
40 FT. (12.192M) TO 47.5 FT. (14.478M) MOUNTING HEIGHT

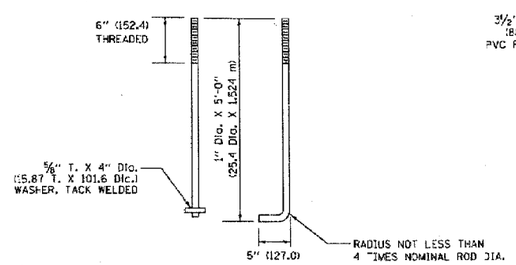
SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Qu = 0.375 TON/SQ. FT.	13'-0" (3.96M)	15'-0" (4.57M)
MEDIUM CLAY Qu = 0.75 TON/SQ.FT	9'-6" (2.09M)	10'-9" (3.23M)
STIFF CLAY Qu = 1.50 TON/SQ. FT.	7'-0" (2.13M)	8'-0" (2.44M)
LOOSE SAND Ø = 34°	9'-0" (2.74M)	10'-0" (3.05M)
MEDIUM SAND Ø = 37.5°	8'-3" (2.52M)	9'-0" (2.74M)
DENSE SAND Ø = 40°	7'-9" (2.36M)	9'-0" (2.74M)



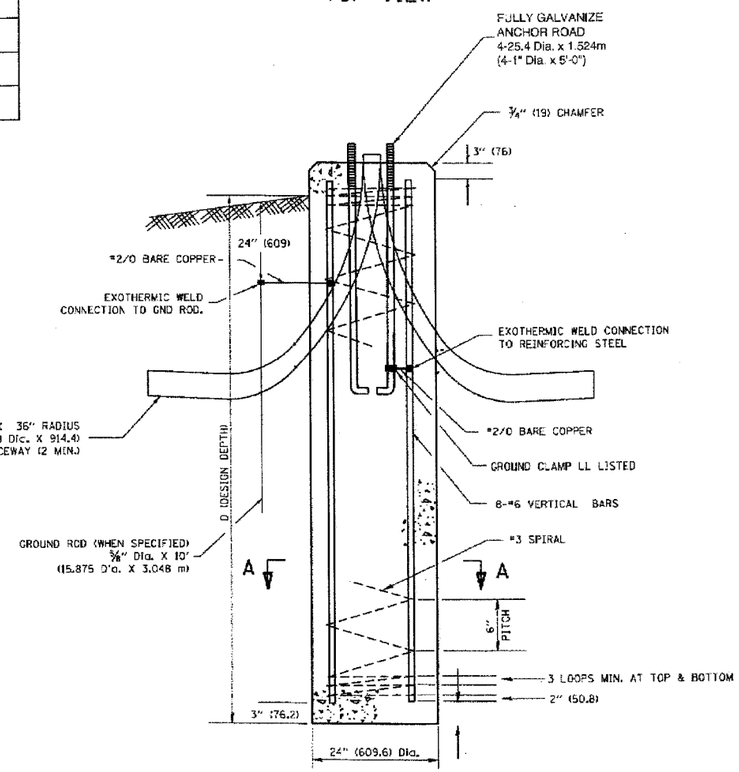
TOP VIEW



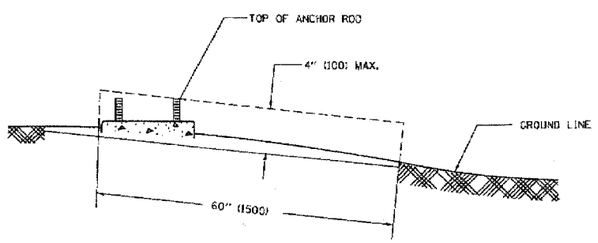
TOP VIEW



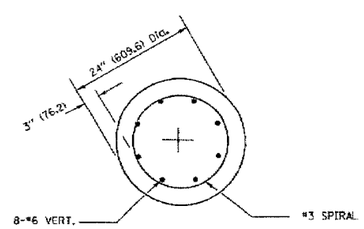
ANCHOR ROD DETAIL



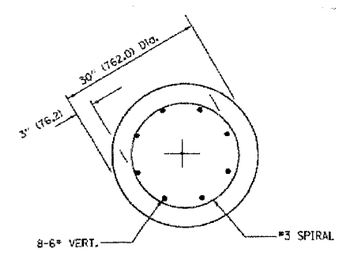
FOUNDATION DETAIL



FOUNDATION EXTENSION DETAIL



SECTION A-A



SECTION A-A

NOTES

1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IN PLACED.
3. THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5M) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED, IN ACCORDANCE WITH AASHTO GUIDELINES. IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
4. THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
5. THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20MM).
6. THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
7. THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
8. THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
9. ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UM(6 MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
10. THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 MM) WITH A MINIMUM OF 3 INCHES (75 MM) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
11. ANCHOR RODS SHALL PROJECT 2 3/4" (69.9MM) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
12. THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4MM) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8MM) O.C. WITH THE APPROVAL OF THE ENGINEER.
13. THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS ERECTED.
14. THE RACEWAYS SHALL PROJECT 1" (25.4MM) ABOVE THE TOP OF THE FOUNDATION.

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ENGINEERS AND PLANNERS
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SUITE 306
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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

LIGHT POLE FOUNDATION
40' (12.192M) TO 47 1/2' (14.478M) M.H.
15" (381) BOLT CIRCLE

SCALE: NONE
DATE: 1/9/2007
DRAWN BY
CHECKED BY

BE301
REVISION DATE: 01/01/07

PLOT DATE = 1/9/2007
FILE NAME = c:\projects\ilstate\be301.dgn
PLOT SCALE = 49.9999 ' / IN.
USER NAME = clirdahd

CONTRACT NO. 83906

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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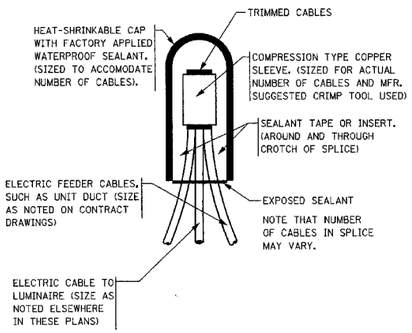
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

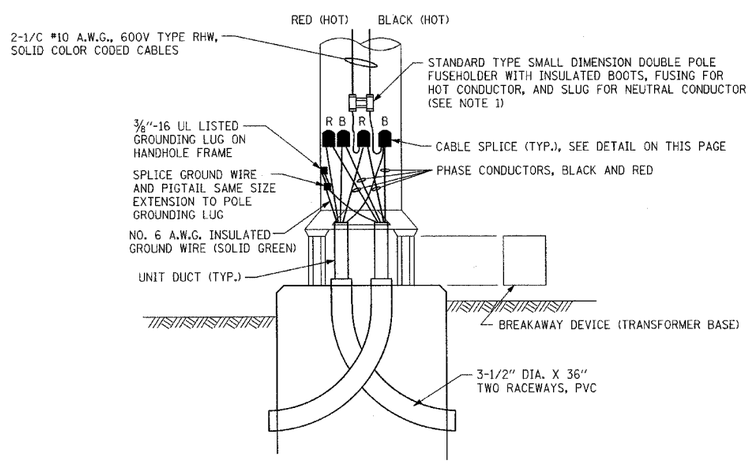


CABLE SPLICING DETAIL

NOT TO SCALE

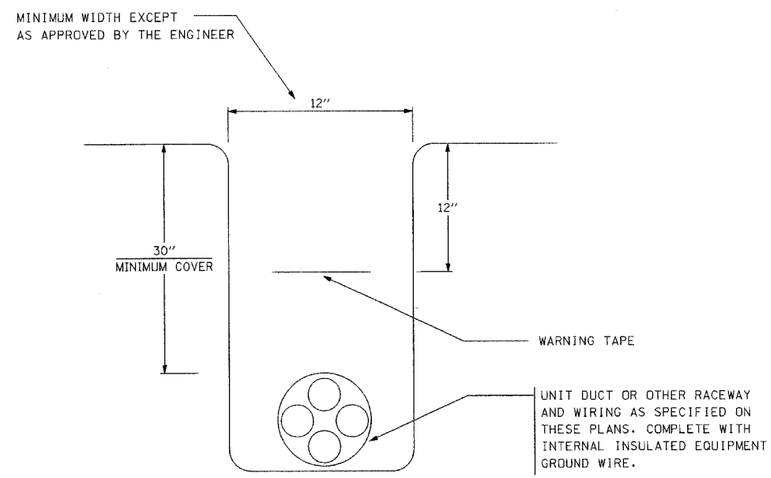
NOTE:

1. ALL FUSES AND FUSEHOLDERS SHALL COMPLY WITH ARTICLE 1065.01 (A) (C). THE FUSES THAT WILL BE USED SHALL BE SIZED AT 10 AMPERES EACH.



POLE BASE DETAIL

SEE NOTE 1



TYPICAL WIRING IN TRENCH DETAIL

NOT TO SCALE

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL. (773) 774-5910

ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 56 AT KIRK / FARNSWORTH

MISC. LIGHTING DETAILS

SCALE: NONE | DRAWN BY: RDP

DATE: 12/15/06 | CHECKED BY: MAE

\DETAILS\BE702_Detail.dgn 2/14/2007 12:02:18 PM

CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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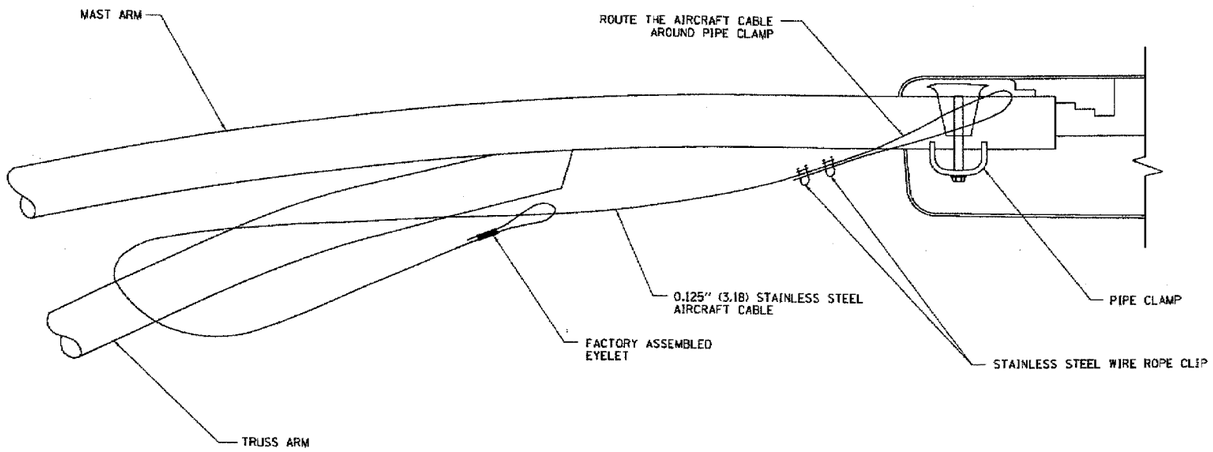
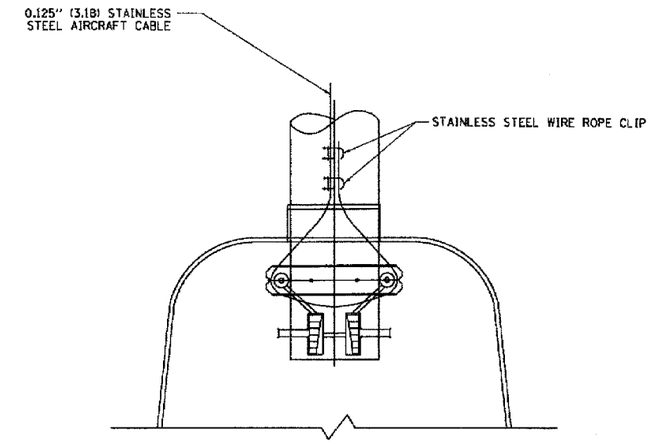
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



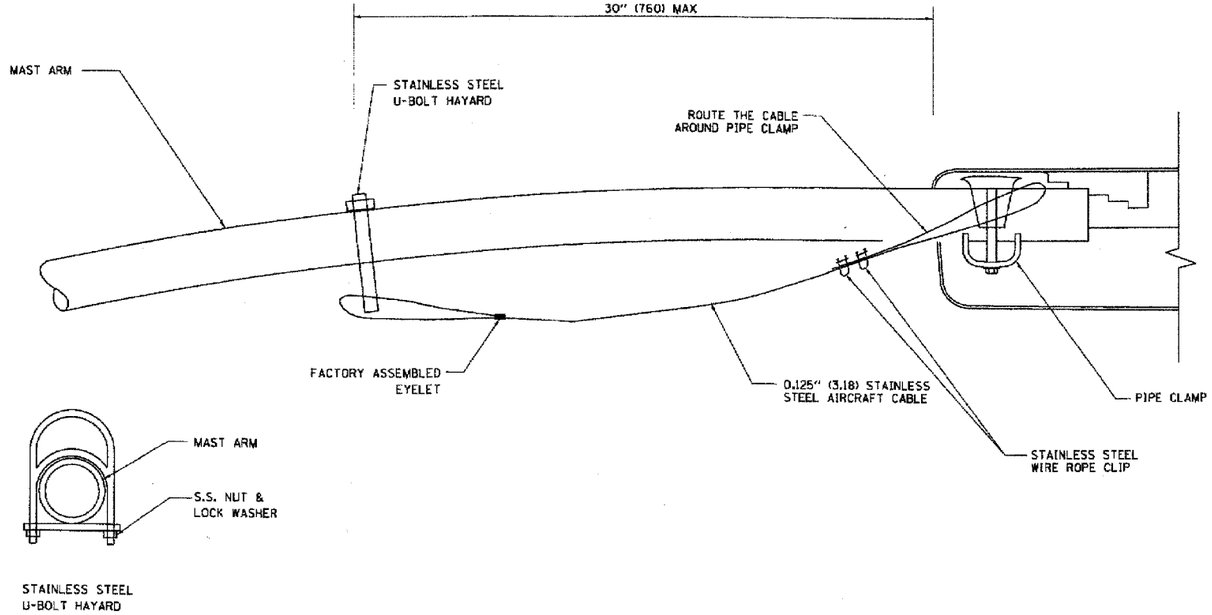
SIDE VIEW (TRUSS ARM)

N.T.S.



BOTTOM VIEW

N.T.S.



SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)

N.T.S.

NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN

PLOT DATE = 1/17/2007
FILE NAME = c:\projects\diesel\be701.dgn
PLOT SCALE = 50.000 ' / IN.
USER NAME = ulrichd

REVISIONS	
NAME	DATE

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL.: (773) 774-5910

ILLINOIS DEPARTMENT OF TRANSPORTATION

LUMINAIRE SAFETY CABLE ASSEMBLY

SCALE: VERT. HORIZ.

DATE: 1/17/2007

DRAWN BY

CHECKED BY

BE-701

REVISION DATE: 01/01/07

CONTRACT NO. 83906

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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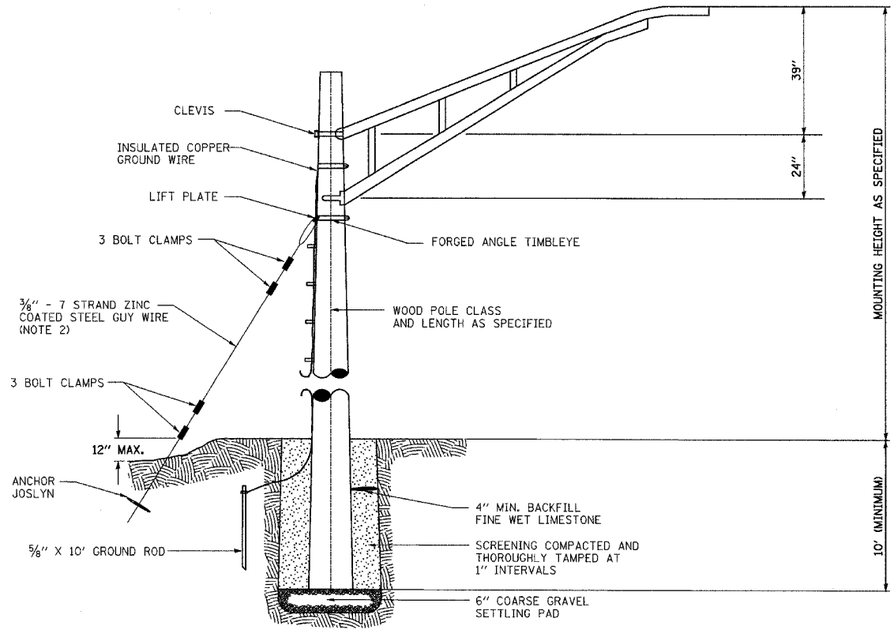
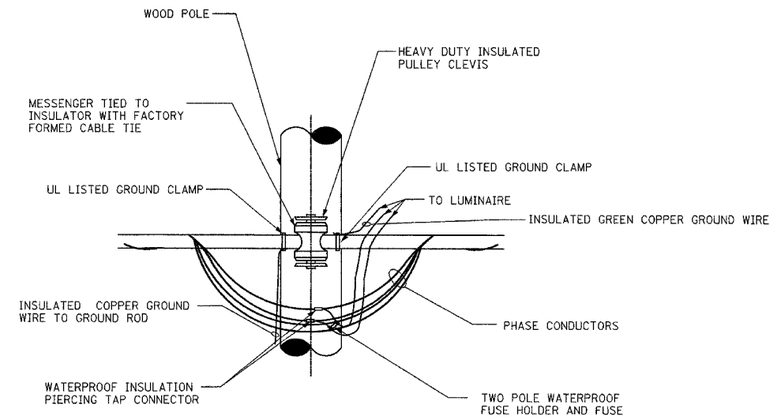
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TEMPORARY LIGHT POLE DETAIL

N.T.S.



TEMPORARY LIGHT POLE CABLE ATTACHMENT DETAIL

N.T.S.

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL. (773) 774-5910

ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 56 AT KIRK / FARNSWORTH

TEMPORARY LIGHT POLE DETAILS

SCALE: NONE | DRAWN BY: RDP

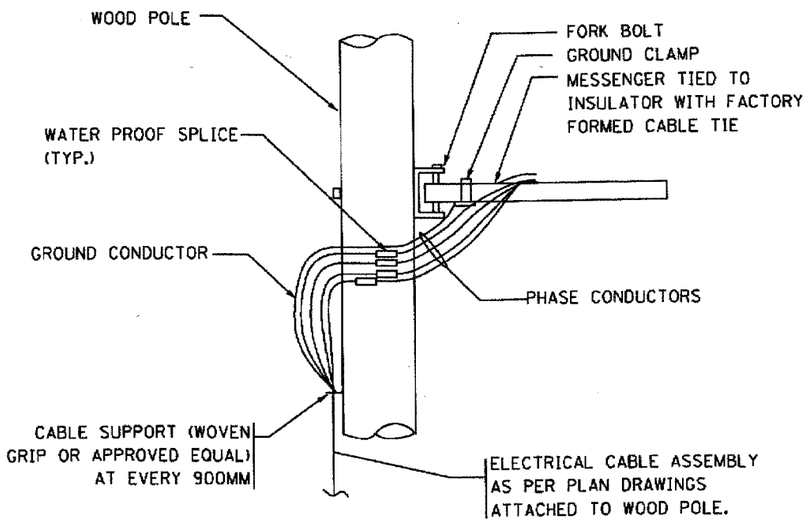
DATE: 12/15/06 | CHECKED BY: MAE

SPACES 4CHES

\DETAILS\BE_800_Temp_Detail.dgn 2/14/2007 12:03:23 PM

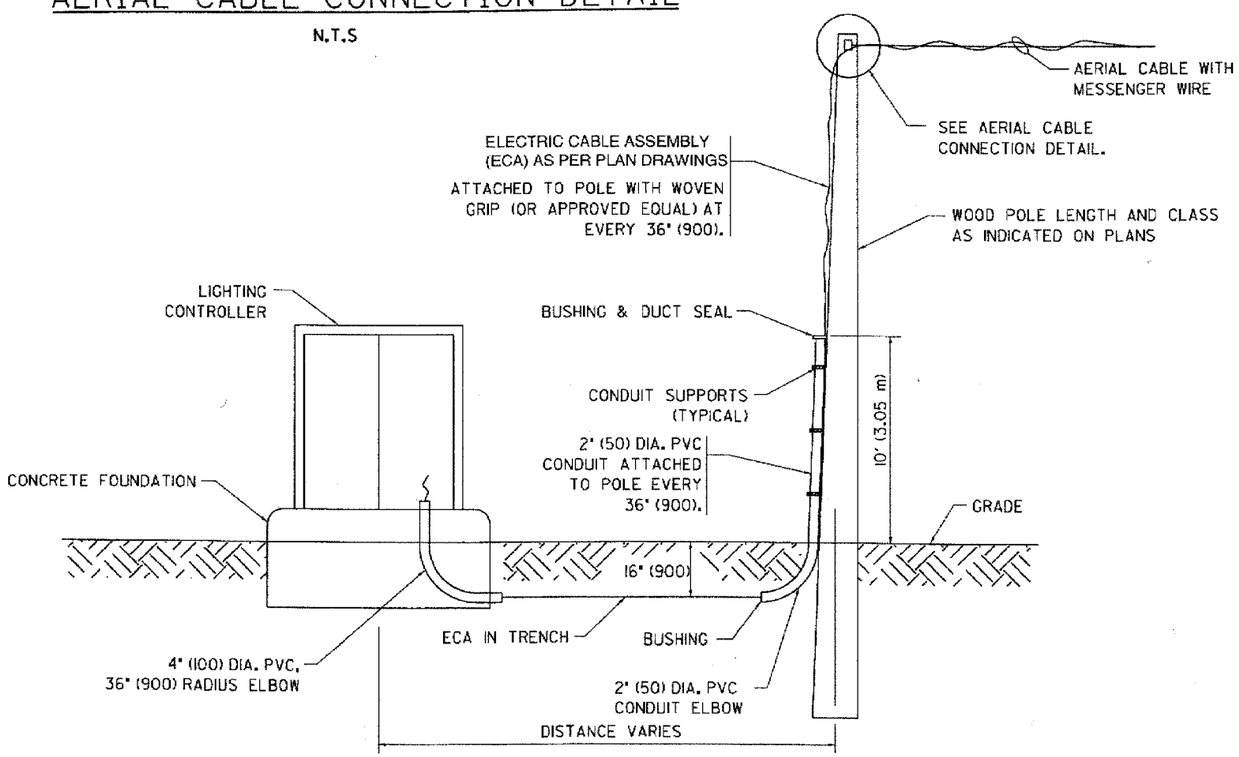
CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	01-00273-00-CH	KANE	172	126
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



AERIAL CABLE CONNECTION DETAIL

N.T.S



WOOD POLE TO LIGHTING CONTROLLER WIRING CONNECTION DETAIL

N.T.S.

NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
3. NOT USED
4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.

REVISIONS	
NAME	DATE

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6005 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL. (773) 774-5510

ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY AERIAL CABLE INSTALLATION

SCALE: VERT. HORIZ.

DATE: 1/17/2007

DRAWN BY

CHECKED BY

BE-801

REVISION DATE: 01/01/07

PLOT DATE = 1/17/2007
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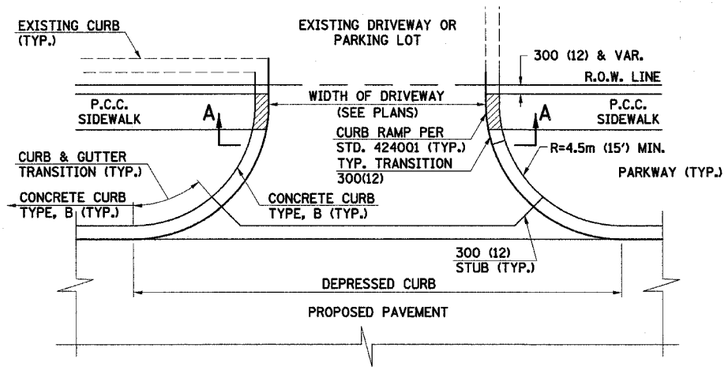
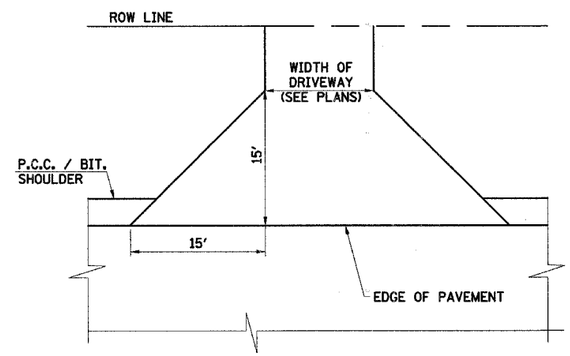
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	01-00273-00-CH	KANE	172	127
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

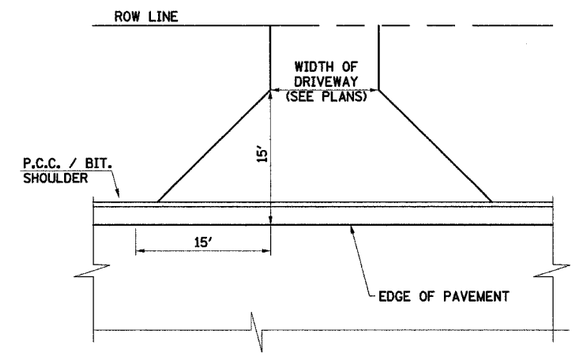
CONTRACT NO. 83906



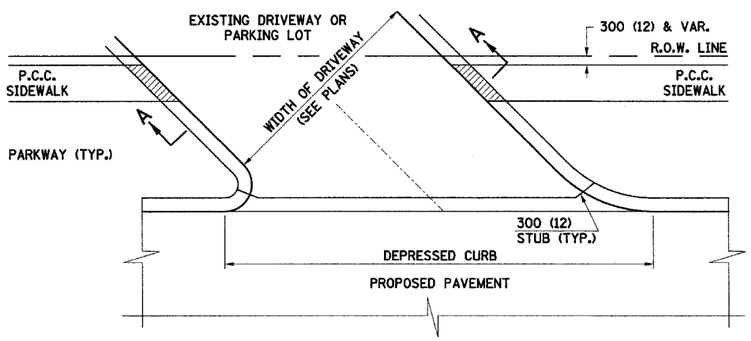
WITH CONCRETE CURB, TYPE B



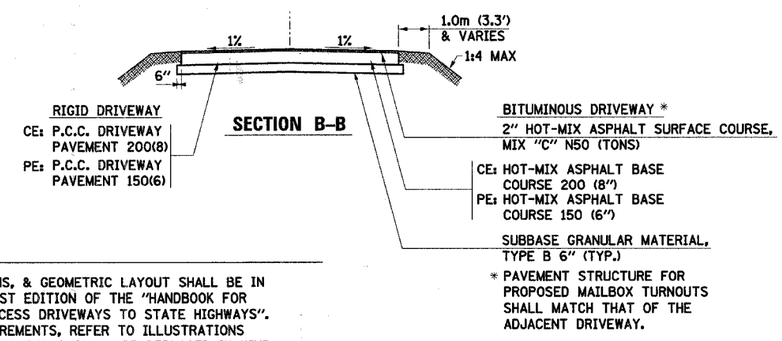
ADJACENT TO P.C.C./BITUMINOUS SHOULDER

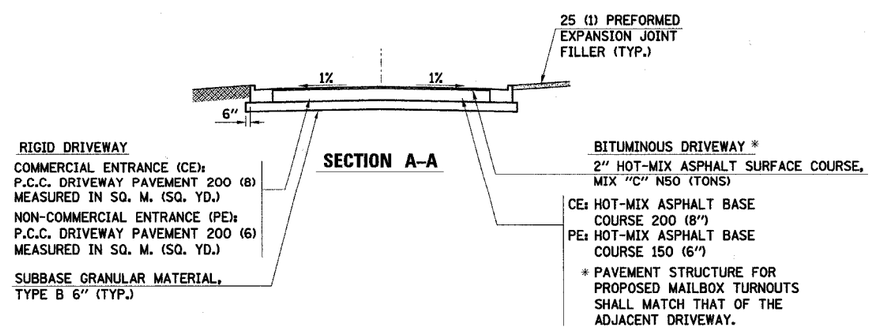


ADJACENT TO CURB AND GUTTER



WITH CONCRETE CURB, TYPE B





GENERAL NOTES

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 1.2 METERS (4 FEET) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

25 (1) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPERATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE MAXIMUM OF 1:50.

ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 56 AT KIRK / FARNSWORTH

MISCELLANEOUS DETAILS

SCALE: VERT. HORIZ. — DRAWN BY BAH

DATE APR 06 2007 — CHECKED BY APS

PLAN		BY	DATE
SURVEYED			
PLOTTED			
ALIGNMENT CHECKED			
R.O.W. MAP CHECKED			
CADD FILE NAME			
NOTE BOOK NO.			

PROFILE		BY	DATE
SURVEYED			
PLOTTED			
GRADES CHECKED			
STRUCTURE NOTATIONS			
NOTE BOOK NO.			

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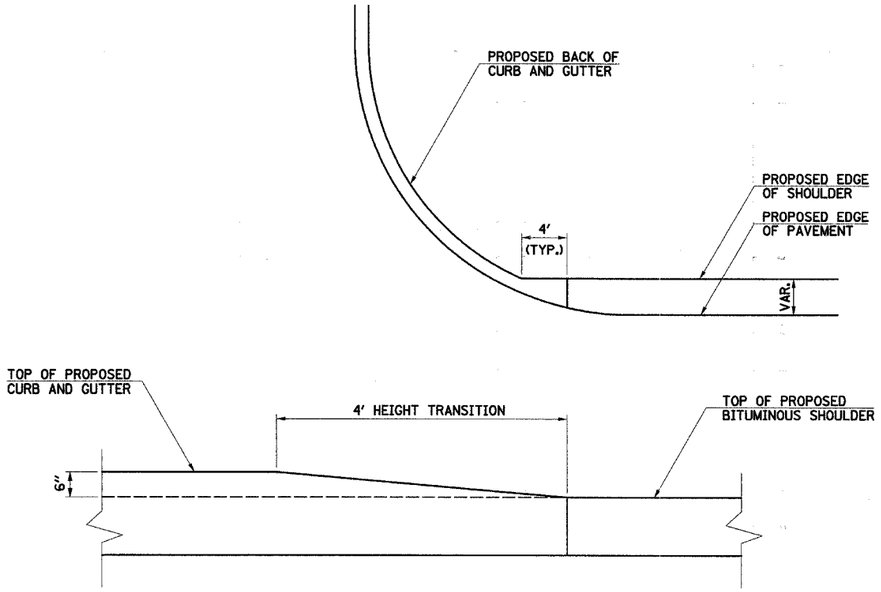
4/7/2007

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	01-00273-00-CH	KANE	172	128
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83906



CURB AND GUTTER FLARE

NOTE:
THE CURB AND GUTTER FLARE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE MEASURED QUANTITIES FOR THE TYPE OF CURB AND GUTTER BEING TRANSITIONED.

GENERAL NOTES

GRATING DETAILS SHOWN ARE INTENDED FOR USE WITH PARTICULAR SIZES OF PRECAST REINFORCED CONCRETE FLARED END SECTIONS AS SHOWN ON STANDARD 542306.

STRUCTURAL STEEL SHAPES AND PLATES SHALL BE ACCORDING TO THE REQUIREMENTS OF WITH ARTICLE 1006.04 OF THE STANDARD SPECIFICATIONS.

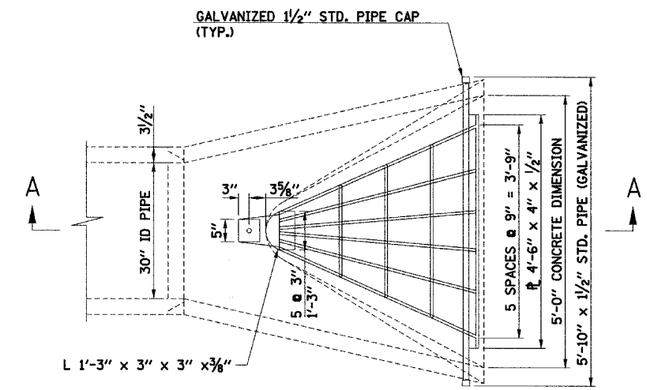
GALVANIZED STEEL PIPE SHALL BE ACCORDING TO THE REQUIREMENTS OF ARTICLE 1006.27(b) OF THE STANDARD SPECIFICATIONS. BOLTS, NUTS, AND WASHERS SHALL BE ACCORDING TO THE REQUIREMENTS OF ARTICLE 1006.27(f). ARTICLE 1006.08 OF THE STANDARD SPECIFICATION.

ALL FABRICATION SHALL BE COMPLETED AND READY FOR ASSEMBLY BEFORE GALVANIZING.

THE CORED HOLES IN THE PRECAST CONCRETE FLARED END SECTIONS SHALL BE TO THE DIAMETERS NOTED. IF CONE-OUT ON THE OTHER END OF THE HOLE OCCURS. THE HOLE SHALL BE FILLED WITH GROUT TO CORRECT DIAMETER OF THE HOLE.

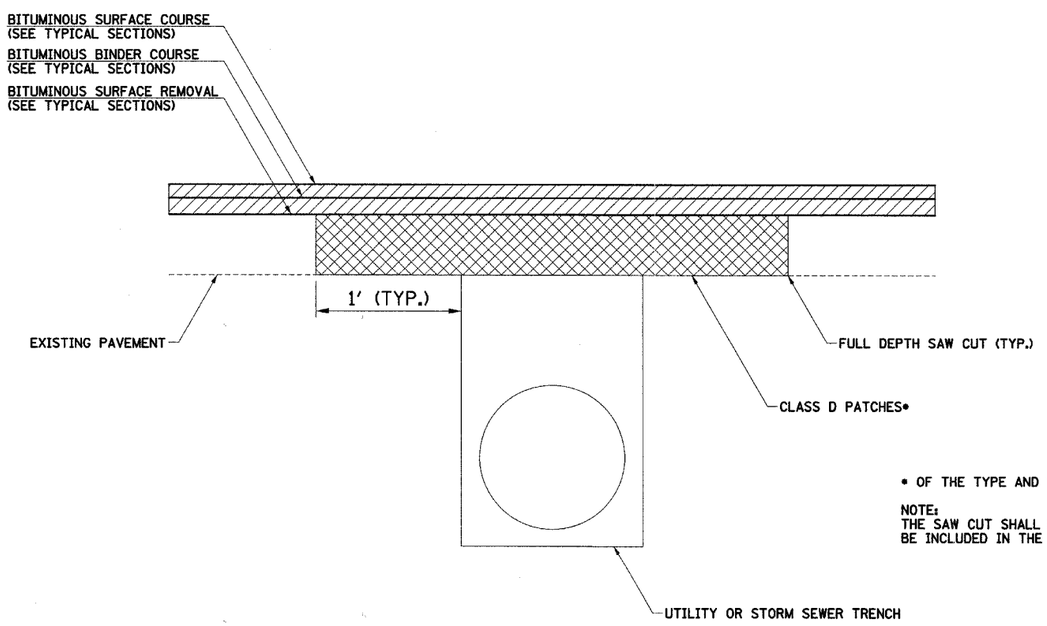
APPROXIMATE WEIGHT OF STEEL SHOWN INCLUDES TOTAL WEIGHT OF GRATING, BOLTS, WASHERS, NUTS AND STEEL PIPE.

THE CONTRACT UNIT PRICE "EACH" FOR GRATING FOR CONCRETE FLARED END SECTION, EQUIVALENT ROUND-SIZE OF THE SIZE INDICATED SHALL INCLUDE FABRICATION AND INSTALLATION OF THE GRATING AS DETAILED HEREON, INCLUDING FABRICATION OF THE NECESSARY MOUNTING HOLES IN THE FLARED END SECTION. THIS PRICE DOES NOT INCLUDE THE COST OF THE PRECAST CONCRETE FLARED END SECTION.



PLAN

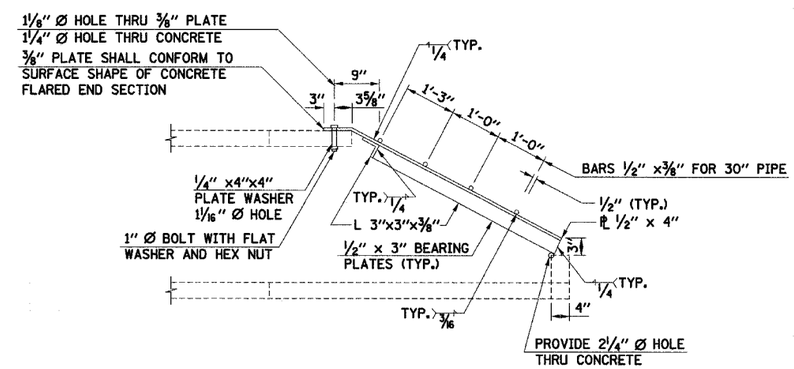
APPROX. WEIGHT OF STEEL x 210 LBS



• OF THE TYPE AND THICKNESS SPECIFIED.

NOTE:
THE SAW CUT SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE PAVEMENT PATCHING.

PAVEMENT PATCHING



SECTION A-A

GRATING FOR ELLIPTICAL FLARED END SECTION 30"

ILLINOIS DEPARTMENT OF TRANSPORTATION
ILLINOIS ROUTE 56 AT KIRK / FARNSWORTH

MISCELLANEOUS DETAILS

SCALE: VERT. HORIZ.
DATE APR 06 2007
DRAWN BY BAH
CHECKED BY APS

PLAN
NOTE BOOK NO. ____
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
BY
DATE

PROFILE
NOTE BOOK NO. ____
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATIONS CHKD
BY
DATE

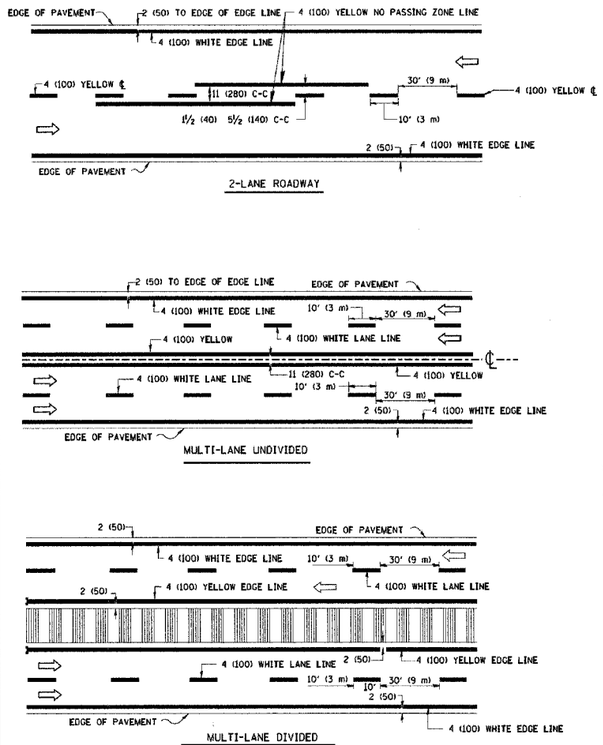
31*1/05/2007 11:40:00 AM D:\DOCUMENTS\DESIGN\ILLINOIS\ILLINOIS ROUTE 56\MISCDETAILS.DGN

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	01-00273-00-CH	KANE	172	129
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83906

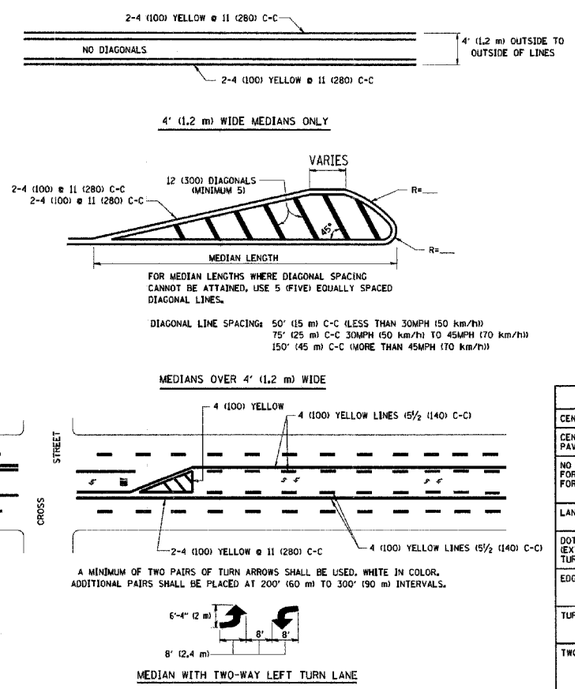
CONTRACT NO.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

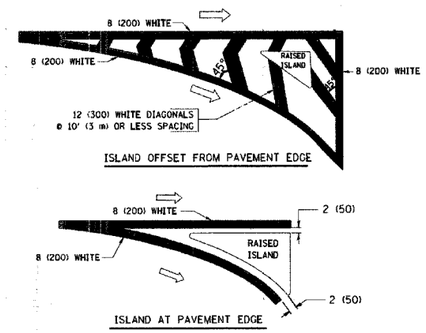


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING



TYPICAL PAINTED MEDIAN MARKING

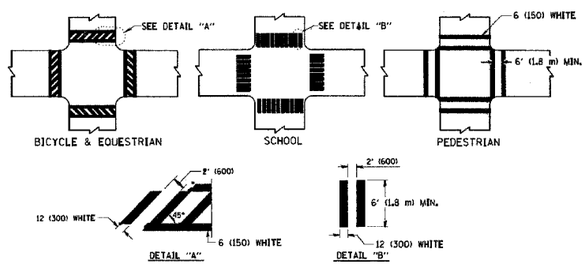


TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2,4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2,4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m^2) EACH "X"=54.0 SQ. FT. (5.0 m^2)
SHOULDER DIAGONALS	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in millimeters (inches) unless otherwise shown.



TYPICAL CROSSWALK MARKING

TYPICAL TURN LANE MARKING

REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-03-96
ALEX HOUSEH	10-17-96
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE
DATE: 1/17/2007
DRAWN BY CADD
CHECKED BY
TC-13
REVISION DATE: 01/06/00

ILLINOIS DEPARTMENT OF TRANSPORTATION
ILLINOIS ROUTE 56 AT KIRK / FARNSWORTH

MISCELLANEOUS DETAILS

SCALE: VERT. HORIZ.
DATE APR 06 2007
DRAWN BY BAH
CHECKED BY APS

PLOT DATE = 1/17/2007
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USER NAME = Regis

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SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
BY
DATE

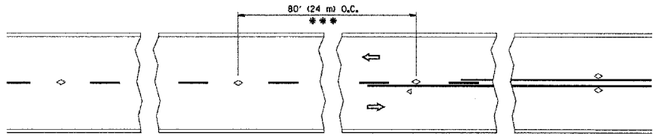
PROFILE
NOTE BOOK NO.
SURVEYED
PLOTTED
PROFILE CHECKED
B.M. NOTED
STRUCTURE NOTAT'NS CHKD
BY
DATE

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	01-00273-00-CH	KANE	172	130
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83906

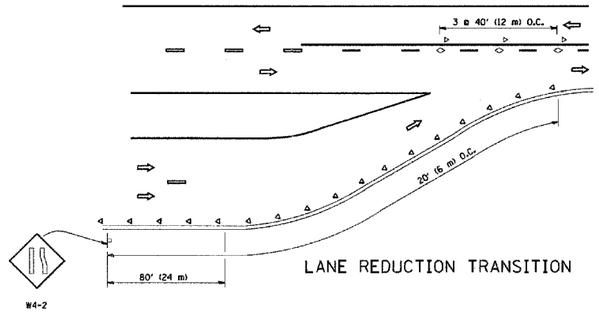
CONTRACT NO.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

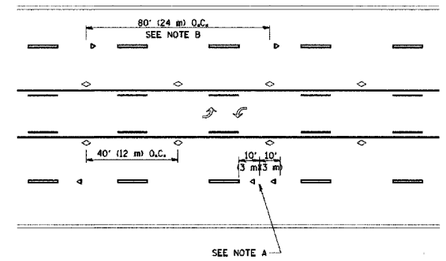


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

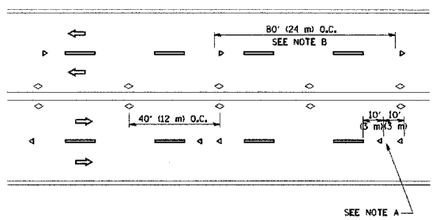
TWO-LANE/TWO-WAY



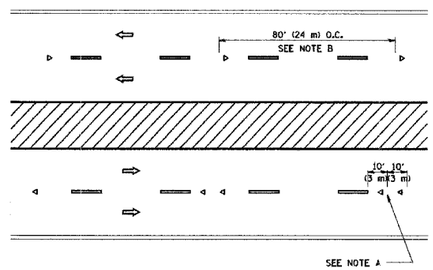
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- TWO-WAY AMBER MARKER

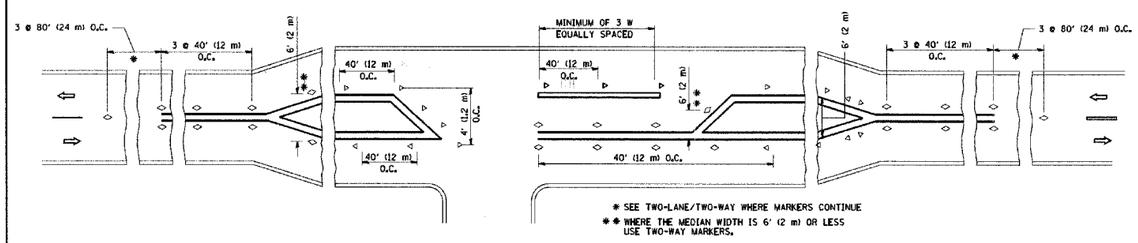
LANE MARKER NOTES

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE

** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

All dimensions are in millimeters (inches) unless otherwise shown.

REVISIONS	
NAME	DATE
T. RAMMACHER	09-19-94
T. RAMMACHER	03-12-99
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT
MARKERS (SNOW-PLOW RESISTANT)

SCALE: NONE — DRAWN BY CADD

DATE: 1/17/2007 — CHECKED BY

TC-11

REVISION DATE: 01/06/00

PLOT DATE = 1/17/2007
FILE NAME = c:\pwworking\tc11.dgn
PLOT SCALE = 50.0000 ' / IN.
USER NAME = Peyton

PROFILE	SURVEYED	PLOTTED	HORIZ. CHECKED	B.M. NOTED	STRUCTURE NOTAT'NS CHKD	NOTE BOOK NO.	BY	DATE

PLAN	SURVEYED	PLOTTED	ALIGNMENT CHECKED	RT. OF WAY CHECKED	CADD FILE NAME	NOTE BOOK NO.	BY	DATE

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4/7/2011

ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 56 AT KIRK / FARNSWORTH

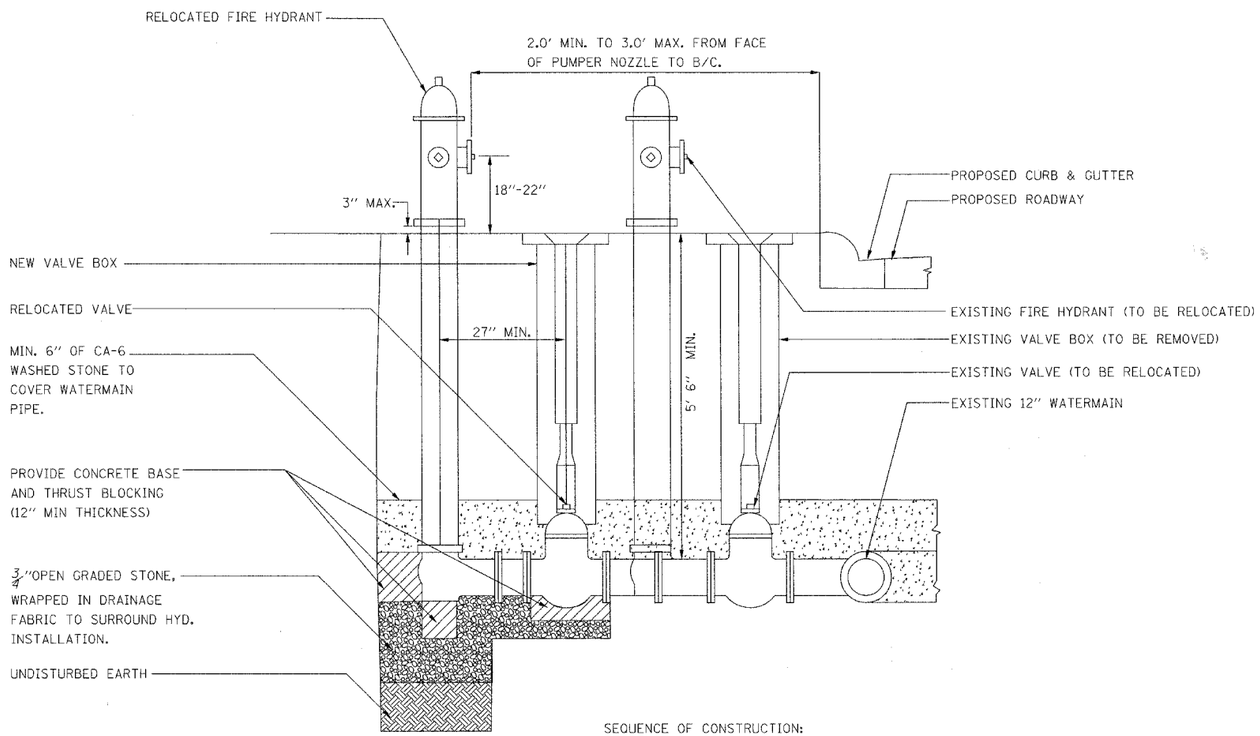
MISCELLANEOUS DETAILS

SCALE: VERT. HORIZ. — DRAWN BY BAH

DATE: APR 06 2007 — CHECKED BY APS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	01-00273-00-CH	KANE	172	131
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83906



SEQUENCE OF CONSTRUCTION:

1. CLOSE EXISTING 12" VALVES (CONTACT CITY OF AURORA DEPARTMENT OF PUBLIC WORKS A MINUMUM OF 48 HOURS PRIOR TO ANY DISRUPTION IN SERVICE).
2. REMOVE EXISTING HYDRANT, VALVE, AND VALVE BOX FROM TEE.
3. RELOCATE EXISTING HYDRANT AND VALVE AND REINSTALL AT NEW LOCATION. INSTALL NEW VALVE BOX.
4. REOPEN EXISTING 12" VALVES.
5. BACKFILL.
6. FLUSH AND TEST FOR CHLORINE RESIDUAL AND PROVIDE TEST.

NOTES:

1. NEW VALVE BOX SHALL BE "TYLER" OR APPROVED EQUAL.
2. ALL NUTS, BOLTS, & THREADED RODS SHALL BE STAINLESS STEEL.
3. TRENCH BACKFILL SHALL BE PROVIDED FOR TRENCHES MADE IN THE SUBGRADE OF THE PROPOSED IMPROVEMENT OR WITHIN 2' OF THE PROPOSED CURB IN ACCORDANCE WITH SECTION 208 OF THE STANDARD SPECIFICATIONS.

FIRE HYDRANTS TO BE MOVED

ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 56 AT KIRK / FARNSWORTH

MISCELLANEOUS DETAILS

SCALE: VERT. HORIZ.

DATE APR 06 2007

DRAWN BY BAH

CHECKED BY APS

PLAN — SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME — NOTE BOOK NO. — BY — DATE

PROFILE — SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTAT'NS CHK'D — NOTE BOOK NO. — BY — DATE

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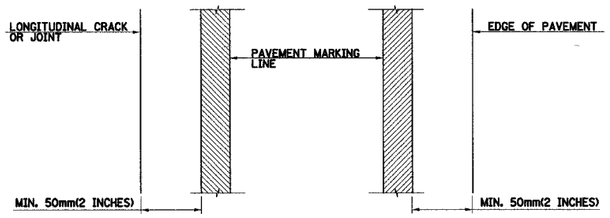
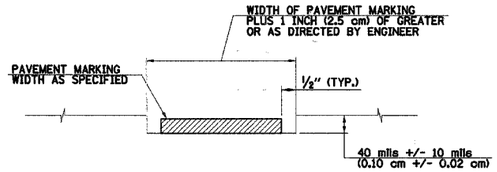
4/7/2007

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	01-00273-00-CH	KANE	172	132
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

CONTRACT NO. 83906





GROOVE INSTALLATION = 15 mil POLYUREA THICKNESS

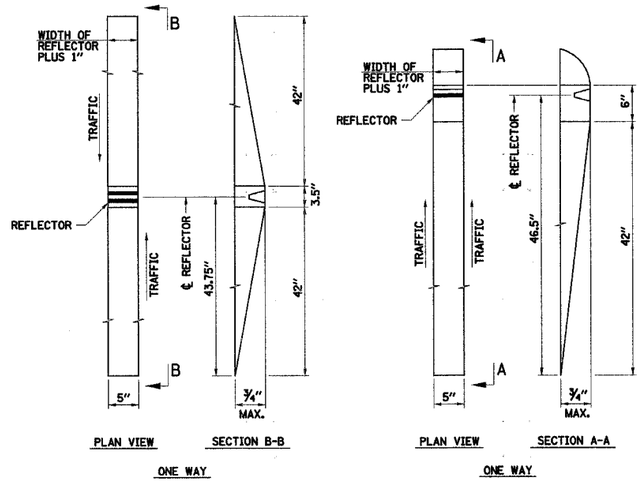
• FOR 20 mil APPLICATION USE 45 mils +/- 10 mils

GENERAL NOTES

1. UNLESS OTHERWISE ALLOWED BY THE ENGINEER, WAIT 10 DAYS OR LONGER TO GRIND A GROOVE INTO NEW ASPHALT PAVEMENT TO AVOID DAMAGE TO THE NEW PAVEMENT BY THE GROOVING AND CLEANING OPERATION.
2. PAVEMENT MARKINGS SHALL CONFORM WITH IDOT HIGHWAY STANDARD 780001-01 (OR LATEST) UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR THE DETAILS ON THIS SHEET.

RECESSED PAVEMENT MARKING APPLICATION

STANDARD KC780001-03



RECESSED REFLECTIVE PAVEMENT MARKERS

GENERAL NOTES

1. INSTALLATION SHALL CONFORM TO IDOT HIGHWAY STANDARD 781001-02 (OR LATEST) FOR MARKER PLACEMENT.
2. IDOT STANDARD 781001-02 SHALL BE MODIFIED TO REFLECT RECESSED PAVEMENT MARKERS INSTEAD OF RAISED PAVEMENT MARKERS.

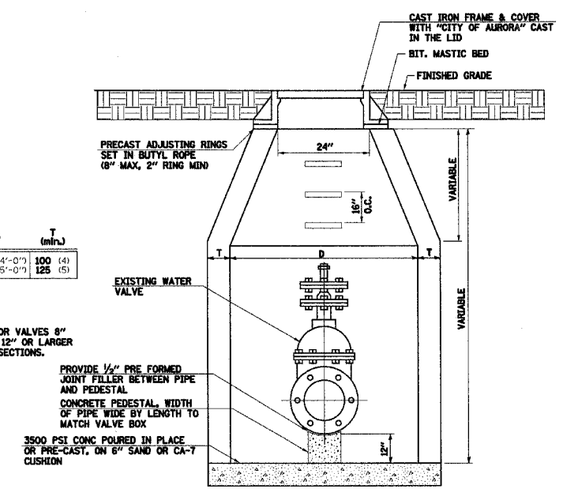
INSTALLATION NOTES

1. SAW CUT TO DIMENSIONS SHOWN.
2. SAWCUT AREAS TO BE DRY AND FREE OF MATERIAL THAT ADVERSELY AFFECTS THE ADHESIVE BOND.
3. INSTALL THE REFLECTOR WITH AN APPROVED TWO-COMPONENT EPOXY ADHESIVE. EPOXY SHOULD NOT OBSCURE OR BLOCK THE LENS.
4. INSTALL TOP OF REFLECTOR +/- 3/8 INCH BELOW THE PAVEMENT SURFACE.
5. REFLECTOR SHALL BE 3M SERIES 190 OR APPROVED EQUIVALENT.

TYPICAL RECESSED REFLECTIVE PAVEMENT MARKERS

	D	T (min.)
Precast Reinforced Concrete Section	1.2 m (4'-0")	100 (4)
	1.5 m (5'-0")	125 (5)

NOTE:
VALVE VAULT DIA. SHALL BE 48" FOR VALVES 8" OR SMALLER, AND 60" FOR VALVES 12" OR LARGER AND SHALL BE PRECAST CONCRETE SECTIONS.



VALVE VAULT

ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 56 AT KIRK / FARNSWORTH

MISCELLANEOUS DETAILS

SCALE: VERT. HORIZ.

DATE APR 06 2007

DRAWN BY BAH

CHECKED BY APS

PLAN		BY	DATE
	SURVEYED		
	PLOTTED		
	RT. OF WAY CHECKED		
NOTE BOOK	CADD FILE NAME		
NO.			

PROFILE		BY	DATE
	SURVEYED		
	PLOTTED		
	GRADES CHECKED		
	B.M. NOTED		
NOTE BOOK	STRUCTURE NOTAT'NS CH'KD		
NO.			

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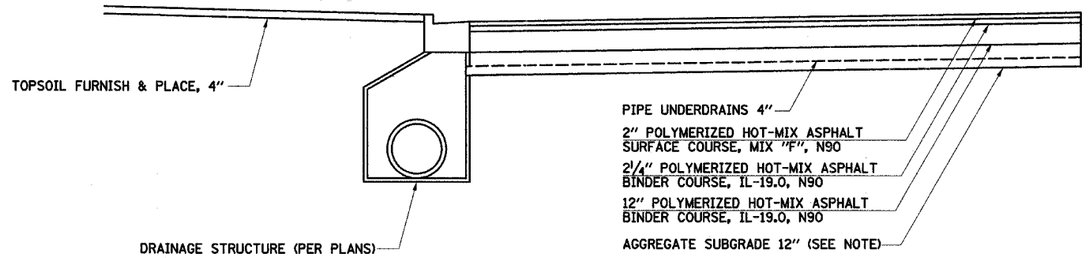
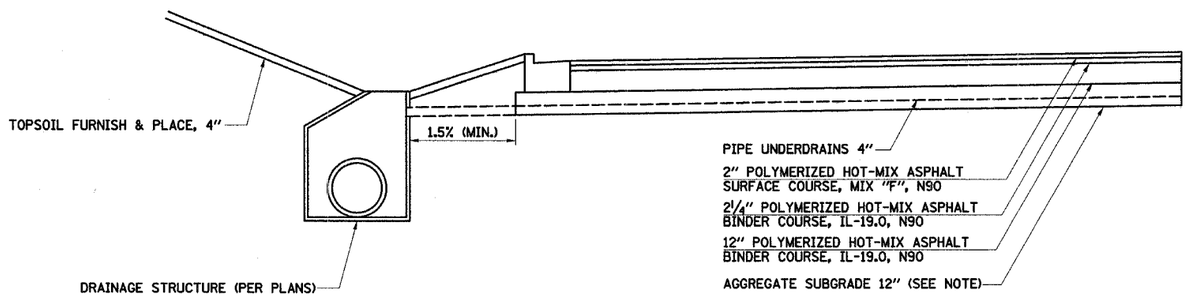
4/7/2007

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	01-00273-00-CH	KANE	172	133
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

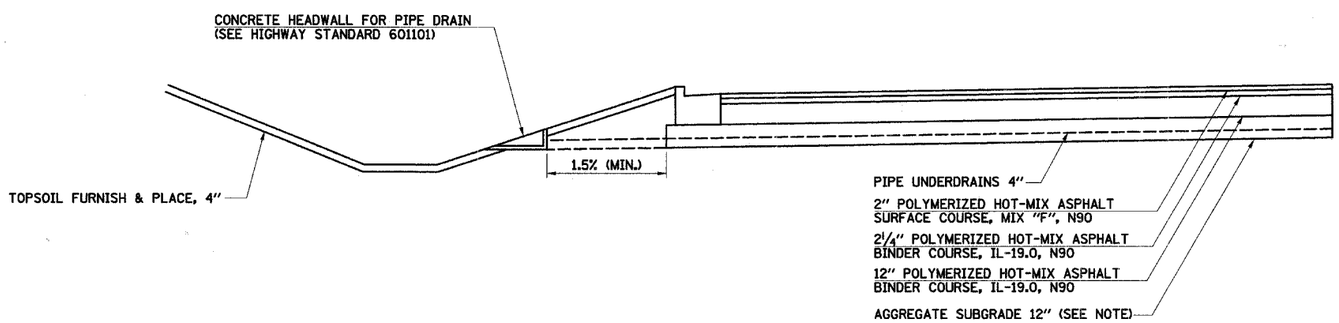
CONTRACT NO. 83906



PIPE UNDERDRAINS (CASE I OUTLET – DRAINAGE STRUCTURE IN CURB)



PIPE UNDERDRAINS (CASE II OUTLET – DRAINAGE STRUCTURE BEHIND CURB)



PIPE UNDERDRAINS (CASE III OUTLET – DITCH SECTION)

NOTE:
PIPE UNDERSRAINS SHALL BE PLACED AT THE BOTTOM OF THE POROUS GRANULAR EMBANKMENT, SUBGRADE (PGES) LAYER IF LOCATED WITHIN THE LIMITS OF AN UNDERCUT AREA. SEE TYPICAL SECTIONS FOR LOCATIONS REQUIRING UNDERCUT AND BACKFILL WITH PGES.

ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 56 AT KIRK / FARNSWORTH

MISCELLANEOUS DETAILS

SCALE: VERT. HORIZ.

DATE: APR 06 2007

DRAWN BY BAH

CHECKED BY APS

PLAN		BY	DATE
	SURVEYED		
	PLOTTED		
	HORIZ. CHECKED		
	RT. OF WAY CHECKED		
	CADD FILE NAME		
NOTE BOOK NO.			

PROFILE		BY	DATE
	SURVEYED		
	PLOTTED		
	HORIZ. CHECKED		
	B.M. NOTED		
	STRUCTURE NOTATIONS CHKD		
NOTE BOOK NO.			

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4/7/2007

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	01-00273-00-CH	KANE	172	134
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

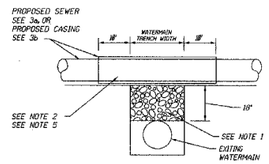
CONTRACT NO. 83906

PLAN		BY	DATE
	SURVEYED		
	PLOTTED		
	ROADWAY CHECKED		
	R.O.W. CHECKED		
NOTE BOOK			
NO.			

WATER AND SEWER SEPARATION REQUIREMENTS DETAIL

EXISTING WATERMAIN BELOW PROPOSED SEWER LINE WITH 18" MINIMUM SEPARATION.

NOTE: CLASS IV MATERIAL TO BE COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY.

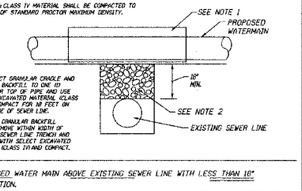


NOTES:

1. IF SELECT GRANULAR BACKFILL EXISTS, REMOVE WITHIN WIDTH OF PROPOSED SEWER TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT.
2. ONE1 SELECT GRANULAR CRADLE AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF PIPE AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT FOR 18 FEET ON EITHER SIDE OF WATER MAIN.
3. a. CONSTRUCT 18 FEET OF PROPOSED SEWER WITH WATERMAIN QUALITY PIPE AND PRESSURE TEST, OR;
   b. USE 18 FEET OF CASING FOR PROPOSED SEWER AND SEAL ENDS OF CASING.
4. POINT LOADS SHALL NOT BE ALLOWED BETWEEN SEWER OR SEWER CASING AND WATER MAIN.
5. PROVIDE ADEQUATE SUPPORT FOR EXISTING WATERMAIN TO PREVENT DAMAGE DUE TO SETTLEMENT OF SEWER TRENCH.

PROPOSED WATERMAIN ABOVE EXISTING SEWER LINE WITH 18" MINIMUM SEPARATION.

NOTE: CLASS IV MATERIAL SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY.

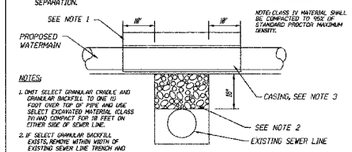


NOTES:

1. ONE1 SELECT GRANULAR CRADLE AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF PIPE AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT FOR 18 FEET ON EITHER SIDE OF SEWER LINE.
2. IF SELECT GRANULAR BACKFILL EXISTS, REMOVE WITHIN WIDTH OF EXISTING SEWER LINE TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT.

PROPOSED WATER MAIN ABOVE EXISTING SEWER LINE WITH LESS THAN 18" SEPARATION.

NOTE: CLASS IV MATERIAL SHALL BE COMPACTED TO 95% OF STANDARD PROCTOR MAXIMUM DENSITY.



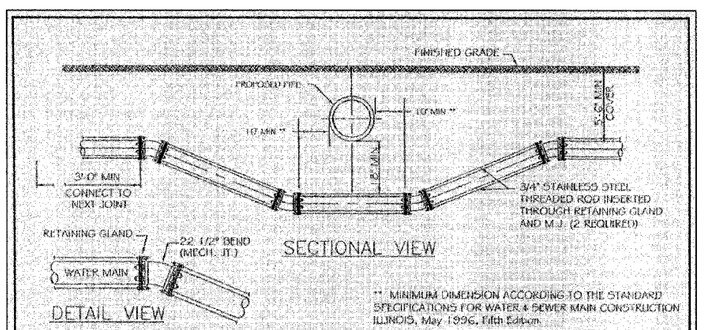
NOTES:

1. ONE1 SELECT GRANULAR CRADLE AND GRANULAR BACKFILL TO ONE (1) FOOT OVER TOP OF PIPE AND USE SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT FOR 18 FEET ON EITHER SIDE OF SEWER LINE.
2. IF SELECT GRANULAR BACKFILL EXISTS, REMOVE WITHIN WIDTH OF EXISTING SEWER LINE TRENCH AND REPLACE WITH SELECT EXCAVATED MATERIAL (CLASS IV) AND COMPACT.
3. USE A CASING FOR PROPOSED WATER MAIN AND SEAL ENDS OF CASING.
4. POINT LOADS SHALL NOT BE ALLOWED BETWEEN WATER MAIN OR WATERMAIN AND SEWER.

▲ TAKEN FROM THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS - SEE PAGES 196-199.

U-5

PROFILE		BY	DATE
	SURVEYED		
	PLOTTED		
	ROADWAY CHECKED		
	R.O.W. CHECKED		
NOTE BOOK	B.M. NOTED		
NO.	STRUCTURE NOTATNS CHKD		



** MINIMUM DIMENSION ACCORDING TO THE STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION ILLINOIS, May 1996, Fifth Edition.

NOTES:

1) For sizes larger than 16", special design will be required.
2) In lieu of installing stainless steel rods, the mechanical joints can be restrained with the Megalug Series 1100 as manufactured by EBBA Iron Inc. or approved equal. Also, the bell and spigot joints shall be restrained on either side of the mechanical joints by EBBA Iron 1700 series restraint or approved equal and the restraint distance shall be in accordance with Exhibits III-C-9 and III-C-10.

AURORA ENGINEERING

REVISIONS

DATE | BY

WATER MAIN LOWERING DETAIL

SCALE: NOT TO SCALE | CHECKED: DF | DRAWING NUMBER:
DATE: 1/04 | DRAWN: BJV | EXHIBIT III-C-8

MINIMUM RESTRAINT LENGTH (ft) ON BOTH SIDES OF THE FITTING

FITTING TYPE/NOMINAL SIZE		6"	8"	12"	16"
11 1/4 ° BEND		2	3	4	6
22 1/2 ° BEND		5	6	9	11
45 ° BEND		10	13	18	23
90 ° BEND		23	30	43	56
DEAD END		31	40	57	74
TOP SIDE OF A VERTICAL OFFSET[1]		19	25	35	46
TEE RUN X BRANCH[2]	6" BY	24			
TEE RUN X BRANCH[2]	8" BY	22	34		
TEE RUN X BRANCH[2]	12" BY	18	31	51	
TEE RUN X BRANCH[2]	16" BY	14	28	48	67
REDUCER[3]	8" BY	17			
REDUCER[3]	12" BY	42	30		
REDUCER[3]	16" BY	62	54	31	

[1] ALL JOINTS WITHIN THE LOWERED SECTION OF THE WATERMAIN SHALL BE RESTRAINED OR SHALL BE SOLID PIPE. THE ABOVE DISTANCES REFLECT THE REQUIRED RESTRAINT DISTANCE ON THE NORMALLY ELEVATED WATERMAIN EITHER SIDE OF THE 45° FITTING OF THE VERTICAL OFFSET(OR LOWERING).

[2] MINIMUM OF 8 FT OF SOLID PIPE IS REQUIRED ON BOTH SIDES OF THE FITTING ON THE RUN SIDE. DISTANCE INDICATES THE LENGTH OF RESTRAINT ON THE BRANCH SIDE OR THE SIDE PERPENDICULAR TO THE TEE RUN WATERMAIN.

[3] INDICATES THE DISTANCE FROM THE LARGER END OF THE REDUCER.

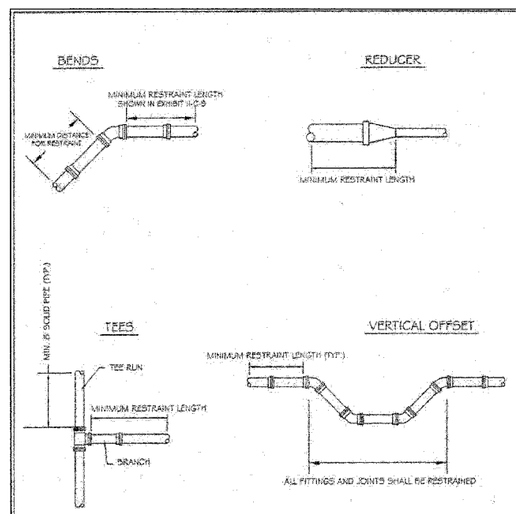
NOTES: 1) ALL NUTS AND BOLTS SHALL BE STAINLESS STEEL.
2) THE ENTIRE RESTRAINT SYSTEM FROM THE FITTING TO THE MINIMUM RESTRAINT DISTANCE MUST BE INSPECTED BY THE CITY OF AURORA OR IT'S REPRESENTATIVE PRIOR TO BACKFILLING.

AURORA ENGINEERING

DATE | BY

WATERMAIN RESTRAINT LENGTH TABLE

SCALE: NOT TO SCALE | CHECKED: PJH
DATE: 2 / 04 | DRAWN: DF | EXHIBIT III-C-9



NOTES:
1) THE EXACT LENGTHS FOR RESTRAINT ARE SHOWN IN EXHIBIT III-C-9

AURORA ENGINEERING

REVISIONS

DATE | BY

WATER MAIN RESTRAINT DETAIL

SCALE: NOT TO SCALE | CHECKED: DF
DATE: 1/04 | DRAWN: BJV | EXHIBIT III-C-10

ILLINOIS DEPARTMENT OF TRANSPORTATION

ILLINOIS ROUTE 56 AT KIRK / FARNSWORTH

MISCELLANEOUS DETAILS

SCALE: VERT. HORIZ.

DATE: APR 06 2007

DRAWN BY BAH

CHECKED BY APS

CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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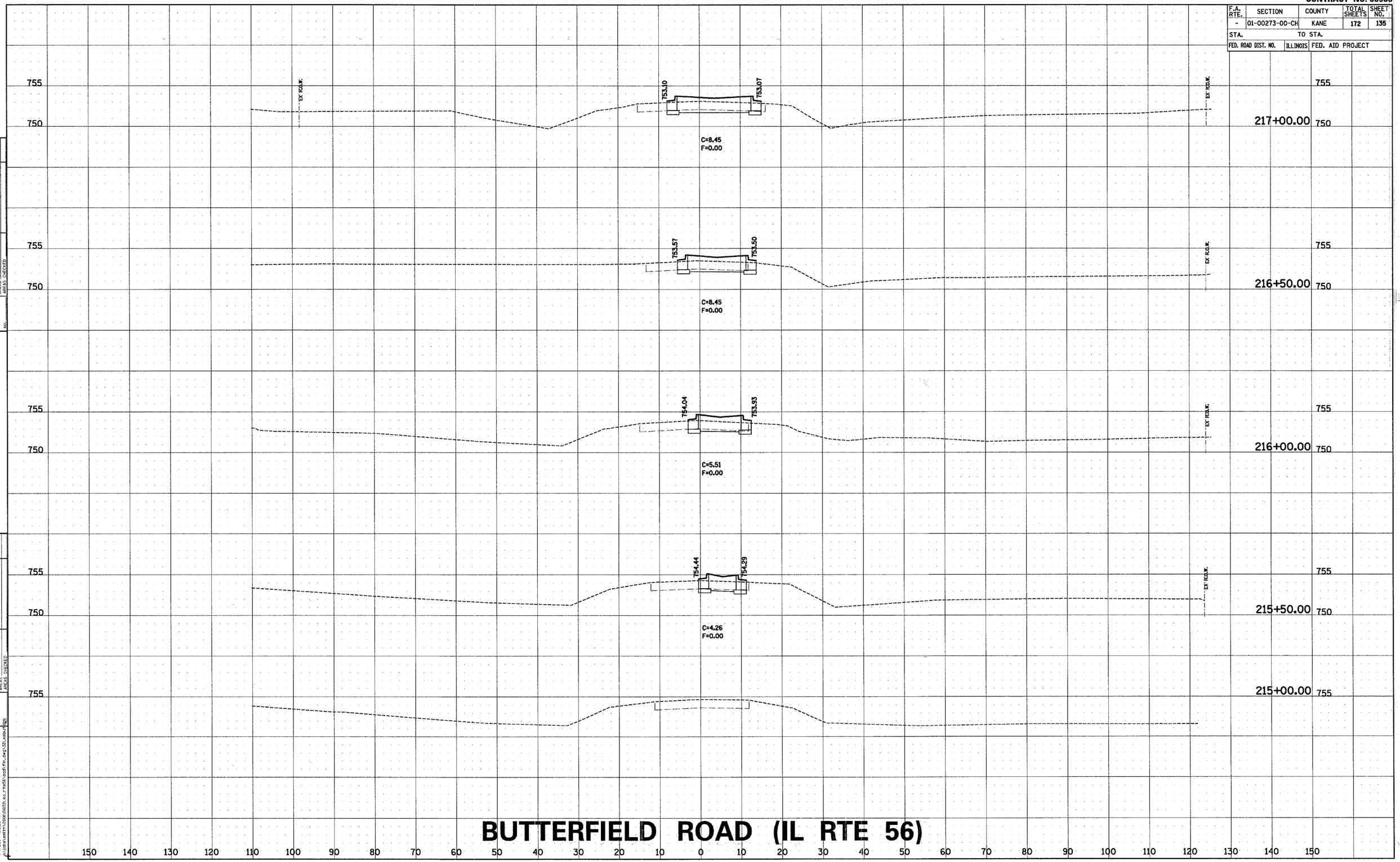
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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NOTE BOOK			
NO.			

ORIGINAL SURVEY	SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED	BY	DATE
NOTE BOOK			
NO.			

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COMPANY CONTACT: Tony SIMMONS
CLIENT: IDOT
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CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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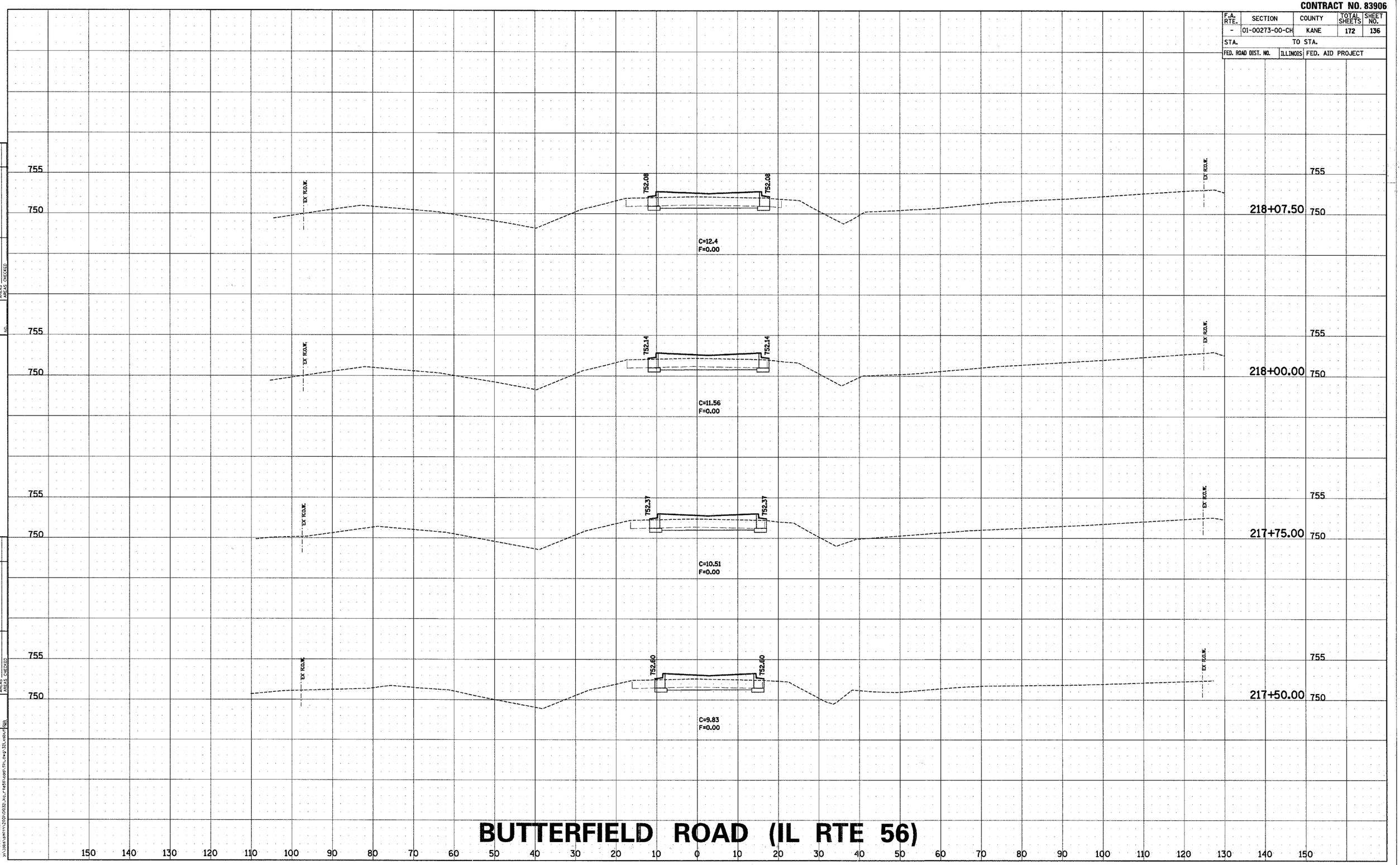

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TEMPLATE		
AREAS		
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NOTE BOOK		
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

COMPANY NAME: SEC, INC.
PROJECT CONTACT: TONY SIMMONS
DATE: 01/31/07
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CONTRACT NO. 83906

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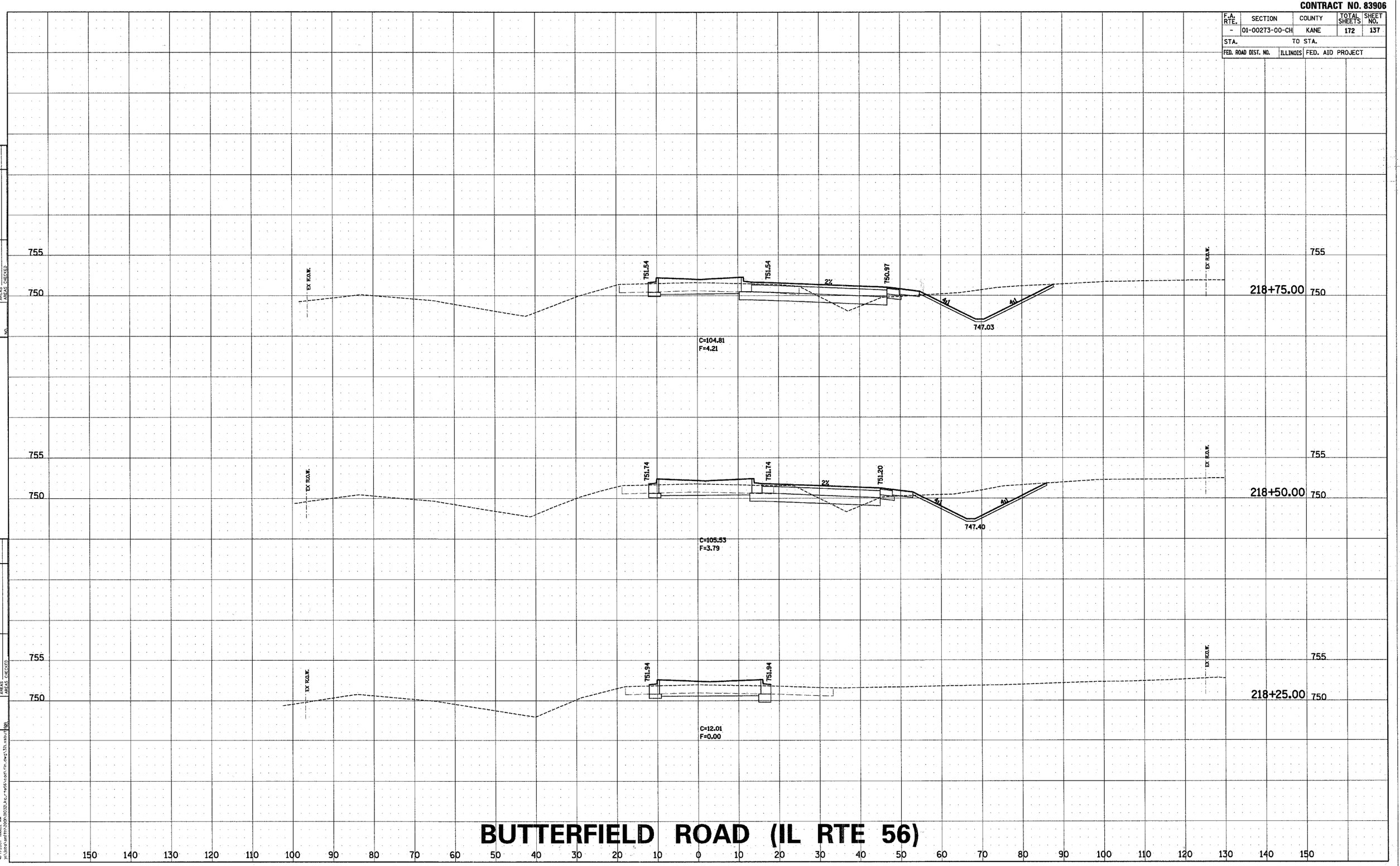
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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CONTRACT NO. 83906

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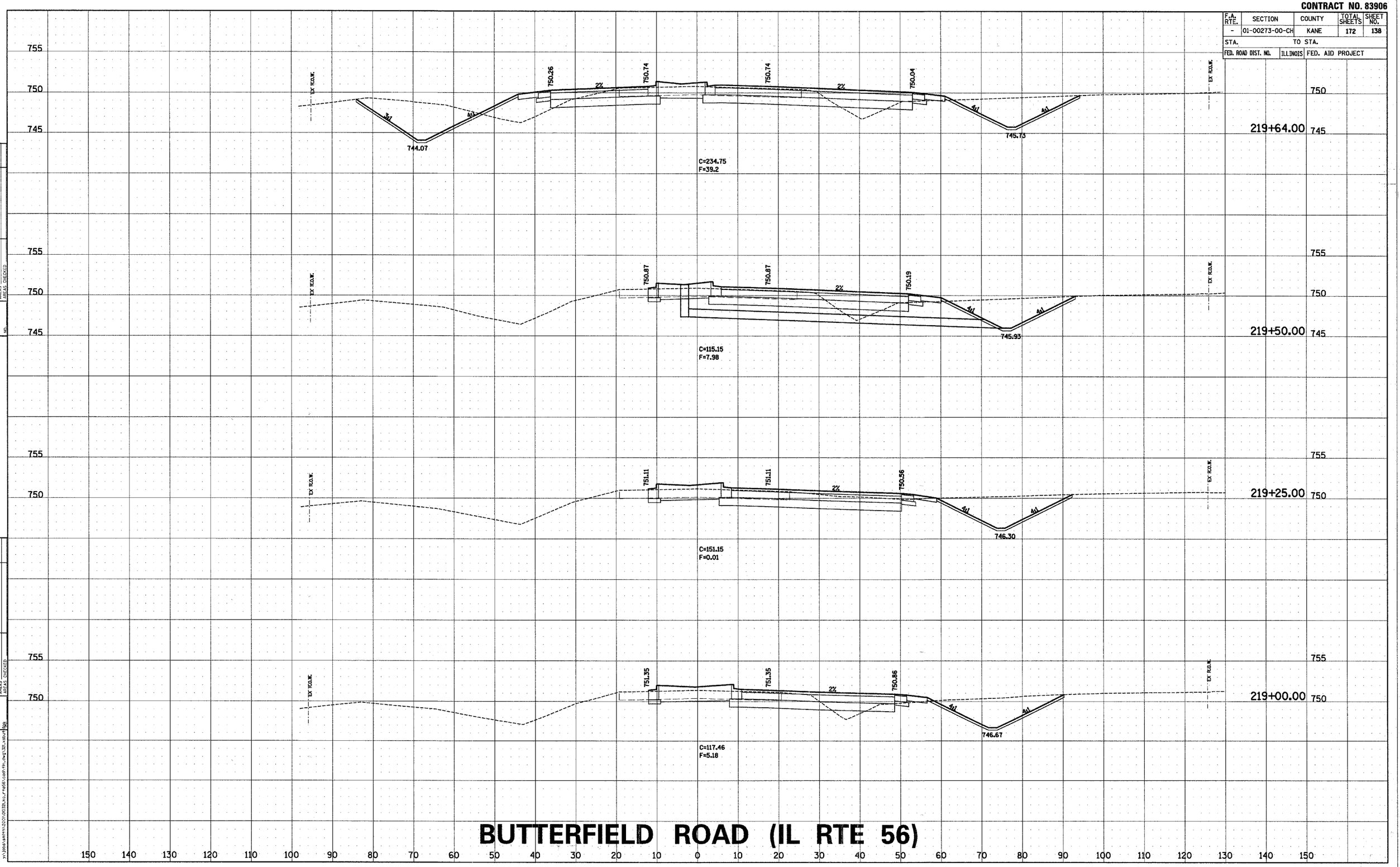
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



BUTTERFIELD ROAD (IL RTE 56)

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NOTE BOOK	NO.		

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TEMPLATE			
AREAS			
AREAS CHECKED			
NOTE BOOK	NO.		

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PHONE: 630-691-0900
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CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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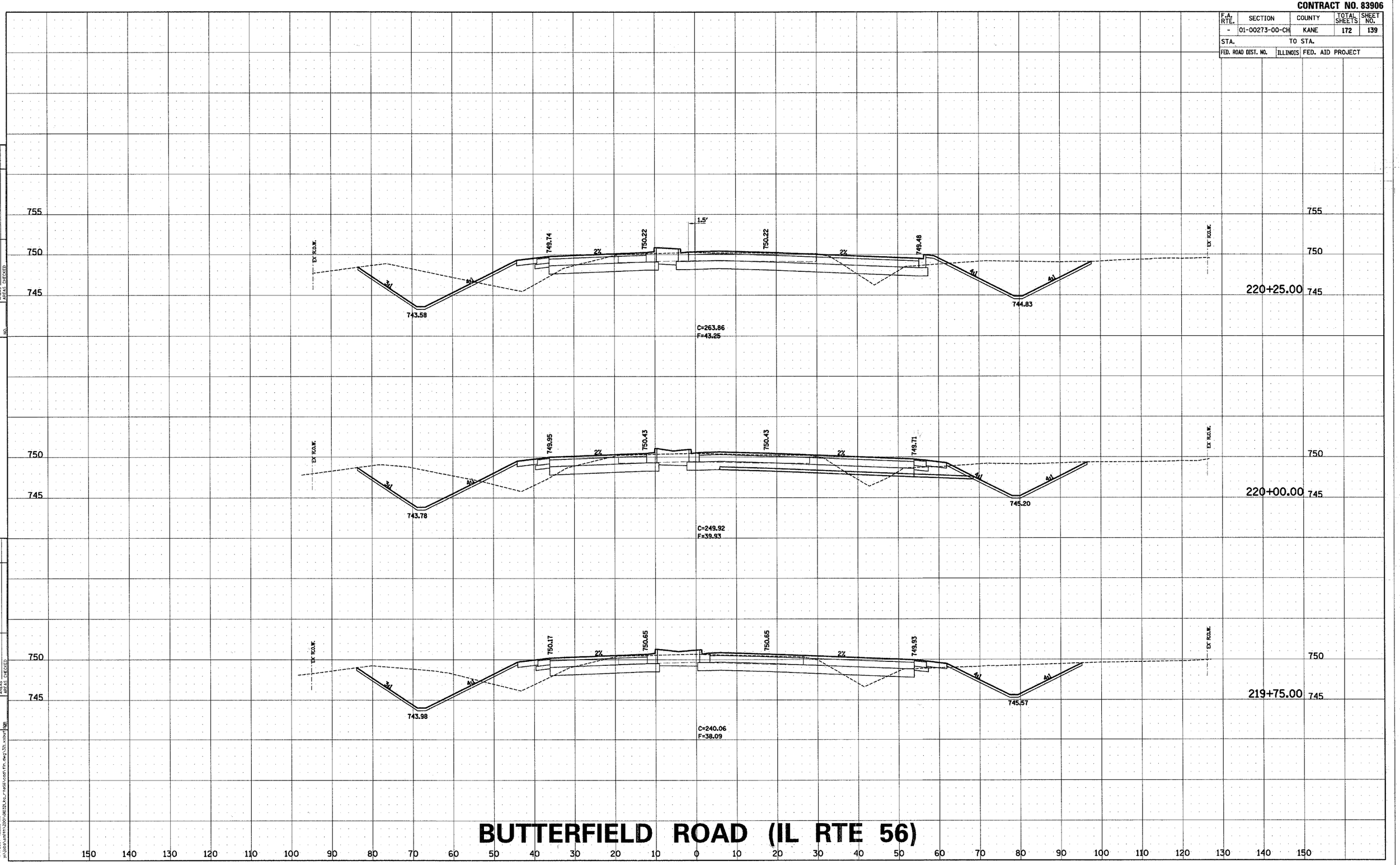
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



BUTTERFIELD ROAD (IL RTE 56)

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AREAS CHECKED		
NOTE BOOK		
NO.		

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SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
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PROJECT: CH273 - DOWNY SAMMONS
CLIENT: IDOT
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CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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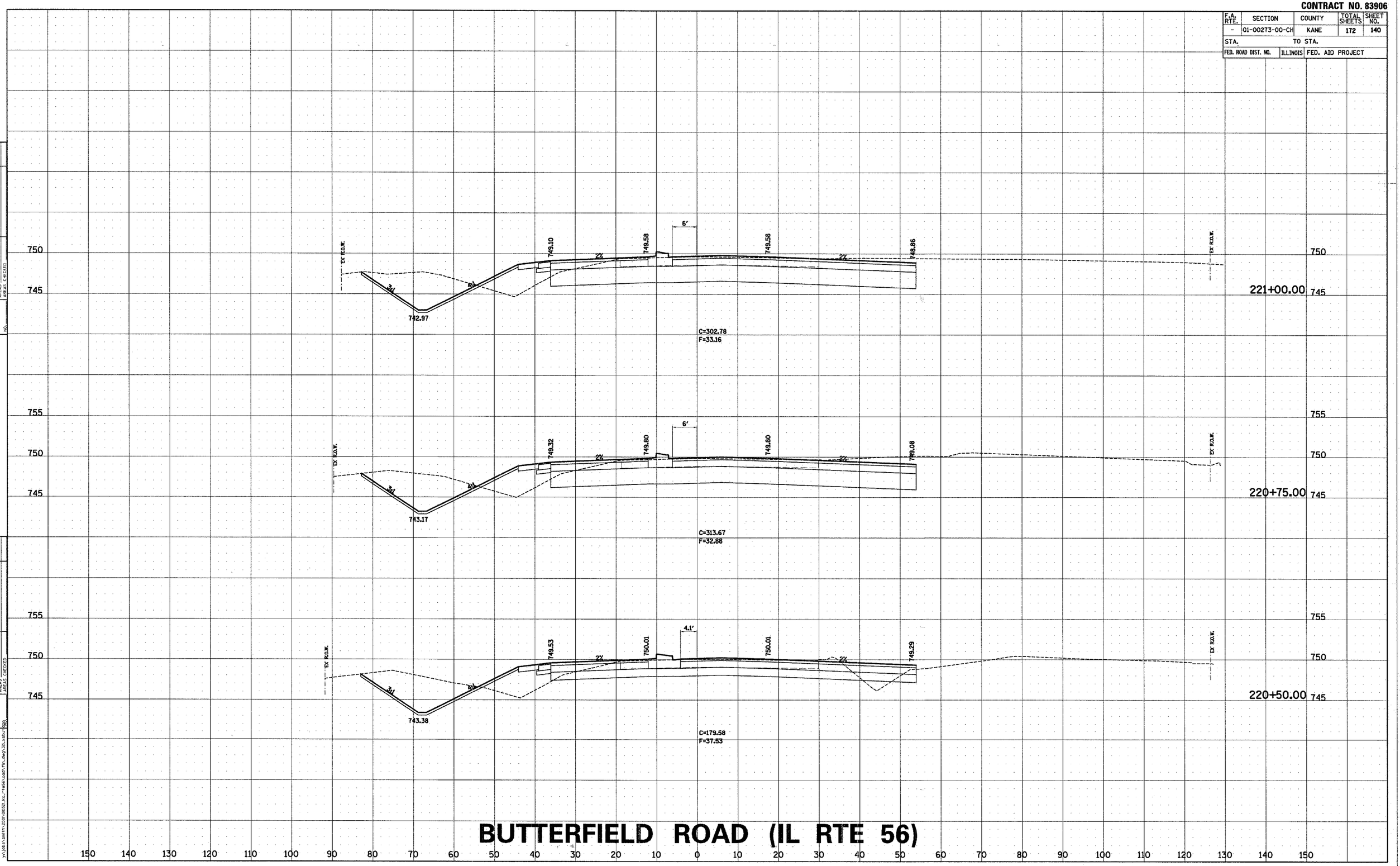
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



BUTTERFIELD ROAD (IL RTE 56)

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AREAS CHECKED		
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ORIGINAL SURVEY	BY	DATE
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AREAS		
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NOTE BOOK NO.		

COMPANY NAME: SEC, INC.
PROJECT CONTACT: TONY SIMMONS
CLIENT: IDOT
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CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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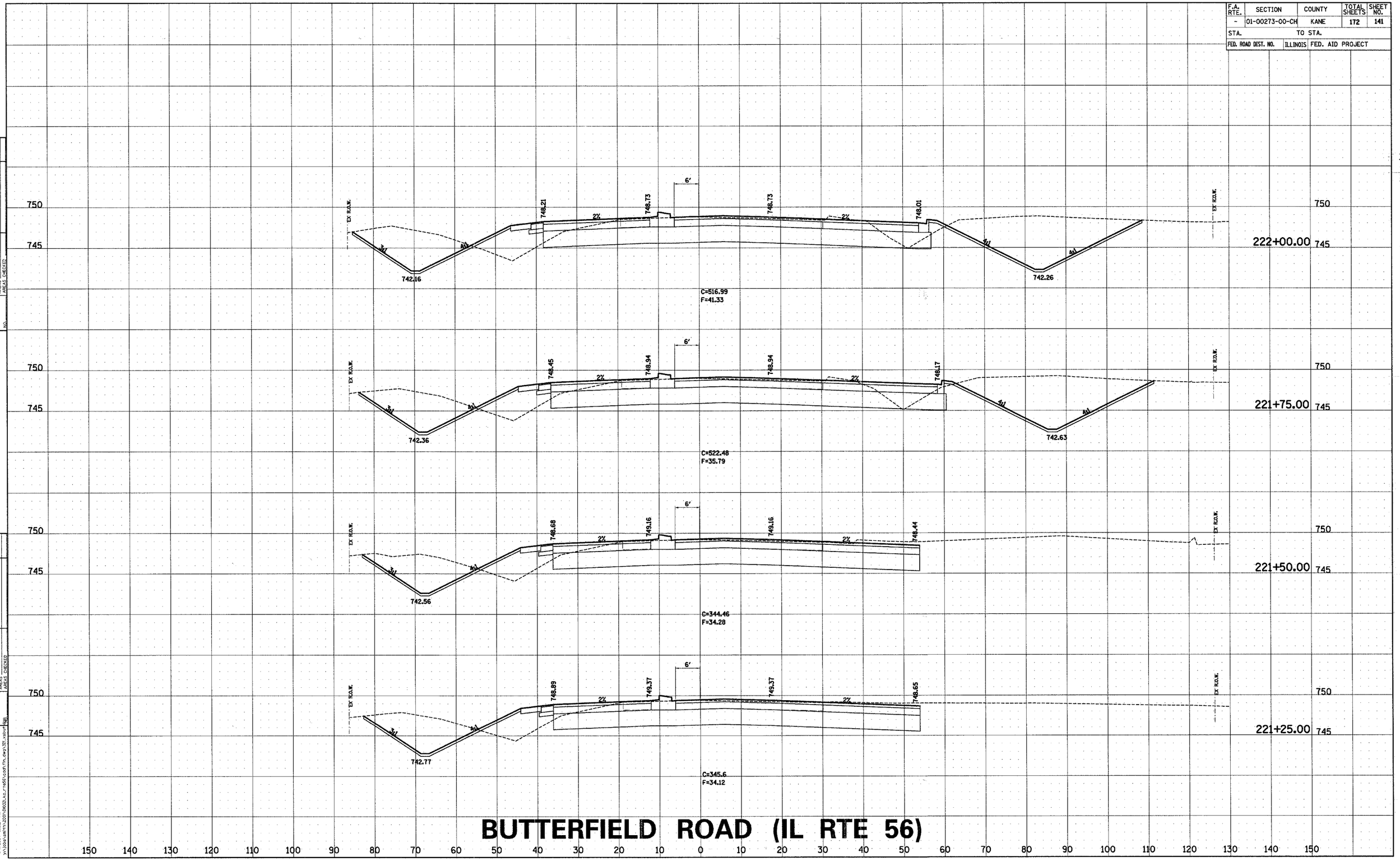

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NOTE BOOK NO.	SURVEYED		
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CREATED: 8/29/2014 8:08:04 AM
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CONTRACT NO. 83906

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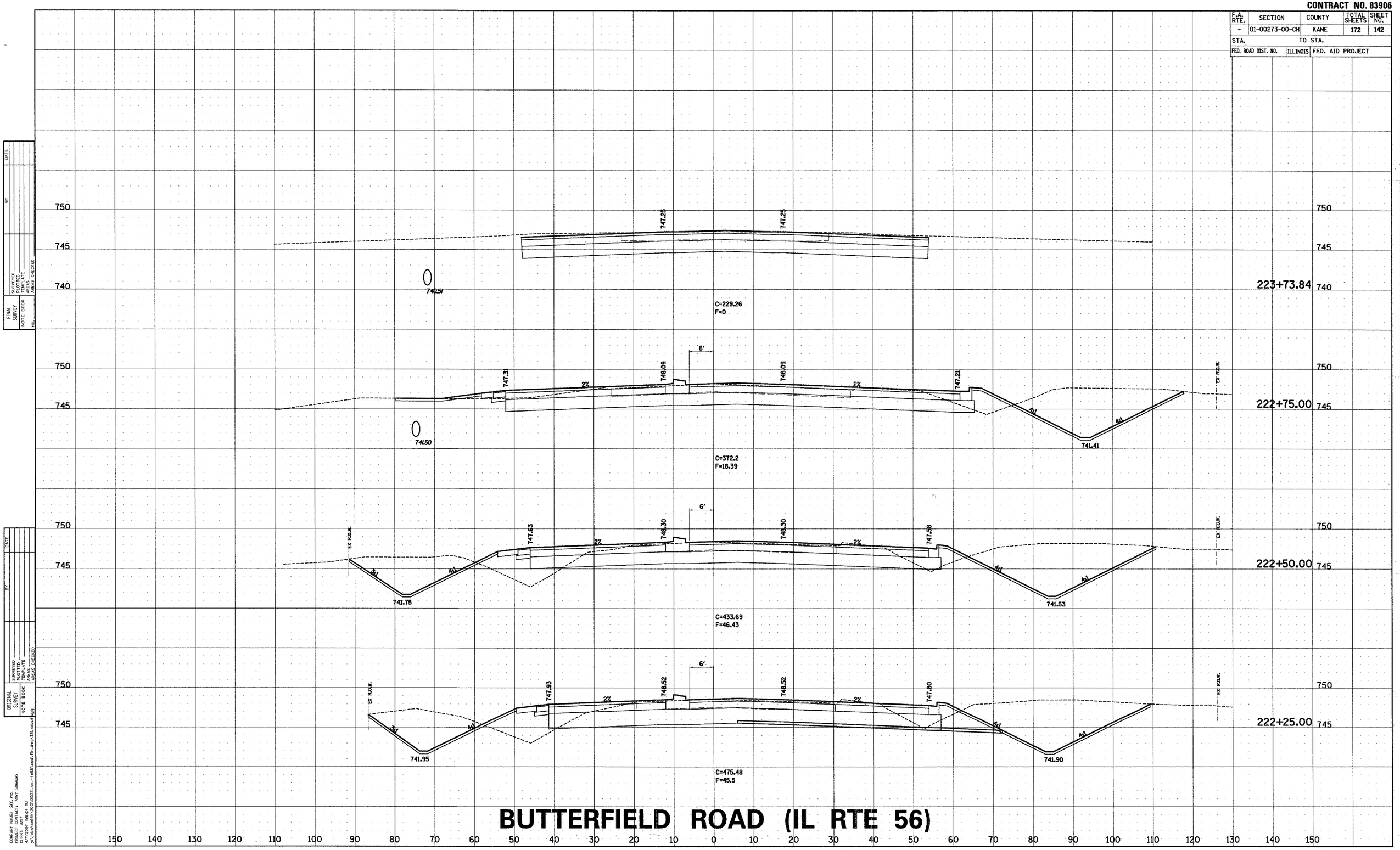

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COMPANY NAME: SEC, INC.
PROJECT CONTACT: TONY SIMMONS
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CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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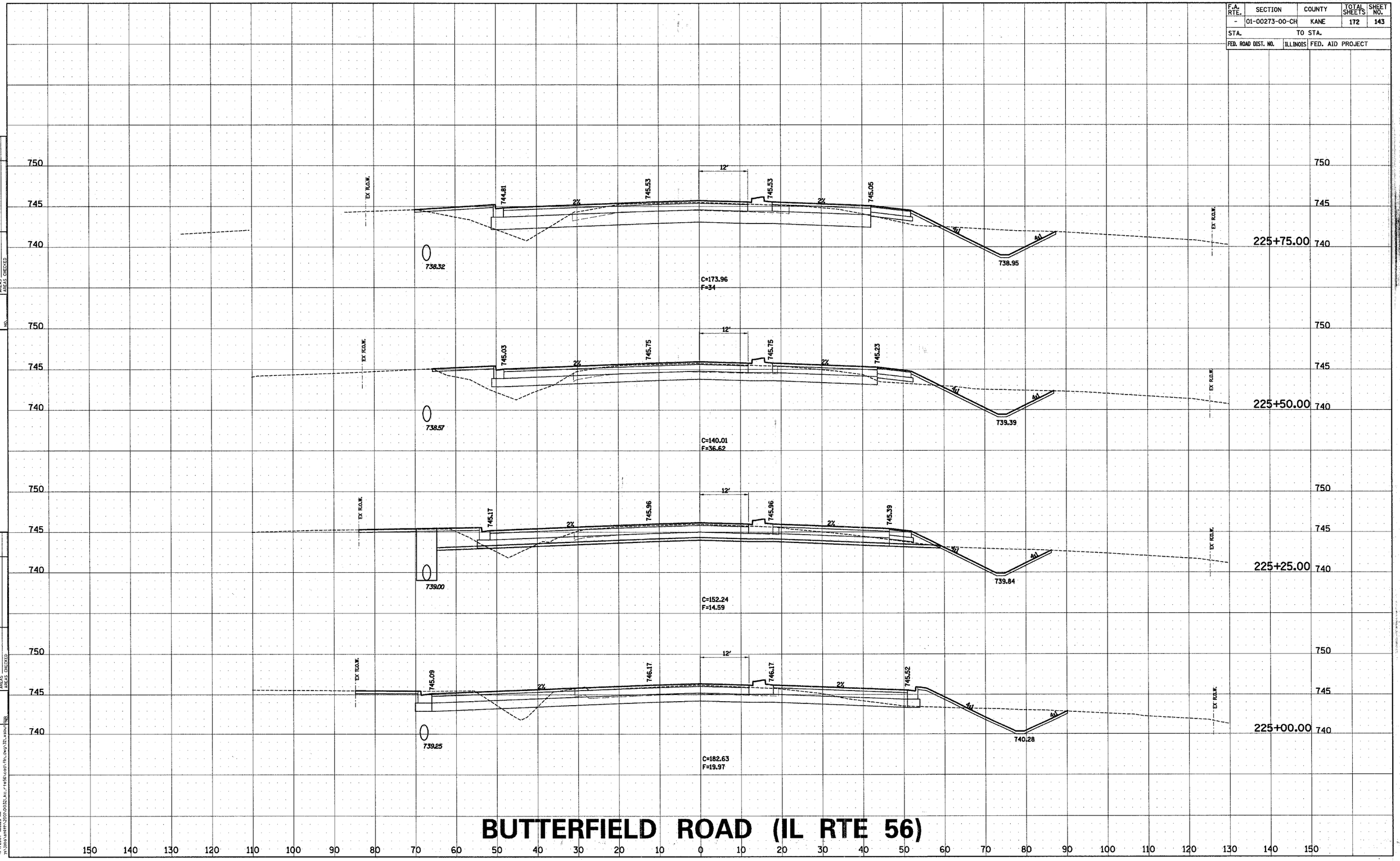
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DATE	BY	

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COMPANY NAME: SEC, INC.
PROJECT: CONTRACT 83906
CLIENT: DOT
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CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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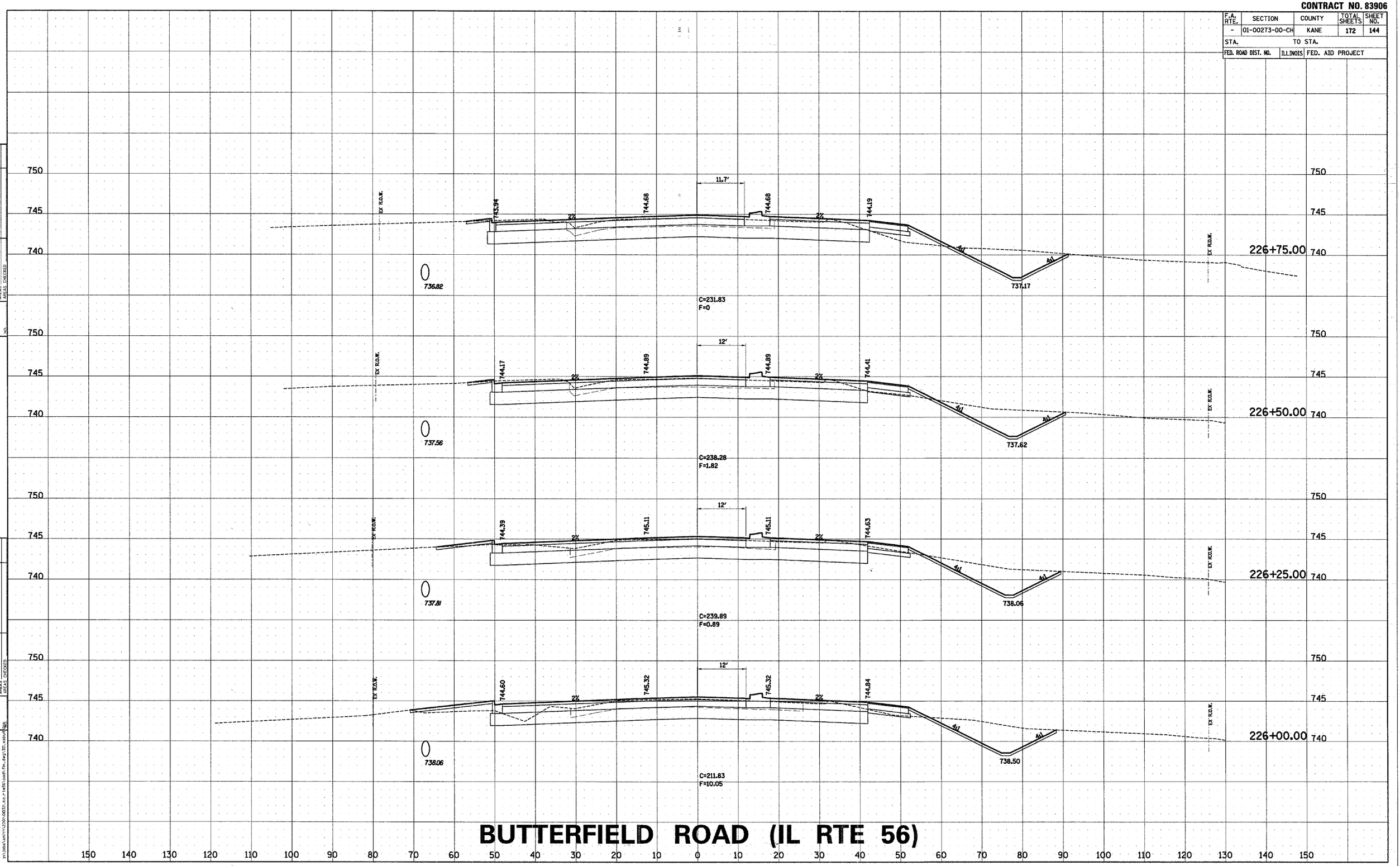
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



FINAL SURVEY	BY	DATE
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AREAS		
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NOTE BOOK NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
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NOTE BOOK NO.		

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PROJECT CONTACT: TONY SAMKOWS
PLOT SCALE: 1" = 20'
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CONTRACT NO. 83906

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STA.		TO STA.		
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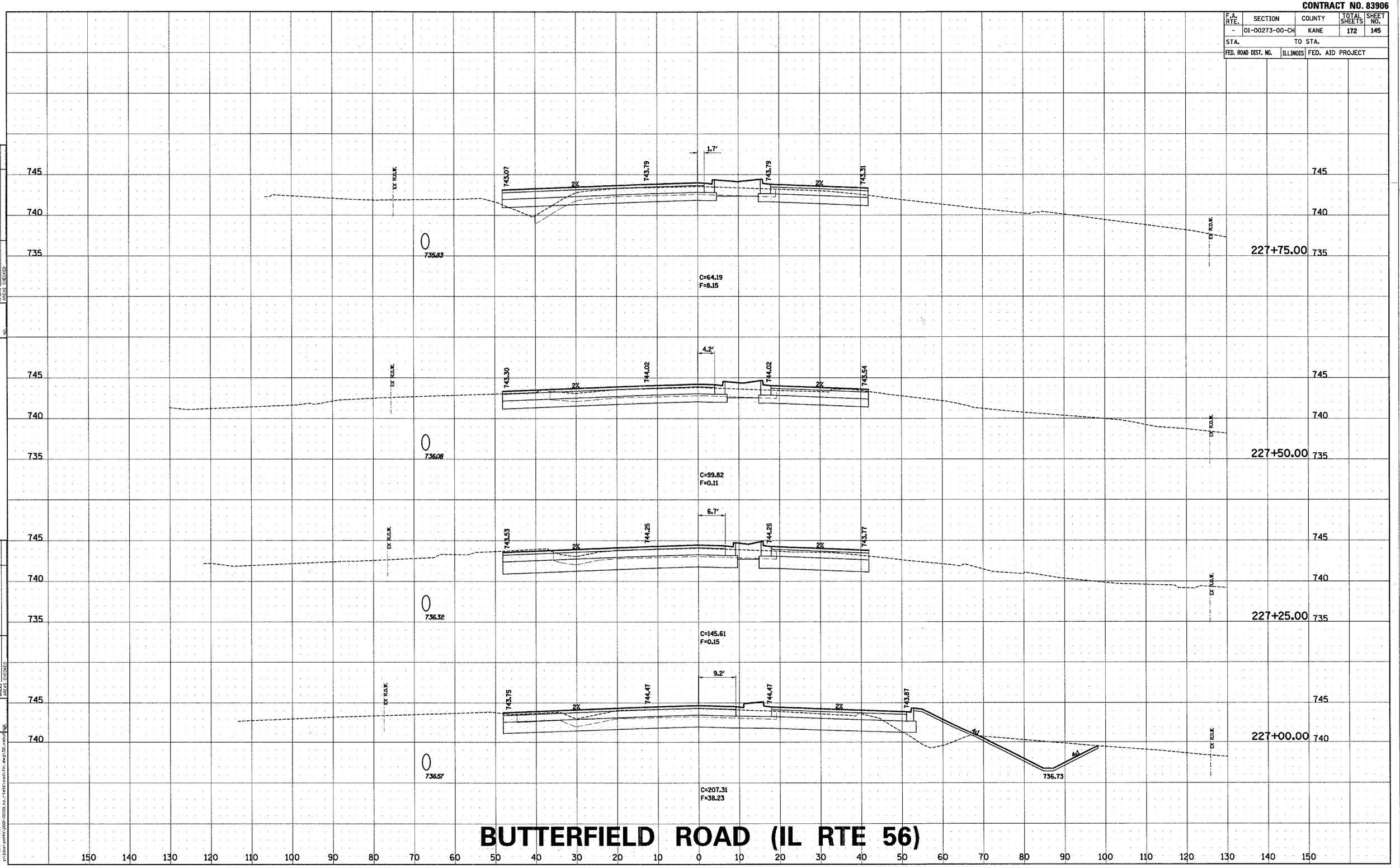

FINAL SURVEY	DATE	BY
SURVEYED		
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AREAS CHECKED		
NOTE BOOK NO.		

ORIGINAL SURVEY	DATE	BY
SURVEYED		
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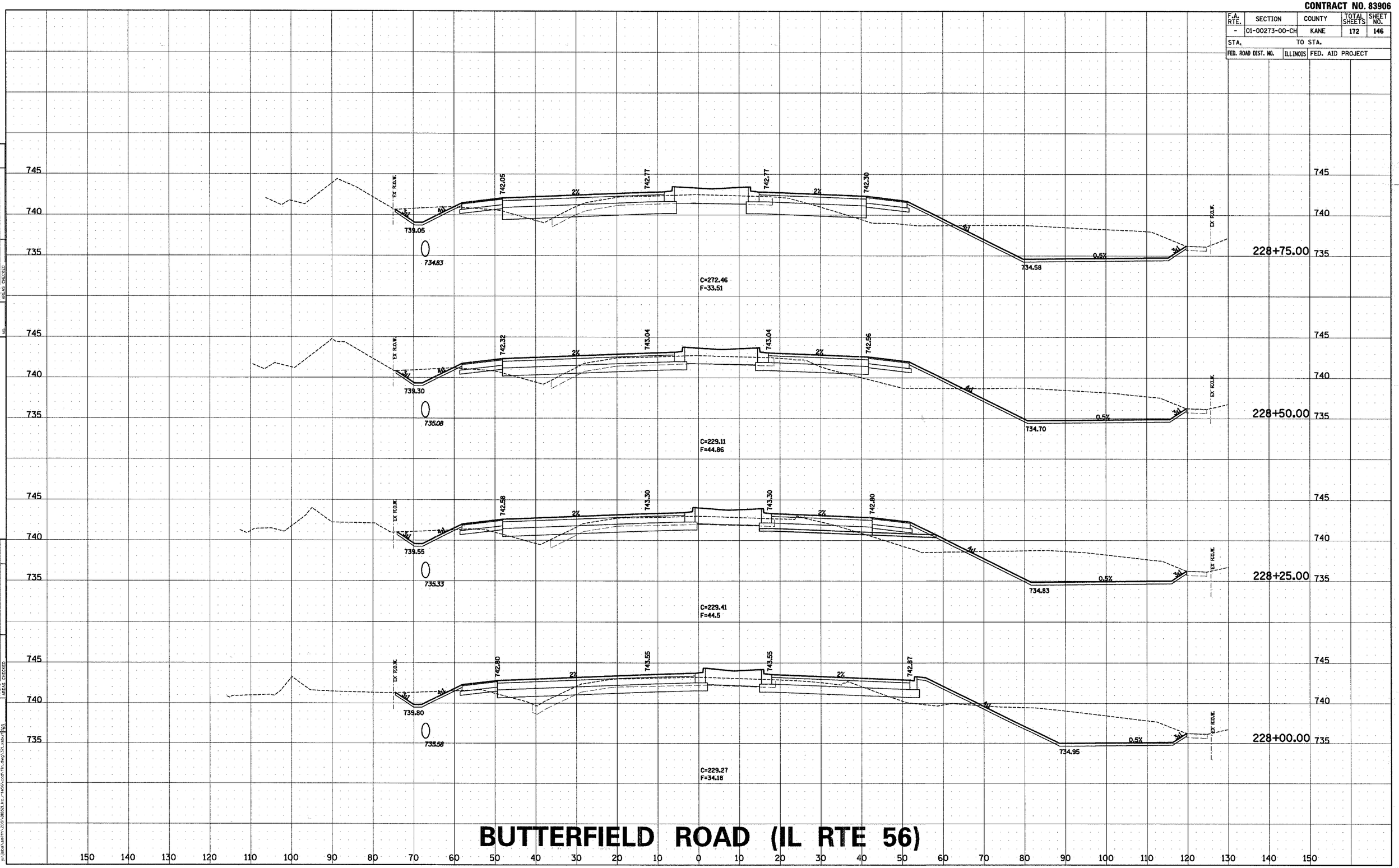
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

COMPANY NAME: SEG, INC.
PROJECT CONTACT: TONY SIMMONS
PHONE: 630-406-8000
6/13/2012 8:08:25 AM
y:\jobs\smith\2009\0033\sc-r1450\cont\fn_dwg\35_sdbd.dgn

CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	01-00273-00-CH	KANE	172	146
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



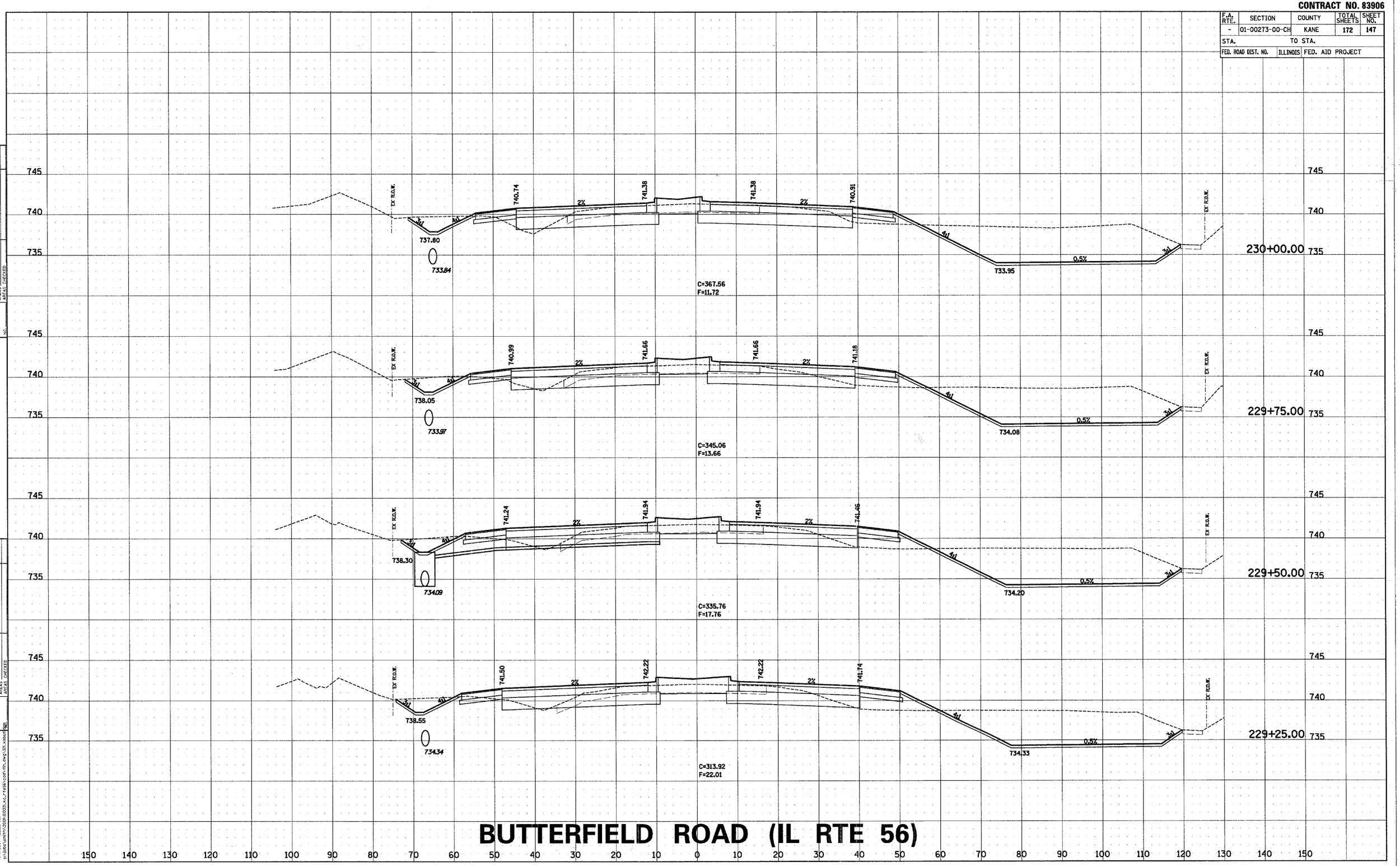
FINAL SURVEY	BY	DATE
NOTE BOOK NO.		
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
NOTE BOOK NO.		
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

COMPANY NAME: SEC, Inc.
PROJECT CONTACT: TONY SIMMONS
PROJECT NO.: 2003-0830
4/7/2003 8:08:26 AM
y:\dgn\geom\2003\0830L.kc.rt56\cross\tb_dwg\3tb_xsbur.dgn

CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	01-00273-00-CH	KANE	172	147
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



DATE	BY	
		SURVEYED
		PLOTTED
		TEMPLATE
		AREAS
		AREAS CHECKED

FINAL SURVEY NOTE BOOK NO.

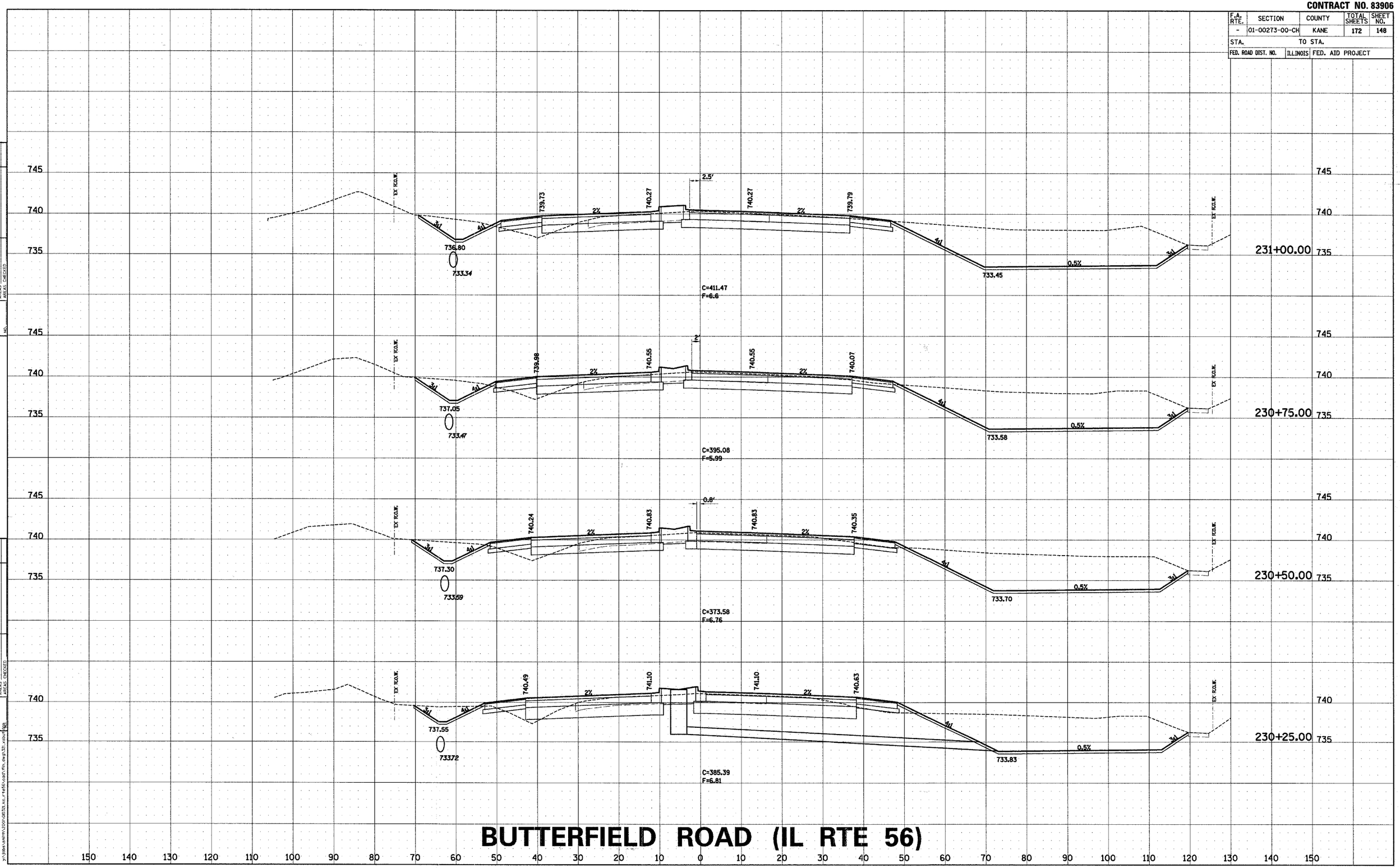
DATE	BY	
		SURVEYED
		PLOTTED
		TEMPLATE
		AREAS
		AREAS CHECKED

ORIGINAL SURVEY NOTE BOOK NO.

COMPANY NAME: SEC, INC.
PROJECT: CH01, DWG: SMMONS
CLIENT: DOT
4/7/2010 9:46:06 AM
N:\Jobs\2007\2006-00035.kc_c-f-ed56\cont-tfh-dwg\321.xrdbnd

CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	01-00273-00-CH	KANE	172	148
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



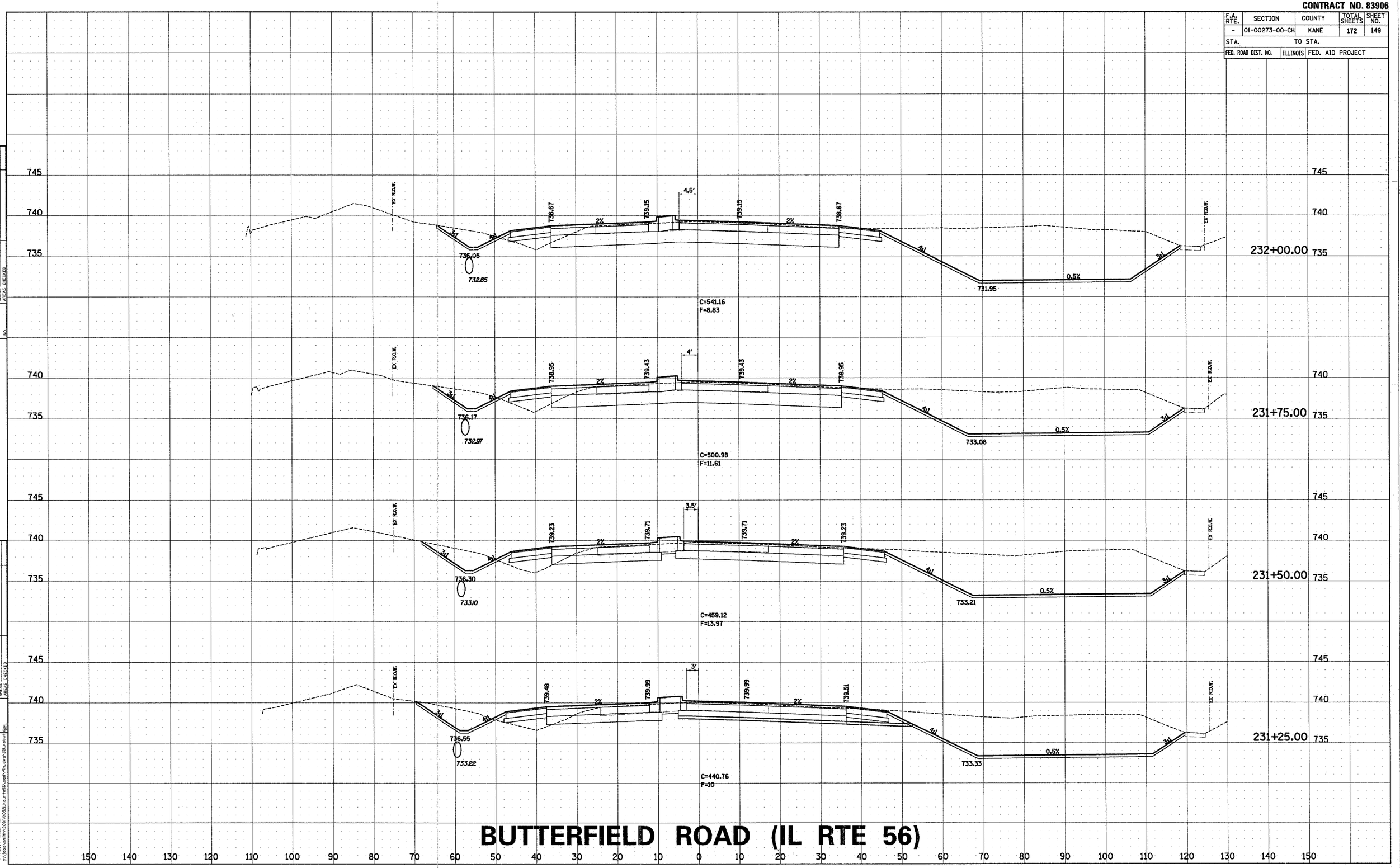
FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

COMPANY NAME: SEC, INC.
PROJECT CONTACT: TONY SIMMONS
CONTACT PHONE: 630-
4/7/2005 9:08:26 AM
y:\jobs\smith\00\0030\ks_r456\cad\fin_dwg\30.rsbu

CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	01-00273-00-CH	KANE	172	149
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



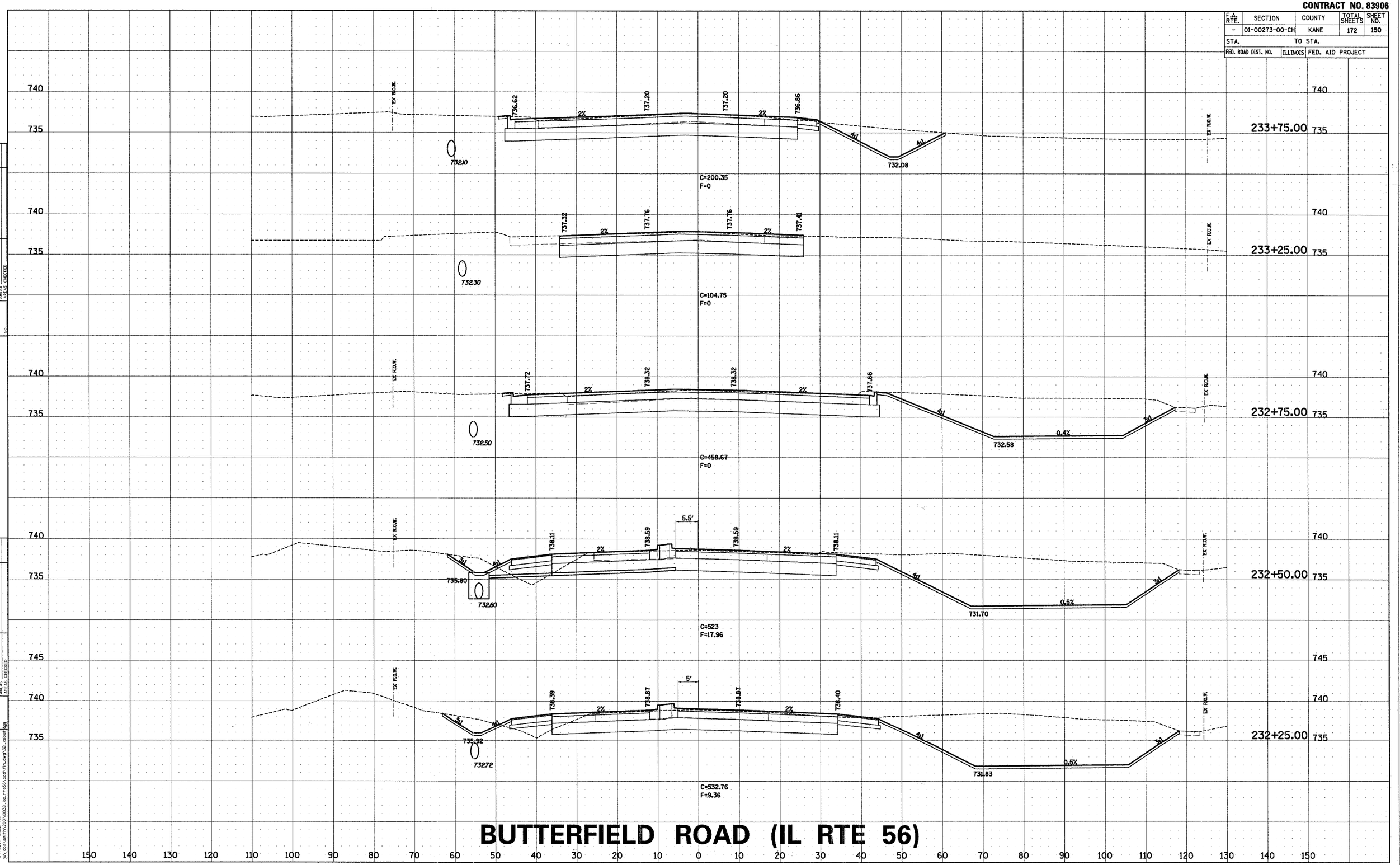
FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK		
NO.		

COMPANY NAME: SFC, INC.
PROJECT CONTACT: TONY SAMMONS
CLIENT: IDOT
CREATED: 8/29/07 AM
y:\jobs\smith\2001\0030.kc.r-56\cost\fin.dwg\33.x-fin.dwg

CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	01-00273-00-CH	KANE	172	150
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



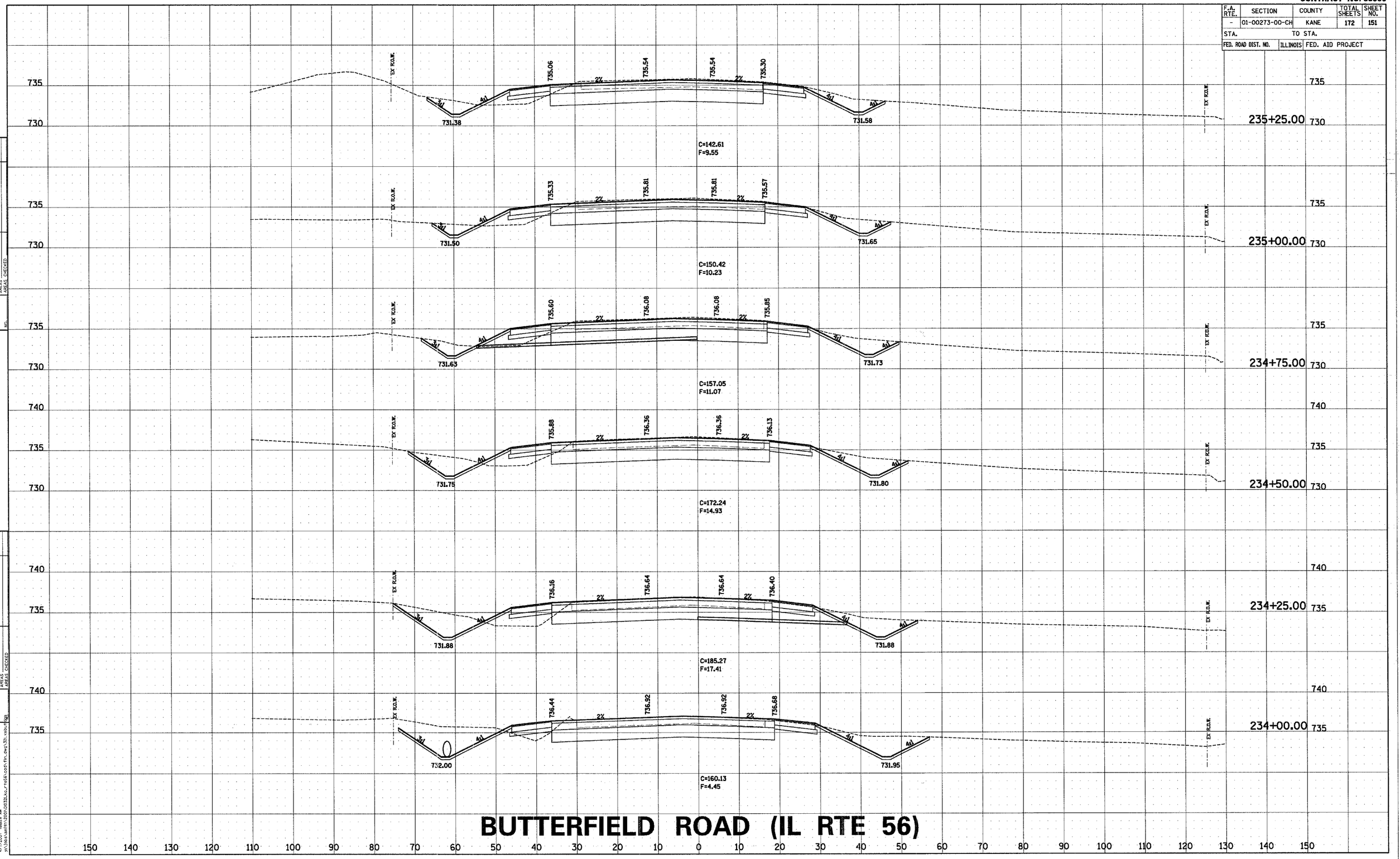
FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

COMPANY NAME: SEC, Pro.
PROJECT CONTACT: TONY SIMMONS
CLIENT: IDOT
LAST MODIFIED: 10/08/21 AM
Y:\Jobs\BRTN\200\0020_Acc_rep56\ccd\fin_dwg\30_xsbuf.dgn

CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	01-00273-00-CH	KANE	172	151
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



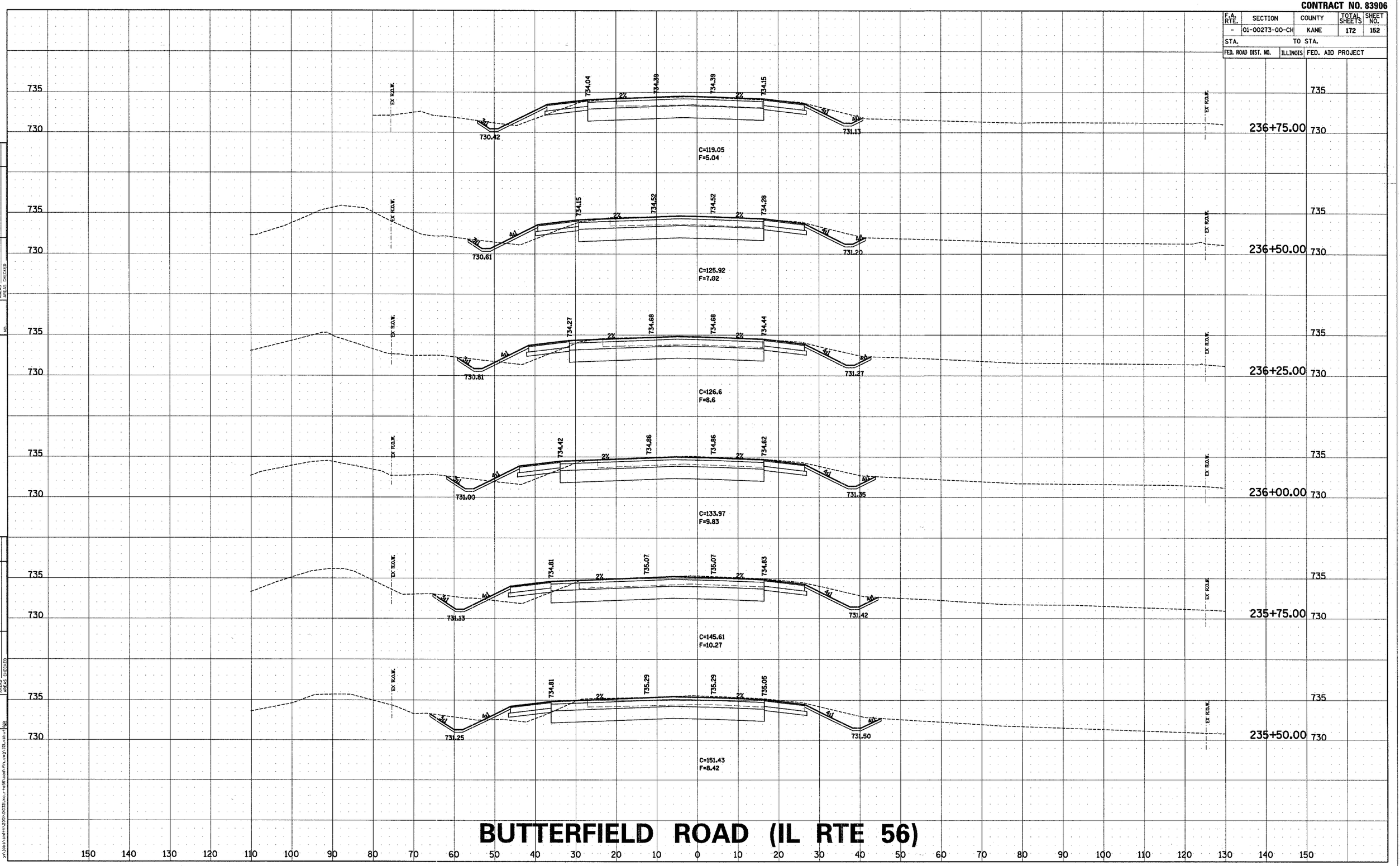
FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

COMPANY NAME: SEC PRO
PROJECT CONTACT: TONY SIMMONS
CLIENT: DOT
CREATED: 10/08/08 AM
y:\jobs\walsh\2006\0635.kc.rte56\cost\fin.dwg\35\.xsd.dwg

CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	01-00273-00-CH	KANE	172	152
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



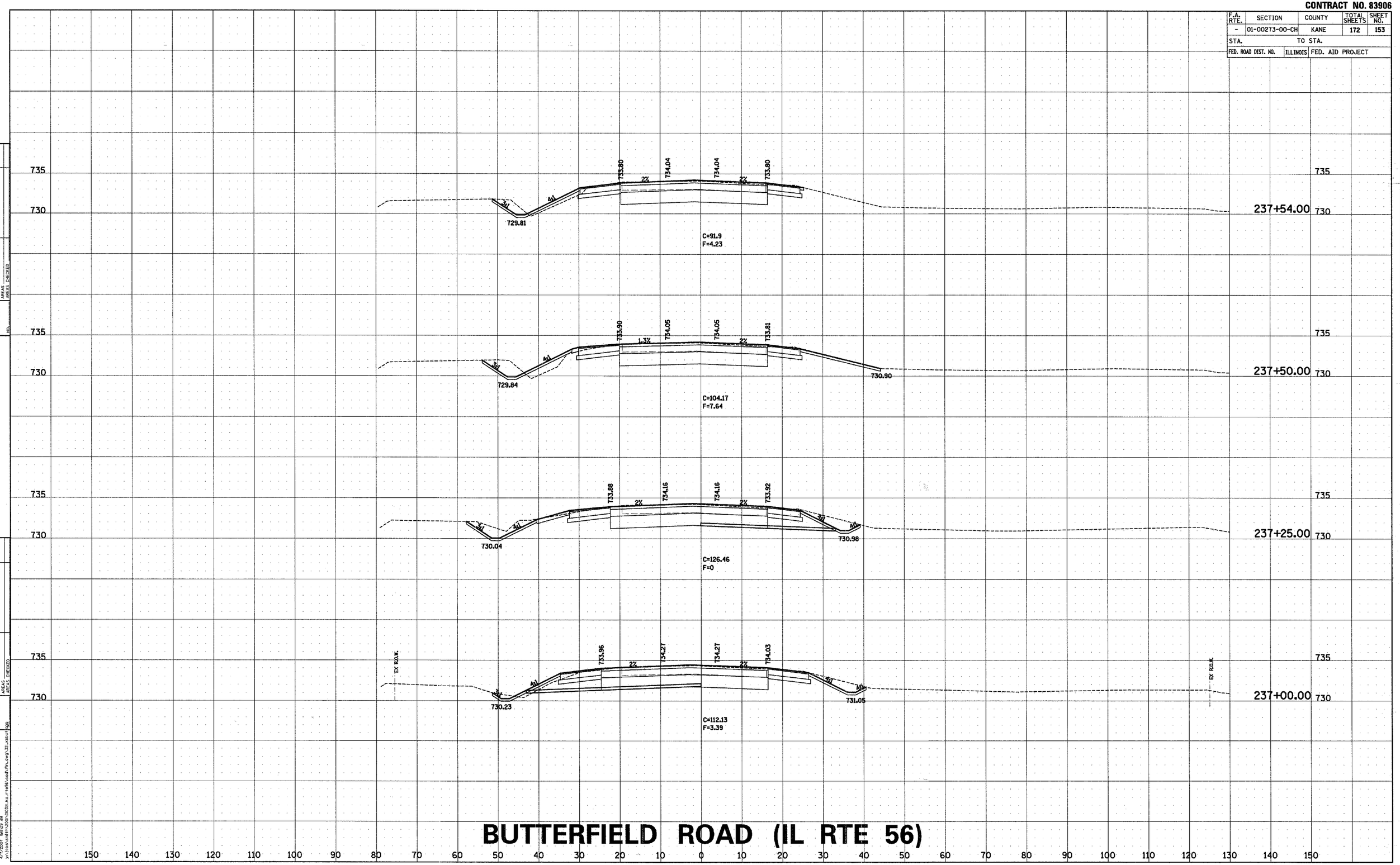
FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

COMPANY NAME: SEC, INC.
PROJECT CONTACT: TONY SIMMONS
CONTACT PHONE: 708-301-7000
4/17/2007 9:11:08 AM
y:\jobs\smith\203\06320.sec_rte56\cad\rtn_dwg\32b_v8bcf.dgn

CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	01-00273-00-CH	KANE	172	153
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



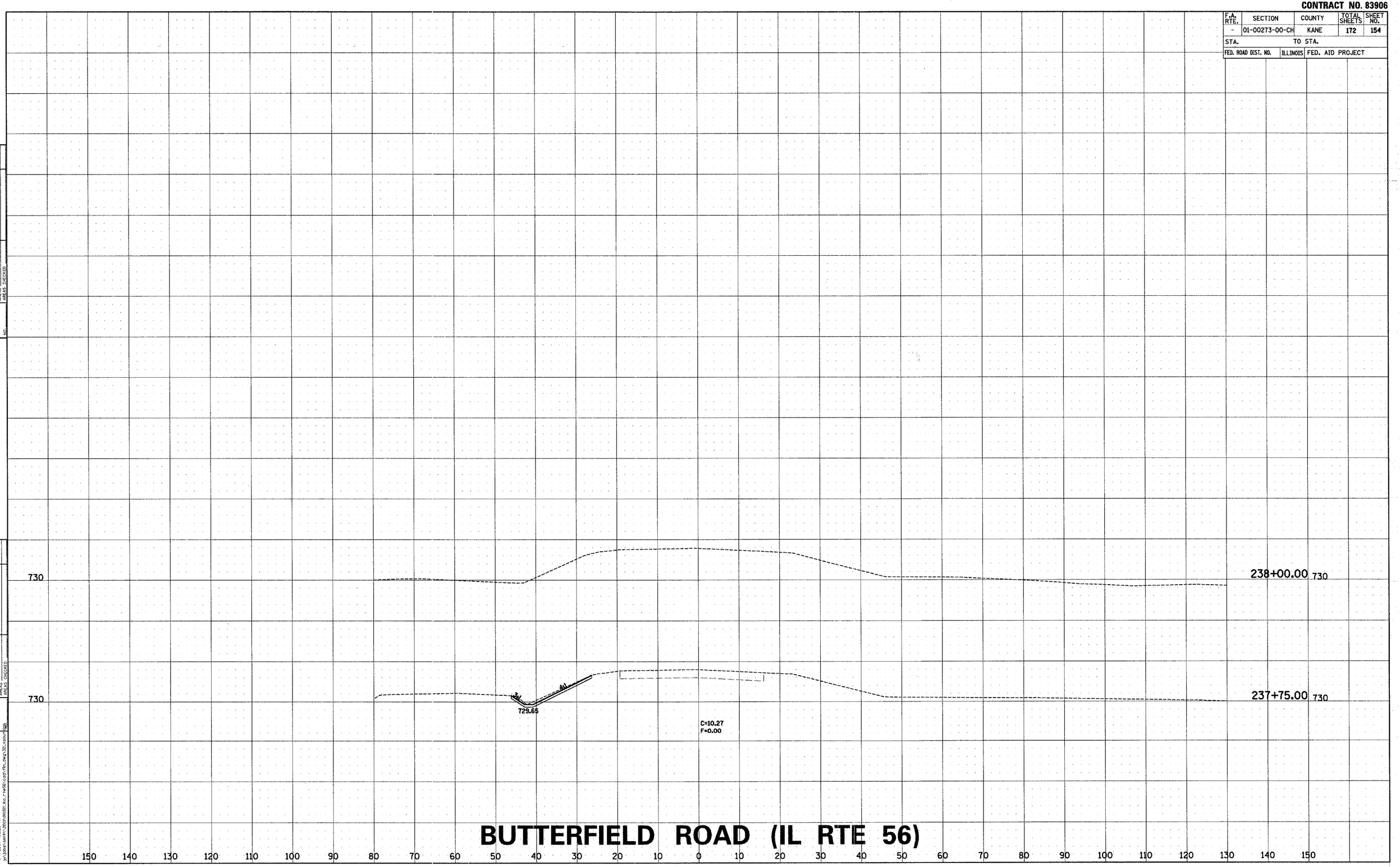
FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

COMPANY NAME: SEC, INC.
PROJECT CONTACT: TONY SIMMONS
PLOT SCALE: 1:1
4/7/2020 8:46:29 AM
y:\jobs\mitch\200\0033\ec_rte56\cad\fin_dwg\31_xsbut.dgn

CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	01-00273-00-CH	KANE	172	154
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



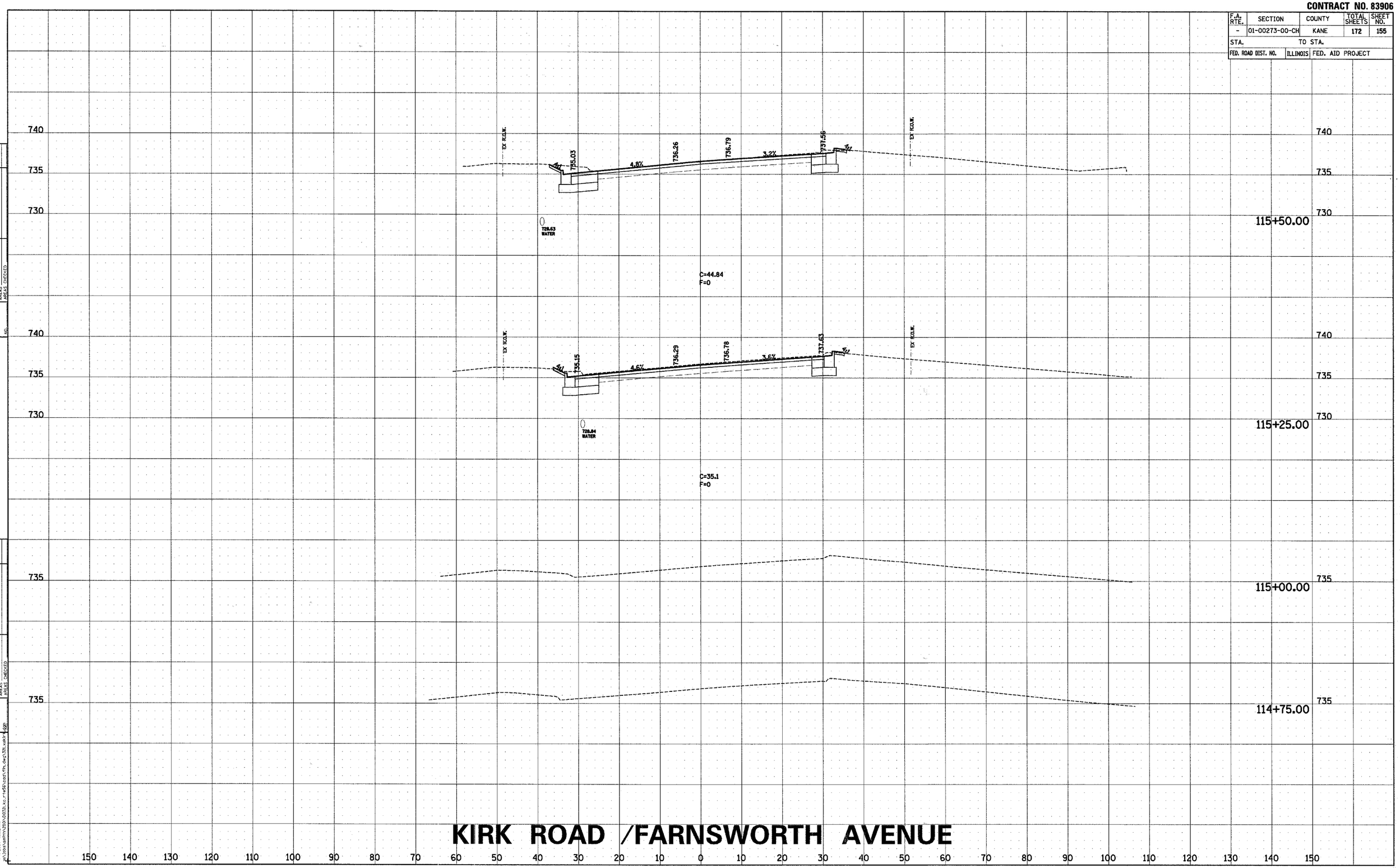
FINAL SURVEY | NOTE BOOK NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

ORIGINAL SURVEY | NOTE BOOK NO. | SURVEYED | PLOTTED | TEMPLATE | AREAS | AREAS CHECKED | BY | DATE

COMPANY NAME: SEC, INC.
PROJECT CONTACT: TONY SIMMONS
CLIENT: IDOT
4/17/2007 9:08:29 AM
y:\jobs\sellm\2006\06030_kc_rte56\cads\fin_dwg\3c_sdsurf.dgn

CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	01-00273-00-CH	KANE	172	155
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



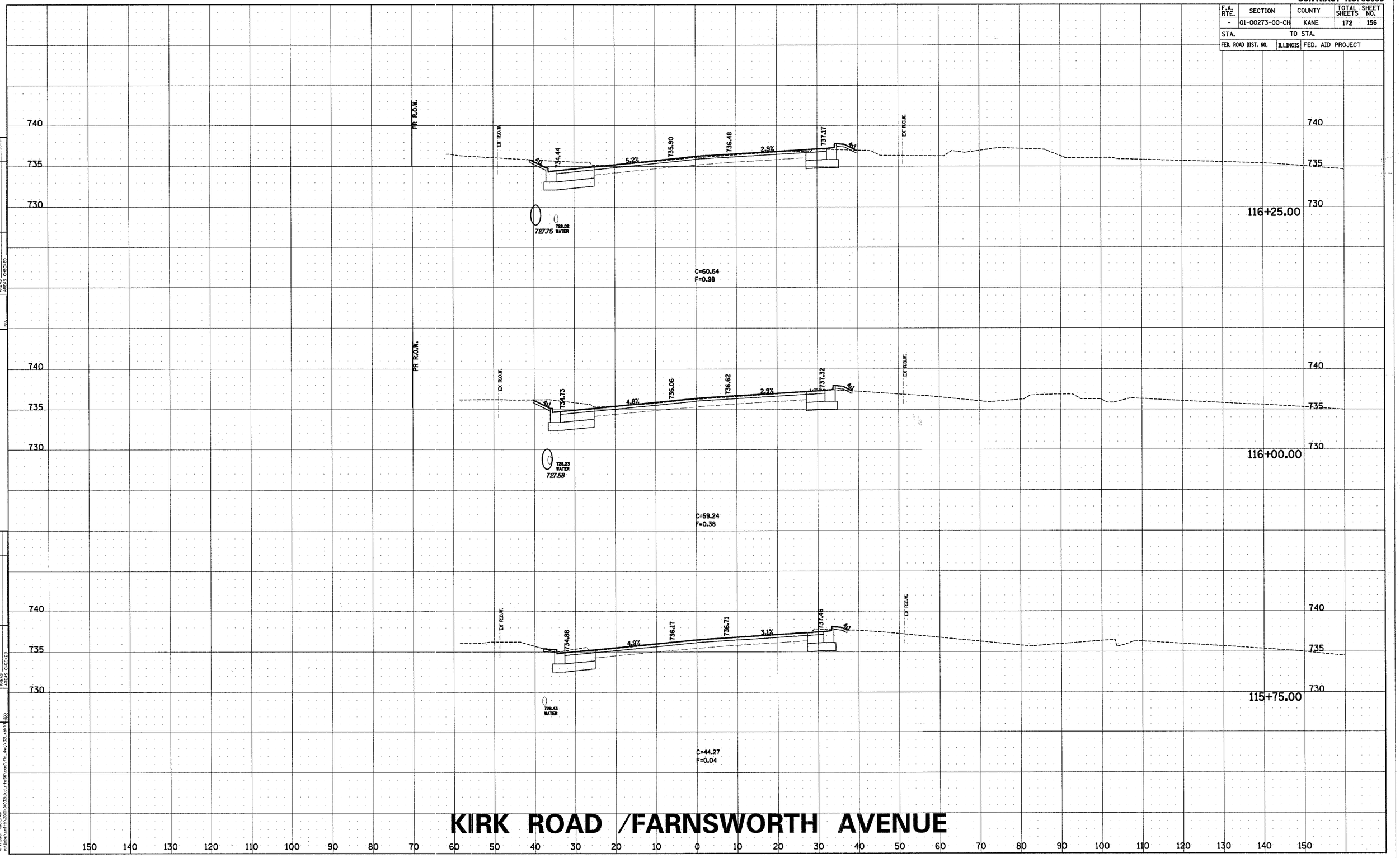
FINAL SURVEY	BY	DATE
NOTE BOOK		
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY	BY	DATE
NOTE BOOK		
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

COMPANY NAME: SGC, Inc.
PROJECT CONTACT: TONY SIMMONS
DATE: 07-17-08
CLIENT: IDOT
z:\jobs\smith\200\0030.kc-rt65\cad\fh_dwg\30_sub1.dgn

CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	01-00273-00-CH	KANE	172	156
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



KIRK ROAD /FARNSWORTH AVENUE

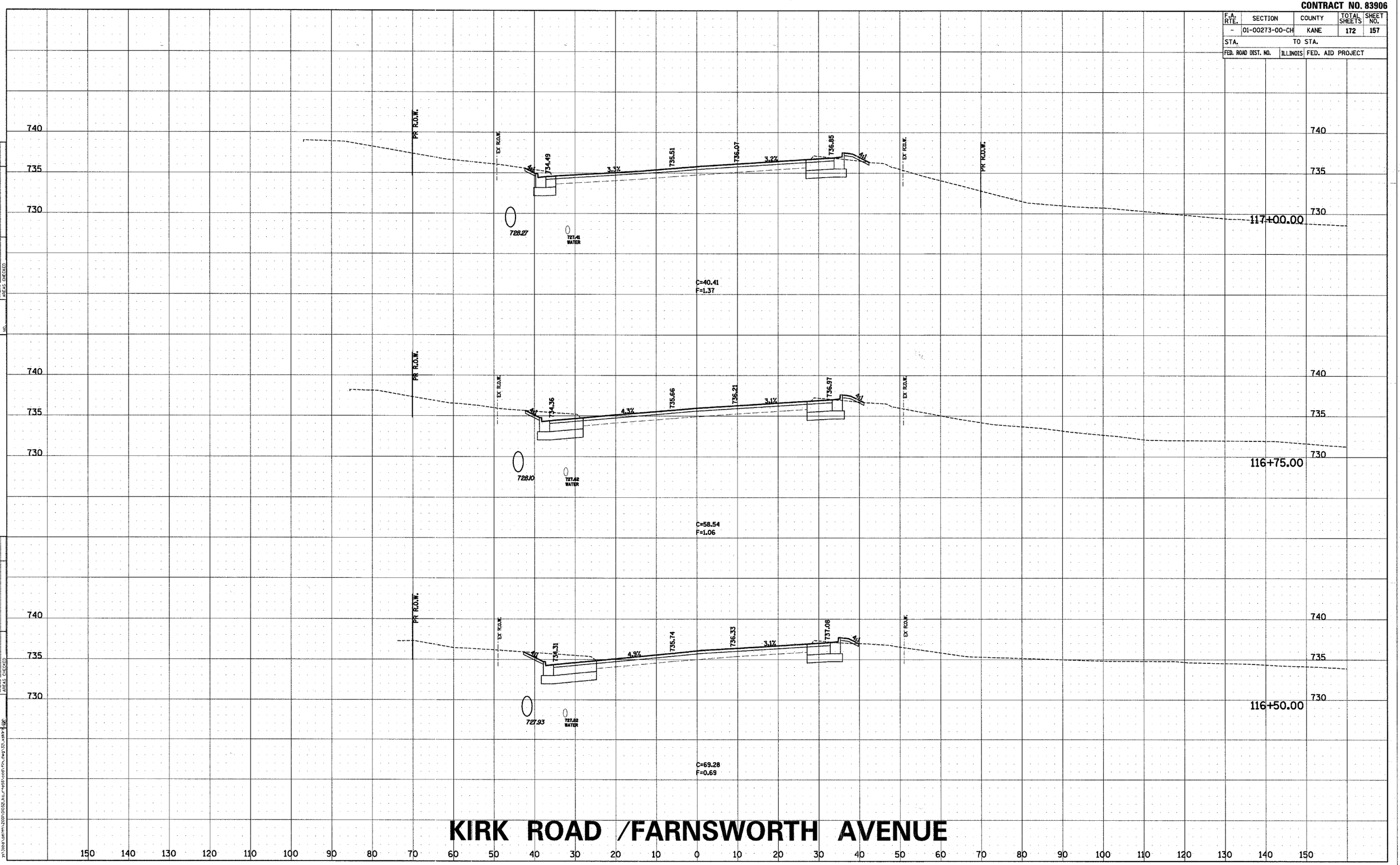
FINAL SURVEY — SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED / NOTE BOOK / NO. / BY / DATE

ORIGINAL SURVEY — SURVEYED / PLOTTED / TEMPLATE / AREAS / AREAS CHECKED / NOTE BOOK / NO. / BY / DATE

COMPANY NAME: SGC, INC.
PROJECT NO.: 04-0429 TONY SIMMONS
CLIENT: DOT
4/17/2007 9:49:31 AM
J:\Projects\2004\0429\0429_kirk_farnsworth_dwg\301_v4850.dgn

CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	01-00273-00-CH	KANE	172	157
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



KIRK ROAD /FARNSWORTH AVENUE

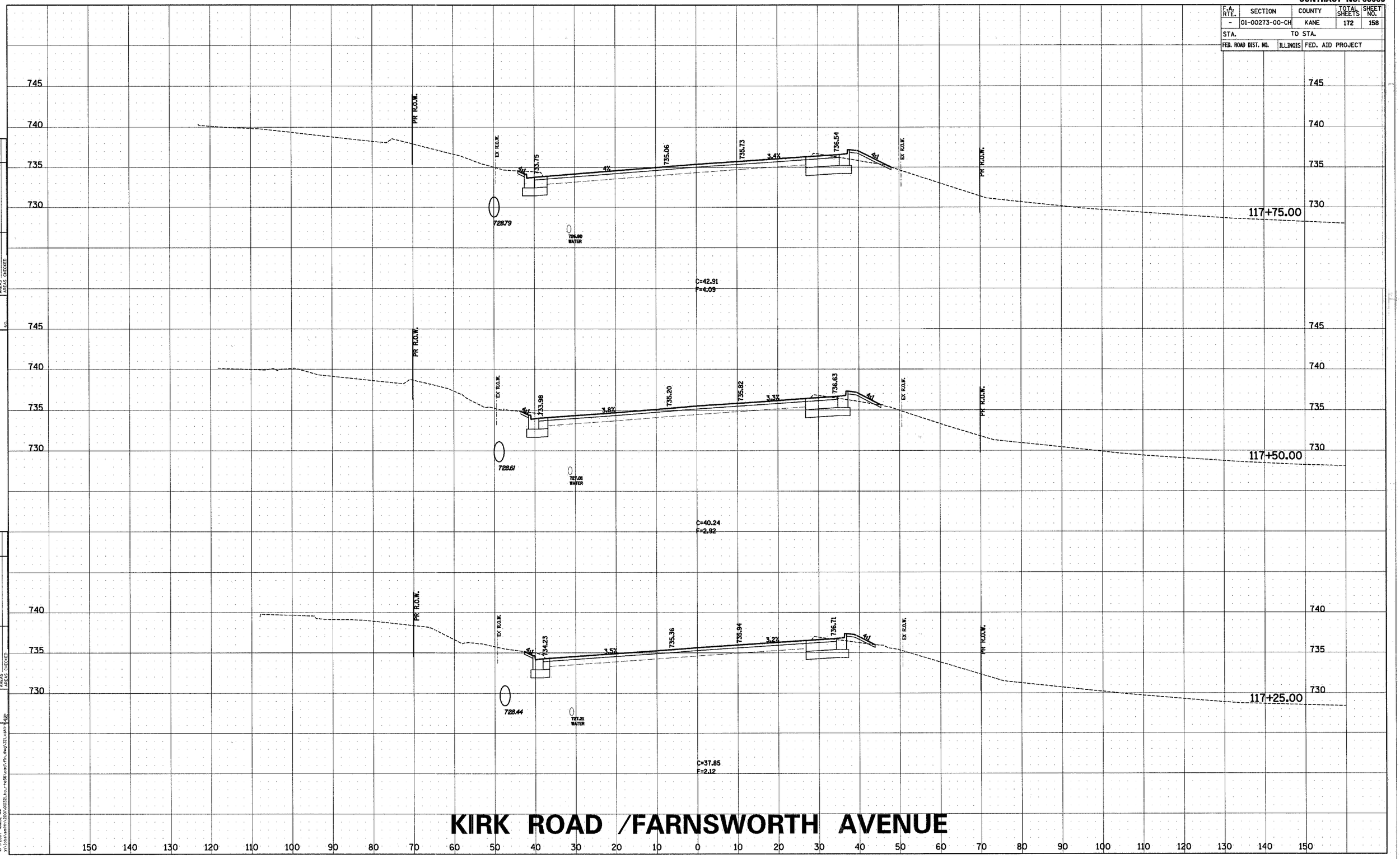
FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK		
NO.		

COMPANY NAME: SEC, INC.
PROJECT CONTACT: TONY SIMMONS
CLIENT: DOT
PLOTTED: 10/09/2002 9:32 AM
y:\jobs\um\n\200\0032_kirk_farnsworth.dwg\35_vsec\fn.dwg

CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	01-00273-00-CH	KANE	172	158
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



KIRK ROAD /FARNSWORTH AVENUE

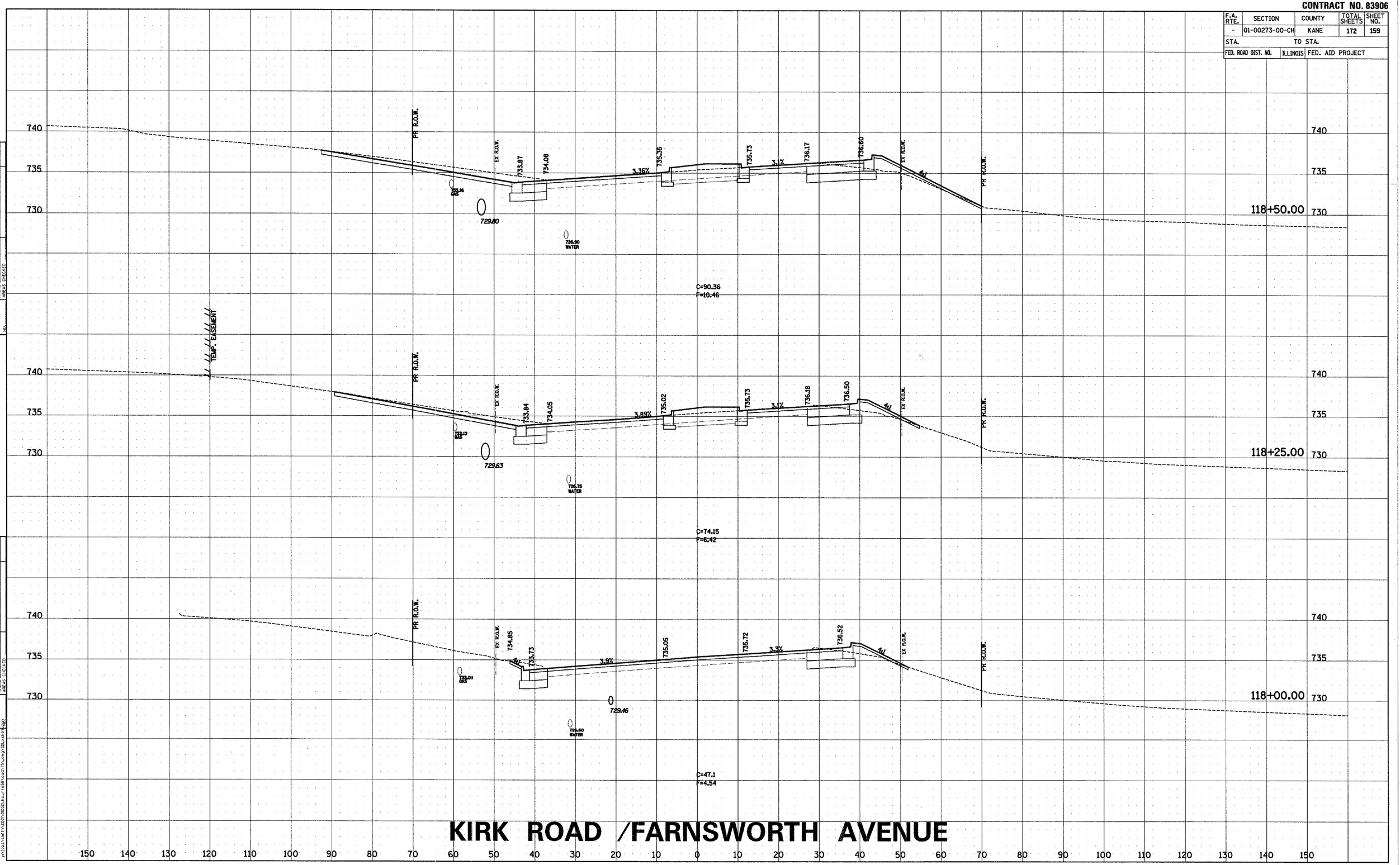
FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

COMPANY NAME: SEC, INC.
PROJECT: 2011 TONY SIMMONS
CLIENT: IDOT
4/7/2017 9:49:32 AM
J:\2011\2011\2011002\2011032.kirk-farnsworth.dwg\32L-KIRK-FARNSWORTH.dgn

CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	01-00273-00-CH	KANE	172	159
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



KIRK ROAD /FARNSWORTH AVENUE

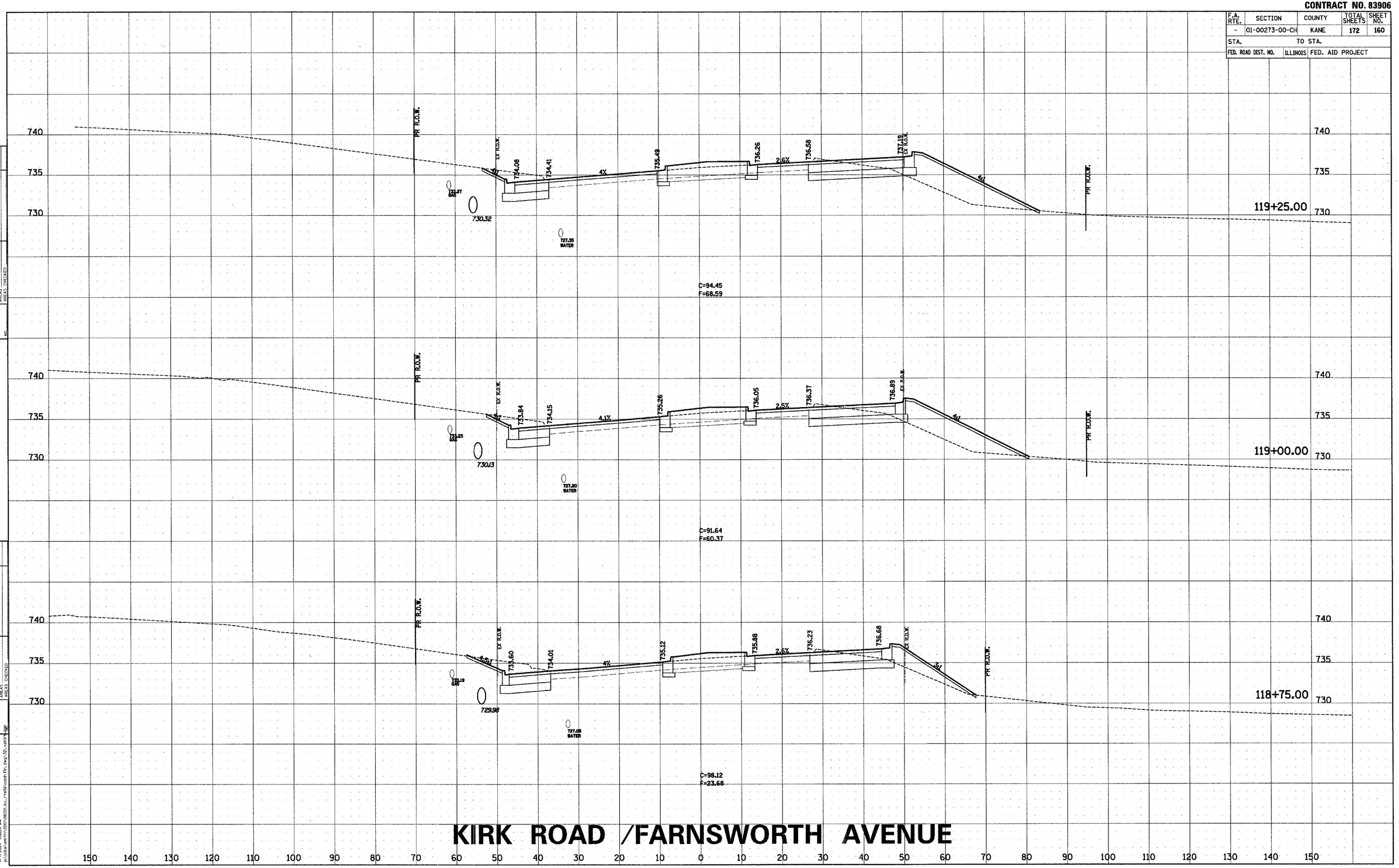
FINAL SURVEY	SURVEYED	PLOTTED	TEMPLATE	AREAS	AREAS CHECKED
NOTE BOOK					
NO.					

ORIGINAL SURVEY	SURVEYED	PLOTTED	TEMPLATE	AREAS	AREAS CHECKED
NOTE BOOK					
NO.					

COMPANY NAME: SFC, Inc.
PROJECT CONTACT: TONY SAMADWS
CLIENT: IDOT
CREATED: 6/8/2022 11:08:22 AM
p:\jobs\smith\2001\00332_kc_rt56\cad\ln_dwg\3b_vert.dgn

CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	01-00273-00-CH	KANE	172	160
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



KIRK ROAD /FARNSWORTH AVENUE

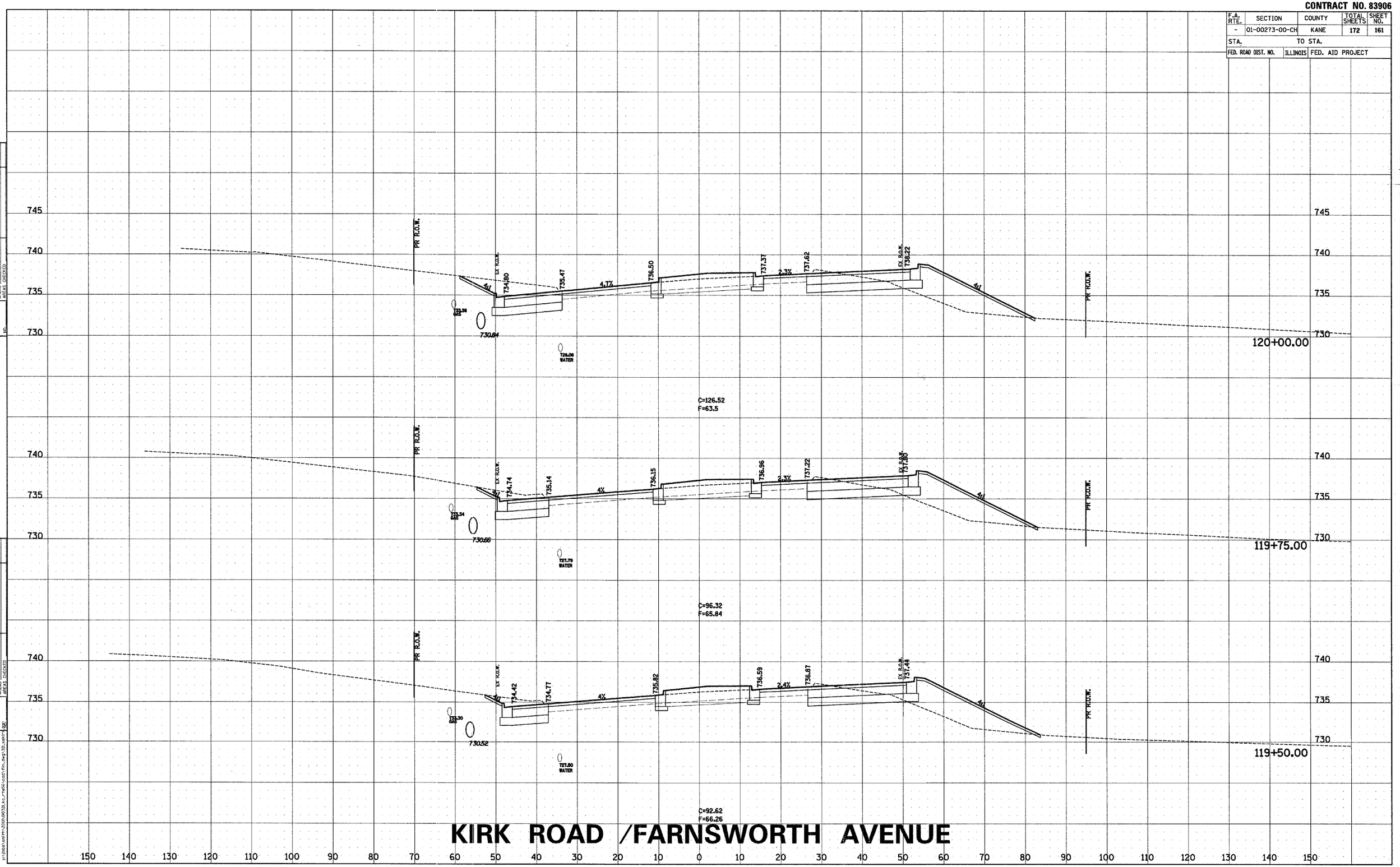
FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

COMPANY NAME: SEC, Inc.
PROJECT CONTACT: TONY SAMMONS
CLIENT: DOT
CREATED: 10/08/03 AM
y:\jobs\all\n\000\06031\kc_rte56\north fin.dwg\32L_vsch1.dwg

CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	01-00273-00-CH	KANE	172	161
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



KIRK ROAD /FARNSWORTH AVENUE

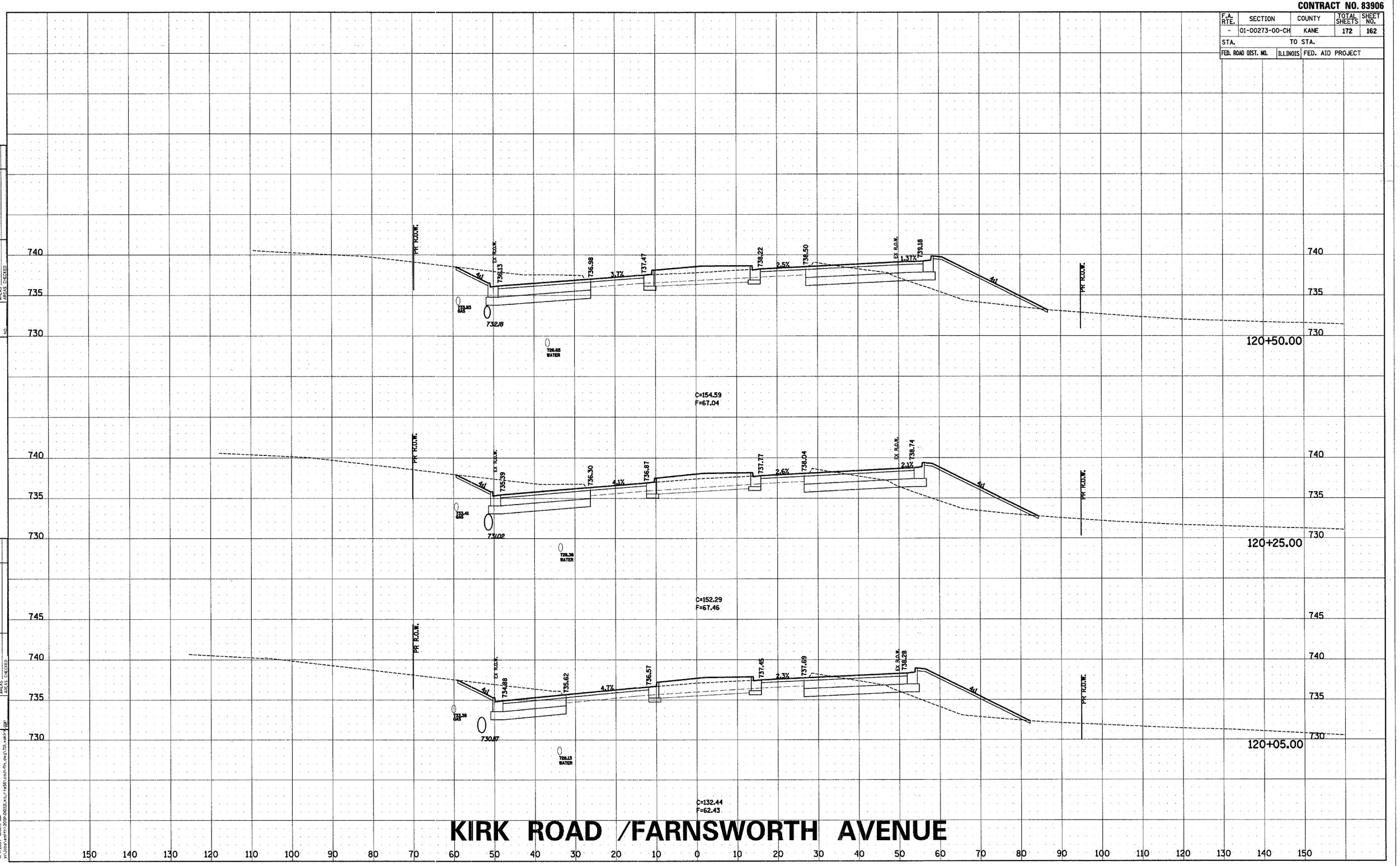
FINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
NOTE BOOK	AREAS CHECKED		
NO.			

ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
	TEMPLATE		
NOTE BOOK	AREAS CHECKED		
NO.			

COMPANY NAME: SFC INC.
PROJECT CONTACT: TONY SIMMONS
CLIENT: DOT
LAST MODIFIED: 1:03 AM
y:\jobs\smith\2000\00328.kc_rt66\ccd\fin_dwg\30_xsec.dgn

CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	01-00273-00-CH	KANE	172	162
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



KIRK ROAD /FARNSWORTH AVENUE

FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

COMPANY NAME: SEC, INC.
PROJECT MANAGER: TONY SIMMONS
CLIENT: IDOT
4/7/2007 8:18:53 AM
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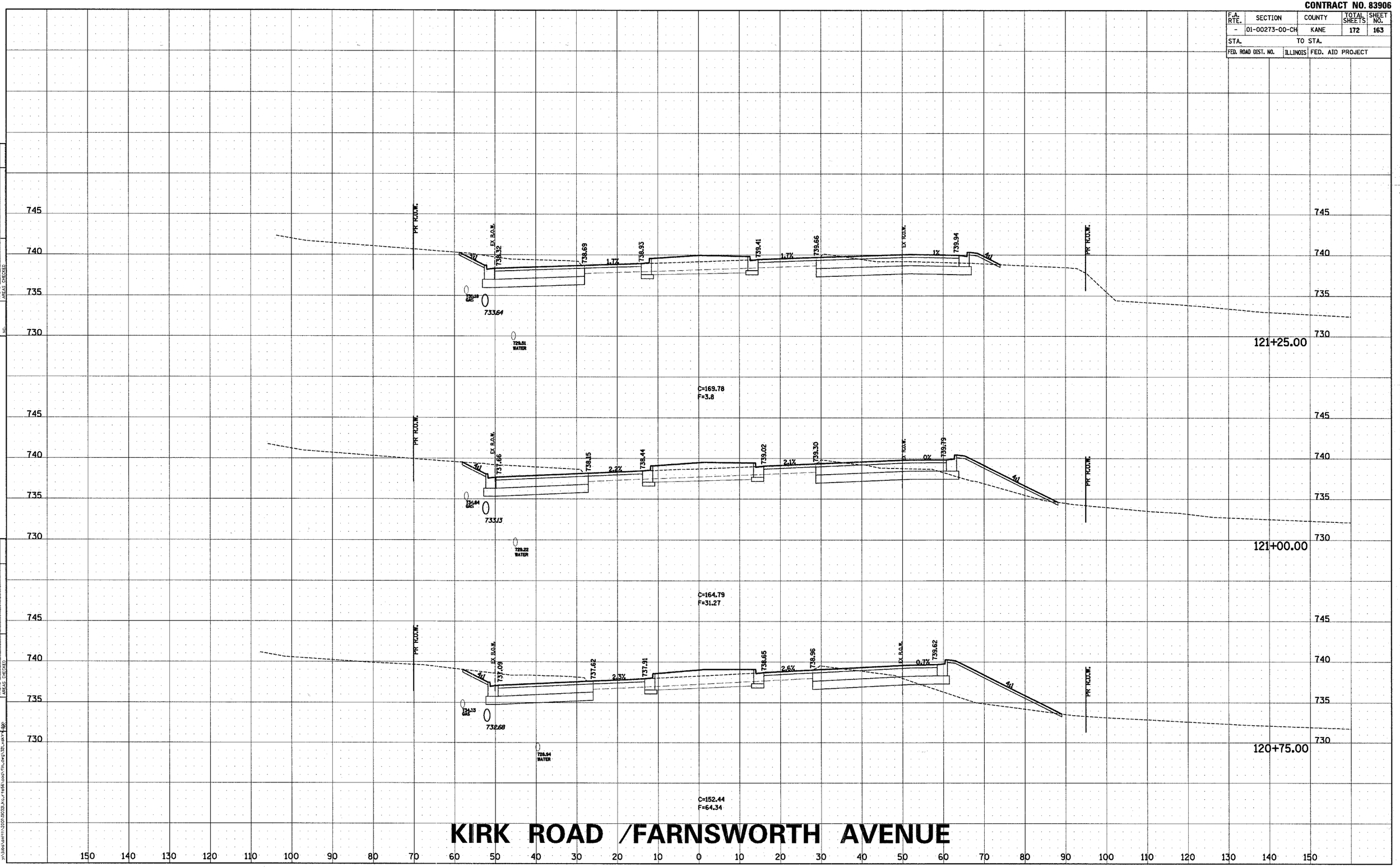
CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	01-00273-00-CH	KANE	172	163
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



KIRK ROAD /FARNSWORTH AVENUE

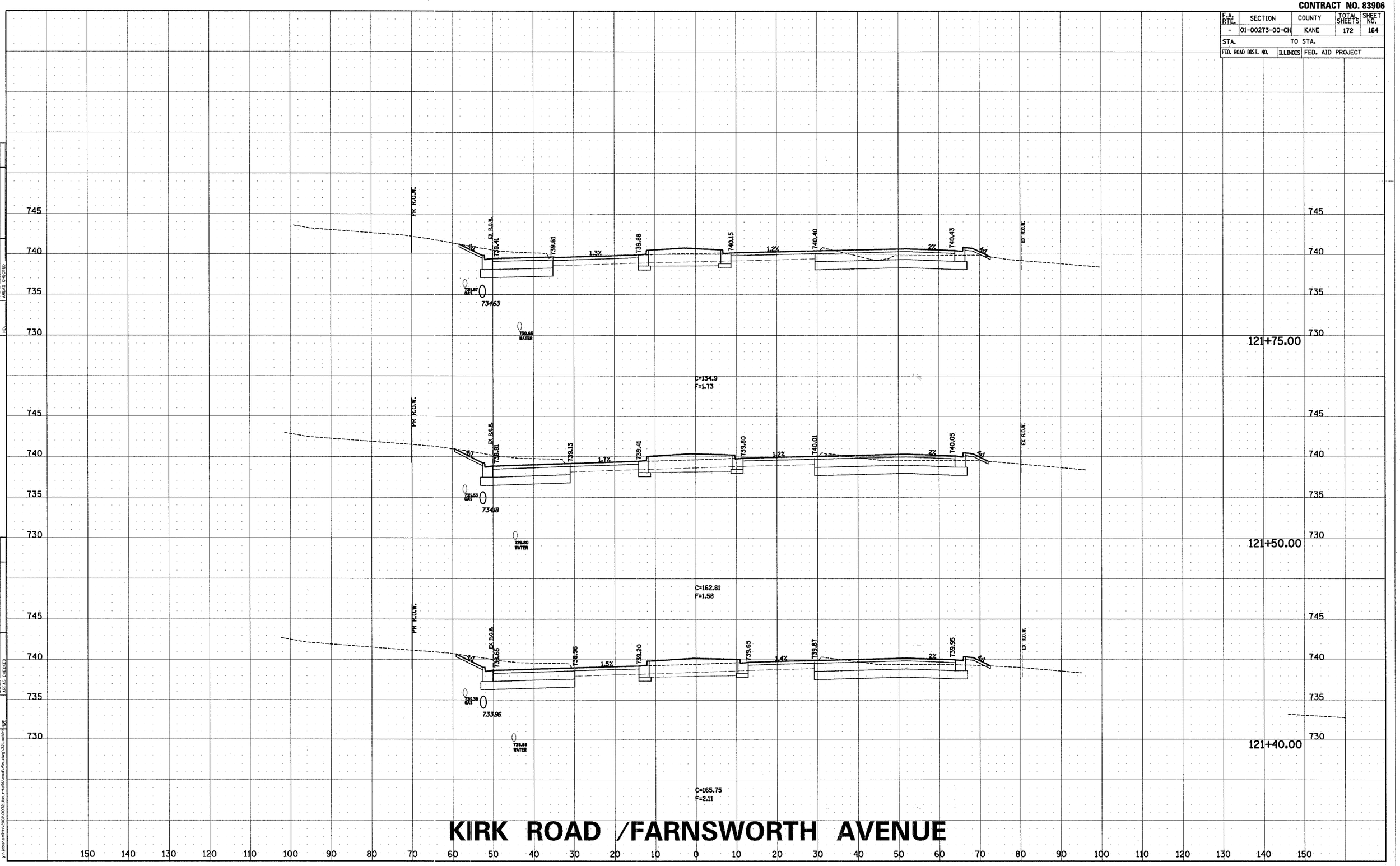
FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

COMPANY NAME: SEC, INC.
PROJECT CONTACT: TONY SIMMONS
CLIENT: IDOT
PLOT DATE: 2009-9-24 AM
V:\1006\active\17-2006\06238.kirk road\ffn_dwg\38L-KIRK ROAD.dgn

CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	01-00273-00-CH	KANE	172	164
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



KIRK ROAD /FARNSWORTH AVENUE

FINAL SURVEY	SURVEYED	PLOTTED	TEMPLATE	AREAS	AREAS CHECKED
NOTE BOOK					
NO.					

ORIGINAL SURVEY	SURVEYED	PLOTTED	TEMPLATE	AREAS	AREAS CHECKED
NOTE BOOK					
NO.					

COMPANY NAME: SFC, Inc.
PROJECT DESCRIPTION: FOX SIMMONS
CLIENT: 4007
4/17/2007 11:53:34 AM
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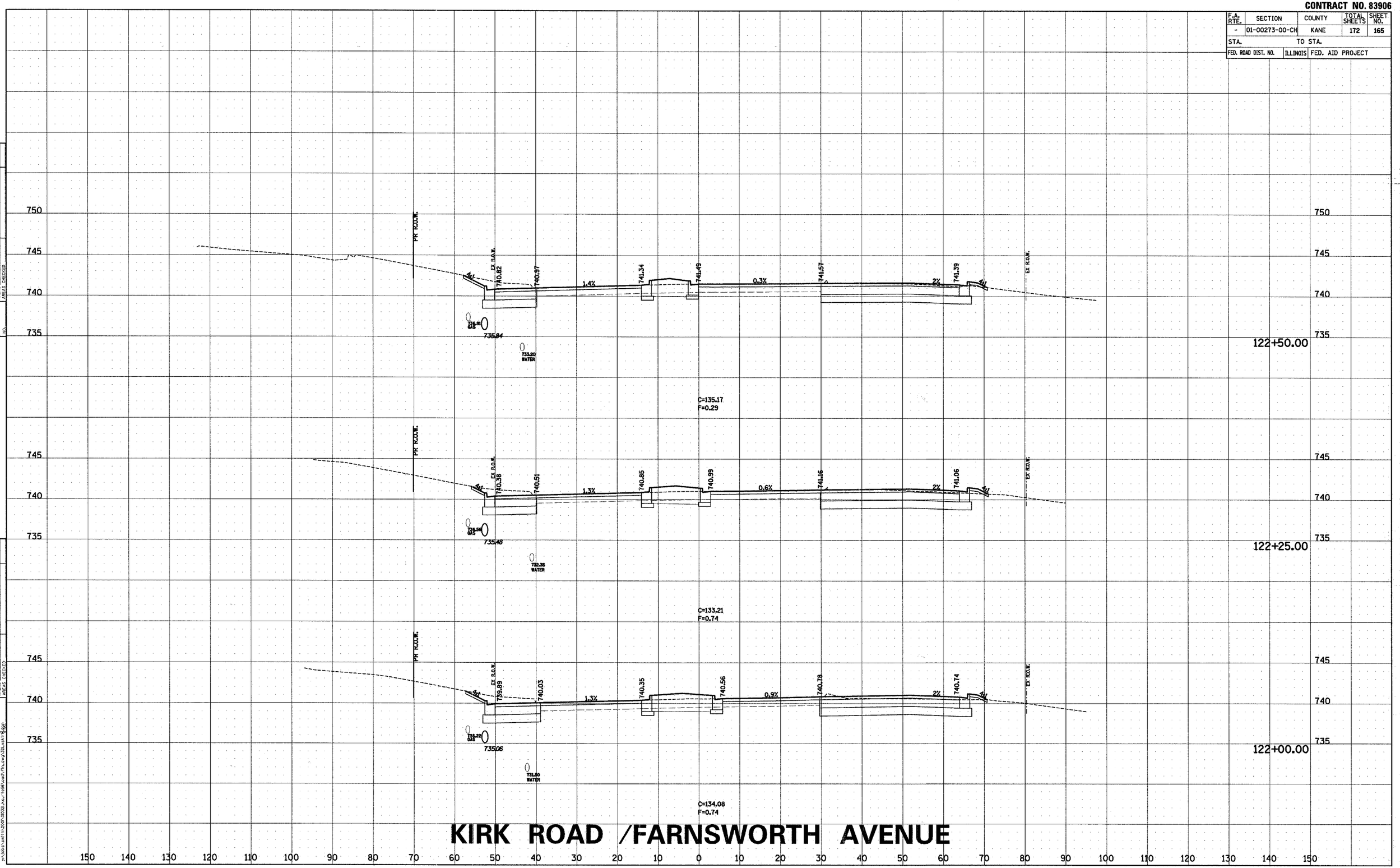
CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	01-00273-00-CH	KANE	172	165
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



KIRK ROAD /FARNSWORTH AVENUE

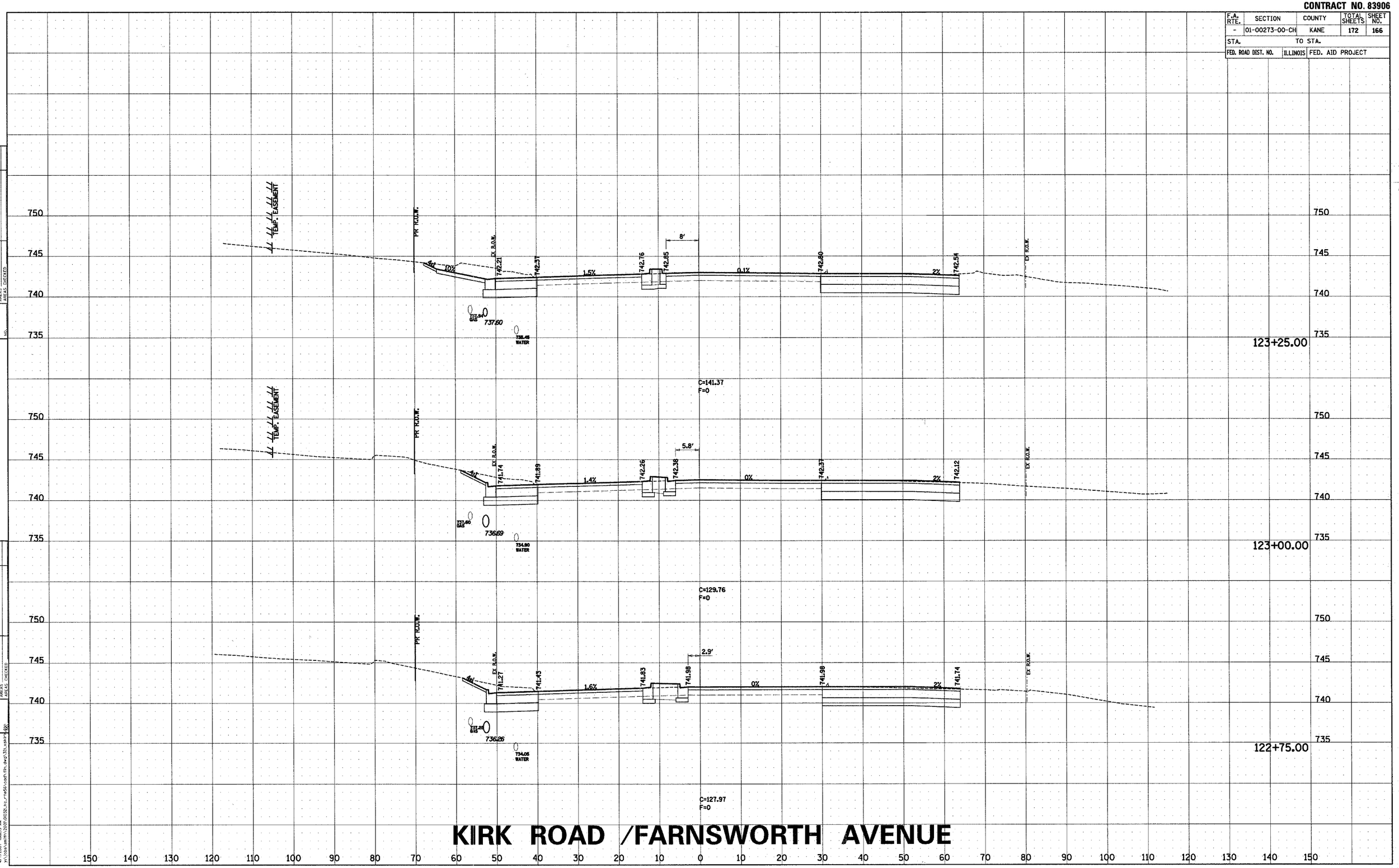
FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
NO.	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

COMPANY NAME: SEC, INC.
PROJECT CONTACT: TONY SIMMONS
CLENTS: GPI
CREATED: 02/08/06 8:08:34 AM
p:\jobs\smith\2005\0030.kcr-f158\cad\fin.dwg\3b.xsh\4.dgn

CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	01-00273-00-CH	KANE	172	166
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



KIRK ROAD /FARNSWORTH AVENUE

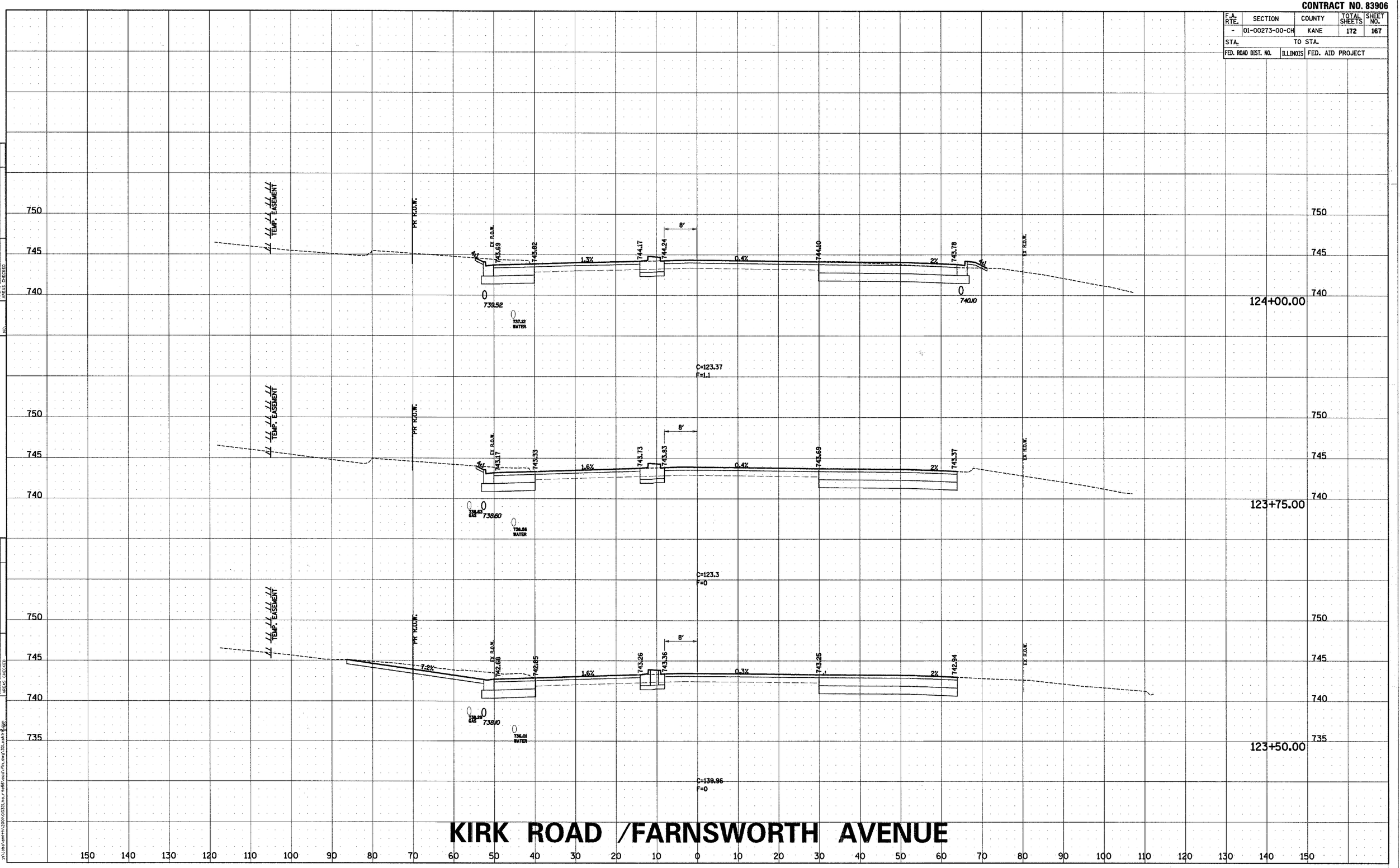
FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
	AREAS CHECKED		

COMPANY NAME: SEC. PG.
PROJECT CONTACT: TONY SIMMONS
CLIENT: DOT
ACCOUNT NUMBER:
y:\jobs\smith\2001\0032\kc_rte56\coch1fn.dwg33x.ckk1fn

CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	01-00273-00-CH	KANE	172	167
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



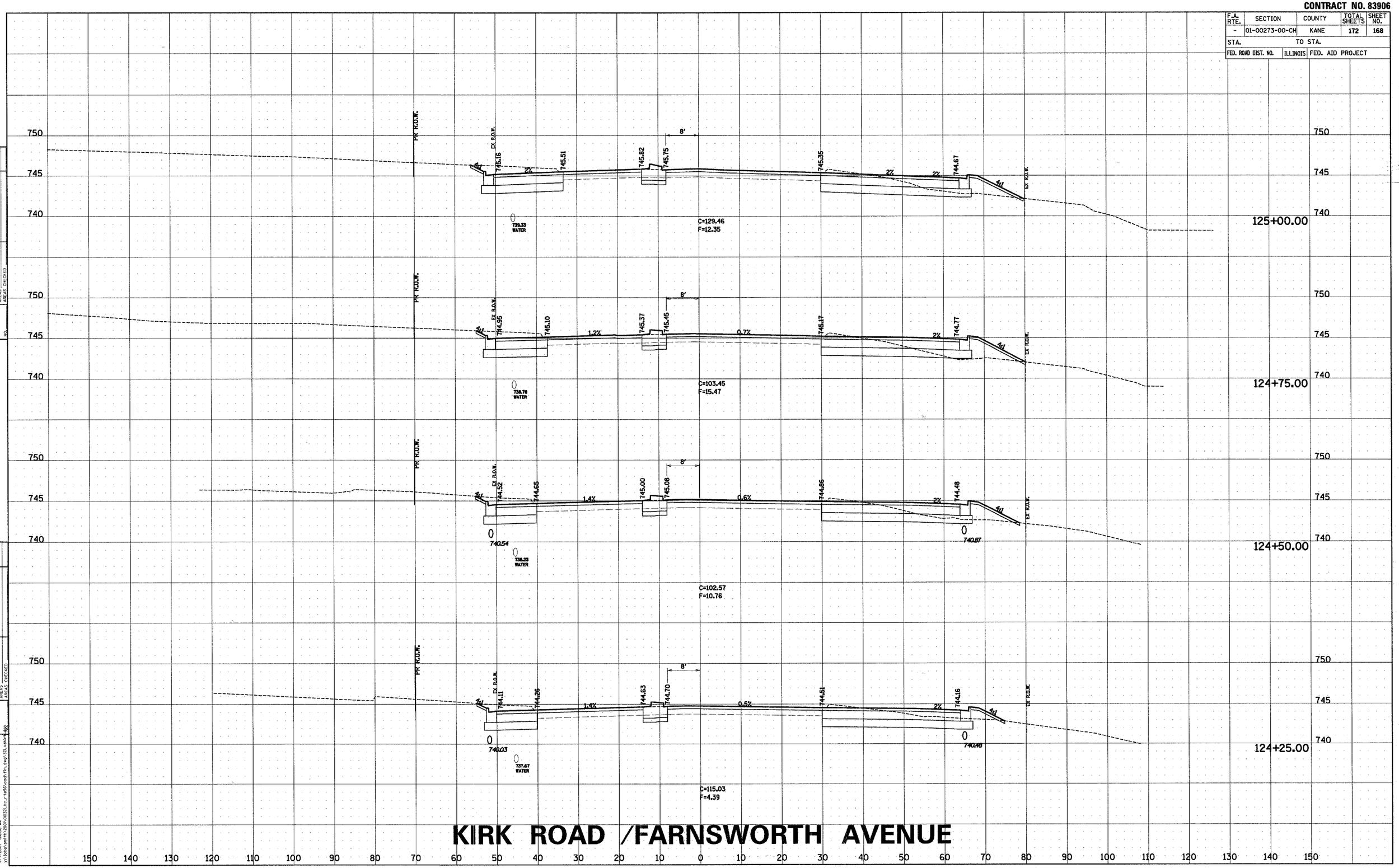
FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK		
NO.		

COMPANY NAME: SEC, Inc.
PROJECT CONTACT: TONY SIMMONS
CLIENT: IDOT
PLOT DATE: 08:05 AM
y:\jobs\pm\m1200\0020_rte_rte86\cad\fin_dwg\35_xsk1.dwg

CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	01-00273-00-CH	KANE	172	168
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



KIRK ROAD /FARNSWORTH AVENUE

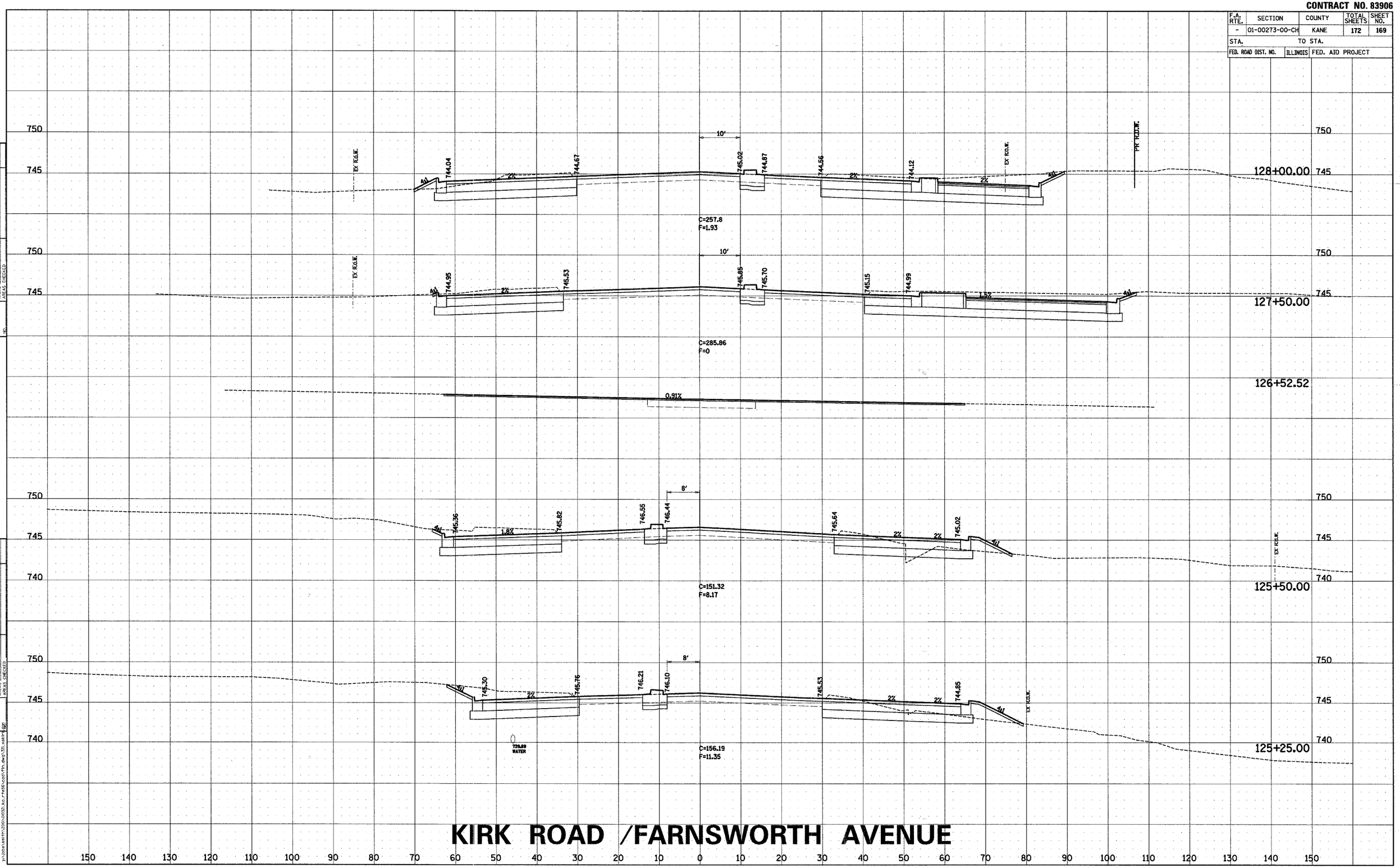
FINAL SURVEY	DATE	BY
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK		
NO.		

ORIGINAL SURVEY	DATE	BY
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK		
NO.		

COMPANY NAME: SEC Pro
PROJECT CONTACT: TONY SIMMONS
CLIENT: IDOT
CREATED: 10/29/2009 10:16:16 AM
y:\jobs\smith\2007\0033\ic_rt656\cadd\fin.dwg\33L\kirk-400.

CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	01-00273-00-CH	KANE	172	169
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



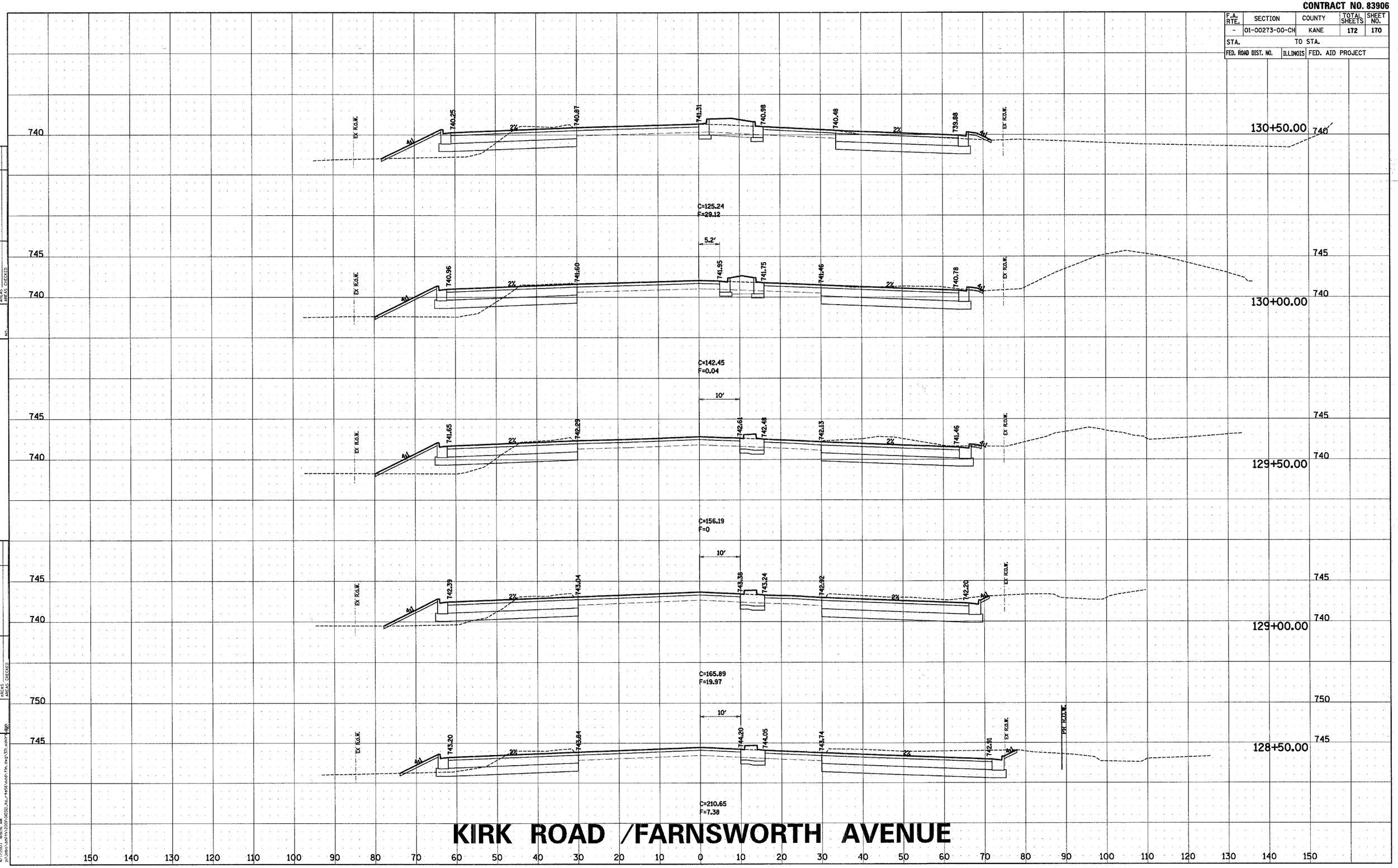
FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK		
NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK		
NO.		

COMPANY NAME: SFC Inc.
PROJECT CONTACT: TONY SAMADAS
CLIENT: IDOT
LAST MODIFIED: 10:36 AM
y:\jobs\smith\000\0030\kc_r456\ccorfin.dwg\35.xsb

CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	01-00273-00-CH	KANE	172	170
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



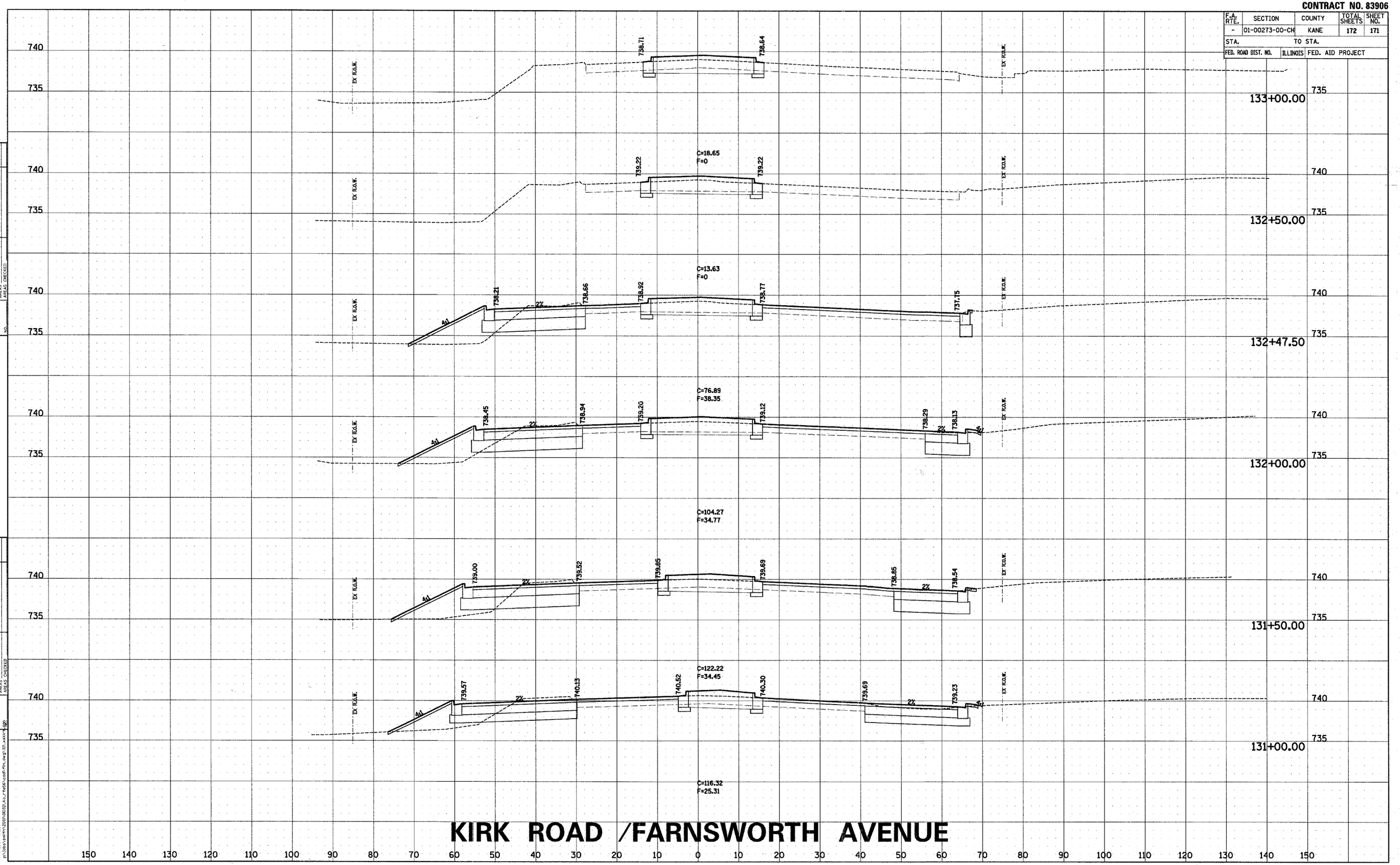
FINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

ORIGINAL SURVEY	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		
NOTE BOOK NO.		

COMPANY NAME: SEC INC.
PROJECT CONTACT: TONY SIMMONS
CLIENT: IDOT
MODIFIED: 11/18/15 AM
y:\jobs\smith\300\0232\xc_rte56\ccsh-fin.dwg\SHEET\KIRK

CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	01-00273-00-CH	KANE	172	171
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



KIRK ROAD /FARNSWORTH AVENUE

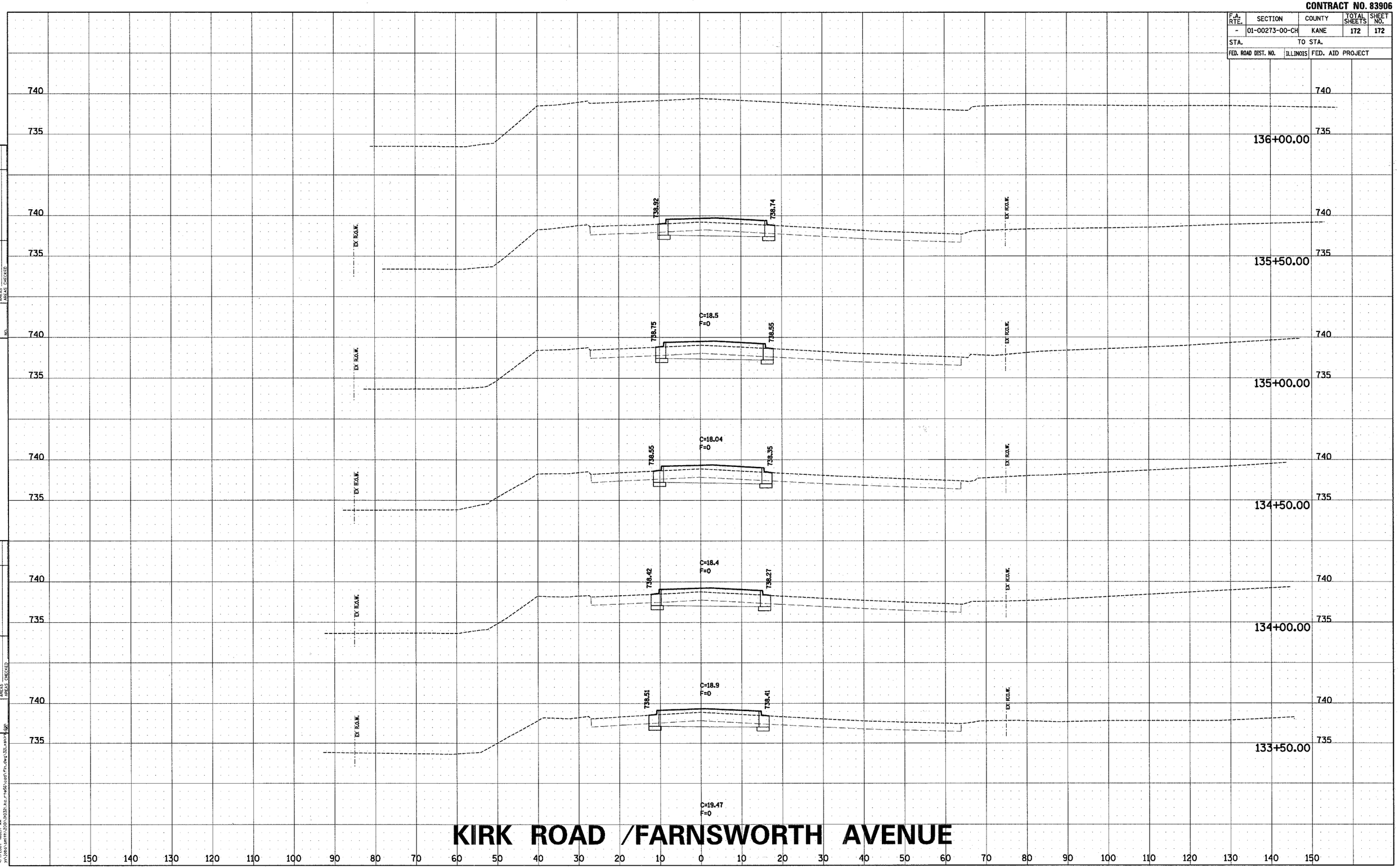
FINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
NOTE BOOK	SURVEYED		
	PLOTTED		
	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

COMPANY NAME: SEC, Inc.
PROJECT CONTACT: TONY SIMMONS
COUNTY: KANE
4/7/2009 11:06:37 AM
y:\jobs\smith\2001\0503_kc_farns\cad\fin_dwg\33_xsec.dgn

CONTRACT NO. 83906

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
-	01-00273-00-CH	KANE	172	172
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



KIRK ROAD /FARNSWORTH AVENUE

FINAL SURVEY		BY	DATE
SURVEYED			
PLOTTED			
TEMPLATE			
AREAS			
AREAS CHECKED			
NOTE BOOK			
NO.			

ORIGINAL SURVEY		BY	DATE
SURVEYED			
PLOTTED			
TEMPLATE			
AREAS			
AREAS CHECKED			
NOTE BOOK			
NO.			

COMPANY NAME: SEC, INC.
PROJECT: 00-0273-00-CH
CLIENT: DOT
4/7/2003 11:13:37 AM
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