

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAP 873 (IL ROUTE 149) AT FAU 9495 (KEN GRAY BLVD.)

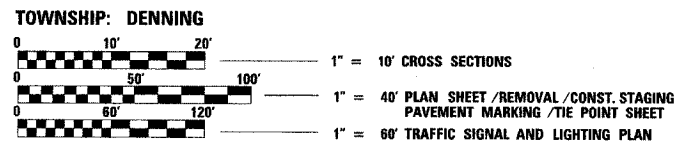
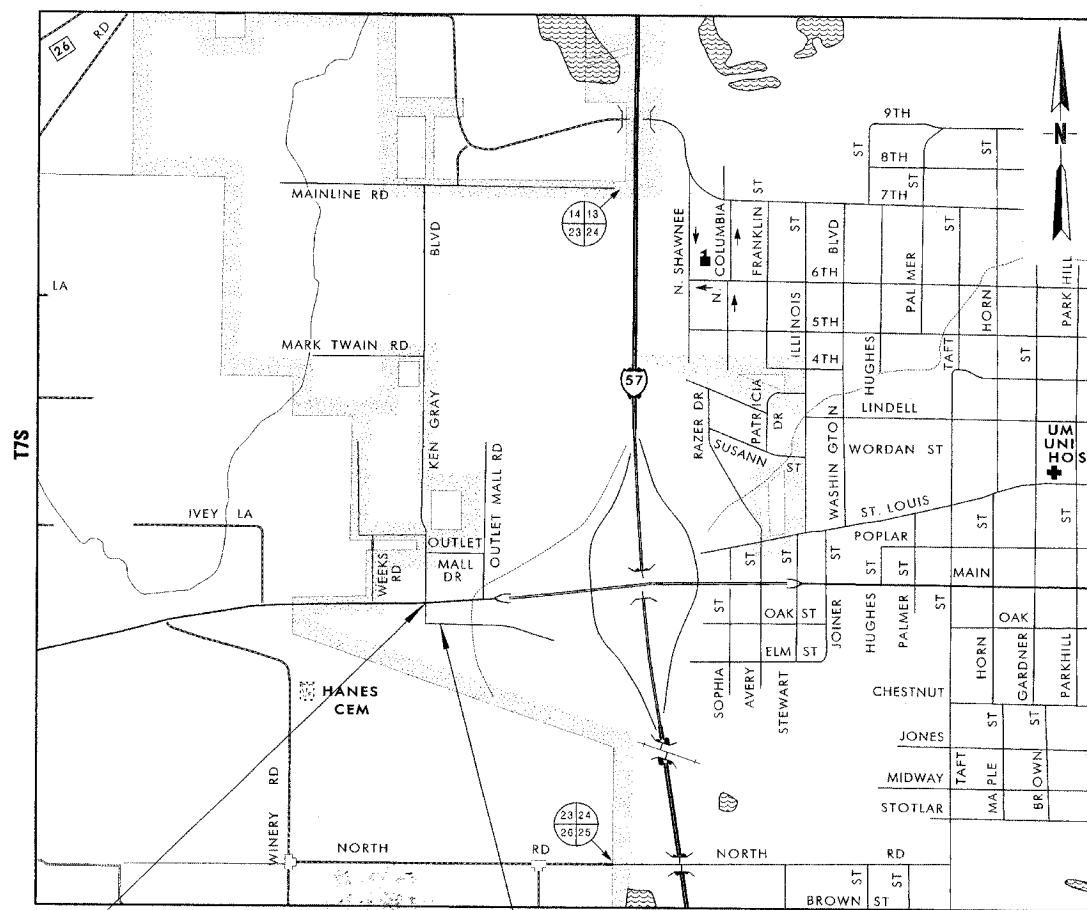
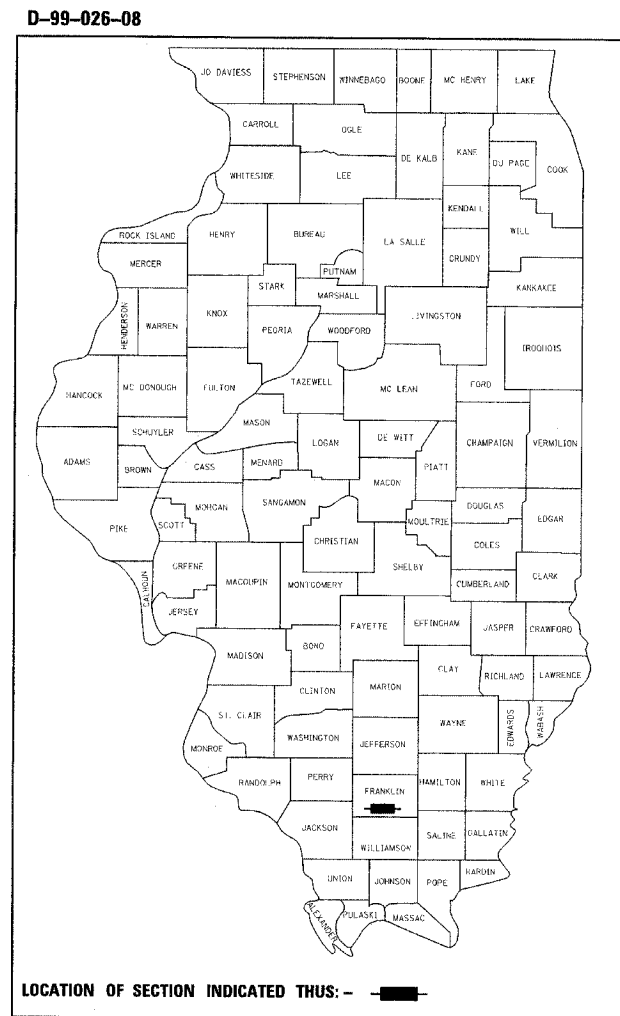
SECTION (28-5) TS-3, N-1

**RADIUS IMPROVEMENTS  
FRANKLIN COUNTY  
C-99-039-08**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
873	(28-5) TS-3, N-1	FRANKLIN	38	1
FED. ROAD DIST. NO.	ILLINOIS CONTRACT NO. 78055			

FOR INDEX OF SHEETS, SEE SHEET NO. 2

APPROACH	ADT(2007)	% TRUCKS
KEN GRAY BLVD. SOUTH OF IL 149	12,000	1.3
KEN GRAY BLVD. NORTH OF IL 149	3,700	2.0
IL 149 WEST OF KEN GRAY BLVD.	9,700	2.5
IL 149 EAST OF KEN GRAY BLVD.	6,300	1.1



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: SUSAN POE  
PROJECT MANAGER: PATRICK NAAS

PROPOSED PROJECT BEGINS  
STATION 10+26.00

PROPOSED PROJECT ENDS  
STATION 11+81.10

GROSS LENGTH OF PROJECT = 0.029 MILES  
NET LENGTH OF PROJECT = 0.029 MILES

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED *March 20 20 08*

*Mary C. Daniel*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

*May 9, 20 08*  
*Eric E. Harn*  
ENGINEER OF DESIGN AND ENVIRONMENT

*May 9, 20 08*  
*Christine M. Reed*  
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

# GENERAL NOTES

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

ALL HOT MIX ASPHALT	(2.016 TONS/CU. YD.)
ALL AGGREGATE	(2.05 TONS/CU. YD.)
BITUMINOUS MATERIALS:	
ON PAVEMENT	(0.09 GAL./SQ. YD.)
INTERMEDIATE LIFTS (FOG COAT)	(0.04 GAL./SQ. YD.)
ON AGGREGATE SURFACE	(0.32 GAL./SQ. YD.)
AGGREGATE (PRIME COAT)	(0.0015 TONS/SQ. YD.)
RIPRAP	(1.50 TONS/CU. YD.)

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

QUANTITIES SHOWN IN THE PLANS FOR PATCHING ARE ESTIMATES. THE ACTUAL AMOUNT OF PATCHING REQUIRED SHALL BE DETERMINED BY THE ENGINEER.

THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION WILL BE REMOVED OR RELOCATED AS DIRECTED BY THE ENGINEER ACCORDING TO ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS. AFTER THE CONSTRUCTION IS COMPLETED, THE CONTRACTOR WILL RE-ERECT THE SIGNS AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO COMPENSATION WILL BE ALLOWED.

THE LIMITS OF EARTH SLOPES SHOWN IN THE CROSS SECTIONS ARE APPROXIMATE. THE ACTUAL SLOPE USED SHALL BE DETERMINED BY THE MATERIAL CLASSIFICATION AS DEFINED IN ARTICLE 202.04, AND AS DIRECTED BY THE ENGINEER.

THE USE OF VIBRATORY ROLLER SHALL BE PROHIBITED ON THIS PROJECT. THE CONTRACTOR MAY HAVE TO MAKE ADJUSTMENTS TO THE ROLLING PATTERN TO OBTAIN THE REQUIRED FIELD DENSITY.

FORMS FOR COMBINATION CONCRETE CURB AND GUTTER SHALL BE OF METAL ONLY, EXCEPT THAT WOOD FORMS MAY BE USED ON SHORT RADIUS CURVES.

ADDITIONAL WIDTH OF GUTTER FLAG, AT LOCATIONS INDICATED ON THE PLANS, SHALL BE POURED MONOLITHICALLY WITH THE NORMAL GUTTER FLAG AND WILL NOT BE MEASURED OR PAID FOR SEPARATELY.

PROTECTIVE COAT SHALL BE APPLIED TO ALL GUTTER FLAGS, FACE OF CURB, AND PCC PAVEMENT AS NEEDED ACCORDING TO THE SEASONAL REQUIREMENTS OF ARTICLE 420.18.

ALL PIPE CULVERTS (R.C.C.P.) AND STORM SEWERS DESIGNATED ON THE PLANS SHALL BE "REINFORCED CONCRETE CULVERT, STORM DRAIN AND SEWER PIPE" CONFORMING TO THE REQUIREMENTS OF ARTICLE 1040.03.

TRENCH BACKFILL REQUIRED FOR STORM SEWER, SANITARY SEWER, OR WATER MAINS SHALL ONLY BE PLACED UP TO ONE FOOT BELOW THE FINAL GRADE IN AREAS HAVING A PROPOSED GRASS OR SOD SURFACE.

CONNECTING OF NEW OR EXISTING STORM SEWER TO NEW OR EXISTING INLETS OR MANHOLES SHALL BE MADE IN A MANNER WHICH RESULTS IN A NEAT AND WATERTIGHT JOINT. WHEN PLACED THROUGH THE WALL OF AN INLET OR MANHOLE, STORM SEWER PIPE SHALL BE PLACED OR CUT FLUSH WITH THE FACE OF THE WALL AND DRESSED WITH MORTAR TO PROVIDE A SMOOTH ROUNDED OR BEVELED EDGE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICES OF THE STORM SEWERS OR STRUCTURES INVOLVED.

STONE RIPRAP USED IN DITCHES SHOULD BE PLACED IMMEDIATELY UPON COMPLETION OF EARTHWORK AND GRADING IN ORDER TO PREVENT EROSION.

THE REMOVAL OF BROKEN CONCRETE IN EXISTING DITCHES AND ON THE FORESLOPES SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

THE QUANTITY OF EROSION CONTROL BLANKET SHOWN IN THE PLANS IS ONLY AN ESTIMATE. THE ACTUAL AMOUNT USED, AND LOCATIONS, SHALL BE DETERMINED BY THE ENGINEER.

ALL ELECTRIC CABLE AND CONDUIT QUANTITIES ARE MEASURED IN PLAN VIEW.

SHIELDED CABLE TO LOOP LEADS SHALL BE GROUNDED AT THE CONTROLLER TERMINAL ONLY.

WHILE SIGNAL HEADS ARE MOUNTED IN PLACE, BUT NOT YET IN OPERATION, THEY SHALL BE SECURELY COVERED IN WHITE PLASTIC.

ALL PROPOSED MAST ARMS SHALL BE LOCATED NO CLOSER THAN 6 FT FROM FACE OF CURB TO CENTER OF POLE; ALL PROPOSED TRAFFIC SIGNAL POSTS WILL BE LOCATED NO CLOSER THAN 4 FT FROM FACE OF CURB TO CENTER OF POST (UNLESS SHOWN OTHERWISE ON THE PLANS).

THE FURNISHING AND INSTALLATION OF THE 1 IN CONDUIT WITH ITS TRENCHING AND BACKFILL FROM THE LOOP SAWCUT TO THE SPLICE POINT SHALL BE INCLUDED IN THE LOOP INSTALLATION UNLESS SHOWN OTHERWISE ON THE PLANS.

THE INDUCTION LOOP WIRE AND LEAD-IN WIRE SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATION.

ALL DETECTOR LOOP CORNERS SHALL BE CORE DRILLED 2 IN MINIMUM DIAMETER EXCEPT THOSE PLACED UNDER RESURFACING. THE DETECTOR LOOP CORNERS PLACED UNDER RESURFACING SHALL BE DIAGONALLY SAWCUT.

EXISTING SURFACE DISTURBED DURING EXCAVATION FOR FOUNDATIONS AND PUSH PITS SHALL BE RESTORED TO THE LIMITS AND CONDITION SPECIFIED BY THE ENGINEER OR AS SHOWN ON THE PLANS, UNLESS NOTED OTHERWISE ON THE PLANS THE REMOVAL AND RESTORATION SHALL BE INCLUDED IN THE CONTRACT.

SAWED SLOTS FOR TWISTED PAIR ELECTRIC CABLES SHALL BE LARGER THAN SINGLE CONDUCTOR LOOP SLOTS.

THE TRAFFIC OPERATIONS ENGINEER SHALL BE NOTIFIED PRIOR TO CONSTRUCTION OF MAST ARM FOUNDATIONS, HANDHOLES, GULFBOX JUNCTIONS, AND DETECTOR LOOPS AND SHALL APPROVE THE LOCATIONS OF EACH AND MAY ADJUST TO FIT FIELD CONDITIONS IF NECESSARY.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF TRAFFIC OPERATIONS 72 HOURS PRIOR TO THE SHUT-DOWN OR CUTTING OF EXISTING DETECTOR LOOPS.

PRIOR TO PLACEMENT OF THE FINAL PAVEMENT MARKINGS THE RESIDENT ENGINEER SHOULD CONTACT THE BUREAU OF OPERATIONS AND ARRANGE FOR INSPECTION AND APPROVAL OF THE PAVEMENT MARKING LAYOUT.

UTILITIES ARE SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION AND THEIR ACTUAL LOCATIONS ARE NOT GUARANTEED TO BE AS SHOWN IN THE PLANS.

THERE ARE NO AVAILABLE WASTE SITES ON THE EXISTING RIGHT OF WAY WITHIN THE PROJECT LIMITS.

COMMITMENTS: NONE

SHEET#	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES, INDEX OF SHEETS, LIST OF STANDARDS
3-5	SUMMARY OF QUANTITIES
6	TYPICAL SECTIONS, BITUMINOUS MIXTURE REQUIREMENTS
7-8	SCHEDULES
9	REMOVAL SHEET
10	PLAN-PROFILE SHEET
11	DRAINAGE-PROFILE SHEET
12	GEOMETRICS SHEET
13-16	CONSTRUCTION STAGING
17	PAVEMENT MARKING DETAIL SHEET
18	TRAFFIC SIGNAL AND LIGHTING PLAN
19	TRAFFIC SIGNAL CABLE DIAGRAM AND WIRING DIAGRAM FOR HIGHWAY LIGHTING
20	TIE POINT SHEET
21	DETAILS: INLET SPECIAL, TYPE 3, 5&6 FOOT; CONCRETE COLLAR; CAST IRON FRAME, TYPE 1 & TYPE 2 WITH TYPE 1 CLOSED LID
22	DETAILS: SEEDING AND MULCHING, URBAN; PHASE DESIGNATION DIAGRAM; SERVICE INSTALLATION DETAILS
23-26	CROSS SECTIONS: KEN GRAY BLVD.
27-30	CROSS SECTIONS: SOUTHWEST QUADRANT
31-38	CROSS SECTIONS: SOUTHEAST QUADRANT

## STANDARDS INDEX

000001-05	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-01	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
420001-07	PAVEMENT JOINTS
420101-04	24' JOINTED PCC PAVEMENT
420701-02	PAVEMENT FABRIC
442101-07	CLASS B PATCHES
482006-03	HMA SHOULDER ADJACENT TO RIGID PAVEMENT
542301-01	PRECAST REINFORCED CONCRETE FLARED END SECTION
606001-03	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701001-01	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-02	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701201-02	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701701-05	URBAN LANE CLOSURE, MULTILANE INTERSECTION
720016-01	MAST ARM MOUNTED STREET NAME SIGNS
780001-01	TYPICAL PAVEMENT MARKINGS
814001-01	HANDHOLES
857001	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
877011-03	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 16' THROUGH 55'
878001-06	CONCRETE FOUNDATION DETAILS
886001	DETECTOR LOOP INSTALLATIONS
886006	TYPICAL LAYOUTS FOR DETECTION LOOPS
701101-01	
701106-01	
701901	

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ASSISTANT REGIONAL ENGINEER

Approved By: *Mary L. Lammie*  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 20 2008  
DATE

FILE NAME =	USER NAME = nassdp	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL NOTES / INDEX OF SHEETS / STANDARDS INDEX</b>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
c:\pre\gca\view\78055\978055.sht.msc.dgn		DRAWN -	REVISED -			873	(28-5) TS-3,N-1	FRANKLIN	38	2	
		CHECKED -	REVISED -			CONTRACT NO. 78055					
		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT					
PLOT SCALE = 50.0000' / IN.		PLOT DATE = 3/18/2008		SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.		

# SUMMARY OF QUANTITIES

CODE NO.	ITEM	CONSTRUCTION TYPE CODE		J000	Y031-1F
		UNIT	URBAN TOTAL QUANTITIES	ROADWAY 100% STATE	TRAFFIC SIGNALS 100% STATE
* X0300737	RADIO TRANSCEIVER	EACH	1		1
X7030010	TEMPORARY PAVEMENT MARKING TAPE, 6 INCH (BLACK)	FOOT	1187	1187	
* X8950090	RELOCATE EXISTING LIGHTING CONTROLLER	EACH	1		1
Z0017100	DOWEL BARS	EACH	84	84	
20101400	NITROGEN FERTILIZER NUTRIENT	POUND	40	40	
20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	30	30	
20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	30	30	
20200100	EARTH EXCAVATION	CU YD	126	126	
20400800	FURNISHED EXCAVATION	CU YD	328	328	
20800150	TRENCH BACKFILL	CU YD	33	33	
25000115	SEEDING, CLASS 1B	ACRE	0.25	0.25	
25000350	SEEDING, CLASS 7	ACRE	0.25	0.25	
25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.5	0.5	
25100115	MULCH, METHOD 2	ACRE	0.5	0.5	
25100630	EROSION CONTROL BLANKET	SQ YD	516	516	
28000500	INLET AND PIPE PROTECTION	EACH	1	1	
28100107	STONE RIP RAP, CLASS A4	SQ YD	19	19	
28200200	FILTER FABRIC	SQ YD	19	19	
31100300	SUB-BASE GRANULAR MATERIAL, TYPE A 4"	SQ YD	1416	1416	
40600990	TEMPORARY RAMP	SQ YD	52	52	
42000501	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	SQ YD	1267	1267	
42001200	PAVEMENT FABRIC	SQ YD	26	26	
42001300	PROTECTIVE COAT	SQ YD	1359	1359	
44000100	PAVEMENT REMOVAL	SQ YD	953	953	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	275	275	
44200970	CLASS B PATCHES, TYPE II, 10 INCH	SQ YD	8	8	
44200976	CLASS B PATCHES, TYPE IV, 10 INCH	SQ YD	26	26	
44213200	SAW CUTS	FOOT	178	178	
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	221	221	
542A0259	PIPE CULVERTS, CLASS A, TYPE 1 54"	FOOT	90	90	
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	118	118	
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	1	1	
54213699	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 54"	EACH	2	2	
54248510	CONCRETE COLLAR	CU YD	1.42	1.42	
60243500	INLETS, SPECIAL, TYPE 3, 6'	EACH	2	2	
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	330	330	
67000400	ENGINEERS FIELD OFFICE, TYPE A	CAL MO	4	4	
67100100	MOBILIZATION	L SUM	1	1	

## SUMMARY OF QUANTITIES (CONTINUED)

CODE NO.	ITEM	CONSTRUCTION TYPE CODE		J000	Y031-IF
		UNIT	URBAN TOTAL QUANTITIES	ROADWAY 100% STATE	TRAFFIC SIGNALS 100% STATE
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	0.75	0.25
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	15	15	
70106800	CHANGEABLE MESSAGE SIGN	CAL M0	5	5	
70300210	TEMPORARY PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	70.6	70.6	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	1039	1039	
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	347	347	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	65	65	
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	1983	1983	
72400710	RELOCATE SIGN PANEL - TYPE 1	SQ FT	12		12
78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SQ FT	70.6	70.6	
78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	1039	1039	
78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	347	347	
78008270	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	65	65	
78300105	PAVEMENT MARKING REMOVAL	FOOT	171	171	
80300100	LOCATING UNDERGROUND CABLE	FOOT	25		25
80500105	SERVICE INSTALLATION, TYPE A (MODIFIED)	EACH	1		1
81012500	CONDUIT IN TRENCH, 1 1/2" DIA., PVC	FOOT	378		378
81012700	CONDUIT IN TRENCH, 2 1/2" DIA., PVC	FOOT	77		77
81012900	CONDUIT IN TRENCH, 3 1/2" DIA., PVC	FOOT	20		20
81021560	CONDUIT, AUGERED 2 1/2" DIA., PVC	FOOT	63		63
81021580	CONDUIT, AUGERED 3 1/2" DIA., PVC	FOOT	63		63
81400100	HANDHOLE	EACH	2		2
81500200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	475		475
81700315	ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE RHW) 3-1/C NO. 10	FOOT	456		456
82103900	LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, 250 WATT	EACH	4		4
85700200	FULL-ACTUATED CONTROLLER AND TYPE IV CABINET	EACH	1		1
86600010	GULFBOX JUNCTION	EACH	7		7
87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	86		86
87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1030		1030
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2058		2058
87702930	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 40 FT.	EACH	1		1
87703000	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 55 FT.	EACH	1		1
87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	28		28

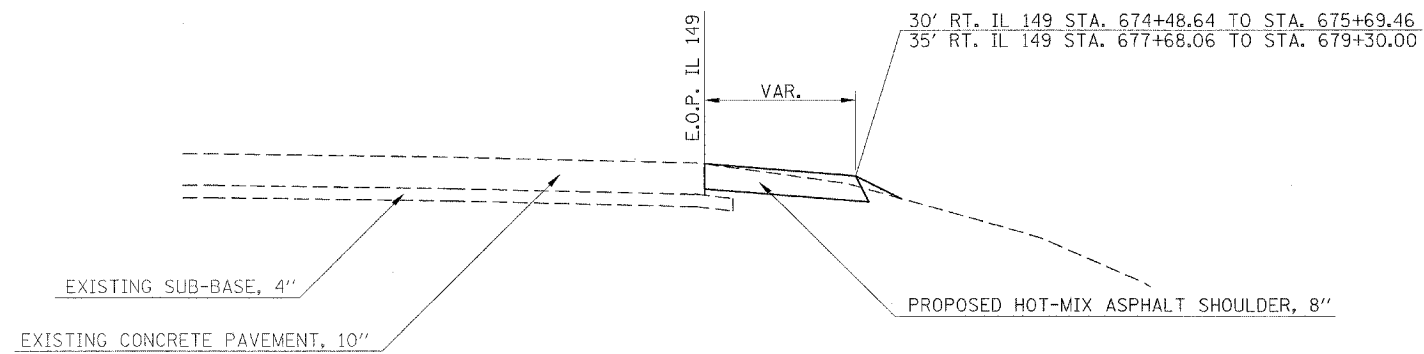
*SPECIALTY ITEMS*

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PLOT SCALE = 5/8" = 1' / IN.	CHECKED -	REVISED -	SCALE:			SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 78055			
PLOT DATE = 3/19/2008	DATE -	REVISED -									
							ILLINOIS FED. AID PROJECT				

## SUMMARY OF QUANTITIES (CONTINUED)

CODE NO.	ITEM	CONSTRUCTION TYPE CODE		J000	Y031-IF
		UNIT	URBAN TOTAL QUANTITIES	ROADWAY 100% STATE	TRAFFIC SIGNALS 100% STATE
87900200	DRILL EXISTING MANHOLE	EACH	1		1
88040070	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	1		1
88040090	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED	EACH	3		3
88040150	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED	EACH	1		1
88040160	SIGNAL HEAD, POLYCARBONATE, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED	EACH	1		1
88200100	TRAFFIC SIGNAL BACKPLATE	EACH	4		4
88500100	INDUCTIVE LOOP DETECTOR	EACH	10		10
88500200	INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT	EACH	1		1
88600100	DETECTOR LOOP, TYPE I	FOOT	861		861
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1
X0325964	TEMPORARY PAVEMENT MARKING-LINE 4" (SPECIAL)	FOOT	1405	1405	
X0325965	TEMPORARY PAVEMENT MARKING-LINE 24" (SPECIAL)	FOOT	52	52	
X0325966	TEMPORARY PAVEMENT MARKING-LETTERS AND SYMBOLS (SPECIAL)	SQ FT	142	142	
X8620020	UNINTERRUPTIBLE POWER SUPPLY	EACH	1		1

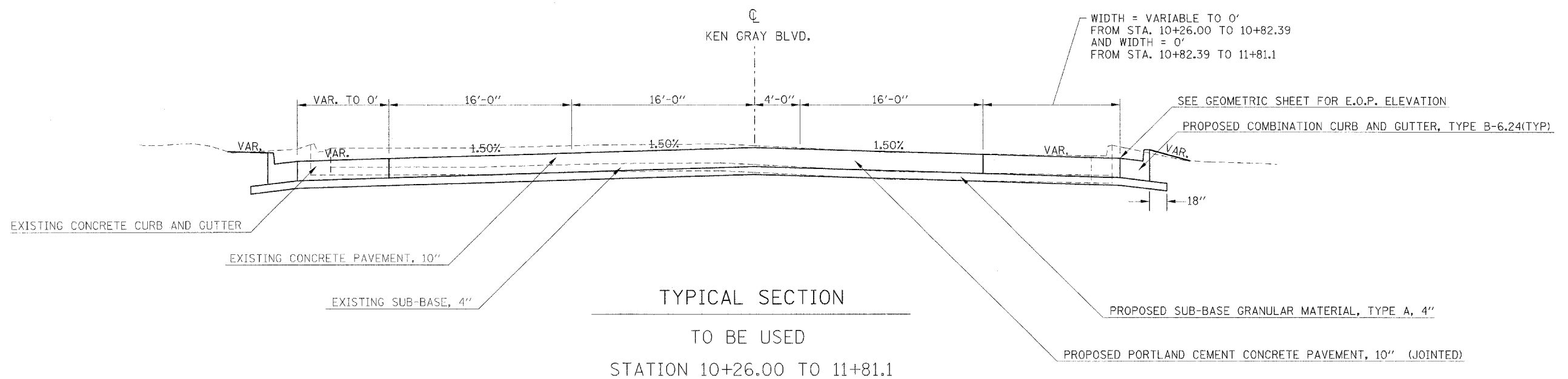
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PLOT SCALE = 50,000' / IN. PLOT DATE = 3/18/2008		CHECKED - DATE -	REVISED - REVISED -	SCALE: SHEET NO. OF SHEETS STA. TO STA.		CONTRACT NO. 78055 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



TYPICAL SECTION

TO BE USED

STATION 674+48.64 TO 675+69.46  
STATION 677+68.06 TO 679+30.00



TYPICAL SECTION

TO BE USED

STATION 10+26.00 TO 11+81.1

BITUMINOUS MIXTURE REQUIREMENTS

Location(s):	Hot-Mix Asphalt Shoulders, 8"
Mixture Use(s):	HMA Shoulders
AC/PG:	PG58-22
RAP % (Max):	50
Design Air Voids:	2.0 %, 30 Gyration Design
Mixture Composition: (Gradation Mixture)	HMA Shoulders
Friction Aggregate:	None



## PAVING SCHEDULE

LOCATION STATION TO STATION	SUB-BASE GRANULAR MATERIAL TYPE A 4"	PORTLAND CEMENT CONCRETE PVMNT 10" (JOINTED)	HOT-MIX ASPHALT SHOULDERS 8"	PROTECTIVE COAT
	SQ YD	SQ YD	SQ YD	SQ YD
674+48.64 TO 675+69.46 (IL 149 E.B.)			53	
677+68.06 TO 679+30.00 (IL 149 E.B.)			168	
10+26.00 TO 11+81.1 (KEN GRAY BLVD.)	1416	1267		1267
TOTALS	1416	1267	221	1267

## EARTHWORK SCHEDULE

LOCATION STATION TO STATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE(+) OR SHORTAGE(-)
	CU YD	CU YD	CU YD	CU YD
KEN GRAY BLVD.				
10+26.00 TO 11+81.10	126	95	423	328
TOTALS	126			-328

25% SHRINKAGE FOR EARTH EXCAVATION

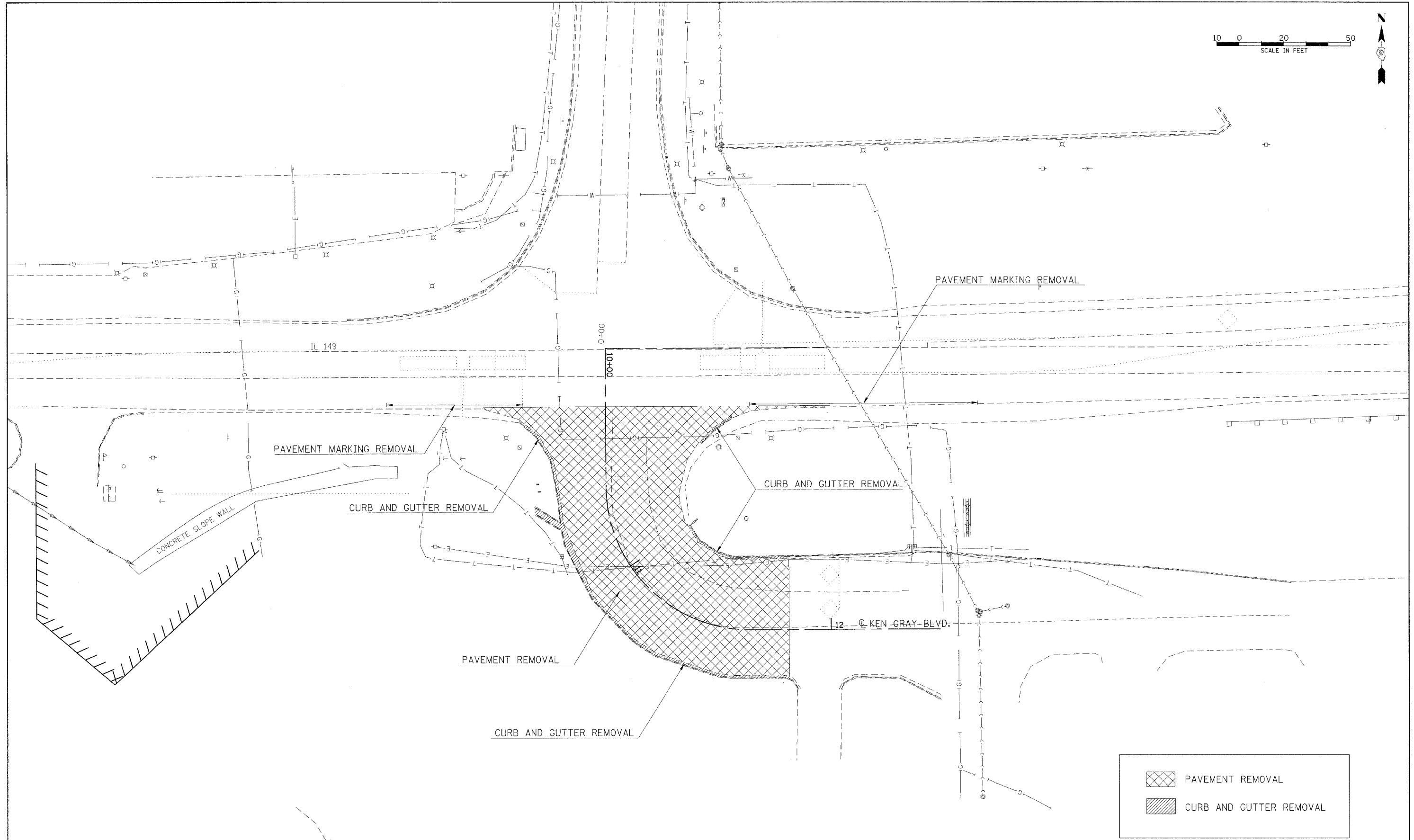
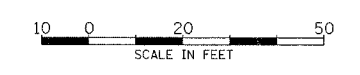
## SEEDING AND EROSION CONTROL

LOCATION STATION TO STATION	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	SEEDING CLASS 1B	SEEDING CLASS 7	AGRICULTURAL GROUND LIMESTONE	MULCH METHOD 2	EROSION CONTROL BLANKET	INLET AND PIPE PROTECTION	STONE RIP RAP CLASS A4	FILTER FABRIC
	POUND	POUND	POUND	ACRE	ACRE	TON	ACRE	SQ YD	EACH	SQ YD	SQ YD
KEN GRAY BLVD.											
10+26.00 TO 11+81.10	40	30	30	0.25	0.25	0.5	0.5	516			
10+63, 72.0' RT									1		
12+05, 66' LT										19	19
TOTALS	40	30	30	0.25	0.25	0.5	0.5	516	1	19	19

## STAGING PAVEMENT MARKING

LOCATION STATION TO STATION	TEMPORARY PAVEMENT MARKING -				TEMPORARY PAVEMENT MARKING TAPE, 6 INCH (BLACK) FOOT	
	LINE 4" (SPECIAL)		LINE 24" (SPECIAL)			LETTERS AND SYMBOLS (SPECIAL)
	YELLOW FOOT	WHITE FOOT	WHITE FOOT	WHITE SQ YD		WHITE SQ YD
KEN GRAY BLVD.						
STAGE 2						
10+35 TO 11+60 19' LT			125			
10+55 TO 12+20 8' LT & TAPER (DOUBLE)	300					
TH/LT ARROW AND ONLY				37.8		
RT ARROW AND ONLY				27.4		
STAGE 3						
10+55 TO 12+60 16' LT AND TAPER			180			
LT/TH/RT ARROW				38.4		
3 LT/TH ARROWS					156	
STAGE 4						
10+35 RT TURN LANE (STOP BAR)					300	
10+35 TO 12+50 16' LT					215	
10+55 LT/TH LANE (STOP BAR)					64	
10+60 LT			34			
10+60 TO 13+30 25' LT (DOUBLE)	480					
LT/TH/RT ARROW				38.4		
2 RT ARROWS					62.4	
STAGE 5						
10+55 TO 12+50 C/L (DOUBLE)					390	
10+60 TO 12+20 13' RT (DOUBLE)	320					
10+60 13' RT TO 5' LT			18			
SUBTOTALS	1100	305				
TOTALS		1405	52	142.0	1187	





	PAVEMENT REMOVAL
	CURB AND GUTTER REMOVAL

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		DRAWN -	REVISED -
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	PLOT DATE = 3/18/2008	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>REMOVAL SHEET</b>				
SCALE:	SHEET NO.	OF	SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
873	(28-5) TS-3,N-1	FRANKLIN	38	9
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 78055	

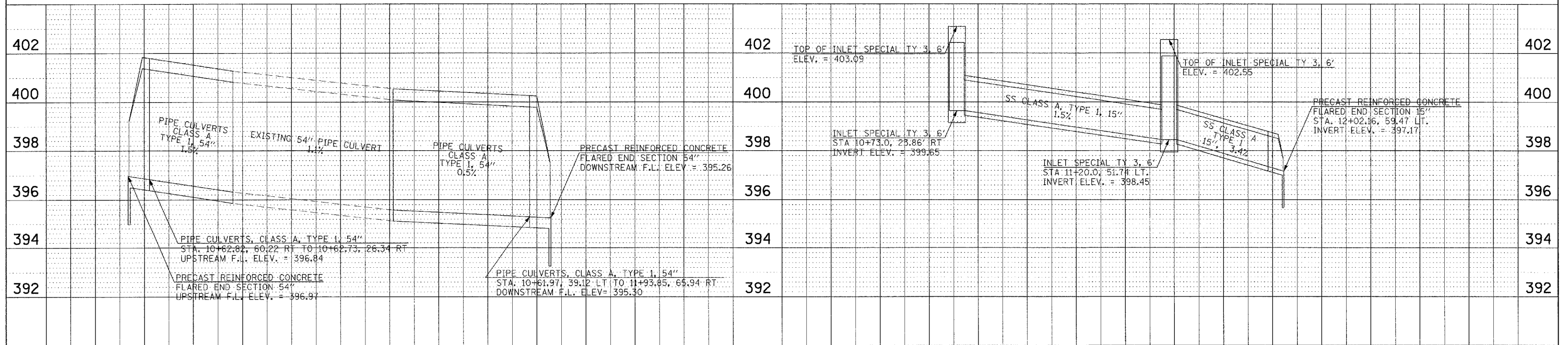


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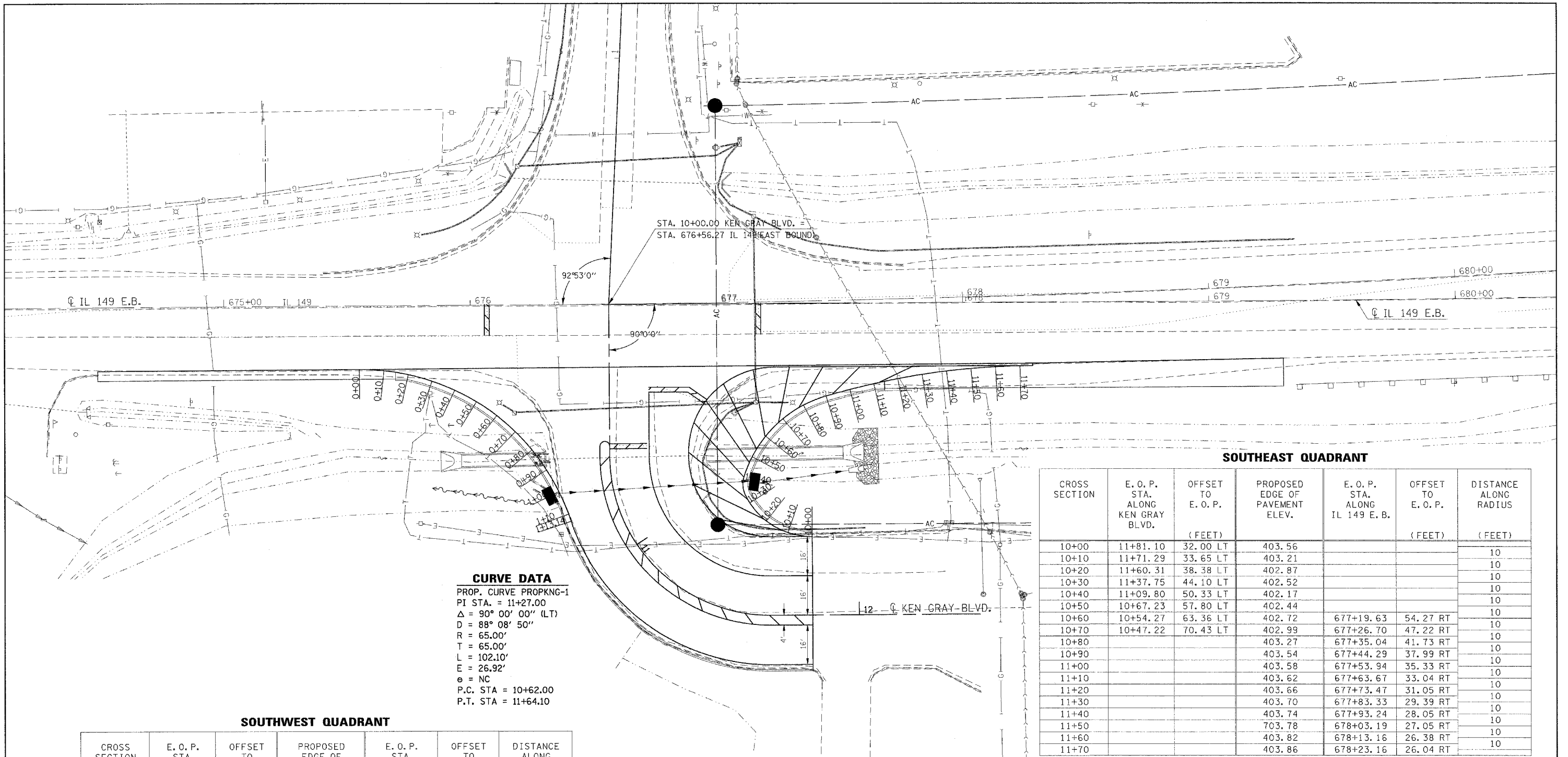
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NOTE BOOK NO.	ALIGNED	
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	DATE	
	NO. OF WAY CHECKED	
	PAID FILE NAME	

DRAINAGE PROFILE - PROPOSED 54" PIPE CULVERT

DRAINAGE PROFILE - PROPOSED 15" STORM SEWER



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PLOT DATE = 3/18/2008	DATE -	CHECKED -	REVISED -			CONTRACT NO. 78055				
		DATE -	REVISED -			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
SCALE: 20 SHEET NO. OF SHEETS STA. 10+26.00 TO STA. 11+81.10										



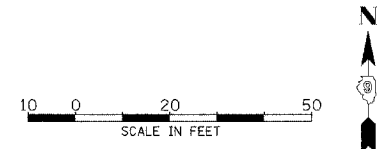
**CURVE DATA**  
 PROP. CURVE PROPKNG-1  
 PI STA. = 11+27.00  
 $\Delta = 90^\circ 00' 00''$  (LT)  
 $D = 88^\circ 08' 50''$   
 $R = 65.00'$   
 $T = 65.00'$   
 $L = 102.10'$   
 $E = 26.92'$   
 $e = NC$   
 P.C. STA = 10+62.00  
 P.T. STA = 11+64.10

**SOUTHWEST QUADRANT**

CROSS SECTION	E. O. P. STA. ALONG IL 149 E. B.	OFFSET TO E. O. P. (FEET)	PROPOSED EDGE OF PAVEMENT ELEV.	E. O. P. STA. ALONG KEN GRAY BLVD.	OFFSET TO E. O. P. (FEET)	DISTANCE ALONG RADIUS (FEET)
0+00	675+54.81	26.00 RT	403.33			10
0+10	675+64.79	26.56 RT	403.27			10
0+20	675+74.65	28.21 RT	403.21			10
0+30	675+84.26	30.95 RT	403.14			10
0+40	675+93.51	34.74 RT	403.08			10
0+50	676+02.28	39.54 RT	403.02			10
0+60	676+10.46	45.27 RT	402.96	10+45.27	45.81 RT	10
0+70	676+17.96	51.88 RT	402.90	10+51.88	38.31 RT	10
0+80			402.83	10+59.28	31.59 RT	10
0+90			402.77	10+65.84	25.89 RT	10
1+00			402.71	10+72.56	21.95 RT	10
1+10			402.74	10+79.94	20.11 RT	10
1+13.14			402.76	10+82.39	20.00 RT	3.14

**SOUTHEAST QUADRANT**

CROSS SECTION	E. O. P. STA. ALONG KEN GRAY BLVD.	OFFSET TO E. O. P. (FEET)	PROPOSED EDGE OF PAVEMENT ELEV.	E. O. P. STA. ALONG IL 149 E. B.	OFFSET TO E. O. P. (FEET)	DISTANCE ALONG RADIUS (FEET)
10+00	11+81.10	32.00 LT	403.56			10
10+10	11+71.29	33.65 LT	403.21			10
10+20	11+60.31	38.38 LT	402.87			10
10+30	11+37.75	44.10 LT	402.52			10
10+40	11+09.80	50.33 LT	402.17			10
10+50	10+67.23	57.80 LT	402.44			10
10+60	10+54.27	63.36 LT	402.72	677+19.63	54.27 RT	10
10+70	10+47.22	70.43 LT	402.99	677+26.70	47.22 RT	10
10+80			403.27	677+35.04	41.73 RT	10
10+90			403.54	677+44.29	37.99 RT	10
11+00			403.58	677+53.94	35.33 RT	10
11+10			403.62	677+63.67	33.04 RT	10
11+20			403.66	677+73.47	31.05 RT	10
11+30			403.70	677+83.33	29.39 RT	10
11+40			403.74	677+93.24	28.05 RT	10
11+50			403.78	678+03.19	27.05 RT	10
11+60			403.82	678+13.16	26.38 RT	10
11+70			403.86	678+23.16	26.04 RT	10

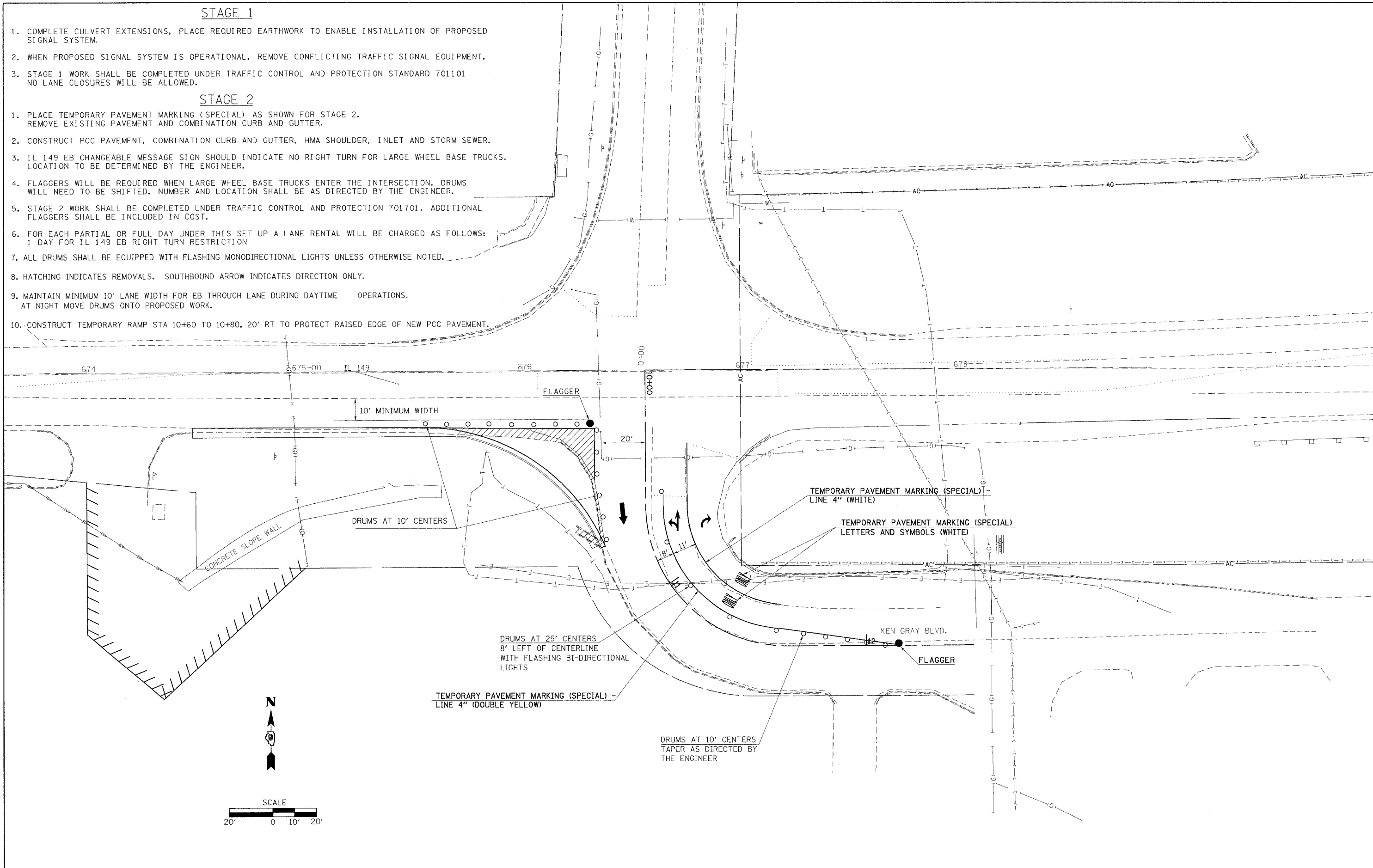


**STAGE 1**

1. COMPLETE CULVERT EXTENSIONS, PLACE REQUIRED EARTHWORK TO ENABLE INSTALLATION OF PROPOSED SIGNAL SYSTEM.
2. WHEN PROPOSED SIGNAL SYSTEM IS OPERATIONAL, REMOVE CONFLICTING TRAFFIC SIGNAL EQUIPMENT.
3. STAGE 1 WORK SHALL BE COMPLETED UNDER TRAFFIC CONTROL AND PROTECTION STANDARD 701101 NO LANE CLOSURES WILL BE ALLOWED.

**STAGE 2**

1. PLACE TEMPORARY PAVEMENT MARKING (SPECIAL) AS SHOWN FOR STAGE 2. REMOVE EXISTING PAVEMENT AND COMBINATION CURB AND GUTTER.
2. CONSTRUCT PCC PAVEMENT, COMBINATION CURB AND GUTTER, HMA SHOULDER, INLET AND STORM SEWER.
3. IL 149 EB CHANGEABLE MESSAGE SIGN SHOULD INDICATE NO RIGHT TURN FOR LARGE WHEEL BASE TRUCKS. LOCATION TO BE DETERMINED BY THE ENGINEER.
4. FLAGGERS WILL BE REQUIRED WHEN LARGE WHEEL BASE TRUCKS ENTER THE INTERSECTION. DRUMS WILL NEED TO BE SHIFTED. NUMBER AND LOCATION SHALL BE AS DIRECTED BY THE ENGINEER.
5. STAGE 2 WORK SHALL BE COMPLETED UNDER TRAFFIC CONTROL AND PROTECTION 701701. ADDITIONAL FLAGGERS SHALL BE INCLUDED IN COST.
6. FOR EACH PARTIAL OR FULL DAY UNDER THIS SET UP A LANE RENTAL WILL BE CHARGED AS FOLLOWS:  
1 DAY FOR IL 149 EB RIGHT TURN RESTRICTION
7. ALL DRUMS SHALL BE EQUIPPED WITH FLASHING MONODIRECTIONAL LIGHTS UNLESS OTHERWISE NOTED.
8. HATCHING INDICATES REMOVALS. SOUTHBOUND ARROW INDICATES DIRECTION ONLY.
9. MAINTAIN MINIMUM 10' LANE WIDTH FOR EB THROUGH LANE DURING DAYTIME OPERATIONS. AT NIGHT MOVE DRUMS ONTO PROPOSED WORK.
10. CONSTRUCT TEMPORARY RAMP STA 10+60 TO 10+80, 20' RT TO PROTECT RAISED EDGE OF NEW PCC PAVEMENT.

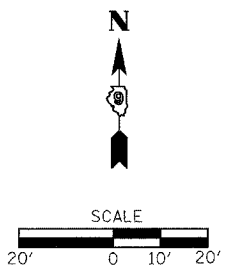
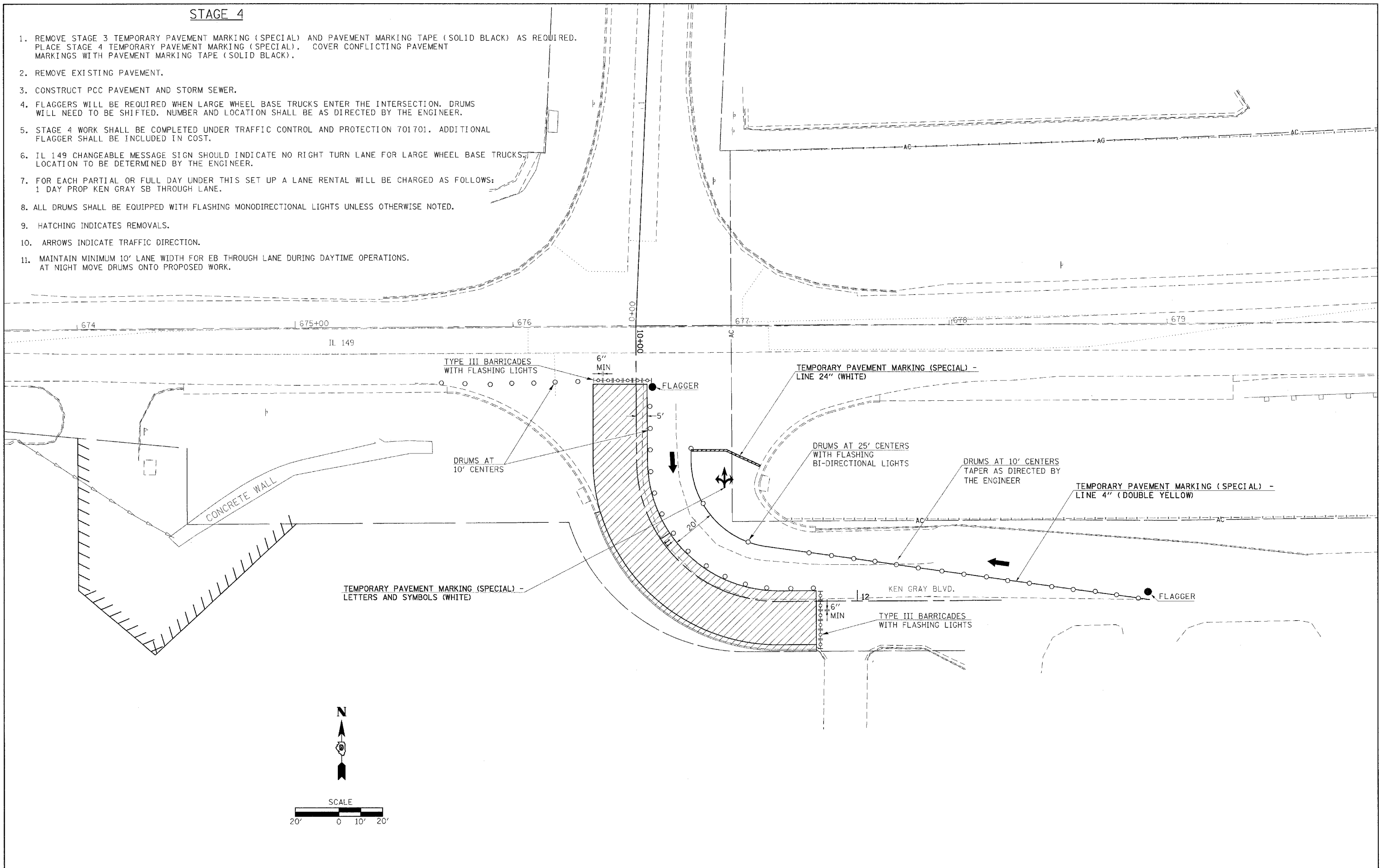


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PLOT SCALE = 20,0000' / IN.	CHECKED -	REVISED -	SCALE: 20			SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 78055		ILLINOIS FED. AID PROJECT	
PLOT DATE = 3/18/2008	DATE -	REVISED -									



**STAGE 4**

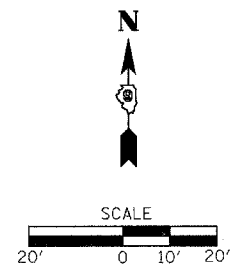
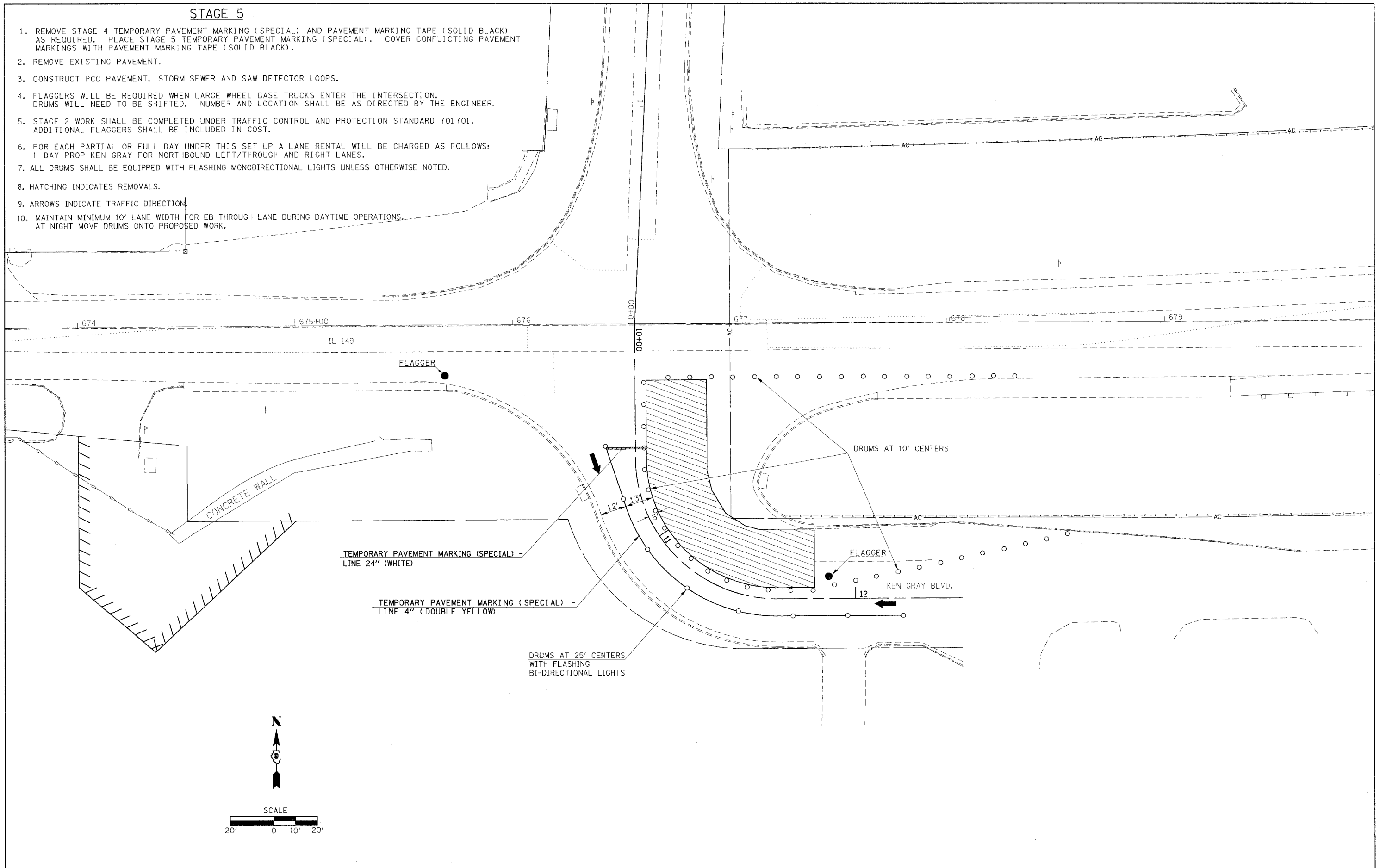
1. REMOVE STAGE 3 TEMPORARY PAVEMENT MARKING (SPECIAL) AND PAVEMENT MARKING TAPE (SOLID BLACK) AS REQUIRED. PLACE STAGE 4 TEMPORARY PAVEMENT MARKING (SPECIAL). COVER CONFLICTING PAVEMENT MARKINGS WITH PAVEMENT MARKING TAPE (SOLID BLACK).
2. REMOVE EXISTING PAVEMENT.
3. CONSTRUCT PCC PAVEMENT AND STORM SEWER.
4. FLAGGERS WILL BE REQUIRED WHEN LARGE WHEEL BASE TRUCKS ENTER THE INTERSECTION. DRUMS WILL NEED TO BE SHIFTED. NUMBER AND LOCATION SHALL BE AS DIRECTED BY THE ENGINEER.
5. STAGE 4 WORK SHALL BE COMPLETED UNDER TRAFFIC CONTROL AND PROTECTION 701701. ADDITIONAL FLAGGER SHALL BE INCLUDED IN COST.
6. IL 149 CHANGEABLE MESSAGE SIGN SHOULD INDICATE NO RIGHT TURN LANE FOR LARGE WHEEL BASE TRUCKS. LOCATION TO BE DETERMINED BY THE ENGINEER.
7. FOR EACH PARTIAL OR FULL DAY UNDER THIS SET UP A LANE RENTAL WILL BE CHARGED AS FOLLOWS:  
1 DAY PROP KEN GRAY SB THROUGH LANE.
8. ALL DRUMS SHALL BE EQUIPPED WITH FLASHING MONODIRECTIONAL LIGHTS UNLESS OTHERWISE NOTED.
9. HATCHING INDICATES REMOVALS.
10. ARROWS INDICATE TRAFFIC DIRECTION.
11. MAINTAIN MINIMUM 10' LANE WIDTH FOR EB THROUGH LANE DURING DAYTIME OPERATIONS. AT NIGHT MOVE DRUMS ONTO PROPOSED WORK.



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		DRAWN -	REVISED -					873	(28-5) TS-3, N-1	FRANKLIN	38	15
		CHECKED -	REVISED -		CONTRACT NO. 78055							
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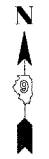
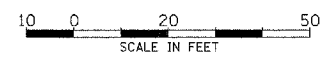
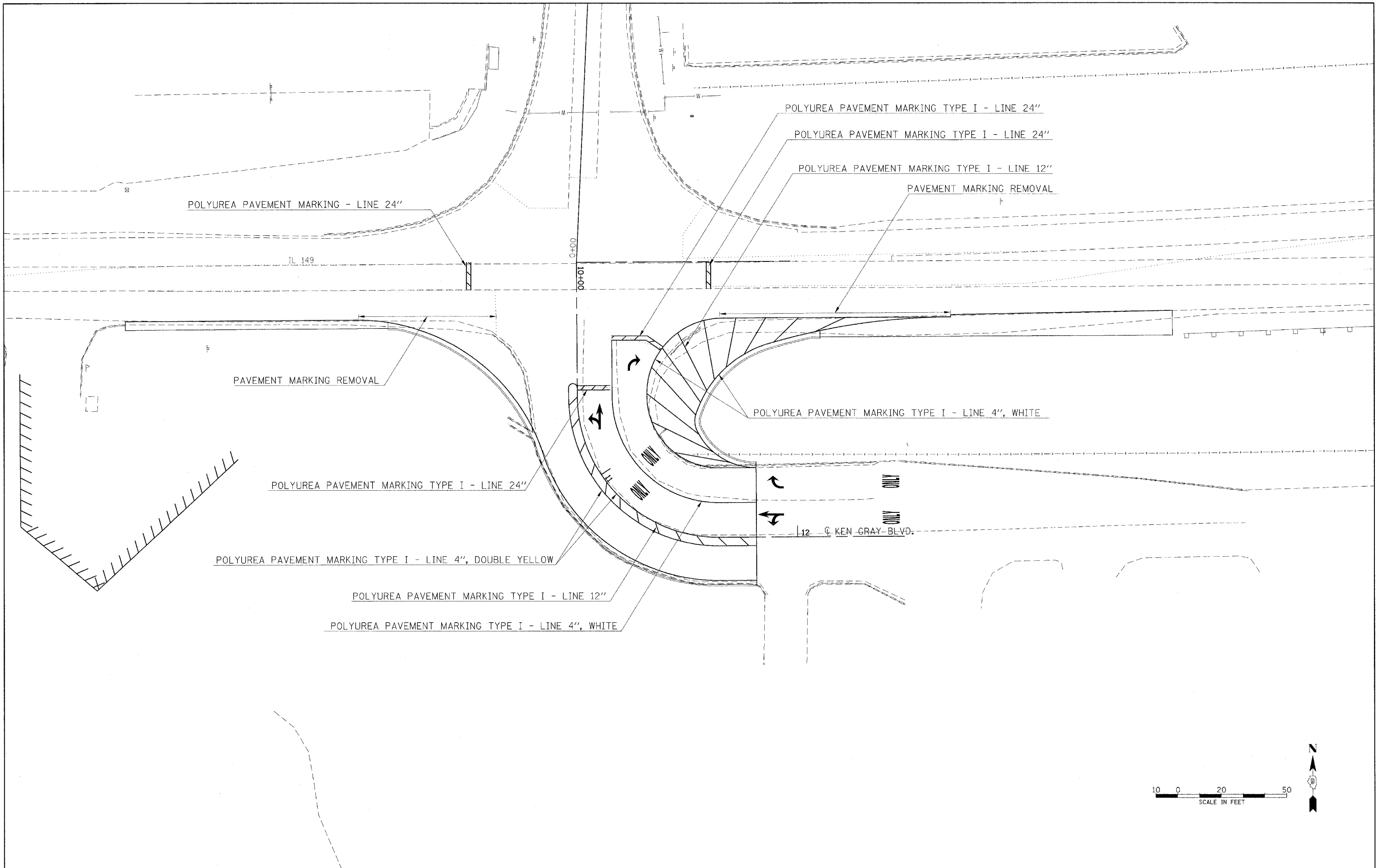
**STAGE 5**

1. REMOVE STAGE 4 TEMPORARY PAVEMENT MARKING (SPECIAL) AND PAVEMENT MARKING TAPE (SOLID BLACK) AS REQUIRED. PLACE STAGE 5 TEMPORARY PAVEMENT MARKING (SPECIAL). COVER CONFLICTING PAVEMENT MARKINGS WITH PAVEMENT MARKING TAPE (SOLID BLACK).
2. REMOVE EXISTING PAVEMENT.
3. CONSTRUCT PCC PAVEMENT, STORM SEWER AND SAW DETECTOR LOOPS.
4. FLAGGERS WILL BE REQUIRED WHEN LARGE WHEEL BASE TRUCKS ENTER THE INTERSECTION. DRUMS WILL NEED TO BE SHIFTED. NUMBER AND LOCATION SHALL BE AS DIRECTED BY THE ENGINEER.
5. STAGE 2 WORK SHALL BE COMPLETED UNDER TRAFFIC CONTROL AND PROTECTION STANDARD 701701. ADDITIONAL FLAGGERS SHALL BE INCLUDED IN COST.
6. FOR EACH PARTIAL OR FULL DAY UNDER THIS SET UP A LANE RENTAL WILL BE CHARGED AS FOLLOWS:  
1 DAY PROP KEN GRAY FOR NORTHBOUND LEFT/THROUGH AND RIGHT LANES.
7. ALL DRUMS SHALL BE EQUIPPED WITH FLASHING MONODIRECTIONAL LIGHTS UNLESS OTHERWISE NOTED.
8. HATCHING INDICATES REMOVALS.
9. ARROWS INDICATE TRAFFIC DIRECTION.
10. MAINTAIN MINIMUM 10' LANE WIDTH FOR EB THROUGH LANE DURING DAYTIME OPERATIONS. AT NIGHT MOVE DRUMS ONTO PROPOSED WORK.



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		DATE -	REVISED -										





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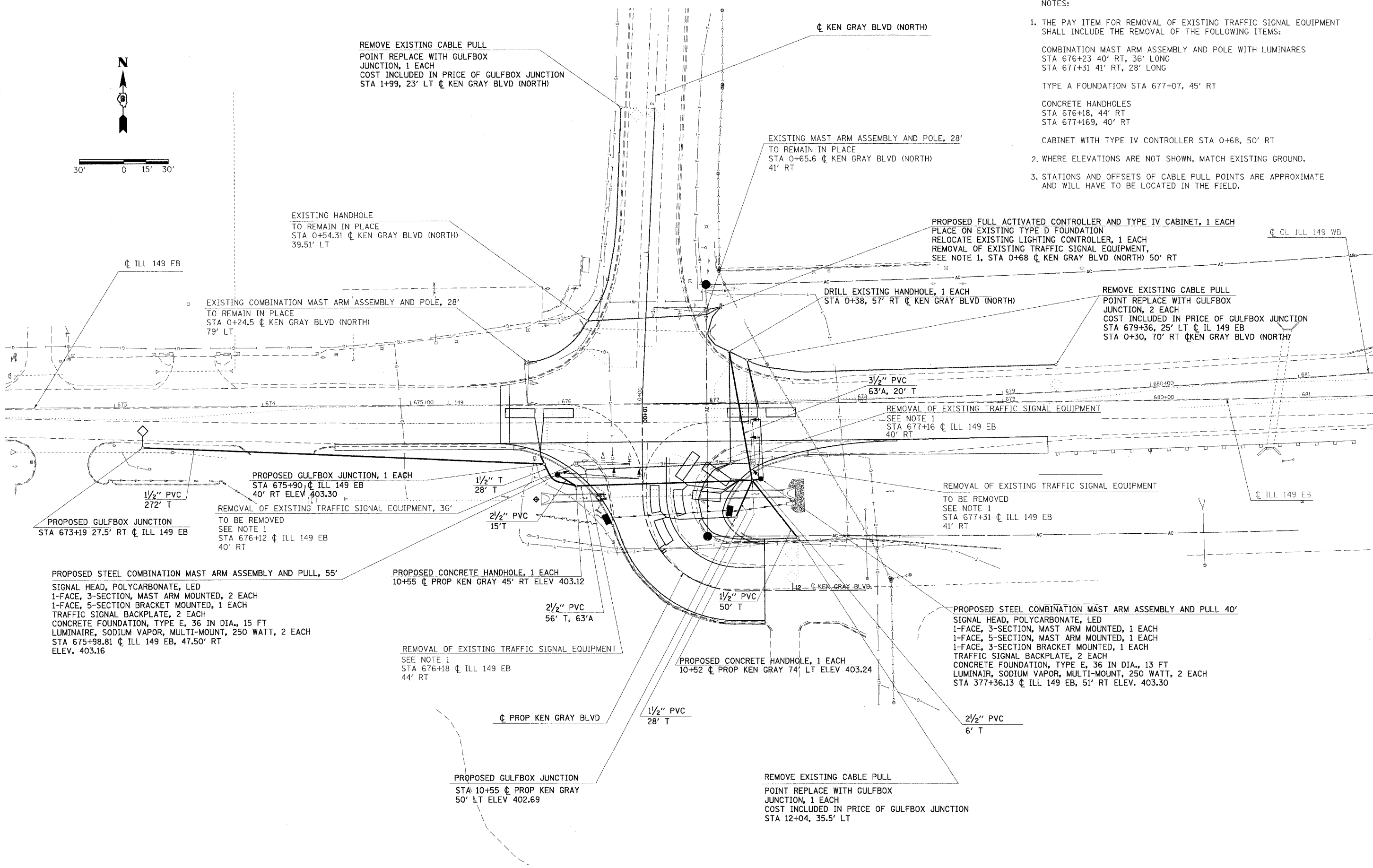
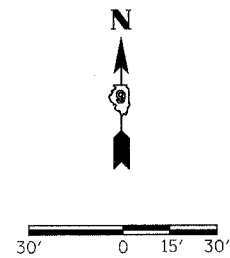
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING SHEET**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE. 873	SECTION (28-5) TS-3, N-1	COUNTY FRANKLIN	TOTAL SHEETS 38	SHEET NO. 17
CONTRACT NO. 78055				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



- NOTES:
- THE PAY ITEM FOR REMOVAL OF EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL INCLUDE THE REMOVAL OF THE FOLLOWING ITEMS:  
 COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRES  
 STA 676+23 40' RT, 36' LONG  
 STA 677+31 41' RT, 28' LONG  
 TYPE A FOUNDATION STA 677+07, 45' RT  
 CONCRETE HANDHOLES  
 STA 676+18, 44' RT  
 STA 677+169, 40' RT  
 CABINET WITH TYPE IV CONTROLLER STA 0+68, 50' RT
  - WHERE ELEVATIONS ARE NOT SHOWN, MATCH EXISTING GROUND.
  - STATIONS AND OFFSETS OF CABLE PULL POINTS ARE APPROXIMATE AND WILL HAVE TO BE LOCATED IN THE FIELD.

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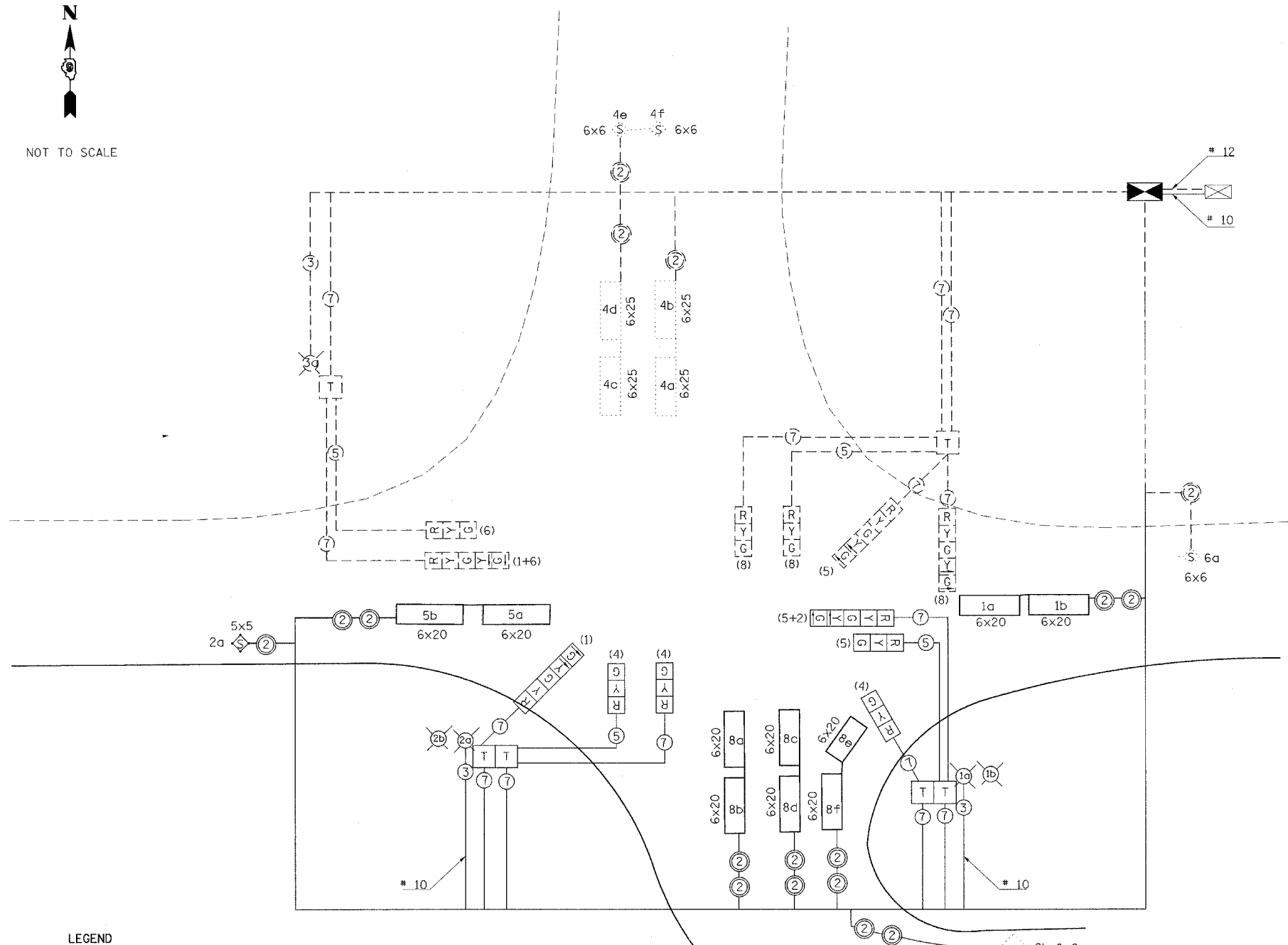
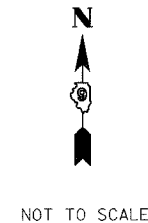
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED TRAFFIC SIGNAL AND LIGHTING PLAN**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
873	(28-5) TS-3,N-1	FRANKLIN	38	18
CONTRACT NO. 78055				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



**LEGEND**

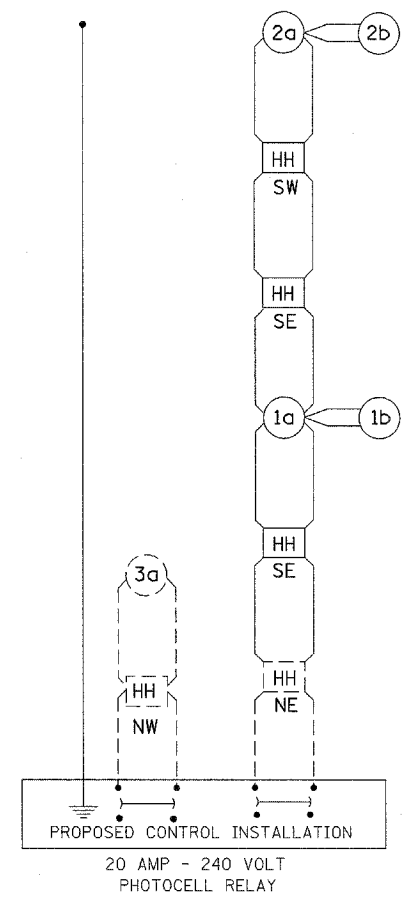
- 5a INDICATES LOOP WITH 2" CORE DRILLED CORNERS; NUMBER INDICATES PHASE, LOWER CASE LETTER INDICATES AMPLIFIER, "S" INDICATES SYSTEM LOOP, SIZED AS LABELED
- T INDICATES TERMINAL BLOCK IN MAST ARM POLE BASE (SEE SPECIAL PROVISIONS)
- PROPOSED TRAFFIC SIGNAL CONTROLLER CABINET
- EXISTING LIGHTING CONTROLLER WITH PHOTOCELL RELAY
- 5a INDICATES 5'x5' LOOP WITH 2" CORE DRILLED CORNERS; NUMBER INDICATES PHASE, LOWER CASE LETTER INDICATES AMPLIFIER, "S" INDICATES SYSTEM LOOP.
- EXISTING LOOP TO REMAIN IN PLACE
- 2 INDICATES PROPOSED 2/C TWISTED, SHIELDED CABLE IN CONDUIT.

- 2 INDICATES EXISTING 2/C TWISTED, SHIELDED CABLE IN CONDUIT TO REMAIN IN PLACE.
- 5 NUMBER IN CIRCLE INDICATES NUMBER OF CONDUCTORS IN THAT CABLE.
- 2b PROPOSED LUMINAIRE 250 WATT
- EXISTING LUMINAIRE TO REMAIN IN PLACE OR TO BE REFURBISHED
- EXISTING CABLE TO REMAIN IN PLACE
- (4) NUMBER IN PARENTHESIS INDICATES PHASE.

**NOTES**

1. ALL SIGNAL LENSES SHALL BE 12 INCHES.
2. ELECTRIC CABLE DENOTED AS #10, 3/C BEING INSTALLED TO THE COMBINATION MAST ARM POLES SHALL NOT GO THROUGH THE TERMINAL BLOCK BUT SHOULD BE SPLICED IN POLE. SEE LIGHT POLE FOUNDATION DETAIL.
3. ELECTRIC SERVICE IS SUPPLIED BY AMEREN CIPS.
4. ALL CABLES SHALL BE A.W.G.#14 UNLESS OTHERWISE NOTED.

**WIRING DIAGRAM FOR ROADWAY LIGHTING**



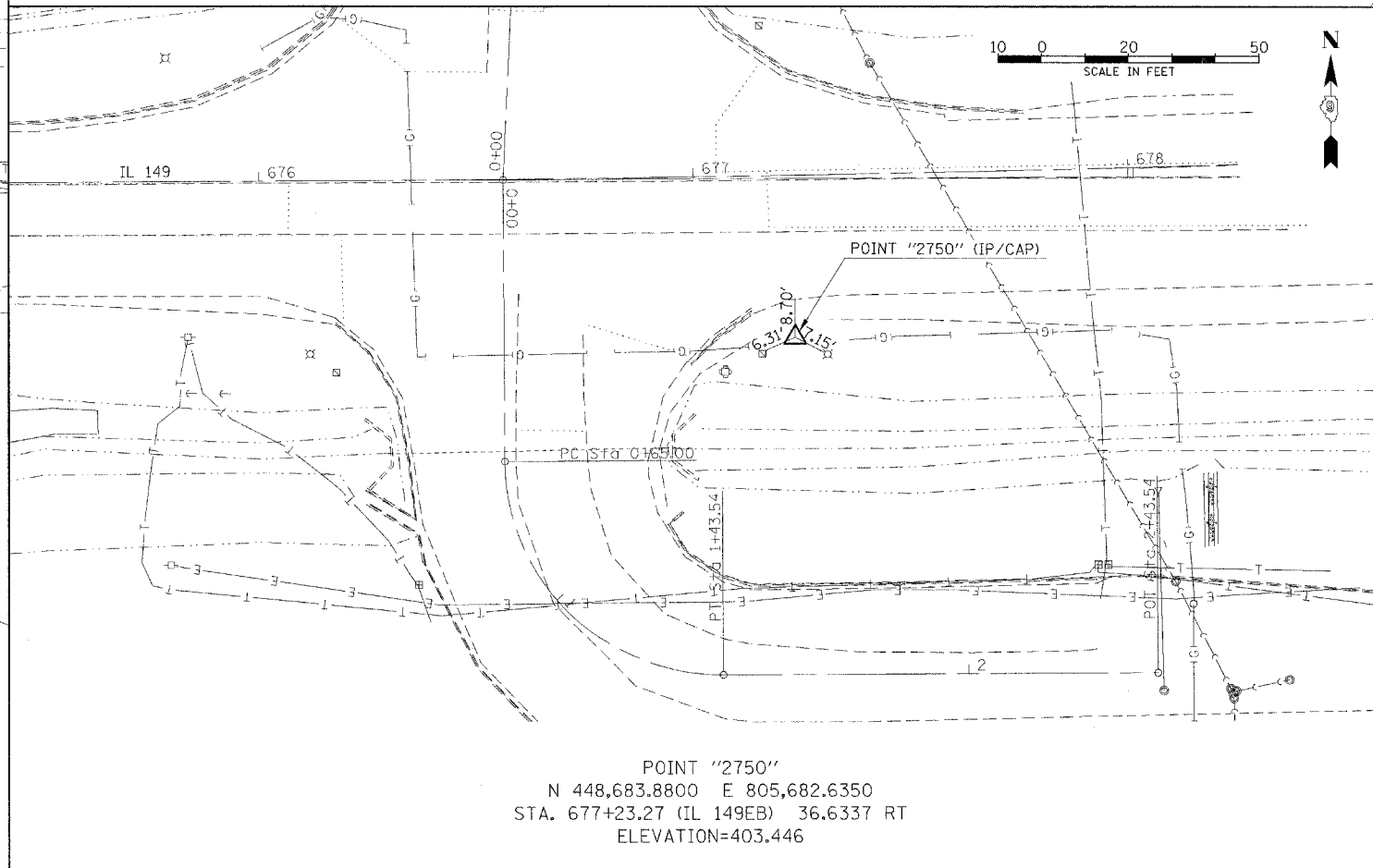
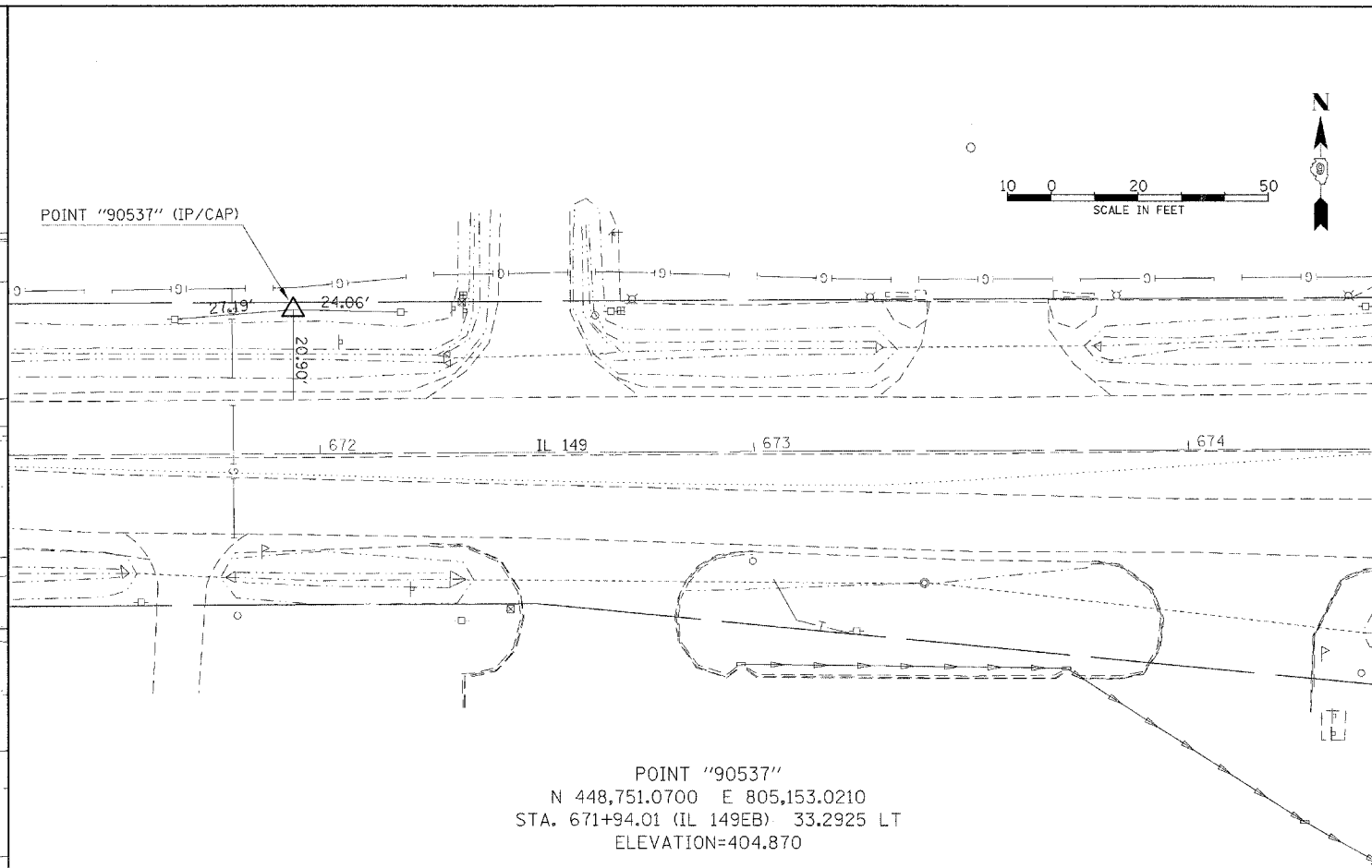
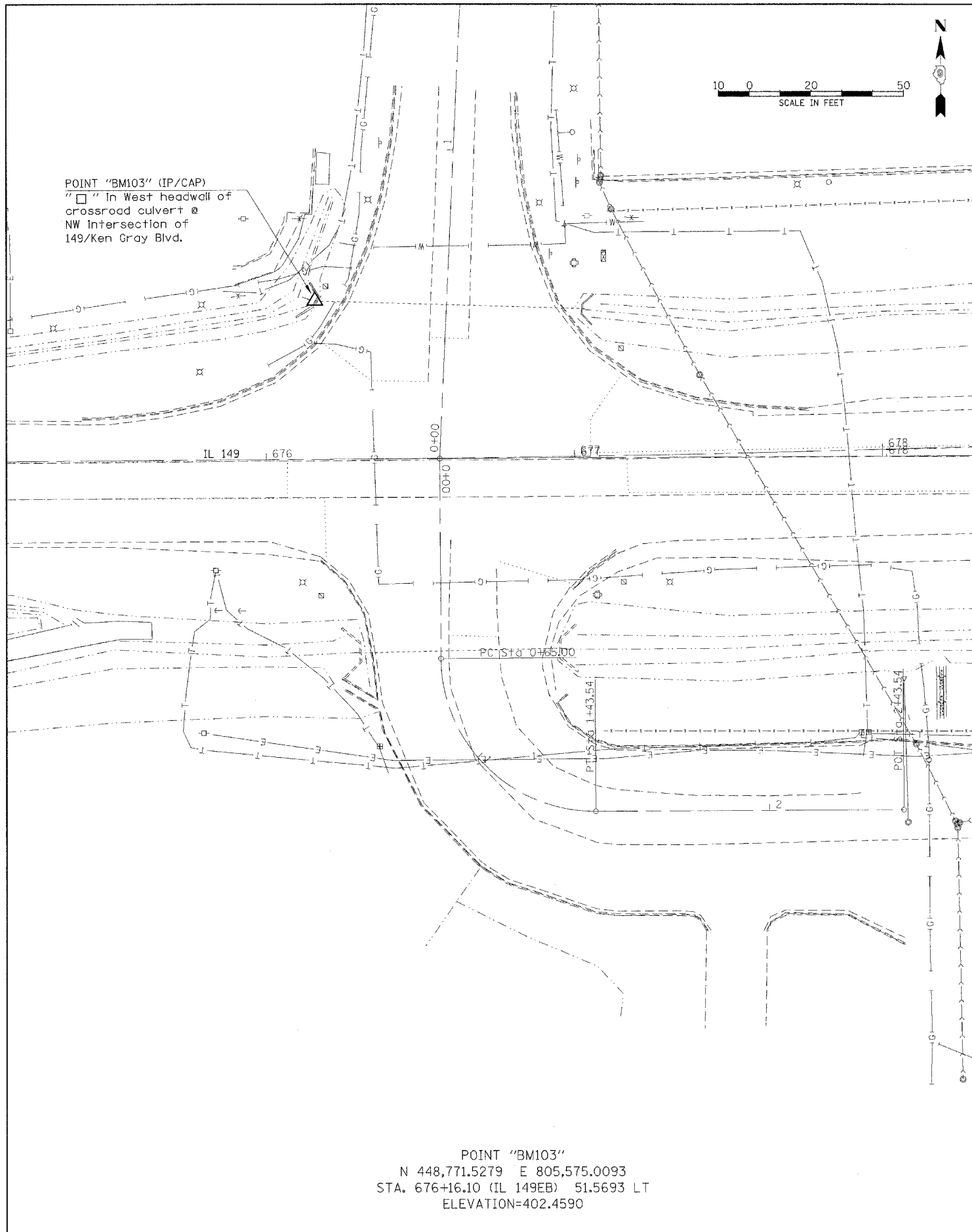
**LEGEND**

- HH INDICATES PROPOSED TRAFFIC SIGNAL HANDHOLE
- HANDHOLE DESIGNATIONS:  
NE NORTHEAST CORNER  
NW NORTHWEST CORNER  
SE SOUTHEAST CORNER  
SW SOUTHWEST CORNER
- 1b NUMBER INDICATES POSITION OF POLE IN WIRING DIAGRAM. LETTER INDICATES LUMINAIRE ON POLE.
- INDICATES PROPOSED GROUND AT LIGHT STANDARD.
- INDICATES CONTINUOUS GROUND FOR CONTROL INSTALLATION.

**NOTES**

1. ALL LUMINAIRES ARE 250 WATTS.  
PROPOSED CABLE IS CONDUIT, 600 V (XLP-TYPE USC) 3/C NO 10. TO BE USED IN POLES AND LUMINAIRES.
2. EXISTING CALBE IS 3/C NO 12.
3. THE SIGNAL CONDUIT SYSTEM SHALL BE UTILIZED TO INSTALL WIRING FOR ALL THE PROPOSED LIGHTING SYSTEM.

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PLOT SCALE = 3/8" = 1' IN.	CHECKED -	REVISED -	873			(28-5) TS-3-N-1	FRANKLIN	38	19		
PLOT DATE = 3/19/2008	DATE -	REVISED -	CONTRACT NO. 78055								
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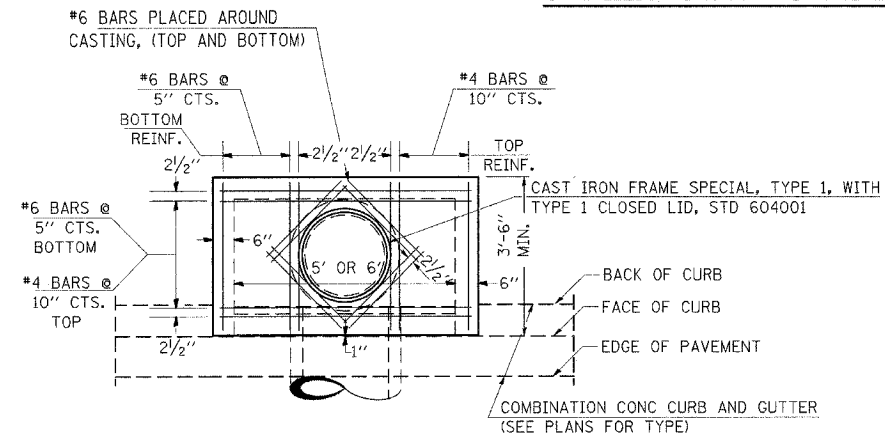
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TIE POINT SHEET**

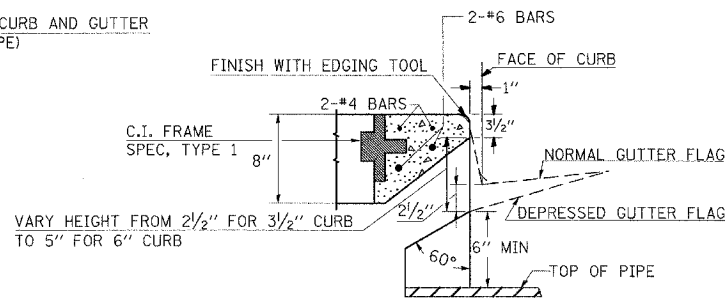
SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
873	(28-5) TS-3, N-1	FRANKLIN	38	20
CONTRACT NO. 78055				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

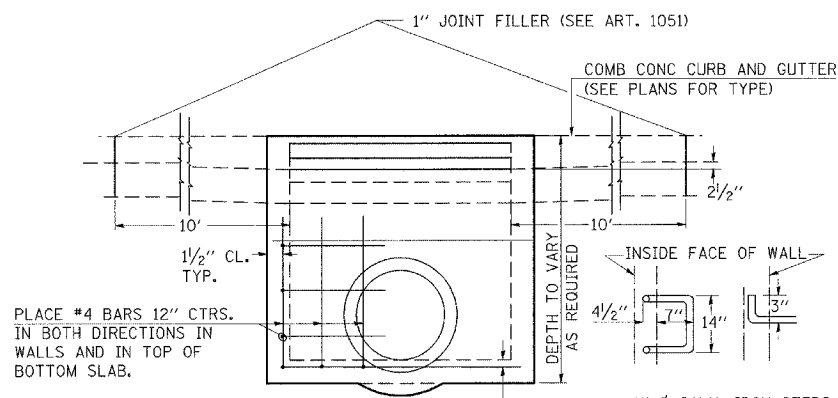
## DETAILS OF INLET SPECIAL, TYPE 3, 5 FEET AND 6 FEET



PLAN



SECTION AT WEIR



ELEVATION

DESIGN	PIPE DIA	"D"
A	18" & LESS	2'-6"
B	21" & 24"	3'-0"
C	27" & 30"	3'-7"
D	33" & 36"	4'-2"
E	42"	4'-9"
F	48"	5'-0"
G	54"	6'-1"

**NOTES:**

PROVIDE 1/2" CLEARANCE TYP. ALL REINFORCEMENT UNLESS OTHERWISE SPECIFIED.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT. SET FACE OF INLET 1" BEHIND FACE OF CURB. DEPRESS GUTTER FLOWLINE AT INLET 2 1/2" BELOW NORMAL GUTTER FLOWLINE. CONSTRUCT TRANSITION IN FLOWLINE IN 10 FEET EACH SIDE OF INLET. PIPES TO BE CONNECTED TO INLET AS SHOWN ON STORM SEWER LAYOUT.

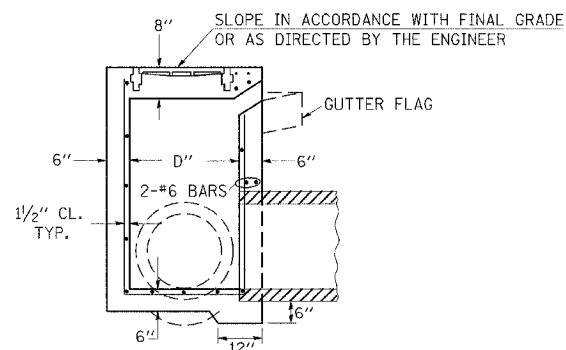
INLETS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR INLET, SPECIAL, TYPE 3, 5 FEET OR INLET, SPECIAL, TYPE 3, 6 FEET WHICH PRICE SHALL INCLUDE THE CAST IRON FRAME, SPECIAL, TYPE 1 WITH TYPE 1 CLOSED LID, THE REINFORCEMENT BARS, METAL STEPS AND JOINT FILLER.

\*\*THE GALVONIZED IRON STEPS AS DETAILED HEREON ARE TYPICAL. STEPS OF OTHER DESIGN AND MATERIAL THAT WILL CONFORM TO THE MINIMUM REQUIREMENTS OF THE STEPS SHOWN. MAY BE USED WHEN APPROVED BY THE ENGINEER.

IF THE INLET IS NOT CAST IN PLACE THEN THE INLET SHALL BE PRODUCED ACCORDING TO THE DEPARTMENT'S CURRENT POLICY MEMORANDUM, "QUALITY CONTROL/QUALITY ASSURANCE PROGRAM FOR PRECAST CONCRETE PRODUCTS".

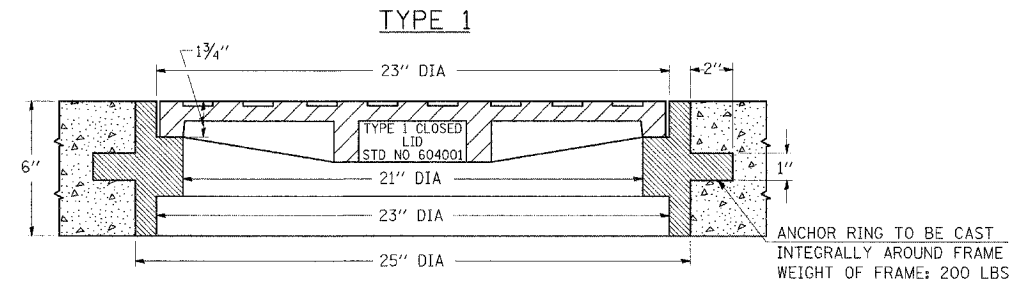
**NOTE TO DESIGNER:**

WHEN USING THIS STANDARD THE DESIGNER SHOULD ALSO CHECK BDE SPECIAL PROVISION 419 "PRECAST CONCRETE PRODUCTS".

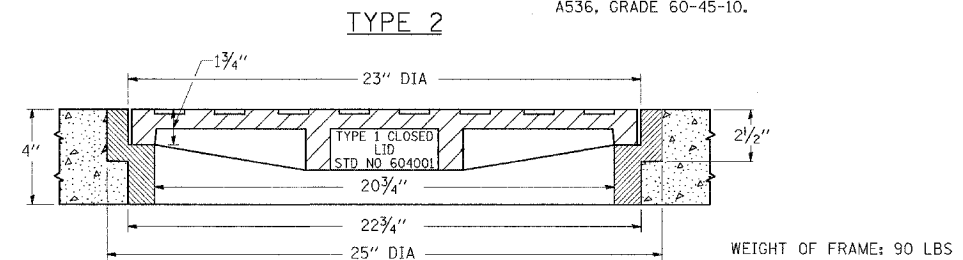


SECTION

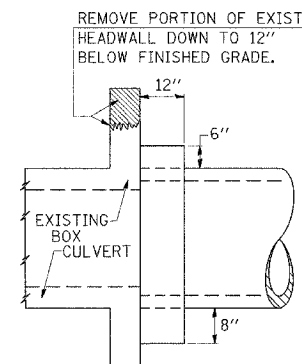
## DETAILS OF CAST IRON FRAMES SPECIAL TYPE 1 & TYPE 2 WITH TYPE 1 CLOSED LID



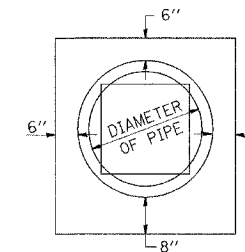
THE FRAMES MAY BE MADE OF EITHER GRAY IRON CONFORMING TO THE STANDARD SPECIFICATIONS OR DUCTILE IRON CONFORMING TO THE SPECIFICATIONS FOR DUCTILE IRON CASTING, A.S.T.M. DESIGNATION: A536, GRADE 60-45-10.



## DETAILS OF CONCRETE COLLAR



SIDE VIEW



END VIEW

**TABULATION**

DIAMETER OF PIPE	CL SI CONC CU YDS EST
12"	0.16
15"	0.19
18"	0.21
24"	0.29
30"	0.37
36"	0.44
42"	0.53
48"	0.62
54"	0.71
60"	0.81
72"	1.03

THE CONCRETE COLLAR SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD FOR CONCRETE COLLAR, AS SHOWN ON THE PLANS, WHICH PRICE SHALL INCLUDE THE REMOVAL OF SUCH PORTIONS OF THE EXISTING HEADWALLS AS MAY BE REQUIRED.

CLASS SI CONCRETE SHALL BE USED THROUGHOUT.

STD. 9-1

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAILS**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
873	(28-5) TS-3,N-1	FRANKLIN	38	21
CONTRACT NO. 78055				

FILE NAME	USER NAME	DESIGNED	REVISED
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		DRAWN	REVISED
		CHECKED	REVISED
		DATE	REVISED

REVISIONS
REDRAWN 2-15-89
REVISED 8-15-94
REVISED 1-19-99
REVISED 5-6-04

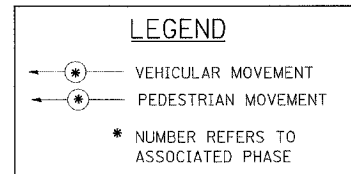
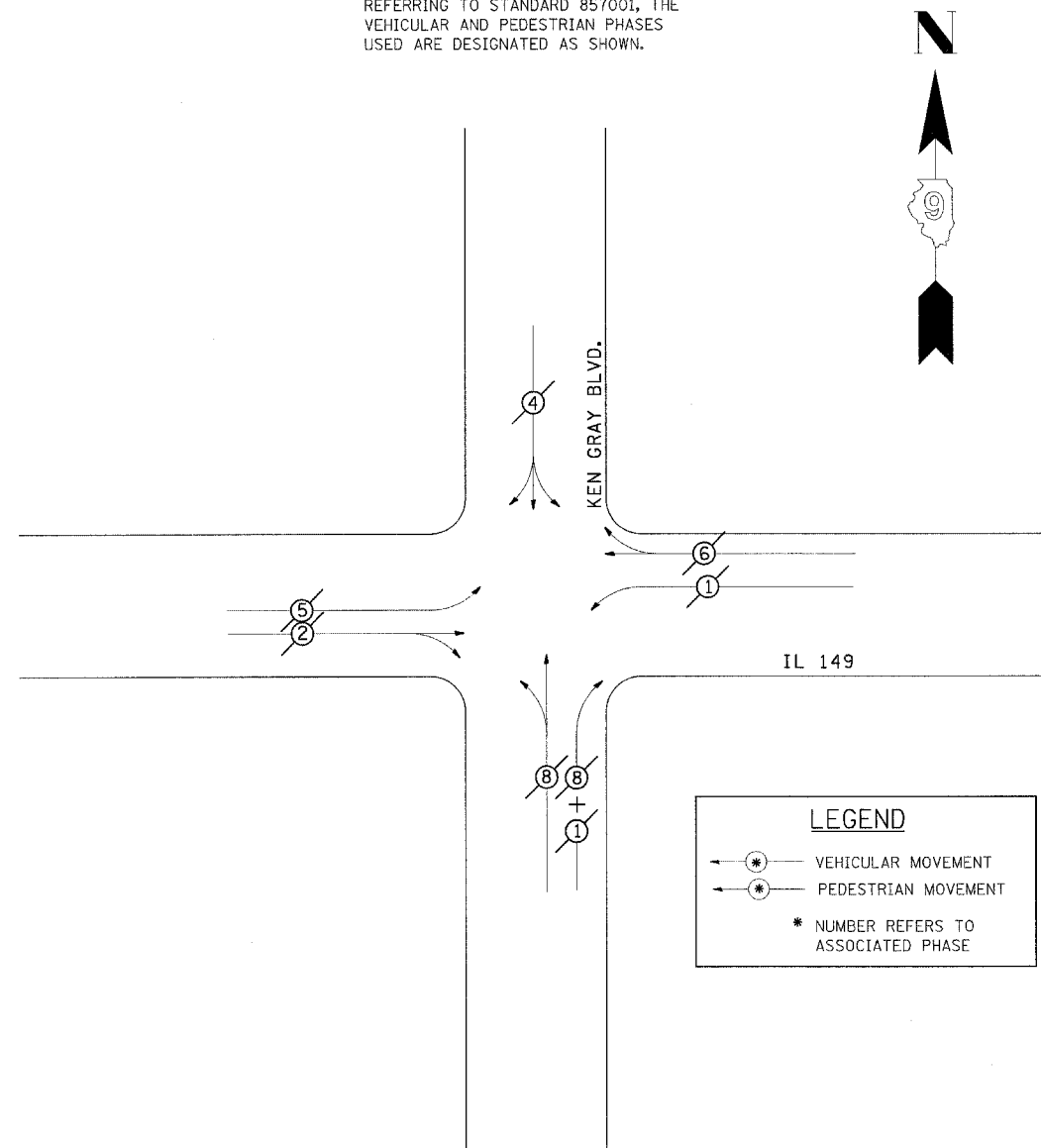
REVISIONS
REDRAWN 2-15-89
REVISED 8-19-94
REVISED

STD. 9-19

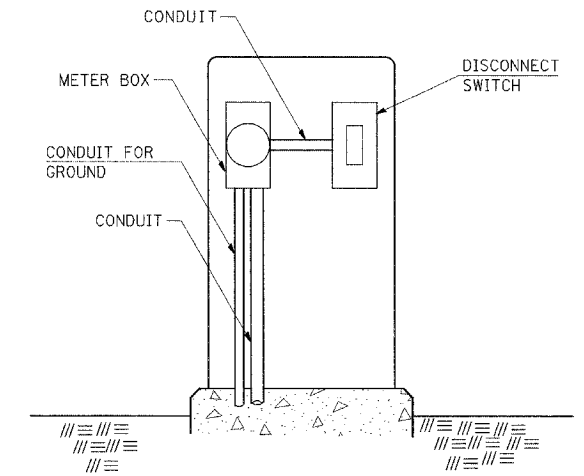
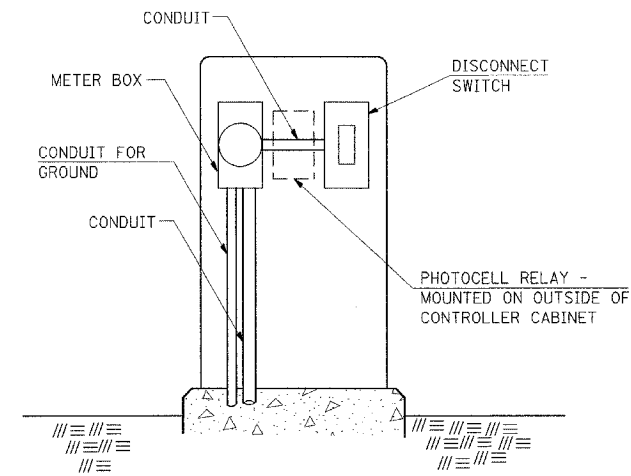
## PHASE DESIGNATION DIAGRAM

CONTROLLER SPECIFIED: FULL ACTUATED CONTROLLER, STANDARD SEQUENCE IV, 8 PHASE, TYPE IV CONTROLLER CABINET

REFERRING TO STANDARD 857001, THE VEHICULAR AND PEDESTRIAN PHASES USED ARE DESIGNATED AS SHOWN.



## SERVICE INSTALLATION DETAILS



SERVICE INSTALLATION (SPECIAL) WITH PHOTOCELL RELAY

SERVICE INSTALLATION (SPECIAL)

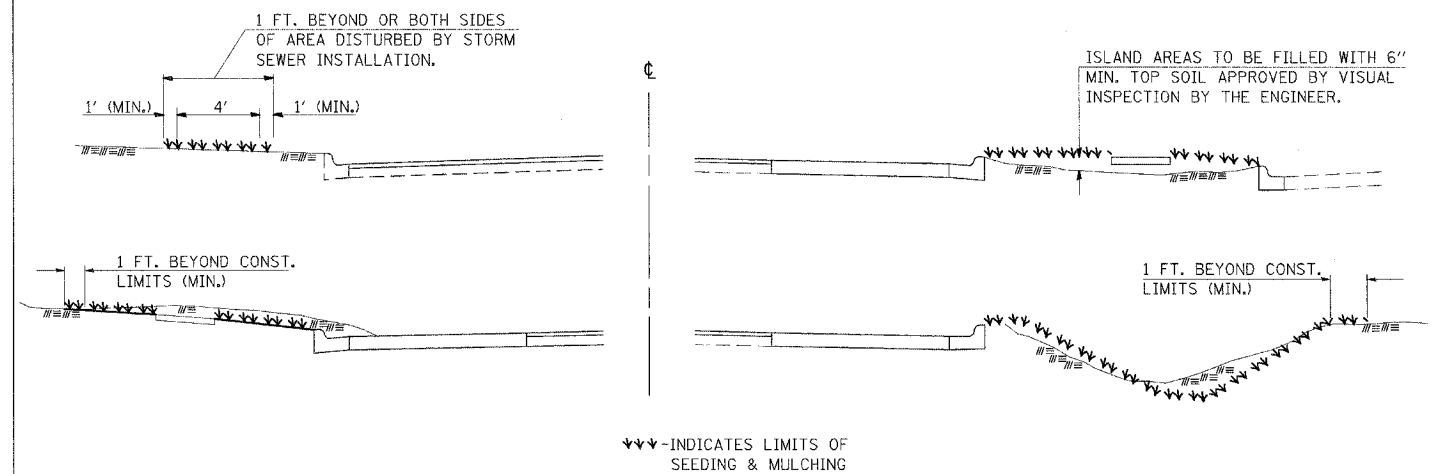
**NOTE:**

MATERIAL AND SIZE OF CONDUIT AND CABLE AS REQUIRED BY UTILITY COMPANY

REVISIONS	
DRAWN	1-31-90
REVISED	2-24-92
REVISED	
REVISED	

STD. 9-68

## SEEDING & MULCHING



### GENERAL NOTES

IN GENERAL, ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION OPERATIONS SHALL BE SEEDED AND MULCHED UPON COMPLETION OF ALL GRADING OPERATIONS.

FERTILIZER NUTRIENTS AND LIMESTONE SHALL BE APPLIED TO ALL SEEDED AREAS.

THE RATES OF APPLICATION OF FERTILIZER, MULCH AND LIMESTONE SHALL BE AS SPECIFIED IN THE SPECIAL PROVISIONS.

SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS SHALL GOVERN THIS WORK EXCEPT AS SPECIFIED HEREIN OR AS NOTED IN THE SPECIAL PROVISIONS.

REVISIONS	
DRAWN	1-31-90
REVISED	5-30-90
REVISED	12-10-01

STD. 9-66

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DETAILS

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
873	(28-5) TS-3,N-1	FRANKLIN	38	22
CONTRACT NO. 78055				

STD. 9-52

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DRAWN -  
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PLOT DATE = 3/18/2008

REVISOR -  
CHECKED -  
DATE -

DESIGNED -  
DRAWN -  
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DATE -

REVISOR -  
CHECKED -  
DATE -

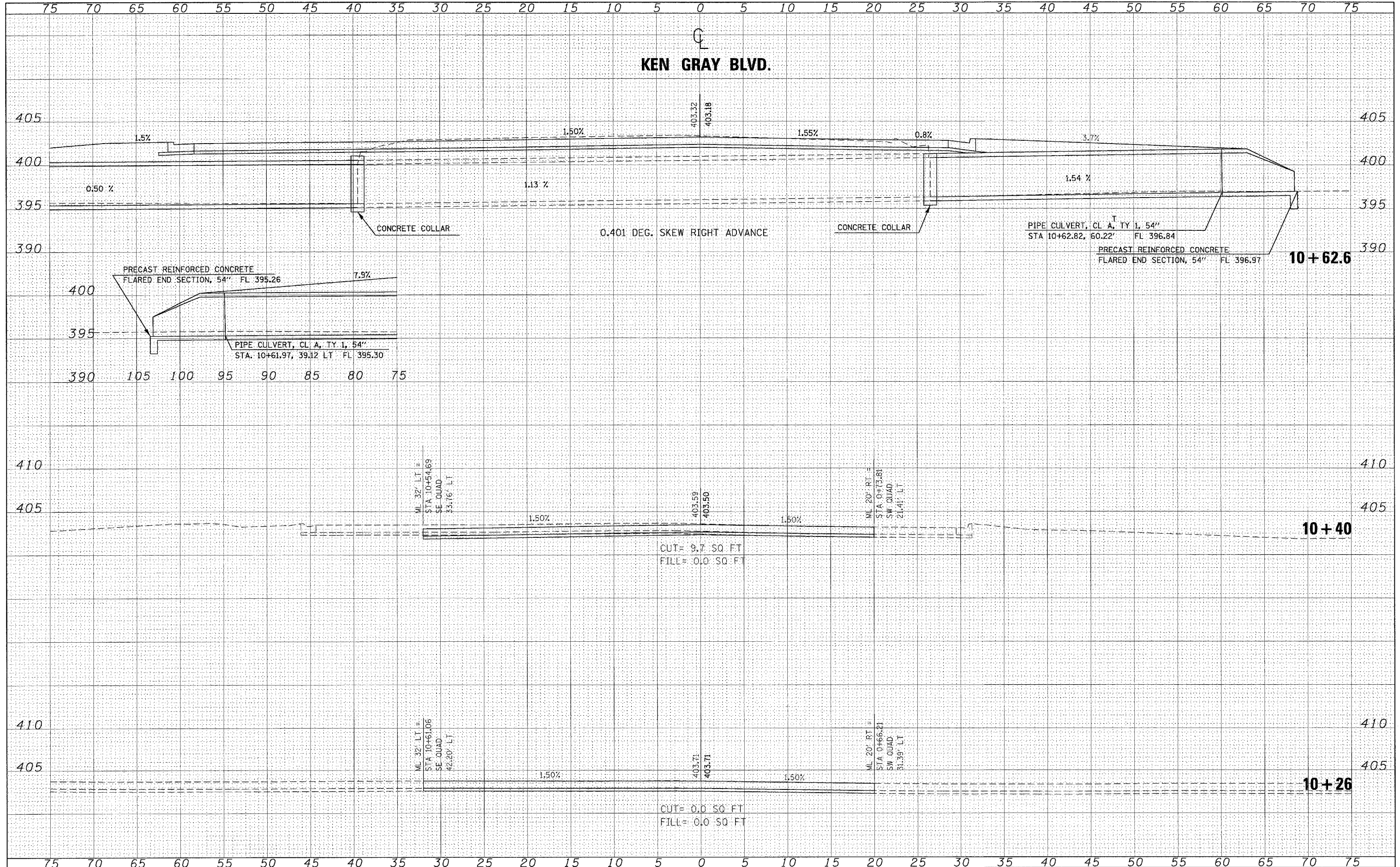
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DRAWN	6-15-89
REVISED	8-16-94
REVISED	
REVISED	

# KEN GRAY BLVD.

0.401 DEG. SKEW RIGHT ADVANCE

DATE	
BY	
FINAL SURVEY	
REVISIONS	
NOTED BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
REVISIONS	
NOTED BOOK	
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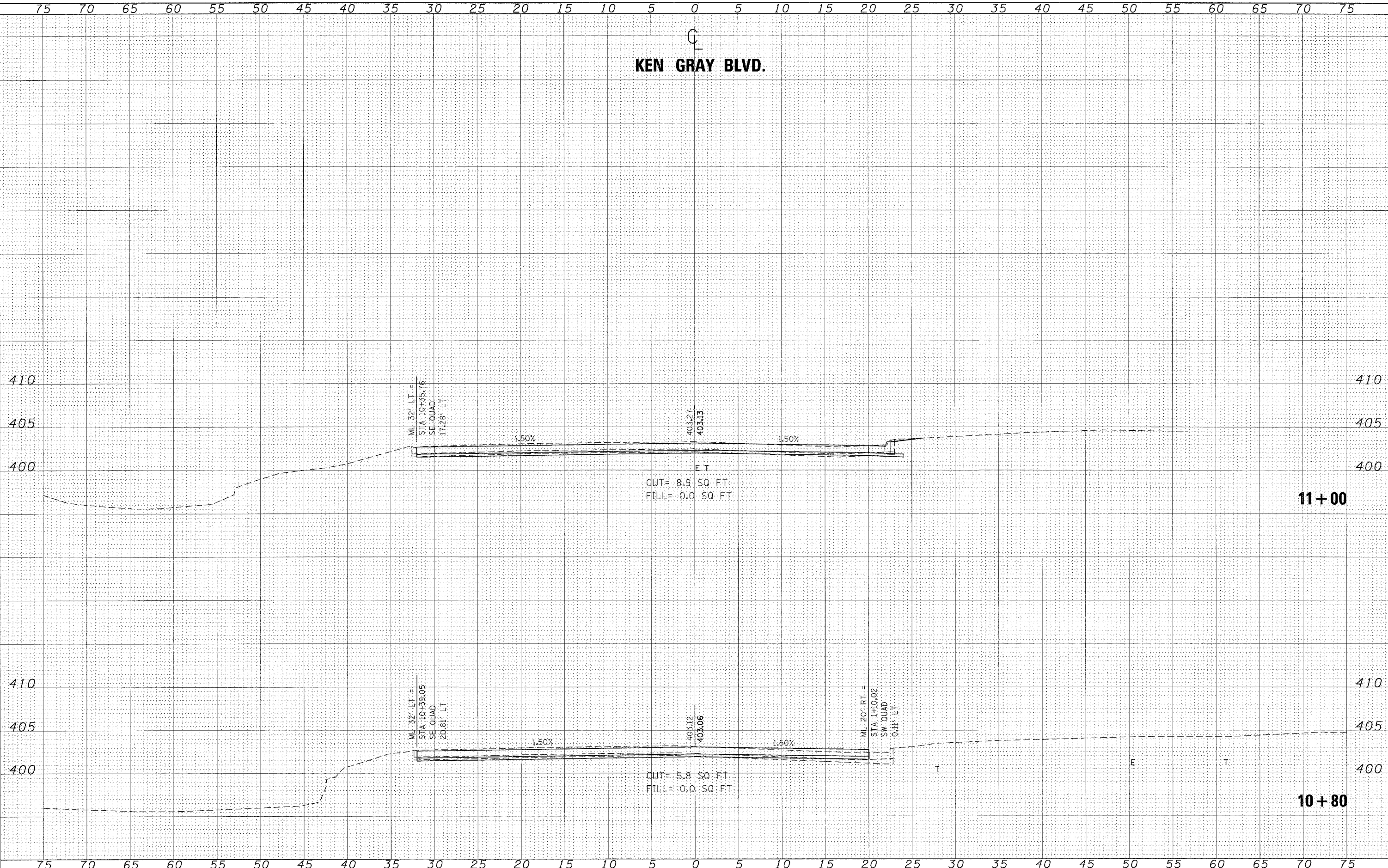
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - KEN GRAY BLVD.**

SCALE: SHEET NO. OF SHEETS STA. 10+26.0000 TO STA. 10+62.6000

F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
873	(28-5) TS-3, N-1	FRANKLIN	38	23
CONTRACT NO. 78055			ILLINOIS FED. AID PROJECT	

# KEN GRAY BLVD.



DATE	
BY	
SURVEYED	
PLOTTED	
NOTE BOOK	
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

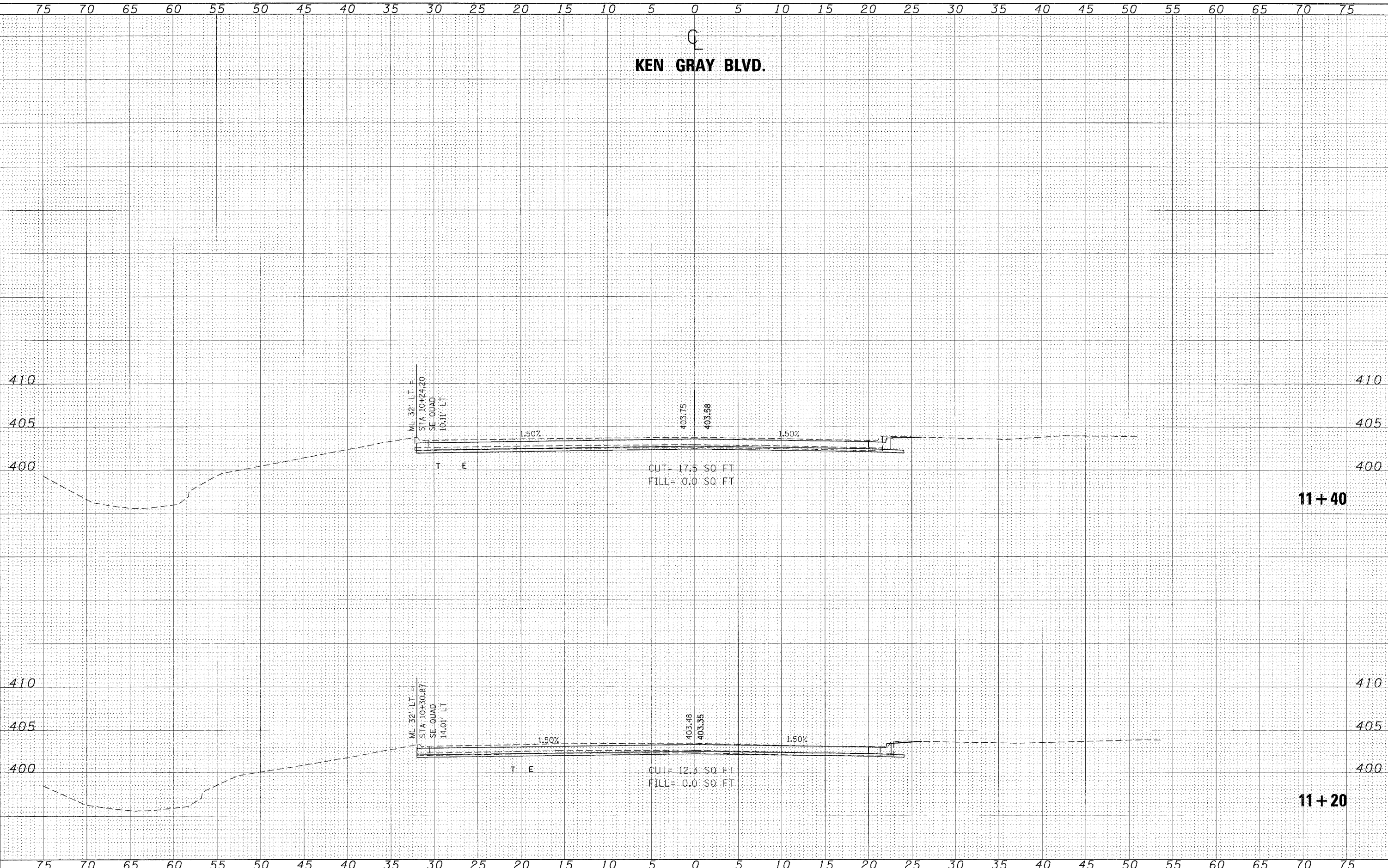
**CROSS SECTIONS - KEN GRAY BLVD.**

SCALE: SHEET NO. OF SHEETS STA. 10+80.0000 TO STA. 11+00.0000

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
873	(28-5) TS-3, N-1	FRANKLIN	38	24
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 78055	



# KEN GRAY BLVD.



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NOTE BOOK	
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

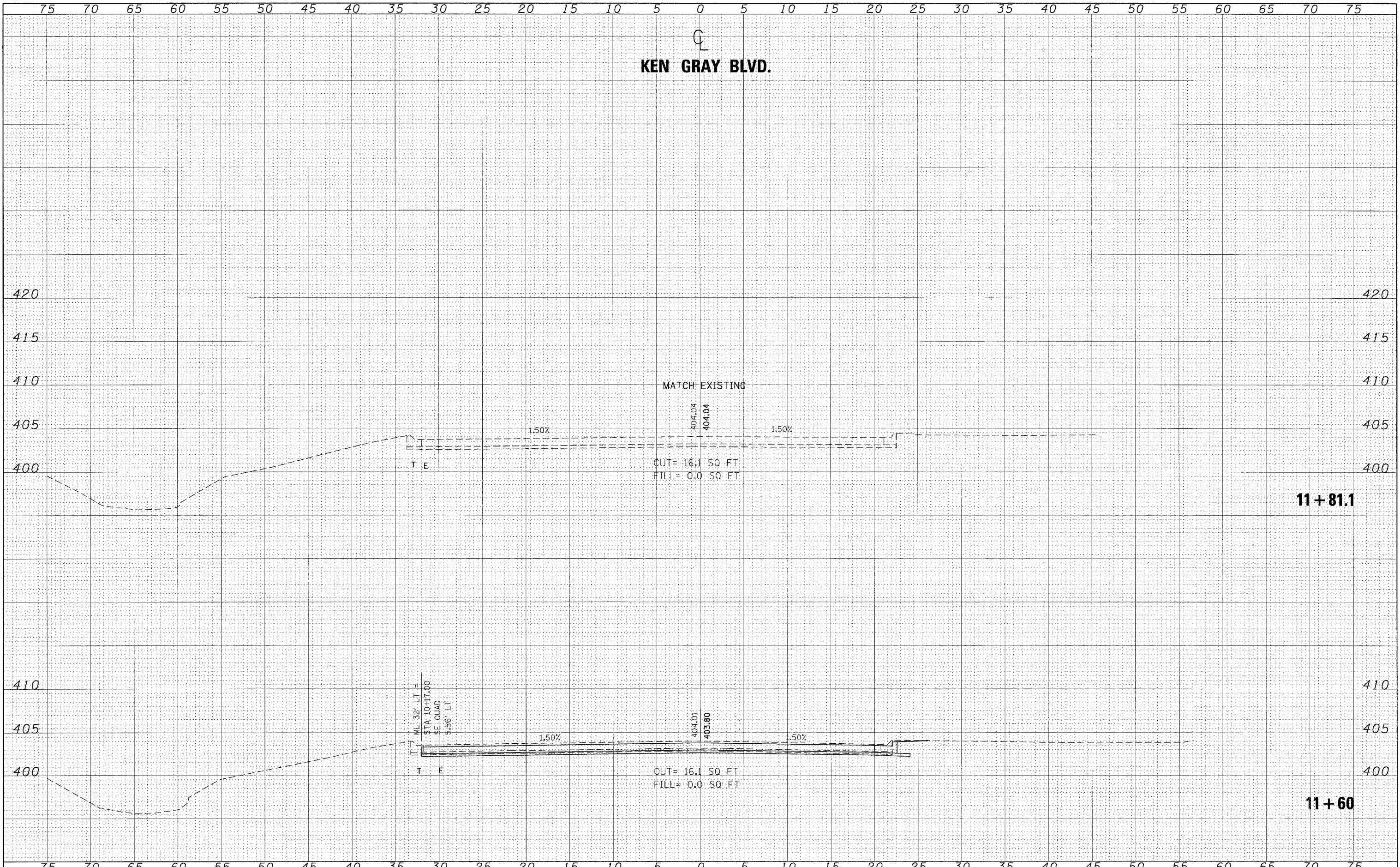
**CROSS SECTIONS - KEN GRAY BLVD.**

SCALE: SHEET NO. OF SHEETS STA. 11+20.0000 TO STA. 11+40.0000

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
873	(28-5) TS-3, N-1	FRANKLIN	38	25
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 78055	

FINAL SURVEY	SURVEYED	BY	DATE
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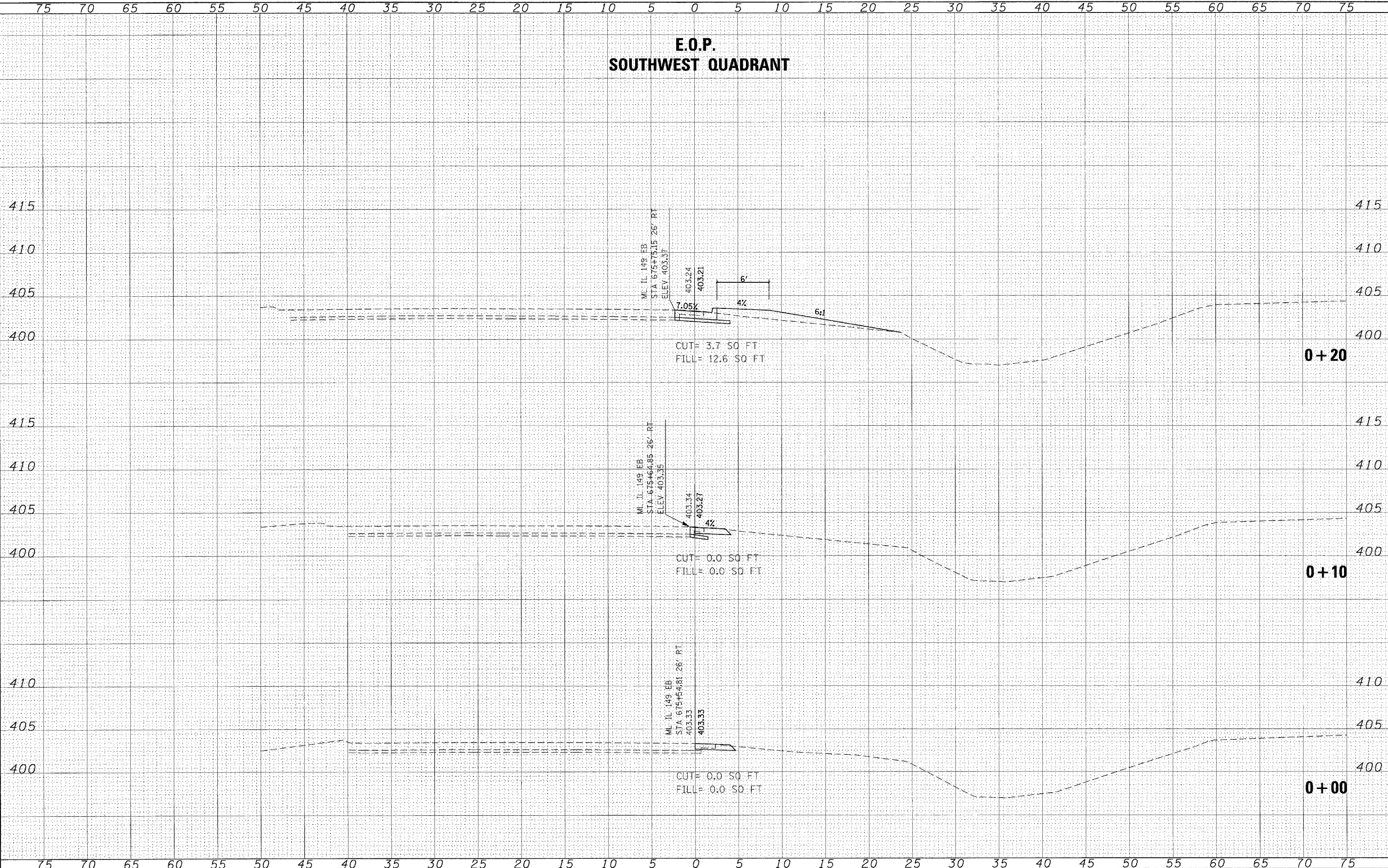
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - KEN GRAY BLVD.**

SCALE: SHEET NO. OF SHEETS STA. 11+60.0000 TO STA. 11+81.0000

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
873	(28-5) TS-3, N-1	FRANKLIN	38	26
CONTRACT NO. 78055				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

**E.O.P.  
SOUTHWEST QUADRANT**



DATE	
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FINAL SURVEY	
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NOTE BOOK	
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DATE	
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ORIGINAL SURVEY	
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NOTE BOOK	
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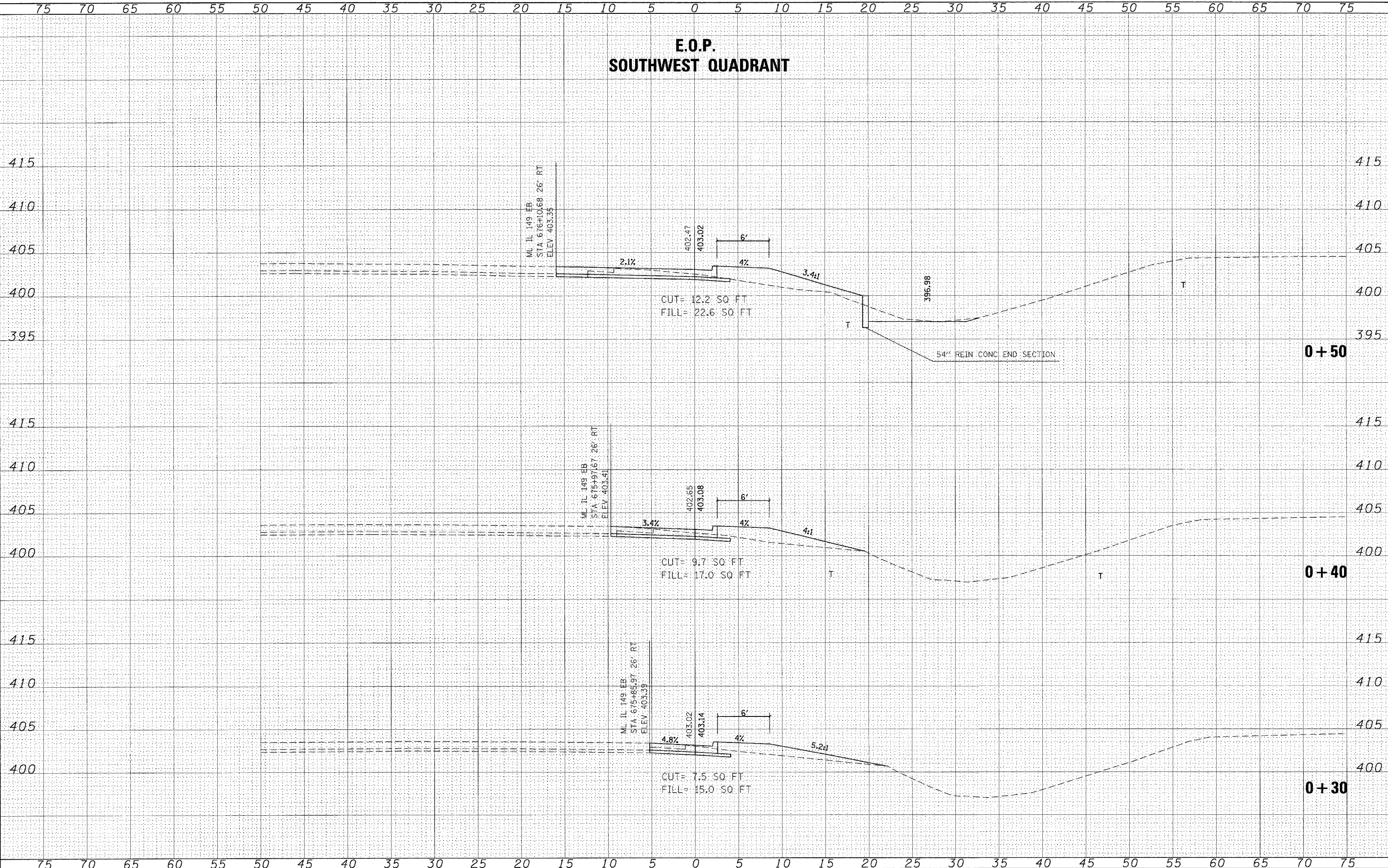
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - SOUTHWEST QUADRANT**

SCALE: SHEET NO. OF SHEETS STA. +00.0000 TO STA. +20.0000

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
873	(28-5)TS-3,N-1	FRANKLIN	38	27
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
	CONTRACT NO. 78055			

**E.O.P.  
SOUTHWEST QUADRANT**



DATE	
BY	
FINAL SURVEY	
NOTED	
NOTE BOOK	
AREAS CHECKED	

DATE	
BY	
ORIGINAL SURVEY	
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CHECKED -	REVISD -
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

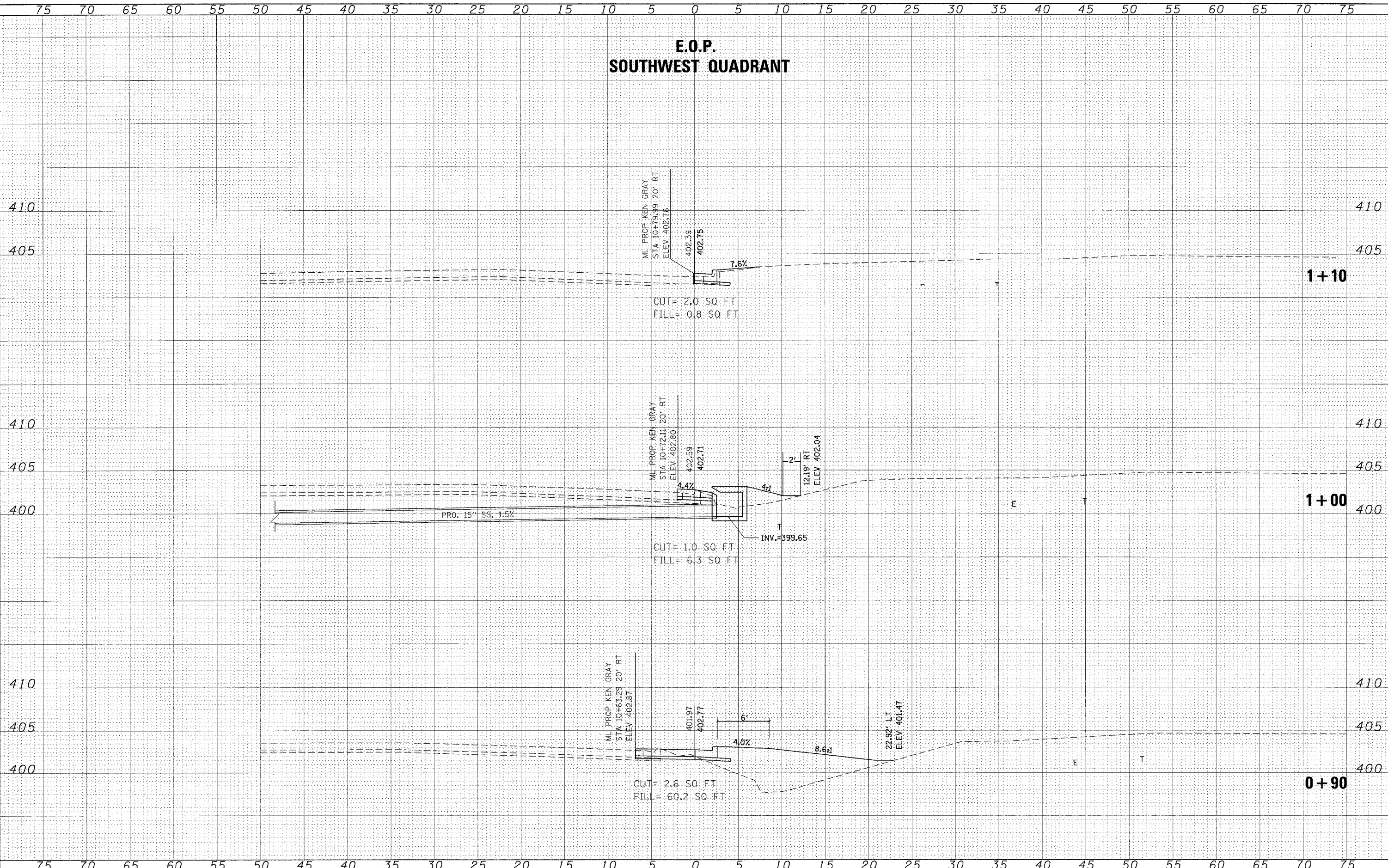
**CROSS SECTIONS - SOUTHWEST QUADRANT**

SCALE: SHEET NO. OF SHEETS STA. +30.0000 TO STA. +50.0000

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
873	(28-5)TS-3,N-1	FRANKLIN	38	28
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
	CONTRACT NO. 78055			



**E.O.P.  
SOUTHWEST QUADRANT**



DATE	
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FINAL SURVEY	
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DRAWN -  
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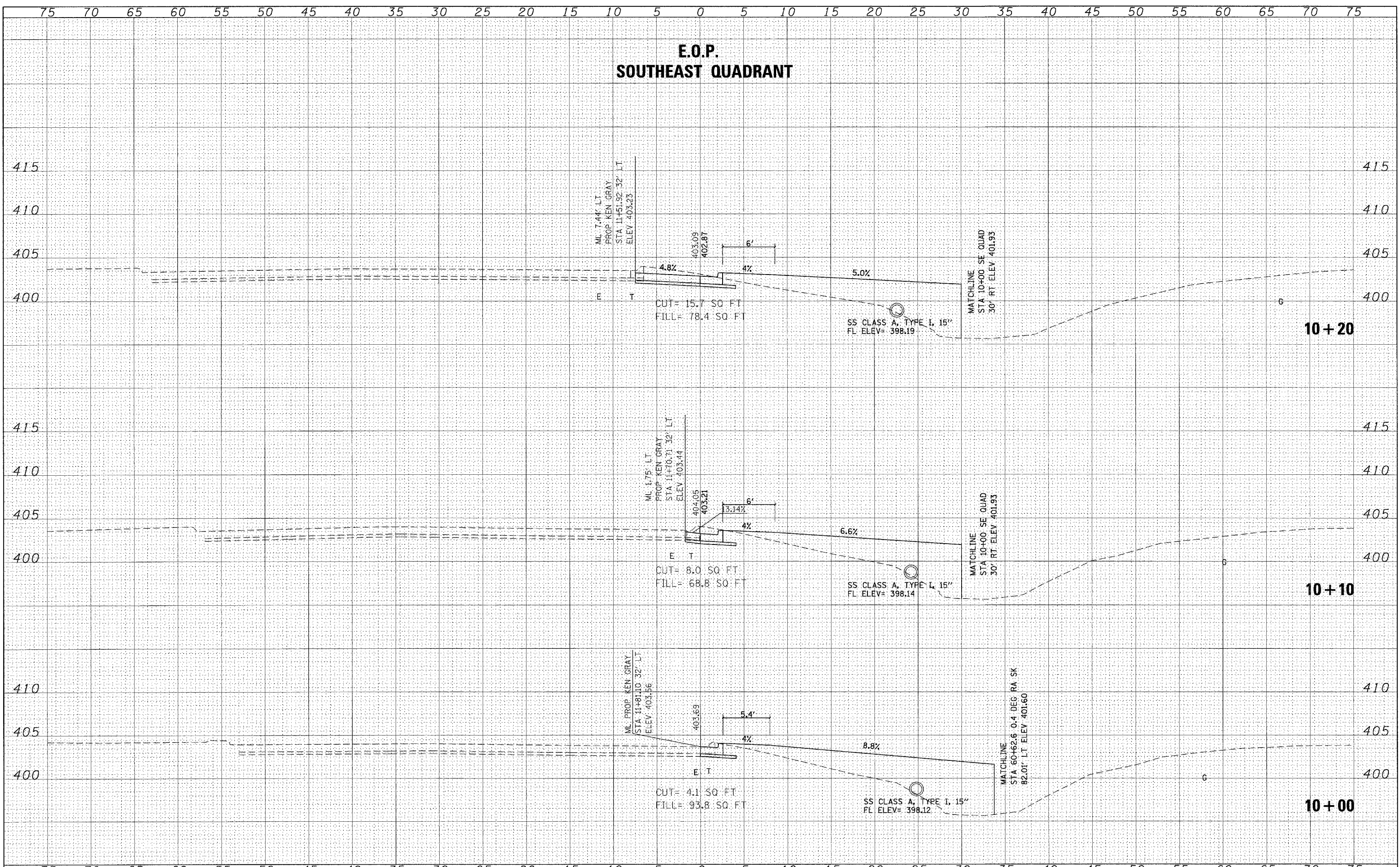
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - SOUTHWEST QUADRANT**

SCALE: SHEET NO. OF SHEETS STA. +90.0000 TO STA. 1+10.0000

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
873	(28-5)TS-3,N-1	FRANKLIN	38	30
CONTRACT NO. 78055			ILLINOIS FED. AID PROJECT	

# E.O.P. SOUTHEAST QUADRANT



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

ORIGINAL	SURVEYED	DATE
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NO.	AREAS CHECKED	

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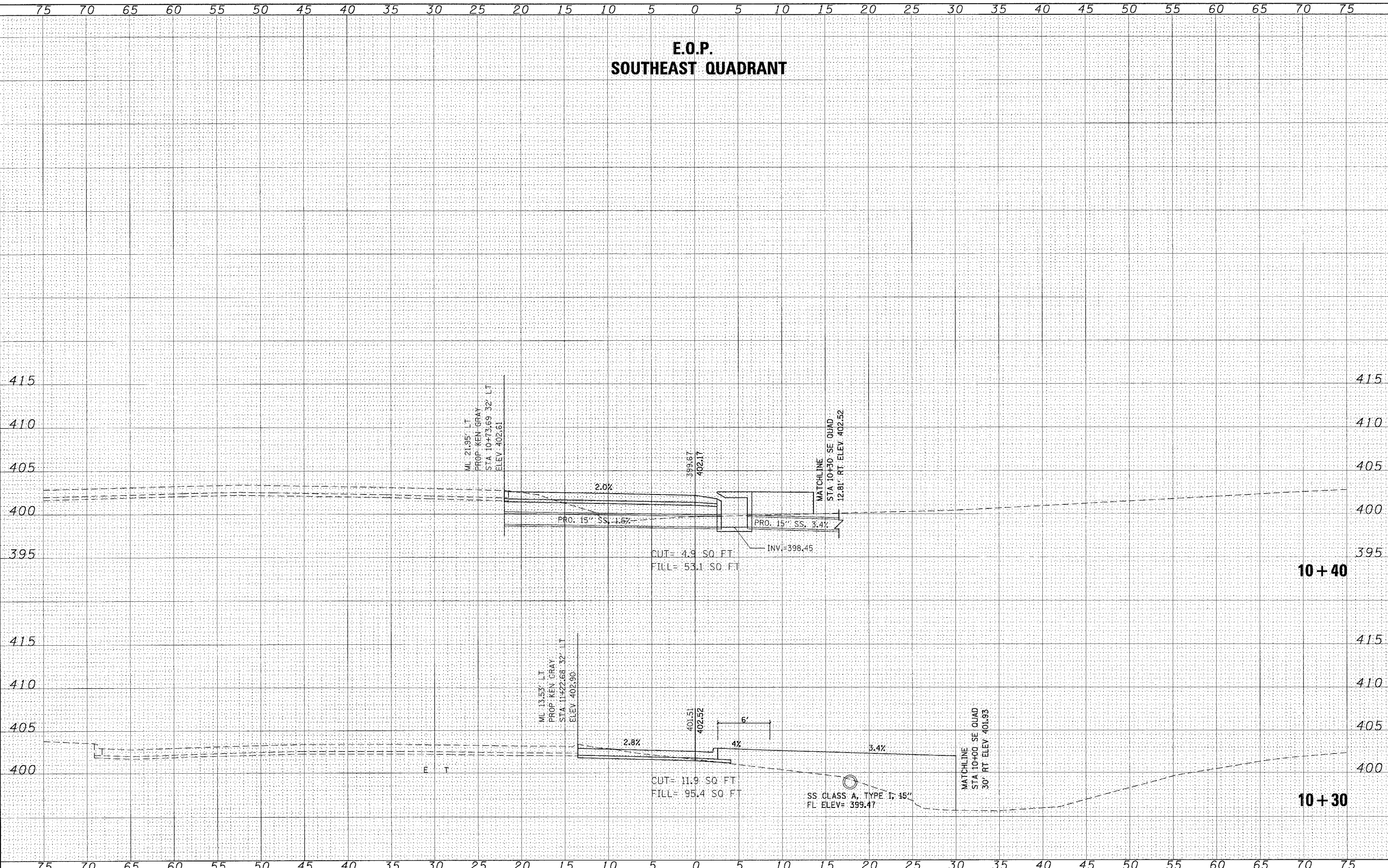
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTION - SOUTHEAST QUADRANT**

SCALE: SHEET NO. OF SHEETS STA. 10+00.0000 TO STA. 10+20.0000

F.A. RTE. 873	SECTION (28-5) TS-3, N-1	COUNTY FRANKLIN	TOTAL SHEETS 38	SHEET NO. 31
CONTRACT NO. 78055				
ILLINOIS FED. AID PROJECT				

**E.O.P.  
SOUTHEAST QUADRANT**



DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
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DATE	
BY	
ORIGINAL SURVEY	
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NOTE BOOK	
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 PLOT DATE = 3/18/2008

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

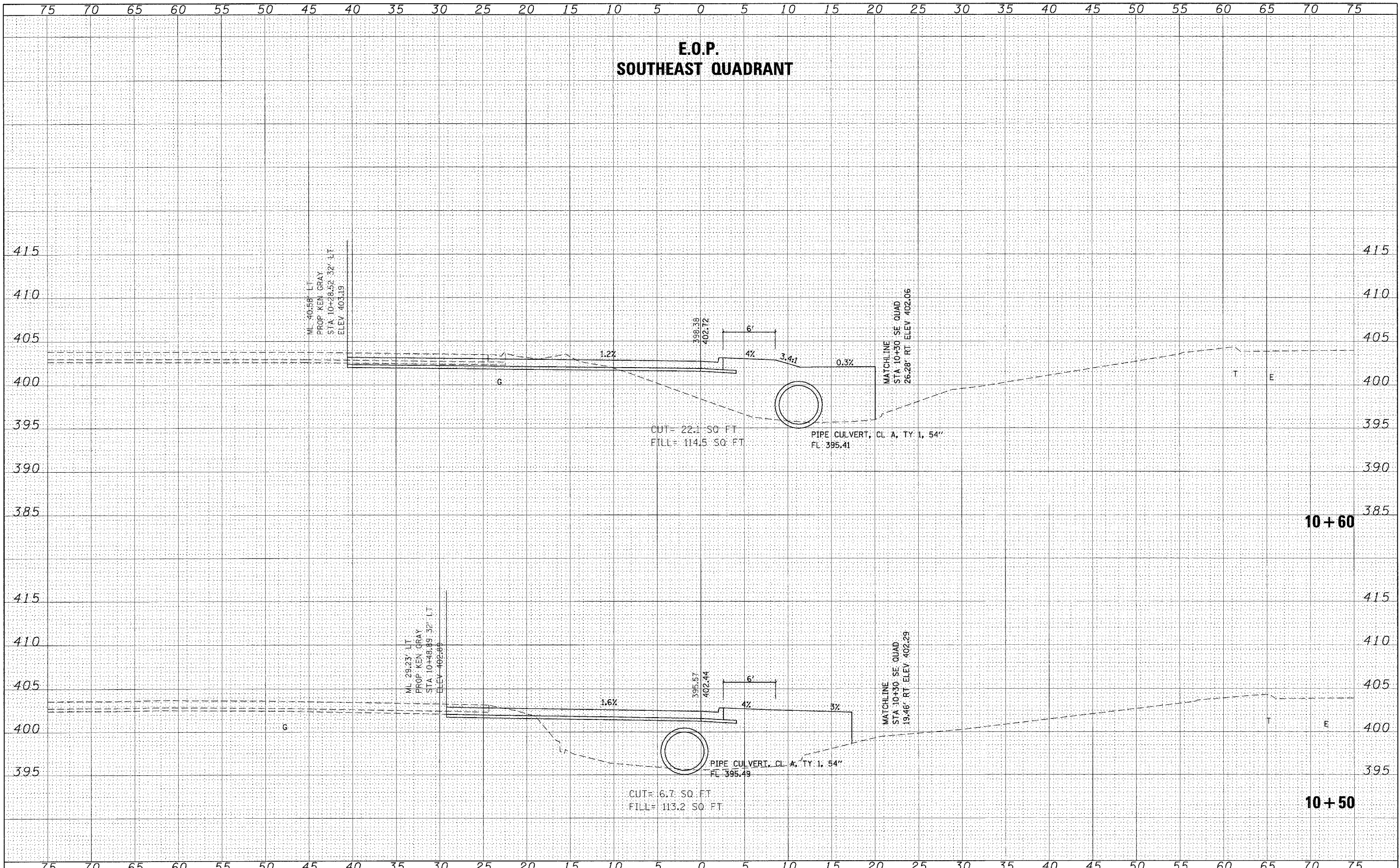
**CROSS SECTION - SOUTHEAST QUADRANT**

SCALE: SHEET NO. OF SHEETS STA. 10+30.0000 TO STA. 10+40.0000

F.A. RTE. 873	SECTION (28-5) TS-3, N-1	COUNTY FRANKLIN	TOTAL SHEETS 38	SHEET NO. 32
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 78055				



**E.O.P.  
SOUTHEAST QUADRANT**



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

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	DATE -	REVISED -

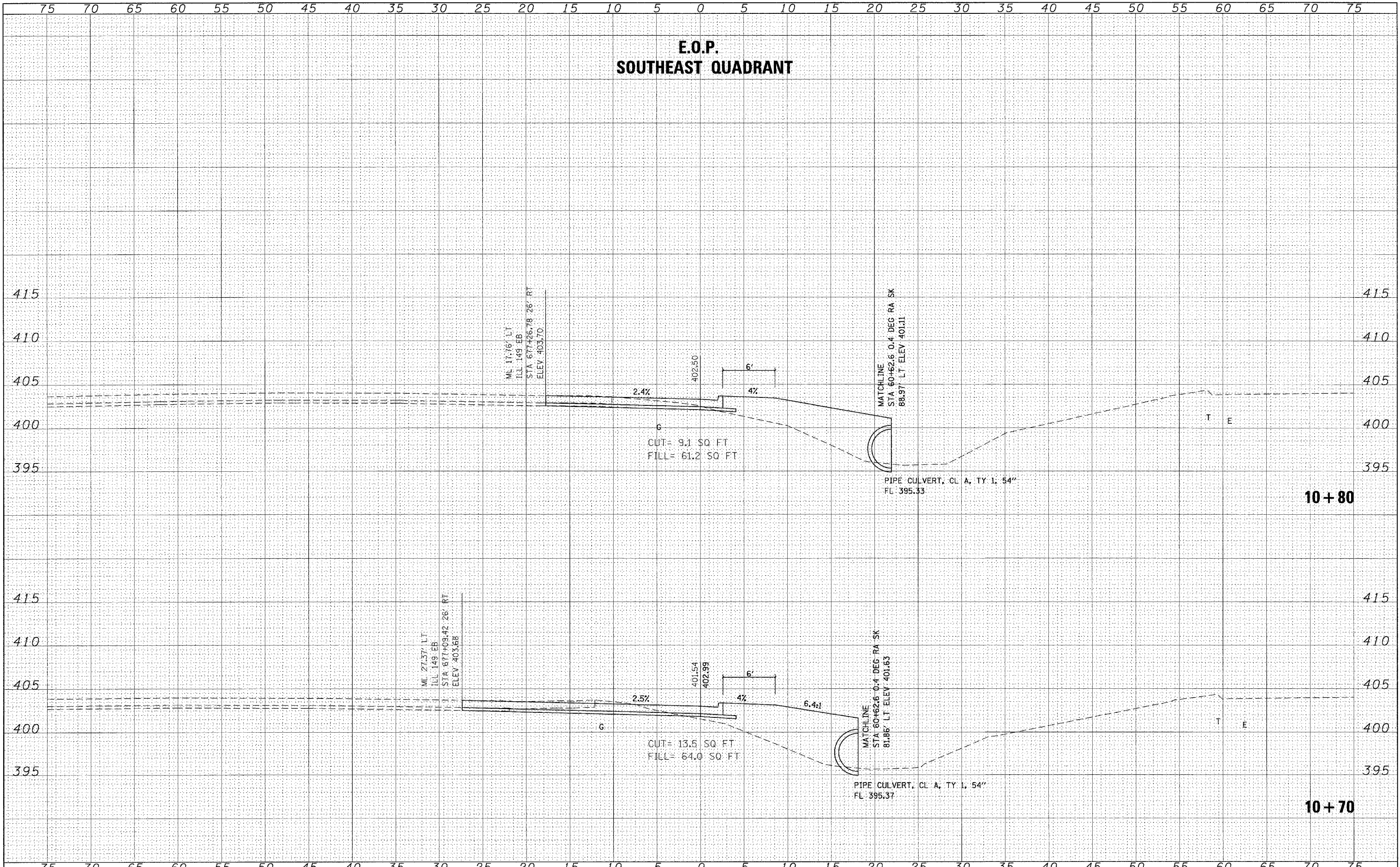
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTION - SOUTHEAST QUADRANT**

SCALE:	SHEET NO.	OF	SHEETS	STA. 10+50.0000 TO STA. 10+60.0000
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
875	(28-5) TS-3, N-1	FRANKLIN	38	33
CONTRACT NO. 78055				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

**E.O.P.  
SOUTHEAST QUADRANT**



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

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

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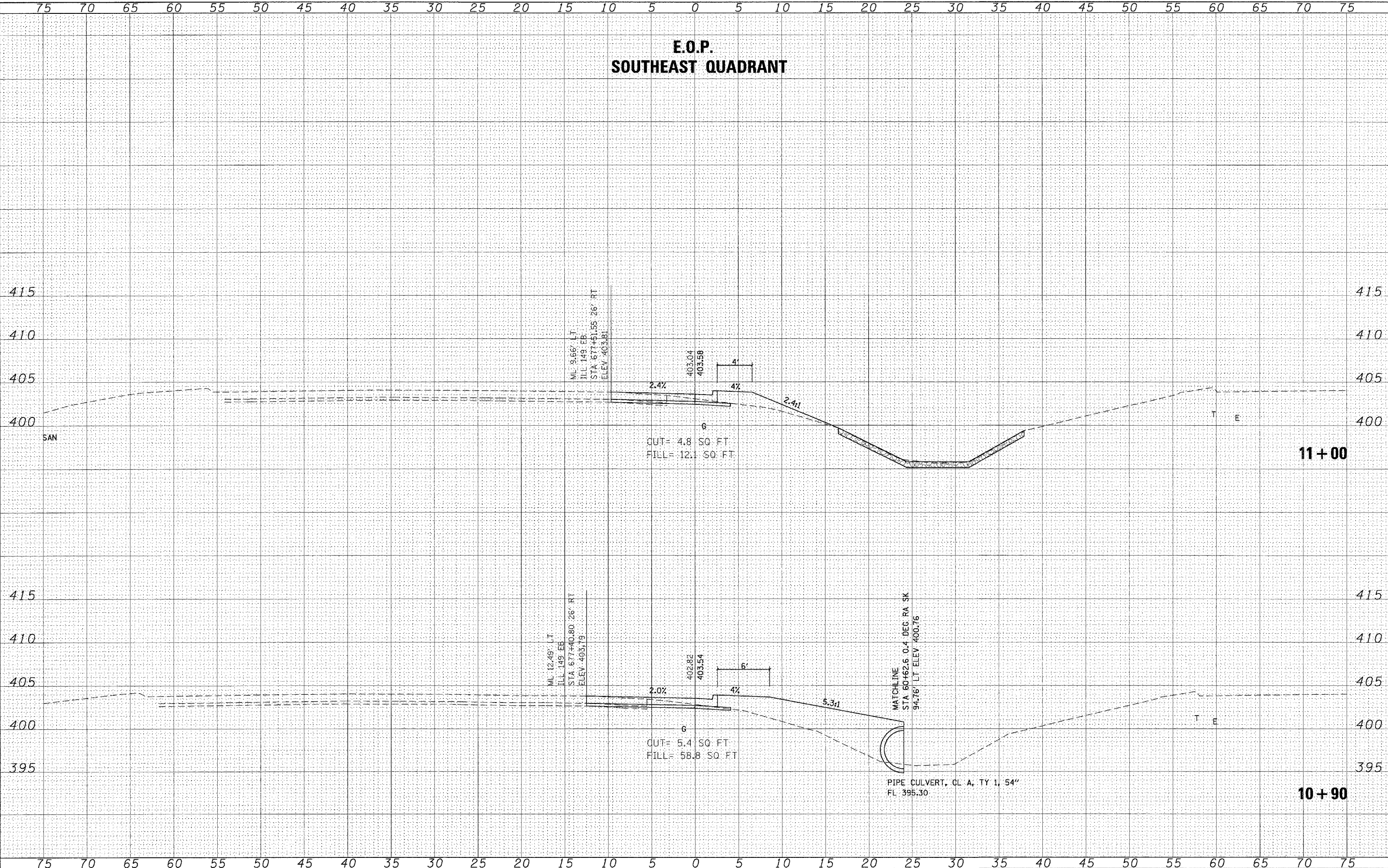
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTION - SOUTHEAST QUADRANT**

SCALE: SHEET NO. OF SHEETS STA. 10+70.0000 TO STA. 10+80.0000

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
873	(28-5) TS-3, N-1	FRANKLIN	38	34
CONTRACT NO. 78055				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

**E.O.P.  
SOUTHEAST QUADRANT**



FINL	SURVSD	BY	DATE
SURVEY	PLOTTD		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

ORIGINAL	SURVSD	BY	DATE
SURVEY	PLOTTD		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

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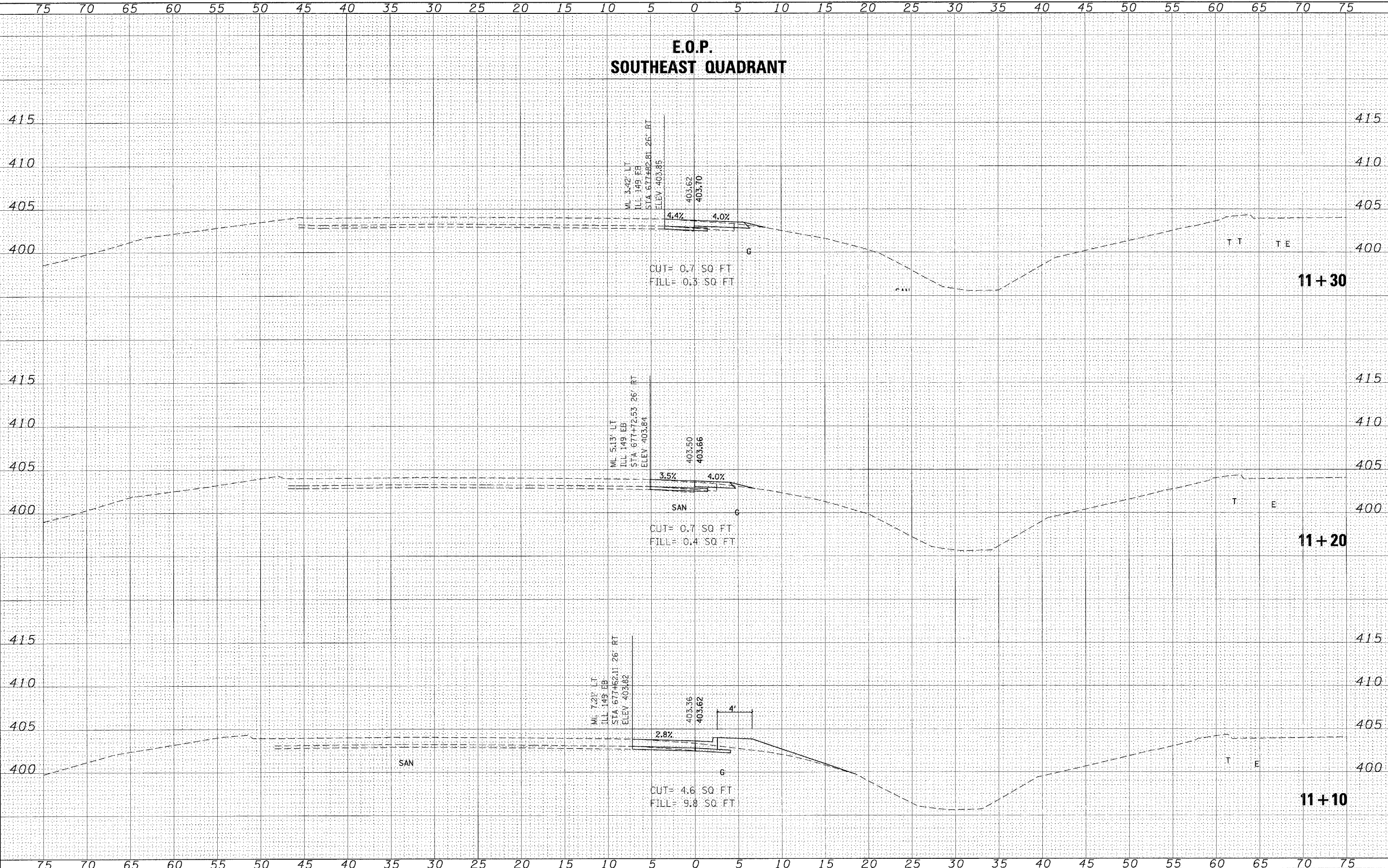
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTION - SOUTHEAST QUADRANT**

SCALE: SHEET NO. OF SHEETS STA. 10+90.0000 TO STA. 11+00.0000

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
873	(28-5) TS-3, N-1	FRANKLIN	38	35
CONTRACT NO. 78055			ILLINOIS FED. AID PROJECT	

# E.O.P. SOUTHEAST QUADRANT



DATE	
BY	
FINISHED SURVEY	
NOTED BOOK	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTED BOOK	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

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USER NAME = naesdp

PLOT SCALE = 5.0000" / IN.

PLOT DATE = 3/18/2008

DESIGNED -	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE -	REVISED -

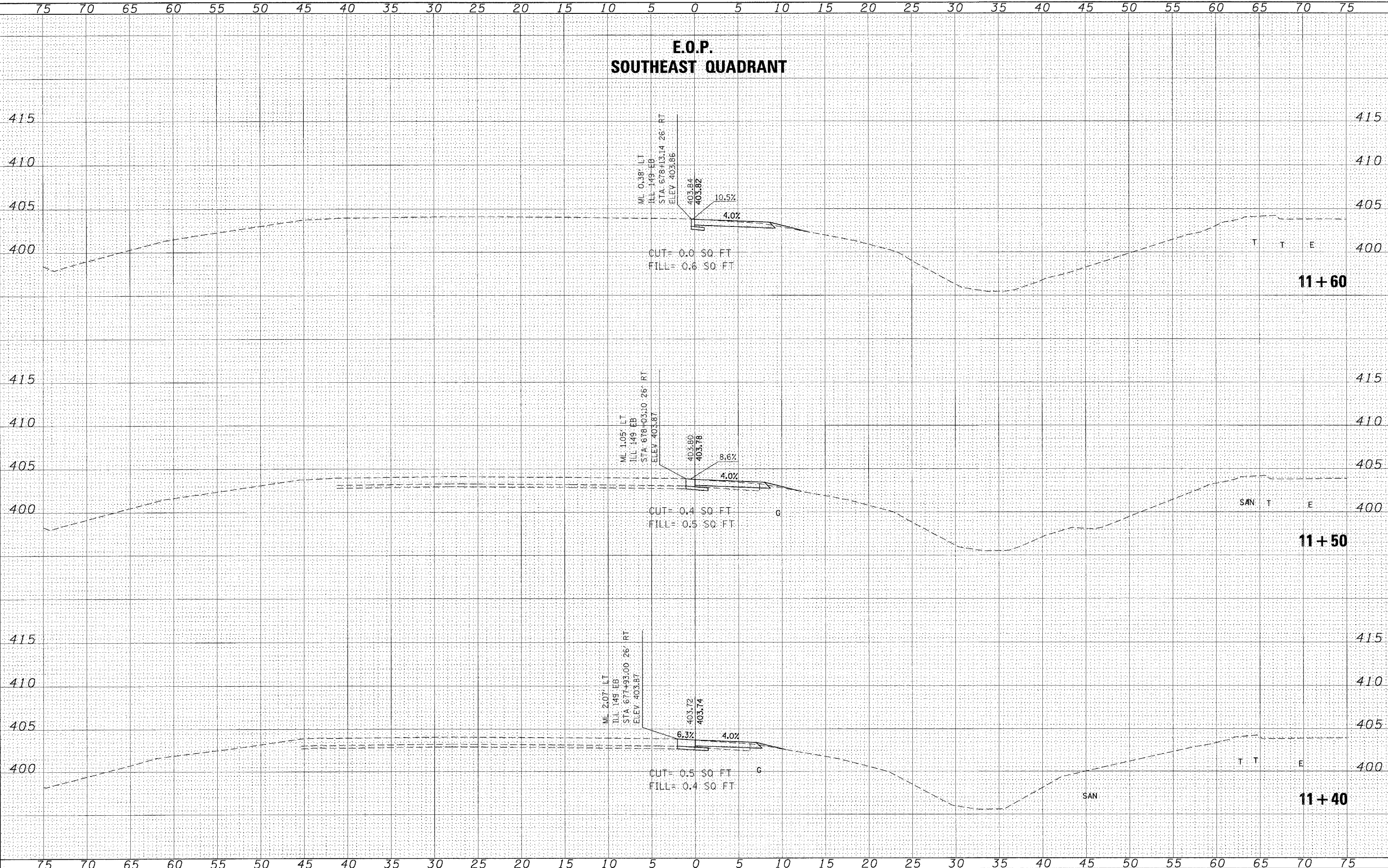
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTION - SOUTHEAST QUADRANT**

SCALE: SHEET NO. OF SHEETS STA. 11+0.0000 TO STA. 11+30.0000

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
873	(28-5) TS-3, N-1	FRANKLIN	38	36
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 78055		

**E.O.P.  
SOUTHEAST QUADRANT**



DATE	
BY	
FINISHED	
SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS	
CHECKED	
NO.	

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

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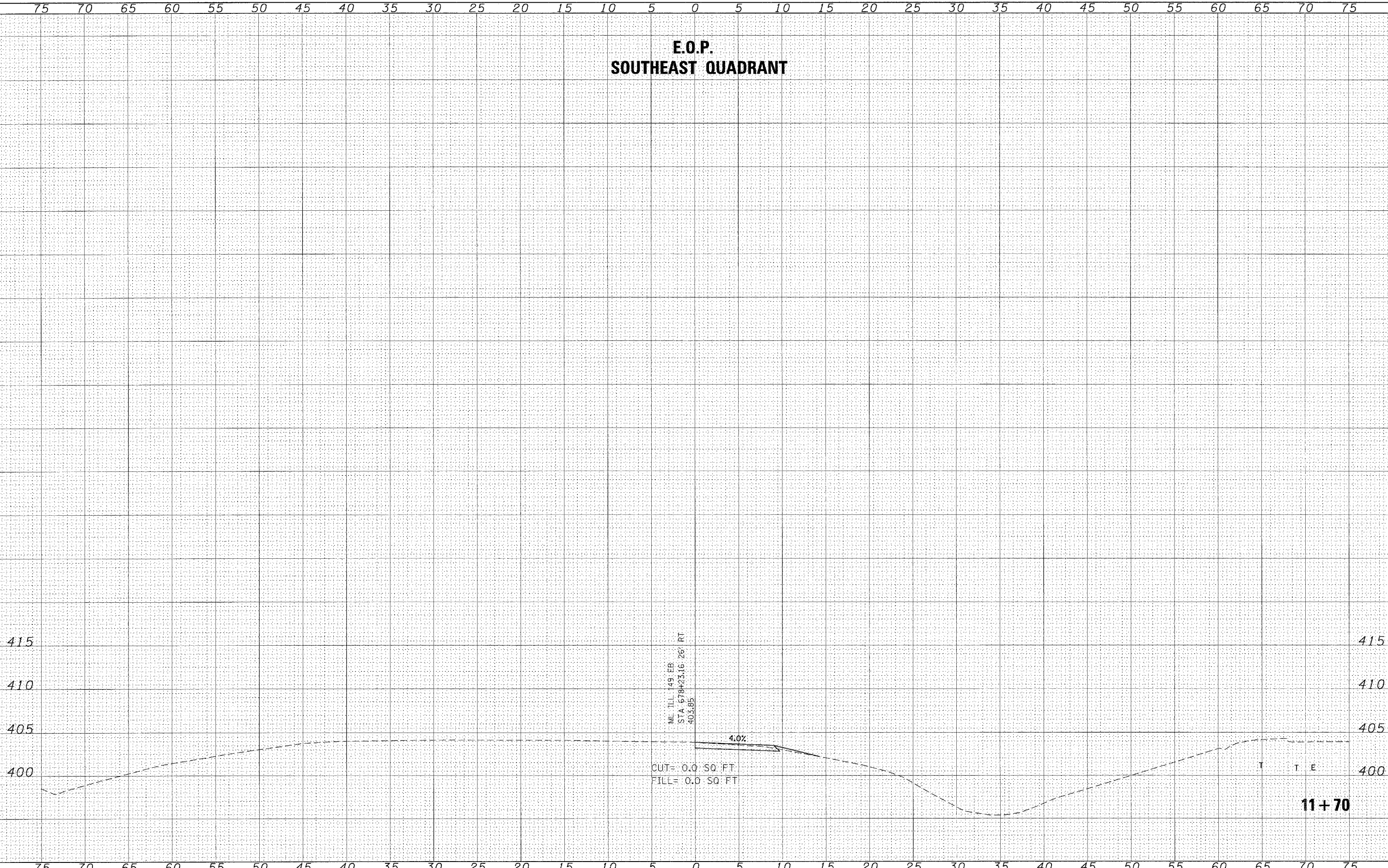
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	DRAWN -	REVISED -
PLOT SCALE = 5.0000' / IN.	CHECKED -	REVISED -
PLOT DATE = 3/18/2009	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTION - SOUTHEAST QUADRANT**  
SCALE: SHEET NO. OF SHEETS STA. 11+40.0000 TO STA. 11+60.0000

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
873	(28-5) TS-3, N-1	FRANKLIN	38	37
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 78055		

**E.O.P.  
SOUTHEAST QUADRANT**



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

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

FILE NAME = c:\projects\78055\78055\_sht\_xsht2.dgn

USER NAME = nnsdpc  
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 PLOT DATE = 3/18/2008

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTION - SOUTHEAST QUADRANT**

SCALE: SHEET NO. OF SHEETS STA. 11+70.0000 TO STA. 11+70.0000

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
873	(28-5) TS-3, N-1	FRANKLIN	38	38
CONTRACT NO. 78055			ILLINOIS FED. AID PROJECT	