

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
320	*	LOGAN	111	62
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* 103, 22 (I, N, TS)				

**LIGHTING QUANTITIES**

LOCATION: LINCOLN PARKWAY & WOODLAWN ROAD

QUANTITY	UNIT	ITEM
1	EACH	ELECTRIC SERVICE INSTALLATION
14	EACH	GROUND ROD, 5/8" X 10'
434.0	FOOT	CONDUIT PUSHED, 2" DIA. INTERMEDIATE METAL
140.0	FOOT	CONDUIT PUSHED, 3" DIA. INTERMEDIATE METAL
4294.0	FOOT	TRENCH AND BACKFILL FOR ELECTRICAL WORK
3898.0	FOOT	UNIT DUCT, 600 V, 2-1C NO. 6, 1/C NO. 6 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
1110.0	FOOT	UNIT DUCT, 600 V, 2-1C NO. 4, 1/C NO. 4 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
14	EACH	LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, 250 WATT
1	EACH	LIGHTING CONTROLLER PHOTOCELL RELAY
14	EACH	LIGHT POLE STEEL, 45' MH, TENON MOUNT
92.0	FOOT	LIGHT POLE FOUNDATION, 30" DIAMETER
14	EACH	BREAKAWAY DEVICE, COUPLING, SS SCREEN
9	EACH	REMOVAL OF EXISTING LIGHTING UNIT - SALVAGE
9	EACH	POLE FOUNDATION REMOVED
1	EACH	REMOVE ELECTRIC SERVICE INSTALLATION
1	EACH	REMOVAL OF LIGHTING CONTROLLER
1	EACH	REMOVAL OF LIGHTING CONTROLLER FOUNDATION

**ILLINOIS DEPARTMENT OF TRANSPORTATION  
LUMINAIRE PERFORMANCE TABLE**

GIVEN CONDITIONS		
ROADWAY DATA:	PAVEMENT WIDTH	84 FT.
	NUMBER OF LANES	6
	MEDIAN WIDTH	12 FT.
	IES SURFACE CLASSIFICATION	R3
	Q-ZERO VALUE	.07
LIGHT POLE DATA:	MOUNTING HEIGHT	45 FT.
	MAST ARM LENGTH	6 FT.
	POLE SET-BACK FROM EDGE OF PAVEMENT	4 FT.
LUMINAIRE DATA:	LAMP TYPE	HPS
	LAMP LUMENS	28000
	IES VERTICAL DISTRIBUTION	M
	IES CONTROL OF DISTRIBUTION	C
	IES LATERAL DISTRIBUTION	3
	TOTAL LIGHT LOSS FACTOR	.69
LAYOUT DATA:	SPACING	228 FT.
	CONFIGURATION	2 ROWS STAG
	LUMINAIRE OVERHANG OVER EDGE OF PAVEMENT LANE	2 FT.

NOTE: VARIATIONS FROM THE ABOVE SPECIFIED IES DISTRIBUTION PATTERN MAY BE REQUESTED AND ACCEPTANCE OF VARIATIONS WILL BE SUBJECT TO REVIEW BY THE ENGINEER BASED ON HOW WELL THE PERFORMANCE REQUIREMENTS ARE MET.

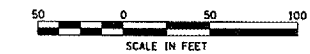
**PERFORMANCE REQUIREMENTS**

NOTE: THESE PERFORMANCE REQUIREMENTS SHALL BE THE MINIMUM ACCEPTABLE STANDARDS OF PHOTOMETRIC PERFORMANCE FOR THE LUMINAIRE, BASED ON THE GIVEN CONDITIONS LISTED ABOVE.

ILLUMINATION:	AVERAGE HORIZONTAL ILLUMINATION, (E AVE)	9.0 LUX
	UNIFORMITY RATIO, (E AVE/E MIN)	3.0
LUMINANCE:	AVERAGE LUMINANCE: (L AVE)	0.6 CD/M <sup>2</sup>
	UNIFORMITY RATIOS: (L AVE/L MIN)	3.5
	(L MAX/L MIN)	6.0
	MAXIMUM VEILING LUMINANCE RATIO: (L V/L AVE)	0.3

**LEGEND**

- LIGHT POLE STEEL, 45' M.H., TENON MOUNT WITH LUMINAIRE, SODIUM VAPOR, MULTI-MOUNT, 250 WATT ON BREAKAWAY DEVICE, COUPLING.
- CONDUIT PUSHED, INTERMEDIATE METAL (SIZED AS SHOWN)
- UNIT DUCT IN TRENCH (SIZED AS SHOWN ON WIRING DIAGRAM)
- LIGHTING CONTROLLER PHOTOCELL RELAY (TO BE INSTALLED ADJACENT TO EXISTING LIGHTING CONTROLLER)

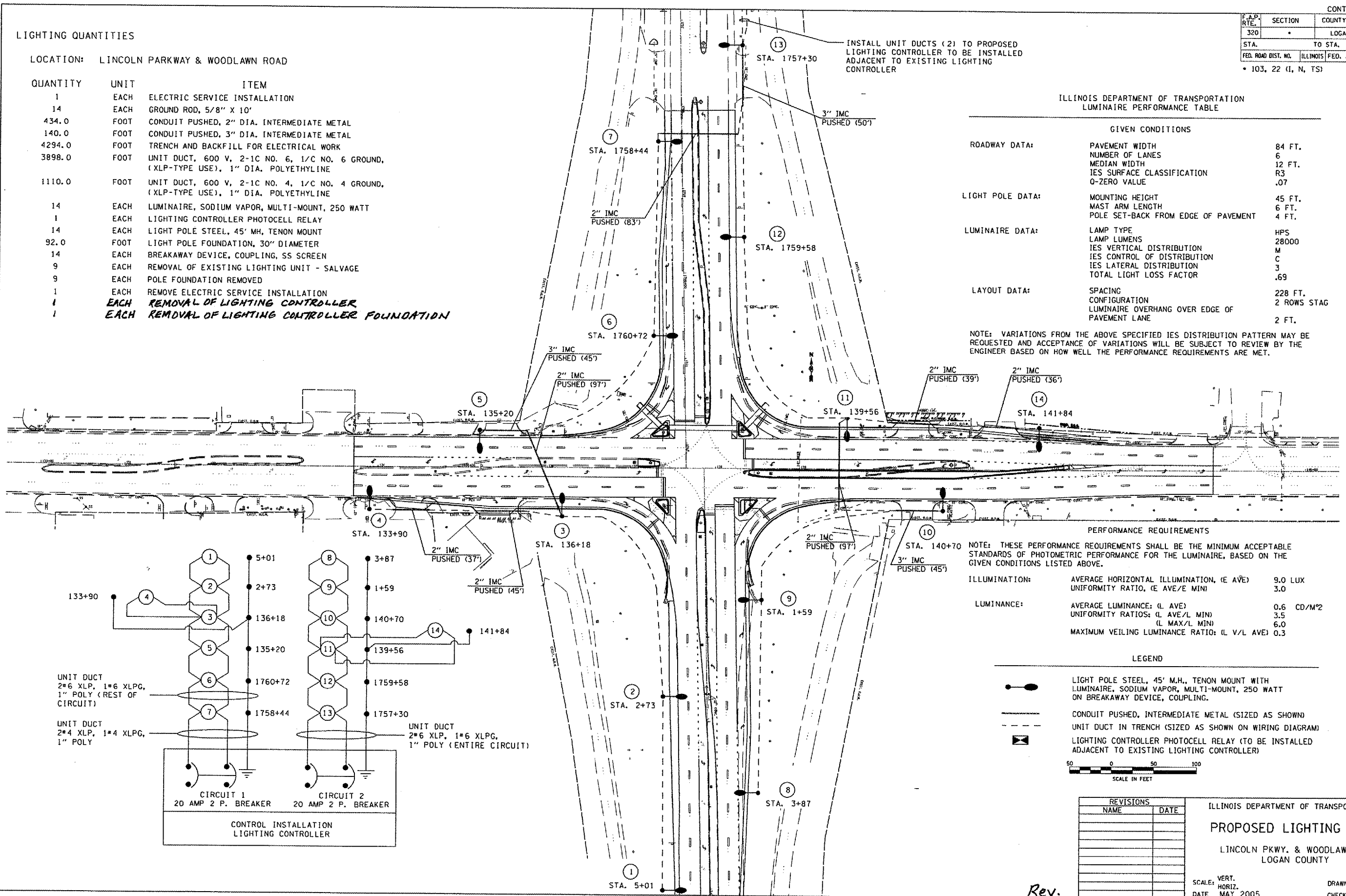


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
**PROPOSED LIGHTING PLANS**  
LINCOLN PKWY. & WOODLAWN ST.  
LOGAN COUNTY

SCALE: VERT.      DRAWN BY KDA  
          HORIZ.      CHECKED BY  
DATE: MAY 2005

Rev.



PLOT DATE: 5/20/2007  
 FILE NAME: 485328A1.dwg  
 PLOT SCALE: 1/8" = 1'-0"  
 REFERENCE: \*REF\*