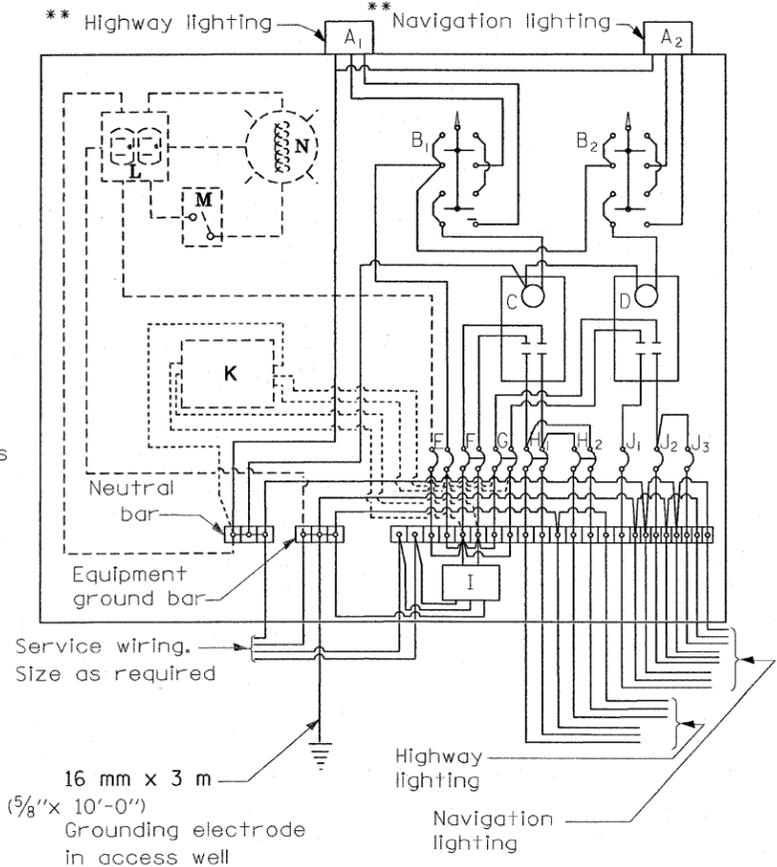
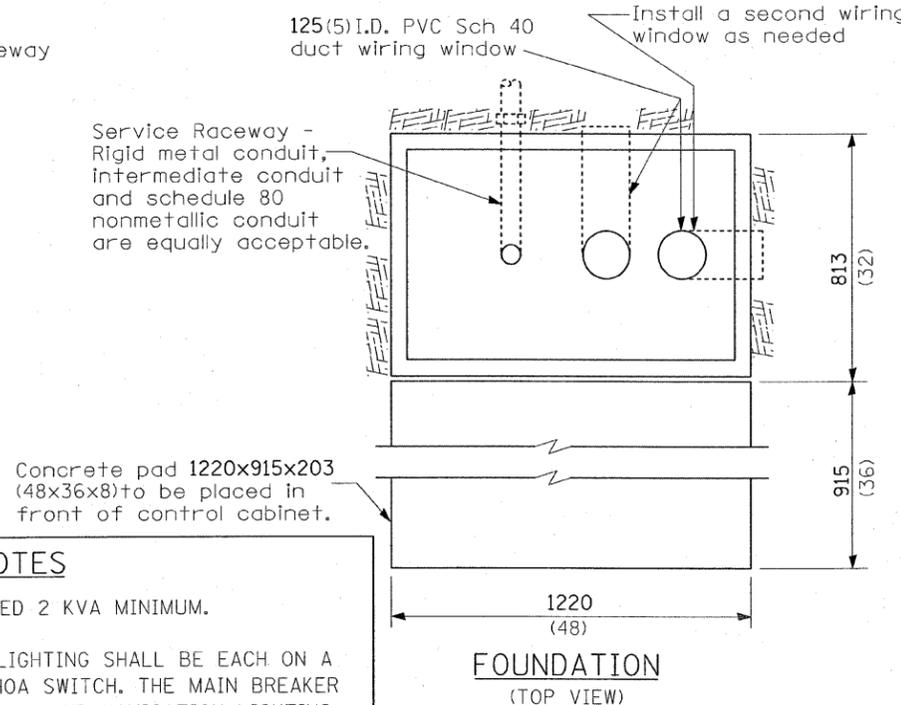
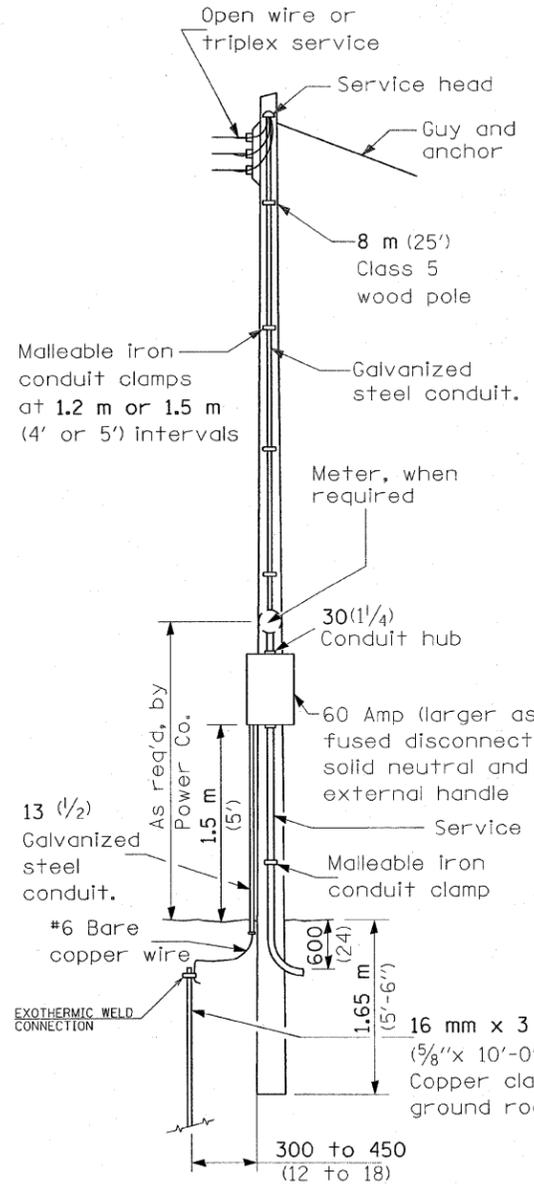
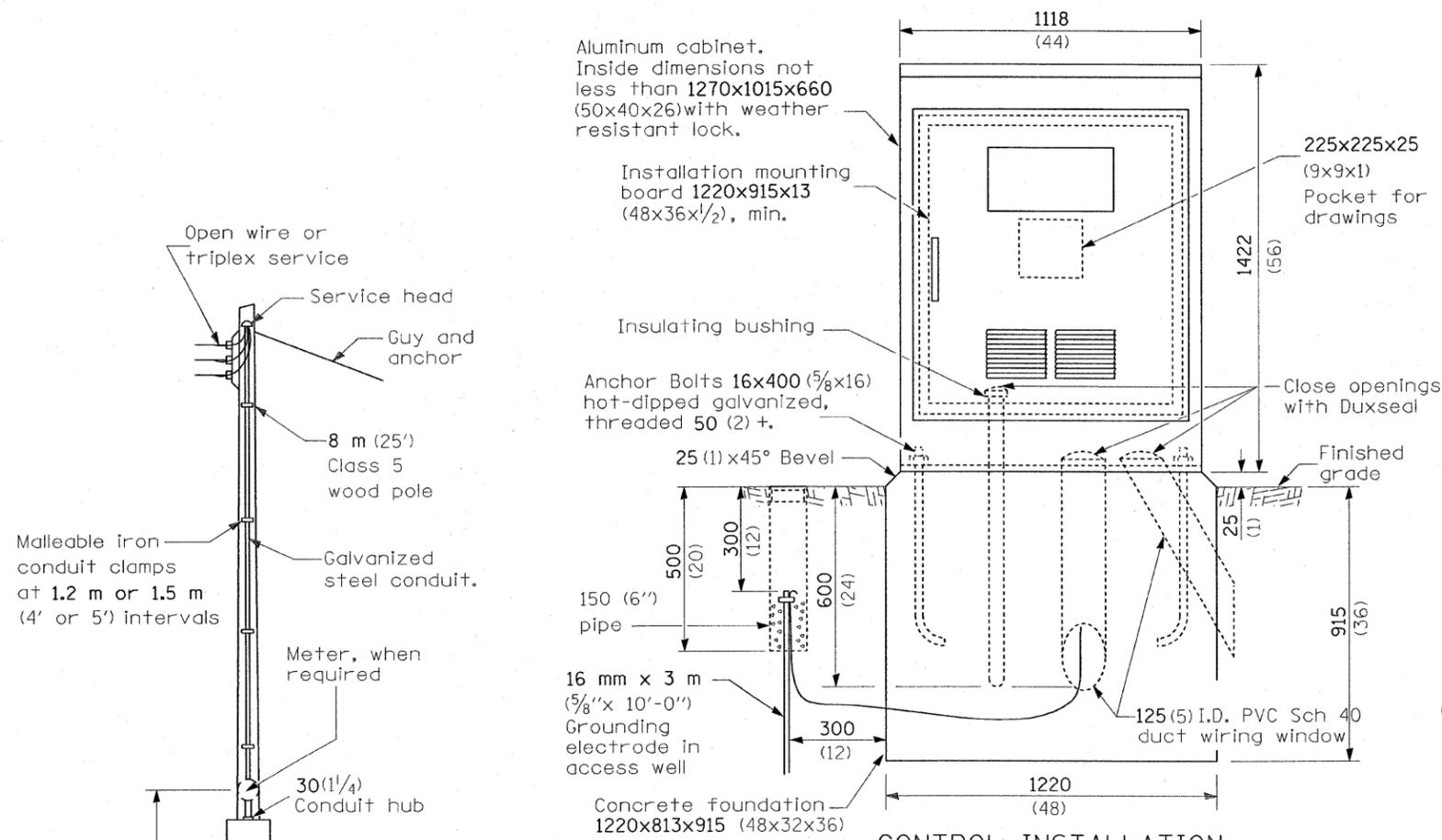


F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
270	60-(1,2)L-1	MADISON	31	18
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



- A<sub>1</sub> Photocell (remote mount)
  - A<sub>2</sub> In urban areas
  - B<sub>1</sub> 3 position selector switch
  - B<sub>2</sub> 3 position selector switch
  - C, D 60 amp\* & 30 amp\* electrically held contactors
  - E 15 amp, 1 pole, circuit breaker
  - F 60 amp\*, 2 pole, main circuit breaker
  - G 30 amp\*, 2 pole, main circuit breaker
  - H 30 amp\*, 2 pole, branch circuit breaker
  - I Surge arrester
  - J 20 amp\*, single pole circuit breaker
  - K Transformer (see notes), 1 KVA\*, 240/480V primary, 120/240V sec, single phase
  - L GFCI duplex receptacle
  - M Single pole, single throw switch
  - N Shielded security fixture with 100W lamp
- (\* = Size larger as needed)

GENERAL NOTES

This drawing depicts the basic configuration of the lighting controller. Branch circuit breakers shall be provided and oriented as required by the plan sheets and details.

Wiring shall be panel board fashion. All bends shall be right angles. All runs shall vertical or parallel to panel board. Wires shall be grouped or laced.

All control installation components shall be U.L. listed.

Label equipment ground and neutral.

Locate service pole and control installation adjacent to R.O.W. line with a minimum distance of 9 m (30') from the edge of pavement. Exact location shall be established by the Engineer.

The underground service entrance wiring shall not exceed 46 m (150'). Total aerial and underground service between the control installation and primary transformer shall not exceed 76 m (250').

Raceways shall terminate 75 (3) above top of concrete foundation.

For 480 V service, a step down transformer (dashed lines) is required.

Add receptacle, light, and switch in control cabinet.

Two (2) spare branch breakers are required but are not shown.

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

**CANAL BRIDGE CONTROLLER 2 NOTES**

1. THE STEP DOWN TRANSFORMER SHALL BE SIZED 2 KVA MINIMUM.
2. THE ROADWAY, AVIATION, AND NAVIGATION LIGHTING SHALL BE EACH ON A SEPERATE MAIN BREAKER, CONTACTOR AND HOA SWITCH. THE MAIN BREAKER AND CONTACTOR FOR THE ROADWAY, AVIATION, AND NAVIGATION LIGHTING SHALL BE RATED EACH AT 60 AMP., 60 AMP., AND 30 AMP. RESPECTIVELY.

- 240 V. SERVICE
- 480 V. SERVICE

REVISIONS	
NAME	DATE
Corrected	1/18/06

ILLINOIS DEPARTMENT OF TRANSPORTATION

**CONTROL INSTALLATION  
DUAL VOLTAGE CIRCUITS**

FAI ROUTE 270  
SECTION 60-(1,2)L-1  
MADISON COUNTY

SCALE: VERT.      DRAWN BY  
          HORIZ.      CHECKED BY  
DATE

DATE = #DATE#  
FILE NAME = #FILE#  
SCALE = #SCALE#  
REFERENCE = #REF#