

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00199-00-LS	COOK	19	10
E4: WIRING DIAGRAM 'E2' & 'E4'				
ILLINOIS 63041				

GENERAL ELECTRICAL NOTES

- REFER TO SHEETS E4 AND E10 FOR ONE LINE DIAGRAMS, PANEL SCHEDULES, CONTROL DIAGRAMS, AND BILL OF MATERIALS.
- REFER TO SHEET E11 FOR LUMINAIRE SCHEDULE AND LIGHTING NOTES.

LOAD TABULATION AND VOLTAGE DROP FOR LIGHTING CONTROLLER "E4"

CIRCUIT	VOLT AMPS	AMPS	HIGHEST VOLTAGE DROP ON CIRCUIT
A LTG	2090	8.7	0.7% (E4A9)
B LTG	1680	7.0	0.7% (E4B8)
C LTG	1260	5.3	1.3% (E4C6)
D LTG	1050	4.4	1.0% (E4D5)
E LTG	1670	7.0	2.5% (E4E7)
F LTG	1260	5.3	1.9% (E4F6)
U1 RECEPES	1000	8.3	1.0% (E4A4)
U2 RECEPES	800	6.7	0.9% (E4B3)
V1 RECEPES	800	6.7	1.9% (E4A9)
V2 RECEPES	800	6.7	1.9% (E4B8)
W1 RECEPES	600	5.0	2.2% (E4D3)
W2 RECEPES	600	5.0	2.2% (E4D2)
X1 RECEPES	600	5.0	2.6% (E4C6)
X2 RECEPES	400	3.3	1.7% (E4D5)
Y1 RECEPES	800	6.7	4.0% (E4E4)
Y2 RECEPES	600	5.0	3.0% (E4F3)
Z1 RECEPES	600	5.0	4.2% (E4F6)
Z2 RECEPES	600	5.0	4.4% (E4E7)

ELECTRICAL SYMBOL LEGEND

- REFER TO LUMINAIRE SCHEDULE ON SHEET E11 FOR FIXTURE TYPE
- POLE MOUNTED LUMINAIRE
- #6 AWG PHASE AND NEUTRAL & #8 GROUND 600V. (XLP-TYPE USE) IN 2" RIGID GALVANIZED STEEL CONDUIT
- GROUND
- NEUTRAL
- PHASE
- CIRCUITING DESIGNATION SCHEME
3 - DENOTES FIXTURE NO. ON GIVEN CIRCUIT
A - DENOTES CIRCUIT LABEL
E2 - DENOTES LIGHTING CONTROLLER
- (N1) CALCULATION NODE FOR VOLTAGE DROP
- REFER TO 2/E8 AND 2/E10 FOR LIGHTING CONTROL CABINET DETAILS.
- DUPLEX RECEPTACLE, WEATHERPROOF, REFER TO SHEET E11 FOR MATERIAL LIST. INSTALL ABOVE TOP BANNER ARM.
- 2- DENOTES 120 VOLT PHASE
- W- DENOTES 240 VOLT CIRCUIT AND NEUTRAL

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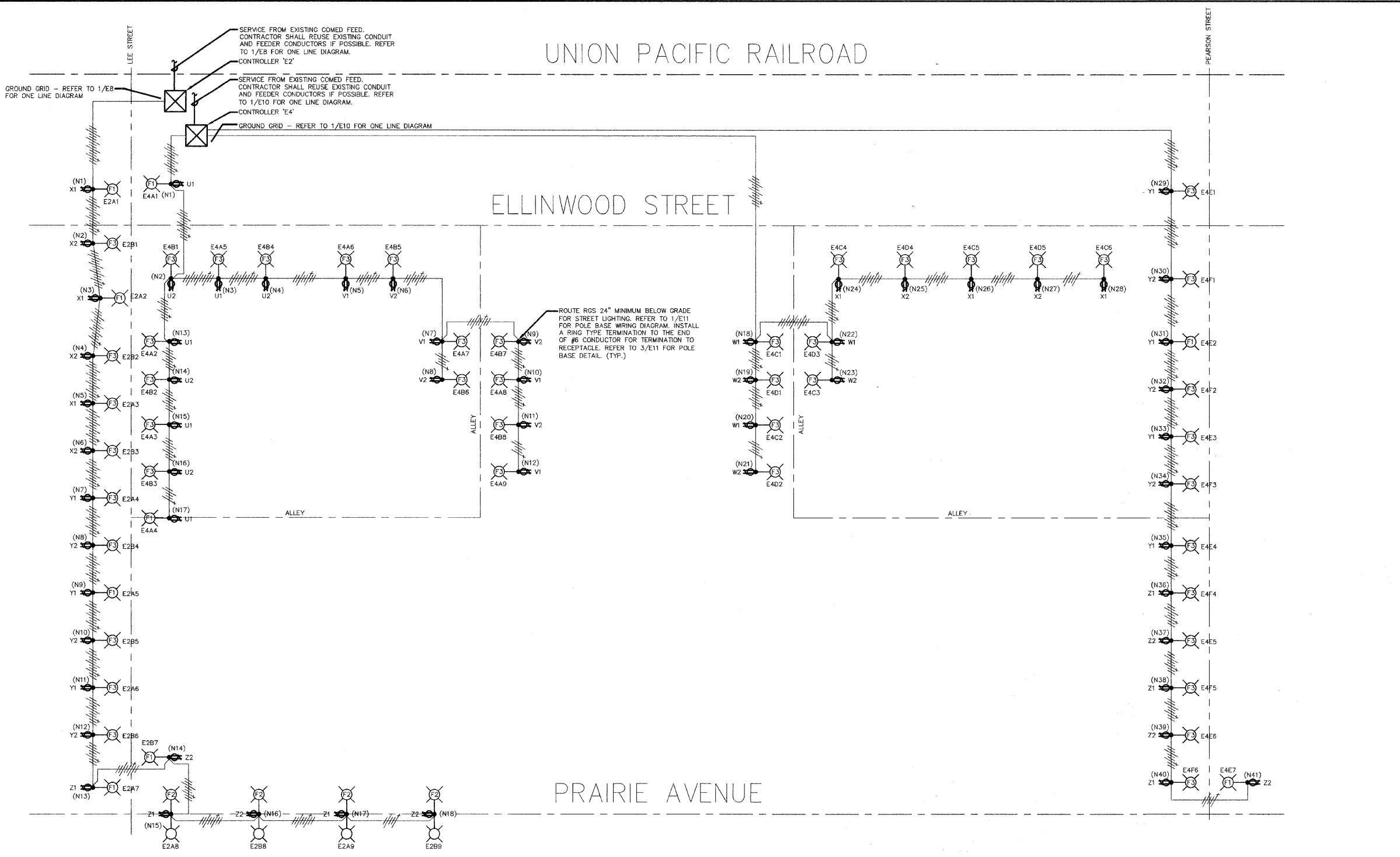
REFERENCE SCALE IN INCHES
 0 1 2 3

ILLINOIS DEPARTMENT OF TRANSPORTATION
E4: WIRING DIAGRAM 'E2' & 'E4'

DES PLAINES LIGHTING IMPROVEMENTS AND STREETScape DES PLAINES, ILLINOIS

SCALE: NTS
 DATE: 8-14-2009

DRAWN BY: JOP
 DESIGNED BY: MCK
 CHECKED BY: MCK



1 WIRING DIAGRAM - CONTROLLERS 'E2' AND 'E4'

LOAD TABULATION AND VOLTAGE DROP FOR LIGHTING CONTROLLER "E2"

CIRCUIT	VOLT AMPS	AMPS	HIGHEST VOLTAGE DROP ON CIRCUIT
A LTG	3110	13.0	2.6% (E2A9)
B LTG	2810	11.7	2.8% (E2B9)
X1 RECEPES	600	5.0	0.7% (E2A3)
X2 RECEPES	600	5.0	0.9% (E2B3)
Y1 RECEPES	600	5.0	1.4% (E2A6)
Y2 RECEPES	600	5.0	1.6% (E2B6)
Z1 RECEPES	600	5.0	2.8% (E2A9)
Z2 RECEPES	600	5.0	3.1% (E2B9)

PLANS PREPARED BY:
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REVISIONS	
NAME	DATE