



Why Choose Valmont?



For more than 30 years, Valmont has offered steel and aluminum structures to meet the most demanding sports lighting requirements. We have built our reputation on a company-wide commitment to customer service, innovation and cost control. Most importantly, we put our experience, understanding of specifications and standards, and reputation for excellence into everything we design and manufacture.

Valmont's aerodynamic tubular cage and crossarm sports lighting designs are an industry standard. Architects, engineers and contractors from around the world have depended on our standard and custom designs for decades.

Our sports lighting designs are:

- Up to 250 feet in height.
- Offered with a traditional anchor base design or optional embedded design.
- Available pre-wired for cages and crossarms.
- Available with safety cables and steps.
- Galvanized or painted finish. For added durability, choose finish paint over galvanizing.



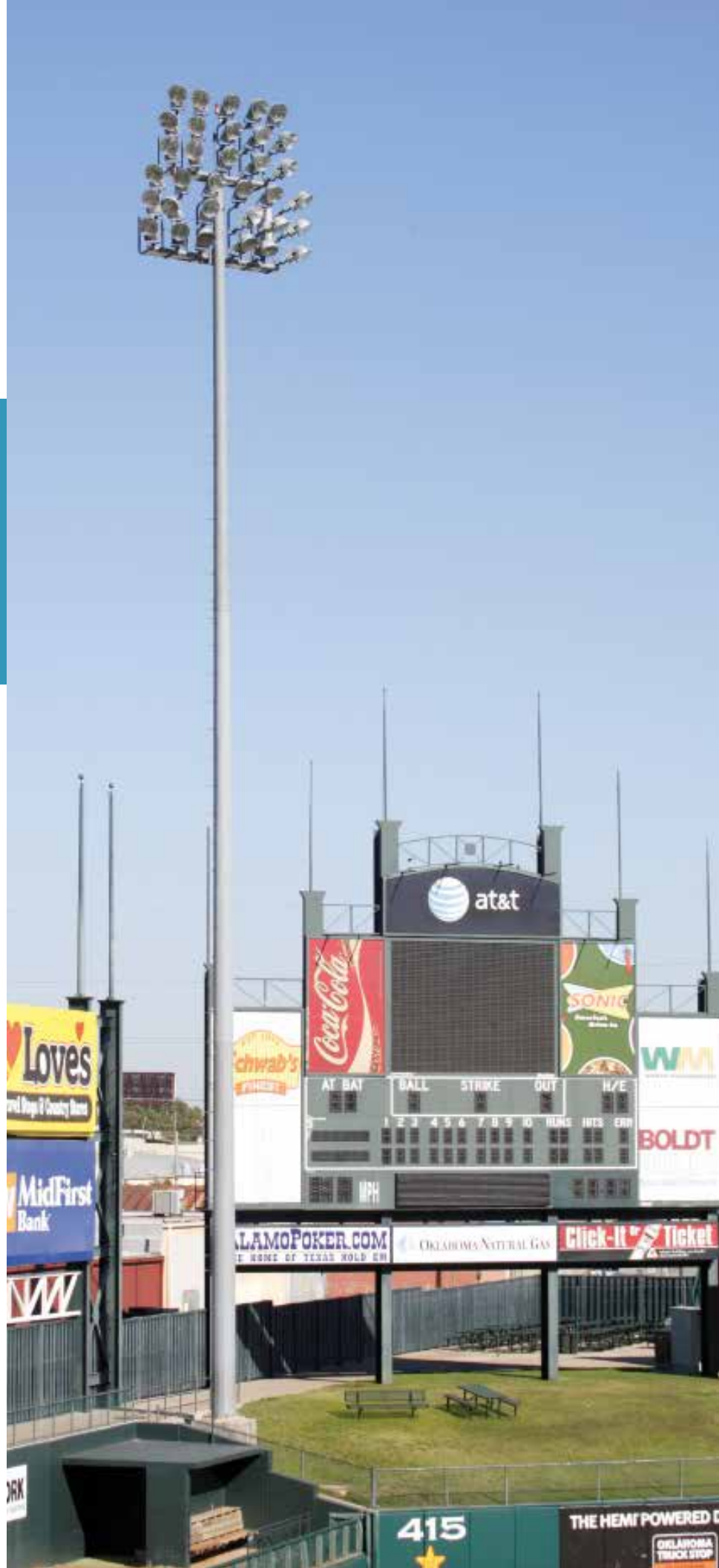
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What can we do that our competitor can't? Simply stated, our engineering capabilities are what set us apart from the competition.

Meeting the needs of you, our customer, is our top priority. No matter how large or small your order, whether it's standard product or specially designed to meet your requirements, our focus is to provide a quality product, to deliver that product on time and per your standards, and ultimately, to be your reliable sports lighting partner.

Whether you're lighting your neighborhood soccer field or your city's arena, Valmont offers your complete lighting structure solution.



SPORTS LIGHTING ORDER CHECKLIST

FIXTURE MOUNTING HEIGHT

_____ ft. (Cages = Middle Row of Lights; Crossarms = Top Row)

DESIGN DATA

_____ Design Criteria (eg., Valmont. AASHTO 1994, AASHTO 2001, etc.)

_____ Design Isotach Wind Speed (MPH before gust)

_____ Fixture Make and Model

_____ Fixture Weight

_____ Fixture E.P.A

_____ Qty of Fixtures – forward facing

_____ Qty of Fixtures – reverse facing

POLE TOP

- Cages
- Tubular Crossarms
- Angle Iron Crossarms
- Bullhorns

BASE STYLE

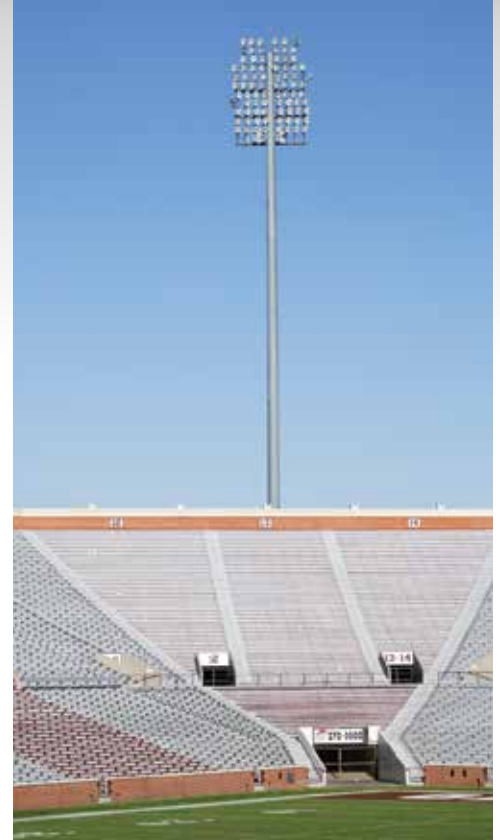
- Anchor Base
 - Embedded
- Embedment depth (if known): _____

FINISH

- Galvanized
 - Finish Paint
 - Finish Paint over Galvanized
- Valmont Standard Color: _____
- Special Color (provide chip/color number): _____

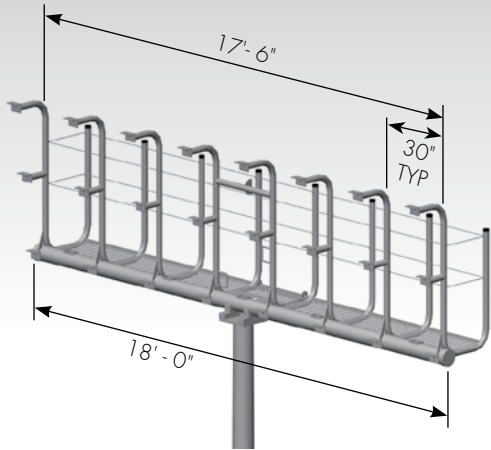
ACCESSORIES

- Steps and Safety Cable (not recommended for crossarm applications)
 - Personal Safety Harness
 - Pre-wiring of Cages / Tubular Crossarms
 - Speaker Mounting Plates (Please specify requirements)
 - Additional Flood Lighting Mounting (Please specify requirements)
 - Couplings
- Size and location (if known): _____
- Other _____

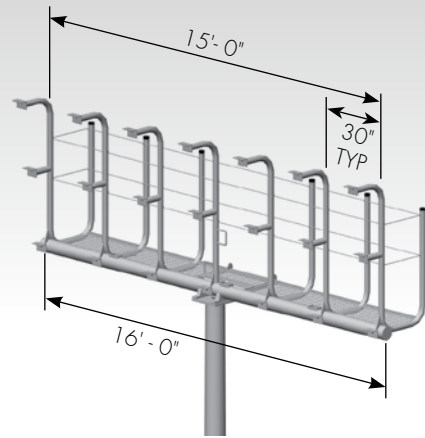




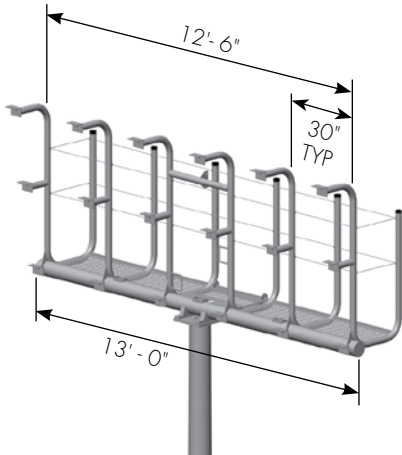
CAGED PLATFORMS



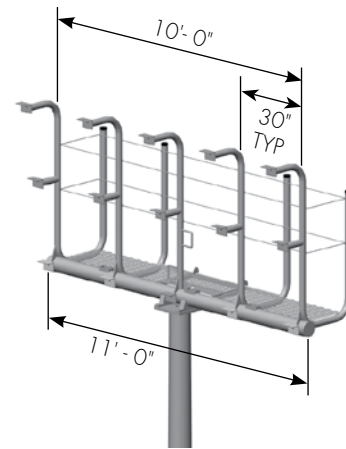
X24 CAGE
(24 Luminaires)



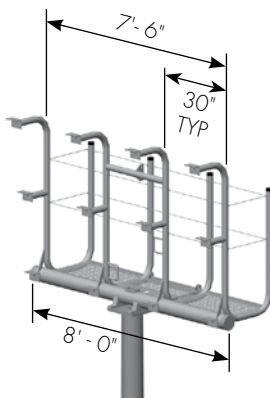
Y21 CAGE
(21 Luminaires)



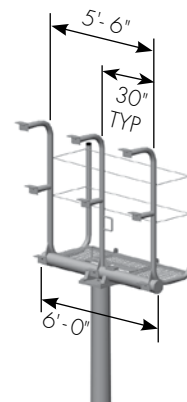
A18 CAGE
(18 Luminaires)



T15 CAGE
(15 Luminaires)

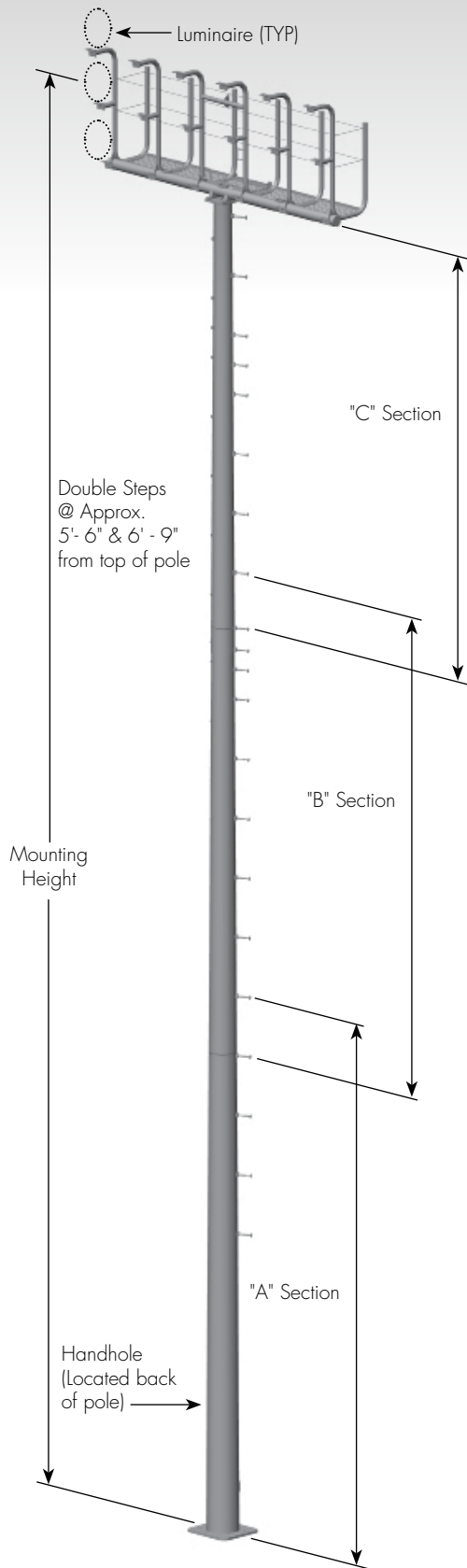


B12 CAGE
(12 Luminaires)

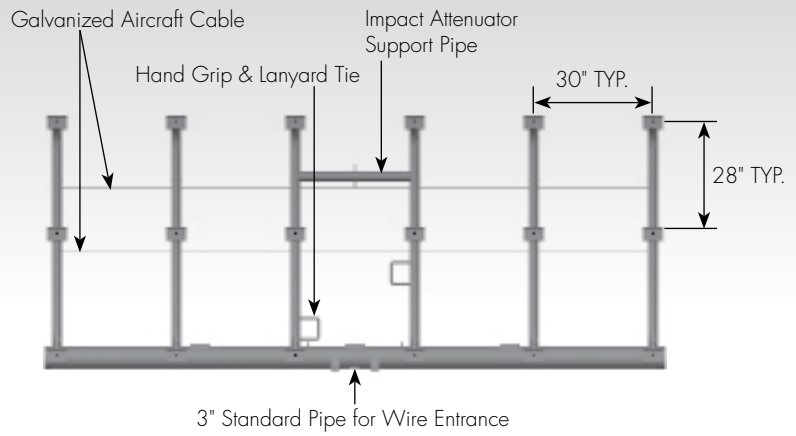


W9 CAGE
(9 Luminaires)

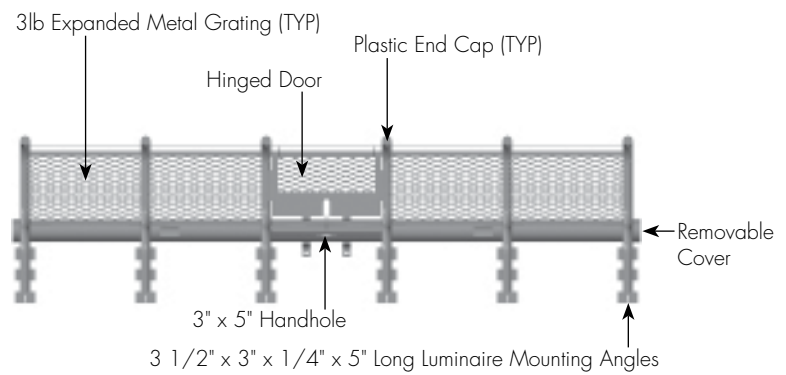
CAGE AND POLE



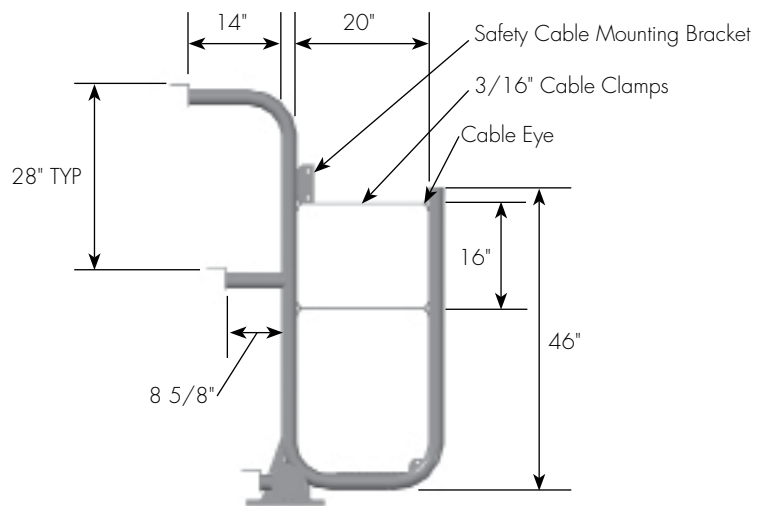
CAGE AND POLE



FRONT VIEW

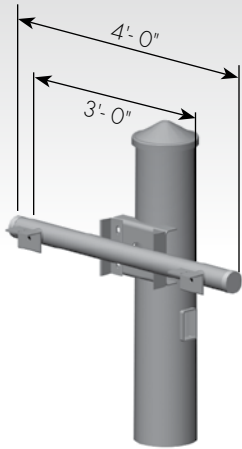


TOP VIEW

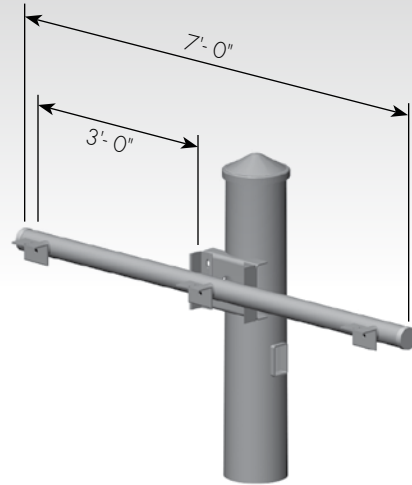


SIDE VIEW

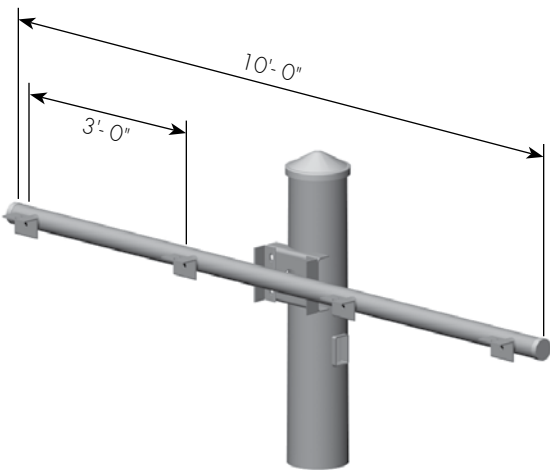
TUBULAR CROSSARMS



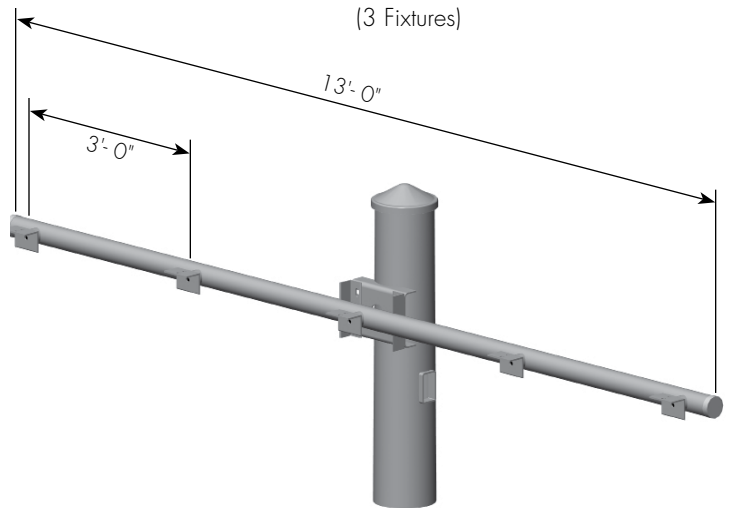
CR2
(2 Fixtures)



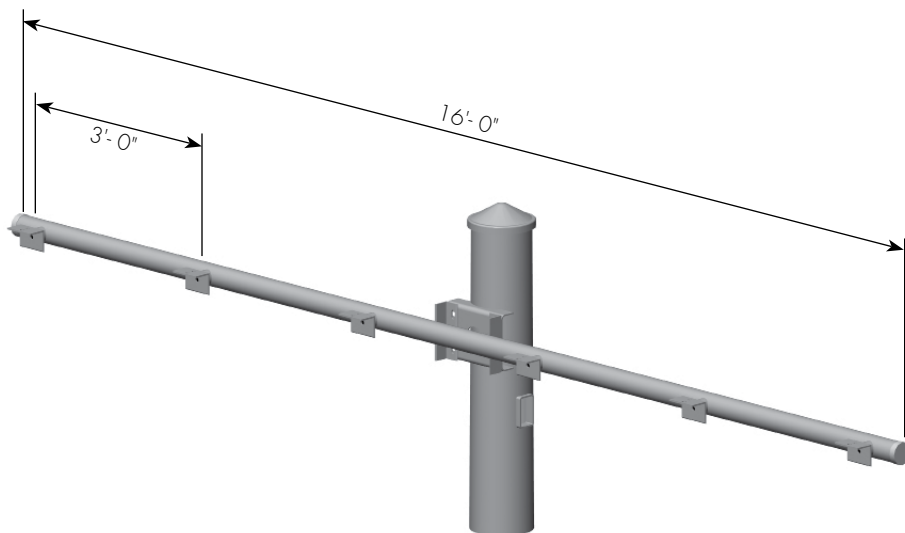
CR3
(3 Fixtures)



CR4
(4 Fixtures)

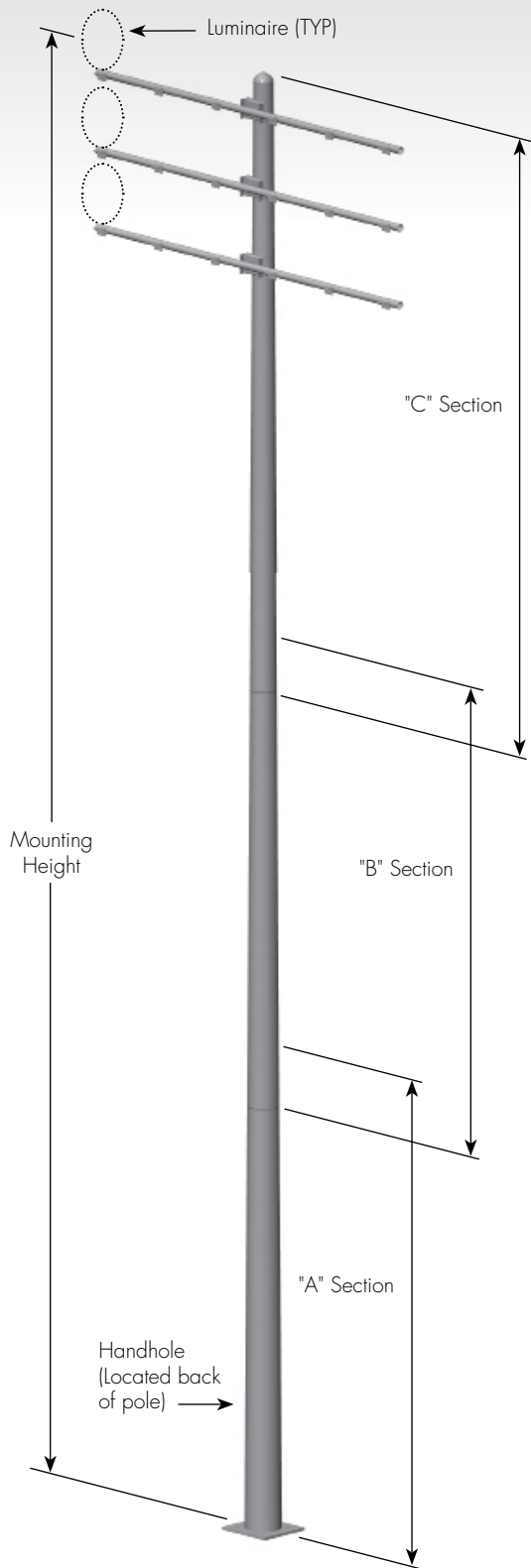


CR5
(5 Fixtures)

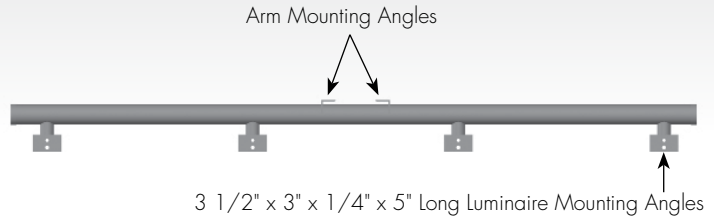


CR6
(6 Fixtures)

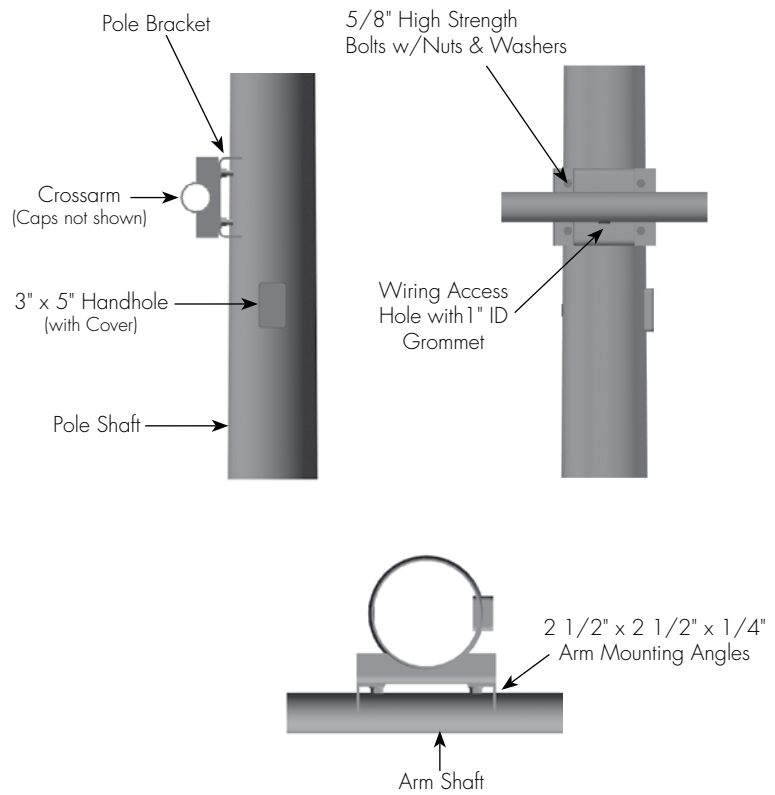
TUBULAR CROSSARM AND POLE



CROSSARM AND POLE

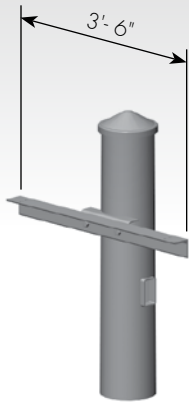


CROSSARM DETAIL
TOP VIEW

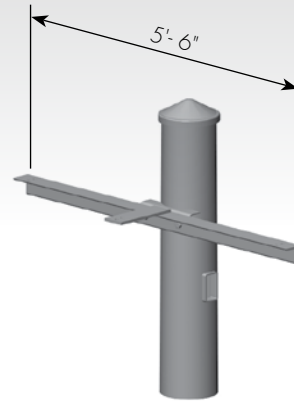


CROSSARM MOUNTING DETAILS

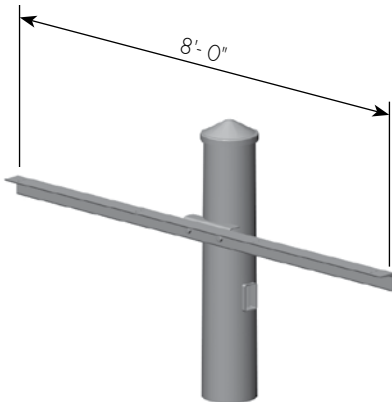
ANGLE IRON CROSSARMS



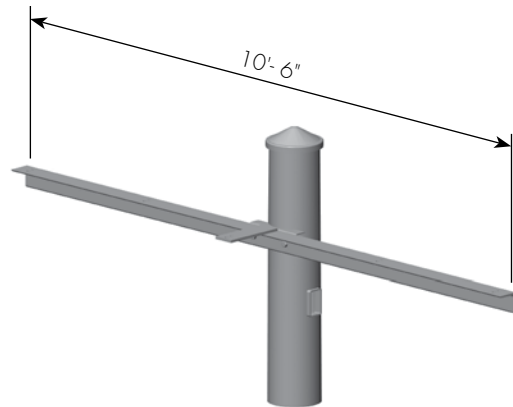
ACR2
(2 Fixtures)



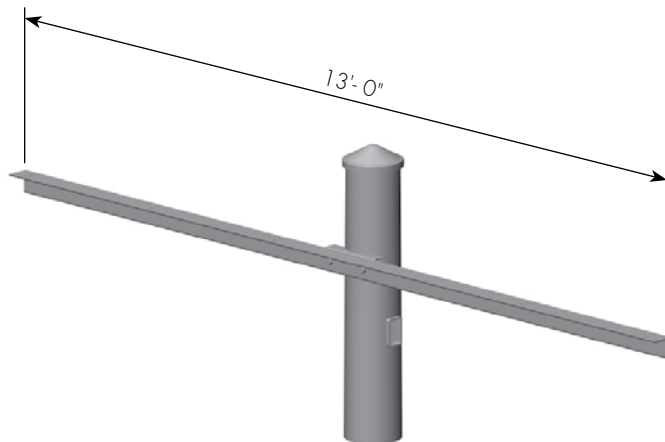
ACR3
(3 Fixtures)



ACR4
(4 Fixtures)



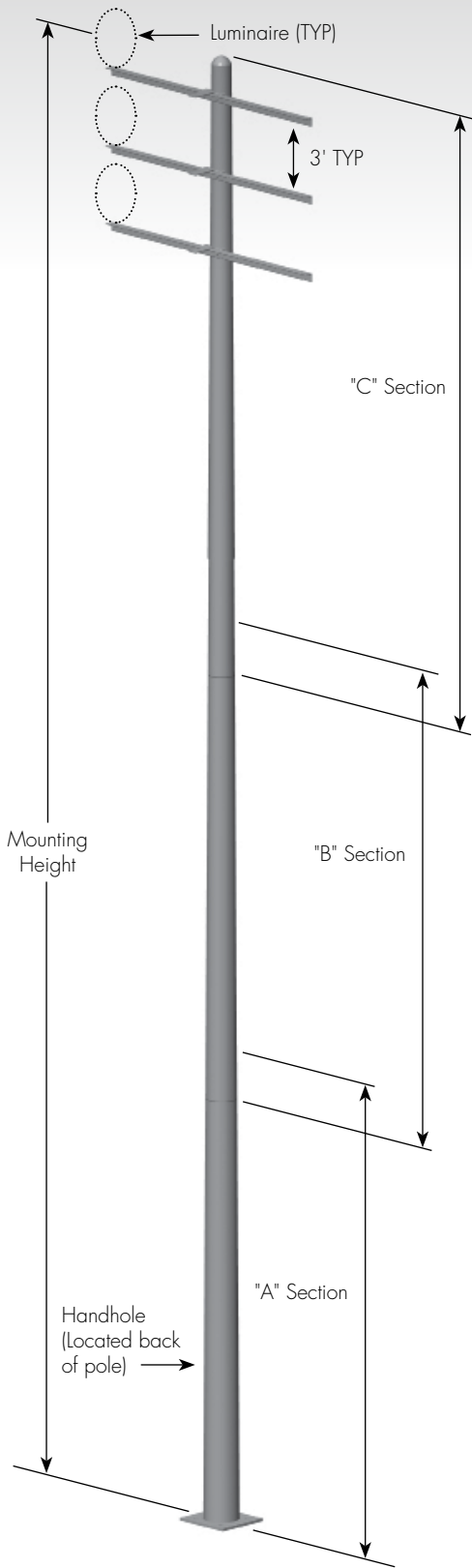
ACR5
(5 Fixtures)



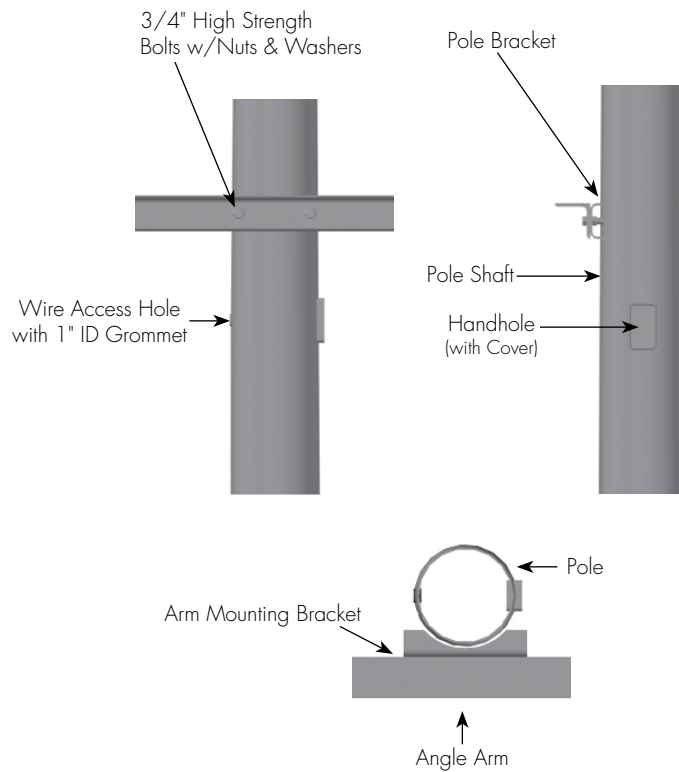
ACR6
(6 Fixtures)

Note: ACR2 Fixture Drillings Spaced 36" on Center
All Others: Fixture Drillings Spaced 30" on Center

ANGLE IRON CROSSARM AND POLE

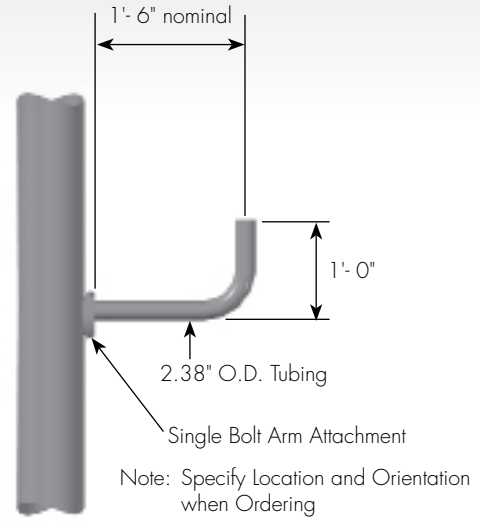
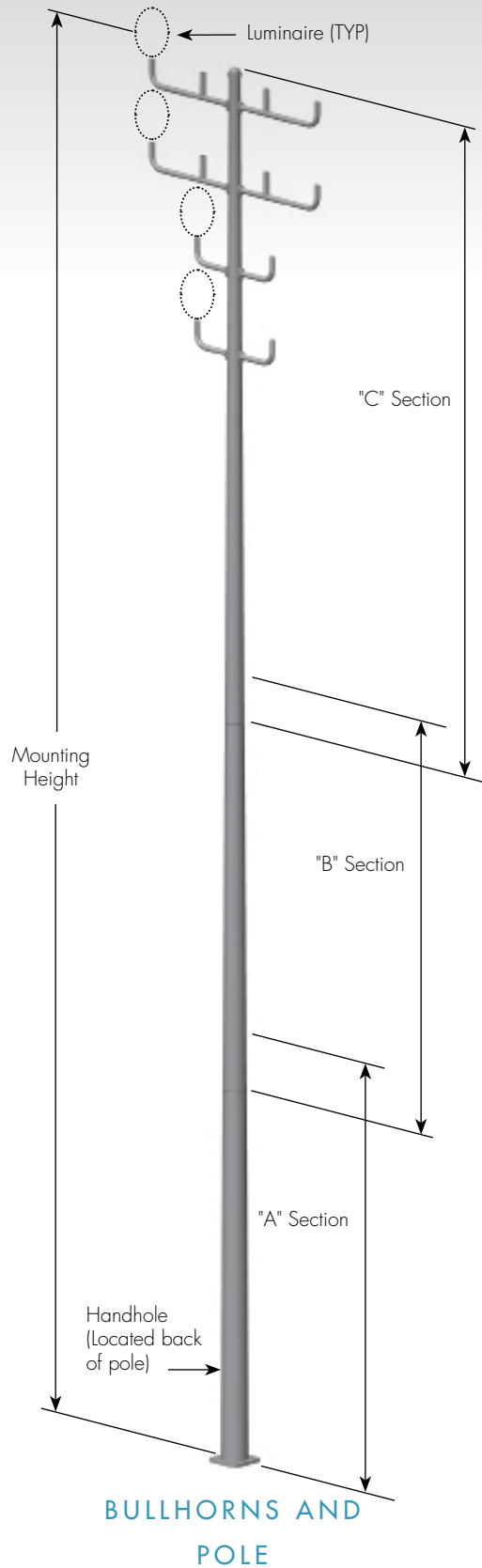


CROSSARM AND POLE

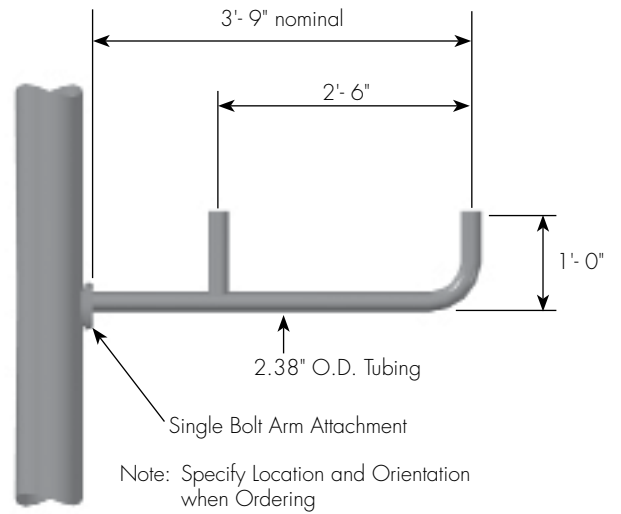


ACR MOUNTING DETAILS

BRACKET ARMS – BULLHORN

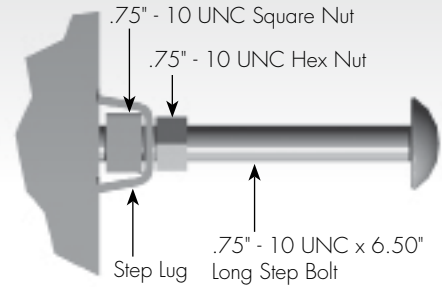
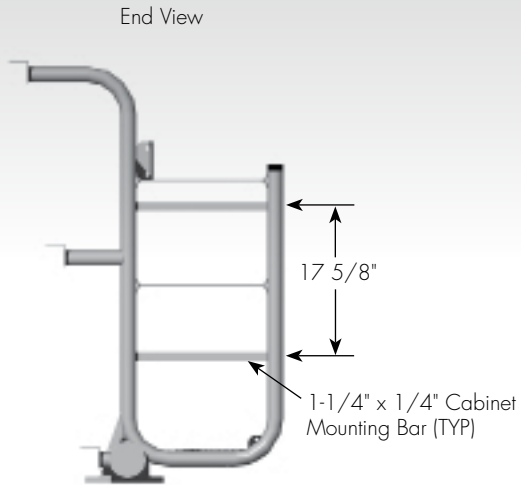


M080 ARM

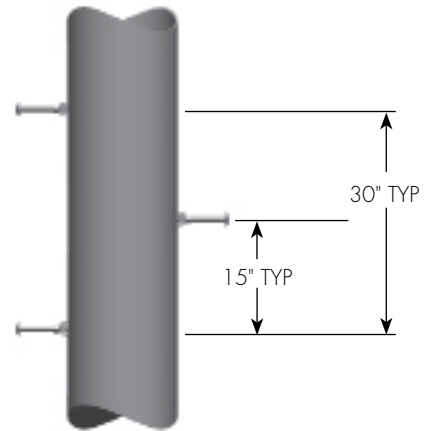


M082 ARM

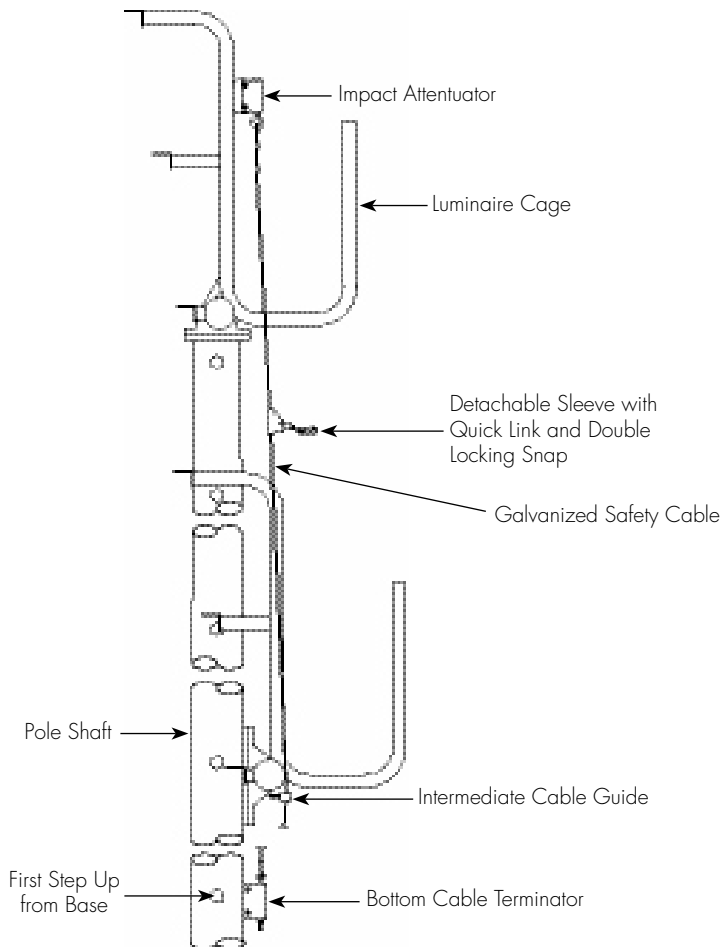
ACCESSORIES



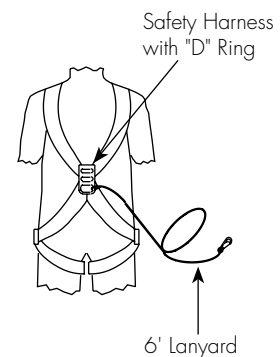
CONTROL PANEL - CAGE MOUNT



REMOVABLE POLE STEPS



SAFETY CABLE CLIMBING DEVICE



SAFETY HARNESS



CAGED LUMINAIRE SERVICE PLATFORM

Platforms are made of tubular members to effectively reduce the wind drag. The cage consists of at least one horizontal steel supporting member, a minimum of 5½" O.D. 10 gauge material, and vertical luminaire supports of 2" schedule 40 pipe. All angles conform to ASTM designation A36. The vertical luminaire supports are available with horizontal angle luminaire support with holes to accommodate luminaire adapter plates or pipe tenons to accommodate specific size slipfitters. All pipe and tubing components are 36 KSI minimum yield strength.

The platform is a cage with vertical members, minimum 46" in height with two horizontal 3/16" diameter, 7 x 19 galvanized aircraft cables for enclosure and safety support of maintenance person. The floor is expanded metal grating. The floor incorporates a hinged door allowing for access to the cage and is capable of closing prior to uncoupling of climbing safety device.

The entire basket is capable of internal wiring from the pole shaft to the luminaire mounting supports. The pole top mounting bracket has internal drip shielding for wire entrance.

CROSSARM FOR LUMINAIRES

The crossarms are made of tubular members to effectively reduce wind drag. The crossarm consists of horizontal main members of 3½" O.D. schedule 40 pipe. All angles conform to ASTM designation A36. Horizontal, angle luminaire supports have holes to accommodate luminaire adaptor plates or pipe tenons to accommodate specific size slipfitters. Luminaire mounting angle supports are attached to the main member of 2" schedule 40 pipe. All pipe members and tubing components are 36 KSI minimum yield strength.

The crossarm is bolted to the pole shaft with 2½" x 2½" x ¼" angles. Wire entrance to the pole shaft is (a) standard 1" ID grommeted hole with 3" x 5" handhole, or (b) coupling (specify size) with a 3" x 5" handhole.

POLE SHAFT

The cross-section is round or 16-sided with a 4" bend radius. Each pole is a constant tapered hollow steel section and is up to 55' in length with a 1½ times diameter slip joint as standard. The pole shaft sections are high strength steel to ASTM A572, ASTM A595, or weathering steel to ASTM A871 or ASTM A595 GR.C. The plate has a single thickness – no laminations.



BASE PLATE

The shaft is supplied with an integrally welded steel base plate. The base plate telescopes the pole shaft and is circumferentially welded top and bottom or has a full penetration butt weld with backing.

ANCHOR BOLTS

Anchor bolts are provided loose with a checking template as standard. Anchor bolts are galvanized to ASTM A153 for a minimum of 8" on the threaded end. If requested, bolts are shipped in rigid cages at extra cost. Each anchor bolt is supplied with one leveling nut, one hold down nut and two flat washers with strength equal to or exceeding the proof load of the bolt.

LOADING

Vertical forces due to pole weight, luminaries, attachments and maintenance device are included in the maximum stress at the base. Wind pressures, adjusted for shape and height, are applied to the centroids of all projected areas. Eccentric moments due to deflection under maximum wind and eccentric loads are considered. Sum of maximum stresses should not exceed the guaranteed minimum yield strength of the material. Base and anchor bolts to be designed to withstand the maximum combined stress at the base of the pole.

PRE-WIRING

Cages and tubular crossarms are available from the factory pre-wired. Consult with your Valmont sales representative for more information.

WELDING

All welds are made using welders and procedures qualified in accordance with either the American Welding Society D1.1 Structural Steel Welding Code or the Canadian Welding Bureau as applicable. Additionally, weld inspections are performed in accordance with AWS D1.1.

FINISH

The finish is primed, painted, galvanized, or weathering steel. Prime painted is either spray or flow painted inside and out. Galvanizing on shafts meet all the requirements of ASTM A123, miscellaneous hardware is galvanized to ASTM A153. Galvanizing is done with a maximum pole section length of 55'. Weathering steel is shot blasted to clean the surface of foreign matter and ensure even oxidizing.

TESTING

A full scale vertical test facility is available at Valmont to simulate actual full structure loads. Any test required is at customer's expense. Poles can be tested simulating maximum moment due to wind and eccentric forces (loads applied at four points) including, simultaneously, vertical forces.

VIBRATION DISCLAIMER

Although rare, vibrations severe enough to cause damage can occasionally occur in structures of all types. Because they are influenced by many interacting variables, vibrations are generally unpredictable. The user's maintenance program includes observation for excessive vibration and examination for any structural damage or bolt loosening. The Valmont warranty specifically excludes fatigue failure or similar phenomena resulting from induced vibration, harmonic oscillation or resonance associated with movement of air currents around the product.

SHIPPING

Pole structures are shipped by rail or truck at the option of Valmont. All structures are firmly secured and adequately packed to assure protection to the structures and to finish.

Valmont Industries, Inc. reserves the right to change any portion of this publication without notice in order to promote product improvement and allow for material availability.



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valmont 
STRUCTURES

Conserving Resources. Improving Life.

Division Headquarters

7002 N. 288th Street
P.O. Box 358
Valley, Nebraska 68064 USA

Phone: 402.359.2201

800.825.6668

Fax: 402.359.6221

E-mail: polesinfo@valmont.com

valmontstructures.com