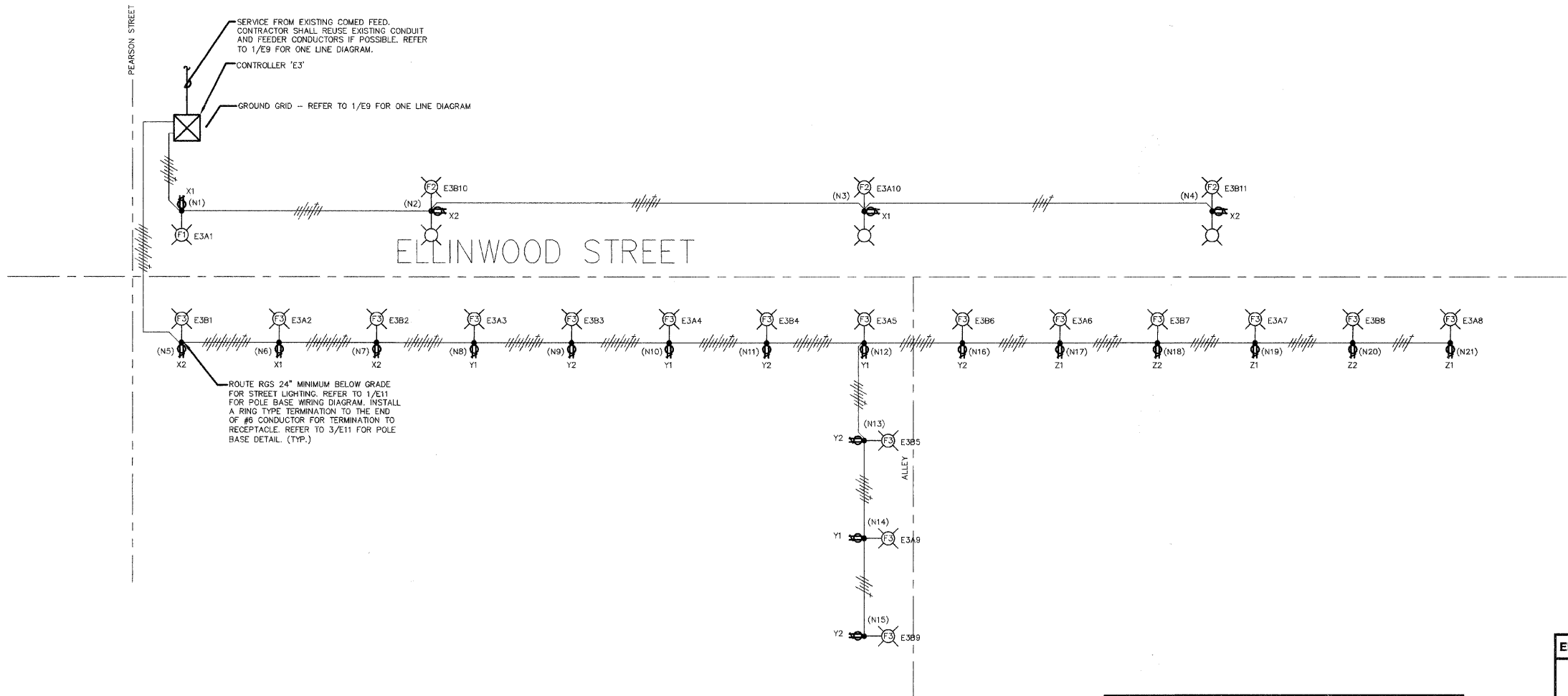


F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	06-00199-00-LS	COOK	19	11
E5: WIRING DIAGRAM 'E3'				
ILLINOIS				6304

GENERAL ELECTRICAL NOTES

- REFER TO SHEET E9 FOR ONE LINE DIAGRAM, PANEL SCHEDULE, CONTROL DIAGRAM, AND BILL OF MATERIALS.
- REFER TO SHEET E11 FOR LUMINAIRE SCHEDULE AND LIGHTING NOTES.



SERVICE FROM EXISTING COMED FEED.
CONTRACTOR SHALL REUSE EXISTING CONDUIT
AND FEEDER CONDUCTORS IF POSSIBLE. REFER
TO 1/E9 FOR ONE LINE DIAGRAM.

CONTROLLER 'E3'

GROUND GRID -- REFER TO 1/E9 FOR ONE LINE DIAGRAM

ROUTE RGS 24" MINIMUM BELOW GRADE
FOR STREET LIGHTING. REFER TO 1/E11
FOR POLE BASE WIRING DIAGRAM. INSTALL
A RING TYPE TERMINATION TO THE END
OF #6 CONDUCTOR FOR TERMINATION TO
RECEPTACLE. REFER TO 3/E11 FOR POLE
BASE DETAIL. (TYP.)

1 WIRING DIAGRAM - CONTROLLER 'E3'
NO SCALE

**LOAD TABULATION AND VOLTAGE DROP
FOR LIGHTING CONTROLLER "E3"**

CIRCUIT	VOLT AMPS	AMPS	VOLTAGE DROP AT WORST POLE
A LTG	2600	10.8	1.1% (E3A8)
B LTG	3130	13.0	1.1% (E3B8)
X1 RECEPES	600	5.0	0.4% (E3A10)
X2 RECEPES	800	6.7	1.1% (E3B11)
Y1 RECEPES	800	6.7	2.1% (E3A9)
Y2 RECEPES	1000	8.3	2.6% (E3B5)
Z1 RECEPES	600	6.7	2.2% (E3A8)
Z2 RECEPES	400	5.0	1.5% (E3B8)

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

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
E5: WIRING DIAGRAM 'E3'

**DES PLAINES LIGHTING IMPROVEMENTS
AND STREETSCAPE
DES PLAINES, ILLINOIS**

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

SCALE: NTS
DATE: 8-14-2009