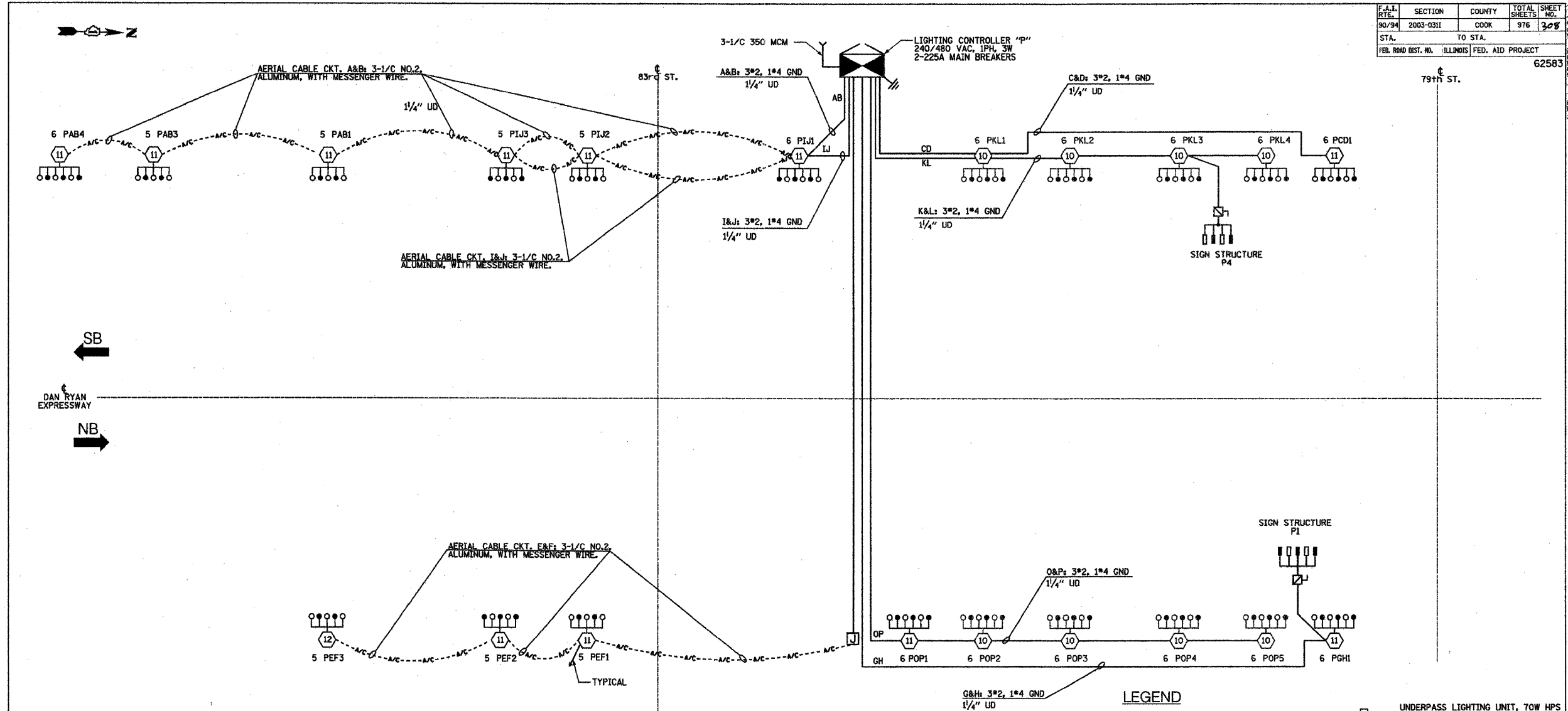


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2003-0311	COOK	976	208
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		62583	



**LOAD TABLE**  
LIGHTING CONTROLLER "P"

CIRCUIT	RED PHASE		BLACK PHASE		
	AMPS	WATTS	AMPS	WATTS	
A	18.0	4,320	B	14.0	3,360
C	6.0	1,440	D	6.0	1,440
E	16.0	3,840	F	14.0	3,360
G	7.76	1,862.4	H	8.64	2,073.6
I	16.0	3,840	J	16.0	3,840
K	25.8	6,192	L	25.8	6,192
M			N		
O	30.0	7,200	P	30.0	7,200
TOTAL	92.0	22,094.4	TOTAL	114.44	20,865.6

**SINGLE LINE DIAGRAM**  
**LIGHTING CONTROLLER "P"**  
(NOT TO SCALE)

NOTES:  
1. SEE DRAWING ME-12 FOR WIRING DIAGRAM DETAILS.

- LEGEND**
- HIGH MAST LIGHT TOWER.
  - 400 W. HPS LUMINAIRE (BLACK PHASE- SOLID SYMBOL, RED PHASE-OPEN SYMBOL)
  - HIGH MAST TOWER DESIGNATION.
  - LIGHTED SIGN STRUCTURE WITH 170 W. FLUORESCENT LUMINAIRE, QUANTITY OF LUMINAIRE AS REQUIRED. (BLACK PHASE- SOLID SYMBOL, RED PHASE, OPEN SYMBOL)
  - 3 POLE SAFETY SWITCH
  - UNDERPASS LIGHTING UNIT, 70W HPS LUMINAIRE. (BLACK PHASE- SOLID SYMBOL, RED PHASE-OPEN SYMBOL)
  - LIGHTING CONTROLLER
  - GROUND FIELD
  - ELECTRIC UTILITY SERVICE

**SINGH** 300 W. ADAMS ST.  
CHICAGO, IL 60608  
SINGH & ASSOCIATES, INC. TEL: (312) 629-0240  
CONSULTING ENGINEERS FAX: (312) 629-8448

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)  
31st STREET TO I-57

**SINGLE LINE DIAGRAM**  
**LIGHTING CONTROLLER "P"**  
**PROPOSED IMPROVEMENTS 2005**

SCALE: NOT TO SCALE      DRAWN BY: YJ  
DATE: OCTOBER 29, 2004      CHECKED BY: TM

**FOR INFORMATION ONLY**

(Sheet 1 of 2)

**LIN ENGINEERING, LTD.**  
Consulting Engineers  
Chatham, Illinois

USER NAME =	DESIGNED - MTH	REVISED -
FILE NAME =	CHECKED - ADB	REVISED -
PLOT SCALE =	DRAWN - AJF	REVISED -
PLOT DATE =	CHECKED - MTH	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**ELECTRICAL DETAILS**  
**6POP2 & 6POP4**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2011-021-L	COOK	19	16
				CONTRACT NO. 60P16
ILLINOIS FED. AID PROJECT				