

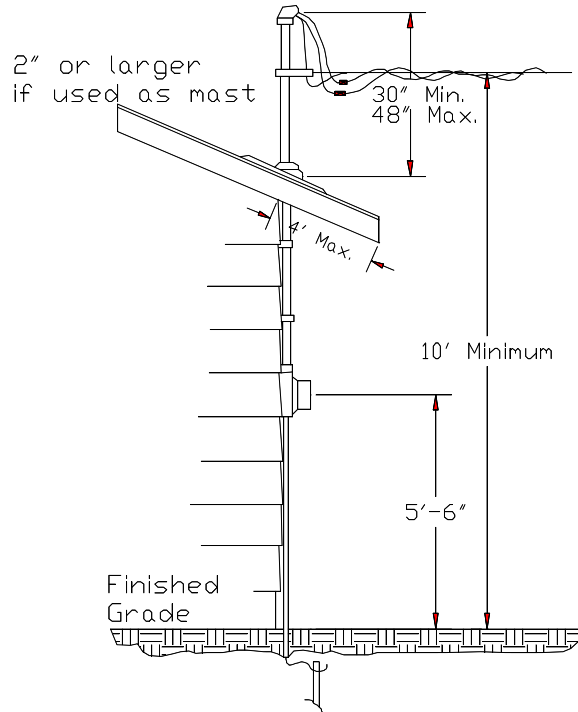
**City of Highland, Illinois
OVERHEAD Service Installation
Through-The Roof
0 – 200 AMP, 240 volts and under**

The City will install, own and maintain:

1. Overhead cable service
2. Cable dead end
3. Compression type connector

The customer shall install, own and maintain:

1. Galvanized rigid steel conduit service mast (2" min) with roof mounting plate flashing and storm collar. Mast must be securely bridged between rafter. (See note)
2. Conduit hangers. On cinder block, brick veneer, or similar wall hangers must be bolted through the wall
3. Minimum 8' x 1/2" driven copper plated ground rod
4. 1/2" conduit from meter to 6" below grade with copper wire to ground rod
5. Rain tight service head
6. Meter socket



Recommended Sizes:

| Service | Conductor | Conduit | Bonding Wire |
|---------|------------|---------|--------------|
| 100 Amp | #3 Cu | 1-1/2" | #6 Cu |
| 200 Amp | 3/0 Cu | 2" | #4 Cu |
| 400 Amp | 500 KCM Cu | 3" | 1/0 Cu |

NOTES:

The installation of all conductors, conduit and service entrance equipment must conform to local and national electrical code.

The mast must be located to provide adequate clearances for the utility overhead service cable.

The neutral must be bared or marked at weatherhead and must be continuous through meter socket.

Approximately 24" of conductor must extend beyond weatherhead.

Inside conduit edges must be reamed and smooth.

Heavy walled plastic conduit may be used from meter base to service panel/main disconnect.

A bonding wire is required when heavy walled plastic conduit (Schedule 80) is used from the meter base to the main disconnect.