06-17-11 LETTING ITEM 288

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82 *	1
	ILLINOIS	CONTRACT NO. 60K62		

*82 + 8 = 90

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

FAP ROUTE 338: IL ROUTE 59
AT US ROUTE 20
SECTION: 7 HB-K-N
PROJECT: CMF-0338(043)
CHANNELIZATION
COOK COUNTY

C-91-536-10

FOR INDEX OF SHEETS, SEE SHEET NO. 2

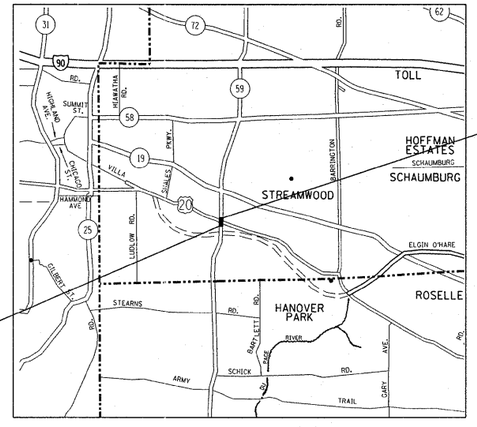
PROJECT IS LOCATED IN THE VILLAGES OF STREAMWOOD AND BARTLETT.

D-91-536-10

LOCATION OF SECTION INDICATED THUS:- ■

R9E

T41N



PROJECT BEGINS STATION 90+25

PROJECT ENDS STATION 111+56

HANOVER TOWNSHIP

TRAFFIC DATA

SPEED LIMIT = 45 MPH
2009 ADT = 44,200

100' 200' 300' — 1" = 100'
0 10' 20' 30' — 1" = 10'
0 50' 100' — 1" = 50'
0 50' 100' — 1" = 40'
0 50' 100' — 1" = 30'
0 50' 100' — 1" = 20'

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED February 18 20 11
Diane M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
May 13 20 11
Scott E. Stitt, P.E. /a
acting ENGINEER OF DESIGN AND ENVIRONMENT
May 13 20 11
Christine M. Reed /a
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PROJECT ENGINEER: DAN WILGREEN (847) 705-4240
PROJECT MANAGER: KEN ENG

CONTRACT NO. 60K62

GROSS AND NET LENGTH OF PROJECT = 2,131 LF = 0.40 MILES

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INDEX OF SHEETS

STATE STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	TYPICAL SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
420001-07	PAVEMENT JOINTS
442101-03	CLASS B PATCHES
483001-04	PCC SHOULDER
542601-03	REINFORCED CONCRETE PIPE ELBOW 24", 30" OR 36"
601001-04	SUB-SURFACE DRAINS
601101-01	CONCRETE HEADWALL FOR PIPE DRAIN
602001-02	CATCH BASIN TYPE A
602301-03	INLET TYPE A
602601-02	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
604036-02	GRATE TYPE 8
604091-02	FRAME AND GRATE TYPE 24
606001-04	CONCRETE CURB AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
701101-02	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701426-04	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER, FOR SPEEDS ≥ 45 MPH
701602-05	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-07	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-07	TYPICAL LAYOUT FOR DETECTION LOOPS
701901-01	TRAFFIC CONTROL DEVICES
886001-01	DETECTOR LOOP INSTALLATION
886006-01	TYPICAL LAYOUT FOR DETECTION LOOPS

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED)

THE CONTRACTOR WILL NOT BE ABLE TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGES OF BARTLETT AND STREAMWOOD.

THIS PROJECT WILL REQUIRE A 404 PERMIT. ALL TERMS AND CONDITIONS OF THE ARMY CORPS OF ENGINEERS' REGIONAL PERMIT SHALL APPLY.

PRIOR TO EMBANKMENT PLACEMENT, ALL VEGETATION, LOOSE MATERIAL, AND UNSTABLE MATERIAL SHOULD BE REMOVED TO DEPTH ENCOUNTERED AND REPLACED WITH SUITABLE EMBANKMENT MATERIAL. ANY EMBANKMENT WIDENING ON EXISTING SLOPES SHOULD BE BENCHED IN ACCORDANCE WITH ARTICLE 205.04 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

COMED WIRES ARE NOT INSULATED AND EXTRA CAUTION AND VIGILANCE MUST BE ADHERED TO WHEN WORKING AROUND THEM. CONTRACTORS SHOULD ALWAYS USE CAUTION IN OPERATING CRANES AND OR OTHER EQUIPMENT NEAR OVERHEAD ELECTRICAL FACILITIES. THE OCCUPATIONAL HEALTH AND SAFETY ORGANIZATION (OSHA) RULES REQUIRE THAT WORKERS AND EQUIPMENT SHALL NOT APPROACH WITHIN TEN (10) FEET AWAY OF OVERHEAD ELECTRICAL EQUIPMENT WITHOUT APPROPRIATE SUPPLEMENTAL PROTECTION. PLEASE BE CERTAIN THAT ALL WORKERS ON THIS PROJECT HAVE BEEN FULLY TRAINED AND CONFORM TO OSHA RULES AND OTHER APPLICABLE GUIDELINES REGARDING WORKING SAFELY AROUND ELECTRICAL POWER LINES.

WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISABILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SNOWN IN THE PLANS.

THE RESIDENT ENGINEER SHALL CONTACT MR. DON CHIARUGI, AREA TRAFFIC FIELD ENGINEER, AT (847) 741-9857 A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF FINAL PAVEMENT MARKINGS.

THE CONTRACTOR SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

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	PLOT DATE = 3/16/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 59 AT US ROUTE 20
INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	2
		CONTRACT NO. 60K62		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	URBAN 80% FED. 20% STATE TOTAL QUANTITIES	CONSTRUCTION TYPE CODE: ROADWAY 0004	0021 SIGNAL	0021 LIGHTING			
20200100	EARTH EXCAVATION	CU YD	1125	1125					
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	570	570					
20400800	FURNISHED EXCAVATION	CU YD	320	320					
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	4020	4020					
25000210	SEEDING, CLASS 2A	ACRE	1	1					
25000310	SEEDING, CLASS 4	ACRE	0.2	0.2					
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	90	90					
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	90	90					
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	90	90					
25100630	EROSION CONTROL BLANKET	SQ YD	4020	4020					
25100900	TURF REINFORCEMENT MAT	SQ YD	725	725					
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100	100					
28000305	TEMPORARY DITCH CHECKS	FOOT	500	500					
28000400	PERIMETER EROSION BARRIER	FOOT	3000	3000					
28000510	INLET FILTERS	EACH	40	40					
31200502	STABILIZED SUBBASE - HOT-MIX ASPHALT, 4 1/2"	SQ YD	500	500					
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	20	20					
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	3	3					
42000501	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	SQ YD	2000	2000					
42001300	PROTECTIVE COAT	SQ YD	8000	8000					
44000100	PAVEMENT REMOVAL	SQ YD	330	330					
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1000	1000					
44003100	MEDIAN REMOVAL	SQ FT	13,275	13,275					
44004250	PAVED SHOULDER REMOVAL	SQ YD	60	60					
44200970	CLASS B PATCHES, TYPE II, 10 INCH	SQ YD	8	8					
44201299	DOWEL BARS 1 1/2"	EACH	20	20					
44213200	SAW CUTS	FOOT	54	54					
48300300	PORTLAND CEMENT CONCRETE SHOULDERS 8"	SQ YD	60	60					
50104400	CONCRETE HEADWALL REMOVAL	EACH	1	1					
50105220	PIPE CULVERT REMOVAL	FOOT	70	70					
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	3	3					
~~54213660~~	~~PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"~~	~~EACH~~	~~1~~	~~1~~					
~~54213663~~	~~PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"~~	~~EACH~~	~~1~~	~~1~~					

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	URBAN 80% FED. 20% STATE TOTAL QUANTITIES	CONSTRUCTION TYPE CODE: ROADWAY 0004	0021 SIGNAL	0021 LIGHTING			
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	2	2					
542A1053	PIPE CULVERTS, CLASS A, TYPE 2 8"	FOOT	12	12					
542A1057	PIPE CULVERTS, CLASS A, TYPE 2 12"	FOOT	170	170					
~~542A1060~~	~~PIPE CULVERTS, CLASS A, TYPE 2 15"~~	~~FOOT~~	~~100~~	~~100~~					
~~542A1063~~	~~PIPE CULVERTS, CLASS A, TYPE 2 18"~~	~~FOOT~~	~~20~~	~~20~~					
542A1069	PIPE CULVERTS, CLASS A, TYPE 2 24"	FOOT	30	30					
542A1903	PIPE CULVERTS, CLASS A, TYPE 3 18"	FOOT	120	120					
542A1921	PIPE CULVERTS, CLASS A, TYPE 3 36"	FOOT	10	10					
60100060	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	3	3					
60107600	PIPE UNDERDRAINS 4"	FOOT	1000	1000					
60108100	PIPE UNDERDRAINS 4" (SPECIAL)	FOOT	50	50					
60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	2	2					
60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	EACH	6	6					
60204505	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 8 GRATE	EACH	1	1					
~~60218400~~	~~MANHOLES, TYPE A, 4' DIAMETER, TYPE 1 FRAME, CLOSED LID~~	~~EACH~~	~~1~~	~~1~~					
60250200	CATCH BASINS TO BE ADJUSTED	EACH	2	2					
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	2	2					
60500050	REMOVING CATCH BASINS	EACH	1	1					
60500060	REMOVING INLETS	EACH	1	1					
60500080	REMOVING CATCH BASINS TO MAINTAIN FLOW	EACH	6	6					
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	1000	1000					
60618740	CONCRETE MEDIAN, TYPE M-2.12	SQ FT	1800	1800					
60619600	CONCRETE MEDIAN, TYPE SB-6.12	SQ FT	2200	2200					
60622800	CONCRETE MEDIAN, TYPE SM-6.12	SQ FT	1800	1800					
67100100	MOBILIZATION	L SUM	1	1					
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	1					
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1					
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	30	30					
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	750	750					
* 72400730	RELOCATE SIGN PANEL - TYPE 3	SQ FT	150	150					
* 73400100	CONCRETE FOUNDATIONS	CU YD	10	10					
* 73502000	RELOCATE GROUND MOUNTED SIGN SUPPORT	EACH	4	4					

* SPECIALTY ITEMS

Rev.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 59 AT US ROUTE 20
SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	3

CONTRACT NO. 60K62

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

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SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	URBAN 80% FED. 20% STATE TOTAL QUANTITIES	CONSTRUCTION TYPE CODE: ROADWAY 0004	0021 SIGNAL	0021 LIGHTING			
*73700200	REMOVE CONCRETE FOUNDATION - GROUND MOUNT	EACH	4	4					
*78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SQ FT	610	610					
*78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	1450	1450					
*78008270	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	200	200					
*78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	20	20					
*81000600	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	770		770				
*81000700	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL	FOOT	60		60				
*81018600	CONDUIT PUSHED, 2 1/2" DIA., GALVANIZED STEEL	FOOT	500			500			
*81018900	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL	FOOT	153		153				
*81400100	HANDHOLE	EACH	3		3				
*81603090	UNIT DUCT, 600V, 3-1C NO. 4, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	2675			2675			
*81800300	AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE	FOOT	1700			1700			
*81900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	3021		846	2175			
*83600200	LIGHT POLE FOUNDATION, 24" DIAMETER	FOOT	120			120			
*84100110	REMOVAL OF TEMPORARY LIGHTING UNIT	EACH	7			7			
*84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	7			7			
*85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2		2				
*87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	980		980				
*87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	675		675				
*87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	285		285				
*87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	2		2				
*87800100	CONCRETE FOUNDATION, TYPE A	FOOT	8		8				
*87900200	DRILL EXISTING HANDHOLE	EACH	4		4				
*88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	4		4				
*88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6		6				
*88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	4		4				
*88030210	SIGNAL HEAD, LED, 2-FACE, 3-SECTION, BRACKET MOUNTED	EACH	2		2				

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	URBAN 80% FED. 20% STATE TOTAL QUANTITIES	CONSTRUCTION TYPE CODE: ROADWAY 0004	0021 SIGNAL	0021 LIGHTING			
*88030220	SIGNAL HEAD, LED, 2-FACE, 5-SECTION, BRACKET MOUNTED	EACH	2		2				
*88200210	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM	EACH	8		8				
*88600100	DETECTOR LOOP, TYPE I	FOOT	240		240				
*89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	340		340				
*89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	3976		3976				
*89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2		2				
*89502380	REMOVE EXISTING HANDHOLE	EACH	4		4				
*89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	2		2				
*X0322054	REMOVAL OF PRECAST FLARED END SECTION	EACH	2	2					
*X0326148	TEMPORARY WOOD POLE, 60 FT., CLASS 4, 15 FT. MAST ARM	EACH	7			7			
X0504200	CONCRETE HEADWALL	EACH	1	1					
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1					
~~X7030030~~	~~WET REFLECTIVE TEMPORARY TAPE TYPE III, 4 INCH~~	~~FOOT~~	~~3000~~	~~3000~~					
*X8210015	TEMPORARY LUMINAIRE, HIGH PRESSURE SODIUM VAPOR, 400 WATT	EACH	7			7			
* 86200120	UNINTERRUPTIBLE POWER SUPPLY	EACH	2		2				
Z0001050	AGGREGATE SUBGRADE 12"	SQ YD	1625	1625					
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1					
~~Z0018913~~	~~DRILL AND GROUT #8 TIE BARS~~	~~EACH~~	~~1500~~	~~1500~~					
Z0023202	SEDIMENT CONTROL, DRAINAGE STRUCTURE INLET FILTER CLEANING	EACH	40	40					
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	52	52					
*Z0033028	MAINTENANCE OF LIGHTING SYSTEM	CAL MO	3			3			
*Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	2		2				
*Z0073510	TEMPORARY TRAFFIC SIGNAL TIMING	EACH	2		2				

* SPECIALTY ITEMS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 59 AT US ROUTE 20
SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	32	4
		CONTRACT NO. 60K62		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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SUMMARY OF QUANTITIES

URBAN 80% FED. 20% STATE

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE: ROADWAY 0004	0021 SIGNAL	0021 LIGHTING			
20800150	TRENCH BACKFILL	CU YD	65	65					
28100105	STONE RIPRAP, CLASS A3	SQ YD	55	55					
28200200	FILTER FABRIC	SQ YD	1000	1000					
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	EACH	1	1					
54215991	REINFORCED CONCRETE PIPE ELBOW 36"	EACH	1	1					
54247090	GRATING FOR CONCRETE FLARED END SECTION 12"	EACH	3	3					
54247130	GRATING FOR CONCRETE FLARED END SECTION 24"	EACH	2	2					
54247170	GRATING FOR CONCRETE FLARED END SECTION 36"	EACH	1	1					
542A1072	PIPE CULVERTS, CLASS A, TYPE 2 27"	FOOT	10	10					
542A1081	PIPE CULVERTS, CLASS A, TYPE 2 36"	FOOT	85	85					
60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	EACH	1	1					
60255500	MANHOLES TO BE ADJUSTED	EACH	5	5					
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	3	3					
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	3	3					
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1					
X0325880	COARSE AGGREGATE CA-7	TON	350	350					
X7030030	WET REFLECTIVE TEMPORARY TAPE, TYPE III, 4 INCH	FOOT	3000	3000					
Z0018911	DRILL AND GROUT *6 TIE BARS	EACH	1500	1500					

* SPECIALTY ITEMS

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES	CONSTRUCTION TYPE CODE: ROADWAY 0004	0021 SIGNAL	0021 LIGHTING			

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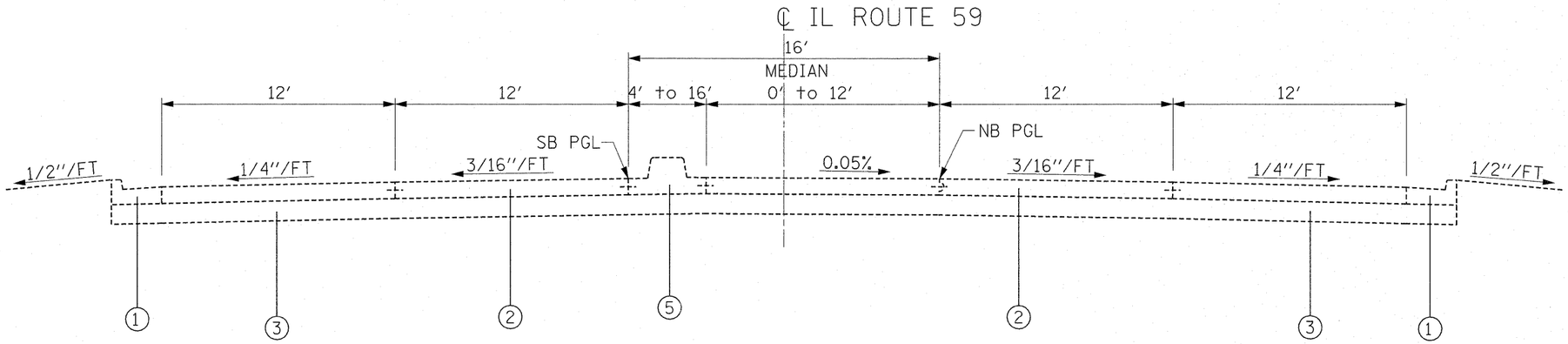
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 59 AT US ROUTE 20
SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	4A
		CONTRACT NO. 60K62		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



EXISTING TYPICAL SECTION
IL ROUTE 59
AT US ROUTE 20

STA 90+25 to 97+50
STA 101+00 to 111+56

LEGEND

(1) EXISTING CURB & GUTTER, TYPE B-6.24

(2) EXISTING PCC PAVEMENT (HINGE JOINTED), 10"

(3) EXISTING AGGREGATE SUBGRADE, 12"

(4) EXISTING CA-7 OR CA-11

(5) EXISTING CONC. SOLID BARRIER, SOLID MEDIAN OR MOUNTABLE MEDIAN TO BE REMOVED AS SHOWN IN ROADWAY PLAN SHEETS

(6) EXISTING CURB & GUTTER, TYPE B-6.12

(7) EXISTING CONCRETE MEDIAN SURFACE, 4"

(8) EXISTING SAND FILL

(9) EXISTING SUB-BASE GRANULAR MATERIALS, TYPE B, 4"

(10) EXISTING FILTER FABRIC

(11) EXISTING PIPE UNDERDRAIN, 4"

(12) PROP. JOINTED PCC PAVEMENT, 10"

(13) PROP. STABILIZED SUBBASE - HMA, 4 1/2"

(14) PROP. AGGREGATE SUBGRADE - 12"

(15) PROP. COARSE AGGREGATE, CA-7

(16) PROP. FILTER FABRIC

(17) PROP. CONC. SOLID BARRIER MEDIAN. SOLID MEDIAN OR MOUNTABLE MEDIAN

(18) PROP. CONC. SOLID MEDIAN, SM-6.12

(19) PROP. CURB & GUTTER, TYPE B-6.24

(20) PROP. PIPE UNDERDRAIN, 4"

(21) PROP. TIE BAR, NO. 6 X 30, 24" SPACING

(22) PROP. TOPSOIL AND SEED

NOTES

1. SEE EXIST. AND PROP. ROADWAY PLAN SHEETS FOR LOCATIONS OF CONC. BARRIER MEDIAN, SOLID MEDIAN, MOUNTABLE MEDIAN AND LEFT TURN LANE.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

	MIXTURE TYPE	AIR VOIDS (%)
STABILIZED SUBBASE	STABILIZED SUBBASE - HMA, 4 1/2"	2% @ 30 GYR
DRIVEWAY	HOT-MIX ASPHALT BASE COURSE, (BINDER IL-19.0 MM), 6"	4% @ 50 GYR
	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50, (IL-9.5MM), 2"	4% @ 50 GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

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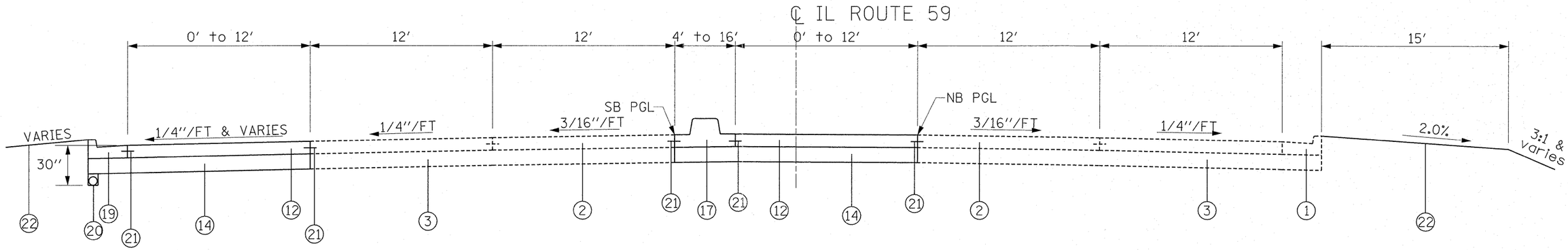
	PLOT DATE = 3/16/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 59 AT US ROUTE 20
EXISTING AND PROPOSED TYPICAL SECTIONS

SCALE: N.T.S. | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	5
		CONTRACT NO. 60K62		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



PROPOSED TYPICAL SECTION
IL ROUTE 59
AT US ROUTE 20

STA 90+25 to 97+50
STA 101+00 to 111+56

LEGEND

(1) EXISTING CURB & GUTTER, TYPE B-6.24

(2) EXISTING PCC PAVEMENT (HINGE JOINTED), 10''

(3) EXISTING AGGREGATE SUBGRADE, 12''

(4) EXISTING CA-7 OR CA-11

(5) EXISTING CONC. SOLID BARRIER, SOLID MEDIAN OR MOUNTABLE MEDIAN TO BE REMOVED AS SHOWN IN ROADWAY PLAN SHEETS

(6) EXISTING CURB & GUTTER, TYPE B-6.12

(7) EXISTING CONCRETE MEDIAN SURFACE, 4''

(8) EXISTING SAND FILL

(9) EXISTING SUB-BASE GRANULAR MATERIALS, TYPE B, 4''

(10) EXISTING FILTER FABRIC

(11) EXISTING PIPE UNDERDRAIN, 4''

(12) PROP. JOINTED PCC PAVEMENT, 10''

(13) PROP. STABILIZED SUBBASE - HMA, 4 1/2''

(14) PROP. AGGREGATE SUBGRADE - 12''

(15) PROP. COARSE AGGREGATE, CA-7

(16) PROP. FILTER FABRIC

(17) PROP. CONC. SOLID BARRIER MEDIAN. SOLID MEDIAN OR MOUNTABLE MEDIAN

(18) PROP. CONC. SOLID MEDIAN, SM-6.12

(19) PROP. CURB & GUTTER, TYPE B-6.24

(20) PROP. PIPE UNDERDRAIN, 4''

(21) PROP. TIE BAR, NO. 6 X 30, 24'' SPACING

(22) PROP. TOPSOIL AND SEED

NOTES

1. SEE EXIST. AND PROP. ROADWAY PLAN SHEETS FOR LOCATIONS OF CONC. BARRIER MEDIAN, SOLID MEDIAN, MOUNTABLE MEDIAN AND LEFT TURN LANE.

2. LIGHTWEIGHT CELLULAR CONCRETE (LWCC) EXISTS DIRECTLY BENEATH THE EXIST. AGG. SUBGRADE APPROXIMATELY BETWEEN STA. 94+60 TO STA. 97+50. SEE ROADWAY PLAN SHEET AND LWCC CROSS SECTIONS FOR APPROXIMATE LOCATION. CONTRACTOR SHALL NOT DISTURB OR DAMAGE LWCC IN ANY WAY. WHEN CONTRACTOR IS IN PROXIMITY OF LWCC DURING PROPOSED WORK, HAND EXCAVATION SHALL BEGIN ONCE THE CONTRACTOR REACHES THE TOP OF EXIST. AGG. SUBGRADE. HAND EXCAVATION SHALL BE PAID FOR THROUGH FORCE ACCOUNT (ARTICLE 109.04).

3. LWCC MAY EXIST IN AREAS OF TRAFFIC SIGNAL POST AND LIGHTING RELOCATIONS. SOIL CONDITIONS AT THE EXACT SIGNAL OR LIGHTING LOCATIONS WILL NEED TO BE DETERMINED IN THE FIELD DURING CONSTRUCTION AND ADJUSTMENTS TO THE FOUNDATION DEPTHS DETERMINED AT THAT TIME. IT IS ACCEPTABLE TO DRILL THROUGH THE LWCC TO INSTALL A DRILLED SHAFT FOUNDATION AS ALONG AS THE HOLE DIAMETER IS THE SAME AS THE SHAFT DIAMETER.

4. TIE BARS USED TO TIE PROP. JOINTED PCC PAVEMENT INTO EXIST. PCC PAVEMENT SHALL BE PAID FOR AS DRILL AND GROUT #6 TIE BARS. TIE BARS USED TO TIE PROP. CURB AND GUTTER INTO EXIST. PCC PAVEMENT SHALL BE PAID FOR AS DRILL AND GROUT #6 TIE BARS. TIE BARS USED TO TIE PROP. JOINTED PCC PAVEMENT INTO PROP. CURB AND GUTTER SHALL BE INCIDENTAL TO THE COST OF COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24.

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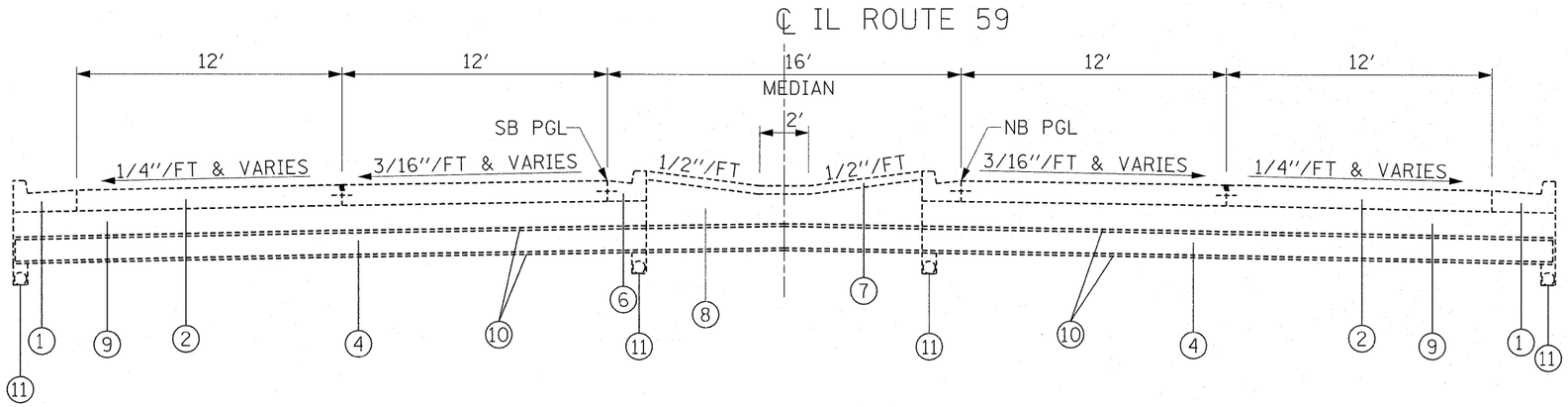
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 3/16/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 59 AT US ROUTE 20
EXISTING AND PROPOSED TYPICAL SECTIONS

SCALE: N.T.S. | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	6
		CONTRACT NO. 60K62		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



EXISTING TYPICAL SECTION
IL ROUTE 59
AT US ROUTE 20

STA 97+50 to 101+00

LEGEND

(1) EXISTING CURB & GUTTER, TYPE B-6.24

(2) EXISTING PCC PAVEMENT (HINGE JOINTED), 10″

(3) EXISTING AGGREGATE SUBGRADE, 12″

(4) EXISTING CA-7 OR CA-11

(5) EXISTING CONC. SOLID BARRIER, SOLID MEDIAN OR MOUNTABLE MEDIAN TO BE REMOVED AS SHOWN IN ROADWAY PLAN SHEETS

(6) EXISTING CURB & GUTTER, TYPE B-6.12

(7) EXISTING CONCRETE MEDIAN SURFACE, 4″

(8) EXISTING SAND FILL

(9) EXISTING SUB-BASE GRANULAR MATERIALS, TYPE B, 4″

(10) EXISTING FILTER FABRIC

(11) EXISTING PIPE UNDERDRAIN, 4″

(12) PROP. JOINTED PCC PAVEMENT, 10″

(13) PROP. STABILIZED SUBBASE - HMA, 4 1/2″

(14) PROP. AGGREGATE SUBGRADE - 12″

(15) PROP. COARSE AGGREGATE, CA-7

(16) PROP. FILTER FABRIC

(17) PROP. CONC. SOLID BARRIER MEDIAN. SOLID MEDIAN OR MOUNTABLE MEDIAN

(18) PROP. CONC. SOLID MEDIAN, SM-6.12

(19) PROP. CURB & GUTTER, TYPE B-6.24

(20) PROP. PIPE UNDERDRAIN, 4″

(21) PROP. TIE BAR, NO. 6 X 30, 24″ SPACING

(22) PROP. TOPSOIL AND SEED

NOTES

1. EXISTING CA-7 OR CA-11 IS COMPLETELY WRAPPED WITH EXISTING FILTER FABRIC TO CREATE AN OPEN-GRADED DRAINAGE BLANKET. WHEN EXISTING DRAINAGE STRUCTURES ARE REMOVED BETWEEN STA. 97+50 AND STA. 101+00 TO CREATE NEW P.C.C. JOINTED PAVEMENT, HOLES MAY EXIST IN EXIST. FILTER FABRIC. ALL HOLES MUST BE PROPERLY SEALED WITH NEW FILTER FABRIC.

2. WHEN EXISTING DRAINAGE STRUCTURES ARE REMOVED, POSITIVE DRAINAGE MUST BE MAINTAINED AT ALL TIMES. AFTER NEW PIPE CULVERTS AND NEW DRAINAGE STRUCTURES ARE INSTALLED BETWEEN STA. 97+50 AND STA. 101+00, CREATE NEW OPEN-GRADED DRAINAGE BLANKET BY CREATING AN ENVELOPE AROUND THE PIPE CULVERTS AND DRAINAGE STRUCTURES USING PROP. FILTER FABRIC AND THEN FILLING VOID WITH PROP. CA-7.

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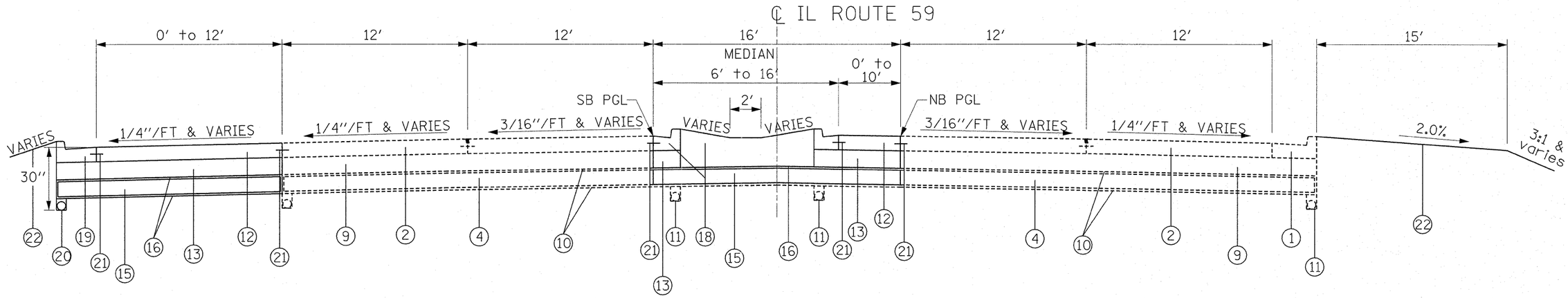
	PLOT DATE = 3/16/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 59 AT US ROUTE 20
EXISTING AND PROPOSED TYPICAL SECTIONS

SCALE: N.T.S. | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	7
		CONTRACT NO. 60K62		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



PROPOSED TYPICAL SECTION
IL ROUTE 59
AT US ROUTE 20

STA 97+50 to 101+00

LEGEND

(1) EXISTING CURB & GUTTER, TYPE B-6.24

(2) EXISTING PCC PAVEMENT (HINGE JOINTED), 10"

(3) EXISTING AGGREGATE SUBGRADE, 12"

(4) EXISTING CA-7 OR CA-11

(5) EXISTING CONC. SOLID BARRIER, SOLID MEDIAN OR MOUNTABLE MEDIAN TO BE REMOVED AS SHOWN IN ROADWAY PLAN SHEETS

(6) EXISTING CURB & GUTTER, TYPE B-6.12

(7) EXISTING CONCRETE MEDIAN SURFACE, 4"

(8) EXISTING SAND FILL

(9) EXISTING SUB-BASE GRANULAR MATERIALS, TYPE B, 4"

(10) EXISTING FILTER FABRIC

(11) EXISTING PIPE UNDERDRAIN, 4"

(12) PROP. JOINTED PCC PAVEMENT, 10"

(13) PROP. STABILIZED SUBBASE - HMA, 4 1/2"

(14) PROP. AGGREGATE SUBGRADE - 12"

(15) PROP. COARSE AGGREGATE, CA-7

(16) PROP. FILTER FABRIC

(17) PROP. CONC. SOLID BARRIER MEDIAN. SOLID MEDIAN OR MOUNTABLE MEDIAN

(18) PROP. CONC. SOLID MEDIAN, SM-6.12

(19) PROP. CURB & GUTTER, TYPE B-6.24

(20) PROP. PIPE UNDERDRAIN, 4"

(21) PROP. TIE BAR, NO. 6 X 30, 24" SPACING

(22) PROP. TOPSOIL AND SEED

NOTES

1. WHEN CONSTRUCTING RIGHT TURN LANE BETWEEN STA. 97+50 AND 101+00, CONTRACTOR SHALL BE CAREFUL NOT DAMAGE OR DISTURB EXIST. PIPE UNDERDRAIN.

2. WHEN REMOVING MEDIAN BETWEEN STA. 97+50 AND 101+00, CONTRACTOR SHALL REPLACE IN KIND ANY DAMAGE MADE TO EXIST. FILTER FABRIC. THERE SHALL BE AT LEAST A 12 INCH OVERLAP.

3. ALL EXIST. PIPE UNDERDRAIN SHALL REMAIN IN PLACE. CONTRACTOR SHALL BE CAREFUL NOT TO DAMAGE EXIST. PIPE UNDERDRAIN.

4. PROP. STABILIZED SUBBASE - HMA, 4 1/2", SHALL BE PLACED IN ONE LIFT. CONTRACTOR SHALL TRIM SUBBASE IF NECESSARY IN ORDER TO MAINTAIN FULL 10" JOINTED PCC PAVEMENT THICKNESS ABOVE SUBBASE.

5. TIE BARS USED TO TIE PROP. JOINTED PCC PAVEMENT INTO EXIST. PCC PAVEMENT SHALL BE PAID FOR AS DRILL AND GROUT #6 TIE BARS. TIE BARS USED TO TIE PROP. CURB AND GUTTER INTO EXIST. PCC PAVEMENT SHALL BE PAID FOR AS DRILL AND GROUT #6 TIE BARS. TIE BARS USED TO TIE PROP. JOINTED PCC PAVEMENT INTO PROP. CURB AND GUTTER SHALL BE INCIDENTAL TO THE COST OF COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24.

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	PLOT SCALE = 50.0000 ' / IN.	DRAWN	REVISED -					338	7 HB-K-N	COOK	82	8
	PLOT DATE = 3/16/2011	CHECKED -	REVISED -							CONTRACT NO. 60K62		
		DATE -	REVISED -		SCALE: N.T.S.	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

IL 59 - WEST SIDE (RAMPS)

EARTHWORK						
1	2	3	4	5	6	7
IL ROUTE 59 AT US ROUTE 20	EARTH EXCAVATION (CU YD)	UNSUITABLE MATERIAL (CU YD)	EMBANKMENT (CU YD)	ADJUSTMENT FOR SHRINKAGE (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)	TOP SOIL FURNISH AND PLACE (SQ YD)
IL ROUTE 59 (STA. 96+78 TO STA. 97+00)	8	6	17	6.8	-10.2	71
IL ROUTE 59 (STA. 97+00 TO STA. 98+00)	93	32	74	79.1	5.1	237
IL ROUTE 59 (STA. 98+00 TO STA. 99+00)	97	10	4	82.5	78.5	131
IL ROUTE 59 (STA. 99+00 TO STA. 99+62)	25	4	2	21.3	19.3	90
IL ROUTE 59 (STA. 106+11 TO STA. 107+00)	101	6	4	85.9	81.9	198
IL ROUTE 59 (STA. 107+00 TO STA. 108+00)	201	17	17	170.9	153.9	196
IL ROUTE 59 (STA. 108+00 TO STA. 108+65)	148	11	11	125.8	114.8	121
IL ROUTE 59 (STA. 108+65 TO STA. 109+00)	79	4	2	67.2	65.2	64
IL ROUTE 59 (STA. 109+00 TO STA. 109+59.53)	80	10	14	68.0	54.0	89
IL ROUTE 59 (STA. 109+59.53 TO STA. 110+00)	54	5	9	45.9	36.9	55
IL ROUTE 59 (STA. 110+00 TO STA. 111+00)	135	0	0	114.8	114.8	148
IL ROUTE 59 (STA. 111+00 TO STA. 111+56)	29	0	0	24.7	24.7	73
TOTAL	1050	105	154	892.5	738.5	1473

COLUMN 1: LOCATION FROM PLANS
COLUMN 2: CUT QUANTITIES FROM CROSS SECTIONS, WHICH DOES NOT INCLUDE UNSUITABLE MATERIAL
COLUMN 3: CUT MATERIAL THAT IS DETERMINED TO BE EITHER UNSTABLE OR UNSUITABLE FOR USE IN EMBANKMENT, ASSUME 6" OF UNSUITABLE MATERIAL
COLUMN 4: QUANTITIES FROM CROSS SECTIONS (FILL)
COLUMN 5: EARTH EXCAVATION THAT IS TO BE USED AS FILL MATERIAL IN THE EMBANKMENT, SHRINKAGE FACTOR WAS DETERMINED TO BE 15%
COLUMN 6: COLUMN 5 - COLUMN 4, POSITIVE QUANTITY= EXTRA EXCAVATION, NEGATIVE QUANTITY= FURNISHED EXCAVATION NEEDED
COLUMN 7: TOPSOIL FURNISH AND PLACE= AREA OF SEEDING AND TOPSOIL

FILE NAME = c:\pw_work\pwidot\kellers\d0156262\P142309-Design.dgn	USER NAME = kellers	DESIGNED	REVISED - 3/16/11 SK	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL ROUTE 59 AND US ROUTE 20 SCHEDULE OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN	REVISED -					338	7 HB-K-N	COOK	82	9
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -							CONTRACT NO. 60K62		
	PLOT DATE = 3/16/2011	DATE -	REVISED -		SCALE: N.T.S.	SHEET NO. 1 OF 2 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

IL 59 - EAST SIDE (EARTH SHELF)

EARTHWORK						
1	2	3	4	5	6	7
IL ROUTE 59 AT US ROUTE 20	EARTH EXCAVATION (CU YD)	UNSUITABLE MATERIAL (CU YD)	EMBANKMENT (CU YD)	ADJUSTMENT FOR SHRINKAGE (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)	TOP SOIL FURNISH AND PLACE (SQ YD)
IL ROUTE 59 (STA. 93+00 TO STA. 93+50)	6	0	0	5.1	5.1	36
IL ROUTE 59 (STA. 93+50 TO STA. 93+93.16)	5	0	0	4.3	4.3	31
IL ROUTE 59 (STA. 94+00 TO STA. 94+25)	0	11	28	0.0	-28.0	58
IL ROUTE 59 (STA. 94+25 TO STA. 94+50)	0	24	100	0.0	-100.0	121
IL ROUTE 59 (STA. 94+50 TO STA. 94+62.51)	0	15	86	0.0	-86.0	63
IL ROUTE 59 (STA. 94+62.51 TO STA. 94+75)	1	15	94	0.9	-93.2	64
IL ROUTE 59 (STA. 94+75 TO STA. 95+00)	1	27	150	0.9	-149.2	132
IL ROUTE 59 (STA. 95+00 TO STA. 95+25)	0	25	103	0.0	-103.0	134
IL ROUTE 59 (STA. 95+25 TO STA. 95+50)	0	24	68	0.0	-68.0	135
IL ROUTE 59 (STA. 95+50 TO STA. 95+75)	2	19	42	1.7	-40.3	137
IL ROUTE 59 (STA. 95+75 TO STA. 96+00)	4	19	30	3.4	-26.6	139
IL ROUTE 59 (STA. 96+00 TO STA. 96+25.15)	3	17	25	2.6	-22.5	139
IL ROUTE 59 (STA. 96.25.15 TO STA. 96+61.15)	3	23	31	2.6	-28.5	195
IL ROUTE 59 (STA. 96.61.15 TO STA. 97+00)	4	21	20	3.4	-16.6	206
IL ROUTE 59 (STA. 97+00 TO STA. 98+00)	9	50	24	7.7	-16.4	510
IL ROUTE 59 (STA. 98+00 TO STA. 99+00)	4	30	14	3.4	-10.6	248
IL ROUTE 59 (STA. 108+65 TO STA. 109+00)	7	19	42	6.0	-36.1	54
IL ROUTE 59 (STA. 109+00 TO STA. 109+59.53)	4	31	77	3.4	-73.6	175
IL ROUTE 59 (STA. 109+59.53 TO STA. 110+00)	2	22	54	1.7	-52.3	118
IL ROUTE 59 (STA. 110+00 TO STA. 111+00)	4	42	81	3.4	-77.6	296
IL ROUTE 59 (STA. 111+00 TO STA. 112+00)	0	22	35	0.0	-35.0	146
TOTAL	59	456	1104	50.2	-1053.9	3137

COLUMN 1: LOCATION FROM PLANS
COLUMN 2: CUT QUANTITIES FROM CROSS SECTIONS, WHICH DOES NOT INCLUDE UNSUITABLE MATERIAL
COLUMN 3: CUT MATERIAL THAT IS DETERMINED TO BE EITHER UNSTABLE OR UNSUITABLE FOR USE IN EMBANKMENT, ASSUME 6'' OF UNSUITABLE MATERIAL
COLUMN 4: QUANTITIES FROM CROSS SECTIONS (FILL)
COLUMN 5: EARTH EXCAVATION THAT IS TO BE USED AS FILL MATERIAL IN THE EMBANKMENT, SHRINKAGE FACTOR WAS DETERMINED TO BE 15%
COLUMN 6: COLUMN 5 - COLUMN 4, POSITIVE QUANTITY= EXTRA EXCAVATION, NEGATIVE QUANTITY= FURNISHED EXCAVATION NEEDED
COLUMN 7: TOPSOIL FURNISH AND PLACE= AREA OF SEEDING AND TOPSOIL

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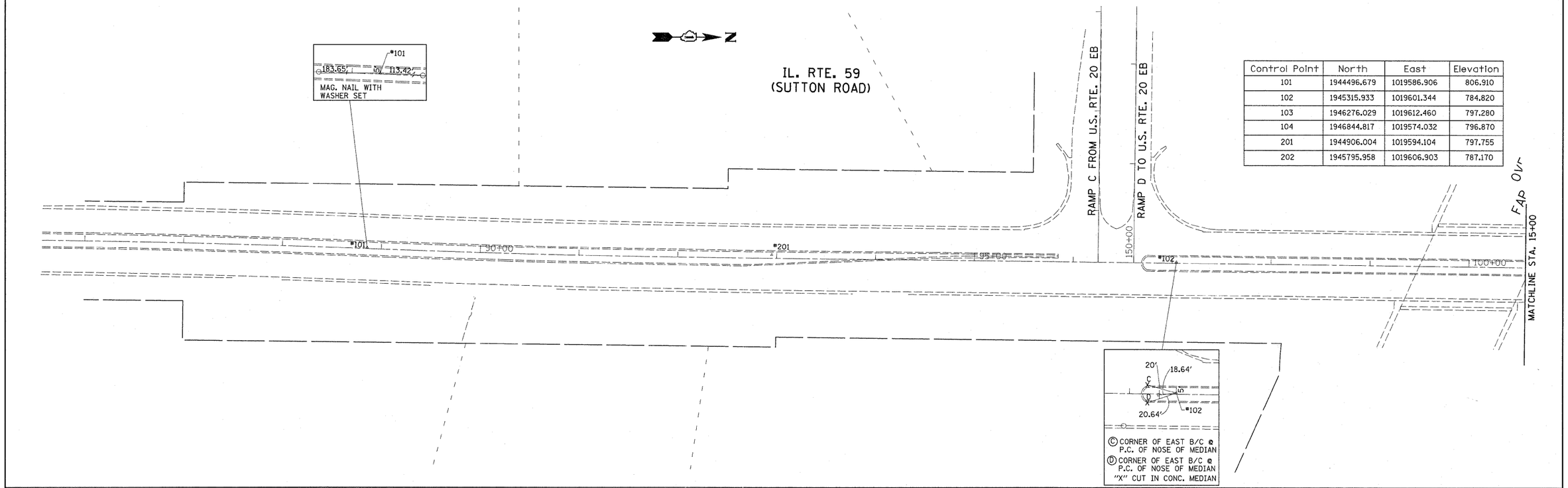
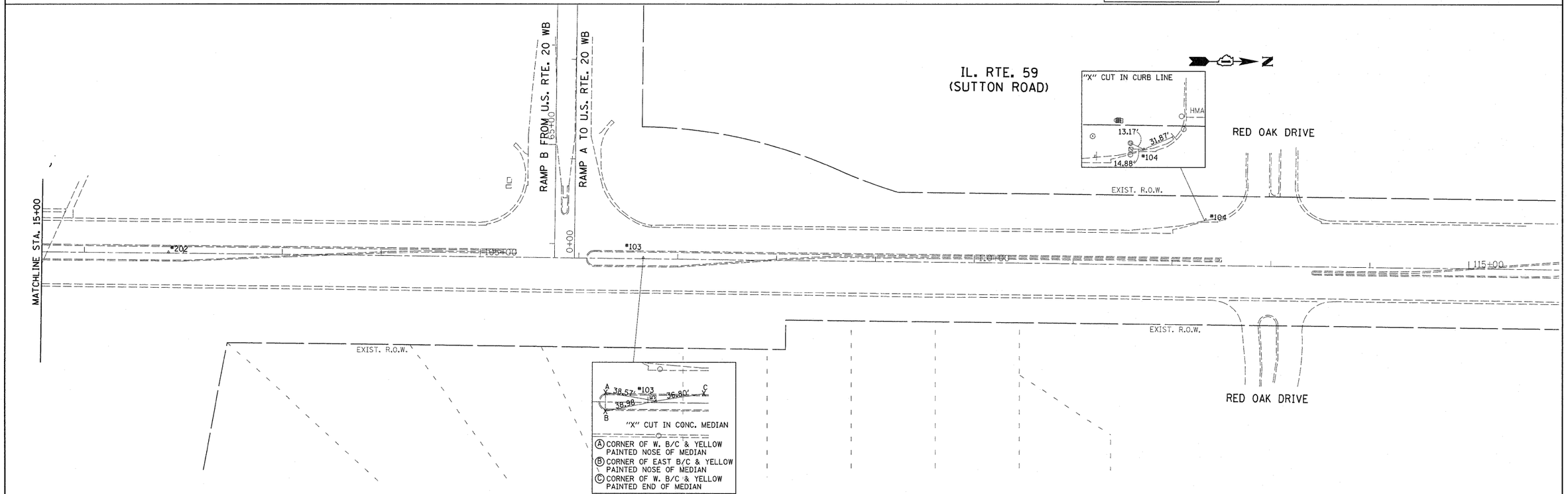
	PLOT DATE = 3/16/2011	CHECKED -	REVISED -					
		DATE -	REVISED -					

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	10
		CONTRACT NO. 60K62		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



Control Point	North	East	Elevation
101	1944496.679	1019586.906	806.910
102	1945315.933	1019601.344	784.820
103	1946276.029	1019612.460	797.280
104	1946844.817	1019574.032	796.870
201	1944906.004	1019594.104	797.755
202	1945795.958	1019606.903	787.170



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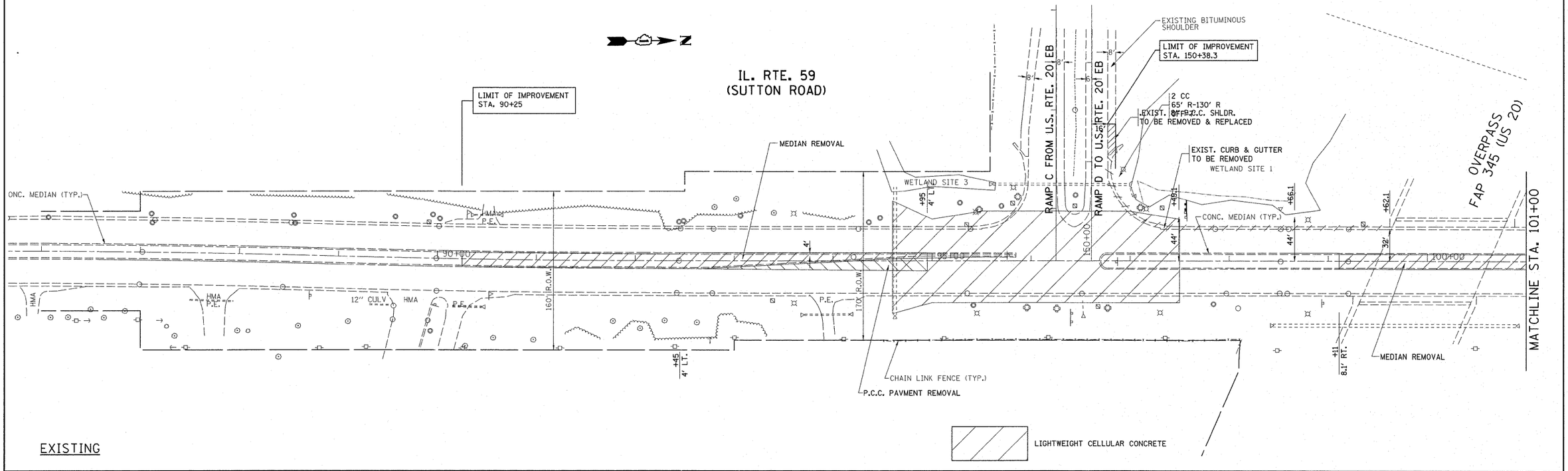
	PLOT DATE = 2/22/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. RTE. 59 @ U.S. RTE. 20
ALIGNMENT, TIES & BENCHMARKS

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			82	11
		CONTRACT NO.		
	ILLINOIS	FED. AID PROJECT		



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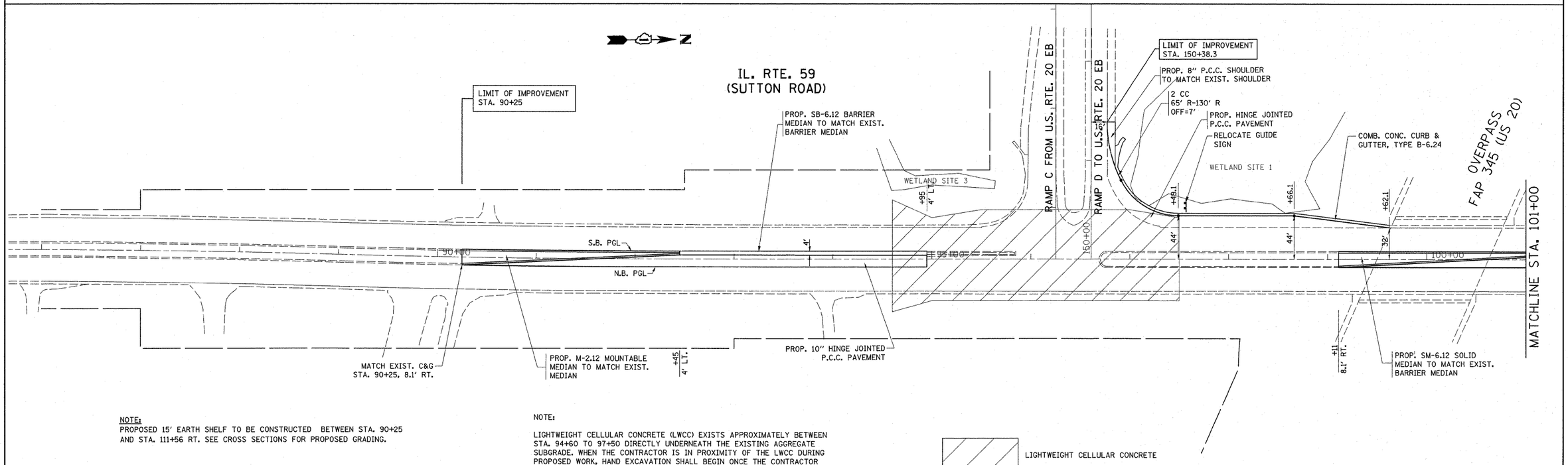

PROPOSED

NOTE:
PROPOSED 15' EARTH SHELF TO BE CONSTRUCTED BETWEEN STA. 90+25 AND STA. 111+56 RT. SEE CROSS SECTIONS FOR PROPOSED GRADING.

NOTE:

LIGHTWEIGHT CELLULAR CONCRETE (LWCC) EXISTS APPROXIMATELY BETWEEN STA. 94+60 TO 97+50 DIRECTLY UNDERNEATH THE EXISTING AGGREGATE SUBGRADE. WHEN THE CONTRACTOR IS IN PROXIMITY OF THE LWCC DURING PROPOSED WORK, HAND EXCAVATION SHALL BEGIN ONCE THE CONTRACTOR REACHES THE TOP OF THE EXIST. AGG. SUBGRADE. THE LWCC SHALL NOT BE DISTURBED OR DAMAGED IN ANY WAY. ALL HAND EXCAVATION SHALL BE PAID FOR THROUGH FORCE ACCOUNT (ARTICLE 109.04). REFER TO SHEETS 82B-82F FOR ESTIMATED CROSS-SECTIONS OF LWCC.

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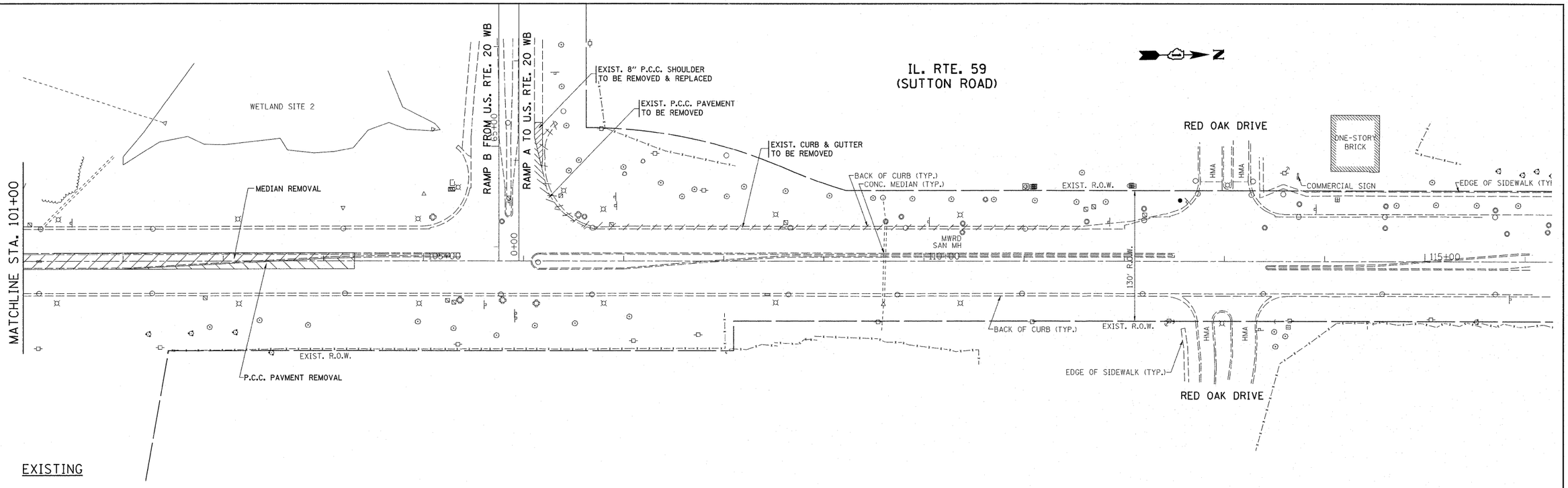
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 3/16/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXIST. & PROP. ROADWAY PLAN
IL. RTE. 59 AT U.S. RTE. 20

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	12
		CONTRACT NO. 60K62		
		ILLINOIS FED. AID PROJECT		



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXIST. & PROP. ROADWAY PLAN
IL. RTE. 59 AT U.S. RTE. 20

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	13
		CONTRACT NO. 60K62		
		ILLINOIS FED. AID PROJECT		

PLAN

SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
GRADES CHECKED	
NOTE BOOK	
NO.	
CADD FILE NAME	

BY	DATE

EXIST. PGL FOR N.B. IL. RTE. 59

808.94	808.21	807.46	806.67	805.66	803.83	801.00	797.46	793.58	789.77	786.60	784.61	783.44	783.33	783.74	785.03
86+00	87+00	88+00	89+00	90+00	91+00	92+00	93+00	94+00	95+00	96+00	97+00	98+00	99+00	100+00	101+00

PROFILE

SURVEYED	
PLOTTED	
GRADES CHECKED	
NOTE BOOK	
NO.	
STRUCTURE NO'S	

BY	DATE

EXIST. PGL FOR S.B. IL. RTE. 59

808.93	808.21	807.43	806.66	805.61	803.83	801.01	797.47	793.52	789.71	786.56	784.43	783.52	783.38	783.76	784.90
86+00	87+00	88+00	89+00	90+00	91+00	92+00	93+00	94+00	95+00	96+00	97+00	98+00	99+00	100+00	101+00

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	PLOT DATE = 2/22/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

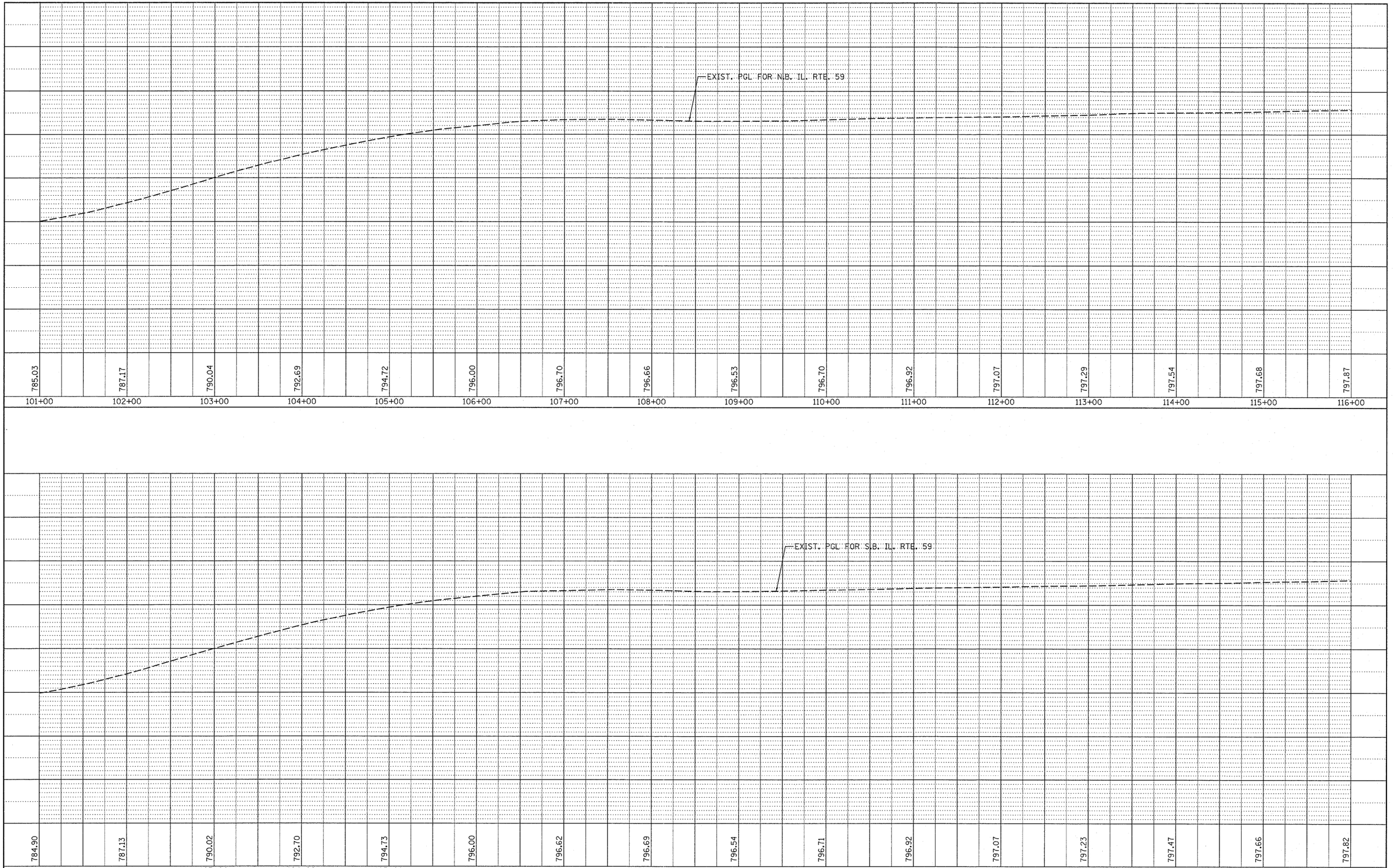
N.B & S.B. PROFILE
IL. RTE. 59 AT U.S. RTE. 20

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	14
		CONTRACT NO. 60K62		
	ILLINOIS FED. AID PROJECT			

PLAN

	BY	DATE
SURVEYED		
PLOTTED		
ALIGNMENT CHECKED		
GRADES CHECKED		
ALL QUANTITIES COMPUTED		
CADD FILE NAME		
NOTE BOOK NO.		



PROFILE

	BY	DATE
SURVEYED		
PLOTTED		
GRADES CHECKED		
ALL QUANTITIES COMPUTED		
STRUCTURE NOTATNS CH'KD		
NOTE BOOK NO.		

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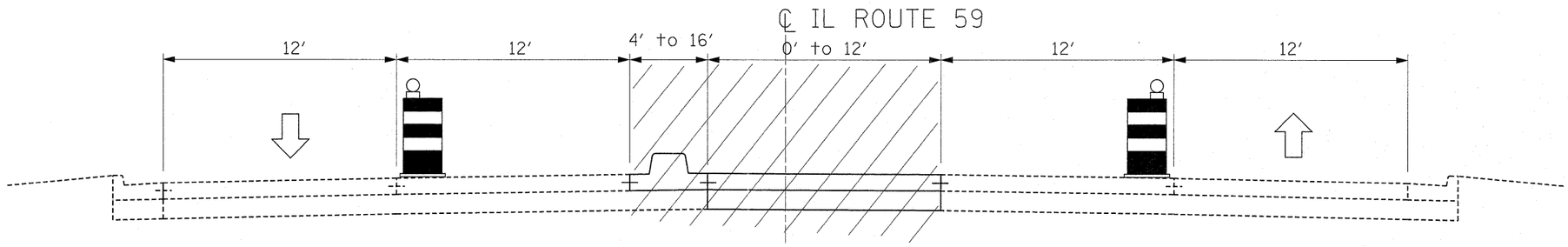
	PLOT DATE = 2/22/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

N.B & S.B. PROFILE
IL. RTE. 59 AT U.S. RTE. 20

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	15
		CONTRACT NO. 60K62		
		ILLINOIS FED. AID PROJECT		



STAGE I TYPICAL SECTION
IL ROUTE 59
AT US ROUTE 20

STAGE I

1. ONE 12′ LANE IN EACH DIRECTION SHALL BE MAINTAINED THROUGHOUT ENTIRE LENGTH OF PROJECT.

2. CONSTRUCT NEW CONC. SOLID BARRIER MEDIAN, SOLID MEDIAN, MOUNTABLE MEDIAN AND JOINTED PCC PAVEMENT AS SHOWN ON PROP. ROADWAY PLAN SHEETS.

3. ALL NB TRAFFIC (PASSENGER VEHICLES, TRUCKS, ETC.) UTILIZING RAMPS TO GO EB/WB US ROUTE 20 SHALL BE DETOURED ACCORDING TO DETOUR PLAN ON SHEET 23 UNTIL ALL MEDIAN WORK IS COMPLETE.

4. ALL MEDIAN WORK SHALL BE COMPLETE PRIOR TO BEGINNING STAGE II.

GENERAL NOTES

1. THE CONTRACTOR SHALL MAINTAIN TRAFFIC IN ACCORDANCE WITH THE SPECIAL PROVISIONS, STATE STANDARDS, STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.

2. TYPE II BARRICADES/DRUMS SHALL BE EQUIPPED WITH MONO-DIRECTIONAL STEADY BURN LIGHTS AND SHALL BE PLACED ALONG THE PROPOSED WORK ZONE AND WITHIN TAPER SECTIONS AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

3. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE DESIGNATED TRAFFIC CONTROL PLAN. THIS WORK SHALL BE PAID FOR AS PAVEMENT MARKING REMOVAL.

4. THE FURNISHING, INSTALLING AND RELOCATION OF ALL TRAFFIC SIGNS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE STANDARD SPECIFICATIONS. ALL CONFLICTING TRAFFIC SIGNS SHALL BE COVERED AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION (SPECIAL).

5. ADDITIONAL SIGNS WILL BE PAID UNDER THE ITEM Z0030850, TEMPORARY INFORMATION SIGNING.

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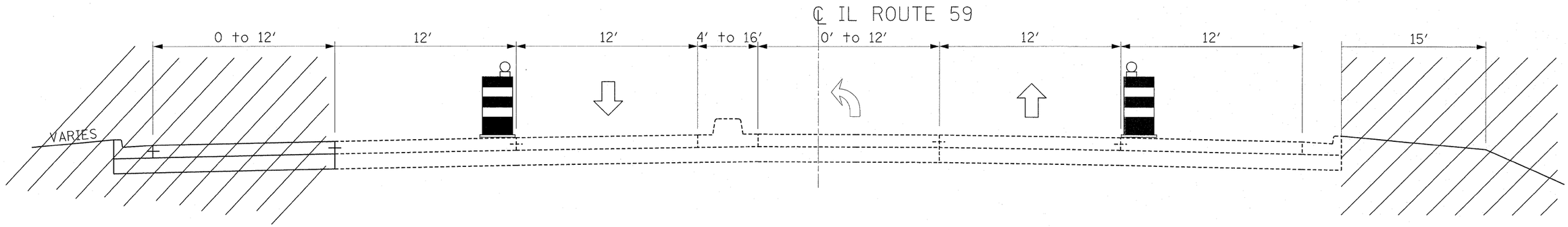
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 59 AND US ROUTE 20
SUGGESTED TRAFFIC STAGING TYPICAL SECTION

SCALE: N.T.S. | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	16
		CONTRACT NO. 60K62		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



STAGE II TYPICAL SECTION
IL ROUTE 59
AT US ROUTE 20

STAGE II

1. ONE 12′ LANE IN EACH DIRECTION MUST BE MAINTAINED AT ALL TIMES THROUGHOUT ENTIRE LENGTH OF PROJECT.

2. CONSTRUCT PROPOSED RIGHT TURN LANE ONTO US ROUTE 20 ON WEST SIDE OF IL ROUTE 59 AT BOTH LOCATIONS AND CONSTRUCT 15′ EARTH SHELF ON EAST SIDE OF IL ROUTE 59 IN ACCORDANCE WITH PROPOSED CROSS SECTIONS.

3. CONTRACTOR WILL BE ABLE TO WORK AT ALL LOCATIONS SIMUTANEOUSLY.

4. ALL SB TRUCK TRAFFIC UTILIZING RAMPS TO GO EB/WB ONTO US ROUTE 20 WILL BE DETOURED ACCORDING TO DETOUR PLAN ON SHEET 22 UNTIL ALL WIDENING WORK AND EARTH WORK ARE COMPLETE.

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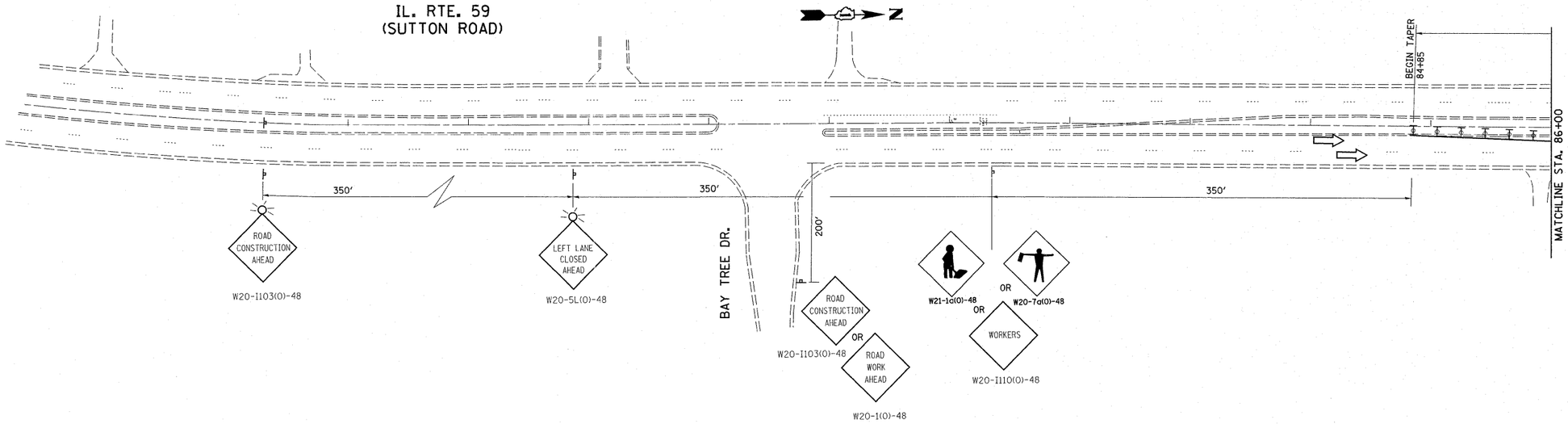
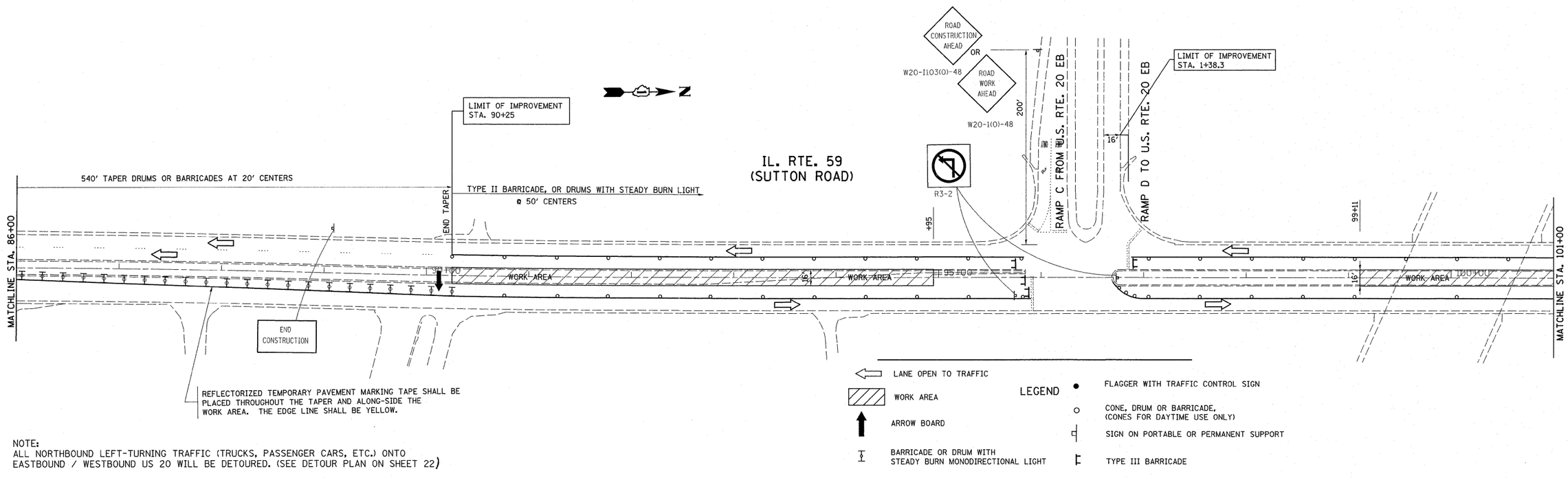
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 59 AND US ROUTE 20
SUGGESTED TRAFFIC STAGING TYPICAL SECTION

SCALE: N.T.S. | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	17
		CONTRACT NO. 60K62		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		





NOTE:
ALL NORTHBOUND LEFT-TURNING TRAFFIC (TRUCKS, PASSENGER CARS, ETC.) ONTO EASTBOUND / WESTBOUND US 20 WILL BE DETOURED. (SEE DETOUR PLAN ON SHEET 22)

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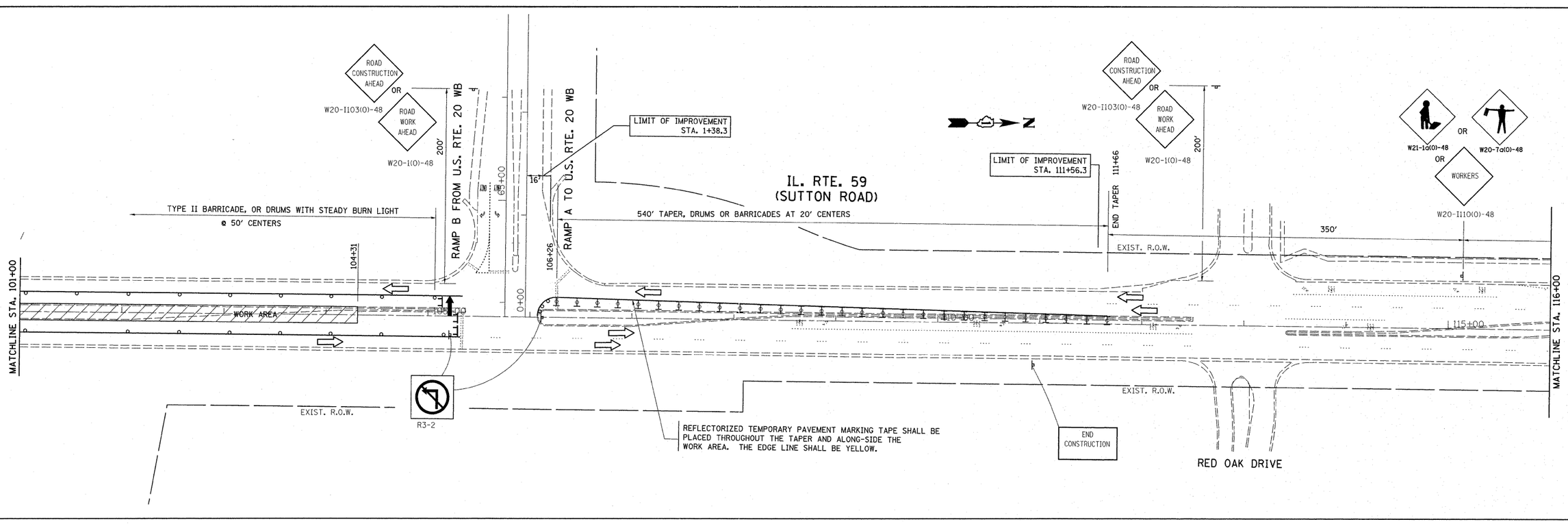
	PLOT DATE = 3/16/2011	DATE -	REVISED -

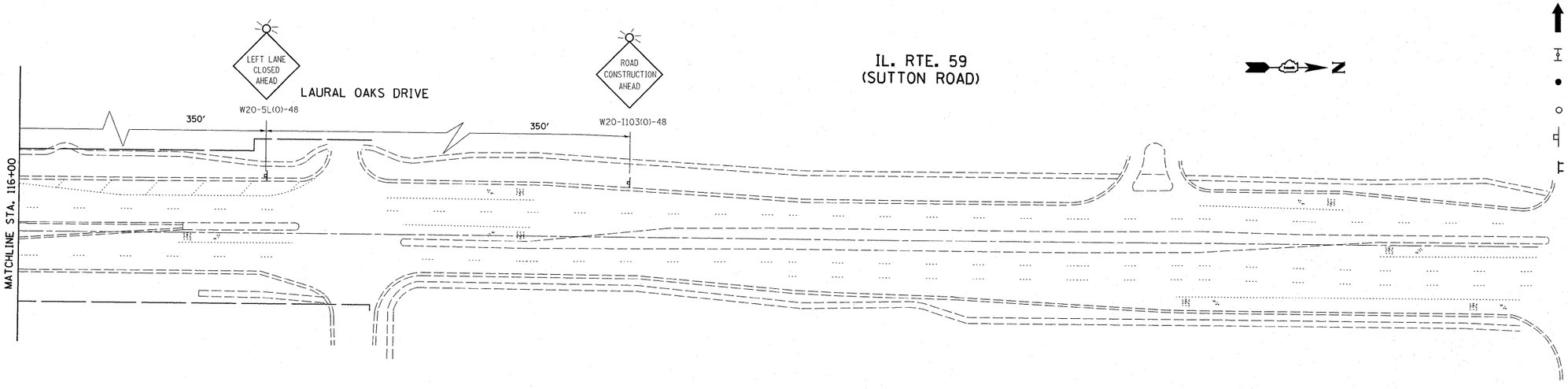
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE I CONSTRUCTION PLAN
IL. RTE. 59 AT U.S. RTE. 20

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. 90+25 TO STA. 113+85

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7HB-K-N	COOK	82	18
		CONTRACT NO. 60K62		
		ILLINOIS FED. AID PROJECT		





LEGEND

- LANE OPEN TO TRAFFIC
- WORK AREA
- ARROW BOARD
- BARRICADE OR DRUM WITH STEADY BURN MONODIRECTIONAL LIGHT
- FLAGGER WITH TRAFFIC CONTROL SIGN
- CONE, DRUM OR BARRICADE, (CONES FOR DAYTIME USE ONLY)
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE III BARRICADE

NOTE:
ALL NORTHBOUND LEFT-TURNING TRAFFIC (TRUCKS, PASSENGER CARS, ETC.) ONTO EASTBOUND / WESTBOUND US 20 WILL BE DETOURED. (SEE DETOUR PLAN ON SHEET 22

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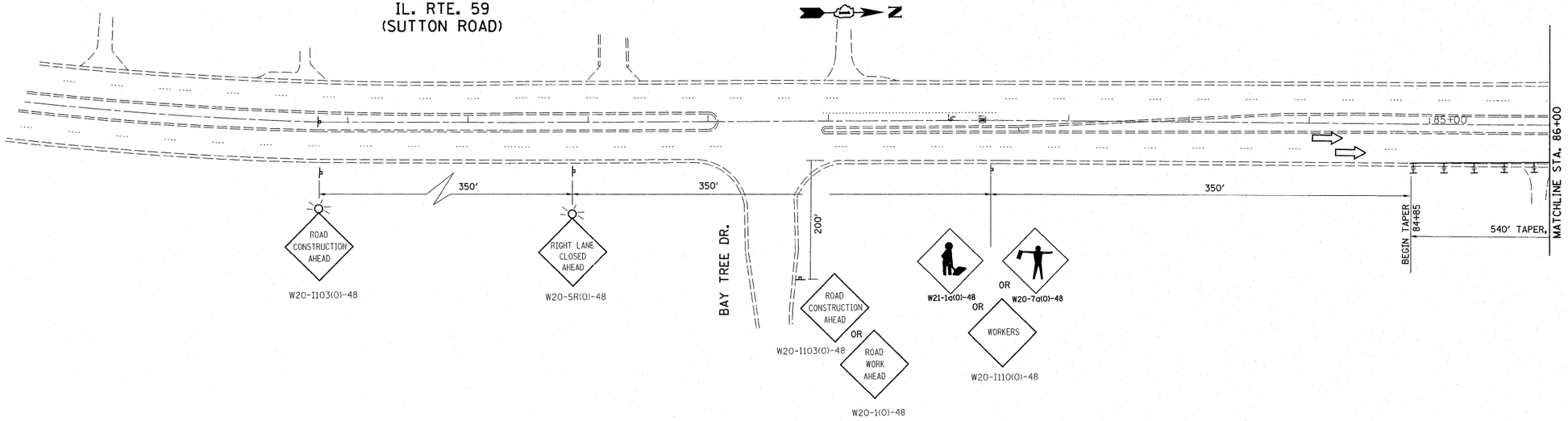
	PLOT DATE = 3/16/2011	DATE -	REVISED -

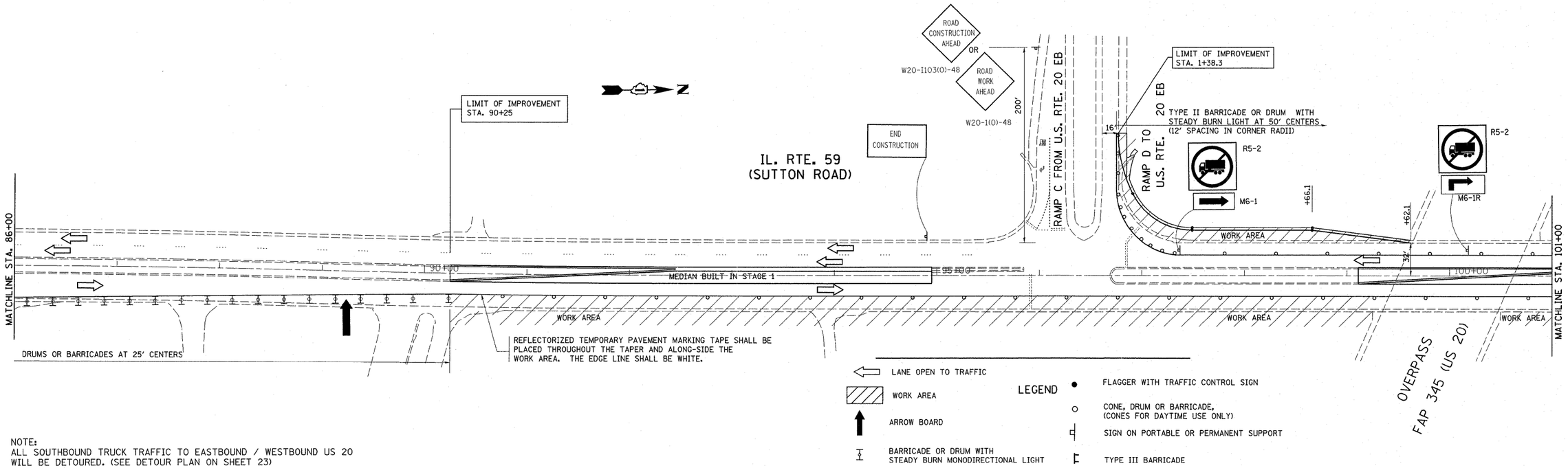
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE I CONSTRUCTION PLAN
IL. RTE. 59 AT U.S. RTE. 20

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. 113+85 TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	THB-K-N	COOK	82	19
		CONTRACT NO. 60K62		
	ILLINOIS	FED. AID PROJECT		





NOTE:
ALL SOUTHBOUND TRUCK TRAFFIC TO EASTBOUND / WESTBOUND US 20 WILL BE DETOURED. (SEE DETOUR PLAN ON SHEET 23)

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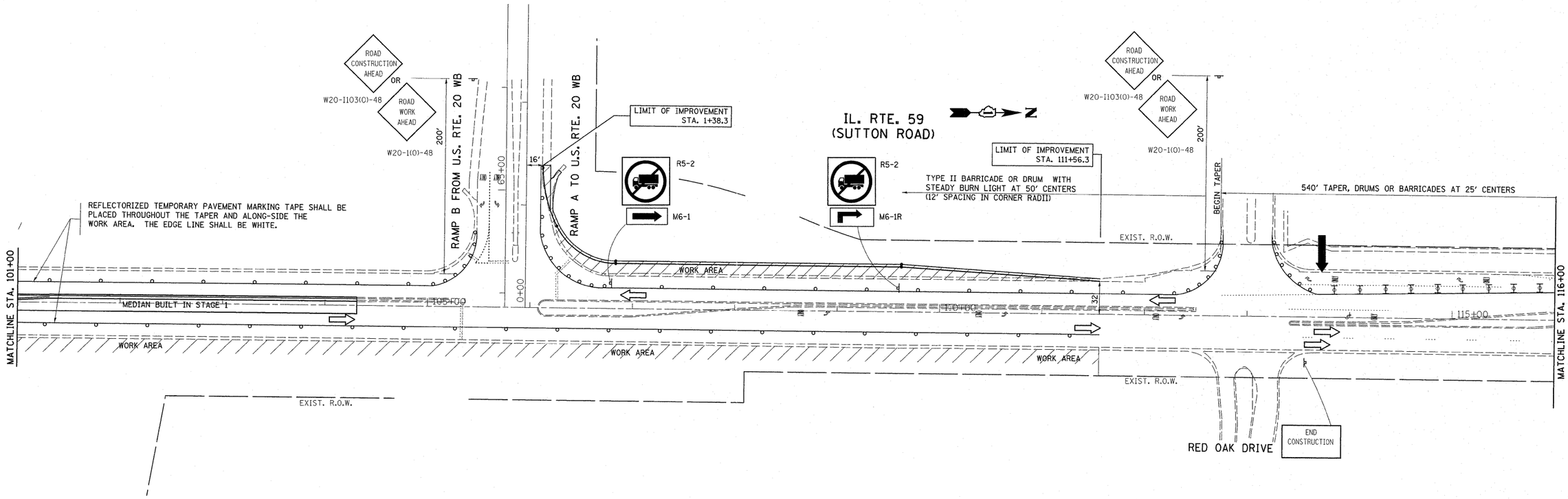
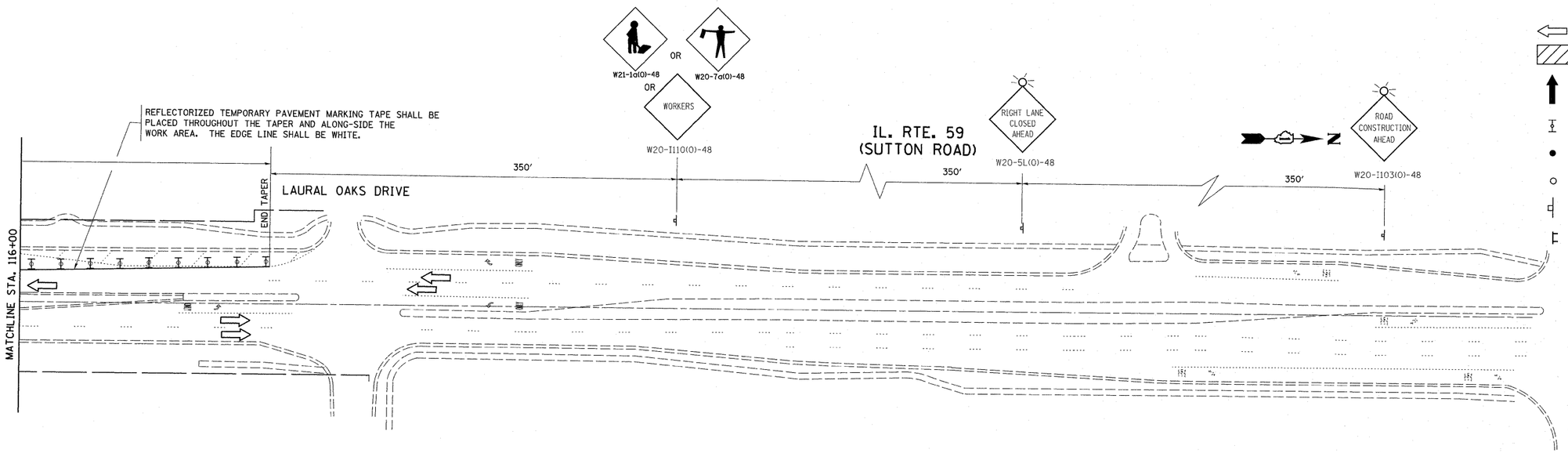
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE II CONSTRUCTION PLAN
IL. RTE. 59 AT U.S. RTE. 20

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. 90+25 TO STA. 113+85

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7HB-K-N	COOK	82	20
		CONTRACT NO. 60K62		
		ILLINOIS FED. AID PROJECT		





NOTE:
ALL SOUTHBOUND TRUCK TRAFFIC TO EASTBOUND / WESTBOUND US 20 WILL BE DETOURED. (SEE DETOUR PLAN ON SHEET 23)

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	PLOT DATE = 3/16/2011	DATE -	REVISED -

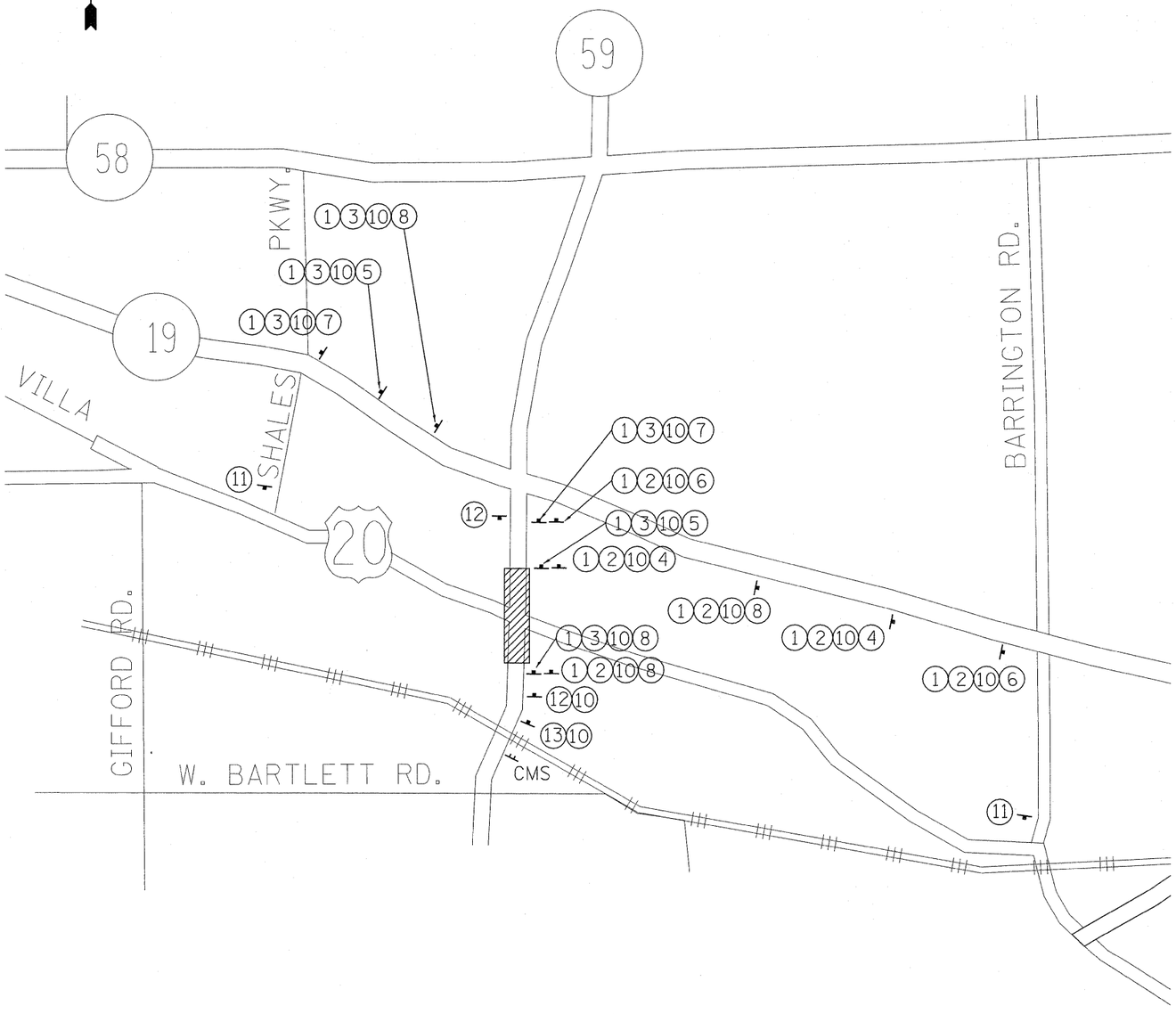
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE II CONSTRUCTION PLAN
IL. RTE. 59 AT U.S. RTE. 20

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. 113+85 TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7HB-K-N	COOK	82	21
		CONTRACT NO. 60K62		
	ILLINOIS	FED. AID PROJECT		

NB IL 59 ENTRANCE RAMPS TO EB & WB US 20



DETOUR LEGEND

1	DETOUR	(M4-8-2412)
2	EAST	(M3-2-2412)
3	WEST	(M3-4-2412)
4		(M5-1R-2115)
5		(M5-1L-2115)
6		(M6-1R-2115)
7		(M6-1L-2115)
8		(M6-3-2115)
9	TRUCK	
10	20	(M1-4(20)-2424)
11	END DETOUR	(M4-8A-2418)
12	ROAD CONSTRUCTION AHEAD	(W20-1A-4848)
13	DETOUR AHEAD	(W20-2-4848)

WORK AREA
(MEDIANS ALONG IL 59)

CMS = CHANGEABLE MESSAGE SIGNBOARD

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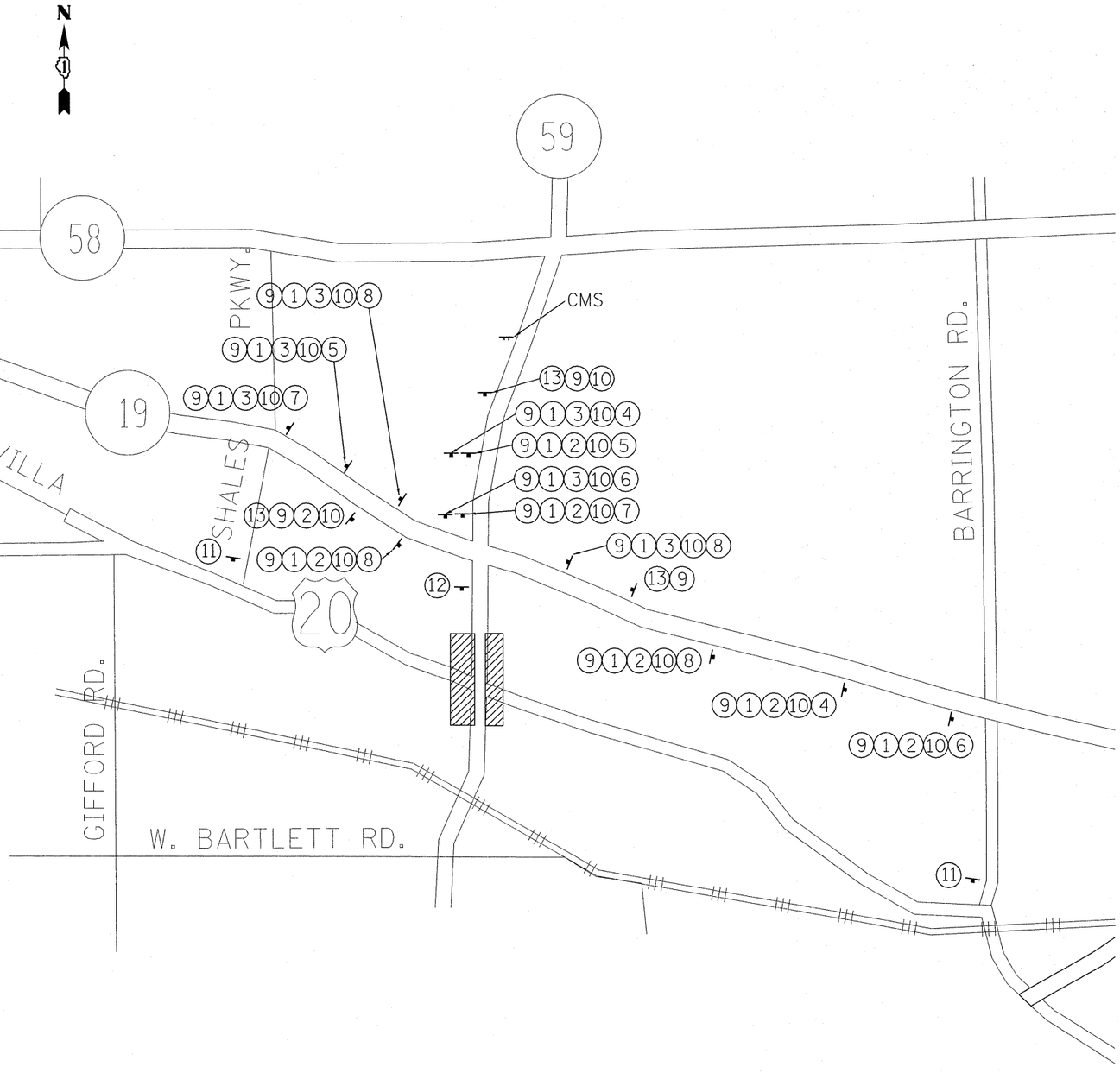
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 59 AT US ROUTE 20
STAGE I TEMPORARY DETOUR PLAN

SCALE: N.T.S. | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	22
		CONTRACT NO. 60K62		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

SB IL 59 ENTRANCE RAMPS TO EB & WB US 20
(TRUCK TRAFFIC ONLY)



DETOUR LEGEND

1	DETOUR	(M4-8-2412)
2	EAST	(M3-2-2412)
3	WEST	(M3-4-2412)
4	↱	(M5-1R-2115)
5	↰	(M5-1L-2115)
6	→	(M6-1R-2115)
7	←	(M6-1L-2115)
8	↑	(M6-3-2115)
9	TRUCK	
10	20	(M1-4(20)-2424)
11	END DETOUR	(M4-8A-2418)
12	ROAD CONSTRUCTION AHEAD	(W20-1A-4848)
13	DETOUR AHEAD	(W20-2-4848)

WORK AREA (SB IL 59)

CMS = CHANGEABLE MESSAGE SIGNBOARD

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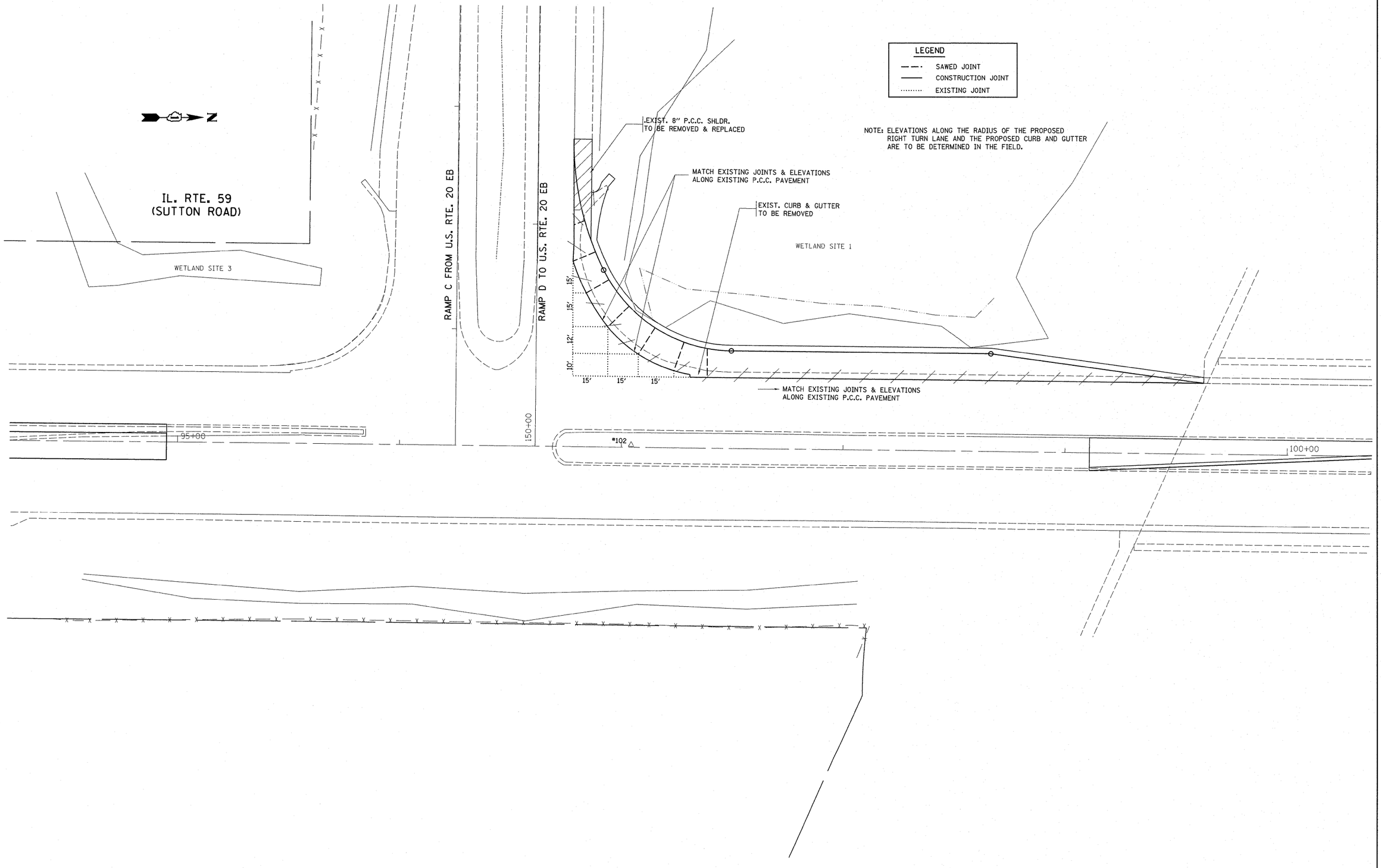
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -		SCALE: N.T.S.	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	SECTION 7 HB-K-N
	PLOT DATE = 3/16/2011	DATE -	REVISED -					COUNTY COOK
								TOTAL SHEETS 82
								SHEET NO. 23
								CONTRACT NO. 60K62
								FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



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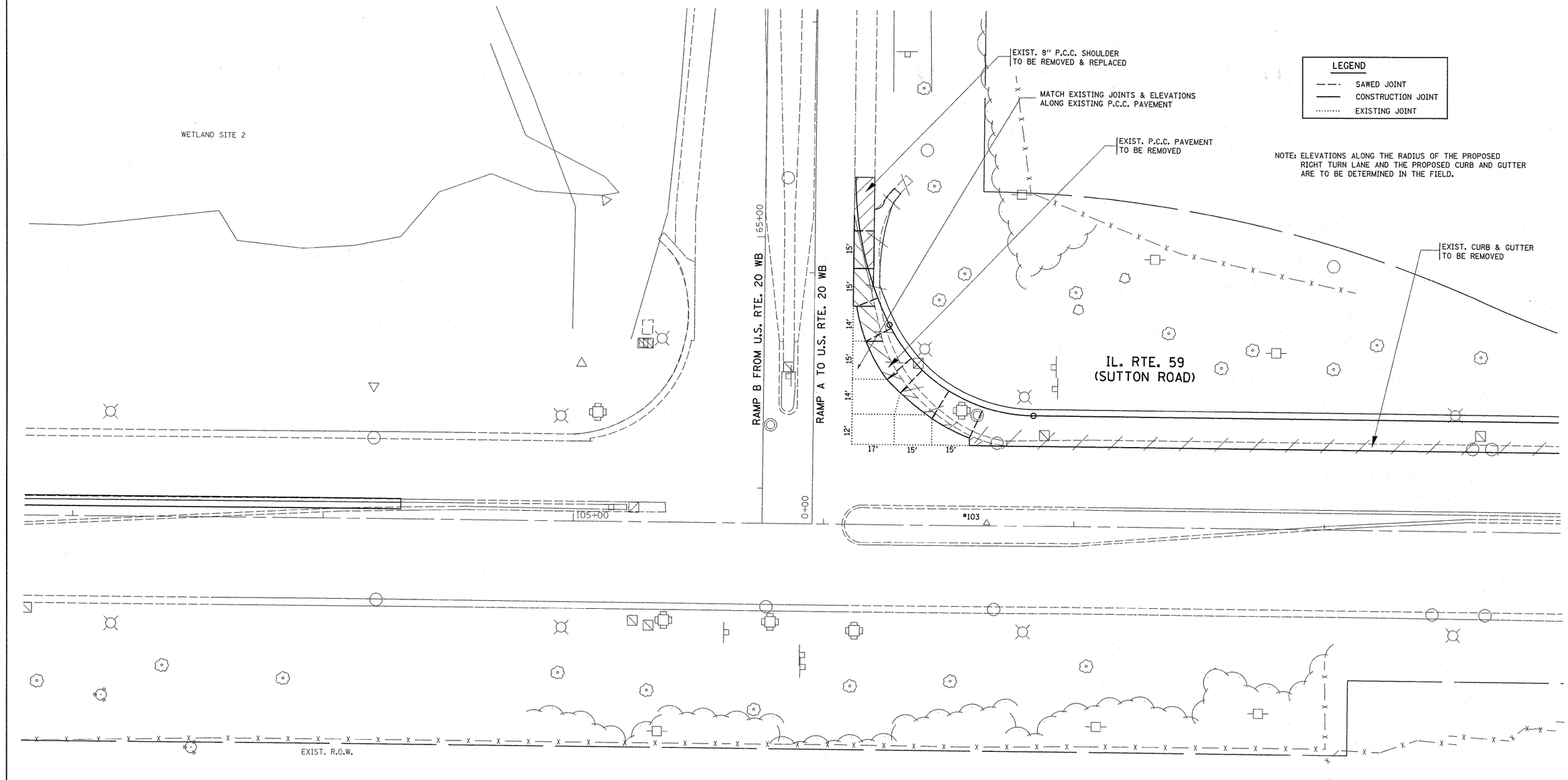
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING & PROPOSED JOINT DETAIL
IL. RTE. 59 AT U.S. RTE. 20

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7HB-K-N	COOK	82	24
		CONTRACT NO. 60K62		
	ILLINOIS	FED. AID PROJECT		



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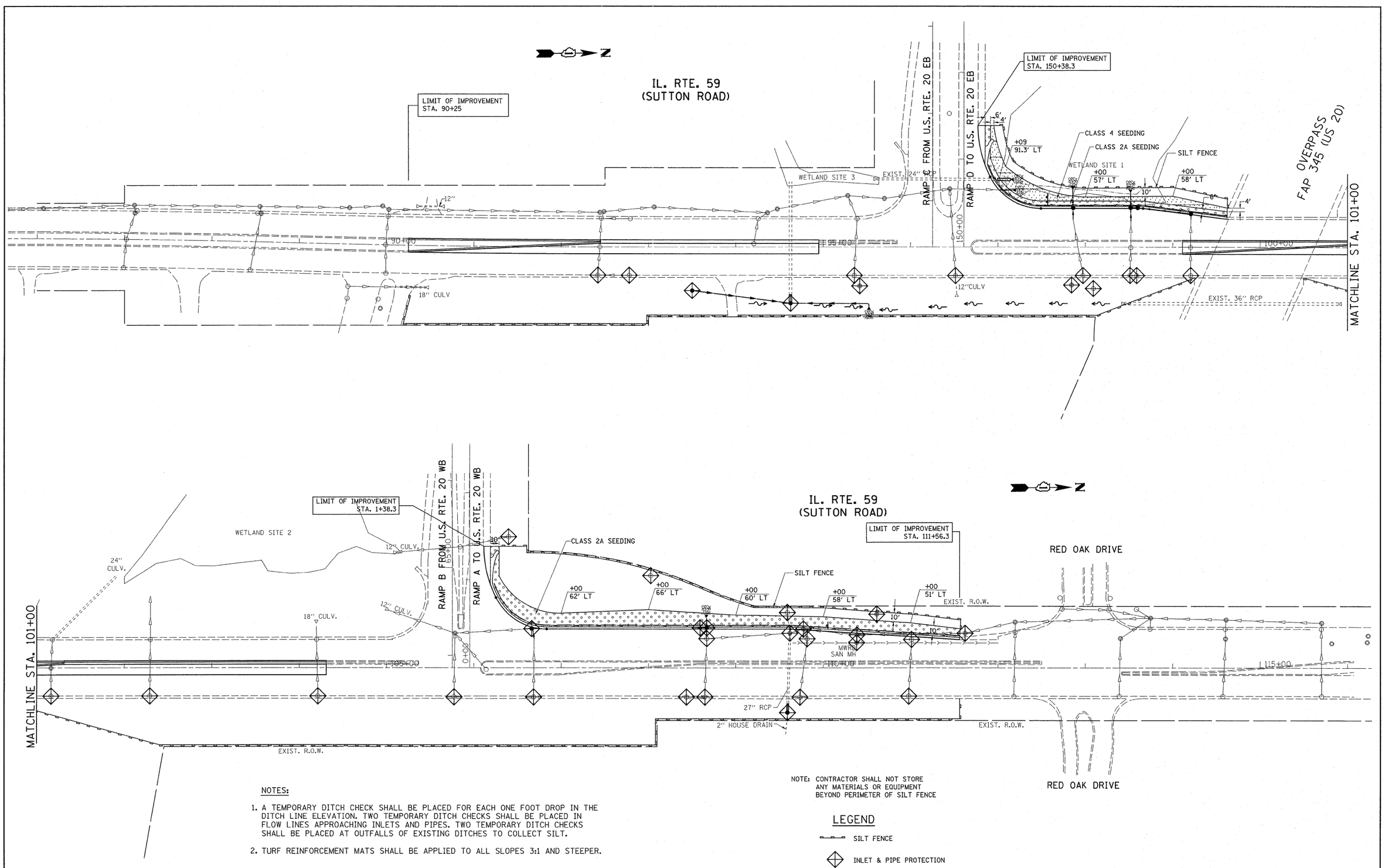
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING & PORPOSED JOINT DETAIL
IL. RTE. 59 AT U.S. RTE. 20

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7HB-K-N	COOK	82	25
		CONTRACT NO. 60K62		
	ILLINOIS	FED. AID PROJECT		



NOTES:

1. A TEMPORARY DITCH CHECK SHALL BE PLACED FOR EACH ONE FOOT DROP IN THE DITCH LINE ELEVATION. TWO TEMPORARY DITCH CHECKS SHALL BE PLACED IN FLOW LINES APPROACHING INLETS AND PIPES. TWO TEMPORARY DITCH CHECKS SHALL BE PLACED AT OUTFALLS OF EXISTING DITCHES TO COLLECT SILT.
2. TURF REINFORCEMENT MATS SHALL BE APPLIED TO ALL SLOPES 3:1 AND STEEPER.

NOTE: CONTRACTOR SHALL NOT STORE ANY MATERIALS OR EQUIPMENT BEYOND PERIMETER OF SILT FENCE

LEGEND

SILT FENCE

INLET & PIPE PROTECTION

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		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 3/16/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
IL. RTE. 59 AT U.S. RTE. 20

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	26
		CONTRACT NO. 60K62		
		ILLINOIS FED. AID PROJECT		

THE CONTRACTOR WILL BE REQUIRED TO IMPLEMENT AND MAINTAIN EROSION CONTROL MEASURES IMMEDIATELY AFTER STRIPPING OF EXISTING VEGETATION.

NO RUNOFF FROM STRIPPED AREAS WILL LEAVE THE SITE OTHER THAN THROUGH SEDIMENTATION/STILLING BASINS. THE CONTRACTOR WILL ADJUST HIS OPERATIONS AND IMPLEMENT EROSION CONTROL MEASURES ACCORDINGLY.

THE QUANTITIES SHOWN FOR TEMPORARY DITCH CHECKS ARE MEASURED AS EACH, REGARDLESS OF TYPE OR CONFIGURATION USED.

THE CONTRACTOR SHALL SURROUND ALL EARTH STOCKPILES WITH SILT FENCE AND SHALL BE PAID FOR AS PERIMETER EROSION BARRIER, EROSION CONTROL MEASURES SHALL BE INSPECTED BY THE CONTRACTOR AND ENGINEER WITHIN 24 HOURS OR ANY STORM EXCEEDING 0.5 INCH OF PRECIPITATION.

STOCKPILES OF SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE MORE THAN THREE (3) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER SILT FENCE). STOCKPILES TO REMAIN IN PLACE FOR 21 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.

ALL CONSTRUCTION ACTIVITIES SHALL BE IN ACCORDANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORM WATER PERMIT.

THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT POLLUTION OF STORM WATER AND SHALL FOLLOW IEPA & IDOT CONSTRUCTION MEMORANDUM NO. 95-60.

THE CONTRACTOR SHALL APPLY TEMPORARY EROSION CONTROL SEEDING TO ALL ERODIBLE BARE EARTH AREAS WITHIN THE CONTRACT LIMITS EACH WEEK, REGARDLESS OF WEATHER CONDITIONS OR PROGRESS OF THE WORK. UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ERODIBLE EMBANKMENT AND EXCAVATION AREAS WHERE WORK IS IN PROGRESS SHALL BE INCLUDED ON THE AREAS TO BE SEEDED. SEE SPECIAL PROVISION FOR TEMPORARY EROSION CONTROL SEEDING.

REFER TO LANDSCAPING PLAN FOR AREA TO BE SEEDED.

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL REVISED FEBRUARY 2002.

A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

ALL ADJACENT STREETS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY AND CLEANED WHEN NECESSARY.

ALL EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND AFTER EACH 1/2 " RAIN EVENT.

PRIORITY SHALL BE GIVEN TO THE COMPLETION AND STABILIZATION OF THE DETENTION AREAS. WORK IN THESE AREAS SHALL NOT BE PROLONGED IN ATTEMPT THAT ALL FINAL GRADING AND STABILIZATION CAN TAKE PLACE AT ONE TIME.

THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL.

SILT FENCE IS TO BE INSTALLED FOLLOWING THE COMPLETION AND STABILIZATION OF THE STORM WATER FACILITIES AND IS TO REMAIN IN PLACE UNTIL THE CONTRIBUTING AREA IS STABILIZED.

IN AREAS WHERE WORK IS COMPLETE, PERMANENT STABILIZATION SHALL OCCUR WITHIN 7 DAYS OF COMPLETION.

COMPLETED SLOPES SHALL BE SEEDED AND MULCHED (OR BLANKETED, IF APPLICABLE) AS THE EXCAVATION PROCEEDS TO THE EXTENT CONSIDERED DESIRABLE AND PRACTICAL. PERMANENT SEEDING SHALL BE USED WHENEVER POSSIBLE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME. NO WORK SHALL BE PERFORMED IN FLOWING WATER. WATER IN AND NEAR THE CRITICAL AREAS SHOULD BE ISOLATED FROM CONCENTRATED FLOWS OR STREAM FLOW. THE STREAM BANKS SHOULD BE STABILIZED AT THE END OF EACH DAY. ONCE WORK IN THIS AREA BEGINS, PRIORITY SHALL BE GIVEN TO THE COMPLETION OF THE WORK AND FINAL STABILIZATION OF ALL DISTURBED AREAS.

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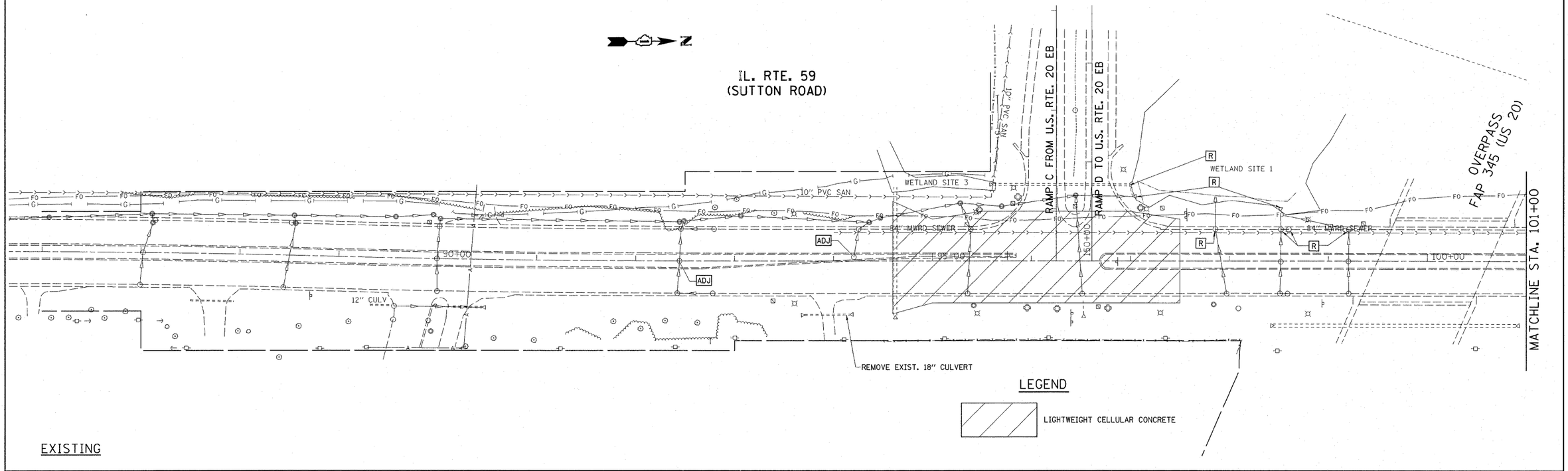
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 59 AT US ROUTE 20
EROSION CONTROL NOTES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7HB-K-N	COOK	82	27
		CONTRACT NO. 60K62		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



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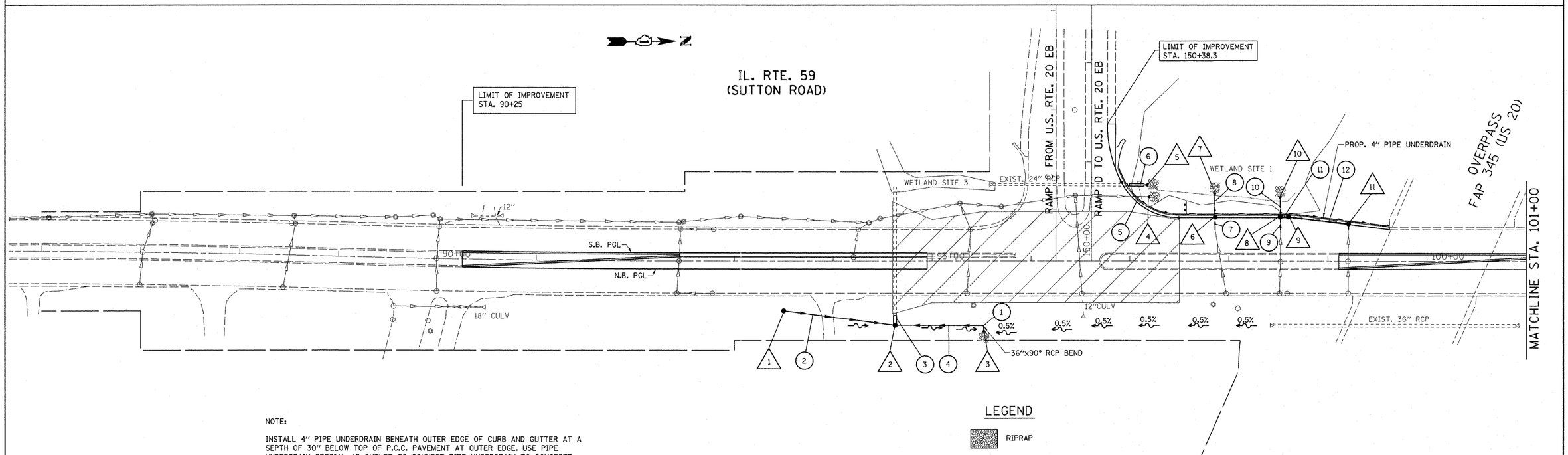

PROPOSED

NOTE:

INSTALL 4" PIPE UNDERDRAIN BENEATH OUTER EDGE OF CURB AND GUTTER AT A SEPTH OF 30" BELOW TOP OF P.C.C. PAVEMENT AT OUTER EDGE. USE PIPE UNDERDRAIN SPECIAL AS OUTLET TO CONNECT PIPE UNDERDRAIN TO CONCRETE HEADWALL AT STA. 99+00, STA. 106+20 AND STA. 109+00 OR AS DIRECTED BY THE RESIDENT ENGINEER.

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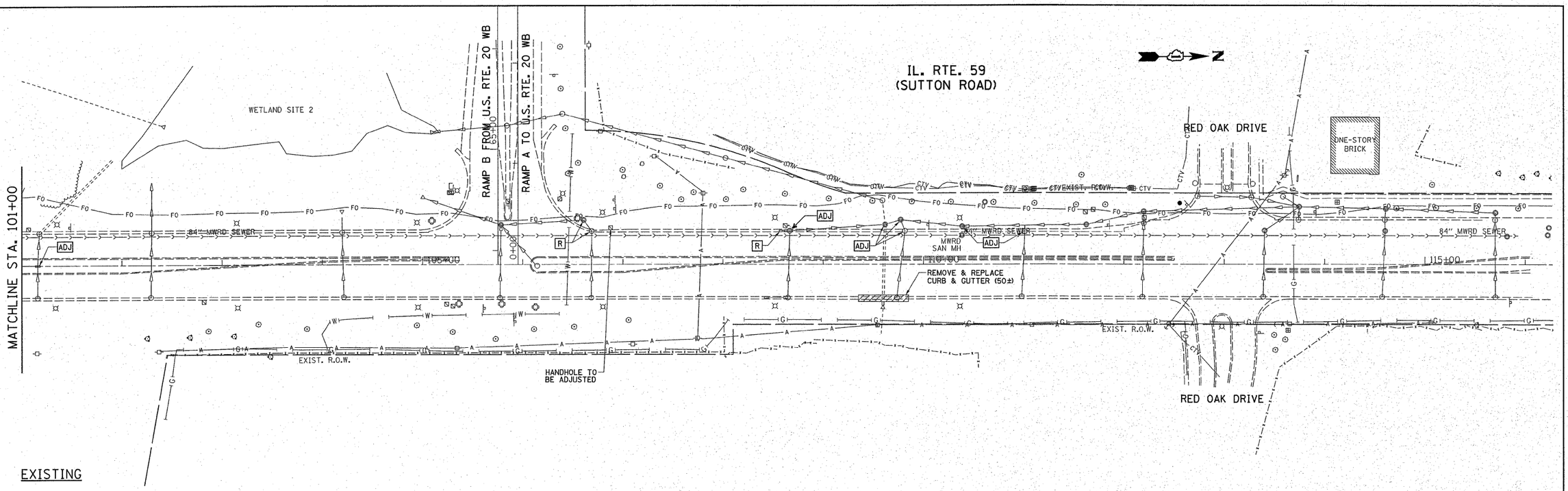
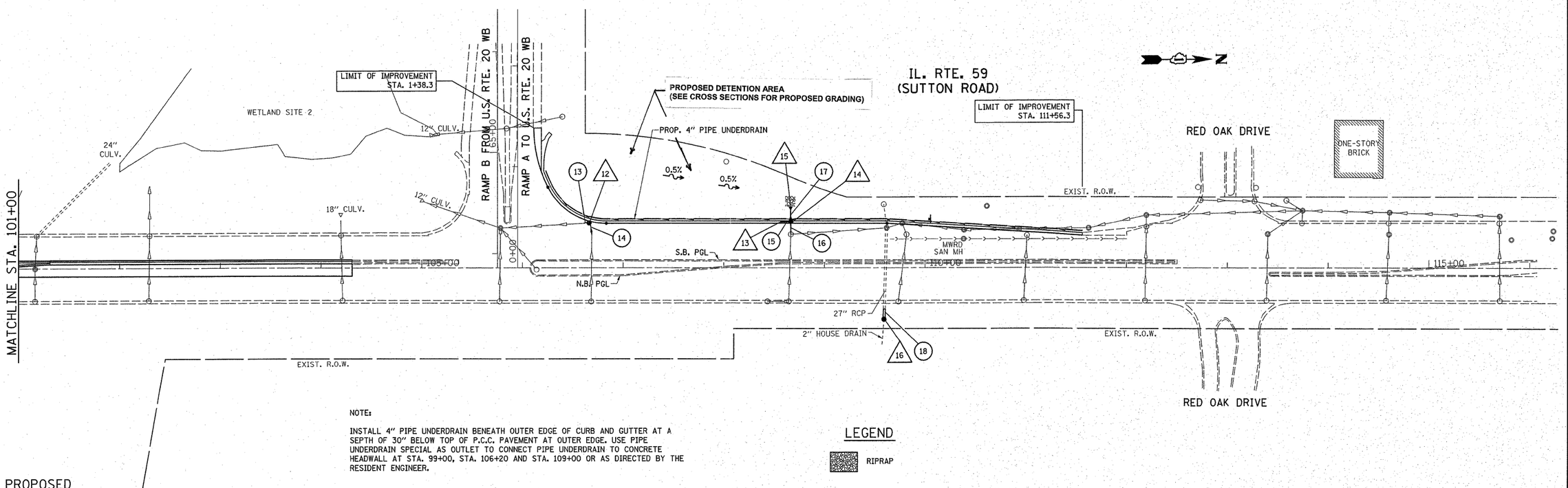
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXIST. & PROP. DRAINAGE & UTILITY PLAN
IL. RTE. 59 AT U.S. RTE. 20

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	32	28
		CONTRACT NO. 60K62		
		ILLINOIS	FED. AID PROJECT	





NOTE:

INSTALL 4" PIPE UNDERDRAIN BENEATH OUTER EDGE OF CURB AND GUTTER AT A SEPTH OF 30" BELOW TOP OF P.C.C. PAVEMENT AT OUTER EDGE. USE PIPE UNDERDRAIN SPECIAL AS OUTLET TO CONNECT PIPE UNDERDRAIN TO CONCRETE HEADWALL AT STA. 99+00, STA. 106+20 AND STA. 109+00 OR AS DIRECTED BY THE RESIDENT ENGINEER.

LEGEND

RIPRAP

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	PLOT DATE = 3/16/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXIST. & PROP. DRAINAGE & UTILITY PLAN
IL. RTE. 59 AT U.S. RTE. 20

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. TO STA.

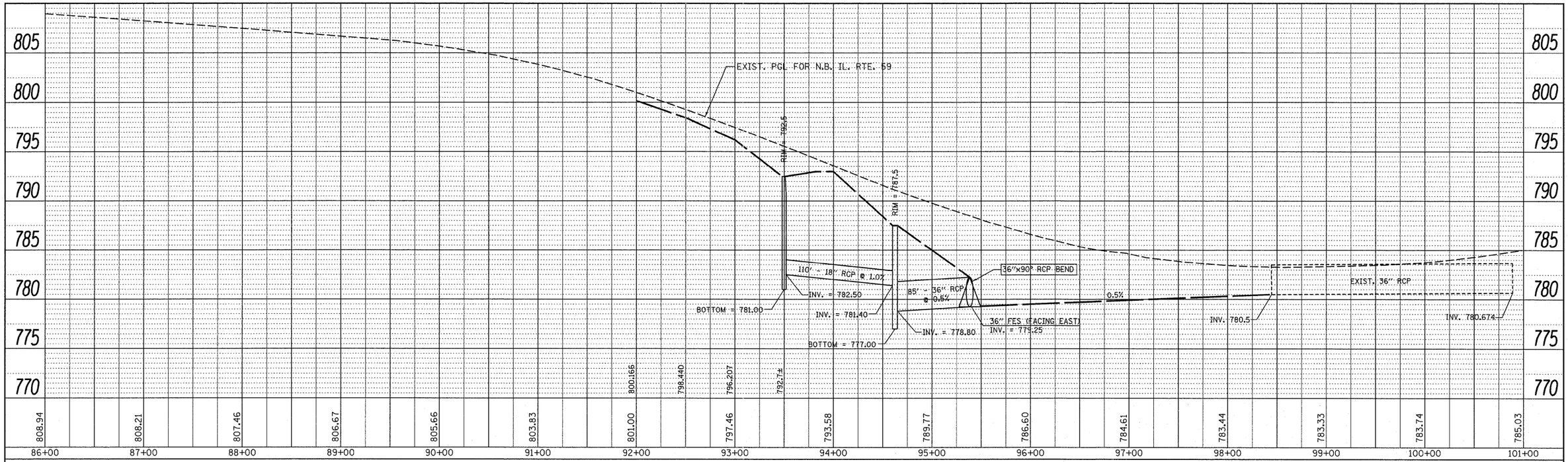
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	29
		CONTRACT NO. 60K62		
	ILLINOIS FED. AID PROJECT			

PLAN

BY	DATE

SURVEYED
PLOTTED
DRAWN
CHECKED
R.O.W. MONUMENTS
PLAT OF WAY CHECKED
CADD FILE NAME

NOTE BOOK
NO. _____

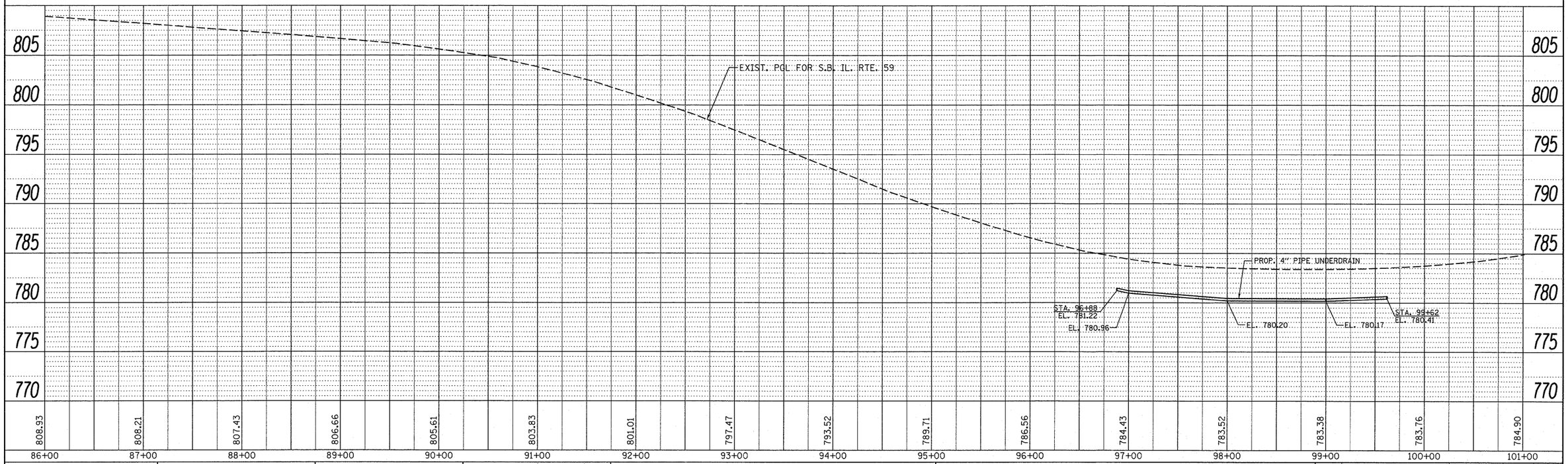


PROFILE

BY	DATE

SURVEYED
PLOTTED
DRAWN
CHECKED
R.O.W. MONUMENTS
STRUCTURE NOTATNS CHKD

NOTE BOOK
NO. _____



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	PLOT DATE = 3/16/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

N.B & S.B. DRAINAGE PROFILE
IL. RTE. 59 AT U.S. RTE. 20

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	30

CONTRACT NO. 60K62

ILLINOIS | FED. AID PROJECT

PLAN

DATE	BY

SURVEYED
PLOTTED
ABBREVIATIONS CHECKED
NOTE BOOK
RT. OF WAY CHECKED
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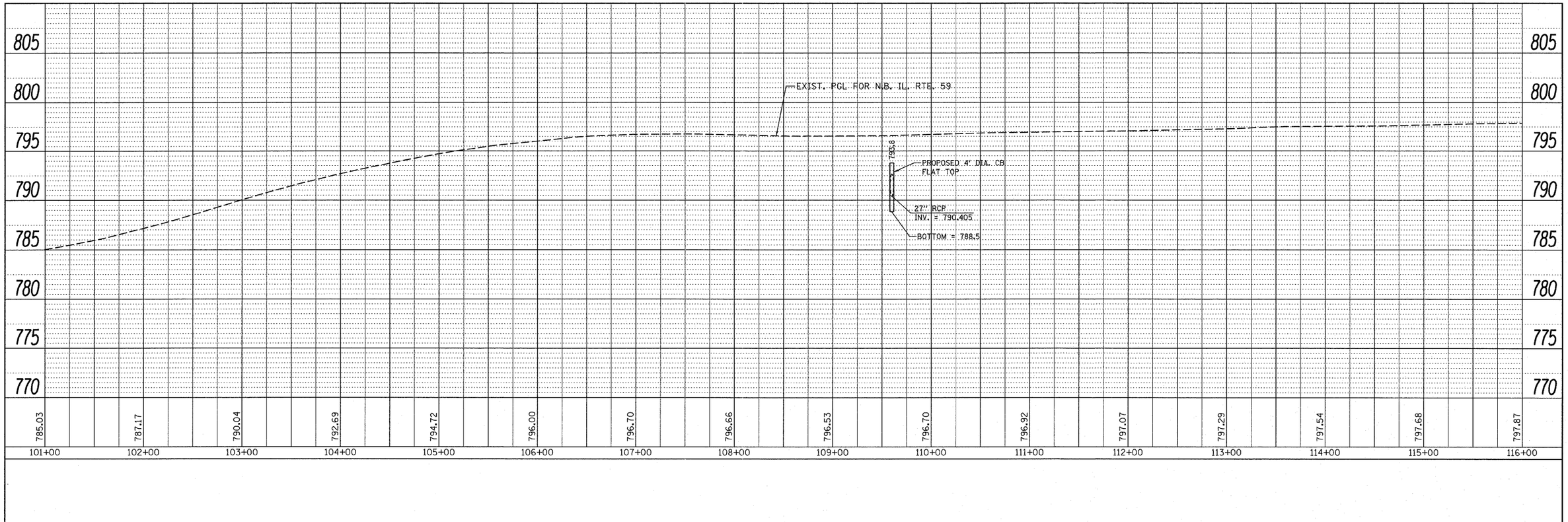
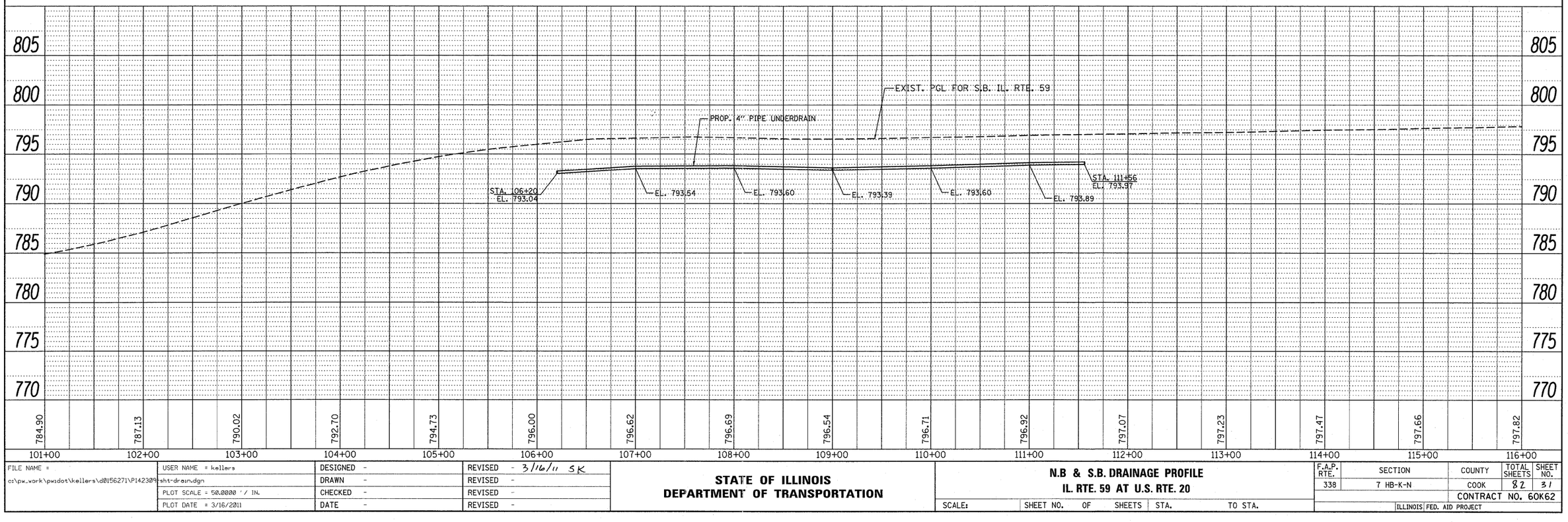


PROFILE

DATE	BY

SURVEYED
PLOTTED
ABBREVIATIONS CHECKED
NOTE BOOK
B.M. NOTED
NO. ____
STRUCTURE NOTATNS CHKD



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	PLOT DATE = 3/16/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

N.B & S.B. DRAINAGE PROFILE
IL. RTE. 59 AT U.S. RTE. 20

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	31
		CONTRACT NO. 60K62		
	ILLINOIS FED. AID PROJECT			

DRAINAGE STRUCTURES

1. CB, T-A, 4 FT DIA. W/T8G
   STA. 93+50, 50' RT
   T.G. 792.5
   INV. 782.5

2. CB, T-A, 5 FT DIA. W/T8G, FLAT TOP
   STA. 94+63, 65' RT
   T.G. 787.5
   INV. 778.8 (N)
   INV. 781.4 (S)
   INV. 778.2 (W)

3. PRC FL-END SEC, 36 INCH
   STA. 95+52, 68' RT
   INV. 799.25

4. PRC FL-END SEC, 24 INCH
   STA. 97+17, 65' LT
   INV. 779.6

5. PRC FL-END SEC, 24 INCH
   STA. 97+14, 77' LT
   INV. 777.8

6. CB, T-A, 4 FT DIA. W/T-24 F&G
   STA. 97+86, 45' LT
   T.G. 782.8
   INV. 779.7 (W)
   INV. 779.6 (E)

7. PRC FL-END SEC, 12 INCH
   STA. 97+86, 65' LT
   INV. 779.2

8. CB, T-A, 4 FT DIA. W/T-24 F&G
   STA. 98+52, 45' LT
   T.G. 782.6
   INV. 778.9 (W)
   INV. 778.9 (N)
   INV. 778.9 (E)

9. CB, T-A, 4 FT DIA. W/T-24 F&G
   STA. 98+60, 45' LT
   T.G. 782.7
   INV. 779.0 (S)
   INV. 779.1 (N)

10. PRC FL-END SEC, 12 INCH
    STA. 98+52, 62' LT
    INV. 778.8

11. CB, T-A, 4 FT DIA. W/T-24 F&G
    STA. 99+21, 38' LT
    T.G. 782.7
    INV. 779.7 (E)
    INV. 779.7 (S)

12. CB, T-A, 4 FT DIA. W/T-24 F&G
    STA. 106+67, 47' LT
    T.G. 795.8
    INV. 790.8 (E)
    INV. 790.7 (S)

13. INLET, T-A, . W/T-24 F&G
    STA. 108+59, 46' LT
    T.G. 795.8
    INV. 792.8

14. CB, T-A, 4 FT DIA. W/T-24 F&G
    STA. 108+65, 46' LT
    T.G. 795.8
    INV. 792.5 (W)
    INV. 792.5 (E)

15. PRC FL-END SEC, 12 INCH
    STA. 108+67, 57' LT
    INV. 792.6

16. CB, T-A, 4 FT DIA. W/T8G, FLAT TOP
    STA. 109+59, 50' RT
    T.G. 793.8
    INV. 790.5

DRAINAGE PIPES

1. 36" RCP, , ONE
   90° BEND
   STA. 95+50

2. 18" RCP, T-3, 110 L.F.
   STA. 93+50 - STA. 94+63
   T.B. 29 CU. YD.

3. 36" RCP, T-3, 10 L.F.
   - STA. 94+63

4. 36" RCP, T-2, 85 L.F.
   STA. 94+65 - STA. 95+50

5. 24" RCP, T-2, 15 L.F.
   STA. 97+02 - STA. 97+17
   T.B. 1.5 CU. YD.

6. 24" RCP, T-2, 15 L.F.
   STA. 97+01 - STA. 97+16

7. 12" RCP, T-2, 12 L.F.
   STA. 97+86
   T.B. 2.5 CU. YD.

8. 12" RCP, T-2, 20 L.F.
   STA. 97+86
   T.B. 1.7 CU. YD.

9. 12" RCP, T-2, 14 L.F.
   STA. 98+52
   T.B. 3 CU. YD.

10. 12" RCP, T-2, 15 L.F.
    STA. 98+52
    T.B. 1.7 CU. YD.

11. 12" RCP, T-2, 5 L.F.
    STA. 98+52 - STA. 98+57
    T.B. 1.8 CU. YD.

12. 12" RCP, T-2, 60 L.F.
    STA. 98+60 - STA. 99+20
    T.B. 12.0 CU. YD.

13. 12" RCP, T-2, 5 L.F.
    STA. 106+61 - STA. 106+66
    T.B. 1.4 CU. YD.

14. 12" RCP, T-2, 12 L.F.
    STA. 106+67
    T.B. 2.7 CU. YD.

15. 12" RCP, T-2, 5 L.F.
    STA. 108+61 - STA. 108+66
    T.B. 1.6 CU. YD.

16. 8" RCP, T-2, 12 L.F.
    STA. 108+67
    T.B. 2.5 CU. YD.

17. 12" RCP, T-2, 12 L.F.
    STA. 108+67

18. 27" RCP, T-2, 10 L.F.
    STA. 109+59

19. 12" RCP, T-2, 5 L.F.
    STA. 99+21
    T.B. 1 CU. YD.

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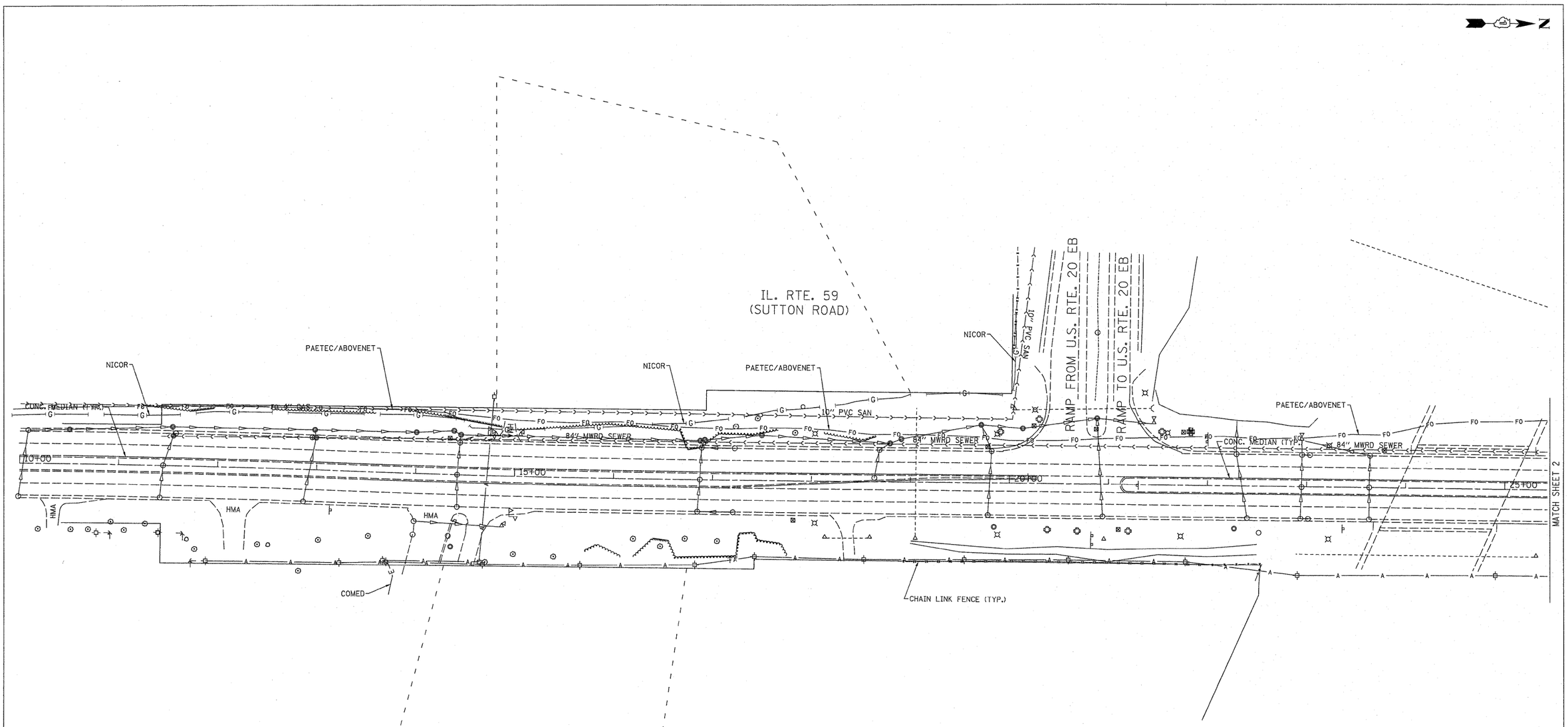
	PLOT DATE = 3/16/2011	CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED DRAINAGE STRUCTURES AND PIPES
IL. RTE. 59 AT U.S. RTE. 20

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	31A
		CONTRACT NO. 60K62		
		ILLINOIS	FED. AID PROJECT	



A AERIAL UTILITY
UNKNOWN
CTV CABLE TV
T TELEPHONE
G GAS
E ELECTRIC
W WATER
FO FIBER OPTIC
SEWER
TBE TEST HOLE

Utilities shown in color on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. TBE's SUE field investigation was performed 7/13/10 through 11/10/10. Changes to utilities after 11/10/10 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

ALL UTILITIES SHOWN IN COLOR
QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.

20 0 METERS 20 40
50 0 FEET 50 100

LICENSED PROFESSIONAL ENGINEER
KENNETH F. SLANINKA, Jr.
062-055488
STATE OF ILLINOIS
signature
11/17/10
date
license expires 11-30-11

Cardno TBE
CIVIL ENGINEERING * TRANSPORTATION * ENVIRONMENTAL * PLANNING * UTILITY ENGINEERING/LOCATING

TBE Job No. IL09510413
SUE Plan Page: 1 of 2

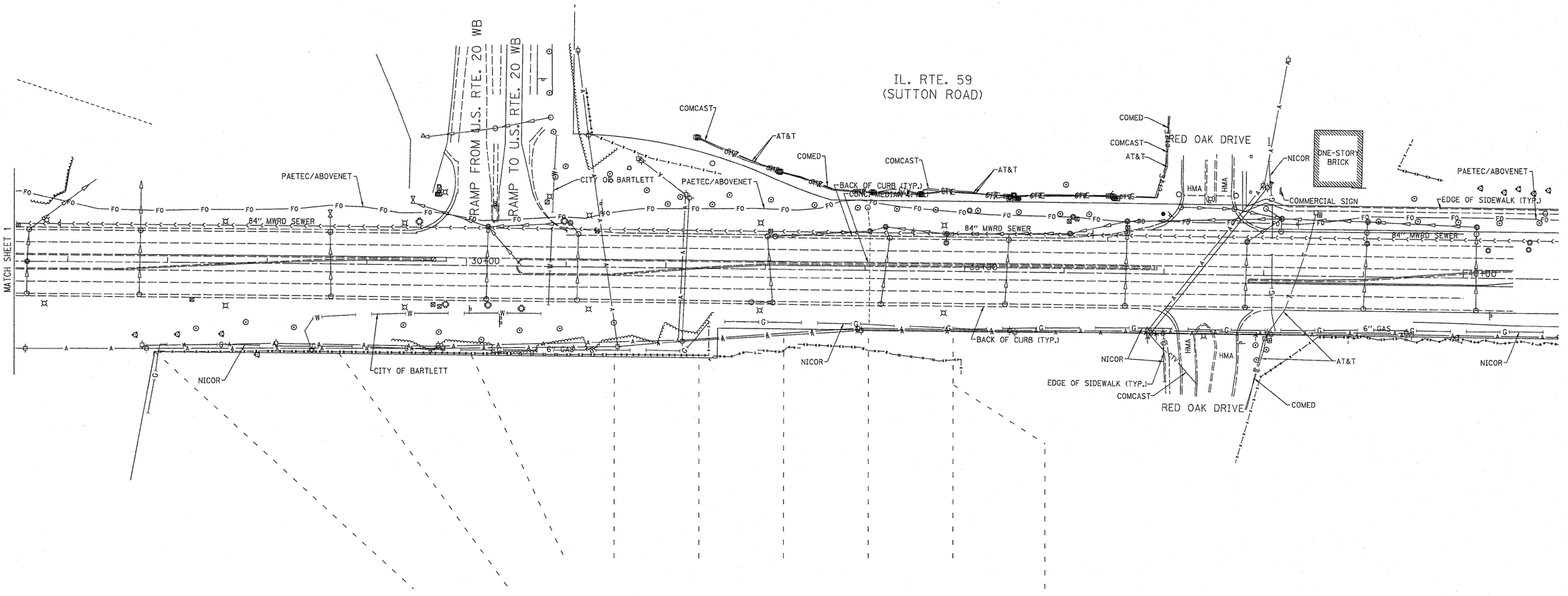
Utility Quality Level "A" : Test Hole
Utility Quality Level "B" : Designating
Utility Quality Level "C" : Research with Survey
Utility Quality Level "D" : Records Research

DESIGNED	EG	REVISED
DRAWN	KLC	REVISED
CHECKED	KFS	REVISED
DATE	11/17/10	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RT. 59 at US RT. 20 in Bartlett

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	THB-K-N	Cook	82	32
		Contract No. 60K62		
FED. ROAD DIST. NO.	ILLINOIS	IDOT Project No.		



A — A	AERIAL UTILITY
	UNKNOWN
CTV — CTV	CABLE TV
T — T	TELEPHONE
G —	GAS
E — E	ELECTRIC
W —	WATER
FO — FO	FIBER OPTIC
	SEWER
	TBE TEST HOLE

Utility Quality Level "A" : Test Hole
Utility Quality Level "B" : Designating
Utility Quality Level "C" : Research with Survey
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Utilities shown in color on these plans as depicted in the legend have been investigated by Cardno TBE in accordance with SUE Industry Standards. All other information shown has been provided to Cardno TBE by others. TBE's SUE field investigation was performed 7/13/10 through 11/10/10. Changes to utilities after 11/10/10 may have been made and therefore may result in variances from this plan. Consideration should be given to updating this plan if deemed advisable prior to final design and construction.

ALL UTILITIES SHOWN IN COLOR
QUALITY LEVEL "B" UNLESS NOTED OTHERWISE.

20 0 METERS 20 40
50 0 FEET 50 100

KENNETH F. SLANINKA, Jr.
062-055488
LICENSED PROFESSIONAL ENGINEER
STATE OF ILLINOIS
signature
11/17/10
date
license expires 11-30-11

Cardno TBE
CIVIL ENGINEERING * TRANSPORTATION * ENVIRONMENTAL * PLANNING * UTILITY ENGINEERING/LOCATING

TBE Job No. IL09510413
SUE Plan Page: 2 of 2

DESIGNED	EG	REVISED
DRAWN	KLC	REVISED
CHECKED	KBS	REVISED
DATE	11/17/10	REVISED

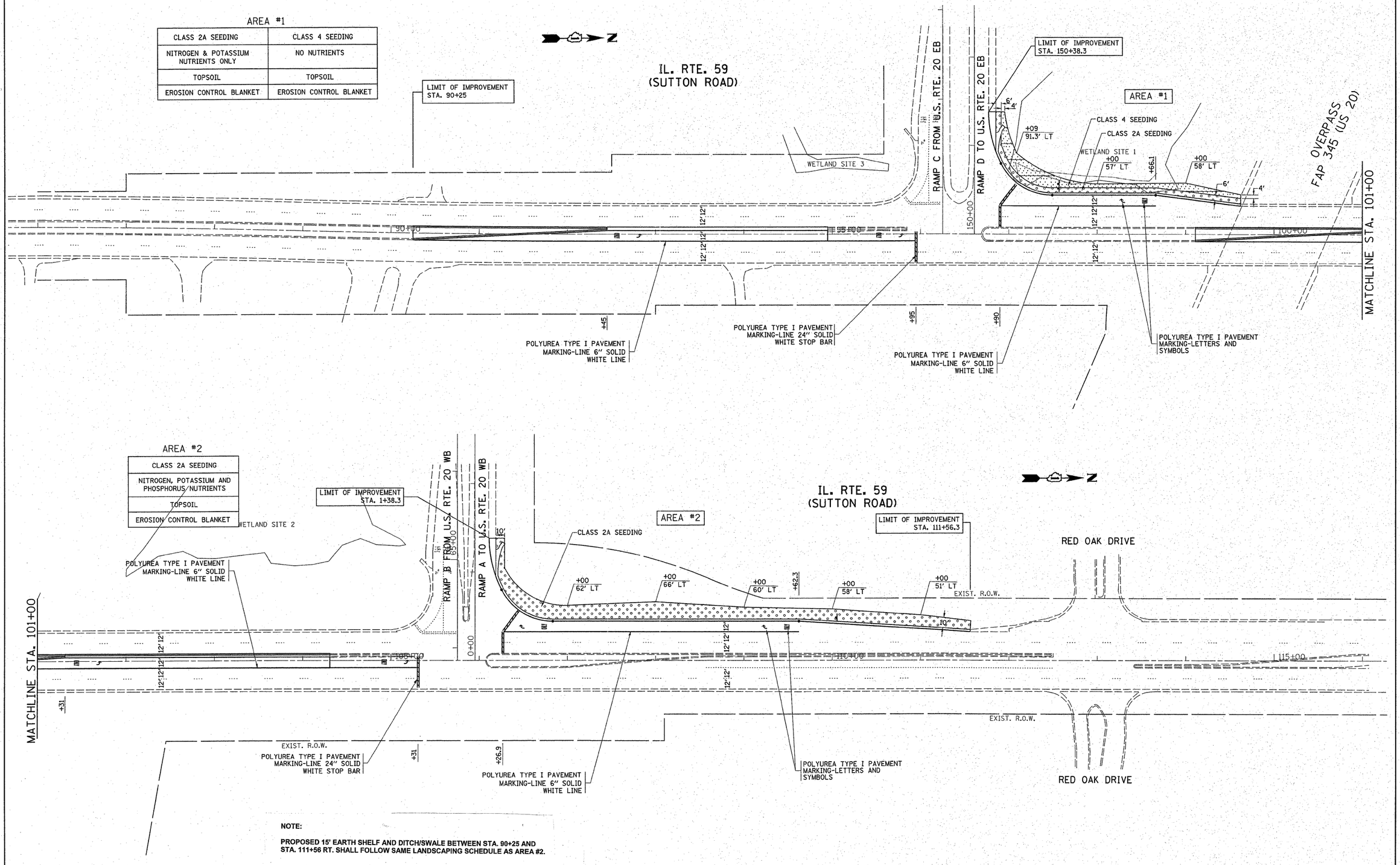
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RT. 59 at US RT. 20 in Bartlett

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	THB-K-N	Cook	82	33
		Contract No. 60K62		
FED. ROAD DIST. NO.	ILLINOIS	IDOT Project No.		

AREA #1

CLASS 2A SEEDING	CLASS 4 SEEDING
NITROGEN & POTASSIUM NUTRIENTS ONLY	NO NUTRIENTS
TOPSOIL	TOPSOIL
EROSION CONTROL BLANKET	EROSION CONTROL BLANKET



AREA #2

CLASS 2A SEEDING
NITROGEN, POTASSIUM AND PHOSPHORUS NUTRIENTS
TOPSOIL
EROSION CONTROL BLANKET

NOTE:

PROPOSED 15' EARTH SHELF AND DITCH/SWALE BETWEEN STA. 90+25 AND STA. 111+56 RT. SHALL FOLLOW SAME LANDSCAPING SCHEDULE AS AREA #2.

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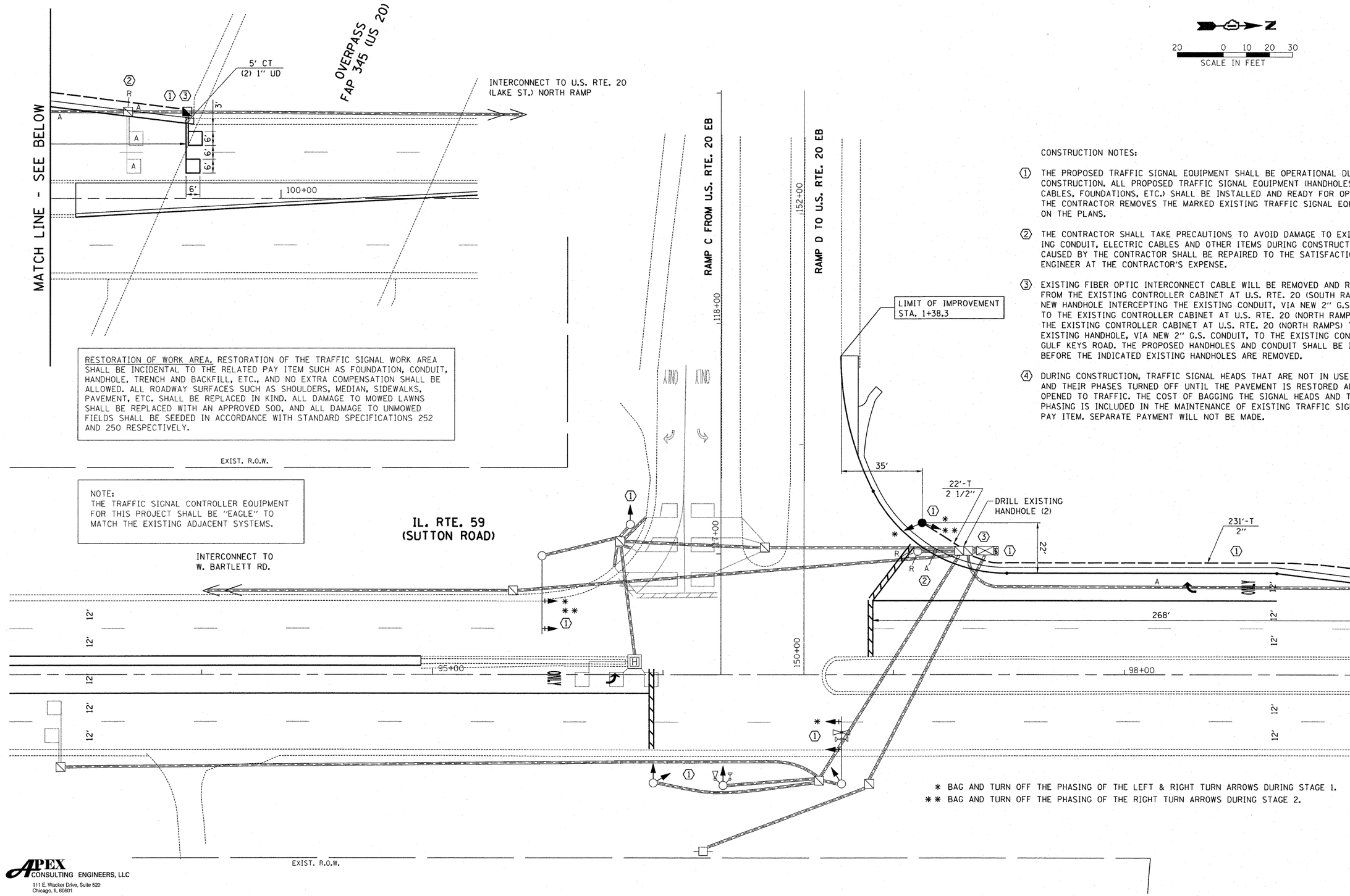
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 3/16/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND LANDSCAPING PLAN
IL. RTE. 59 AT U.S. RTE. 20

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	34
		CONTRACT NO. 60K62		
		ILLINOIS FED. AID PROJECT		



CONSTRUCTION NOTES:

(1) THE PROPOSED TRAFFIC SIGNAL EQUIPMENT SHALL BE OPERATIONAL DURING ROADWAY CONSTRUCTION. ALL PROPOSED TRAFFIC SIGNAL EQUIPMENT (HANDHOLES, CONDUIT, CABLES, FOUNDATIONS, ETC.) SHALL BE INSTALLED AND READY FOR OPERATION BEFORE THE CONTRACTOR REMOVES THE MARKED EXISTING TRAFFIC SIGNAL EQUIPMENT SHOWN ON THE PLANS.

(2) THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID DAMAGE TO EXISTING REMAINING CONDUIT, ELECTRIC CABLES AND OTHER ITEMS DURING CONSTRUCTION. DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

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(4) DURING CONSTRUCTION, TRAFFIC SIGNAL HEADS THAT ARE NOT IN USE SHALL BE BAGGED AND THEIR PHASES TURNED OFF UNTIL THE PAVEMENT IS RESTORED AND READY TO BE OPENED TO TRAFFIC. THE COST OF BAGGING THE SIGNAL HEADS AND TURNING OFF THE PHASING IS INCLUDED IN THE MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.

* BAG AND TURN OFF THE PHASING OF THE LEFT & RIGHT TURN ARROWS DURING STAGE 1.
** BAG AND TURN OFF THE PHASING OF THE RIGHT TURN ARROWS DURING STAGE 2.

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Chicago, IL 60601

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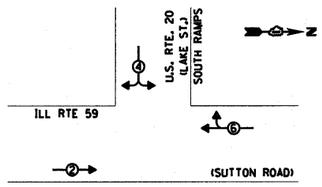
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC SIGNAL MODERNIZATION – STAGING PLAN
IL. RTE. 59 AT U.S. RTE. 20 SOUTH RAMPS

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	35
		CONTRACT NO. 60K62		
		ILLINOIS FED. AID PROJECT		

CONTROLLER SEQUENCE - STAGE 1

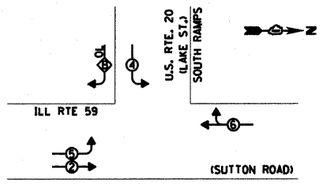


PHASE DESIGNATION DIAGRAM

LEGEND

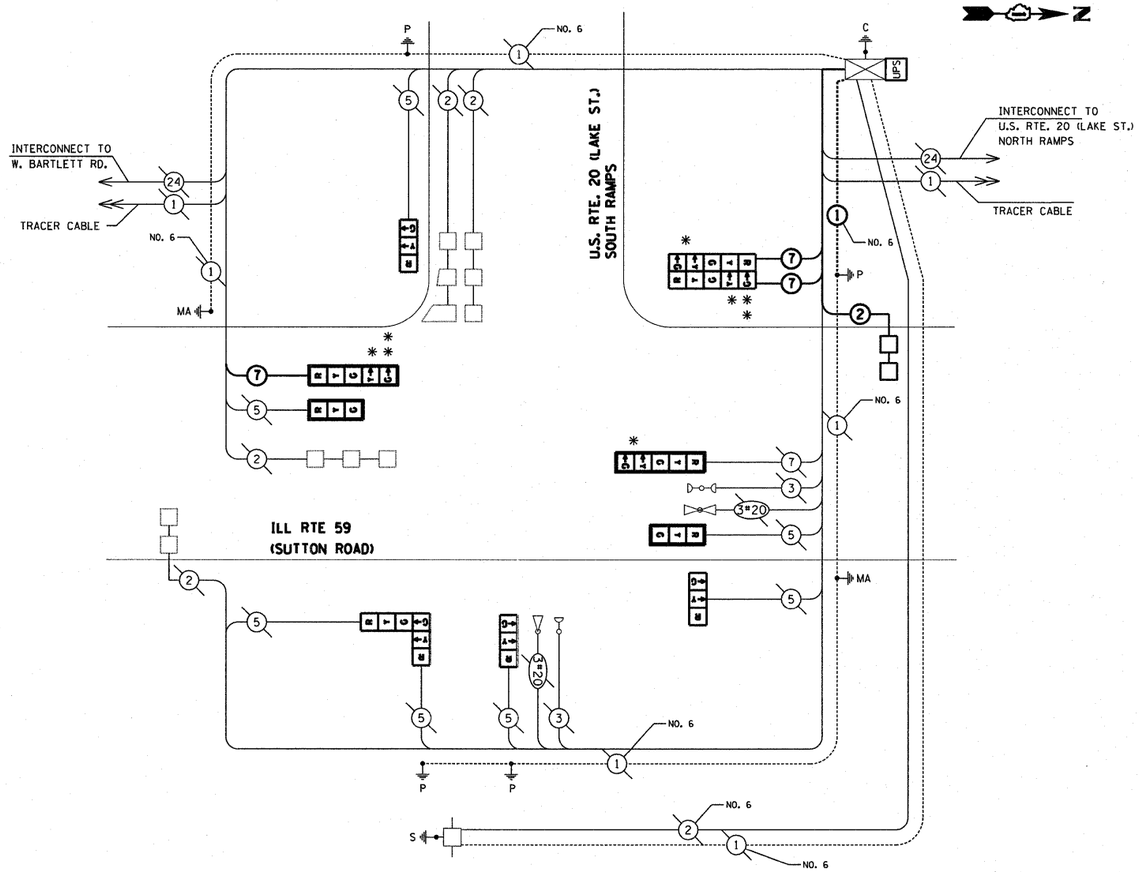
- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OL — OVERLAP
- PEDESTRIAN PHASE
- • — NUMBER REFERS TO ASSOCIATED PHASE

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
B	=	4	+	5



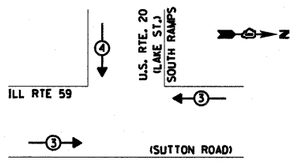
CABLE PLAN

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

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

THE ENDS OF THE TRACER CABLES SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINETS.

EMERGENCY VEHICLE PREEMPTION SEQUENCE STAGE 1 & 2



PROPOSED EMERGENCY VEHICLE PREEMPTOR		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓ →

* BAG AND TURN OFF THE PHASING OF THE LEFT & RIGHT TURN ARROWS DURING STAGE 1.
** BAG AND TURN OFF THE PHASING OF THE RIGHT TURN ARROWS DURING STAGE 2.

I.D.O.T. TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE
TYPE	NO. LAMPS	X	WATTAGE INCAND. / LED	% OPERATION	
SIGNAL (RED)	11		17	0.50	93.50
(YELLOW)	11		25	0.25	68.75
(GREEN)	11		15	0.25	41.25
ARROW	8		12	0.10	9.60
PED. SIGNAL	-		25	1.00	-
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN	-		25	0.05	-
FLASHER				0.05	
				TOTAL =	313.10

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAY/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: _____
PHONE: _____
COMPANY: COMMONWEALTH EDISON

APEX CONSULTING ENGINEERS, LLC
111 E. Wacker Drive, Suite 520
Chicago, IL 60601

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	PLOT DATE = 2/15/2011	DATE - 1/10/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. RTE. 59 AT U.S. RTE. 20 SOUTH RAMPS – STAGING
CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY PREEMPTION SEQUENCE

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	36
		CONTRACT NO. 60K62		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

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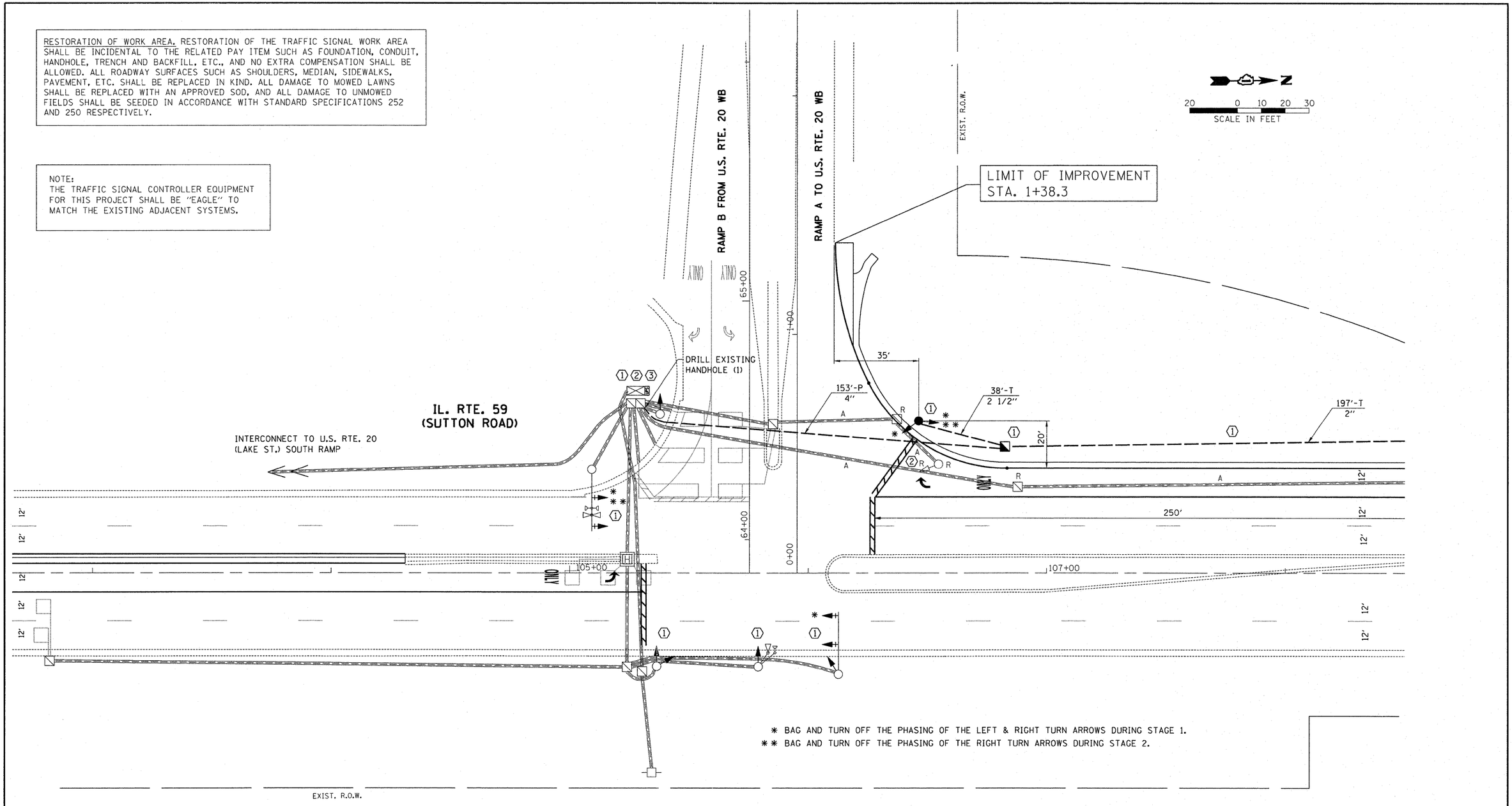

CONSTRUCTION NOTES:

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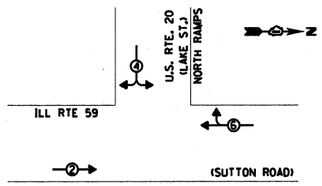
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC SIGNAL MODERNIZATION – STAGING PLAN
IL. RTE. 59 AT U.S. RTE. 20 NORTH RAMPS

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	37
		CONTRACT NO. 60K62		
	ILLINOIS FED. AID PROJECT			

CONTROLLER SEQUENCE - STAGE 1

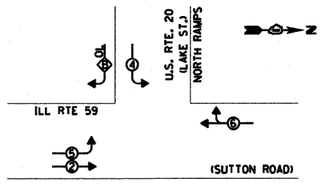


PHASE DESIGNATION DIAGRAM

LEGEND

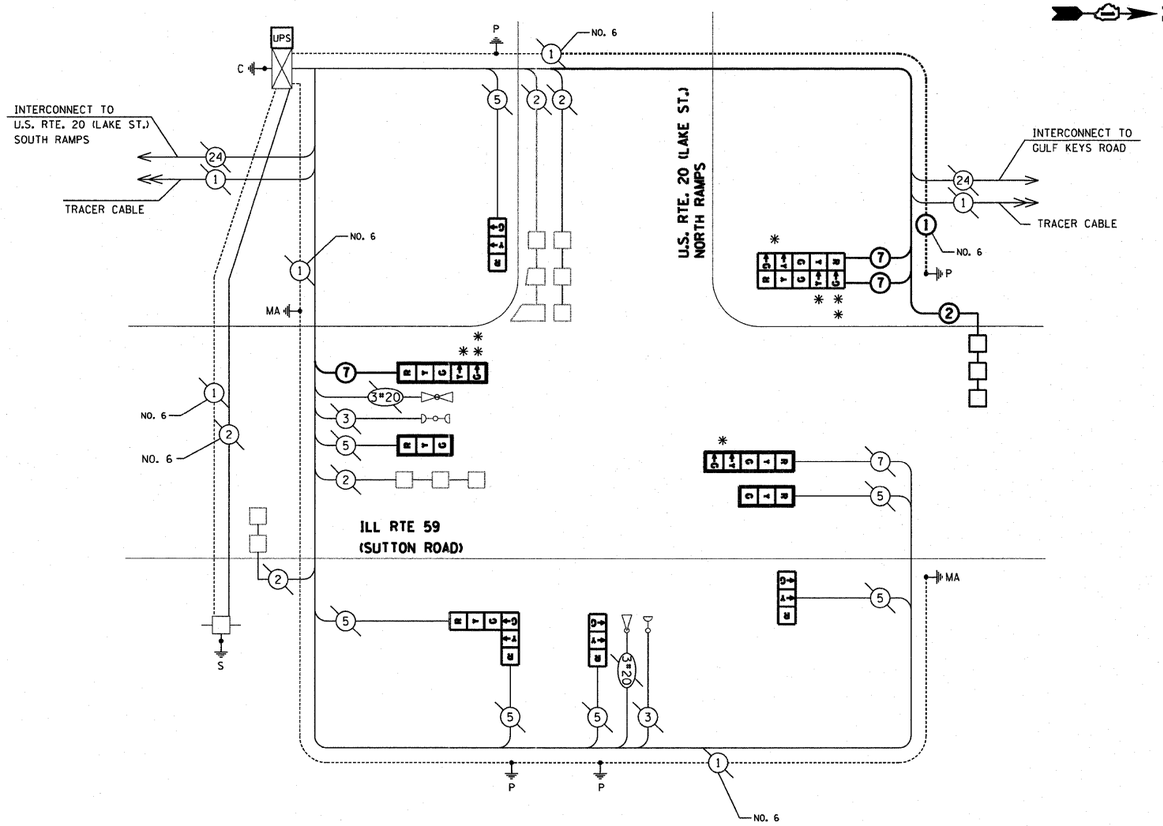
- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

CONTROLLER SEQUENCE - STAGE 2



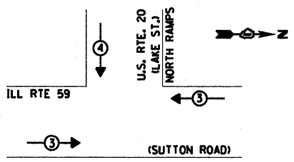
PHASE DESIGNATION DIAGRAM

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
B	=	4	+	5



CABLE PLAN

EMERGENCY VEHICLE PREEMPTION SEQUENCE STAGE 1 & 2



PROPOSED EMERGENCY VEHICLE PREEMPTOR		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↔

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I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	X	WATTAGE INCAND.	WATTAGE LED	X	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	11			17		0.50	93.50
(YELLOW)	11			25		0.25	68.75
(GREEN)	11			15		0.25	41.25
ARROW	8			12		0.10	9.60
PED. SIGNAL	-			25		1.00	-
CONTROLLER	1			100		1.00	100.00
ILLUM. SIGN	-			25		0.05	-
FLASHER						0.05	
ENERGY COSTS TO:						TOTAL =	313.10

ILLINOIS DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAY/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: _____
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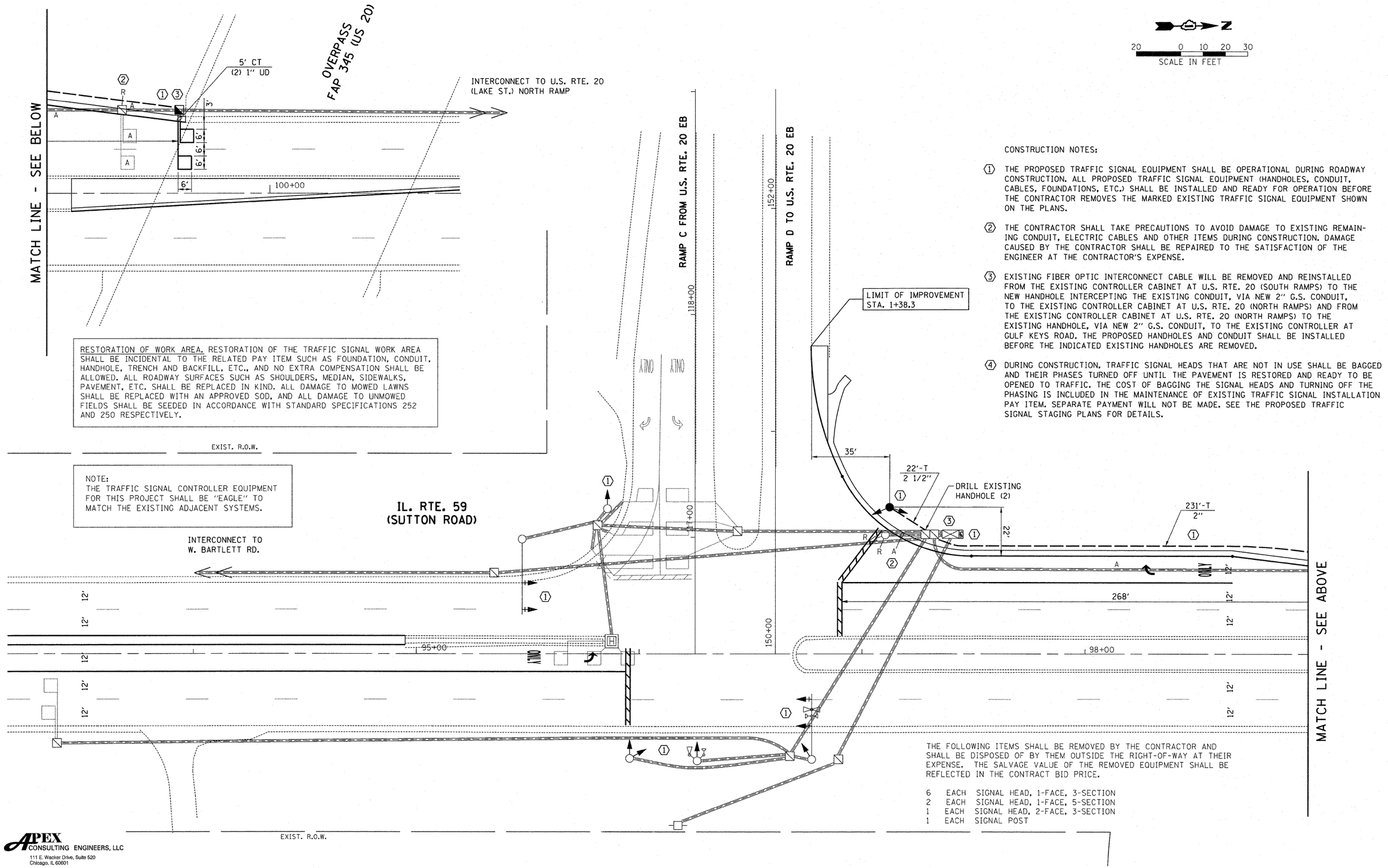
	PLOT DATE = 2/15/2011	DATE - 1/10/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. RTE. 59 AT U.S. RTE. 20 NORTH RAMPS – STAGING
CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY PREEMPTION SEQUENCE

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	38
		CONTRACT NO. 60K62		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

6	EACH	SIGNAL HEAD, 1-FACE, 3-SECTION
2	EACH	SIGNAL HEAD, 1-FACE, 5-SECTION
1	EACH	SIGNAL HEAD, 2-FACE, 3-SECTION
1	EACH	SIGNAL POST

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	PLOT DATE = 2/22/2011	DATE - 1/10/2011	REVISED -

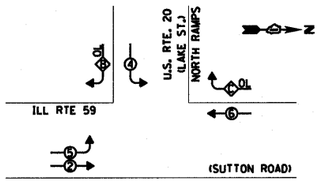
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC SIGNAL MODERNIZATION PLAN
IL. RTE. 59 AT U.S. RTE. 20 SOUTH RAMPS

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	39
		CONTRACT NO. 60K62		
		ILLINOIS FED. AID PROJECT		

CONTROLLER SEQUENCE



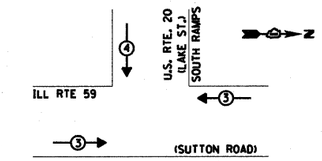
LEGEND

- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

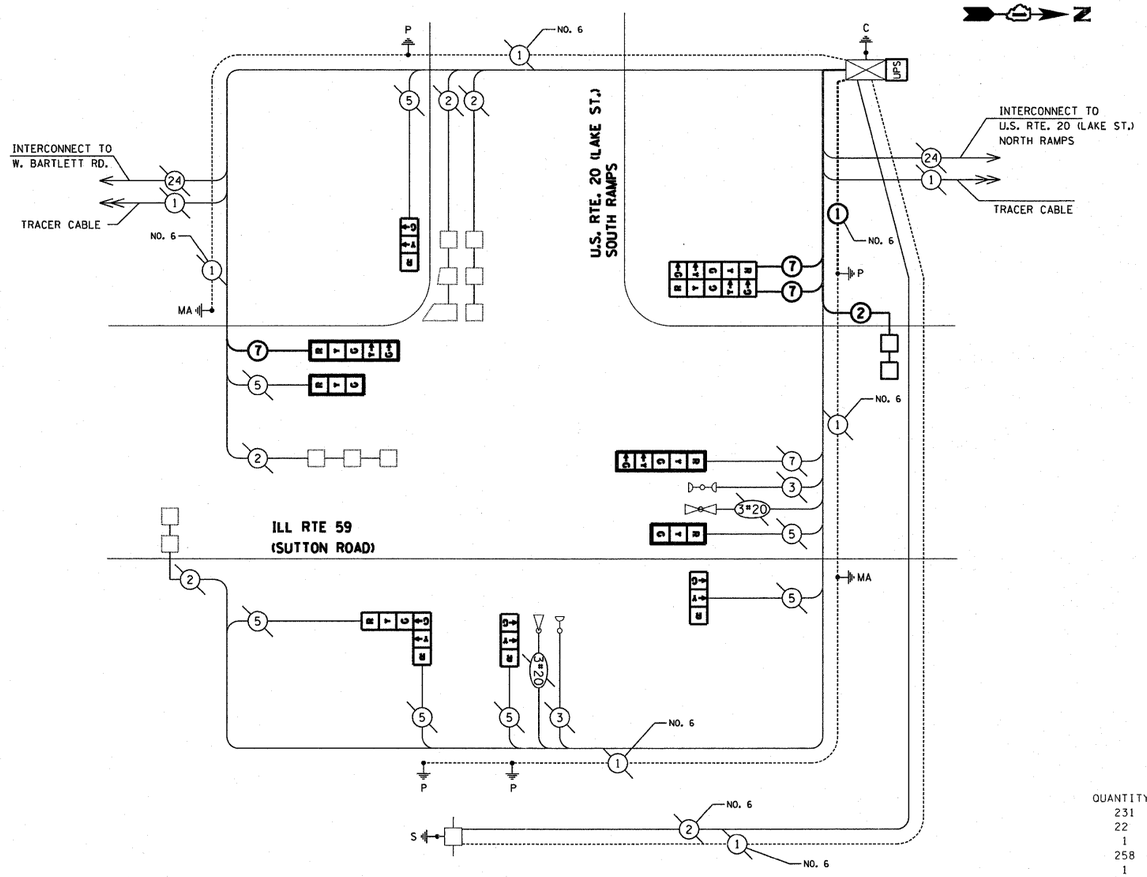
PHASE DESIGNATION DIAGRAM

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
B	=	4	+	5
C	=	6	+	4

EMERGENCY VEHICLE PREEMPTION SEQUENCE



PROPOSED EMERGENCY VEHICLE PREEMPTOR		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓ ←



CABLE PLAN

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE:
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THE ENDS OF THE TRACER CABLES SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINETS.

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
231	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
22	FOOT	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL
1	EACH	HANDHOLE
258	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
395	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
270	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1-PAIR
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
4	FOOT	CONCRETE FOUNDATION, TYPE A
2	EACH	DRILL EXISTING HANDHOLE
2	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED
3	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, L.E.D., 2-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, L.E.D., 2-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
80	FOOT	DETECTOR LOOP, TYPE I
270	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
1	EACH	REMOVE EXISTING HANDHOLE
1	EACH	REMOVE EXISTING CONCRETE FOUNDATION
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
1	EACH	UNINTERRUPTIBLE POWER SUPPLY
50	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
1	EACH	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1

I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	X	WATTAGE INCAND.	LED	X	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	11			17		0.50	93.50
(YELLOW)	11			25		0.25	68.75
(GREEN)	11			15		0.25	41.25
ARROW	8			12		0.10	9.60
PED. SIGNAL	-			25		1.00	-
CONTROLLER	1			100		1.00	100.00
ILLUM. SIGN	-			25		0.05	-
FLASHER						0.05	
						TOTAL =	313.10

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAY/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: _____
PHONE:
COMPANY: COMMONWEALTH EDISON

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111 E. Wacker Drive, Suite 520
Chicago, IL 60601

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	PLOT DATE = 2/22/2011	DATE - 1/10/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. RTE. 59 AT U.S. RTE. 20 SOUTH RAMPS
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY PREEMPTION SEQUENCE

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

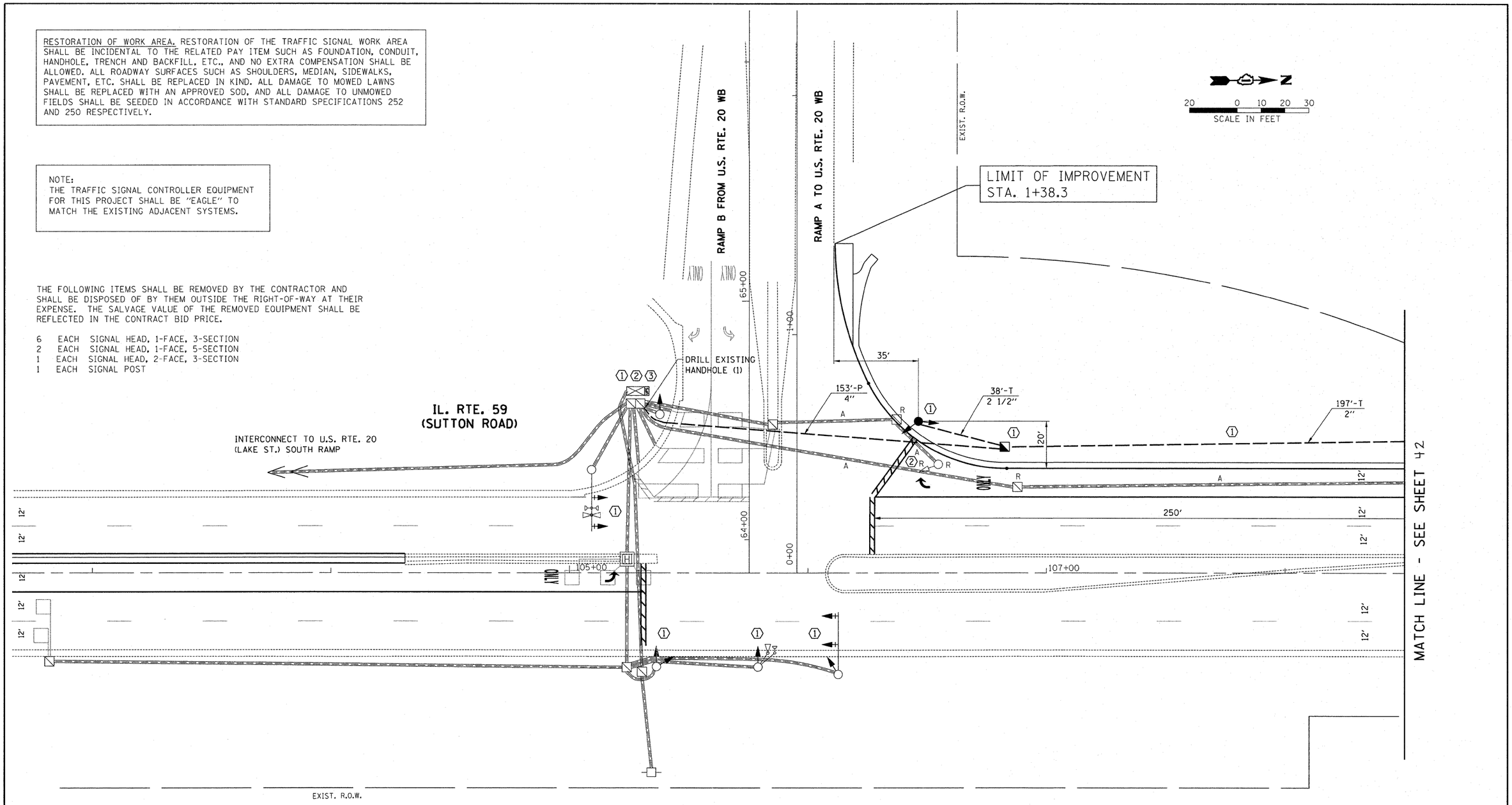
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	40
		CONTRACT NO. 60K62		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

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

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

6 EACH SIGNAL HEAD, 1-FACE, 3-SECTION
2 EACH SIGNAL HEAD, 1-FACE, 5-SECTION
1 EACH SIGNAL HEAD, 2-FACE, 3-SECTION
1 EACH SIGNAL POST



CONSTRUCTION NOTES:

(1) THE PROPOSED TRAFFIC SIGNAL EQUIPMENT SHALL BE OPERATIONAL DURING ROADWAY CONSTRUCTION. ALL PROPOSED TRAFFIC SIGNAL EQUIPMENT (HANDHOLES, CONDUIT, CABLES, FOUNDATIONS, ETC.) SHALL BE INSTALLED AND READY FOR OPERATION BEFORE THE CONTRACTOR REMOVES THE MARKED EXISTING TRAFFIC SIGNAL EQUIPMENT SHOWN ON THE PLANS.

(2) THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID DAMAGE TO EXISTING REMAINING CONDUIT, ELECTRIC CABLES AND OTHER ITEMS DURING CONSTRUCTION. DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

(3) EXISTING FIBER OPTIC INTERCONNECT CABLE WILL BE REMOVED AND REINSTALLED FROM THE EXISTING CONTROLLER CABINET AT U.S. RTE. 20 (SOUTH RAMPS) TO THE NEW HANDHOLE INTERCEPTING THE EXISTING CONDUIT, VIA NEW 2" G.S. CONDUIT, TO THE EXISTING CONTROLLER CABINET AT U.S. RTE. 20 (NORTH RAMPS) AND FROM THE EXISTING CONTROLLER CABINET AT U.S. RTE. 20 (NORTH RAMPS) TO THE EXISTING HANDHOLE, VIA NEW 2" G.S. CONDUIT, TO THE EXISTING CONTROLLER AT GULF KEYS ROAD. THE PROPOSED HANDHOLES AND CONDUIT SHALL BE INSTALLED BEFORE THE INDICATED EXISTING HANDHOLES ARE REMOVED.

(4) DURING CONSTRUCTION, TRAFFIC SIGNAL HEADS THAT ARE NOT IN USE SHALL BE BAGGED AND THEIR PHASES TURNED OFF UNTIL THE PAVEMENT IS RESTORED AND READY TO BE OPENED TO TRAFFIC. THE COST OF BAGGING THE SIGNAL HEADS AND TURNING OFF THE PHASING IS INCLUDED IN THE MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE. SEE THE PROPOSED TRAFFIC SIGNAL STAGING PLANS FOR DETAILS.

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	PLOT DATE = 2/22/2011	DATE - 1/10/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC SIGNAL MODERNIZATION PLAN
IL. RTE. 59 AT U.S. RTE. 20 NORTH RAMPS

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	41
		CONTRACT NO. 60K62		
	ILLINOIS FED. AID PROJECT			

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

CONSTRUCTION NOTES:

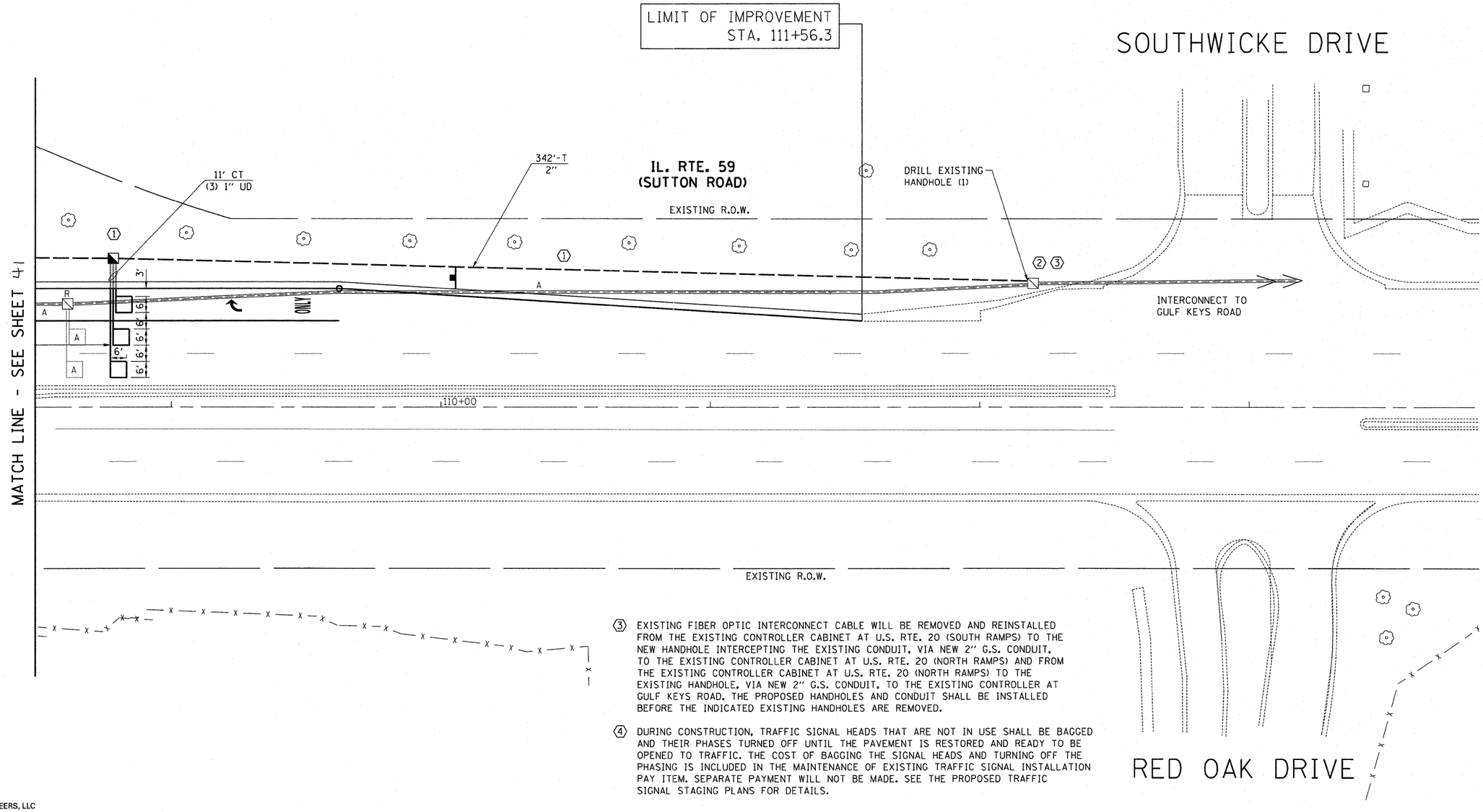
① THE PROPOSED TRAFFIC SIGNAL EQUIPMENT SHALL BE OPERATIONAL DURING ROADWAY CONSTRUCTION. ALL PROPOSED TRAFFIC SIGNAL EQUIPMENT (HANDHOLES, CONDUIT, CABLES, FOUNDATIONS, ETC.) SHALL BE INSTALLED AND READY FOR OPERATION BEFORE THE CONTRACTOR REMOVES THE MARKED EXISTING TRAFFIC SIGNAL EQUIPMENT SHOWN ON THE PLANS.

② THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID DAMAGE TO EXISTING REMAINING CONDUIT, ELECTRIC CABLES AND OTHER ITEMS DURING CONSTRUCTION. DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

N

20 0 10 20 30

SCALE IN FEET



③ EXISTING FIBER OPTIC INTERCONNECT CABLE WILL BE REMOVED AND REINSTALLED FROM THE EXISTING CONTROLLER CABINET AT U.S. RTE. 20 (SOUTH RAMPS) TO THE NEW HANDHOLE INTERCEPTING THE EXISTING CONDUIT, VIA NEW 2" G.S. CONDUIT, TO THE EXISTING CONTROLLER CABINET AT U.S. RTE. 20 (NORTH RAMPS) AND FROM THE EXISTING CONTROLLER CABINET AT U.S. RTE. 20 (NORTH RAMPS) TO THE EXISTING HANDHOLE, VIA NEW 2" G.S. CONDUIT, TO THE EXISTING CONTROLLER AT GULF KEYS ROAD. THE PROPOSED HANDHOLES AND CONDUIT SHALL BE INSTALLED BEFORE THE INDICATED EXISTING HANDHOLES ARE REMOVED.

④ DURING CONSTRUCTION, TRAFFIC SIGNAL HEADS THAT ARE NOT IN USE SHALL BE BAGGED AND THEIR PHASES TURNED OFF UNTIL THE PAVEMENT IS RESTORED AND READY TO BE OPENED TO TRAFFIC. THE COST OF BAGGING THE SIGNAL HEADS AND TURNING OFF THE PHASING IS INCLUDED IN THE MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE. SEE THE PROPOSED TRAFFIC SIGNAL STAGING PLANS FOR DETAILS.

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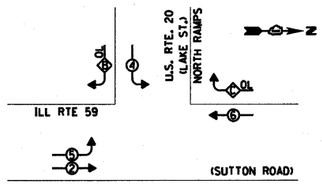
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED TRAFFIC SIGNAL MODERNIZATION PLAN
IL. RTE. 59 AT U.S. RTE. 20 NORTH RAMPS

SCALE: 1"=20' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	42
		CONTRACT NO. 60K62		
	ILLINOIS	FED. AID PROJECT		

CONTROLLER SEQUENCE



LEGEND

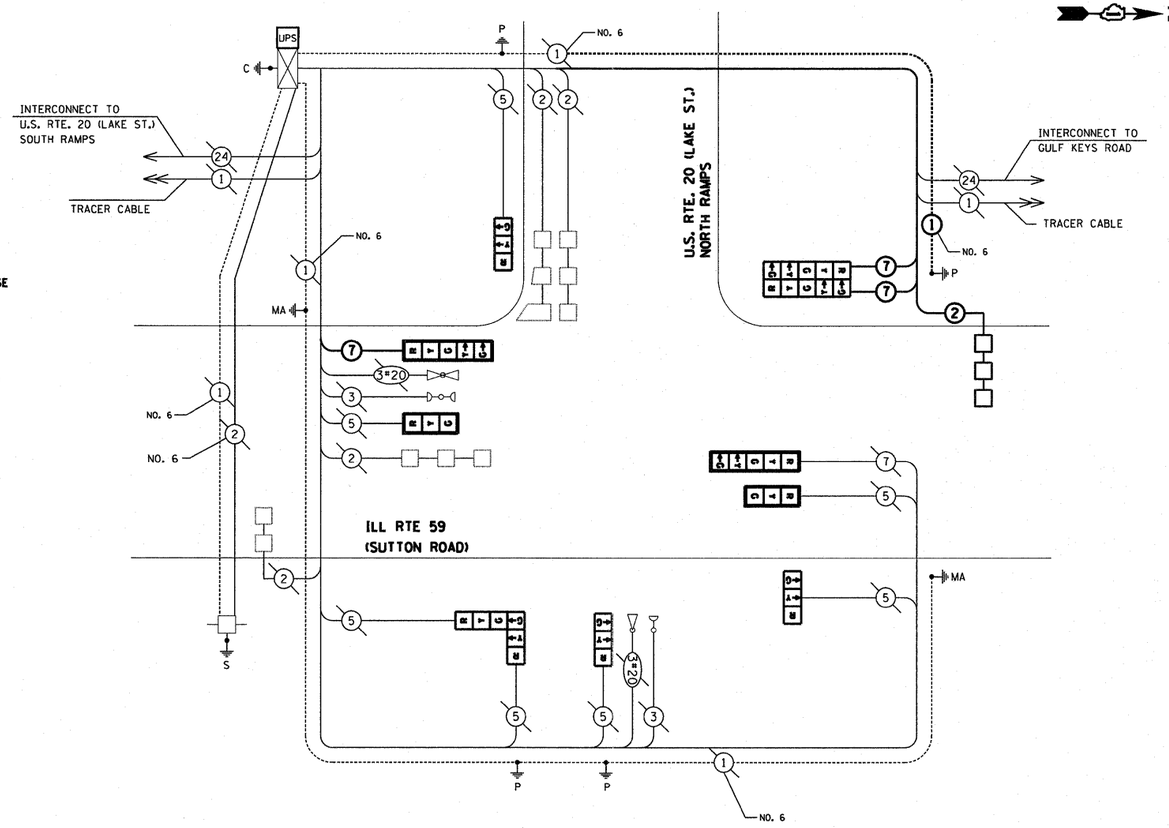
- SINGLE ENTRY PHASE
- DUAL ENTRY PHASE
- OVERLAP
- PEDESTRIAN PHASE
- NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM

OVERLAP LETTER		PERMISSIVE PHASE		PROTECTED PHASE
B	=	4	+	5
C	=	6	+	4

EMERGENCY VEHICLE PREEMPTION SEQUENCE

PROPOSED EMERGENCY VEHICLE PREEMPTOR		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↓ →



CABLE PLAN

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

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

THE ENDS OF THE TRACER CABLES SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINETS.

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
197	FOOT	CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL
38	FOOT	CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL
153	FOOT	CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL
2	EACH	HANDHOLE
246	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
1	EACH	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION
585	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
405	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1-PAIR
1	EACH	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.
4	FOOT	CONCRETE FOUNDATION, TYPE A
1	EACH	DRILL EXISTING HANDHOLE
2	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, MAST ARM MOUNTED
3	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 3-SECTION, BRACKET MOUNTED
2	EACH	SIGNAL HEAD, L.E.D., 1-FACE, 5-SECTION, MAST ARM MOUNTED
1	EACH	SIGNAL HEAD, L.E.D., 2-FACE, 3-SECTION, BRACKET MOUNTED
1	EACH	SIGNAL HEAD, L.E.D., 2-FACE, 5-SECTION, BRACKET MOUNTED
4	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
160	FOOT	DETECTOR LOOP, TYPE I
70	FOOT	REMOVE ELECTRIC CABLE FROM CONDUIT
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
3	EACH	REMOVE EXISTING HANDHOLE
1	EACH	REMOVE EXISTING CONCRETE FOUNDATION
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
1	EACH	UNINTERRUPTIBLE POWER SUPPLY
235	FOOT	ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C
1	EACH	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1

I.D.O.T.
TRAFFIC SIGNAL INSTALLATION
ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	X WATTAGE INCAND.	X WATTAGE LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	11		17	0.50	93.50
(YELLOW)	11		25	0.25	68.75
(GREEN)	11		15	0.25	41.25
ARROW	8		12	0.10	9.60
PED. SIGNAL	-		25	1.00	-
CONTROLLER	1		100	1.00	100.00
ILLUM. SIGN	-		25	0.05	-
FLASHER				0.05	
				TOTAL=	313.10

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAY/DISTRICT 1
201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096

ENERGY SUPPLY CONTACT: _____
PHONE: _____
COMPANY: COMMONWEALTH EDISON

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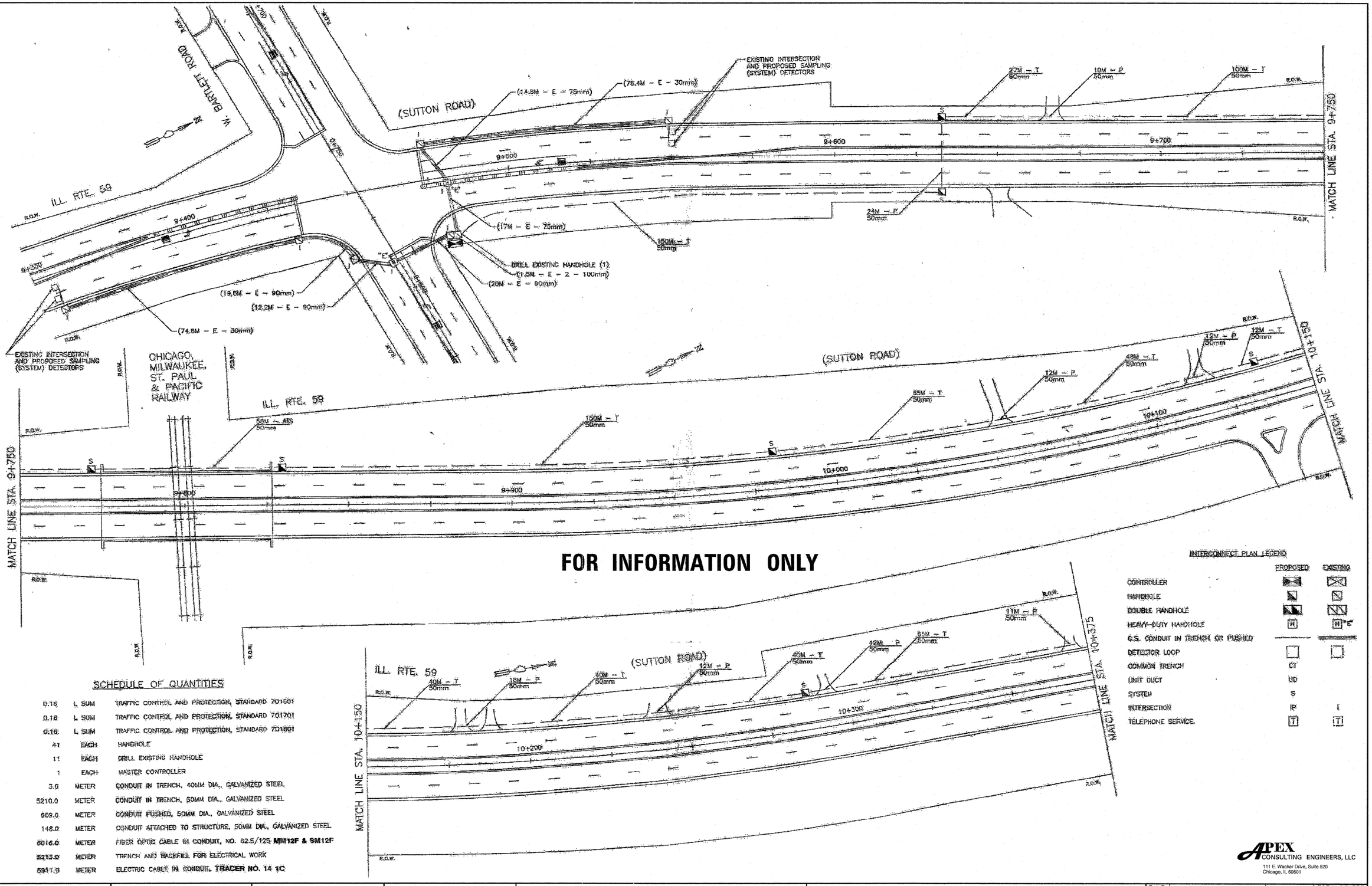
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL. RTE. 59 AT U.S. RTE. 20 NORTH RAMPS
SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM AND EMERGENCY PREEMPTION SEQUENCE

SCALE: N.T.S. | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	43
		CONTRACT NO. 60K62		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



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SCHEDULE OF QUANTITIES

0.16	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601
0.16	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701
0.16	L SUM	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801
41	EACH	HANDHOLE
11	EACH	DRILL EXISTING HANDHOLE
1	EACH	MASTER CONTROLLER
3.0	METER	CONDUIT IN TRENCH, 40MM DIA., GALVANIZED STEEL
5210.0	METER	CONDUIT IN TRENCH, 50MM DIA., GALVANIZED STEEL
669.0	METER	CONDUIT PUSHED, 50MM DIA., GALVANIZED STEEL
148.0	METER	CONDUIT ATTACHED TO STRUCTURE, 50MM DIA., GALVANIZED STEEL
6016.0	METER	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125 **MM12F & SM12F**
5213.0	METER	TRENCH AND BACKFILL FOR ELECTRICAL WORK
5911.0	METER	ELECTRIC CABLE IN CONDUIT, **TRACER NO. 14 1C**

INTERCONNECT PLAN LEGEND

	PROPOSED	EXISTING
CONTROLLER		
HANDHOLE		
DOUBLE HANDHOLE		
HEAVY-DUTY HANDHOLE	H	H"E"
G.S. CONDUIT IN TRENCH OR PUSHED		
DETECTOR LOOP		
COMMON TRENCH	CT	
UNIT DUCT	UD	
SYSTEM	S	
INTERSECTION	IP	I
TELEPHONE SERVICE	T	T

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Chicago, IL 60601

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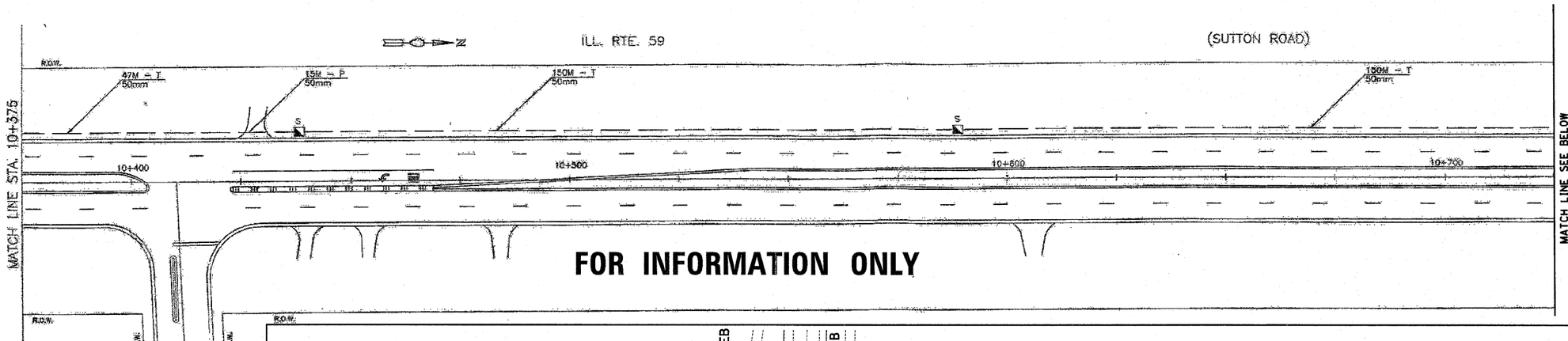
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
IL. RTE. 59 – FROM BARTLETT RD. TO GOLF RD.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	44
		CONTRACT NO. 60K62		
	ILLINOIS FED. AID PROJECT			



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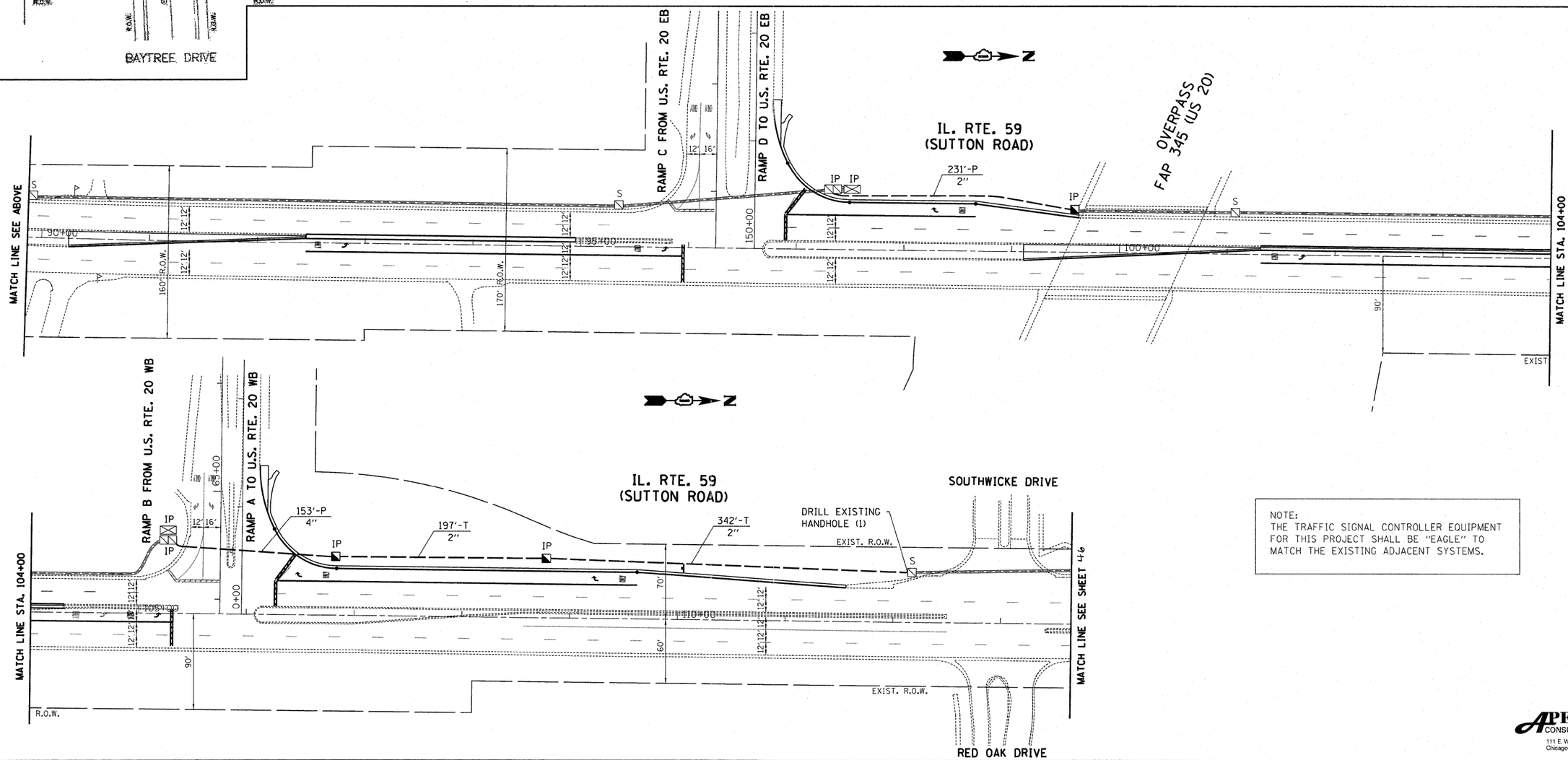

NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEMS.

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111 E. Wacker Drive, Suite 520
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	PLOT DATE = 2/22/2011	DATE - 1/10/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

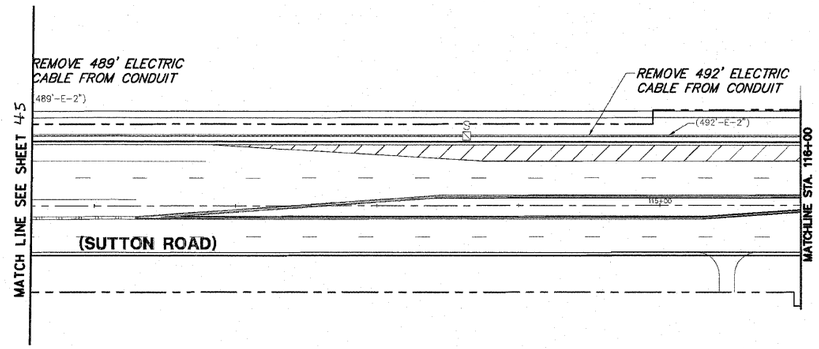
INTERCONNECT PLAN
IL. RTE. 59 – FROM BARTLETT RD. TO GOLF RD.

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	45
		CONTRACT NO. 60K62		
	ILLINOIS FED. AID PROJECT			

INTERCONNECT PLAN LEGEND

	PROPOSED	EXISTING
CONTROLLER	▬	▭
HANDHOLE	▪	▫
DOUBLE HANDHOLE	▬	▭
HEAVY–DUTY HANDHOLE	▣	▣
G.S. CONDUIT IN TRENCH (T) OR PUSHED (P)	— — —	═══
DETECTOR LOOP	□	⬚
UNIT DUCT	*u.d.*	
SYSTEM	S	
INTERSECTION	IP	I



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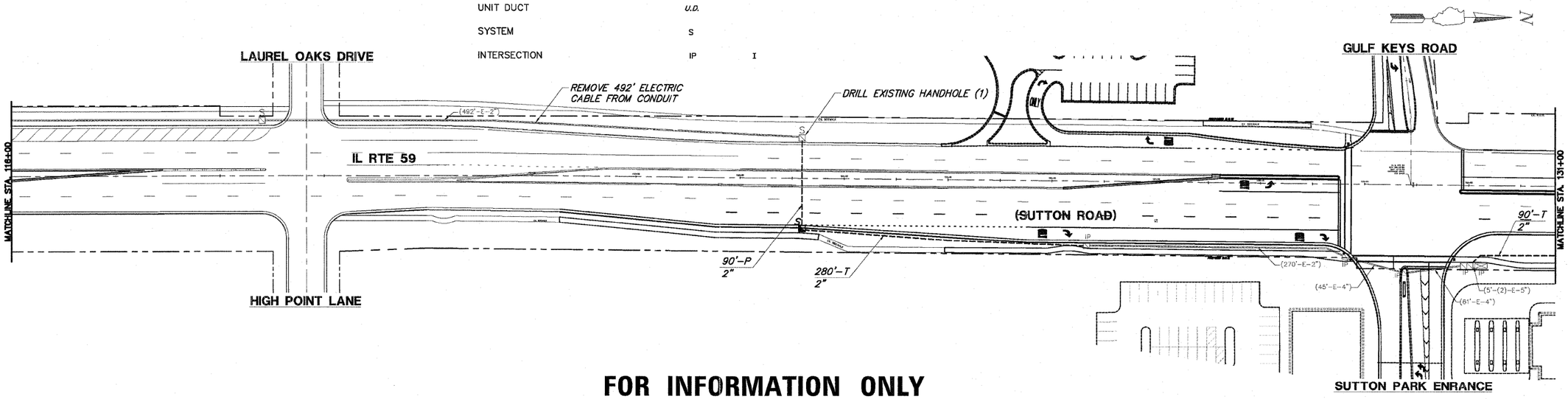

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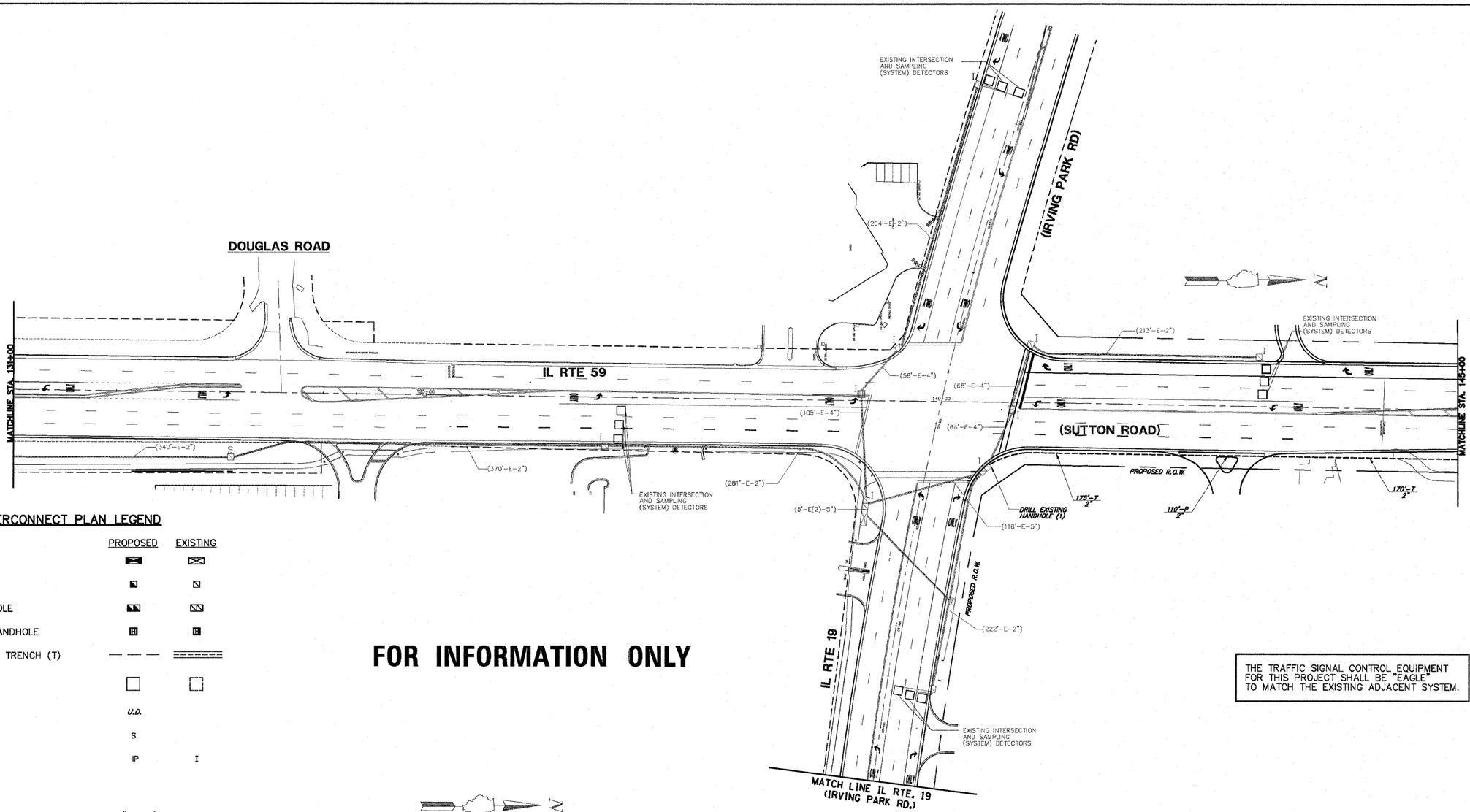
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
IL. RTE. 59 – FROM BARTLETT RD. TO GOLF RD.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	46
		CONTRACT NO. 60K62		
	ILLINOIS	FED. AID PROJECT		



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	U.D.	
SYSTEM	S	
INTERSECTION	IP	I

FOR INFORMATION ONLY

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

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Chicago, IL 60601

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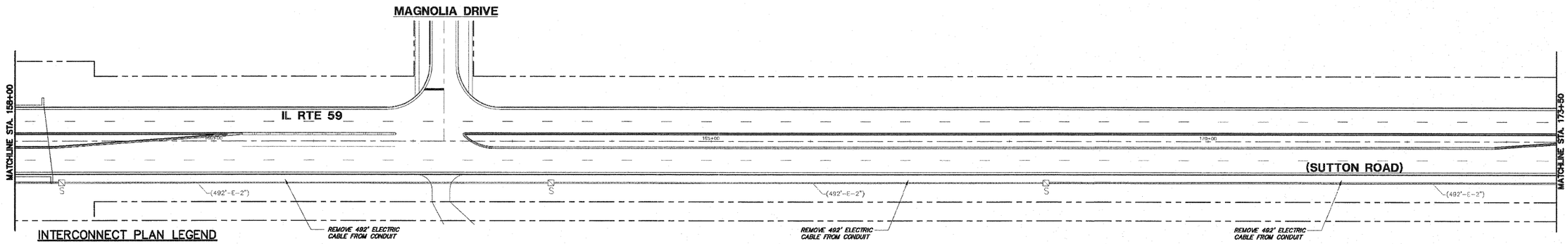
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
IL. RTE. 59 – FROM BARTLETT RD. TO GOLF RD.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	47
		CONTRACT NO. 60K62		
		ILLINOIS	FED. AID PROJECT	



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	*U.D.*	
SYSTEM	S	
INTERSECTION	IP	I

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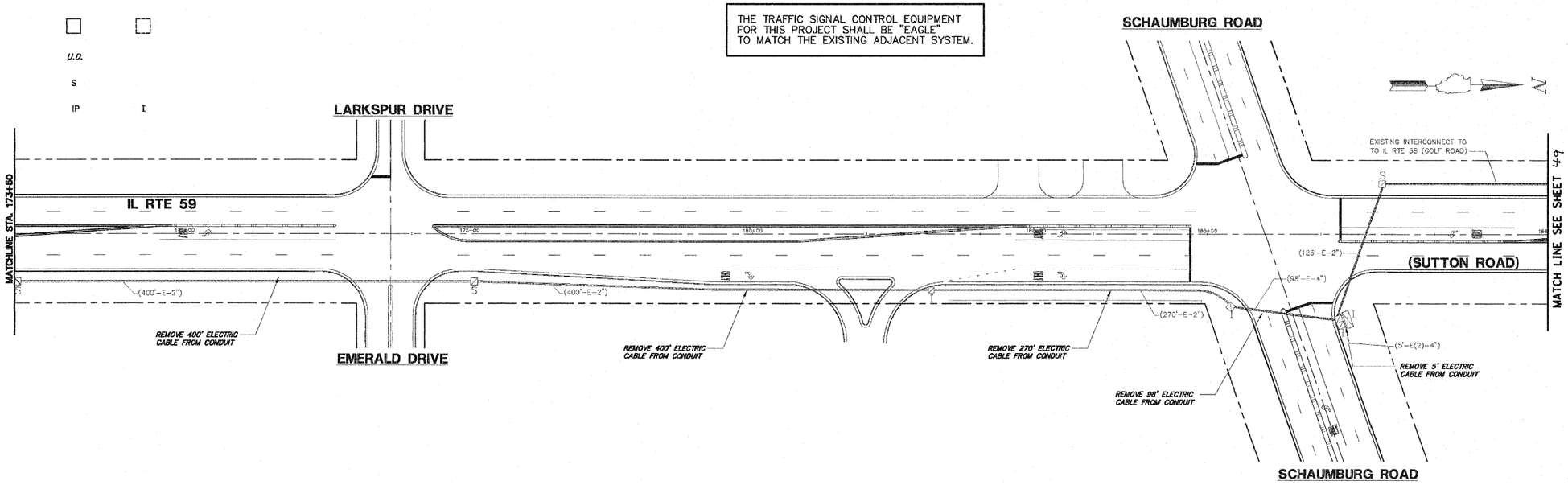

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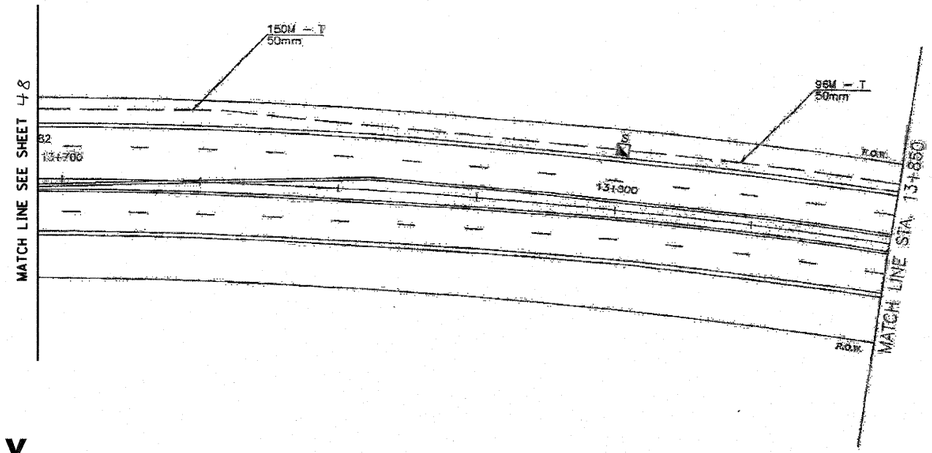
	PLOT DATE = 2/22/2011	DATE - 1/10/2011	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
IL. RTE. 59 – FROM BARTLETT RD. TO GOLF RD.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	48
		CONTRACT NO. 60K62		
		ILLINOIS FED. AID PROJECT		



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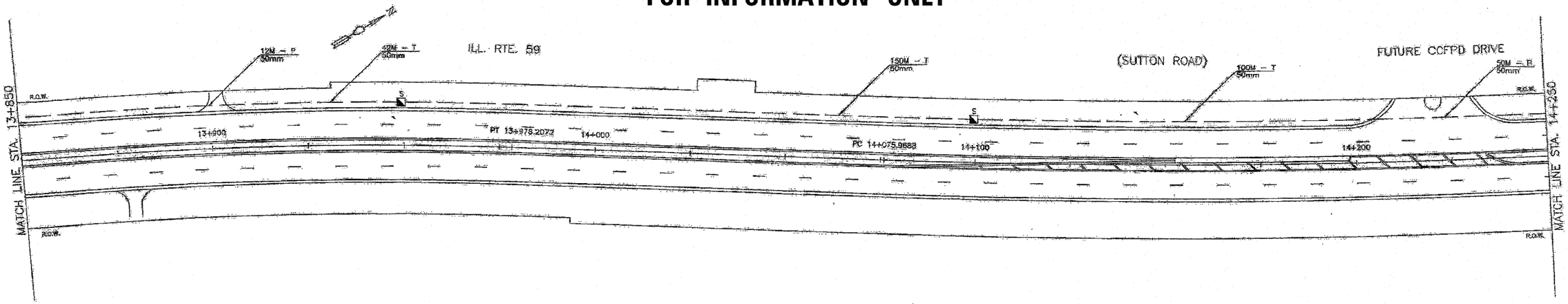

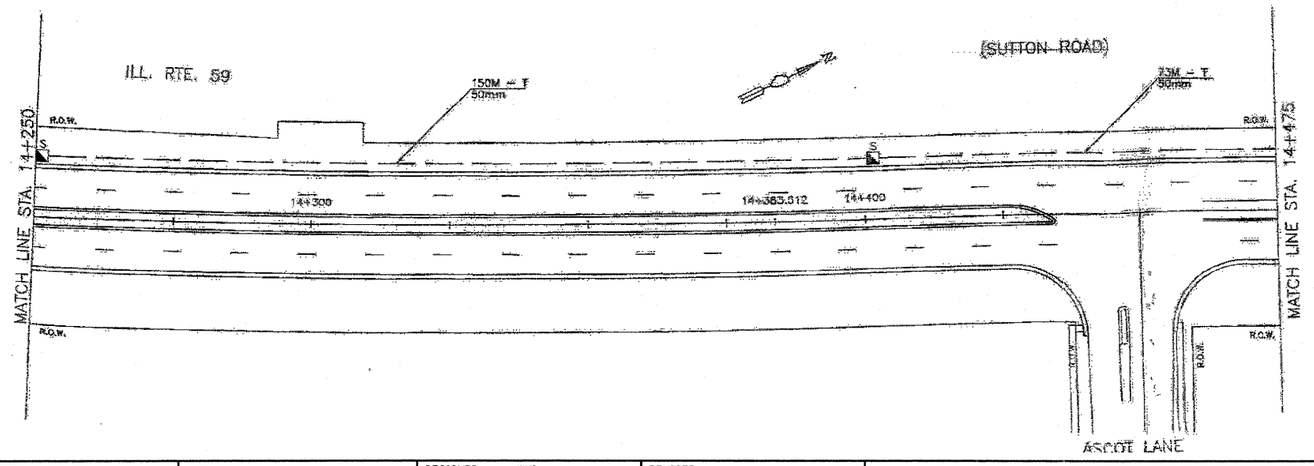

INTERCONNECT PLAN LEGEND

	PROPOSED	EXISTING
CONTROLLER	▣	▣
HANDHOLE	◥	◹
DOUBLE HANDHOLE	◥◤	◹◺
HEAVY-DUTY HANDHOLE	H	H"E"
G.S. CONDUIT IN TRENCH OR PUSHED	———	═══
DETECTOR LOOP	□	" □
COMMON TRENCH	CT	
UNIT DUCT	UD	
SYSTEM	S	
INTERSECTION	IP	I
TELEPHONE SERVICE	T	T

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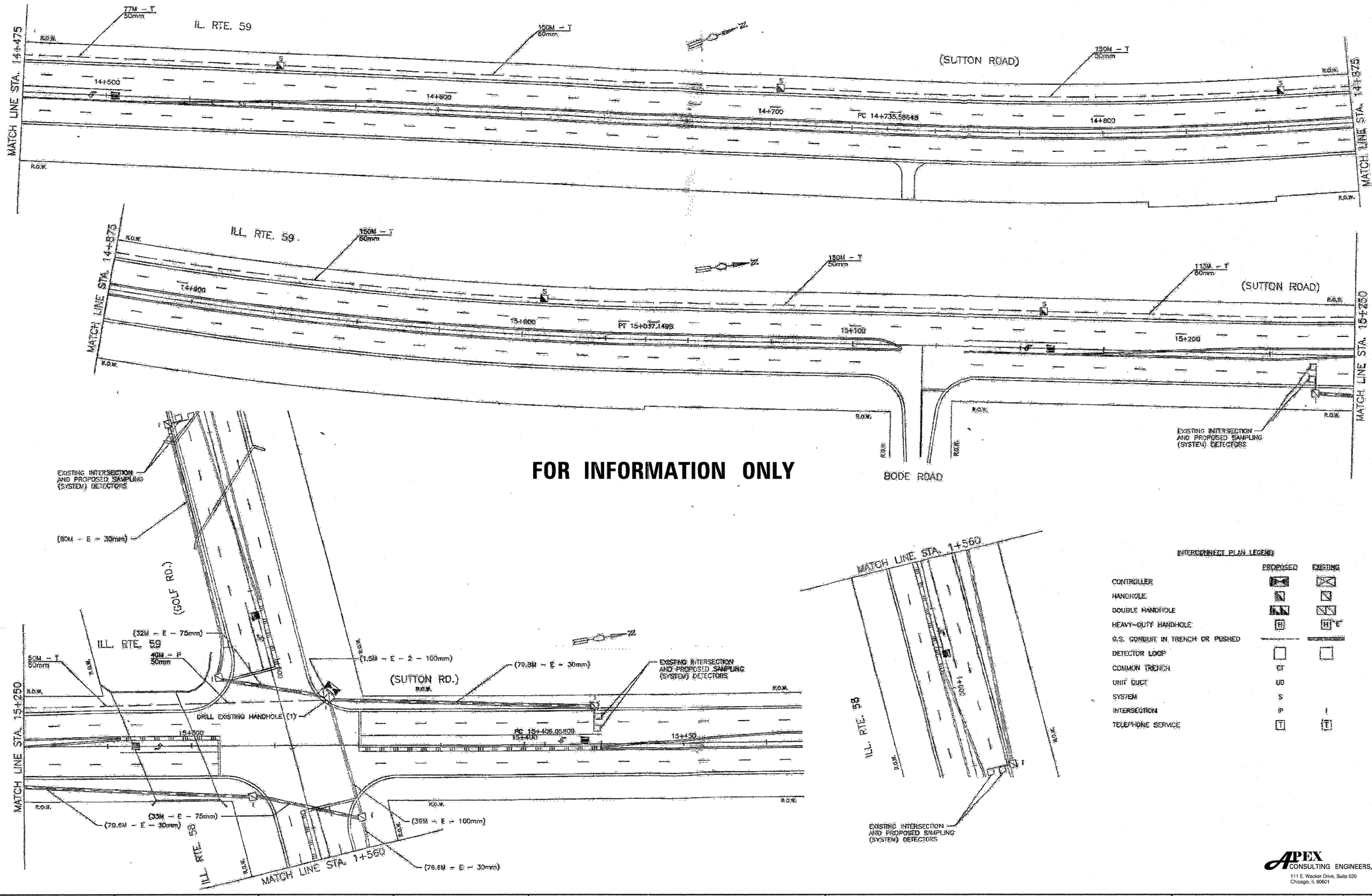
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
IL. RTE. 59 – FROM BARTLETT RD. TO GOLF RD.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	49
		CONTRACT NO. 60K62		
	ILLINOIS FED. AID PROJECT			



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INTERCONNECT PLAN LEGEND

	PROPOSED	EXISTING
CONTROLLER		
HANDHOLE		
DOUBLE HANDHOLE		
HEAVY-DUTY HANDHOLE	H	H"E"
G.S. CONDUIT IN TRENCH OR PUSHED		
DETECTOR LOOP		
COMMON TRENCH	CT	
UNIT DUCT	UD	
SYSTEM	S	
INTERSECTION	IP	I
TELEPHONE SERVICE	T	T

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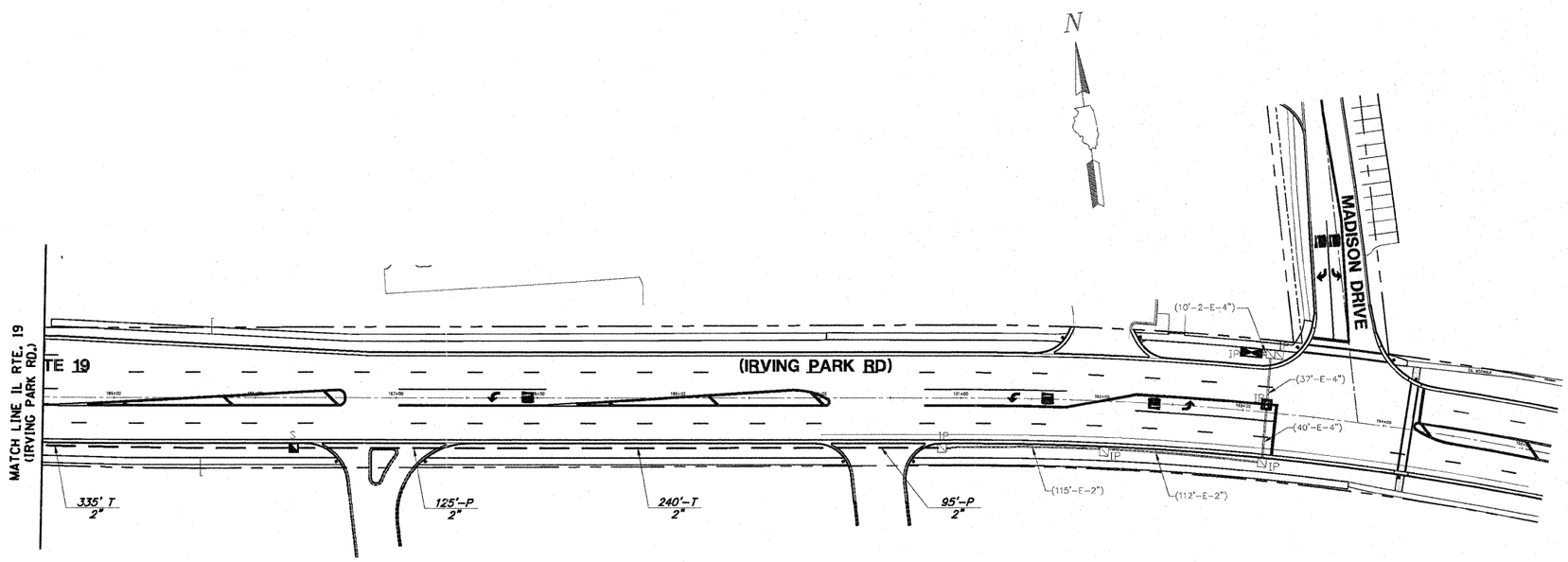
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
IL. RTE. 59 – FROM BARTLETT RD. TO GOLF RD.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	50
		CONTRACT NO. 60K62		
	ILLINOIS FED. AID PROJECT			



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

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	U.D.	
SYSTEM	S	
INTERSECTION	IP	I

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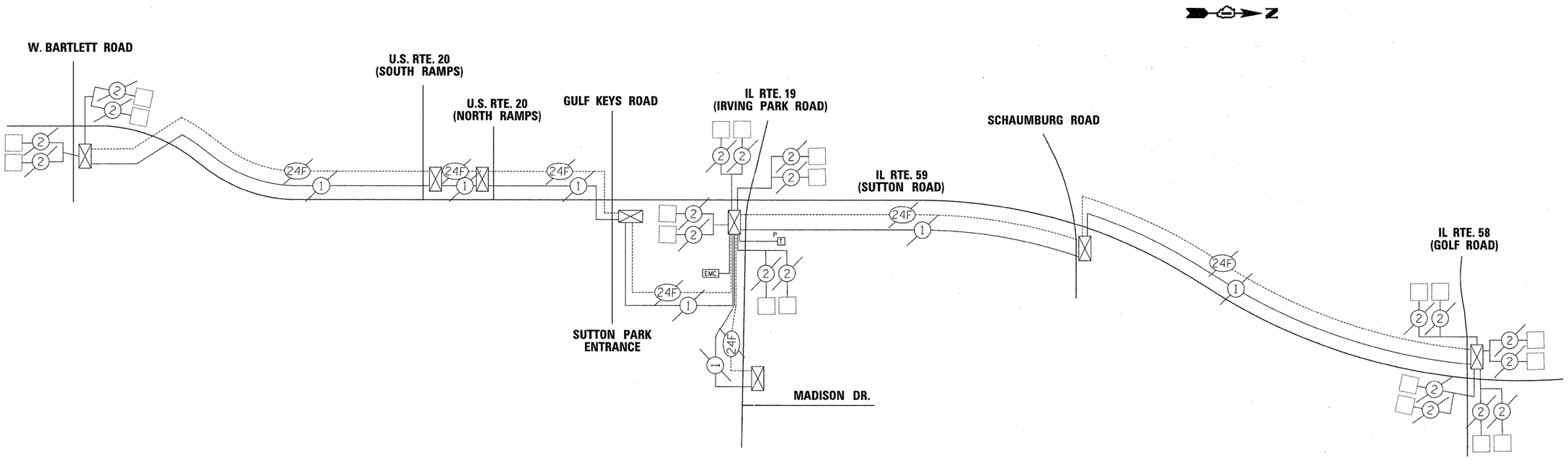
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT PLAN
IL. RTE. 59 – FROM BARTLETT RD. TO GOLF RD.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	51
		CONTRACT NO. 60K62		
	ILLINOIS FED. AID PROJECT			



SCHEDULE OF QUANTITIES

ITEM	UNIT	TOTAL
CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL	FOOT	342
TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	342
DRILL EXISTING HANDHOLE	EACH	1
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	3976

CONSTRUCTION NOTES:

(1) THE PROPOSED TRAFFIC SIGNAL EQUIPMENT SHALL BE OPERATIONAL DURING ROADWAY CONSTRUCTION. ALL PROPOSED TRAFFIC SIGNAL EQUIPMENT (HANDHOLES, CONDUIT, CABLES, FOUNDATIONS, ETC.) SHALL BE INSTALLED AND READY FOR OPERATION BEFORE THE CONTRACTOR REMOVES THE MARKED EXISTING TRAFFIC SIGNAL EQUIPMENT SHOWN ON THE PLANS.

(2) THE CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID DAMAGE TO EXISTING REMAINING CONDUIT, ELECTRIC CABLES AND OTHER ITEMS DURING CONSTRUCTION. DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.

(3) EXISTING FIBER OPTIC INTERCONNECT CABLE WILL BE REMOVED AND REINSTALLED FROM THE EXISTING CONTROLLER CABINET AT U.S. RTE. 20 (SOUTH RAMPS) TO THE NEW HANDHOLE INTERCEPTING THE EXISTING CONDUIT, VIA NEW 2" G.S. CONDUIT, TO THE EXISTING CONTROLLER CABINET AT U.S. RTE. 20 (NORTH RAMPS) AND FROM THE EXISTING CONTROLLER CABINET AT U.S. RTE. 20 (NORTH RAMPS) TO THE EXISTING HANDHOLE, VIA NEW 2" G.S. CONDUIT, TO THE EXISTING CONTROLLER AT GULF KEYS ROAD. THE PROPOSED HANDHOLES AND CONDUIT SHALL BE INSTALLED BEFORE THE INDICATED EXISTING HANDHOLES ARE REMOVED.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INTERCONNECT SCHEMATIC
IL. RTE. 59 – FROM BARTLETT RD. TO GOLF RD.

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	52
		CONTRACT NO. 60K62		
		ILLINOIS FED. AID PROJECT		

LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT 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.

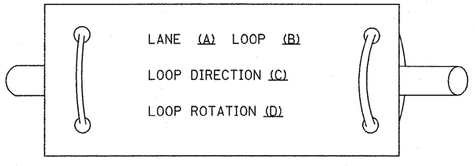
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

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

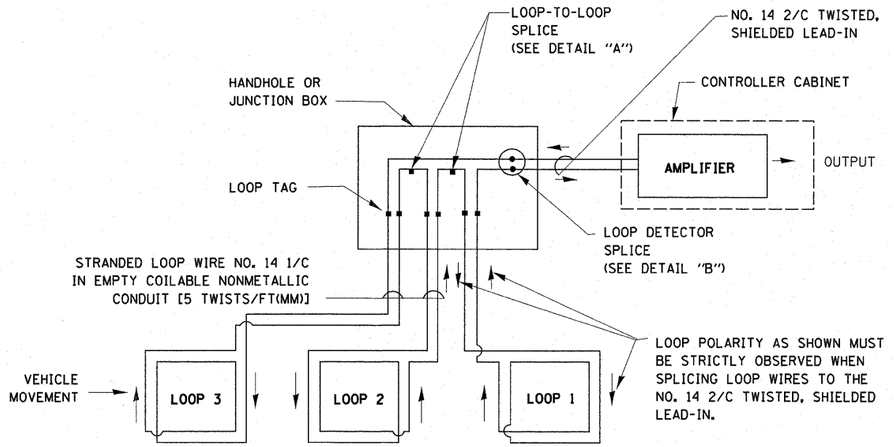


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

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

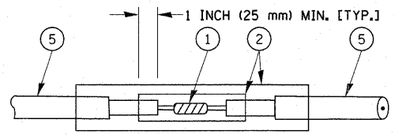
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

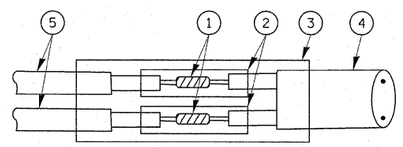


DETECTOR LOOP WIRING SCHEMATIC

- 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.

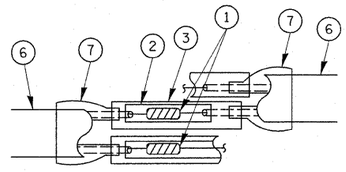


DETAIL "A"
LOOP-TO-LOOP SPLICE



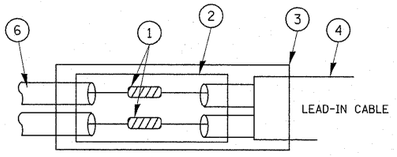
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



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.

(6) PRE-FORMED LOOP

(7) XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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	PLOT DATE = 2/3/2011	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

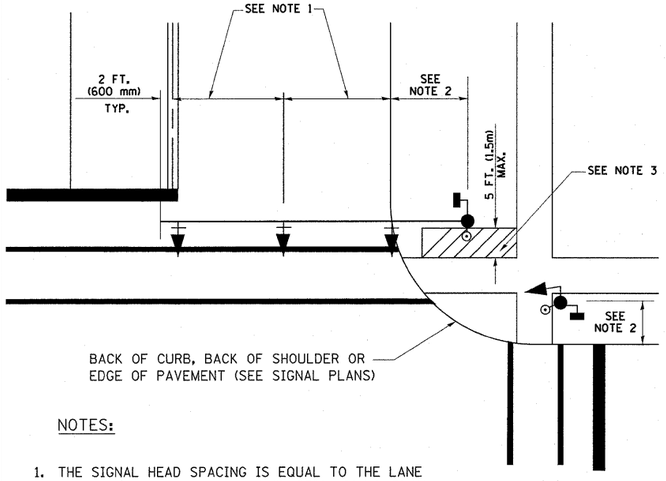
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 1 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	53
	TS-05	CONTRACT NO. 60K62		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

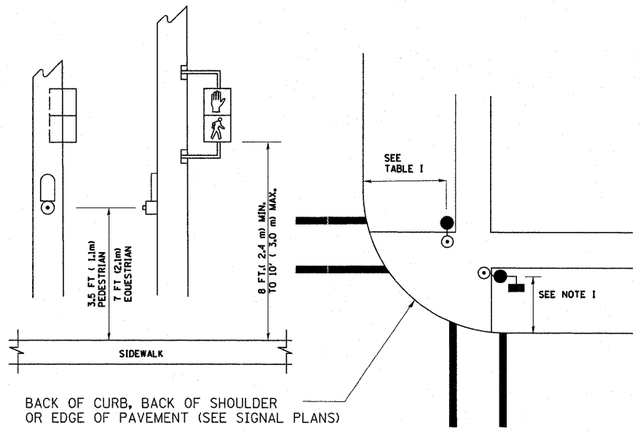
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

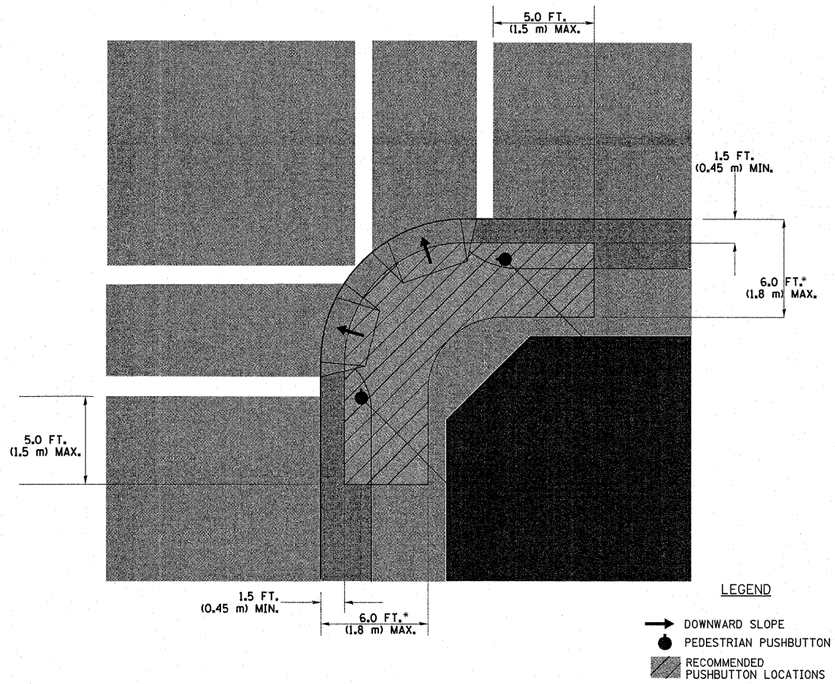
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.

** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

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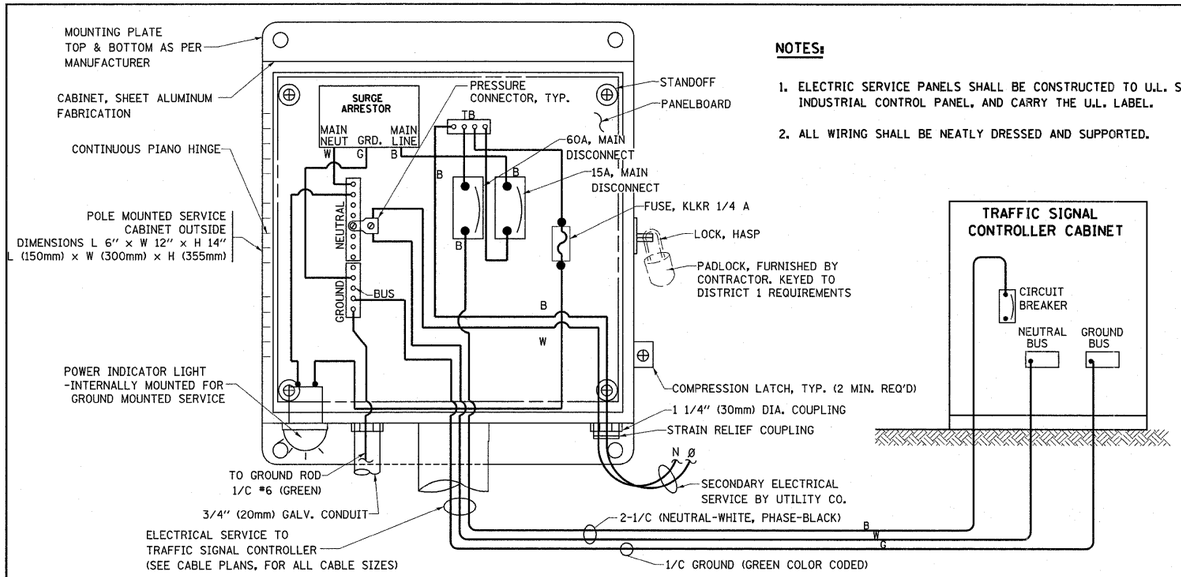
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 2 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	54
	TS-05	CONTRACT NO. 60K62		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



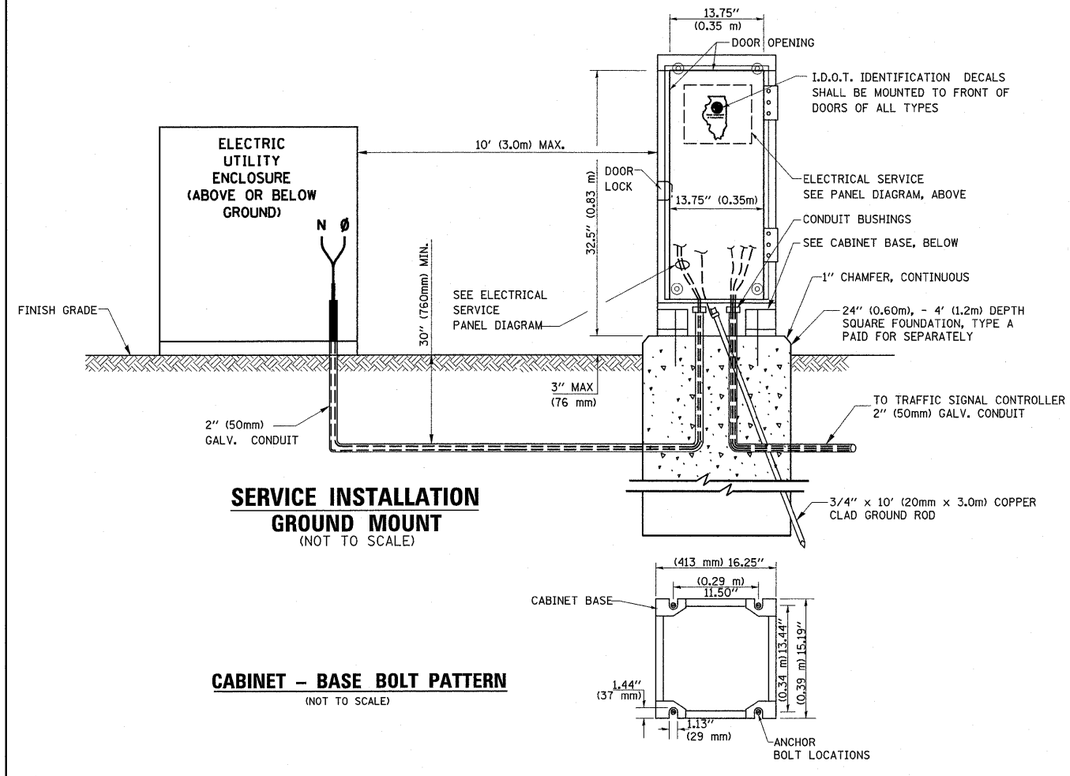
NOTES:

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)

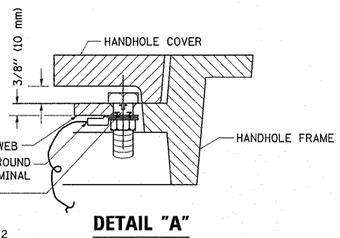


SERVICE INSTALLATION GROUND MOUNT

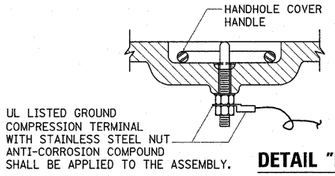
(NOT TO SCALE)

CABINET – BASE BOLT PATTERN

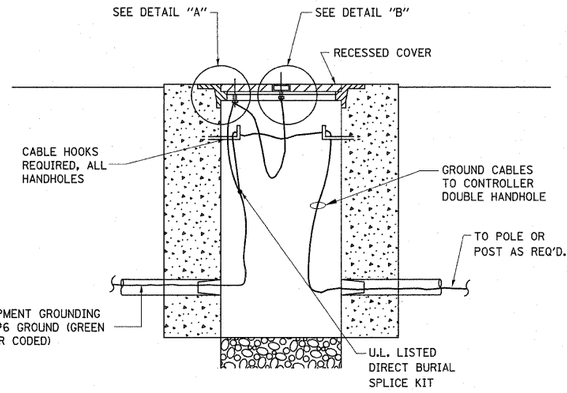
(NOT TO SCALE)



DETAIL "A"

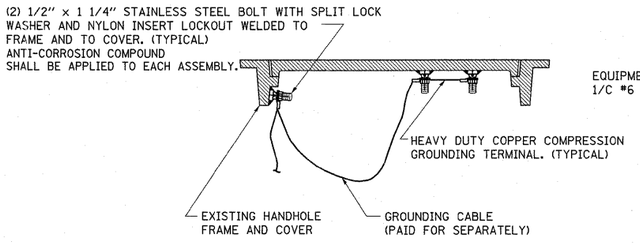


DETAIL "B"



HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



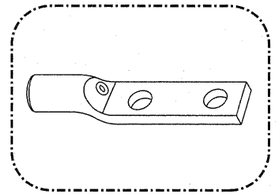
EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)

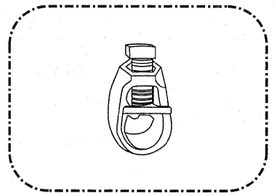
NOTES:

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.



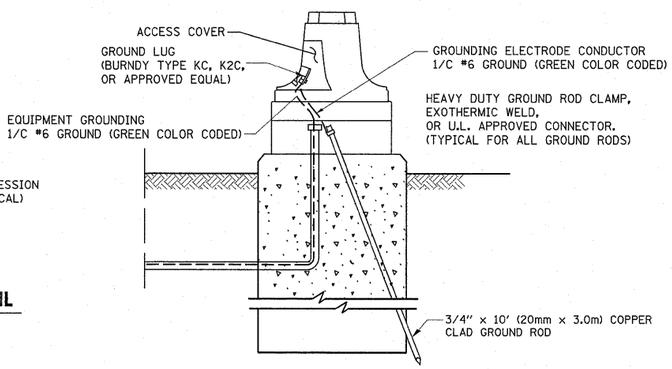
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YGHA OR APPROVED EQUAL)



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

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)

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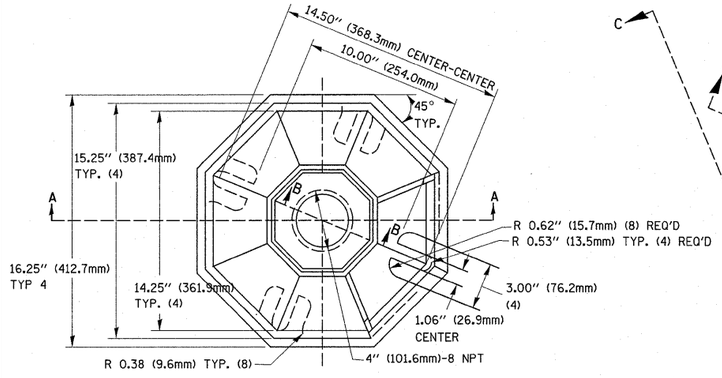
		DRAWN - BCK	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 2/3/2011	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

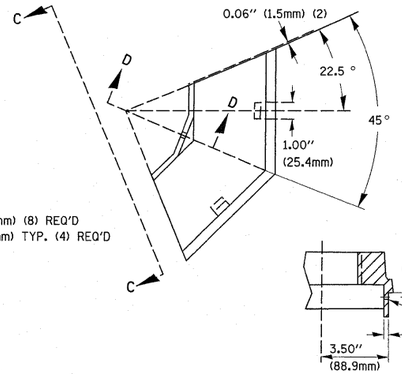
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 3 OF 6 SHEETS | STA. | TO STA.

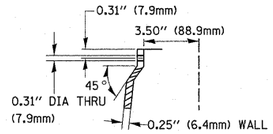
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	55
	TS-05	CONTRACT NO. 60K62		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



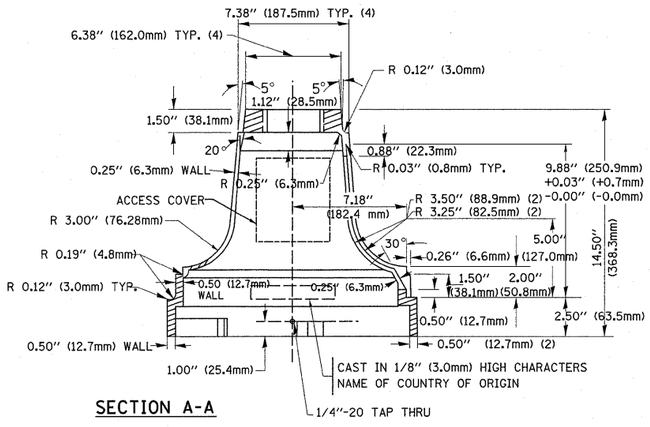
TOP VIEW



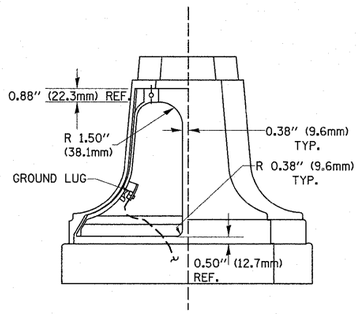
SECTION B-B



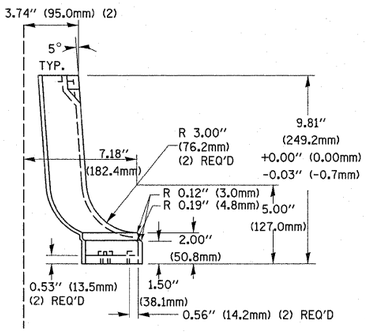
SECTION D-D



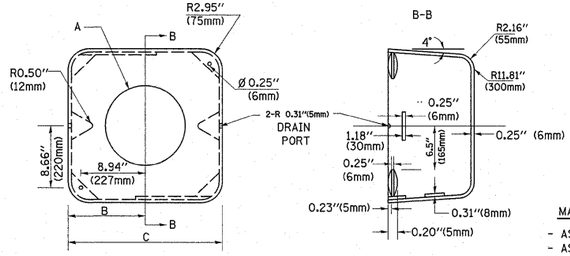
SECTION A-A



VIEW C-C



TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A



MATERIAL:
- ASTM A36 STEEL
- ASTM A-123 HOT DIPPED GALVANIZED

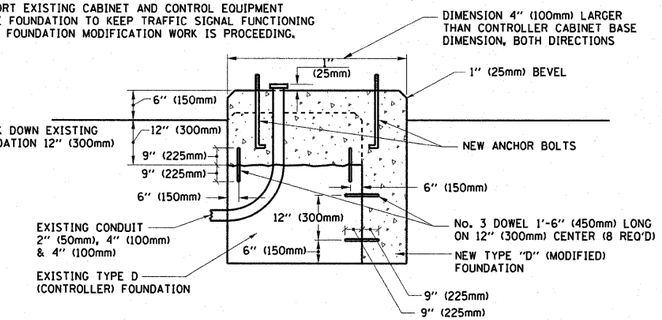
A	B	C	HEIGHT	WEIGHT
VARIES	9.5"(241mm)	19"(483mm)	7" (178mm) - 12" (300mm)	53 lbs (24kg)
VARIES	10.75"(273mm)	21.5"(546mm)	7" (178mm) - 12" (300mm)	68 lbs (31 kg)
VARIES	13.0"(330mm)	26"(660mm)	7" (178mm) - 12" (300mm)	81 lbs (37 kg)
VARIES	18.5"(470mm)	37"(940mm)	7" (178mm) - 12" (300mm)	126 lbs (57 kg)

SHROUD

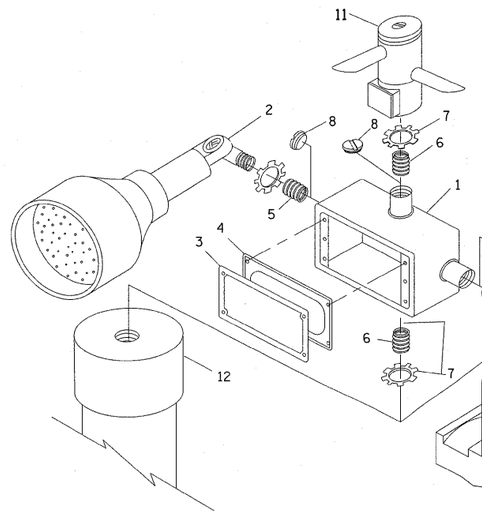
NOTES:

1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

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



POST CAP MOUNT

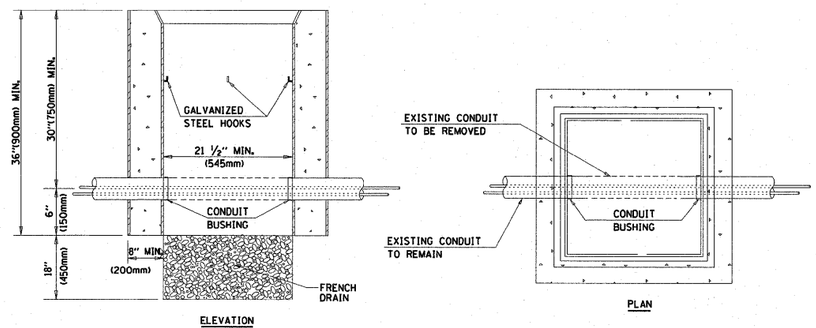
MAST ARM MOUNT

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	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

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.



ELEVATION

PLAN

NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

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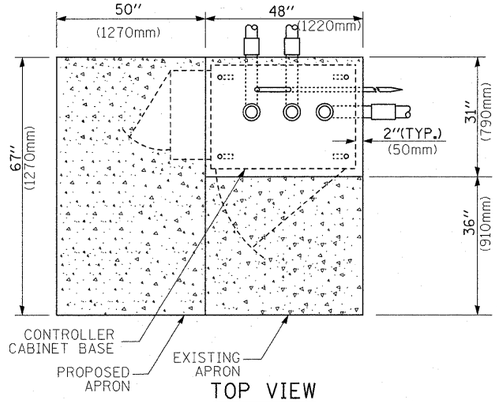
		DRAWN - BCK	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED - DAD	REVISED -
	PLOT DATE = 2/3/2011	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

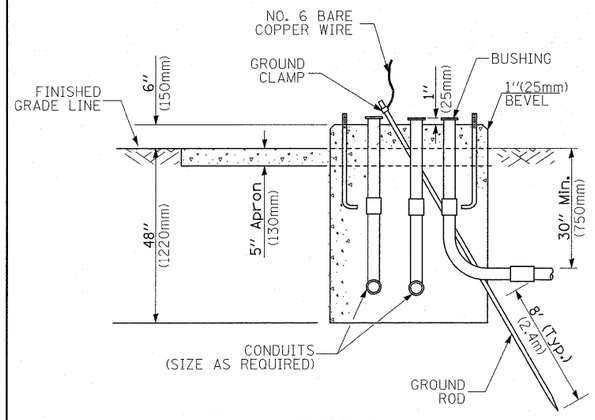
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 4 OF 6 SHEETS | STA. | TO STA.

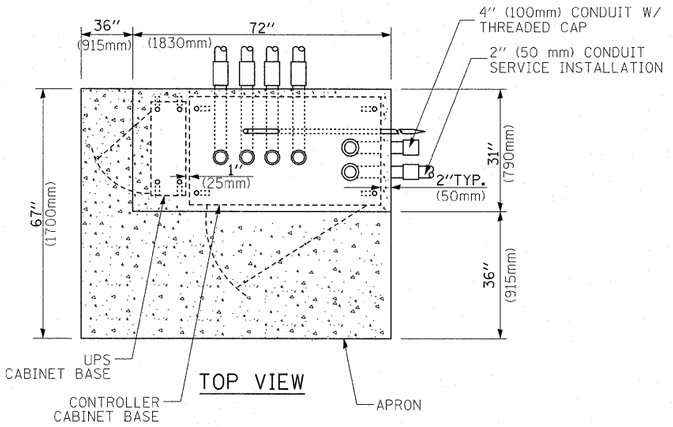
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	56
	TS-05	CONTRACT NO. 60K62		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



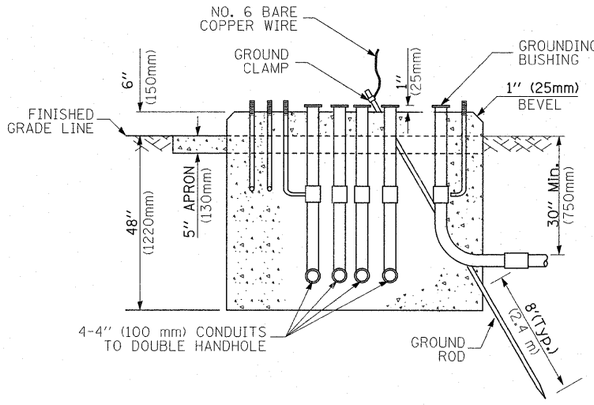
TOP VIEW



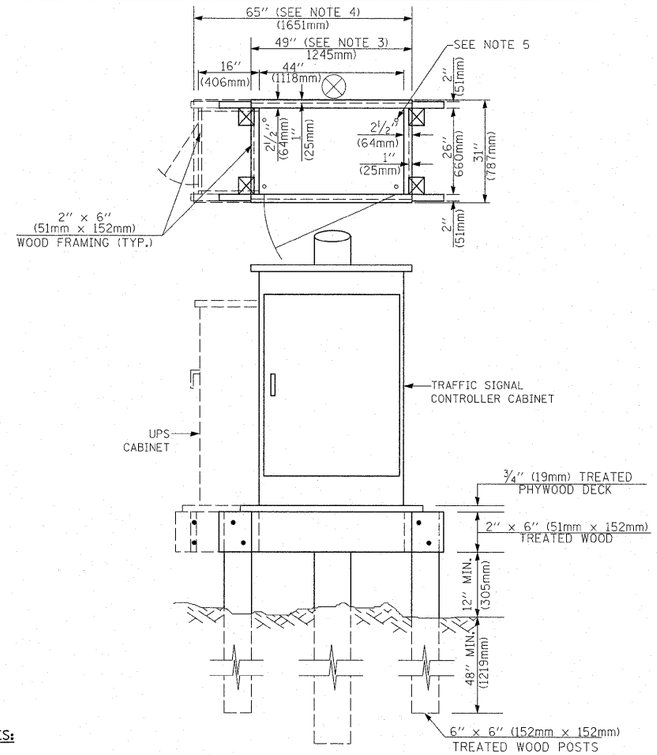
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



TOP VIEW



TYPE C
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001.

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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		DRAWN - BCK	REVISED -
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	PLOT DATE = 2/3/2011	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 5 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	57
	TS-05	CONTRACT NO. 60K62		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED
CONTROLLER CABINET	R		
RAILROAD CONTROL CABINET		R	
COMMUNICATIONS CABINET	CC R	CC	CC
MASTER CONTROLLER		EMC	MC
MASTER MASTER CONTROLLER		EMMC	MMC
UNINTERRUPTIBLE POWER SUPPLY	UPS R	EUPS	UPS
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	R	P	P
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R T	P T	P T
STEEL MAST ARM ASSEMBLY AND POLE	R		
ALUMINUM MAST ARM ASSEMBLY AND POLE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE	R		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	R PTZ	PTZ	PTZ
SIGNAL POST	R		
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM	R		
GUY WIRE	R		
SIGNAL HEAD	R		
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)			2
SIGNAL HEAD WITH BACKPLATE	R		
SIGNAL HEAD OPTICALLY PROGRAMMED	R "P"	"P"	"P"
FLASHER INSTALLATION (S DENOTES SOLAR POWER)	R "F"	"F"	"F"
PEDESTRIAN SIGNAL HEAD	R		
PEDESTRIAN PUSHBUTTON DETECTOR	R		
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTOR	R APS	APS	APS
ILLUMINATED SIGN "NO LEFT TURN"	R		
ILLUMINATED SIGN "NO RIGHT TURN"	R		
DETECTOR LOOP, TYPE I			
PREFORMED DETECTOR LOOP		P	P
MICROWAVE VEHICLE SENSOR	R M	M	M
VIDEO DETECTION CAMERA	R V	V	V
VIDEO DETECTION ZONE			
PAN, TILT, ZOOM CAMERA	R PTZ	PTZ	PTZ
WIRELESS DETECTOR SENSOR	R W	W	W
WIRELESS ACCESS POINT	R		

ITEM	REMOVAL	EXISTING	PROPOSED
EMERGENCY VEHICLE LIGHT DETECTOR	R		
CONFIRMATION BEACON	R		
HANDHOLE	R		
HEAVY DUTY HANDHOLE	R H	H	H
DOUBLE HANDHOLE	R		
JUNCTION BOX	R		
GALVANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)			
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	R		
COMMON TRENCH			CT
COILABLE NONMETALLIC CONDUIT (EMPTY)			CNC
SYSTEM ITEM		S	S
INTERSECTION ITEM		I	IP
REMOVE ITEM	R		
RELOCATE ITEM	RL		
ABANDON ITEM	A		
12" (300mm) TRAFFIC SIGNAL SECTION		R	R
12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		R Y G	
SIGNAL FACE		R Y G ◄Y ◄G	R Y G ◄Y ◄G
SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD		R Y G ◄Y ◄G "P"	R Y G ◄Y ◄G "P"
12" (300mm) PEDESTRIAN SIGNAL HEAD WALK/DON'T WALK SYMBOL		DW W	
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED			
12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID			
PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER		C D	C D
RADIO INTERCONNECT	R		
RADIO REPEATER	R ERR	ERR	RR
DENOTES NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED		5	5
GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)		1	1

ITEM	REMOVAL	EXISTING	PROPOSED
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1/C, UNLESS NOTED OTHERWISE		1	1
COAXIAL CABLE		C	C
VENDOR CABLE FOR CAMERA		V	V
COPPER INTERCONNECT CABLE, NO. 18 3 PAIR TWISTED, SHIELDED		6	6
FIBER OPTIC CABLE NO. 62.5/125, MM12F		12F	
FIBER OPTIC CABLE NO. 62.5/125, MM12F SM12F		24F	24F
FIBER OPTIC CABLE NO. 62.5/125, (NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)			
GROUND ROD AT (C) CONTROLLER, (H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE		C	C
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF		
STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
ALUMINUM MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED	RMF		
SIGNAL POST AND FOUNDATION TO BE REMOVED	RMF		
INTERSECTION & SAMPLING (SYSTEM) DETECTOR		IS	IS
SAMPLING (SYSTEM) DETECTOR		S	S
EXISTING INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		P	
EXISTING PREFORMED INTERSECTION LOOP DETECTOR PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PP	
PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		PIS	PIS
PREFORMED SAMPLING (SYSTEM) DETECTOR		PS	PS

RAILROAD SYMBOLS

	EXISTING	PROPOSED
RAILROAD CONTROL CABINET	R	R
RAILROAD CANTILEVER MAST ARM		
FLASHING SIGNAL		
CROSSING GATE		
CROSSBUCK		

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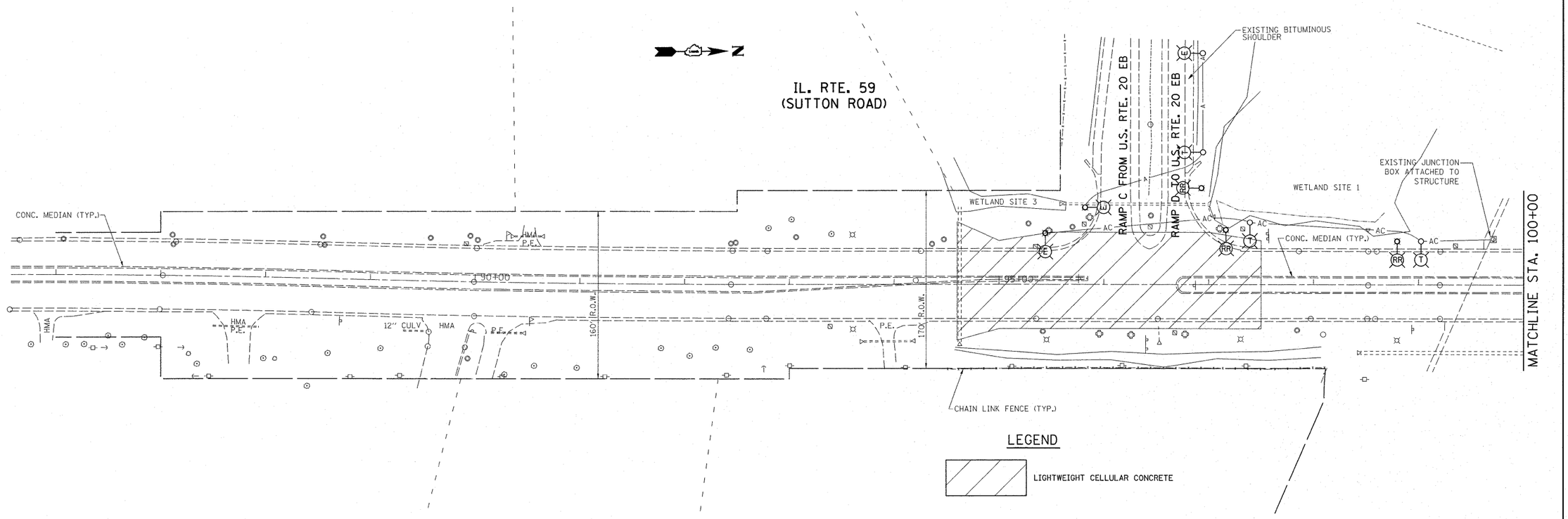
	PLOT DATE = 2/3/2011	DATE - 10-28-09	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

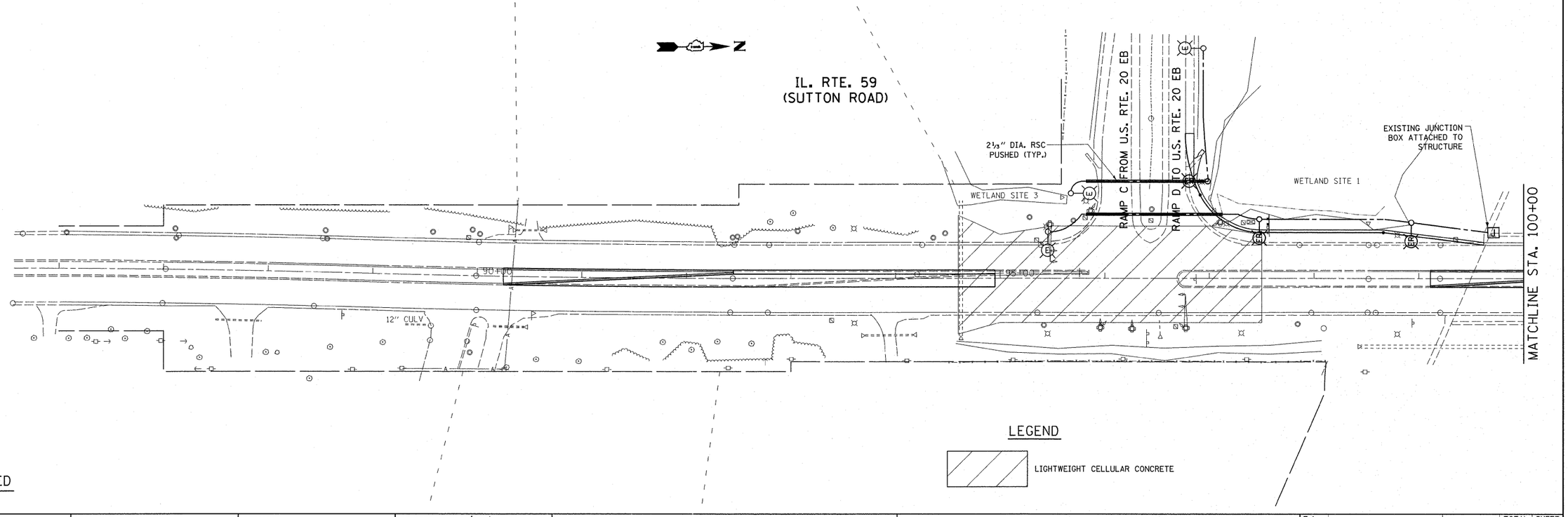
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE | SHEET NO. 6 OF 6 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	58
	TS-05	CONTRACT NO. 60K62		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



EXISTING



PROPOSED

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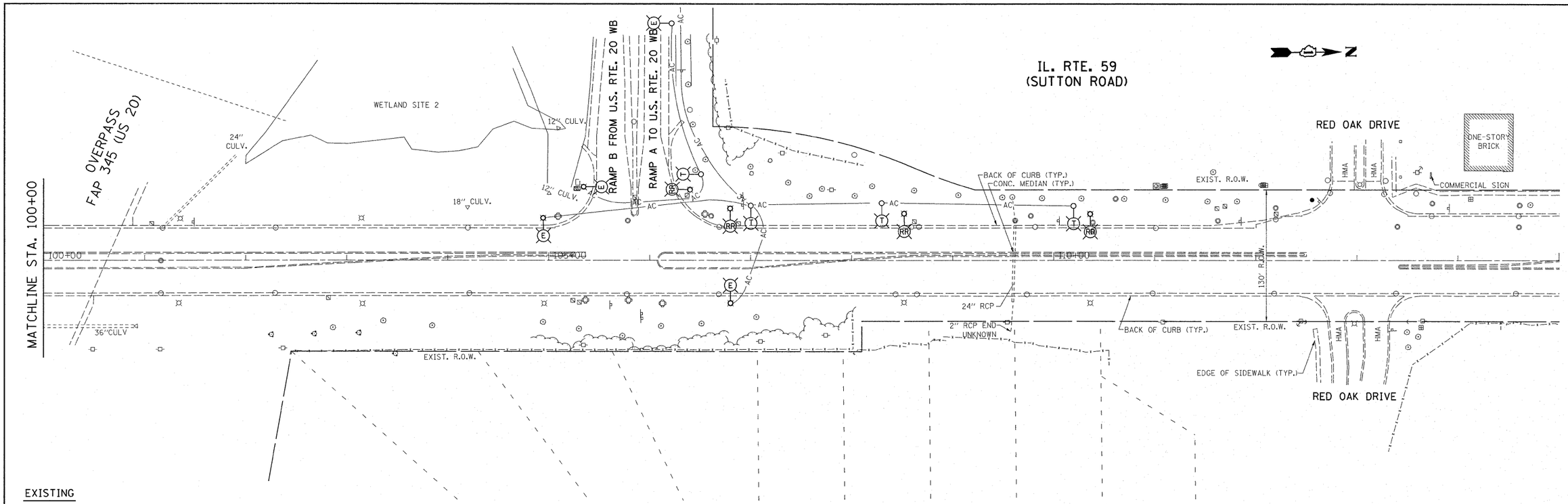
	PLOT DATE = 3/16/2011	DATE -	REVISED -

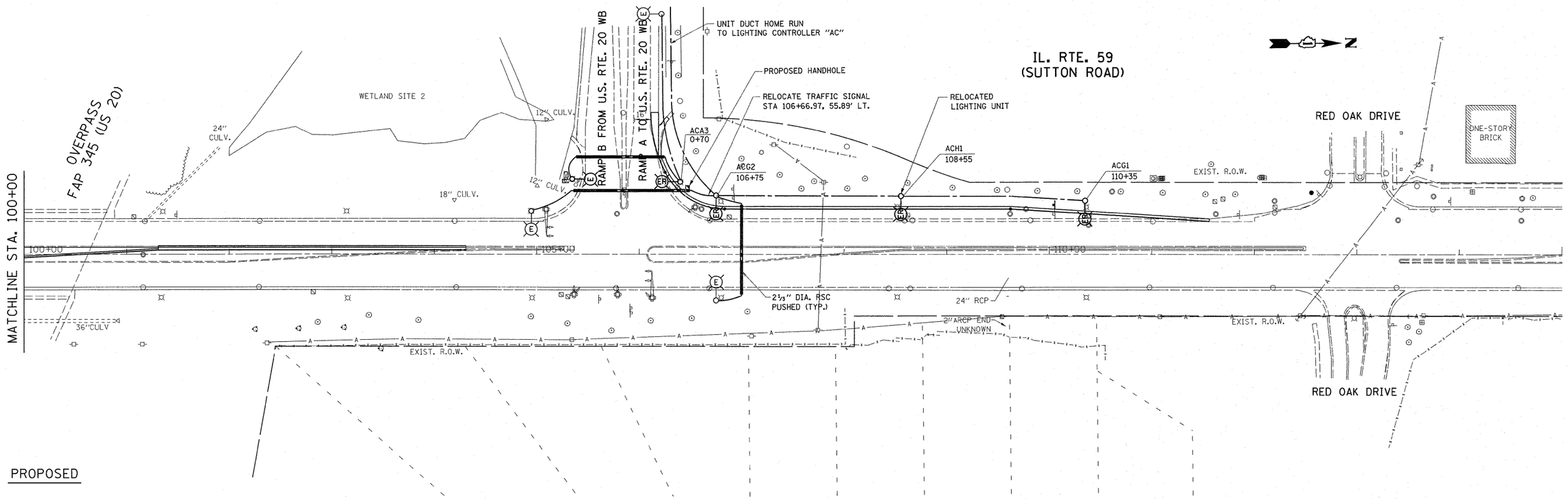
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXIST. AND PROP. LIGHTING PLAN
IL. RTE. 59 AT U.S. RTE. 20

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			82	59
		CONTRACT NO.		
		ILLINOIS FED. AID PROJECT		





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	PLOT DATE = 2/3/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXIST. AND PROP. LIGHTING PLAN
IL. RTE. 59 AT U.S. RTE. 20

SCALE: 1"=50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			82	60
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

ELECTRICAL SYMBOLS FOR PROPOSED WORK

- LIGHTING UNIT: 47.5 FT. M.H., 15 FT. M.A. 400W HPS M-C-III LUMINAIRE BREAKAWAY TRANSFORMER BASE
- (E) EXISTING LIGHTING UNIT TO REMAIN
- (ER) LOCATION OF REINSTALLED LIGHTING UNIT
- COMBINATION LIGHTING UNIT: 45 FT. M.H., 12 FT. M.A. 400W HPS M-C-III LUMINAIRE
- TWIN LIGHTING UNIT: 47.5 FT. M.H., 2-6 FT. M.A. 400W HPS M-C-III LUMINAIRE BREAKAWAY TRANSFORMER BASE
- UNDERPASS LUMINAIRE: 55 WATT LPS
- [J] JUNCTION BOX, TYPE AND SIZE INDICATED
- LIGHT TOWER: 120 FT. M.H. 750W HPS LUMINAIRES
- ELECTRIC CONNECTION TO SIGN STRUCTURE CANTALEVELLER SIGN STRUCTURE
- ELECTRIC CONNECTION TO SIGN STRUCTURE TRUSS TYPE SIGN STRUCTURE
- ELECTRIC CONNECTION TO SIGN STRUCTURE BRIDGE MOUNTED SIGN
- ---A/C--- AERIAL ELECTRIC CABLE, 3-1/C #2 ALUMINUM WITH MESSENGER WIRE
- UNIT DUCT 3-1/C #4 WITH 1/C #6 GND IN 1¼" DIA. POLYETHYLENE
- CONDUIT ATTACHED TO STRUCTURE 1" DIAMETER, GALVANIZED STEEL, PVC COATED, CONDUCTORS AS INDICATED
- DUCT BANK
- LIGHTING CONTROLLER, DUPLEX
- UTILITY SERVICE CONNECTION, POLE MOUNTED
- UTILITY SERVICE CONNECTION, PAD MOUNTED
- GROUND ROD
- (T) TEMPORARY LIGHTING UNIT

ELECTRICAL SYMBOLS FOR EXISTING CONDITIONS

GENERAL DESIGNATIONS

- E EXISTING EQUIPMENT TO REMAIN
- R EXISTING EQUIPMENT TO BE REMOVED
- (E) EXISTING LIGHTING UNIT TO REMAIN
- (E) EXISTING COMBINATION LIGHTING UNIT TO REMAIN
- (E)—(E) EXISTING LIGHTING UNIT, TWIN LUMINAIRE, TO REMAIN
- (T) TEMPORARY LIGHTING UNIT
- (RR) EXISTING LIGHTING UNIT TO BE REMOVED AND RELOCATED
- (R) EXISTING LIGHTING UNIT TO BE REMOVED
- OE EXISTING UNDERPASS LUMINAIRE
- (TR) TEMPORARY LIGHTING UNIT TO BE REMOVED
- (TRR) EXISTING TEMPORARY LIGHTING UNIT TO BE REMOVED AND REINSTALLED.
- (TR) LOCATION OF REINSTALLED TEMPORARY LIGHTING UNIT
- (ET) EXISTING TEMPORARY LIGHTING UNIT
- E EXISTING ELECTRIC CONNECTION TO SIGN STRUCTURE, CANTALEVER TYPE
- E EXISTING ELECTRIC CONNECTION TO SIGN, STRUCTURE, TRUSS TYPE
- E EXISTING ELECTRIC CONNECTION TO SIGN STRUCTURE, BRIDGE MOUNT TYPE
- ——R— EXISTING UNIT DUCT TO BE ABANDONDED
- ---E--- EXISTING EXPOSED CONDUIT
- ——E— EXISTING UNIT DUCT
- JE EXISTING JUNCTION BOX
- EXISTING LIGHTING CONTROLLER, DUPLEX
- EXISTING UTILITY SERVICE CONNECTION, POLE MOUNTED
- EXISTING UTILITY SERVICE CONNECTION, PAD MOUNTED

GENERAL ELECTRICAL PLAN NOTES

1. THE CONTRACTOR SHALL REQUEST A FORMAL MAINTENANCE TRANSFER BEFORE ANY WORK, LIGHTING OR OTHER, BEGINS. THE CONTRACTOR SHALL CONTACT THE ELECTRICAL MAINTENANCE OFFICE.
2. TO MAINTAIN THE STRUCTURAL INTEGRITY OF THE LIGHT POLES, THE LIGHT POLES SHALL NOT BE ERECTED AND/OR LEFT TO STAND WITHOUT LUMINAIRES. NOTE THAT THE LIGHT POLES WILL NOT PAID FOR UNTIL THE POLES ARE FULLY APPROVED AND THE LUMINAIRES ARE INSTALLED.
3. THE QUANTITIES OF RACEWAYS WHERE INDICATED IN THESE PLANS ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLETE COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.
4. THE EQUIPMENT GROUDING CONDUCTORS SHALL BE SPLICED AND BONDED TO EACH JUNCTION BOX AND PULL BOX THE CONDUCTORS PASS THROUGH. JUNCTION BOXES SHALL BE EQUIPPED WITH GROUND LUGS FOR GROUND WIRE TERMINATION WITHOUT DEGRADATION OF THE JUNCTION BOX RATING.
5. REFER TO THE TRAFFIC SIGNAL PLANS FOR THE EXACT LOCATIONS OF TRAFFIC SIGNAL POLES AT THE INTERSECTION.
6. TRENCHES FOR LIGHTING RACEWAYS SHALL HAVE A MINIMUM DEPTH OF 760 MM (30").

LIGHTING PLAN NOTES

1. TEMPORARY LIGHT POLES SHALL BE SET BACK 20 FEET FROM EXISTING BACK OF CURB OR EDGE OF PAVEMENT UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
2. RELOCATED LIGHT POLES SHALL BE SET BACK 8 FEET FROM PROPOSED BACK OF CURB.
3. TEMPORARY LIGHTING SHALL BE OPERATIONAL PRIOR TO THE REMOVAL OR RELOCATION OF ANY EXISTING LIGHTING.

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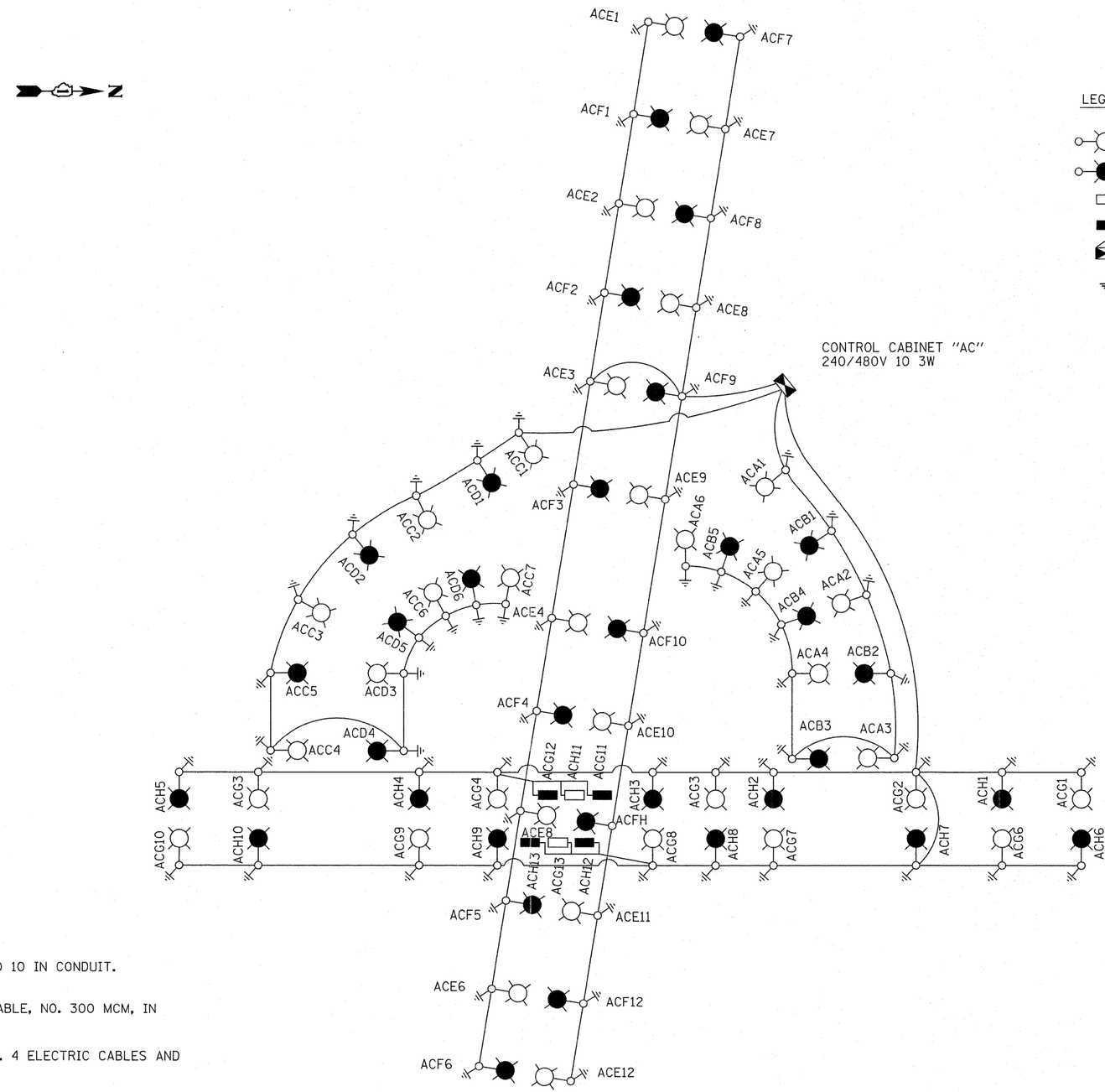
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING SYMBOLS AND NOTES (ENGLISH)

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			82	61
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



LEGEND

- LUMINAIRE ON RED CABLE
- LUMINAIRE ON BLACK CABLE
- UNDERPASS LUMINAIRE ON RED CABLE
- UNDERPASS LUMINAIRE ON BLACK CABLE
- LIGHTING CONTROLLER
- GROUND ROD

NOTES:

1. UNDERPASS WIRING IS ELECTRIC CABLE, NO 10 IN CONDUIT.
2. SERVICE ENTRANCE WIRING IS ELECTRIC CABLE, NO. 300 MCM, IN CONDUIT.
3. ALL OTHER WIRING IS UNIT DUCT WITH NO. 4 ELECTRIC CABLES AND A NO. 4 GROUND WIRE.

CALCULATED
CIRCUIT LOAD TABLE

CIRCUIT	LOAD (AMPS)
A	9
B	7.5
C	10.5
D	10.5
E	18
F	18
G	15
H	15

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	PLOT DATE = 2/3/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

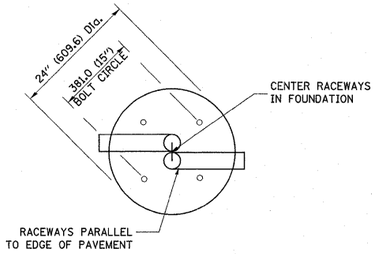
IL. RTE. 59 AT U.S. RTE. 20
EXISTING LIGHTING WIRING DIAGRAM

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

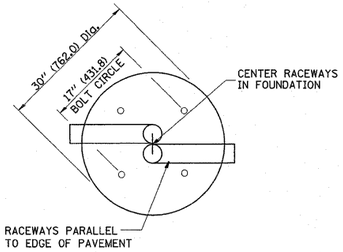
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			82	62
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			

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

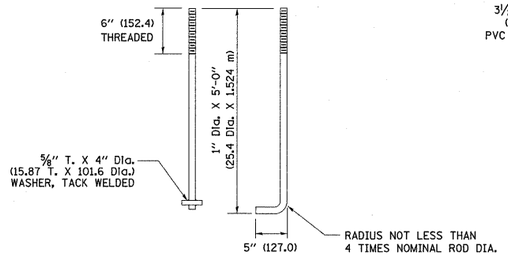
SOIL CONDITIONS	DESIGN DEPTH "D" OF FOUNDATION	
	SINGLE ARM POLE	TWIN ARM POLE
SOFT CLAY Qu = 0.375 TON/SQ. FT.	13'-0" (3.96 m)	15'-0" (4.57 m)
MEDIUM CLAY Qu = 0.75 TON/SQ.FT	9'-6" (2.09 m)	10'-9" (3.23 m)
STIFF CLAY Qu = 1.50 TON/SQ. FT.	7'-0" (2.13 m)	8'-0" (2.44 m)
LOOSE SAND Ø = 34°	9'-0" (2.74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



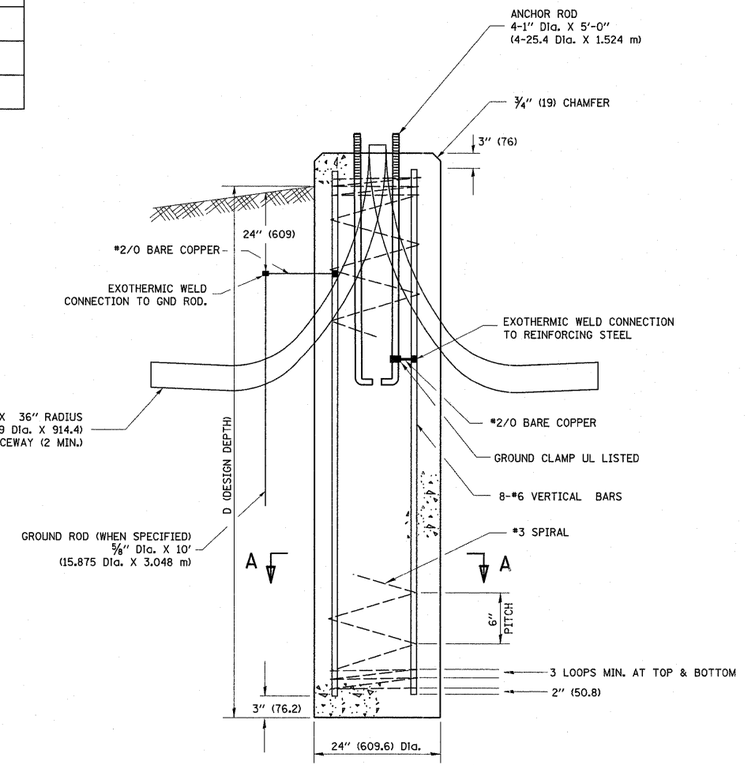
TOP VIEW



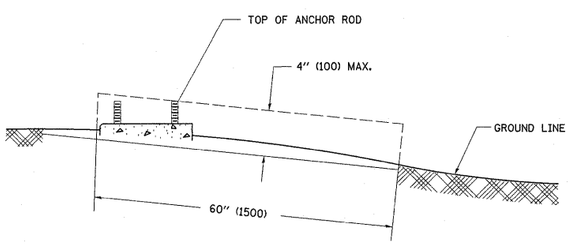
TOP VIEW



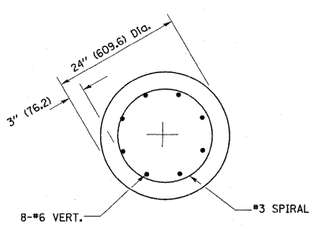
ANCHOR ROD DETAIL



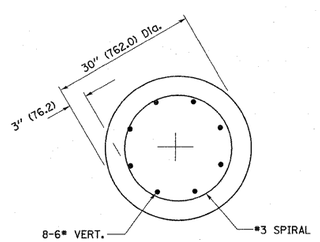
FOUNDATION DETAIL



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. (1.5 m) 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. (20 mm).
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" (69.9 mm) 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" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) 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" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.

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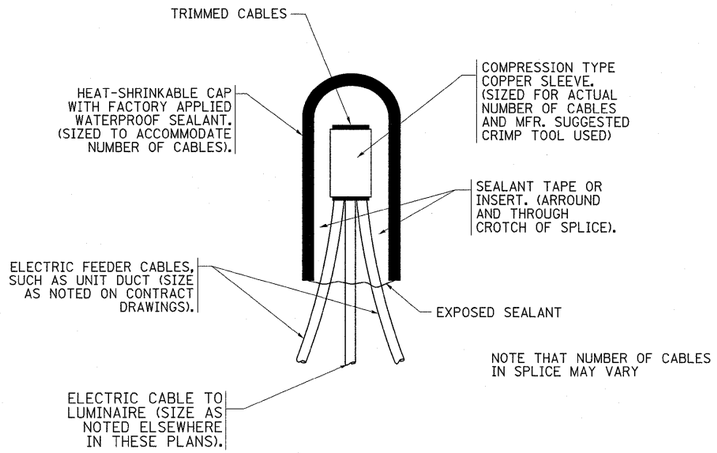
	PLOT DATE = 2/3/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

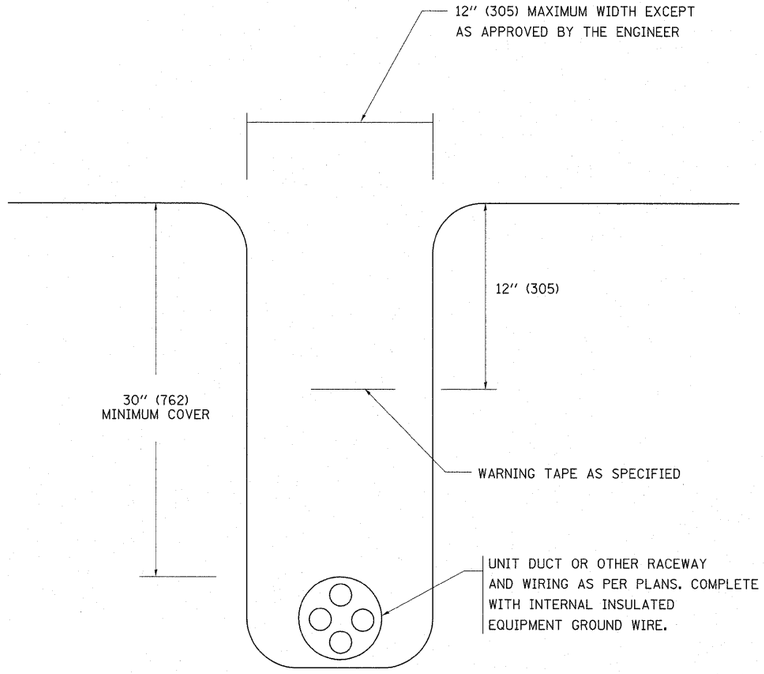
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	63
	BE-301	CONTRACT NO. 60K62		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



TYPICAL SPLICE DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

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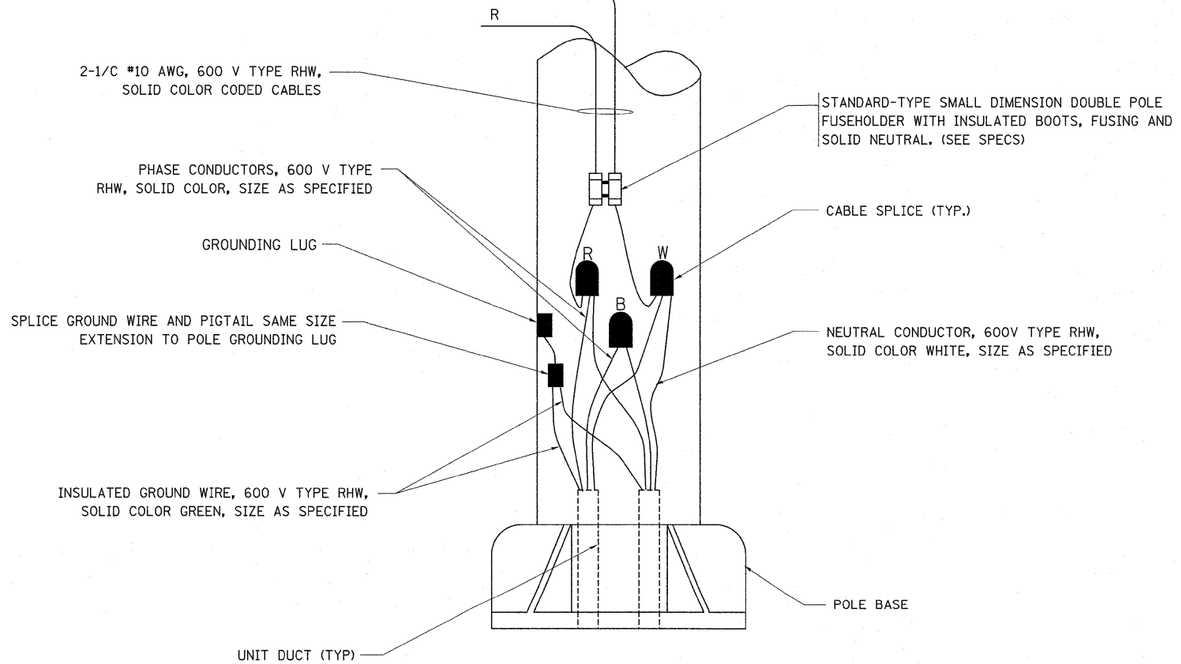

POLE WIRING DETAIL

N.T.S.

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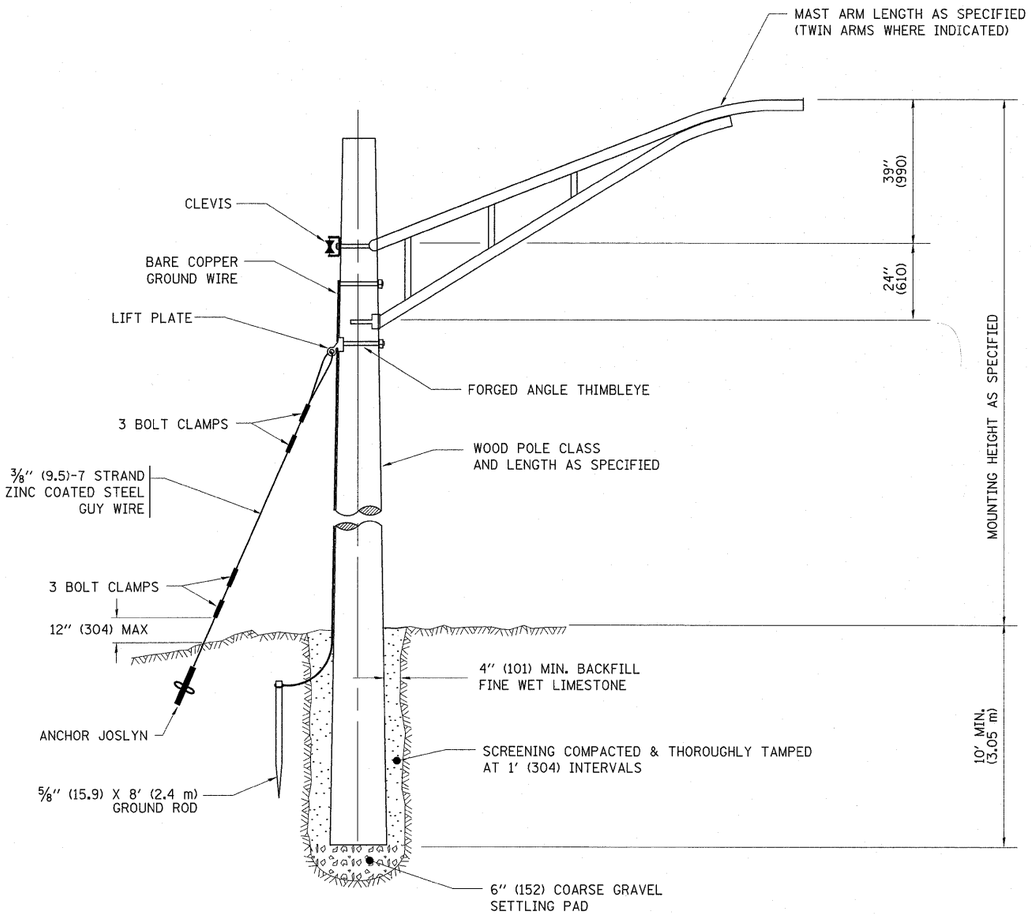
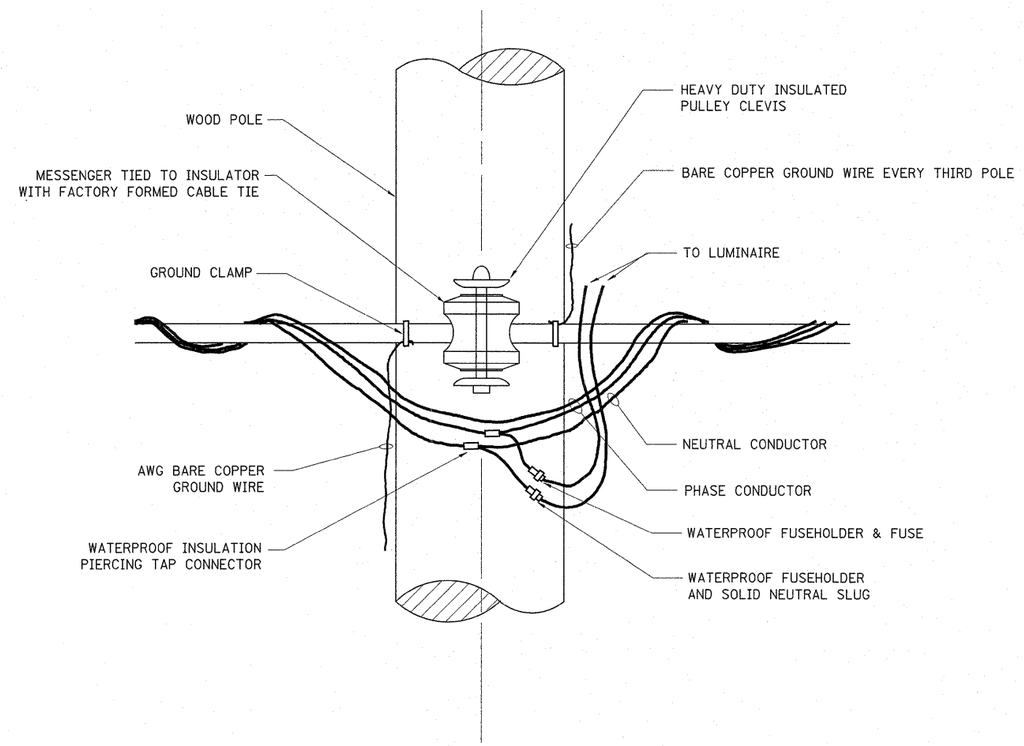
		DRAWN -	REVISED -					338	7 HB-K-N	COOK	82	64
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -						BE-702		CONTRACT NO. 60K62	
	PLOT DATE = 2/3/2011	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



TEMPORARY LIGHT POLE DETAIL



TEMPORARY LIGHT POLE ATTACHMENT DETAIL

NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED

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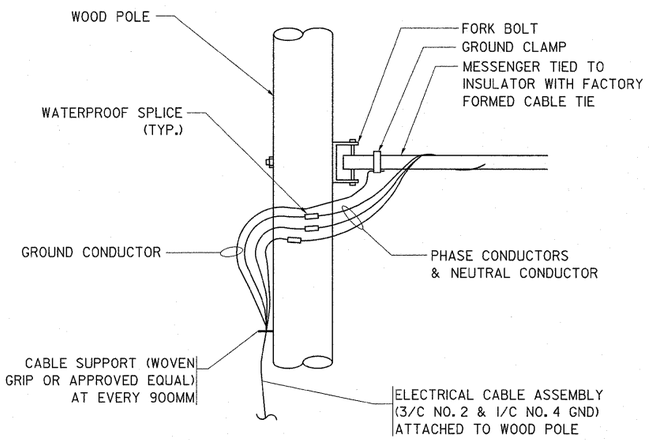
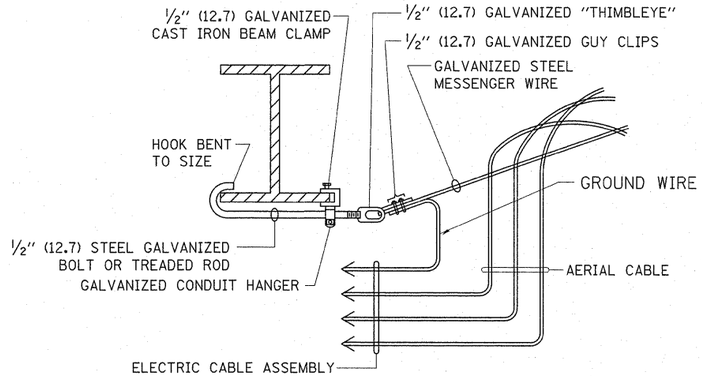
	PLOT SCALE = 50.0000 ' / IN.	DRAWN -	REVISED -		SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.
	PLOT DATE = 2/3/2011	CHECKED -	REVISED -		
		DATE -	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	65
	BE-800	CONTRACT NO. 60K62		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



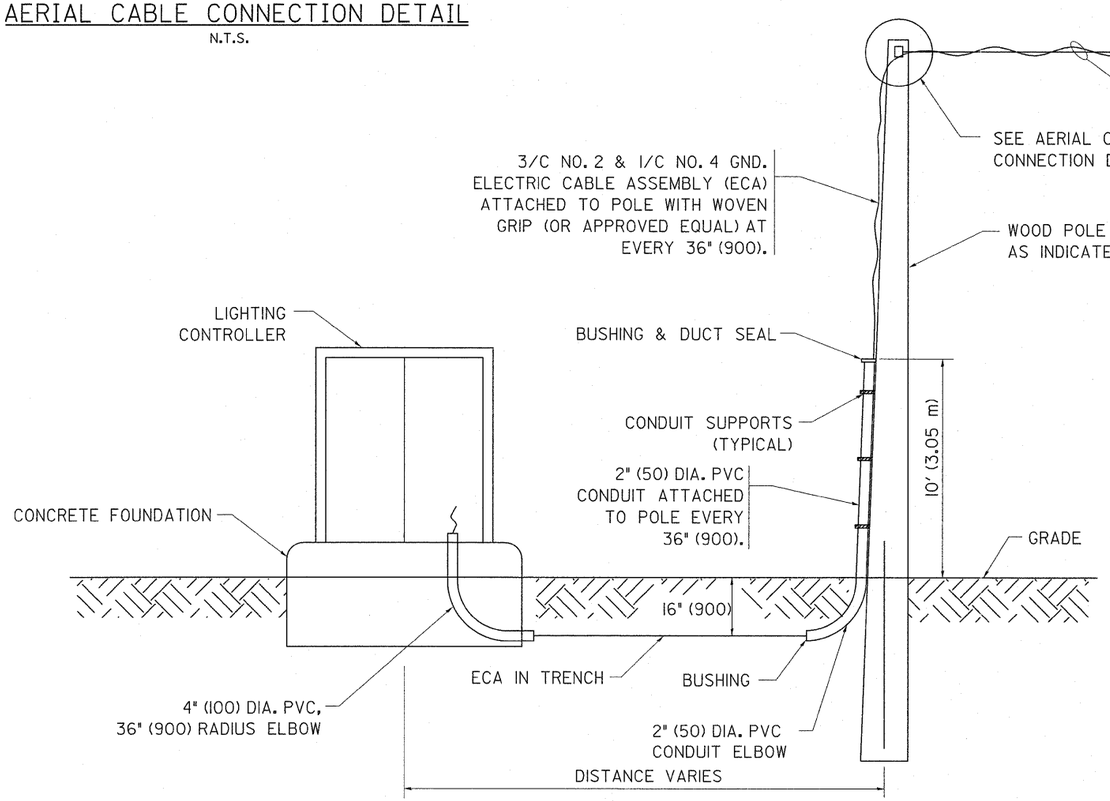
AERIAL CABLE CONNECTION DETAIL

N.T.S.



AERIAL CABLE ATTACHED TO STRUCTURE

NOT TO SCALE



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. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.

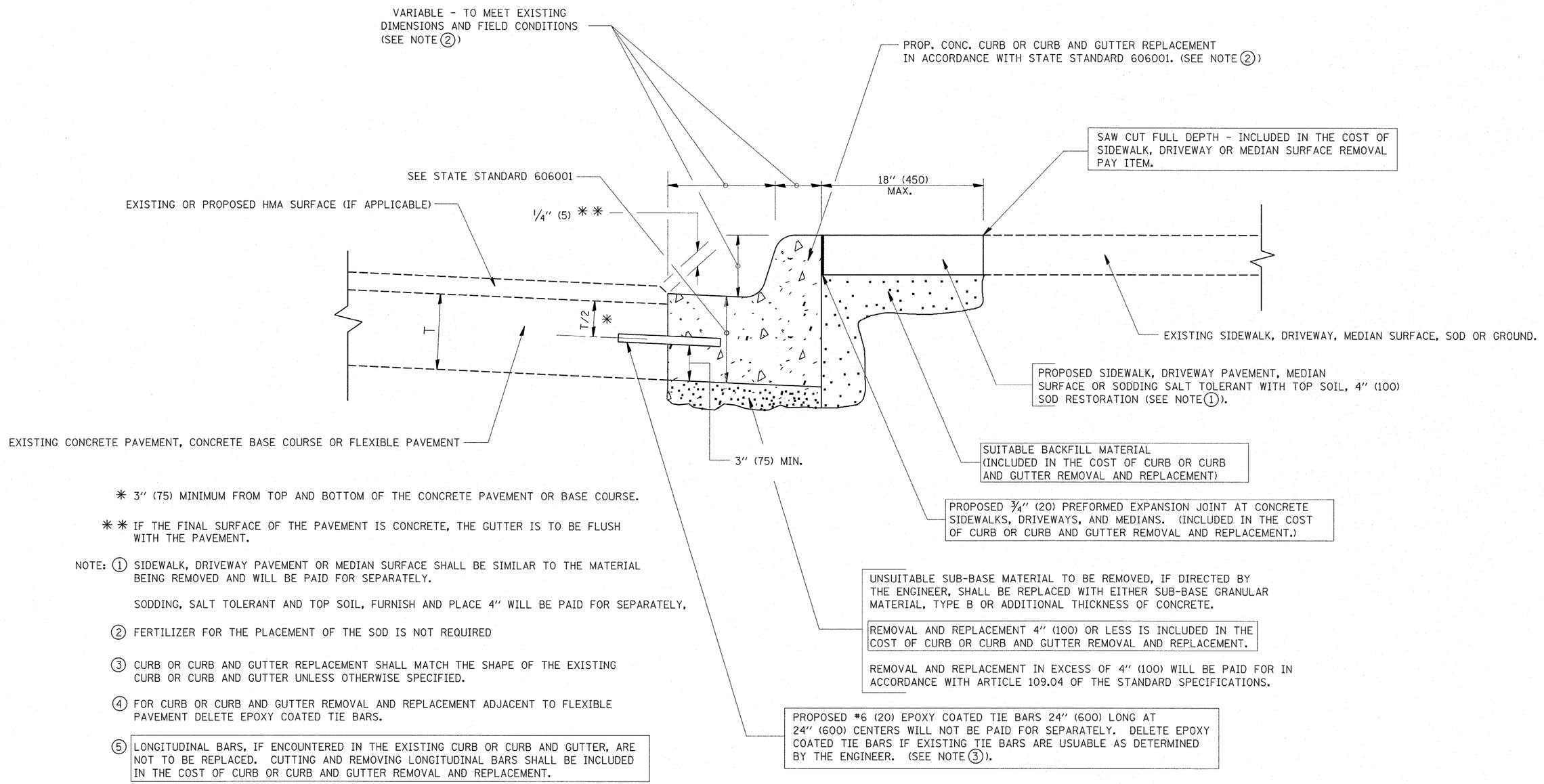
FILE NAME = c:\pw_work\pwdot\kellers\d0156262\Dist5d.dgn	USER NAME = kellers	DESIGNED -	REVISED - 08-08-03
		DRAWN -	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 2/3/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY AERIAL CABLE INSTALLATION

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	66
	BE-801	CONTRACT NO. 60K62		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

* * IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: (1) SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY,

(2) FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

(3) CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

(4) FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

(5) LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

(6) THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

(7) THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

(8) THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

BASIS OF PAYMENT:

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

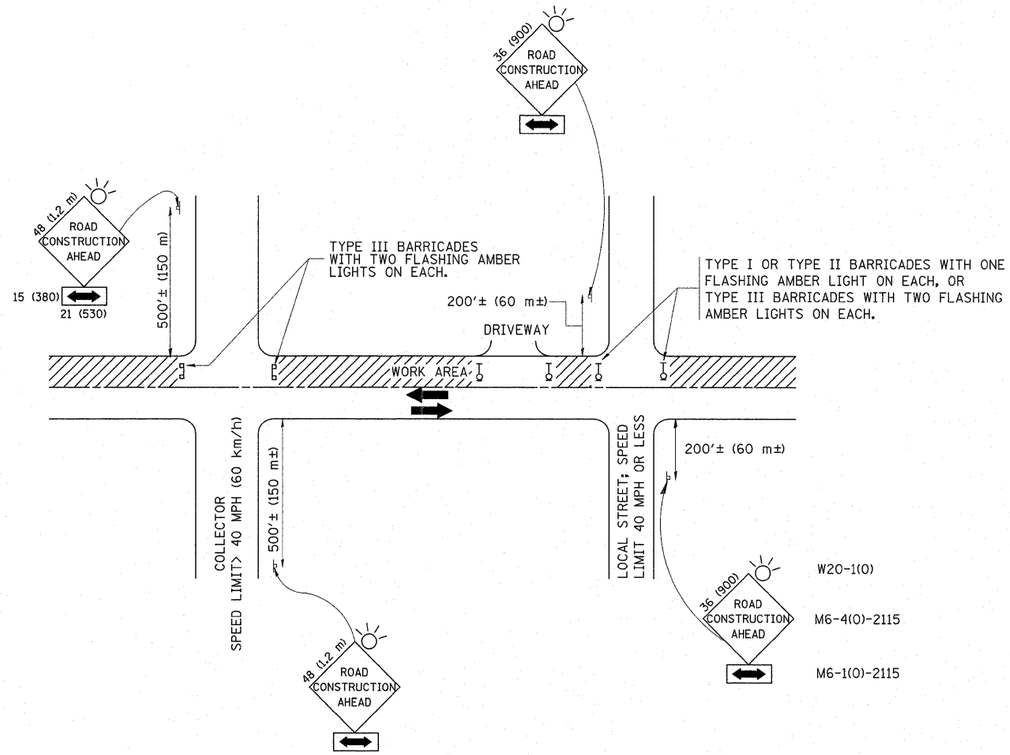
FILE NAME = c:\pw_work\pwidot\kellers\d2156262\DistStd.dgn	USER NAME = kellers	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96
		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - M. GOMEZ 01-22-01
	PLOT DATE = 2/3/2011	DATE - 03-11-94	REVISED - R. BORO 12-15-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	67
	BD600-06 (BD-24)	CONTRACT NO. 60K62		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

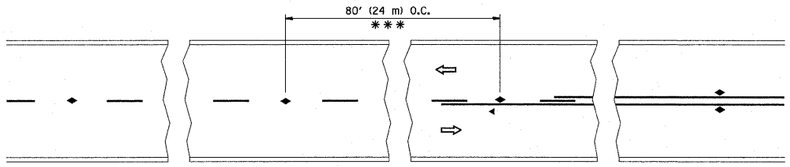
FILE NAME = c:\pw_work\pwidot\kellers\d0156262\DistSd.dgn	USER NAME = kellers	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 2/3/2011	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

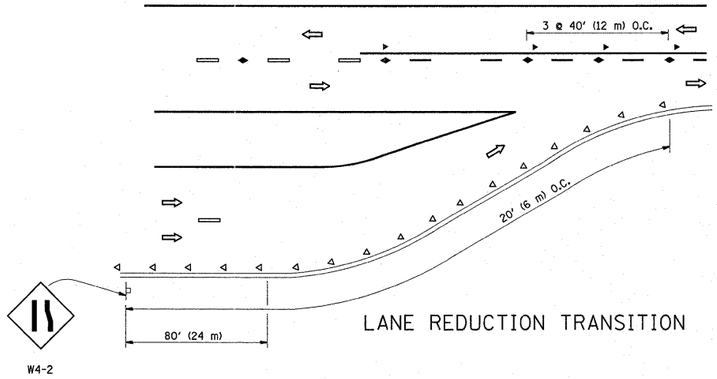
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	68
	TC-10	CONTRACT NO. 60K62		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

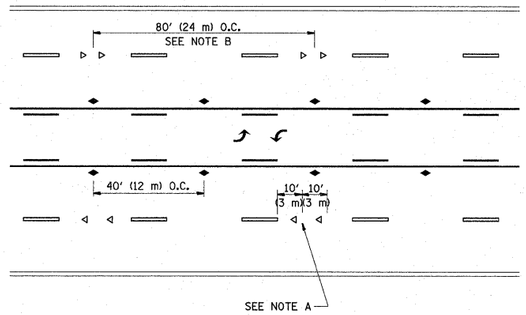


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

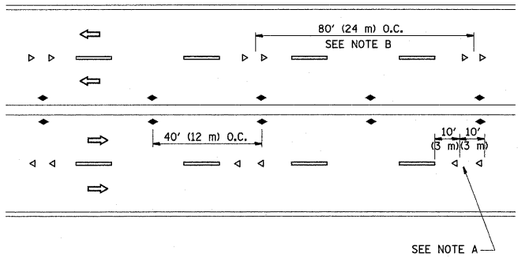
TWO-LANE/TWO-WAY



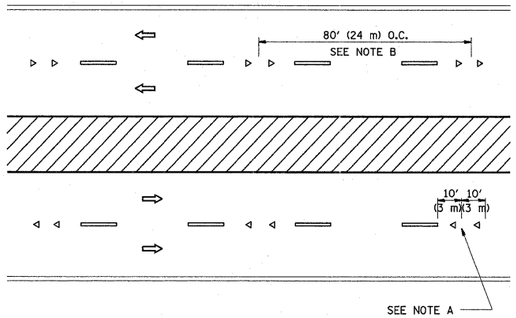
LANE REDUCTION TRANSITION



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

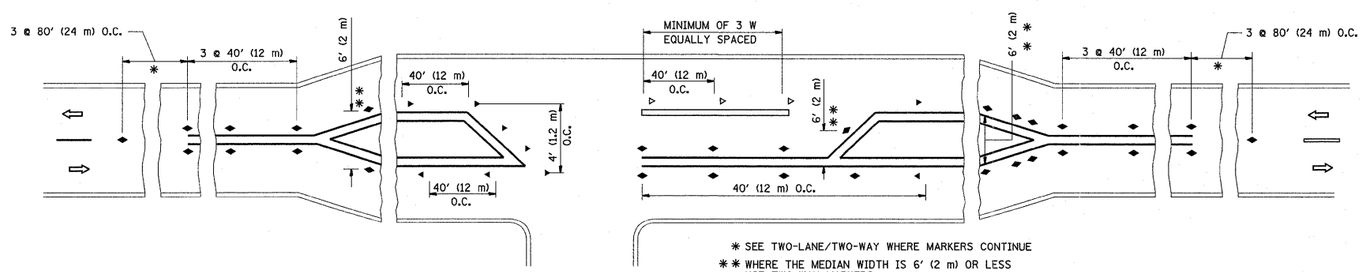
LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

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.

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 inches (millimeters) unless otherwise shown.

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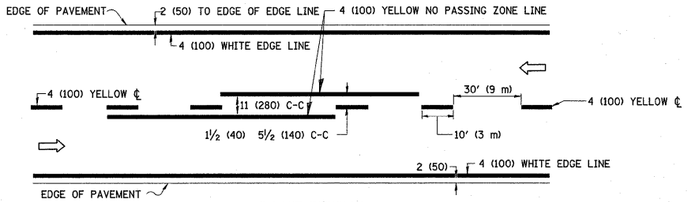
		DRAWN -	REVISED -T. RAMMACHER 03-12-99
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 01-06-00
	PLOT DATE = 2/3/2011	DATE -	REVISED - C. JUCIUS 09-09-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

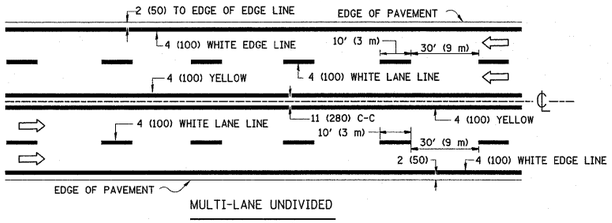
TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

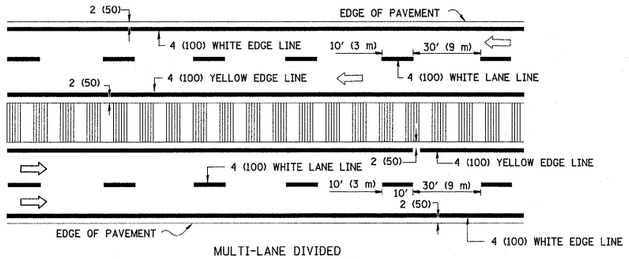
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	69
	TC-11	CONTRACT NO. 60K62		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



2-LANE ROADWAY



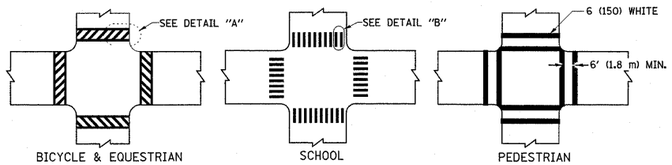
MULTI-LANE UNDIVIDED

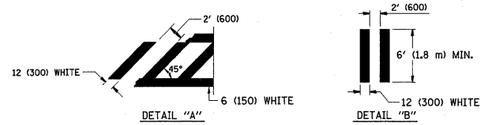


MULTI-LANE DIVIDED
WITH MOUNTABLE MEDIAN

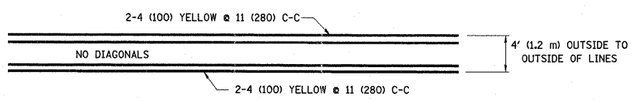
NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

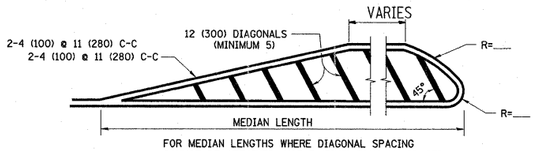




TYPICAL CROSSWALK MARKING



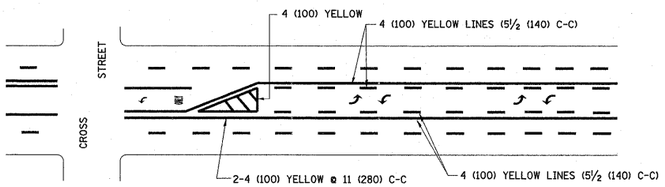
4' (1.2 m) WIDE MEDIANS ONLY



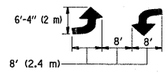
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

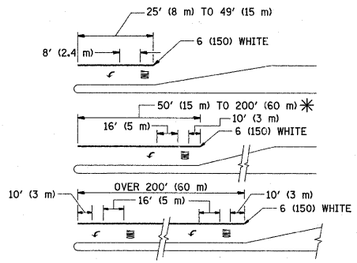


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

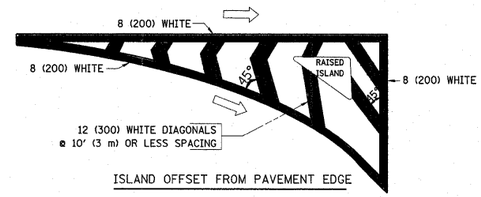


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
↰ AREA = 15.6 SQ. FT. (1.5 m^2) ONLY AREA = 20.8 SQ. FT. (1.9 m^2)

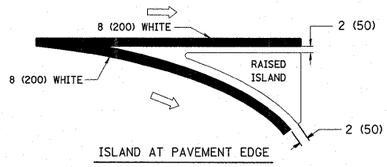
✳ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

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 UNDIVIDED 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 inches (millimeters) unless otherwise shown.

FILE NAME = c:\pw_work\pwidot\kellers\d0156262\DistSheet.dgn	USER NAME = kellers	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94
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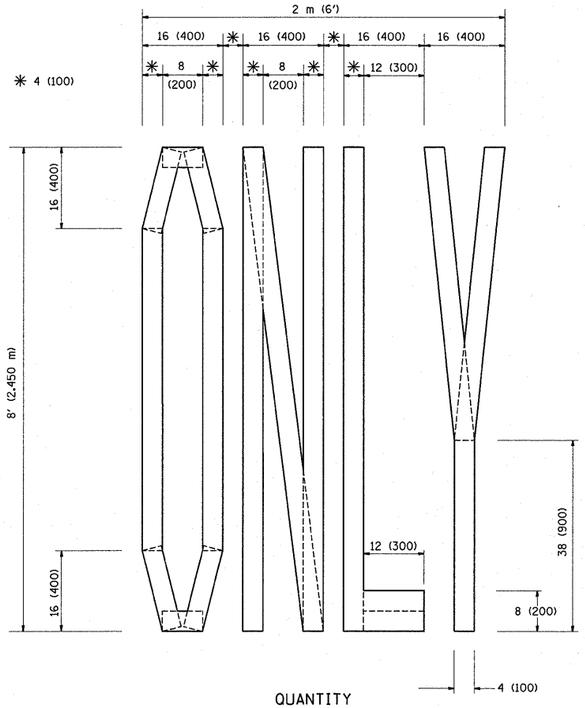
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 2/3/2011	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

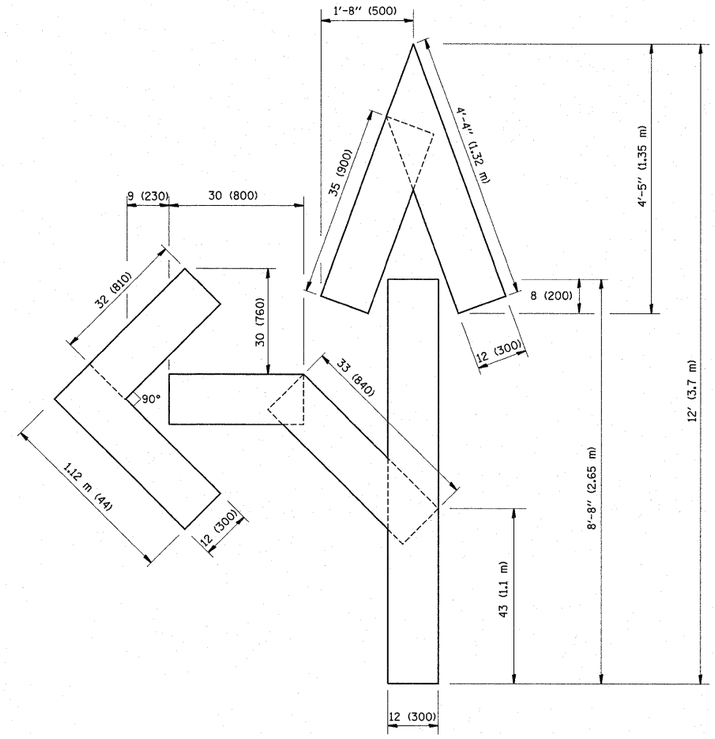
DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

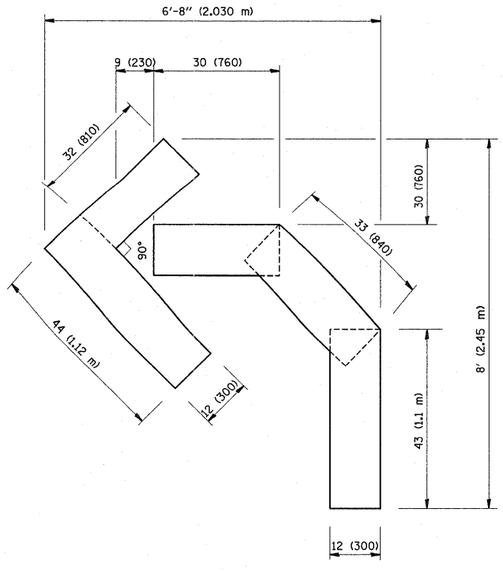
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	70
	TC-13	CONTRACT NO. 60K62		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



QUANTITY
4 (100) LINE = 64.1 ft. (19.7 m)
21.1 sq. ft. (1.97 sq. m)



QUANTITY
4 (100) LINE = 82.5 ft. (25.3 m)
27.5 sq. ft. (2.53 sq. m)



QUANTITY
4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.39 sq. m)

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

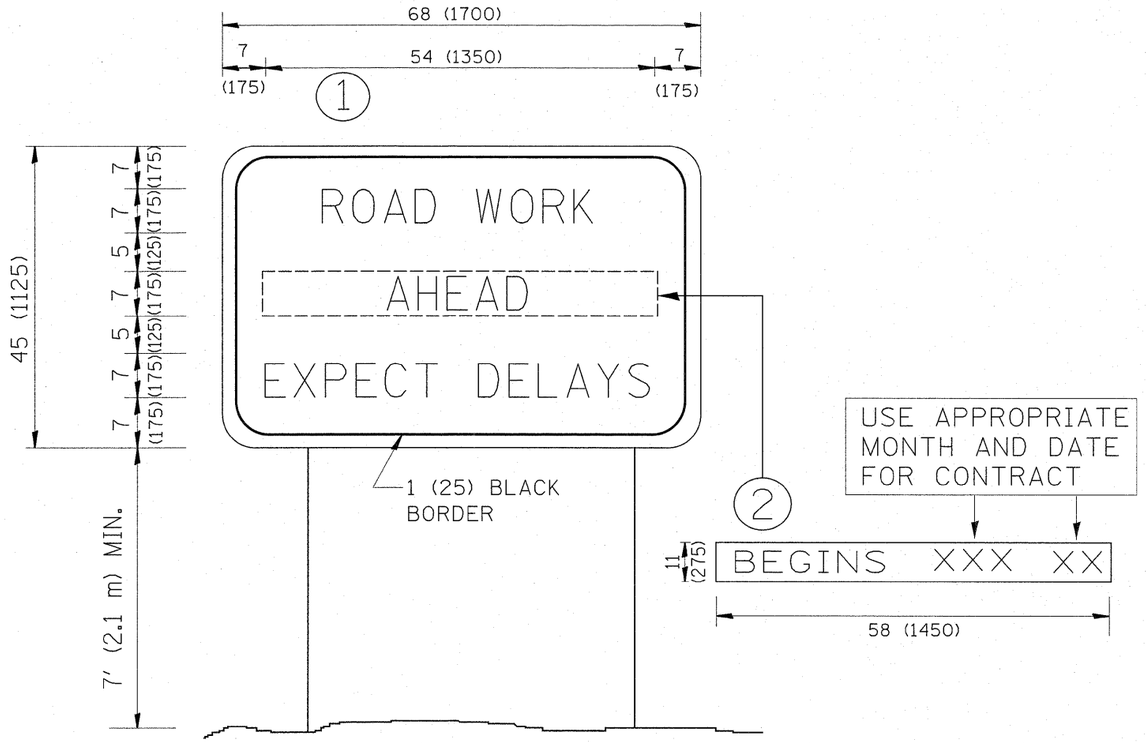
FILE NAME = c:\pw_work\pwidot\kellers\d0156262\DistStd.dgn	USER NAME = kellers	DESIGNED -	REVISED -T. RAMMACHER 06-05-96
		DRAWN -	REVISED -T. RAMMACHER 11-04-97
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98
	PLOT DATE = 2/3/2011	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	71
	TC-16	CONTRACT NO. 60K62		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL (2) SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

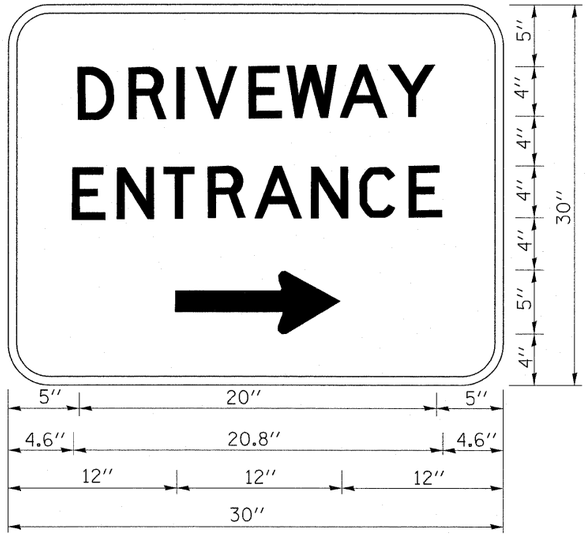
FILE NAME = c:\pw_work\pwidot\kellers\d0156262\D1stSd.dgn	USER NAME = kellers	DESIGNED -	REVISED - R. MIRS 09-15-97
		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 2/3/2011	DATE -	REVISED - C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	72
	TC-22	CONTRACT NO. 60K62		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



3.0'' RADIUS, 0.5'' BORDER, WHITE ON GREEN; REFLECTORIZED
''DRIVEWAY'' D; ''ENTRANCE'' D; STANDARD ARROW CUSTOM 12.0'' × 5.0''

NOTES:

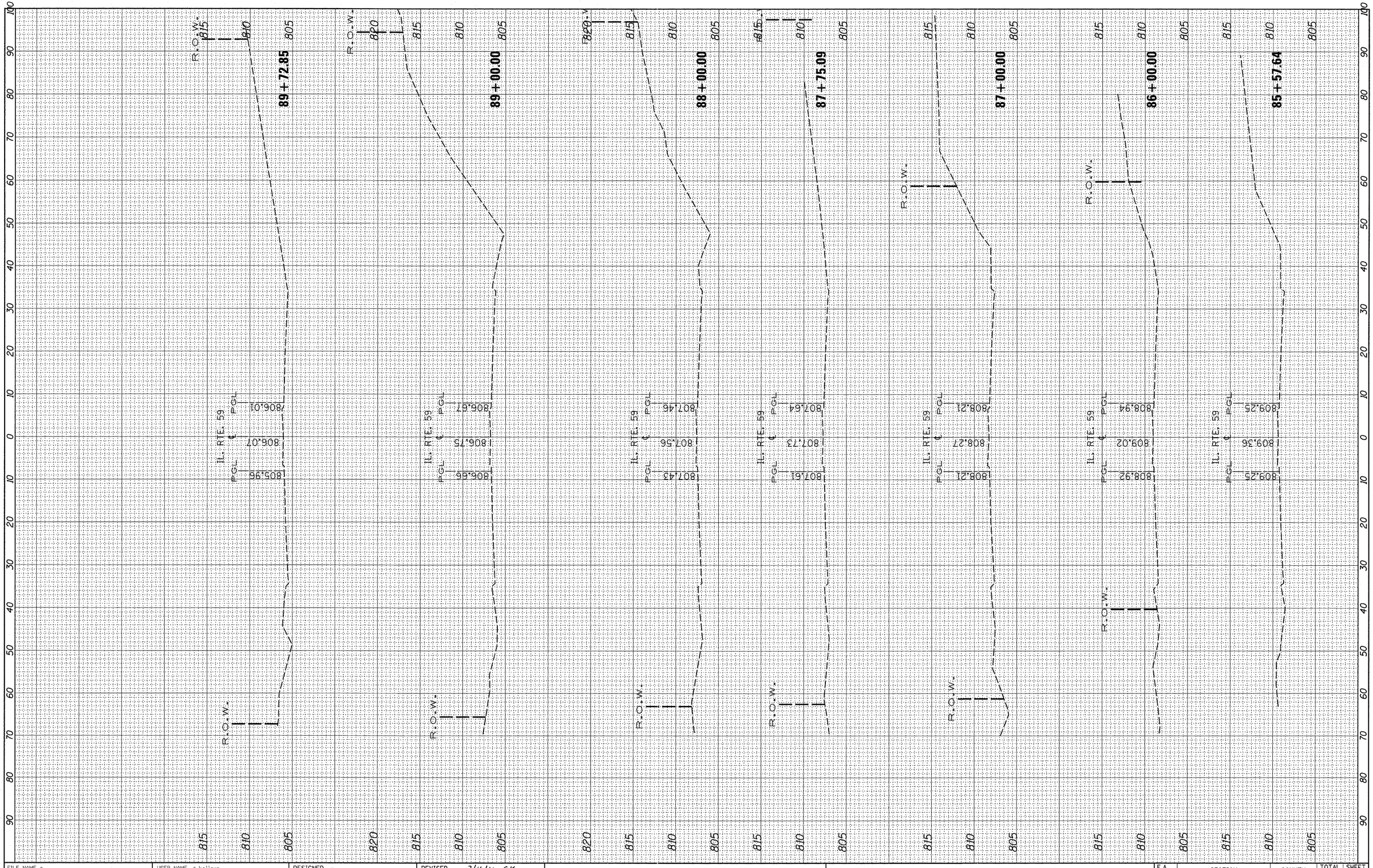
1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM ''TEMPORARY INFORMATION SIGNING''.

FILE NAME = c:\pw_work\pwidot\kellers\d0156262\DistStd.dgn	USER NAME = kellers	DESIGNED -	REVISED - C. JUCIUS 02-15-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRIVEWAY ENTRANCE SIGNING
	PLOT SCALE = 50.0000 ' / IN.	DRAWN -	REVISED -		SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.
	PLOT DATE = 2/22/2011	CHECKED -	REVISED -		
		DATE -	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	73
	TC-26	CONTRACT NO. 60K62		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

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

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



FILE NAME =	USER NAME = kellers	DESIGNED -	REVISED - 3/16/11 SK
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	PLOT SCALE = 10.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 3/16/2011	DATE -	REVISED -

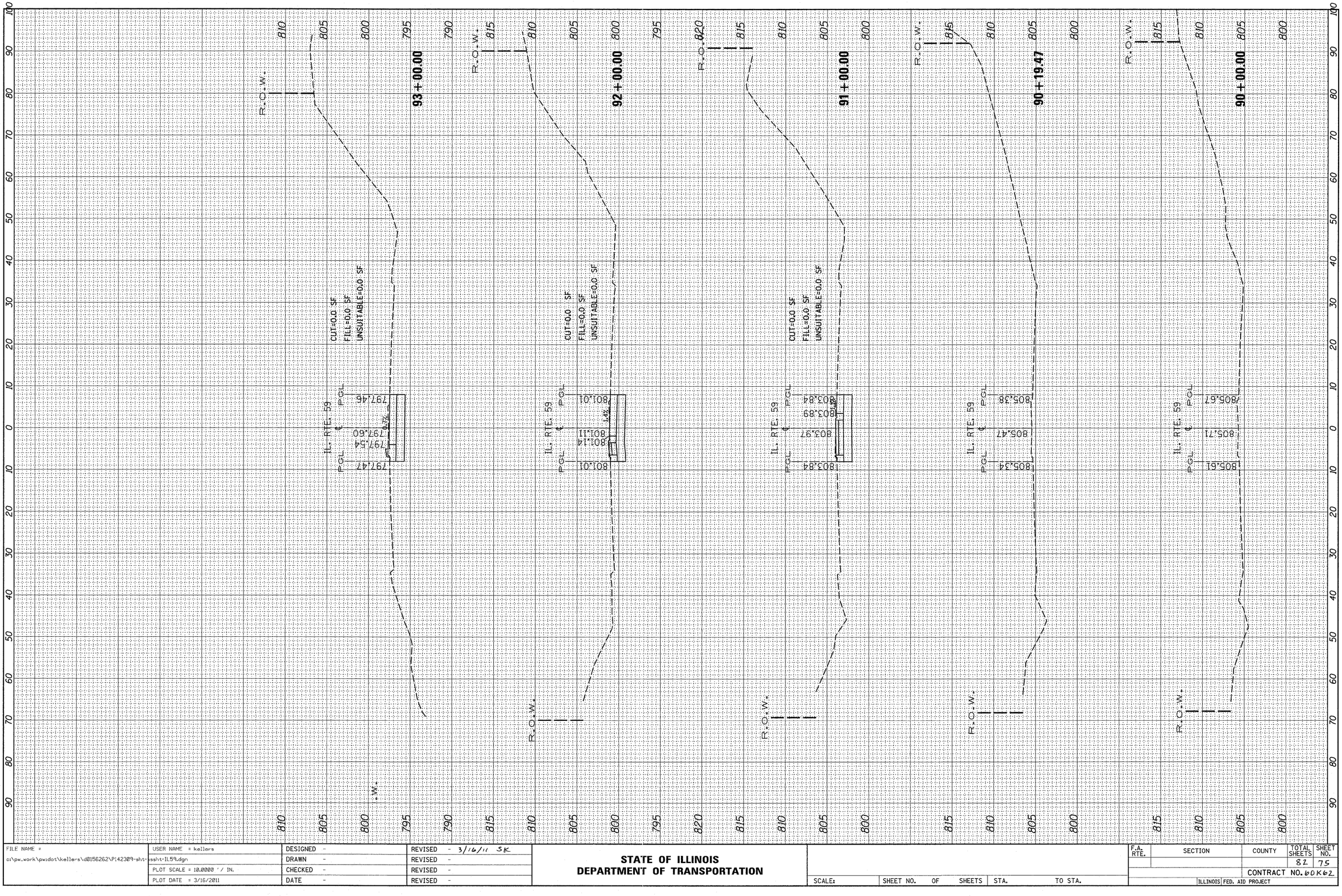
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			82	74
		CONTRACT NO. 60K62		
		ILLINOIS FED. AID PROJECT		

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

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



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	PLOT SCALE = 10.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 3/16/2011	DATE -	REVISED -

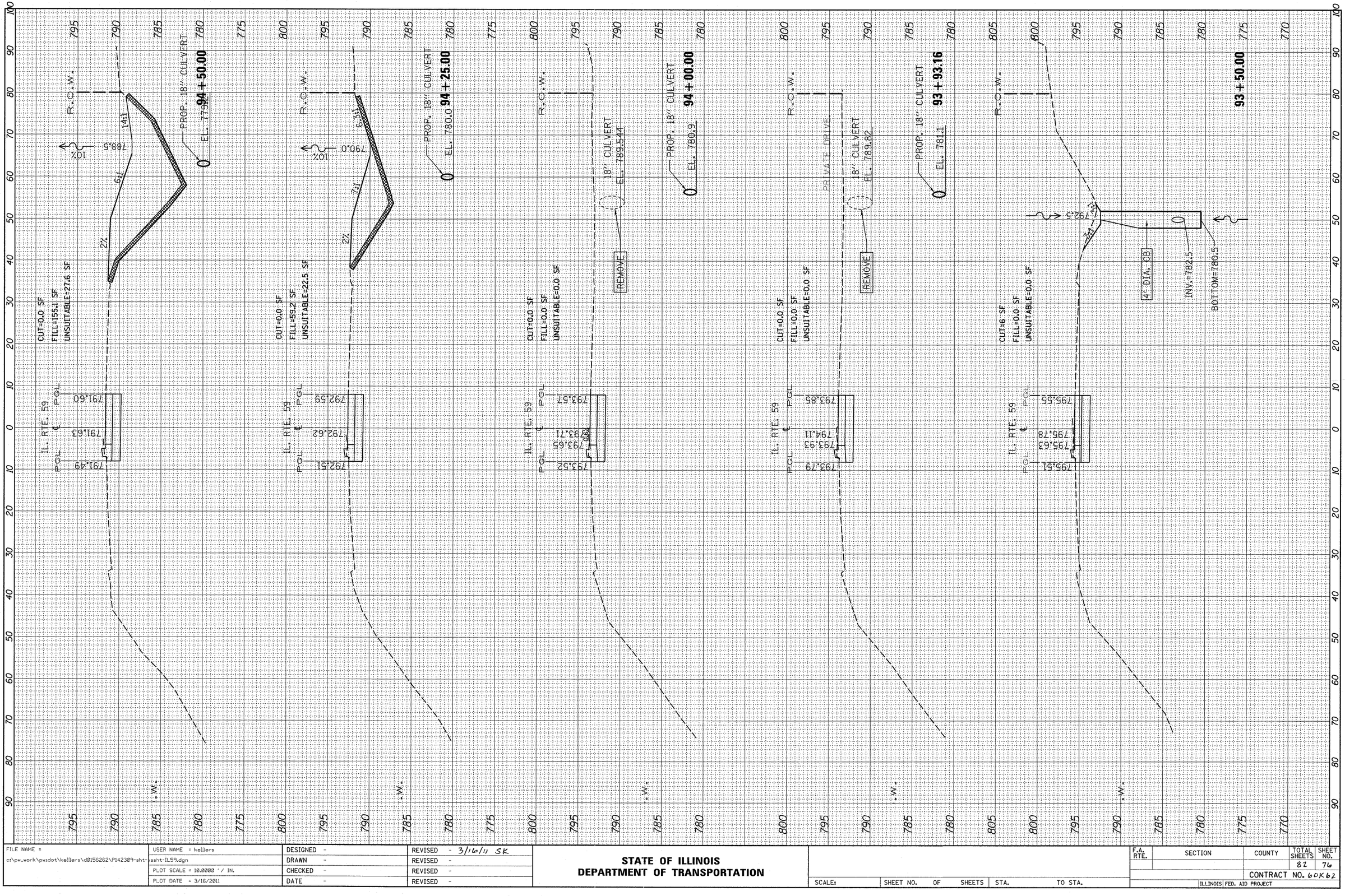
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			82	75
		CONTRACT NO. 60K62		
		ILLINOIS FED. AID PROJECT		

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

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



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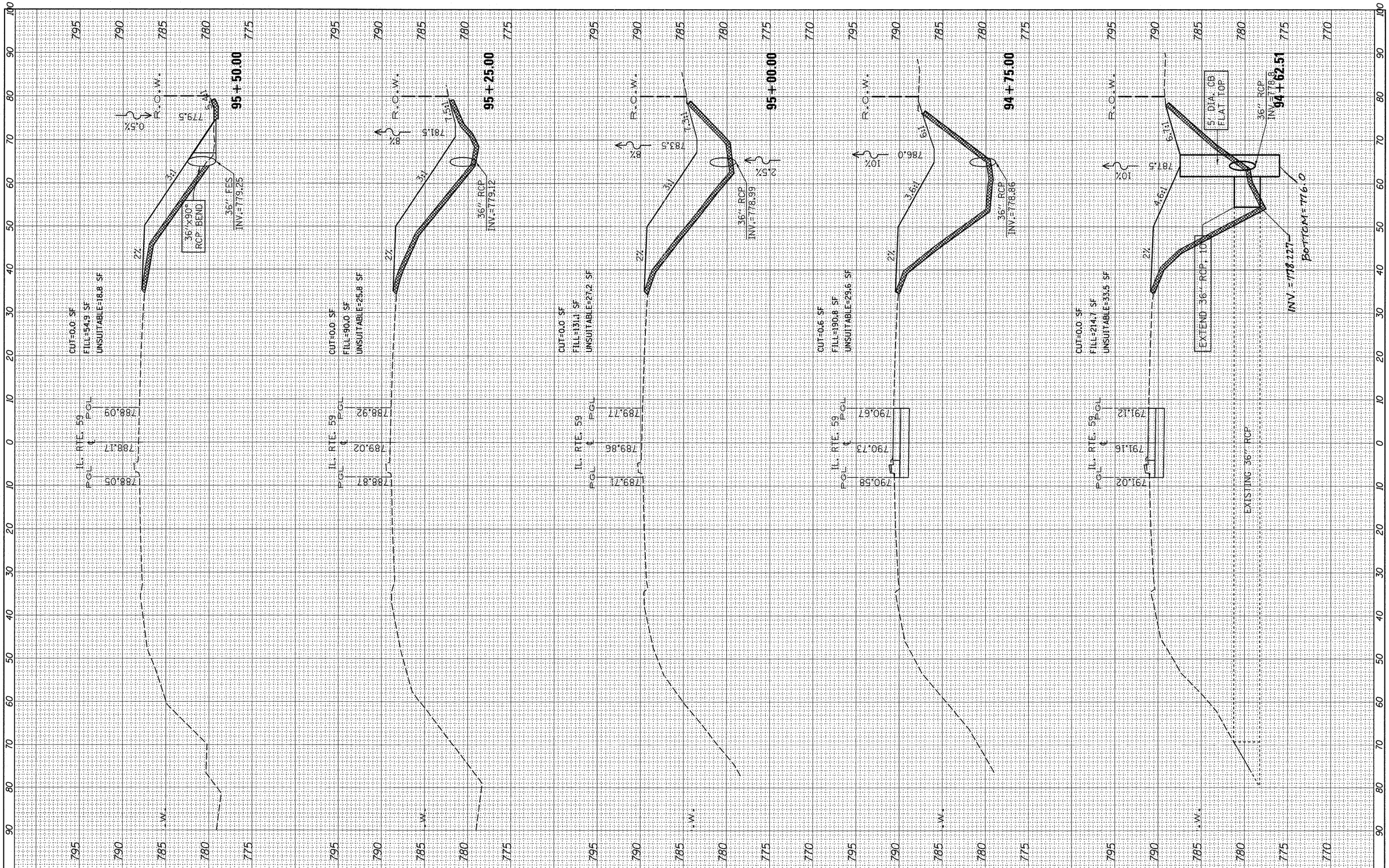
	PLOT SCALE = 10.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 3/16/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			82	76
		CONTRACT NO. 60K62		
		ILLINOIS	FED. AID PROJECT	

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



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

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	PLOT DATE = 3/16/2011	CHECKED -	REVISED -
		DATE -	REVISED -

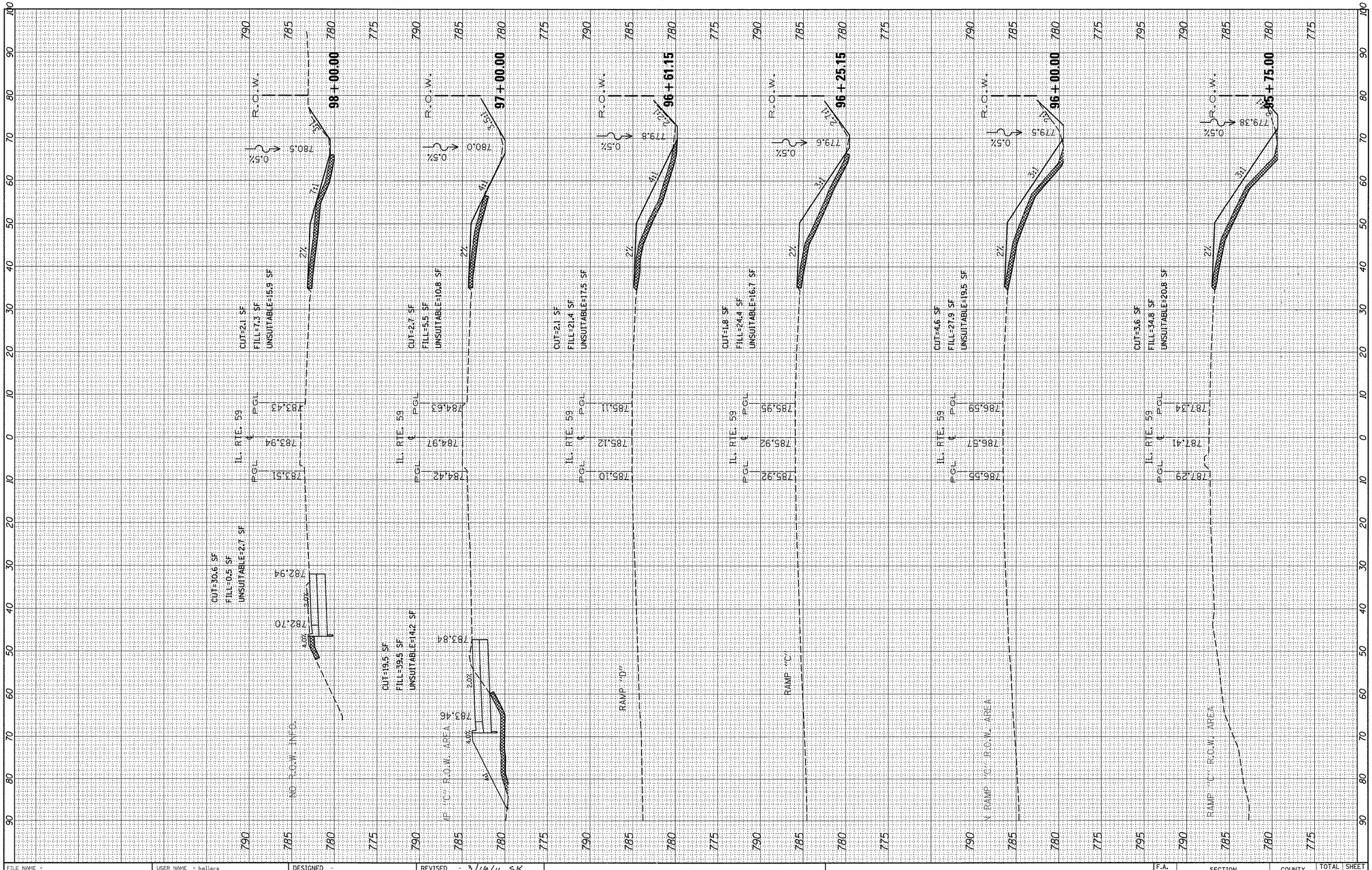
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			82	77
			CONTRACT NO. 60K62	
			ILLINOIS FED. AID PROJECT	

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

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



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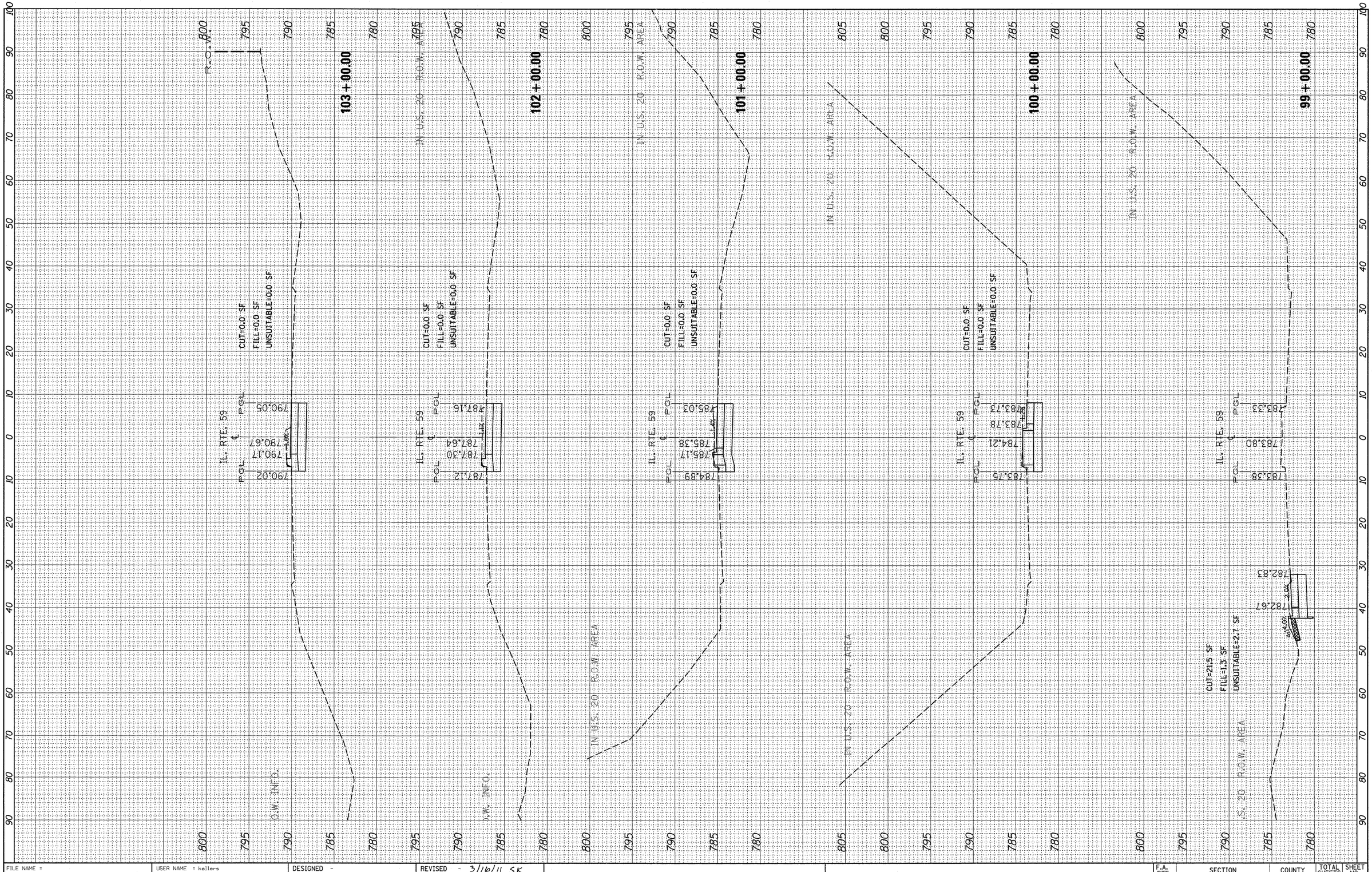
	PLOT SCALE = 10.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 3/16/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			82	78
			CONTRACT NO. 60K62	
		ILLINOIS	FED. AID PROJECT	

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



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

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	PLOT DATE = 3/16/2011	CHECKED -	REVISED -
		DATE -	REVISED -

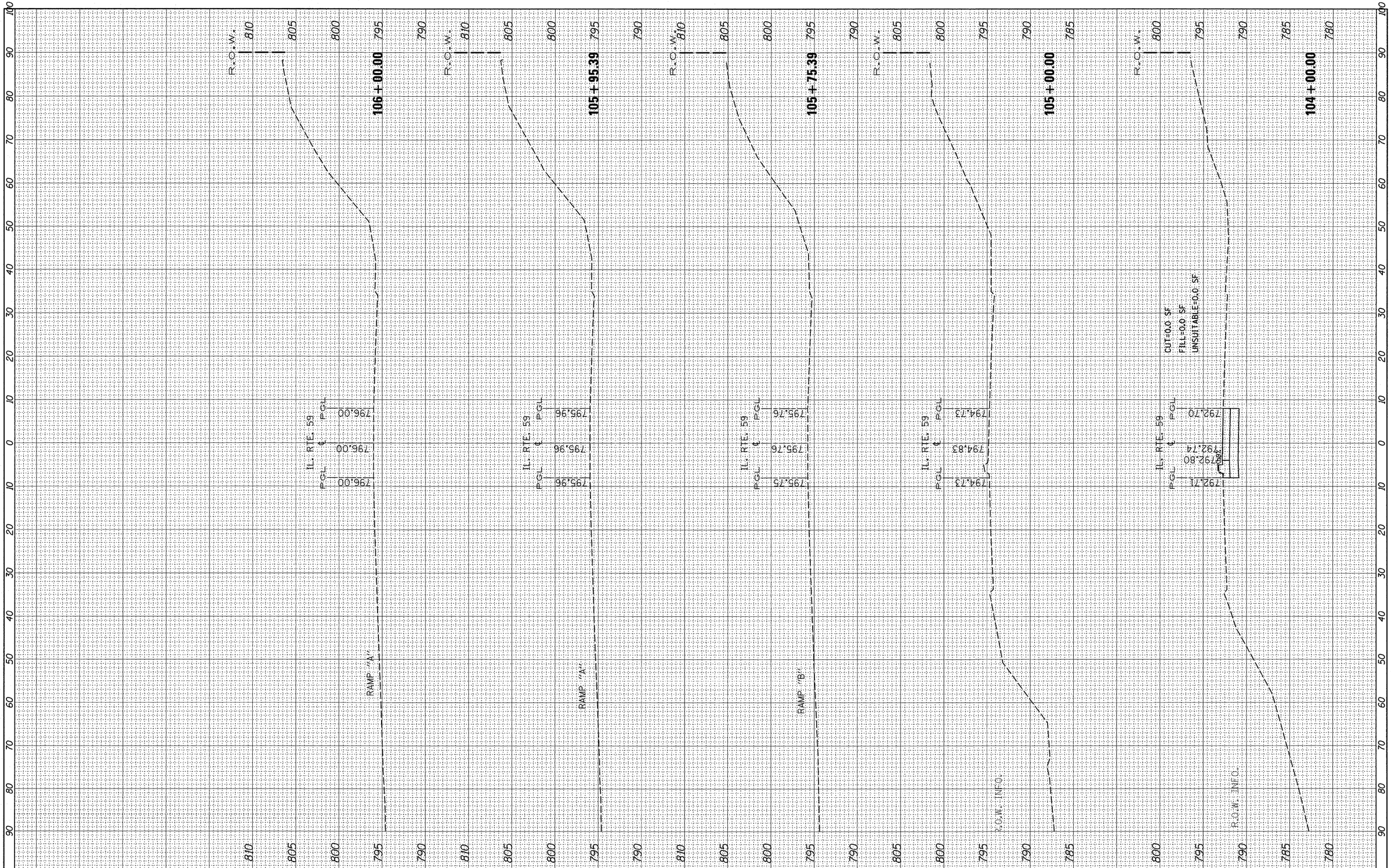
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			82	79
			CONTRACT NO. 60K62	
		ILLINOIS	FED. AID PROJECT	

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

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



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	PLOT SCALE = 10.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 3/16/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			82	80
			CONTRACT NO. 60K62	
		ILLINOIS	FED. AID PROJECT	

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

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

109 + 59.53

CUT=0.0 SF
FILL=46.9 SF
UNSUITABLE=17.8 SF

IL. RTE. 59 ℄ PGL 796.66

796.62

1.5%

793.8

R.O.W.

EXIST. 2" HOUSE DRAIN

4' DIA. C.B. FLAT TOP

INV.=790.4

ADD 10'-27" RCP

796.59

796.62

CUT=3.6 SF
FILL=22.7 SF
UNSUITABLE=10.1 SF

IL. RTE. 59 ℄ PGL 796.53

796.59

796.54

2.0%

795.0

R.O.W.

2:1

109 + 00.00

IL. RTE. 59 ℄ PGL 796.53

796.58

796.54

EXIST. 12" RCP

EXIST. CB RIM=795.94

INV.=793.02

108 + 65.00

R.O.W.

108 + 00.00

IL. RTE. 59 ℄ PGL 796.66

796.71

796.69

107 + 00.00

IL. RTE. 59 ℄ PGL 796.71

797.21

796.62

CUT=26.3 SF
FILL=11.1 SF
UNSUITABLE=6.5 SF

R.O.W.

EXIST. MH RIM=793.65

4.0%

1.0%

INV.=789.21

EXIST. 2" RCP

INV.=789.32

EXIST. MH RIM=796.22

796.19

795.95

CUT=46.0 SF
FILL=0.8 SF
UNSUITABLE=2.3 SF

R.O.W.

PROP. DETENTION AREA

793.0

4.0%

0.5%

796.13

795.89

CUT=75.1 SF
FILL=1.9 SF
UNSUITABLE=2.7 SF

PROP. DETENTION AREA

792.6

12" IES

INV.=792.6

15"-12" RCP

INV.=792.5

0.5%

EXIST. CB RIM=795.94

INV.=792.44

10"-8" RCP

BOTTOM = 791.0

4' DIA. CB

796.06

795.82

CUT=47.5 SF
FILL=6.8 SF
UNSUITABLE=5.7 SF

PROP. DETENTION AREA

793.0

4.0%

796.34

796.10

CUT=60.9 SF
FILL=2.0 SF
UNSUITABLE=3.4 SF

PROP. DETENTION AREA

793.5

4.0%

796.28

796.04

FILE NAME = c:\pw_work\pwidot\kellers\d0156262\P142309-sht-essht-IL59.dgn	USER NAME = kellers	DESIGNED -	REVISED - 3/16/11 SK
		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 3/16/2011	DATE -	REVISED -

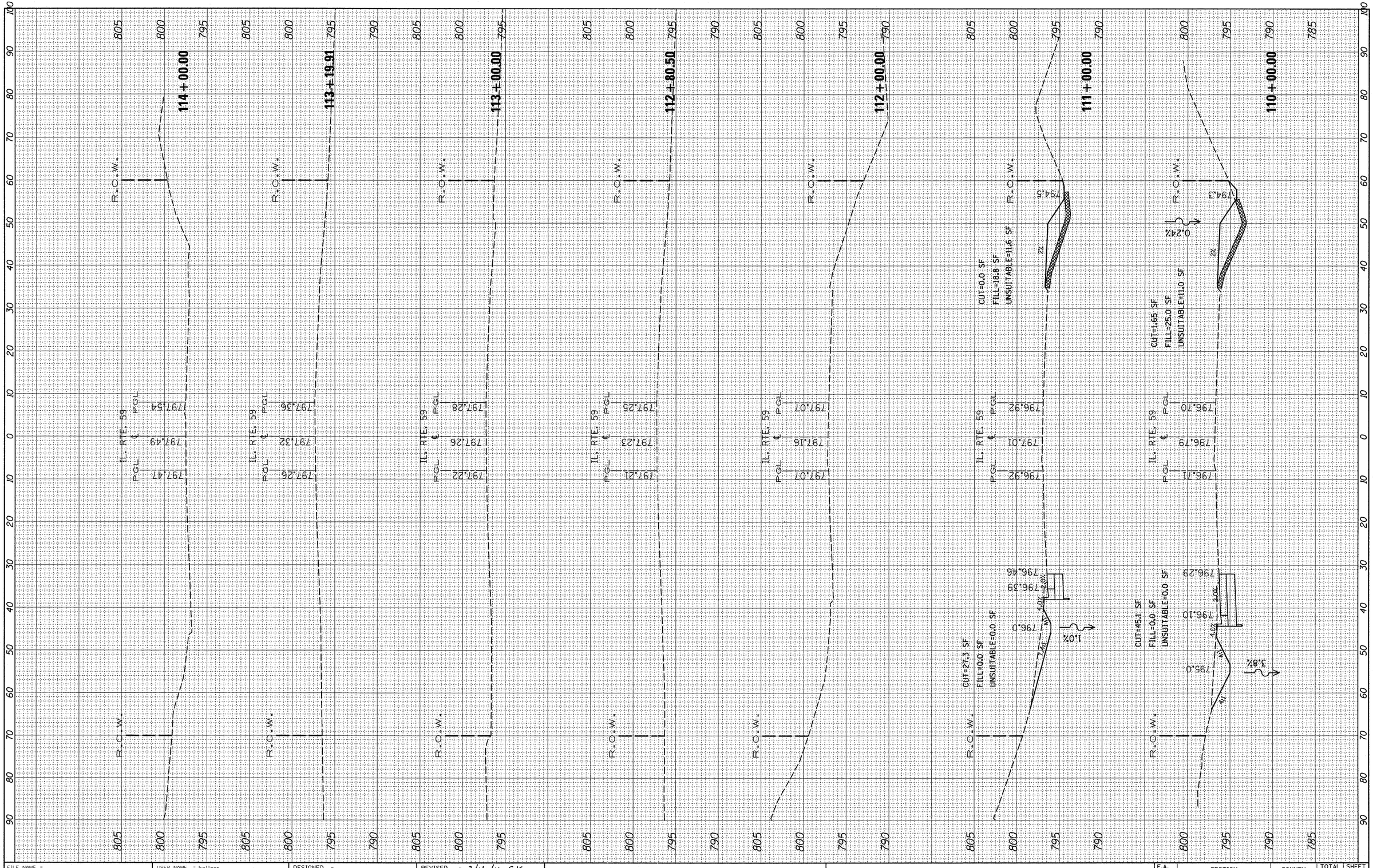
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			82	81
		CONTRACT NO. 60K62		
		ILLINOIS FED. AID PROJECT		

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

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



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		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 3/16/2011	DATE -	REVISED -

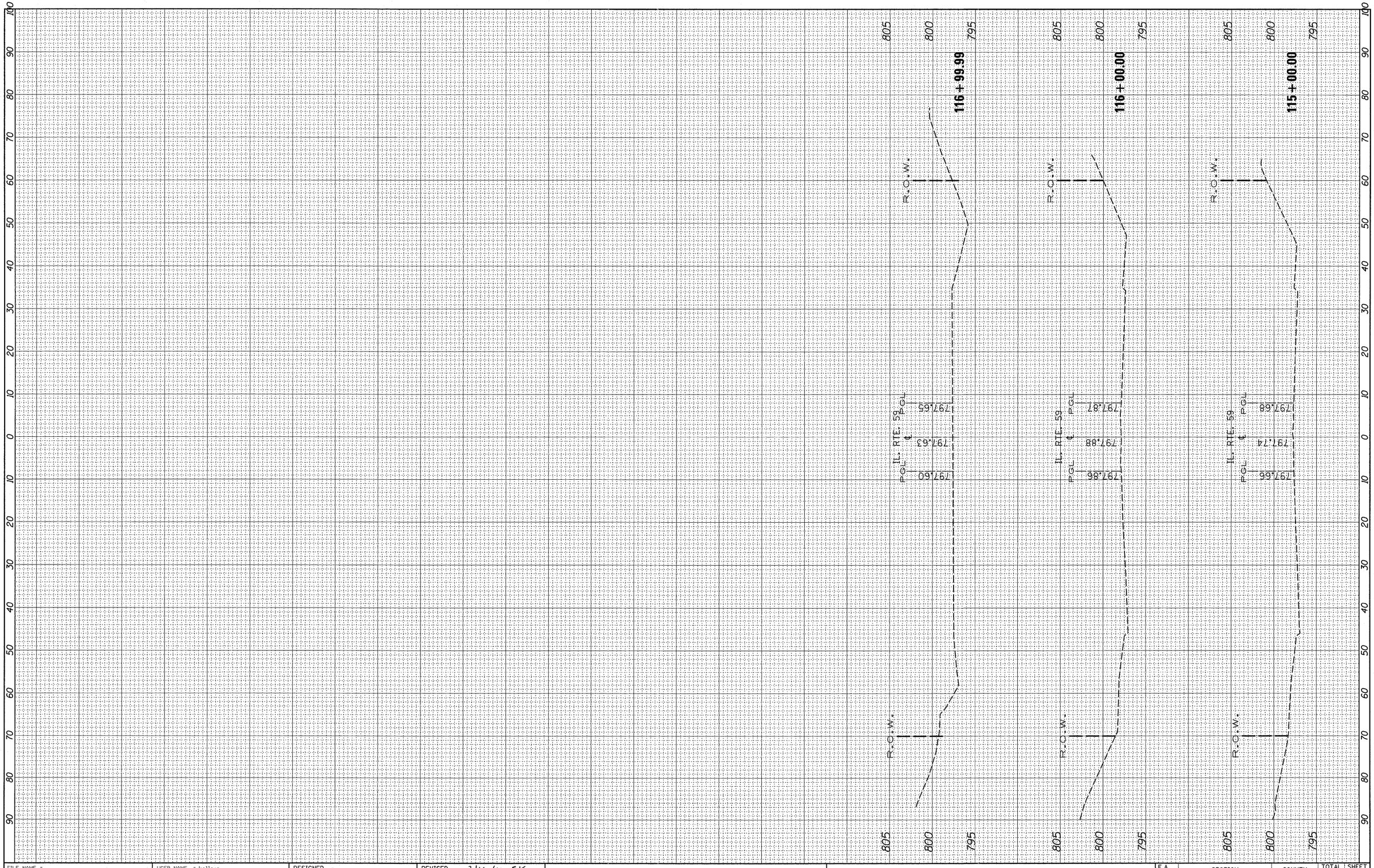
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			82	82
		CONTRACT NO. 60K62		
		ILLINOIS FED. AID PROJECT		

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

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



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		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 3/16/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

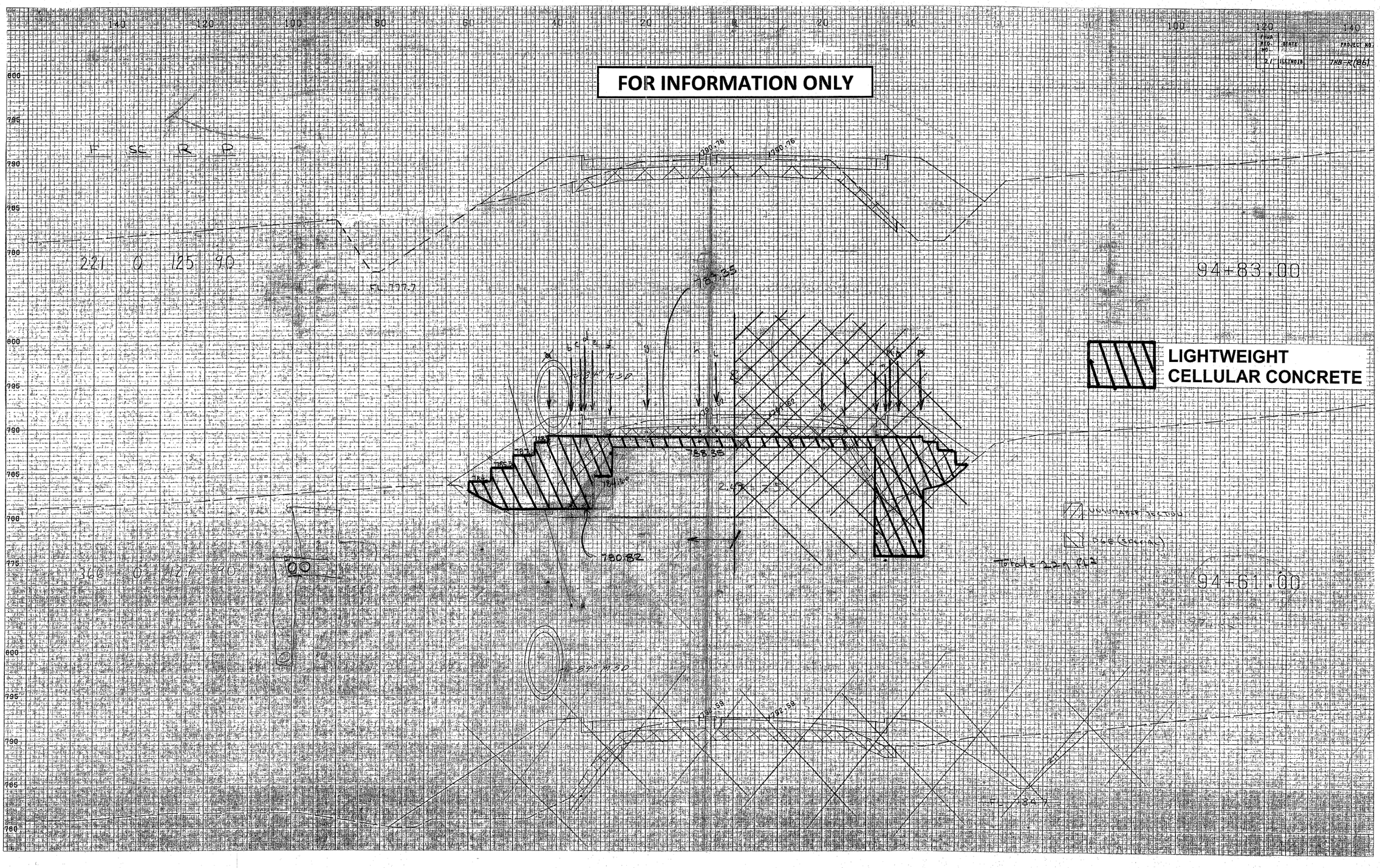
SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			82	82A

CONTRACT NO. 60K62

ILLINOIS | FED. AID PROJECT

FOR INFORMATION ONLY



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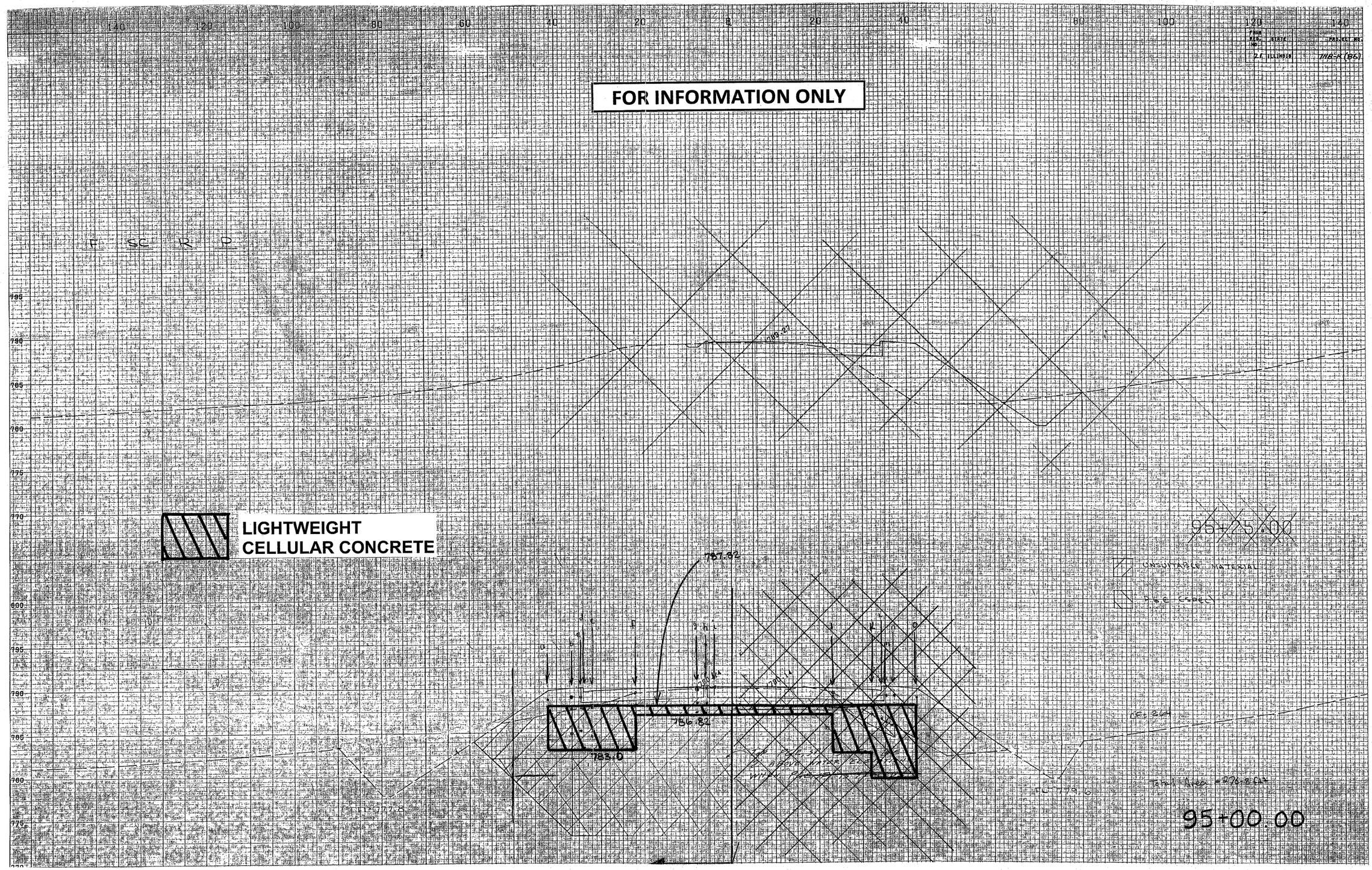
	PLOT SCALE = 50.0000 ' / IN.	DRAWN	REVISED -		SCALE: N.T.S. / SHEET NO. 2 OF 2 SHEETS / STA. / TO STA.
	PLOT DATE = 3/10/2011	CHECKED -	REVISED -		
		DATE -	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	82B
		CONTRACT NO. 60K62		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

FOR INFORMATION ONLY



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		DRAWN	REVISED -
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 3/11/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 59 AND US ROUTE 20
LIGHTWEIGHT CELLULAR CONCRETE CROSS SECTIONS

SCALE: N.T.S. | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

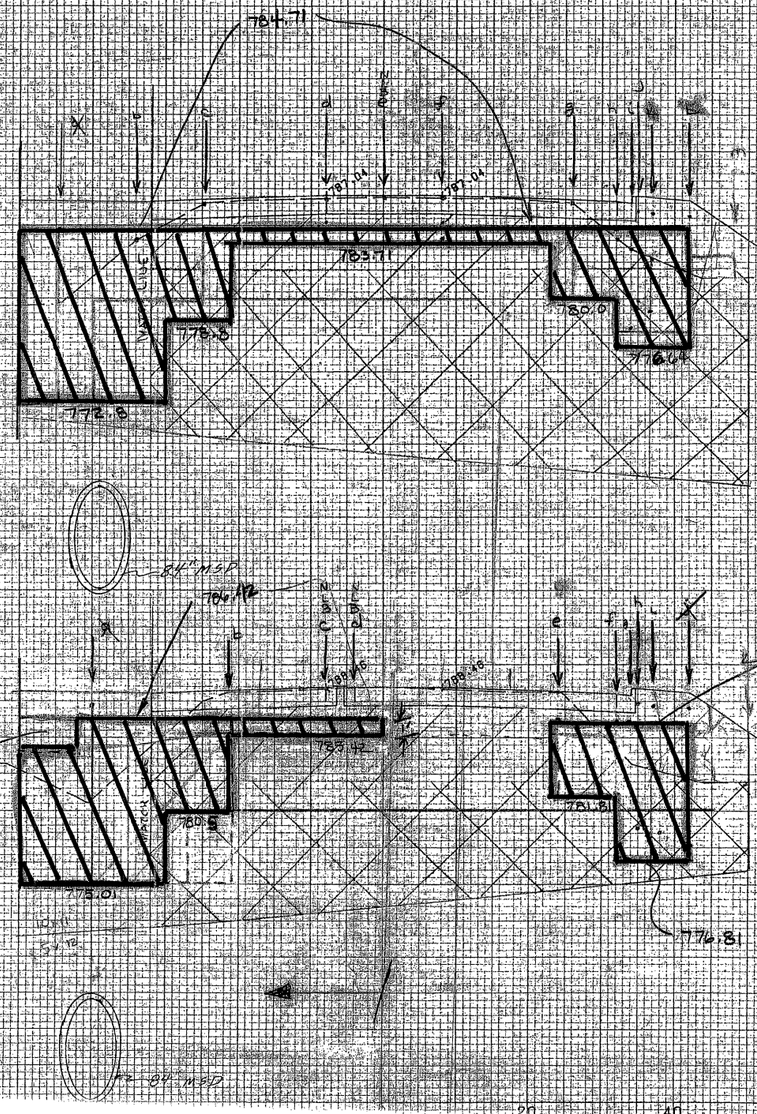
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	82C
		CONTRACT NO. 60K62		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

FOR INFORMATION ONLY

F S C R P

333	0	2,024	1,728	
746	0	1,341	660	

LIGHTWEIGHT CELLULAR CONCRETE



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	PLOT DATE = 3/11/2011	CHECKED -	REVISED -
		DATE -	REVISED -

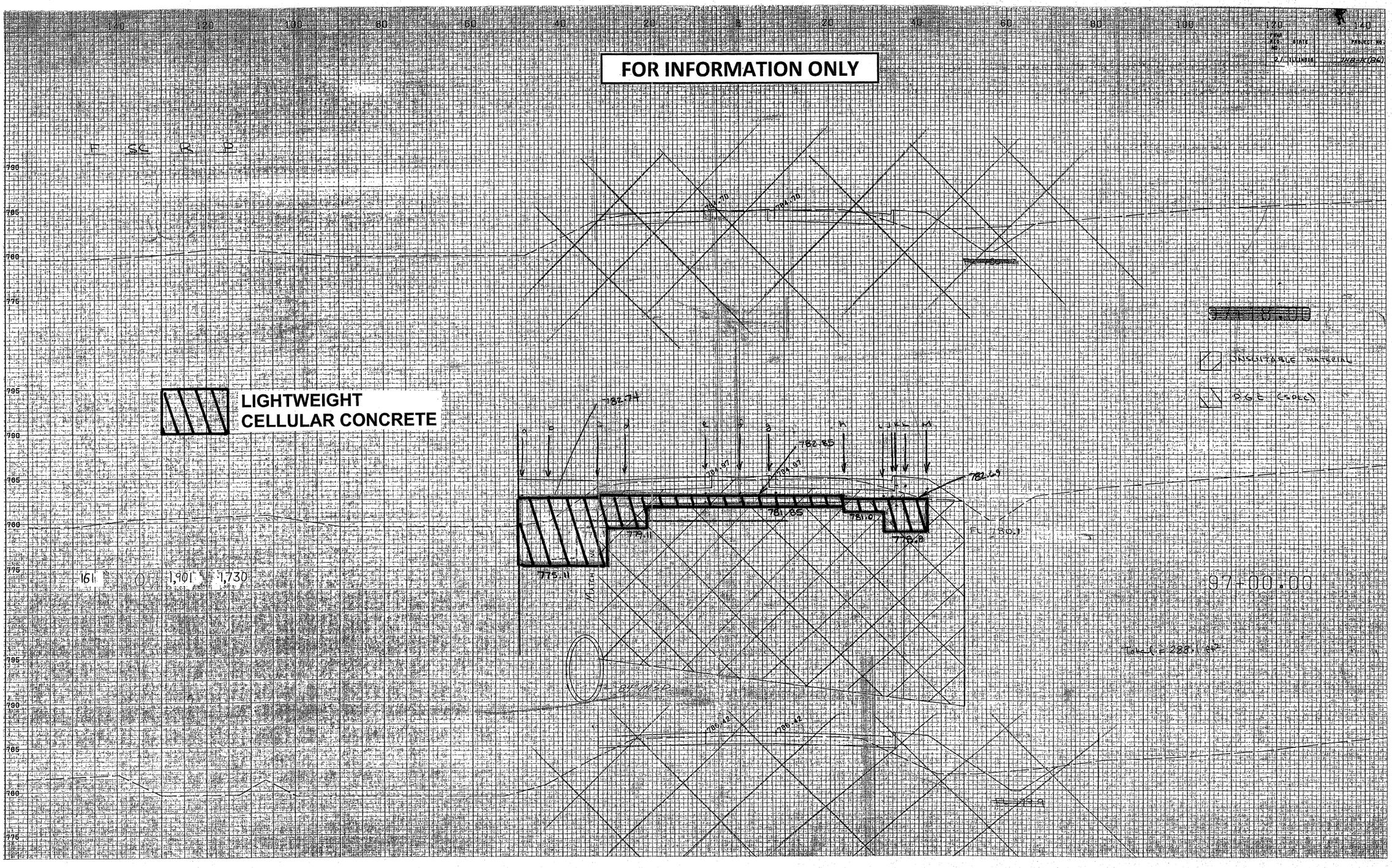
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 59 AND US ROUTE 20
LIGHTWEIGHT CELLULAR CONCRETE CROSS SECTIONS

SCALE: N.T.S. | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	82.D
		CONTRACT NO. 60K62		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

FOR INFORMATION ONLY



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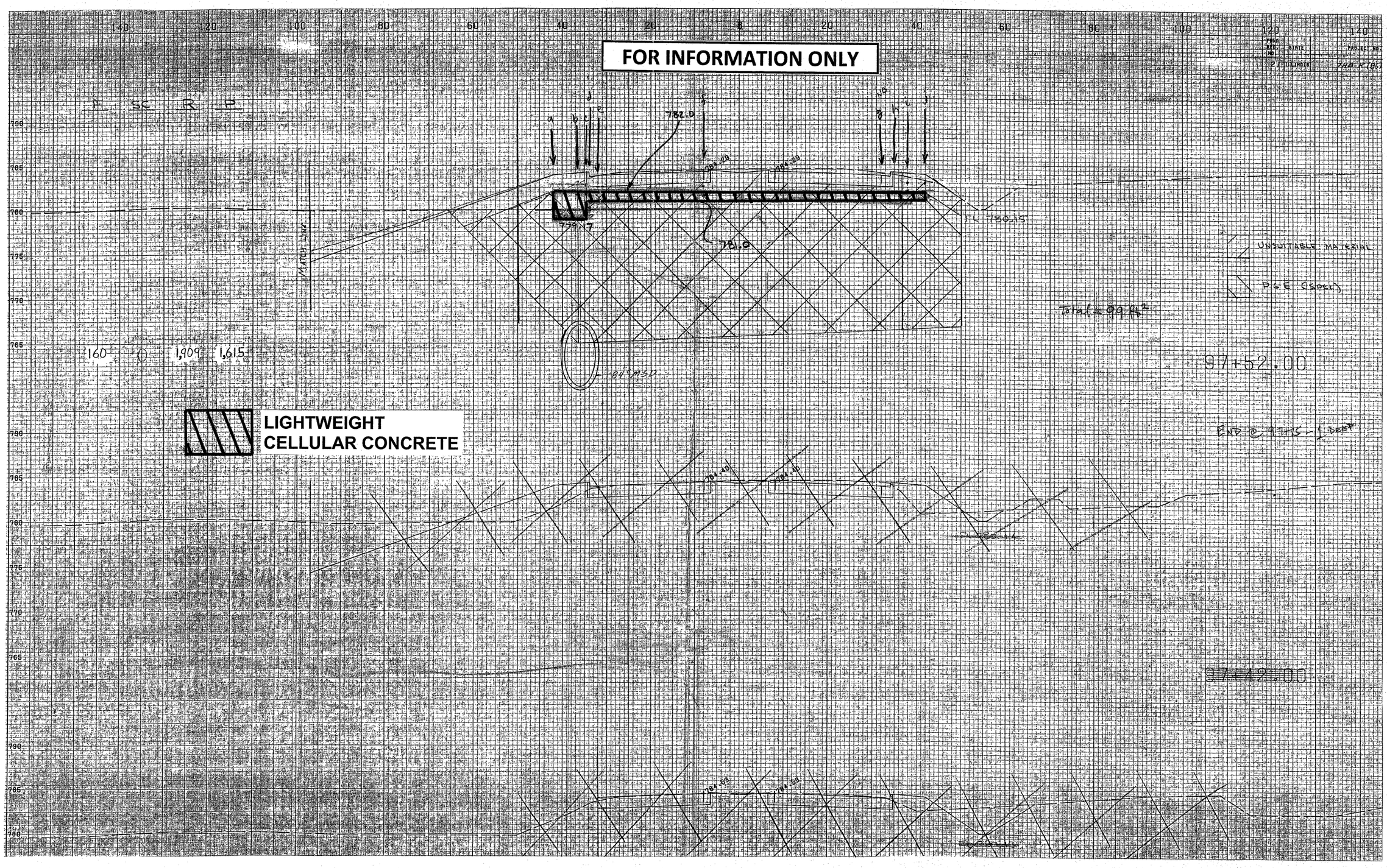
	PLOT SCALE = 50.0000 ' / IN.	DRAWN	REVISED -			338	7 HB-K-N	COOK	81	82E
	PLOT DATE = 3/11/2011	CHECKED -	REVISED -					CONTRACT NO. 60K62		
		DATE -	REVISED -		SCALE: N.T.S. SHEET NO. 2 OF 2 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

FOR INFORMATION ONLY



LIGHTWEIGHT CELLULAR CONCRETE

FILE NAME = c:\pw_work\pwidot\kellers\d0156262\P142399-Design.dgn	USER NAME = kellers	DESIGNED	REVISED - 3/16/11 SK
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	PLOT DATE = 3/11/2011	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 59 AND US ROUTE 20
LIGHTWEIGHT CELLULAR CONCRETE CROSS SECTIONS

SCALE: N.T.S. | SHEET NO. 2 OF 2 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	7 HB-K-N	COOK	82	82F
		CONTRACT NO. 60K62		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		