

NOTES:
 1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.

FILE NAME =
 #FILES#

GA GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 6035 N. NORTHWEST HIGHWAY
 SUITE 200
 CHICAGO, ILLINOIS 60630 TEL: 773/714-590

USER NAME = #USER#	DESIGNED - EA	REVISED -
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PLOT DATE = #DATE#	DATE - 10/09/2023	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

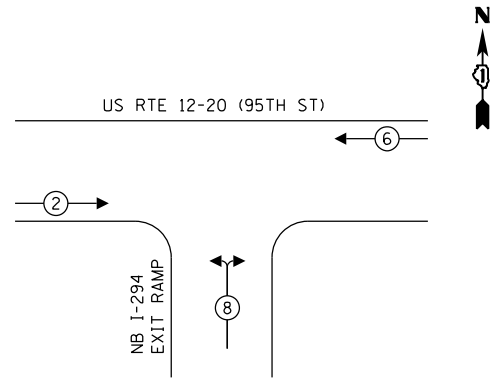
**TRAFFIC SIGNAL MODERNIZATION PLAN
 US RTE 12-20 (95TH ST) AT NB I-294 EXIT RAMP**

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

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 301
CONTRACT NO. 60R49				ILLINOIS FED. AID PROJECT

**TS 427
 ECON 59**

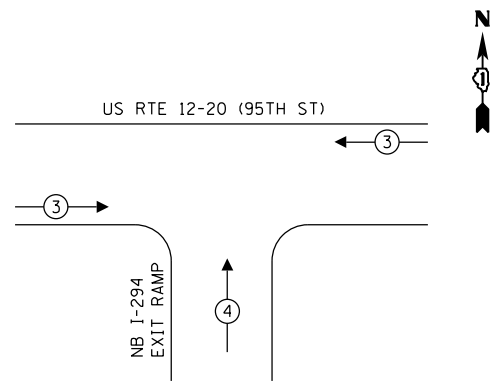
PROPOSED CONTROLLER SEQUENCE



LEGEND:

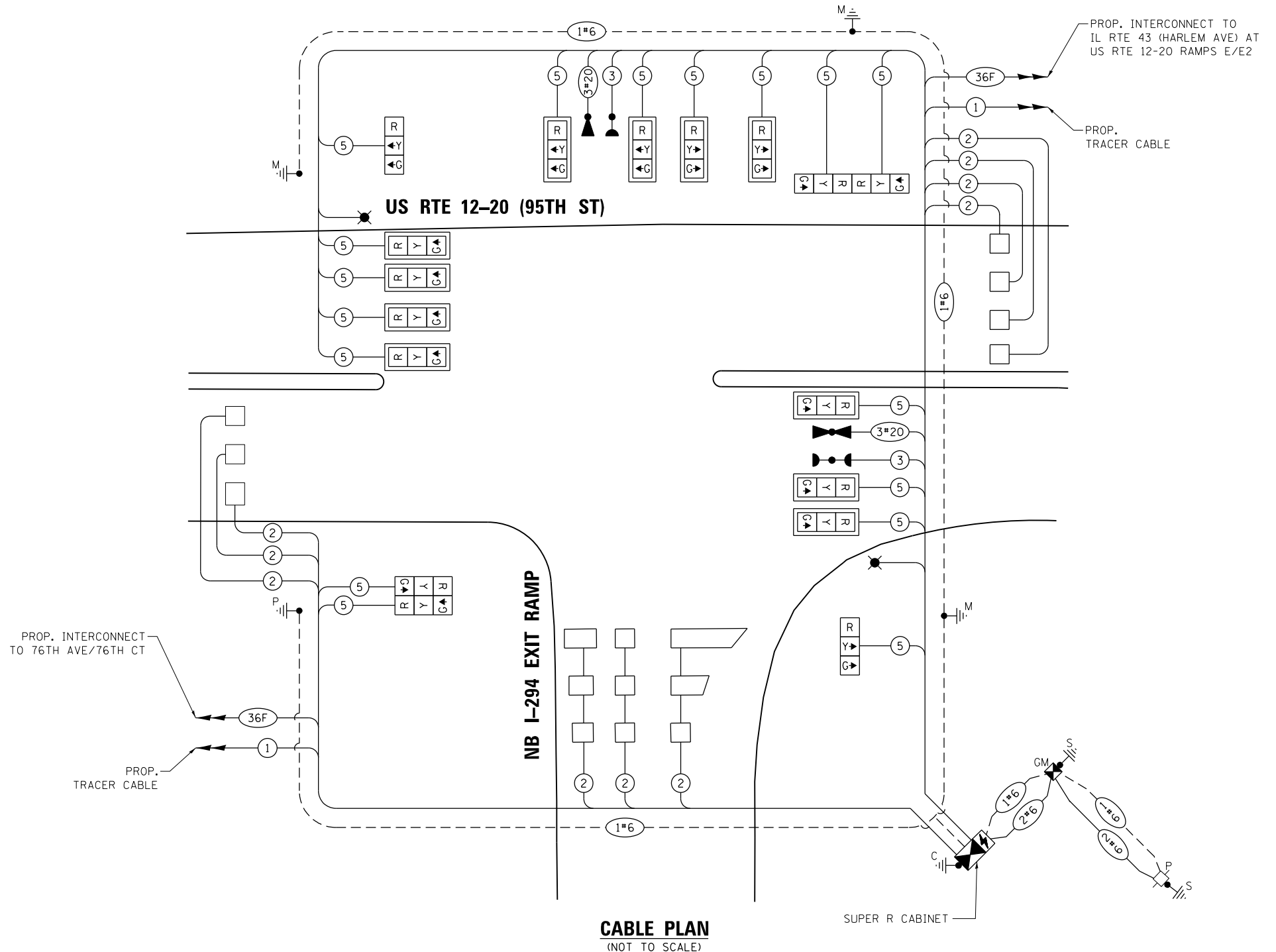
- ← ⊙ ← PROTECTED PHASE
- ← ⊙ ⊙ ← PROTECTED/PERMITTED PHASE
- ← ⊙ ⊙ → PEDESTRIAN PHASE
- ← ⊙ ⊙ → OL OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



NOTE:

1. ALL RED INDICATIONS SHALL HAVE A LENS COVER.



CABLE PLAN
(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	17	11	50	93.5
(YELLOW)	17	20	5	17.0
(GREEN)	17	12	45	91.8
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	-	20	100	-
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	2	175	50	175.0
TOTAL =				502.3

ENERGY COSTS TO:
ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER COURT
SCHAUMBURG, ILLINOIS 60196
ENERGY SUPPLY: CONTACT: CATHY BABICA
PHONE: (630) 985-4074
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: 46630-61134

DESIGNED - EA	REVISD -
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CHECKED - PKG, MS	REVISD -
DATE - 10/09/2023	REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABLE PLAN, PHASE DESIGNATION DIAGRAM,
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 12-20 (95TH ST) AT NB I-294 EXIT RAMP**

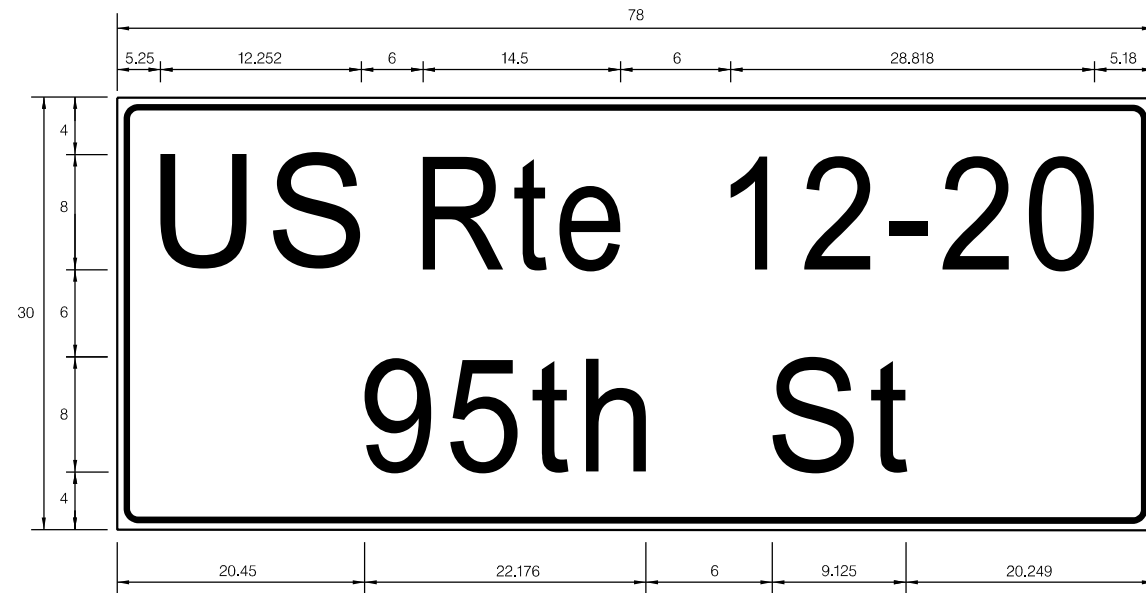
SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 302
CONTRACT NO. 60R49				ILLINOIS FED. AID PROJECT

**TS 427
ECON 59**

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	16.25	2	ZZ	1

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 2	SQ FT	16.25
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	429
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	50
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	484
HANDHOLE	EACH	2
DOUBLE HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	349
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3528
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	3187
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	103
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	675
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 54 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 44 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 46 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	43
DRILL EXISTING HANDHOLE	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	11
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	6
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	11
INDUCTIVE LOOP DETECTOR	EACH	10
DETECTOR LOOP, TYPE I	FOOT	645
* LIGHT DETECTOR	EACH	2
* LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	190
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	3
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	349
FULL-ACTUATED CONTROLLER AND TYPE SUPER R CABINET (SPECIAL)	EACH	1
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
LAYER II (DATALINK) SWITCH	EACH	1
TERMINATE FIBER IN CABINET	EACH	12
SPLICE FIBER IN CABINET	EACH	6
UNINTERRUPTABLE POWER SUPPLY, SPECIAL	EACH	1
LED SIGNAL FACE, LENS COVER	EACH	17
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
FIBER OPTIC INTERCONNECT CENTER, 24 PORT	EACH	1

* 100% COST TO THE VILLAGE OF BRIDGEVIEW

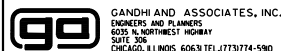
NOTE:

1. IDOT WILL PROVIDE CENTRACS LICENSE.

TS 427

ECON 59

FILE NAME =
\$FILEL\$



GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL: 773/774-590

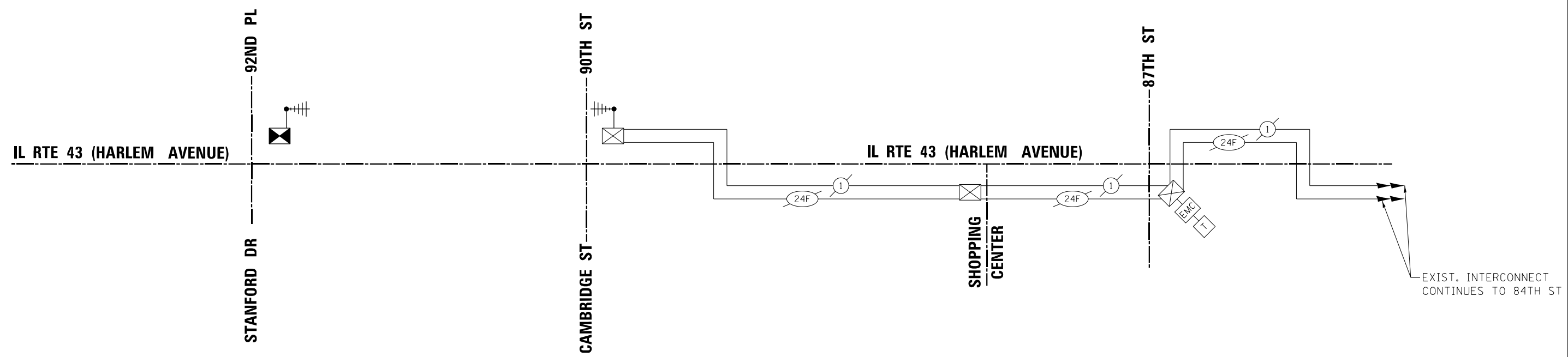
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PLOT DATE = \$DATE\$	DATE - 10/09/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAST ARM MOUNTED STREET NAME SIGNS
AND SCHEDULE OF QUANTITIES
US RTE 12-20 (95TH ST) AT NB I-294 EXIT RAMP

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

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 303
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60R49	



FILE NAME = K:\PROJECTS\Projects 2015\IL Route 43 over US 12-20\CADD_Sheets\DI60R49-sh-1\TS1.dgn

GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 5035 N. NORTHWEST HIGHWAY
 SUITE 204
 CHICAGO, ILLINOIS 60630 TEL: 773-774-590

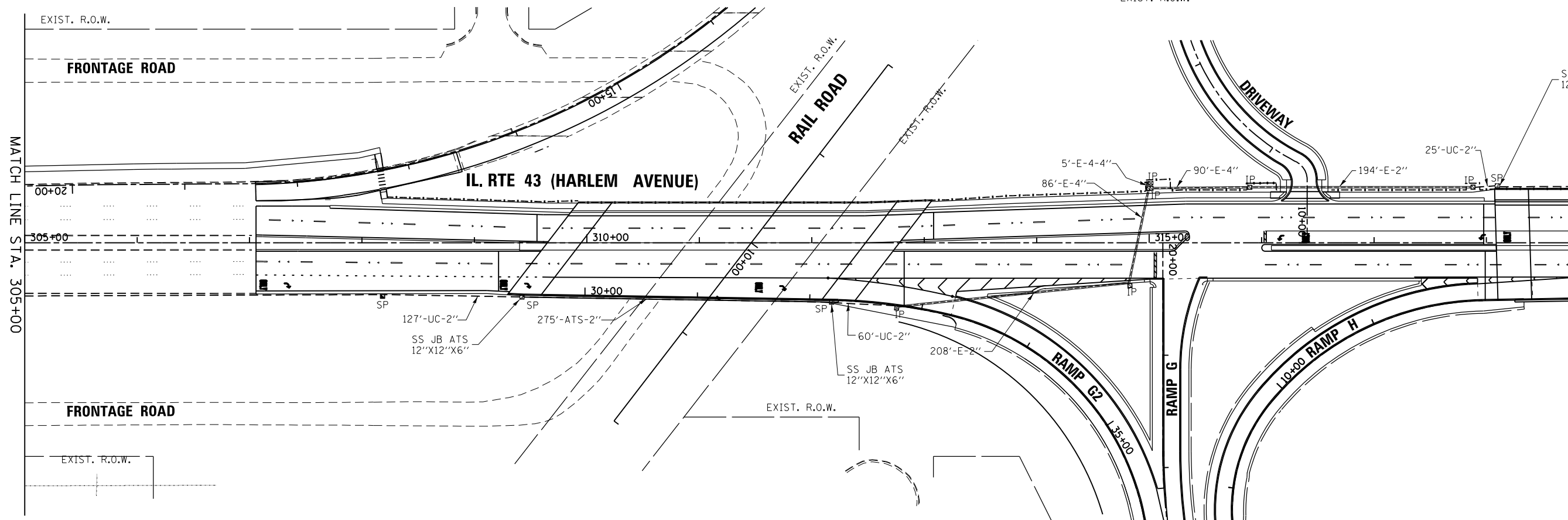
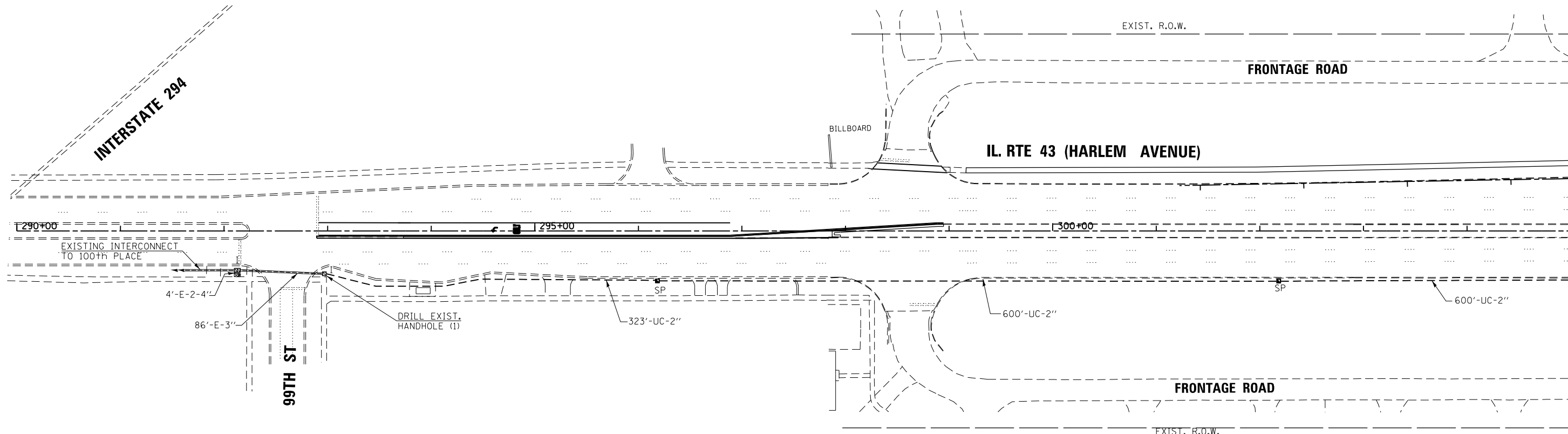
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PLOT DATE = 12/14/2023	DATE - 5/19/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY INTERCONNECT SCHEMATIC
IL RTE 43 (HARLEM AVENUE)
92ND PL/STANFORD DR TO 90TH ST/CAMBRIDGE ST
 SCALE: N.T.S. SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE. 29 & 34B	SECTION 3128-Z-1-R&S	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 304
CONTRACT NO. 60R49				ILLINOIS FED. AID PROJECT

ECON 61



FILE NAME =
#FILES#



USER NAME = #USER#	DESIGNED - EA	REVISED -
DRAWN - AV, EA	REVISOR -	
CHECKED - PKG, MS	REVISOR -	
DATE - 5/19/2023	REVISOR -	

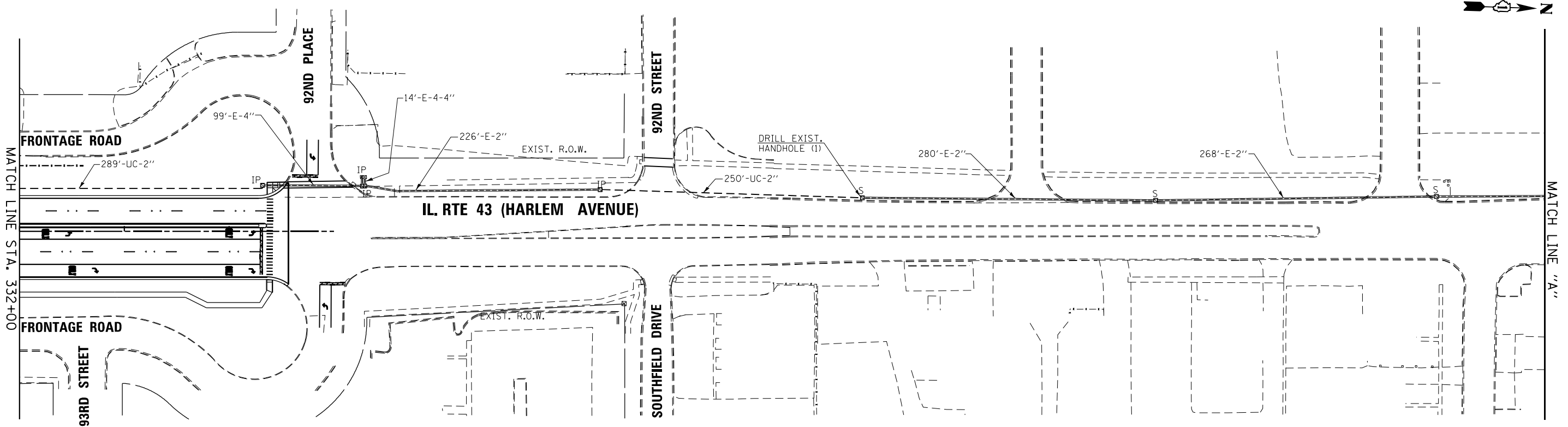
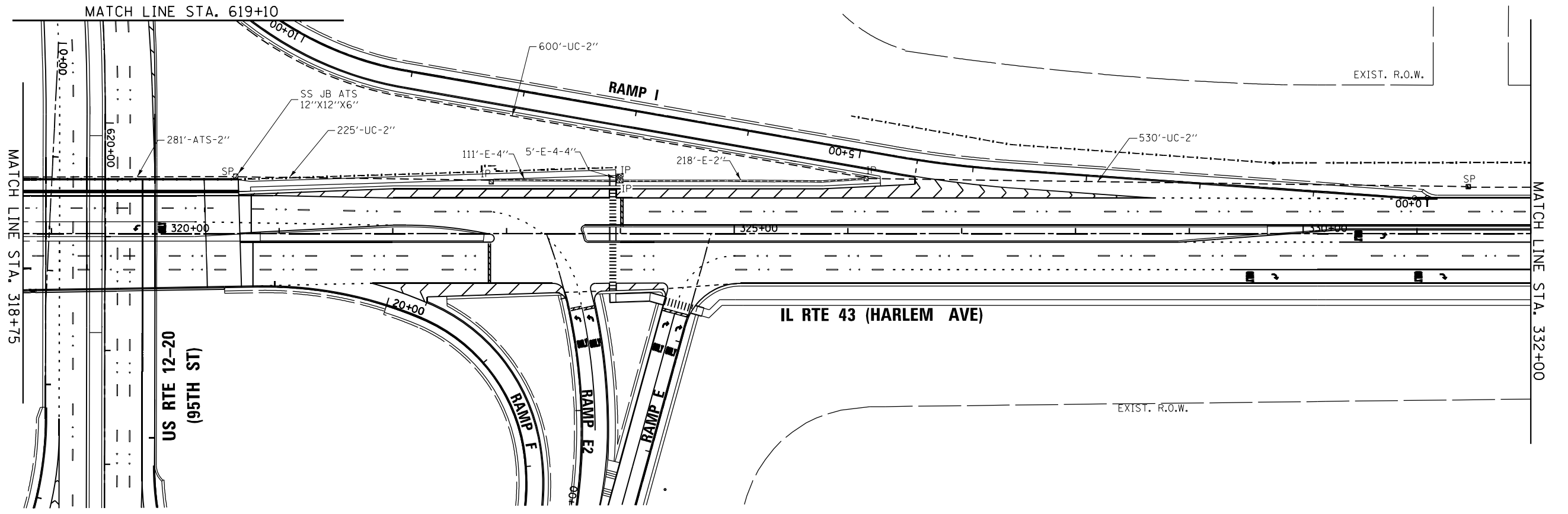
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN (SHEET 1 OF 3)
IL RTE 43 (HARLEM AVENUE) -
99TH STREET TO 99TH STREET

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

F.A.P. RTE. 29 & 348	SECTION 3128-Z-1-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 305
CONTRACT NO. 60R49				ILLINOIS FED. AID PROJECT

ECON 66 &
IDOT CENTRACS
FORMER ECON 61



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DATE - 5/19/2023	REVISED -	

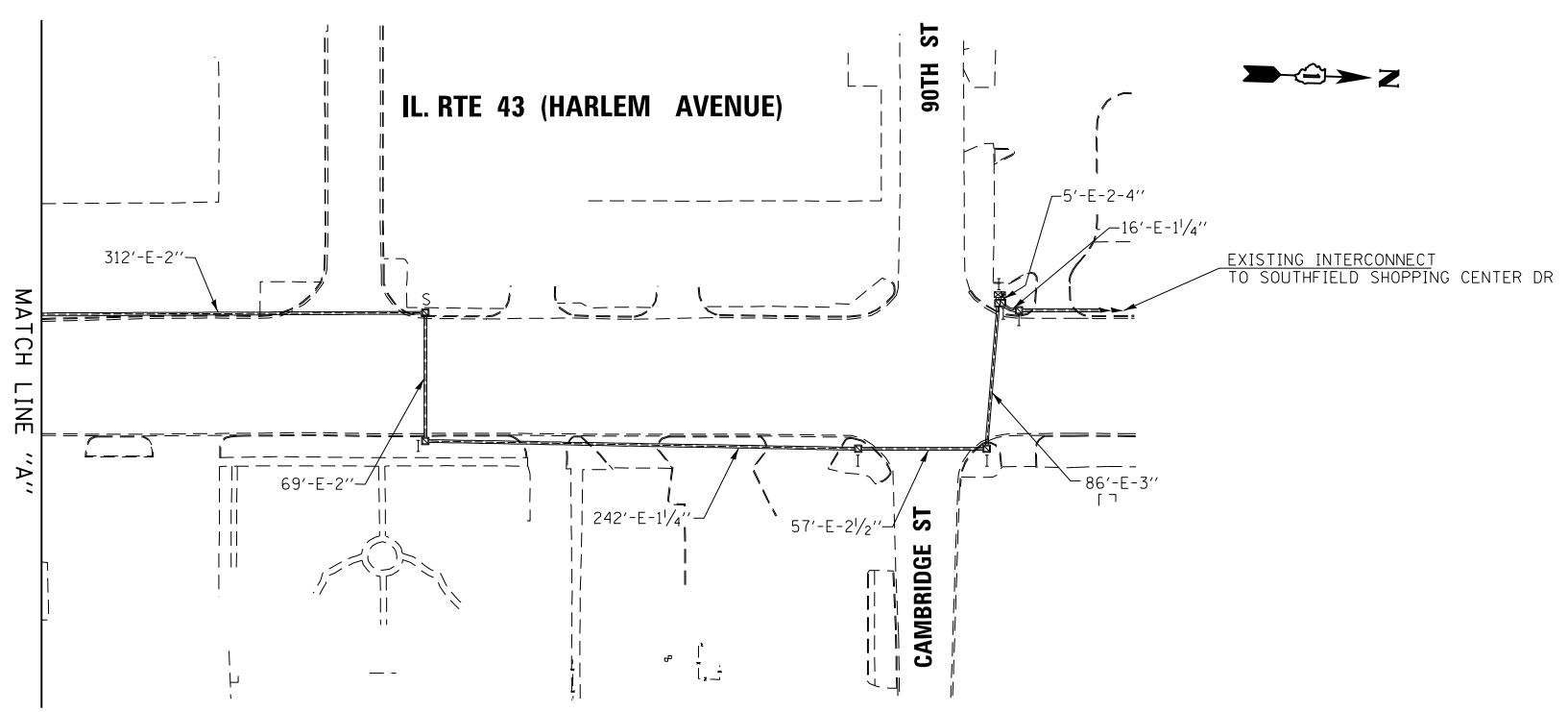
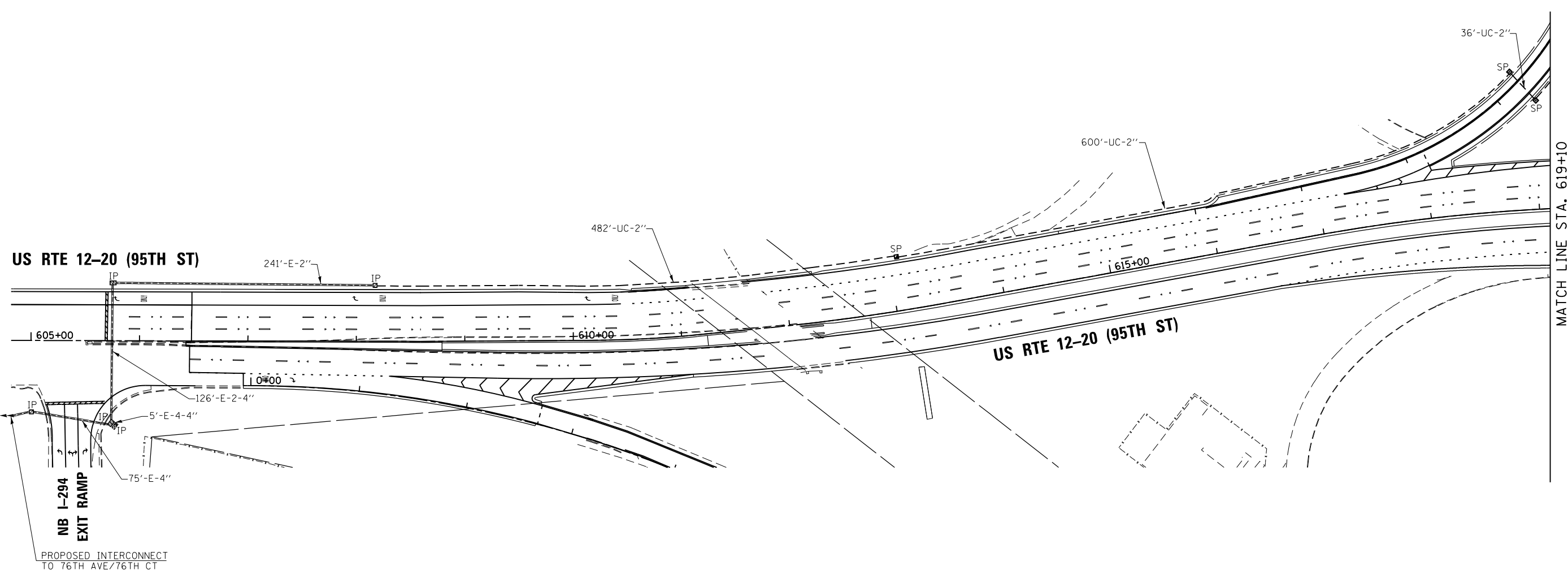
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN (SHEET 2 OF 3)
IL RTE 43 (HARLEM AVENUE) -
99TH STREET TO 90TH STREET

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

F.A.P. RTE. 29 & 348	SECTION 3128-Z-1-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 306
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				

IDOT CENTRACS
FORMER ECON 61



FILE NAME =
#FILES#

GA GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5035 N. NORTHWEST HIGHWAY
SUITE 200
CHICAGO, ILLINOIS 60630 TEL: 773/774-590

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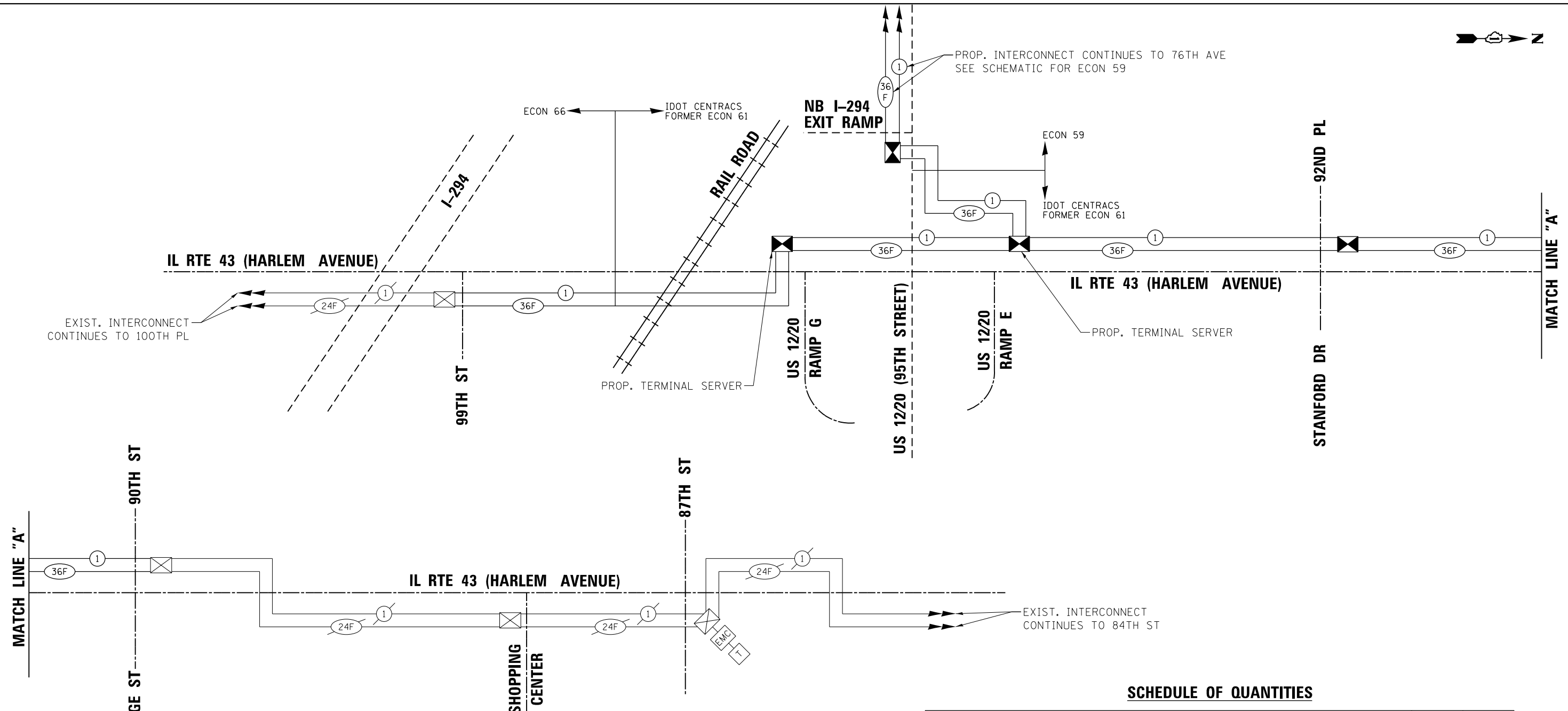
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT PLAN (SHEET 3 OF 3)
IL RTE 43 (HARLEM AVENUE) -
99TH STREET TO 90TH STREET**

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

F.A.P. RTE. 29 & 348	SECTION 3128-Z-1-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 307
CONTRACT NO. 60R49				ILLINOIS FED. AID PROJECT

**ECON 59 &
IDOT CENTRACS
FORMER ECON 61**



- NOTES:**
1. THE SCAT CONSULTANT WILL DETERMINE THE LOCATION OF THE SYSTEM DETECTORS.
 2. OPTIMIZATION SHALL BE COORDINATED WITH IDOT CONTRACT 62P50.

SCHEDULE OF QUANTITIES

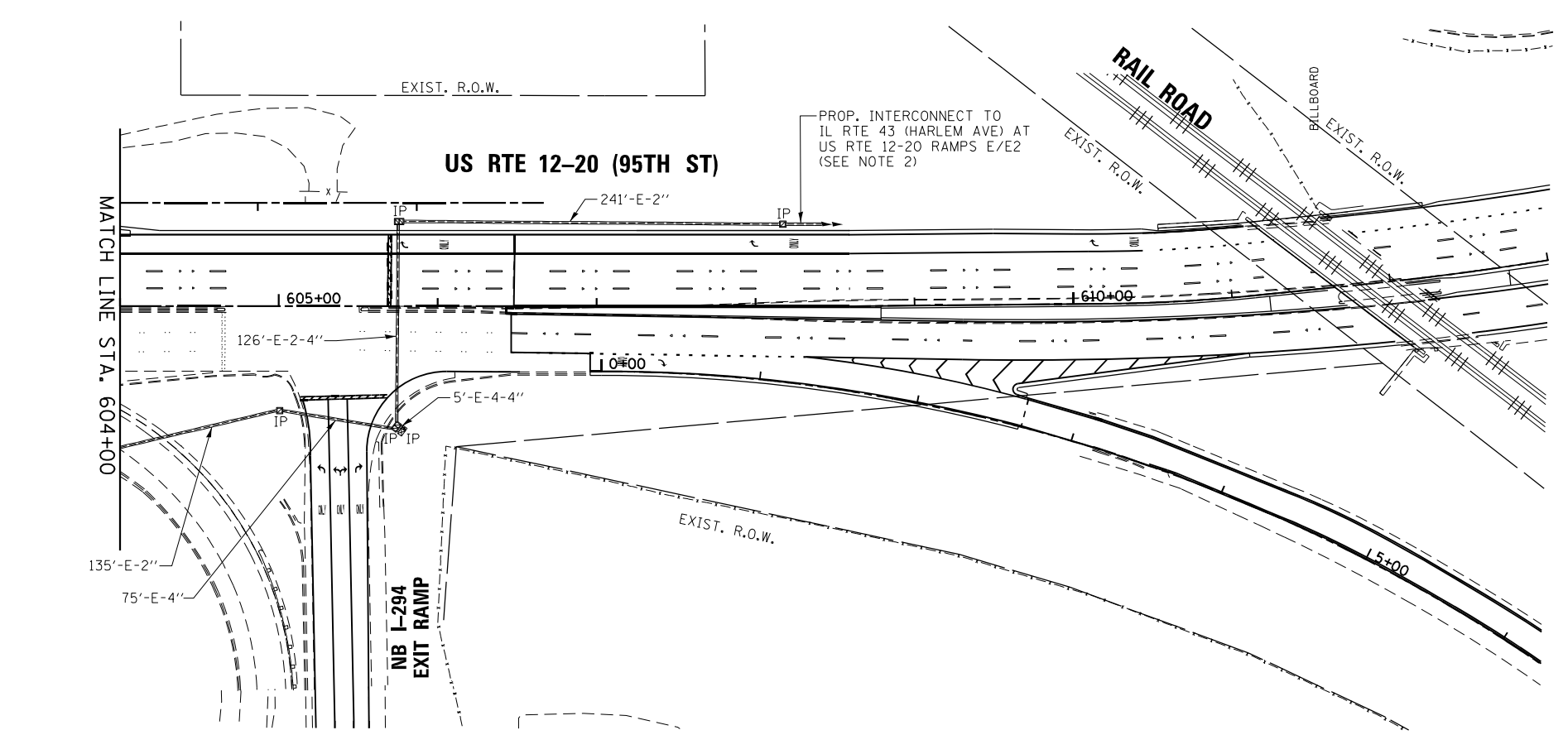
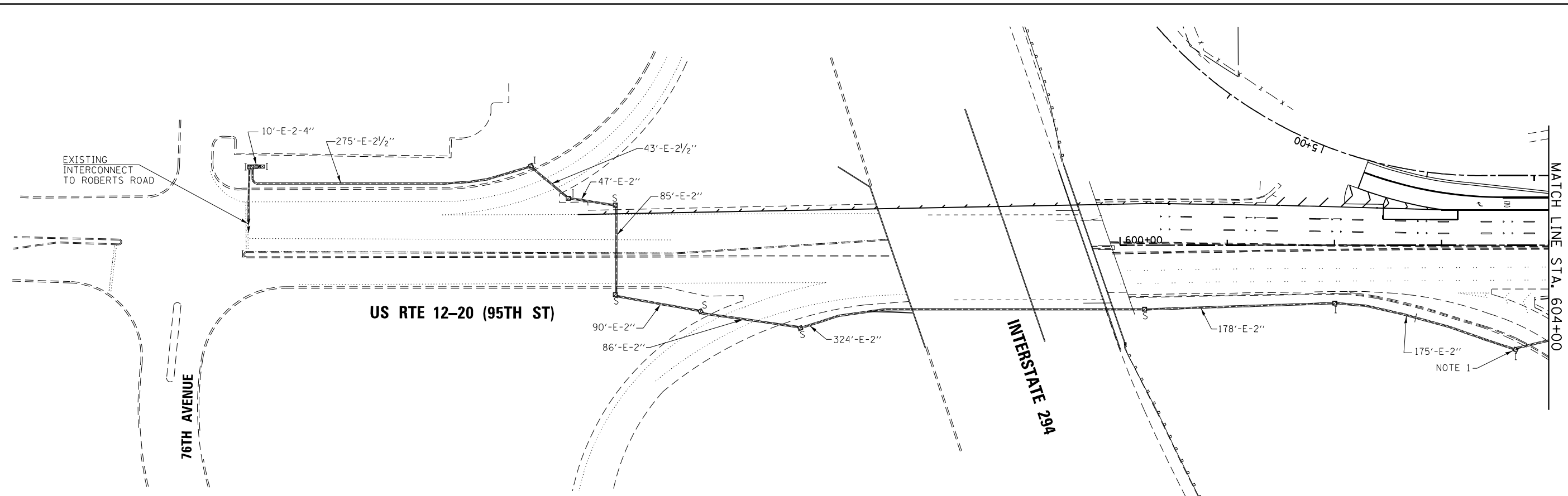
ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	4747
CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	556
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18"X18"X8"	EACH	4
HANDHOLE	EACH	5
HEAVY-DUTY HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	8640
DRILL EXISTING HANDHOLE	EACH	2
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2800
* ROD AND CLEAN EXISTING CONDUIT	FOOT	940
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	8950
OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	2

* NOMINAL QUANTITY TO BE USED AS NEEDED AND AS APPROVED BY THE ENGINEER

OPTIMIZE TRAFFIC SIGNAL SYSTEM

ECON 61	ECON 66
IL RTE 43 (HARLEM AVE) AT US RTE 12-20 (95TH ST) EB RAMP G	IL RTE 43 (HARLEM AVE) AT 135TH ST
IL RTE 43 (HARLEM AVE) AT US RTE 12-20 (95TH ST) EB RAMP E/E2	IL RTE 43 (HARLEM AVE) AT 131ST ST
IL RTE 43 (HARLEM AVE) AT 92ND ST/STANFORD DR	IL RTE 43 (HARLEM AVE) AT ISHNALA DR
IL RTE 43 (HARLEM AVE) AT 90TH ST/CAMBRIDGE ST	IL RTE 43 (HARLEM AVE) AT 127TH ST
IL RTE 43 (HARLEM AVE) AT SOUTHFIELD SC/88TH ST	IL RTE 43 (HARLEM AVE) AT 123RD ST
IL RTE 43 (HARLEM AVE) AT 87TH ST	IL RTE 43 (HARLEM AVE) AT IL RTE 83 (119TH ST)
IL RTE 43 (HARLEM AVE) AT 84TH ST	IL RTE 43 (HARLEM AVE) AT 115TH ST
IL RTE 43 (HARLEM AVE) AT 83RD ST	IL RTE 43 (HARLEM AVE) AT 111TH ST
IL RTE 43 (HARLEM AVE) AT 79TH ST	IL RTE 43 (HARLEM AVE) AT IL RTE 7 (SOUTHWEST HWY)
IL RTE 43 (HARLEM AVE) AT 77TH ST	IL RTE 43 (HARLEM AVE) AT 103RD ST
IL RTE 43 (HARLEM AVE) AT 75TH ST	IL RTE 43 (HARLEM AVE) AT 100TH PL
IL RTE 43 (HARLEM AVE) AT 71ST ST	IL RTE 43 (HARLEM AVE) AT 99TH ST

**ECON 59 &
ECON 66 &
IDOT CENTRACS
FORMER ECON 61**



NOTES:

1. REMOVE EXISTING TRACER AND FIBER OPTIC CABLES BETWEEN THE EXISTING HANDHOLE AROUND STATION 603+80 AND THE EXISTING TRAFFIC SIGNAL CONTROLLER CABINET AT 76TH AVENUE AND 95TH STREET. THIS WORK WILL BE PAID FOR AS "REMOVE ELECTRIC CABLE FROM CONDUIT".
2. THE CONDUITS, CABLES, AND HANDHOLES FOR FIBER OPTIC INTERCONNECT BETWEEN US RTE 12-20 (95TH ST) AT NB I-294 EXIT RAMP AND IL RTE 43 (HARLEM AVE) AT RAMP E/E2 ARE SHOWN ON THE INTERCONNECT PLANS FOR IL RTE 43 (HARLEM AVE).

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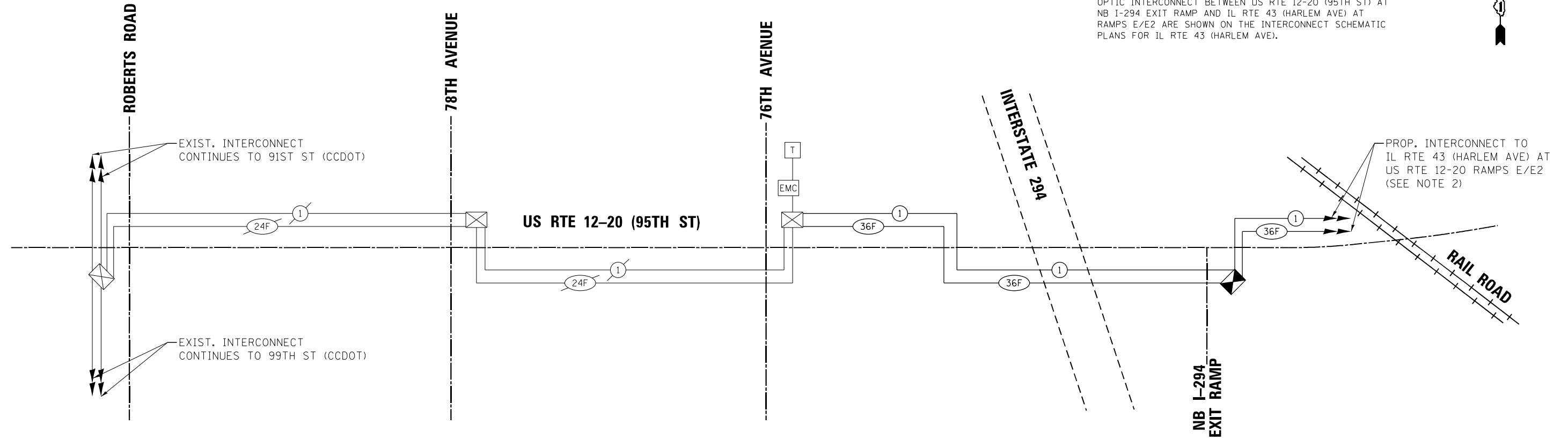
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED INTERCONNECT PLAN			
US RTE 12-20 (95TH ST)			
76TH AVE TO NB-I-294 EXIT RAMP			
SCALE: 1"=50'	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&S	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 309
CONTRACT NO. 60R49				ECON 59
ILLINOIS FED. AID PROJECT				

NOTES:

1. THE SCAT CONSULTANT WILL DETERMINE THE LOCATION OF THE SYSTEM DETECTORS.
2. THE TRACER CABLE AND FIBER OPTIC CABLE FOR FIBER OPTIC INTERCONNECT BETWEEN US RTE 12-20 (95TH ST) AT NB I-294 EXIT RAMP AND IL RTE 43 (HARLEM AVE) AT RAMP E/E2 ARE SHOWN ON THE INTERCONNECT SCHEMATIC PLANS FOR IL RTE 43 (HARLEM AVE).



OPTIMIZE TRAFFIC SIGNAL SYSTEM

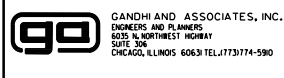
ECON 59

- US RTE 12-20 (95TH ST) AT ROBERTS RD
- US RTE 12-20 (95TH ST) AT 78TH AVE
- US RTE 12-20 (95TH ST) AT 76TH AVE
- US RTE 12-20 (95TH ST) AT I-294 B RAMP
- ROBERTS RD AT 107TH ST (CCDOH)
- ROBERTS RD AT 103RD ST (CCDOH)
- ROBERTS RD AT 99TH ST (CCDOH)
- ROBERTS RD AT 91ST ST (CCDOH)
- ROBERTS RD AT 87TH ST (CCDOH)

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	1678
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	2879
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	1678
OPTIMIZE TRAFFIC SIGNAL SYSTEM	EACH	1

FILE NAME = K:\PROJECTS\Projects 2015\IL Route 43 over US 12-20\CADD_Sheets\I60R49-ent-1537.dgn



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	DATE - 5/19/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED INTERCONNECT SCHEMATIC AND SCHEDULE OF QUANTITIES
US RTE 12-20 (95TH ST)
ROBERTS ROAD TO NB I-294 EXIT RAMP**

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

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 310
CONTRACT NO. 60R49				ILLINOIS FED. AID PROJECT

ECON 59

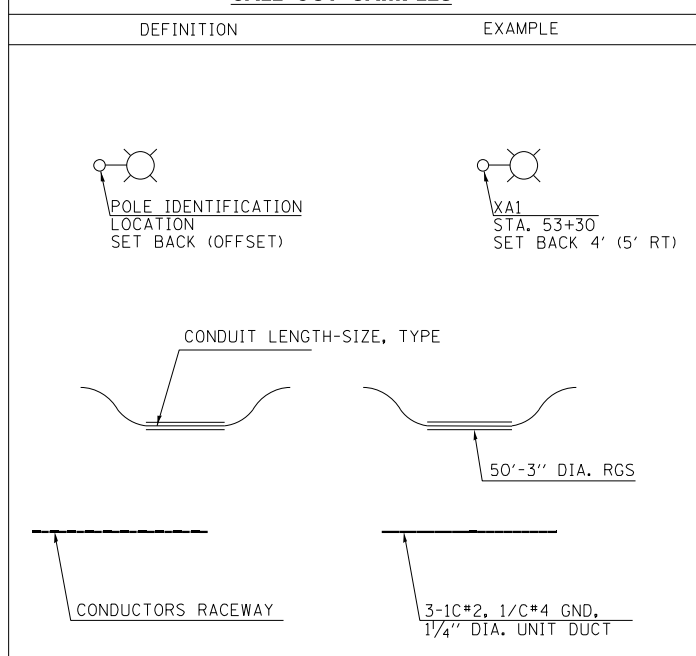
LIGHTING INDEX OF SHEETS

LT-1	LIGHTING INDEX, LEGEND, AND GENERAL NOTES
LT-2	LIGHTING SCHEDULE OF QUANTITIES
LT-3 - LT-8	EXISTING LIGHTING
LT-9 - LT-14	TEMPORARY LIGHTING, PRE-STAGE A
LT-15 - LT-20	TEMPORARY LIGHTING, PRE-STAGE B
LT-21 - LT-26	TEMPORARY LIGHTING, PRE-STAGE C
LT-27 - LT-32	TEMPORARY LIGHTING, STAGE 1
LT-33 - LT-38	TEMPORARY LIGHTING, STAGE 2
LT-39 - LT-44	TEMPORARY LIGHTING, STAGE 3
LT-45 - LT-50	TEMPORARY LIGHTING, STAGE 4
LT-51 - LT-56	TEMPORARY LIGHTING, STAGE 5
LT-57 - LT-62	PROPOSED LIGHTING
LT-63	PROPOSED LIGHTING, FRONTAGE ROAD
LT-64 - LT-67	UNDERPASS LIGHTING
LT-68 - LT-69	SINGLE LINE WIRING DIAGRAMS
LT-70 - LT-72	COMBINATION LIGHTING
LT-73 - LT-95	LIGHTING DETAILS

LEGEND

	EXISTING LIGHT POLE
	EXISTING ILLINOIS TOLLWAY LIGHT POLE
	EXISTING LIGHT POLE TO BE REMOVED
	TEMPORARY LIGHT POLE, 50' MH, 15' MA, LED LUMINAIRE, OUTPUT DESIGNATION H, 240V (PHASE TO NEUTRAL)
	EXISTING ITEM TO BE REMOVED
	PROPOSED LIGHT POLE, 47.5' MH, 15' MA (UNLESS CALLED OUT OTHERWISE), LED LUMINAIRE, OUTPUT DESIGNATION H, 240V (PHASE TO NEUTRAL) WITH METAL FOUNDATION AND TRANSFORMER BASE
	PROPOSED LIGHT POLE, 30' MH, 15' MA (UNLESS CALLED OUT OTHERWISE), LED LUMINAIRE, OUTPUT DESIGNATION E, 120V (PHASE TO NEUTRAL) WITH METAL FOUNDATION AND TRANSFORMER BASE
	PROPOSED COMBINATION LIGHT POLE, 45' MH, 15' MA, LED LUMINAIRE, OUTPUT DESIGNATION H, 120V
	RELOCATED ILLINOIS TOLLWAY LIGHT POLE, 50' MH, 15' MA, EXISTING LED LUMINAIRE, 480V
	EXISTING UNDERPASS LUMINAIRE TO BE REMOVED
	PROPOSED UNDERPASS LUMINAIRE
	EXISTING LIGHTING CONTROLLER TO BE REMOVED
	TEMPORARY POLE-MOUNTED LIGHTING CONTROLLER
	PROPOSED LIGHTING CONTROLLER
	PROPOSED TRAFFIC SIGNAL & COMBINATION LIGHTING CONTROLLER
	EXISTING JUNCTION BOX
	PROPOSED JUNCTION BOX, AS SPECIFIED IN THE PLAN
	EXISTING HANDHOLE
	EXISTING ELECTRIC SERVICE POLE
	TEMPORARY WOODEN POLE, 40', CLASS 4
	UNDERGROUND CONDUITS, SIZE AS INDICATED WITH CABLES AS APPLICABLE
	LIGHTING CABLE IN UNDERGROUND DUCT (EXISTING WHEN NOT TAGGED OTHERWISE)
	LIGHTING CABLE IN CONDUIT (EXISTING WHEN NOT TAGGED OTHERWISE)
	AERIAL CABLE (EXISTING WHEN NOT TAGGED OTHERWISE)

CALL-OUT SAMPLES



CABLE AND CONDUIT TAGS

- ① UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
- ② UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.
- ③ UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
- ④ CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL
- ⑤ CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL
- ⑥ CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL
- ⑦ CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC
- A UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE, PERMANENT
- B UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE, TEMPORARY
- C ELECTRICAL CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO.10, 1/C NO.10 GROUND
- D ELECTRICAL CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO.2, 1/C NO.4 GROUND
- E ELECTRICAL CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C 350MCM
- F AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE
- G UNIT DUCT, 600V, 3-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE, PERMANENT
- H ELECTRICAL CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO.2

ABBREVIATIONS

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

LIGHTING GENERAL NOTES

- THE SCALE SHOWN ON PLAN DRAWINGS APPLIES ONLY TO THE FULL SIZE PLANS AND NOT TO REDUCED SIZE PLANS.
- SET BACK DISTANCES FOR LIGHT POLES ARE MEASURED FROM THE EDGE OF TRAVELED PAVEMENT (AS LOCATED IN THE STAGE SHOWN) TO THE CENTER OF POLE. OFFSETS MEASURED FROM THE NEAREST ALIGNMENT LINE TO THE CENTER OF THE POLE ARE ADDITIONALLY PROVIDED.
- ELECTRIC SERVICE TO THE EXISTING LIGHTING CONTROLLER IS PROVIDED UNDER ACCOUNT NUMBER 03566-66003 AND METER NUMBER 230-088-518. COMMONWEALTH EDISON REPRESENTATIVE: CATHY BABICA, PHONE (630) 985-4074, EMAIL <Cathy.Babica@COMED.COM>.
- CONTRACTOR SHALL SALVAGE LIGHT POLES, MAST ARMS, BREAKAWAY BASES, ALUMINUM SKIRTS, FIBERGLASS SHROUDS, AND HPS LUMINAIRES TO THE DISTRICT 1 DEPARTMENT OF TRANSPORTATION. CONTRACTOR SHALL COORDINATE WITH ENGINEER WHEN AND WHERE TO DELIVER THE EQUIPMENT.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LIGHTING INDEX, LEGEND,
AND GENERAL NOTES**

SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&S	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 311
CONTRACT NO. 60R49				ILLINOIS FED. AID PROJECT

ITEM	UNIT	TOTAL QUANTITY
ELECTRIC SERVICE INSTALLATION	EACH	3
ELECTRIC UTILITY SERVICE CONNECTION	L SUM	3
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	23
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	46
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	2234
CONDUIT ATTACHED TO STRUCTURE, 1" DIA., PVC COATED GALVANIZED STEEL	FOOT	1084
CONDUIT ATTACHED TO STRUCTURE, 2" DIA., PVC COATED GALVANIZED STEEL	FOOT	120
CONDUIT ATTACHED TO STRUCTURE, 3" DIA., PVC COATED GALVANIZED STEEL	FOOT	46
CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	984
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 6" X 6" X 4"	EACH	26
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 10" X 6"	EACH	4
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 12" X 12" X 6"	EACH	8
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 18" X 18" X 8"	EACH	3
UNIT DUCT, 600V, 3-1C NO.6, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	1272
UNIT DUCT, 600V, 3-1C NO.2, 1/C NO.4 GROUND, (XLP-TYPE USE), 1 1/2" DIA. POLYETHYLENE	FOOT	31929
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 10	FOOT	6249
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	FOOT	984
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 2	FOOT	3021
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C 350MCM	FOOT	462
AERIAL CABLE, 3-1/C NO. 3/0 WITH MESSENGER WIRE	FOOT	155
AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE	FOOT	8235
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION E	EACH	8
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	104
LUMINAIRE, LED, UNDERPASS, WALLMOUNT, OUTPUT DESIGNATION C	EACH	28
LUMINAIRE, LED, UNDERPASS, SUSPENDED, OUTPUT DESIGNATION C	EACH	28
LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 100AMP	EACH	1
LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 200AMP (DUAL)	EACH	1
LIGHT POLE, ALUMINUM, 30 FT. M.H., 15 FT. MAST ARM	EACH	8
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 6 FT. MAST ARM	EACH	7

ITEM	UNIT	TOTAL QUANTITY
LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM	EACH	84
LIGHT POLE FOUNDATION, METAL, 11 1/2" BOLT CIRCLE, 8 5/8" X 6'	EACH	8
LIGHT POLE FOUNDATION, METAL, 15" BOLT CIRCLE, 10" X 8'	EACH	84
BREAKAWAY DEVICE, TRANSFORMER BASE, 11.5 INCH BOLT CIRCLE	EACH	8
BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE	EACH	84
REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	98
REMOVAL OF POLE FOUNDATION	EACH	96
RELOCATE EXISTING LIGHTING UNIT	EACH	2
REMOVAL OF LIGHTING CONTROLLER	EACH	1
REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	21160
REPLACE EXISTING DECAL WITH NEW LUMINAIRE NUMBERING DECAL	EACH	7
TEMPORARY WOOD POLE, 60 FT., CLASS 4, 15 FT. MAST ARM	EACH	69
TEMPORARY WOOD POLE, 40 FT., CLASS 4	EACH	5
HELIX FOUNDATION AND BREAKAWAY DEVICE	EACH	2
JUNCTION BOX REMOVED	EACH	28
TEMPORARY LIGHTING CONTROLLER	EACH	1
TEMPORARY LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	69
COMBINATION LIGHTING CONTROLLER	EACH	3
REMOVAL OF UNDERPASS LIGHTING UNIT, NO SALVAGE	EACH	62
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	112
MAINTENANCE OF LIGHTING SYSTEM	CAL MO	48

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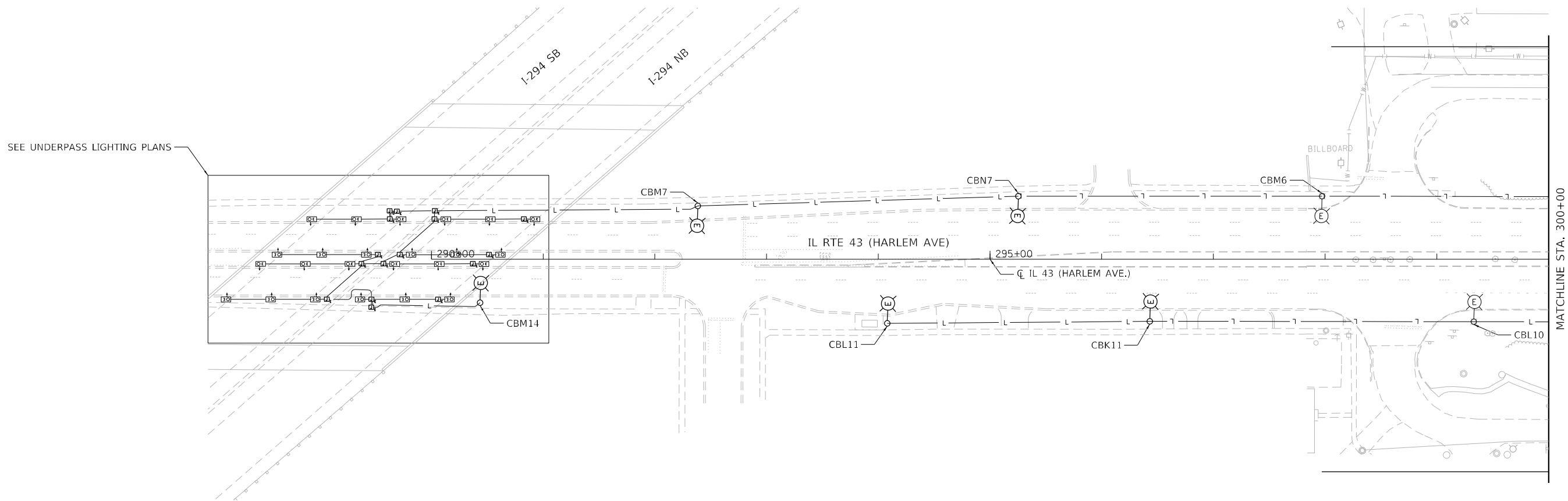


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LIGHTING SCHEDULE OF QUANTITIES			
SHEET	OF	SHEETS	STA. TO STA.

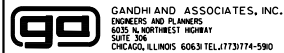
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CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



NO LIGHTING WORK THIS SHEET



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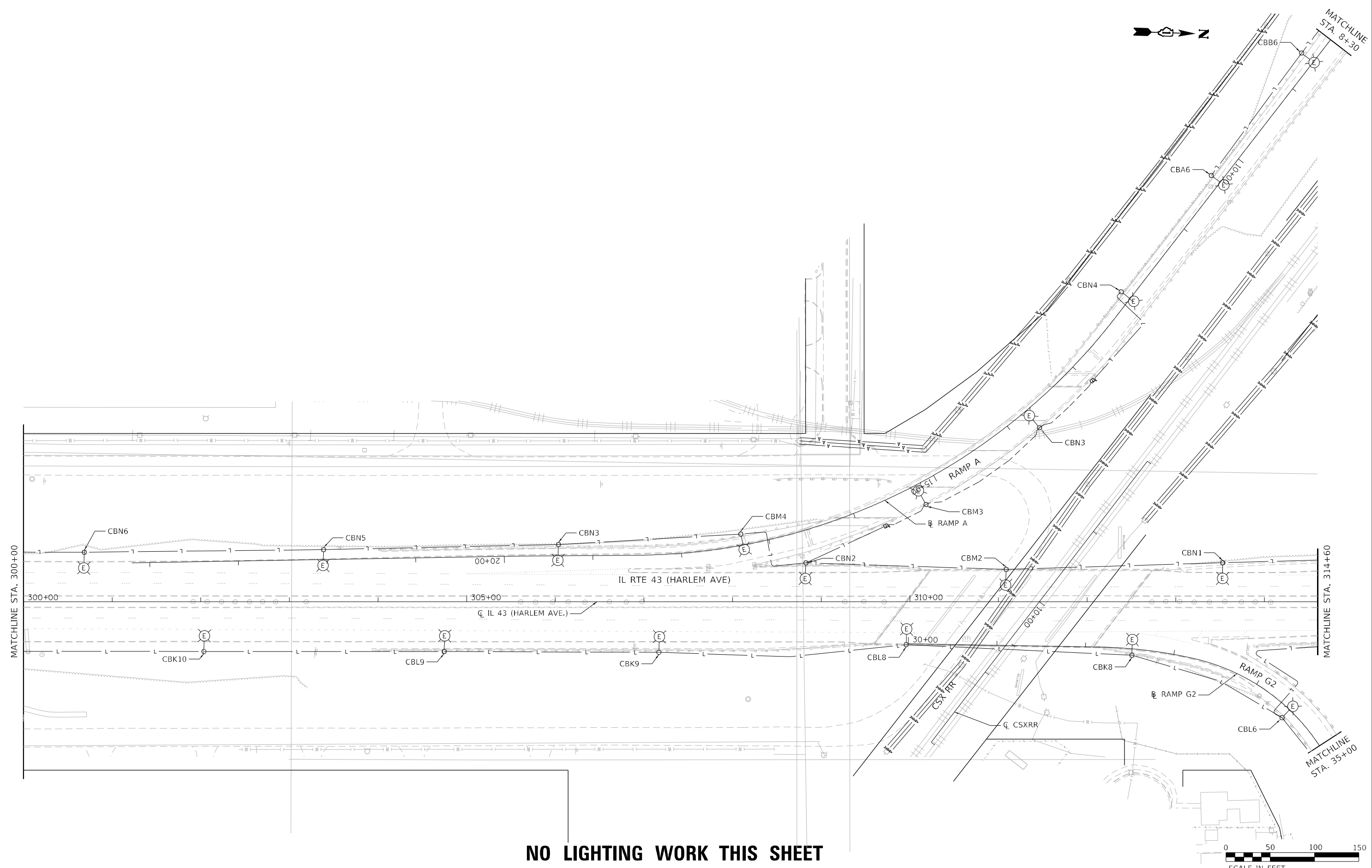
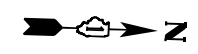
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

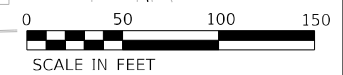
EXISTING LIGHTING

SCALE: 1"=50' SHEET 1 OF 6 SHEETS STA. 290+00 TO STA. 300+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	313
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



NO LIGHTING WORK THIS SHEET



MODEL: Default
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

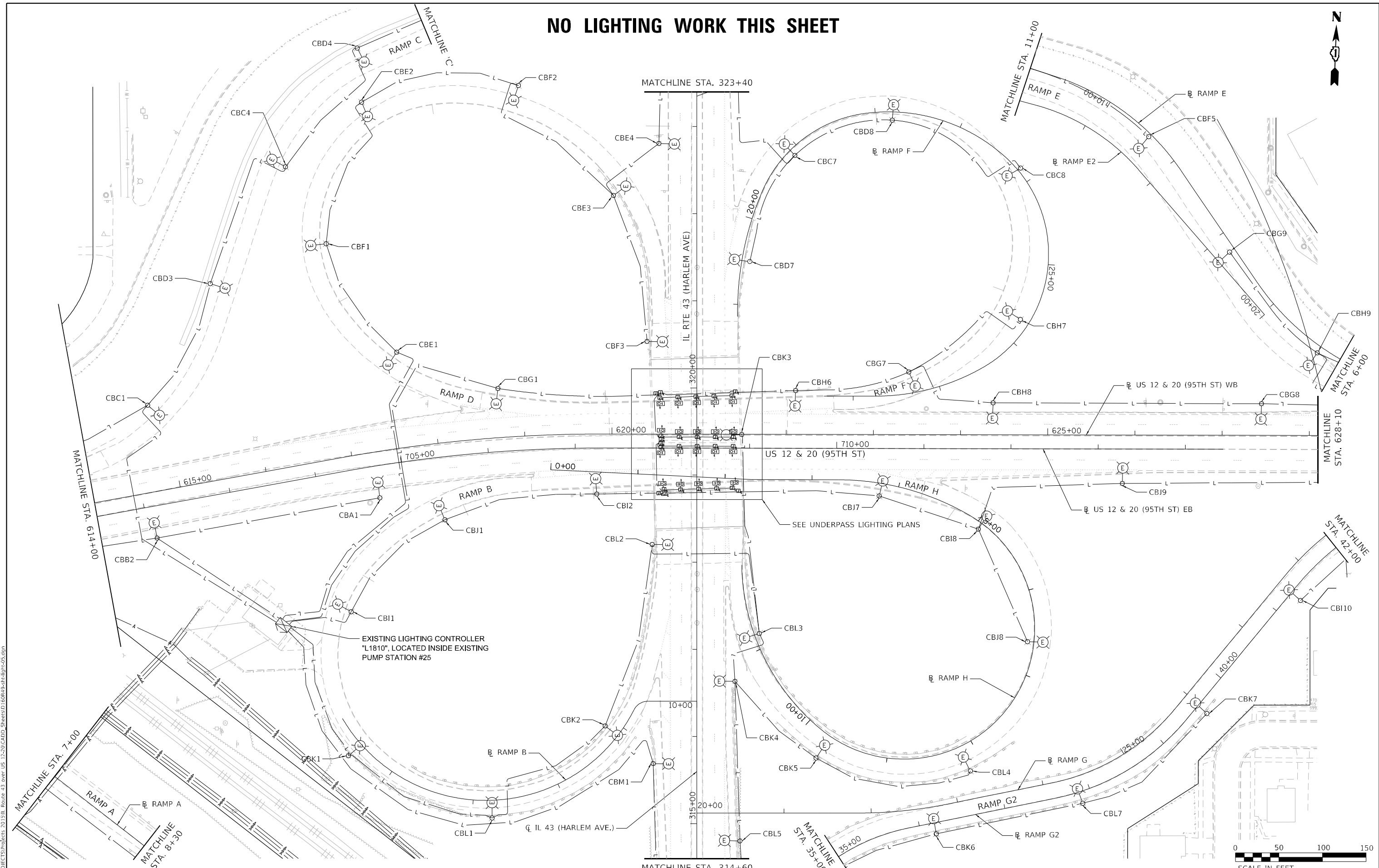
EXISTING LIGHTING

SCALE: 1"=50' SHEET 2 OF 6 SHEETS STA. 300+00 TO STA. 314+60

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	314
CONTRACT NO. 60R49				

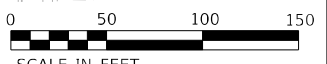
ILLINOIS FED. AID PROJECT

NO LIGHTING WORK THIS SHEET



EXISTING LIGHTING CONTROLLER "L1810", LOCATED INSIDE EXISTING PUMP STATION #25

SEE UNDERPASS LIGHTING PLANS



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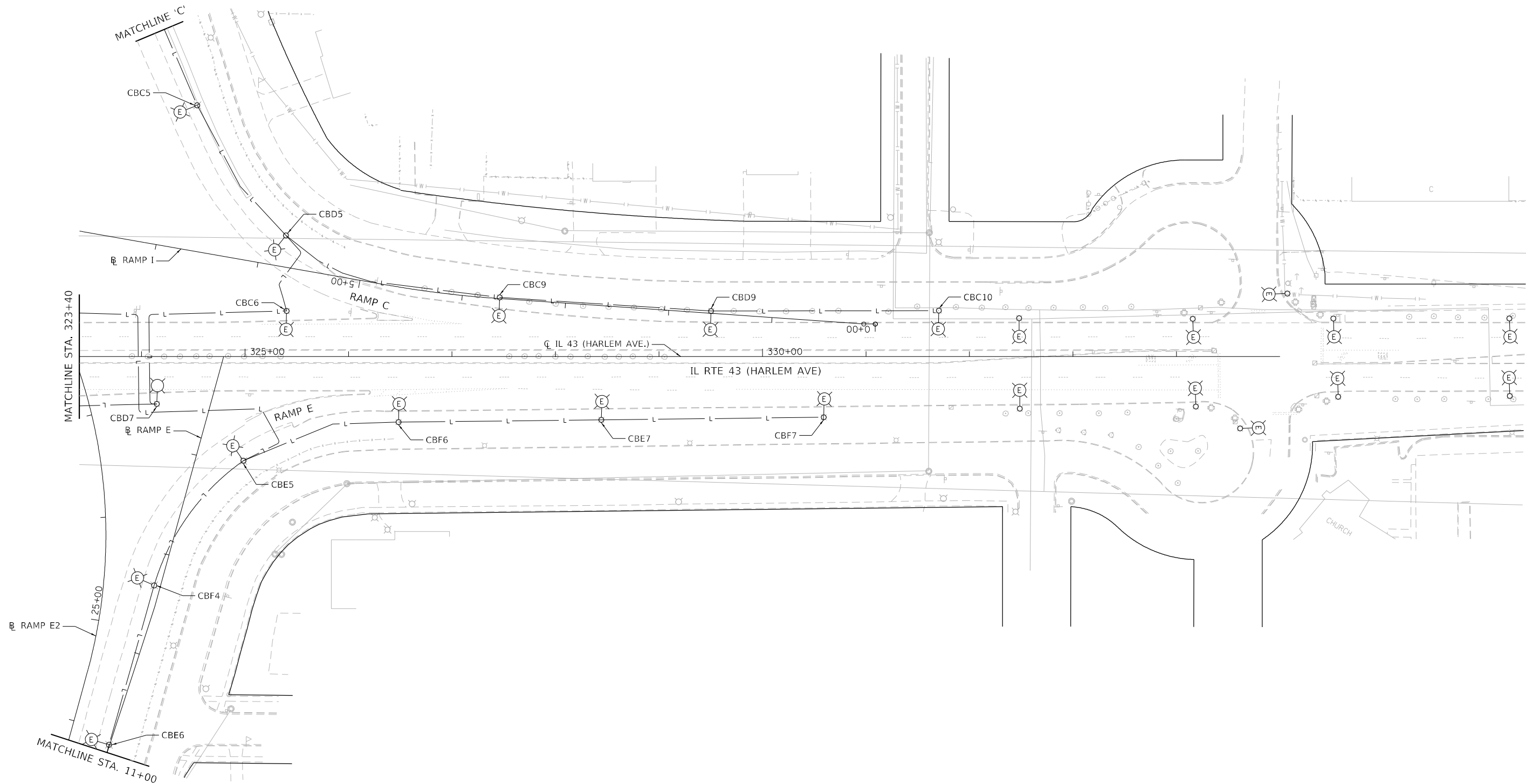
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING LIGHTING

SCALE: 1"=50' SHEET 3 OF 6 SHEETS STA. 314+60 TO STA. 323+40

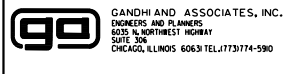
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CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



NO LIGHTING WORK THIS SHEET



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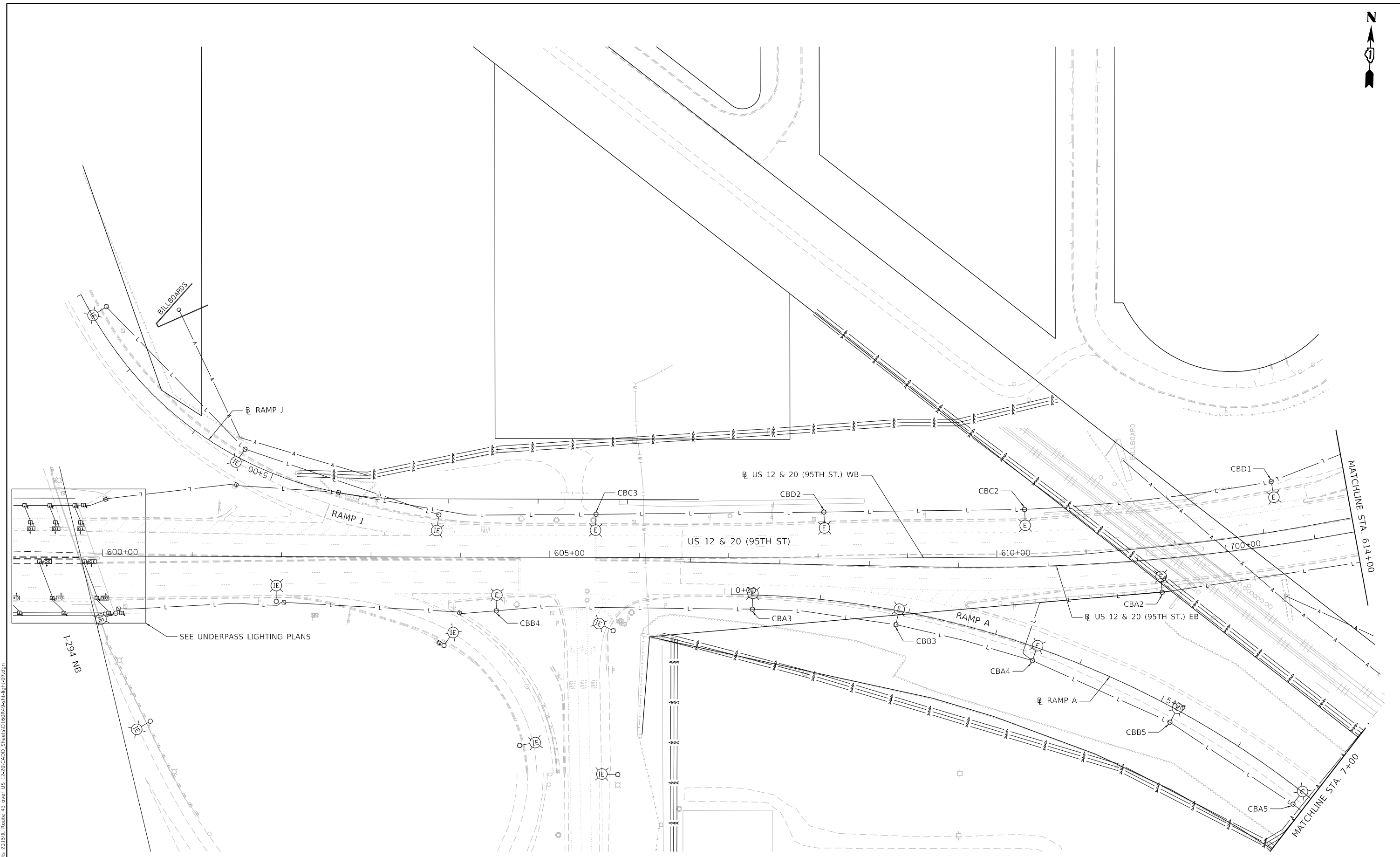
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	DATE - 2024-01-26	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING LIGHTING

SCALE: 1"=50' SHEET 4 OF 6 SHEETS STA. 323+40 TO STA. 335+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	316
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



NO LIGHTING WORK THIS SHEET



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GA GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 6035 N. NORTHWEST HIGHWAY
 SUITE 206
 CHICAGO, ILLINOIS 60630 TEL: 773-774-590

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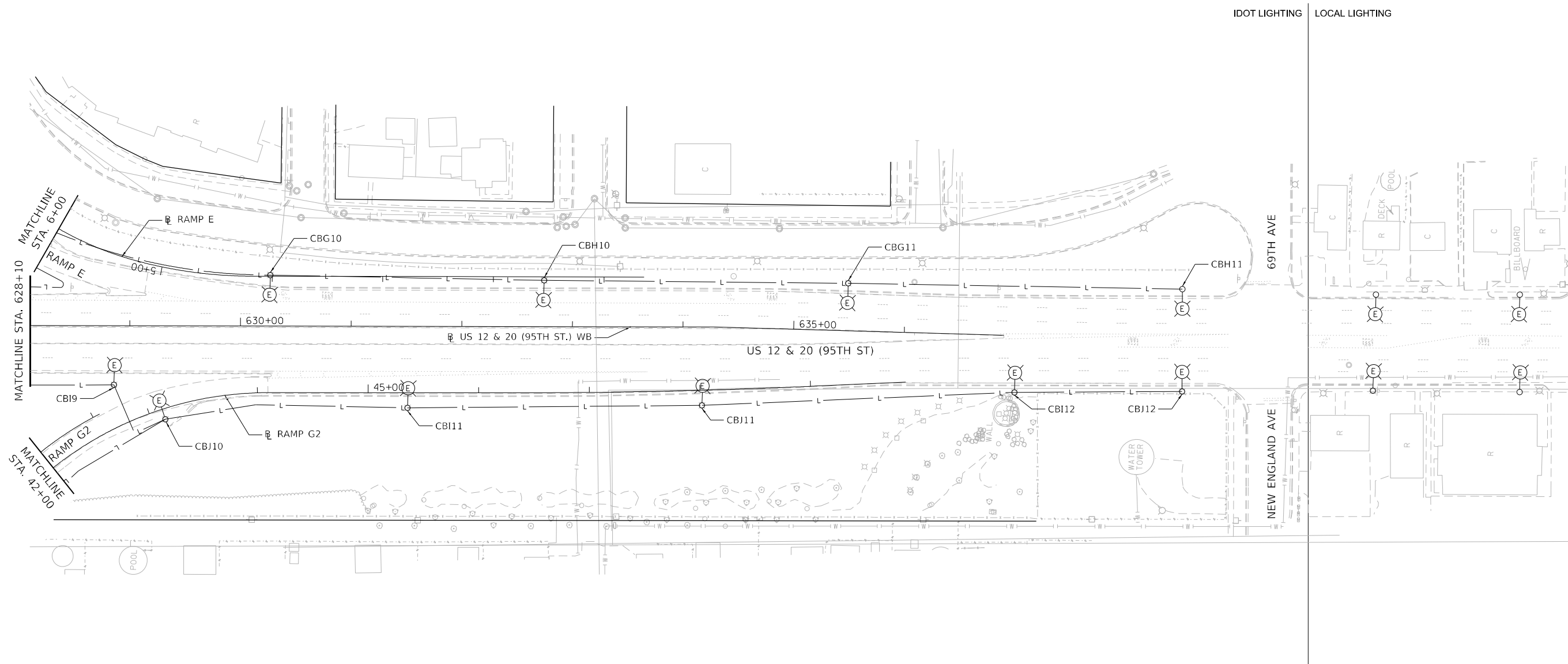
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DATE -	2024-01-26

REVISED -	
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REVISED -	
REVISED -	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

EXISTING LIGHTING			
SCALE: 1"=50'	SHEET 5	OF 6 SHEETS	STA. 600+00 TO STA. 614+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	317
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60R49	



NO LIGHTING WORK THIS SHEET



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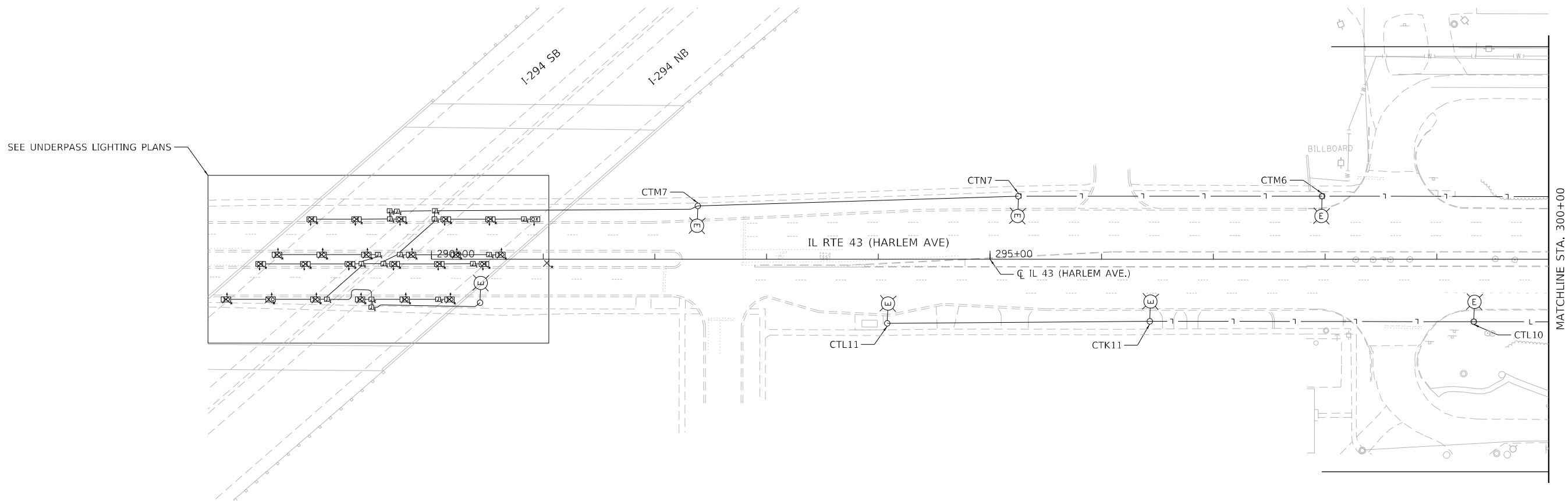
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING LIGHTING

SCALE: 1"=50' SHEET 6 OF 6 SHEETS STA. 628+10 TO STA. 637+00

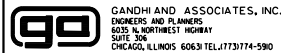
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CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



NO LIGHTING WORK THIS SHEET



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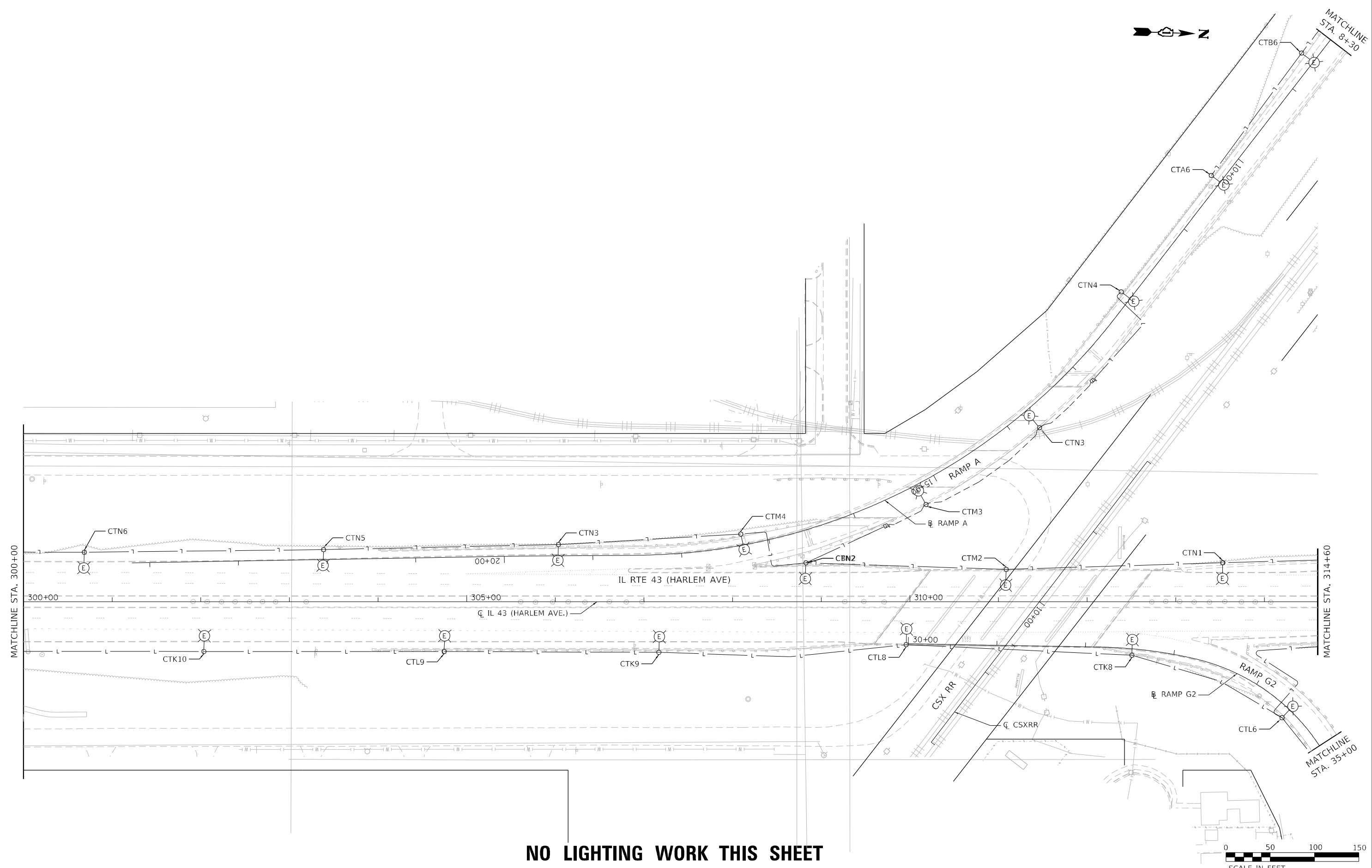
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**STATE OF ILLINOIS
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**TEMPORARY LIGHTING
PRE-STAGE A**

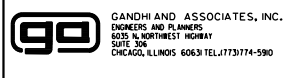
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&RS	COOK	659	319
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



NO LIGHTING WORK THIS SHEET

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**STATE OF ILLINOIS
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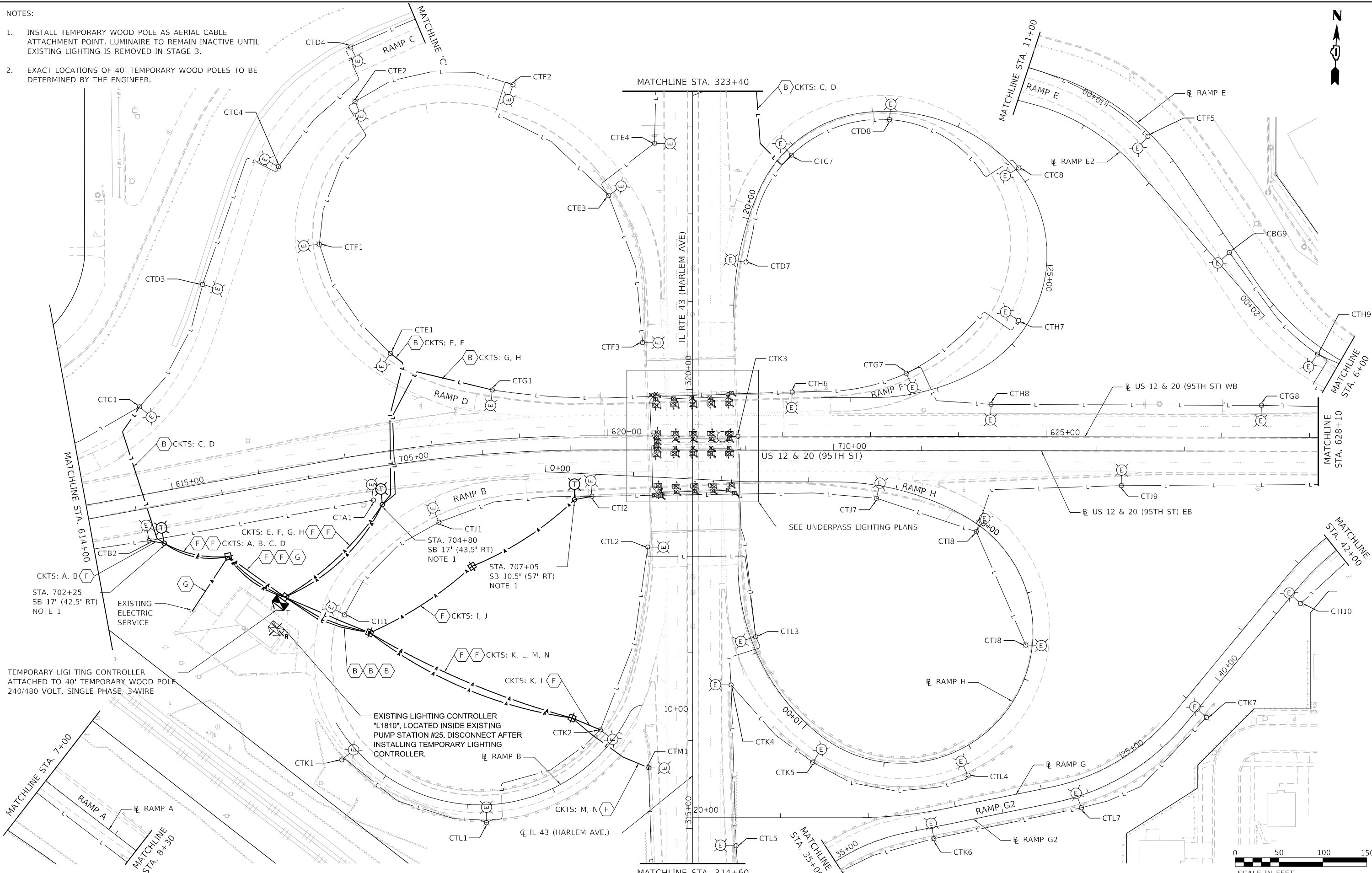
**TEMPORARY LIGHTING
PRE-STAGE A**

SCALE: 1"=50' SHEET 2 OF 6 SHEETS STA. 300+00 TO STA. 314+60

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	320
CONTRACT NO. 60R49			ILLINOIS FED. AID PROJECT	

NOTES:

1. INSTALL TEMPORARY WOOD POLE AS AERIAL CABLE ATTACHMENT POINT. LUMINAIRE TO REMAIN INACTIVE UNTIL EXISTING LIGHTING IS REMOVED IN STAGE 3.
2. EXACT LOCATIONS OF 40' TEMPORARY WOOD POLES TO BE DETERMINED BY THE ENGINEER.



TEMPORARY LIGHTING CONTROLLER ATTACHED TO 40' TEMPORARY WOOD POLE 240/480 VOLT, SINGLE PHASE, 3-WIRE

EXISTING LIGHTING CONTROLLER "L1810", LOCATED INSIDE EXISTING PUMP STATION #25. DISCONNECT AFTER INSTALLING TEMPORARY LIGHTING CONTROLLER.

SEE UNDERPASS LIGHTING PLANS



USER NAME	= brice
DESIGNED	- MA
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CHECKED	- NT
DATE	- 2024-01-26
REVISIONS	
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REVISIONS	
REVISIONS	

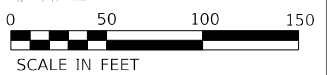
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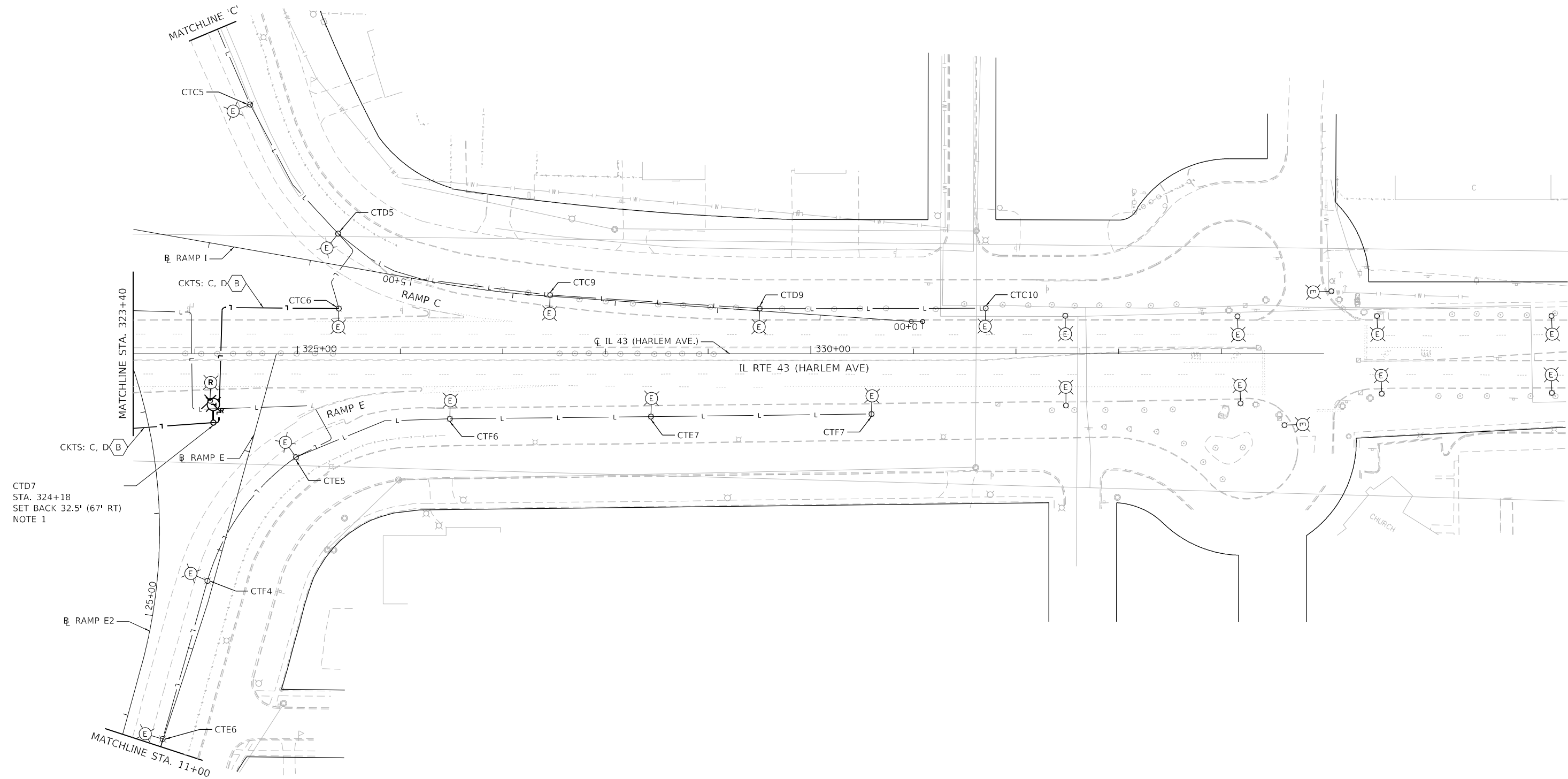
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING
PRE-STAGE A

SCALE: 1"=50' SHEET 3 OF 6 SHEETS STA. 314+60 TO STA. 323+40

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	321
CONTRACT NO. 60R49				





CTD7
STA. 324+18
SET BACK 32.5' (67' RT)
NOTE 1

NOTES:
1. INSTALL TEMPORARY LIGHT POLE AND WIRING PRIOR TO REMOVAL OF EXISTING LIGHT POLE AND CONSTRUCTION OF TEMPORARY RAMP E.



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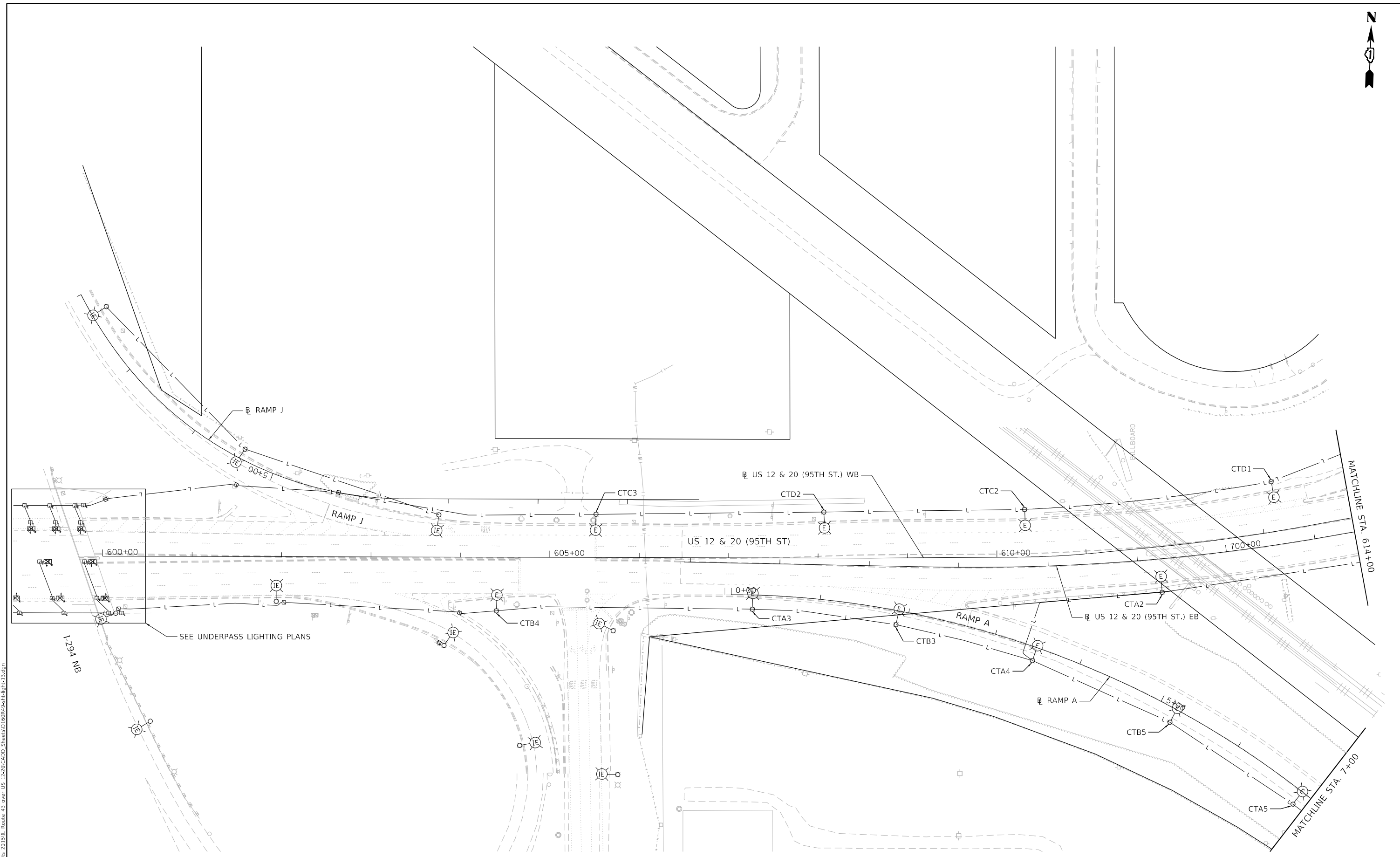
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	PLOT DATE = 1/26/2024	CHECKED - NT	REVISED -
		DATE - 2024-01-26	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHTING
PRE-STAGE A**

SCALE: 1"=50' SHEET 4 OF 6 SHEETS STA. 323+40 TO STA. 335+00

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&S	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 322
CONTRACT NO. 60R49			ILLINOIS FED. AID PROJECT	



NO LIGHTING WORK THIS SHEET



MODEL: Default
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USER NAME = brice	DESIGNED - MA	REVISED -
DRAWN - BR	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - NT	REVISED -
PLOT DATE = 1/26/2024	DATE - 2024-01-26	REVISED -

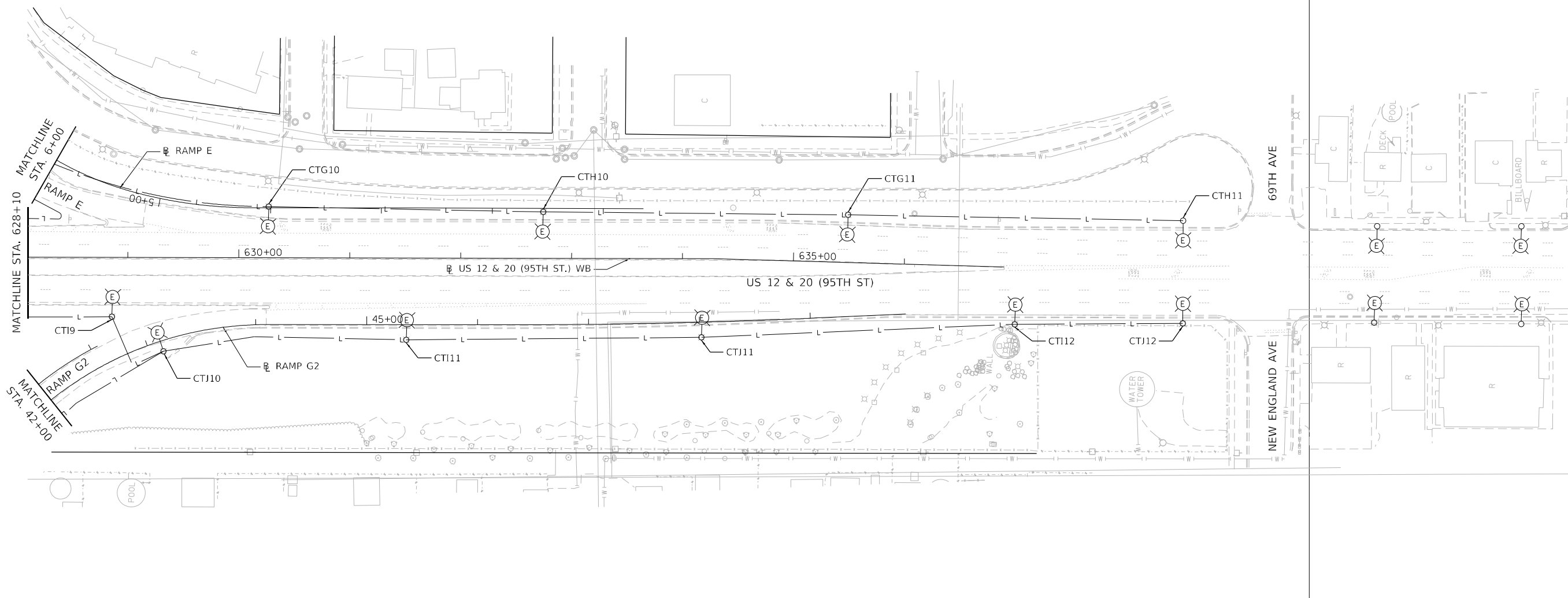
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING			
PRE-STAGE A			
SCALE: 1"=50'	SHEET 5	OF 6 SHEETS	STA. 600+00 TO STA. 614+00

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&S	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 323
			CONTRACT NO. 60R49	
ILLINOIS FED. AID PROJECT				



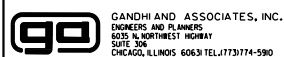
IDOT LIGHTING LOCAL LIGHTING



NO LIGHTING WORK THIS SHEET



MODEL: Default
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USER NAME = brice
DESIGNED - MA
DRAWN - BR
CHECKED - NT
DATE - 2024-01-26

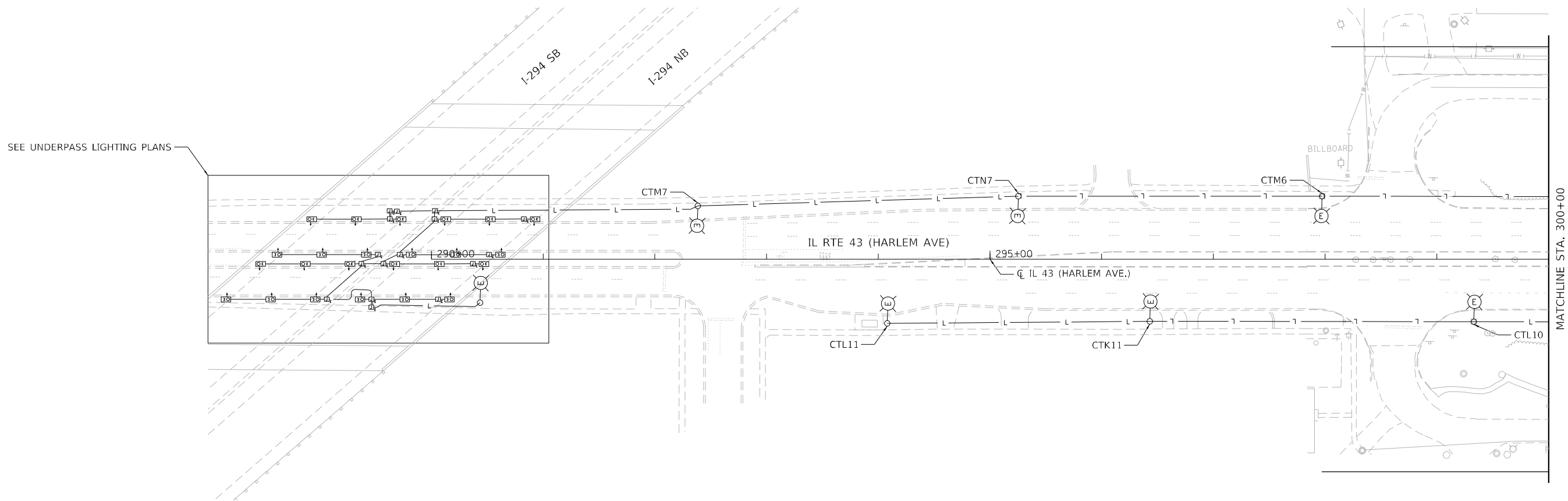
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING
PRE-STAGE A

SCALE: 1"=50' SHEET 6 OF 6 SHEETS STA. 628+10 TO STA. 637+00

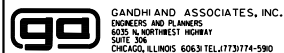
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	324
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



NO LIGHTING WORK THIS SHEET



MODEL: Default
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USER NAME = brice	DESIGNED - MA	REVISED -
	DRAWN - BR	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - NT	REVISED -
PLOT DATE = 1/26/2024	DATE - 2024-01-26	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHTING
PRE-STAGE B**

SCALE: 1"=50' SHEET 1 OF 6 SHEETS STA. 290+00 TO STA. 300+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&RS	COOK	659	325
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



MATCHLINE STA. 8+30

CTB6

CTA6

CTN4

CTN3

CTM4

CTM3

CTM4

CTN2

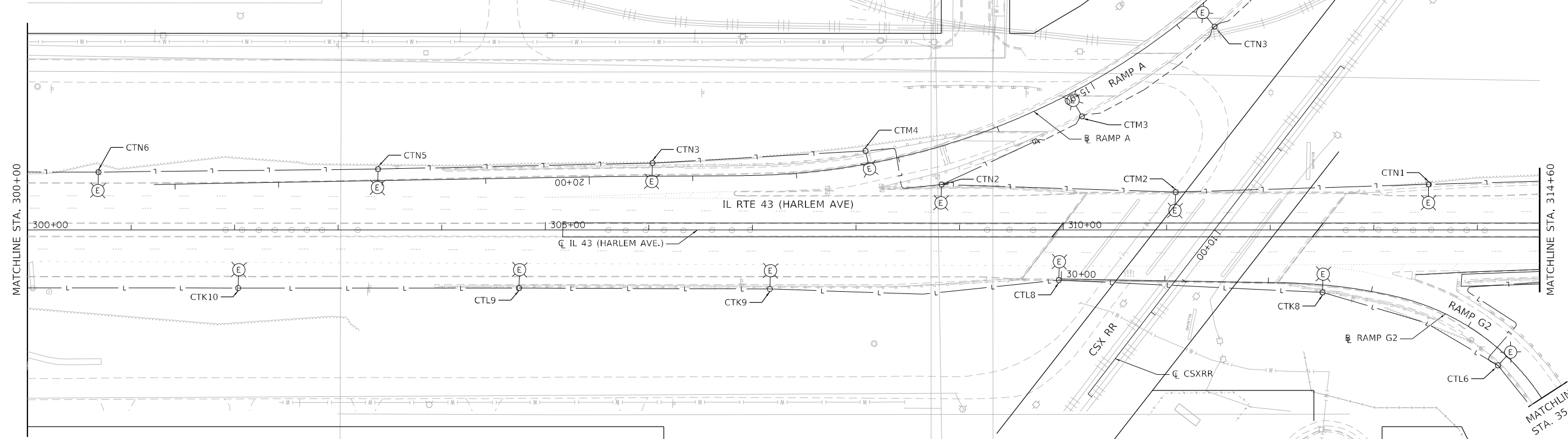
CTM2

CTN1

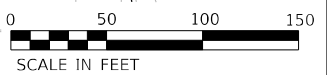
CTK8

CTL6

MATCHLINE STA. 35+00



NO LIGHTING WORK THIS SHEET



MODEL: Default
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USER NAME = brice	DESIGNED - MA	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - BR	REVISED -
PLOT DATE = 1/26/2024	CHECKED - NT	REVISED -
	DATE - 2024-01-26	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

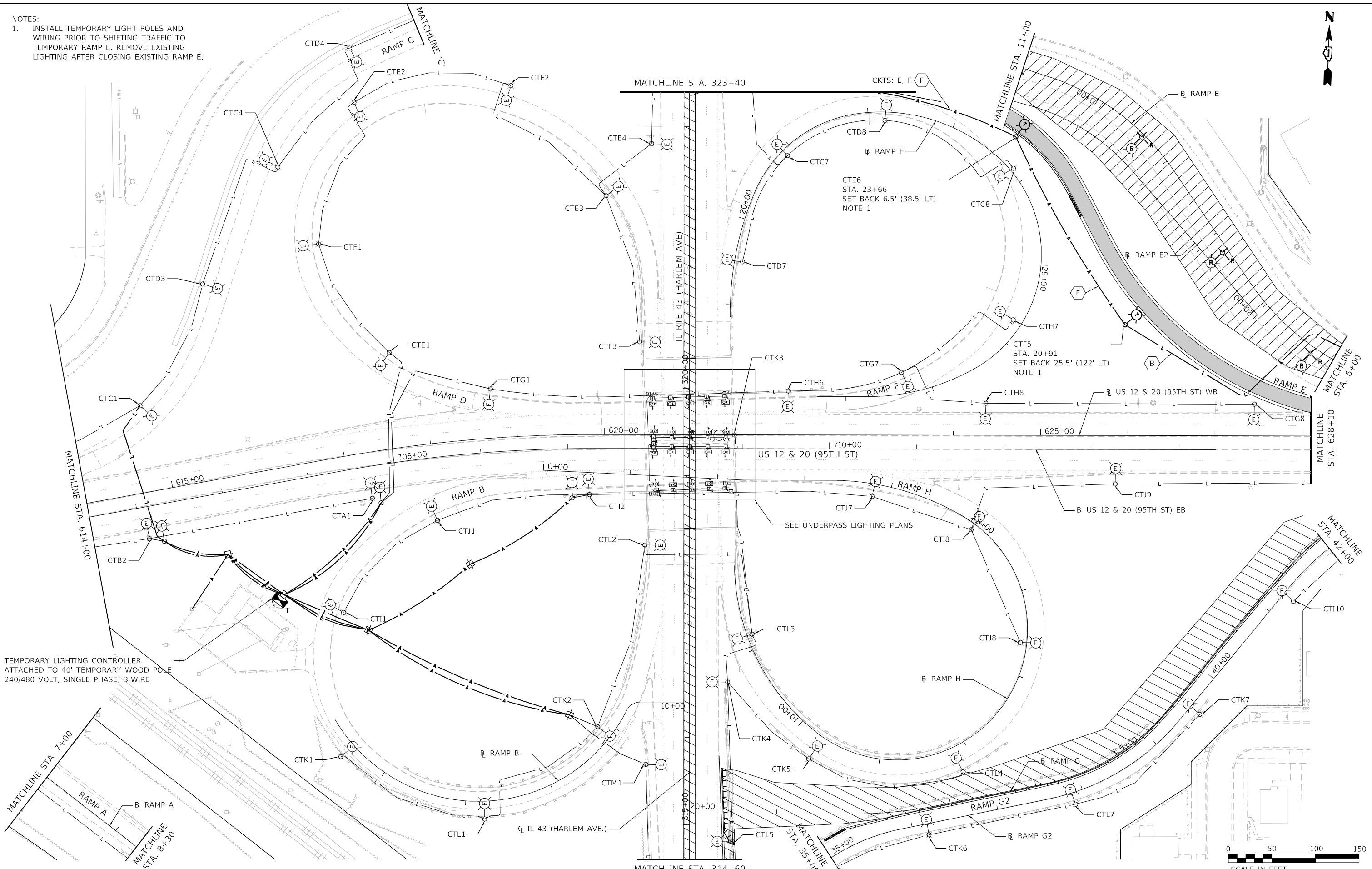
**TEMPORARY LIGHTING
PRE-STAGE B**

SCALE: 1"=50' SHEET 2 OF 6 SHEETS STA. 300+00 TO STA. 314+60

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	326
CONTRACT NO. 60R49				

ILLINOIS FED. AID PROJECT

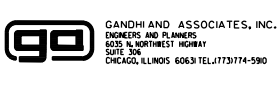
NOTES:
 1. INSTALL TEMPORARY LIGHT POLES AND WIRING PRIOR TO SHIFTING TRAFFIC TO TEMPORARY RAMP E. REMOVE EXISTING LIGHTING AFTER CLOSING EXISTING RAMP E.



TEMPORARY LIGHTING CONTROLLER ATTACHED TO 40' TEMPORARY WOOD POLE 240/480 VOLT, SINGLE PHASE, 3-WIRE



MODEL: Default
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 PROJECT: 3128-Z-I-R&S

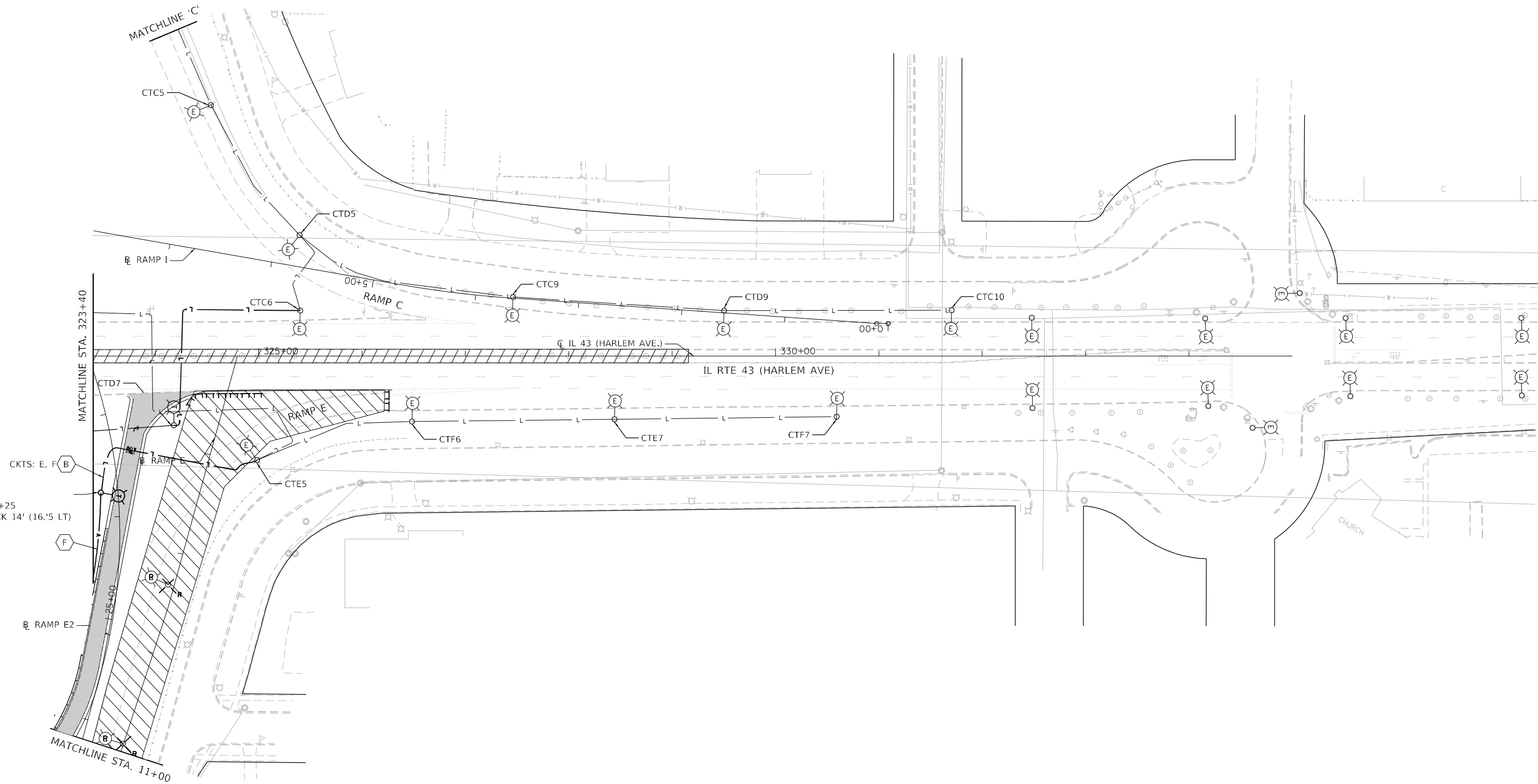


USER NAME = brice	DESIGNED - MA	REVISED -
DRAWN - BR	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - NT	REVISED -
PLOT DATE = 1/26/2024	DATE - 2024-01-26	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TEMPORARY LIGHTING PRE-STAGE B	
SCALE: 1"=50'	SHEET 3 OF 6 SHEETS
STA. 314+60	TO STA. 323+40

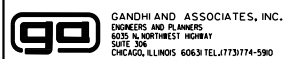
F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&S	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 327
			CONTRACT NO. 60R49	
ILLINOIS FED. AID PROJECT				



- NOTES:
1. INSTALL TEMPORARY LIGHT POLES AND WIRING PRIOR TO SHIFTING TRAFFIC TO TEMPORARY RAMP E. REMOVE EXISTING LIGHTING AFTER CLOSING EXISTING RAMP E.



MODEL: Default
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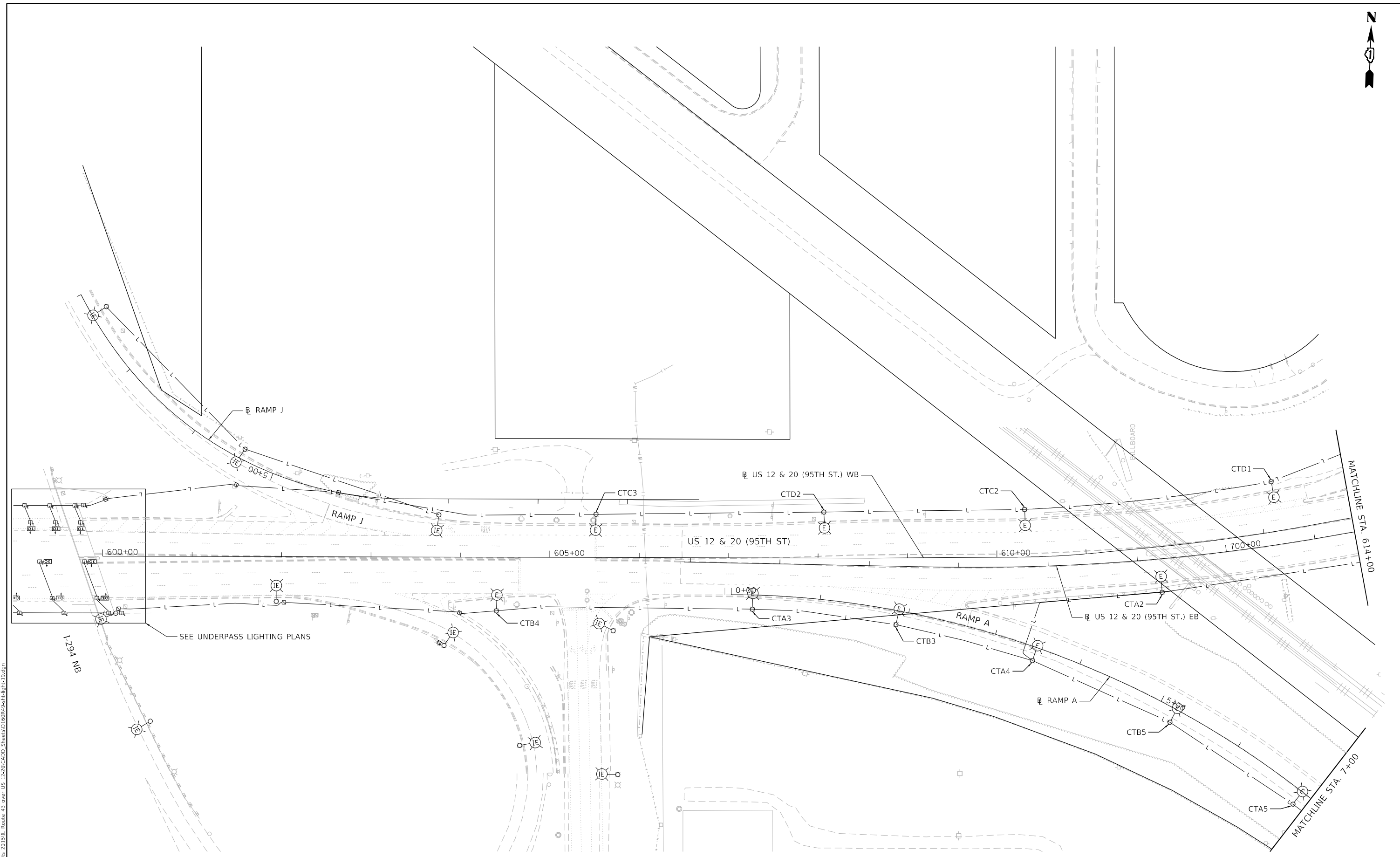
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PLOT SCALE = 100,0000' / in.	DRAWN - BR	REVISED -
PLOT DATE = 1/26/2024	CHECKED - NT	REVISED -
	DATE - 2024-01-26	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

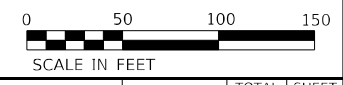
**TEMPORARY LIGHTING
PRE-STAGE B**

SCALE: 1"=50' SHEET 4 OF 6 SHEETS STA. 323+40 TO STA. 335+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	328
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60R49	



NO LIGHTING WORK THIS SHEET



MODEL: Default
 FILE NAME: C:\PROJECTS\Projects_2013\IL_Route_43_svr\US_12-20\CAD\Drawings\Sheet\Lighting\19.dgn
 PROJECT: 3128-Z-I-R&S



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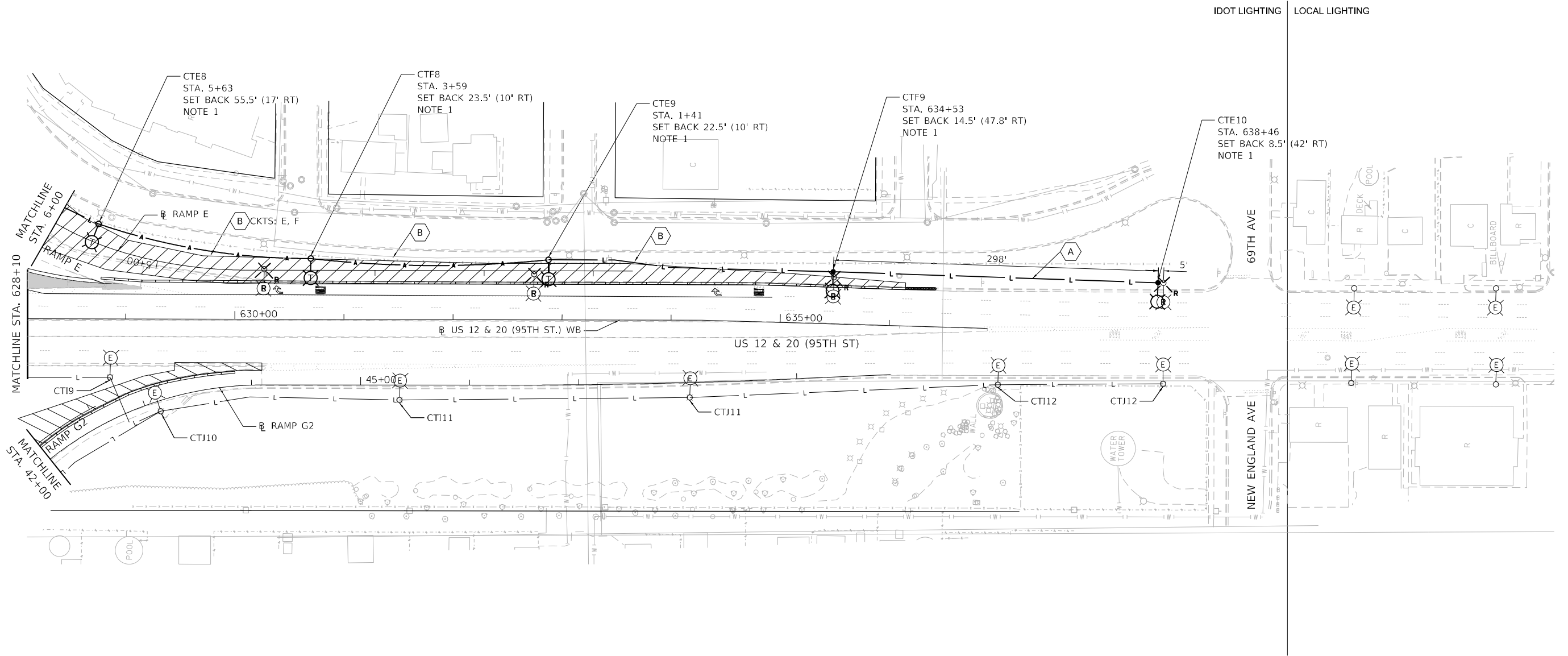
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 DESIGNED - MA
 DRAWN - BR
 CHECKED - NT
 DATE - 2024-01-26

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING
PRE-STAGE B
 SCALE: 1"=50' SHEET 5 OF 6 SHEETS STA. 600+00 TO STA. 614+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	329
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



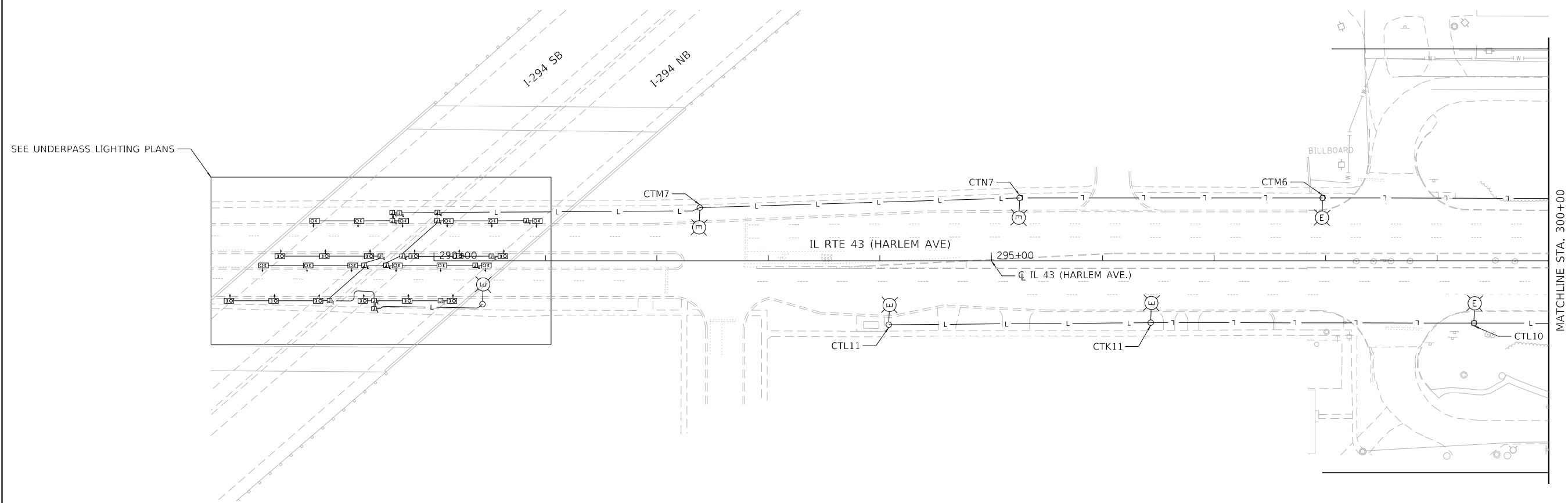
- NOTES:
 1. INSTALL PROPOSED LIGHTING PRIOR TO REMOVAL OF EXISTING LIGHTING. DISCONNECT EXISTING LIGHTING WHEN PROPOSED LIGHTING IS ENERGIZED FROM TEMPORARY CIRCUIT.



SCALE IN FEET

MODEL: Default
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 PROJECT: 2015 IL Route 43 over US 12-20

	USER NAME = brice	DESIGNED - MA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY LIGHTING PRE-STAGE B			F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&S	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 330	
	PLOT SCALE = 100,0000' / in.	CHECKED - NT	REVISED -					CONTRACT NO. 60R49					
	PLOT DATE = 1/26/2024	DATE - 2024-01-26	REVISED -	SCALE: 1"=50'			SHEET 6 OF 6 SHEETS			STA. 628+10 TO STA. 637+00		ILLINOIS FED. AID PROJECT	



NO LIGHTING WORK THIS SHEET



MODEL: Default
 FILE NAME: C:\PROJECTS\Projects 2015\IL Route 43 over US 129\02\ADD_Sheets\160R49-sh-light-2.dgn


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 CHICAGO, ILLINOIS 60630 TEL: 773-774-5900

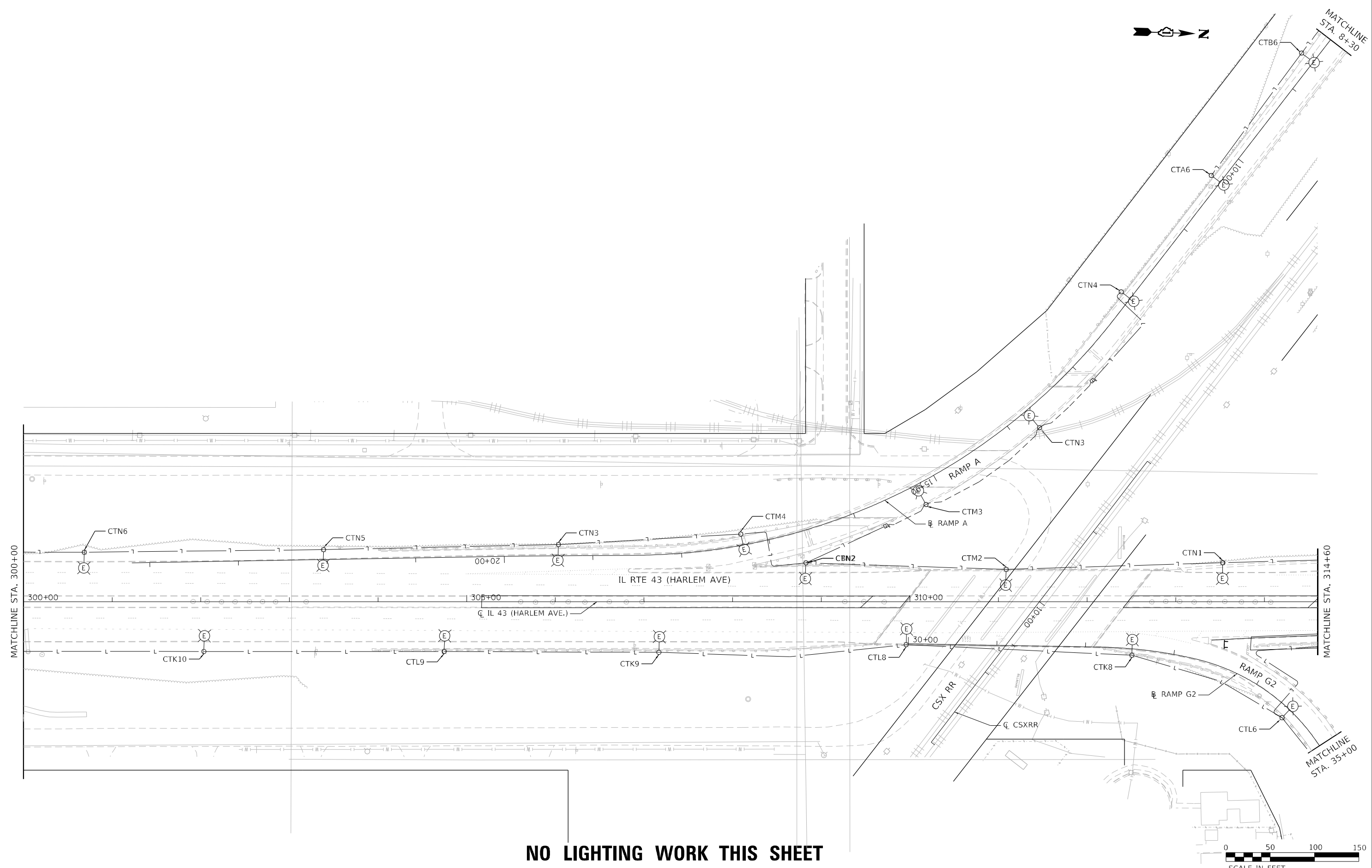
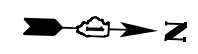
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PLOT DATE = 1/26/2024	DATE - 2024-01-26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING
PRE-STAGE C

SCALE: 1"=50' SHEET 1 OF 6 SHEETS STA. 290+00 TO STA. 300+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&RS	COOK	659	331
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



NO LIGHTING WORK THIS SHEET

MODEL: Default
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USER NAME = brice	DESIGNED - MA	REVISED -
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	DATE - 2024-01-26	REVISED -

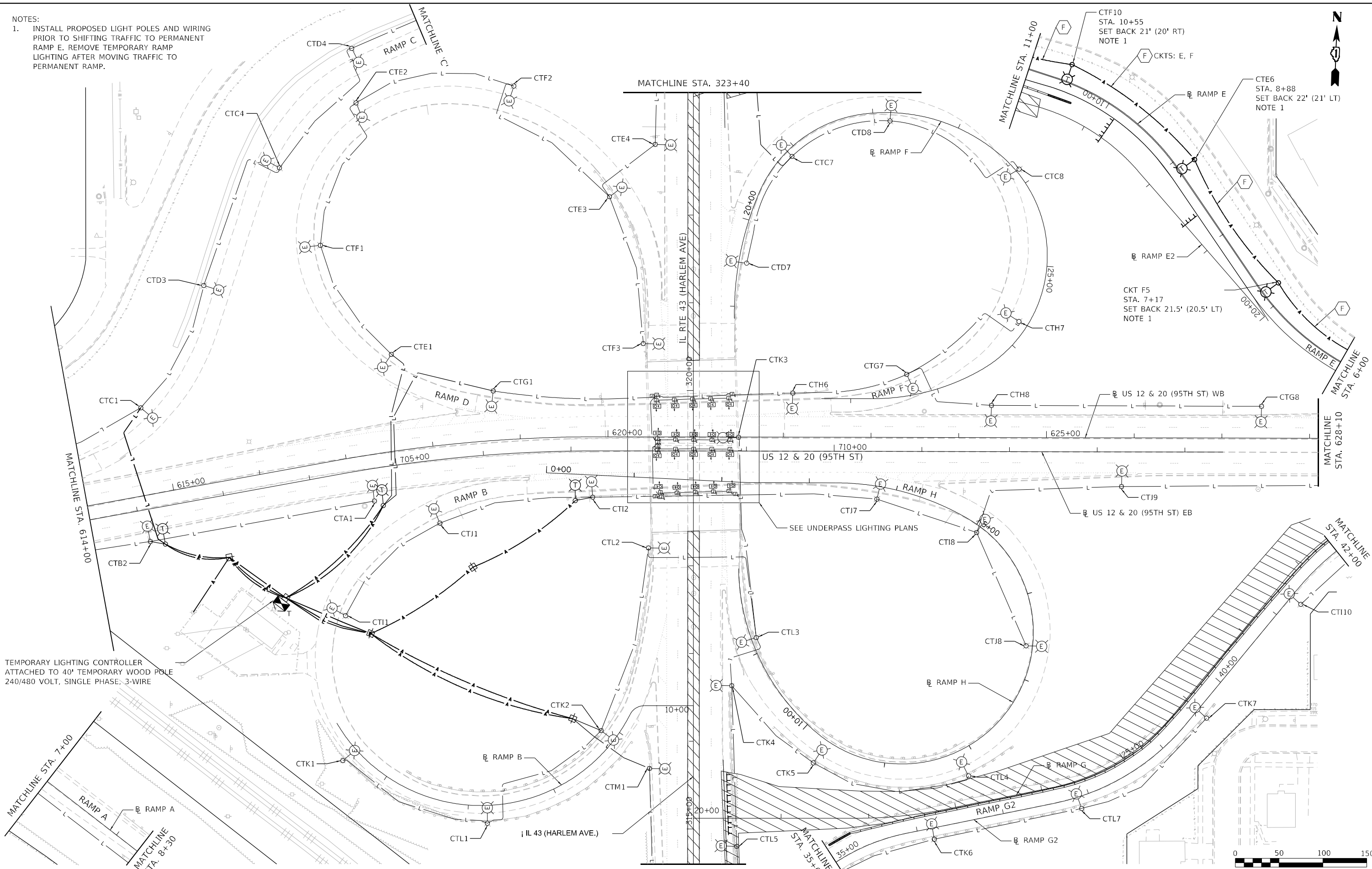
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHTING
PRE-STAGE C**

SCALE: 1"=50' SHEET 2 OF 6 SHEETS STA. 300+00 TO STA. 314+60

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	332
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				

NOTES:
 1. INSTALL PROPOSED LIGHT POLES AND WIRING PRIOR TO SHIFTING TRAFFIC TO PERMANENT RAMP E. REMOVE TEMPORARY RAMP LIGHTING AFTER MOVING TRAFFIC TO PERMANENT RAMP.



TEMPORARY LIGHTING CONTROLLER ATTACHED TO 40' TEMPORARY WOOD POLE 240/480 VOLT, SINGLE PHASE, 3-WIRE

MODEL: Default
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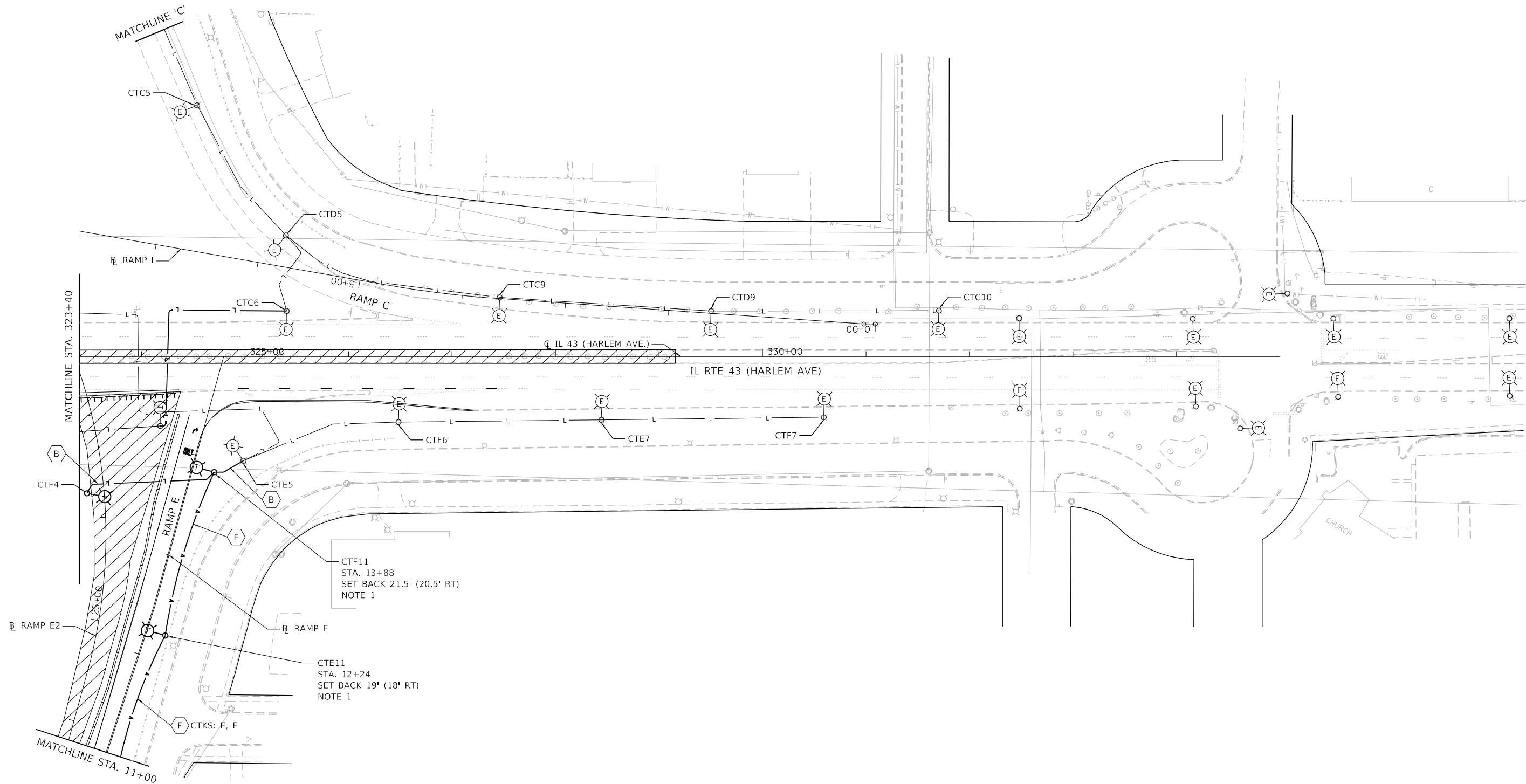
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PLOT DATE = 1/26/2024	DATE - 2024-01-26	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHTING
 PRE-STAGE C**

SCALE: 1"=50' SHEET 3 OF 6 SHEETS STA. 314+60 TO STA. 323+40

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&S	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 333
			CONTRACT NO. 60R49	
ILLINOIS FED. AID PROJECT				



- NOTES:
1. INSTALL PROPOSED LIGHT POLES AND WIRING PRIOR TO SHIFTING TRAFFIC TO PERMANENT RAMP E. REMOVE TEMPORARY RAMP LIGHTING AFTER MOVING TRAFFIC TO PERMANENT RAMP E.



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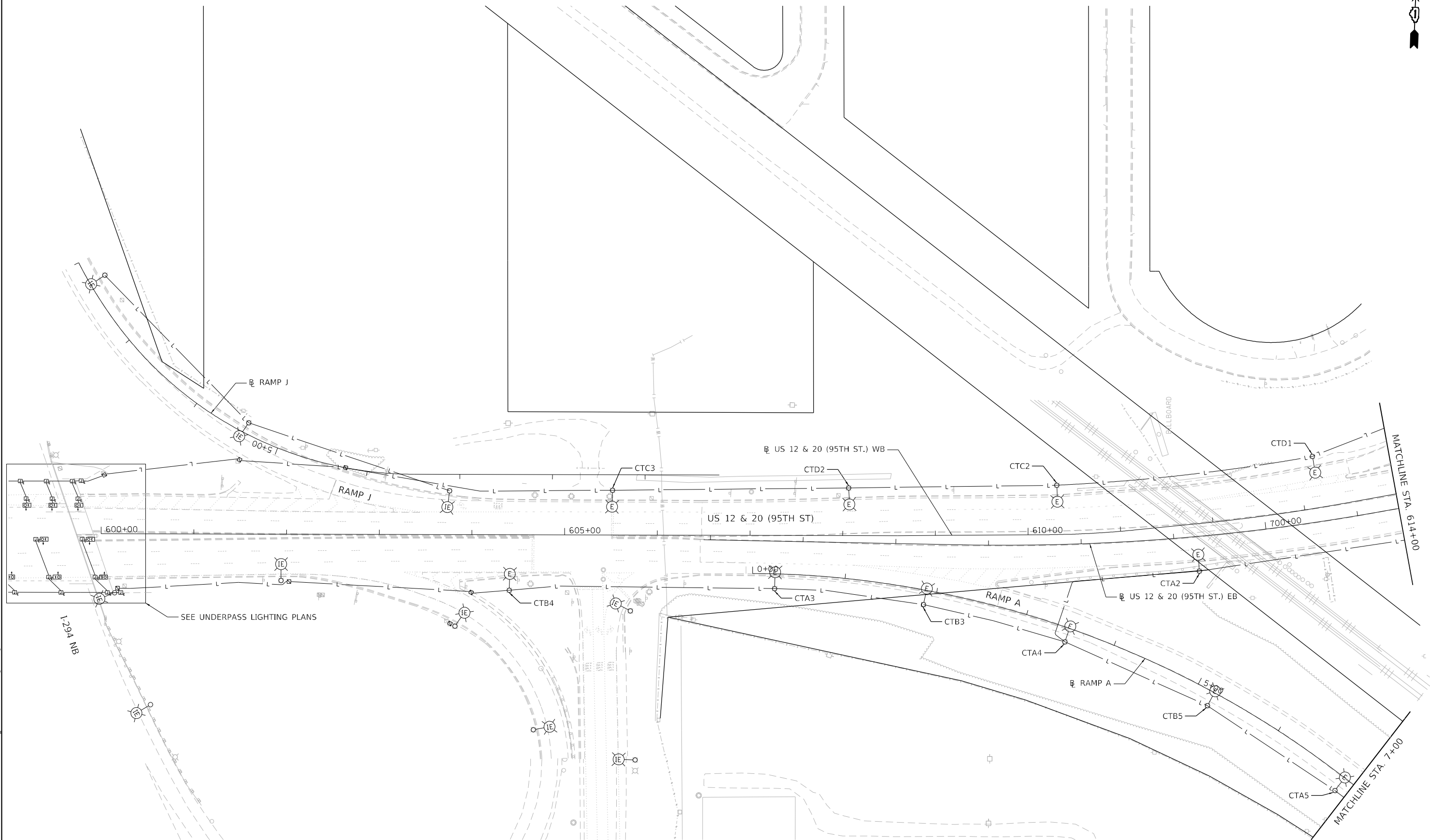
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PLOT SCALE = 100,0000' / in.	DRAWN - BR	REVISED -
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	DATE - 2024-01-26	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHTING
PRE-STAGE C**

SCALE: 1"=50' SHEET 4 OF 6 SHEETS STA. 323+40 TO STA. 335+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	334
CONTRACT NO. 60R49			ILLINOIS FED. AID PROJECT	



NO LIGHTING WORK THIS SHEET



MODEL: Default
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 PROJECT: 3128-Z-I-R&S

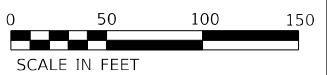
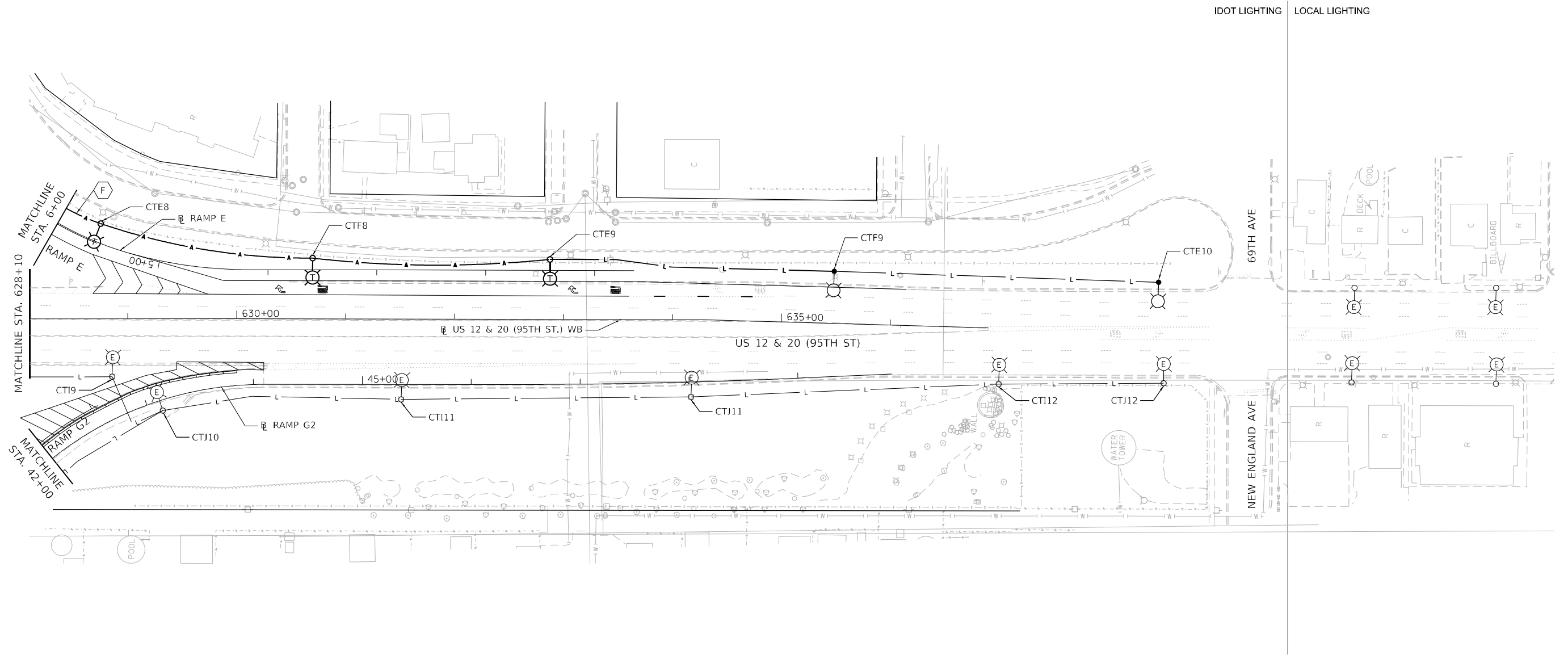


USER NAME = brice	DESIGNED - MA	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - BR	REVISED -
PLOT DATE = 1/26/2024	CHECKED - NT	REVISED -
	DATE - 2024-01-26	REVISED -


DESIGNED - MA	REVISED -
DRAWN - BR	REVISED -
CHECKED - NT	REVISED -
DATE - 2024-01-26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING PRE-STAGE C		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		29 & 348	3128-Z-I-R&S	COOK	659	335
SCALE: 1"=50' SHEET 5 OF 6 SHEETS STA. 600+00 TO STA. 614+00		CONTRACT NO. 60R49 ILLINOIS FED. AID PROJECT				



MODEL: Default
 FILE NAME: C:\PROJECTS\Projects_2015\IL_Route 43 over US 12-20\CAD\Drawings\Sheet\60R49-sh-light-26.dgn


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 6035 N. NORTHWEST HIGHWAY
 SUITE 206
 CHICAGO, ILLINOIS 60630 TEL: 773-774-590

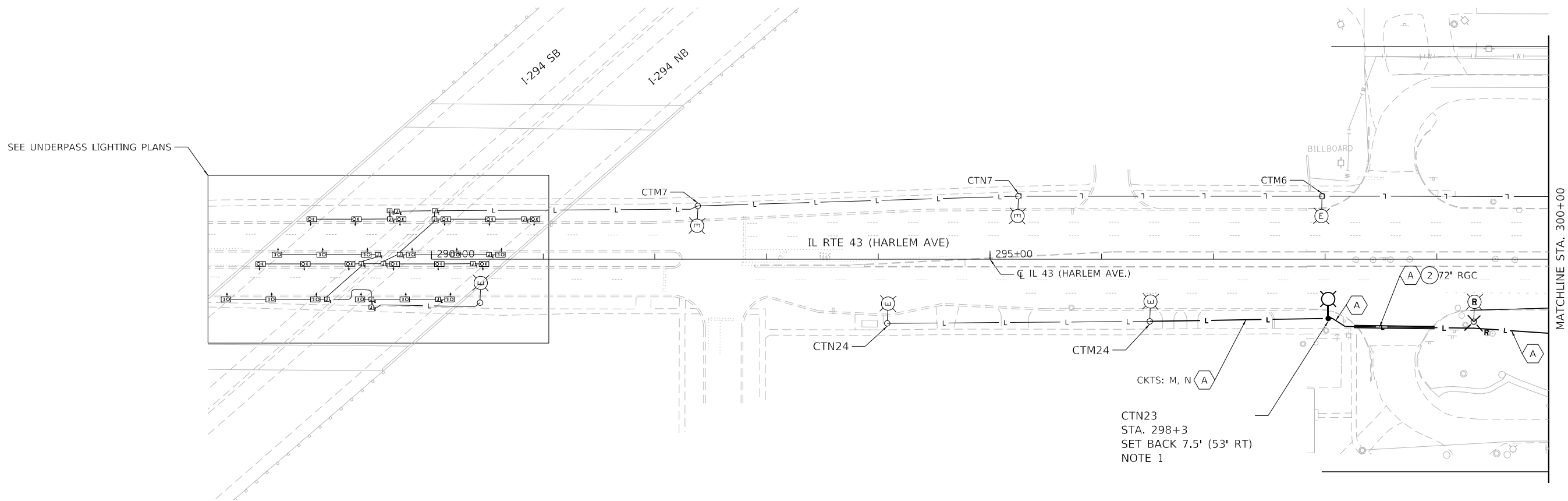
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PLOT DATE = 1/26/2024	DATE - 2024-01-26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING
PRE-STAGE C

SCALE: 1"=50' SHEET 6 OF 6 SHEETS STA. 628+10 TO STA. 637+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	336
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				




SEE UNDERPASS LIGHTING PLANS

- NOTES:
- INSTALL PROPOSED LIGHTING PRIOR TO REMOVAL OF EXISTING LIGHTING.
REMOVE EXISTING LIGHTING AFTER ENERGIZING PROPOSED LIGHTING.



SCALE IN FEET

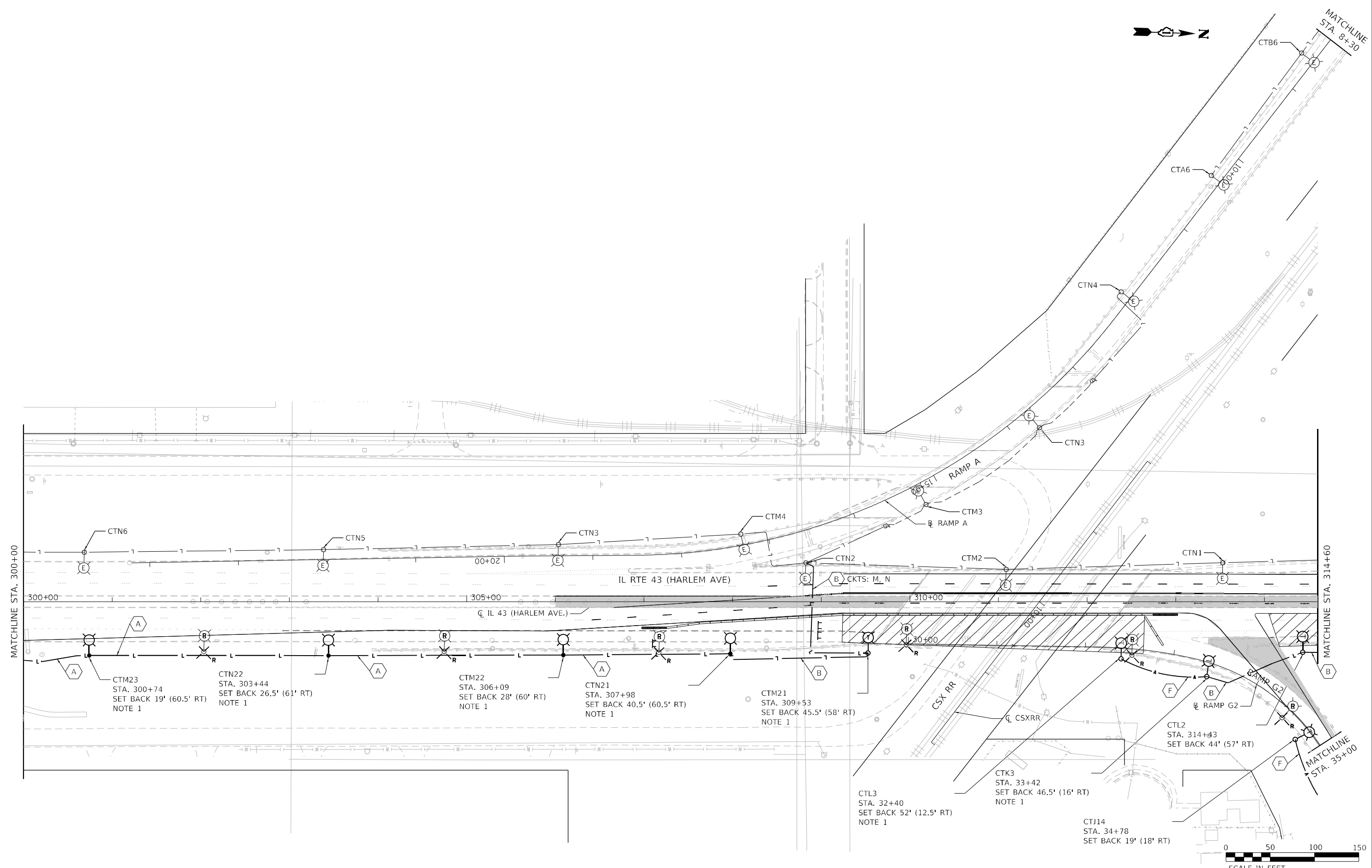
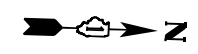
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 GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 6035 N. NORTHWEST HIGHWAY
 SUITE 206
 CHICAGO, ILLINOIS 60630 TEL: 773-774-5900

	USER NAME = brice	DESIGNED - MA	REVISED -
		DRAWN - BR	REVISED -
	PLOT SCALE = 100,0000' / in.	CHECKED - NT	REVISED -
	PLOT DATE = 1/26/2024	DATE - 2024-01-26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING			
STAGE 1			
SCALE: 1"=50'	SHEET 1	OF 6 SHEETS	STA. 290+00 TO STA. 300+00

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 337
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



CTM23
STA. 300+74
SET BACK 19' (60.5' RT)
NOTE 1

CTN22
STA. 303+44
SET BACK 26.5' (61' RT)
NOTE 1

CTM22
STA. 306+09
SET BACK 28' (60' RT)
NOTE 1

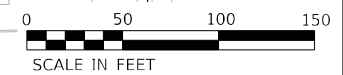
CTN21
STA. 307+98
SET BACK 40.5' (60.5' RT)
NOTE 1

CTM21
STA. 309+53
SET BACK 45.5' (58' RT)
NOTE 1

CTL3
STA. 32+40
SET BACK 52' (12.5' RT)
NOTE 1

CTK3
STA. 33+42
SET BACK 46.5' (16' RT)
NOTE 1

CTJ14
STA. 34+78
SET BACK 19' (18' RT)



MODEL: Default
 FILE NAME: C:\PROJECTS\Projects\2015\IL_Route_43.dwg US 12-20-CADD_SheetID:60R49-sh-light-28.dgn



USER NAME = brice	DESIGNED - MA	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - BR	REVISED -
PLOT DATE = 1/26/2024	CHECKED - NT	REVISED -
	DATE - 2024-01-26	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

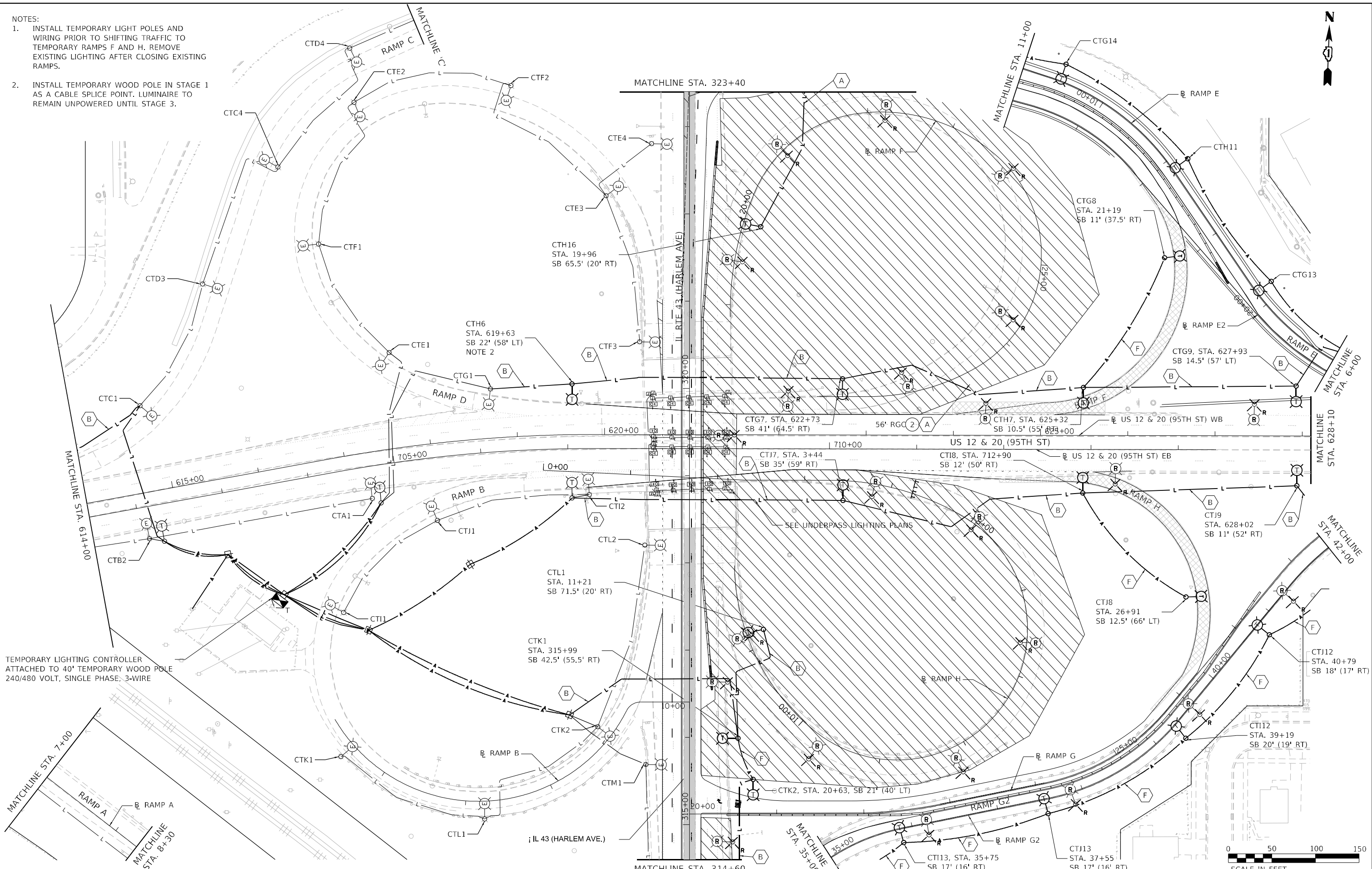
**TEMPORARY LIGHTING
STAGE 1**

SCALE: 1"=50' SHEET 2 OF 6 SHEETS STA. 300+00 TO STA. 314+60

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 338
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60R49	

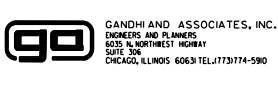
NOTES:

1. INSTALL TEMPORARY LIGHT POLES AND WIRING PRIOR TO SHIFTING TRAFFIC TO TEMPORARY RAMPS F AND H. REMOVE EXISTING LIGHTING AFTER CLOSING EXISTING RAMPS.
2. INSTALL TEMPORARY WOOD POLE IN STAGE 1 AS A CABLE SPLICE POINT. LUMINAIRE TO REMAIN UNPOWERED UNTIL STAGE 3.



TEMPORARY LIGHTING CONTROLLER ATTACHED TO 40' TEMPORARY WOOD POLE 240/480 VOLT, SINGLE PHASE, 3-WIRE

MODEL: Default
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USER NAME	= brice
PLOT SCALE	= 100,0000' / in.
PLOT DATE	= 1/26/2024

DESIGNED	- MA
DRAWN	- BR
CHECKED	- NT
DATE	- 2024-01-26

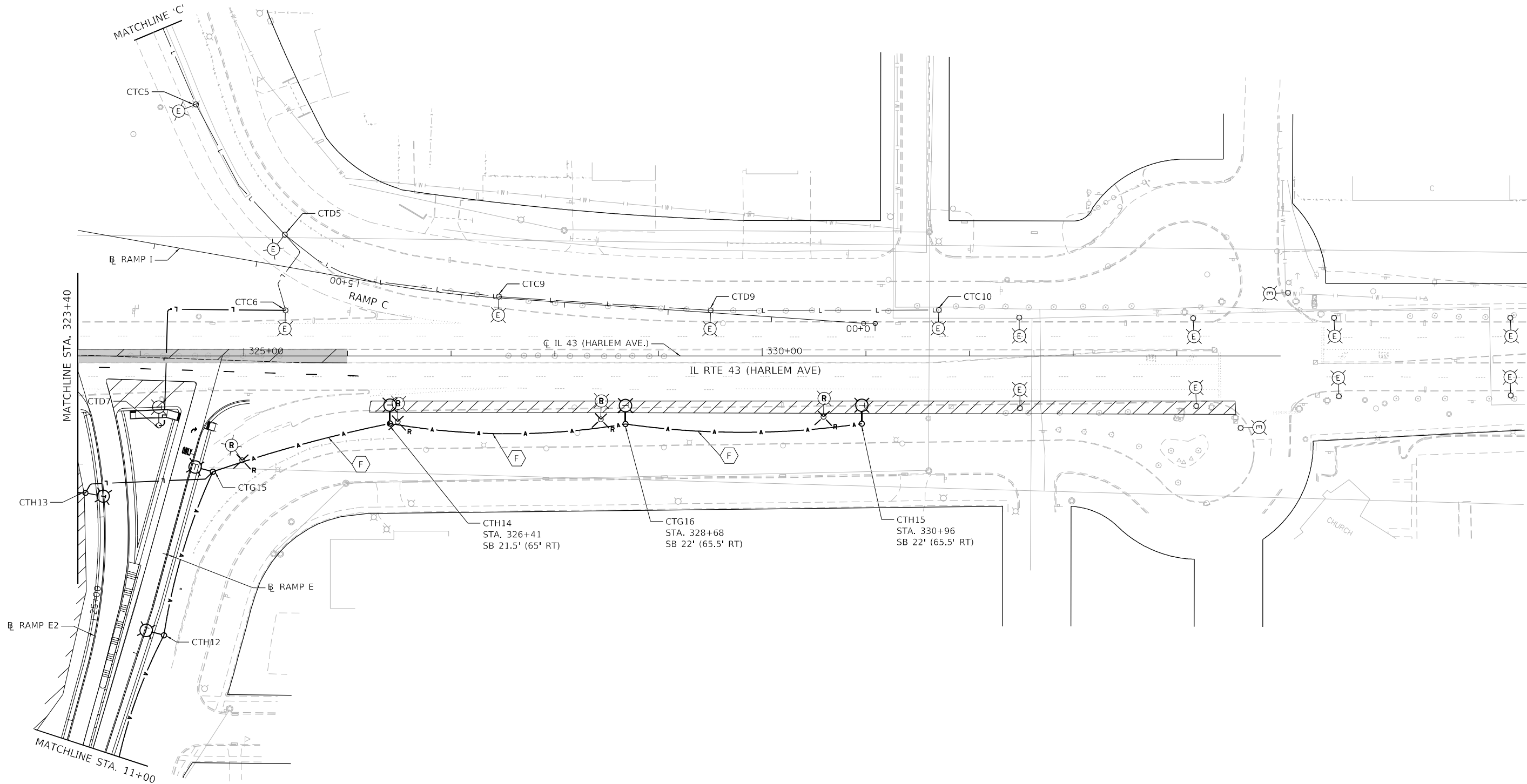
REVISED	-
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REVISED	-
REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHTING
STAGE 1**

SCALE: 1"=50' SHEET 3 OF 6 SHEETS STA. 314+60 TO STA. 323+40

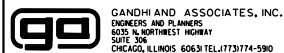
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&RS	COOK	659	339
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



- NOTES:
1. INSTALL TEMPORARY LIGHT POLES AND WIRING PRIOR TO SHIFTING TRAFFIC TO TEMPORARY RAMP E. REMOVE EXISTING LIGHTING AFTER CLOSING EXISTING RAMP E.



MODEL: Default
 FILE NAME: \\proj\projects\2015\IL_Route_43\over_US_12-20\cadd_Sheets\160849-sh-light-30.dgn
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GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 6035 N. NORTHWEST HIGHWAY
 SUITE 208
 CHICAGO, ILLINOIS 60631 TEL: 773-774-5900

USER NAME = brice	DESIGNED - MA	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - BR	REVISED -
PLOT DATE = 1/26/2024	CHECKED - NT	REVISED -
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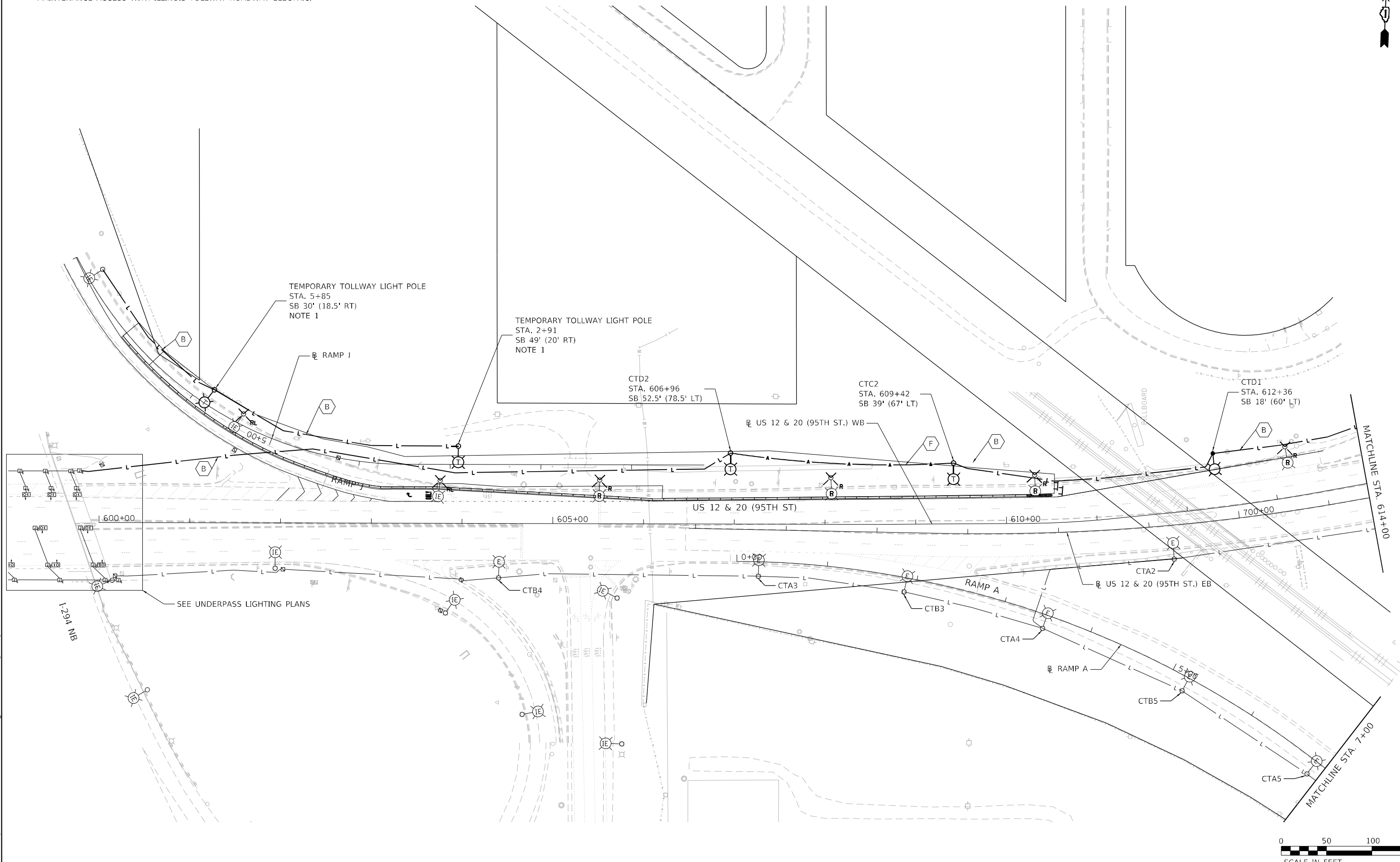
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING
STAGE 1

SCALE: 1"=50' SHEET 4 OF 6 SHEETS STA. 323+40 TO STA. 335+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	340
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				

NOTES:
 1. POWERED FROM LIGHTING CONTROLLER ON I-294 NOTHBOUND IN IPDC 18.0. COORDINATE MAINTENANCE ACCESS WITH ILLINOIS TOLLWAY ROADWAY ELECTRIC.



MODEL: Default
 FILE NAME: C:\PROJECTS\Projects\2015\IL_Route 43 over US 12-20\CAD\Drawings\Sheet\Lighting\31.dgn
 PROJECT: 2015\IL_Route 43 over US 12-20\CAD\Drawings\Sheet\Lighting\31.dgn

GA GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 6035 N. NORTHWEST HIGHWAY
 SUITE 206
 CHICAGO, ILLINOIS 60630 TEL: 773-774-590

USER NAME = brice	DESIGNED - MA	REVISED -
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PLOT DATE = 1/26/2024	DATE - 2024-01-26	REVISED -

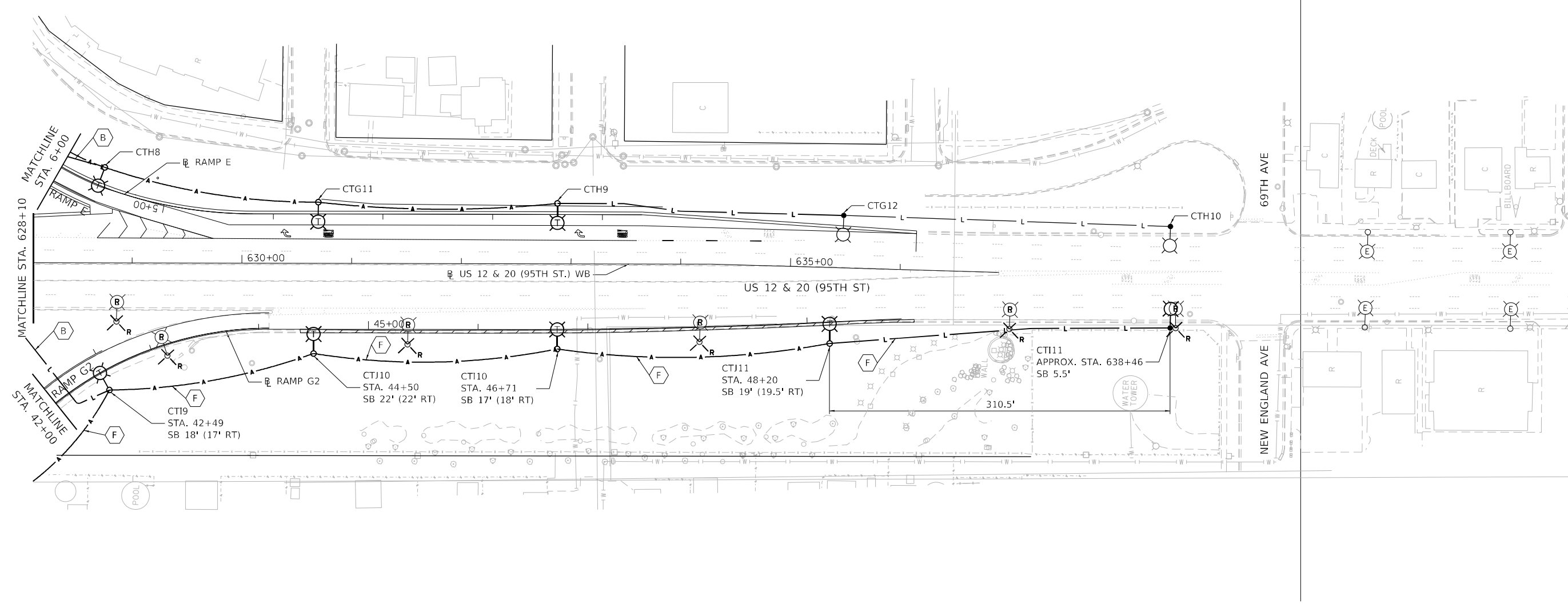
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TEMPORARY LIGHTING STAGE 1			
SCALE: 1"=50'	SHEET 5	OF 6 SHEETS	STA. 600+00 TO STA. 614+00

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 341
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



IDOT LIGHTING LOCAL LIGHTING



MODEL: Default
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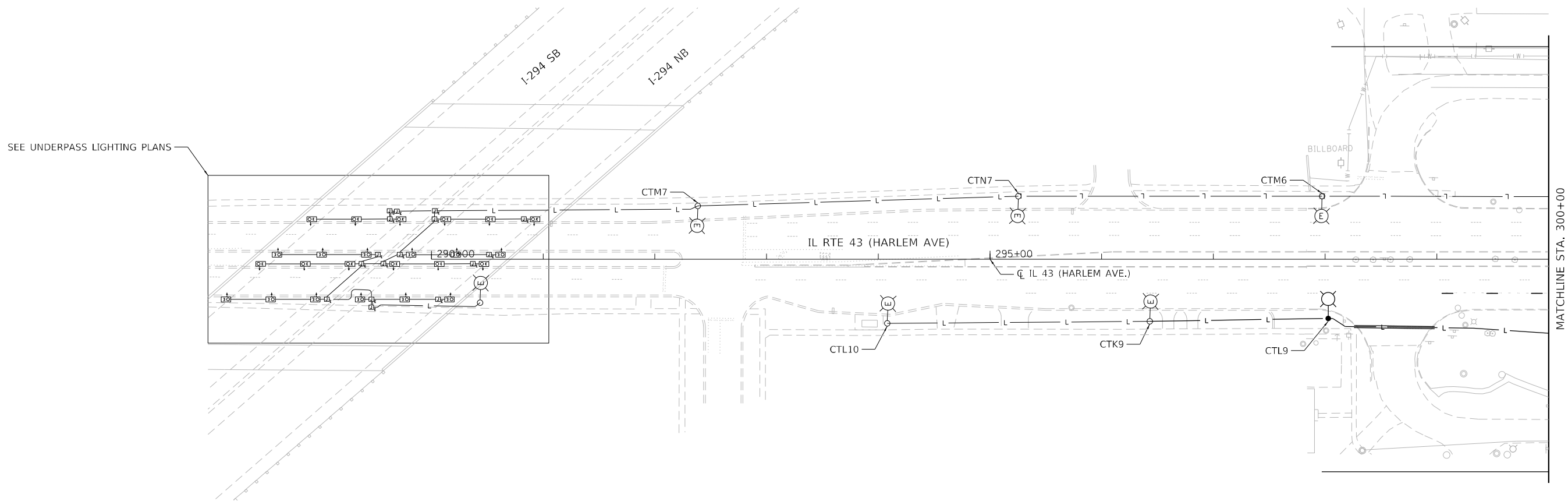
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PLOT DATE = 1/26/2024	CHECKED - NT	REVISED -
	DATE - 2024-01-26	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHTING
 STAGE 1**

SCALE: 1"=50' SHEET 6 OF 6 SHEETS STA. 628+10 TO STA. 637+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	342
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



NO LIGHTING WORK THIS SHEET



MODEL: Default
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GO GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 206
CHICAGO, ILLINOIS 60630 TEL: 773-774-590

USER NAME = brice
PLOT SCALE = 100,0000' / in.
PLOT DATE = 1/26/2024

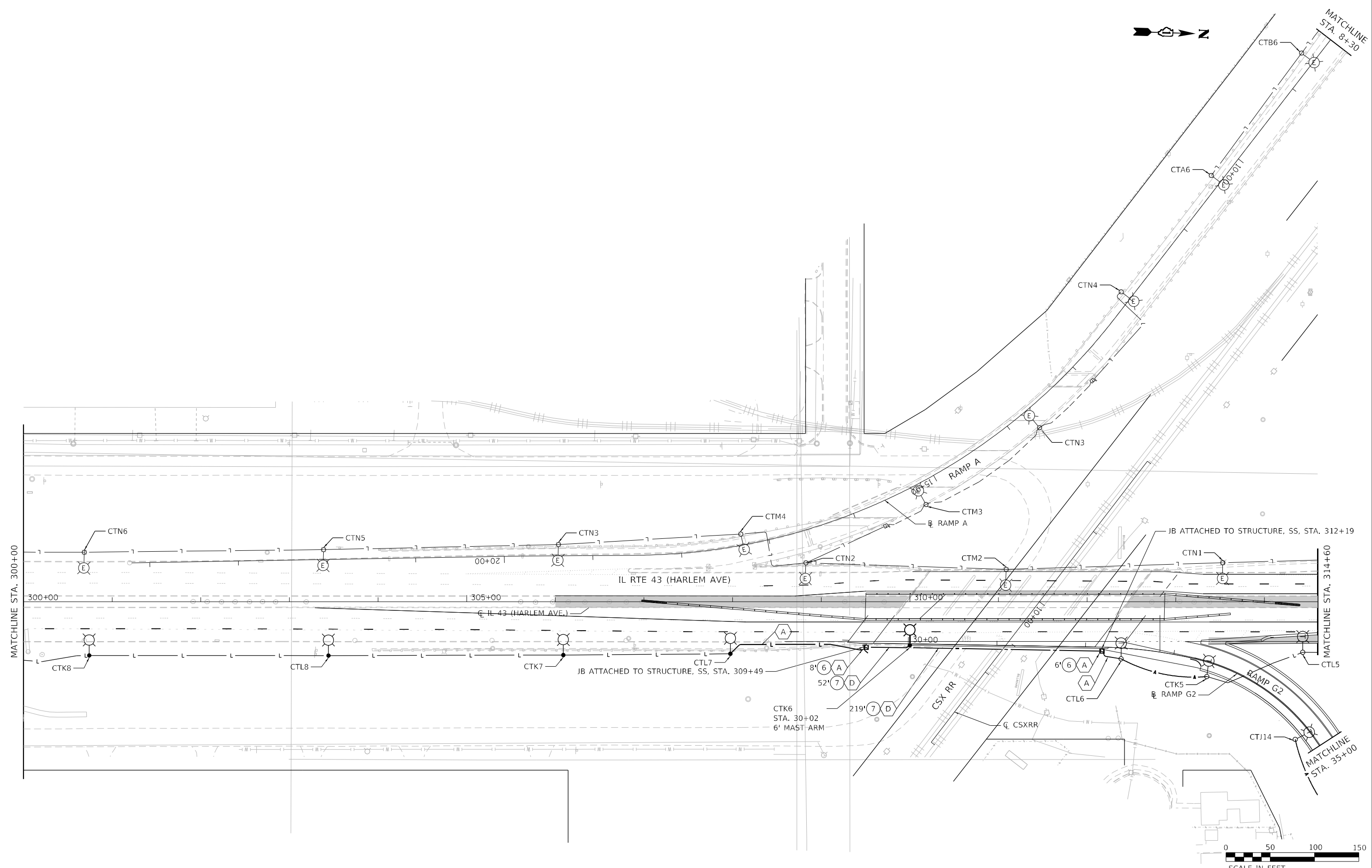
DESIGNED - MA	REVISD -
DRAWN - BR	REVISD -
CHECKED - NT	REVISD -
DATE - 2024-01-26	REVISD -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHTING
STAGE 2**

SCALE: 1"=50' SHEET 1 OF 6 SHEETS STA. 290+00 TO STA. 300+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&RS	COOK	659	343
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



MODEL: Default
 FILE NAME: C:\PROJECTS\Projects_2015\IL_Route_43.dwg US 12-20-CADD_Sheets\160849-sh-light-34.dgn


GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 6035 N. NORTHWEST HIGHWAY
 SUITE 206
 CHICAGO, ILLINOIS 60630 TEL: 773-774-5900

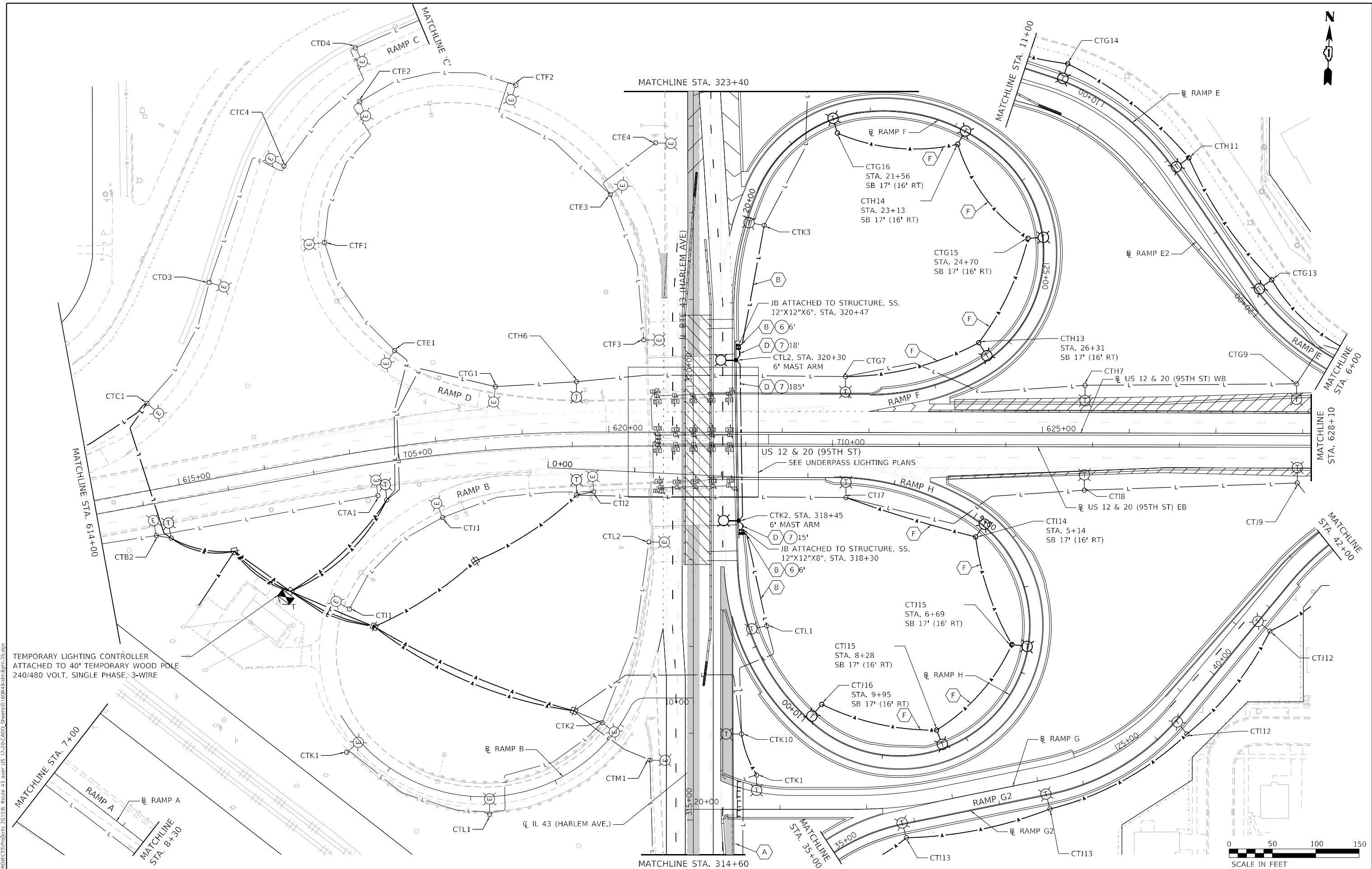
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PLOT DATE = 1/26/2024	CHECKED - NT	REVISED -
	DATE - 2024-01-26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING
STAGE 2

SCALE: 1"=50' SHEET 2 OF 6 SHEETS STA. 300+00 TO STA. 314+60

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&S	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 344
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60R49	



TEMPORARY LIGHTING CONTROLLER
ATTACHED TO 40' TEMPORARY WOOD POLE
240/480 VOLT, SINGLE PHASE, 3-WIRE



USER NAME = brice	DESIGNED - MA	REVISED -
DRAWN - BR	REVISED -	
CHECKED - NT	REVISED -	
DATE - 2024-01-26	REVISED -	
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PLOT DATE = 1/26/2024		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

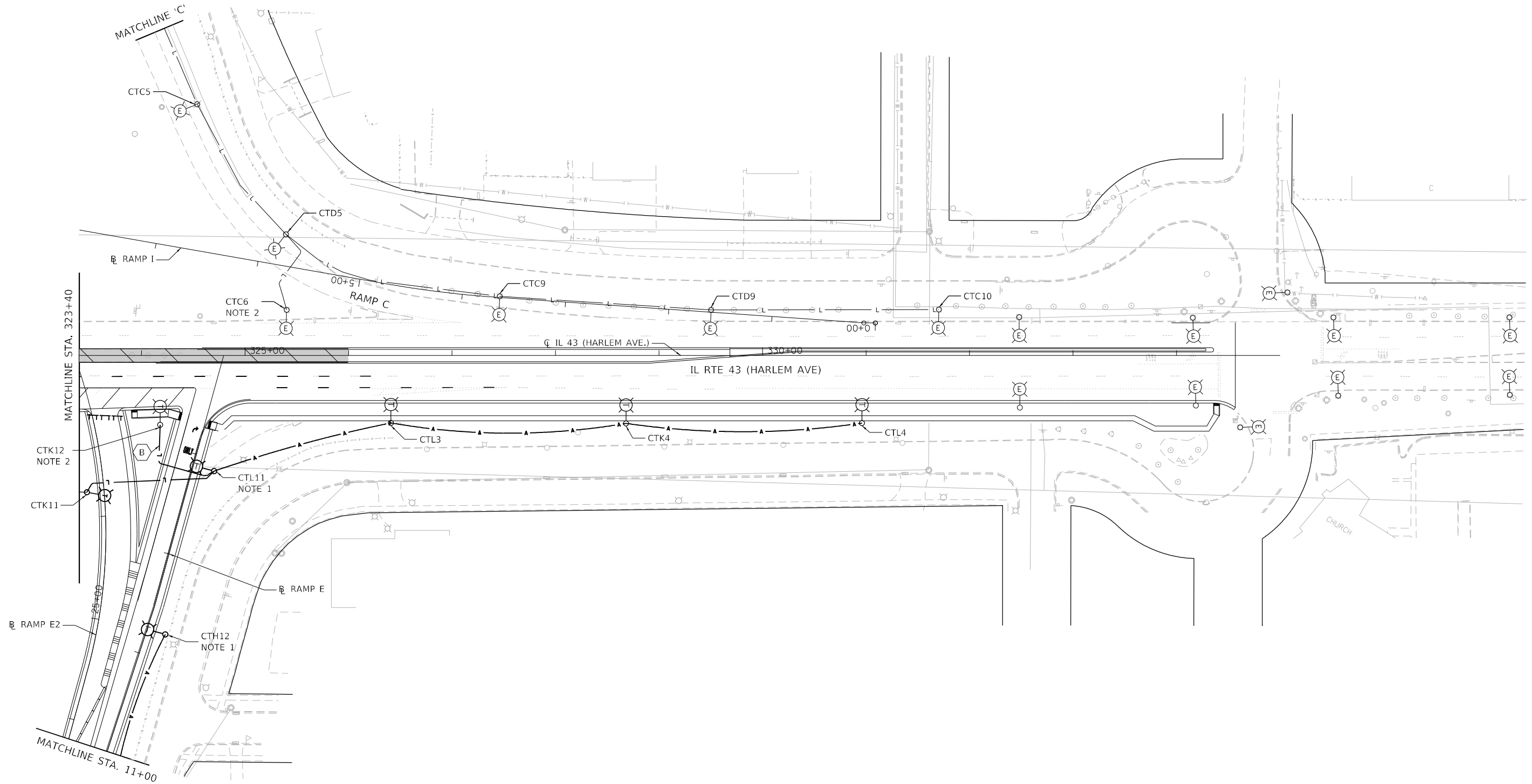
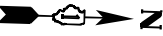
**TEMPORARY LIGHTING
STAGE 2**

SCALE: 1"=50' SHEET 3 OF 6 SHEETS STA. 314+60 TO STA. 323+40

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 345
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60R49	

NOTES:

1. DISCONNECT AND REMOVE AERIAL CABLE AND CHANGE NORTHBOUND HARLEM AVE. TEMPORARY POLES TO CIRCUITS K AND L.
2. DISCONNECT AND REMOVE TEMPORARY UNDERGROUND CABLE AND CHANGE NORTHBOUND HARLEM AVE. TEMPORARY LIGHT POLE TO CIRCUIT L.



MODEL: Default
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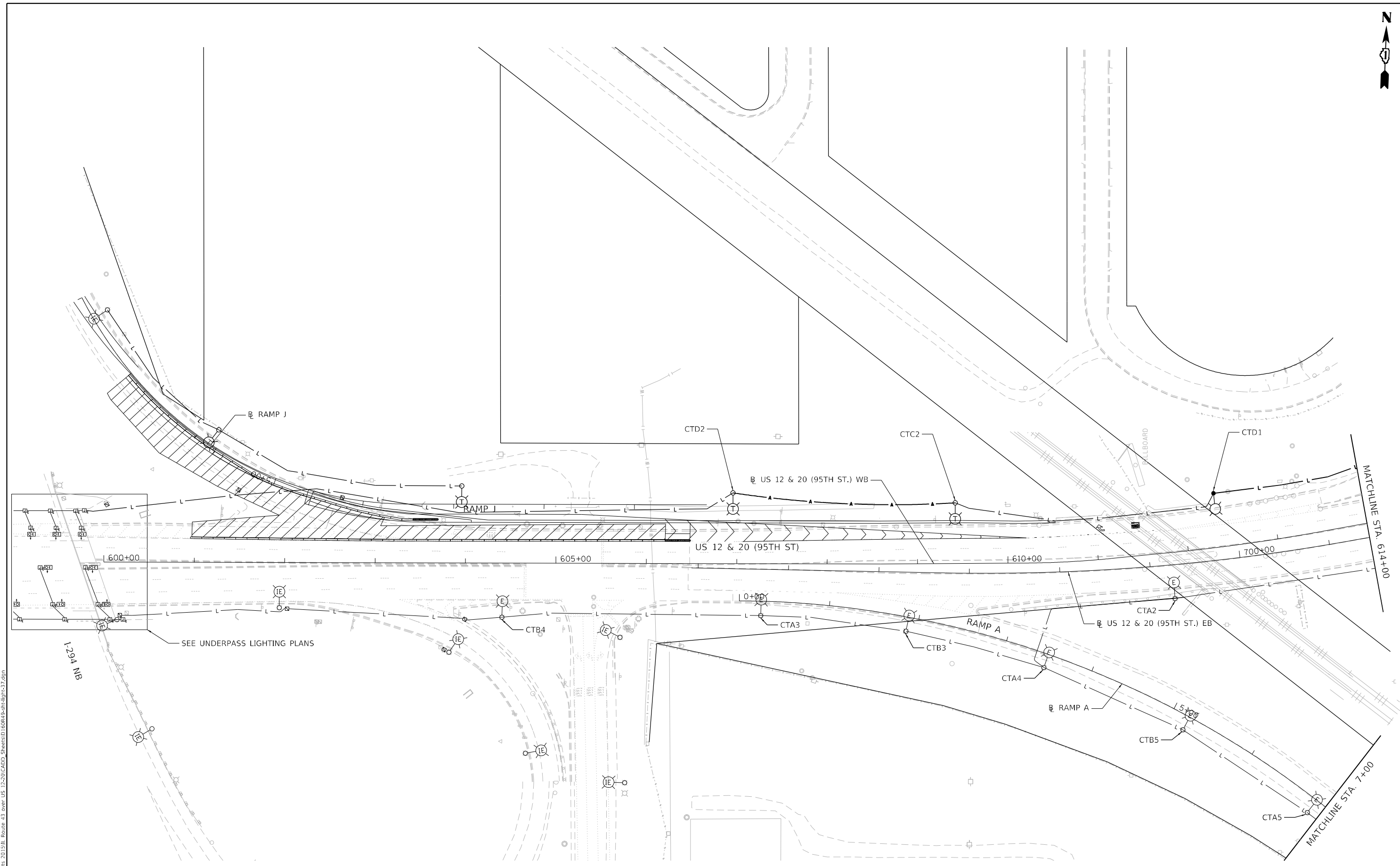
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PLOT DATE = 1/26/2024	CHECKED - NT	REVISED -
	DATE - 2024-01-26	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHTING
STAGE 2**

SCALE: 1"=50' SHEET 4 OF 6 SHEETS STA. 323+40 TO STA. 335+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	346
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



NO LIGHTING WORK THIS SHEET



MODEL: Default
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USER NAME = brice	DESIGNED - MA	REVISED -
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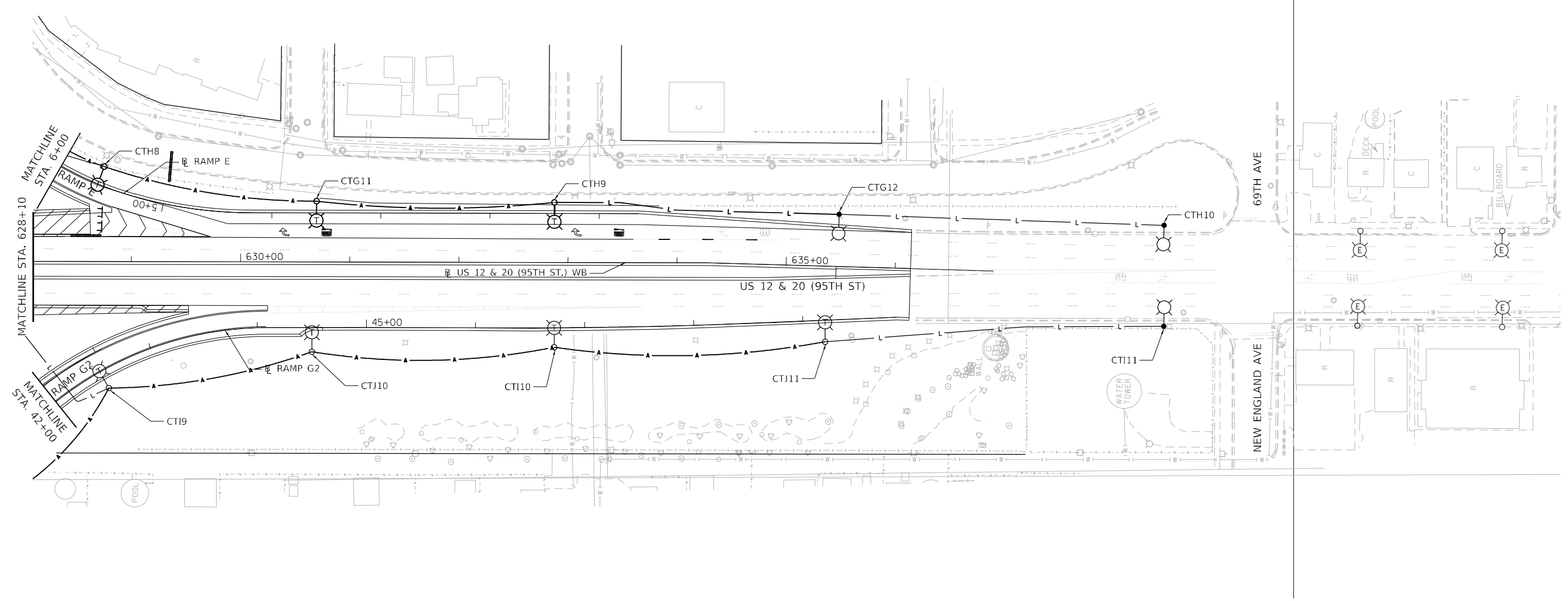
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING			
STAGE 2			
SCALE: 1"=50'	SHEET 5	OF 6 SHEETS	STA. 600+00 TO STA. 614+00

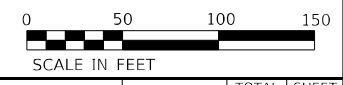
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	347
CONTRACT NO. 60R49			ILLINOIS FED. AID PROJECT	



IDOT LIGHTING LOCAL LIGHTING



NO LIGHTING WORK THIS SHEET



MODEL: Default
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PLOT DATE = 1/26/2024	DATE - 2024-01-26	REVISED -

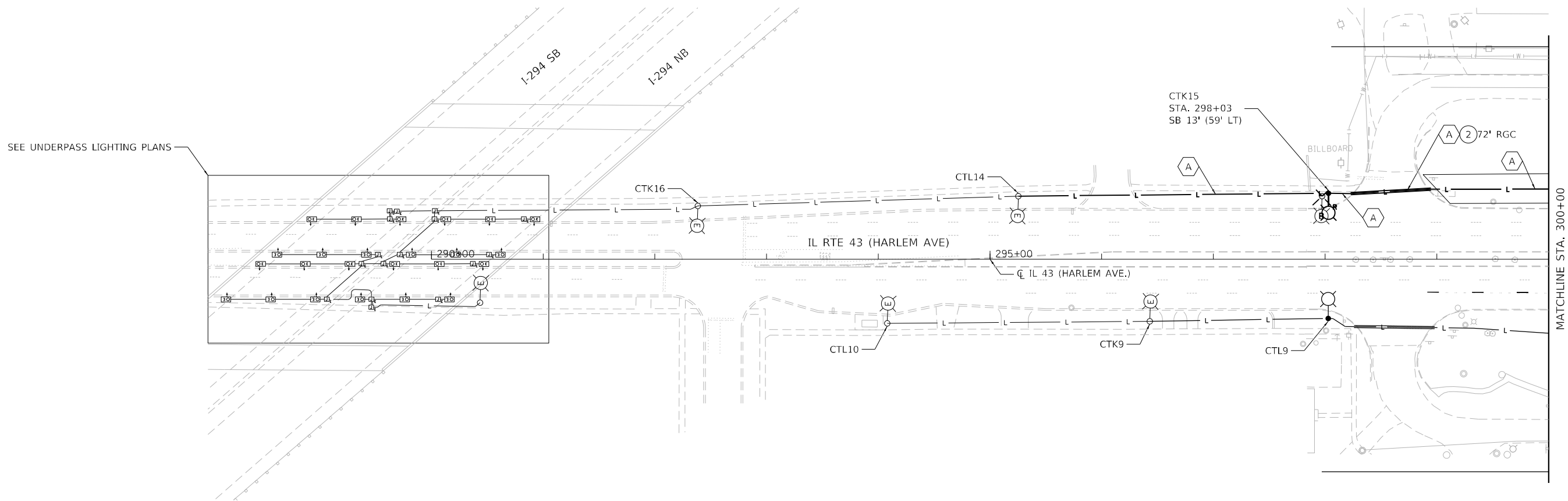
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHTING
STAGE 2**

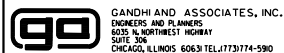
SCALE: 1"=50' SHEET 6 OF 6 SHEETS STA. 628+10 TO STA. 637+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	348
CONTRACT NO. 60R49				

ILLINOIS FED. AID PROJECT



MODEL: Default
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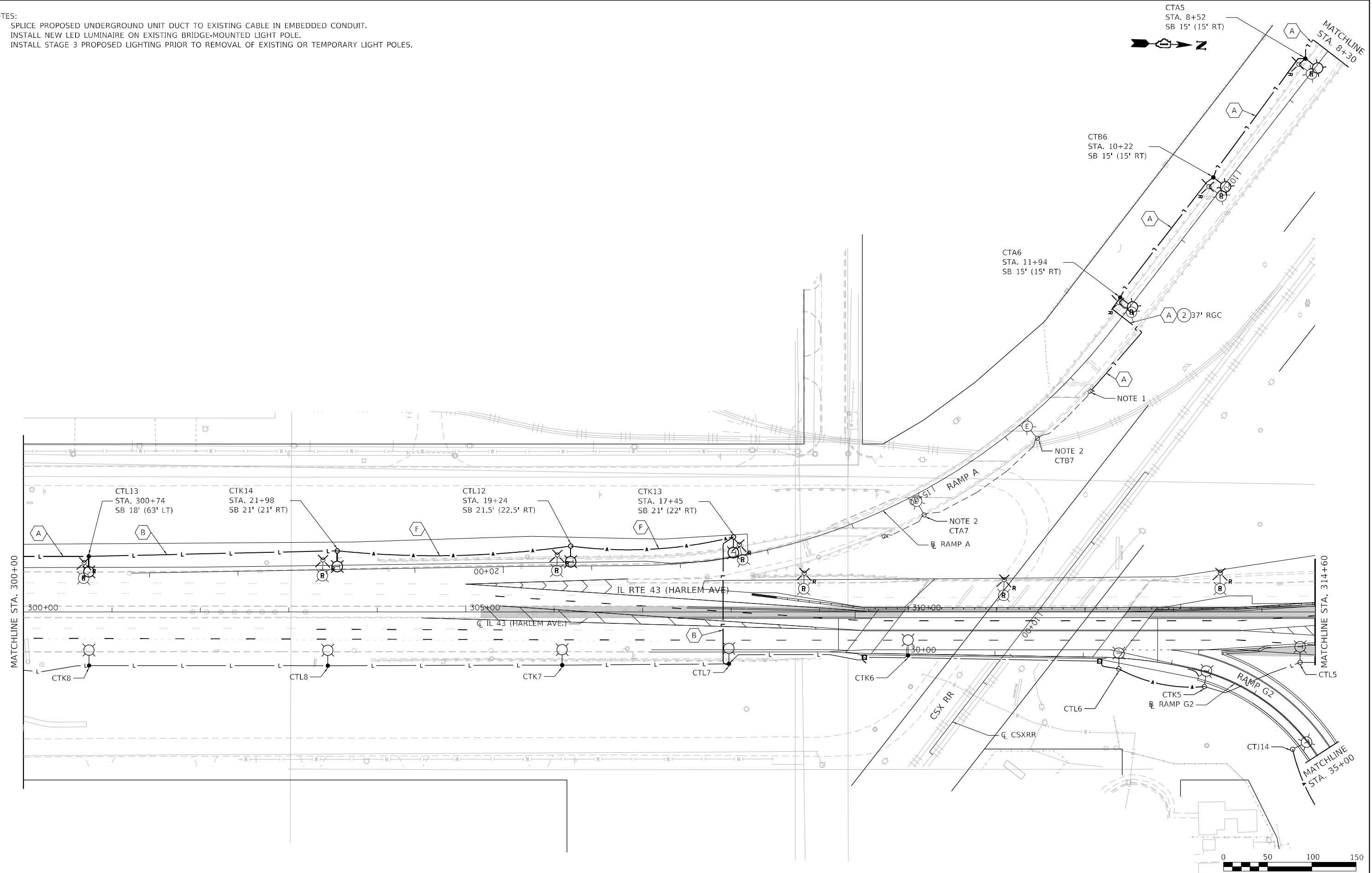
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHTING
STAGE 3**

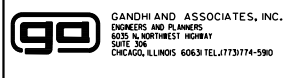
SCALE: 1"=50' SHEET 1 OF 6 SHEETS STA. 290+00 TO STA. 300+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	349
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				

- NOTES:
1. SPLICE PROPOSED UNDERGROUND UNIT DUCT TO EXISTING CABLE IN EMBEDDED CONDUIT.
 2. INSTALL NEW LED LUMINAIRE ON EXISTING BRIDGE-MOUNTED LIGHT POLE.
 3. INSTALL STAGE 3 PROPOSED LIGHTING PRIOR TO REMOVAL OF EXISTING OR TEMPORARY LIGHT POLES.



MODEL: Default
 FILE NAME: C:\PROJECTS\Projects 2015\IL Route 43.dwg US 12-20-CADD-Sheets\160R49-sh-light-40.dwg
 PROJECT: ILLINOIS ROUTE 43
 SHEET: 29 OF 348



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	DATE - 2024-01-26	REVISED -

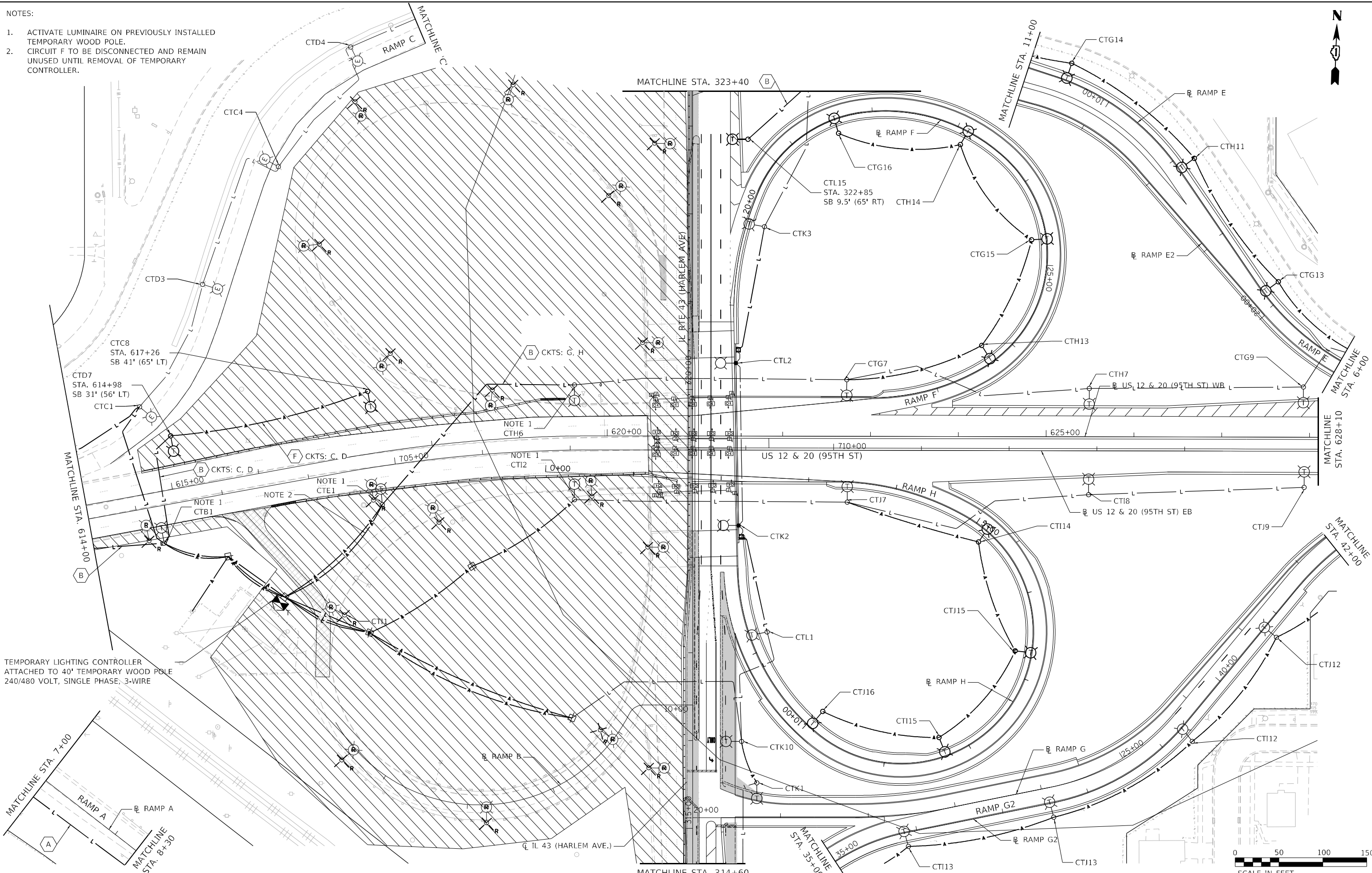
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY LIGHTING STAGE 3		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		29 & 348	3128-Z-I-R&S	COOK	659	350
SCALE: 1"=50'		SHEET 2 OF 6 SHEETS		STA. 300+00 TO STA. 314+60		CONTRACT NO. 60R49
				ILLINOIS FED. AID PROJECT		

SCALE IN FEET	
0	50 100 150

NOTES:

1. ACTIVATE LUMINAIRE ON PREVIOUSLY INSTALLED TEMPORARY WOOD POLE.
2. CIRCUIT F TO BE DISCONNECTED AND REMAIN UNUSED UNTIL REMOVAL OF TEMPORARY CONTROLLER.



TEMPORARY LIGHTING CONTROLLER ATTACHED TO 40' TEMPORARY WOOD POLE 240/480 VOLT, SINGLE PHASE, 3-WIRE

MODEL: Default
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PLOT DATE	= 1/26/2024

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DRAWN	- BR
CHECKED	- NT
DATE	- 2024-01-26

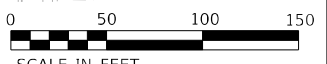
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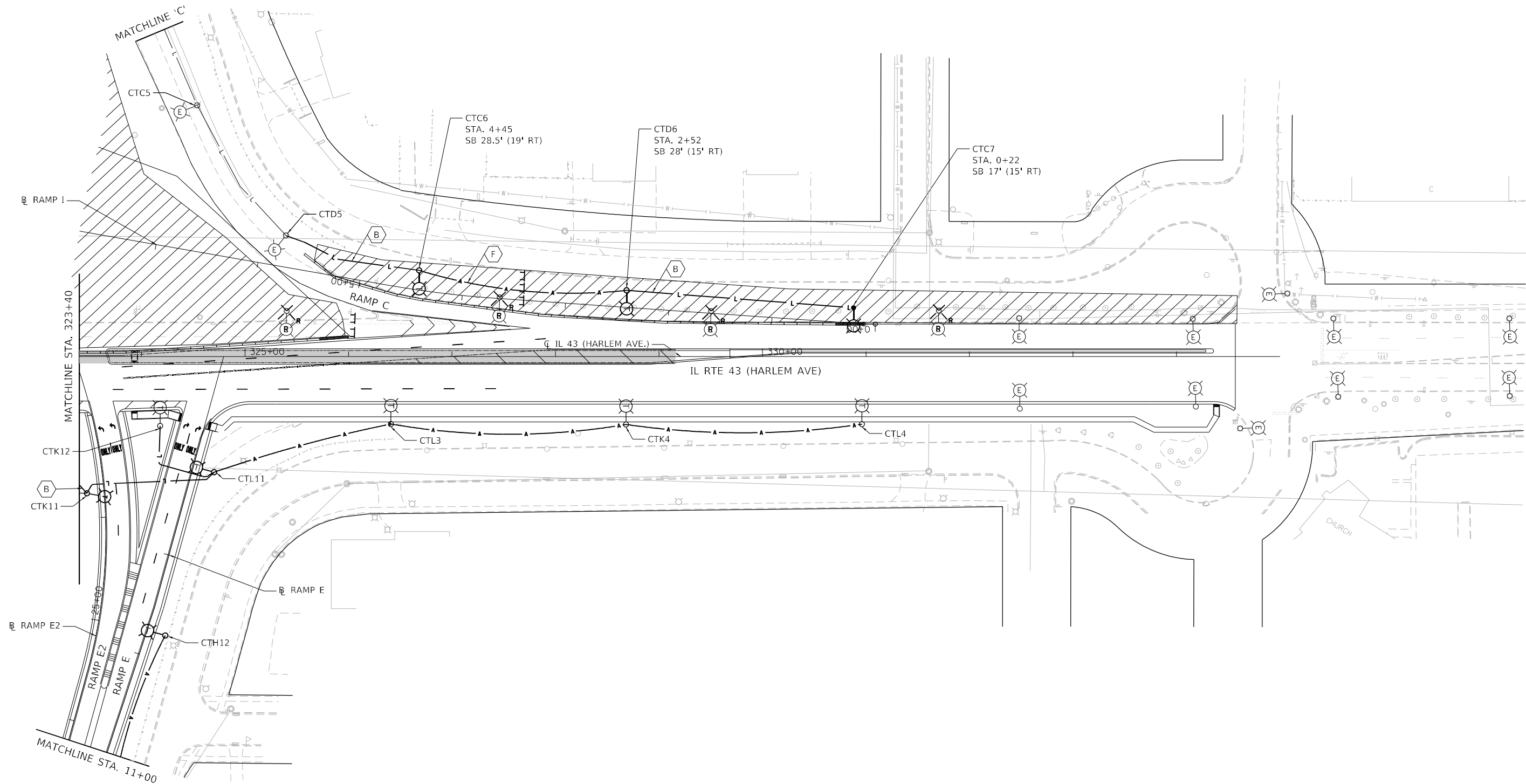
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: 1"=50'	SHEET 3	OF 6 SHEETS	STA. 314+60	TO STA. 323+40
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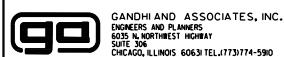
TEMPORARY LIGHTING
STAGE 3

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	351
CONTRACT NO. 60R49			ILLINOIS FED. AID PROJECT	





MODEL: Default
 FILE NAME: C:\PROJECTS\Projects\2015\IL_Route_43.dwg US 12-30-CADD_Sheets\160R49-sh-light-43.dgn
 PROJECT: ILLINOIS DEPARTMENT OF TRANSPORTATION



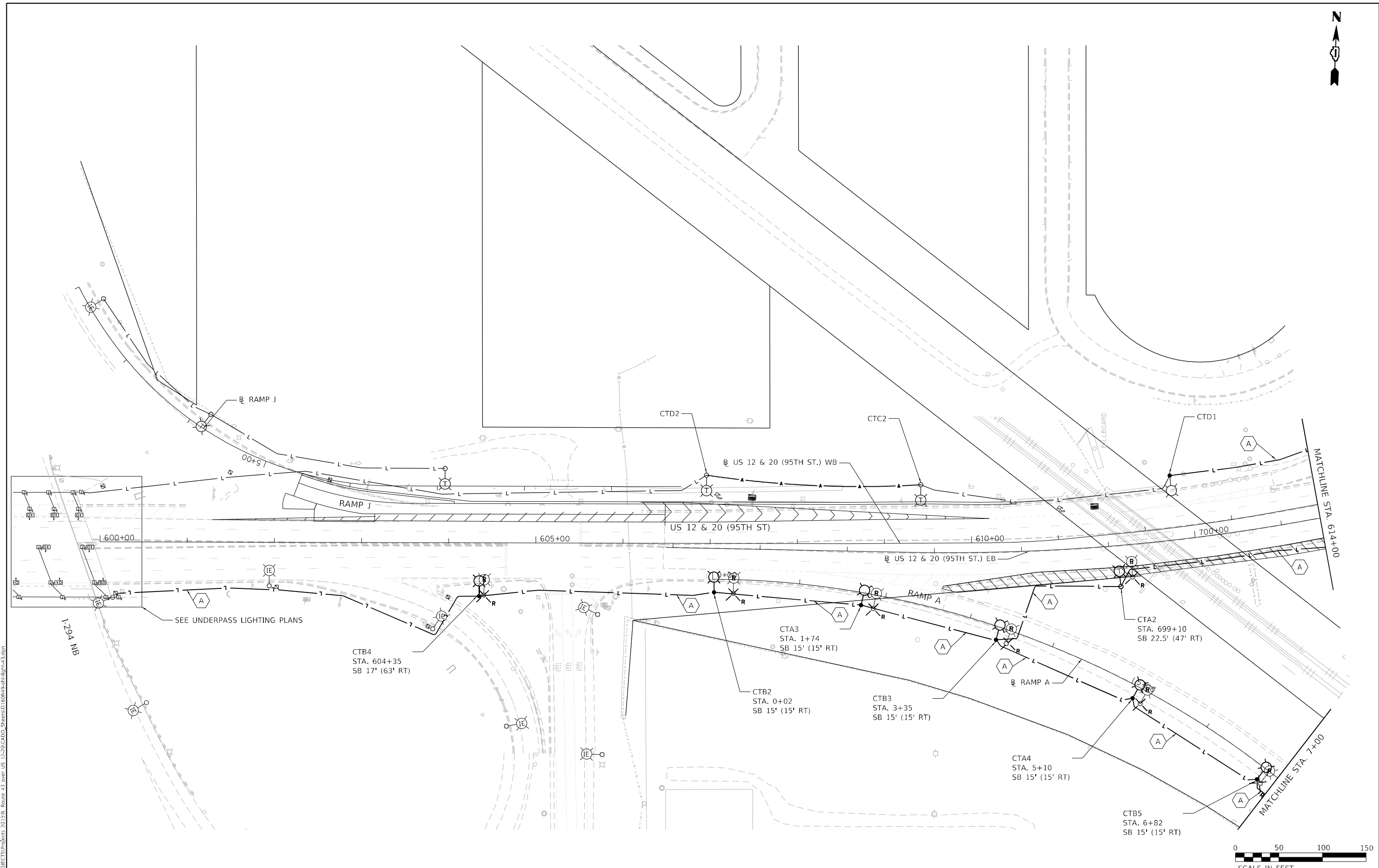
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	DATE - 2024-01-26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING
STAGE 3

SCALE: 1"=50' SHEET 4 OF 6 SHEETS STA. 323+40 TO STA. 335+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	352
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



MODEL: Default
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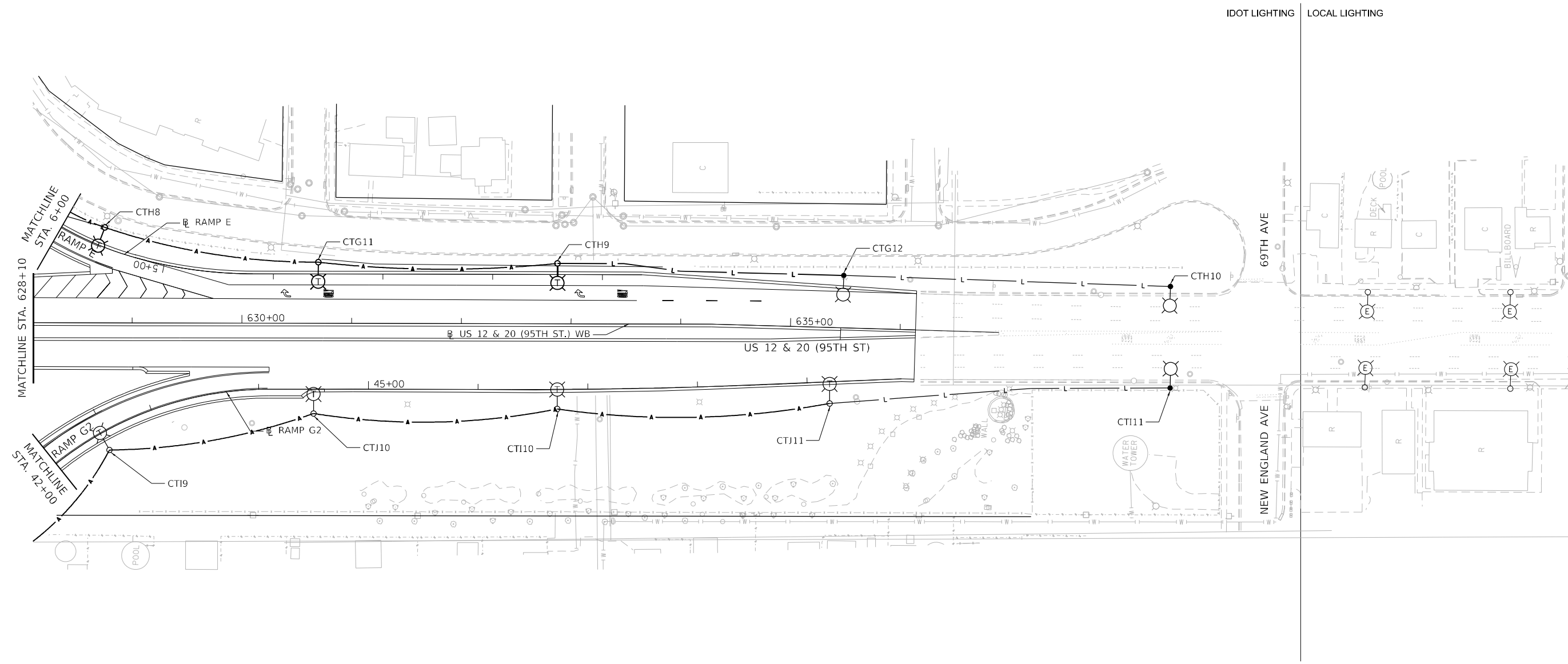
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

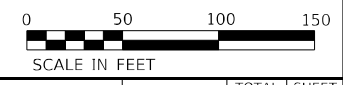
TEMPORARY LIGHTING
STAGE 3

SCALE: 1"=50' SHEET 5 OF 6 SHEETS STA. 600+00 TO STA. 614+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	353
CONTRACT NO. 60R49			ILLINOIS FED. AID PROJECT	



NO LIGHTING WORK THIS SHEET



MODEL: Default
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	DATE - 2024-01-26	REVISED -

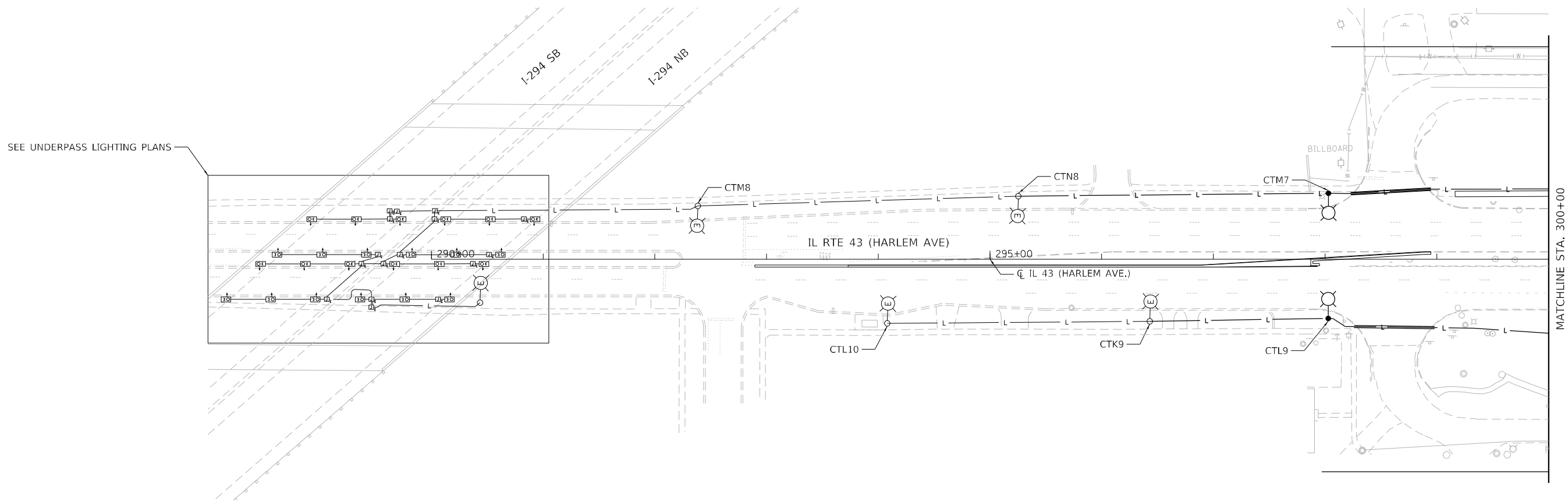
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHTING
STAGE 3**

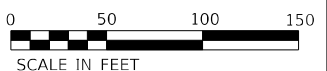
SCALE: 1"=50' SHEET 6 OF 6 SHEETS STA. 628+10 TO STA. 637+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	354
CONTRACT NO. 60R49				

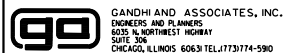
ILLINOIS FED. AID PROJECT



NO LIGHTING WORK THIS SHEET



MODEL: Default
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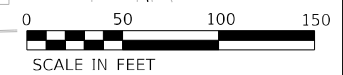
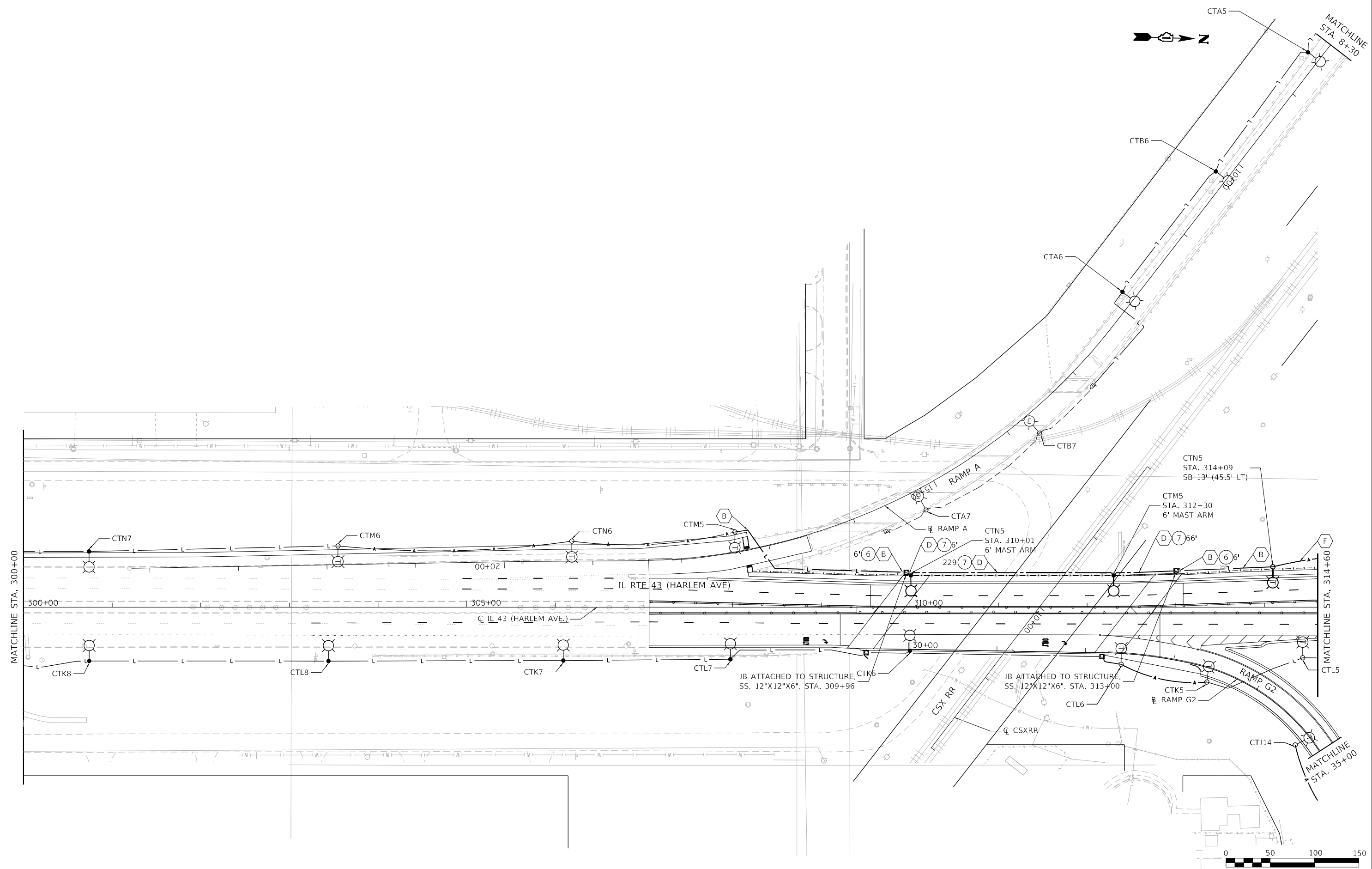
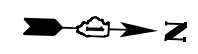
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	DRAWN - BR	REVISED -
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PLOT DATE = 1/26/2024	DATE - 2024-01-26	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHTING
STAGE 4**

SCALE: 1"=50' SHEET 1 OF 6 SHEETS STA. 290+00 TO STA. 300+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	355
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



MODEL: Default
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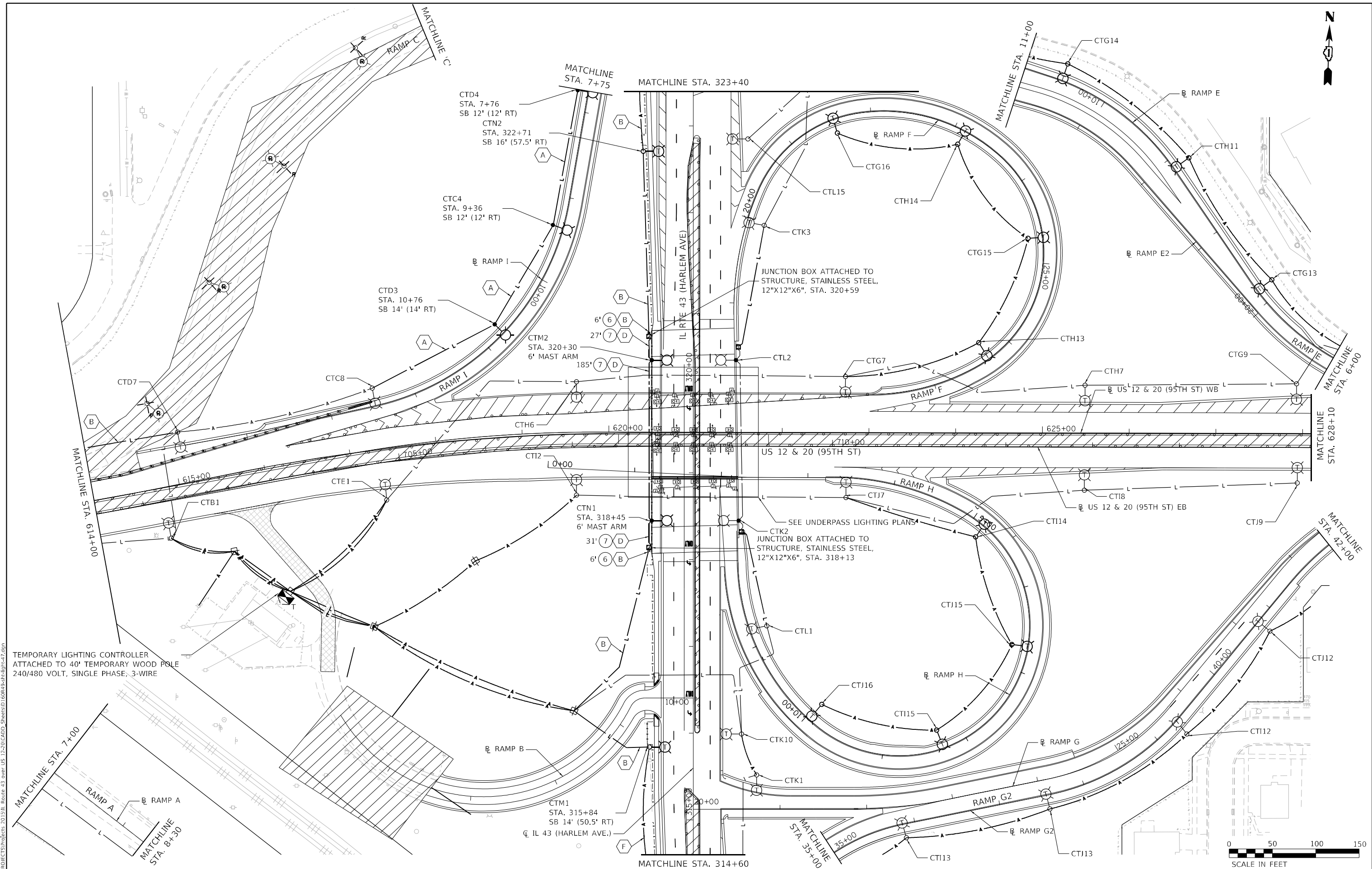
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PLOT SCALE = 100,0000' / in.	DRAWN - BR	REVISED -
PLOT DATE = 1/26/2024	CHECKED - NT	REVISED -
	DATE - 2024-01-26	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHTING
 STAGE 4**

SCALE: 1"=50' SHEET 2 OF 6 SHEETS STA. 300+00 TO STA. 314+60

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 356
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60R49	



TEMPORARY LIGHTING CONTROLLER
 ATTACHED TO 40' TEMPORARY WOOD POLE
 240/480 VOLT, SINGLE PHASE, 3-WIRE



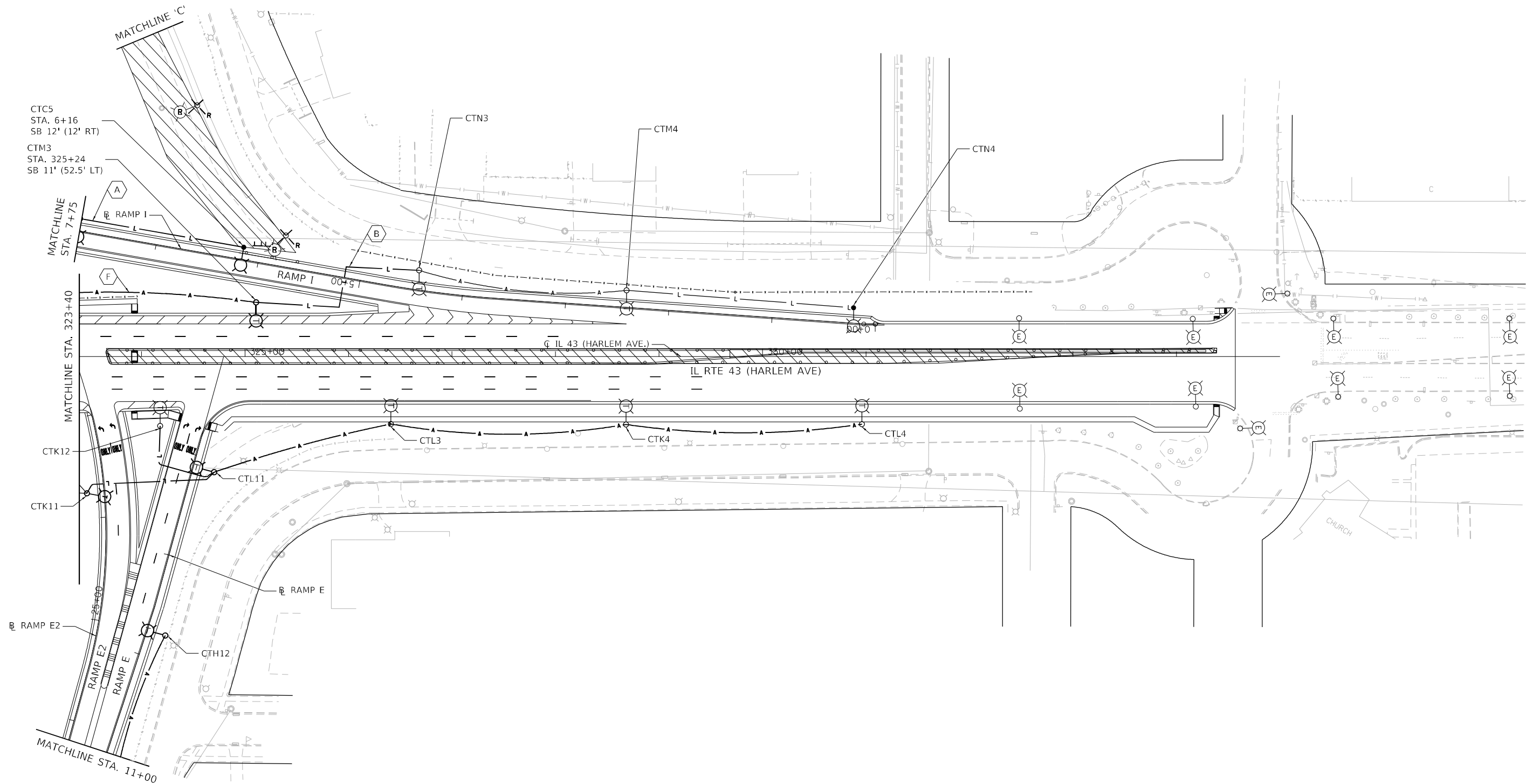
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DRAWN - BR	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - NT	REVISED -
PLOT DATE = 1/26/2024	DATE - 2024-01-26	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

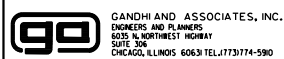
**TEMPORARY LIGHTING
 STAGE 4**

SCALE: 1"=50'
 SHEET 3 OF 6 SHEETS
 STA. 314+60 TO STA. 323+40

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 357
CONTRACT NO. 60R49			ILLINOIS FED. AID PROJECT	



MODEL: Default
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 GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 6035 N. NORTHWEST HIGHWAY
 SUITE 308
 CHICAGO, ILLINOIS 60630 TEL: 773-774-5900



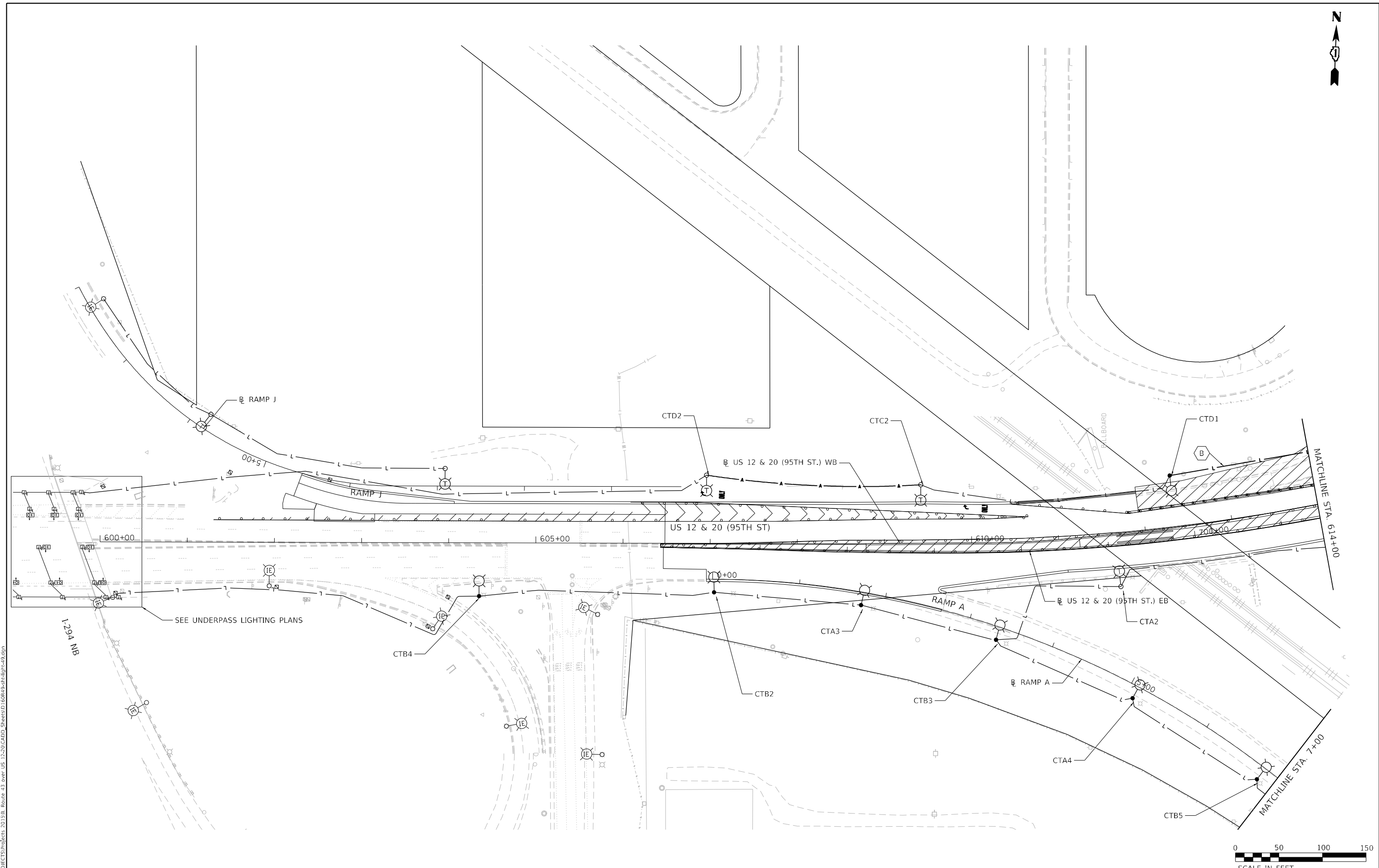
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PLOT DATE = 1/26/2024	CHECKED - NT	REVISED -
	DATE - 2024-01-26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING
STAGE 4

SCALE: 1"=50' SHEET 4 OF 6 SHEETS STA. 323+40 TO STA. 335+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	358
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



MODEL: Default
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 PROJECT: 31128-Z-I-R&S

GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 6035 N. NORTHWEST HIGHWAY
 SUITE 204
 CHICAGO, ILLINOIS 60630 TEL: 773-774-5900

USER NAME = brice	DESIGNED - MA	REVISED -
DRAWN - BR	REVISOR -	
PLOT SCALE = 100,0000' / in.	CHECKED - NT	REVISED -
PLOT DATE = 1/26/2024	DATE - 2024-01-26	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

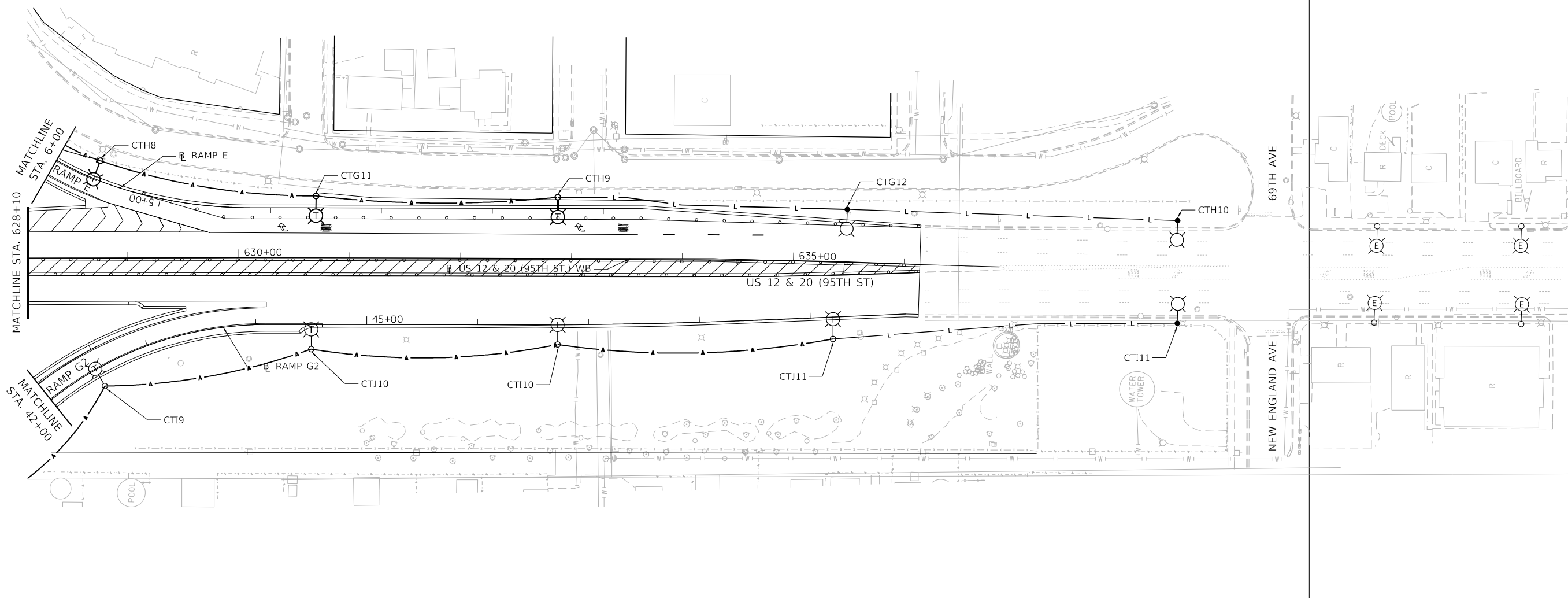
TEMPORARY LIGHTING
STAGE 4

SCALE: 1"=50' SHEET 5 OF 6 SHEETS STA. 600+00 TO STA. 614+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	359
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



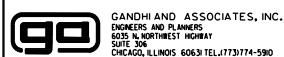
IDOT LIGHTING LOCAL LIGHTING



NO LIGHTING WORK THIS SHEET



MODEL: Default
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GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 6035 N. NORTHWEST HIGHWAY
 SUITE 206
 CHICAGO, ILLINOIS 60630 TEL: 773-774-590

USER NAME = brice
 DESIGNED - MA
 DRAWN - BR
 CHECKED - NT
 DATE - 2024-01-26

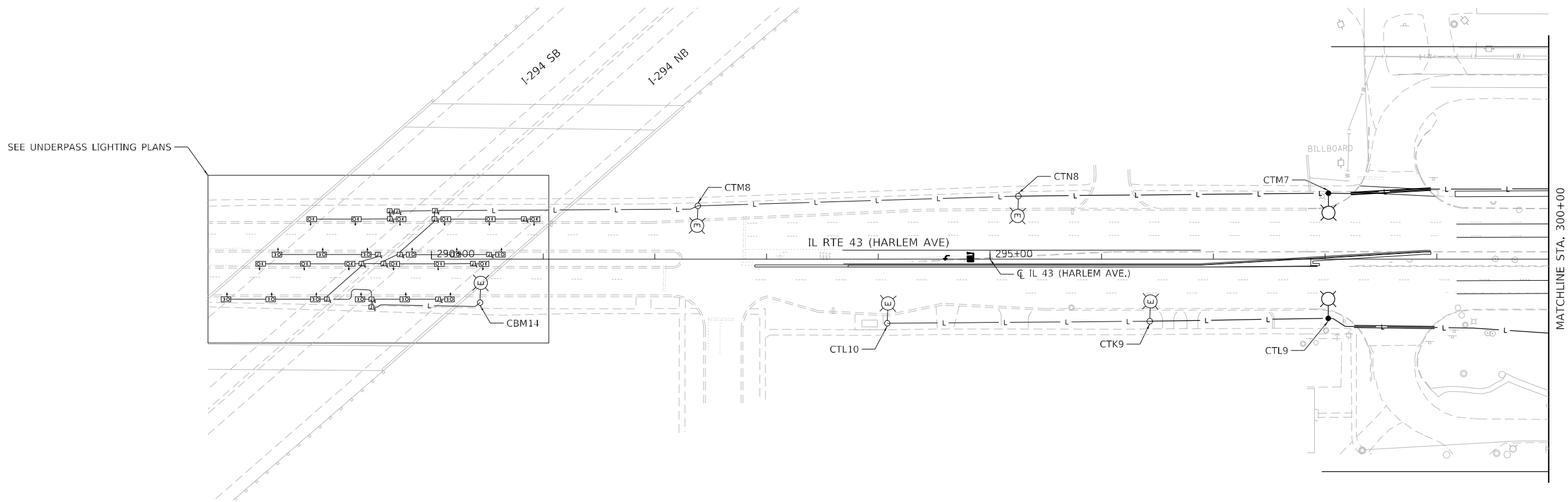
REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING
STAGE 4

SCALE: 1"=50' SHEET 6 OF 6 SHEETS STA. 628+10 TO STA. 637+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	360
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				

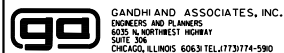


NO LIGHTING WORK THIS SHEET



SCALE IN FEET

MODEL: Default
FILE NAME: C:\PROJECTS\Projects 2015\IL Route 43 over US 129\02\ADD_Sheets\160R49-sh-light-51.dgn



USER NAME = brice	DESIGNED - MA	REVISED -
DRAWN - BR	REVISOR -	
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PLOT DATE = 1/26/2024	DATE - 2024-01-26	REVISED -

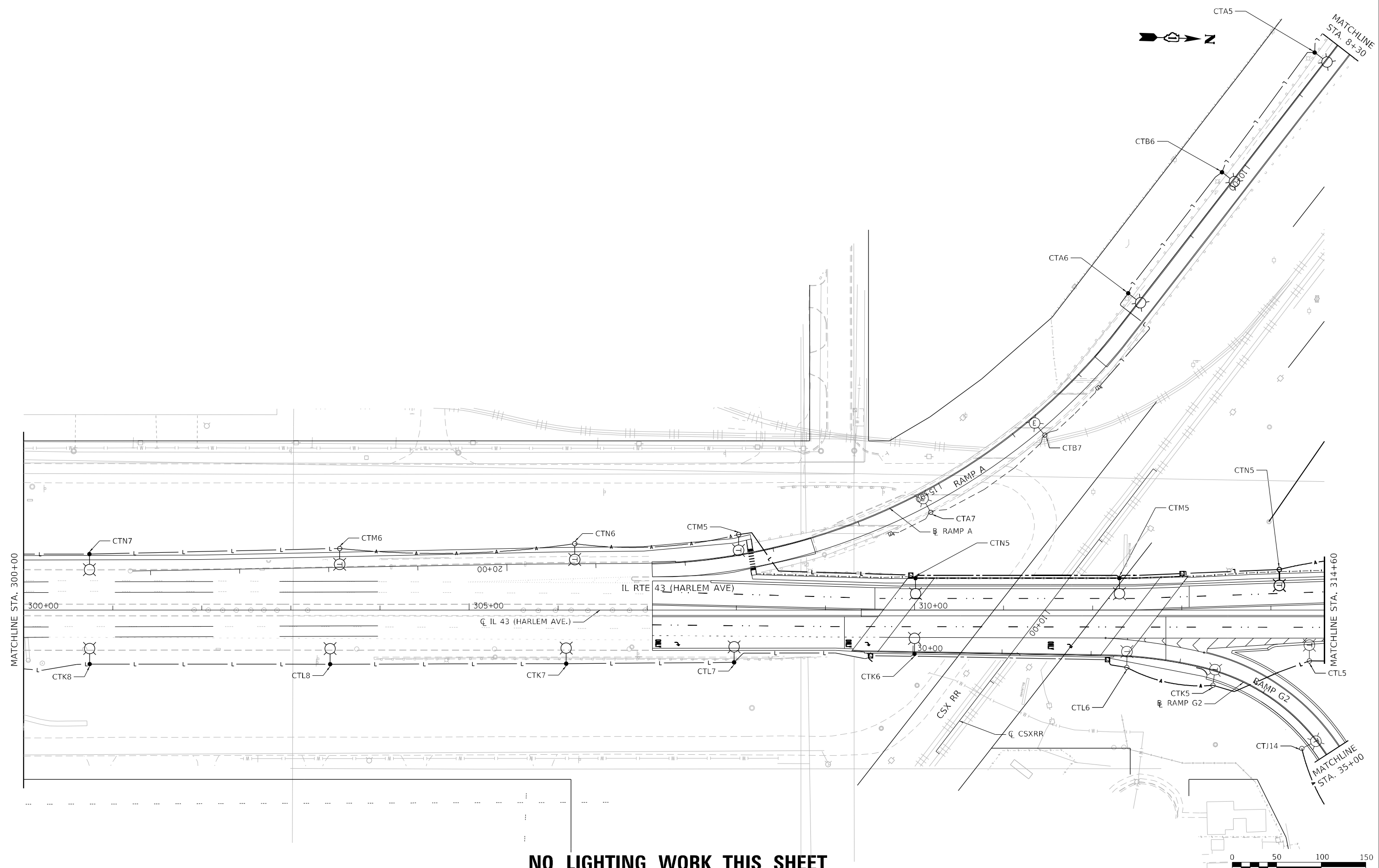
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHTING
STAGE 5**

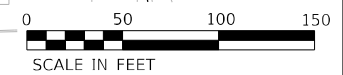
SCALE: 1"=50' SHEET 1 OF 6 SHEETS STA. 290+00 TO STA. 300+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	361
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				

MATCHLINE STA. 8+30



NO LIGHTING WORK THIS SHEET



MODEL: Default
 FILE NAME: C:\PROJECTS\Projects 2015\IL Route 43.dwg US 12-20-CADD-Sheets\160R49-sh-light-52.dgn



USER NAME = brice	DESIGNED - MA	REVISED -
	DRAWN - BR	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - NT	REVISED -
PLOT DATE = 1/26/2024	DATE - 2024-01-26	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

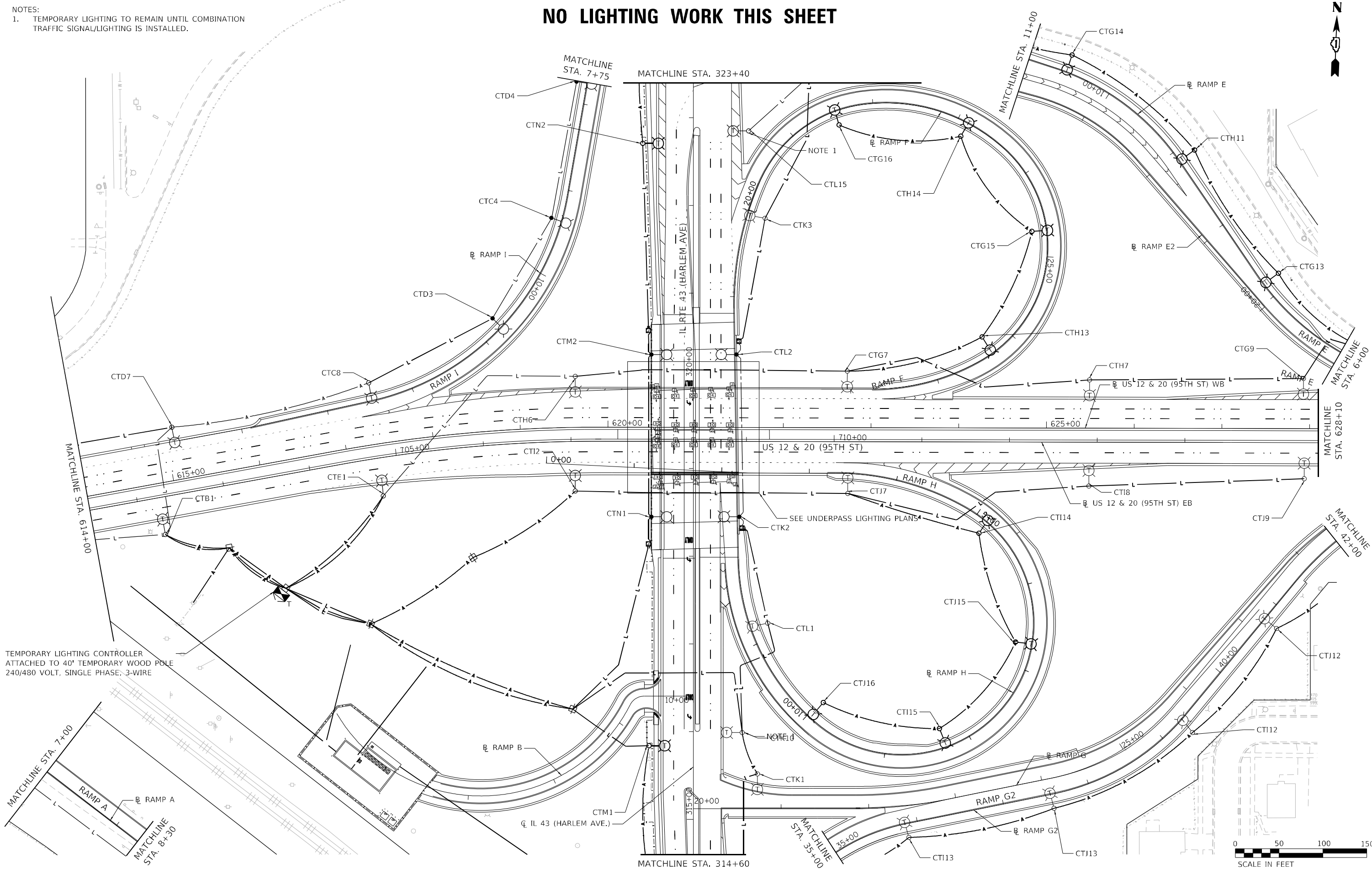
**TEMPORARY LIGHTING
STAGE 5**

SCALE: 1"=50' SHEET 2 OF 6 SHEETS STA. 300+00 TO STA. 314+60

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	362
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				

NOTES:
 1. TEMPORARY LIGHTING TO REMAIN UNTIL COMBINATION TRAFFIC SIGNAL/LIGHTING IS INSTALLED.

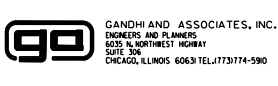
NO LIGHTING WORK THIS SHEET



TEMPORARY LIGHTING CONTROLLER ATTACHED TO 40' TEMPORARY WOOD POLE 240/480 VOLT, SINGLE PHASE, 3-WIRE



MODEL: Default
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USER NAME = brice	DESIGNED - MA	REVISED -
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PLOT DATE = 1/26/2024	DATE - 2024-01-26	REVISED -

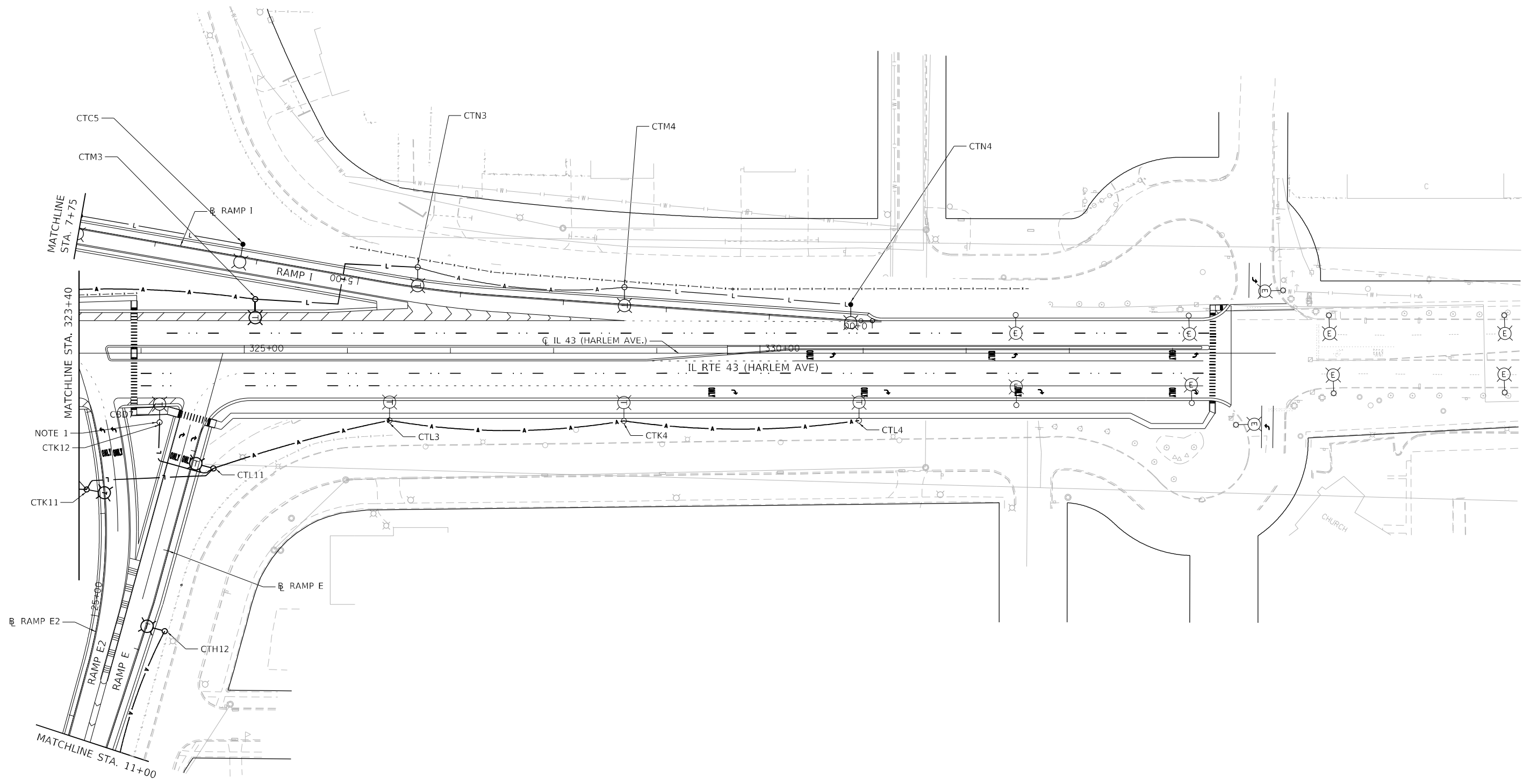
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING
 STAGE 5

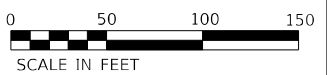
SCALE: 1"=50' SHEET 3 OF 6 SHEETS STA. 314+60 TO STA. 323+40

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&S	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 363
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				

NOTES:
 1. TEMPORARY LIGHTING TO REMAIN IN PLACE UNTIL COMBINATION TRAFFIC SIGNAL/LIGHTING IS INSTALLED.



NO LIGHTING WORK THIS SHEET



MODEL: Default
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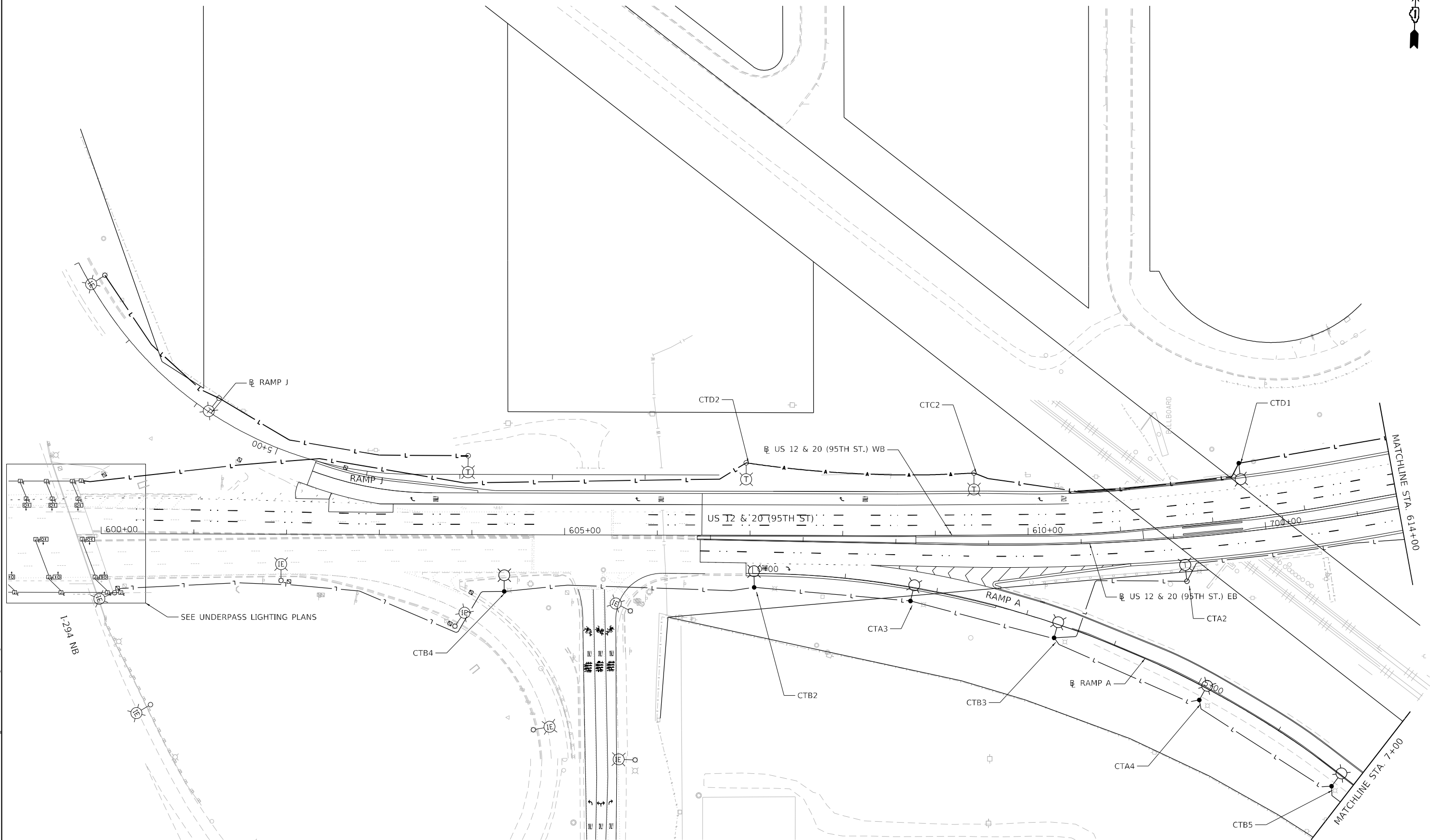
USER NAME = brice	DESIGNED - MA	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - BR	REVISED -
PLOT DATE = 1/26/2024	CHECKED - NT	REVISED -
	DATE - 2024-01-26	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHTING
 STAGE 5**

SCALE: 1"=50' SHEET 4 OF 6 SHEETS STA. 323+40 TO STA. 335+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	364
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



SEE UNDERPASS LIGHTING PLANS

NO LIGHTING WORK THIS SHEET



MODEL: Default
 FILE NAME: C:\PROJECTS\Projects_2015\IL_Route 43 over US 12-20\CAD\Drawings\Sheet\Lighting\LT-55.dgn
 PROJECT: 3128-Z-I-R&S



USER NAME = brice	DESIGNED - MA	REVISED -
DRAWN - BR	REVISOR -	REVISOR -
PLOT SCALE = 100,0000' / in.	CHECKED - NT	REVISOR -
PLOT DATE = 1/26/2024	DATE - 2024-01-26	REVISOR -

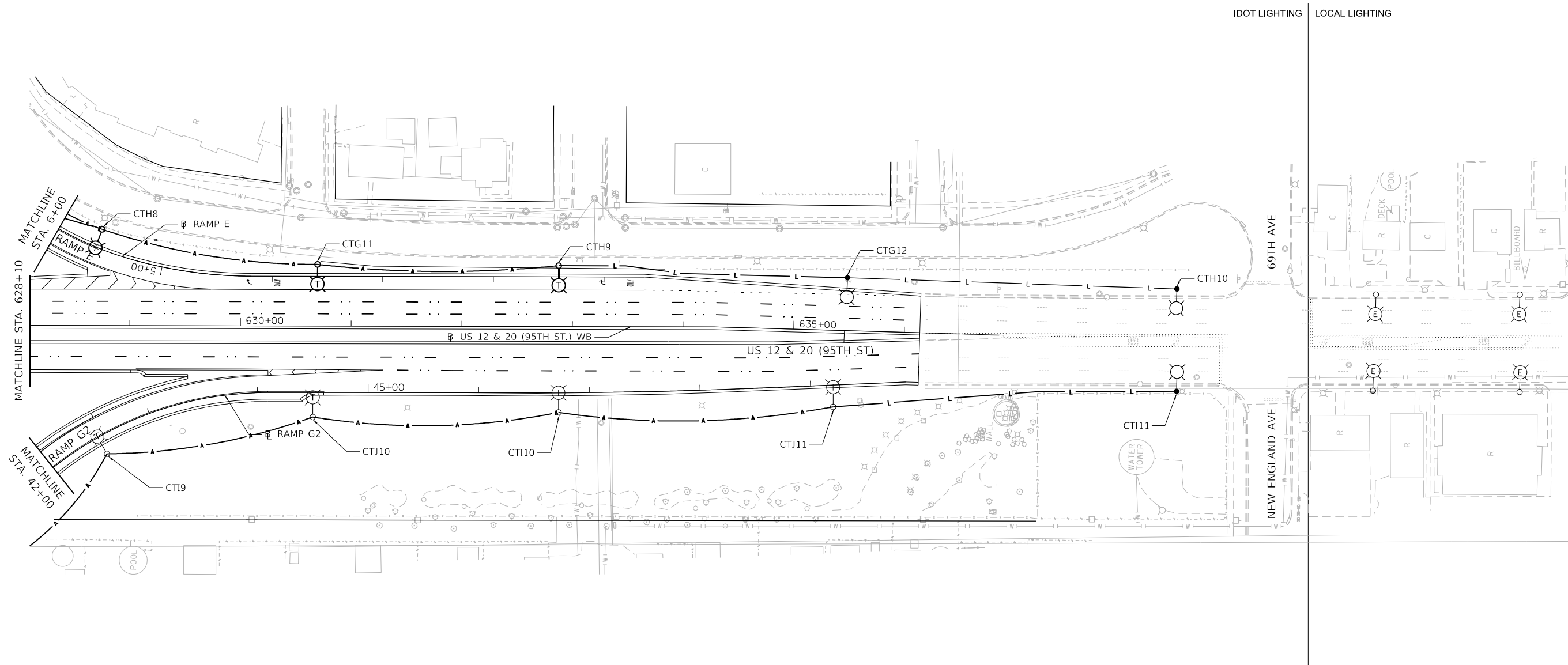
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHTING
STAGE 5**

SCALE: 1"=50' SHEET 5 OF 6 SHEETS STA. 600+00 TO STA. 614+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	365
CONTRACT NO. 60R49				

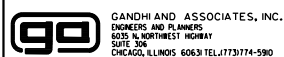
ILLINOIS FED. AID PROJECT



NO LIGHTING WORK THIS SHEET



MODEL: Default
 FILE NAME: C:\PROJECTS\Projects_2015\IL_Route 43 over US 12-20\CADD_Sheets\ID 160849-sh-light-56.dgn



GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 6015 N. NORTHWEST HIGHWAY
 SUITE 206
 CHICAGO, ILLINOIS 60630 TEL: 773-774-590

USER NAME = brice
 DESIGNED - MA
 DRAWN - BR
 CHECKED - NT
 DATE - 2024-01-26

REVISED -
 REVISED -
 REVISED -
 REVISED -

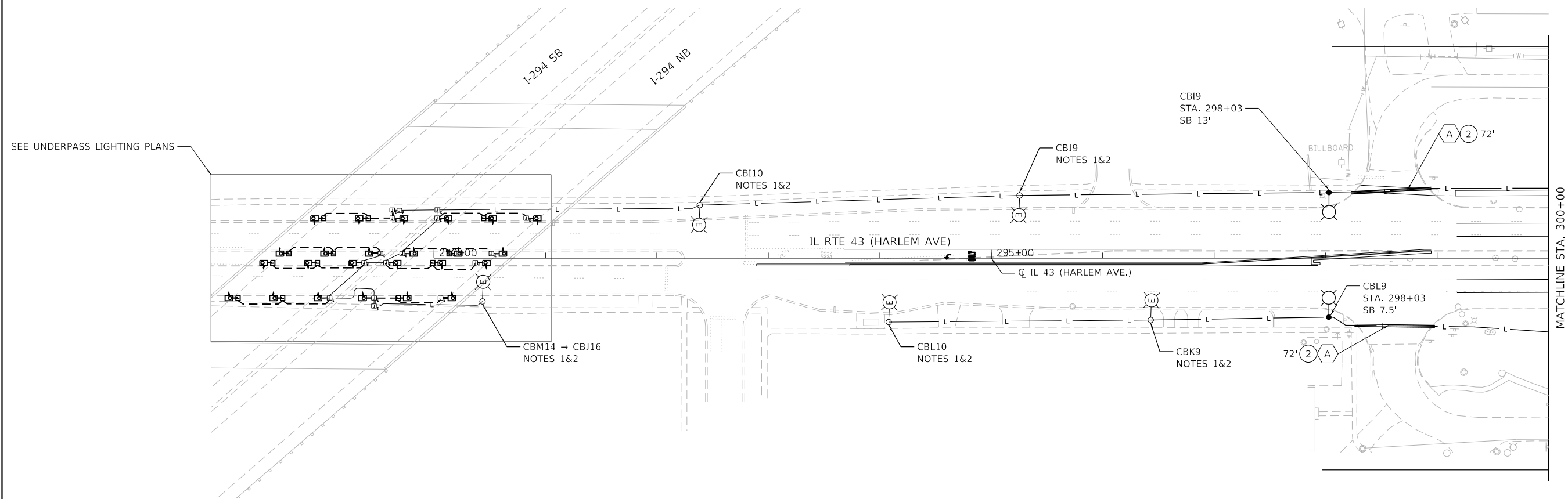
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY LIGHTING
STAGE 5

SCALE: 1"=50' SHEET 6 OF 6 SHEETS STA. 628+10 TO STA. 637+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	366
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				

- NOTES:
1. CHANGE CIRCUIT LABEL ON EXISTING POLE AS INDICATED.
 2. REPLACE EXISTING LUMINAIRE WITH NEW LED TYPE LUMINAIRE.



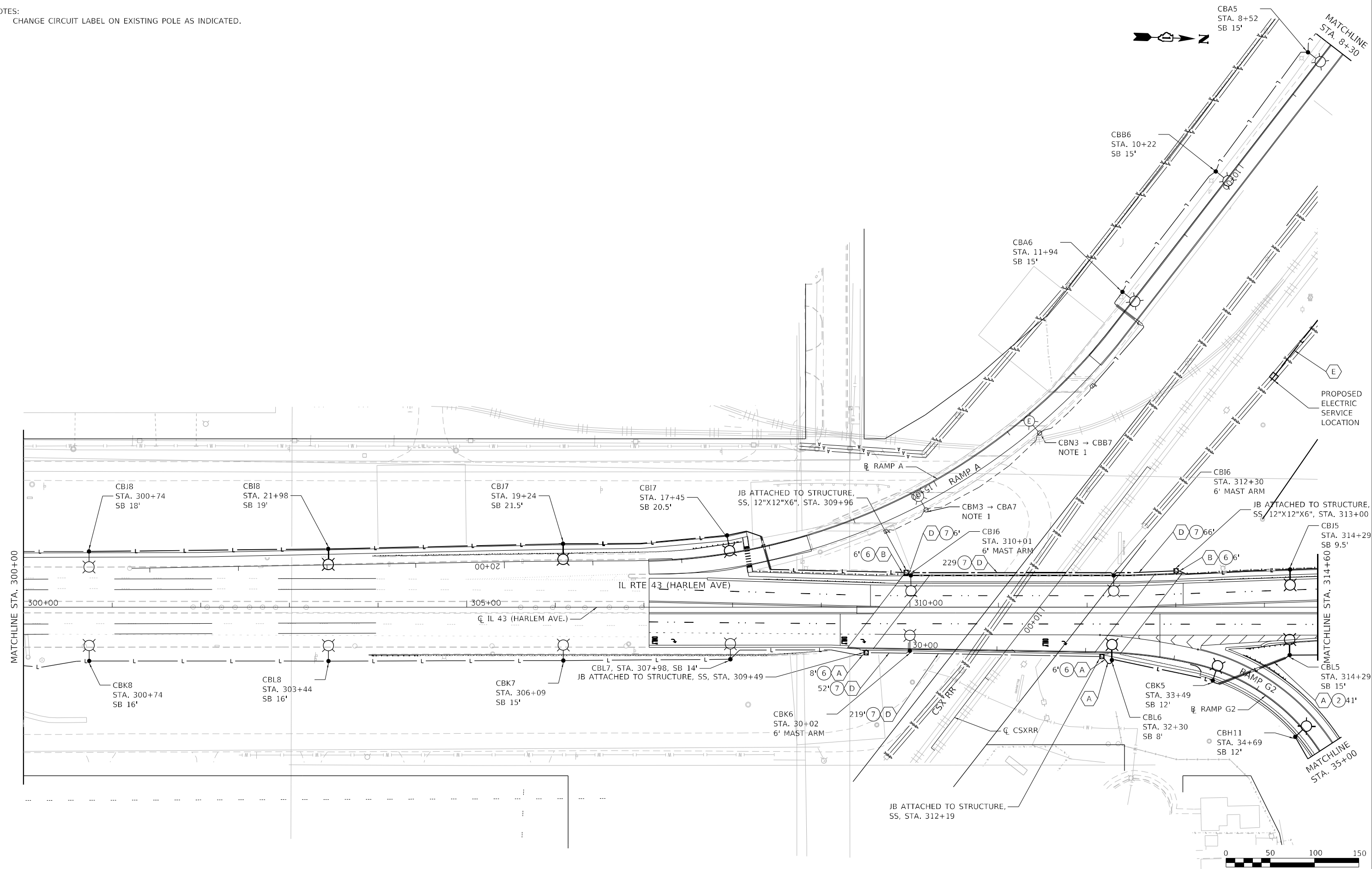
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SCALE IN FEET

GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 6035 N. NORTHWEST HIGHWAY SUITE 306 CHICAGO, ILLINOIS 60630 TEL: (773) 774-590	USER NAME = brice	DESIGNED - MA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING			F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 367
	PLOT SCALE = 100,0000' / in.	CHECKED - NT	REVISED -		SCALE: 1"=50'	SHEET 1 OF 6 SHEETS	STA. 290+00 TO STA. 300+00	CONTRACT NO. 60R49		ILLINOIS FED. AID PROJECT		
PLOT DATE = 1/26/2024	DATE - 2024-01-26	REVISED -										

NOTES:
 1. CHANGE CIRCUIT LABEL ON EXISTING POLE AS INDICATED.



MODEL: Default
 FILE NAME: C:\PROJECTS\Projects\2015\IL Route 43 over US 12\2024\SheetD160849-sh-light-58.dgn



USER NAME = brice	DESIGNED - MA	REVISED -
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PLOT DATE = 1/26/2024	DATE - 2024-01-26	REVISED -

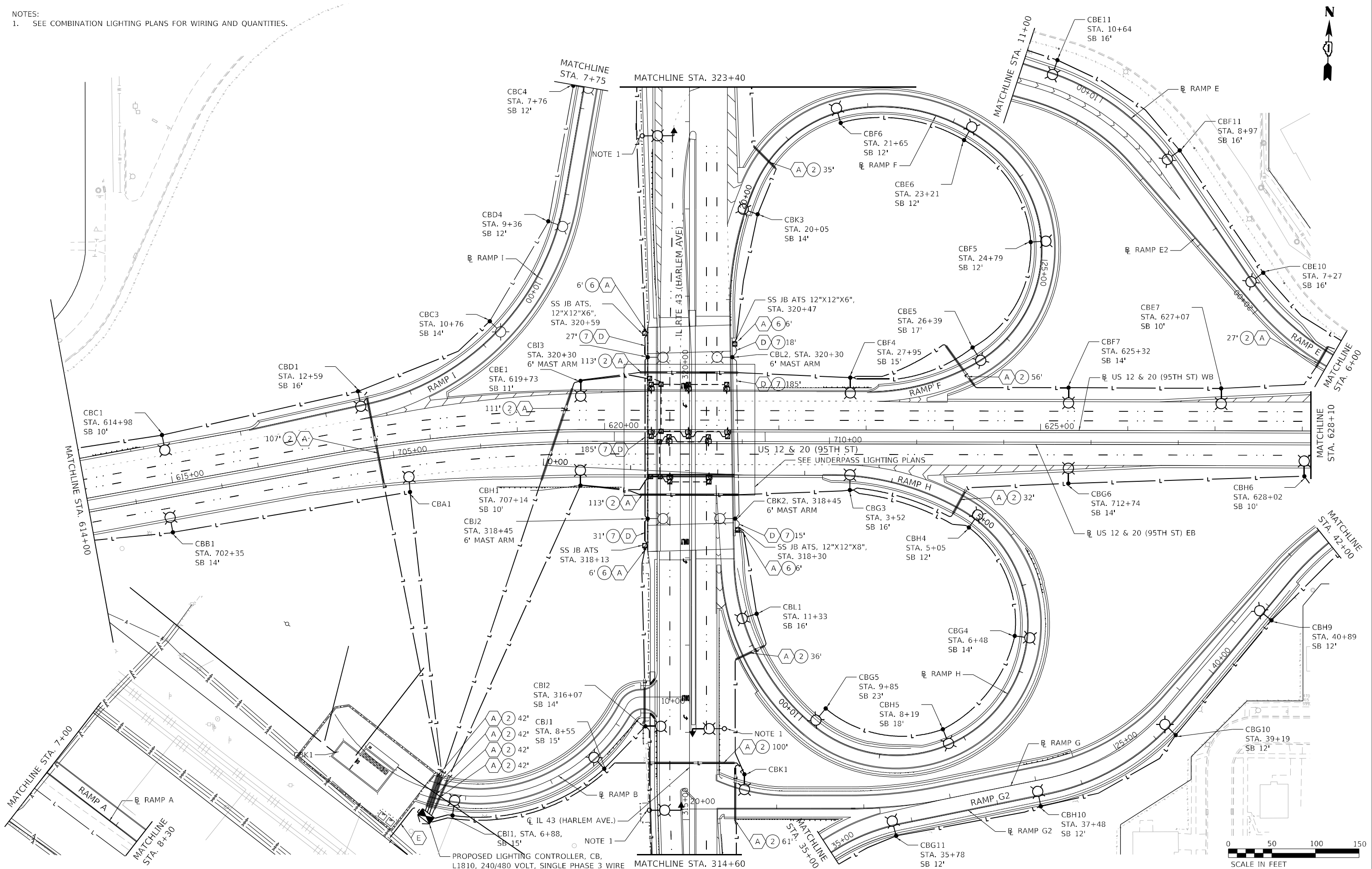
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PROPOSED LIGHTING

SCALE: 1"=50' SHEET 2 OF 6 SHEETS STA. 300+00 TO STA. 314+60

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 368
CONTRACT NO. 60R49			ILLINOIS FED. AID PROJECT	

NOTES:
 1. SEE COMBINATION LIGHTING PLANS FOR WIRING AND QUANTITIES.



PROPOSED LIGHTING CONTROLLER, CB,
 L1810, 240/480 VOLT, SINGLE PHASE 3 WIRE

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PROPOSED LIGHTING

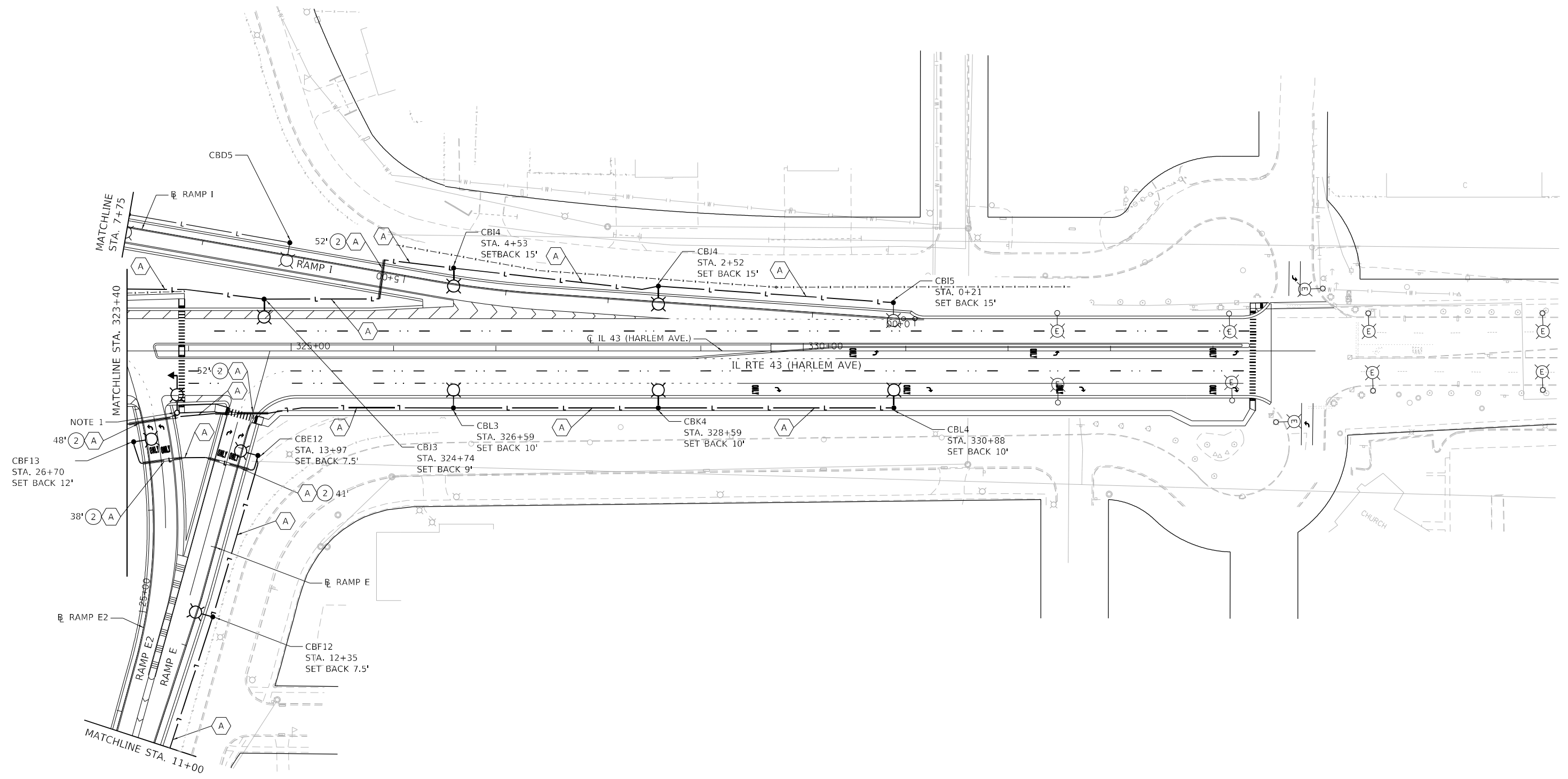


USER NAME = brice	DESIGNED - MA	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN - BR	REVISED -
PLOT DATE = 1/26/2024	CHECKED - NT	REVISED -
	DATE - 2024-01-26	REVISED -

SCALE: 1"=50'	SHEET 3 OF 6 SHEETS	STA. 314+60 TO STA. 323+40
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F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 369
				CONTRACT NO. 60R49
ILLINOIS FED. AID PROJECT				

NOTES:
 1. SEE COMBINATION LIGHTING PLANS FOR WIRING AND QUANTITIES.



NOTE 1
 CBF13
 STA. 26+70
 SET BACK 12'



MODEL: Default
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USER NAME = brice	DESIGNED - MA	REVISED -
DRAWN - BR	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - NT	REVISED -
PLOT DATE = 1/26/2024	DATE - 2024-01-26	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

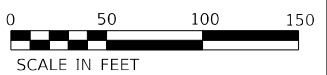
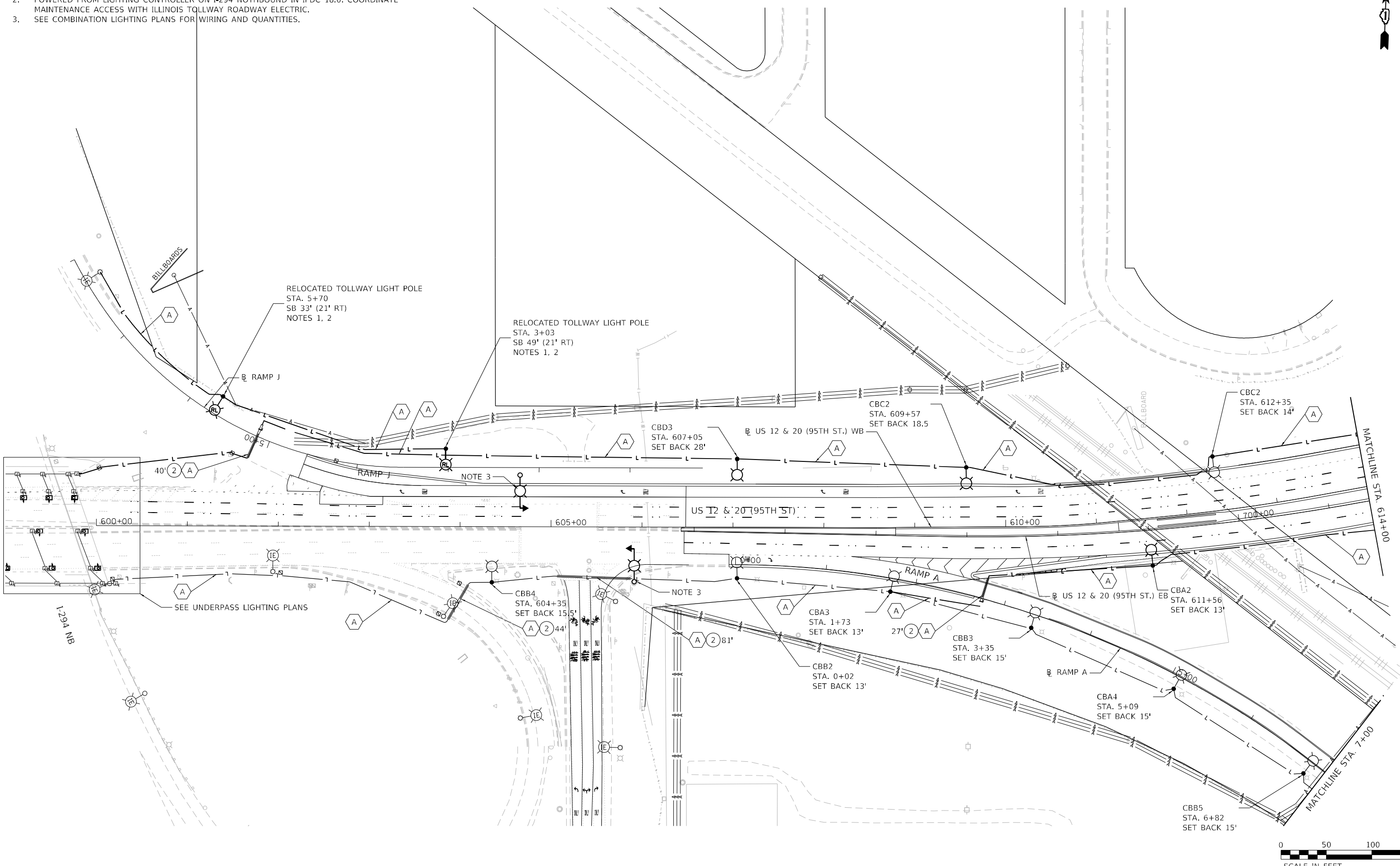
PROPOSED LIGHTING

SCALE: 1"=50' SHEET 4 OF 6 SHEETS STA. 323+40 TO STA. 335+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	370
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



- NOTES:
1. GRADE AROUND LIGHT POLE FOUNDATION ACCORDING TO ILLINOIS TOLLWAY STANDARD DRAWING H1.
 2. POWERED FROM LIGHTING CONTROLLER ON I-294 NORTHBOUND IN IPDC 18.0. COORDINATE MAINTENANCE ACCESS WITH ILLINOIS TOLLWAY ROADWAY ELECTRIC.
 3. SEE COMBINATION LIGHTING PLANS FOR WIRING AND QUANTITIES.



MODEL: Default
 FILE NAME: \\proj\projects\projects\2015\IL Route 43 over US 12-20\CADD_Sheets\160R49-sh-light-51.dgn
 PROJECT: ILLINOIS TOLLWAY PROJECTS

GA GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 5035 N. NORTHWEST HIGHWAY
 SUITE 206
 CHICAGO, ILLINOIS 60630 TEL: 773-774-590

USER NAME = brice	DESIGNED - MA	REVISED -
DRAWN - BR	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - NT	REVISED -
PLOT DATE = 1/26/2024	DATE - 2024-01-26	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

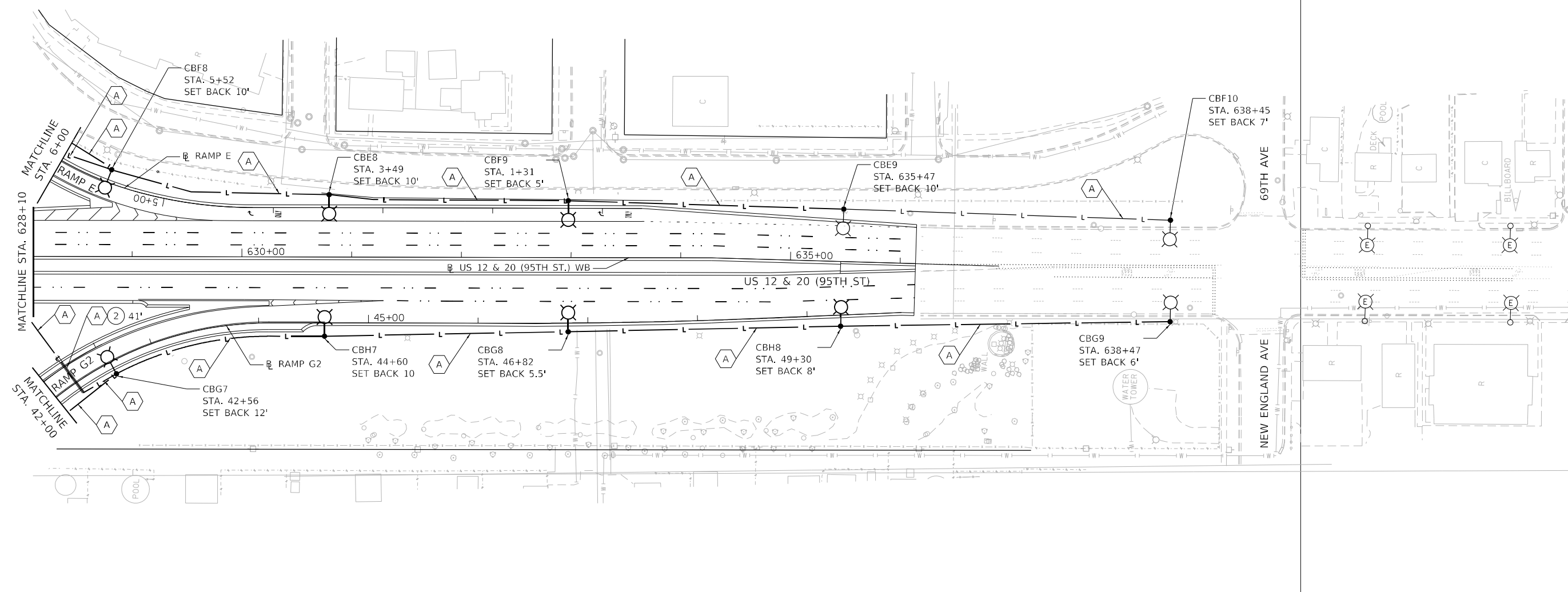
PROPOSED LIGHTING

SCALE: 1"=50' SHEET 5 OF 6 SHEETS STA. 600+00 TO STA. 614+00

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&S	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 371
			CONTRACT NO. 60R49	
ILLINOIS FED. AID PROJECT				



IDOT LIGHTING LOCAL LIGHTING



MODEL: Default
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 PROJECT: 3128-Z-I-R&S



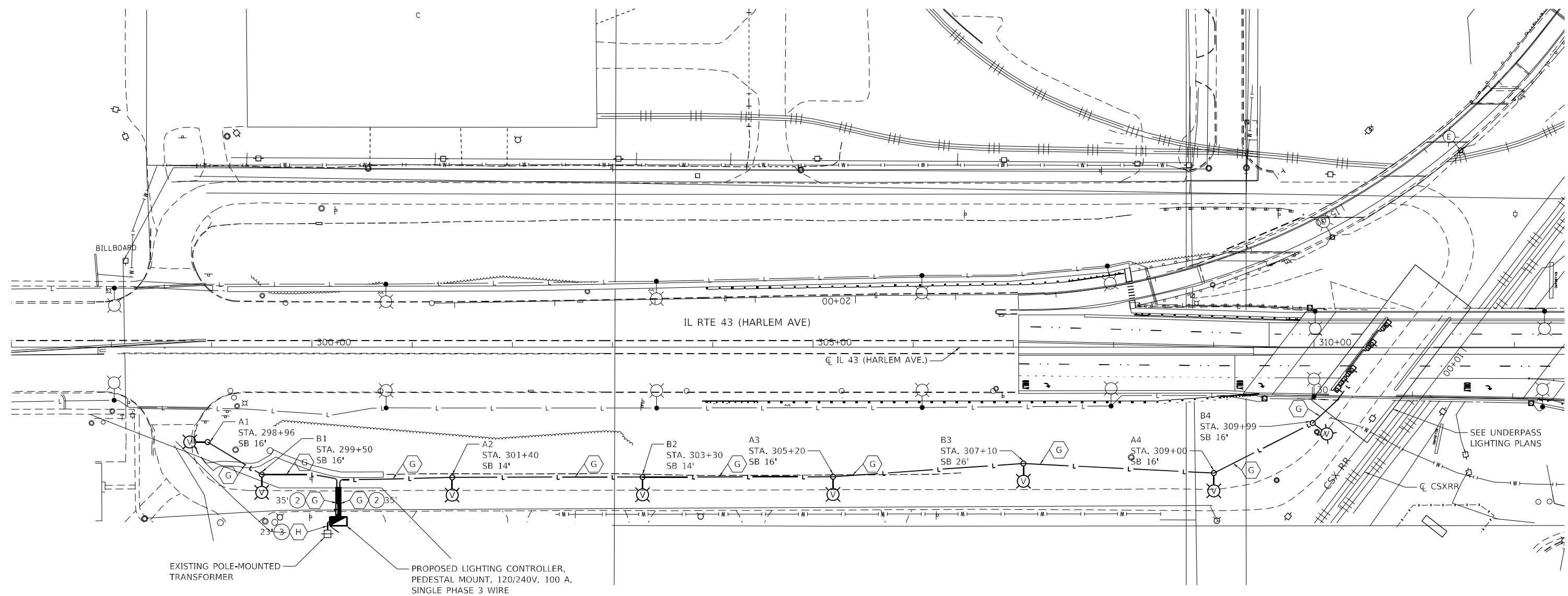
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PLOT SCALE = 100,0000' / in.	DRAWN - BR	REVISED -
PLOT DATE = 1/26/2024	CHECKED - NT	REVISED -
	DATE - 2024-01-26	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED LIGHTING

SCALE: 1"=50' SHEET 6 OF 6 SHEETS STA. 628+10 TO STA. 637+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	372
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



MODEL: Default
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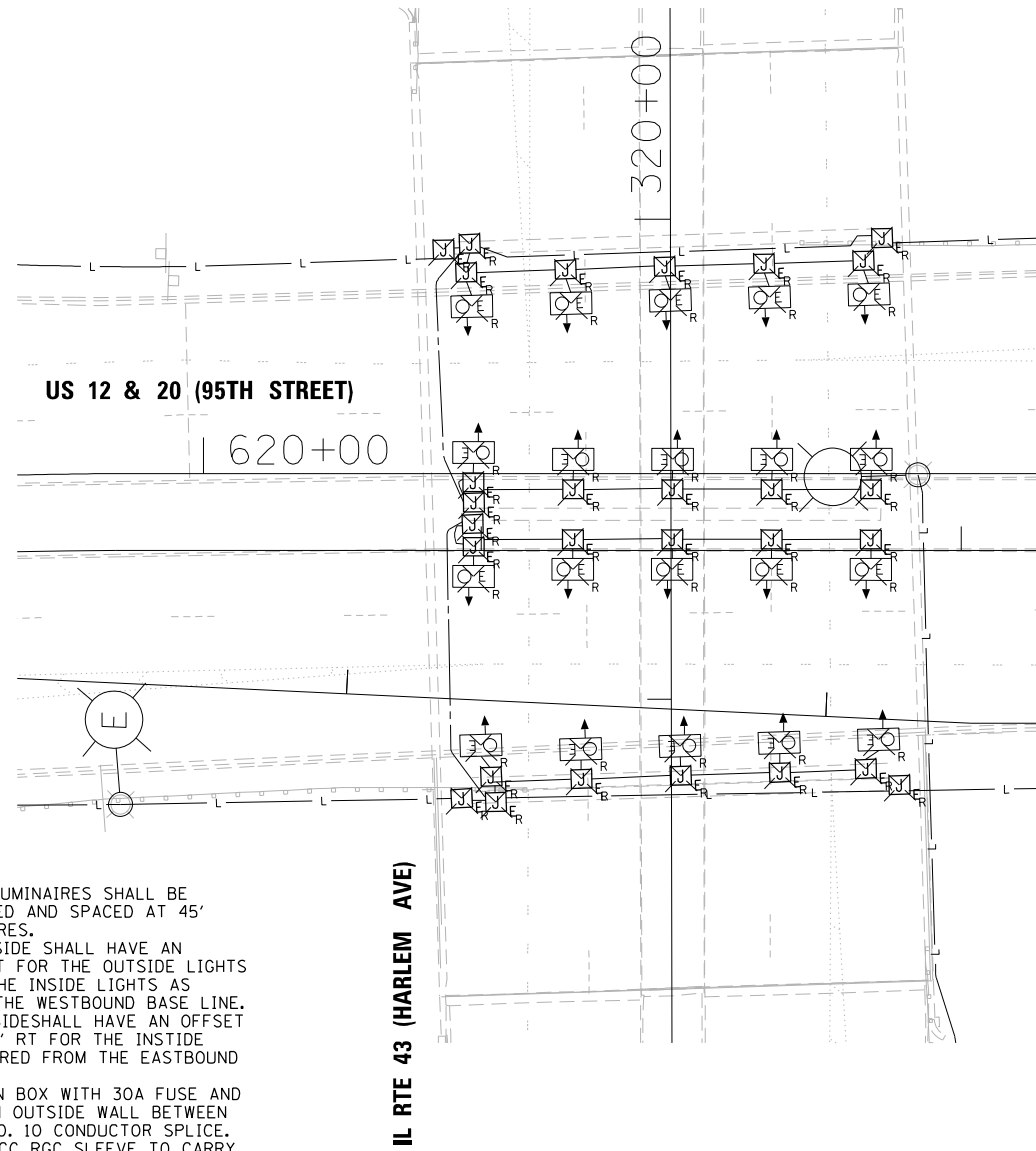
GO GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 6035 N. NORTHWEST HIGHWAY
 SUITE 308
 CHICAGO, ILLINOIS 60630 TEL: 773-774-590

USER NAME = brice	DESIGNED - MA	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - BR	REVISED -
PLOT DATE = 1/26/2024	CHECKED - NT	REVISED -
	DATE - 2024-01-26	REVISED -

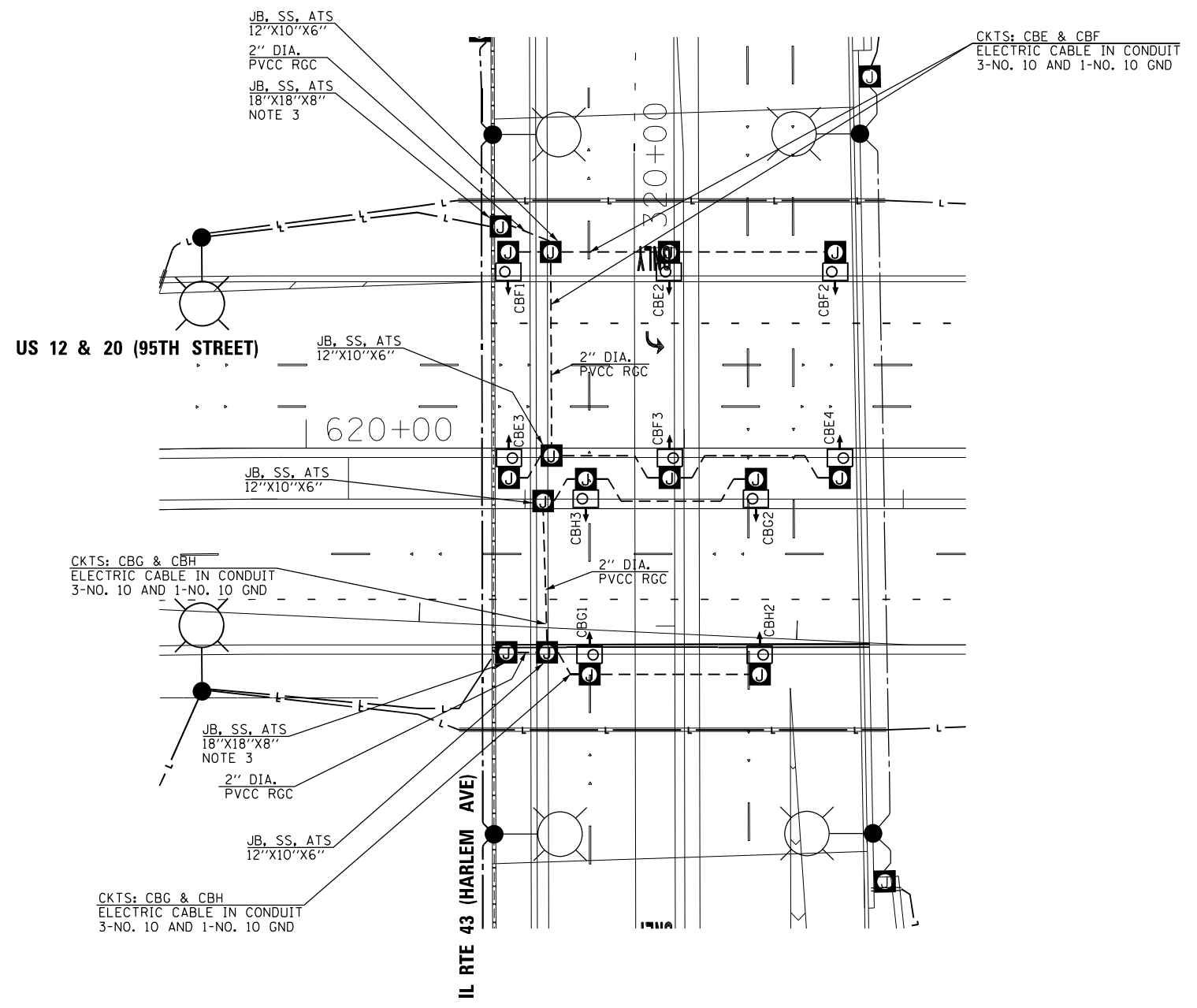
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING FRONTAGE RD		SCALE: 1"=50'	SHEET	OF	SHEETS	STA. 297+00	TO STA. 312+50
		ILLINOIS FED. AID PROJECT					

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 373
CONTRACT NO. 60R49				

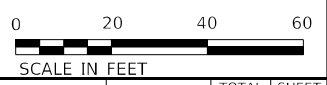


LIGHTING REMOVAL PLAN



PROPOSED LIGHTING PLAN

- NOTES:
1. ALL UNDERPASS LUMINAIRES SHALL BE CEILING SUSPENDED AND SPACED AT 45' BETWEEN LUMINAIRES.
 2. THE WESTBOUND SIDE SHALL HAVE AN OFFSET OF 49' LT FOR THE OUTSIDE LIGHTS AND 5' RT FOR THE INSIDE LIGHTS AS MEASURED FROM THE WESTBOUND BASE LINE. THE EASTBOUND SIDESHALL HAVE AN OFFSET OF 41' LT AND 41' RT FOR THE INSIDE LIGHTS AS MEASURED FROM THE EASTBOUND BASE LINE.
 3. INSTALL JUNCTION BOX WITH 30A FUSE AND NUTRAL SLUG ON OUTSIDE WALL BETWEEN THE NO. 2 AND NO. 10 CONDUCTOR SPLICE. PROVIDE A 3" PVCC RGC SLEEVE TO CARRY THE UNIT DUCT FROM UNDERGROUND TO THE FUSED JUNCTION BOX ATTACHED TO STRUCTURE.
 4. INSTALL THE SUSPENDED LUMINAIRES TO MAINTAIN THE BOTTOM OF THE LUMINAIRE FLUSH WITH THE BOTTOM OF THE GIRDERS.
 5. ALL UNDERPASS JUNCTION BOXES ARE SS, ATS, 6"x6"x4" UNLESS SPECIFIED OTHERWISE.
 6. ALL UNDERPASS CONDUIT SHOWN IS 1" PVCC RGC UNLESS OTHERWISE SPECIFIED.
 7. SEE UNDERPASS LIGHTING DETAILS FOR MOUNTING INFORMATION.



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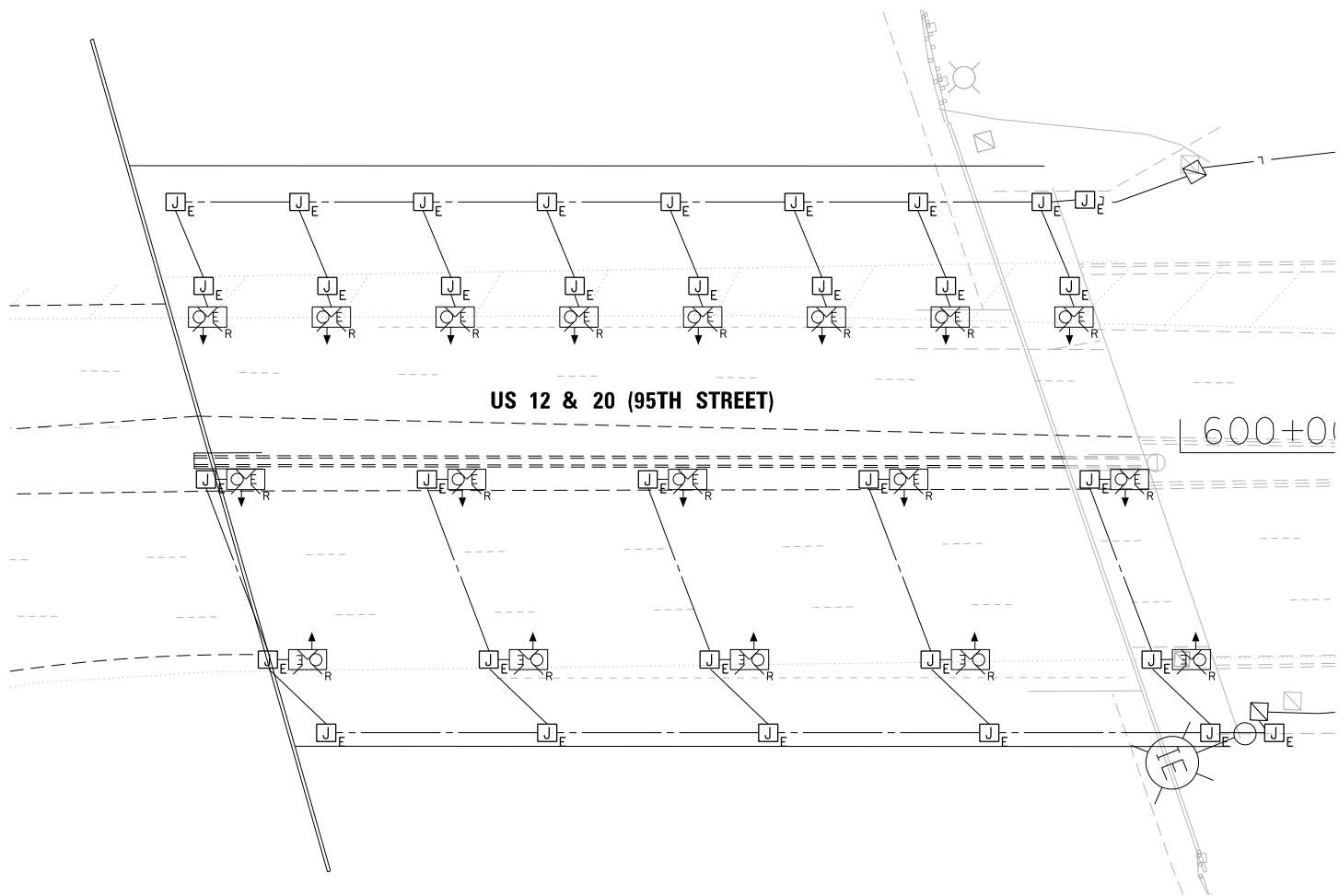
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

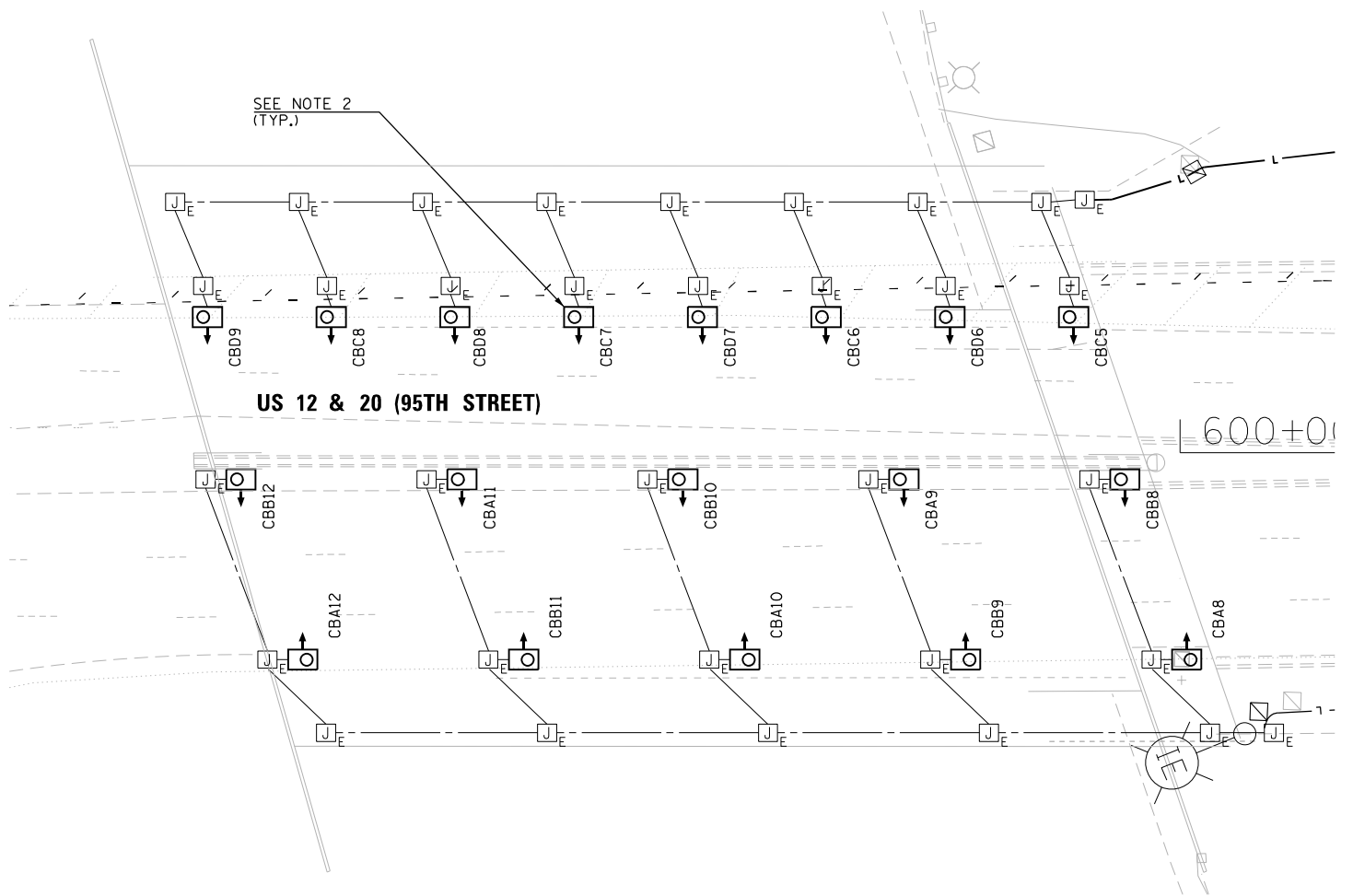
**US ROUTE 12-20 UNDER IL ROUTE 43
UNDERPASS LIGHTING PLAN**

SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 374
			CONTRACT NO. 60R49	
ILLINOIS FED. AID PROJECT				



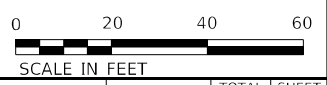
LIGHTING REMOVAL PLAN



PROPOSED LIGHTING PLAN

NOTES:

1. ALL LUMINAIRES SHALL BE SUSPENDED CEILING MOUNTED. CONTRACTOR SHALL INSTALL NEW LUMINAIRE HANGER ASSEMBLIES PER THE SUSPENDED UNDERPASS LIGHTING DETAIL.
2. CONTRACTOR SHALL REPLACE THE EXISTING LUMINAIRES WITH NEW LED TYPE LUMINAIRES AND INSTALL NEW FLEXIBLE LIQUID TIGHT CONDUIT FROM THE EXISTING JUNCTION BOXES TO THE LUMINAIRES. THIS WORK SHALL BE INCIDENTAL TO THE LUMINAIRE PAY ITEM.
3. CONTRACTOR SHALL REPLACE THE EXISTING UNDERPASS LUMINAIRE DECALS WITH NEW DECALS. THE REMOVAL OF THE EXISTING DECALS SHALL BE INCIDENTAL TO THE LUMINAIRE REMOVAL PAY ITEM.



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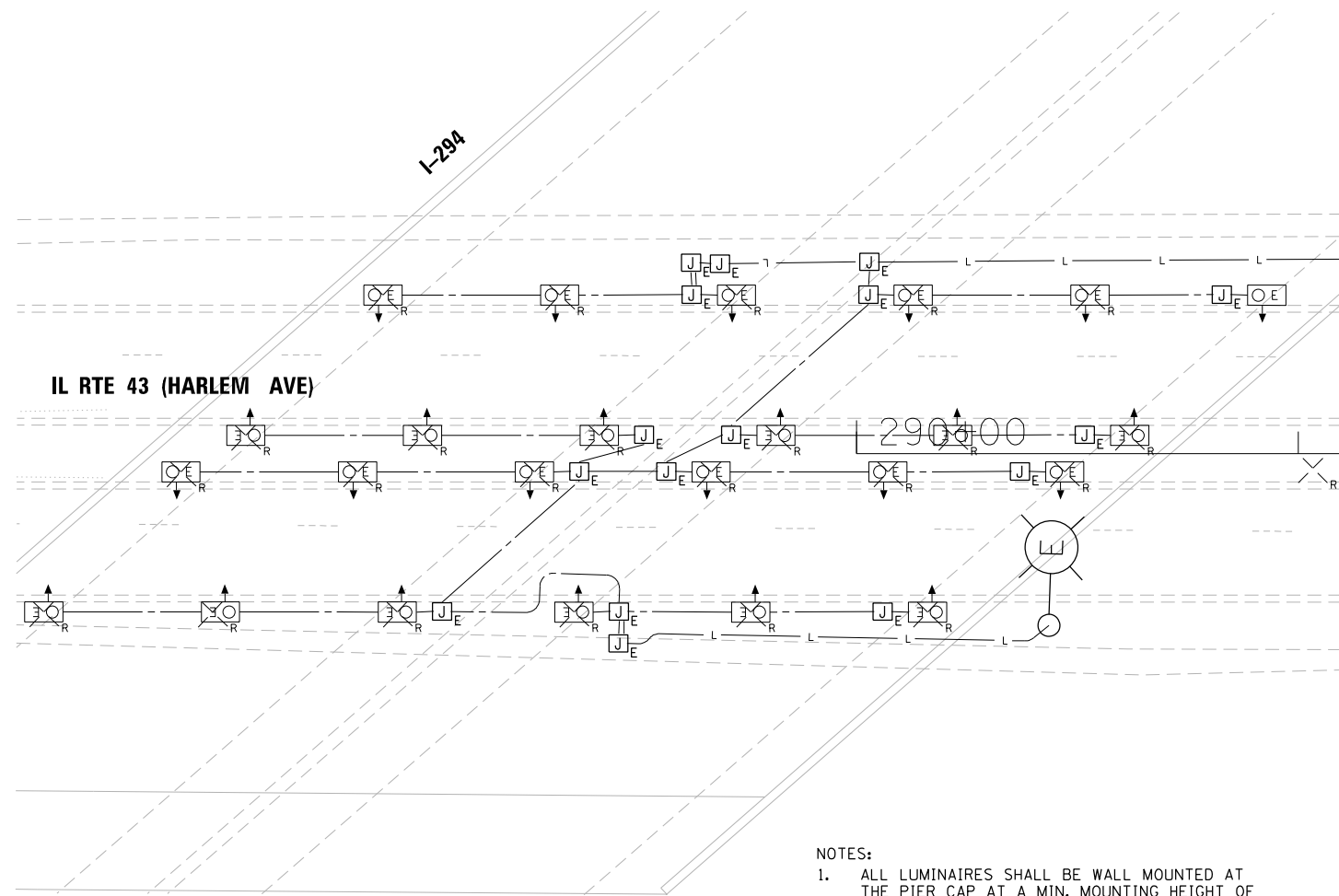
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

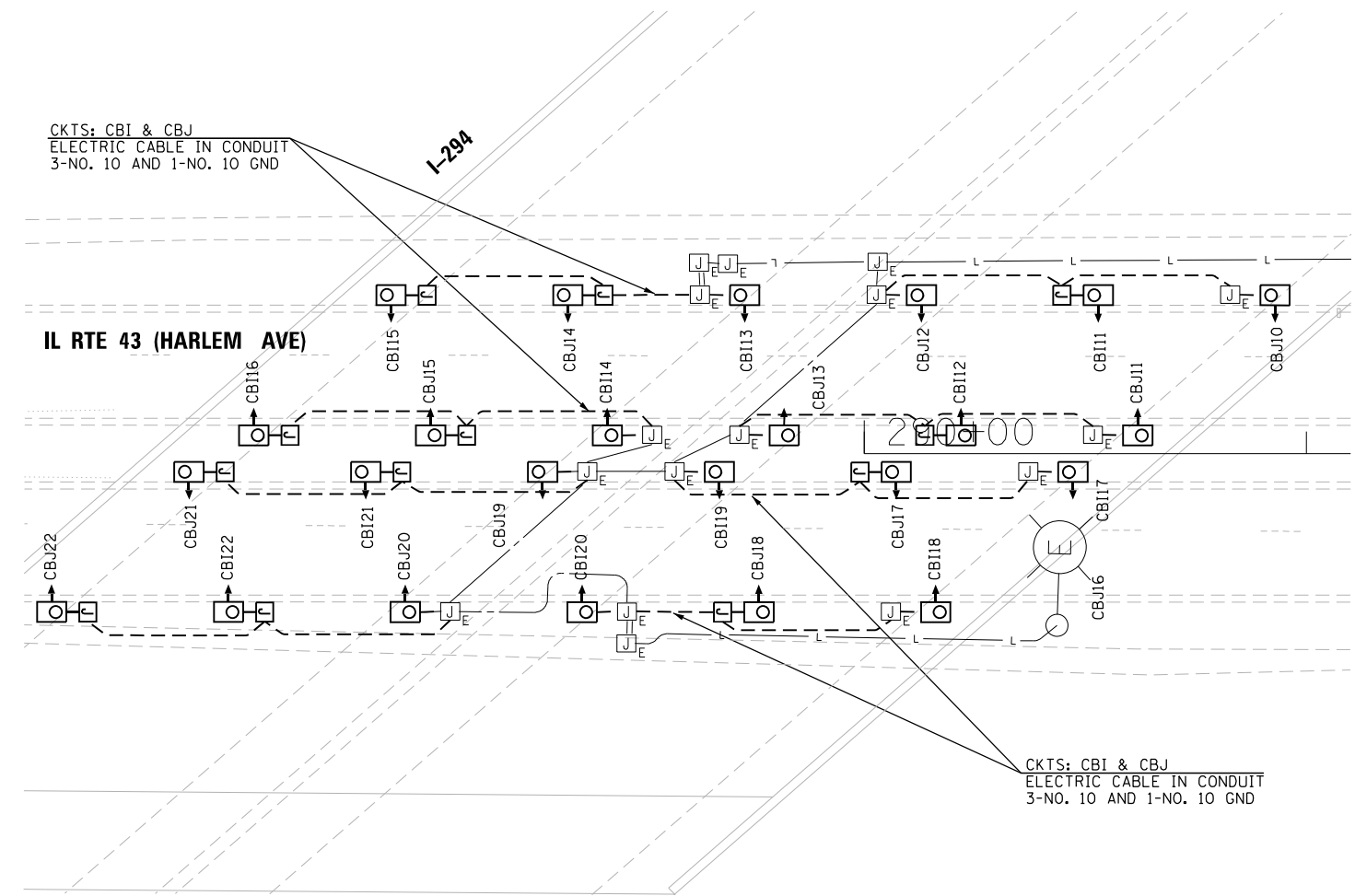
**US ROUTE 12-20 UNDER I-294
UNDERPASS LIGHTING PLAN**

SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&S	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 375
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



LIGHTING REMOVAL PLAN



PROPOSED LIGHTING PLAN

NOTES:

1. ALL LUMINAIRES SHALL BE WALL MOUNTED AT THE PIER CAP AT A MIN. MOUNTING HEIGHT OF 22'.
2. UNDERPASS LUMINAIRES SHALL BE SPACED AT 40' INTERVALS.
3. CONTRACTOR SHALL REPLACE THE EXISTING LUMINAIRES WITH NEW LED TYPE LUMINAIRES.
4. ALL UNDERPASS JUNCTION BOXES ARE SS, ATS, 6"X6"X4" UNLESS SPECIFIED OTHERWISE.
5. ALL UNDERPASS CONDUIT SHOWN IS 1" PVC RGC UNLESS OTHERWISE SPECIFIED.
6. SEE UNDERPASS LIGHTING DETAILS FOR MOUNTING INFORMATION.
7. CONTRACTOR SHALL REPLACE THE EXISTING UNDERPASS LUMINAIER DECALS WITH NEW DECALS.

CKTS: CBI & CBJ
ELECTRIC CABLE IN CONDUIT
3-NO. 10 AND 1-NO. 10 GND



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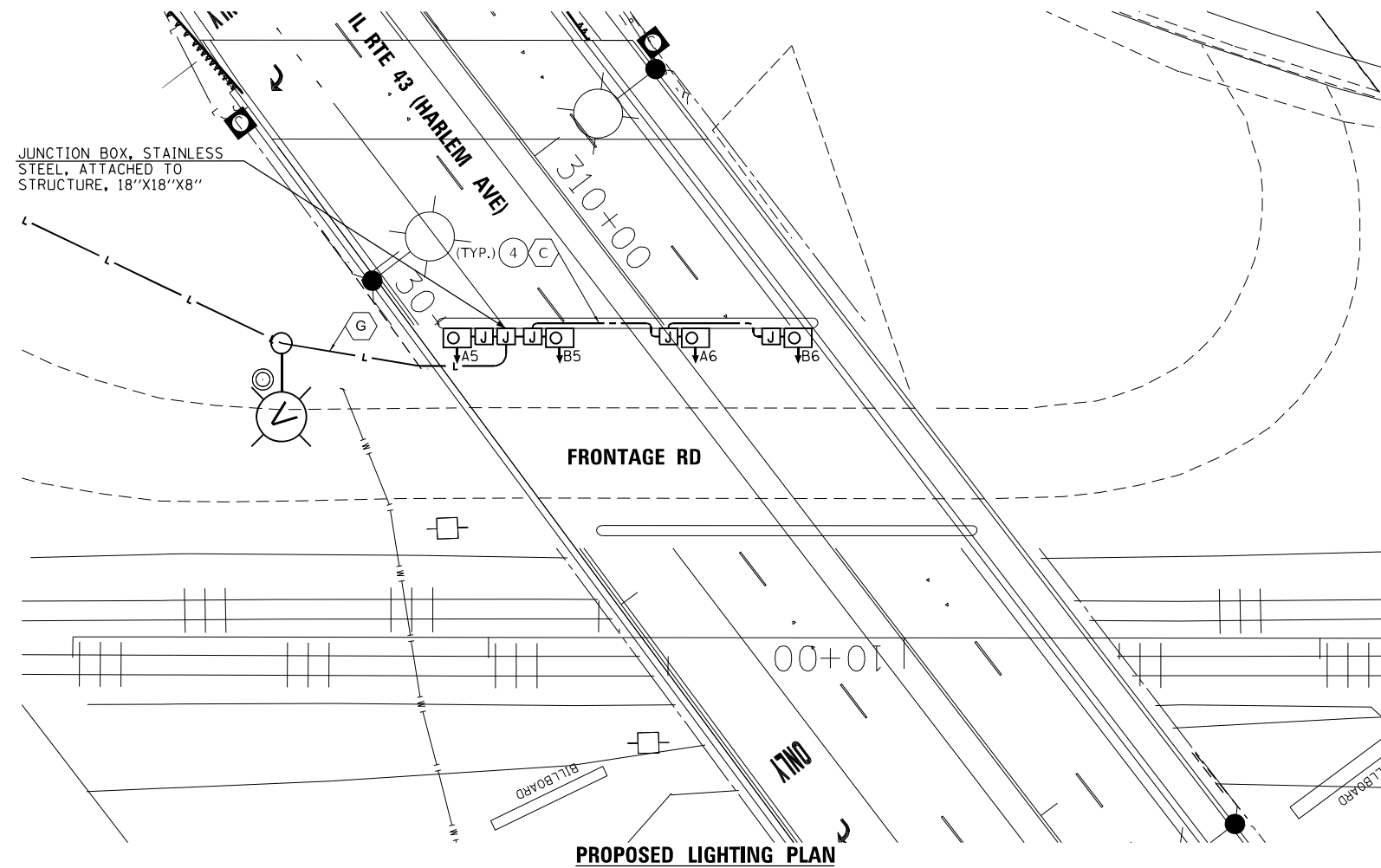
GA GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 206
CHICAGO, ILLINOIS 60630 TEL: 773-774-590

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 43 UNDER I-294 UNDERPASS LIGHTING PLAN			
SCALE: 1"=20'	SHEET	OF SHEETS	STA. TO STA.

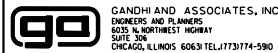
F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 376
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



NOTES:

1. ALL LUMINAIRES SHALL BE WALL MOUNTED AT THE PIER CAP AT A MIN. MOUNTING HEIGHT OF 22'.
2. UNDERPASS LUMINAIRES SHALL BE SPACED AT 25' INTERVALS.
3. ALL UNDERPASS JUNCTION BOXES ARE SS, ATS, 6"X6"X4" UNLESS SPECIFIED OTHERWISE.
4. ALL UNDERPASS CONDUIT SHOWN IS 1" PVCC RGC UNLESS OTHERWISE SPECIFIED.
5. SEE UNDERPASS LIGHTING DETAILS FOR MOUNTING INFORMATION.
6. TILT LUMINAIRES 30 DEGREES ABOVE THE HORIZONTAL, OR AS RECOMMENDED BY THE MANUFACTURER AND APPROVED BY THE ENGINEER.

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PLOT DATE = 1/26/2024	DATE - 2024-01-26	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**UNDERPASS LIGHTING PLAN
FRONTAGE RD UNDER IL ROUTE 43**

SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.



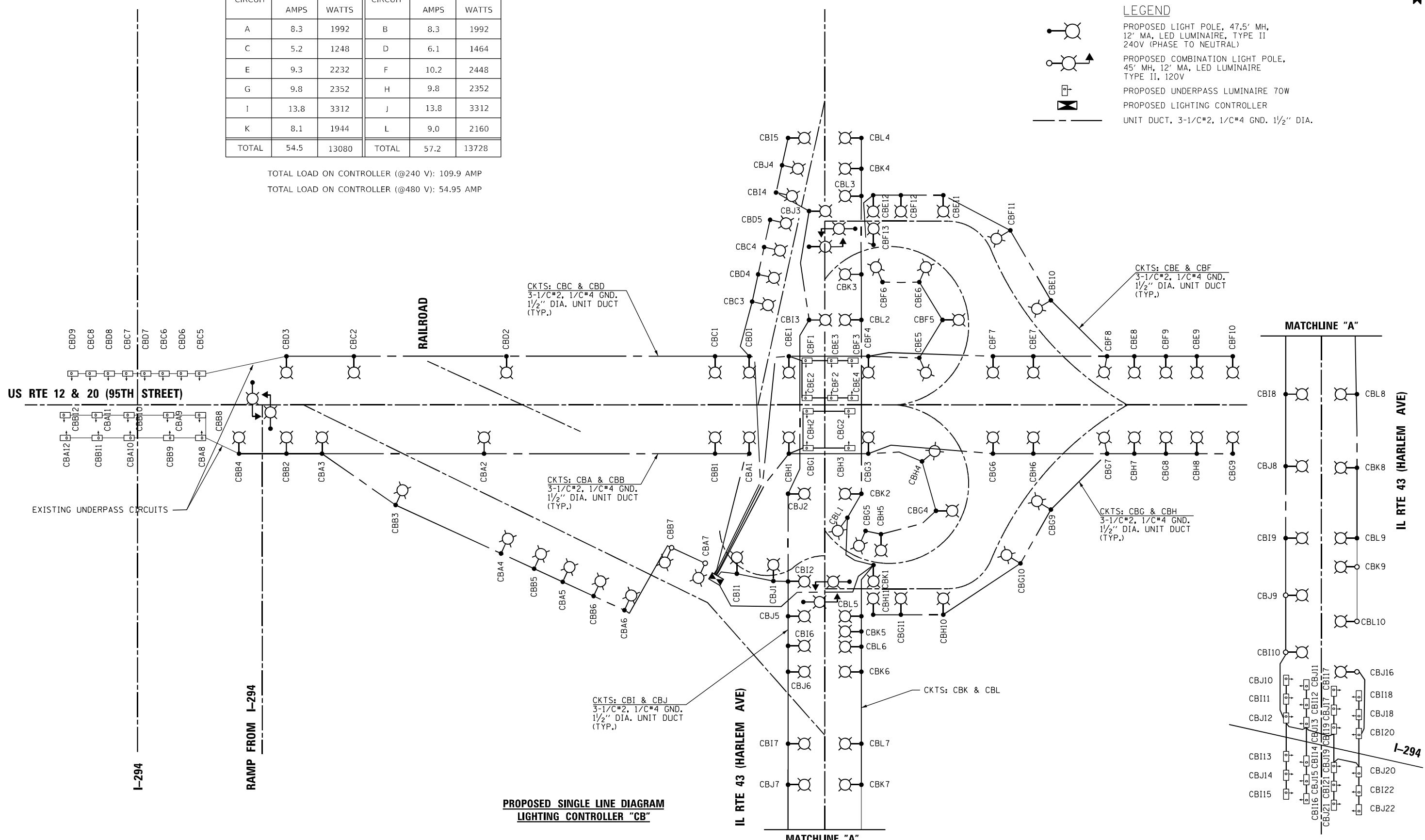
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	377
CONTRACT NO. 60R49			ILLINOIS FED. AID PROJECT	



LOAD TABLE PROPOSED LIGHTING CONTROLLER "CB", L1810 (@ 240/480 VOLTS, SINGLE PHASE, 3 WIRE)					
CIRCUIT	RED PHASE		CIRCUIT	BLACK PHASE	
	AMPS	WATTS		AMPS	WATTS
A	8.3	1992	B	8.3	1992
C	5.2	1248	D	6.1	1464
E	9.3	2232	F	10.2	2448
G	9.8	2352	H	9.8	2352
I	13.8	3312	J	13.8	3312
K	8.1	1944	L	9.0	2160
TOTAL	54.5	13080	TOTAL	57.2	13728

TOTAL LOAD ON CONTROLLER (@240 V): 109.9 AMP
 TOTAL LOAD ON CONTROLLER (@480 V): 54.95 AMP

- LEGEND**
- PROPOSED LIGHT POLE, 47.5' MH, 12' MA, LED LUMINAIRE, TYPE II 240V (PHASE TO NEUTRAL)
 - PROPOSED COMBINATION LIGHT POLE, 45' MH, 12' MA, LED LUMINAIRE TYPE II, 120V
 - PROPOSED UNDERPASS LUMINAIRE 70W
 - PROPOSED LIGHTING CONTROLLER
 - UNIT DUCT, 3-1/C#2, 1/C#4 GND, 1/2" DIA.



**PROPOSED SINGLE LINE DIAGRAM
 LIGHTING CONTROLLER "CB"**

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 PROJECT: 2015 IL Route 43 over US 12-20

GA GANDHI AND ASSOCIATES, INC.
 ENGINEERS AND PLANNERS
 5015 N. NORTHWEST HIGHWAY
 SUITE 206
 CHICAGO, ILLINOIS 60630 TEL: 773-774-590

USER NAME = brice	DESIGNED - MA	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

US ROUTE 12-20 AND IL ROUTE 43 SINGLE LINE DIAGRAM

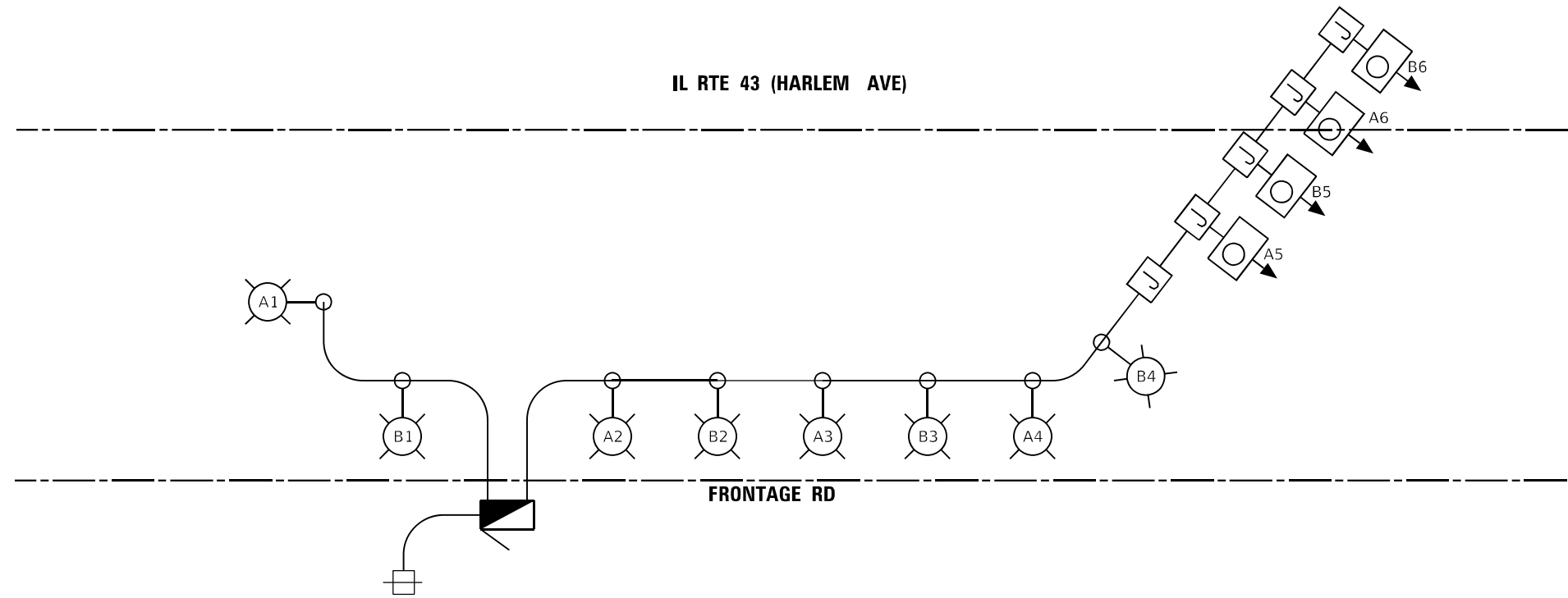
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F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 378
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



LOAD TABLE PROPOSED FRONTAGE RD LIGHTING CONTROLLER (@ 120/240 VOLTS, SINGLE PHASE, 3 WIRE)					
CIRCUIT	RED PHASE		CIRCUIT	BLACK PHASE	
	AMPS	WATTS		AMPS	WATTS
A	8.3	1000	B	8.3	1000
C	0	0	D	0	0
E	0	0	F	0	0
G	0	0	H	0	0
TOTAL	8.3	1000	TOTAL	8.3	1000

TOTAL LOAD ON CONTROLLER (@120V): 16.7 AMP
 TOTAL LOAD ON CONTROLLER (@240 V): 8.3 AMP



**PROPOSED SINGLE LINE DIAGRAM
FRONTAGE RD CONTROLLER**

LEGEND

- PROPOSED LIGHT POLE, 30' MH, 15' MA, LED LUMINAIRE, TYPE II 120V (PHASE TO NEUTRAL)
- PROPOSED UNDERPASS LUMINAIRE, WALL MOUNTED, 70W
- PROPOSED JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE. SIZE AS INDICATED ON PLANS.
- PROPOSED LIGHTING CONTROLLER, PEDESTAL MOUNT, 120/240 V, SINGLE PHASE, 3 WIRE
- EXISTING ELECTRIC SERVICE POLE

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 6035 N. NORTHWEST HIGHWAY
 SUITE 206
 CHICAGO, ILLINOIS 60630 TEL: 773-774-590

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

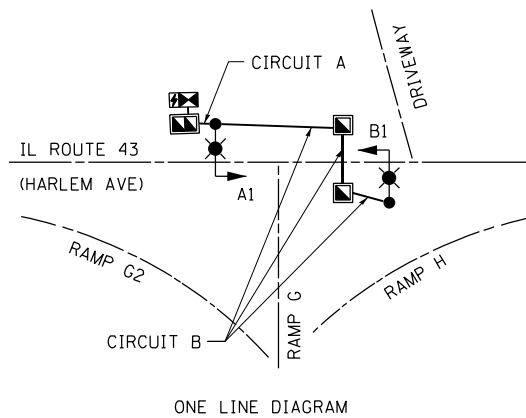
**SINGLE LINE LIGHTING DIAGRAM
FRONTAGE RD**

SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&S	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 379
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



COMBINATION LIGHT POLE
 45 FT. LUMINAIRE MOUNTING HEIGHT
 15 FT. LUMINAIRE MAST ARM
 LED LUMINAIRE OUTPUT DESIGNATION H, 120V



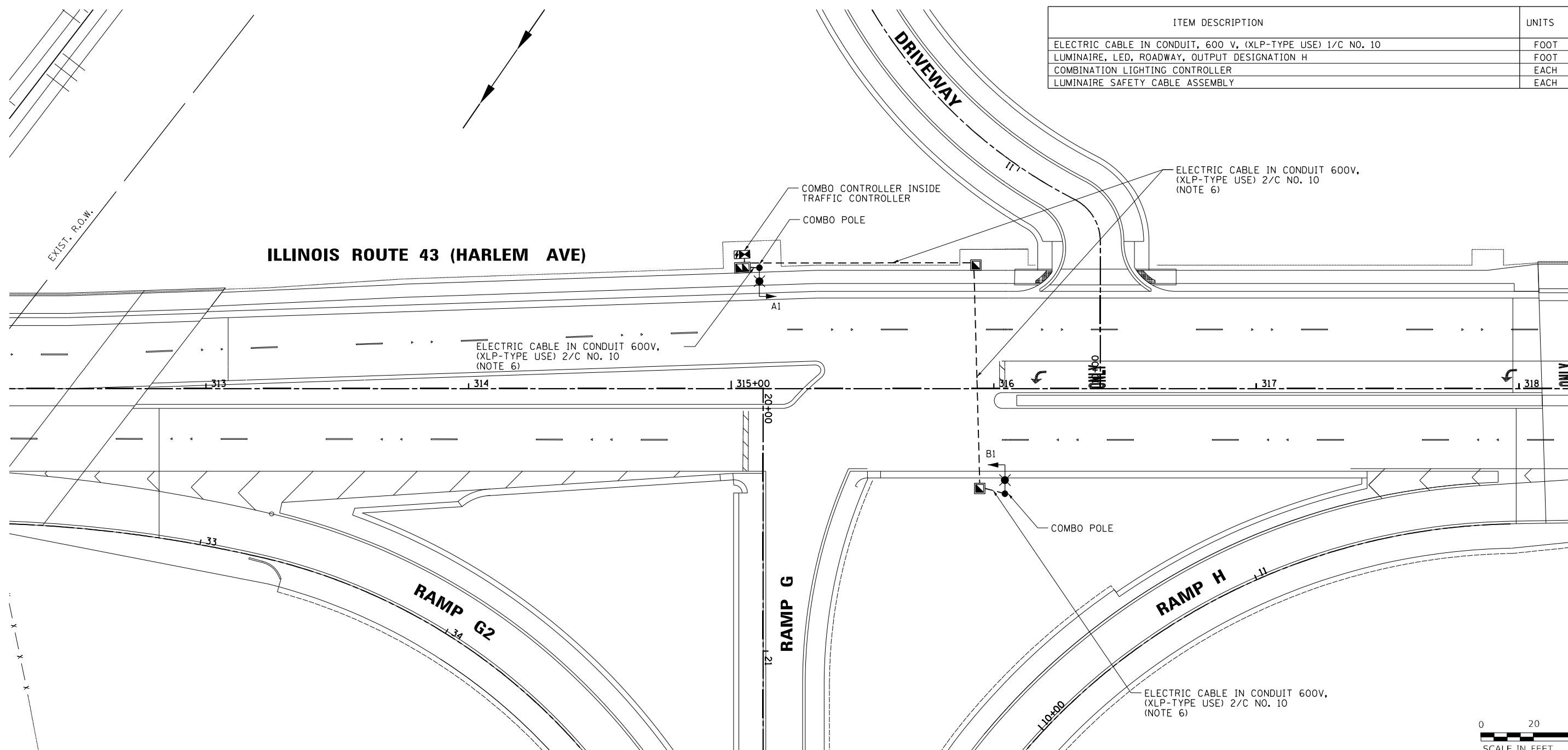
ONE LINE DIAGRAM

NOTES:

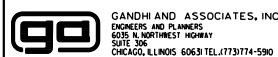
1. THE COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. LUMINAIRES ARE POWERED FROM TRAFFIC CONTROLLER.
3. THE COMBO LIGHTING CABLE AND SIGNAL CABLES WILL BE IN SHARED CONDUIT.
4. SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HAND HOLES, AND CONDUITS.
5. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES. CIRCUITING SHOWN IS FOR INFORMATION ONLY.
6. ELECTRIC CABLE IN CONDUIT 600V, (XLP-TYPE USE) 2/C NO. 10 Routed THRU TRAFFIC SIGNAL CONDUIT. SEE TRAFFIC SIGNAL PLANS FOR CONDUIT SIZE AND CONDUIT ROUTE

SCHEDULE OF QUANTITIES FOR LIGHTING

ITEM DESCRIPTION	UNITS	TOTAL QTY.
ELECTRIC CABLE IN CONDUIT, 600 V, (XLP-TYPE USE) 1/C NO. 10	FOOT	526
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	FOOT	2
COMBINATION LIGHTING CONTROLLER	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	2



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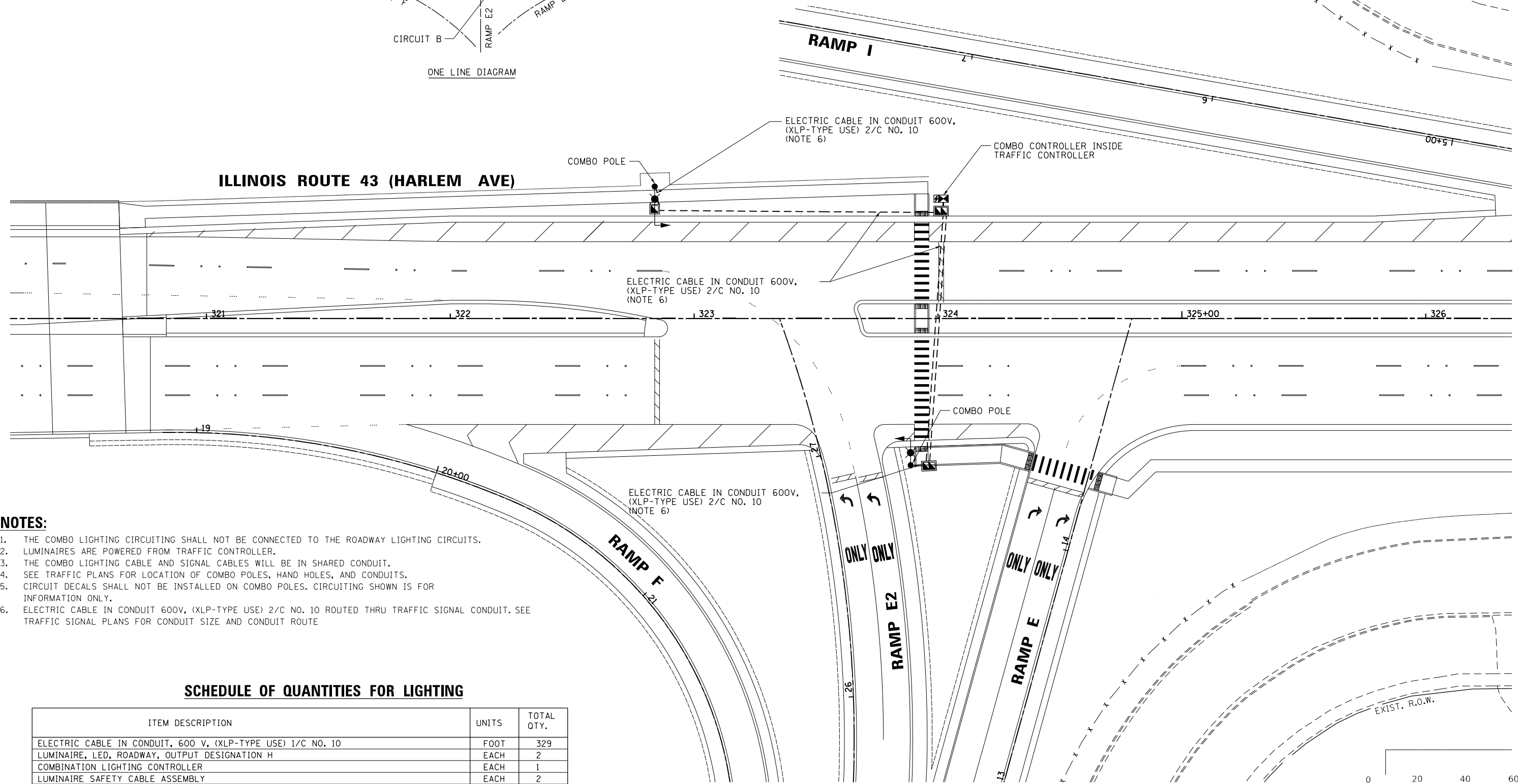
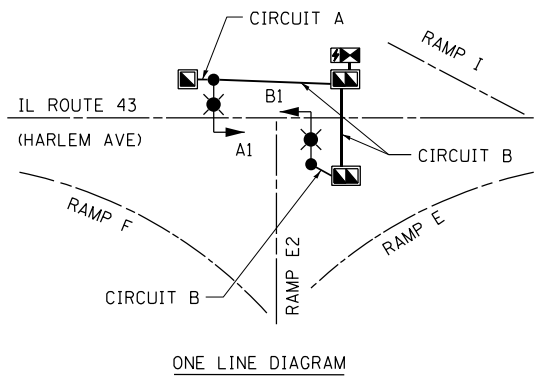
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING COMBINATION POLE PLAN
 ILLINOIS ROUTE 43 (HARLEM AVE) AT RAMP G**

SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&S	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 380
			CONTRACT NO. 60R49	
ILLINOIS		FED. AID PROJECT		

COMBINATION LIGHT POLE
 45 FT. LUMINAIRE MOUNTING HEIGHT
 15 FT. LUMINAIRE MAST ARM
 LED LUMINAIRE OUTPUT DESIGNATION H, 120V

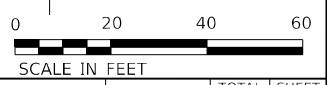


NOTES:

1. THE COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. LUMINAIRES ARE POWERED FROM TRAFFIC CONTROLLER.
3. THE COMBO LIGHTING CABLE AND SIGNAL CABLES WILL BE IN SHARED CONDUIT.
4. SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HAND HOLES, AND CONDUITS.
5. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES. CIRCUITING SHOWN IS FOR INFORMATION ONLY.
6. ELECTRIC CABLE IN CONDUIT 600V, (XLP-TYPE USE) 2/C NO. 10 ROUTED THRU TRAFFIC SIGNAL CONDUIT. SEE TRAFFIC SIGNAL PLANS FOR CONDUIT SIZE AND CONDUIT ROUTE

SCHEDULE OF QUANTITIES FOR LIGHTING

ITEM DESCRIPTION	UNITS	TOTAL QTY.
ELECTRIC CABLE IN CONDUIT, 600 V, (XLP-TYPE USE) 1/C NO. 10	FOOT	329
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	2
COMBINATION LIGHTING CONTROLLER	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	2



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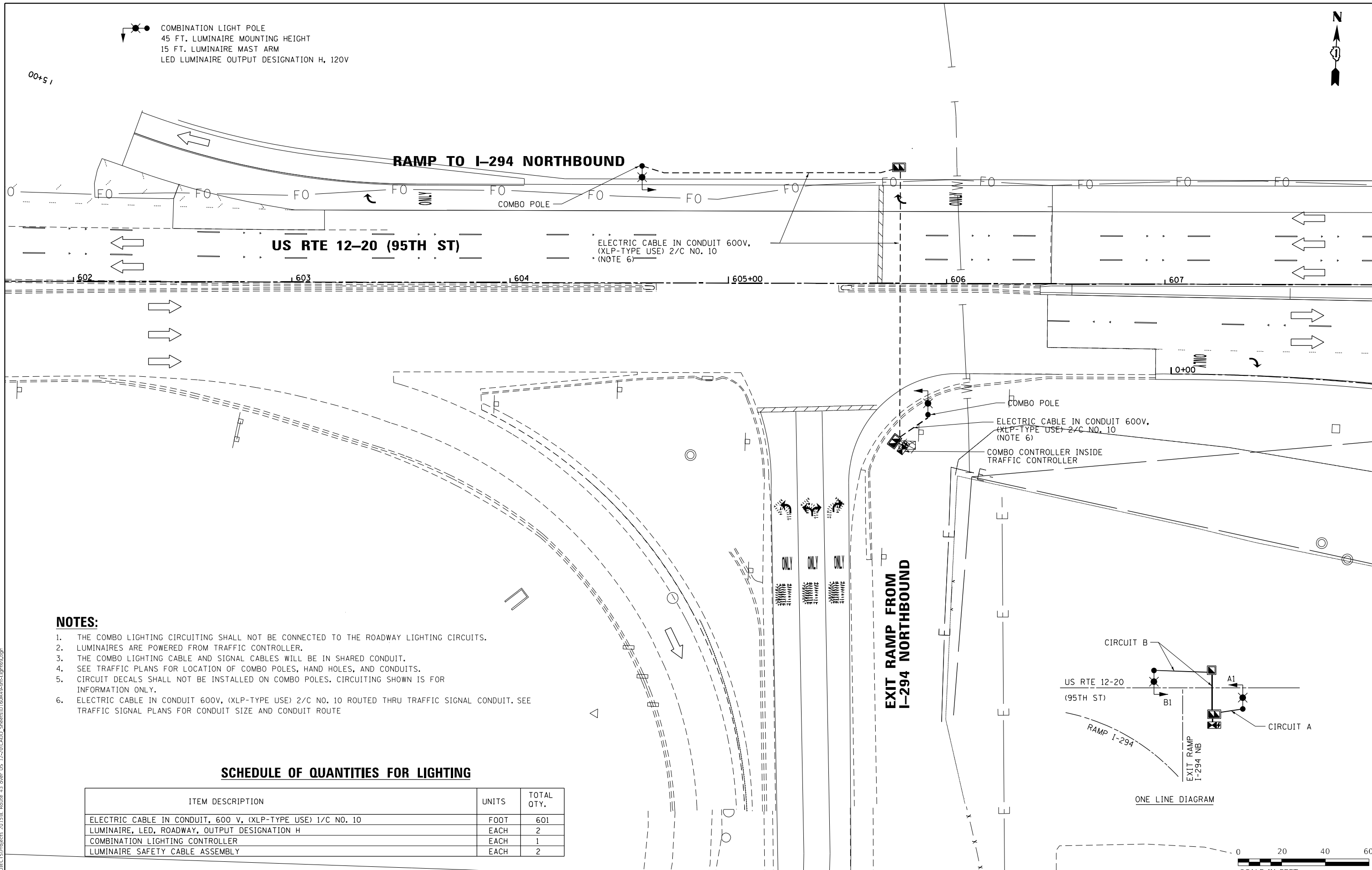
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PROPOSED LIGHTING COMBINATION POLE PLAN
 ILLINOIS ROUTE 43 (HARLEM AVE) AT RAMP E**

SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 29 & 34R	SECTION 312B-Z-I-R&S	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 381
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				

COMBINATION LIGHT POLE
 45 FT. LUMINAIRE MOUNTING HEIGHT
 15 FT. LUMINAIRE MAST ARM
 LED LUMINAIRE OUTPUT DESIGNATION H, 120V

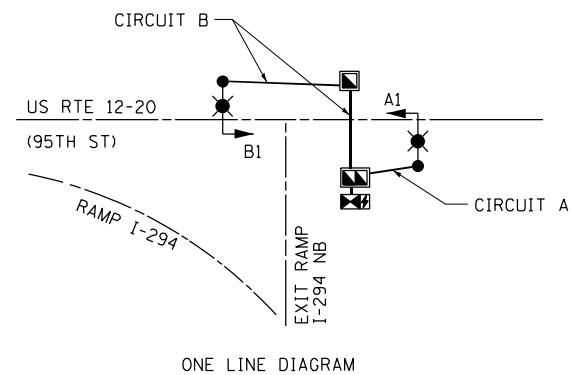


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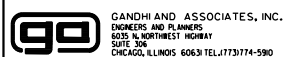
1. THE COMBO LIGHTING CIRCUITING SHALL NOT BE CONNECTED TO THE ROADWAY LIGHTING CIRCUITS.
2. LUMINAIRES ARE POWERED FROM TRAFFIC CONTROLLER.
3. THE COMBO LIGHTING CABLE AND SIGNAL CABLES WILL BE IN SHARED CONDUIT.
4. SEE TRAFFIC PLANS FOR LOCATION OF COMBO POLES, HAND HOLES, AND CONDUITS.
5. CIRCUIT DECALS SHALL NOT BE INSTALLED ON COMBO POLES. CIRCUITING SHOWN IS FOR INFORMATION ONLY.
6. ELECTRIC CABLE IN CONDUIT 600V, (XLP-TYPE USE) 2/C NO. 10 ROUTED THRU TRAFFIC SIGNAL CONDUIT. SEE TRAFFIC SIGNAL PLANS FOR CONDUIT SIZE AND CONDUIT ROUTE

SCHEDULE OF QUANTITIES FOR LIGHTING

ITEM DESCRIPTION	UNITS	TOTAL QTY.
ELECTRIC CABLE IN CONDUIT, 600 V, (XLP-TYPE USE) 1/C NO. 10	FOOT	601
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	2
COMBINATION LIGHTING CONTROLLER	EACH	1
LUMINAIRE SAFETY CABLE ASSEMBLY	EACH	2



MODEL Default
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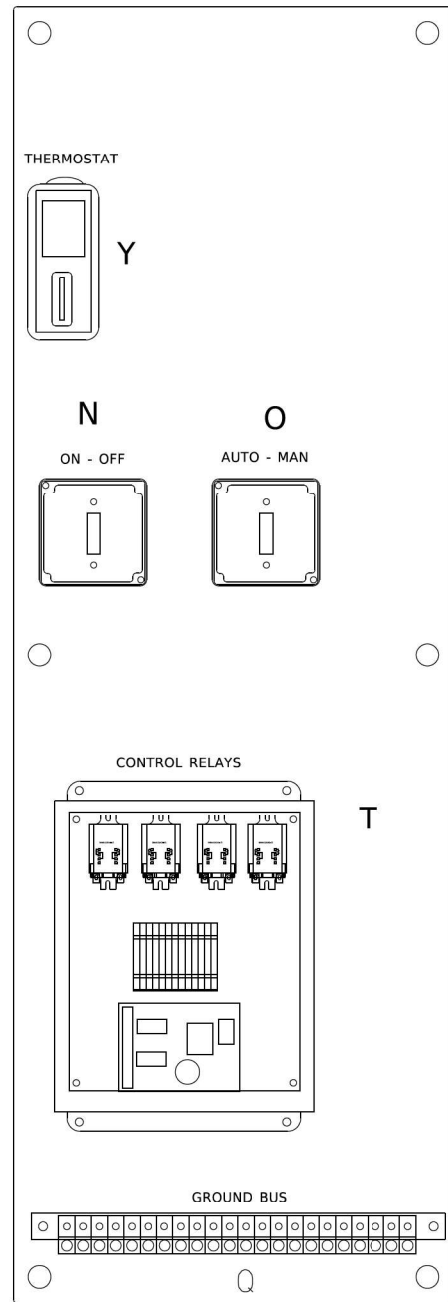
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

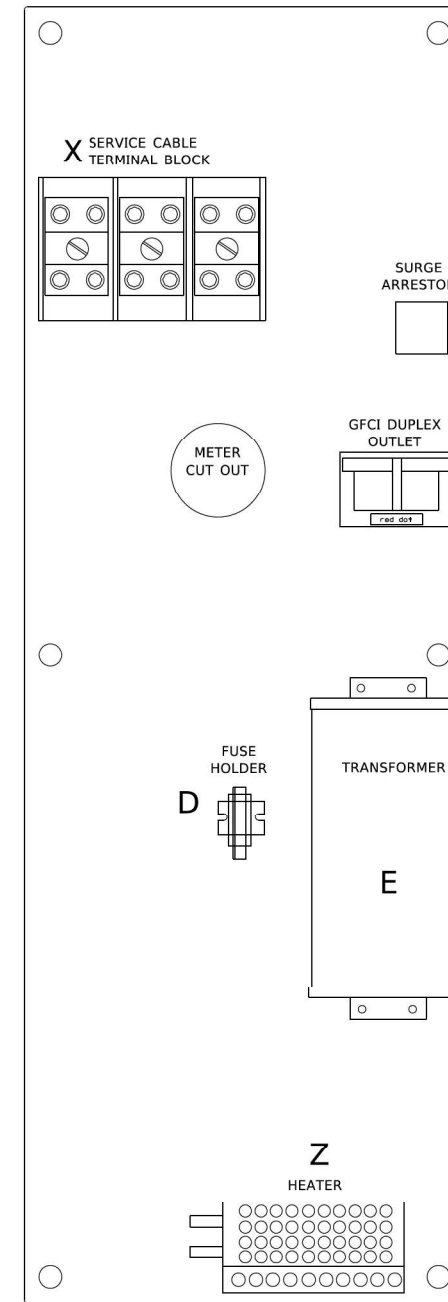
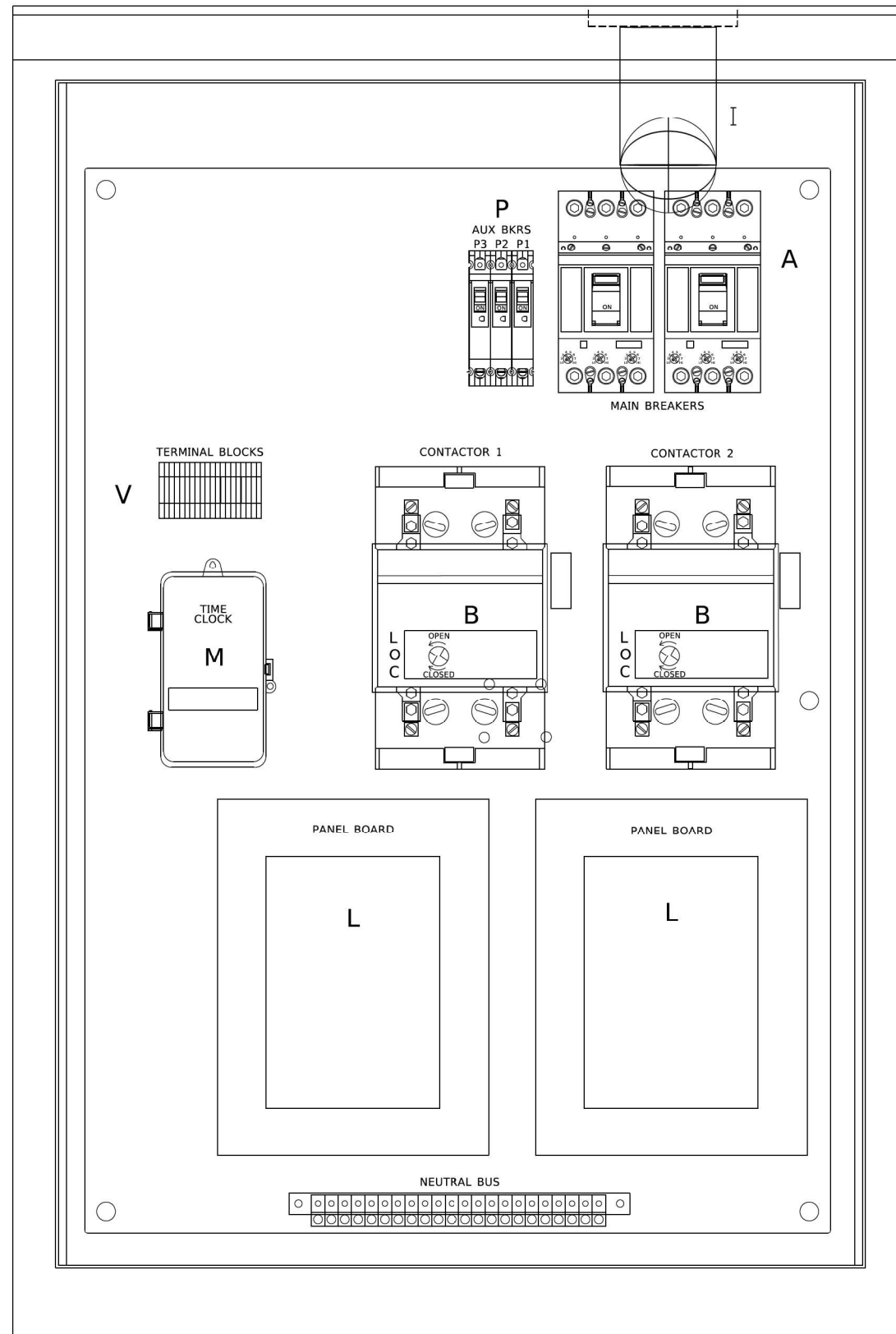
**PROPOSED LIGHTING COMBINATION POLE PLAN
 US RTE 12-20 (95TH ST) AT NB I-294 EXIT RAMP**

SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&S	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 382
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



LEFT SIDE PANEL



RIGHT SIDE PANEL

BILL OF MATERIALS		
ITEM *	QTY	DESCRIPTION
A	2	MAIN BREAKERS 2 POLE 200 AMP WITH AUX CONTACT
B	2	MECHANICAL CONTRACTOR 2 POLE 200 AMP 240V COIL WITH AUX CONTACTS
D	1	SECTIONAL FUSE HOLDER
E	1	2.0 KVA 277V-240/120 TRASFORMER
G	1	15 AMP GFCI
H	2	DOOR SWITCH
I	1	LIGHT FIXTURE
J	1	METER FITTING 1 PHASE 3 WIRE 200 AMP
K	1	SURGE ARRESTER
L	2	PANEL BOARD 480/240V 1 PHASE, 250 AMP COPPER BUS
M	1	2 CHANNEL DIGITAL TIME CLOCK
N	1	MOMENTARY SWITCH ON - OF
O	1	DPDT 20 AMP AUTO-MANUAL
P1	1	BREAKER 1P 15A
P2	1	BREAKER 1P 15A
P3	1	BREAKER 1P 15A
Q	2	COPPER GROUND AND NEUTRAL BUS 1 X 16 X ¼
T	1	CONTROL RELAY ASSEMBLY 240V COILS WITH DPDT 25 AMP RELAYS (R1,R2,R3,R4). MOMENTARY CONTACT ADAPTER. QTY 12 TERMINAL BLOCKS
V	20	TERMINAL BLOCKS
X	1	620 AMP SPLICE BLOCK
Y	1	CHROMALOX WR 80, 40-80 DFG THERMOSTAT
Z	1	HEATREX 276-10 375 WATT HEATER

*

MODEL: Default
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GA GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60630 TEL: 773-774-590

USER NAME = brice
DESIGNED - MA
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PLOT DATE = 12/14/2023

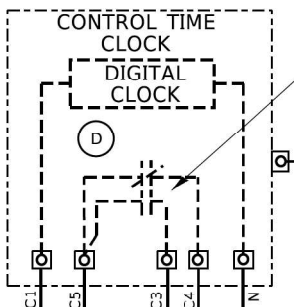
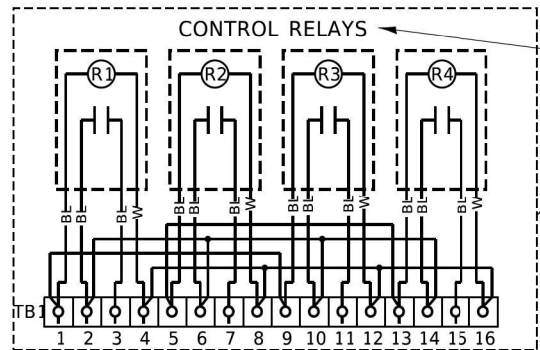
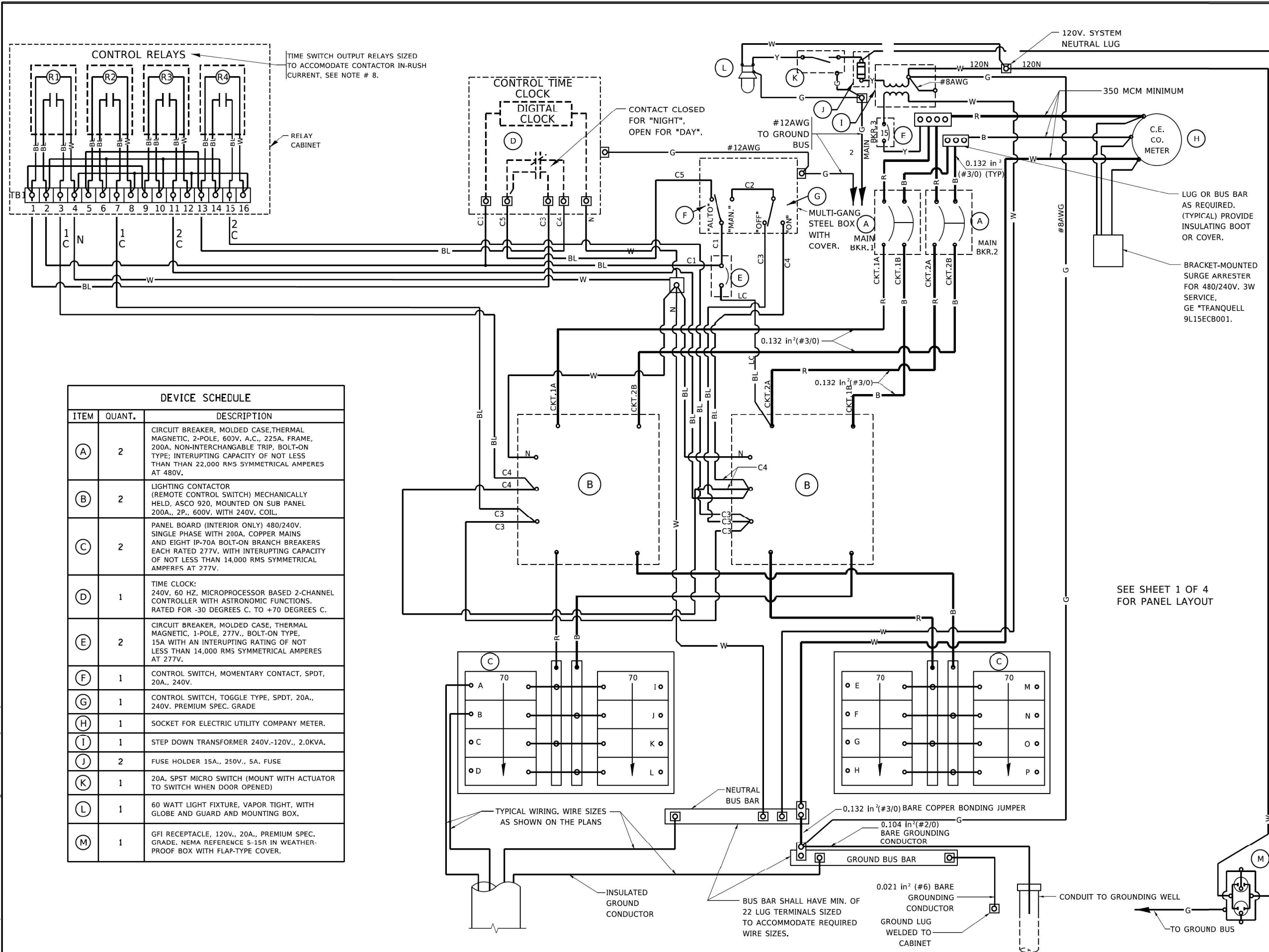
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHTING CONTROLLER, POLE MOUNTED
480 VOLT, 200 AMP, (DUAL)**

SCALE: N.T.S. SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
29 & 348	3128-Z-I-R&S	COOK	659	383
CONTRACT NO. 60R49				
ILLINOIS FED. AID PROJECT				



DEVICE SCHEDULE		
ITEM	QUANT.	DESCRIPTION
(A)	2	CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 2-POLE, 600V, A.C., 225A, FRAME, 200A, NON-INTERCHANGABLE TRIP, BOLT-ON TYPE; INTERRUPTING CAPACITY OF NOT LESS THAN 22,000 RMS SYMMETRICAL AMPERES AT 480V.
(B)	2	LIGHTING CONTACTOR (REMOTE CONTROL SWITCH) MECHANICALLY HELD, ASCO 920, MOUNTED ON SUB PANEL 200A., 2P., 600V. WITH 240V. COIL.
(C)	2	PANEL BOARD (INTERIOR ONLY) 480/240V. SINGLE PHASE WITH 200A. COPPER MAINS AND EIGHT IP-70A BOLT-ON BRANCH BREAKERS EACH RATED 277V. WITH INTERRUPTING CAPACITY OF NOT LESS THAN 14,000 RMS SYMMETRICAL AMPERES AT 277V.
(D)	1	TIME CLOCK: 240V, 60 HZ, MICROPROCESSOR BASED 2-CHANNEL CONTROLLER WITH ASTRONOMIC FUNCTIONS. RATED FOR -30 DEGREES C. TO +70 DEGREES C.
(E)	2	CIRCUIT BREAKER, MOLDED CASE, THERMAL MAGNETIC, 1-POLE, 277V., BOLT-ON TYPE, 15A WITH AN INTERRUPTING RATING OF NOT LESS THAN 14,000 RMS SYMMETRICAL AMPERES AT 277V.
(F)	1	CONTROL SWITCH, MOMENTARY CONTACT, SPDT, 20A., 240V.
(G)	1	CONTROL SWITCH, TOGGLE TYPE, SPDT, 20A., 240V. PREMIUM SPEC. GRADE
(H)	1	SOCKET FOR ELECTRIC UTILITY COMPANY METER.
(I)	1	STEP DOWN TRANSFORMER 240V.-120V., 2.0KVA.
(J)	2	FUSE HOLDER 15A., 250V., 5A. FUSE
(K)	1	20A. SPST MICRO SWITCH (MOUNT WITH ACTUATOR TO SWITCH WHEN DOOR OPENED)
(L)	1	60 WATT LIGHT FIXTURE, VAPOR TIGHT, WITH GLOBE AND GUARD AND MOUNTING BOX.
(M)	1	GFI RECEPTACLE, 120V., 20A., PREMIUM SPEC. GRADE. NEMA REFERENCE 5-15R IN WEATHER-PROOF BOX WITH FLAP-TYPE COVER.

- NOTES:
- ALL CONTROL CABINET ITEMS SHALL HAVE SUITABLE IDENTIFICATION. OPEN CIRCUIT BREAKERS, CONTACTORS AND OTHER OPEN DEVICES SHALL HAVE SELF STICKING TAGS.
 - INTERNAL CABINET WIRING SHALL BE IDENTIFIED AS INDICATED OR AS DIRECTED BY THE ENGINEER BY MEANS OF SELF-STICKING TAGS APPLIED AT EACH CONNECTED END. IDENTIFICATION SHALL BE MADE BY THE CABINET MANUFACTURER.
 - ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.
 - R = RED Y = YELLOW
 - B = BLACK W = WHITE
 - BL = BLUE G = GREEN
 - PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
 - ALL 120 VOLT SYSTEM AND ALL CONTROL WIRING SHALL BE #12AWG STRANDED UNLESS OTHERWISE INDICATED.
 - ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
 - THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL"
 - SEE CABINET AND FOUNDATION DETAIL SHEET FOR SCHEMATIC DIAGRAM AND DEVICE LAYOUT.
 - CONTROL RELAYS CAN BE ELIMINATED IF THE CONTROL TIME CLOCK OUTPUT CONTACTS ARE RATED FOR CONTACTOR INRUSH CURRENT.

SEE SHEET 1 OF 4 FOR PANEL LAYOUT

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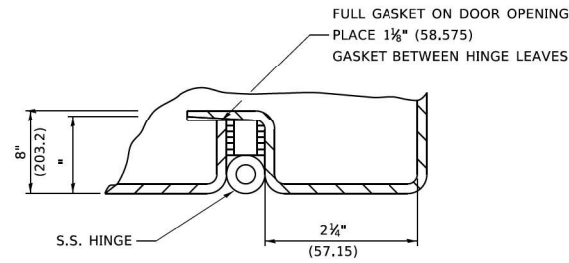


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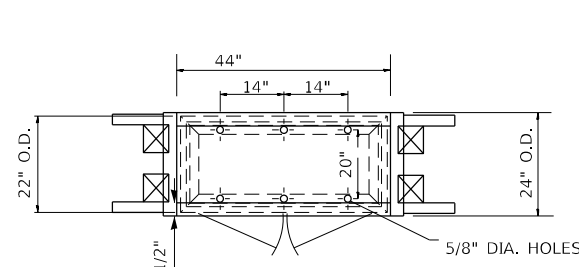
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY LIGHTING CONTROLLER, POLE MOUNTED 480 VOLT, 200 AMP, (DUAL)			
SCALE: N.T.S.	SHEET 2 OF 4 SHEETS	STA. TO STA.	

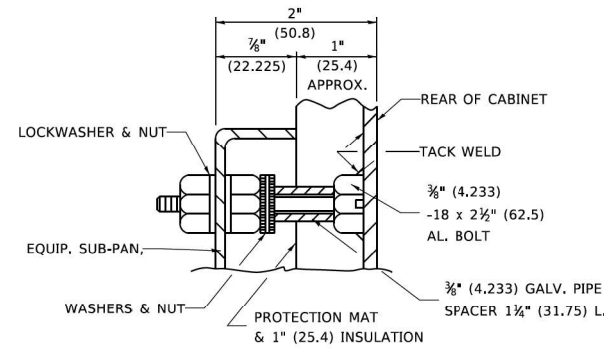
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 60R49	



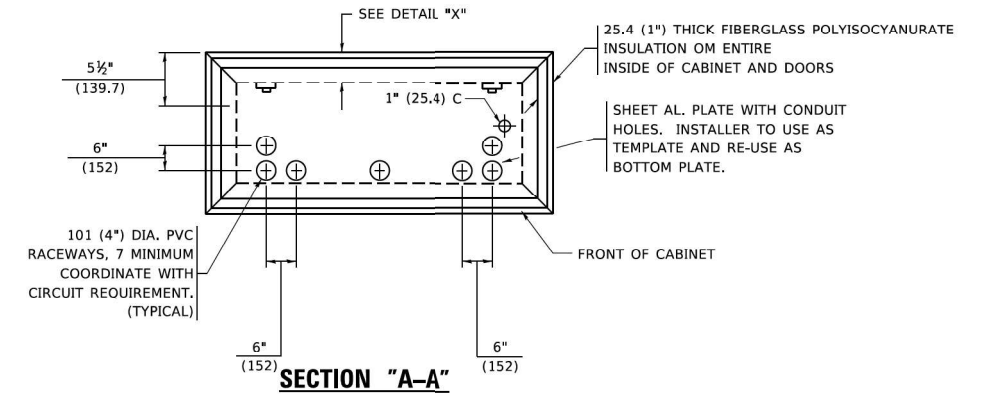
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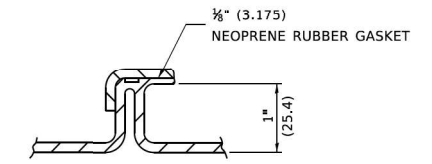
PLAN VIEW



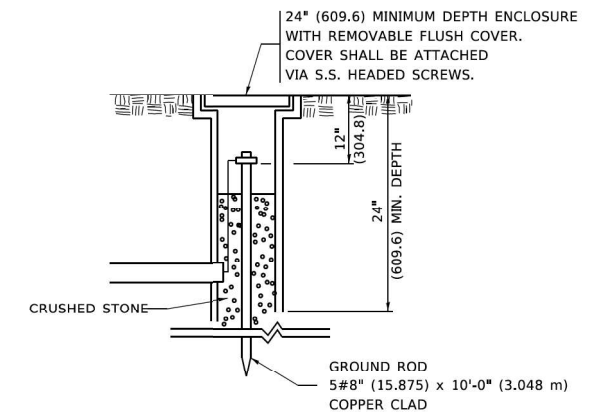
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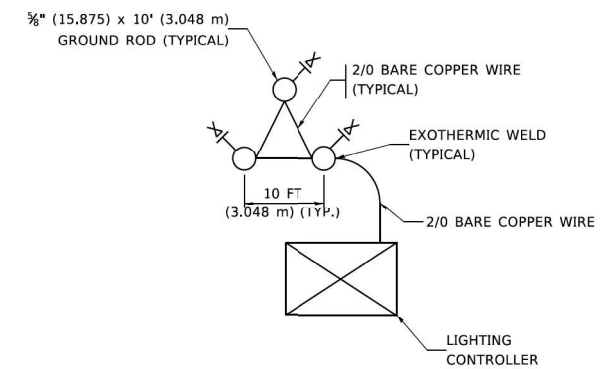
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DETAIL "Z"

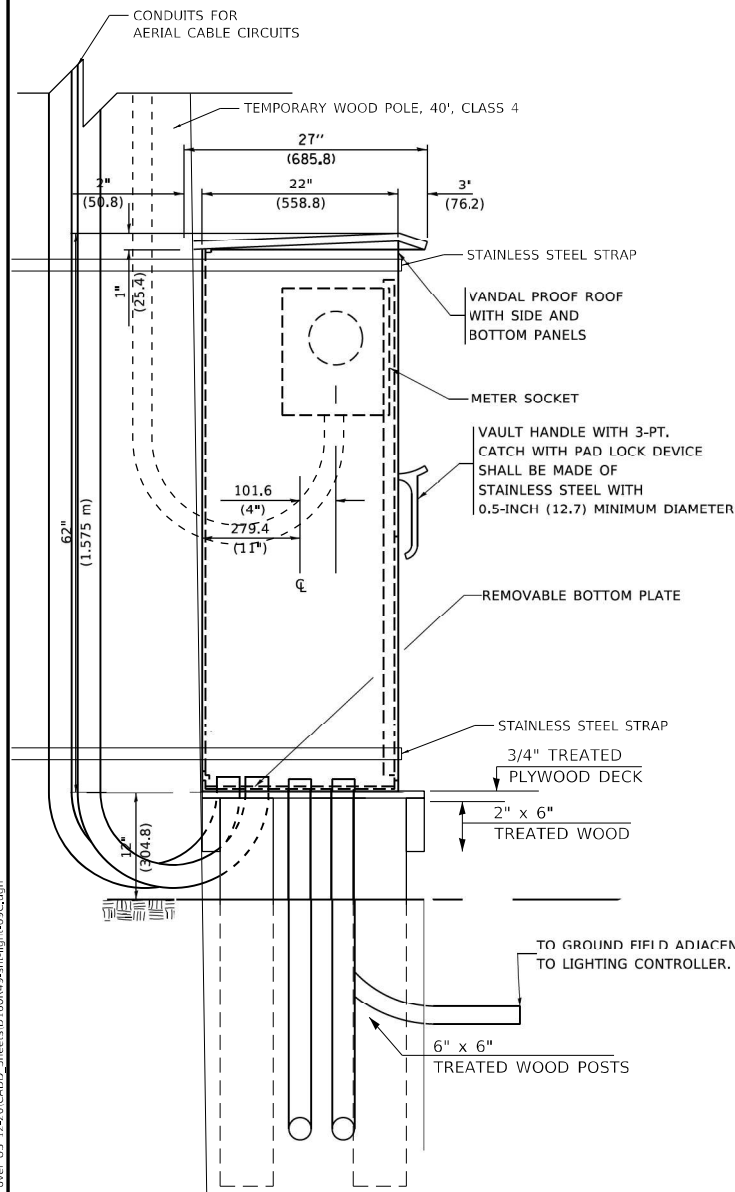


GROUND WELL DETAIL

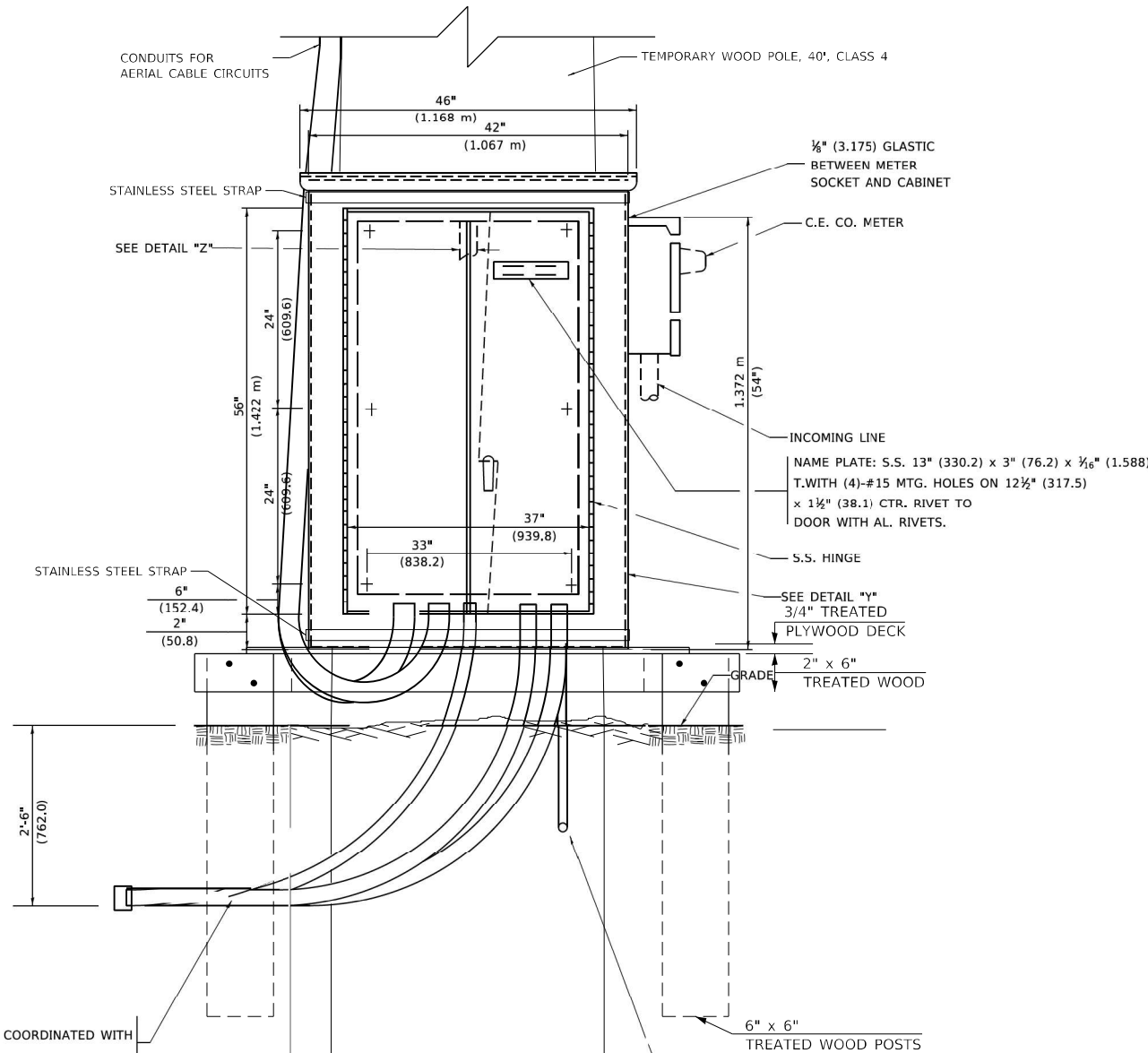


GROUND FIELD DETAIL (N.T.S.)

THE CONTRACTOR SHALL VERIFY EXACT LOCATION WITH THE ENGINEER



LEFT SIDE ELEVATION



FRONT ELEVATION

1-INCH (25.4) R.S.C. TO GROUND FIELD OF 3 GROUND RODS IN A 10 FT (3.048 m). TRIANGLE CONNECTED VIA BARE COPPER WIRE. VERIFY EXACT LOCATION OF GROUND FIELD WITH THE ENGINEER.

ORIENTATION OF RACEWAYS SHALL BE COORDINATED WITH CIRCUIT DIRECTIONS

MODEL: Default
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US 12-20-CADD-Sheets\160R49-sh-light-60R.dwg



USER NAME = brice	DESIGNED - MA	REVISED -
	DRAWN - BR	REVISED -
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PLOT DATE = 12/14/2023	DATE - 2023-12-14	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY LIGHTING CONTROLLER, POLE MOUNTED
480 VOLT, 200 AMP, (DUAL)**

SCALE: N.T.S. SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&S	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 385
CONTRACT NO. 60R49			ILLINOIS FED. AID PROJECT	

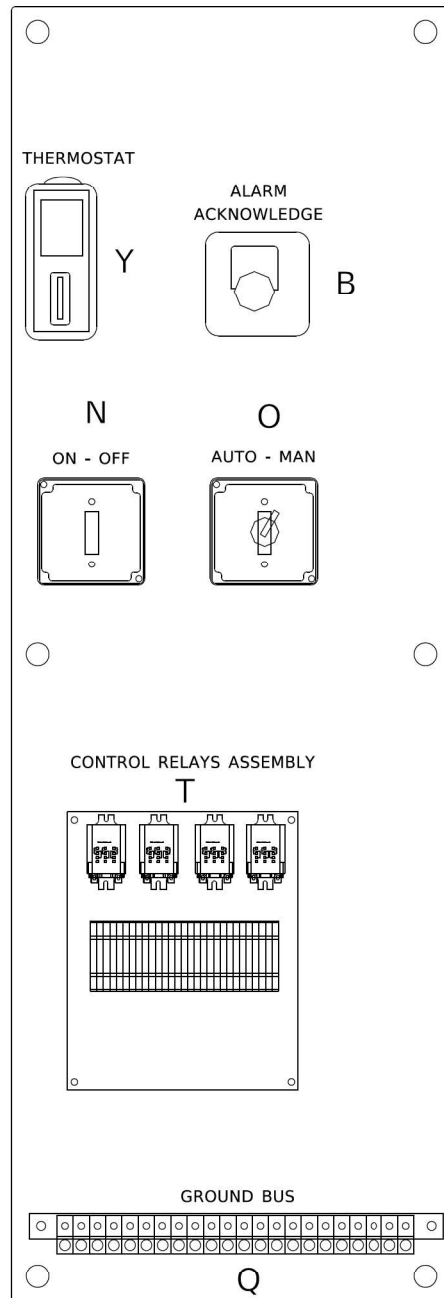
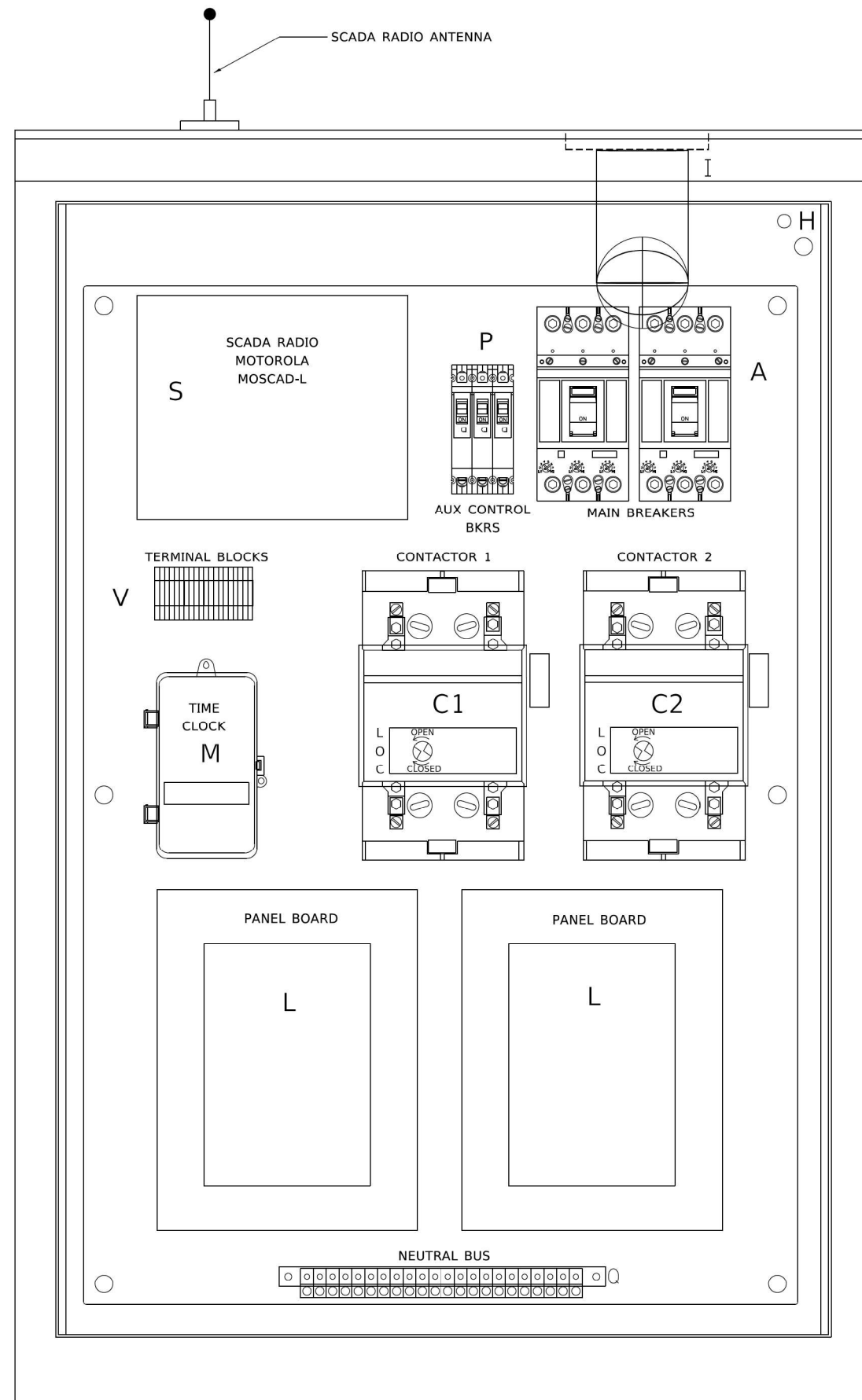
NOTES:

1. CABINET SHALL BE FABRICATED FROM 0.125-INCH (3.175) SHEET ALUMINUM #3003H14, FORMED AND ARC WELDED ASSEMBLY.
2. ALL SCREWS AND HARDWARE SHALL BE PLATED, GALVANIZED, OR MADE OF BRASS, ALUMINUM OR STAINLESS STEEL.
- 3-5. NOT USED.
6. ELECTRIC UTILITY METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET AS SHOWN ON THE PANEL LAYOUT DIAGRAM.
7. THE COMPLETED CONTROLLER SHALL BE U.L. LISTED AS AN INDUSTRIAL CONTROL PANEL UNDER UL508.
8. METAL MOUNTING PANEL SHALL BE #10 GAUGE GALVANIZED SHEET STEEL FLANGED BACK 0.75-INCHES I.D. ON 4 SIDES.
9. CIRCUIT BREAKERS AND CONTACTORS AND OTHER COMPONENTS SHALL BE MOUNTED ON 0.125-INCH (3.175) THICK GLASTIC INSULATION BACK PANEL.
10. ALL DEVICES SHALL BE FRONT REMOVABLE.
11. TIME CLOCK CHANNEL 1 N.O. CONTACT IS CLOSED NIGHT AND OPEN DAY.
12. SET "ON TIME" TO 30 MINUTES AFTER ASTRONOMICAL SUNSET.
13. BUS BAR SHALL HAVE 22 LUG TERMINALS SIZED TO ACCOMMODATE REQUIRED WIRE SIZES. NEUTRAL BUS SHALL BE PAINTED WHITE. GROUND BUS SHALL BE PAINTED GREEN.
14. ALL LUGS SHALL BE OF COPPER SCREWS AND CONNECTORS, SPRING HELD.
15. ALL WIRING TERMINATIONS SHALL BE RATED NOT LESS THAN 75 DEGREE CENTIGRADE.
16. ALL CONTROL WIRING SHALL BE 600V MACHINE TOOL WIRE TYPE MTW.
17. ALL POWER WIRING SHALL BE 600V TYPE RHH/RHW.
18. ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:

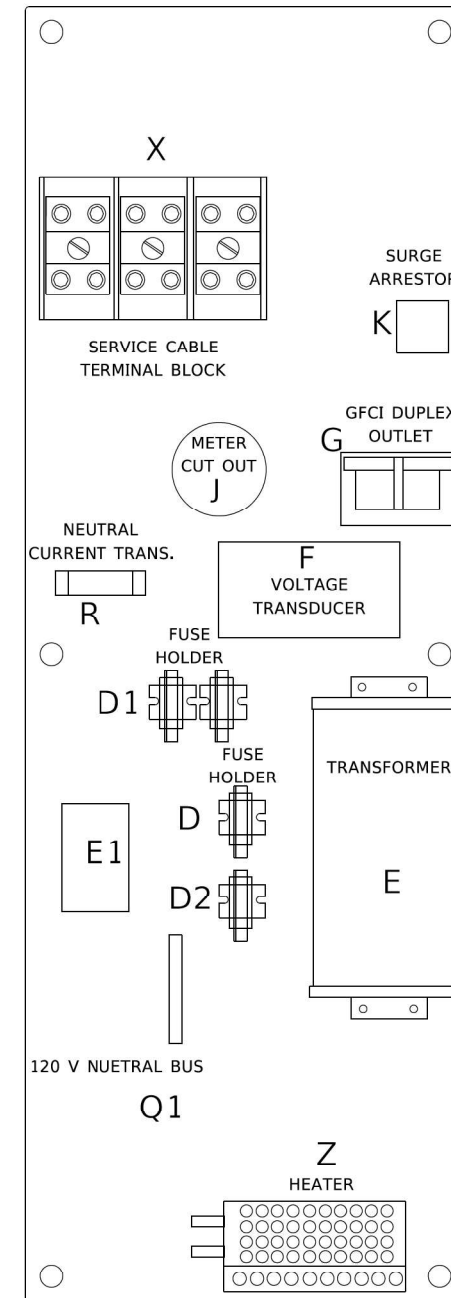
R - RED	Y - YELLOW
B - BLACK	W - WHITE
BL - BLUE	G - GREEN
19. ALL DIMENSIONS ARE IN MILIMETERS (INCHES) UNLESS OTHERWISE INDICATED.
20. SCHEMATIC SHOWN WITH BREAKER OPEN, CONTACTOR OPEN, CABINET DOOR CLOSED, CLOCK NOT ACTIVE.
21. A LAMINATED COPY OF THE CIRCUIT SCHEMATIC AND SCADA I/O DIAGRAM SHALL BE ATTACHED TO THE INSIDE OF THE CONTROLLER.

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	GANDHI AND ASSOCIATES, INC. ENGINEERS AND PLANNERS 6035 N. NORTHWEST HIGHWAY SUITE 300 CHICAGO, ILLINOIS 60630 TEL: 773-774-5900	USER NAME = brice DESIGNED - MA DRAWN - BR CHECKED - NT DATE - 2023-12-14	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TEMPORARY LIGHTING CONTROLLER, POLE MOUNTED 480 VOLT, 200 AMP, (DUAL)	F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 386
	PLOT SCALE = 0:2.0000 " = 1/4" in. PLOT DATE = 12/14/2023		SCALE: N.T.S. SHEET 4 OF 4 SHEETS STA. TO STA.			CONTRACT NO. 60R49 ILLINOIS FED. AID PROJECT				
	A LAMINATED COPY OF THE CIRCUIT SCHEMATIC AND SCADA I/O DIAGRAM SHALL BE ATTACHED TO THE INSIDE OF THE CONTROLLER.									



LEFT SIDE PANEL



RIGHT SIDE PANEL

BILL OF MATERIALS		
ITEM	QTY	DESCRIPTION
A	2	MAIN CIRCUIT BREAKERS 2 POLE 200 AMP WITH AUX CONTACT
B	1	ALARM ACKNOWLEDGE WITH YELLOW INSERT
C1, C2*	2	CONTACTOR 2 POLE 200 AMP 240V COIL WITH AUX CONTACTS
D	1	FINGERSAFE FUSE HOLDER WITH KTK - 20A FUSE
D1	2	FINGERSAFE FUSE HOLDER WITH KTK - 1/2 A FUSE
D2	1	FINGERSAFE FUSE HOLDER WITH KTK - 2A FUSE
E	1	2.0 KVA 277V-240/120 TRANSFORMER
E1	1	0.25 KVA240/ 120 - 24 VAC TRANSFORMER
F	1	VOLTAGE TRANSDUCER WITH COVER TERMINALS
G	1	20 AMP GFCI DUPLEX OUTLET W/COVER
H	2	DOOR SWITCH
I	1	LIGHT FIXTURE
J	1	METER FITTING 1 PHASE 3 WIRE 200 AMP
K	1	SURGE ARRESTER
L	2	PANEL BOARD 480/ 240V 1 PHASE, 250 AMP COPPER BUS
M	1	2 CHANNEL DIGITAL TIME CLOCK
N	1	MOMENTARY SWITCH ON - OFF
O	1	SQUARE D, 9001KS11BH13, 2 POSITION SWITCH IN 9001KY1 ENCLOSURE OR APPROVED EQUAL
P	2	BREAKER 1P 15A
Q	2	COPPER GROUND AND NEUTRAL BUS 1 X 16 X 1/4
Q1	1	COPPER NEUTRAL BUS WITH 1 #6 AND 8 #12 CONDUCTOR POINTS
R	1	CURRENT TRANSDUCER
S	1	MOTOROLA MOSCAD-L RADIO, 240 V
T*	1	CONTROL RELAY ASSEMBLY 240V COILS WITH 4 - 3PDT 25A RELAYS (W389ACX-15) (R1, R2, R3, R4). QTY 32 TERMINAL BLOCKS
V	20	TERMINAL BLOCKS
X*	1	620 AMP SPLICE BLOCK
Y	1	40-80 DEGREE THERMOSTAT
Z	1	375 WATT HEATER

* TERMINALS SHALL BE COVERED WITH CLEAR PLEXIGLASS SHEET

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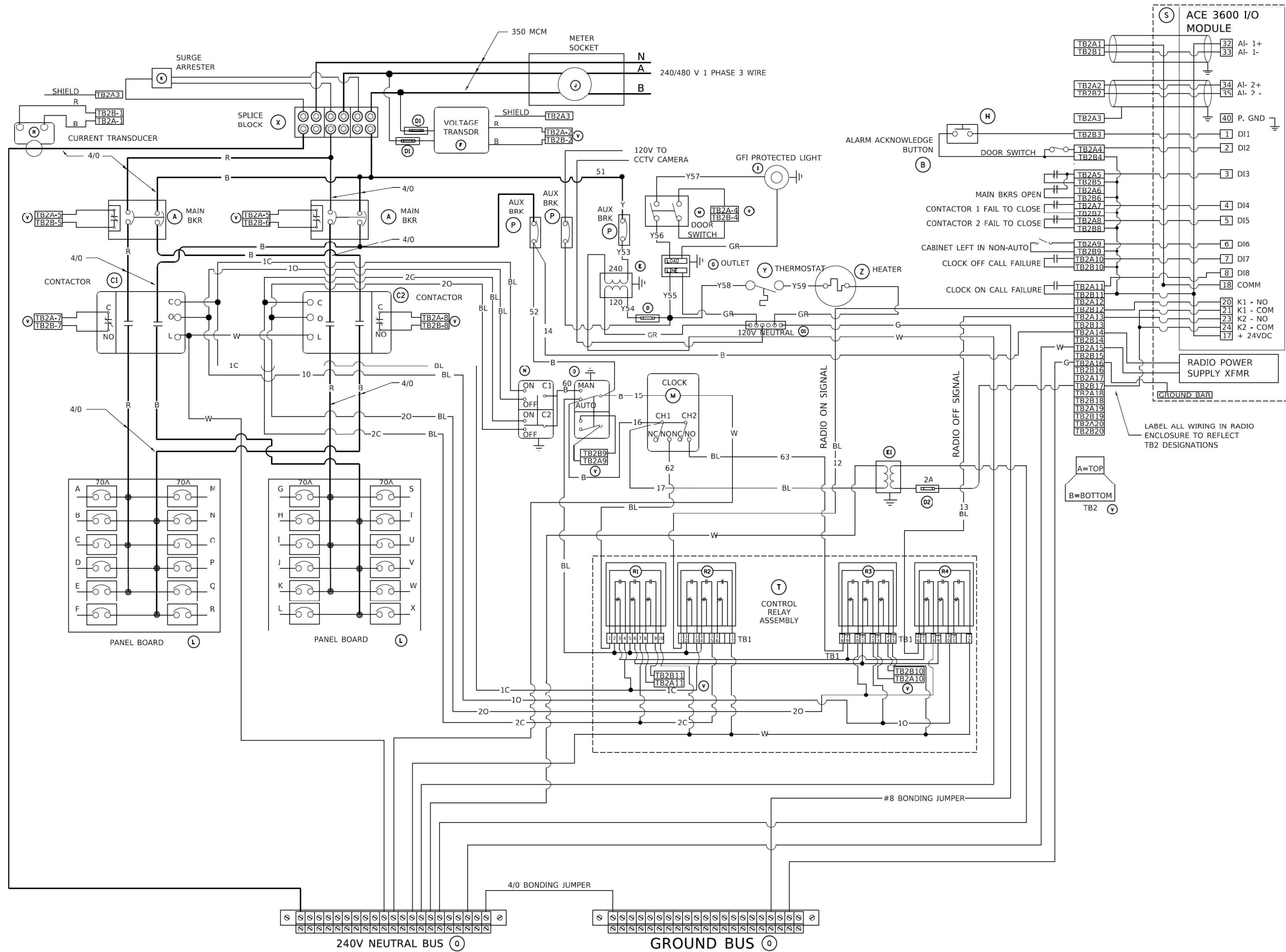
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PLOT SCALE = 50,0000 ' / ft.	DRAWN -	REVISED - R. TOMSONS 05-11-09
PLOT DATE = 4/19/2019	CHECKED -	REVISED - R. TOMSONS 03-10-10
	DATE -	REVISED - R. TOMSONS 03-29-12

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING CONTROLLER, BASE MOUNTED,
480VOLT, 200AMP (DUAL) RADIO SCADA

SCALE: NONE SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 387
BE-205		CONTRACT NO. 60R49		
ILLINOIS FED. AID PROJECT				



BILL OF MATERIALS		
ITEM	QTY	DESCRIPTION
A	2	MAIN CIRCUIT BREAKERS 2 POLE 200 AMP WITH AUX CONTACT
B	1	ACKNOWLEDGE SWITCH, PUSH BUTTON WITH YELLOW INSERT
C1, C2*	2	CONTACTOR 2 POLE 200 AMP 240V COIL WITH AUX CONTACTS
D	1	FINGERSAFE FUSE HOLDER WITH KTK - 20A FUSE
D1	2	FINGERSAFE FUSE HOLDER WITH KTK - 1/2 A FUSE
D2	1	FINGERSAFE FUSE HOLDER WITH KTK - 2A FUSE
E	1	2.0 KVA 277V-240/120 TRANSFORMER
E1	1	0.25 KVA240/ 120 - 24 VAC TRANSFORMER
F	1	VOLTAGE TRANSDUCER WITH COVER TERMINALS
G	1	20 AMP GFCI DUPLEX OUTLET W/COVER
H	2	DOOR SWITCH
I	1	LIGHT FIXTURE
J	1	METER FITTING 1 PHASE 3 WIRE 200 AMP
K	1	SURGE ARRESTER
L	2	PANEL BOARD 480/ 240V 1 PHASE, 250 AMP COPPER BUS
M	1	2 CHANNEL DIGITAL TIME CLOCK
N	1	MOMENTARY SWITCH ON - OFF
O	1	SQUARE D, 9001K511BH13, 2 POSITION SWITCH IN 9001KY1 ENCLOSURE OR APPROVED EQUAL
P	2	BREAKER 1P 15A
Q	2	COPPER GROUND AND NEUTRAL BUS 1 X 16 X 1/4
Q1	1	COPPER NEUTRAL BUS WITH 1 #6 AND 8 #12 CONDUCTOR POINTS
R	1	CURRENT TRANSDUCER
S	1	MOTOROLA MOSCAD-L RADIO, 240 V
T*	1	CONTROL RELAY ASSEMBLY 240V COILS WITH 4 - 3PDT 25A RELAYS (W389ACX-15) (R1, R2, R3, R4). QTY 32 TERMINAL BLOCKS
V	20	TERMINAL BLOCKS
X*	1	620 AMP SPLICE BLOCK
Y	1	40-80 DEGREE THERMOSTAT
Z	1	375 WATT HEATER

* TERMINALS SHALL BE COVERED WITH CLEAR PLEXIGLASS SHEET

MODEL: Default
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GA GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60630 TEL: 773-774-590

USER NAME = footemj	DESIGNED -	REVISED - R. TOMSONS 08-19-04
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PLOT DATE = 4/19/2019	CHECKED -	REVISED - R. TOMSONS 03-10-10
	DATE -	REVISED - R. TOMSONS 03-29-12

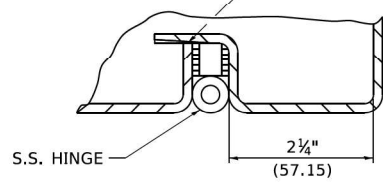
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LIGHTING CONTROLLER, BASE MOUNTED,
480VOLT, 200AMP (DUAL) RADIO SCADA**

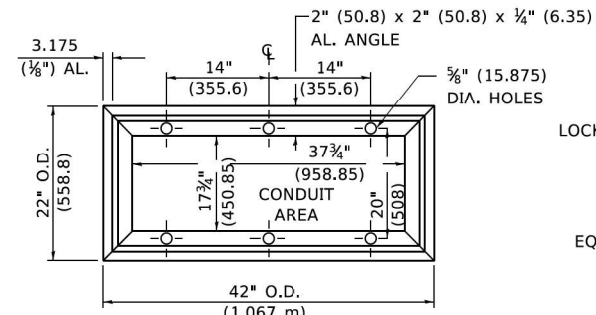
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BE-205		CONTRACT NO. 60R49		
ILLINOIS FED. AID PROJECT				

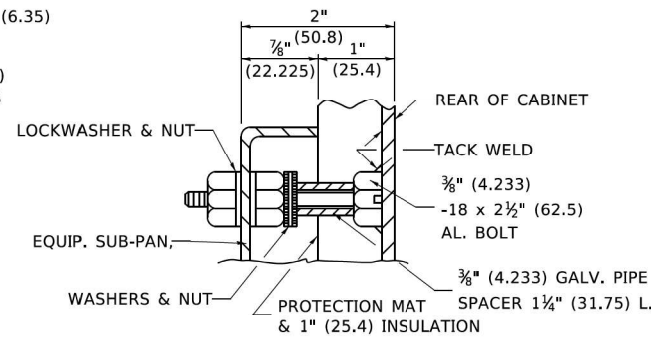
FULL GASKET ON DOOR OPENING
PLACE 1 1/2" (58.575)
GASKET BETWEEN HINGE LEAVES



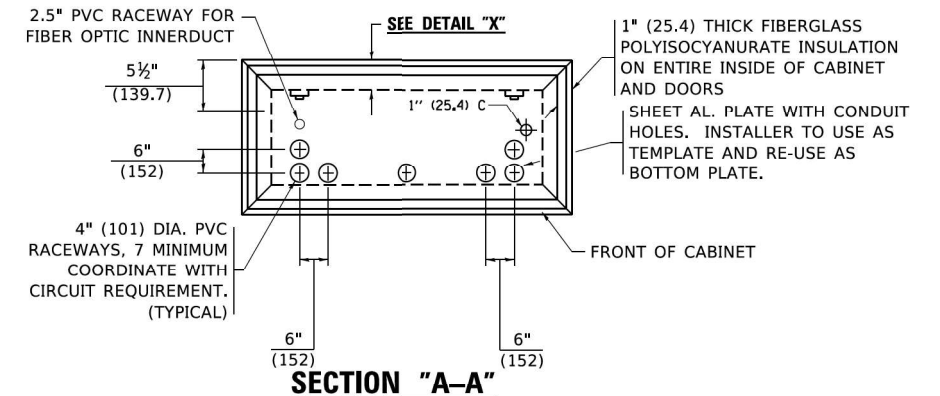
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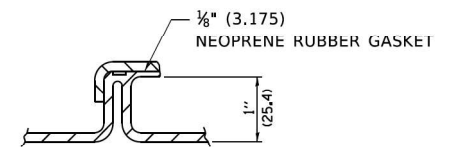
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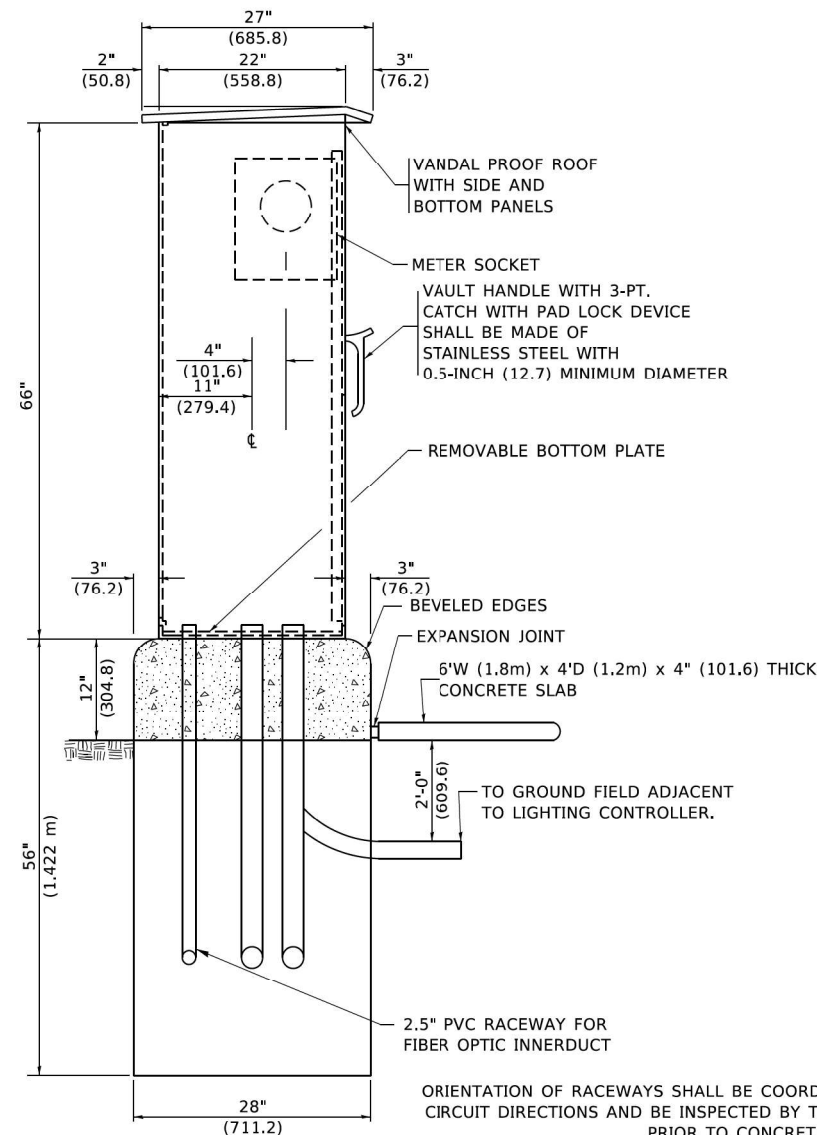
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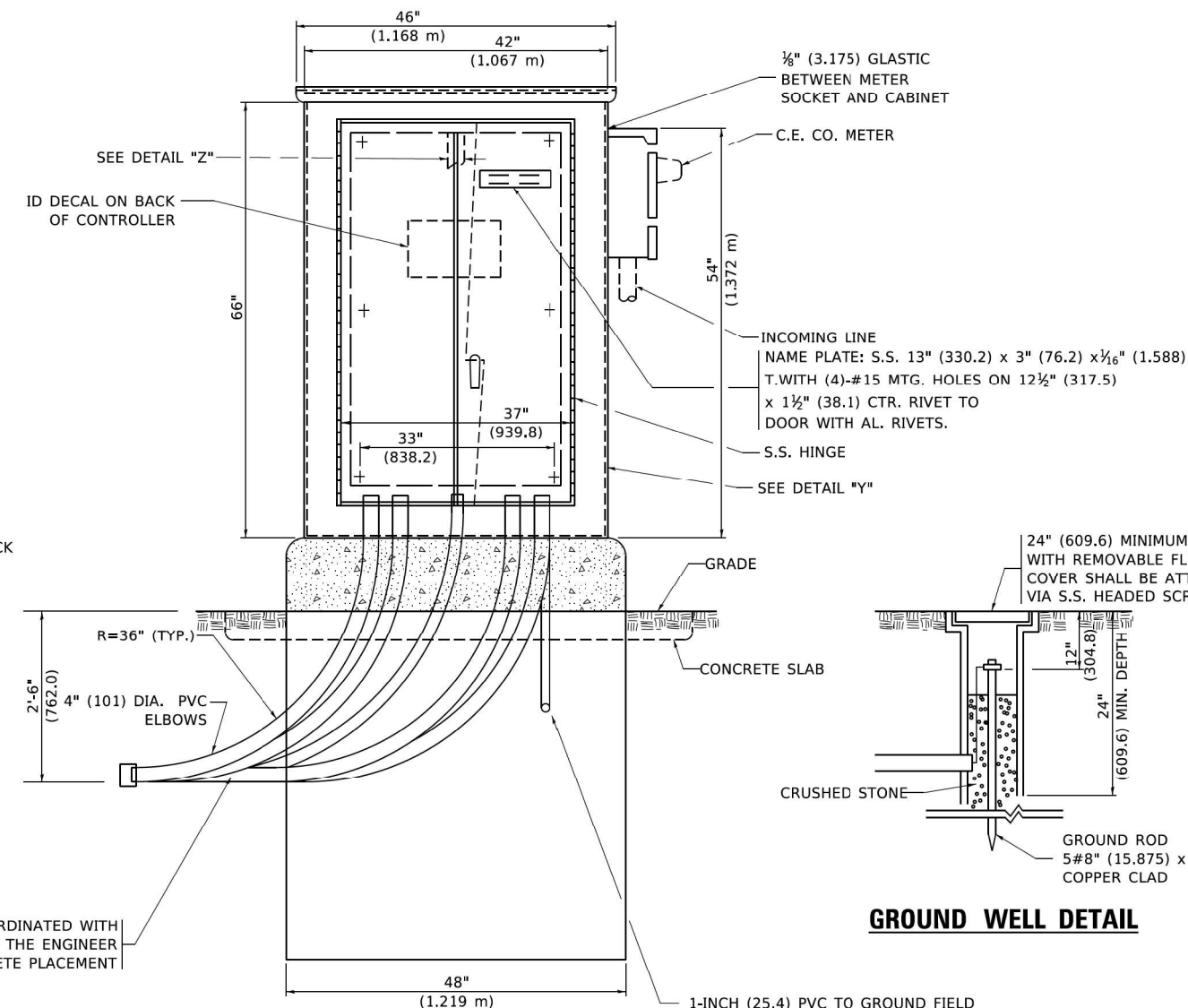
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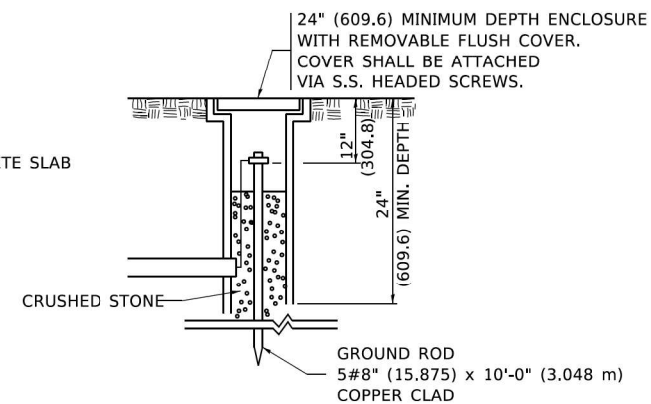
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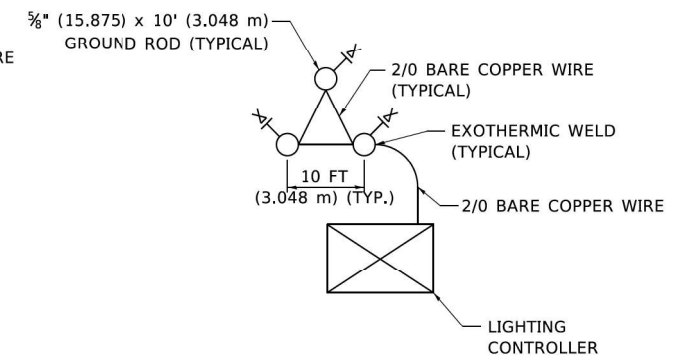
LEFT SIDE ELEVATION



FRONT ELEVATION



GROUND WELL DETAIL

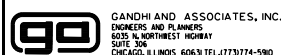


GROUND FIELD DETAIL (N.T.S.)

THE CONTRACTOR SHALL
VERIFY EXACT LOCATION
WITH THE ENGINEER

1-INCH (25.4) PVC TO GROUND FIELD
OF 3 GROUND RODS IN A 10 FT (3.048 m).
TRIANGLE CONNECTED VIA BARE COPPER
WIRE. VERIFY EXACT LOCATION OF
GROUND FIELD WITH THE ENGINEER.
NO GROUND WELL SHALL BE PLACED
IN CONCRETE PAD IN FRONT OF CONTROLLER.

MODEL: Default
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USER NAME = footemj
DESIGNED -
DRAWN -
PLOT SCALE = 50.0000' / 1"
PLOT DATE = 4/19/2019

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED - R. TOMSONS 05-11-09
REVISED - R. TOMSONS 03-10-10
REVISED - R. TOMSONS 03-29-12
REVISED - R. TOMSONS 07-21-17

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING CONTROLLER, BASE MOUNTED,
480VOLT, 200AMP (DUAL) RADIO SCADA

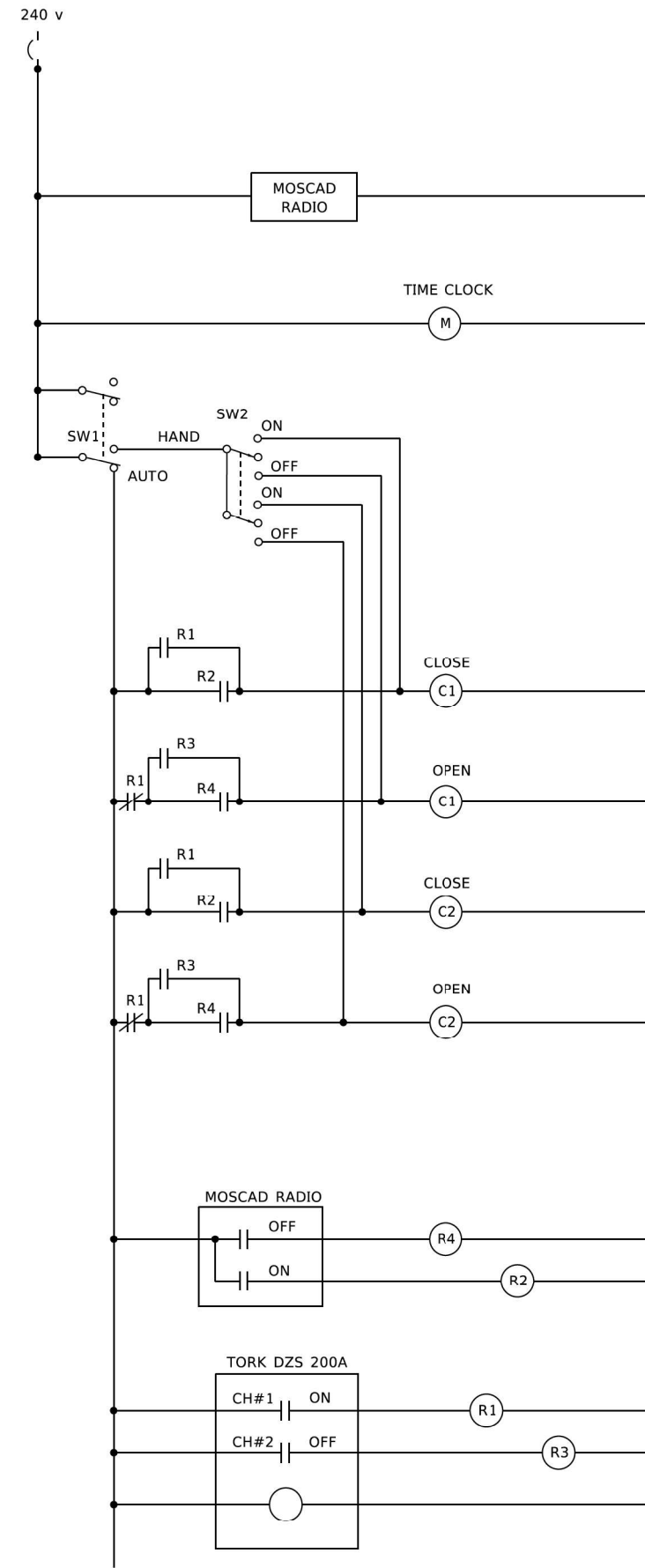
SCALE: NONE SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 389
BE-205		CONTRACT NO. 60R49		
ILLINOIS FED. AID PROJECT				

NOTES

- CABINET SHALL BE FABRICATED FROM 0.125-INCH (3.175) SHEET ALUMINUM #3003H14, FORMED AND ARC WELDED.
- ALL SCREWS AND HARDWARE SHALL BE PLATED, GALVANIZED, OR MADE OF BRASS, ALUMINUM OR STAINLESS STEEL, UNLESS OTHERWISE NOTED.
- NAME PLATE SHALL HAVE ENGRAVED 0.75-INCH (19.05) HIGH LETTERS FILLED IN BLACK: "STATE OF ILLINOIS LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.
- ONE INCH THICK POLYISOCYANURATE INSULATION SHALL BE INSTALL AND PERMANENTLY CEMENTED ON ALL SIDES OF THE CABINET AND DOORS.
- CABINET SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- ELECTRIC UTILITY METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET AS SHOWN ON THE PANEL LAYOUT DIAGRAM.
- THE COMPLETED CONTROLLER SHALL BE U.L. LISTED AS AN INDUSTRIAL CONTROL PANEL UNDER UL508.
- METAL MOUNTING PANEL SHALL BE FABRICATED FROM THE SAME MATERIAL AS THE CABINET AND SHALL BE FLANGED BACK 0.75-INCHES I.D. ON 4 SIDES.
- CIRCUIT BREAKERS AND CONTACTORS AND OTHER COMPONENTS SHALL BE MOUNTED ON 0.125-INCH (3.175) THICK GLASTIC INSULATION BACK PANEL.
- ALL DEVICES SHALL BE FRONT REMOVABLE.
- TIME CLOCK CHANNEL 1 N.O. CONTACT IS CLOSED NIGHT AND OPEN DAY (LIGHTS ON).
- SET LATITUDE TO 42 DEGREES. SET CH.1 TO 23 MINUTES AFTER ASTRONOMICAL SUNSET, 50 MINUTES BEFORE ASTRONOMICAL SUNRISE. SET CH.2 TO 60 MINUTES AFTER ASTRONOMICAL SUNSET (WITH A SIGNAL LENGTH OF 1 SECOND), +28 MINUTES AFTER ASTRONOMICAL SUNRISE (WITH A SIGNAL LENGTH OF 7 SECONDS.)
- BUS BAR SHALL HAVE 22 LUG TERMINALS SIZED TO ACCOMMODATE REQUIRED WIRE SIZES. 240V NEUTRAL BUS SHALL BE PAINTED WHITE, GROUND BUS SHALL BE PAINTED GREEN, AND THE 120V NEUTRAL BUS SHALL BE PAINTED GREY.
- ALL LUGS SHALL BE OF COPPER SCREWS AND CONNECTORS, SPRING HELD.
- ALL WIRING TERMINATIONS SHALL BE RATED NOT LESS THAN 75 DEGREE CENTIGRADE.
- ALL CONTROL WIRING SHALL BE 600V #12 TYPE MTW, SCADA WIRING SHALL BE #18.
- ALL POWER WIRING SHALL BE 600V TYPE RHH/RHW.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:

R = RED	Y = YELLOW
B = BLACK	W = WHITE
BL = BLUE	G = GREEN
	GR = GREY
- MOSCAD I/O WIRING SHALL BE:
 DIGITAL INPUT (DI) WIRING SHALL BE #18 MTW PURPLE.
 ANALOG INPUT (AI) WIRING SHALL BE #18, 2/C SHIELDED.
 AI AND DI WIRING MAY BE BUNDLED TOGETHER, BUT SHALL NOT BE BUNDLED WITH OTHER WIRING.
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
- SCHEMATIC SHOWN WITH BREAKER OPEN, CONTACTOR OPEN, CABINET DOOR CLOSED, CLOCK NOT ACTIVE (DE-ENERGIZED STATE).
- A LAMINATED COPY OF THE CIRCUIT SCHEMATIC AND SCADA I/O DIAGRAM (NO SMALLER THAN 11"x17" EACH) SHALL BE ATTACHED TO THE INSIDE OF THE CONTROLLER WITH STAINLESS STEEL SCREWS.



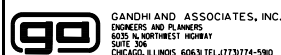
CONTROL CIRCUIT LADDER LOGIC DIAGRAM

MOSCAD I/O ASSIGNMENTS		
TERM	MOSCAD DESTINATION	DESCRIPTION OF INPUT
1	DIGITAL INPUT 1	ALARM KNOWLEDGE
2	DIGITAL INPUT 2	DOOR OPEN
3	DIGITAL INPUT 3	MAIN(S) BREAKER OPEN
4	DIGITAL INPUT 4	CONTACTOR 1 OPEN
5	DIGITAL INPUT 5	CONTACTOR 2 OPEN
6	DIGITAL INPUT 6	CABINET IN NON-AUTO
7	DIGITAL INPUT 7	BACK-UP CLOCK OFF CALL
8	DIGITAL INPUT 8	BACK-UP CLOCK ON CALL
17	24 V+	24+VDC
18	DI COMMON	COMMON
21	K1 C	K1 COMMON
22	K1 NO	LIGHTS ON CALL
24	K2 C	K2 COMMON
25	K2 NO	LIGHTS OFF CALL
32	ANALOG INPUT 1 (+)	CABINET NEUTRAL CURRENT
33	ANALOG INPUT 1 (-)	CABINET NEUTRAL CURRENT
34	ANALOG INPUT 2 (+)	CABINET SERVICE VOLTAGE
35	ANALOG INPUT 2 (-)	CABINET SERVICE VOLTAGE
40	P. GROUND	GROUND

ALL ANALOG INPUTS WILL BE 4-20 MA ONLY. DIGITAL OUTPUT RELAYS WILL BE ELECTRICALLY ENERGIZED AND MOMENTARILY HELD

MIXED I/O MODULE MODEL NUMBER V436

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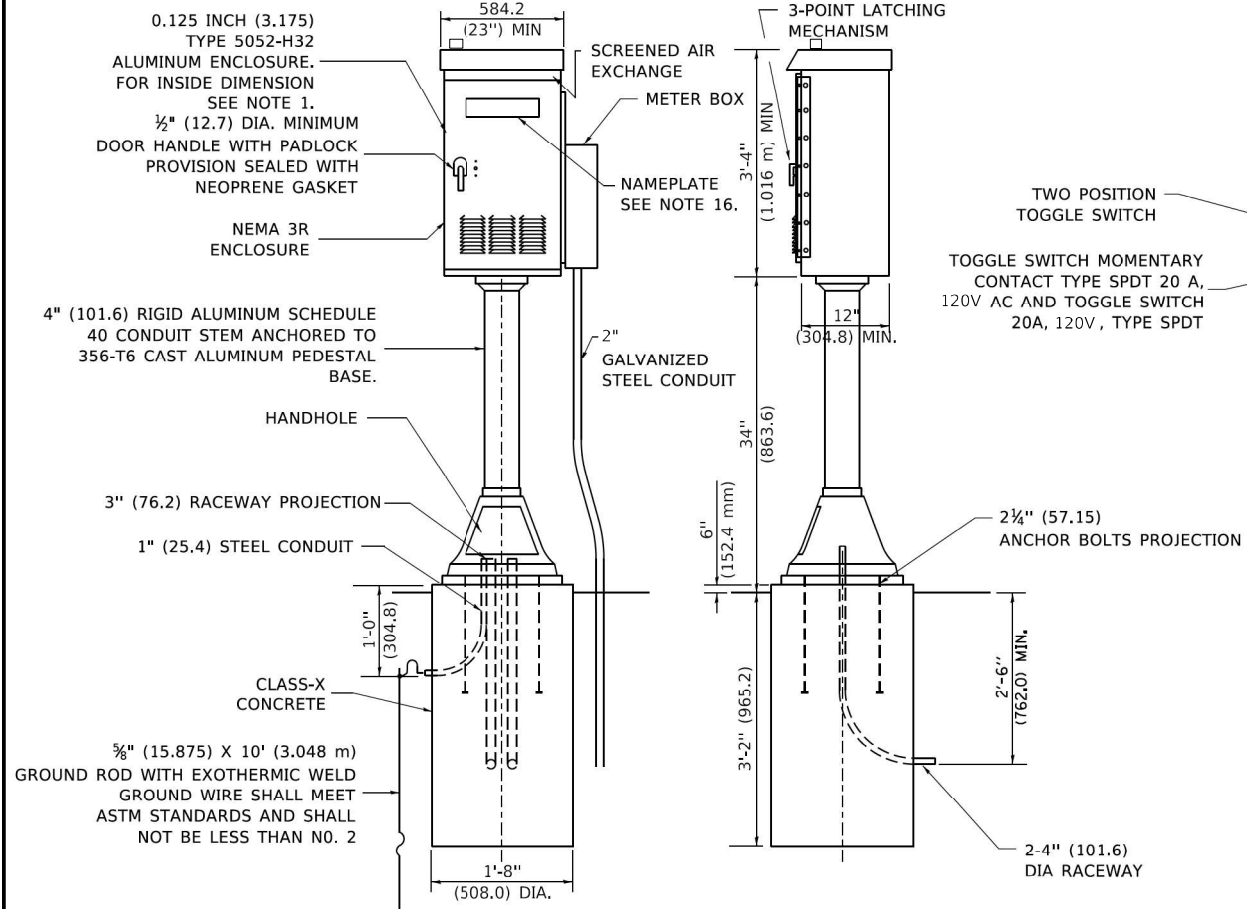
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LIGHTING CONTROLLER, BASE MOUNTED,
480VOLT, 200AMP (DUAL) RADIO SCADA**

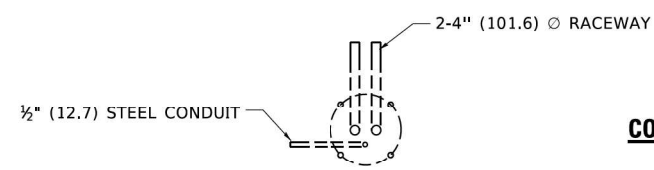
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F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 390
BE-205		CONTRACT NO. 60R49		
ILLINOIS FED. AID PROJECT				



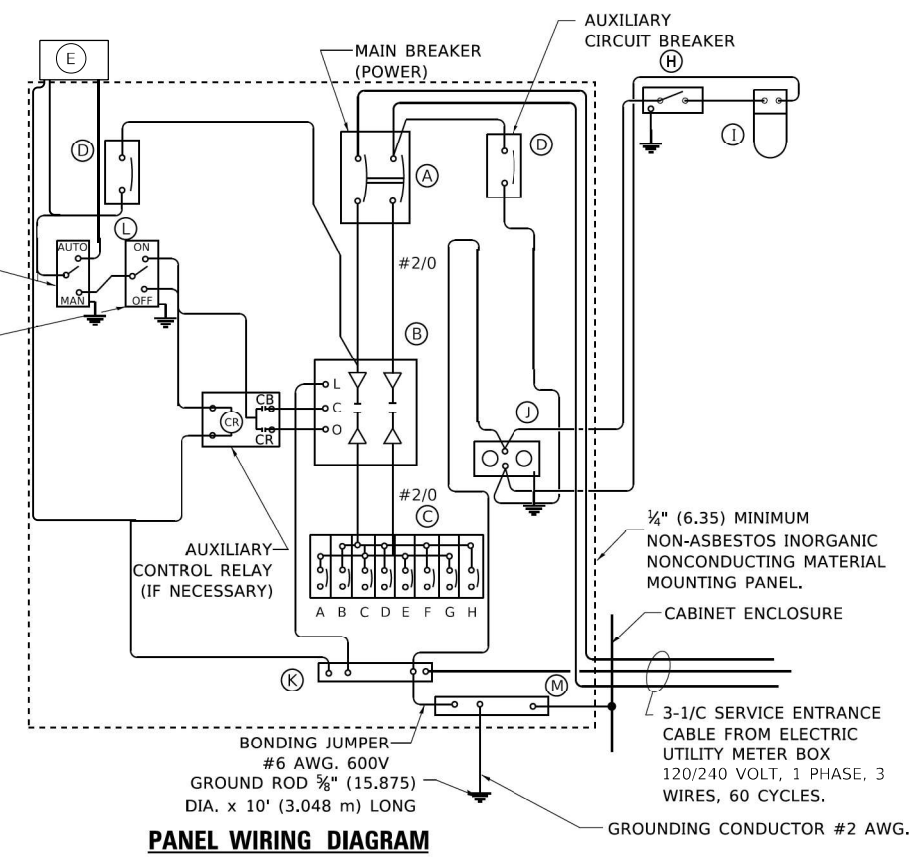
FRONT

SIDE



FOUNDATION PLAN

CONTROL CABINET



PANEL WIRING DIAGRAM

PANEL EQUIPMENT

BILL OF MATERIAL		
ITEM	QUANTITY	DESCRIPTION
A	1	MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 100 AMP. FRAME, 100 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22000 AMP. AT 240 VOLT.
B	1	REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 100 AMP., 600 VOLTS CONTROL CIRCUIT 120 VOLT.
C	8	CIRCUIT BREAKERS, 1 POLE, 277V., 100 AMP., FRAME 50 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-10,000 AMP. AT 120 V.
D	2	CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 120 V., 100 AMP. FRAME, 15 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-5000 AMP. AT 120 V.
E	1	PHOTOCELL WITH INTERNAL SURGE ARRESTER.
H	1	SPST 20A SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN.
I	1	INCANDESCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 60 WATT, 120 V. LAMP.
J	1	20 A., 120 V., DUPLEX RECEPTACLE, GFCI.
K	1	COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS
L	1	TOGGLE SWITCHES MOUNTED IN 4" (101.6) X 4" (101.6 mm) BOX.
M	1	COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS

NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- UNLESS OTHERWISE INDICATED, THE CABINET SHALL BE MOUNTED ATOP A 4-INCH (101.6 mm) RIGID ALUMINUM SCHEDULE 40 CONDUIT STEM ANCHORED TO A CAST ALUMINUM PEDESTAL BASE.
- IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 2" (50.8 mm) TOP SOIL, LEVEL THE AREA AND ON TOP, PLACE LENGTH WISE PARALLEL TO CONTROL CABINET, A CONCRETE PAD 36" (914.4 mm) x 60" (18.288 m) x 4" (101 mm) MIN. SIZE. THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.
- DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
- DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
- DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 1#4" (6.35 mm) DIA. STAINLESS STEEL HINGE PIN.
- ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
- CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
- METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.
- CABINETS SHALL BE NATURAL ALUMINUM FINISH.
- THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED:
R = RED BL = BLUE W = WHITE
B = BLACK Y = YELLOW G = GREEN
- PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
- 12" (304.8) X 16" (406.4 mm) STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "VILLAGE OF CHICAGO RIDGE LIGHTING CONTROLS".

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GO GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
5015 N. NORTHWEST HIGHWAY
SUITE 206
CHICAGO, ILLINOIS 60639 TEL: 773-774-590

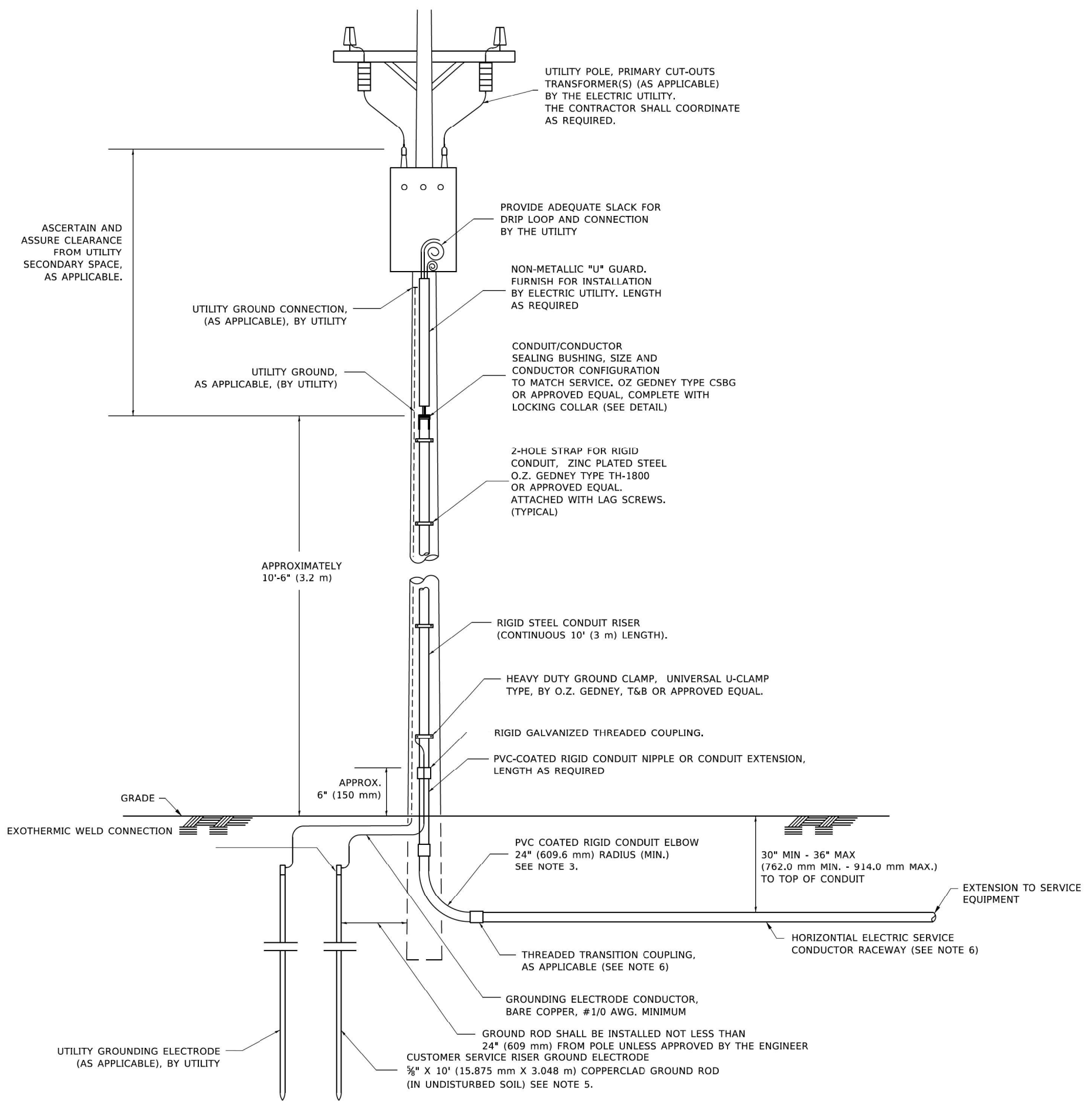
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LIGHTING CONTROLLER
PEDESTAL MOUNT**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 391
			CONTRACT NO. 60R49	
ILLINOIS FED. AID PROJECT				

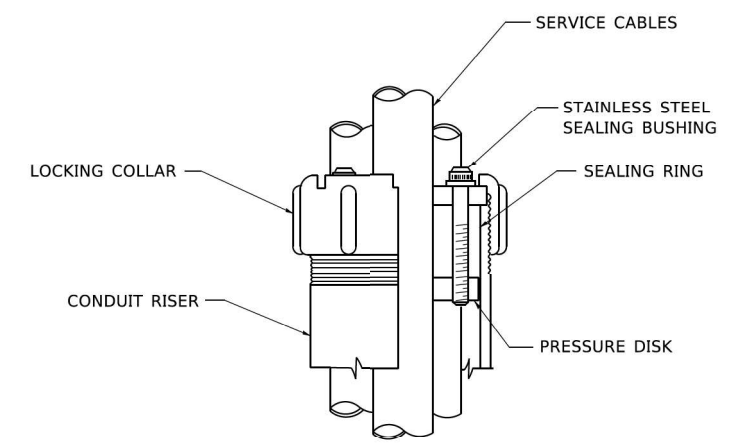


APPLICATION

THIS DETAIL APPLIES FOR LOW VOLTAGE ELECTRIC SERVICE (660 V OR LESS) FROM AN OVERHEAD UTILITY SUPPLY TO SEPERATLY-MOUNTED SERVICE EQUIPMENT.

NOTES

- SERVICE VOLTAGE SHALL BE AS INDICATED ELSEWHERE IN THE DRAWINGS.
- UNLESS OTHERWISE INDICATED, ITEMS AND WORK SHALL BE INCLUDED AND PAID AS PART OF THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.
- CONDUIT AND CONNECTOR DIAMETER SHALL MATCH THE DIAMETER OF THE SERVICE CONDUCTOR RACEWAY AS INDICATED ON THE PLANS.
- PVC COATED RACEWAYS AND ACCESSORIES SHALL BE CAREFULLY INSTALLED WITH MFR RECOMMENDED TOOLS AND PROCEDURES TO AVOID DAMAGE. ANY DAMAGE SHALL BE REPAIRED WITH COMPATIBLE PVC TOUCH-UP MATERIAL TO THE SATISFACTION OF THE ENGINEER OR THE DAMAGED MATERIAL SHALL BE REPLACED AT NO ADDITIONAL COST.
- THE CONTRACTOR SHALL OBTAIN INSPECTION AND APPROVAL BY THE ENGINEER OF SERVICE RISER GROUND ELECTRODE, RISER ELBOW, NIPPLE AND CONNECTION TO SERVICE CONDUCTOR RACEWAY EXTENSION BEFORE BACKFILL AND SHALL ALSO OBTAIN INSPECTION OF SERVICE RISER AND SEALING BUSHING BEFORE UTILITY "U" GUARD INSTALLATION AND SERVICE CONNECTION.
- THE HORIZONTAL ELECTRIC SERVICE CONDUCTOR RACEWAY SHALL BE AS INDICATED AND SHALL BE MEASURED SEPARATELY FOR PAYMENT. WHEN THE RACEWAY IS PVC-COATED RIGID GALVANIZED STEEL, THE COUPLING SHALL BE THE SAME. WHEN THE RACEWAY IS PVC CONDUIT (IN CONCRETE), THE COUPLING SHALL BE A METALIC TO NON METALIC ADAPTER. WHEN THE RACEWAY IS ENCASED IN CONCRETE, THE CONCRETE SHALL EXTEND TO COVER THE COUPLING.
- PLANS AND DETAILS INDICATE THE GENERAL NATURE AND REQUIREMENTS. THEY DO NOT SHOW EVERY ACCESSORY AND ATTACHMENT, AND THEY DO NOT RELIEVE THE CONTRACTOR OF THE REQUIREMENTS OF THE SPECIFICATIONS AND SPECIAL PROVISIONS TO ASCERTAIN UTILITY REQUIREMENTS AND TO COORDINATE ACCORDINGLY, FURNISHING ALL ITEMS AND WORK NOT PROVIDED BY THE UTILITY, BUT NECESSARY FOR A COMPLETE SERVICE INSTALLATION IS REQUIRED AND SHALL BE INCLUDED IN THE ELECTRIC UTILITY SERVICE INSTALLATION PAY ITEM.



SEALING BUSHING DETAIL

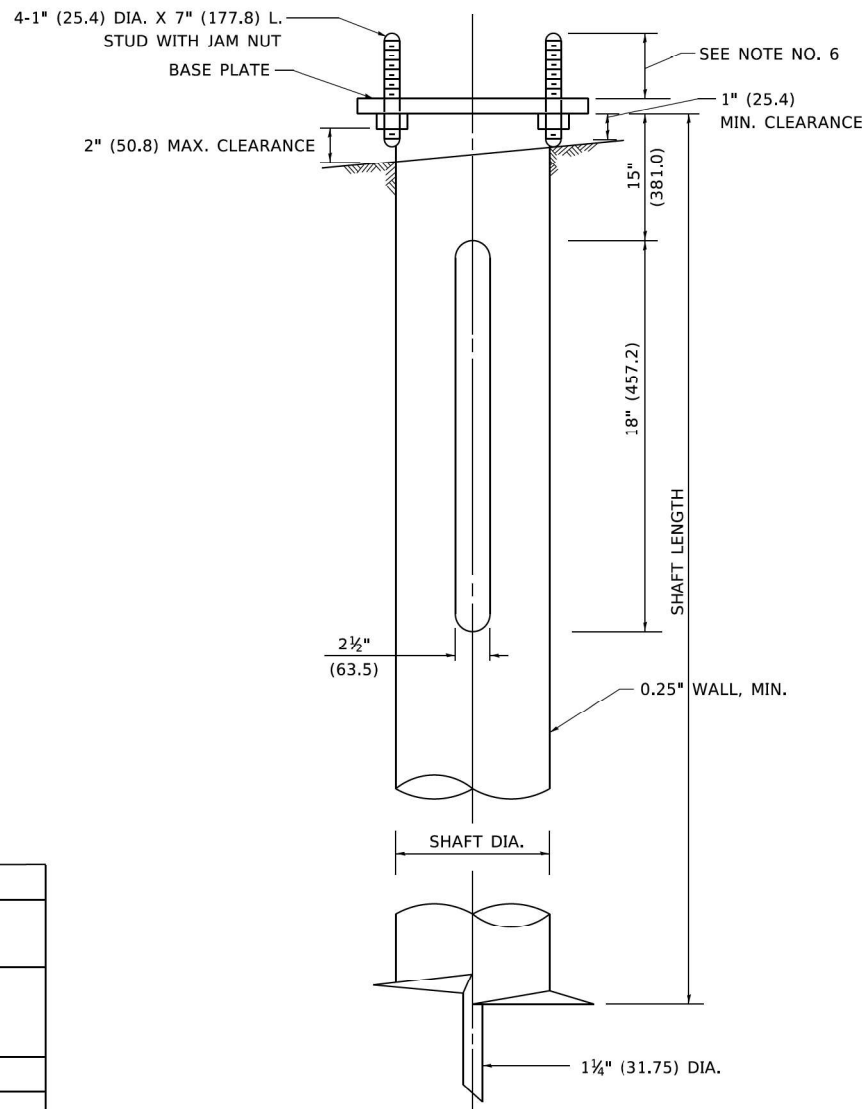
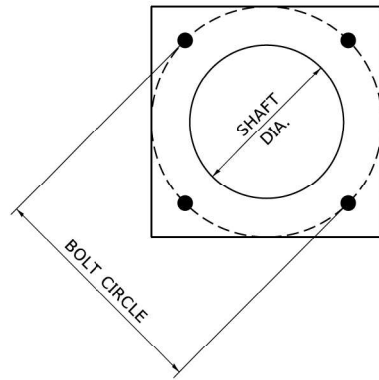
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PLOT DATE = 4/19/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ELECTRIC SERVICE INSTALLATION AERIAL, REMOTE DISCONNECT			
SCALE: NONE	SHEET 1 OF 1 SHEETS	STA.	TO STA.

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 392
BE-220		CONTRACT NO. 60R49		
ILLINOIS FED. AID PROJECT				



NOTES

1. ALL DIMENSION IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
2. ALL MATERIAL SHALL BE GALVINIZED ACCORDING TO AASHTO M111, UNLESS OTHERWISE SPECIFIED.
3. ALL WELDS SHALL BE CONTINUOUS AND NOT LESS THAN 1#4" (6.35 mm) FILLET WELDS. THE WELDED FOUNDATION SHALL BE CAPABLE OF WITHSTANDING 10,000 FT/LBS (13558.18 n.m) OF INSTALLATION TORQUE APPLIED ABOUT THE AXIS OF THE FOUNDATION.
4. THE HELIX FOUNDATION SHAFT SHALL BE INSTALLED VERTICAL AND THE BASE PLATE SHALL BE IN LEVEL. THE BREAKAWAY COUPLINGS AND HARDWARE SHALL NOT BE USED TO ALIGN THE POLE INSTALLATION.
5. THE CABLE TRENCH SHALL BE BACKFILLED AND FIRMLY COMPACTED BEFORE THE INSTALLATION OF THE LIGHT POLE.
6. THE CONTRACTOR SHALL COORDINATE EXTENSION OF ANCHOR BOLTS ABOVE TOP OF THE BASE PLATE WITH THE BREAKAWAY DEVICE MANUFACTURER'S REQUIREMENTS.
7. ANY VOIDS WITHIN THE METAL FOUNDATION SHALL BE FILLED WITH FINE AGGREGATE.
8. METAL FOUNDATIONS SHALL BE INSTALLED IN UNDISTURBED SOIL. PREDRILLING A PILOT HOLE AND/OR BACKFILLING AROUND THE FOUNDATION IS NOT ALLOWED.
9. THE METAL FOUNDATION SHALL NOT BE INSTALLED TO A TORQUE WHICH EXCEEDS THE MANUFACTURER'S MAXIMUM TORQUE RATING NOR SHALL IT BE INSTALLED TO AN INSTALLATION TORQUE VALUE OF LESS THAN 3,500 FT LB (4,750 KNM). METAL FOUNDATIONS THAT ARE NOT INSTALLED TO FULL INSTALLATION DEPTH OR DO NOT ACHIEVE THE MINIMUM INSTALLATION TORQUE SHALL BE REMOVED AND REPLACED WITH A CONCRETE FOUNDATION AT NO ADDITIONAL COST.
10. THE BASEPLATE SHALL BE PERPENDICULAR TO THE SHAFT AXIS ($\pm 1^\circ$) AND THE HOLE CENTERLINE SHALL BE CONCENTRIC (± 0.188) TO THE SHAFT AXIS.
11. THE PILOT POINT AND SHAFT AXIS SHALL BE CONCENTRIC (± 0.125) AND IN LINE ($\pm 2^\circ$).
12. THE BASEPLATE SHALL BE STAMPED WITH THE MANUFACTURERS NAME AND DATE OF MANUFACTURE.

HELIX FOUNDATION SIZE

POLE MOUNTING HEIGHT	BOLT CIRCLE	SHAFT DIAMETER	SHAFT LENGTH	BASEPLATE
30 FT.	11 1/2"	8 5/8"	6 FT.	12"x12"x1"
31 FT.-35 FT.	11 1/2"	8 5/8"	6 FT.	12"x12"x1"
36 FT.-40FT.	15"	8 5/8"	6 FT.	15"x15"x1 1/4"
41 FT.-45 FT.	15"	8 5/8"	6 FT.	15"x15"x1 1/4"
46 FT.-50 FT.	15"	10"	8 FT.	15"x15"x1 1/4"

METAL HELIX FOUNDATION MATERIALS

ITEM	MATERIAL REQUIREMENT
BASEPLATE	AASHTO M 270M. GRADE 36 (M270M, GRADE 250)
SHAFT	ASTM A 252, GRADE 2 (PHOSPHOROUS 0.04% MAXIMUM, SULFUR 0.05% MAXIMUM)
HELIX SCREW	AASHTO M 183 (ASTM A 635)
PILOT POINT	AASHTO M 270 (ASTM A 575)
ANCHOR RODS/STUDS	AASHTO M 314 (ASTM F 1554)
HEXAGON NUTS	AASHTO M 291M (ASTM A 563) GRADE DH, OR AASHTO M 292 (ASTM A 194) GRADE 2H
WASHERS	AASHTO M 293 (ASTM F 436)

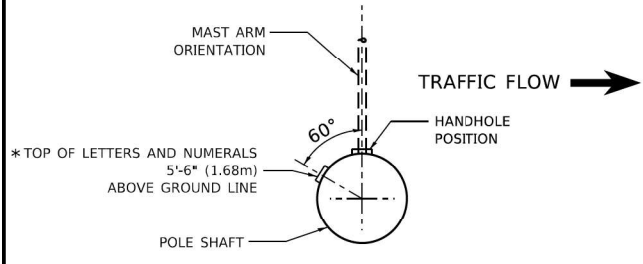
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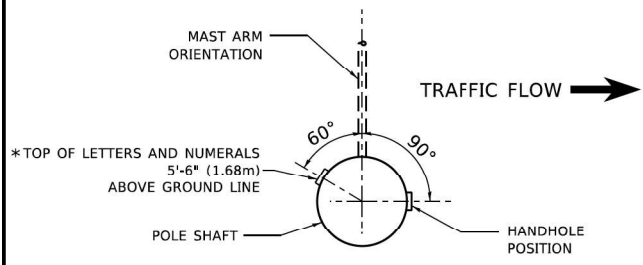
**STATE OF ILLINOIS
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LIGHT POLE FOUNDATION, METAL
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

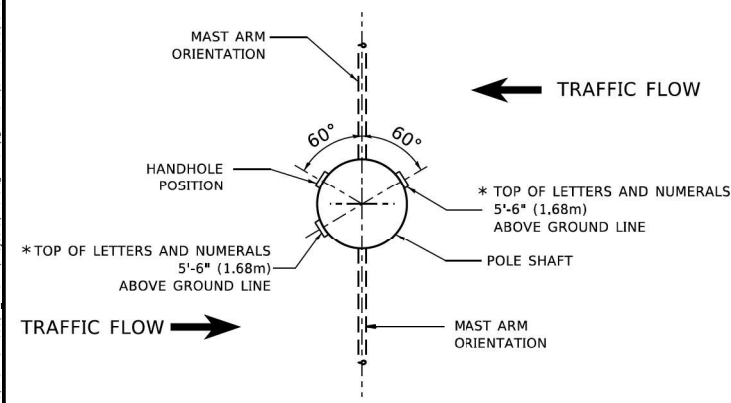
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BE-305		CONTRACT NO. 60R49		
ILLINOIS FED. AID PROJECT				



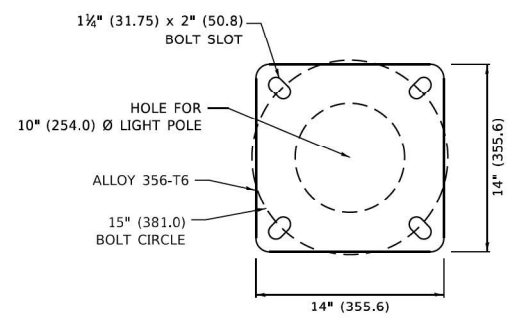
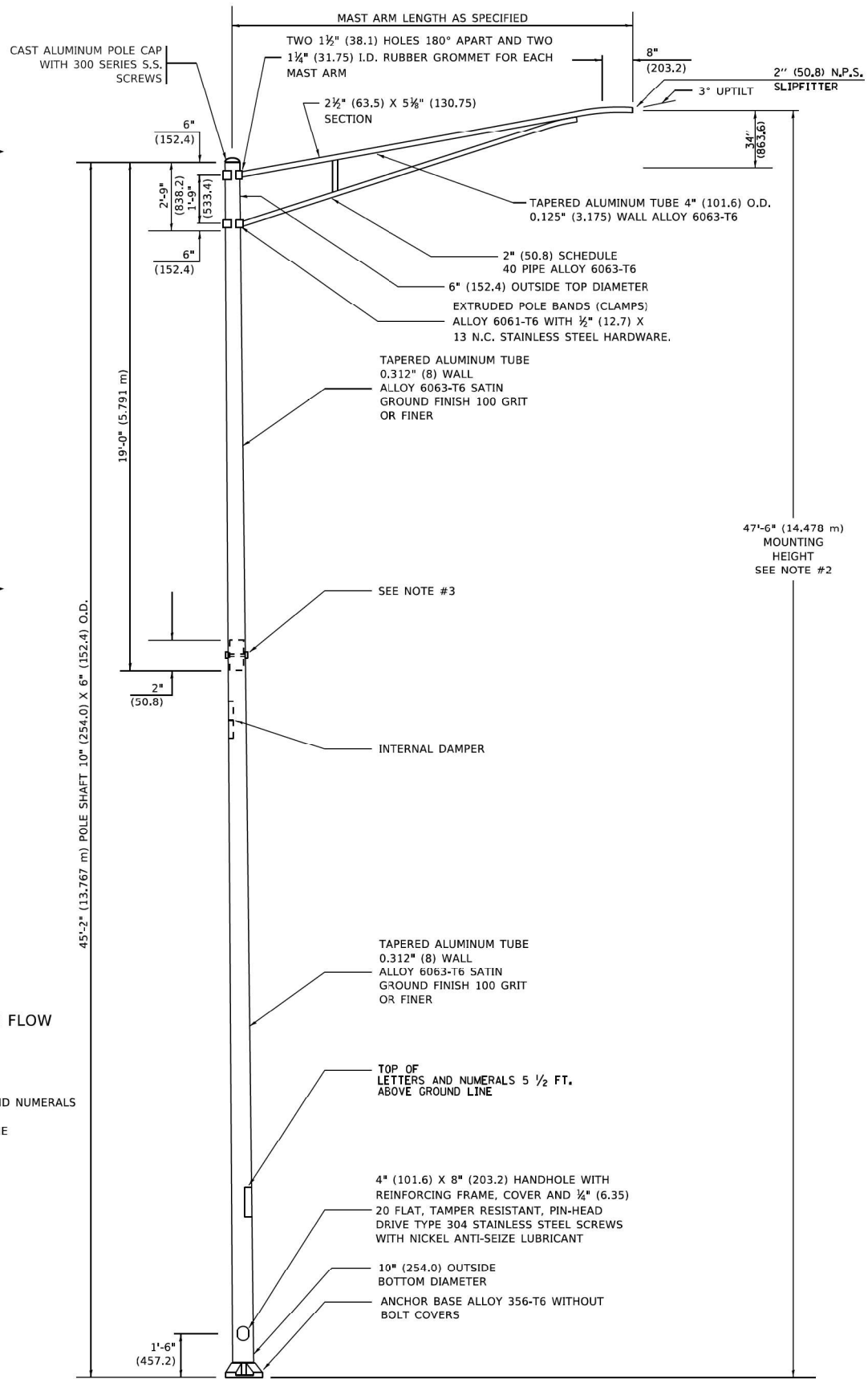
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL



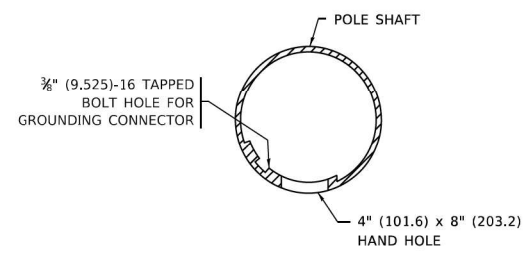
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES



LIGHT POLE BASE PLATE DETAIL
15 INCH (381.0) BOLT CIRCLE



HANDHOLE DETAIL
(N.T.S.)

NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
- TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
- THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
- THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR. BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
- LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
- LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
- LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.

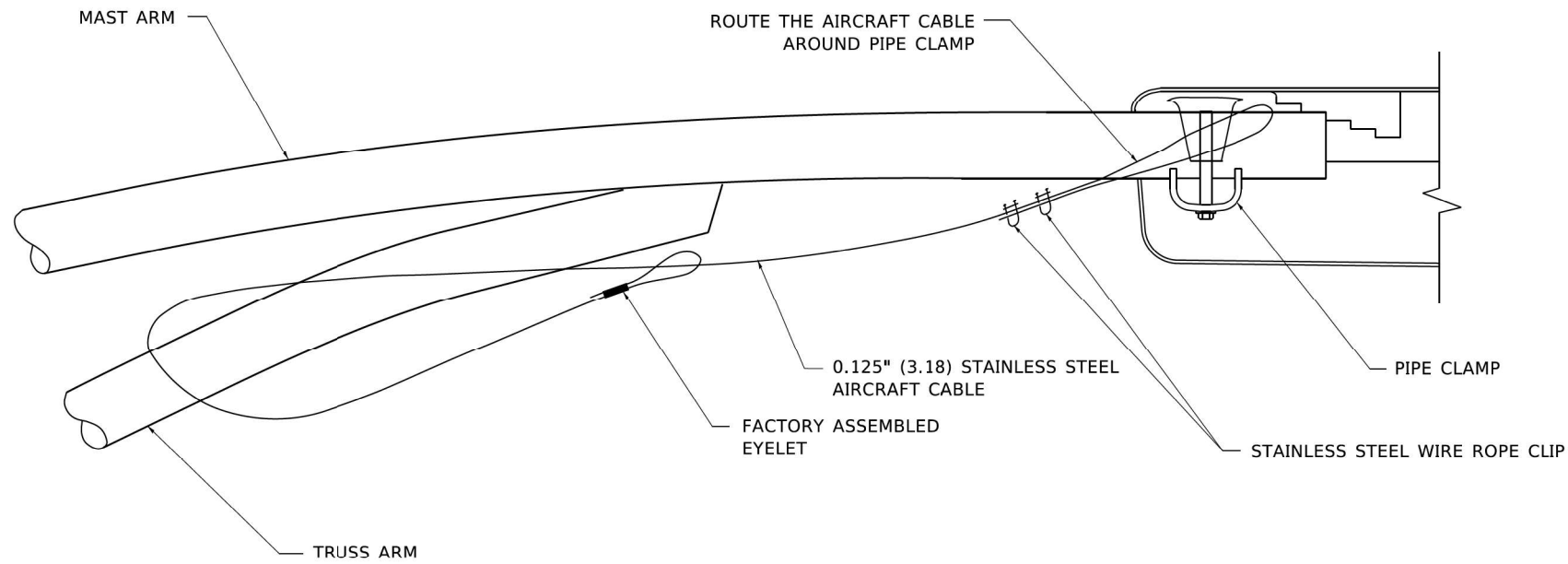
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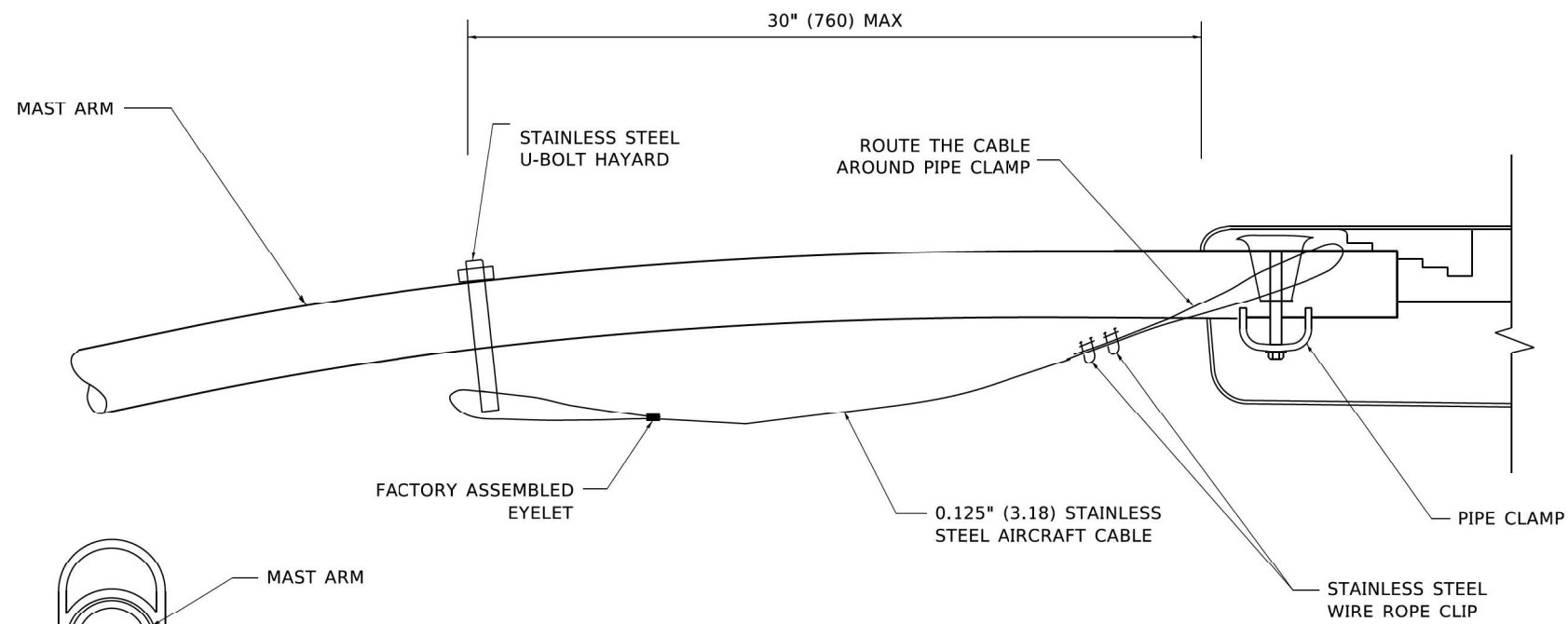
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ALUMINUM LIGHT POLE			
47'-6" (14.478 m) MOUNTING HEIGHT			
SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	

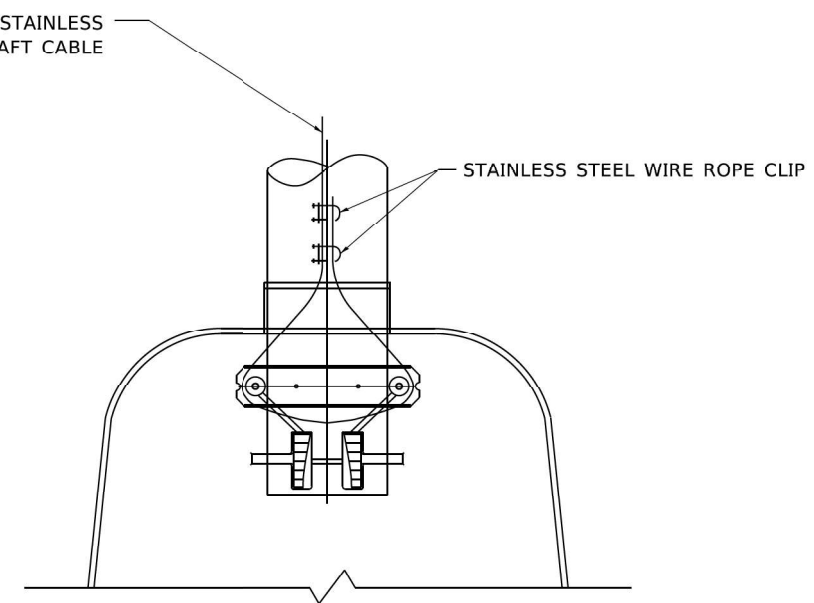
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BE-400		CONTRACT NO. 60R49		
ILLINOIS FED. AID PROJECT				



SIDE VIEW (TRUSS ARM)
N.T.S.



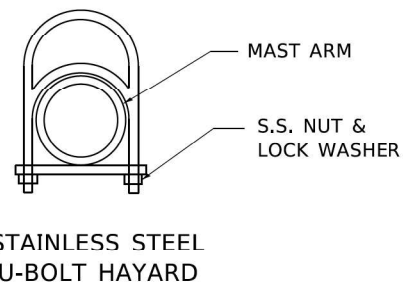
SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)
N.T.S.



BOTTOM VIEW
N.T.S.

NOTES:

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



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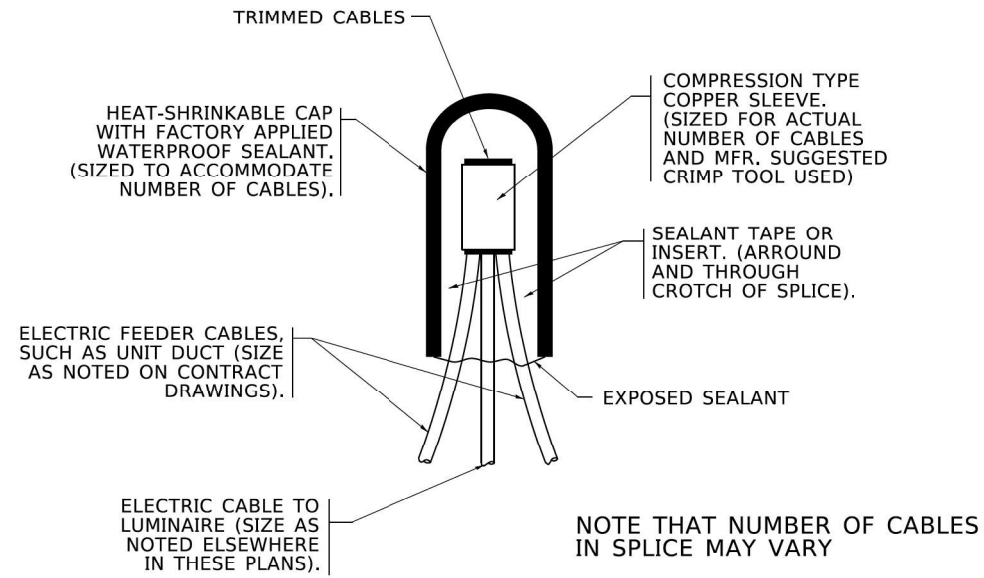
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STATE OF ILLINOIS
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LUMINAIRE SAFETY CABLE ASSEMBLY

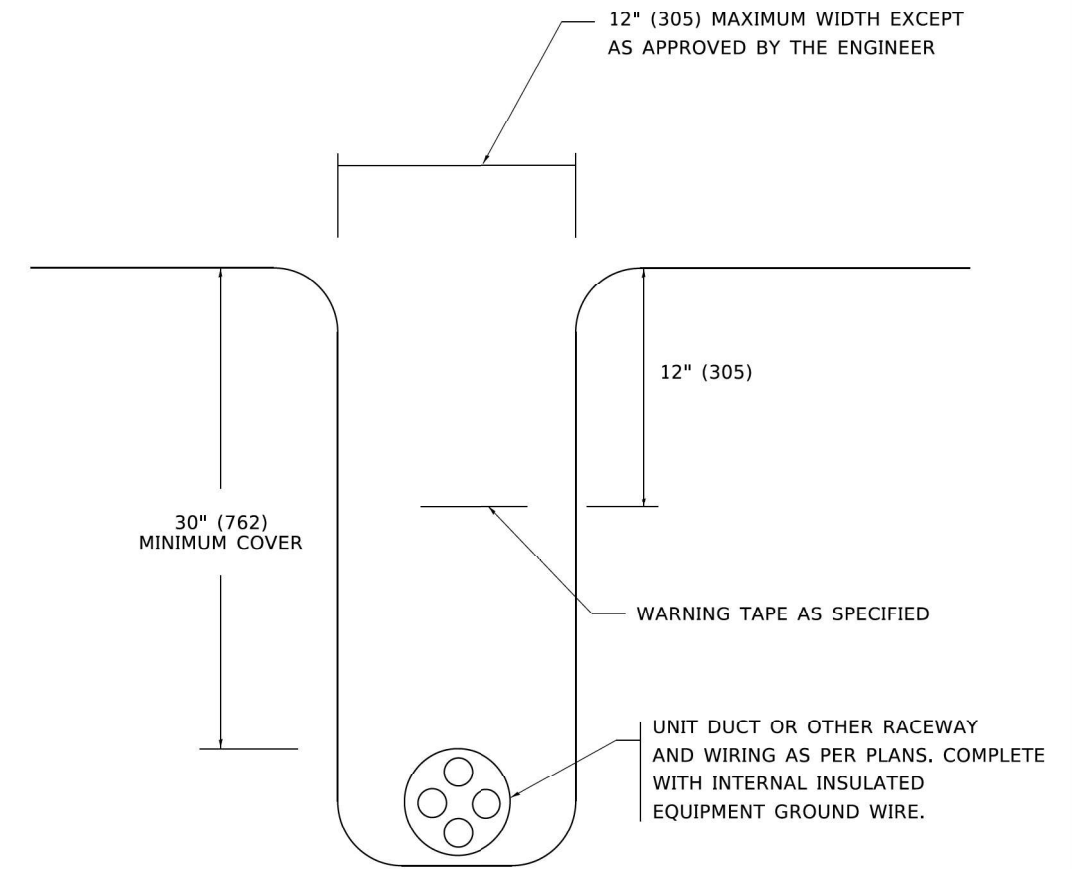
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F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&S	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 397
BE-701		CONTRACT NO. 60R49		
ILLINOIS FED. AID PROJECT				

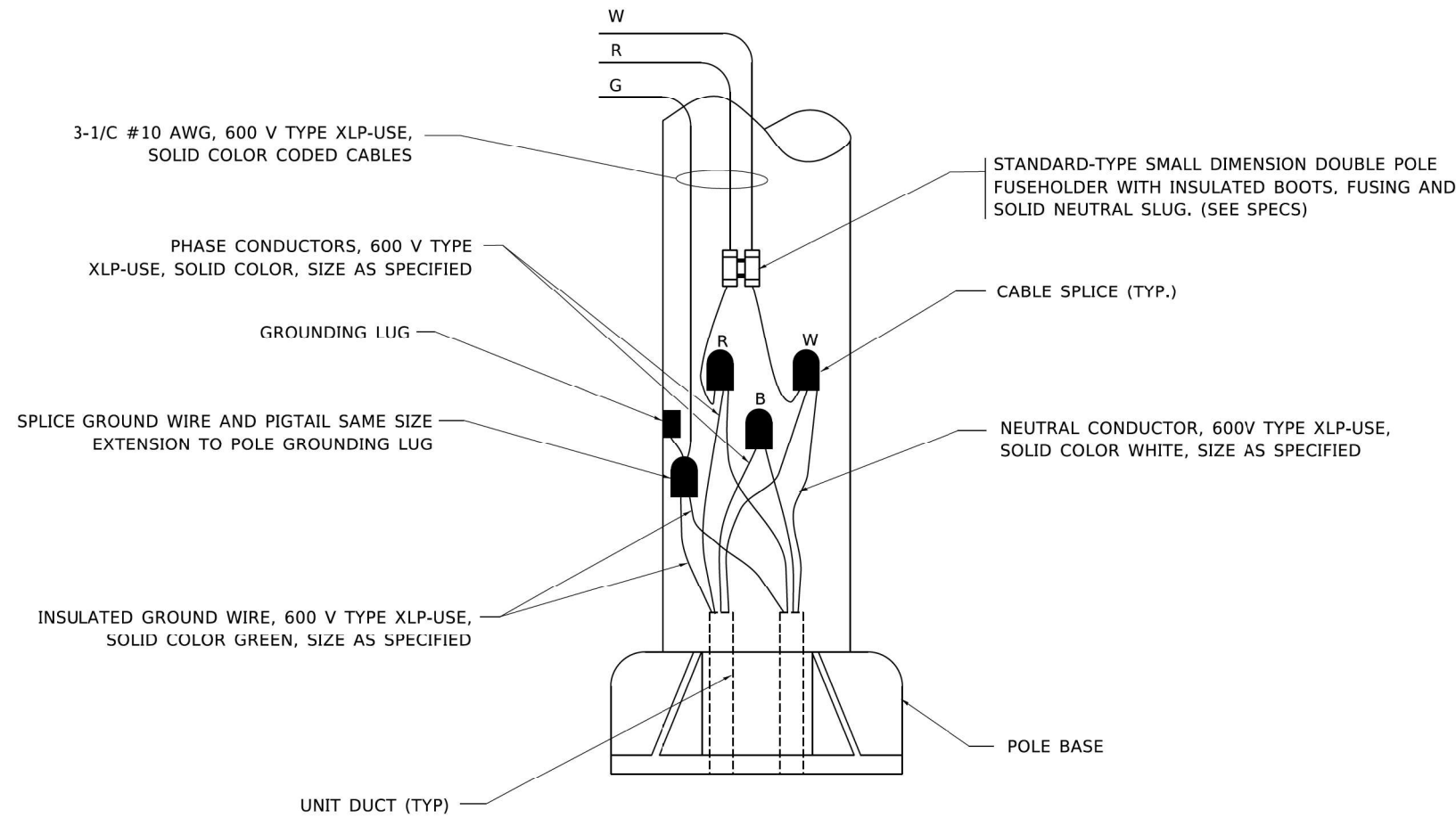


TYPICAL SPLICE DETAIL
N.T.S.

NOTE THAT NUMBER OF CABLES IN SPLICE MAY VARY



TYPICAL WIRING IN TRENCH DETAIL
N.T.S.



POLE WIRING DETAIL
N.T.S.

MODEL: Default
FILE: C:\Users\paul\OneDrive\Documents\DOT\CA\09-2020\Sheet11898484.dwg
PLOT DATE: 3/2/2020

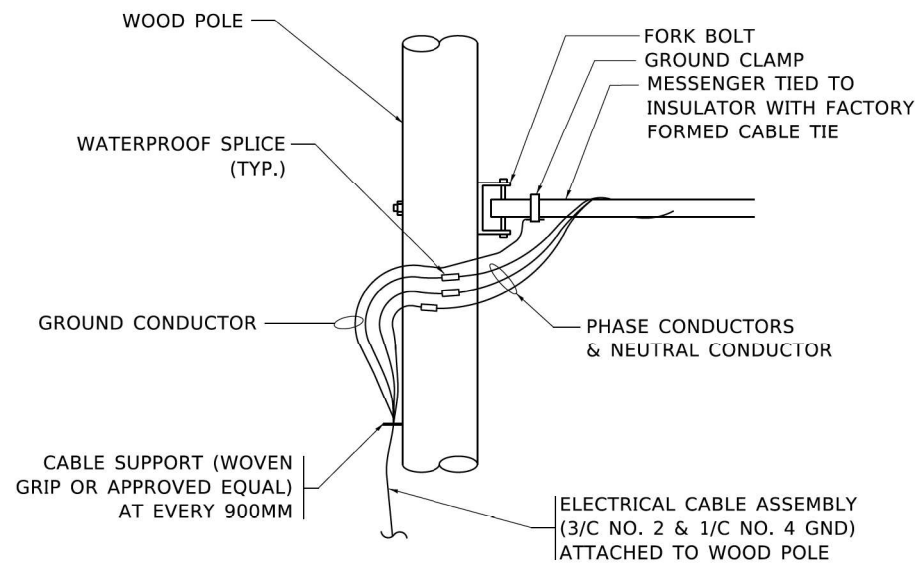
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	DRAWN -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

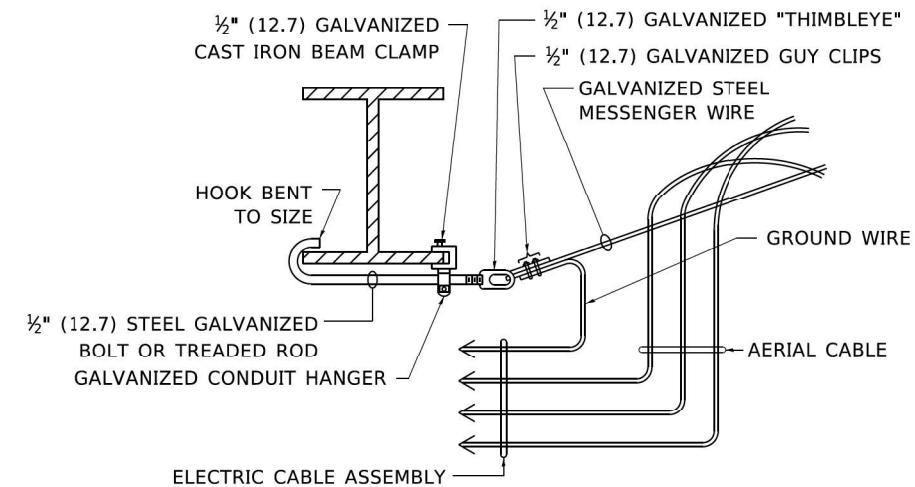
MISC. ELECTRICAL DETAILS
SHEET A

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

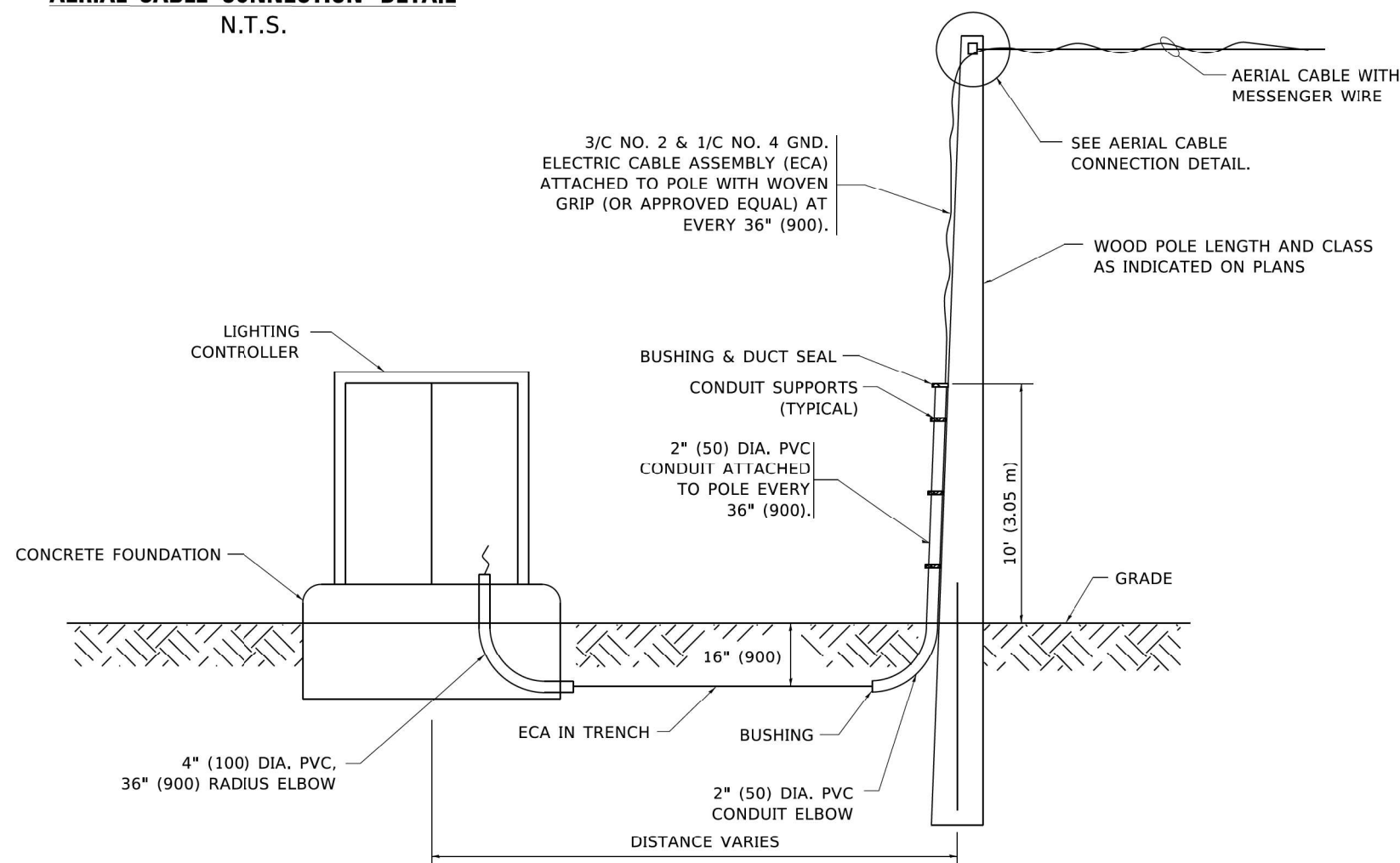
F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&RS	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 398
BE-702		CONTRACT NO. 60R49		
ILLINOIS FED. AID PROJECT				



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.

MODEL: Default
 FILE: C:\Users\paulm\OneDrive\Documents\DOT\CA609-Submittal\188484\Sheet188484.dwg
 PLOT DATE: 4/19/2019 3:25:09 PM User: paulm

USER NAME = paulm	DESIGNED -	REVISED - 08-08-03
	DRAWN -	REVISED -
PLOT SCALE = 50,0000' / 1"	CHECKED -	REVISED -
PLOT DATE = 4/19/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TEMPORARY AERIAL CABLE INSTALLATION

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE. 29 & 348	SECTION 3128-Z-I-R&S	COUNTY COOK	TOTAL SHEETS 659	SHEET NO. 400
BE-801		CONTRACT NO. 60R49		
ILLINOIS FED. AID PROJECT				