

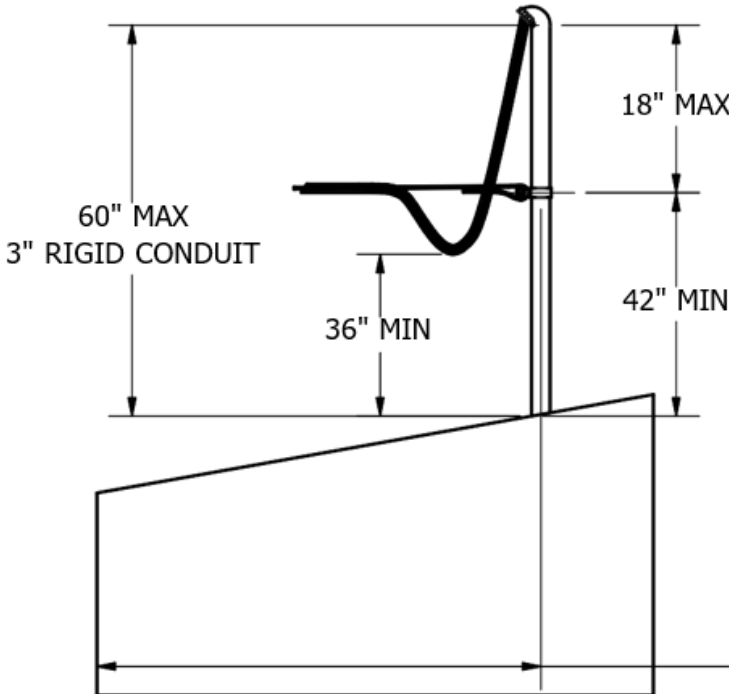
18 INCH MINIMUM CLEARANCE ABOVE ROOF INCLUDING SERVICE WIRES AND DRIP LOOP

CONDUIT SHALL BE GALVANIZED RIGID METAL CONDUIT OR EQUIVALENT PER CURRENT NEC CODE

**REQUIRED IF BOTH OF THE FOLLOWING APPLY:**

SERVICE MAST LESS THEN 4 FOOT FROM ROOF EDGE.

WEC SERVICE WIRES CROSS LESS THEN 6 FEET OF ROOF LINE.



36 INCH MINIMUM CLEARANCE ABOVE ROOF INCLUDING SERVICE WIRES AND DRIP LOOP

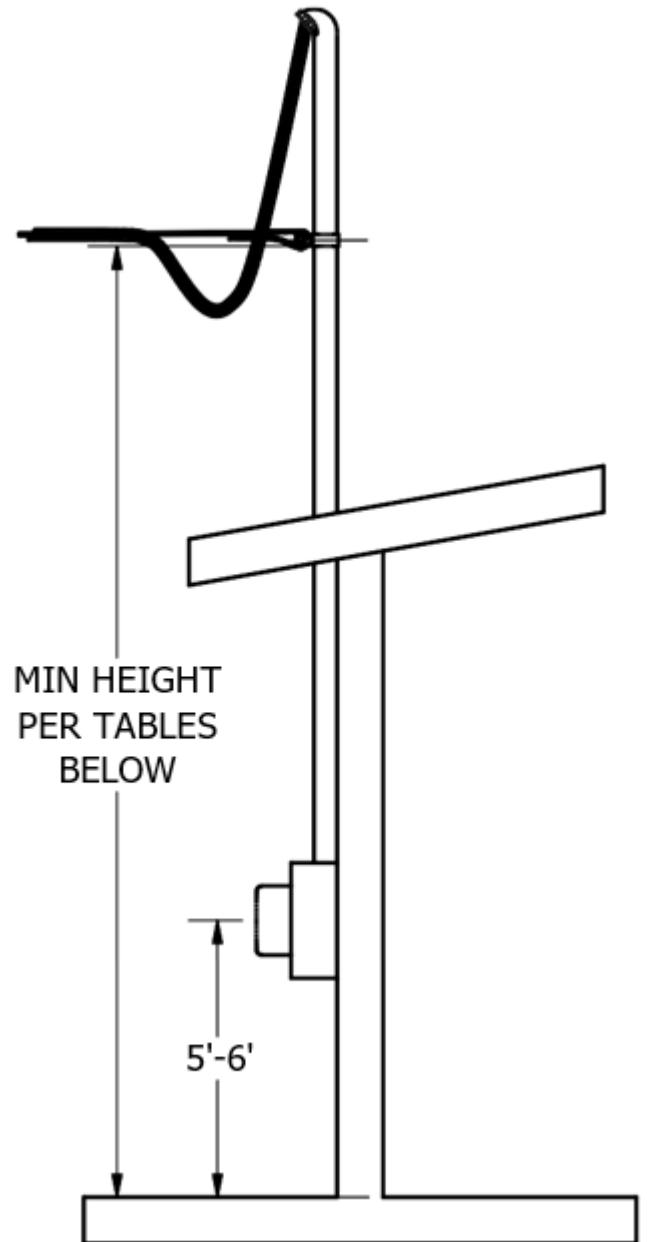
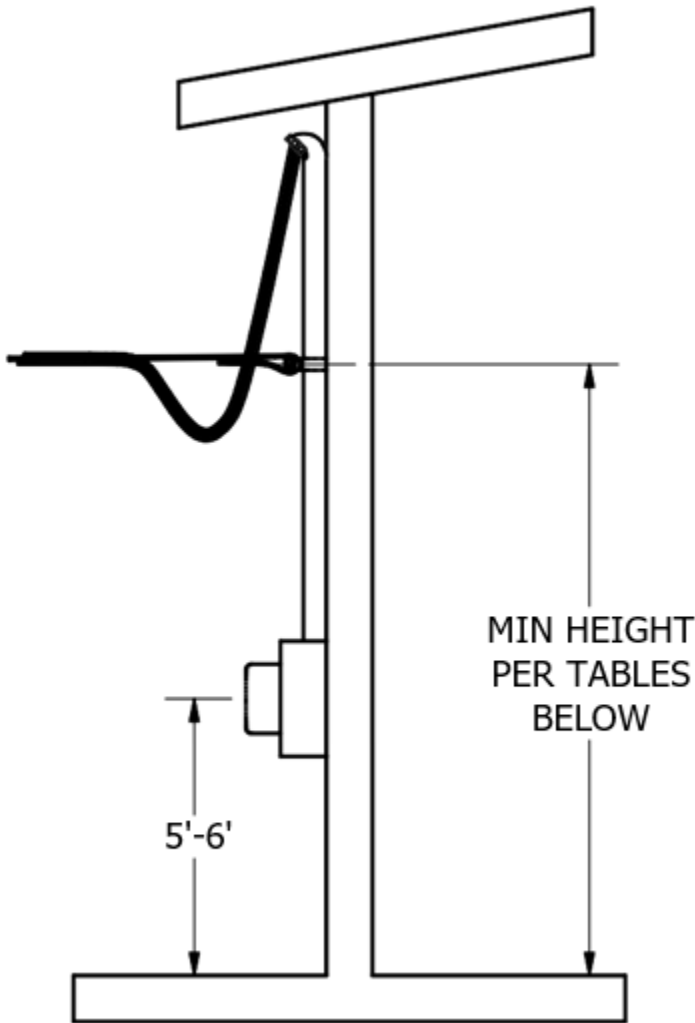
CONDUIT SHALL BE GALVANIZED RIGID METAL CONDUIT OR EQUIVALENT PER CURRENT NEC CODE

**REQUIRED IF EITHER OF THE FOLLOWING APPLY:**

SERVICE MAST MORE THEN 4 FOOT FROM ROOF EDGE.

WEC SERVICE WIRES CROSS MORE THEN 6 FEET OF ROOF LINE.

IF ATTACHMENT HEIGHT REQUIRES MORE THE 60 INCHES OF MAST ABOVE ROOF THEN A METER POLE SERVICE IS REQUIRED



HEIGHTS IN THE ABOVE TABLES ARE THE MINIMUM REQUIRED.

1 FOOT ADDITIONAL HEIGHT REQUIRED FROM TELEVISION/COMMUNICATIONS CABLES NEAR  
POINT OF ATTACHMENT.

Warren Electric Cooperative  
Youngsville, PA  
800-364-8640

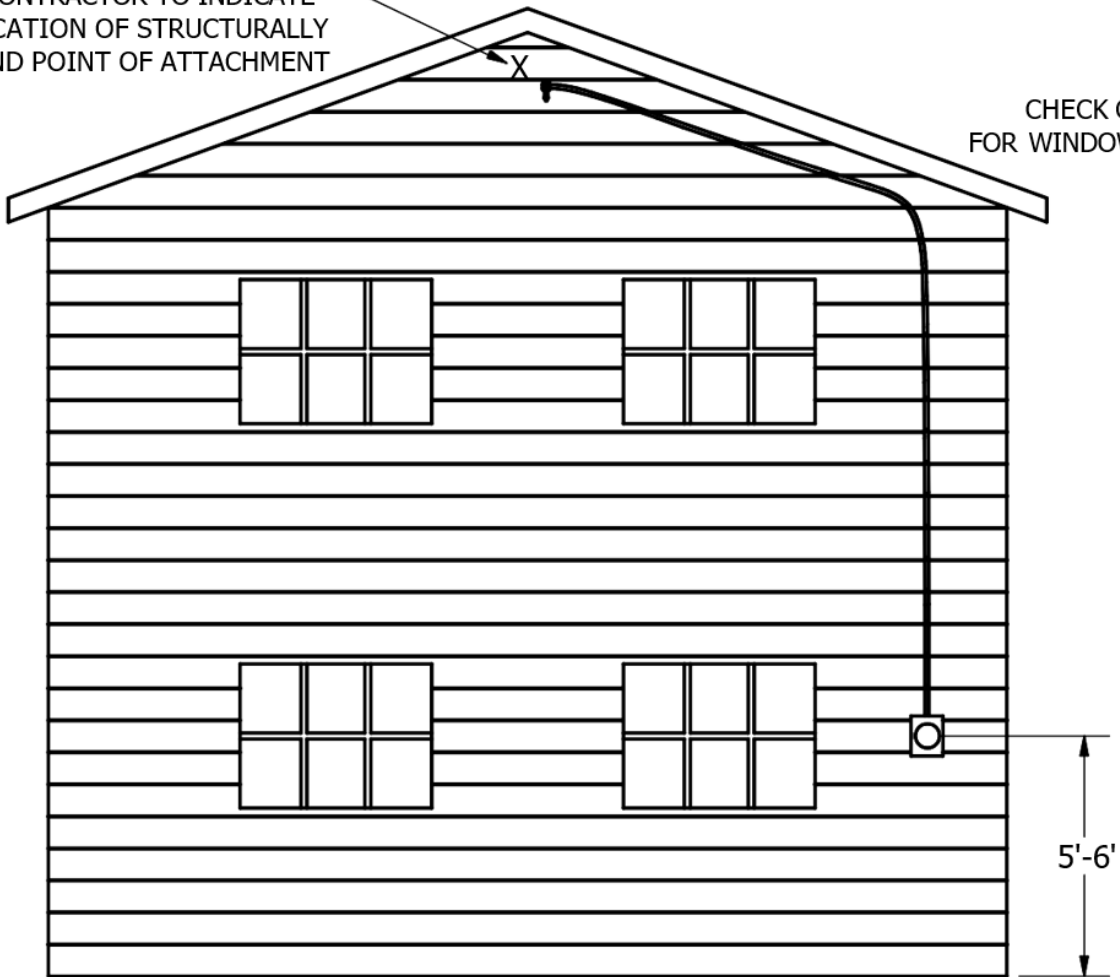
DWG No.: WEC-SVC-MAST  
120/240V Single Phase Service on Structure up to 320 AMP  
Roof Top Clearance Heights

Effective Date: 11/1/2025

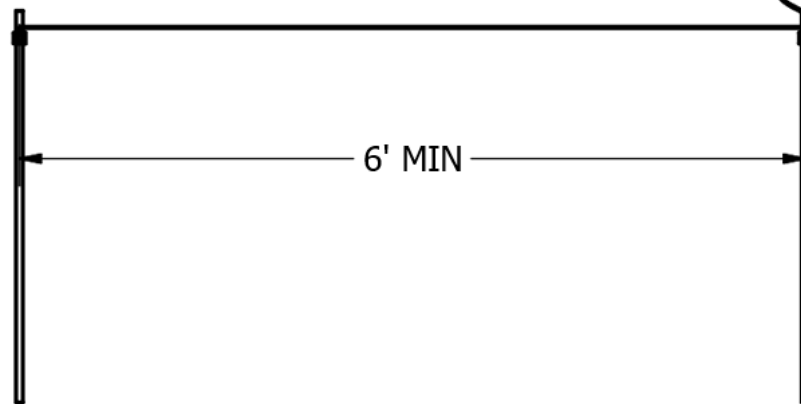
## MULTI-STORY UNDER-EAVE MOUNT

MEMBER/CONTRACTOR TO INDICATE  
WITH AN 'X' LOCATION OF STRUCTURALLY  
SOUND POINT OF ATTACHMENT

CHECK CURRENT CODE  
FOR WINDOW CLEARANCES



GROUNDING ELECTRODE CONDUCTOR  
TO SERVICE PANEL/DISCONNECT



(2) 5/8" X 8' COPPER CLAD GROUND RODS

## LOCATION

- A WEC Staking Engineer will determine the location and any additional requirements during an on-site meeting with the member during the design process.
- Services are not permitted within the WEC easement and must be at least 30 feet away from any WEC poles, wires and anchors.
- Service may not cross over propane tanks, oil wells, swimming pools and other obstacles because of safety code requirements.
- Manufactured housing units shall refer to NEC 550 for additional requirements

## SERVICE MAST

- Only WEC attachments are allowed on mast.
- Structural reinforcement and flashing (mast roof kit) at roof line is required.
- If WEC service wires must cross more than 6 feet of roof and/or attachment is more than 4 feet from edge of roof, service mast must extend a minimum of **60 inches** above roof. **If more than 60 inches is needed for clearance, a meter pole service is required**
- If WEC service wires must cross less than 6 feet of roof and attachment is less than 4 feet from edge of roof, service mast must extend a minimum of **42 inches** above roof. **If more than 60 inches is needed for clearance, a meter pole service is required**

## WEATHER HEAD

- 3 wire rain-tight weather head properly sized and rated will be installed on top of conduit.
- Member/Contractor shall leave 2 to 3 feet of wire from weather head for WEC to make connections.

## CONDUIT

- Galvanized rigid metal conduit or equivalent per current NEC code.
- When pipe riser is 10 feet or less, no coupling is permitted. When longer than 10 feet, a coupling shall be installed at joint closest to meter socket.
- Pipe straps (3 minimum) shall be installed at uniform intervals to secure conduit to structure.
- Pipe strap lag bolts shall go into wall studs and/or sound structural members.

MINIMUM SERVICE AND GROUND CONDUCTOR REQUIREMENTS				
RATING (AMPS)	CONDUIT SIZE MIN	WIRE MATERIAL	LINE/NEUTRAL SIZE	GROUND SIZE
320	3"	COPPER (CU)	250 MCM	#2 AWG CU
320	3"	ALUMINUM (AL)	350 MCM	#2 AWG CU
200	2"	COPPER (CU)	2/0 AWG	#4 AWG CU
200	2"	ALUMINUM (AL)	4/0 AWG	#4 AWG CU
100	2"	COPPER (CU)	#4 AWG	#6 AWG CU
100	2"	ALUMINUM (AL)	#2 AWG	#6 AWG CU

All service conductors shall have insulation suitable for the applied voltage but, in any case, not less than 600 volts and sized to rated load of meter base.

## METER BASE

- Meter base shall be located between 5ft and 6ft from ground level.
- Meter base shall be a single position, four terminal, and ring-less with a horn or other approved type bypass.
- Meter bases equipped with grounding lugs shall be grounded in accordance to NEC or local inspection authority.
- WEC Recommends using an anti-oxidation grease inside the meter base if using aluminum conductors.

## DISCONNECT OPTIONS AND OTHER SERVICE EQUIPMENT REQUIREMENTS (NEC 230)

- All sites served by WEC shall have an Emergency / Service disconnecting means installed in a readily accessible outdoor location. (Per NEC 230)
- The outdoor disconnecting means shall be marked as EMERGENCY DISCONNECT. ( Per NEC 225.41)
- Disconnect main shall be appropriately sized (breaker or K1 fuses rated for 10,000 Amperes)
- Weather-Tight connectors and fittings shall be used between outside equipment and components.
- All equipment (meter base, disconnect, etc) shall have all knock-outs, doors, and covers in place to limit access to energized parts and shall be in good physical and working condition.

## GROUNDING RODS, WIRE, AND CONNECTORS (NEC 250)

- Meter socket shall be grounded in accordance to NEC and local inspection authority requirements
- Any service connected to WEC shall have two (2) 5/8 in. x 8ft. copper clad ground rods or equivalent per current NEC code, located at minimum of 6ft. apart.
- Ground rod clamps shall be suitable for direct burial and/or exothermic welding.
- Ground wires shall extend unbroken or uncut from grounding lug of disconnect to each rod.
- Ground wires shall be secured to structure.

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120/240V Single Phase Service on Structure up to 320 AMP  
Detailed Specifications

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