

06-12-2015 LETTING ITEM 104

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PROPOSED
LIGHTING CONTRACT

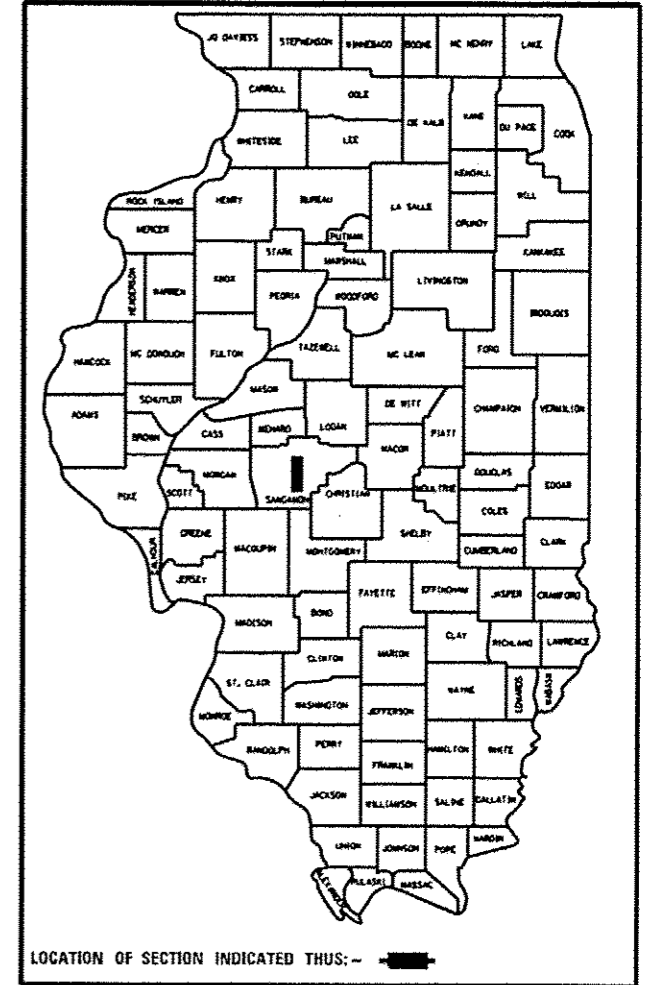
FAP 658 (IL 29)
SECTION (102) L

SANGAMON COUNTY

FAP SITE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
658	(102) L	SANGAMON	48	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 72H40		

FOR INDEX OF SHEETS, SEE SHEET NO. 2

D-96-012-15



C-96-012-15

R 5 W

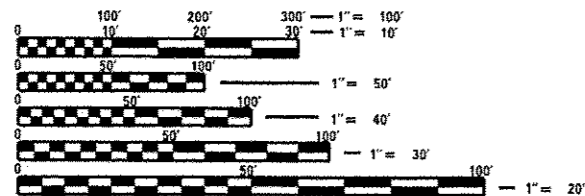


BEGIN PROJECT
HACKMORE DR.

END PROJECT
NORTH GRAND AVE.

GROSS LENGTH = 12,038.40 FT. = 2.280 MILES

ADT = 9,200
 SU = 250
 MU = 150



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

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

PLAN AND CONTRACT TECHNICIAN
 TIMOTHY SHARP (217)782-7743

CONTRACT NO. 72H40

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS

SUBMITTED April 17 2015
Page 2 of 2
 DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 8 2015
Dr. D. Baranzelli, P.E.
 ENGINEER OF DESIGN AND ENVIRONMENT

May 8 2015
Omer Osman, P.E.
 DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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 OF THE STATE OF ILLINOIS**

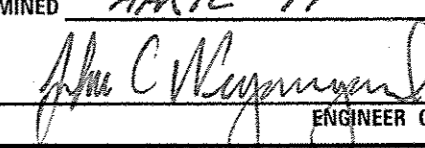
INDEX OF SHEETS

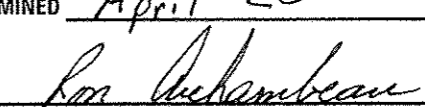
- 1. COVER
- 2. INDEX OF SHEETS AND HIGHWAY STANDARDS
- 3. SUMMARY OF QUANTITIES AND GENERAL NOTES
- 4-24. LIGHTING REMOVAL PLANS
- 25-45. PROPOSED LIGHTING PLANS
- 46. WIRING DIAGRAMS
- 47. LUMINAIRE PERFORMANCE TABLES
- 48. UNDERGROUND ELECTRIC SERVICE INSTALLATION

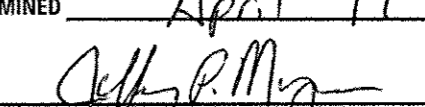
HIGHWAY STANDARDS

- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 701101-04 OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
- 701106-02 OFF RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
- 701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
- 701601-09 URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
- 701701-09 URBAN LANE CLOSURE, MULTILANE INTERSECTION
- 701901-04 TRAFFIC CONTROL DEVICES
- 821101-01 LUMINAIRE WIRING DIAGRAM
- 825021-03 LIGHTING CONTROLLER BASE MOUNTED, 240V
- 830006-03 LIGHT POLE ALUMINUM DAVIT ARM
- 836001-02 LIGHT POLE FOUNDATION
- 838001 BREAKAWAY DEVICES

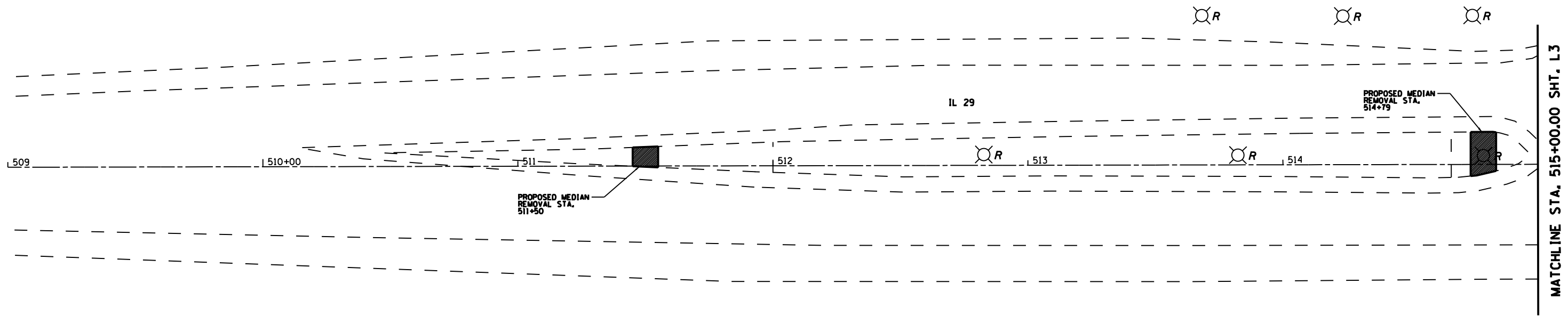
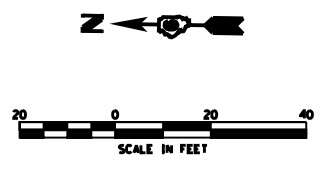
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
DISTRICT 6**

EXAMINED APRIL 17th 20 15

 ENGINEER OF OPERATIONS




EXAMINED April 20 20 15

 ENGINEER OF PROJECT IMPLEMENTATION

EXAMINED April 17 20 15

 ENGINEER OF PROGRAM DEVELOPMENT

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ILLINOIS FED. AID PROJECT										



LEGEND

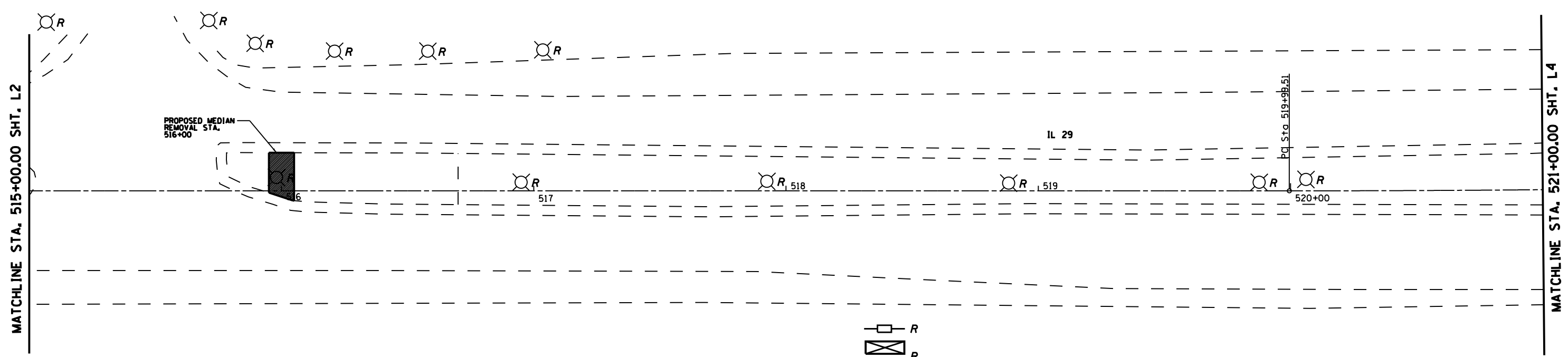
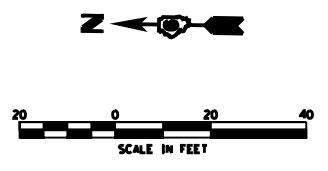
-  **R** EXISTING LIGHTING UNIT TO BE REMOVED (NO SALVAGE)
-  **R** EXISTING LIGHTING CONTROLLER TO BE REMOVED
-  **R** EXISTING ELECTRIC SERVICE INSTALLATION TO BE REMOVED




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PLOT DATE = 5/8/2015	DATE -	REVISIED -	REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

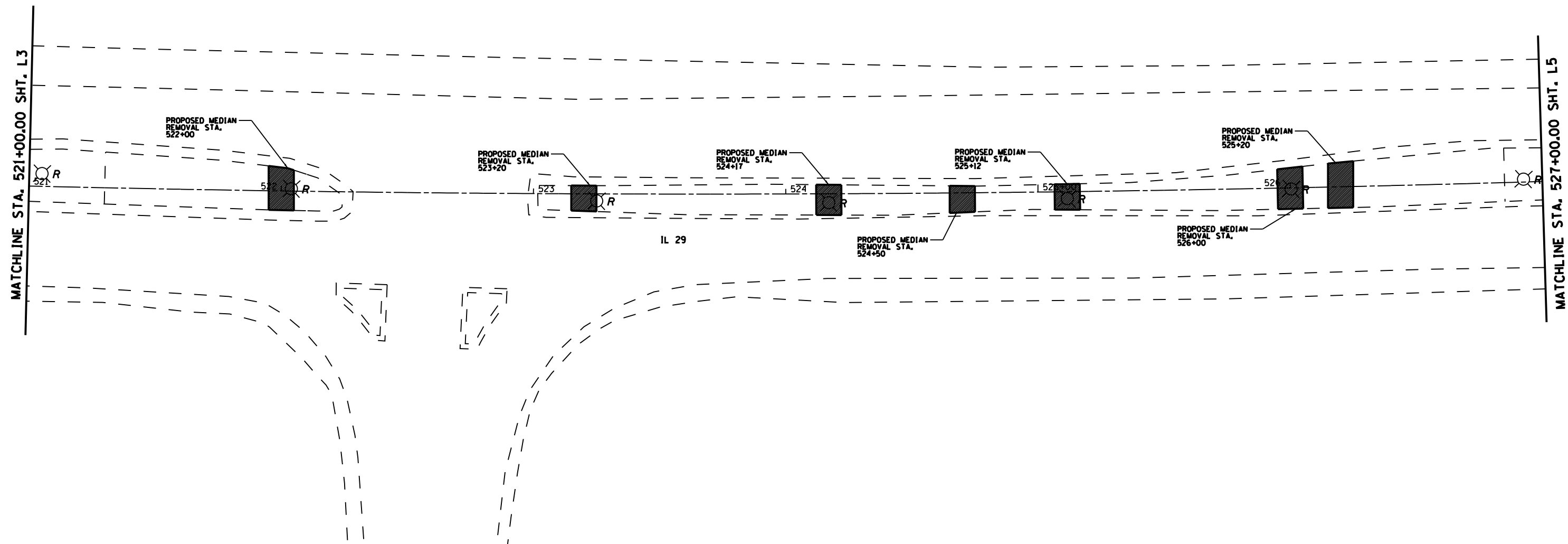
**IL 29, GRAND AVE. TO D. OF HACKMORE DR.
LIGHTING REMOVAL PLAN**

F.A.P. RTE. 658	SECTION (102) L	COUNTY SANGAMON	TOTAL SHEETS 48	SHEET NO. 4
CONTRACT NO. 72H40				
ILLINOIS FED. AID PROJECT				



- LEGEND**
-  **R** EXISTING LIGHTING UNIT TO BE REMOVED (NO SALVAGE)
 -  **R** EXISTING LIGHTING CONTROLLER TO BE REMOVED
 -  **R** EXISTING ELECTRIC SERVICE INSTALLATION TO BE REMOVED

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PLOT DATE = 5/8/2015	DATE -	REVISED -	SCALE:		STA.	TO STA.	ILLINOIS FED. AID PROJECT				



LEGEND

 **EXISTING LIGHTING UNIT TO BE REMOVED (NO SALVAGE)**

 **EXISTING LIGHTING CONTROLLER TO BE REMOVED**

 **EXISTING ELECTRIC SERVICE INSTALLATION TO BE REMOVED**

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USER NAME = sharptd

DESIGNED -
DRAWN -

REVISED -
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PLOT SCALE = 40.1563' / in.

CHECKED -

REVISED -

PLOT DATE = 5/8/2015

DATE -

REVISED -

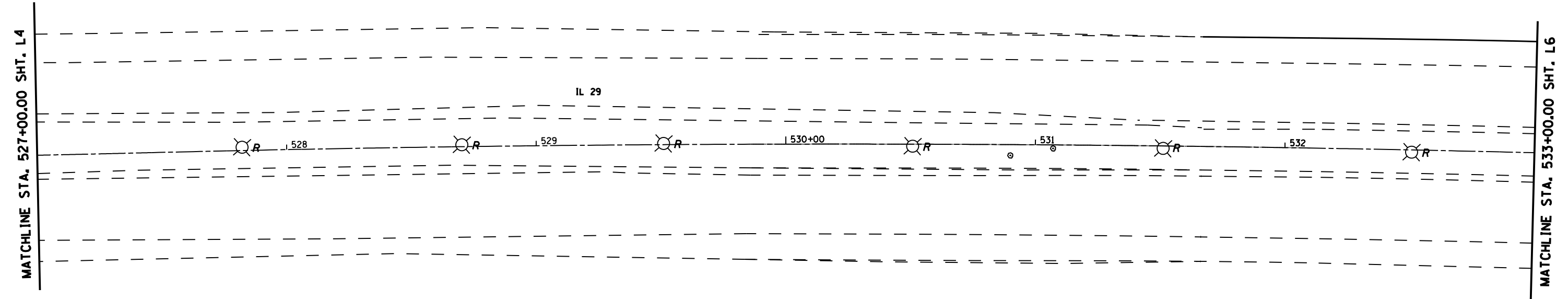
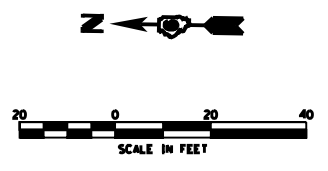
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION




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LIGHTING REMOVAL PLAN

F.A.P. RTE. 658 SECTION (102) L COUNTY SANGAMON TOTAL SHEETS 48 SHEET NO. 6

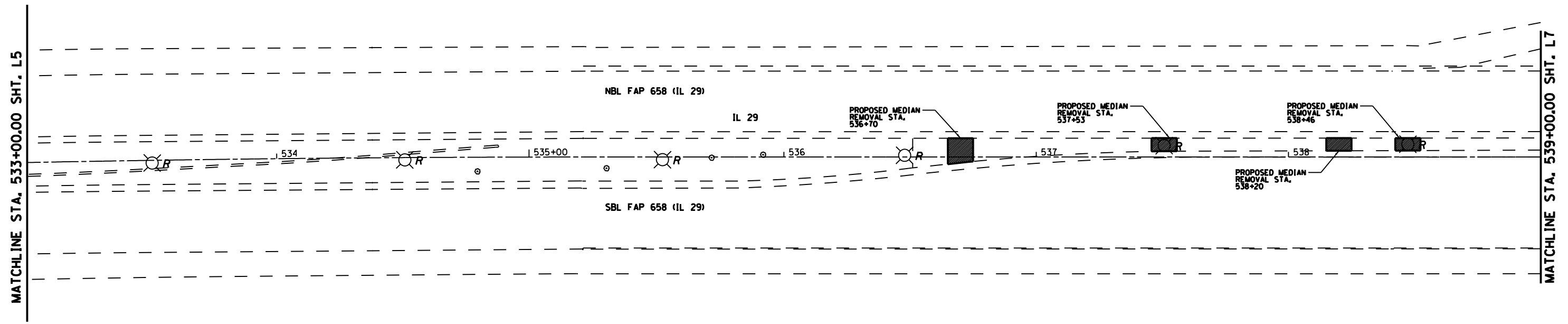
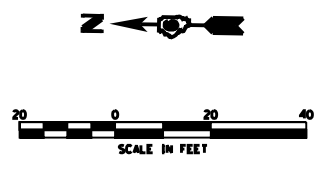
CONTRACT NO. 72H40

SCALE: STA. TO STA. ILLINOIS FED. AID PROJECT



- LEGEND**
-  **R** EXISTING LIGHTING UNIT TO BE REMOVED (NO SALVAGE)
 -  **R** EXISTING LIGHTING CONTROLLER TO BE REMOVED
 -  **R** EXISTING ELECTRIC SERVICE INSTALLATION TO BE REMOVED

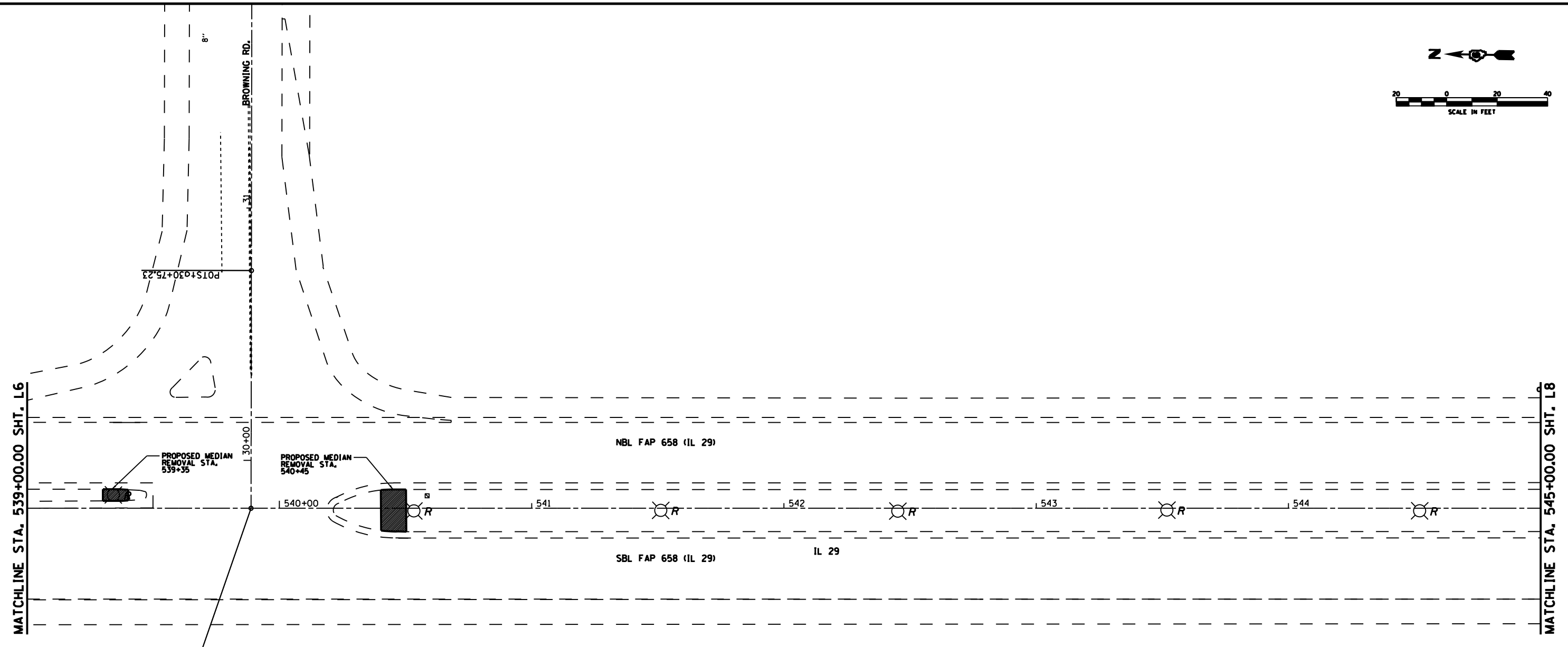
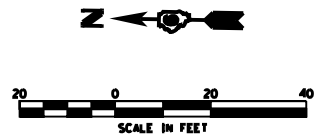
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						SCALE:	STA.	TO STA.		



LEGEND

- EXISTING LIGHTING UNIT TO BE REMOVED (NO SALVAGE)
- EXISTING LIGHTING CONTROLLER TO BE REMOVED
- EXISTING ELECTRIC SERVICE INSTALLATION TO BE REMOVED

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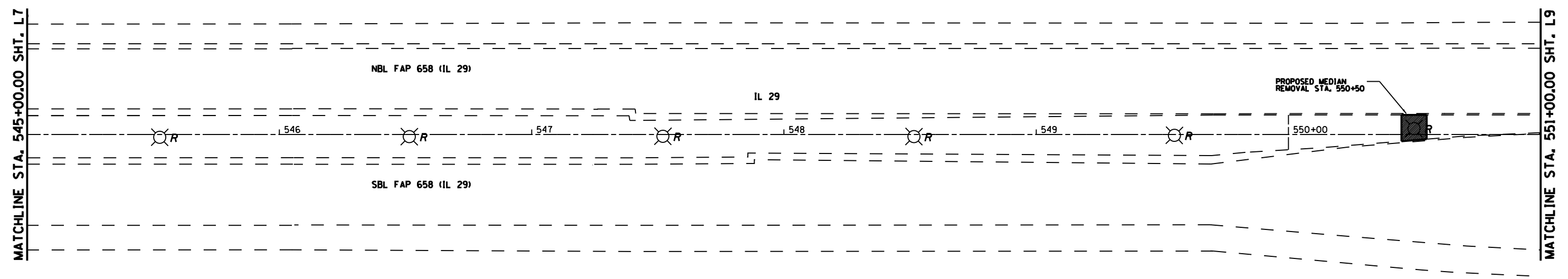
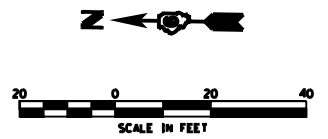


STA 539+88.76 IL 29 (E104) =
STA 29+81.00 BROWNING RD (S109)

LEGEND

- EXISTING LIGHTING UNIT TO BE REMOVED (NO SALVAGE)
- EXISTING LIGHTING CONTROLLER TO BE REMOVED
- EXISTING ELECTRIC SERVICE INSTALLATION TO BE REMOVED

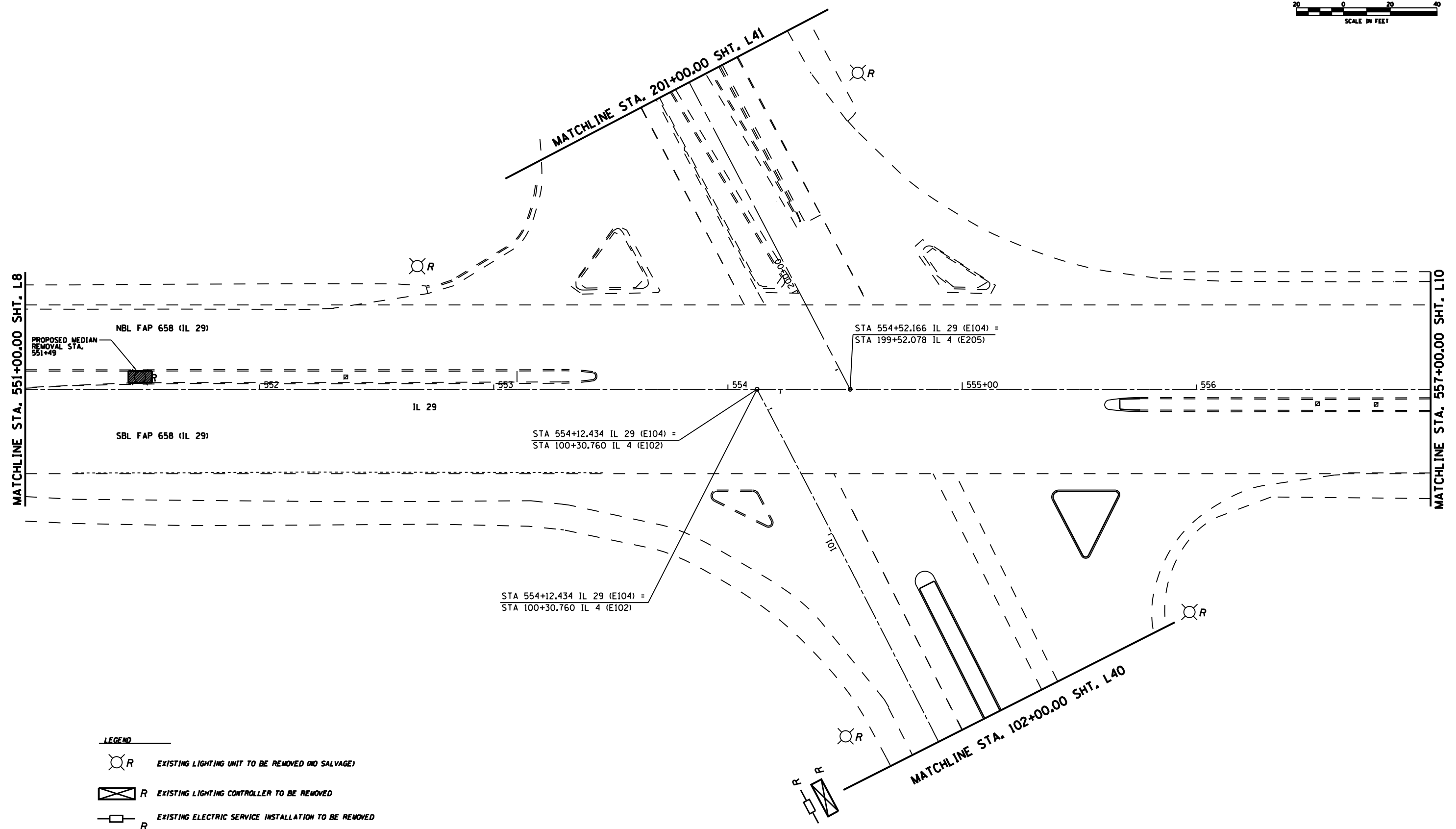
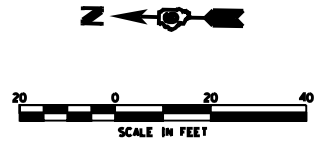
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PLOT DATE = 5/8/2015	DATE -	REVISED -	ILLINOIS FED. AID PROJECT									






LEGEND

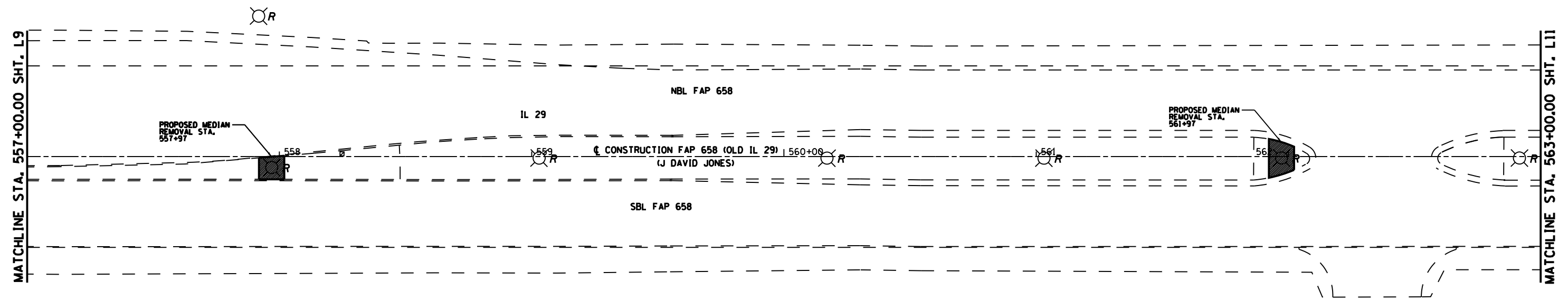
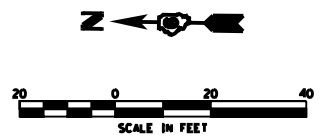
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PLOT DATE = 5/8/2015	DATE -	REVISED -	SCALE:		STA.	TO STA.	ILLINOIS FED. AID PROJECT				






- LEGEND**
-  EXISTING LIGHTING UNIT TO BE REMOVED (NO SALVAGE)
 -  EXISTING LIGHTING CONTROLLER TO BE REMOVED
 -  EXISTING ELECTRIC SERVICE INSTALLATION TO BE REMOVED

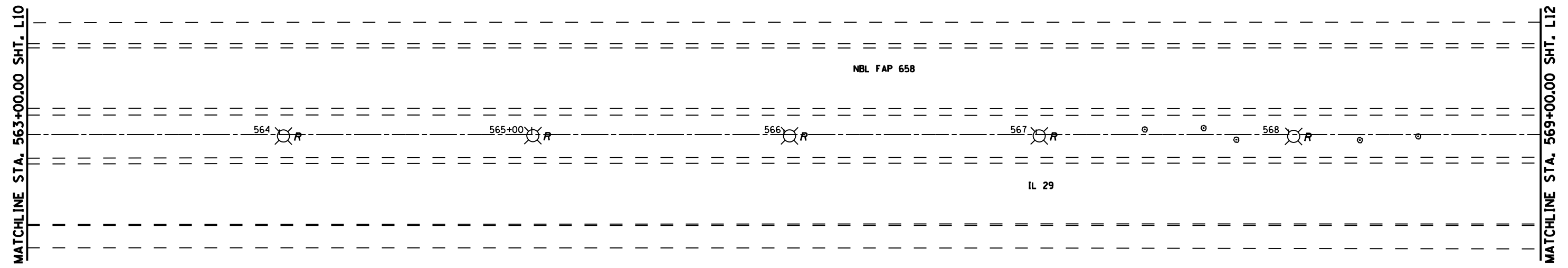
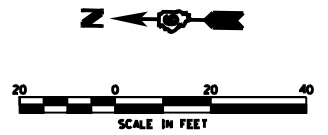
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PLOT DATE = 5/8/2015	DATE -	REVISED -	REVISED -		ILLINOIS FED. AID PROJECT							



LEGEND

-  **EXISTING LIGHTING UNIT TO BE REMOVED (NO SALVAGE)**
-  **EXISTING LIGHTING CONTROLLER TO BE REMOVED**
-  **EXISTING ELECTRIC SERVICE INSTALLATION TO BE REMOVED**

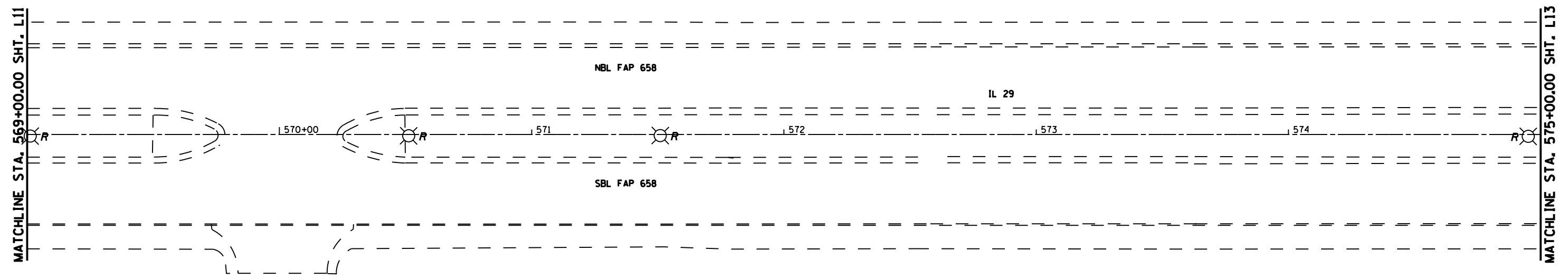
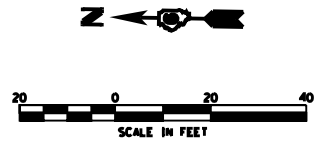
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PLOT DATE = 5/8/2015	DATE -	REVISED -	SCALE:		STA.	TO STA.	ILLINOIS FED. AID PROJECT				






LEGEND

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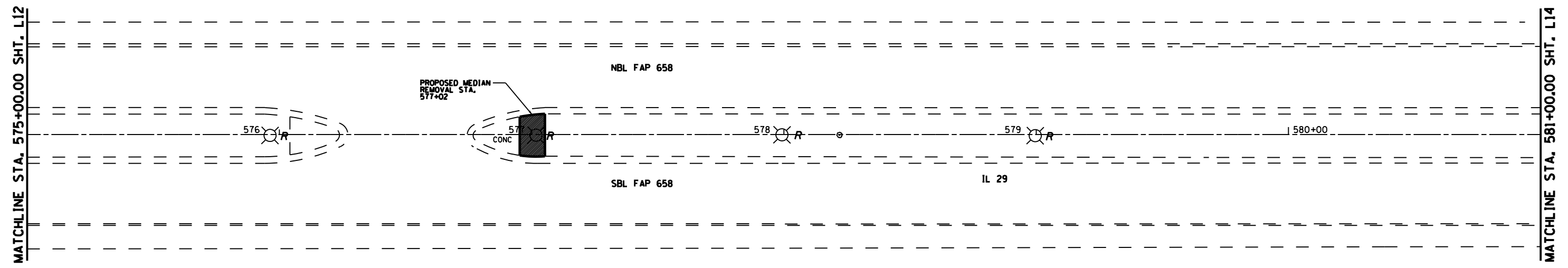
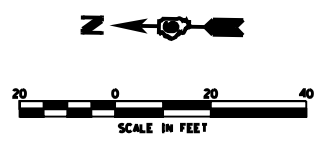
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	PLOT DATE = 5/8/2015	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									






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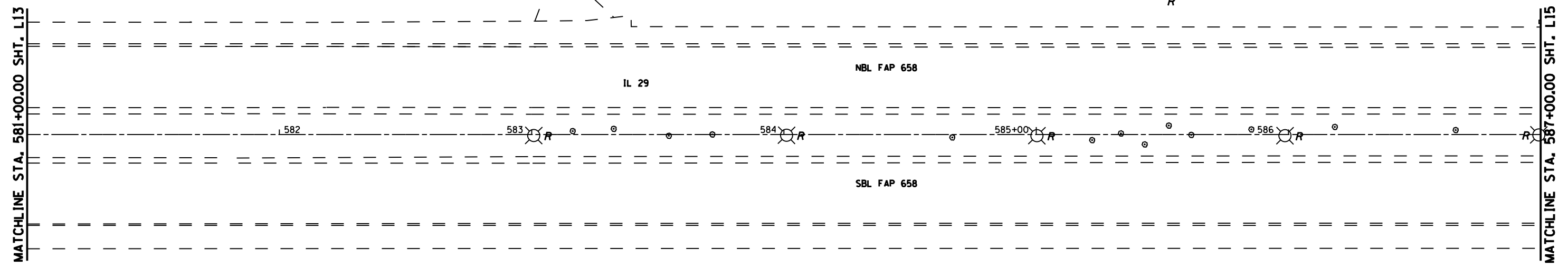
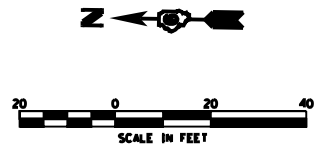
-  **R** EXISTING LIGHTING UNIT TO BE REMOVED (NO SALVAGE)
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


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	PLOT SCALE = 40.1563' / 1"	DRAWN -	REVISED -				SCALE:	STA.	TO STA.	CONTRACT NO. 72H40		
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		DATE -	REVISED -									



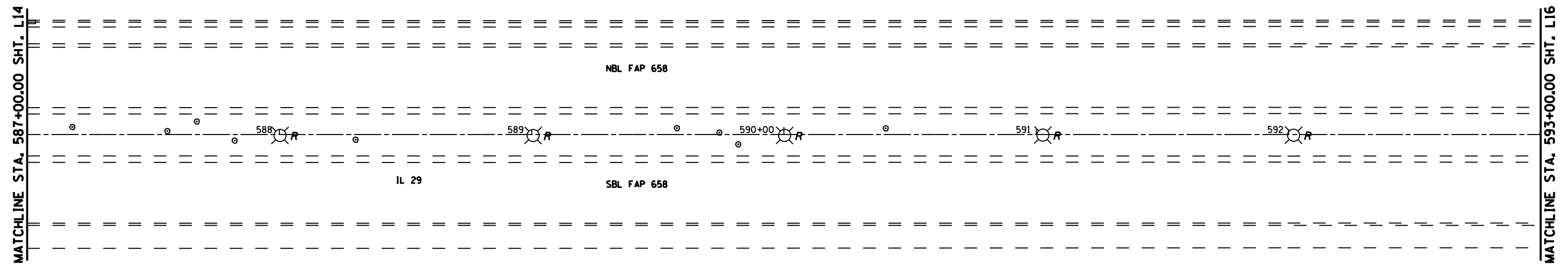
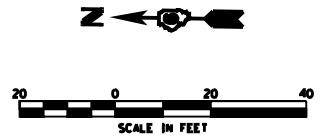
- LEGEND**
-  EXISTING LIGHTING UNIT TO BE REMOVED (NO SALVAGE)
 -  EXISTING LIGHTING CONTROLLER TO BE REMOVED
 -  EXISTING ELECTRIC SERVICE INSTALLATION TO BE REMOVED

FILE NAME = S:\CONTRMAINT\CAD\72H40 - FAP 658 (IL 29) - Lighting - Sangamon\PLANS\ALL-SHEETS.dgn	USER NAME = sharptd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 29, GRAND AVE. TO D. OF HACKMORE DR. LIGHTING REMOVAL PLAN		F.A.P. RTE. 658	SECTION (102) L	COUNTY SANGAMON	TOTAL SHEETS 48	SHEET NO. 15	
	PLOT SCALE = 40.1563' / 1"	DRAWN -	REVISED -				SCALE:	STA.	TO STA.	CONTRACT NO. 72H40		
	PLOT DATE = 5/8/2015	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									






- LEGEND**
-  EXISTING LIGHTING UNIT TO BE REMOVED (NO SALVAGE)
 -  EXISTING LIGHTING CONTROLLER TO BE REMOVED
 -  EXISTING ELECTRIC SERVICE INSTALLATION TO BE REMOVED

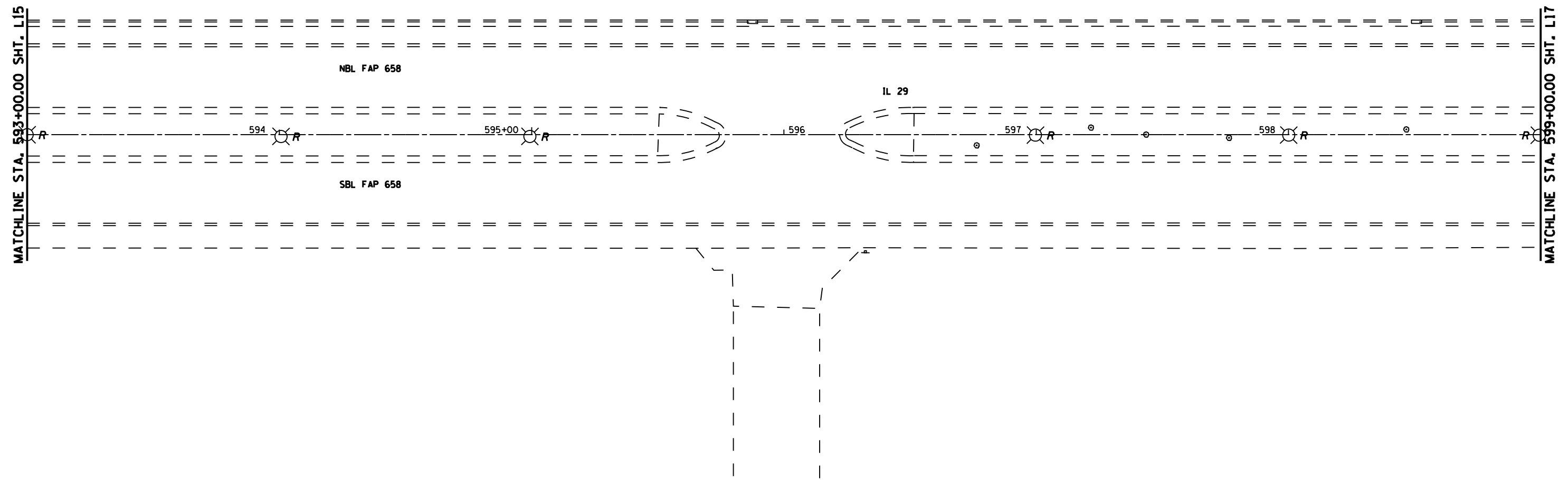
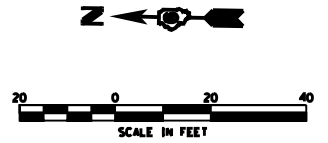
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	PLOT SCALE = 40.1563' / 1"	DRAWN -	REVISED -			SCALE:	STA.	TO STA.	CONTRACT NO. 72H40		
	PLOT DATE = 5/8/2015	CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT					
		DATE -	REVISED -								



LEGEND

-  **EXISTING LIGHTING UNIT TO BE REMOVED (NO SALVAGE)**
-  **EXISTING LIGHTING CONTROLLER TO BE REMOVED**
-  **EXISTING ELECTRIC SERVICE INSTALLATION TO BE REMOVED**

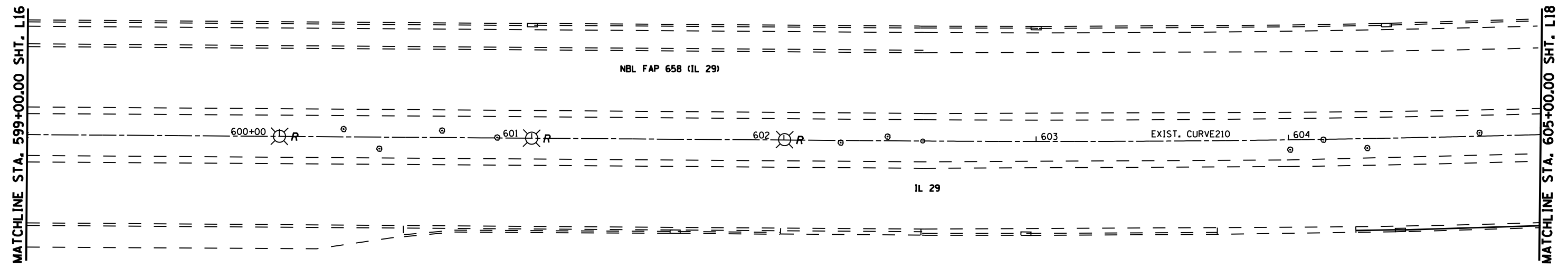
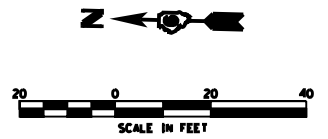
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	PLOT SCALE = 40.1563' / in.	CHECKED -	REVISED -				CONTRACT NO. 72H40				
	PLOT DATE = 5/8/2015	DATE -	REVISED -				SCALE:	STA.	TO STA.	ILLINOIS FED. AID PROJECT	






LEGEND

- EXISTING LIGHTING UNIT TO BE REMOVED (NO SALVAGE)
- EXISTING LIGHTING CONTROLLER TO BE REMOVED
- EXISTING ELECTRIC SERVICE INSTALLATION TO BE REMOVED

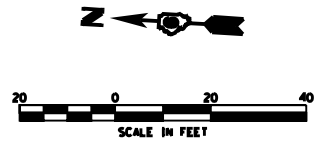
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	PLOT SCALE = 40.1563' / 1"	DRAWN -	REVISED -				SCALE:	STA.	TO STA.	CONTRACT NO. 72H40		
	PLOT DATE = 5/8/2015	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									



LEGEND

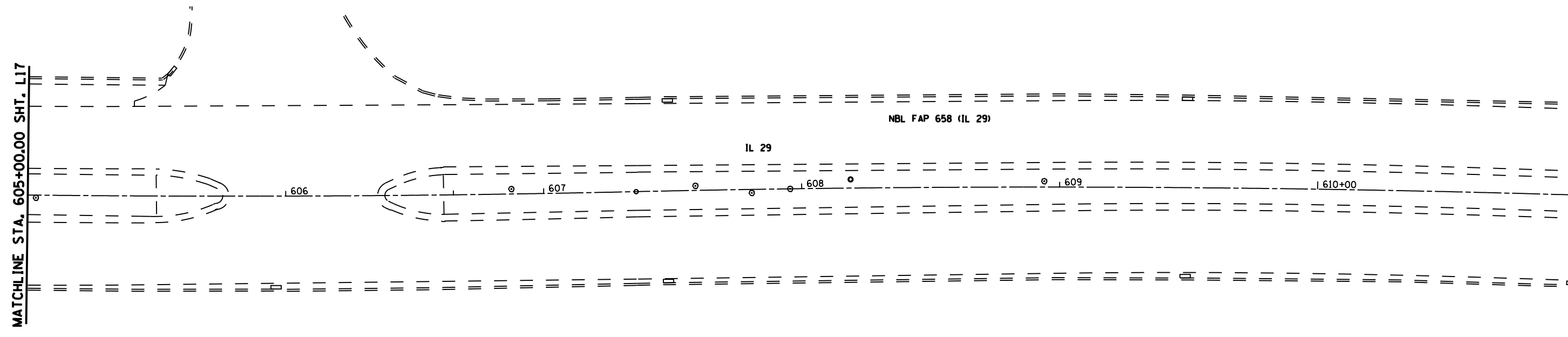
-  **R** EXISTING LIGHTING UNIT TO BE REMOVED (NO SALVAGE)
-  **R** EXISTING LIGHTING CONTROLLER TO BE REMOVED
-  **R** EXISTING ELECTRIC SERVICE INSTALLATION TO BE REMOVED

FILE NAME = S:\CONTRMAINT.CAD\72H40 - FAP 658 (IL 29) - Lighting - Sangamon\PLANS\ALL-SHEETS.dgn	USER NAME = sharptd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 29, GRAND AVE. TO D. OF HACKMORE DR. LIGHTING REMOVAL PLAN		F.A.P. RTE. 658	SECTION (102) L	COUNTY SANGAMON	TOTAL SHEETS 48	SHEET NO. 19	
	PLOT SCALE = 40.1563' / in.	CHECKED -	REVISED -				SCALE:	STA.	TO STA.	CONTRACT NO. 72H40		
	PLOT DATE = 5/8/2015	DATE -	REVISED -		ILLINOIS FED. AID PROJECT							



MATCHLINE STA. 605+00.00 SHT. L17

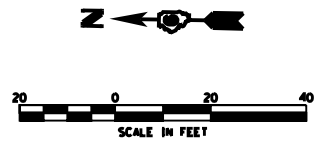
MATCHLINE STA. 611+00.00 SHT. L19



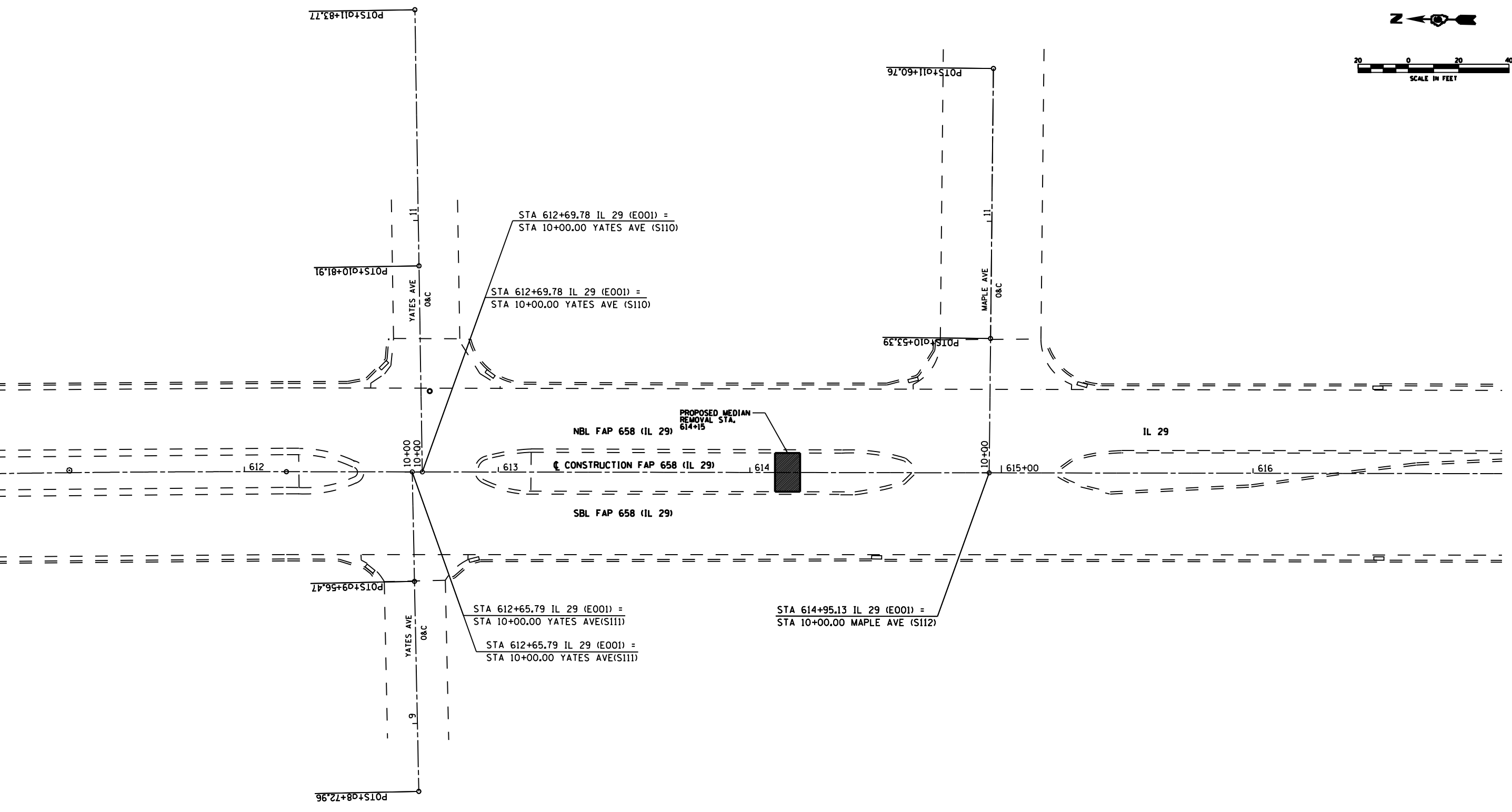
LEGEND

- R EXISTING LIGHTING UNIT TO BE REMOVED (NO SALVAGE)
- R EXISTING LIGHTING CONTROLLER TO BE REMOVED
- R EXISTING ELECTRIC SERVICE INSTALLATION TO BE REMOVED

FILE NAME = S:\CONTRMAINT.CAD\72H40 - FAP 658 (IL 29) - Lighting - Sangamon\PLANS\ALL-SHEETS.dgn	USER NAME = sharptd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 29, GRAND AVE. TO S. OF HACKMORE DR. EXISTING REMOVAL PLAN	F.A.P. RTE. 658	SECTION (102) L	COUNTY SANGAMON	TOTAL SHEETS 48	SHEET NO. 20	
	PLOT SCALE = 40.1563' / 1" = 1/4" = 1/4" = 1/4"	DRAWN -	REVISED -			SCALE:	STA. TO STA.	CONTRACT NO. 72H40			
	PLOT DATE = 5/8/2015	CHECKED -	REVISED -					ILLINOIS FED. AID PROJECT			
		DATE -	REVISED -								

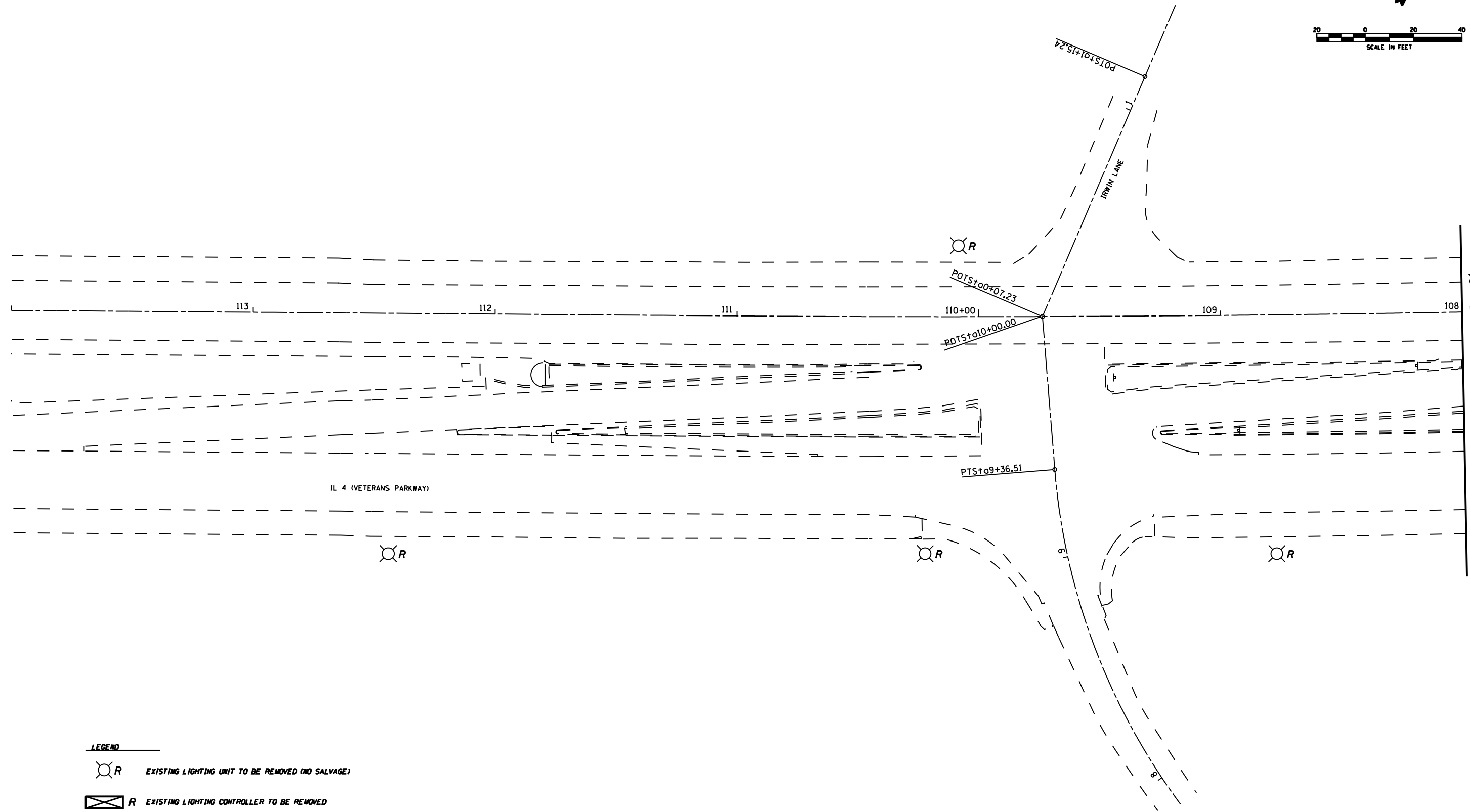
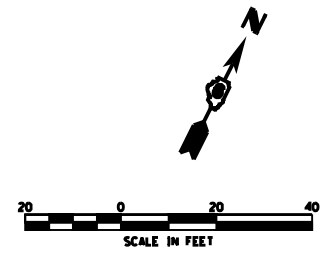


MATCHLINE STA. 611+00.00 SHT. L18






- LEGEND**
- EXISTING LIGHTING UNIT TO BE REMOVED (NO SALVAGE)
 - EXISTING LIGHTING CONTROLLER TO BE REMOVED
 - EXISTING ELECTRIC SERVICE INSTALLATION TO BE REMOVED

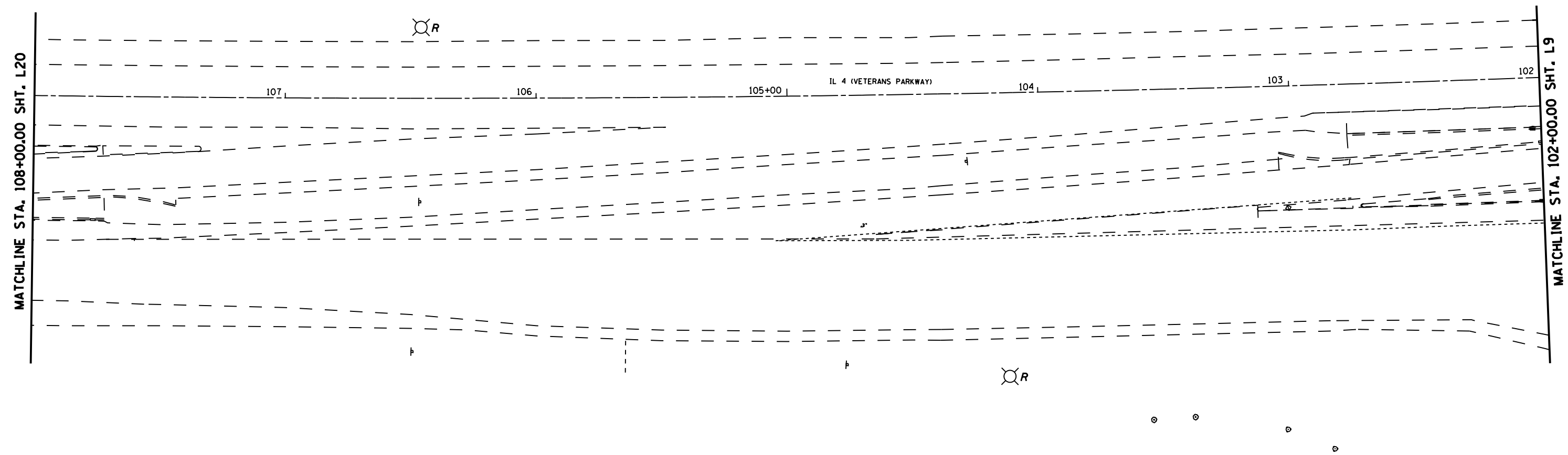
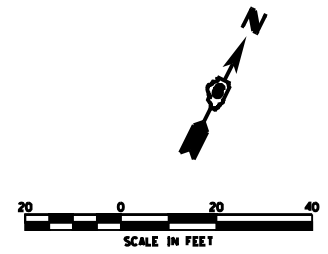
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PLOT SCALE = 40.1563' / in.	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 72H40					
PLOT DATE = 5/8/2015	DATE -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT					
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




LEGEND

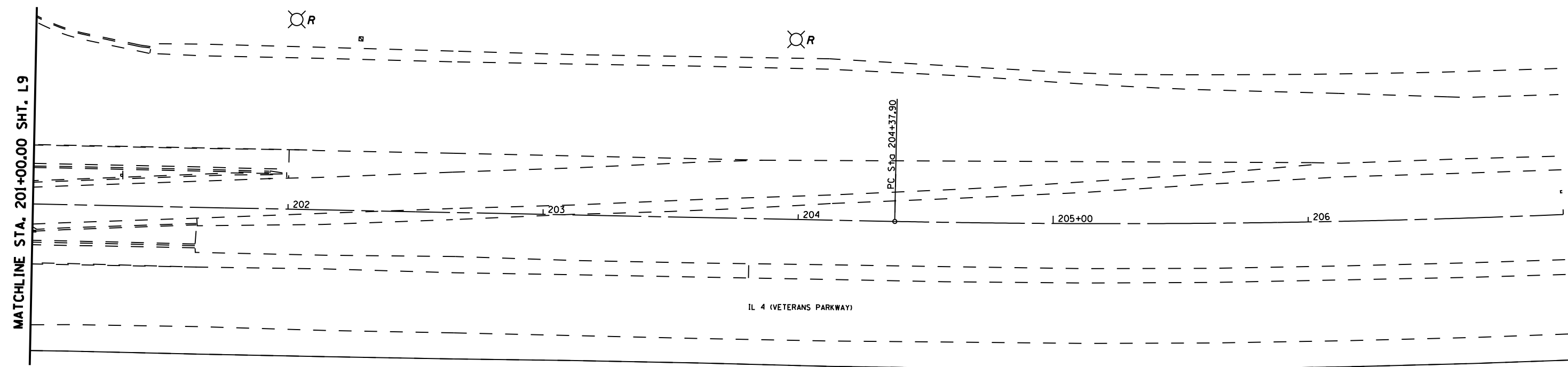
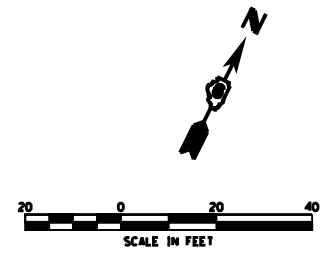
-  **EXISTING LIGHTING UNIT TO BE REMOVED (NO SALVAGE)**
-  **EXISTING LIGHTING CONTROLLER TO BE REMOVED**
-  **EXISTING ELECTRIC SERVICE INSTALLATION TO BE REMOVED**

FILE NAME = S:\CONTRMAINT.CAD\72H40 - FAP 658 (IL 29) - Lighting - Sangamon\PLANS\ALL-SHEETS.dgn	USER NAME = sherpdt	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 29, GRAND AVE. TO D. OF HACKMORE DR. LIGHTING REMOVAL PLAN		F.A.P. RTE. 658	SECTION (102) L	COUNTY SANGAMON	TOTAL SHEETS 48	SHEET NO. 22
	PLOT SCALE = 40.1563' / 1"	CHECKED -	REVISED -				CONTRACT NO. 72H40				
PLOT DATE = 5/8/2015	DATE -	REVISED -	SCALE:		STA.	TO STA.	ILLINOIS FED. AID PROJECT				






- LEGEND**
-  **R** EXISTING LIGHTING UNIT TO BE REMOVED (NO SALVAGE)
 -  **R** EXISTING LIGHTING CONTROLLER TO BE REMOVED
 -  **R** EXISTING ELECTRIC SERVICE INSTALLATION TO BE REMOVED

FILE NAME = S:\CONTRMAINT.CAD\72H40 - FAP 658 (IL 29) - Lighting - Sangamon\PLANS\ALL-SHEETS.dgn	USER NAME = sharptd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 29, GRAND AVE. TO D. OF HACKMORE DR. LIGHTING REMOVAL PLAN	F.A.P. RTE. = 658	SECTION = (102) L	COUNTY = SANGAMON	TOTAL SHEETS = 48	SHEET NO. = 23	
	PLOT SCALE = 40.1563' / in.	DRAWN -	REVISED -			SCALE:	STA. TO STA.	CONTRACT NO. 72H40			
	PLOT DATE = 5/8/2015	CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT					
		DATE -	REVISED -								



LEGEND

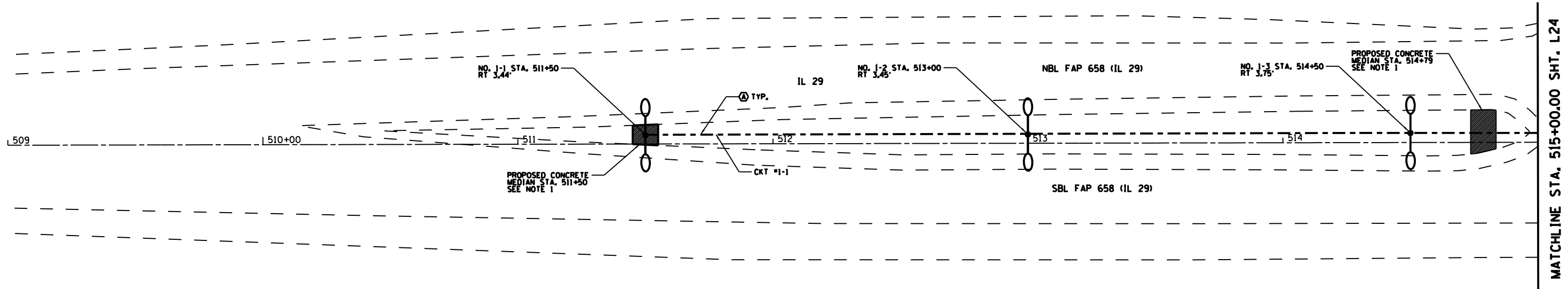
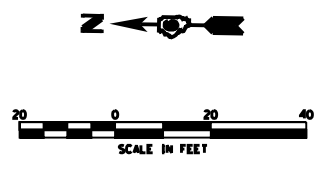
-  **R** EXISTING LIGHTING UNIT TO BE REMOVED (NO SALVAGE)
-  **R** EXISTING LIGHTING CONTROLLER TO BE REMOVED
-  **R** EXISTING ELECTRIC SERVICE INSTALLATION TO BE REMOVED

FILE NAME = S:\CONTRMAINT.CAD\72H40 - FAP 658 (IL 29) - Lighting - Sangamon\PLANS\ALL-SHEETS.dgn	USER NAME = sharptd	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 40.1563' / 1"	CHECKED -	REVISED -
	PLOT DATE = 5/8/2015	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 29, GRAND AVE. TO D. OF HACKMORE DR.
LIGHTING REMOVAL PLAN**

F.A.P. RTE. 658	SECTION (102) L	COUNTY SANGAMON	TOTAL SHEETS 48	SHEET NO. 24
CONTRACT NO. 72H40				
ILLINOIS FED. AID PROJECT				



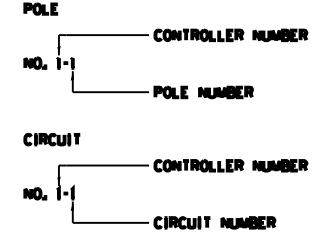
LEGEND

- PROPOSED LIGHTING UNIT, ALUMINUM POLE, 50' MOUNTING HEIGHT, 10' DAVIT ARM-TWIN, HIGH WATTAGE HORIZONTAL MOUNT LED LUMINAIRE, BLACK FINISH, CONCRETE FOUNDATION 30" DIA., BREAKAWAY TRANSFORMER BASE 17" BOLT CIRCLE.
- PROPOSED LIGHTING UNIT, ALUMINUM POLE, 50' MOUNTING HEIGHT, 15' DAVIT ARM, HIGH WATTAGE HORIZONTAL MOUNT, CONCRETE FOUNDATION 30" DIA., BREAKAWAY TRANSFORMER BASE 17" BOLT CIRCLE.
- PROPOSED LIGHTING UNIT, ALUMINUM POLE, 30' MOUNTING HEIGHT, 10' DAVIT ARM-TWIN, LOW WATTAGE HORIZONTAL MOUNT LED LUMINAIRE, BLACK FINISH, CONCRETE FOUNDATION 24" DIA., BREAKAWAY TRANSFORMER BASE 12" BOLT CIRCLE.
- PROPOSED LIGHTING UNIT, ALUMINUM POLE, 23' MOUNTING HEIGHT, 10' (TYP.) DAVIT ARM-TWIN, LOW WATTAGE HORIZONTAL MOUNT LED LUMINAIRE, BLACK FINISH, CONCRETE FOUNDATION 24" DIA., BREAKAWAY TRANSFORMER BASE 12" BOLT CIRCLE.
- PROPOSED LIGHTING UNIT, ALUMINUM POLE, 23' MOUNTING HEIGHT, 10' DAVIT ARM, LOW WATTAGE HORIZONTAL MOUNT LED LUMINAIRE, BLACK FINISH, CONCRETE FOUNDATION 24" DIA., BREAKAWAY TRANSFORMER BASE 12" BOLT CIRCLE.
- PROPOSED COMBINATION LUMINAIRE, LOW WATTAGE HORIZONTAL MOUNT LED LUMINAIRE.
- PROPOSED COMBINATION LUMINAIRE, HIGH WATTAGE HORIZONTAL MOUNT LED LUMINAIRE.
- PROPOSED UNIT DUCT, SIZE AS NOTED.
- PROPOSED UNDERGROUND CONDUIT, COILABLE NON-METALLIC, 3" DIA., SCHEDULE 80.
- PROPOSED LIGHTING CONTROLLER, BASE MOUNTED, 240V, 100 AMP.
- PROPOSED ELECTRIC SERVICE INSTALLATION, 120/240V, 1 PHASE 4 WIRE.

CABLE / CONDUIT SCHEDULE

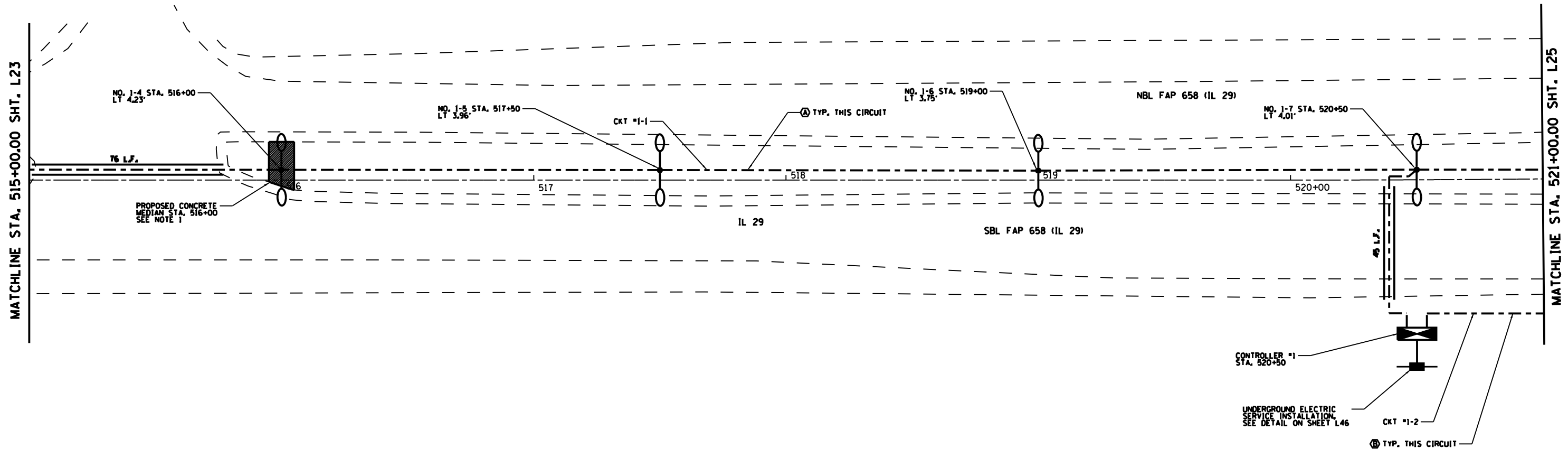
- Ⓐ UNIT DUCT, 600V, 2-1C NO. 8, 1/C NO. 8 GROUND, XLP-TYPE USE, 3/4" DIA. POLYETHYLENE
- Ⓑ UNIT DUCT, 600V, 2-1C NO. 6, 1/C NO. 8 GROUND, XLP-TYPE USE, 1" DIA. POLYETHYLENE
- Ⓒ UNIT DUCT, 600V, 2-1C NO. 4, 1/C NO. 6 GROUND, XLP-TYPE USE, 1" DIA. POLYETHYLENE

CALLOUT LEGEND



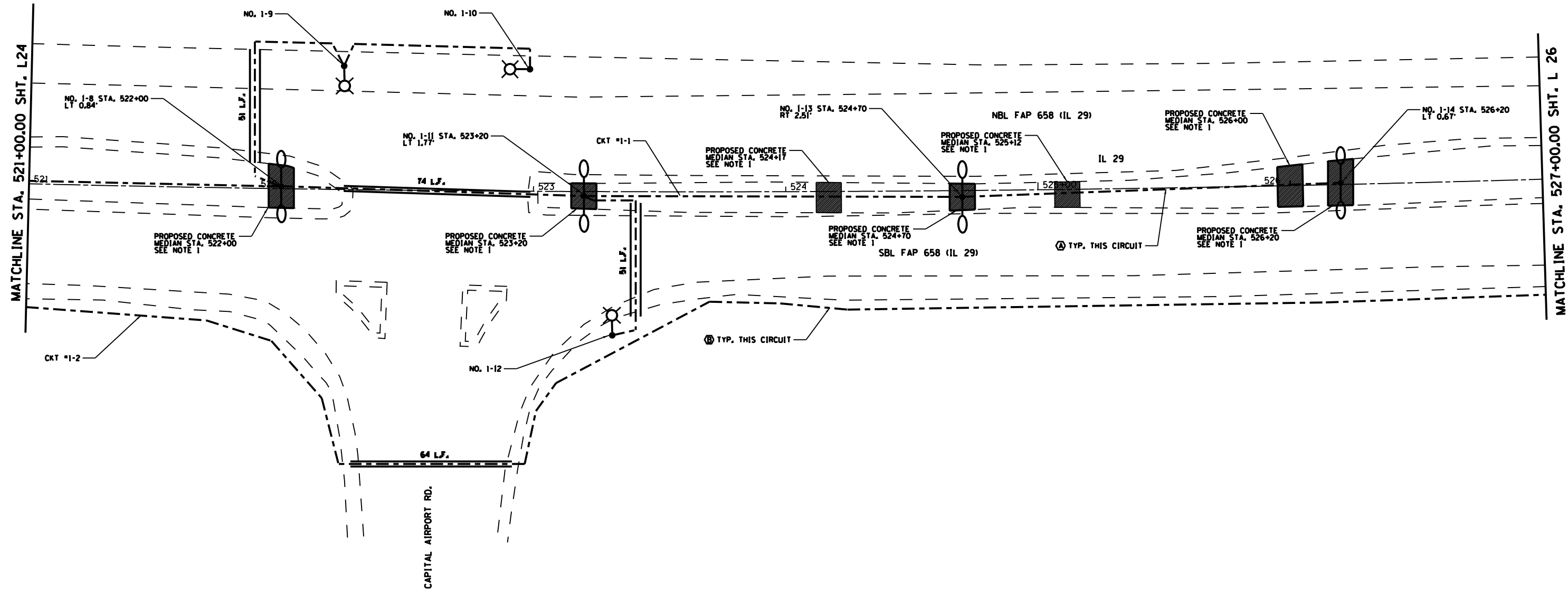
NOTES:
 1. LENGTH OF PROP. CONCRETE MEDIAN SHALL BE 10' WIDTH SHALL BE THE WIDTH OF THE EXIST. MEDIAN.

FILE NAME = S:\CONTRMAINT.CAD\72H40 - FAP 658 (IL 29) - Lighting - Sangamon\PLANS\ALL-SHEETS.dgn	USER NAME = sharptd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 29, GRAND AVE. TO S. OF HACKMORE DR. PROPOSED LIGHTING PLAN	F.A.P. RTE. 658	SECTION (102) L	COUNTY SANGAMON	TOTAL SHEETS 48	SHEET NO. 25
PLOT SCALE = 40.1563' / in.	CHECKED -	REVISED -	SCALE:			STA. TO STA.	CONTRACT NO. 72H40			
PLOT DATE = 5/8/2015	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							



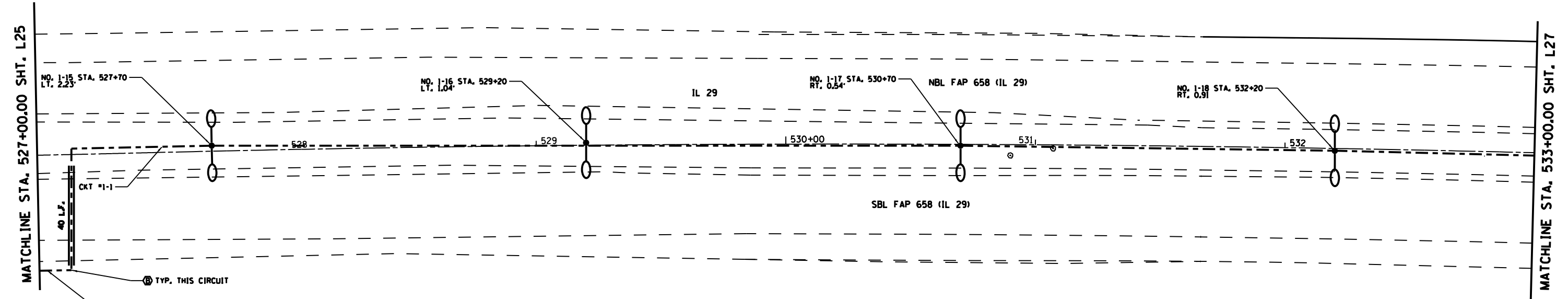
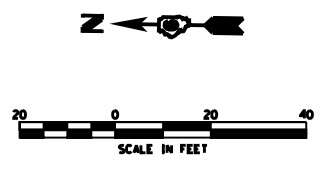
LEGENDS AND NOTES ON SHEET L23

FILE NAME = S:\CONTRMAINT.CAD\72H40 - FAP 658 (IL 29) - Lighting - Sangamon\PLANS\ALL-SHEETS.dgn	USER NAME = sharptd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 29, GRAND AVE. TO S. OF HACKMORE DR. PROPOSED LIGHTING PLAN	F.A.P. RTE. = 658	SECTION = (102) L	COUNTY = SANGAMON	TOTAL SHEETS = 88	SHEET NO. = 26
PLOT SCALE = 40.1563' / in.	CHECKED -	REVISED -	SCALE:			STA. TO STA.	CONTRACT NO. = 72H40			
PLOT DATE = 5/8/2015	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							



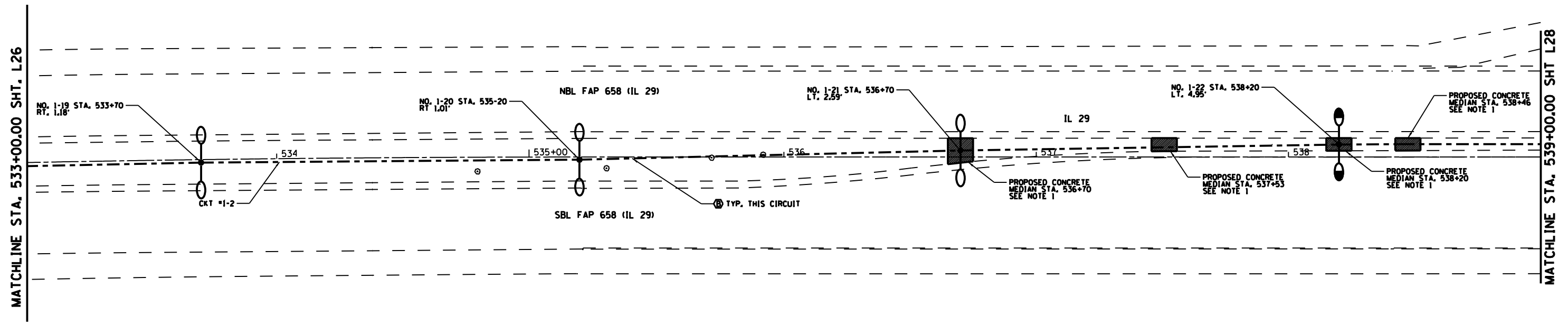
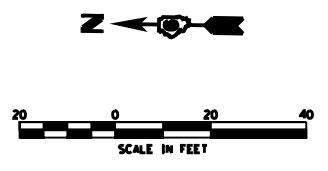
LEGENDS AND NOTES ON SHEET L23

FILE NAME = S:\CONTRMAINT.CAD\72H40 - FAP 658 (IL 29) - Lighting - Sangamon\PLANS\ALL-SHEETS.dgn	USER NAME = sharptd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 29, GRAND AVE. TO S. OF HACKMORE DR. PROPOSED LIGHTING PLAN	F.A.P. RTE. 658	SECTION (102) L	COUNTY SANGAMON	TOTAL SHEETS 48	SHEET NO. 27	
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PLOT DATE = 5/8/2015	DATE -	REVISED -	ILLINOIS FED. AID PROJECT								



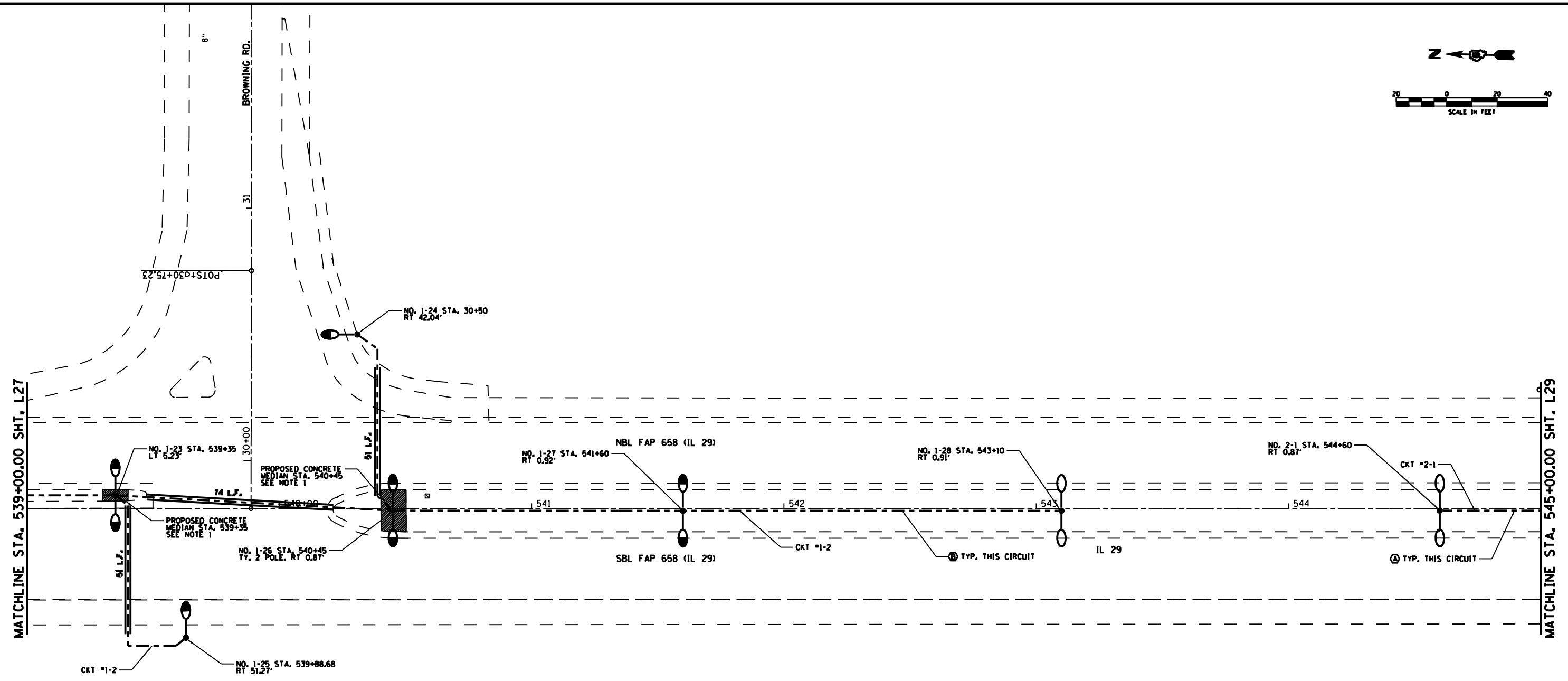
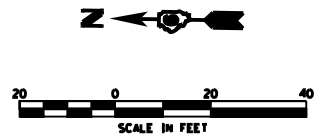
LEGENDS AND NOTES ON SHEET L23

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	PLOT DATE = 5/8/2015	CHECKED -	REVISED -						ILLINOIS FED. AID PROJECT		
		DATE -	REVISED -								



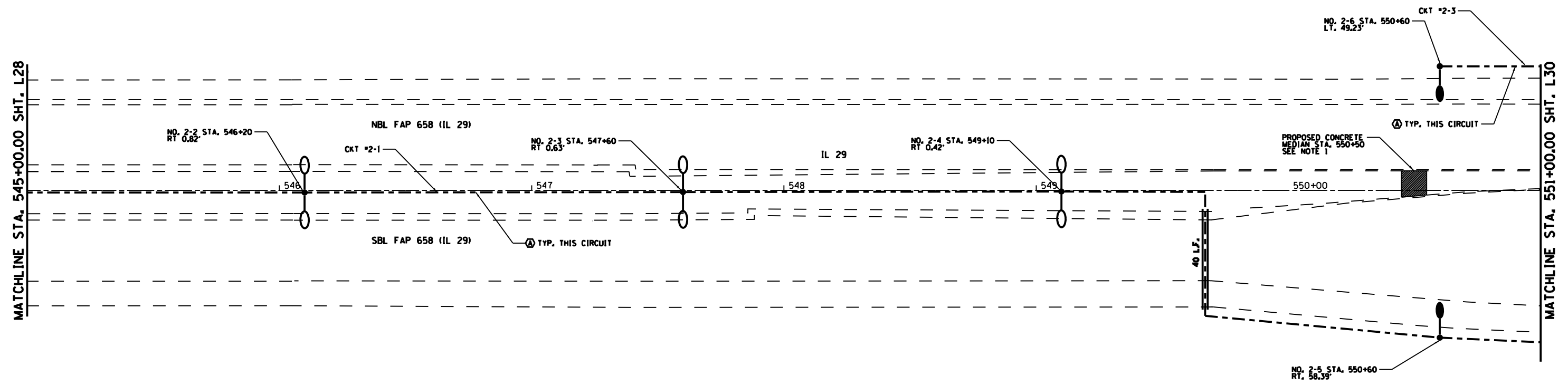
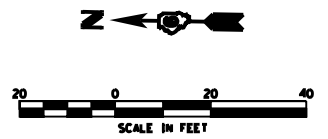
LEGENDS AND NOTES ON SHEET L23

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		DATE -	REVISED -								



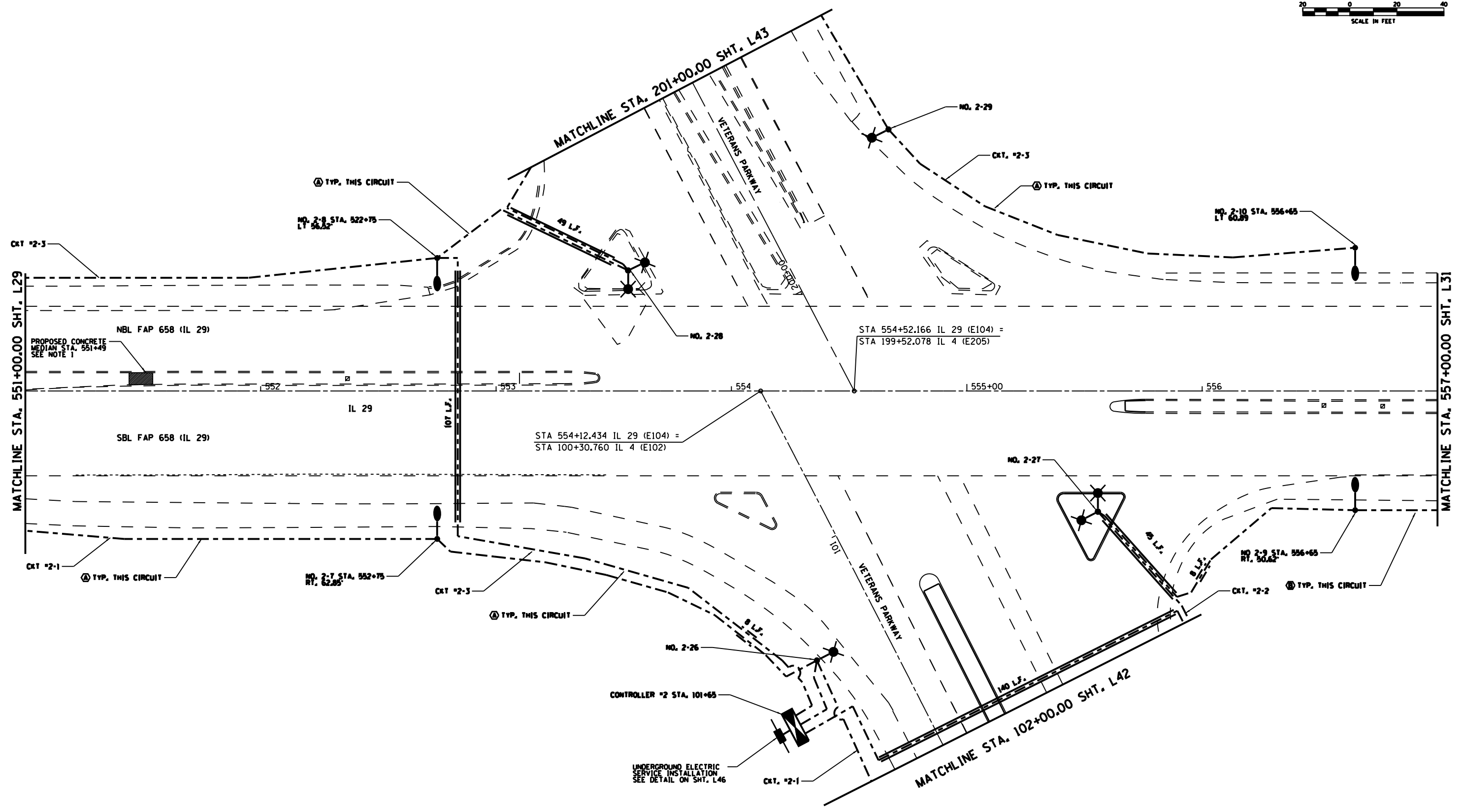
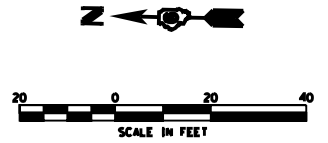
LEGENDS AND NOTES ON SHEET L23

FILE NAME = S:\CONTRMAINT.CAD\72H40 - FAP 658 (IL 29) - Lighting - Sangamon\PLANS\ALL-SHEETS.dgn	USER NAME = sherptd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 29, GRAND AVE. TO S. OF HACKMORE DR. PROPOSED LIGHTING PLAN	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 40.1563' / in.	DRAWN -	REVISED -			658	(102) L	SANGAMON	48	30	
	PLOT DATE = 5/8/2015	CHECKED -	REVISED -			CONTRACT NO. 72H40					
		DATE -	REVISED -			ILLINOIS FED. AID PROJECT					



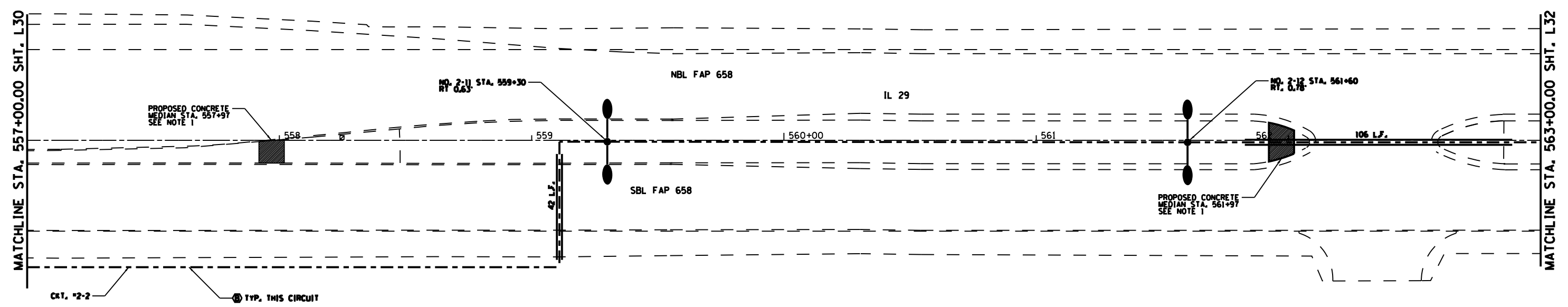
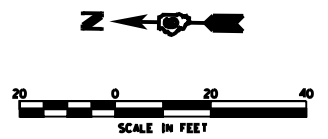
LEGENDS AND NOTES ON SHEET L23

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	PLOT SCALE = 40.1563' / in.	DRAWN -	REVISED -			SCALE:	STA. TO STA.	CONTRACT NO. 72H40			
	PLOT DATE = 5/8/2015	CHECKED -	REVISED -					ILLINOIS FED. AID PROJECT			
		DATE -	REVISED -								



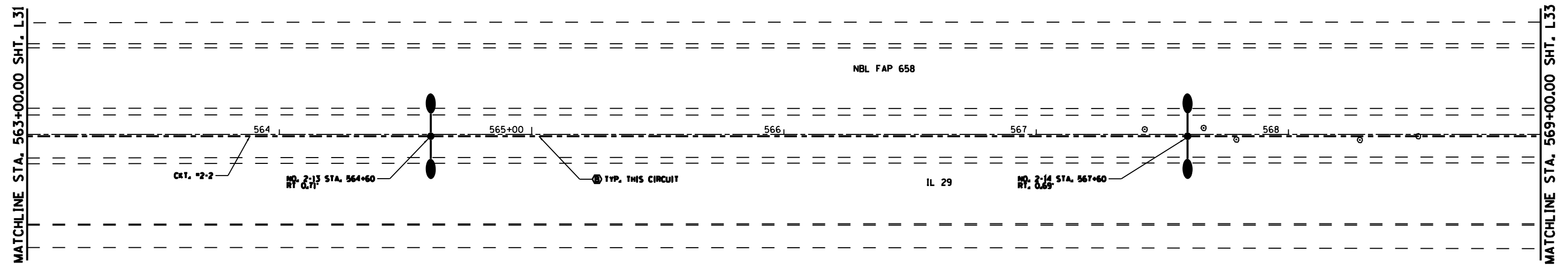
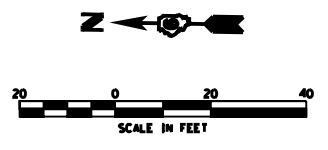
LEGENDS AND NOTES ON SHEET L23

FILE NAME = S:\CONTRMAINT.CAD\72H40 - FAP 658 (IL 29) - Lighting - Sangamon\PLANS\ALL-SHEETS.dgn	USER NAME = sherpdt	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 29, GRAND AVE. TO S. OF HACKMORE DR. PROPOSED LIGHTING PLAN		F.A.P. RTE. 658	SECTION (102) L	COUNTY SANGAMON	TOTAL SHEETS 48	SHEET NO. 32	
	PLOT SCALE = 40.1563' / in.	DRAWN -	REVISED -		SCALE:	STA.	TO STA.	CONTRACT NO. 72H40				
	PLOT DATE = 5/8/2015	CHECKED -	REVISED -					ILLINOIS FED. AID PROJECT				
		DATE -	REVISED -									



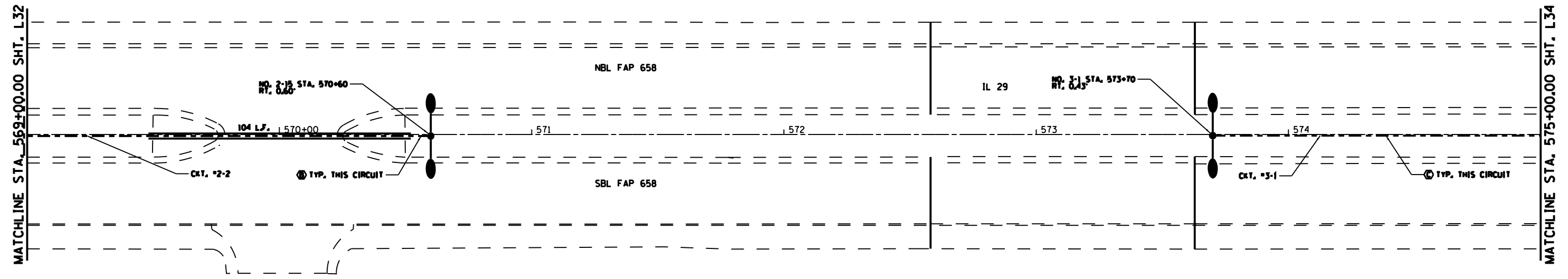
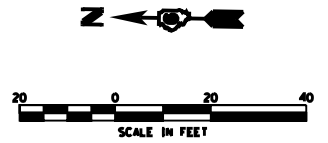
LEGENDS AND NOTES ON SHEET L23

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	PLOT SCALE = 40.1563' / in.	DRAWN -	REVISED -			SCALE:	STA.	TO STA.	CONTRACT NO. 72H40		
	PLOT DATE = 5/8/2015	CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT					
		DATE -	REVISED -								



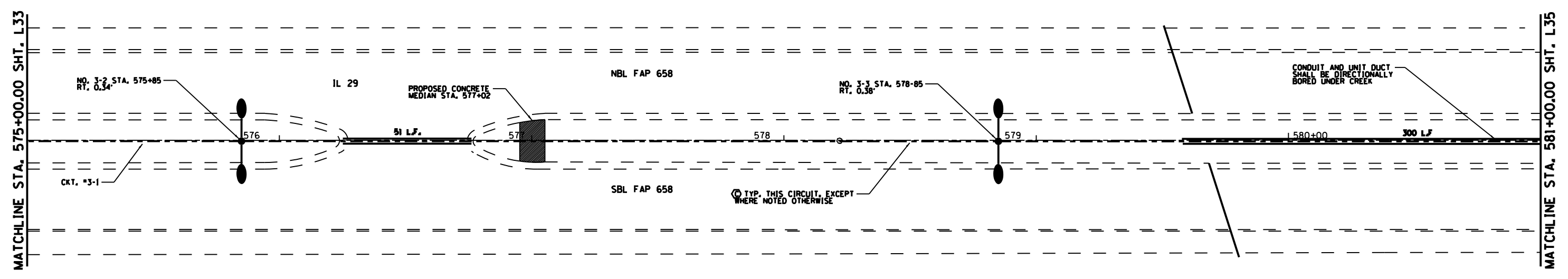
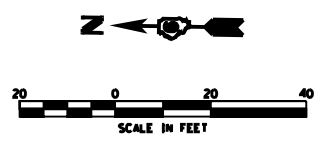
LEGENDS AND NOTES ON SHEET L23

FILE NAME = S:\CONTRMAINT\CAD\72H40 - FAP 658 (IL 29) - Lighting - Sangamon\PLANS\ALL-SHEETS.dgn	USER NAME = sherpdt	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 29, GRAND AVE. TO S. OF HACKMORE DR. PROPOSED LIGHTING PLAN	F.A.P. RTE. 658	SECTION (102) L	COUNTY SANGAMON	TOTAL SHEETS 48	SHEET NO. 34		
	PLOT SCALE = 40.1563' / in.	DRAWN -	REVISED -			SCALE:	STA. TO STA.	CONTRACT NO. 72H40				
	PLOT DATE = 5/8/2015	CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT						
		DATE -	REVISED -									



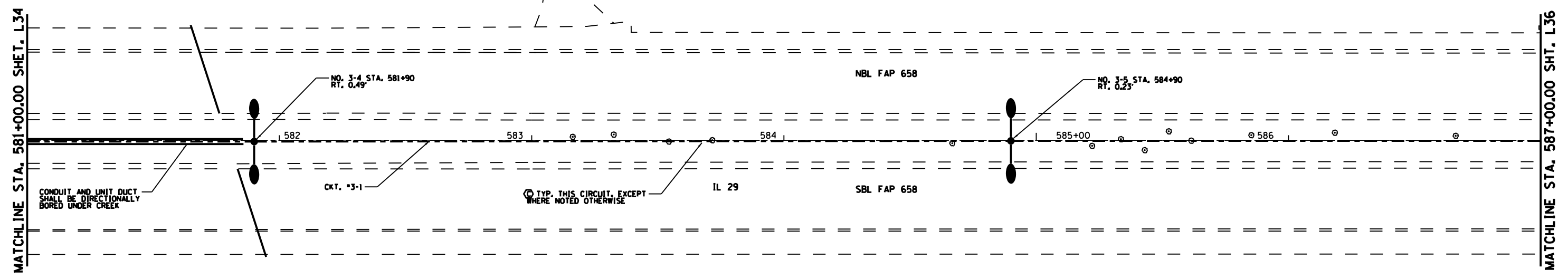
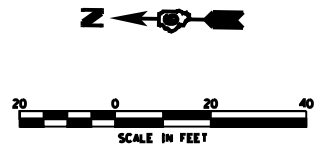
LEGENDS AND NOTES ON SHEET L23

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	PLOT SCALE = 40.1563' / in.	CHECKED -	REVISED -			CONTRACT NO. 72H40				
	PLOT DATE = 5/8/2015	DATE -	REVISED -			ILLINOIS FED. AID PROJECT				
						SCALE:	STA.	TO STA.		



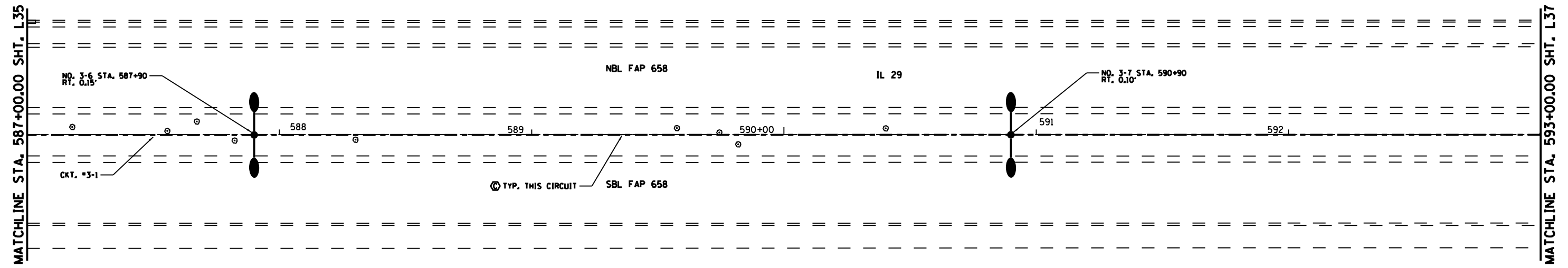
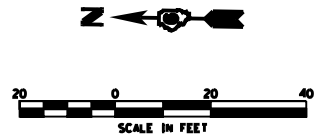
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PLOT SCALE = 40.1563' / in.	CHECKED -	REVISED -	SCALE:			STA.	TO STA.	CONTRACT NO. 72H40			
PLOT DATE = 5/8/2015	DATE -	REVISED -	ILLINOIS FED. AID PROJECT								



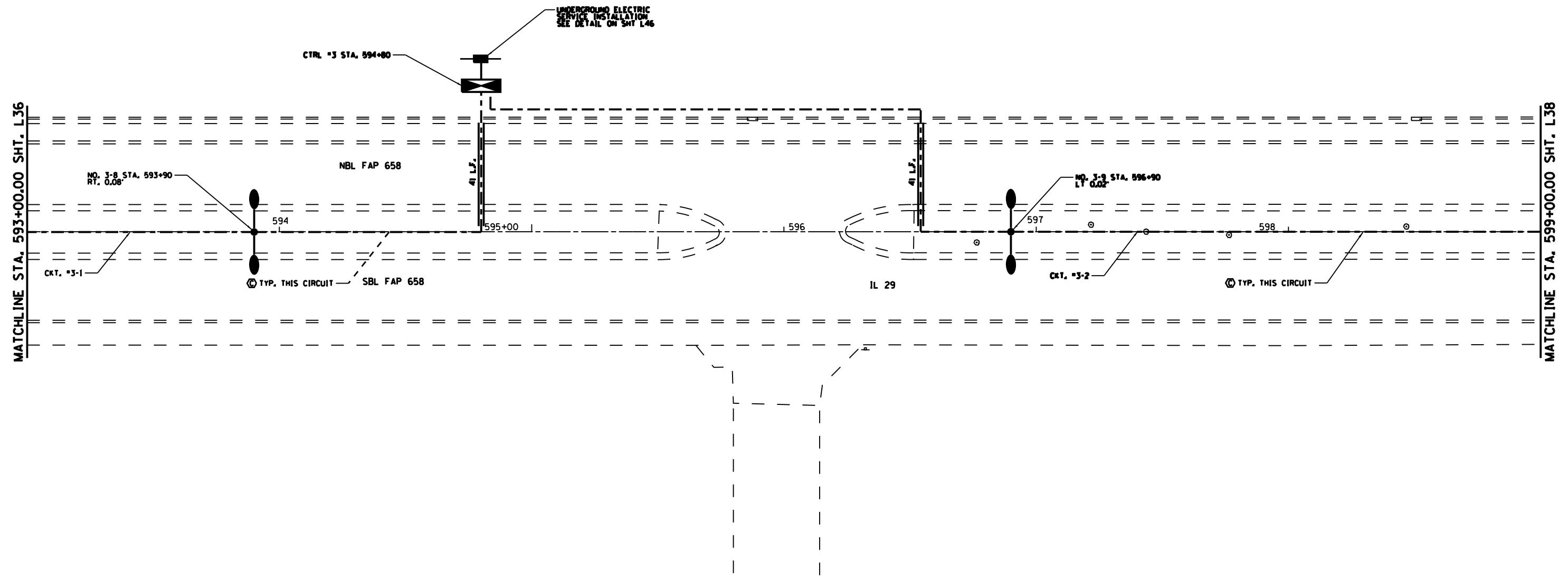
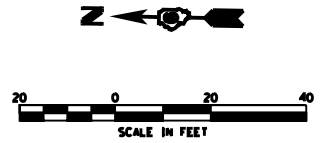
LEGENDS AND NOTES ON SHEET L23

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	PLOT SCALE = 40.1563' / in.	DRAWN -	REVISED -			SCALE:	STA.	TO STA.	CONTRACT NO. 72H40		
	PLOT DATE = 5/8/2015	CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT					
		DATE -	REVISED -								



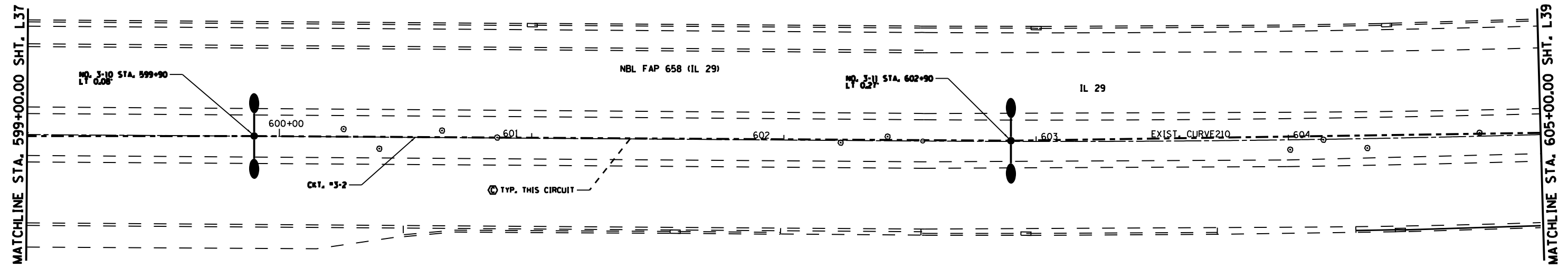
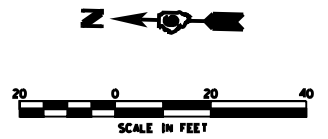
LEGENDS AND NOTES ON SHEET L23

FILE NAME = S:\CONTRMAINT\CAD\72H40 - FAP 658 (IL 29) - Lighting - Sangamon\PLANS\ALL-SHEETS.dgn	USER NAME = sherptd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 29, GRAND AVE. TO S. OF HACKMORE DR. PROPOSED LIGHTING PLAN		F.A.P. RTE. 658	SECTION (102) L	COUNTY SANGAMON	TOTAL SHEETS 48	SHEET NO. 38
	PLOT SCALE = 40.1563' / in.	CHECKED -	REVISED -				CONTRACT NO. 72H40				
	PLOT DATE = 5/8/2015	DATE -	REVISED -				ILLINOIS FED. AID PROJECT				
							SCALE:	STA.	TO STA.		



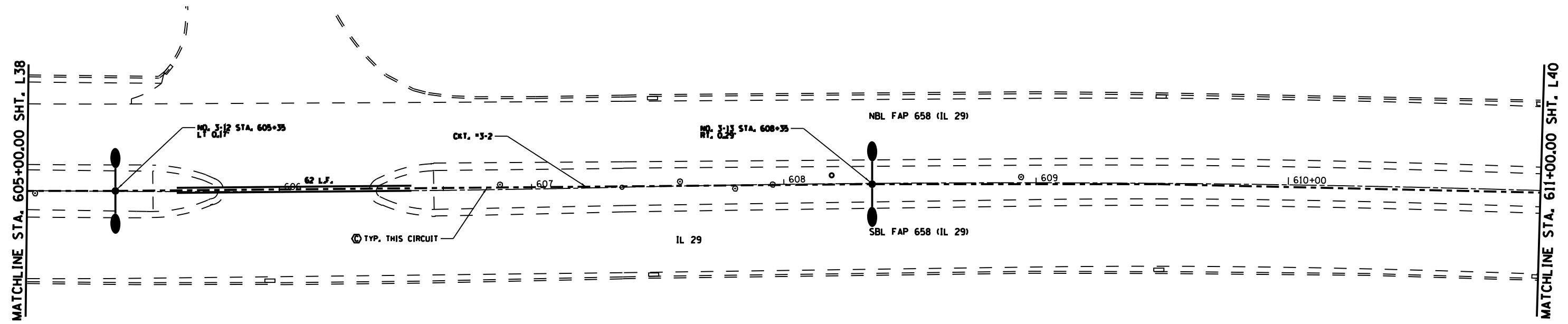
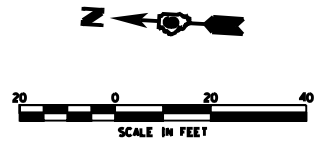
LEGENDS AND NOTES ON SHEET L23

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	PLOT SCALE = 40.1563' / in.	DRAWN -	REVISED -				SCALE:	STA.	TO STA.	CONTRACT NO. 72H40		
	PLOT DATE = 5/8/2015	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									



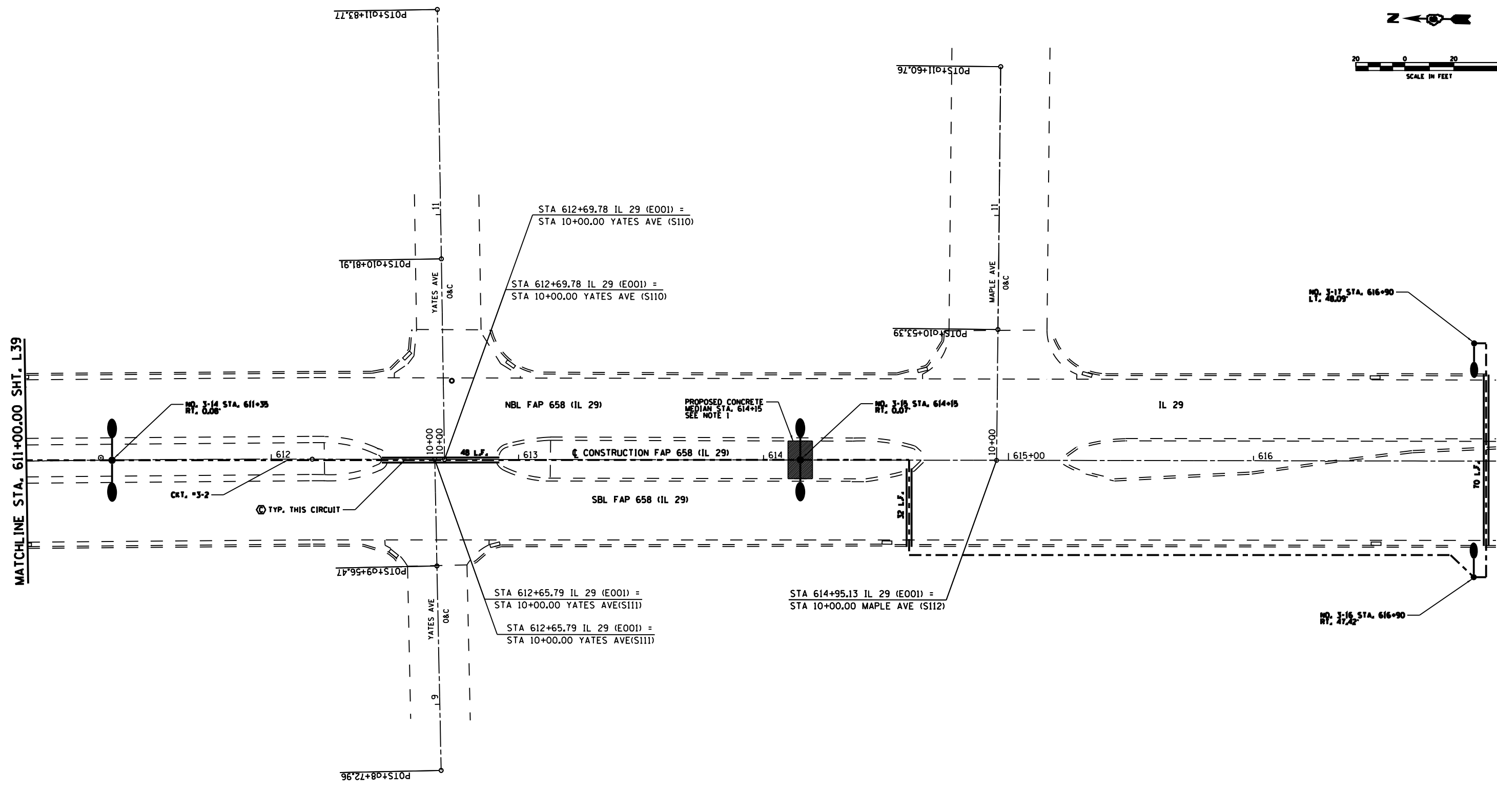
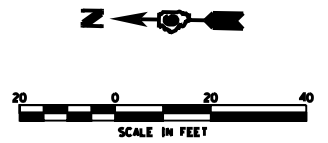
LEGENDS AND NOTES ON SHEET L23

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	PLOT SCALE = 40.1563' / in.	DRAWN -	REVISED -				SCALE:	STA.	TO STA.	CONTRACT NO. 72H40		
	PLOT DATE = 5/8/2015	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									



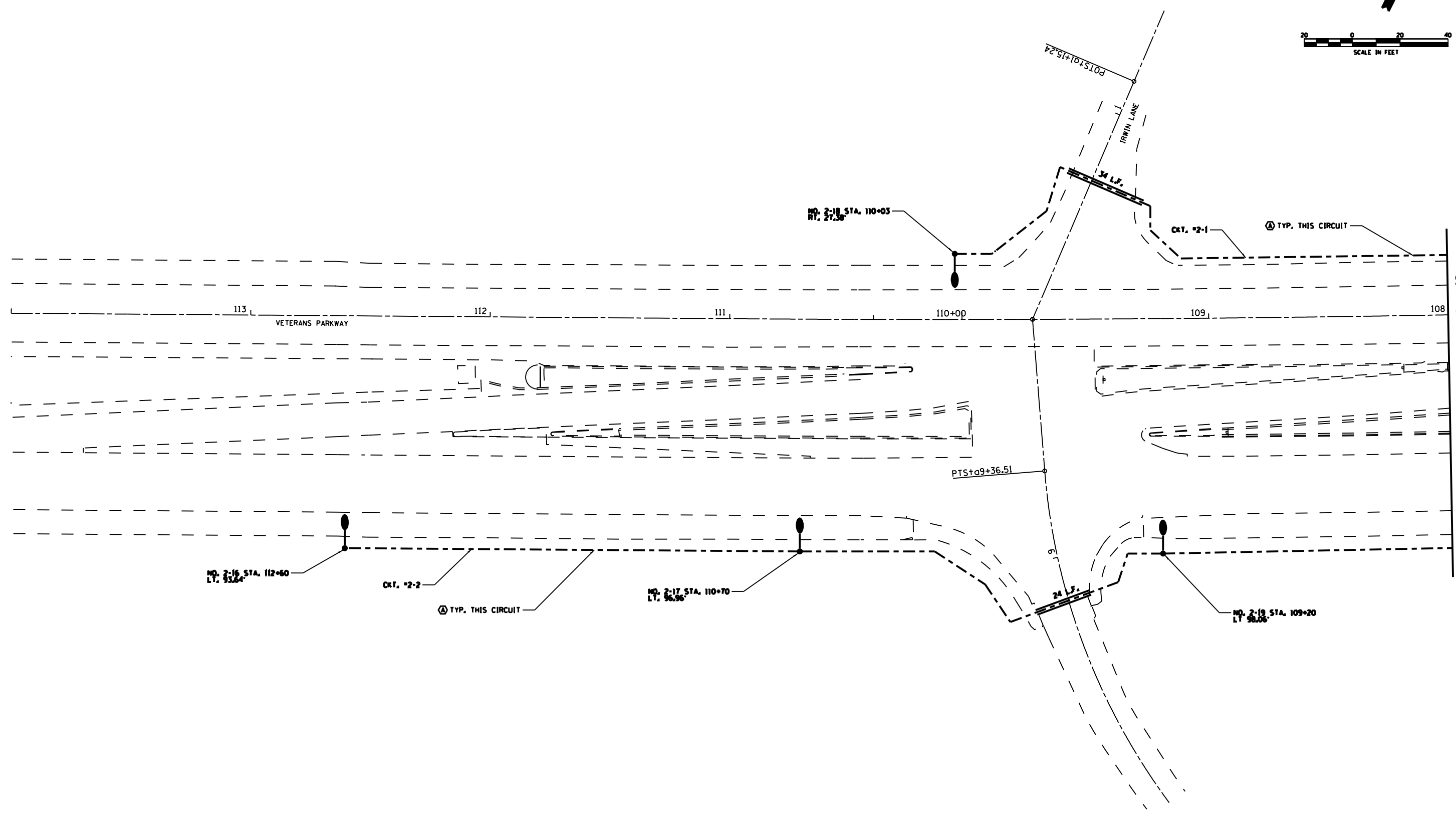
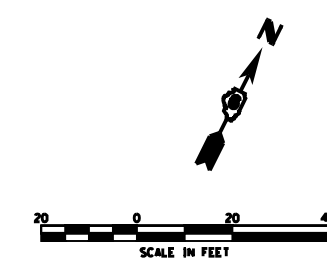
LEGENDS AND NOTES ON SHEET L23

FILE NAME = S:\CONTRMAINT.CAD\72H40 - FAP 658 (IL 29) - Lighting - Sangamon\PLANS\ALL-SHEETS.dgn	USER NAME = sharptd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 29, GRAND AVE. TO S. OF HACKMORE DR. PROPOSED LIGHTING PLAN	F.A.P. RTE. 658	SECTION (102) L	COUNTY SANGAMON	TOTAL SHEETS 48	SHEET NO. 41	
	PLOT SCALE = 40.1563' / in.	DRAWN -	REVISED -			SCALE:	STA.	TO STA.	CONTRACT NO. 72H40		
	PLOT DATE = 5/8/2015	CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT					
		DATE -	REVISED -								



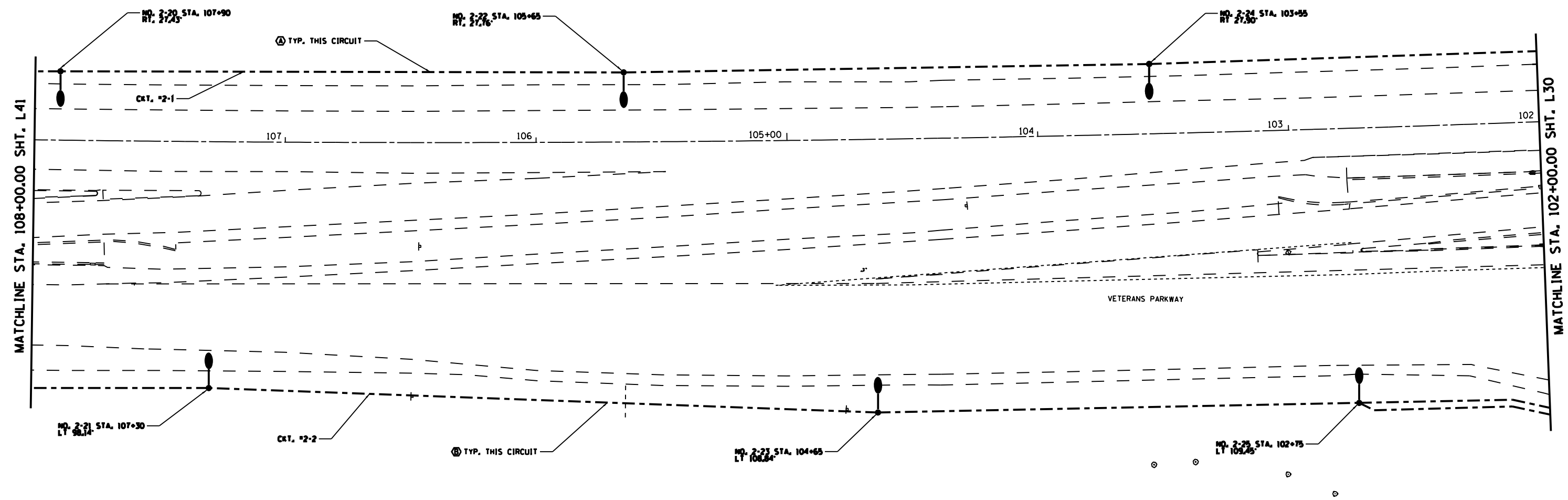
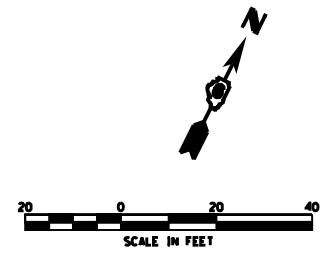
LEGENDS AND NOTES ON SHEET L23

FILE NAME = S:\CONTRMAINT.CAD\72H40 - FAP 658 (IL 29) - Lighting - Sangamon\PLANS\ALL-SHEETS.dgn	USER NAME = sherptd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 29, GRAND AVE. TO S. OF HACKMORE DR. PROPOSED LIGHTING PLAN	F.A.P. RTE. = 658	SECTION (102) L	COUNTY SANGAMON	TOTAL SHEETS 48	SHEET NO. 42
PLOT SCALE = 40.1563' / in.	CHECKED -	REVISED -	SCALE:			STA. TO STA.	CONTRACT NO. 72H40			
PLOT DATE = 5/8/2015	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							



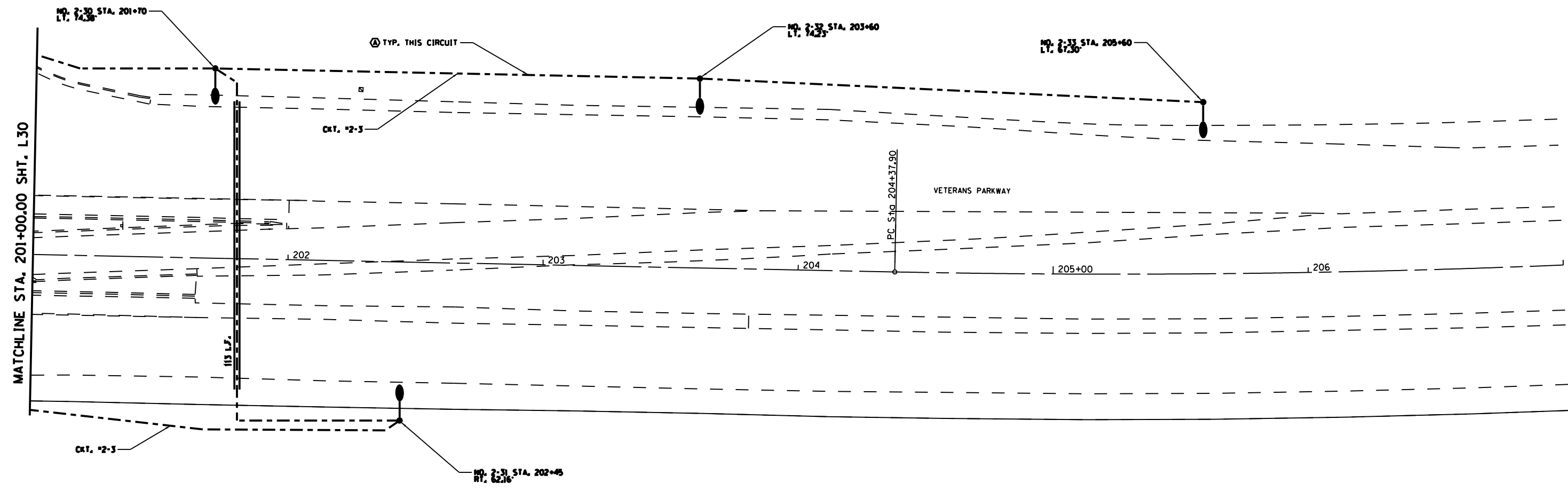
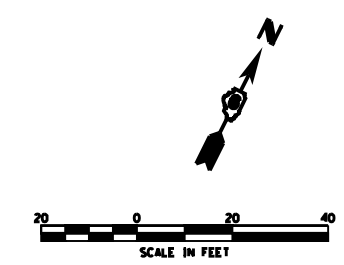
LEGENDS AND NOTES ON SHEET L23

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	PLOT SCALE = 40.1563' / in.	DRAWN -	REVISED -		SCALE:	STA.	TO STA.	CONTRACT NO. 72H40				
	PLOT DATE = 5/8/2015	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									



LEGENDS AND NOTES ON SHEET L23

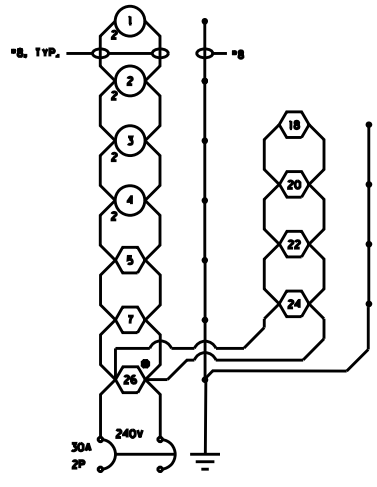
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	PLOT SCALE = 40.1563' / in.	DRAWN -	REVISED -		SCALE:	STA.	TO STA.	CONTRACT NO. 72H40				
	PLOT DATE = 5/8/2015	CHECKED -	REVISED -		ILLINOIS FED. AID PROJECT							
		DATE -	REVISED -									



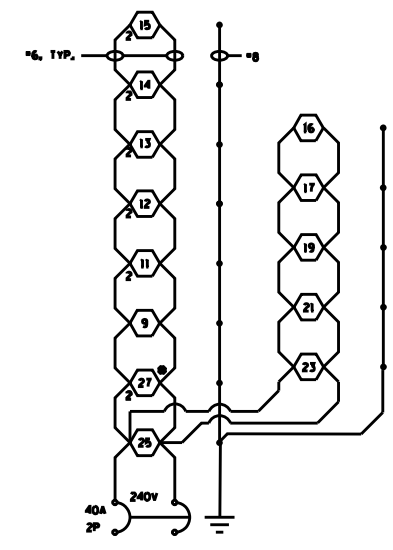
LEGENDS AND NOTES ON SHEET L23

FILE NAME = S:\CONTRMAINT.CAD\72H40 - FAP 658 (IL 2015) - Lighting - Sangamon\PLANS\ALL-SHEETS.dgn	USER NAME = sherptd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 29, GRAND AVE. TO S. OF HACKMORE DR. PROPOSED LIGHTING PLAN	F.A.P. RTE. = 658	SECTION = (102) L	COUNTY = SANGAMON	TOTAL SHEETS = 48	SHEET NO. = 45	
	PLOT SCALE = 40.1563' / in.	CHECKED -	REVISED -			SCALE:	STA. TO STA.	CONTRACT NO. 72H40			
	PLOT DATE = 5/8/2015	DATE -	REVISED -					ILLINOIS FED. AID PROJECT			

CONTROLLER # 2



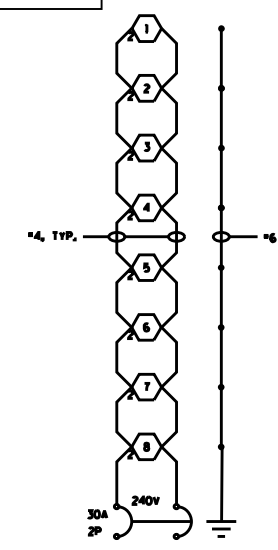
LIGHTING CKT 1



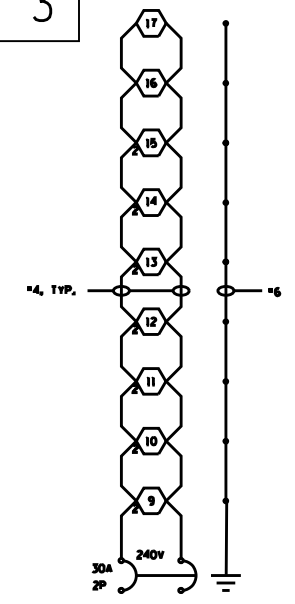
LIGHTING CKT 2

WIRING DIAGRAMS

CONTROLLER # 3

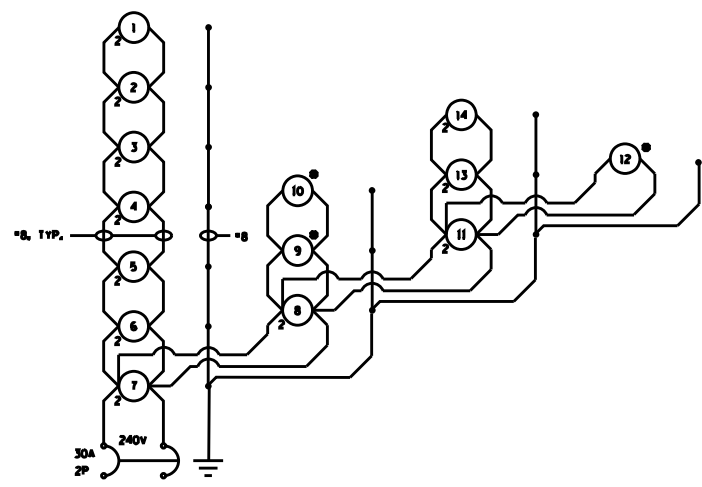


LIGHTING CKT 1

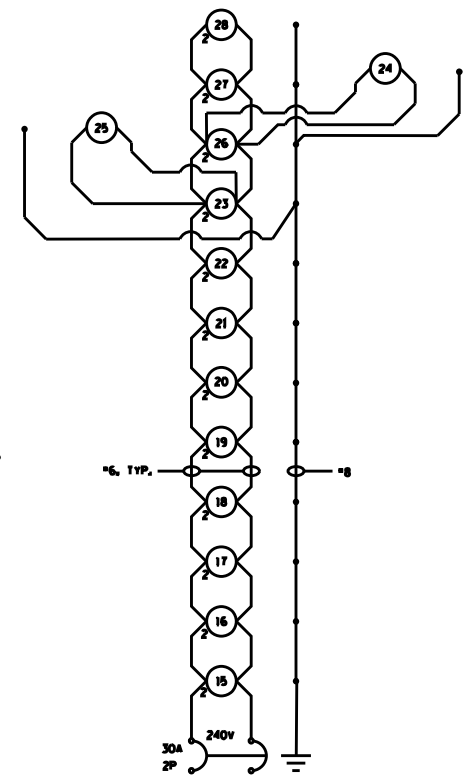


LIGHTING CKT 2

CONTROLLER # 1



LIGHTING CKT 1



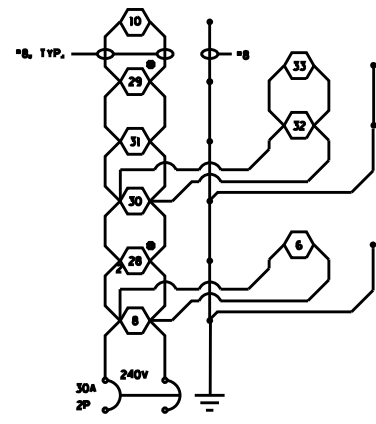
LIGHTING CKT 2

NOTES:

- ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDITIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.

LEGEND

- ⬡ HIGH WATTAGE LED LUMINAIRE
- 2 ⬡ (2) HIGH WATTAGE LED LUMINAIRES
- LOW WATTAGE LED LUMINAIRE
- 2 ○ (2) LOW WATTAGE LED LUMINAIRES
- LUMINAIRE ON COMBINATION TRAFFIC SIGNAL STRUCTURE

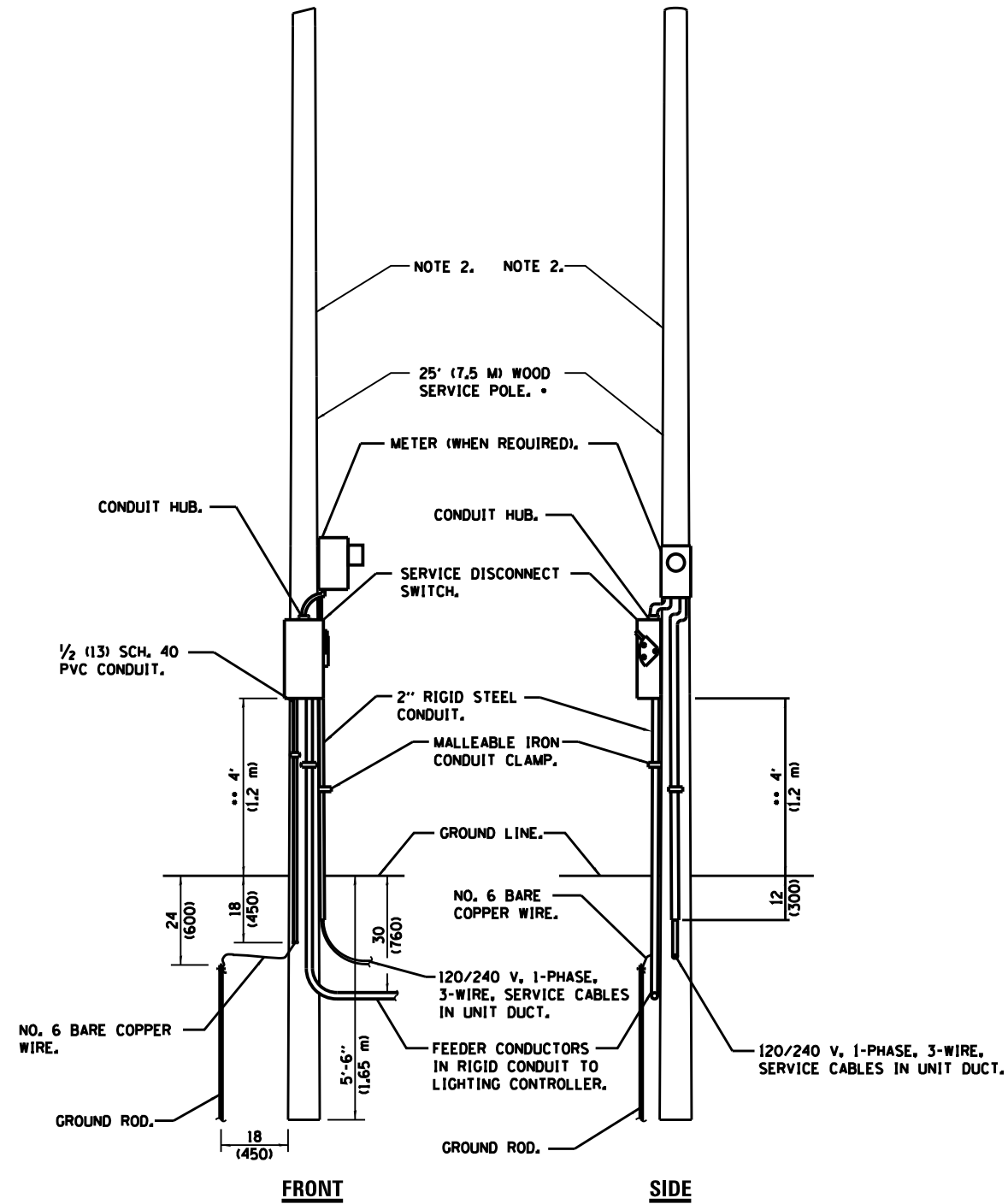


LIGHTING CKT 3

FILE NAME = S:\CONTRMAINT.CAD\72H40 - FAP 658 (IL 2015) - Lighting - Sangamon\PLANS\ALL-SHEETS.dgn	USER NAME = sherptd	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 29, GRAND AVE. TO S. OF HACKMORE DR. WIRING DIAGRAM	F.A.P. RTE. = 658	SECTION = (102) L	COUNTY = SANGAMON	TOTAL SHEETS = 48	SHEET NO. = 46		
PLOT SCALE = 40.1563' / in.	CHECKED -	REVISED -	REVISED -			SCALE: _____	STA. _____	TO STA. _____	CONTRACT NO. 72H40			
PLOT DATE = 5/8/2015	DATE -	REVISED -	REVISED -			ILLINOIS FED. AID PROJECT						

NOTES:

1. SEE HIGHWAY STANDARD 825021-03 FOR LIGHTING CONTROLLER DETAILS AND SCHEMATIC.
2. TOP OF WOOD POLE SHALL BE CUT OFF LEAVING 6" OF CLEARANCE ABOVE METER ENCLOSURE. THE WOOD POLE CUT SHALL BE PRESERVATIVE -TREATED ACCORDING TO APWA STANDARD T1 AND DESIGNED PER STANDARD D6



UNDERGROUND ELECTRIC SERVICE INSTALLATION

- SIZE LARGER AS NEEDED.
- OR AS DIRECTED BY UTILITY COMPANY.

FILE NAME = S:\CONTRMAINT.CAD\72H40 - FAP 658 (IL 20) - Lighting - Sangamon\PLANS\ALL-SHEETS.dgn	USER NAME = sherp1d	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL 29, GRAND AVE. TO S. OF HACKMORE DR. UNDERGROUND ELECTRIC SERVICE INSTALLATION	F.A.P. RTE. = 658	SECTION = (102) L	COUNTY = SANGAMON	TOTAL SHEETS = 48	SHEET NO. = 48
PLOT SCALE = 40.1563 ' / in.	CHECKED -	REVISED -	SCALE:			STA. TO STA.	CONTRACT NO. 72H40			
PLOT DATE = 5/8/2015	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							