

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

ITEP FUNDING
FAP 326 (IL ROUTE 47)
IL ROUTE 126 (SCHOOLHOUSE ROAD)
TO SOMONAUK STREET
SECTION 13-00043-00-LS
PROJECT NUMBER: TE-00D3(087)
LIGHTING
UNITED CITY OF YORKVILLE
KENDALL COUNTY, ILLINOIS
JOB NO. C-93-012-15

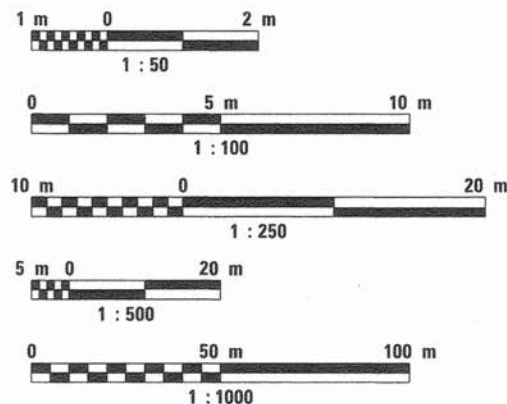
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00043-00-LS	KENDALL	22	1
		ILLINOIS	CONTRACT NO. 87603	

FOR INDEX OF SHEETS, AND LIST OF HIGHWAY STANDARDS SEE SHEET NO. 2

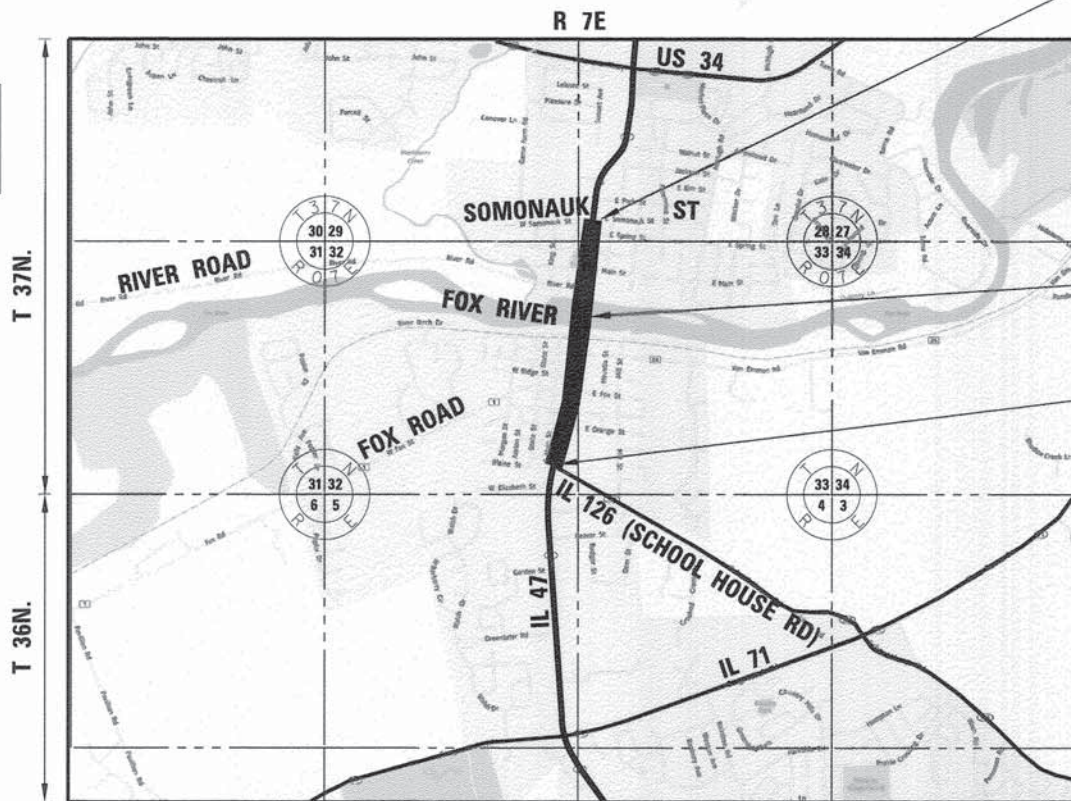
DESIGN DESIGNATION
OTHER PRINCIPAL ARTERIAL
FAP 326 (IL ROUTE 47): CLASS II TRUCK ROUTE

	SOUTH END	DOWNTOWN	NORTH END
POSTED SPEED	35 MPH	30 MPH	35 MPH
DESIGN SPEED	35 MPH	30 MPH	35 MPH
ADT (2011)	18,300 VPD	22,600 VPD	19,500 VPD
TRUCKS	11%	11%	9%

METRIC RATIOS



PROJECT LOCATED IN THE UNITED CITY OF YORKVILLE, ILLINOIS



PROJECT ENDS STA. 21+700 IL ROUTE 47

SN 047-0048 (EX) STA 21+094 189.33m LONG

PROJECT BEGINS STA. 20+050 IL ROUTE 47

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 CALL 811

LOCATION MAP (SCALE: NONE)
SW 1/4 SEC 28, EAST 1/2 SEC. 32, NW 1/4 SEC. 33, T37N, R 7E, BRISTOL TOWNSHIP
TOTAL GROSS AND NET LENGTH OF PROJECT = 1,650 METERS (1.65 KILOMETERS)



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED *[Signature]* 3-24-15
UNITED CITY OF YORKVILLE, MAYOR

PASSED *[Signature]* 4-13-15
DISTRICT 3 LOCAL ROADS & STREETS ENGINEER

RELEASING FOR BID BASED ON LIMITED REVIEW *[Signature]* 4-13-15
DEPUTY DIRECTOR OF HIGHWAYS, REGION 2 ENGINEER

DATE: March 24, 2015

[Signature]
TIMOTHY V. WEIDNER

LICENSE EXPIRES: NOVEMBER 30, 2015

SHEETS: 1-22

SEAL

Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60554
Phone: (630) 466-6700

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INDEX OF SHEETS

SHEET NO.	SHEET DESCRIPTION
1.	COVER SHEET AND LOCATION MAP
2.	GENERAL NOTES, HIGHWAY STANDARDS, AND INDEX OF SHEETS
3.	SUMMARY OF QUANTITIES
4.	PROPOSED WIRING SCHEDULE
5.-14.	ROADWAY LIGHTING PLANS
15.-22.	LIGHTING DETAILS

DOT HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
701101-04	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5M) TO 24" (600 MM) FROM PAVEMENT EDGE
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701801-05	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-04	TRAFFIC CONTROL DEVICES

GENERAL NOTES

SPECIFICATIONS, STANDARDS, AND SPECIAL PROVISIONS

ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," ADOPTED JANUARY 1, 2012 (HEREINAFTER REFERRED TO AS THE STANDARD SPECIFICATIONS), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS," ADOPTED JANUARY 1, 2015, THE LATEST EDITION OF OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE DETAILS IN THE PLANS, AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.

NO SUBSTITUTIONS OR VARIANCES WILL BE PERMITTED TO ANY STANDARD NOTES OR ORDINANCES UNLESS APPROVED OTHERWISE IN WRITING PRIOR TO COMMENCING CONSTRUCTION ACTIVITY.

ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 107.14 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL AT ALL TIMES PROVIDE PROTECTION FOR TRAFFIC AS CALLED FOR IN THE APPLICATION OF TRAFFIC CONTROL DEVICES, THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE PLANS.

UTILITIES

THE CONTRACTOR SHALL COOPERATE WITH THE OWNER IF ANY UTILITY IMPROVEMENTS ARE REQUIRED WITHIN THE DURATION OF THE CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL EXISTING AND PROPOSED UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IS NECESSARY.

THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, FIELD TILES, AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE AND NOT NECESSARILY COMPLETE. THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION EQUAL TO THAT EXISTING BEFORE THE DAMAGE OCCURRED. THIS WORK SHALL BE ARRANGED BY THE UTILITY COMPANY AND SHALL BE AT THE CONTRACTOR'S EXPENSE.

IF EXISTING UTILITY LINES OF ANY NATURE ARE ENCOUNTERED WHICH CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.

UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR OPERATE ANY VALVES AND HYDRANTS.

LIGHTING

ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE FOLLOWING SPECIFICATIONS, WHICH ARE HEREBY MADE A PART HEREOF:

- A. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ILLINOIS DEPARTMENT OF TRANSPORTATION.
- B. THE NATIONAL ELECTRICAL CODE.
- C. LOCAL CODES AND ORDINANCES.

THE CONTRACTOR SHALL SUBMIT SPECIFICATIONS, SHOP DRAWINGS, AND CATALOG CUTS FOR ALL LIGHTING ITEMS TO THE ENGINEER FOR REVIEW BEFORE ORDERING ANY MATERIALS.

ONLY SUBMERSIBLE WATERPROOF TYPE SPLICES OF THE UNIT DUCT AND CIRCUIT CABLES WILL BE ALLOWED IN BELOW GROUND HANDHOLES.

ALL ELECTRICAL EQUIPMENT AND MATERIAL SHALL BE UL LISTED AND LABELED.

THE CONTRACTOR SHALL PERFORM ELECTRICAL TESTING IN THE PRESENCE OF THE ENGINEER. THE ELECTRICAL TESTING SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

THE CONTRACTOR SHALL MAINTAIN THE EXISTING LIGHTING SYSTEM FROM DUSK TO DAWN FOR POWERING THE COMBINATION LIGHTING AT THE SIGNALIZED INTERSECTIONS.

THE TRANSFORMER BASES USED AS PROTECTIVE ENCLOSURES FOR THE EXISTING ELECTRIC CABLES AT THE CONCRETE LIGHT POLE FOUNDATIONS WILL BECOME PROPERTY OF THE CONTRACTOR AFTER REMOVAL.

MISCELLANEOUS

FOR STABILIZATION, ALL TYPE III BARRICADES WILL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

ALL STEEL PRODUCTS NEED TO BE MADE IN THE USA.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

THE CONTRACTOR SHALL BE REQUIRED TO MAKE ARRANGEMENTS FOR THE PROPER BRACING, SHORING, AND OTHER REQUIRED PROTECTION OF ALL ROADWAYS, STRUCTURES, POLES, CABLES AND PIPE LINES, BEFORE CONSTRUCTION BEGINS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE STREETS OR ROADWAYS AND ASSOCIATED STRUCTURES AND SHALL MAKE REPAIRS AS NECESSARY TO THE SATISFACTION OF THE ENGINEER AND CITY AT THEIR OWN EXPENSE. ANY SHEETING AND/OR SHORING USED FOR THIS IMPROVEMENT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT.

THE CONTRACTOR SHALL PROTECT ALL EXISTING FACILITIES (E.G. CURB, PAVEMENT) THAT ARE NOT INDICATED TO BE REMOVED ON THE PLANS. ANY FACILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE RESTORED TO A CONDITION EQUAL TO THAT EXISTING BEFORE THE DAMAGE OCCURRED.

THE CONTRACTOR WILL BE REQUIRED TO COMPLY WITH ALL STATE REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION. THE CONTRACTOR IS PROHIBITED FROM BURNING ANY MATERIAL WITHIN OR ADJACENT TO THE IMPROVEMENT.

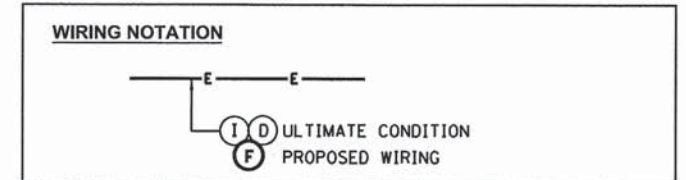
THE ENGINEER AND CITY ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF THEIR WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.

THE CONTRACTOR SHALL COORDINATE THEIR WORK WITH THE WORK PERFORMED UNDER SEPARATE CONTRACT FOR IL ROUTE 47 IMPROVEMENTS CONTRACT NO. 66671.

IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS BEFORE BIDDING ON THIS CONTRACT. CONTRACT PLANS INDICATE EXISTING CONDITIONS ANTICIPATED UPON COMPLETION OF THE IL ROUTE 47 IMPROVEMENTS. AS SHOWN ON THE CONTRACT NO. 66671 PLANS, ALL WORK IS EXPECTED TO BE COMPLETED IN THE SUMMER OF 2015

THESE PLANS SHOW THE ULTIMATE LIGHTING CONDITION, ALTHOUGH SOME WIRING AND LIGHT POLES HAVE BEEN INSTALLED AS PART OF CONTRACT NO. 66671. THE LIGHT POLES TO BE INSTALLED HAVE BEEN INDICATED WITH AN ASTERISK AND CALLOUTS HAVE BEEN ADDED INDICATING WIRING TO BE INSTALLED AS PART OF THIS CONTRACT.

THE CONTROLLERS HAVE BEEN INSTALLED AS A PART OF CONTRACT 66671 AND DETAILS ARE INCLUDED IN THIS PLAN SET FOR REFERENCE. ALL CONNECTIONS AND WORK AT THE CONTROLLER TO MAKE THE FESTOONS AND LIGHTING OPERATIONAL SHALL BE INCLUDED IN THE COST OF THE CONTRACT.



Plot Date: 3/23/2015 1:50:09 PM By: jscmidt



**UNITED CITY OF YORKVILLE
KENDALL COUNTY, ILLINOIS**

DESIGNED -	CMF	REVISED -	
DRAWN -	JPS	REVISED -	
CHECKED -	TVW	REVISED -	
DATE -	07/10/14	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES
HIGHWAY STANDARDS AND INDEX OF SHEETS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00043-00-LS	KENDALL	22	2
				CONTRACT NO. 87603
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

SPECIAL PROVISION SPECIALTY ITEM	CODE NO.	ITEM DESCRIPTION	UNIT	URBAN TOTAL QUANTITY	FEDERAL =	FEDERAL =
					80%	50%
					CITY = 20%	CITY = 50%
					SAFETY	SAFETY
					0031	0031
	67100100	MOBILIZATION	L SUM	1		1
	70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1		1
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1		1
Δ	84200500	REMOVAL OF LIGHTING UNIT, SALVAGE	EACH	6	3	3
	M8170030	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	METER	6,960	6,960	
	M8170040	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 6	METER	1,760	880	880
Δ	XX001164	LUMINAIRE, HIGH PRESSURE SODIUM, SPECIAL	EACH	44	44	
Δ	XX007295	LIGHTING UNIT A, COMPLETE	EACH	38	19	19
Δ	XX007296	LIGHTING UNIT B, COMPLETE	EACH	6	3	3

Δ SEE SPECIAL PROVISIONS
* SPECIALTY ITEMS

Plotted: 3/23/2015 1:55:36 PM By: jschmidt

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CONSULTING ENGINEERS
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**UNITED CITY OF YORKVILLE
KENDALL COUNTY, ILLINOIS**

DESIGNED - CMF
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DATE - 07/10/14

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00043-00-LS	KENDALL	22	3
CONTRACT NO. 87603				
ILLINOIS FED. AID PROJECT				

PROPOSED WIRING SCHEDULE

STRUCTURE ID		LOCATION								NUMBER OF CABLES IN RUN		EXISTING CONDUIT LENGTH **	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C #6	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C #8
TO	FROM	LT/RT	VERT	SLACK	TO	LT/RT	VERT	SLACK	#6	#8	METER	METER	METER	
P1	P2	LT	1.3	1		LT	1.3	1		2	48.7	0	106.6	
P2	P3	LT	1.3	1		LT	1.3	1		3	55.6	0	180.6	
P3	P4	LT	1.3	1		LT	1.3	1		3	65.4	0	210	
P4	P35	LT	1.3	1		LT	1.3	1		3	20.4	0	75	
P35	P5	LT	1.3	1		LT	1.3	1		3	50.7	0	165.9	
P5	P6	LT	1.3	1		LT	1.3	1		3	34.7	0	117.9	
P6	P7	LT	1.3	1		LT	1.3	1		3	57.3	0	185.7	
P7	THH3	LT	1.3	1		LT	0	1		3	74.8	0	234.3	
THH3	THH4	LT	0	1		LT	0	1		3	27	0	87	
THH4	P8	LT	0	1		LT	1.3	1		3	37.4	0	122.1	
P8	LC1	LT	1.3	1		LT	1.3	1		3	17.8	0	67.2	
LC1	P9	LT	1.3	1		LT	1.3	1		3	46	0	151.8	
P9	P10	LT	1.3	1		LT	1.3	1		3	56.2	0	182.4	
P10	THH5	LT	1.3	1		LT	0	1		2	73.9	0	154.4	
THH5	THH6	LT	0	1		LT	0	1	2	2	17.7	39.4	39.4	
THH6	C6	LT	0	1		LT	1.3	1	2		8.3	23.2	0	
THH6	P11	LT	0	1		LT	1.3	1	5	2	77.1	402	160.8	
HH1	P12	LT	0	1		LT	1.3	1	5	2	2.2	27.5	11	
HH2	P14	LT	0	1		LT	1.3	1		3	64	0	201.9	
P14	P15	LT	1.3	1		LT	1.3	1		3	39.7	0	132.9	
P15	P36	LT	1.3	1		LT	1.3	1		3	27.7	0	96.9	
P36	HH3	LT	1.3	1		LT	0	1		3	12.6	0	47.7	
HH3	P16	LT	0	1		LT	1.3	1		3	93.5	0	290.4	
P16	HH4	LT	1.3	1		LT	0	1		2	26.8	0	60.2	
HH4	P17	LT	0	1		LT	1.3	1		2	83.7	0	174	
LC1	HH7	LT	1.3	1		RT	0	1		3	23	0	78.9	
LC1	HH7	LT	1.3	1		RT	0	1		3	23	0	78.9	
HH1	P28	LT	0	1		RT	1.3	1	5	2	22.8	130.5	52.2	
HH2	HH8	LT	0	1		RT	0	1		3	25.7	0	83.1	
P18	P19	RT	1.3	1		RT	1.3	1	2	2	54.7	118.6	118.6	
P19	P20	RT	1.3	1		RT	1.3	1	2	3	53.5	116.2	174.3	
P20	P37	RT	1.3	1		RT	1.3	1	2	3	42.5	94.2	141.3	
P37	P21	RT	1.3	1		RT	1.3	1	2	3	26.5	62.2	93.3	
P21	HH6	RT	1.3	1		RT	0	1	2	3	71.1	148.8	223.2	
HH6	P22	RT	0	1		RT	1.3	1	2	3	31.1	68.8	103.2	
P22	P23	RT	1.3	1		RT	1.3	1	2	3	59.6	128.4	192.6	
P23	THH10	RT	1.3	1		RT	0	1	2	3	31.8	70.2	105.3	
THH10	THH11	RT	0	1		RT	0	1		3	35.3	0	111.9	
THH11	HH7	RT	0	1		RT	0	1		3	52.1	0	162.3	
HH7	P24	RT	0	1		RT	1.3	1		3	19	0	66.9	
P24	P25	RT	1.3	1		RT	1.3	1		3	56.2	0	182.4	
P25	P26	RT	1.3	1		RT	1.3	1		3	58.3	0	188.7	
P26	THH12	RT	1.3	1		RT	0	1		2	38	0	82.6	
THH12	THH13	RT	0	1		RT	0	1	2	2	18.6	41.2	41.2	
THH13	C13	RT	0	1		RT	1.3	1	2		2.5	11.6	0	
THH13	P27	RT	0	1		RT	1.3	1	5	2	50.3	268	107.2	
LC2	HH8	RT	1.3	1		RT	0	1		3	13.4	0	50.1	
LC2	HH8	RT	1.3	1		RT	0	1		3	13.4	0	50.1	
HH8	P29	RT	0	1		RT	1.3	1		3	23.2	0	79.5	
P29	HH9	RT	1.3	1		RT	0	1		3	89.9	0	279.6	
HH9	P38	RT	0	1		RT	1.3	1		3	9.6	0	38.7	
P38	HH9	RT	1.3	1		RT	0	1		3	9.6	0	38.7	
HH9	P30	RT	0	1		RT	1.3	1		3	24.3	0	82.8	
P30	P31	RT	1.3	1		RT	1.3	1		3	39.6	0	132.6	
P31	P32	RT	1.3	1		RT	1.3	1		3	80.5	0	255.3	
P32	P33	RT	1.3	1		RT	1.3	1		3	41.9	0	139.5	
P33	P34	RT	1.3	1		RT	1.3	1		2	76	0	161.2	
TOTAL												1750.8	6952.3	
ROUNDED												1760	6960	

** LENGTH TAKEN FROM CONTRACT NO. 66671 PLANS.

Plot Date: 3/23/2015 3:30:53 PM By: jechmidt



**UNITED CITY OF YORKVILLE
KENDALL COUNTY, ILLINOIS**

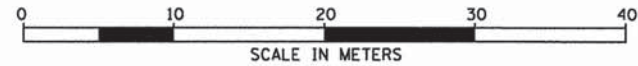
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DRAWN -	JPS	REVISED -	
CHECKED -	TVW	REVISED -	
DATE -	07/10/14	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED WIRING SCHEDULE

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00043-00-LS	KENDALL	22	4
			CONTRACT NO. 87603	
[ILLINOIS] FED. AID PROJECT				



NOTES:

1. LIGHTING WIRING INSTALLED IN TRAFFIC SIGNAL HANDHOLE/CONDUIT WITH SIGNAL CABLES.
2. BOND GROUNDING CONDUCTOR TO ALL HH FRAMES USING A LISTED GROUNDING CONDUCTOR.

CONDUCTOR SCHEDULE

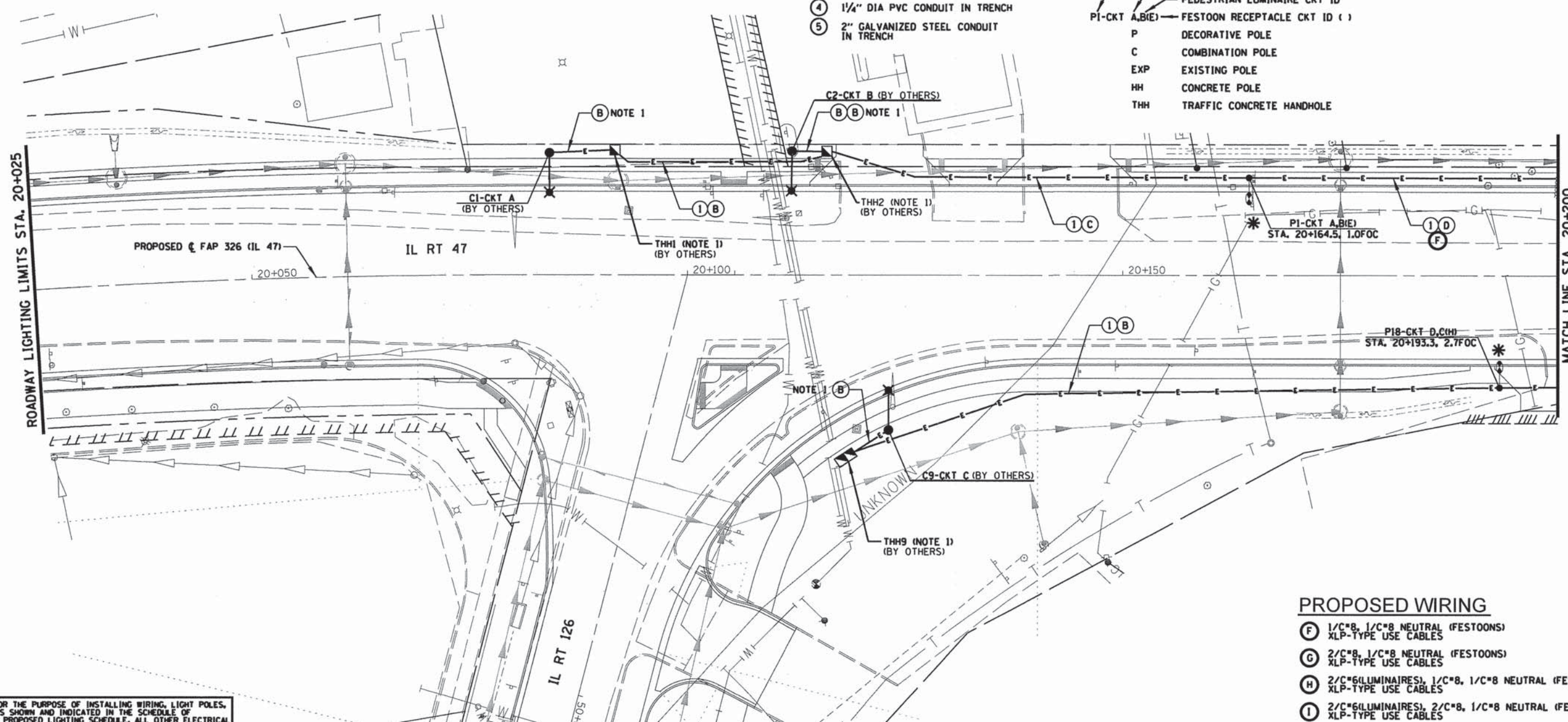
- (A) 2/C #2, 1/C #2 NEUTRAL & 1/C #2 GROUND XLP-TYPE USE SERVICE CABLES
- (B) 2/C #6 & 1/C #6 GROUND XLP-TYPE USE CABLES
- (C) 4/C #6 & 1/C #6 GROUND XLP-TYPE USE CABLES
- (D) 4/C #6 (LUMINAIRES), 1/C #8, 1/C #8 NEUTRAL (FESTOONS) & 1/C #6 GROUND XLP-TYPE USE CABLES
- (E) 4/C #6 (LUMINAIRES), 2/C #8, 1/C #8 NEUTRAL (FESTOONS) & 1/C #6 GROUND XLP-TYPE USE CABLES

CONDUIT SCHEDULE

- (1) 2" DIA. COILABLE NON-METALLIC CONDUIT, IN TRENCH.
- (2) 2" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE
- (3) 2" PVC CONDUIT EMBEDDED IN BRIDGE PARAPET
- (4) 1/4" DIA PVC CONDUIT IN TRENCH
- (5) 2" GALVANIZED STEEL CONDUIT IN TRENCH

LEGEND

- 32' DECORATIVE ROADWAY LIGHT POLE WITH A 250W ROADWAY LUMINAIRE, 50W PEDESTRIAN LUMINAIRE & 120V FESTOON RECEPTACLE ON EXISTING FOUNDATION
 - 40' DECORATIVE ROADWAY LIGHT POLE WITH A 250W ROADWAY LUMINAIRE, 50W PEDESTRIAN LUMINAIRE & 120V FESTOON RECEPTACLE
 - COMBINATION SIGNAL POLE WITH 250W OR 400W ROADWAY LUMINAIRE (BY OTHERS)
 - CONCRETE HANDHOLE (BY OTHERS)
 - JUNCTION BOX ATTACHED TO STRUCTURE (BY OTHERS)
 - CONDUIT (BY OTHERS)
 - CONDUIT IN STEEL CASING (BY OTHERS)
 - EXISTING DECORATIVE ROADWAY LIGHT POLE
 - EXISTING CONDUIT
- POLE NUMBER
 ROADWAY LUMINAIRE CKT ID
 PEDESTRIAN LUMINAIRE CKT ID
 FESTOON RECEPTACLE CKT ID ()
 P DECORATIVE POLE
 C COMBINATION POLE
 EXP EXISTING POLE
 HH CONCRETE POLE
 THH TRAFFIC CONCRETE HANDHOLE



* THIS PLAN IS FOR THE PURPOSE OF INSTALLING WIRING, LIGHT POLES, AND FIXTURES AS SHOWN AND INDICATED IN THE SCHEDULE OF QUANTITIES AND PROPOSED LIGHTING SCHEDULE. ALL OTHER ELECTRICAL WORK SHOWN IS EXISTING AND SHOULD BE VERIFIED BY THE CONTRACTOR IN THE FIELD. CURRENTLY ALL POLE FOUNDATIONS AND ALL CONDUIT WITH A 1/4" DIA PULL STRING ARE CONSTRUCTED. CONTRACT NO. 66671 IS ON-GOING. ALL WORK IS EXPECTED TO BE COMPLETE SUMMER 2015.

PROPOSED WIRING

- (F) 1/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (G) 2/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (H) 2/C#6(LUMINAIRES), 1/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (I) 2/C#6(LUMINAIRES), 2/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (J) 2/C#6(LUMINAIRES), XLP-TYPE USE CABLES
- (K) 4/C#6(LUMINAIRES), 1/C#8, 1/C#8 NEUTRAL (FESTOONS) 1/C#6 GROUND, XLP-TYPE USE CABLES

Plot: Fed: 3/23/2015 4:28:06 PM By: jsochmidt
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Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60554 630.466.6700 / www.eetweb.com	UNITED CITY OF YORKVILLE KENDALL COUNTY, ILLINOIS	DESIGNED - CMF DRAWN - JPS CHECKED - TVW DATE - 07/10/14	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY LIGHTING PLAN FAP 326 (IL. RT. 47)	F.A.P. RTE. 326 SECTION 13-00043-00-LS COUNTY KENDALL TOTAL SHEETS 22 SHEET NO. 5	CONTRACT NO. 87603 (ILLINOIS) FED. AID PROJECT
	SCALE: 1 = 2.5M SHEET NO. 1 OF 10 SHEETS STA. 20+050 TO STA. 20+200						

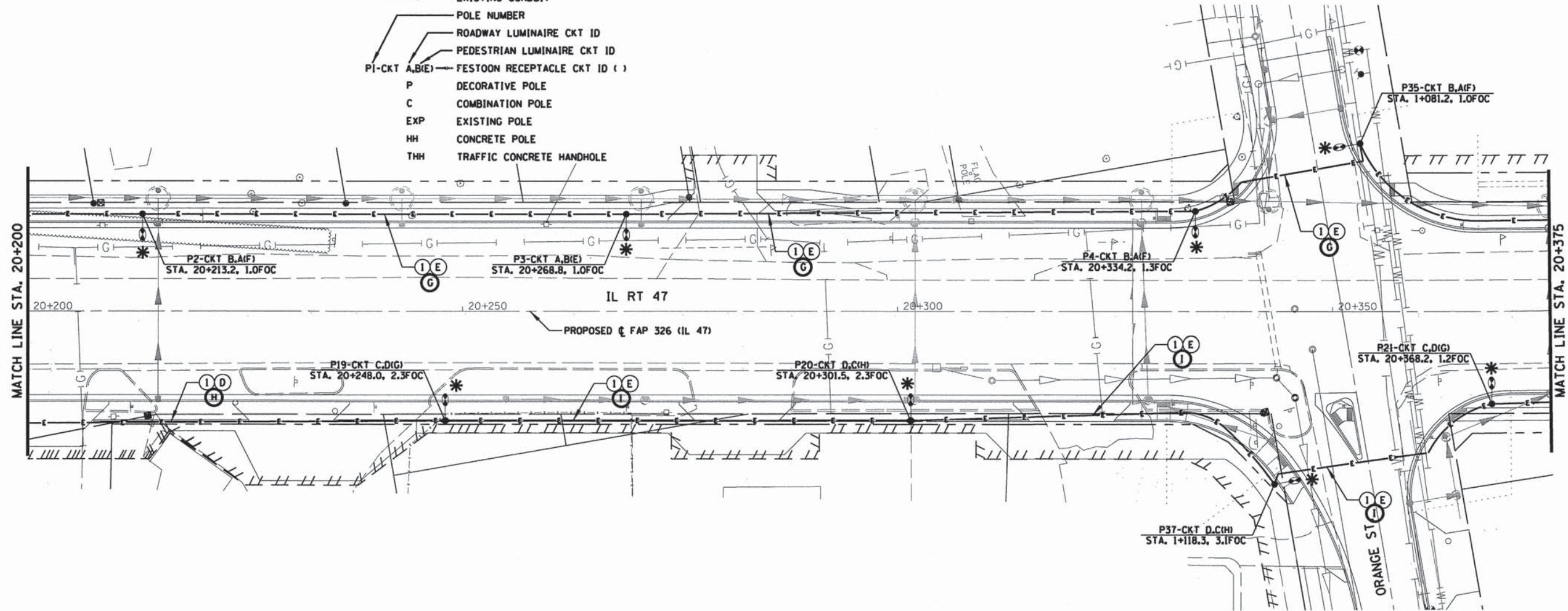


LEGEND

- 32' DECORATIVE ROADWAY LIGHT POLE WITH A 250W ROADWAY LUMINAIRE, 50W PEDESTRIAN LUMINAIRE & 120V FESTOON RECEPTACLE ON EXISTING FOUNDATION
- 40' DECORATIVE ROADWAY LIGHT POLE WITH A 250W ROADWAY LUMINAIRE, 50W PEDESTRIAN LUMINAIRE & 120V FESTOON RECEPTACLE
- COMBINATION SIGNAL POLE WITH 250W OR 400W ROADWAY LUMINAIRE (BY OTHERS)
- CONCRETE HANDHOLE (BY OTHERS)
- JUNCTION BOX ATTACHED TO STRUCTURE (BY OTHERS)
- CONDUIT (BY OTHERS)
- CONDUIT IN STEEL CASING (BY OTHERS)
- EXISTING DECORATIVE ROADWAY LIGHT POLE
- EXISTING CONDUIT
- POLE NUMBER
- ROADWAY LUMINAIRE CKT ID
- PEDESTRIAN LUMINAIRE CKT ID
- PI-CKT A,B(E) FESTOON RECEPTACLE CKT ID ()
- P DECORATIVE POLE
- C COMBINATION POLE
- EXP EXISTING POLE
- HH CONCRETE POLE
- THH TRAFFIC CONCRETE HANDHOLE

NOTES:

1. LIGHTING WIRING INSTALLED IN TRAFFIC SIGNAL HANDHOLE/CONDUIT WITH SIGNAL CABLES.
2. BOND GROUNDING CONDUCTOR TO ALL HH FRAMES USING A LISTED GROUNDING CONDUCTOR.



CONDUIT SCHEDULE

- ① 2" DIA. COILABLE NON-METALLIC CONDUIT, IN TRENCH.
- ② 2" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE
- ③ 2" PVC CONDUIT EMBEDDED IN BRIDGE PARAPET
- ④ 1/4" DIA PVC CONDUIT IN TRENCH
- ⑤ 2" GALVANIZED STEEL CONDUIT IN TRENCH

CONDUCTOR SCHEDULE

- Ⓐ 2/C #2, 1/C #2 NEUTRAL & 1/C #2 GROUND XLP-TYPE USE SERVICE CABLES
- Ⓑ 2/C #6 & 1/C #6 GROUND XLP-TYPE USE CABLES
- Ⓒ 4/C #6 & 1/C #6 GROUND XLP-TYPE USE CABLES
- Ⓓ 4/C #6 (LUMINAIRES), 1/C #8, 1/C #8 NEUTRAL (FESTOONS) & 1/C #6 GROUND XLP-TYPE USE CABLES
- Ⓔ 4/C #6 (LUMINAIRES), 2/C #8, 1/C #8 NEUTRAL (FESTOONS) & 1/C #6 GROUND XLP-TYPE USE CABLES

PROPOSED WIRING

- Ⓕ 1/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- Ⓖ 2/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- Ⓗ 2/C#6(LUMINAIRES), 1/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- Ⓘ 2/C#6(LUMINAIRES), 2/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- Ⓙ 2/C#6(LUMINAIRES), XLP-TYPE USE CABLES
- Ⓚ 4/C#6(LUMINAIRES), 1/C#8, 1/C#8 NEUTRAL (FESTOONS) 1/C#6 GROUND, XLP-TYPE USE CABLES

* THIS PLAN IS FOR THE PURPOSE OF INSTALLING WIRING, LIGHT POLES, AND FIXTURES AS SHOWN AND INDICATED IN THE SCHEDULE OF QUANTITIES AND PROPOSED LIGHTING SCHEDULE. ALL OTHER ELECTRICAL WORK SHOWN IS EXISTING AND SHOULD BE VERIFIED BY THE CONTRACTOR IN THE FIELD. CURRENTLY ALL POLE FOUNDATIONS AND ALL CONDUIT WITH A 1/4" DIA PULL STRING ARE CONSTRUCTED. CONTRACT NO. 66671 IS ON-GOING. ALL WORK IS EXPECTED TO BE COMPLETE SUMMER 2015.

Plotfiled: 3/23/2015 4:31:53 PM By: j.schmidt

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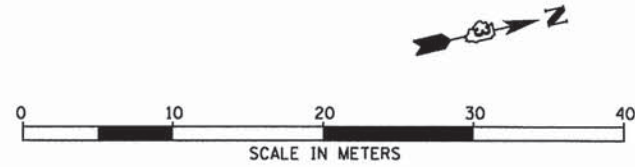
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CHECKED - TVW	REVISED -
DATE - 07/10/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY LIGHTING PLAN
FAP 326 (IL. RT. 47)

SCALE: 1 = 2.5M SHEET NO. 2 OF 10 SHEETS STA. 20+200 TO STA. 20+375

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00043-00-LS	KENDALL	22	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 87603	

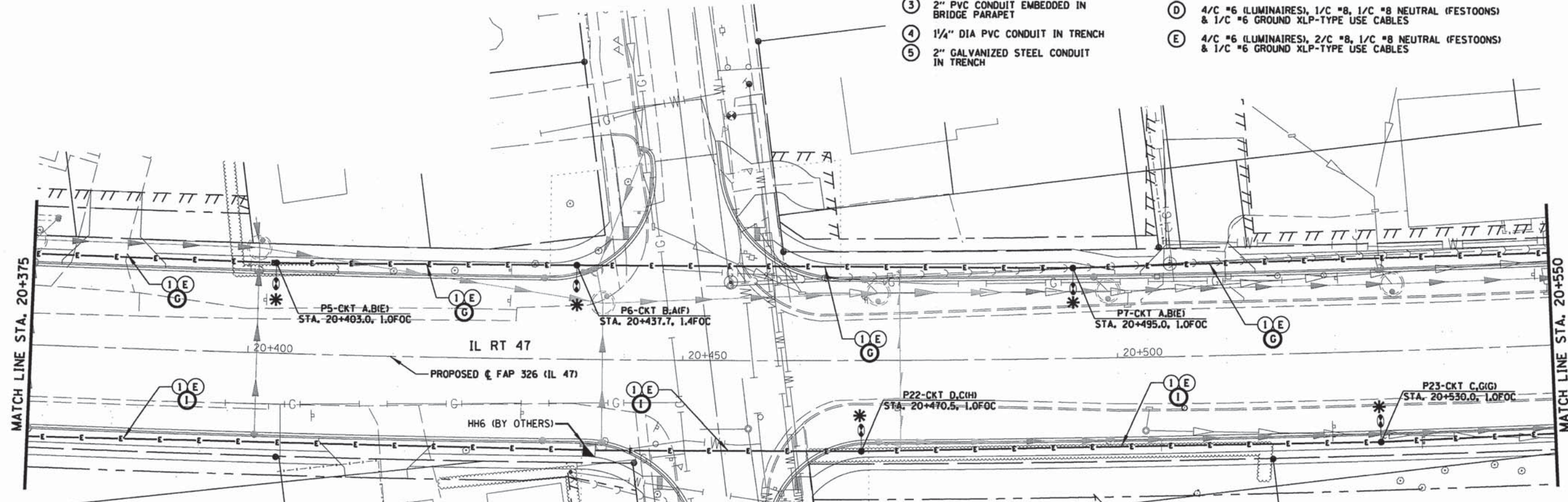


CONDUIT SCHEDULE

- ① 2" DIA. COILABLE NON-METALLIC CONDUIT, IN TRENCH.
- ② 2" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE
- ③ 2" PVC CONDUIT EMBEDDED IN BRIDGE PARAPET
- ④ 1/4" DIA PVC CONDUIT IN TRENCH
- ⑤ 2" GALVANIZED STEEL CONDUIT IN TRENCH

CONDUCTOR SCHEDULE

- Ⓐ 2/C #2, 1/C #2 NEUTRAL & 1/C #2 GROUND XLP-TYPE USE SERVICE CABLES
- Ⓑ 2/C #6 & 1/C #6 GROUND XLP-TYPE USE CABLES
- Ⓒ 4/C #6 & 1/C #6 GROUND XLP-TYPE USE CABLES
- Ⓓ 4/C #6 (LUMINAIRES), 1/C #8, 1/C #8 NEUTRAL (FESTOONS) & 1/C #6 GROUND XLP-TYPE USE CABLES
- Ⓔ 4/C #6 (LUMINAIRES), 2/C #8, 1/C #8 NEUTRAL (FESTOONS) & 1/C #6 GROUND XLP-TYPE USE CABLES



LEGEND

- 32' DECORATIVE ROADWAY LIGHT POLE WITH A 250W ROADWAY LUMINAIRE, 50W PEDESTRIAN LUMINAIRE & 120V FESTOON RECEPTACLE ON EXISTING FOUNDATION
- 40' DECORATIVE ROADWAY LIGHT POLE WITH A 250W ROADWAY LUMINAIRE, 50W PEDESTRIAN LUMINAIRE & 120V FESTOON RECEPTACLE
- COMBINATION SIGNAL POLE WITH 250W OR 400W ROADWAY LUMINAIRE (BY OTHERS)
- CONCRETE HANDHOLE (BY OTHERS)
- JUNCTION BOX ATTACHED TO STRUCTURE (BY OTHERS)
- CONDUIT (BY OTHERS)
- CONDUIT IN STEEL CASING (BY OTHERS)
- EXISTING DECORATIVE ROADWAY LIGHT POLE
- EXISTING CONDUIT
- POLE NUMBER
- ROADWAY LUMINAIRE CKT ID
- PEDESTRIAN LUMINAIRE CKT ID
- FESTOON RECEPTACLE CKT ID ()
- P** DECORATIVE POLE
- C** COMBINATION POLE
- EXP** EXISTING POLE
- HH** CONCRETE POLE
- THH** TRAFFIC CONCRETE HANDHOLE

NOTES:

1. LIGHTING WIRING INSTALLED IN TRAFFIC SIGNAL HANDHOLE/CONDUIT WITH SIGNAL CABLES.
2. BOND GROUNDING CONDUCTOR TO ALL HH FRAMES USING A LISTED GROUNDING CONDUCTOR.

PROPOSED WIRING

- Ⓕ 1/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- Ⓖ 2/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- Ⓗ 2/C#6(LUMINAIRES), 2/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- Ⓘ 2/C#6(LUMINAIRES), 1/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- Ⓙ 2/C#6(LUMINAIRES), XLP-TYPE USE CABLES
- Ⓚ 4/C#6(LUMINAIRES), 1/C#8, 1/C#8 NEUTRAL (FESTOONS) & 1/C#6 GROUND, XLP-TYPE USE CABLES

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 CONTRACT NO. 66671 IS ON-GOING. ALL WORK IS EXPECTED TO BE COMPLETE SUMMER 2015.

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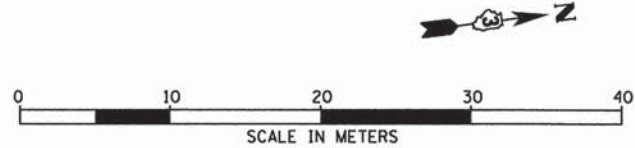
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CHECKED - TVW	REVISED -
DATE - 07/10/14	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROADWAY LIGHTING PLAN
 FAP 326 (IL RT. 47)

SCALE: 1 = 2.5M SHEET NO. 3 OF 10 SHEETS STA. 20+375 TO STA. 20+550

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00043-00-LS	KENDALL	22	7
				CONTRACT NO. 87603
ILLINOIS FED. AID PROJECT				

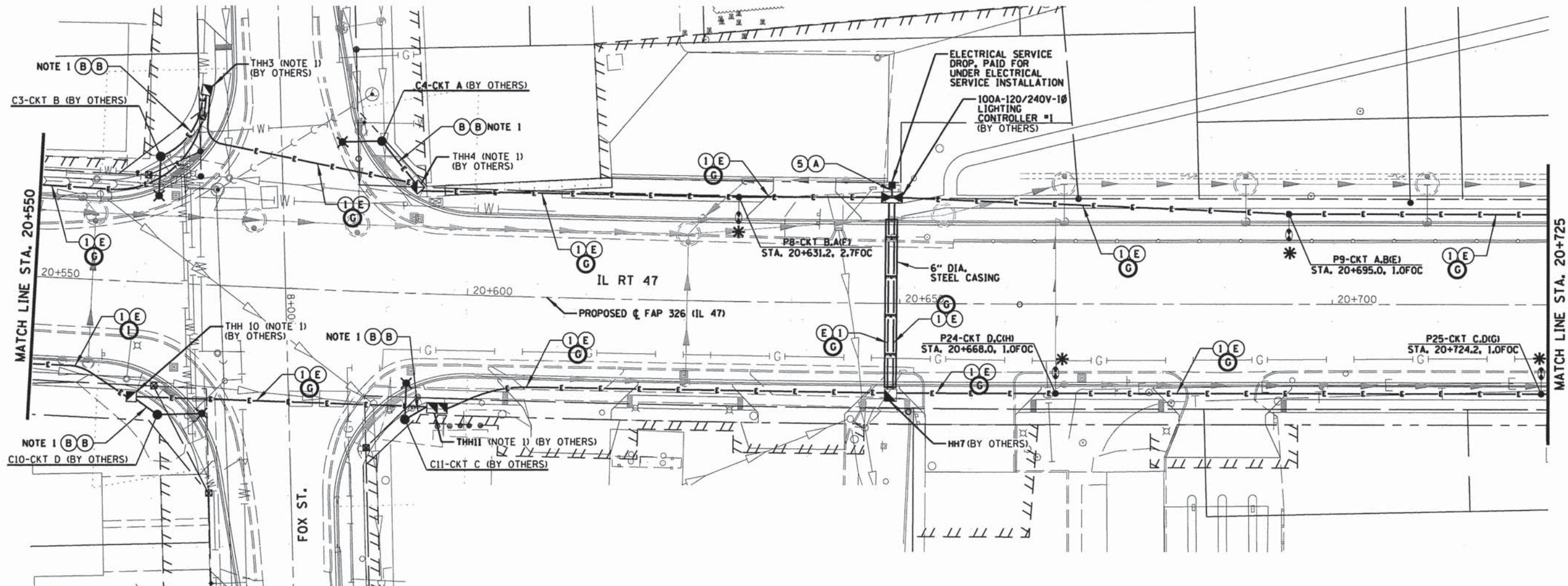


CONDUCTOR SCHEDULE

- (A) 2/C #2, 1/C #2 NEUTRAL & 1/C #2 GROUND XLP-TYPE USE SERVICE CABLES
- (B) 2/C #6 & 1/C #6 GROUND XLP-TYPE USE CABLES
- (C) 4/C #6 & 1/C #6 GROUND XLP-TYPE USE CABLES
- (D) 4/C #6 (LUMINAIRES), 1/C #8, 1/C #8 NEUTRAL (FESTOONS) & 1/C #6 GROUND XLP-TYPE USE CABLES
- (E) 4/C #6 (LUMINAIRES), 2/C #8, 1/C #8 NEUTRAL (FESTOONS) & 1/C #6 GROUND XLP-TYPE USE CABLES

CONDUIT SCHEDULE

- (1) 2" DIA. COILABLE NON-METALLIC CONDUIT, IN TRENCH.
- (2) 2" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE
- (3) 2" PVC CONDUIT EMBEDDED IN BRIDGE PARAPET
- (4) 1/4" DIA PVC CONDUIT IN TRENCH
- (5) 2" GALVANIZED STEEL CONDUIT IN TRENCH



LEGEND

- 32' DECORATIVE ROADWAY LIGHT POLE WITH A 250W ROADWAY LUMINAIRE, 50W PEDESTRIAN LUMINAIRE & 120V FESTOON RECEPTACLE ON EXISTING FOUNDATION
 - 40' DECORATIVE ROADWAY LIGHT POLE WITH A 250W ROADWAY LUMINAIRE, 50W PEDESTRIAN LUMINAIRE & 120V FESTOON RECEPTACLE
 - COMBINATION SIGNAL POLE WITH 250W OR 400W ROADWAY LUMINAIRE (BY OTHERS)
 - CONCRETE HANDHOLE (BY OTHERS)
 - JUNCTION BOX ATTACHED TO STRUCTURE (BY OTHERS)
 - CONDUIT (BY OTHERS)
 - CONDUIT IN STEEL CASING (BY OTHERS)
 - EXISTING DECORATIVE ROADWAY LIGHT POLE
 - EXISTING CONDUIT
- POLE NUMBER
 - ROADWAY LUMINAIRE CKT ID
 - PEDESTRIAN LUMINAIRE CKT ID
 - FESTOON RECEPTACLE CKT ID ()
 - P DECORATIVE POLE
 - C COMBINATION POLE
 - EXP EXISTING POLE
 - HH CONCRETE POLE
 - THH TRAFFIC CONCRETE HANDHOLE

NOTES:

1. LIGHTING WIRING INSTALLED IN TRAFFIC SIGNAL HANDHOLE/CONDUIT WITH SIGNAL CABLES.
2. BOND GROUNDING CONDUCTOR TO ALL HH FRAMES USING A LISTED GROUNDING CONDUCTOR.

PROPOSED WIRING

- (F) 1/C #8, 1/C #8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (G) 2/C #8, 1/C #8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (H) 2/C #6 (LUMINAIRES), 1/C #8, 1/C #8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (I) 2/C #6 (LUMINAIRES), 2/C #8, 1/C #8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (J) 2/C #6 (LUMINAIRES), XLP-TYPE USE CABLES
- (K) 4/C #6 (LUMINAIRES), 1/C #8, 1/C #8 NEUTRAL (FESTOONS) 1/C #6 GROUND, XLP-TYPE USE CABLES

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CONTRACT NO. 66671 IS ON-GOING. ALL WORK IS EXPECTED TO BE COMPLETE SUMMER 2015.

Plot Date: 3/24/2015 11:20:44 AM By: jschmidt

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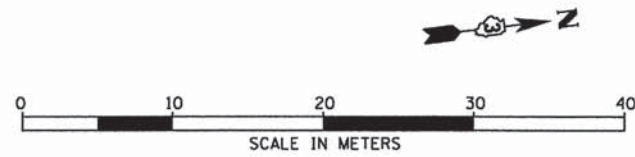
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DATE - 07/10/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY LIGHTING PLAN
FAP 326 (IL RT. 47)

SCALE: 1 = 2.5M SHEET NO. 4 OF 10 SHEETS STA. 20+550 TO STA. 20+725

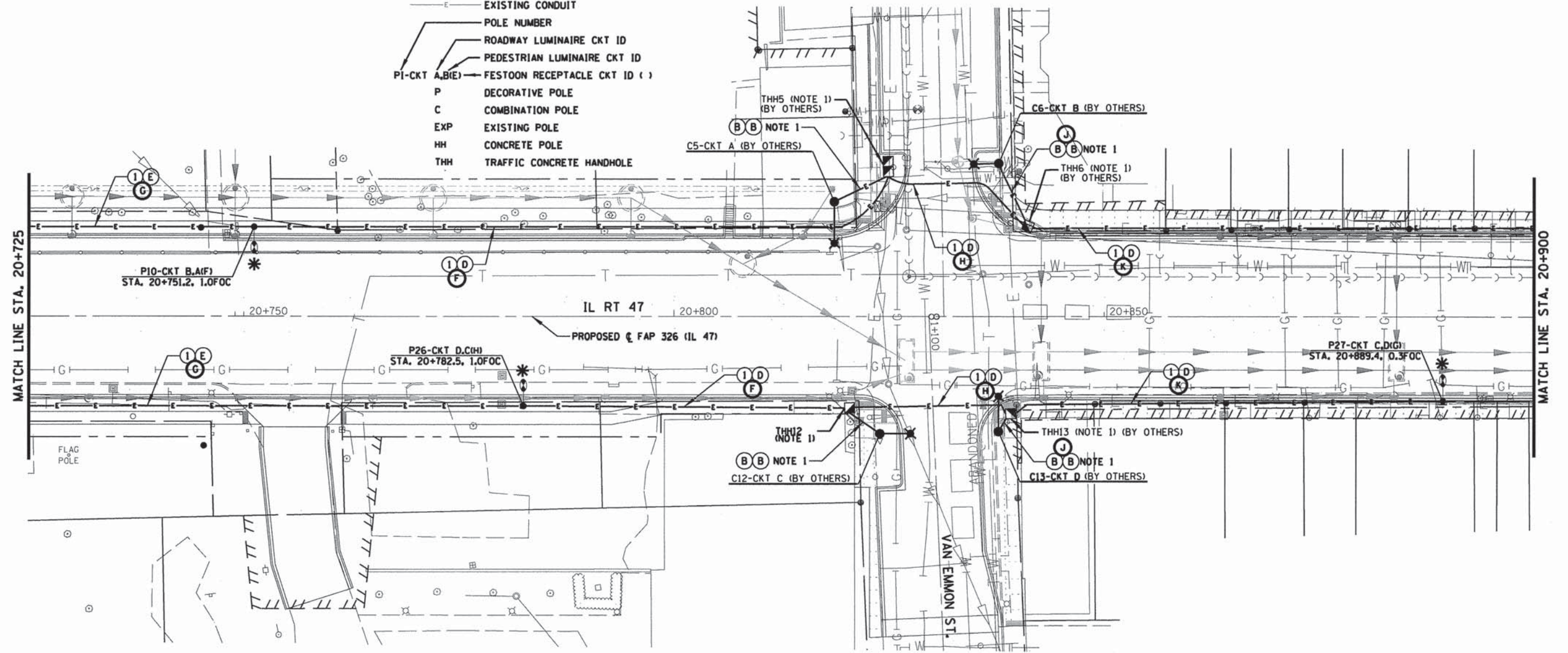
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00043-00-LS	KENDALL	22	8
				CONTRACT NO. 87603
ILLINOIS FED. AID PROJECT				



LEGEND

- 32' DECORATIVE ROADWAY LIGHT POLE WITH A 250W ROADWAY LUMINAIRE, 50W PEDESTRIAN LUMINAIRE & 120V FESTOON RECEPTACLE ON EXISTING FOUNDATION
- 40' DECORATIVE ROADWAY LIGHT POLE WITH A 250W ROADWAY LUMINAIRE, 50W PEDESTRIAN LUMINAIRE & 120V FESTOON RECEPTACLE
- COMBINATION SIGNAL POLE WITH 250W OR 400W ROADWAY LUMINAIRE (BY OTHERS)
- CONCRETE HANDHOLE (BY OTHERS)
- JUNCTION BOX ATTACHED TO STRUCTURE (BY OTHERS)
- CONDUIT (BY OTHERS)
- CONDUIT IN STEEL CASING (BY OTHERS)
- EXISTING DECORATIVE ROADWAY LIGHT POLE
- EXISTING CONDUIT
- POLE NUMBER
- ROADWAY LUMINAIRE CKT ID
- PEDESTRIAN LUMINAIRE CKT ID
- FESTOON RECEPTACLE CKT ID ()
- P DECORATIVE POLE
- C COMBINATION POLE
- EXP EXISTING POLE
- HH CONCRETE POLE
- THH TRAFFIC CONCRETE HANDHOLE

- NOTES:**
- LIGHTING WIRING INSTALLED IN TRAFFIC SIGNAL HANDHOLE/CONDUIT WITH SIGNAL CABLES.
 - BOND GROUNDING CONDUCTOR TO ALL HH FRAMES USING A LISTED GROUNDING CONDUCTOR.



CONDUCTOR SCHEDULE

- (A)** 2/C #2, 1/C #2 NEUTRAL & 1/C #2 GROUND XLP-TYPE USE SERVICE CABLES
- (B)** 2/C #6 & 1/C #6 GROUND XLP-TYPE USE CABLES
- (C)** 4/C #6 & 1/C #6 GROUND XLP-TYPE USE CABLES
- (D)** 4/C #6 (LUMINAIRES), 1/C #8, 1/C #8 NEUTRAL (FESTOONS) & 1/C #6 GROUND XLP-TYPE USE CABLES
- (E)** 4/C #6 (LUMINAIRES), 2/C #8, 1/C #8 NEUTRAL (FESTOONS) & 1/C #6 GROUND XLP-TYPE USE CABLES

CONDUIT SCHEDULE

- (1)** 2" DIA. COILABLE NON-METALLIC CONDUIT, IN TRENCH.
- (2)** 2" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE
- (3)** 2" PVC CONDUIT EMBEDDED IN BRIDGE PARAPET
- (4)** 1/4" DIA PVC CONDUIT IN TRENCH
- (5)** 2" GALVANIZED STEEL CONDUIT IN TRENCH

PROPOSED WIRING

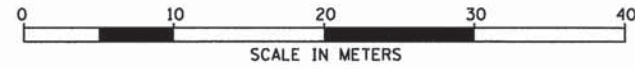
- (F)** 1/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (G)** 2/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (H)** 2/C#6(LUMINAIRES), 1/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (I)** 2/C#6(LUMINAIRES), 2/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (J)** 2/C#6(LUMINAIRES), XLP-TYPE USE CABLES
- (K)** 4/C#6(LUMINAIRES), 1/C#8, 1/C#8 NEUTRAL (FESTOONS) 1/C#6 GROUND, XLP-TYPE USE CABLES

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CONTRACT NO. 66671 IS ON-GOING. ALL WORK IS EXPECTED TO BE COMPLETE SUMMER 2015.

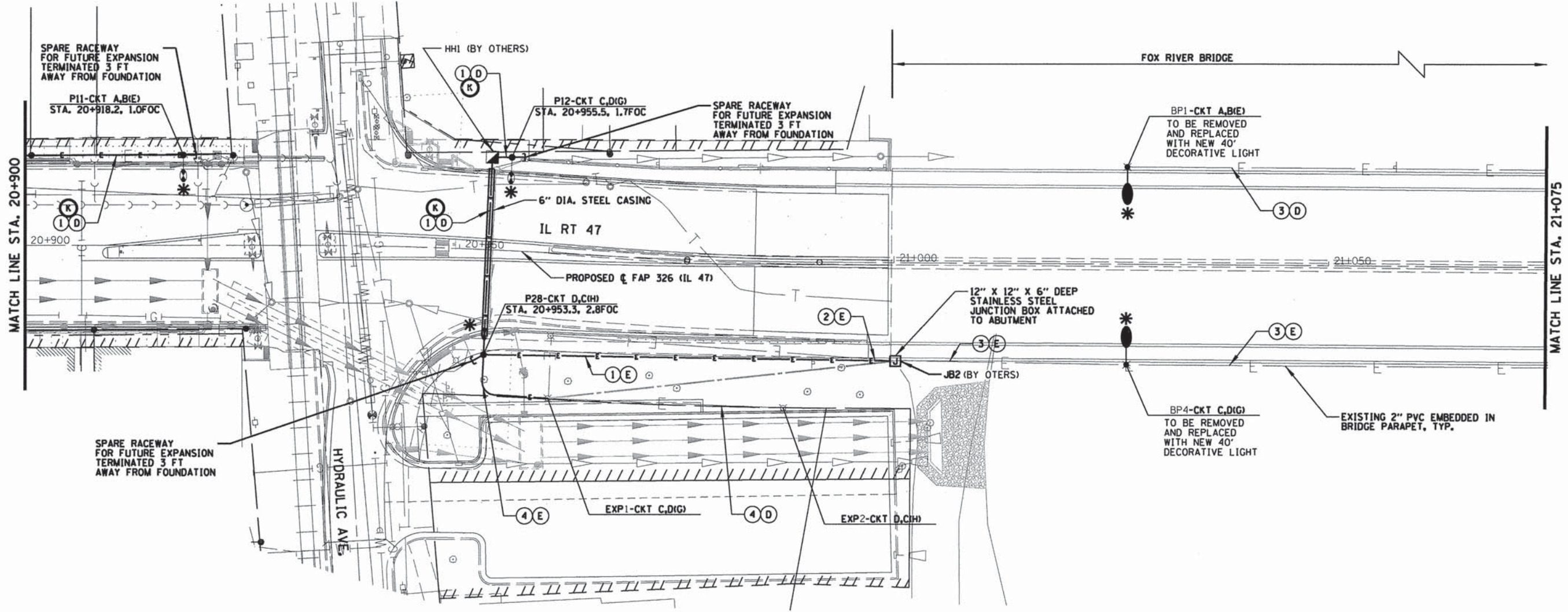
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		UNITED CITY OF YORKVILLE KENDALL COUNTY, ILLINOIS	DRAWN - JPS CHECKED - TVW DATE - 07/10/14		REVISED - REVISED - REVISED -	SCALE: 1 = 2.5M SHEET NO. 5 OF 10 SHEETS STA. 20+725 TO STA. 20+900		CONTRACT NO. 87603 ILLINOIS FED. AID PROJECT			



LEGEND

- 32' DECORATIVE ROADWAY LIGHT POLE WITH A 250W ROADWAY LUMINAIRE, 50W PEDESTRIAN LUMINAIRE & 120V FESTOON RECEPTACLE ON EXISTING FOUNDATION
 - 40' DECORATIVE ROADWAY LIGHT POLE WITH A 250W ROADWAY LUMINAIRE, 50W PEDESTRIAN LUMINAIRE & 120V FESTOON RECEPTACLE
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 - CONCRETE HANDHOLE (BY OTHERS)
 - JUNCTION BOX ATTACHED TO STRUCTURE (BY OTHERS)
 - CONDUIT (BY OTHERS)
 - CONDUIT IN STEEL CASING (BY OTHERS)
 - EXISTING DECORATIVE ROADWAY LIGHT POLE
 - EXISTING CONDUIT
- POLE NUMBER
 ROADWAY LUMINAIRE CKT ID
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 FESTOON RECEPTACLE CKT ID ()
- P DECORATIVE POLE
 - C COMBINATION POLE
 - EXP EXISTING POLE
 - HH CONCRETE POLE
 - THH TRAFFIC CONCRETE HANDHOLE



CONDUCTOR SCHEDULE

- (A) 2/C #2, 1/C #2 NEUTRAL & 1/C #2 GROUND XLP-TYPE USE SERVICE CABLES
- (B) 2/C #6 & 1/C #6 GROUND XLP-TYPE USE CABLES
- (C) 4/C #6 & 1/C #6 GROUND XLP-TYPE USE CABLES
- (D) 4/C #6 (LUMINAIRES), 1/C #8, 1/C #8 NEUTRAL (FESTOONS) & 1/C #6 GROUND XLP-TYPE USE CABLES
- (E) 4/C #6 (LUMINAIRES), 2/C #8, 1/C #8 NEUTRAL (FESTOONS) & 1/C #6 GROUND XLP-TYPE USE CABLES

CONDUIT SCHEDULE

- (1) 2" DIA. COILABLE NON-METALLIC CONDUIT, IN TRENCH
- (2) 2" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE
- (3) 2" PVC CONDUIT EMBEDDED IN BRIDGE PARAPET
- (4) 1/4" DIA PVC CONDUIT IN TRENCH
- (5) 2" GALVANIZED STEEL CONDUIT IN TRENCH

PROPOSED WIRING

- (F) 1/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (G) 2/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (H) 2/C#6(LUMINAIRES), 1/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (I) 2/C#6(LUMINAIRES), 2/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (J) 2/C#6(LUMINAIRES), XLP-TYPE USE CABLES
- (K) 4/C#6(LUMINAIRES), 1/C#8, 1/C#8 NEUTRAL (FESTOONS) 1/C#6 GROUND, XLP-TYPE USE CABLES

- NOTES:**
- LIGHTING WIRING INSTALLED IN TRAFFIC SIGNAL HANDHOLE/CONDUIT WITH SIGNAL CABLES.
 - BOND GROUNDING CONDUCTOR TO ALL HH FRAMES USING A LISTED GROUNDING CONDUCTOR.

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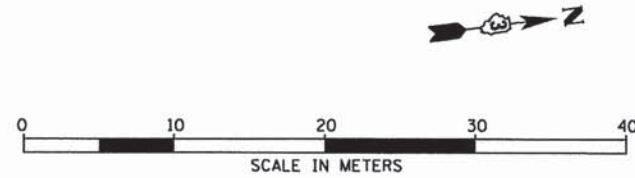
DESIGNED - CMF	REVISED -
DRAWN - JPS	REVISED -
CHECKED - TVW	REVISED -
DATE - 07/10/14	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROADWAY LIGHTING PLAN
 FAP 326 (IL RT. 47)

SCALE: 1 = 2.5M SHEET NO. 6 OF 10 SHEETS STA. 20+900 TO STA. 21+075

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00043-00-LS	KENDALL	22	10
CONTRACT NO. 87603			ILLINOIS FED. AID PROJECT	



CONDUCTOR SCHEDULE

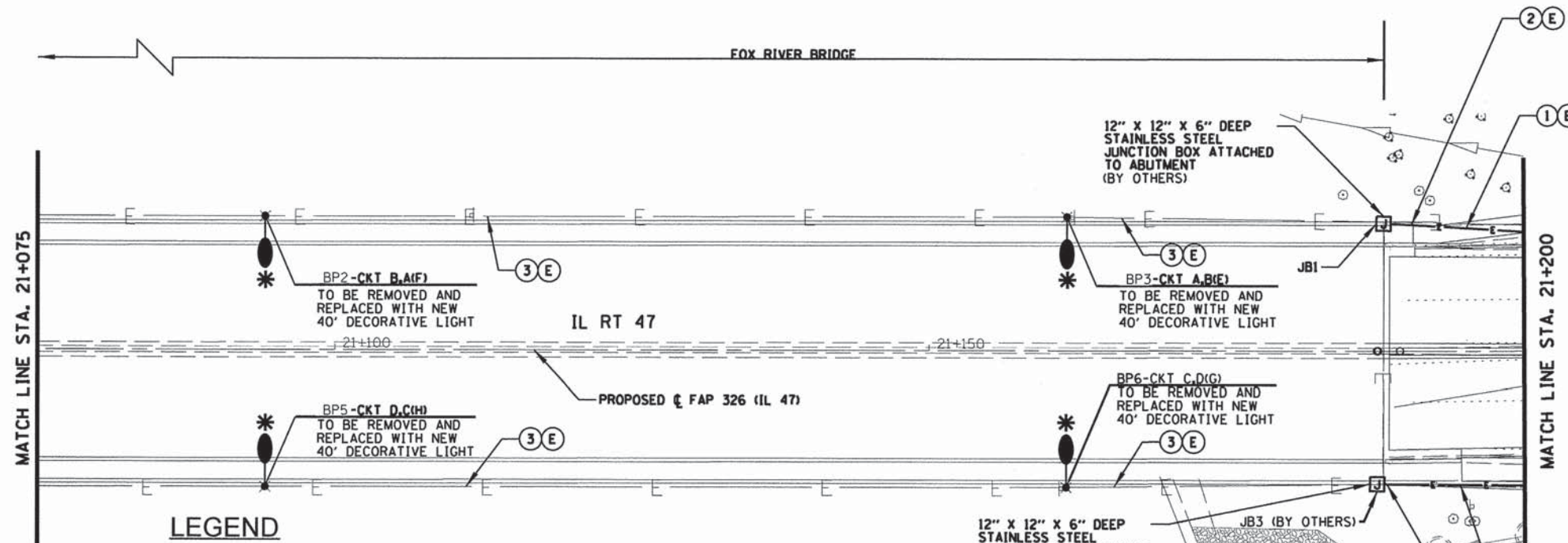
- (A) 2/C #2, 1/C #2 NEUTRAL & 1/C #2 GROUND XLP-TYPE USE SERVICE CABLES
- (B) 2/C #6 & 1/C #6 GROUND XLP-TYPE USE CABLES
- (C) 4/C #6 & 1/C #6 GROUND XLP-TYPE USE CABLES
- (D) 4/C #6 (LUMINAIRES), 1/C #8, 1/C #8 NEUTRAL (FESTOONS) & 1/C #6 GROUND XLP-TYPE USE CABLES
- (E) 4/C #6 (LUMINAIRES), 2/C #8, 1/C #8 NEUTRAL (FESTOONS) & 1/C #6 GROUND XLP-TYPE USE CABLES

CONDUIT SCHEDULE

- (1) 2" DIA. COILABLE NON-METALLIC CONDUIT, IN TRENCH.
- (2) 2" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE
- (3) 2" PVC CONDUIT EMBEDDED IN BRIDGE PARAPET
- (4) 1/4" DIA PVC CONDUIT IN TRENCH
- (5) 2" GALVANIZED STEEL CONDUIT IN TRENCH

PROPOSED WIRING

- (F) 1/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (G) 2/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (H) 2/C#6(LUMINAIRES), 1/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (I) 2/C#6(LUMINAIRES), 2/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (J) 2/C#6(LUMINAIRES), XLP-TYPE USE CABLES
- (K) 4/C#6(LUMINAIRES), 1/C#8, 1/C#8 NEUTRAL (FESTOONS) 1/C#6 GROUND, XLP-TYPE USE CABLES



LEGEND

- 32' DECORATIVE ROADWAY LIGHT POLE WITH A 250W ROADWAY LUMINAIRE, 50W PEDESTRIAN LUMINAIRE & 120V FESTOON RECEPTACLE ON EXISTING FOUNDATION
- 40' DECORATIVE ROADWAY LIGHT POLE WITH A 250W ROADWAY LUMINAIRE, 50W PEDESTRIAN LUMINAIRE & 120V FESTOON RECEPTACLE
- COMBINATION SIGNAL POLE WITH 250W OR 400W ROADWAY LUMINAIRE (BY OTHERS)
- CONCRETE HANDHOLE (BY OTHERS)
- JUNCTION BOX ATTACHED TO STRUCTURE (BY OTHERS)
- CONDUIT (BY OTHERS)
- CONDUIT IN STEEL CASING (BY OTHERS)
- EXISTING DECORATIVE ROADWAY LIGHT POLE
- EXISTING CONDUIT
- POLE NUMBER
- ROADWAY LUMINAIRE CKT ID
- PEDESTRIAN LUMINAIRE CKT ID
- FESTOON RECEPTACLE CKT ID ()
- P DECORATIVE POLE
- C COMBINATION POLE
- EXP EXISTING POLE
- HH CONCRETE POLE
- THH TRAFFIC CONCRETE HANDHOLE

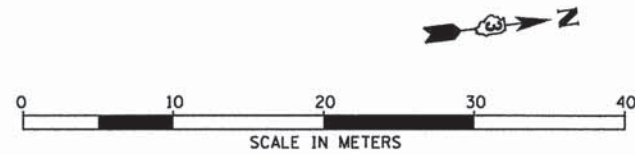
- NOTES:
- LIGHTING WIRING INSTALLED IN TRAFFIC SIGNAL HANDHOLE/CONDUIT WITH SIGNAL CABLES.
 - BOND GROUNDING CONDUCTOR TO ALL HH FRAMES USING A LISTED GROUNDING CONDUCTOR.

* THIS PLAN IS FOR THE PURPOSE OF INSTALLING WIRING, LIGHT POLES, AND FIXTURES AS SHOWN AND INDICATED IN THE SCHEDULE OF QUANTITIES AND PROPOSED LIGHTING SCHEDULE. ALL OTHER ELECTRICAL WORK SHOWN IS EXISTING AND SHOULD BE VERIFIED BY THE CONTRACTOR IN THE FIELD. CURRENTLY ALL POLE FOUNDATIONS AND ALL CONDUIT WITH A 1/4" DIA PULL STRING ARE CONSTRUCTED.

CONTRACT NO. 66671 IS ON-GOING. ALL WORK IS EXPECTED TO BE COMPLETE SUMMER 2015.

Plot Date: 3/23/2015 4:46:32 PM By: jsohndt
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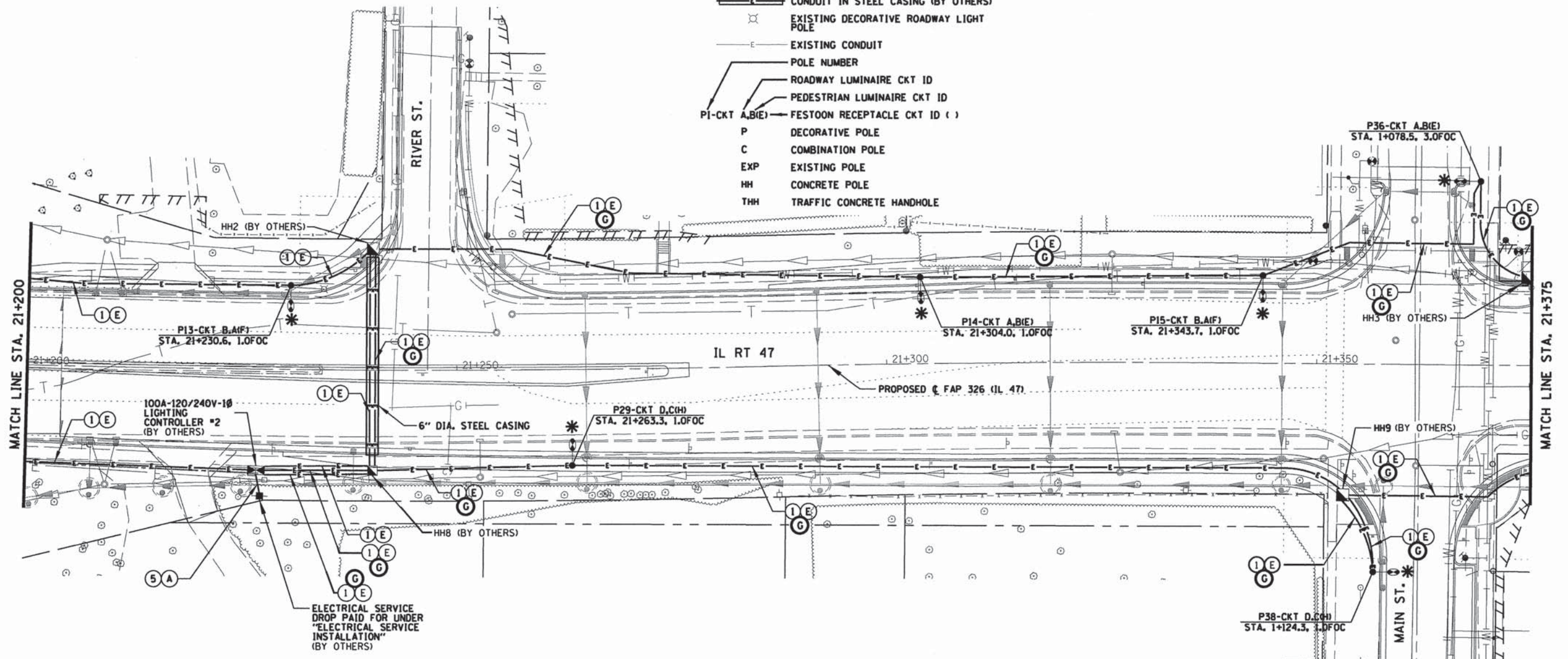
Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60054 630.466.6700 / www.eeiweb.com	UNITED CITY OF YORKVILLE KENDALL COUNTY, ILLINOIS	DESIGNED - CMF DRAWN - JPS CHECKED - TVW DATE - 07/10/14	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY LIGHTING PLAN FAP 326 (IL RT. 47)	F.A.P. RTE. 326	SECTION 13-00043-00-LS	COUNTY KENDALL	TOTAL SHEETS 22	SHEET NO. 11	CONTRACT NO. 87603 ILLINOIS FED. AID PROJECT
	SCALE: 1 = 2.5M SHEET NO. 7 OF 10 SHEETS STA. 21+075 TO STA. 21+200										



LEGEND

- 32' DECORATIVE ROADWAY LIGHT POLE WITH A 250W ROADWAY LUMINAIRE, 50W PEDESTRIAN LUMINAIRE & 120V FESTOON RECEPTACLE ON EXISTING FOUNDATION
- 40' DECORATIVE ROADWAY LIGHT POLE WITH A 250W ROADWAY LUMINAIRE, 50W PEDESTRIAN LUMINAIRE & 120V FESTOON RECEPTACLE
- COMBINATION SIGNAL POLE WITH 250W OR 400W ROADWAY LUMINAIRE (BY OTHERS)
- CONCRETE HANDHOLE (BY OTHERS)
- JUNCTION BOX ATTACHED TO STRUCTURE (BY OTHERS)
- CONDUIT (BY OTHERS)
- CONDUIT IN STEEL CASING (BY OTHERS)
- EXISTING DECORATIVE ROADWAY LIGHT POLE
- EXISTING CONDUIT
- POLE NUMBER
- ROADWAY LUMINAIRE CKT ID
- PEDESTRIAN LUMINAIRE CKT ID
- FESTOON RECEPTACLE CKT ID ()
- P DECORATIVE POLE
- C COMBINATION POLE
- EXP EXISTING POLE
- HH CONCRETE POLE
- THH TRAFFIC CONCRETE HANDHOLE

- NOTES:**
- LIGHTING WIRING INSTALLED IN TRAFFIC SIGNAL HANDHOLE/CONDUIT WITH SIGNAL CABLES.
 - BOND GROUNDING CONDUCTOR TO ALL HH FRAMES USING A LISTED GROUNDING CONDUCTOR.



CONDUCTOR SCHEDULE

- (A) 2/C #2, 1/C #2 NEUTRAL & 1/C #2 GROUND XLP-TYPE USE SERVICE CABLES
- (B) 2/C #6 & 1/C #6 GROUND XLP-TYPE USE CABLES
- (C) 4/C #6 & 1/C #6 GROUND XLP-TYPE USE CABLES
- (D) 4/C #6 (LUMINAIRES), 1/C #8, 1/C #8 NEUTRAL (FESTOONS) & 1/C #6 GROUND XLP-TYPE USE CABLES
- (E) 4/C #6 (LUMINAIRES), 2/C #8, 1/C #8 NEUTRAL (FESTOONS) & 1/C #6 GROUND XLP-TYPE USE CABLES

CONDUIT SCHEDULE

- (1) 2" DIA. COILABLE NON-METALLIC CONDUIT, IN TRENCH.
- (2) 2" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE
- (3) 2" PVC CONDUIT EMBEDDED IN BRIDGE PARAPET
- (4) 1/4" DIA PVC CONDUIT IN TRENCH
- (5) 2" GALVANIZED STEEL CONDUIT IN TRENCH

PROPOSED WIRING

- (F) 1/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (G) 2/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (H) 2/C#6(LUMINAIRES), 1/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (I) 2/C#6(LUMINAIRES), 2/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (J) 2/C#6(LUMINAIRES), XLP-TYPE USE CABLES
- (K) 4/C#6(LUMINAIRES), 1/C#8, 1/C#8 NEUTRAL (FESTOONS) 1/C#6 GROUND, XLP-TYPE USE CABLES

* THIS PLAN IS FOR THE PURPOSE OF INSTALLING WIRING, LIGHT POLES, AND FIXTURES AS SHOWN AND INDICATED IN THE SCHEDULE OF QUANTITIES AND PROPOSED LIGHTING SCHEDULE. ALL OTHER ELECTRICAL WORK SHOWN IS EXISTING AND SHOULD BE VERIFIED BY THE CONTRACTOR IN THE FIELD. CURRENTLY ALL POLE FOUNDATIONS AND ALL CONDUIT WITH A 1/4" DIA PULL STRING ARE CONSTRUCTED.
 CONTRACT NO. 66671 IS ON-GOING. ALL WORK IS EXPECTED TO BE COMPLETE SUMMER 2015.

Plot Date: 3/23/2015 4:48:19 PM By: jochmidt

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 630.466.6700 / www.eeiweb.com

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 KENDALL COUNTY, ILLINOIS

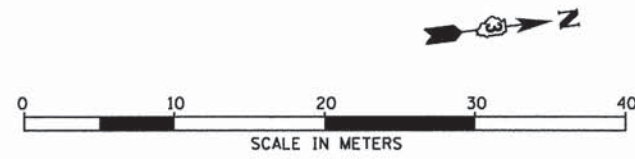
DESIGNED - CMF	REVISED -
DRAWN - JPS	REVISED -
CHECKED - TVW	REVISED -
DATE - 07/10/14	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROADWAY LIGHTING PLAN
 FAP 326 (IL RT. 47)

SCALE: 1 = 2.5M SHEET NO. 8 OF 10 SHEETS STA. 21+200 TO STA. 21+375

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00043-00-LS	KENDALL	22	12
CONTRACT NO. 87603			ILLINOIS FED. AID PROJECT	

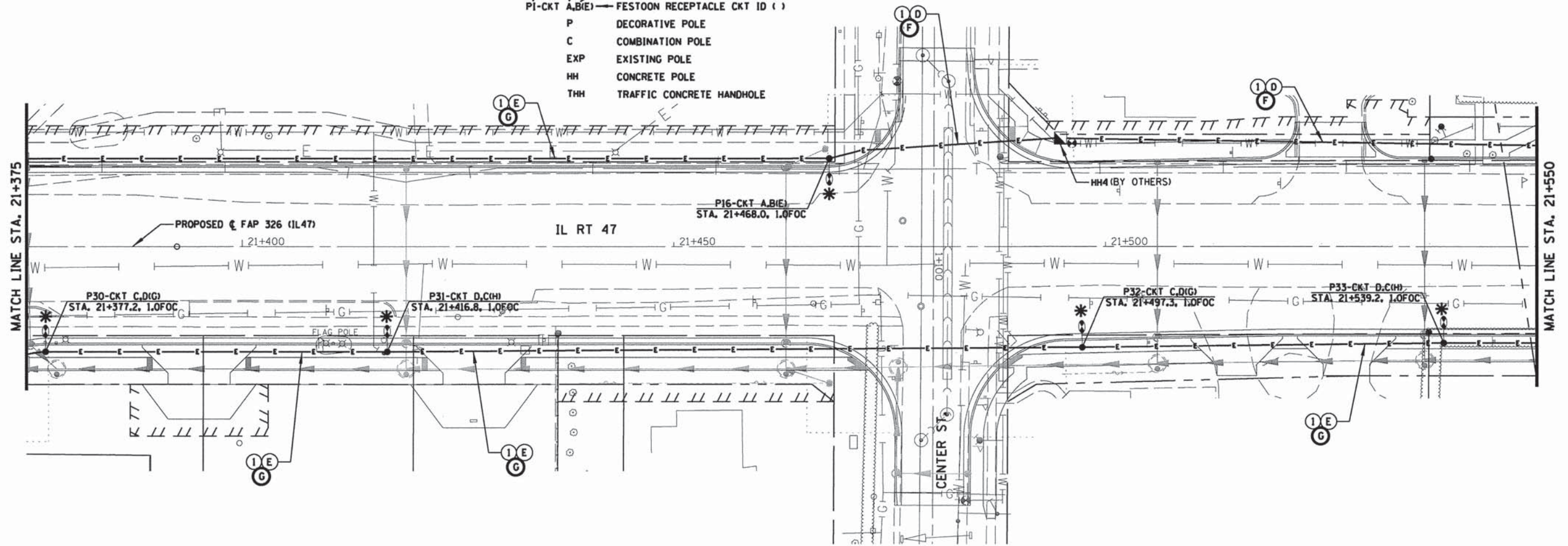


LEGEND

- 32' DECORATIVE ROADWAY LIGHT POLE WITH A 250W ROADWAY LUMINAIRE, 50W PEDESTRIAN LUMINAIRE & 120V FESTOON RECEPTACLE ON EXISTING FOUNDATION
- 40' DECORATIVE ROADWAY LIGHT POLE WITH A 250W ROADWAY LUMINAIRE, 50W PEDESTRIAN LUMINAIRE & 120V FESTOON RECEPTACLE
- COMBINATION SIGNAL POLE WITH 250W OR 400W ROADWAY LUMINAIRE (BY OTHERS)
- CONCRETE HANDHOLE (BY OTHERS)
- JUNCTION BOX ATTACHED TO STRUCTURE (BY OTHERS)
- CONDUIT (BY OTHERS)
- CONDUIT IN STEEL CASING (BY OTHERS)
- EXISTING DECORATIVE ROADWAY LIGHT POLE
- EXISTING CONDUIT
- POLE NUMBER
- ROADWAY LUMINAIRE CKT ID
- PEDESTRIAN LUMINAIRE CKT ID
- FESTOON RECEPTACLE CKT ID ()
- P** DECORATIVE POLE
- C** COMBINATION POLE
- EXP** EXISTING POLE
- HH** CONCRETE POLE
- THH** TRAFFIC CONCRETE HANDHOLE

NOTES:

1. LIGHTING WIRING INSTALLED IN TRAFFIC SIGNAL HANDHOLE/CONDUIT WITH SIGNAL CABLES.
2. BOND GROUNDING CONDUCTOR TO ALL HH FRAMES USING A LISTED GROUNDING CONDUCTOR.



CONDUCTOR SCHEDULE

- (A)** 2/C #2, 1/C #2 NEUTRAL & 1/C #2 GROUND XLP-TYPE USE SERVICE CABLES
- (B)** 2/C #6 & 1/C #6 GROUND XLP-TYPE USE CABLES
- (C)** 4/C #6 & 1/C #6 GROUND XLP-TYPE USE CABLES
- (D)** 4/C #6 (LUMINAIRES), 1/C #8, 1/C #8 NEUTRAL (FESTOONS) & 1/C #6 GROUND XLP-TYPE USE CABLES
- (E)** 4/C #6 (LUMINAIRES), 2/C #8, 1/C #8 NEUTRAL (FESTOONS) & 1/C #6 GROUND XLP-TYPE USE CABLES

CONDUIT SCHEDULE

- (1)** 2" DIA. COILABLE NON-METALLIC CONDUIT, IN TRENCH
- (2)** 2" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE
- (3)** 2" PVC CONDUIT EMBEDDED IN BRIDGE PARAPET
- (4)** 1/4" DIA PVC CONDUIT IN TRENCH
- (5)** 2" GALVANIZED STEEL CONDUIT IN TRENCH

PROPOSED WIRING

- (F)** 1/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (G)** 2/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (H)** 2/C#6(LUMINAIRES), 1/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (I)** 2/C#6(LUMINAIRES), 2/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (J)** 2/C#6(LUMINAIRES), XLP-TYPE USE CABLES
- (K)** 4/C#6(LUMINAIRES), 1/C#8, 1/C#8 NEUTRAL (FESTOONS) 1/C#6 GROUND, XLP-TYPE USE CABLES

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CONTRACT NO. 66671 IS ON-GOING. ALL WORK IS EXPECTED TO BE COMPLETE SUMMER 2015.

Plot Date: 3/23/2015 4:51:02 PM By: jschmidt



UNITED CITY OF YORKVILLE
KENDALL COUNTY, ILLINOIS

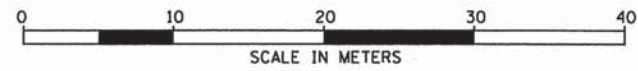
DESIGNED -	CMF	REVISED -	
DRAWN -	JPS	REVISED -	
CHECKED -	TVW	REVISED -	
DATE -	07/10/14	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY LIGHTING PLAN
FAP 326 (IL RT. 47)

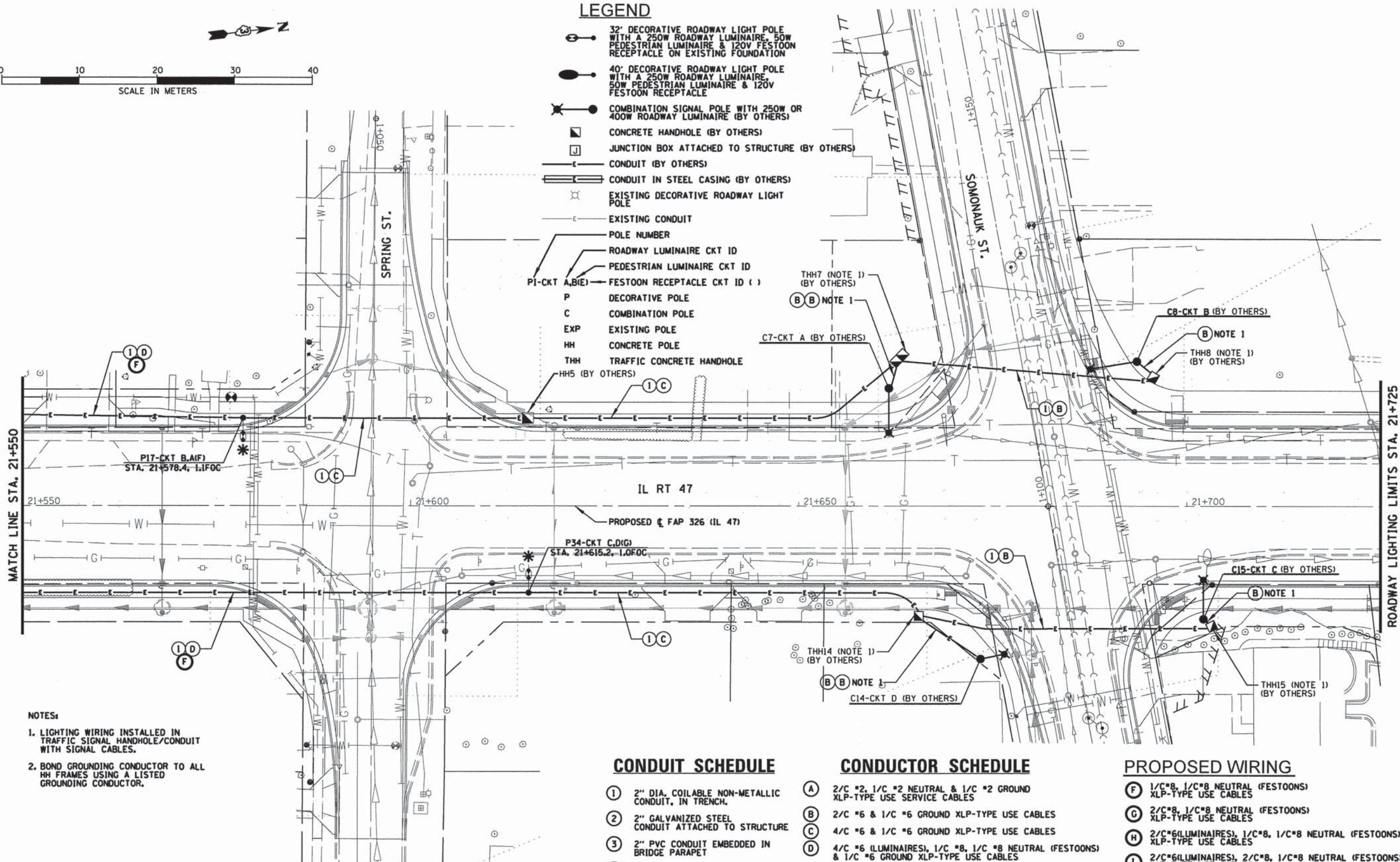
SCALE: 1 = 2.5M SHEET NO. 9 OF 10 SHEETS STA. 21+375 TO STA. 21+550

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00043-00-LS	KENDALL	22	13
			CONTRACT NO. 87603	
[ILLINOIS] FED. AID PROJECT				



LEGEND

- 32' DECORATIVE ROADWAY LIGHT POLE WITH A 250W ROADWAY LUMINAIRE, 50W PEDESTRIAN LUMINAIRE & 120V FESTOON RECEPTACLE ON EXISTING FOUNDATION
- 40' DECORATIVE ROADWAY LIGHT POLE WITH A 250W ROADWAY LUMINAIRE, 50W PEDESTRIAN LUMINAIRE & 120V FESTOON RECEPTACLE
- COMBINATION SIGNAL POLE WITH 250W OR 400W ROADWAY LUMINAIRE (BY OTHERS)
- CONCRETE HANDHOLE (BY OTHERS)
- JUNCTION BOX ATTACHED TO STRUCTURE (BY OTHERS)
- CONDUIT (BY OTHERS)
- CONDUIT IN STEEL CASING (BY OTHERS)
- EXISTING DECORATIVE ROADWAY LIGHT POLE
- EXISTING CONDUIT
- POLE NUMBER
- ROADWAY LUMINAIRE CKT ID
- PEDESTRIAN LUMINAIRE CKT ID
- FESTOON RECEPTACLE CKT ID ()
- P DECORATIVE POLE
- C COMBINATION POLE
- EXP EXISTING POLE
- HH CONCRETE POLE
- THH TRAFFIC CONCRETE HANDHOLE
- HH5 (BY OTHERS)



NOTES:

1. LIGHTING WIRING INSTALLED IN TRAFFIC SIGNAL HANDHOLE/CONDUIT WITH SIGNAL CABLES.
2. BOND GROUNDING CONDUCTOR TO ALL HH FRAMES USING A LISTED GROUNDING CONDUCTOR.

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CONTRACT NO. 66671 IS ON-GOING. ALL WORK IS EXPECTED TO BE COMPLETE SUMMER 2015.

CONDUIT SCHEDULE

- ① 2" DIA. COILABLE NON-METALLIC CONDUIT, IN TRENCH.
- ② 2" GALVANIZED STEEL CONDUIT ATTACHED TO STRUCTURE
- ③ 2" PVC CONDUIT EMBEDDED IN BRIDGE PARAPET
- ④ 1/4" DIA PVC CONDUIT IN TRENCH
- ⑤ 2" GALVANIZED STEEL CONDUIT IN TRENCH

CONDUCTOR SCHEDULE

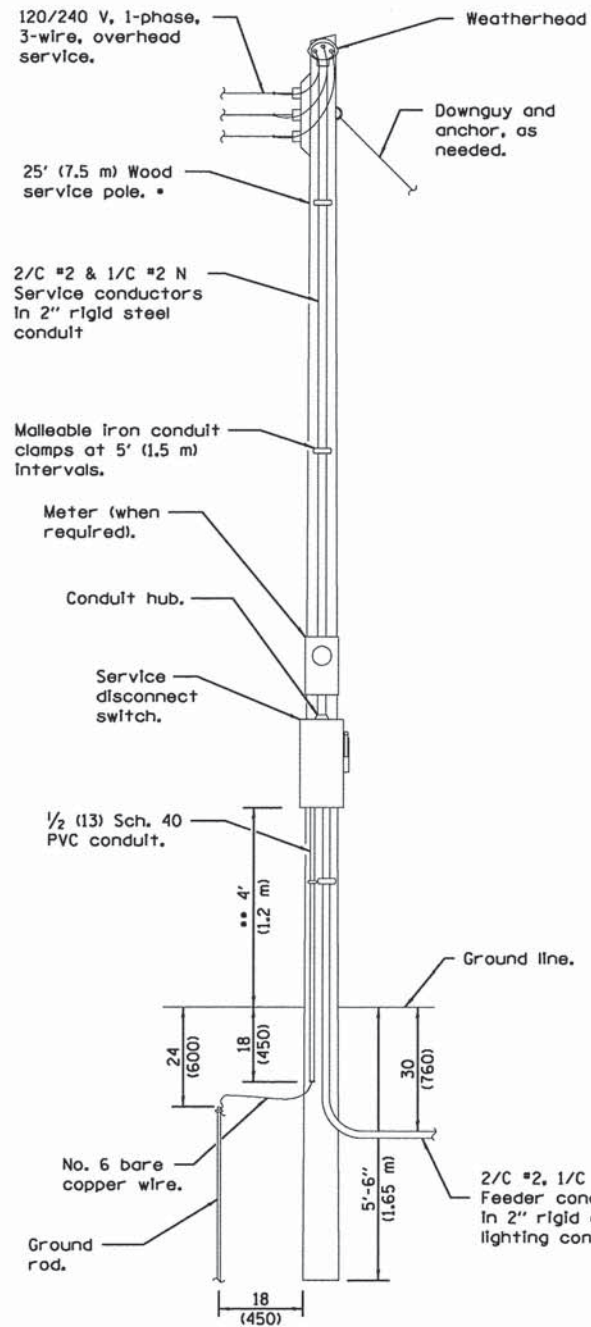
- (A) 2/C #2, 1/C #2 NEUTRAL & 1/C #2 GROUND XLP-TYPE USE SERVICE CABLES
- (B) 2/C #6 & 1/C #6 GROUND XLP-TYPE USE CABLES
- (C) 4/C #6 & 1/C #6 GROUND XLP-TYPE USE CABLES
- (D) 4/C #6 (LUMINAIRES), 1/C #8, 1/C #8 NEUTRAL (FESTOONS) & 1/C #6 GROUND XLP-TYPE USE CABLES
- (E) 4/C #6 (LUMINAIRES), 2/C #8, 1/C #8 NEUTRAL (FESTOONS) & 1/C #6 GROUND XLP-TYPE USE CABLES

PROPOSED WIRING

- (F) 1/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (G) 2/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (H) 2/C#6(LUMINAIRES), 1/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (I) 2/C#6(LUMINAIRES), 2/C#8, 1/C#8 NEUTRAL (FESTOONS) XLP-TYPE USE CABLES
- (J) 2/C#6(LUMINAIRES), XLP-TYPE USE CABLES
- (K) 4/C#6(LUMINAIRES), 1/C#8, 1/C#8 NEUTRAL (FESTOONS) & 1/C#6 GROUND, XLP-TYPE USE CABLES

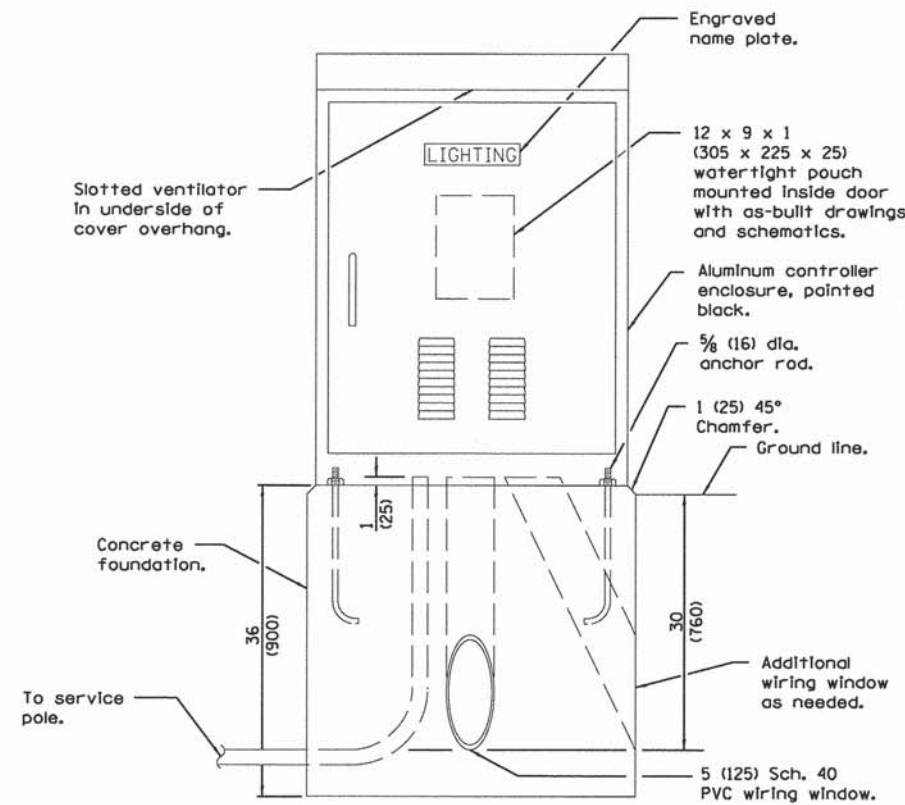
Plotted: 3/23/2015 4:52:44 PM By: jechmidt

<p>Engineering Enterprises, Inc. CONSULTING ENGINEERS 52 Wheeler Road Sugar Grove, Illinois 60954 630.466.6700 / www.eeiweb.com</p>	<p>UNITED CITY OF YORKVILLE KENDALL COUNTY, ILLINOIS</p>	DESIGNED - CMF	REVISED -	<p>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</p>	<p>ROADWAY LIGHTING PLAN FAP 326 (IL RT. 47)</p>			F.A.P. RTE. 326	SECTION 13-00043-00-LS	COUNTY KENDALL	TOTAL SHEETS 22	SHEET NO. 14
		DRAWN - JPS	REVISED -		<p>SCALE: 1 = 2.5M SHEET NO. 10 OF 10 SHEETS STA. 21+550 TO STA. 21+725</p>			<p>CONTRACT NO. 87603</p>				
		CHECKED - TVW	REVISED -					<p>ILLINOIS FED. AID PROJECT</p>				
		DATE - 07/10/14	REVISED -									

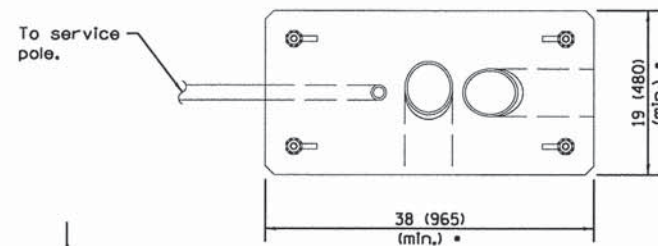


ELECTRIC SERVICE INSTALLATION

- Size larger as needed.
- Or as directed by Utility Company.

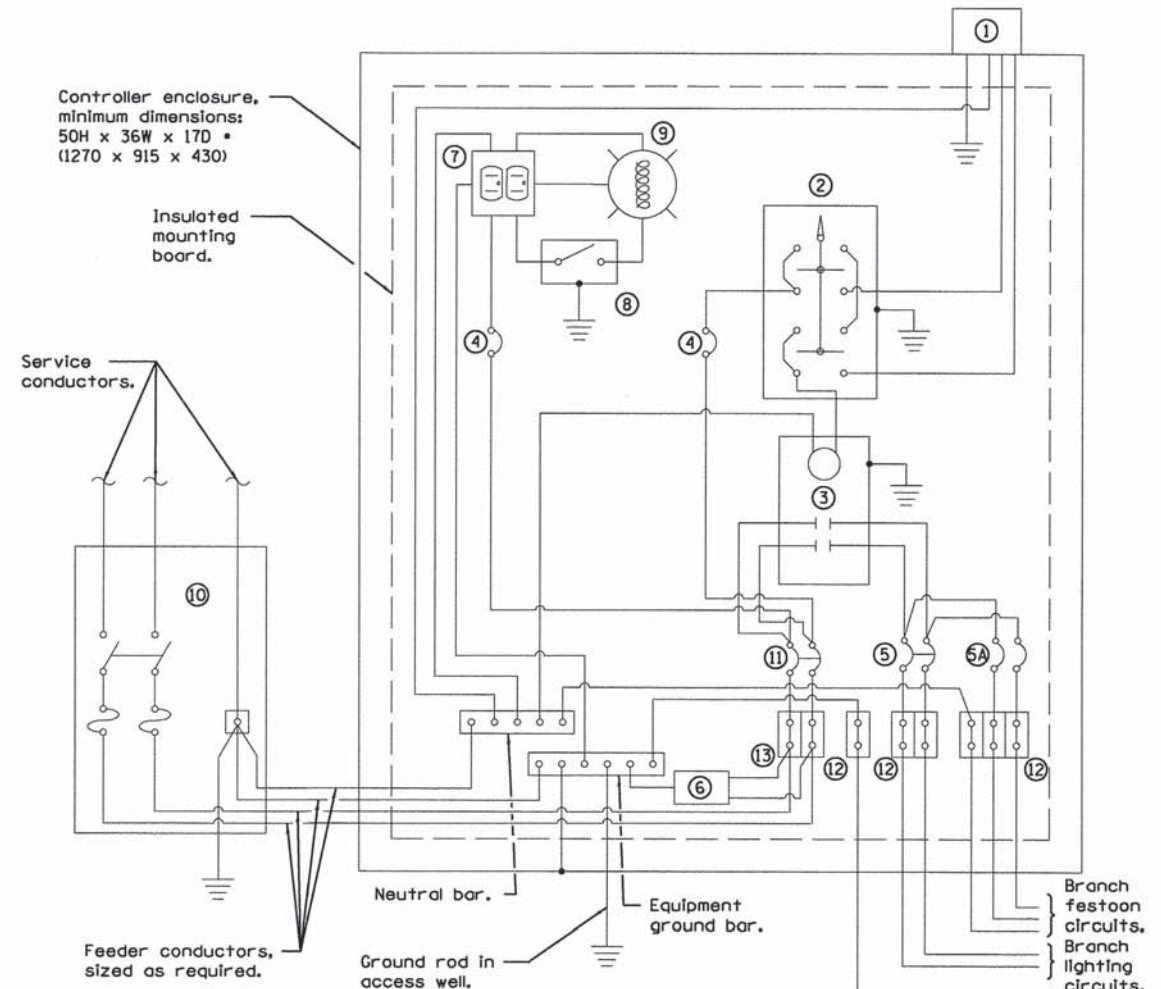


LIGHTING CONTROLLER



FOUNDATION (PLAN)
(Work pad not shown.)

ANCHOR ROD DETAIL



CONTROL SCHEMATIC

- ① Photocell with integral surge arrester.
- ② HAND-OFF-AUTO selector switch.
- ③ 100 amp, electrically held contactor.
- ④ 15 amp, 1-pole circuit breaker.
- ⑤ Roadway Lighting Breaker 20 amp, 2-pole circuit breaker (Five required, only one shown).
- ⑤A Festoon Receptacle Breaker 20 amp, 1-pole circuit breaker (Six required, only one shown).
- ⑥ Surge arrester.
- ⑦ GFCI duplex receptacle.
- ⑧ Single-pole, single-throw switch.
- ⑨ Incandescent luminaire, enclosed and gasketed with 100 watt lamp.
- ⑩ Service disconnect switch - 2-pole, 3-wire, 100 amp*, fused at 100 amp*, solid neutral in NEMA 4X enclosure having lockable external handle.
- ⑪ 100 amp*, 2-pole circuit breaker.
- ⑫ Branch circuit distribution block, 30A, line side (1) #10-#6 AWG, load side (2) #10-#6 AWG (24 required, only one shown- 16 hot, 4 neut, 4 gnd).
- ⑬ Power distribution block (Size as needed)

* Size larger as needed.

**IDOT STANDARD 825021-02
MODIFIED FOR THIS PROJECT**

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

FOR INFORMATION ONLY

Plotfiled: 3/23/2015 3:31:53 PM By: jechmidt

EEI Engineering Enterprises, Inc.
CONSULTING ENGINEERS
52 Wheeler Road
Sugar Grove, Illinois 60054
630.466.6700 / www.eeiweb.com

**UNITED CITY OF YORKVILLE
KENDALL COUNTY, ILLINOIS**

DESIGNED - CMF	REVISED -
DRAWN - JPS	REVISED -
CHECKED - TVW	REVISED -
DATE - 07/10/14	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LIGHTING DETAILS

SCALE: N.T.S. SHEET NO. 1 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00043-00-LS	KENDALL	22	15
CONTRACT NO. 87603				
ILLINOIS FED. AID PROJECT				

LUMINAIRE AND POLE SCHEDULE

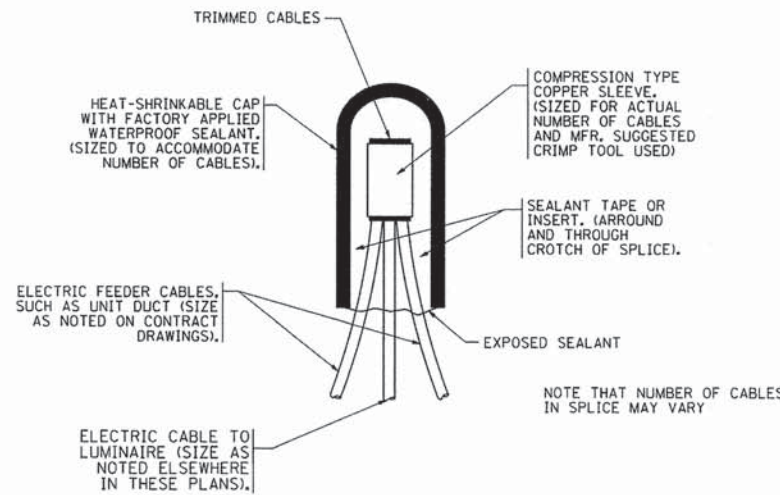
LIGHT POLE IDENTIFIER	POLE TYPE	LUMINAIRES						FESTOON RECEPTACLES	CONTROLLER IDENTIFIER
		ROADWAY			PEDESTRIAN				
		WATTAGE	CKT ID	WATTAGE	CKT ID	WATTAGE	CKT ID		
P1	DECORATIVE ROADWAY LIGHT POLE	250W	A	50W	B	180W	E	1	
P2		250W	B	50W	A	180W	F	1	
P3		250W	A	50W	B	180W	E	1	
P4		250W	B	50W	A	180W	F	1	
P5		250W	A	50W	B	180W	E	1	
P6		250W	B	50W	A	180W	F	1	
P7		250W	A	50W	B	180W	E	1	
P8		250W	B	50W	A	180W	F	1	
P9		250W	A	50W	B	180W	E	1	
P10		250W	B	50W	A	180W	F	1	
P11		250W	A	50W	B	180W	E	1	
P12		250W	C	50W	D	180W	G	2	
P13		250W	B	50W	A	180W	F	2	
P14		250W	A	50W	B	180W	E	2	
P15		250W	B	50W	A	180W	F	2	
P16		250W	A	50W	B	180W	E	2	
P17		250W	B	50W	A	180W	F	2	
P18		250W	D	50W	C	180W	H	1	
P19		250W	C	50W	D	180W	G	1	
P20		250W	D	50W	C	180W	H	1	
P21		250W	C	50W	D	180W	G	1	
P22		250W	D	50W	C	180W	H	1	
P23		250W	C	50W	D	180W	G	1	
P24		250W	D	50W	C	180W	H	1	
P25		250W	C	50W	D	180W	G	1	
P26	250W	D	50W	C	180W	H	1		
P27	250W	C	50W	D	180W	G	1		
P28	250W	D	50W	C	180W	H	2		
P29	250W	D	50W	C	180W	H	2		
P30	250W	C	50W	D	180W	G	2		
P31	250W	D	50W	C	180W	H	2		
P32	250W	C	50W	D	180W	G	2		
P33	250W	D	50W	C	180W	H	2		
P34	250W	C	50W	D	180W	G	2		
P35	250W	B	50W	A	180W	F	1		
P36	250W	A	50W	B	180W	E	2		
P37	250W	D	50W	C	180W	H	1		
P38	250W	D	50W	C	180W	H	2		
C1	COMBINATION TRAFFIC SIGNAL LIGHT POLE	400W	A	-	-	-	-	1	
C2		400W	B	-	-	-	-	1	
C3		400W	B	-	-	-	-	1	
C4		400W	A	-	-	-	-	1	
C5		250W	A	-	-	-	-	1	
C6		250W	B	-	-	-	-	1	
C7		400W	A	-	-	-	-	2	
C8		400W	B	-	-	-	-	2	
C9		400W	C	-	-	-	-	1	
C10		400W	D	-	-	-	-	1	
C11		400W	C	-	-	-	-	1	
C12		250W	C	-	-	-	-	1	
C13		250W	D	-	-	-	-	1	
C14		400W	D	-	-	-	-	2	
C15		400W	C	-	-	-	-	2	
BP1	DECORATIVE LIGHT BRIDGE LIGHT POLE	250W	A	50W	B	180W	E	2	
BP2		250W	B	50W	A	180W	F	2	
BP3		250W	A	50W	B	180W	E	2	
BP4		250W	C	50W	D	180W	G	2	
BP5		250W	D	50W	C	180W	H	2	
BP6		250W	C	50W	D	180W	G	2	
EXP1	EX. LIGHT BRIDGE LIGHT POLE	400W	C	50W	D	180W	G	2	
EXP2		400W	D	50W	C	180W	H	2	

LIGHTING CONTROLLER #1 CIRCUIT LOADS (FOX ST)

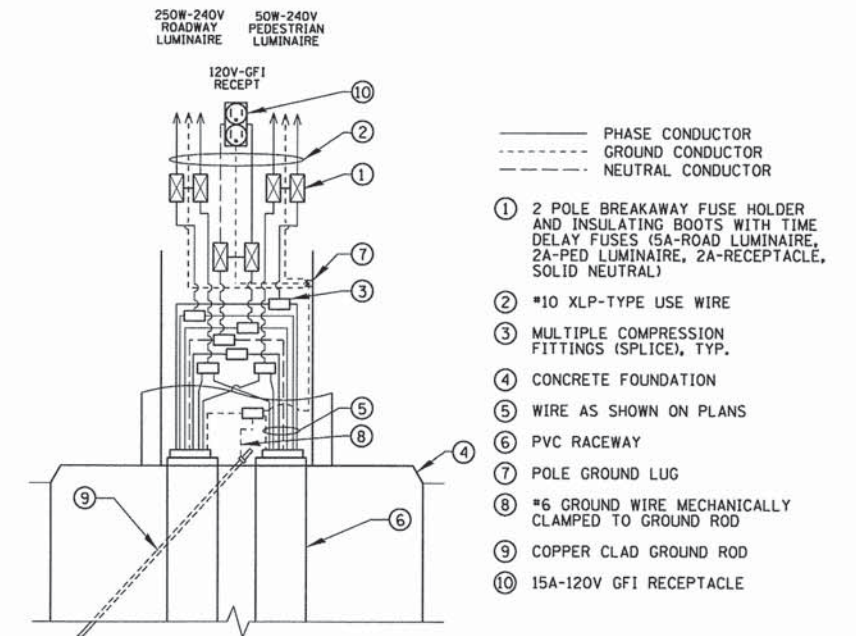
CIRCUIT ID	50W PEDESTRIAN LUMINAIRE		250W ROADWAY LUMINAIRE		400W ROADWAY LUMINAIRE		FESTOON RECEPTACLE		TOTAL CIRCUIT LOAD	
	QTY.	LOAD/FIXT. (WATTS)	QTY.	LOAD/FIXT. (WATTS)	QTY.	LOAD/FIXT. (WATTS)	QTY.	LOAD/RECT. (WATTS)	(WATTS)	AMPS (VOLTS)
A	6	70 W	7	310 W	2	480 W	--	180 W	3550 W	14.8A (240V)
B	6	70 W	7	310 W	2	480 W	--	180 W	3550 W	14.8A (240V)
C	6	70 W	6	310 W	2	480 W	--	180 W	3240 W	13.5A (240V)
D	5	70 W	7	310 W	1	480 W	--	180 W	3000 W	12.5A (240V)
E	--	70 W	--	310 W	--	480 W	6	180 W	1080 W	9.0A (120V)
F	--	70 W	--	310 W	--	480 W	6	180 W	1080 W	9.0A (120V)
G	--	70 W	--	310 W	--	480 W	5	180 W	900 W	7.5A (120V)
H	--	70 W	--	310 W	--	480 W	6	180 W	1080 W	9.0A (120V)
TOTAL	23	N/A	27	N/A	7	N/A	23	N/A	17.5 KW	72.8A (240V)

LIGHTING CONTROLLER #2 CIRCUIT LOADS (RIVER ST)

CIRCUIT ID	50W PEDESTRIAN LUMINAIRE		250W ROADWAY LUMINAIRE		400W ROADWAY LUMINAIRE		FESTOON RECEPTACLE		TOTAL CIRCUIT LOAD	
	QTY.	LOAD/FIXT. (WATTS)	QTY.	LOAD/FIXT. (WATTS)	QTY.	LOAD/FIXT. (WATTS)	QTY.	LOAD/RECT. (WATTS)	(WATTS)	AMPS (VOLTS)
A	4	70 W	5	310 W	1	480 W	--	180 W	2310 W	9.6A (240V)
B	5	70 W	4	310 W	1	480 W	--	180 W	2070 W	8.6A (240V)
C	7	70 W	6	310 W	2	480 W	--	180 W	3310 W	13.8A (240V)
D	7	70 W	6	310 W	2	480 W	--	180 W	3310 W	13.8A (240V)
E	--	70 W	--	310 W	--	480 W	5	180 W	900 W	7.5A (120V)
F	--	70 W	--	310 W	--	480 W	4	180 W	720 W	6.0A (120V)
G	--	70 W	--	310 W	--	480 W	7	180 W	1260 W	10.5A (120V)
H	--	70 W	--	310 W	--	480 W	7	180 W	1260 W	10.5A (120V)
TOTAL	23	N/A	21	N/A	6	N/A	23	N/A	15.1KW	63.1A (240V)

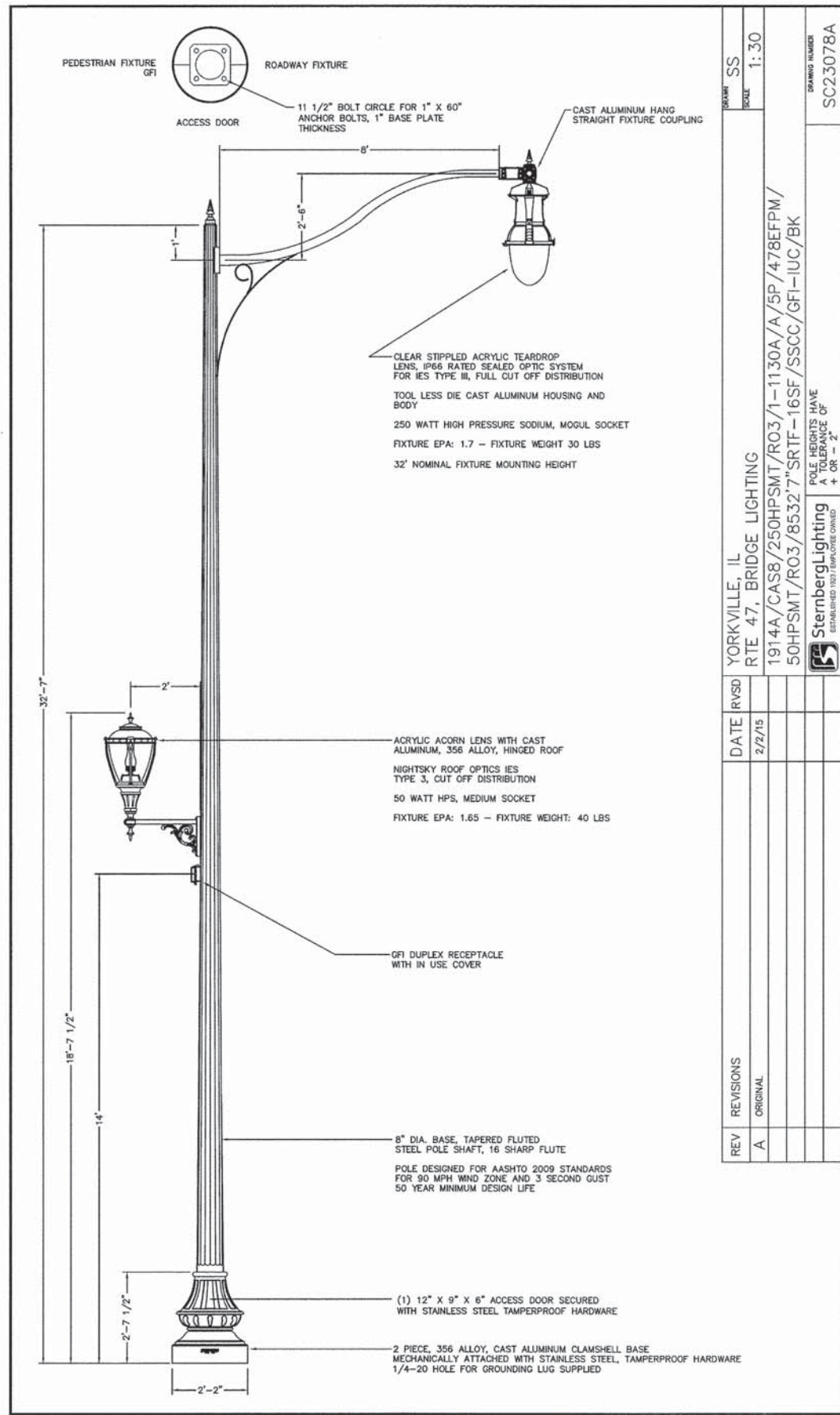


TYPICAL SPLICE DETAIL
N.T.S.



POLE HANDHOLE WIRING DIAGRAM
N.T.S.

Plotfile: 3/27/2015 7:56:05 AM By: jachmidt

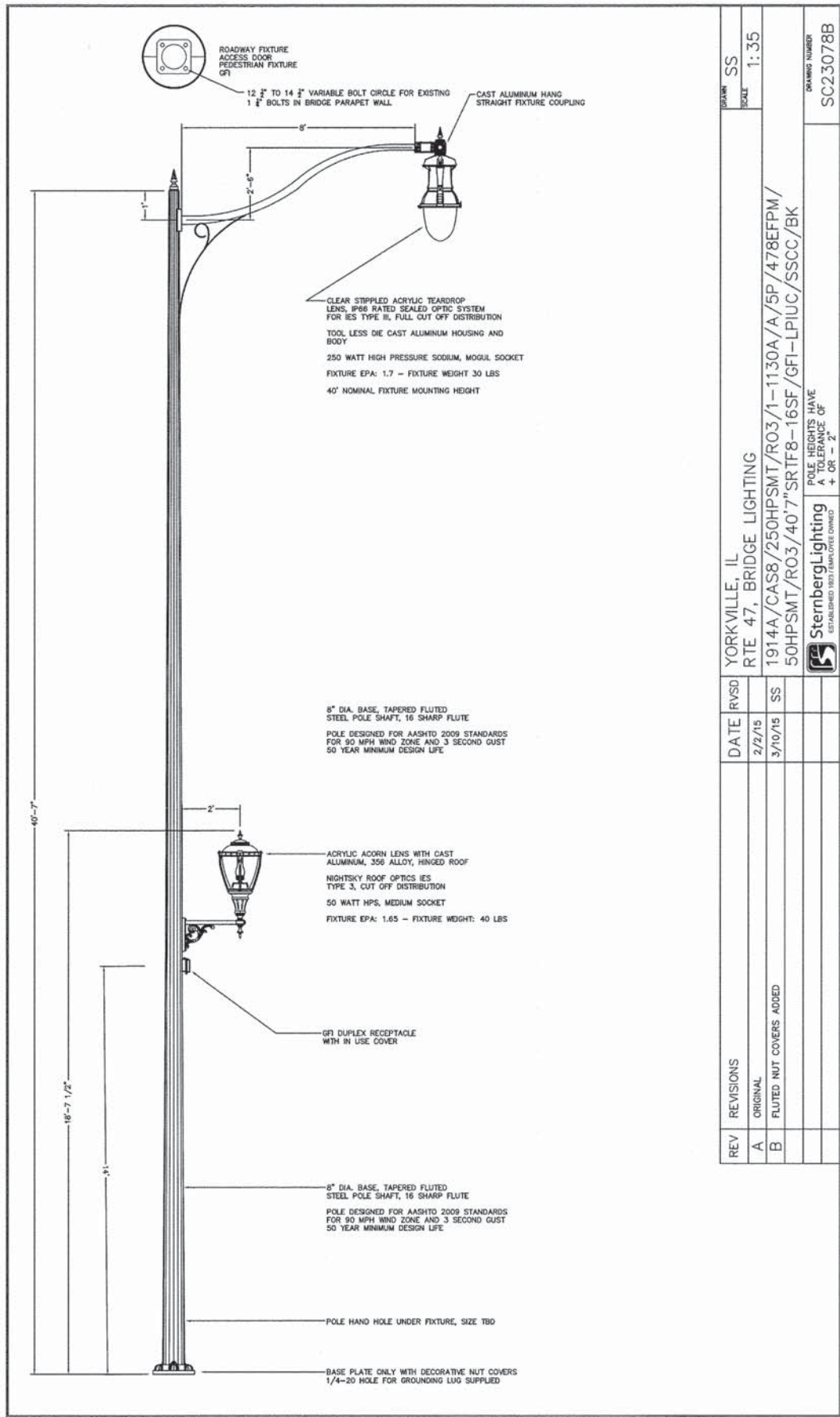


REV	REVISIONS	DATE	RVSD
A	ORIGINAL	2/2/15	

YORKVILLE, IL
RTE 47, BRIDGE LIGHTING
1914A/CAS8/250HPSMT/RO3/1-1130A/A/5P/478EFP/50HPSMT/RO3/8532.7"SRIF-16SF/SSCC/GFI-IUC/BK

POLE HEIGHTS HAVE A TOLERANCE OF + OR - 2"

SC23078A

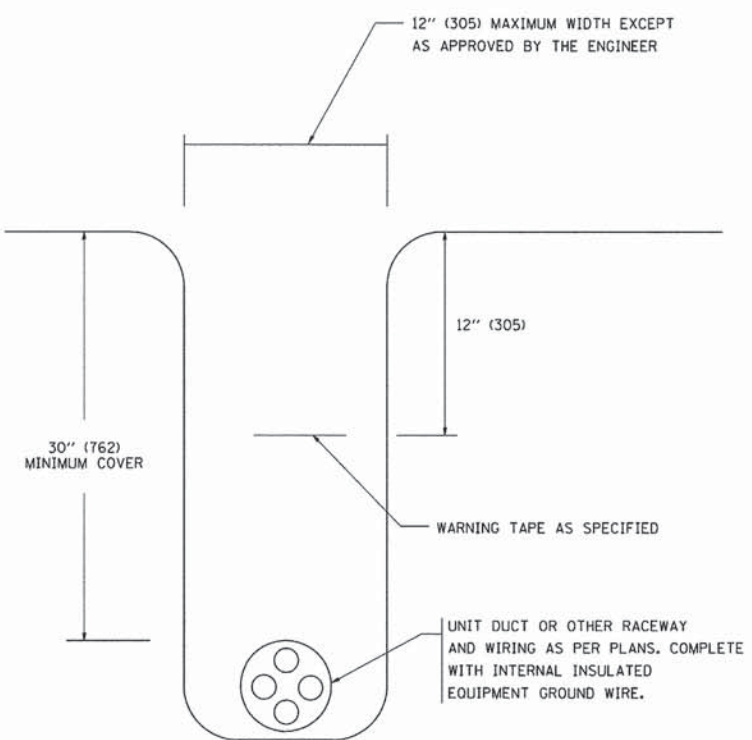


REV	REVISIONS	DATE	RVSD
A	ORIGINAL	2/2/15	
B	FLUTED NUT COVERS ADDED	3/10/15	SS

YORKVILLE, IL
RTE 47, BRIDGE LIGHTING
1914A/CAS8/250HPSMT/RO3/1-1130A/A/5P/478EFP/50HPSMT/RO3/40.7"SRIF8-16SF/GFI-LPIUC/SSCC/BK

POLE HEIGHTS HAVE A TOLERANCE OF + OR - 2"

SC23078B



LIGHTING UNIT A, COMPLETE
N.T.S.

LIGHTING UNIT B, COMPLETE
N.T.S.

TYPICAL WIRING IN TRENCH DETAIL
N.T.S.

By: Jschmidt
Plot Fed: 3/23/2015 4:21:43 PM

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**UNITED CITY OF YORKVILLE
KENDALL COUNTY, ILLINOIS**

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DRAWN	-	JPS	REVISED	-
CHECKED	-	TVW	REVISED	-
DATE	-	07/10/14	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**





LIGHTING DETAILS

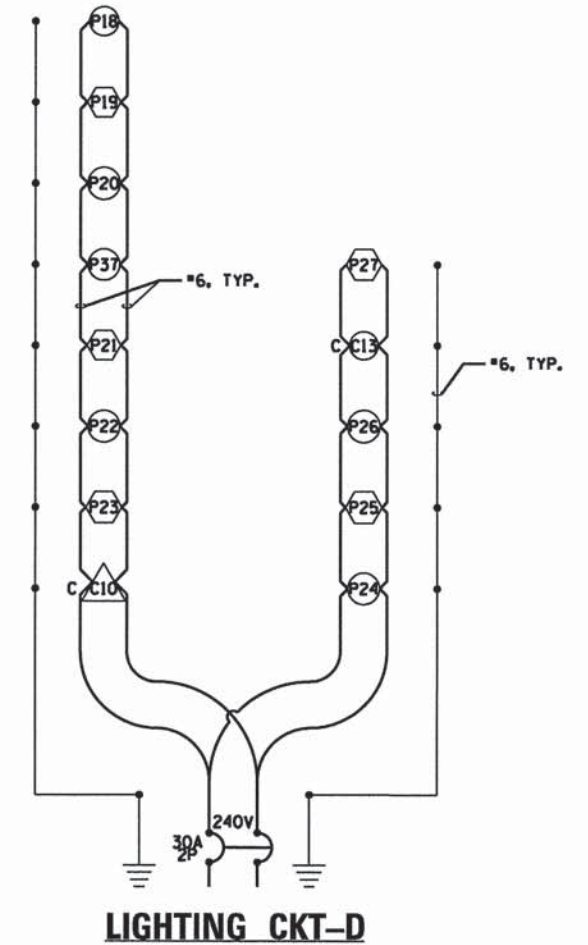
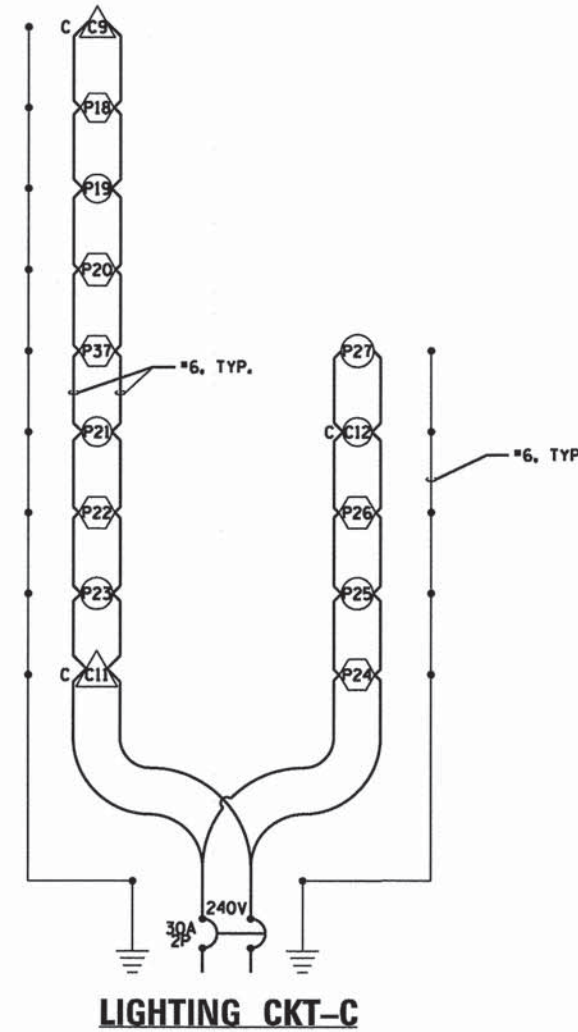
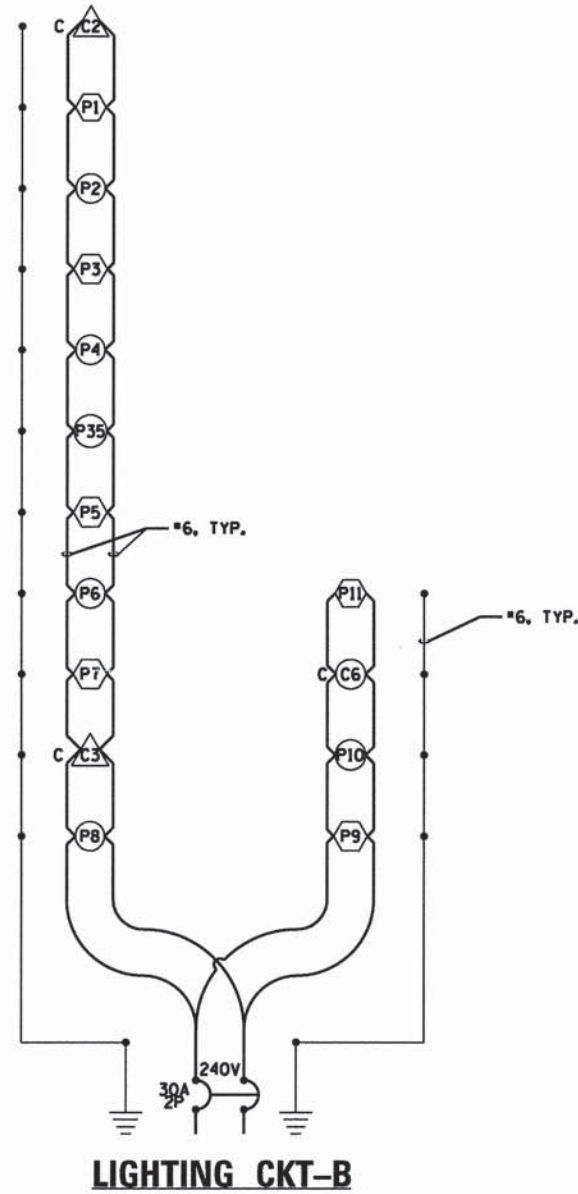
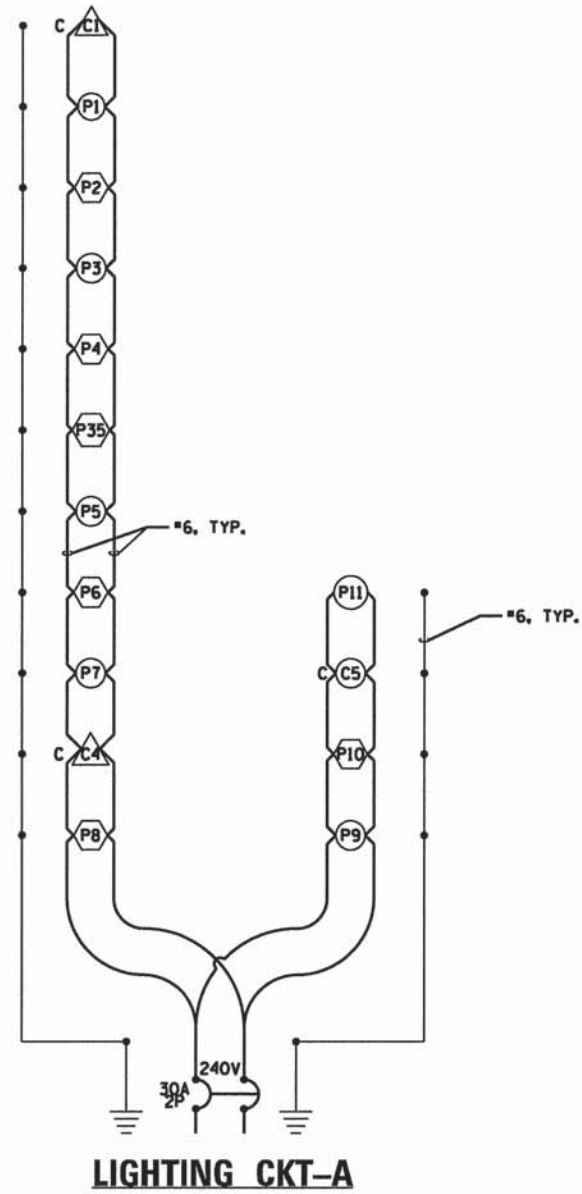
SCALE: N.T.S. SHEET NO. 3 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00043-00-LS	KENDALL	22	17
CONTRACT NO. 87603			ILLINOIS FED. AID PROJECT	

NOTES:
 1. 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

-  PROPOSED 50W PEDESTRIAN LUMINAIRE
-  PROPOSED 250W ROADWAY LUMINAIRE
-  PROPOSED 250W COMBINATION LUMINAIRE (BY OTHERS)
-  PROPOSED 400W COMBINATION LUMINAIRE (BY OTHERS)



LIGHTING CONTROLLER #1 – LUMINAIRE CIRCUIT ONE LINE DIAGRAMS

Plotfiled: 3/23/2015 3:51:08 PM By: jschmidt



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CHECKED - TVW	REVISED -
DATE - 07/10/14	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

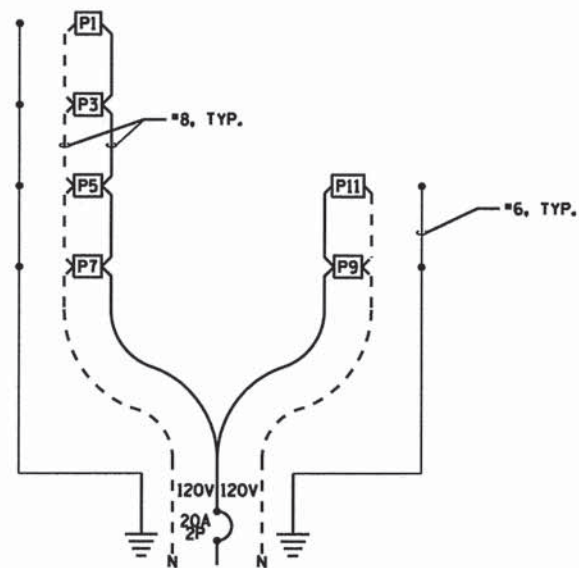
LIGHTING DETAILS

SCALE: N.T.S. SHEET NO. 4 OF 8 SHEETS STA. TO STA.

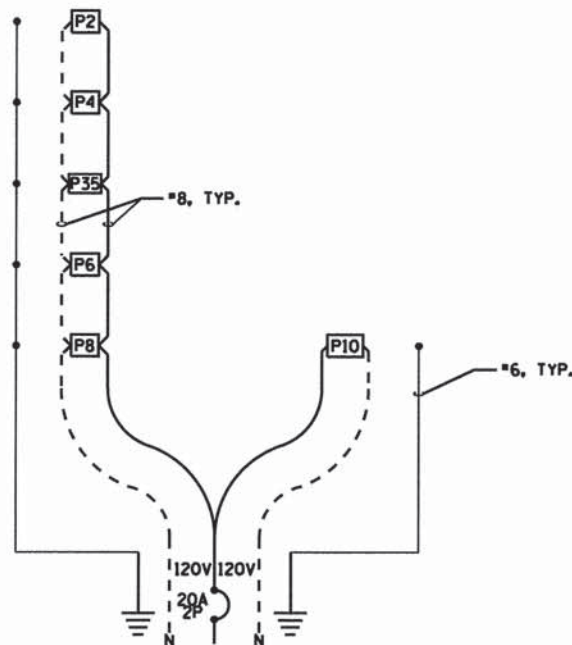
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00043-00-LS	KENDALL	22	18
CONTRACT NO. 87603				
ILLINOIS FED. AID PROJECT				

NOTES:
 1. 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.

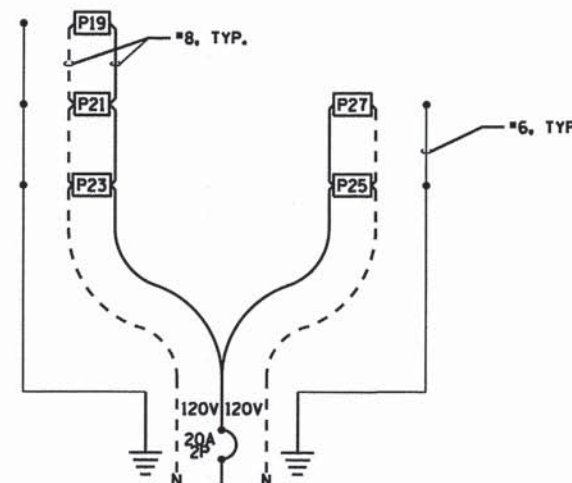
LEGEND
 [P1] PROPOSED 180W FESTOON RECEPETACLE



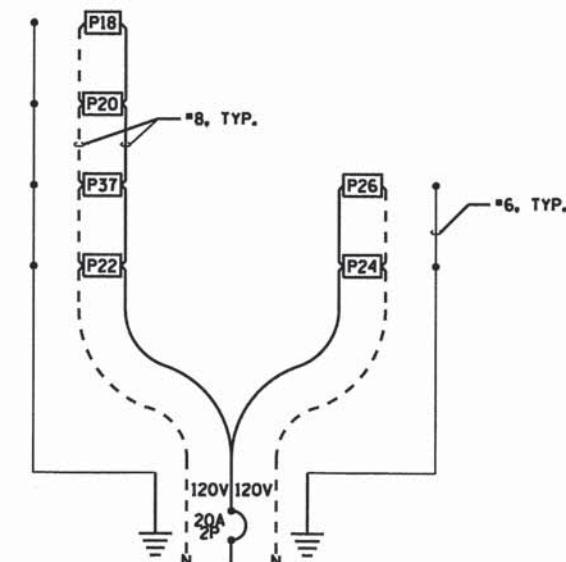
FESTOON CKT-E



FESTOON CKT-F



FESTOON CKT-G



FESTOON CKT-H

LIGHTING CONTROLLER #1 - FESTOON CIRCUIT ONE LINE DIAGRAMS

Plotted: 3/23/2015 3:52:34 PM By: juchmidt


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DATE - 07/10/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION











LIGHTING DETAILS

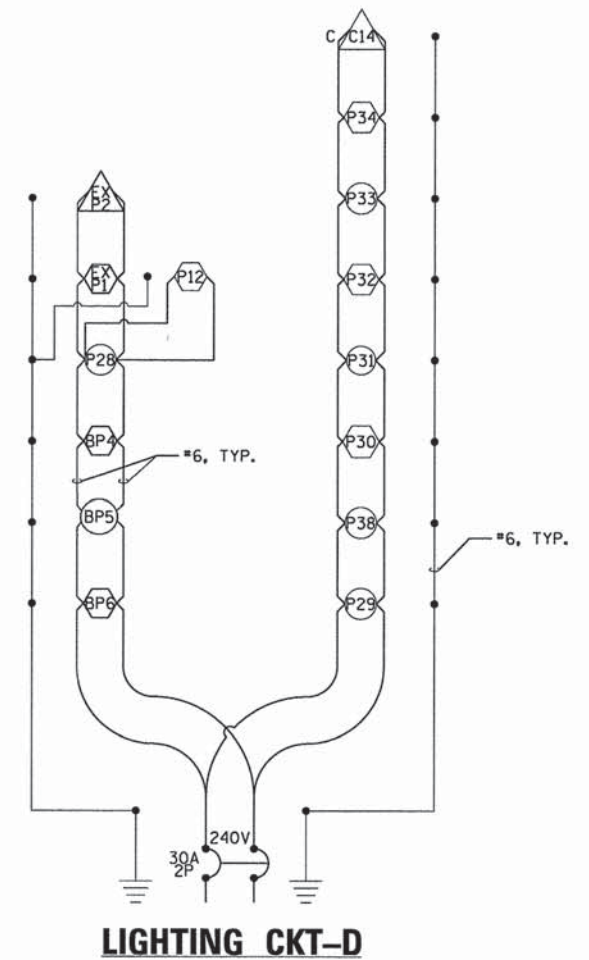
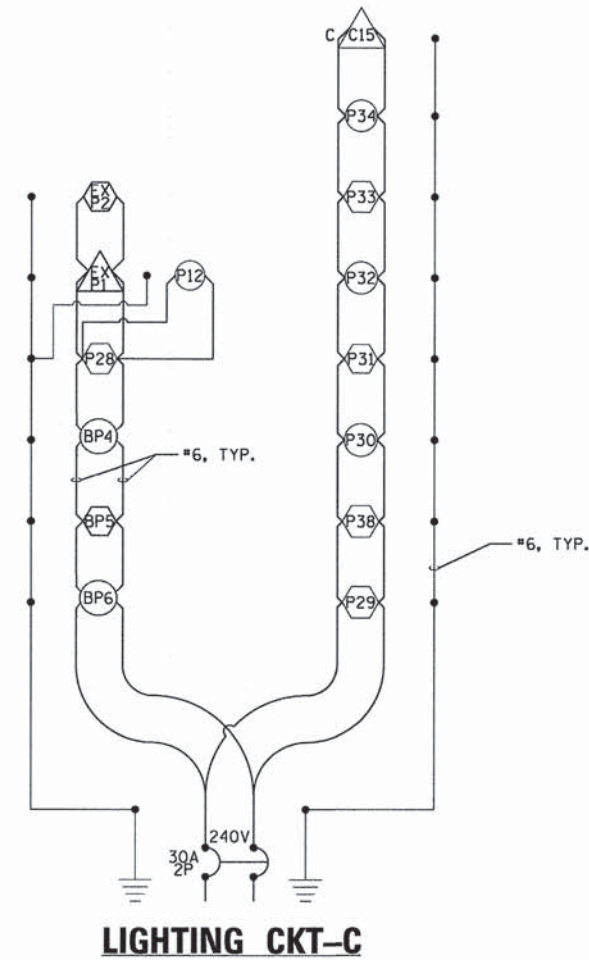
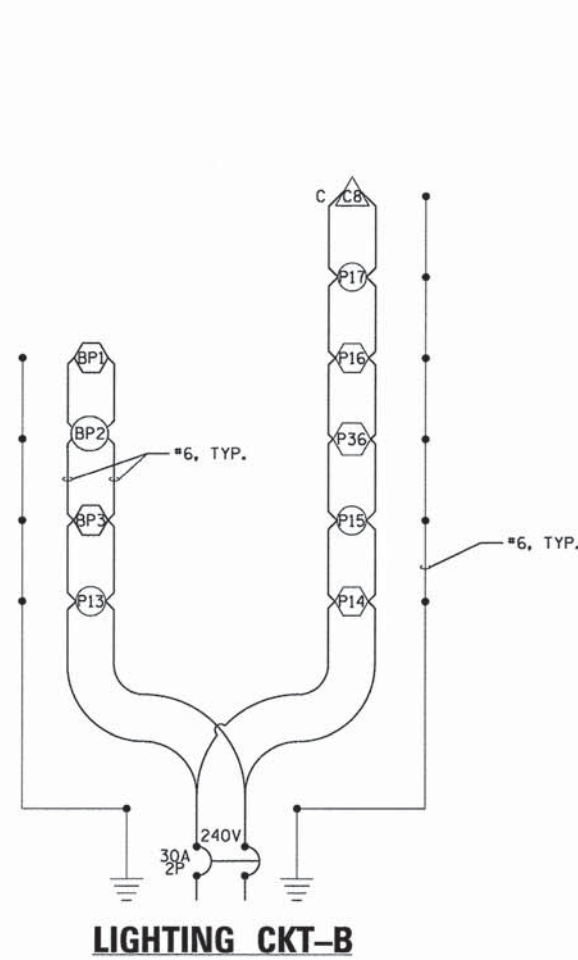
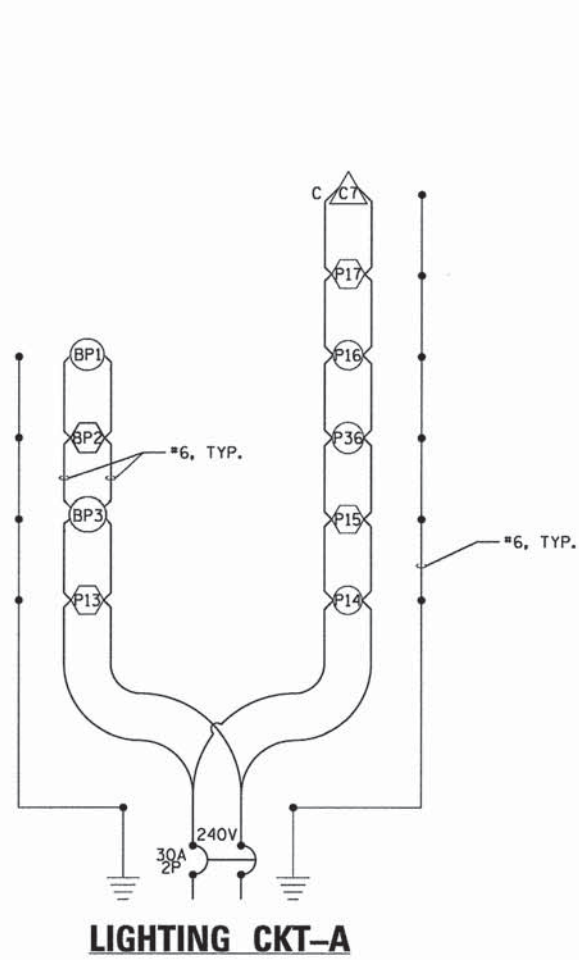
SCALE: N.T.S. SHEET NO. 5 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00043-00-LS	KENDALL	22	19
CONTRACT NO. 87603			ILLINOIS FED. AID PROJECT	

NOTES:
 1. 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

-   PROPOSED 50W PEDESTRIAN LUMINAIRE (P=ROADWAY POLE, BP=BRIDGE POLE)
-   PROPOSED 250W ROADWAY LUMINAIRE (P=ROADWAY POLE, BP=BRIDGE POLE)
-   PROPOSED 250W COMBINATION LUMINAIRE (BY OTHERS)
-   PROPOSED 400W COMBINATION LUMINAIRE (BY OTHERS)
-  EXISTING 50W PEDESTRIAN LUMINAIRE
-  EXISTING 400W ROADWAY LUMINAIRE



LIGHTING CONTROLLER #2 - LUMINAIRE CIRCUIT ONE LINE DIAGRAMS

Plotted: 3/23/2015 3:55:05 PM By: jachmidt



**UNITED CITY OF YORKVILLE
 KENDALL COUNTY, ILLINOIS**

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CHECKED - TVW	REVISED -
DATE - 07/10/14	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

LIGHTING DETAILS

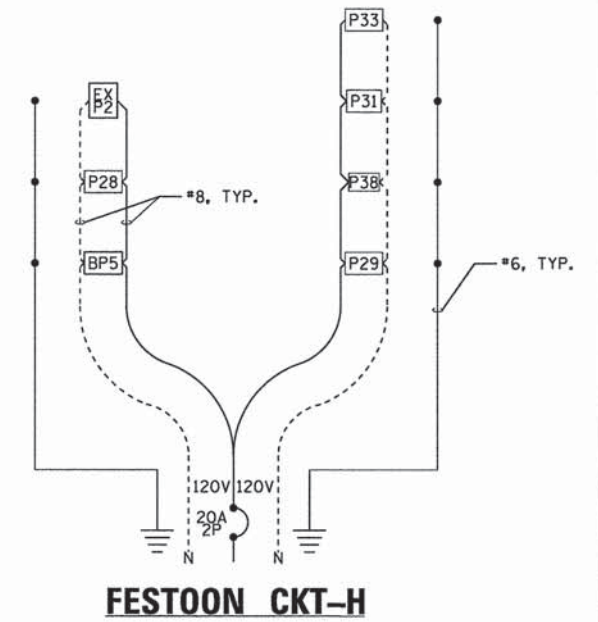
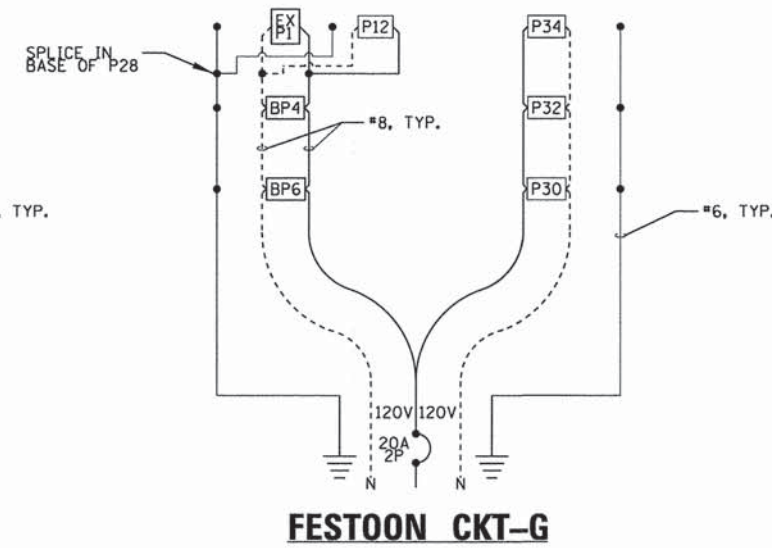
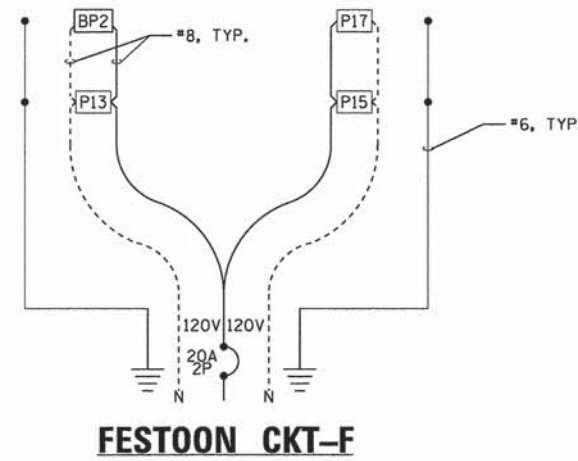
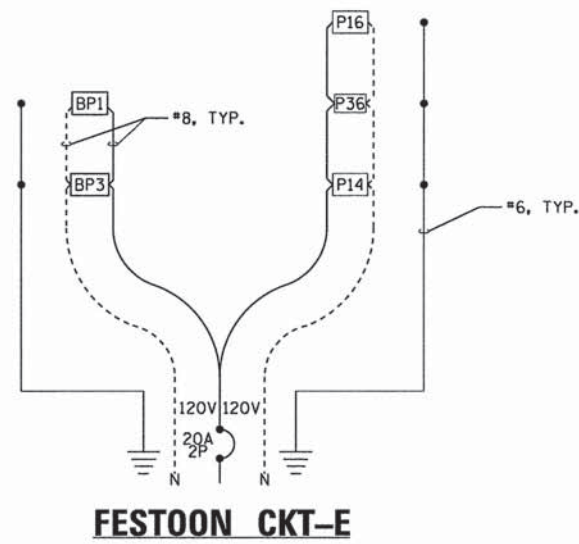
SCALE: N.T.S. SHEET NO. 6 OF 8 SHEETS STA. TO STA.

F.A.P. RTE. 326	SECTION 13-00043-00-LS	COUNTY KENDALL	TOTAL SHEETS 22	SHEET NO. 20
ILLINOIS FED. AID PROJECT			CONTRACT NO. 87603	

LEGEND

- [P] [BP] PROPOSED 180W FESTOON RECEPTACLE (P= ROADWAY POLE, BP=BRIDGE POLE)
- [EX] [P] EXISTING 180W FESTOON RECEPTACLE

NOTES:
 1. 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.



LIGHTING CONTROLLER #2 – FESTOON CIRCUIT ONE LINE DIAGRAMS

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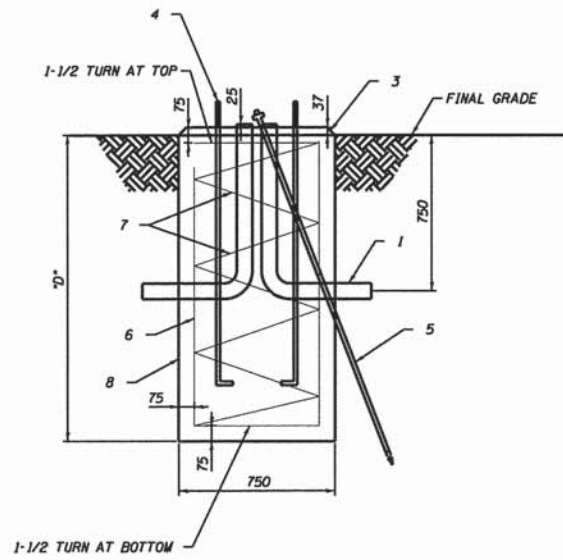
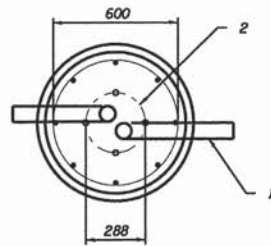
DESIGNED -	CMF	REVISED -	
DRAWN -	JPS	REVISED -	
CHECKED -	TVW	REVISED -	
DATE -	07/10/14	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS

SCALE: N.T.S. SHEET NO. 7 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00043-00-LS	KENDALL	22	21
CONTRACT NO. 87603				
ILLINOIS FED. AID PROJECT				

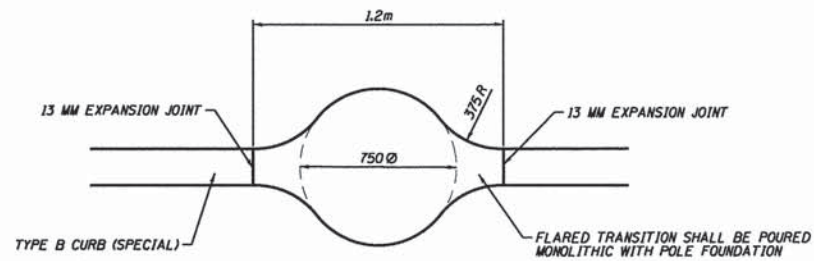


- DUAL 50 MM P.V.C. ELBOW RACEWAYS, TRANSITION TO HDPE CONDUIT 300MM OUTSIDE OF FOUNDATION WITH LISTED COUPLER.
- TEMPLATE DRAWING FOR SETTING OF ANCHOR BOLTS WILL BE FURNISHED BY THE CITY OF YORKVILLE.
- 38 MM CHAMFER.
- 25 MM DIA. GALVANIZED STEEL ANCHOR BOLTS, AS PER POLE MANUFACTURER REQUIREMENTS AND IN ACCORDANCE WITH SECTION 1070.0 OF THE STANDARD SPECIFICATIONS.
- 16 MM X 3.05 M COPPER CLAD GROUND ROD WITH MECHANICAL CONNECTION INSIDE THE LIGHT POLE BASE.
- REINFORCING BARS (AS PER SECTION 1006.10) EQUALLY SPACED ALONG A 600 MM DIA. CIRCLE. FOR NUMBER AND SIZE. SEE FOUNDATION DESIGN CHART.
- #13(#4) SPIRAL TIE BARS WITH 150 MM PITCH.
- CLASS SI CONCRETE.
- 13 MM EXPANSION JOINT MATERIAL SHALL BE PLACED BETWEEN POLE FOUNDATIONS AND CONCRETE SIDEWALKS OR PAVEMENT.

TYPE OF SOIL	FOUNDATION DESIGN CHART	
	DESIGN DEPTH OF FOUNDATION "D" (M)	REINFORCEMENT IN FOUNDATION
		VERTICAL BARS SPIRAL
SOFT CLAY	3.3	8-#19 X 3.200 M #13 X 3.536 M
MEDIUM CLAY	2.7	8-#19 X 2.591 M #13 X 2.957 M
STIFF CLAY	2.25	8-#19 X 2.134 M #13 X 2.499 M
LOOSE SAND	2.85	8-#19 X 2.743 M #13 X 3.109 M
MEDIUM SAND	2.775	8-#19 X 2.667 M #13 X 3.018 M
DENSE SAND	2.4	8-#19 X 2.286 #13 X 2.652 M
ROCK OR SOLIDIFIED SLAG	1.5	NONE NONE

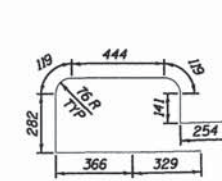
NOTE: 3.0 M DEPTH ASSUMED FOR EACH FOUNDATION. ACTUAL DEPTH MAY BE ADJUSTED TO FIT SOIL CONDITIONS AT EACH LOCATION. THE ENGINEER SHALL EXAMINE EACH EXCAVATION IN PROGRESS AND MAKE A DEPTH DETERMINATION.

LIGHT POLE FOUNDATION, 750MM DIAMETER, SPECIAL

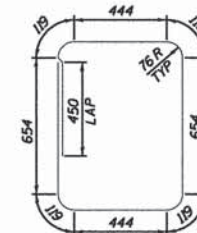


Bar	Size	Length	Shape
d ₅ (E)	#16	2.054m	□
d ₆ (E)	#16	3.122m	□
d ₇ (E)	#16	1.872m	□

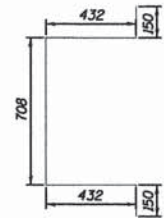
*Bars shown are those modified for light pole foundation. See barrier detail for standard barrier reinforcement.



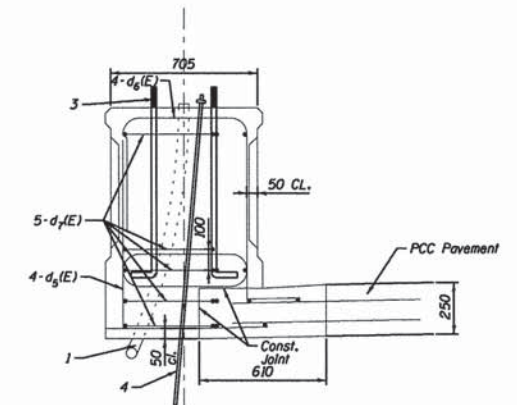
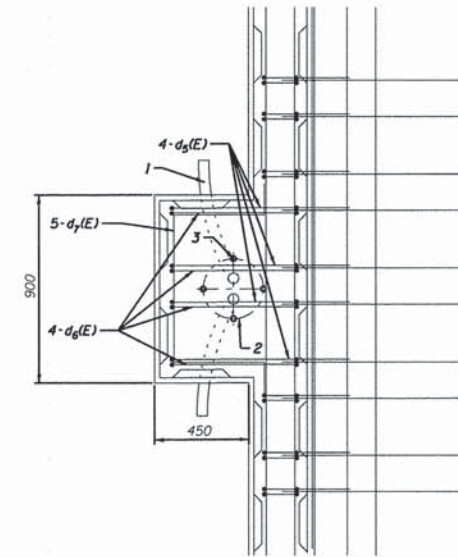
BAR d₅(E)



BAR d₆(E)

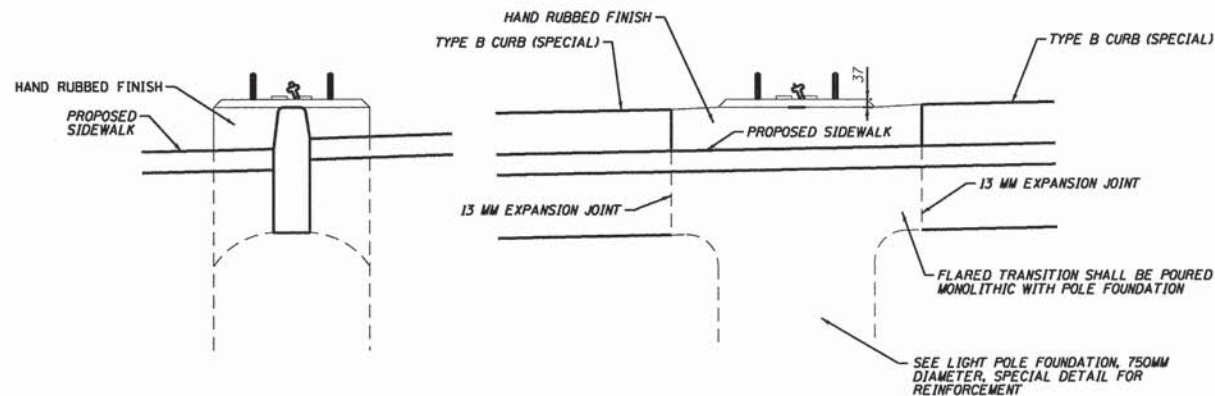


BAR d₇(E)



- DUAL 50 MM P.V.C. ELBOW RACEWAYS, TRANSITION TO HDPE CONDUIT 300 MM OUTSIDE OF FOUNDATION WITH LISTED COUPLER.
- TEMPLATE DRAWING FOR SETTING OF ANCHOR BOLTS WILL BE FURNISHED BY THE CITY OF YORKVILLE.
- 25 MM DIA. GALVANIZED STEEL ANCHOR BOLTS, AS PER POLE MANUFACTURER REQUIREMENTS AND IN ACCORDANCE WITH SECTION 1070.0 OF THE STANDARD SPECIFICATIONS.
- 16 MM X 3.05 M COPPER CLAD GROUND ROD WITH CAD WELDED CONNECTION INSIDE THE LIGHT POLE BASE.

LIGHT POLE FOUNDATION, SPECIAL



LIGHT POLE FOUNDATION, 750MM DIAMETER, SPECIAL (MODIFIED)

FOR INFORMATION ONLY

Plot: eed_3/23/2015 3:57:17 PM By: jschmidt

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CHECKED - TVW
DATE - 07/10/14

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REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS

SCALE: N.T.S. SHEET NO. 8 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
326	13-00043-00-LS	KENDALL	22	22
CONTRACT NO. 87603				
ILLINOIS FED. AID PROJECT				