

GENERAL NOTES

REINFORCEMENT BARS

1. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.

HIGH MAST LIGHT TOWER

1. The light tower shall not be erected until after the concrete has properly cured according to Article 1020.13 of the Standard Specifications.
2. After erection the tower shall be straight and centered on its longitudinal axis, under no-wind conditions, so when examined with a transit from any direction, the deviation from the normal shall not exceed $\frac{1}{8}$ inch in 3 feet within any 5 feet of height, with total deviation not to exceed 3 inches from the vertical axis through the center of the tower base.
3. The gap between the foundation and the base plate shall be enclosed with a stainless steel screen fastened with a stainless steel band. Existing hardware may be reused with approval from the Engineer.
4. Any damage to the protective coating on the pole shall be repaired.
5. Orientation of pole and luminaire shall remain as in current position.

CONCRETE

1. The top of foundation shall be constructed level and all sides chamfered $\frac{3}{4}$ ".
2. See sheets 11 and 12 of 19 for concrete rustication details. Contractor is responsible for matching the proposed concrete surface finishes with existing conditions. Cost included with Concrete Structures.

ANCHOR RODS

1. Anchor rods shall be straight (vertical) and shall be according to AASHTO M 314 or ASTM F1554, Grade 105 and galvanized according to Article 1006.09 of the Standard Specifications.
2. Anchor rods and raceways shall be properly secured in place before the concrete is in place. Misaligned anchor rods shall be cause for rejection and the foundation shall be replaced at the Contractor's expense. No adjustment shall be allowed after the concrete has cured.
3. Anchor rods shall project 9" min. above top of foundation concrete.
4. Anchor rod information shall be submitted for approval by the Engineer.
5. Two anchor rods opposite each other shall have their threads peened after nuts are installed.
6. Existing anchor rods, nuts, and washers shall not be incorporated into new construction.
7. Leveling nuts should be in a horizontal plane and adjusted prior to erecting the pole.
8. Anchor rod nuts for all towers shall be a self-locking type with steel inserts.

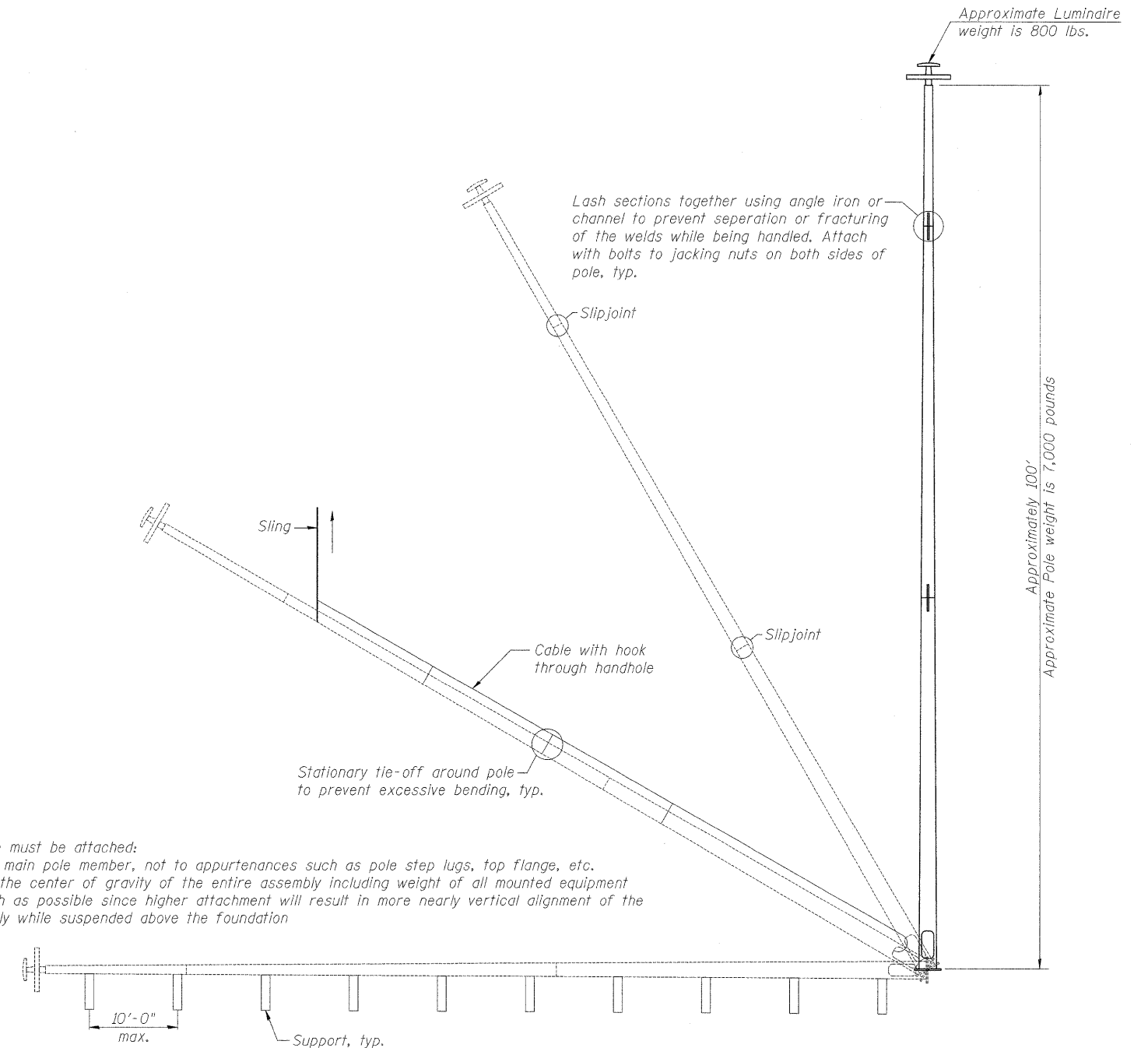
UTILITIES

1. Contractor is responsible for locating and coordinating all utility related activities.

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)



Lifting crane must be attached:

- a. to the main pole member, not to appurtenances such as pole step lugs, top flange, etc.
- b. above the center of gravity of the entire assembly including weight of all mounted equipment
- c. as high as possible since higher attachment will result in more nearly vertical alignment of the assembly while suspended above the foundation

TOWER TAKE-DOWN & ERECTION GUIDELINES

(The procedure above is intended to be a helpful guide to the Contractor. This information is not comprehensive. Therefore it is essential that the Contractor carefully plan all aspects of the process and not solely rely on these guidelines. Due to the varied methods used by the Contractor in actual field operations, only the Contractor is responsible for structural damage occurring during take-down and erection. See Special Provisions for more details.)



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|--------------|----------------|-----------|
| 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**

**GENERAL DATA
 6POP2, 6POP4, & 5RMN5**

| | | | | |
|---------------------------|------------|--------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90/94 | 2011-021-L | COOK | 19 | 4 |
| CONTRACT NO. 60P16 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |