

Progress Rail

A Caterpillar Company

Signal Products Catalog

- Find specific parts
- Build parts lists
- View individual parts for accurate ordering

Parts are subject to availability.
Please call for the most current information and pricing.

new edition

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CAPABILITIES & LOCATIONS

Let Progress Rail help you with a full line of signal products:

- Engineering Design
- CAD Services
- Wiring Signal Cases & Houses
- Turnkey Signal Systems
- Wayside Cantilevers & Bridges
- Mast Ladder Platforms (MLP)
- Grade Crossing Cantilevers & Bridges
- Flashers & Gate Flashers
- Flood Platforms
- Defect Detection Products



QUALITY POLICY

Progress Rail Services pledges our products and services meet our internal and external customers requirements through a commitment to continual improvement of quality management system and failure prevention.

These locations optimize our ability to provide timely service to our customers
minimizing the expense of freight and time to the job site.



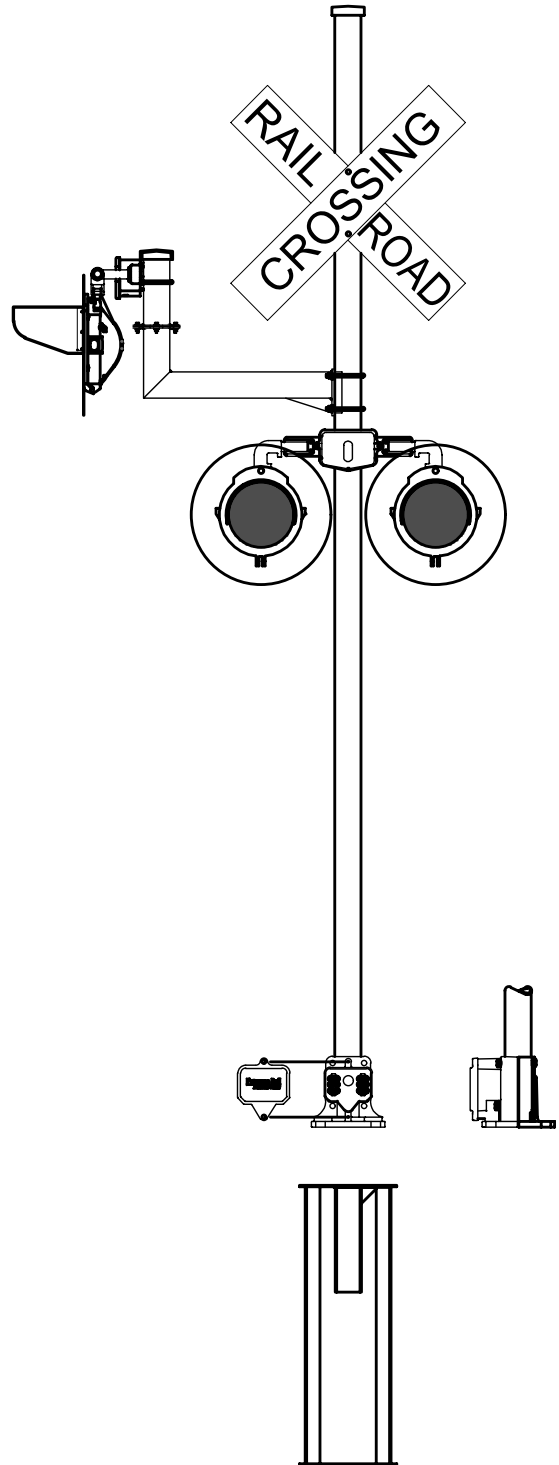
* LOCATIONS ARE SUBJECT TO CHANGE.

FLASHER LIGHT SIGNAL ASSEMBLIES

Progress Rail Services manufactures a complete line of flashing light assemblies. All assemblies are constructed to meet AAR specifications.

Determined by customer:

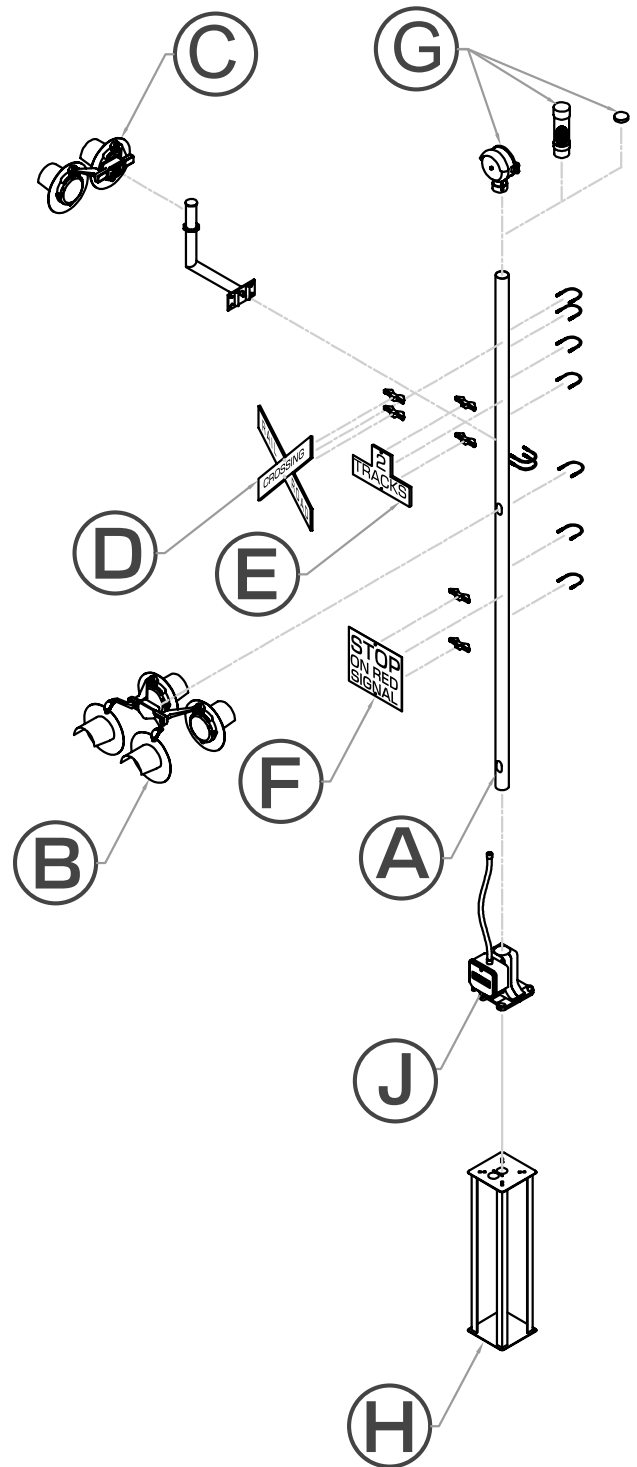
- » Mast length
- » Base type
- » Type of sign
- » Size and type of lights
- » Foundation



GRADE CROSSING FLASHER ASSEMBLY

2

A	MAST	MAST POLE _____ FT. IN. BASE HOLE <input type="checkbox"/> 0° <input type="checkbox"/> 180° <input type="checkbox"/> 0° & 180° MAIN LIGHT HOLE <input type="checkbox"/> 0° <input type="checkbox"/> 180° EXTRA LIGHT HOLE <input type="checkbox"/> NONE <input type="checkbox"/> 90° RIGHT <input type="checkbox"/> 90° LEFT <input type="checkbox"/> 45° RIGHT <input type="checkbox"/> 45° LEFT GROUND WIRE: <input type="checkbox"/> 6'-0" <input type="checkbox"/> 8'-0" <input type="checkbox"/> NONE
B	MAST MAIN LIGHTS	CROSSARM: <input type="checkbox"/> 1-WAY <input type="checkbox"/> 2-WAY INCANDESCENT: (FRONT) _____ LEN _____ VOLTS _____ WATTS (REAR) _____ LEN _____ VOLTS _____ WATTS 12" LED INSERTS: <input type="checkbox"/> RDG-6 <input type="checkbox"/> GELCORE <input type="checkbox"/> ELECTROTECH <input type="checkbox"/> RDG-12 <input type="checkbox"/> DIA LIGHT FLX 4000 <input type="checkbox"/> OTHER: _____ BACKGROUNDS: <input type="checkbox"/> 24" Dia. <input type="checkbox"/> 20" Dia. <input type="checkbox"/> ALUM. <input type="checkbox"/> STEEL <input type="checkbox"/> PLASTIC
C	MAST SIDE STREET LIGHTS	CROSSARM: <input type="checkbox"/> 1-WAY <input type="checkbox"/> 2-WAY INCANDESCENT: (FRONT) _____ LEN _____ VOLTS _____ WATTS (REAR) _____ LEN _____ VOLTS _____ WATTS 12" LED INSERTS: <input type="checkbox"/> RDG-6 <input type="checkbox"/> GELCORE <input type="checkbox"/> ELECTROTECH <input type="checkbox"/> RDG-12 <input type="checkbox"/> DIA LIGHT FLX 4000 <input type="checkbox"/> OTHER: _____ BACKGROUNDS: <input type="checkbox"/> 24" Dia. <input type="checkbox"/> 20" Dia. <input type="checkbox"/> ALUM. <input type="checkbox"/> STEEL <input type="checkbox"/> PLASTIC <input type="checkbox"/> 36" SIDE STREET STAND-OFF BRACKET
D	CROSSING SIGN	REFLECTIVE SHEETING: <input type="checkbox"/> HI-INTENSITY <input type="checkbox"/> REFLECTIVE STRIP ON BACK <input type="checkbox"/> 2 INCH <input type="checkbox"/> 6 INCH <input type="checkbox"/> BACK TO BACK LETTERING
E	TRACK SIGNS	_____ NUMBER OF TRACKS REFLECTIVE SHEETING: <input type="checkbox"/> HI-INTENSITY
F	STOP ON RED SIGN	REFLECTIVE SHEETING: <input type="checkbox"/> HI-INTENSITY
G	BELL OR PINNACLE	<input type="checkbox"/> PINNACLE <input type="checkbox"/> LOUD TONE BELL <input type="checkbox"/> ELECTRONIC
H	FOUNDATION	<input type="checkbox"/> PRECAST <input type="checkbox"/> GALVANIZE STEEL, 48" TALL
I	WIRING HARNESS Not Shown On Drawing	<input type="checkbox"/> #10 BLUE OKONITE <input type="checkbox"/> #10 BLACK BRAIDED <input type="checkbox"/> 5C#10 OKONITE
J	SPLIT BASE J-BOX	<input type="checkbox"/> 5 INCH SINGLE <input type="checkbox"/> 5 INCH DOUBLE

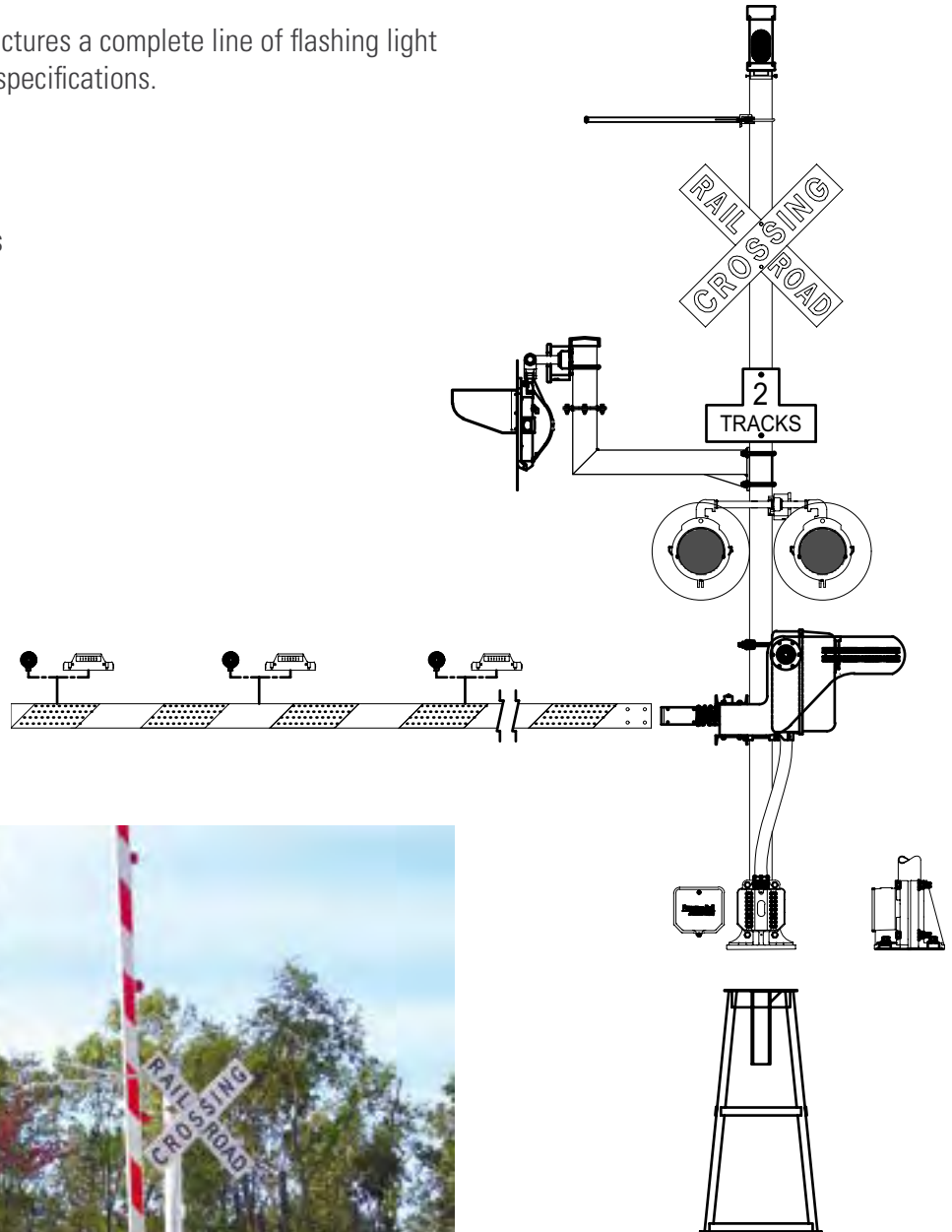


GATE FLASHER ASSEMBLY

Progress Rail Services manufactures a complete line of flashing light gate assemblies. Meets AAR specifications.

Determined by customer:

- » Mast length
- » Size and type of lights
- » Base type
- » Type of sign
- » Foundation
- » Gate mech
- » Gate arm

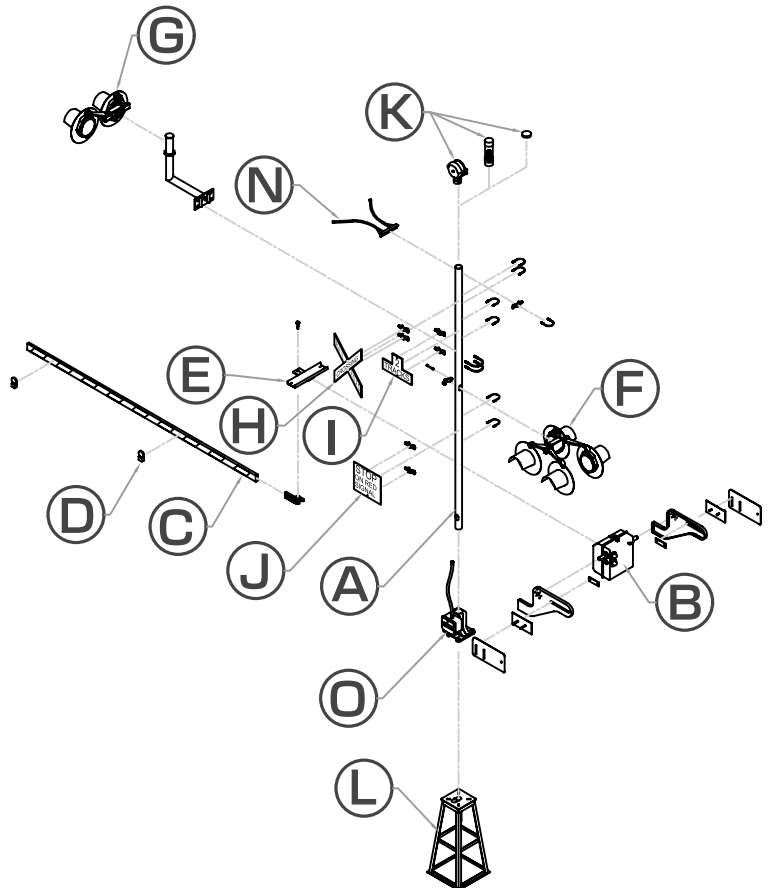


GRADE CROSSING GATE FLASHER ASSEMBLY

2

A	GATE MAST	<p>MAST POLE FT. IN.</p> <p>BASE HOLE <input type="checkbox"/> 0° <input type="checkbox"/> 180° <input type="checkbox"/> 0° & 180°</p> <p>MAIN LIGHT HOLE <input type="checkbox"/> 90° RIGHT <input type="checkbox"/> 90° LEFT <input type="checkbox"/> 45° RIGHT <input type="checkbox"/> 45° LEFT</p> <p>EXTRA LIGHT HOLE <input type="checkbox"/> NONE <input type="checkbox"/> 90° RIGHT <input type="checkbox"/> 90° LEFT <input type="checkbox"/> 45° RIGHT <input type="checkbox"/> 45° LEFT</p> <p>GROUND WIRE: <input type="checkbox"/> 6'-0" <input type="checkbox"/> 8'-0" <input type="checkbox"/> NONE</p>
B	GATE MECH	<p><input type="checkbox"/> WESTERN-CULLEN-HAYES 3597 <input type="checkbox"/> SIEMENS S-60 <input type="checkbox"/> OTHERS _____</p> <p><input type="checkbox"/> ENTRANCE GATE <input type="checkbox"/> EXIT GATE</p> <p>NOTES: _____</p>
C	GATE ARM	<p>LENGTH: _____ FEET <input type="checkbox"/> STANDARD <input type="checkbox"/> HIGH WIND PROFILE</p> <p>TYPE: <input type="checkbox"/> ALUM / FIBERGLASS <input type="checkbox"/> FIBERGLASS <input type="checkbox"/> ALUMINUM</p> <p>REFLECTIVE SHEETING: <input type="checkbox"/> HI-INTENSITY</p> <p>SHEETING: <input type="checkbox"/> VERTICAL <input type="checkbox"/> HORIZONTAL</p>
D	GATE LIGHTS	<p><input type="checkbox"/> LED <input type="checkbox"/> 4" ROUND <input type="checkbox"/> LOW PROFILE</p> <p><input type="checkbox"/> INCANDESCENT</p>
E	CONVERSION BRACKET	<p><input type="checkbox"/> STANDARD CONVERSION BRACKET <input type="checkbox"/> GATE SAVER CONVERSION BRACKET</p>
F	MAST MAIN LIGHTS	<p>CROSSARM: <input type="checkbox"/> 1-WAY <input type="checkbox"/> 2-WAY</p> <p>INCANDESCENT: (FRONT) _____ LEN _____ VOLTS _____ WATTS (REAR) _____ LEN _____ VOLTS _____ WATTS</p> <p>12" LED INSERTS: <input type="checkbox"/> RDG-6 <input type="checkbox"/> GELCORE <input type="checkbox"/> ELECTROTECH <input type="checkbox"/> RDG-12 <input type="checkbox"/> DIA LIGHT FLX 4000 <input type="checkbox"/> OTHER: _____</p> <p>BACKGROUNDS: <input type="checkbox"/> 24" Dia. <input type="checkbox"/> 20" Dia. <input type="checkbox"/> ALUM. <input type="checkbox"/> STEEL <input type="checkbox"/> PLASTIC</p>
G	MAST SIDE STREET LIGHTS	<p>CROSSARM: <input type="checkbox"/> 1-WAY <input type="checkbox"/> 2-WAY</p> <p>INCANDESCENT: (FRONT) _____ LEN _____ VOLTS _____ WATTS (REAR) _____ LEN _____ VOLTS _____ WATTS</p> <p>12" LED INSERTS: <input type="checkbox"/> RDG-6 <input type="checkbox"/> GELCORE <input type="checkbox"/> ELECTROTECH <input type="checkbox"/> RDG-12 <input type="checkbox"/> DIA LIGHT FLX 4000 <input type="checkbox"/> OTHER: _____</p> <p>BACKGROUNDS: <input type="checkbox"/> 24" Dia. <input type="checkbox"/> 20" Dia. <input type="checkbox"/> ALUM. <input type="checkbox"/> STEEL <input type="checkbox"/> PLASTIC</p> <p><input type="checkbox"/> 36" SIDE STREET STAND-OFF BRACKET</p>

H	CROSSING SIGN	<p>REFLECTIVE SHEETING: <input type="checkbox"/> HI-INTENSITY <input type="checkbox"/> REFLECTIVE STRIP ON BACK <input type="checkbox"/> 2 INCH <input type="checkbox"/> 6 INCH <input type="checkbox"/> BACK TO BACK LETTERING</p>
I	TRACK SIGNS	<p>_____ NUMBER OF TRACKS</p> <p>REFLECTIVE SHEETING: <input type="checkbox"/> HI-INTENSITY</p>
J	STOP ON RED SIGN	<p>REFLECTIVE SHEETING: <input type="checkbox"/> HI-INTENSITY</p>
K	BELL OR PINNACLE	<p><input type="checkbox"/> PINNACLE <input type="checkbox"/> LOUD TONE BELL <input type="checkbox"/> ELECTRONIC</p>
L	FOUNDATION	<p><input type="checkbox"/> PRECAST <input type="checkbox"/> GALVANIZE STEEL <input type="checkbox"/> 48" TALL <input type="checkbox"/> 60" TALL</p>
M	WIRING HARNESS No Shown On Drawing	<p><input type="checkbox"/> #10 BLUE OKONITE <input type="checkbox"/> #10 BLACK BRAIDED <input type="checkbox"/> 5C#10 OKONITE</p>
N	HIGH WIND BRACKET	<p><input type="checkbox"/> YES <input type="checkbox"/> NO</p>
O	SPLIT BASE J-BOX	<p><input type="checkbox"/> 5 INCH SINGLE <input type="checkbox"/> 5 INCH DOUBLE</p>



GATE / FLASHER ACCESS PLATFORM

The Gate/Flasher Platform makes it easy to do any type of maintenance on the gate mech, on any given landscape slope.

- » Excellent for steep grade slope
- » All aluminum construction
- » Aluminum serrated floor grating
- » Sturdy handrail on three sides
- » Large platform space
- » Safety in mind



Design For New Installation

Notes

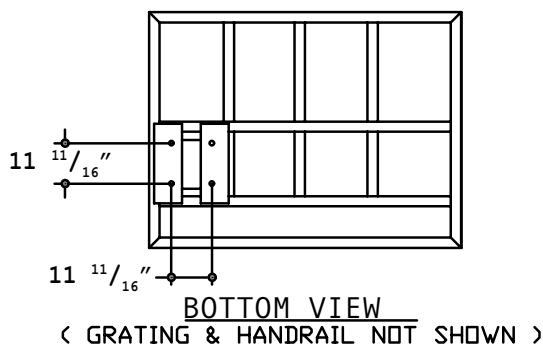
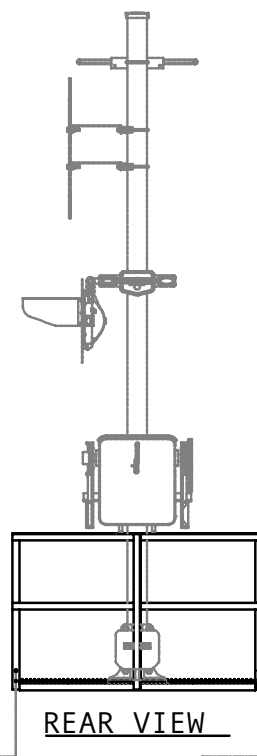
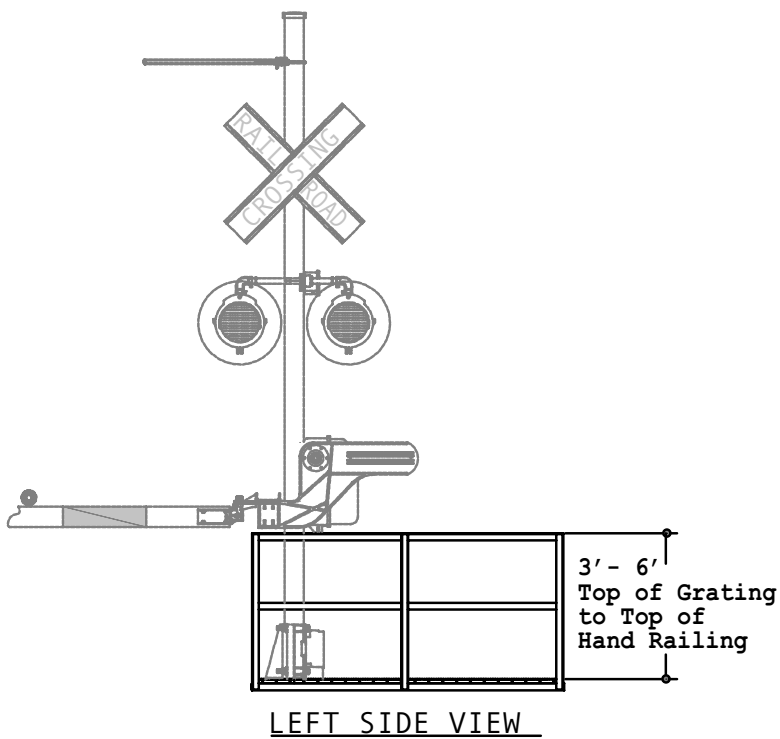
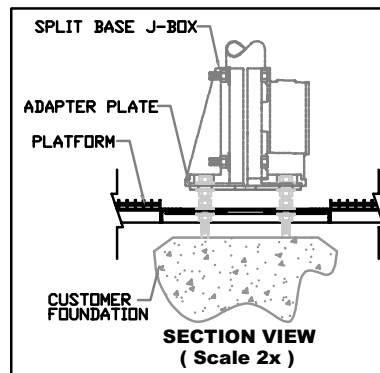
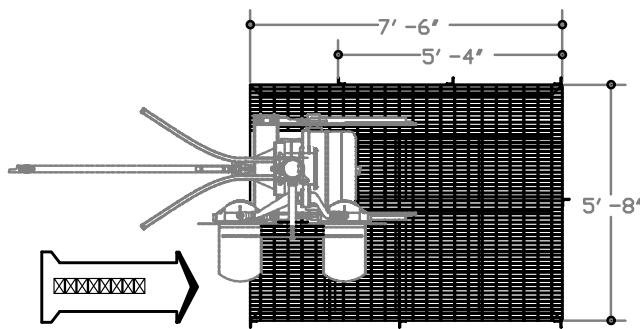
1. This platform has a live load capacity rating of 500 lbs. when installed without adjustable legs on a standard gate flasher foundation (steel frame, pyramid style). In soil with minimum allowable bearing capacity of 3,000 psf, the platform must be for adjustable legs.

2. This platform has a live load capacity rating of 500 lbs. when installed with adjustable legs on a standard gate flasher foundation (steel frame, pyramid style). The platform legs must be buried in the ground so that the base plates are below the frost line for the installation site. Check local bearing capacity of 2,000 psf to a diameter of 2-3 feet around the vertical centerline of each leg, otherwise, a geotechnical engineer shall be consulted to improve the soil condition in order to maintain an allowable bearing capacity of 2,000 psf.

GATE / FLASHER ACCESS PLATFORM

3

PART# 9453001320

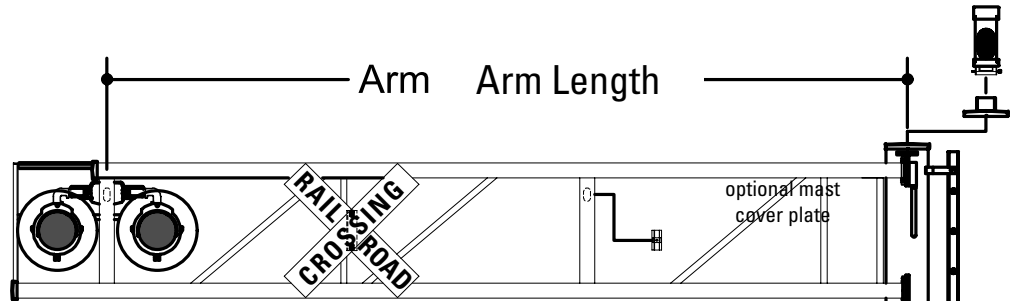


OPTIONAL
OUTRIGGER KIT 3'-0" TO 12'-0"
PROGRESS RAIL # 9453001336

CROSSING CANTILEVER ASSEMBLY

Progress Rail designs and manufactures single mast walkout cantilevers for highway crossings. These cantilevers vary in size from a 10'-0" arm to a 30'-0" arm. They can be constructed for right hand or left hand installation. These structures can accommodate a full compliment of side street lights and signs. For ease of field installation, sign and flashing light mounting angles are welded directly to the cantilever mast.

All structures have non-slip walkway grating for the entire length of the arm. The arm design for a Progress Rail cantilever provides for an easy 12-bolt installation of arm to mast. The mast will accept a bell or standard pinnacle. All structures are constructed with 6061-T6 aluminum and are design to meet AAR specifications. A galvanized steel mast can be supplied if required, to be used with an aluminum arm.

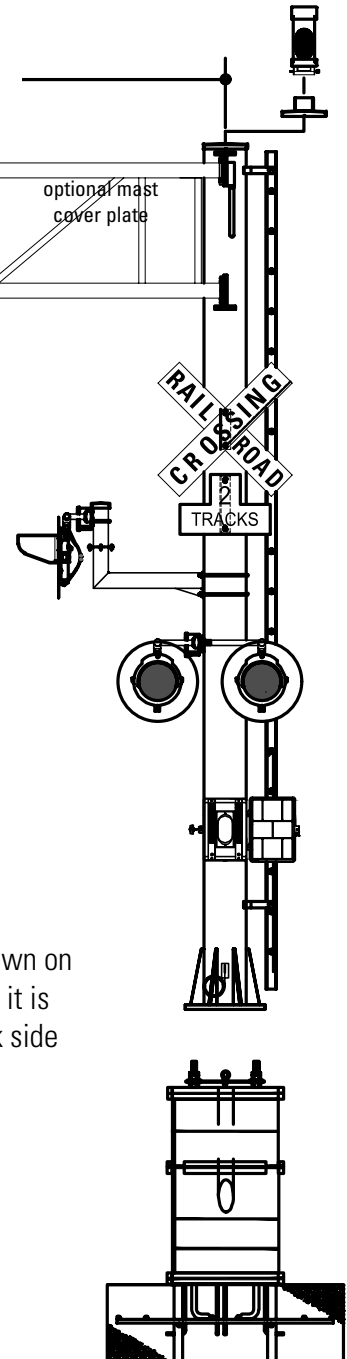


FEATURES

- » Supports 500 lbs. live load at end of arm
- » Arm length: 10' thru 30'
- » Meets or Exceeds AAR and AASHTO



Note:
Junction box shown on front of mast but it is mounted on back side of mast.

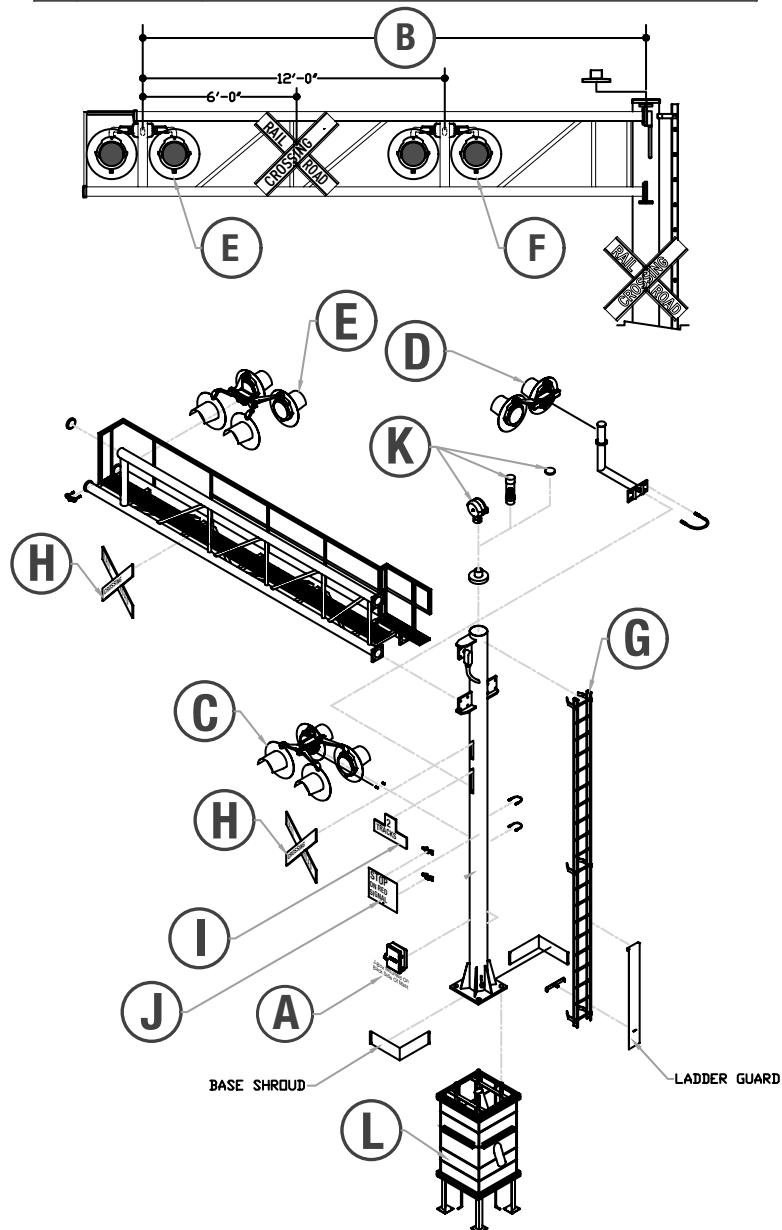


SINGLE MAST CANTILEVER ASSEMBLY

3

A	MAST	ROADSIDE: <input type="checkbox"/> RH <input type="checkbox"/> LH JUNCTION BOX: <input type="checkbox"/> 20 INCH X 12 INCH NO BOTTOM COUPLING <input type="checkbox"/> 20 INCH X 20 INCH WITH 4 INCH BOTTOM COUPLING ERICO GROUND WIRE: <input type="checkbox"/> 6'-0" <input type="checkbox"/> 8'-0" <input type="checkbox"/> NONE
B	ARM LENGTH	____ FEET ____ INCHES
C	MAST LIGHTS	CROSSARM: <input type="checkbox"/> 1-WAY <input type="checkbox"/> 2-WAY INCANDESCENT: (FRONT) ____ LEN ____ VOLTS ____ WATTS (REAR) ____ LEN ____ VOLTS ____ WATTS 12" LED INSERTS: <input type="checkbox"/> RDG-6 <input type="checkbox"/> GELCORE <input type="checkbox"/> ELECTROTECH <input type="checkbox"/> RDG-12 <input type="checkbox"/> DIA LIGHT FLX 4000 <input type="checkbox"/> OTHER: _____ BACKGROUNDS: <input type="checkbox"/> 24" Dia. <input type="checkbox"/> 20" Dia. <input type="checkbox"/> ALUM. <input type="checkbox"/> STEEL <input type="checkbox"/> PLASTIC
D	MAST SIDE LIGHTS	CROSSARM: <input type="checkbox"/> 1-WAY <input type="checkbox"/> 2-WAY INCANDESCENT: (FRONT) ____ LEN ____ VOLTS ____ WATTS (REAR) ____ LEN ____ VOLTS ____ WATTS 12" LED INSERTS: <input type="checkbox"/> RDG-6 <input type="checkbox"/> GELCORE <input type="checkbox"/> ELECTROTECH <input type="checkbox"/> RDG-12 <input type="checkbox"/> DIA LIGHT FLX 4000 <input type="checkbox"/> OTHER: _____ BACKGROUNDS: <input type="checkbox"/> 24" Dia. <input type="checkbox"/> 20" Dia. <input type="checkbox"/> ALUM. <input type="checkbox"/> STEEL <input type="checkbox"/> PLASTIC <input type="checkbox"/> 36" SIDE STREET STAND-OFF BRACKET
E	ARM TIP LIGHTS	CROSSARM: <input type="checkbox"/> 1-WAY <input type="checkbox"/> 2-WAY INCANDESCENT: (FRONT) ____ LEN ____ VOLTS ____ WATTS (REAR) ____ LEN ____ VOLTS ____ WATTS 12" LED INSERTS: <input type="checkbox"/> RDG-6 <input type="checkbox"/> GELCORE <input type="checkbox"/> ELECTROTECH <input type="checkbox"/> RDG-12 <input type="checkbox"/> DIA LIGHT FLX 4000 <input type="checkbox"/> OTHER: _____ BACKGROUNDS: <input type="checkbox"/> 24" Dia. <input type="checkbox"/> 20" Dia. <input type="checkbox"/> ALUM. <input type="checkbox"/> STEEL <input type="checkbox"/> PLASTIC
F	ARM LANE LIGHTS	CROSSARM: <input type="checkbox"/> 1-WAY <input type="checkbox"/> 2-WAY INCANDESCENT: (FRONT) ____ LEN ____ VOLTS ____ WATTS (REAR) ____ LEN ____ VOLTS ____ WATTS 12" LED INSERTS: <input type="checkbox"/> RDG-6 <input type="checkbox"/> GELCORE <input type="checkbox"/> ELECTROTECH <input type="checkbox"/> RDG-12 <input type="checkbox"/> DIA LIGHT FLX 4000 <input type="checkbox"/> OTHER: _____ BACKGROUNDS: <input type="checkbox"/> 24" Dia. <input type="checkbox"/> 20" Dia. <input type="checkbox"/> ALUM. <input type="checkbox"/> STEEL <input type="checkbox"/> PLASTIC
G	LADDER	<input type="checkbox"/> FIXED LADDER (STANDARD) <input type="checkbox"/> SURE CLIMB SAFETY CABLE ASSY <input type="checkbox"/> LADDER CAGE
H	CROSSING SIGN	LOCATION: <input type="checkbox"/> ARM <input type="checkbox"/> MAST <input type="checkbox"/> 2 INCH REFLECTIVE SHEETING: <input type="checkbox"/> HI-INTENSITY <input type="checkbox"/> 6 INCH REFLECTIVE STRIP ON BACK: <input type="checkbox"/> BACK TO BACK LETTERING <input type="checkbox"/> CROSSING SIGN MOUNTING BRACKET ON THE BACK SIDE OF MAST <input type="checkbox"/> CROSSING SIGN MOUNTING BRACKET ON THE BACK SIDE OF ARM
I	TRACK SIGNS	____ NUMBER OF TRACKS REFLECTIVE SHEETING: <input type="checkbox"/> HI-INTENSITY
J	STOP ON RED SIGN	REFLECTIVE SHEETING: <input type="checkbox"/> HI-INTENSITY
K	BELL OR PINNACLE	<input type="checkbox"/> PINNACLE <input type="checkbox"/> LOUD TONE BELL <input type="checkbox"/> ELECTRONIC
L	SINGLE MAST FOUNDATION	<input type="checkbox"/> PRECAST LEAVE IN PLACE FORMS: <input type="checkbox"/> 5 FT. <input type="checkbox"/> 7 FT.

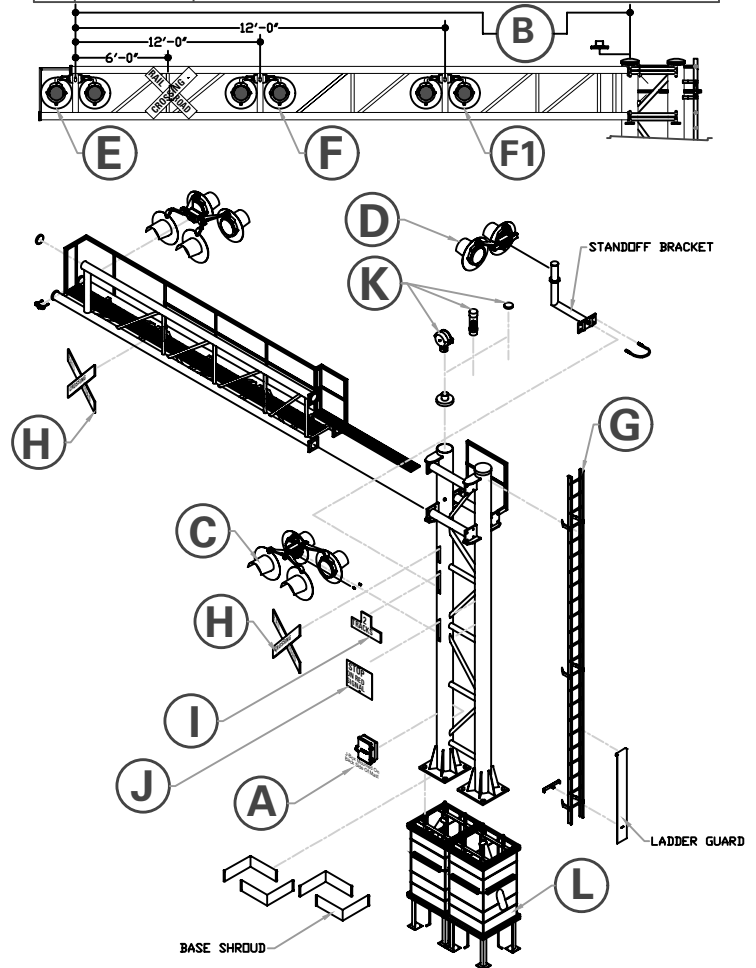
M	WIRING HARNESS Not Shown On Drawing	<input type="checkbox"/> #10 TC BLUE OKONITE <input type="checkbox"/> #10 BLACK BRAIDED <input type="checkbox"/> 5C#10 OKONITE
Special	ARM TIP SIDE LIGHTS Not Shown On Drawing	CROSSARM: <input type="checkbox"/> 1-WAY <input type="checkbox"/> 2-WAY INCANDESCENT: (FRONT) ____ LEN ____ VOLTS ____ WATTS (REAR) ____ LEN ____ VOLTS ____ WATTS 12" LED INSERTS: <input type="checkbox"/> RDG-6 <input type="checkbox"/> GELCORE <input type="checkbox"/> ELECTROTECH <input type="checkbox"/> RDG-12 <input type="checkbox"/> DIA LIGHT FLX 4000 <input type="checkbox"/> OTHER: _____ BACKGROUNDS: <input type="checkbox"/> 24" Dia. <input type="checkbox"/> 20" Dia. <input type="checkbox"/> ALUMINUM <input type="checkbox"/> STEEL <input type="checkbox"/> Extended Swivel Jury Mast <input type="checkbox"/> Standoff Bracket



DOUBLE MAST HIGHWAY CANTILEVER ASSEMBLY

A	MAST	ROADSIDE: <input type="checkbox"/> RH <input type="checkbox"/> LH JUNCTION BOX: <input type="checkbox"/> 20 INCH X 12 INCH NO BOTTOM COUPLING <input type="checkbox"/> 20 INCH X 20 INCH WITH 4 INCH BOTTOM COUPLING ERICO GROUND WIRE: <input type="checkbox"/> 6'-0" <input type="checkbox"/> 8'-0" <input type="checkbox"/> NONE
B	ARM LENGTH	____ FEET ____ INCHES
C	MAST LIGHTS	CROSSARM: <input type="checkbox"/> 1-WAY <input type="checkbox"/> 2-WAY INCANDESCENT: (FRONT) ____ LEN ____ VOLTS ____ WATTS (REAR) ____ LEN ____ VOLTS ____ WATTS 12" LED INSERTS: <input type="checkbox"/> RDG-6 <input type="checkbox"/> GELCORE <input type="checkbox"/> ELECTROTECH <input type="checkbox"/> RDG-12 <input type="checkbox"/> DIA LIGHT FLX 4000 <input type="checkbox"/> OTHER: _____ BACKGROUNDS: <input type="checkbox"/> 24" Dia. <input type="checkbox"/> 20" Dia. <input type="checkbox"/> ALUM. <input type="checkbox"/> STEEL <input type="checkbox"/> PLASTIC
D	MAST SIDE LIGHTS	CROSSARM: <input type="checkbox"/> 1-WAY <input type="checkbox"/> 2-WAY INCANDESCENT: (FRONT) ____ LEN ____ VOLTS ____ WATTS (REAR) ____ LEN ____ VOLTS ____ WATTS 12" LED INSERTS: <input type="checkbox"/> RDG-6 <input type="checkbox"/> GELCORE <input type="checkbox"/> ELECTROTECH <input type="checkbox"/> RDG-12 <input type="checkbox"/> DIA LIGHT FLX 4000 <input type="checkbox"/> OTHER: _____ BACKGROUNDS: <input type="checkbox"/> 24" Dia. <input type="checkbox"/> 20" Dia. <input type="checkbox"/> ALUM. <input type="checkbox"/> STEEL <input type="checkbox"/> PLASTIC <input type="checkbox"/> 36" SIDE STREET STAND-OFF BRACKET
E	ARM TIP LIGHTS	CROSSARM: <input type="checkbox"/> 1-WAY <input type="checkbox"/> 2-WAY INCANDESCENT: (FRONT) ____ LEN ____ VOLTS ____ WATTS (REAR) ____ LEN ____ VOLTS ____ WATTS 12" LED INSERTS: <input type="checkbox"/> RDG-6 <input type="checkbox"/> GELCORE <input type="checkbox"/> ELECTROTECH <input type="checkbox"/> RDG-12 <input type="checkbox"/> DIA LIGHT FLX 4000 <input type="checkbox"/> OTHER: _____ BACKGROUNDS: <input type="checkbox"/> 24" Dia. <input type="checkbox"/> 20" Dia. <input type="checkbox"/> ALUM. <input type="checkbox"/> STEEL <input type="checkbox"/> PLASTIC
F	ARM LANE LIGHTS	CROSSARM: <input type="checkbox"/> 1-WAY <input type="checkbox"/> 2-WAY INCANDESCENT: (FRONT) ____ LEN ____ VOLTS ____ WATTS (REAR) ____ LEN ____ VOLTS ____ WATTS 12" LED INSERTS: <input type="checkbox"/> RDG-6 <input type="checkbox"/> GELCORE <input type="checkbox"/> ELECTROTECH <input type="checkbox"/> RDG-12 <input type="checkbox"/> DIA LIGHT FLX 4000 <input type="checkbox"/> OTHER: _____ BACKGROUNDS: <input type="checkbox"/> 24" Dia. <input type="checkbox"/> 20" Dia. <input type="checkbox"/> ALUM. <input type="checkbox"/> STEEL <input type="checkbox"/> PLASTIC
F1	ARM LANE LIGHTS	CROSSARM: <input type="checkbox"/> 1-WAY <input type="checkbox"/> 2-WAY INCANDESCENT: (FRONT) ____ LEN ____ VOLTS ____ WATTS (REAR) ____ LEN ____ VOLTS ____ WATTS 12" LED INSERTS: <input type="checkbox"/> RDG-6 <input type="checkbox"/> GELCORE <input type="checkbox"/> ELECTROTECH <input type="checkbox"/> RDG-12 <input type="checkbox"/> DIA LIGHT FLX 4000 <input type="checkbox"/> OTHER: _____ BACKGROUNDS: <input type="checkbox"/> 24" Dia. <input type="checkbox"/> 20" Dia. <input type="checkbox"/> ALUM. <input type="checkbox"/> STEEL <input type="checkbox"/> PLASTIC
G	LADDER	<input type="checkbox"/> FIXED LADDER (STANDARD) <input type="checkbox"/> SURE CLIMB SAFETY CABLE ASSY <input type="checkbox"/> LADDER CAGE
H	CROSSING SIGN	LOCATION: <input type="checkbox"/> ARM <input type="checkbox"/> MAST <input type="checkbox"/> 2 INCH REFLECTIVE SHEETING: <input type="checkbox"/> HI-INTENSITY <input type="checkbox"/> 6 INCH REFLECTIVE STRIP ON BACK: <input type="checkbox"/> BACK TO BACK LETTERING <input type="checkbox"/> CROSSING SIGN MOUNTING BRACKET ON THE BACK SIDE OF MAST <input type="checkbox"/> CROSSING SIGN MOUNTING BRACKET ON THE BACK SIDE OF ARM
I	TRACK SIGNS	____ NUMBER OF TRACKS REFLECTIVE SHEETING: <input type="checkbox"/> HI-INTENSITY

J	STOP ON RED SIGN	REFLECTIVE SHEETING: <input type="checkbox"/> HI-INTENSITY
K	BELL OR PINNACLE	<input type="checkbox"/> PINNACLE <input type="checkbox"/> LOUD TONE BELL <input type="checkbox"/> ELECTRONIC
L	DOUBLE MAST FOUNDATION	<input type="checkbox"/> PRECAST LEAVE IN PLACE FORMS: <input type="checkbox"/> 5 FT. <input type="checkbox"/> 7 FT.
M	WIRING HARNESS Not Shown On Drawing	<input type="checkbox"/> #10 TC BLUE OKONITE <input type="checkbox"/> #10 BLACK BRAIDED <input type="checkbox"/> 5C#10 OKONITE
Special	ARM TIP SIDE LIGHTS Not Shown On Drawing	CROSSARM: <input type="checkbox"/> 1-WAY <input type="checkbox"/> 2-WAY INCANDESCENT: (FRONT) ____ LEN ____ VOLTS ____ WATTS (REAR) ____ LEN ____ VOLTS ____ WATTS 12" LED INSERTS: <input type="checkbox"/> RDG-6 <input type="checkbox"/> GELCORE <input type="checkbox"/> ELECTROTECH <input type="checkbox"/> RDG-12 <input type="checkbox"/> DIA LIGHT FLX 4000 <input type="checkbox"/> OTHER: _____ BACKGROUNDS: <input type="checkbox"/> 24" Dia. <input type="checkbox"/> 20" Dia. <input type="checkbox"/> ALUMINUM <input type="checkbox"/> STEEL <input type="checkbox"/> Extended Swivel Jury Mast <input type="checkbox"/> Standoff Bracket



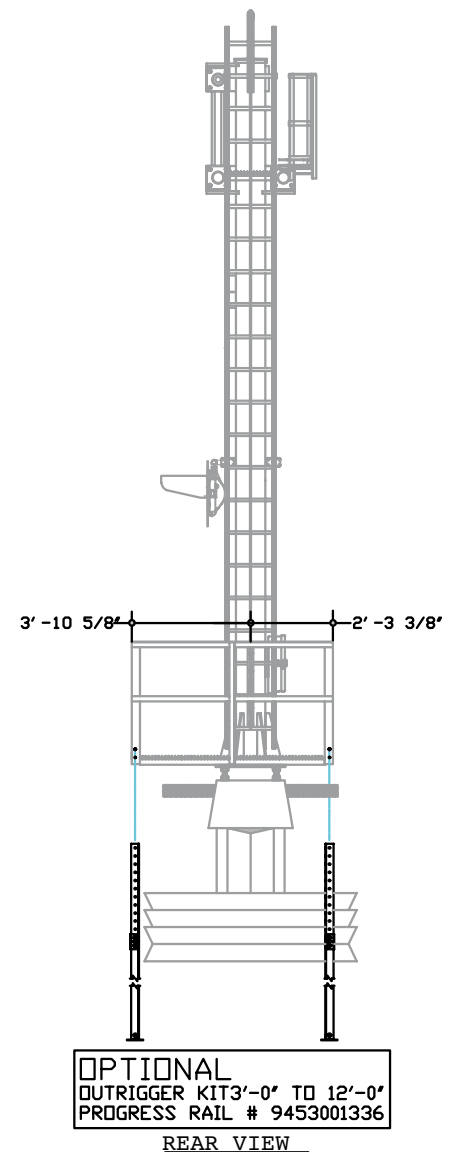
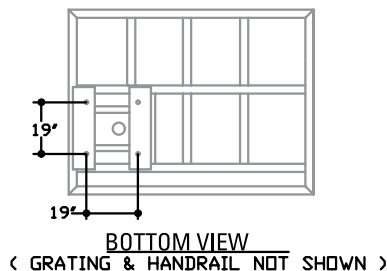
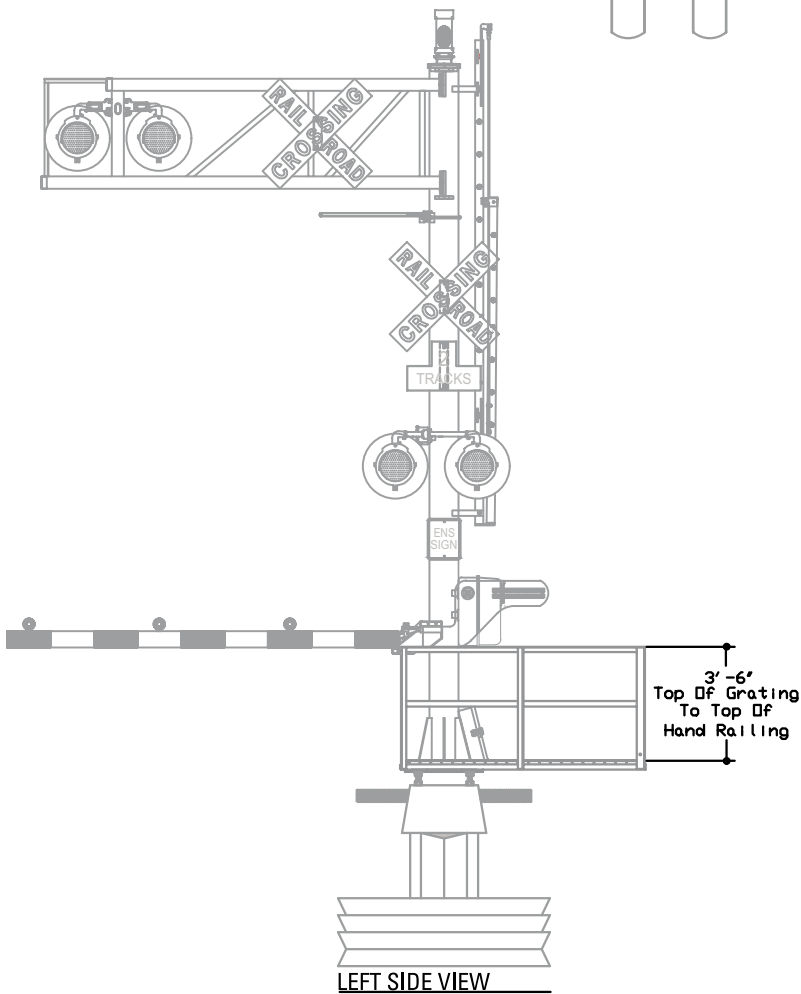
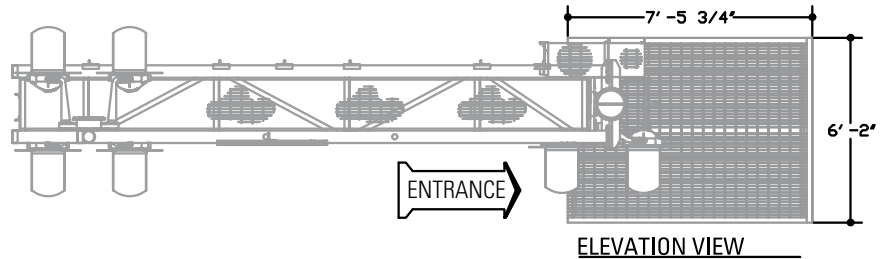
HIGHWAY CANTILEVER ACCESS PLATFORM

3

PART# 9453001337

The Highway Crossing Platform makes it easy to do any type of maintenance on the cantilever, on any given landscape slope.

- » Excellent for steep grade slopes
- » All aluminum construction
- » Sturdy handrail on three sides
- » Large platform space
- » Aluminum serrated floor grating



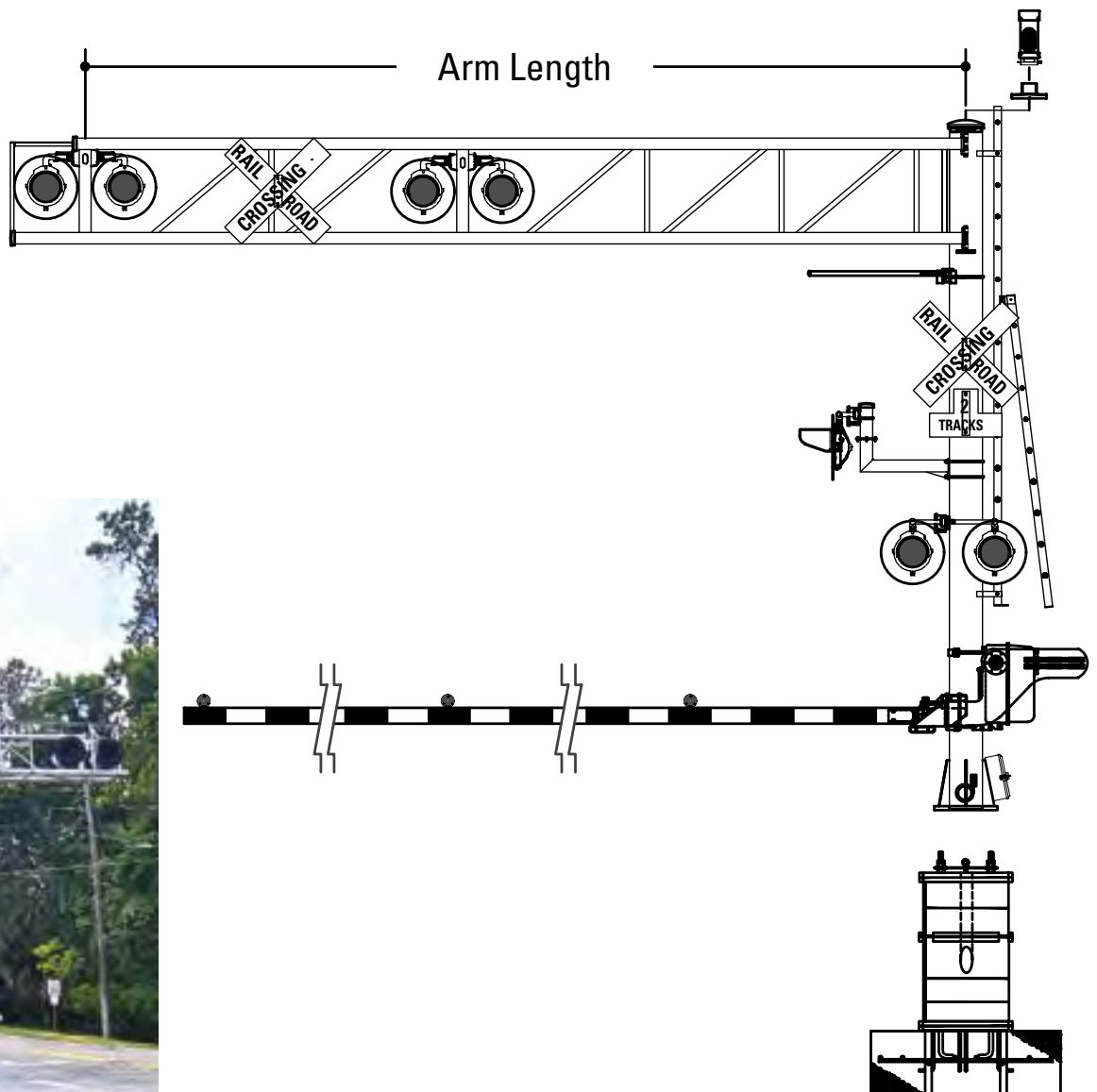
SINGLE MAST CANTILEVER GATE COMBO ASSEMBLY

Progress Rail also offers a single mast walkway cantilever gate combo assembly eliminating the need for installing a separate foundation. These cantilevers offer the same features of a standard mast cantilever with the addition of gate mechanism and gate arm.

All structures offer no slip walkway grating for the entire arm span and can be fitted with a bell or a standard pinnacle. All combos are provided with a high wind bracket and gate arm deflector bracket to protect the light hood during gate function, and our patented "Slide Safety Ladder."

The Slide Safety Ladder allows a maintainer to service the combo without the need to carry an additional ladder or use a more dangerous method of climbing onto the structure.

- » Support 500 lbs. live load at end of arm
- » Arm length: 10' thru 30'
- » Meets or exceeds AAR and AASHTO requirements.

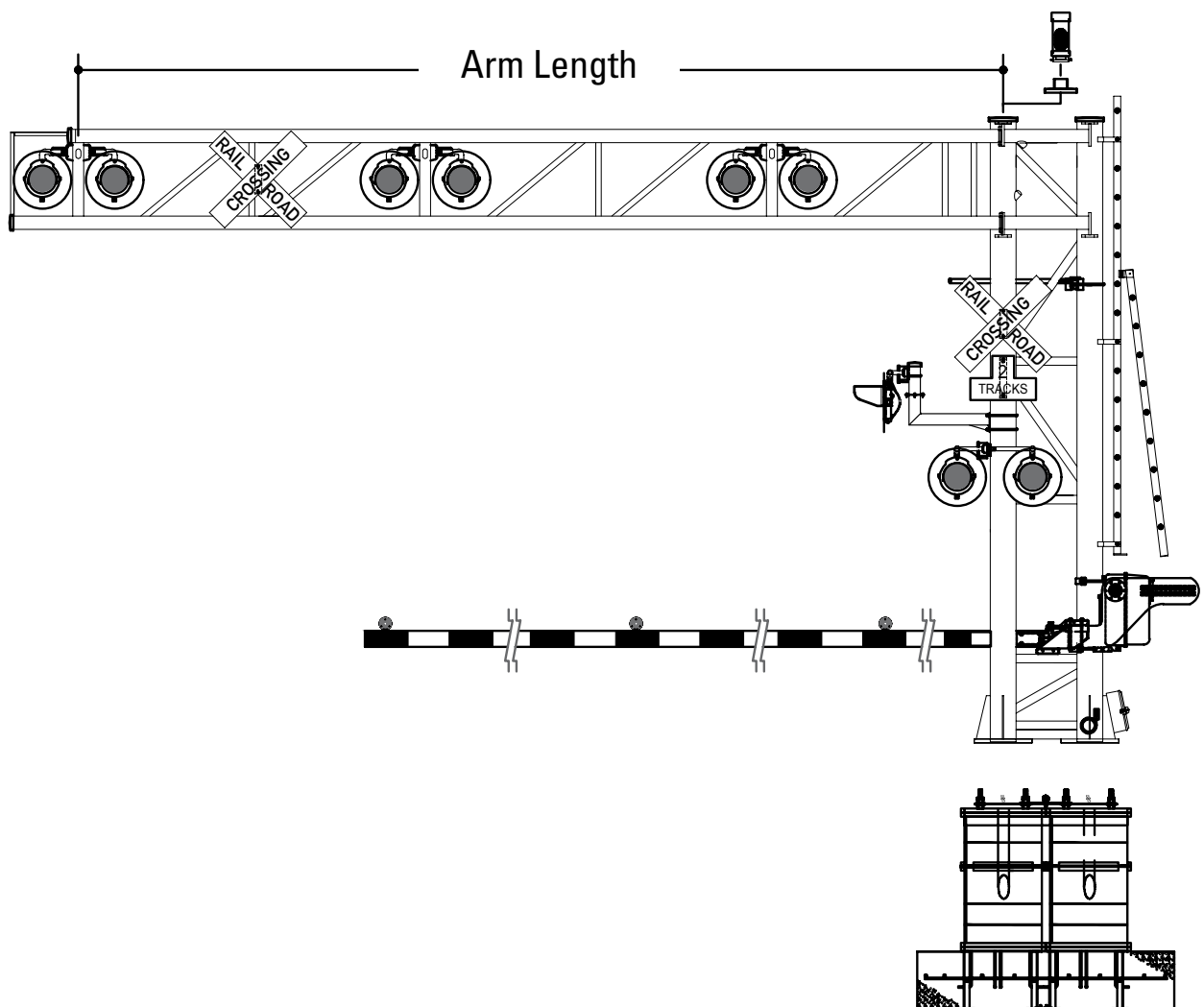


DOUBLE MAST CANTILEVER GATE COMBO ASSEMBLY

3

Progress Rail also manufactures a double mast walkout cantilever gate combo. Offering the same standard features as our single mast gate combo, these structures have arm lengths of 31'-0" to 40'-0" and are used for wider highway crossing. As with our single mast combos these structures are provided with our patented "Slide Safety Ladder" for safer and easier servicing.

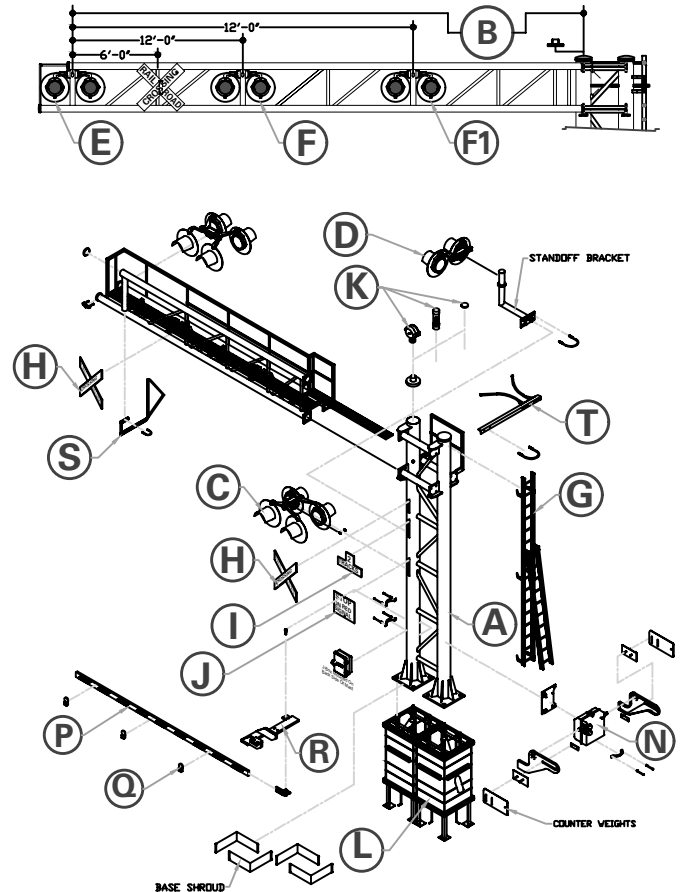
- » Support 500 lbs. live load at end of arm
- » Arm length: 31' thru 40'
- » Meets or exceeds AAR and AASHTO requirements.



DOUBLE MAST CANTILEVER GATE COMBO ASSEMBLY

A	MAST	ROADSIDE: <input type="checkbox"/> RH <input type="checkbox"/> LH JUNCTION BOX: <input type="checkbox"/> 20 INCH X 12 INCH NO BOTTOM COUPLING <input type="checkbox"/> 20 INCH X 20 INCH WITH 4 INCH BOTTOM COUPLING ERICO GROUND WIRE: <input type="checkbox"/> 6'-0" <input type="checkbox"/> 8'-0" <input type="checkbox"/> NONE
B	ARM LENGTH	____ FEET ____ INCHES
C	MAST LIGHTS	CROSSARM: <input type="checkbox"/> 1-WAY <input type="checkbox"/> 2-WAY INCANDESCENT: (FRONT) ____ LEN ____ VOLTS ____ WATTS (REAR) ____ LEN ____ VOLTS ____ WATTS 12" LED INSERTS: <input type="checkbox"/> RDG-6 <input type="checkbox"/> GELCORE <input type="checkbox"/> ELECTROTECH <input type="checkbox"/> RDG-12 <input type="checkbox"/> DIA LIGHT FLX 4000 <input type="checkbox"/> OTHER: _____ BACKGROUNDS: <input type="checkbox"/> 24" Dia. <input type="checkbox"/> 20" Dia. <input type="checkbox"/> ALUM. <input type="checkbox"/> STEEL <input type="checkbox"/> PLASTIC
D	MAST SIDE LIGHTS	CROSSARM: <input type="checkbox"/> 1-WAY <input type="checkbox"/> 2-WAY INCANDESCENT: (FRONT) ____ LEN ____ VOLTS ____ WATTS (REAR) ____ LEN ____ VOLTS ____ WATTS 12" LED INSERTS: <input type="checkbox"/> RDG-6 <input type="checkbox"/> GELCORE <input type="checkbox"/> ELECTROTECH <input type="checkbox"/> RDG-12 <input type="checkbox"/> DIA LIGHT FLX 4000 <input type="checkbox"/> OTHER: _____ BACKGROUNDS: <input type="checkbox"/> 24" Dia. <input type="checkbox"/> 20" Dia. <input type="checkbox"/> ALUM. <input type="checkbox"/> STEEL <input type="checkbox"/> PLASTIC <input type="checkbox"/> 36" SIDE STREET STAND-OFF BRACKET
E	ARM TIP LIGHTS	CROSSARM: <input type="checkbox"/> 1-WAY <input type="checkbox"/> 2-WAY INCANDESCENT: (FRONT) ____ LEN ____ VOLTS ____ WATTS (REAR) ____ LEN ____ VOLTS ____ WATTS 12" LED INSERTS: <input type="checkbox"/> RDG-6 <input type="checkbox"/> GELCORE <input type="checkbox"/> ELECTROTECH <input type="checkbox"/> RDG-12 <input type="checkbox"/> DIA LIGHT FLX 4000 <input type="checkbox"/> OTHER: _____ BACKGROUNDS: <input type="checkbox"/> 24" Dia. <input type="checkbox"/> 20" Dia. <input type="checkbox"/> ALUM. <input type="checkbox"/> STEEL <input type="checkbox"/> PLASTIC
F	ARM LANE LIGHTS	CROSSARM: <input type="checkbox"/> 1-WAY <input type="checkbox"/> 2-WAY INCANDESCENT: (FRONT) ____ LEN ____ VOLTS ____ WATTS (REAR) ____ LEN ____ VOLTS ____ WATTS 12" LED INSERTS: <input type="checkbox"/> RDG-6 <input type="checkbox"/> GELCORE <input type="checkbox"/> ELECTROTECH <input type="checkbox"/> RDG-12 <input type="checkbox"/> DIA LIGHT FLX 4000 <input type="checkbox"/> OTHER: _____ BACKGROUNDS: <input type="checkbox"/> 24" Dia. <input type="checkbox"/> 20" Dia. <input type="checkbox"/> ALUM. <input type="checkbox"/> STEEL <input type="checkbox"/> PLASTIC
F1	ARM LANE LIGHTS	CROSSARM: <input type="checkbox"/> 1-WAY <input type="checkbox"/> 2-WAY INCANDESCENT: (FRONT) ____ LEN ____ VOLTS ____ WATTS (REAR) ____ LEN ____ VOLTS ____ WATTS 12" LED INSERTS: <input type="checkbox"/> RDG-6 <input type="checkbox"/> GELCORE <input type="checkbox"/> ELECTROTECH <input type="checkbox"/> RDG-12 <input type="checkbox"/> DIA LIGHT FLX 4000 <input type="checkbox"/> OTHER: _____ BACKGROUNDS: <input type="checkbox"/> 24" Dia. <input type="checkbox"/> 20" Dia. <input type="checkbox"/> ALUM. <input type="checkbox"/> STEEL <input type="checkbox"/> PLASTIC
G	LADDER	<input type="checkbox"/> SAFETY SLIDE LADDER <input type="checkbox"/>
H	CROSSING SIGN	LOCATION: <input type="checkbox"/> ARM <input type="checkbox"/> MAST REFLECTIVE SHEETING: <input type="checkbox"/> HI-INTENSITY <input type="checkbox"/> 2 INCH REFLECTIVE STRIP ON BACK: <input type="checkbox"/> 6 INCH <input type="checkbox"/> BACK TO BACK LETTERING <input type="checkbox"/> CROSSING SIGN MOUNTING BRACKET ON THE BACK SIDE OF MAST <input type="checkbox"/> CROSSING SIGN MOUNTING BRACKET ON THE BACK SIDE OF ARM
I	TRACK SIGNS	____ NUMBER OF TRACKS REFLECTIVE SHEETING: <input type="checkbox"/> HI-INTENSITY
J	STOP ON RED SIGN	REFLECTIVE SHEETING: <input type="checkbox"/> HI-INTENSITY
K	BELL OR PINNACLE	<input type="checkbox"/> PINNACLE <input type="checkbox"/> LOUD TONE BELL <input type="checkbox"/> ELECTRONIC

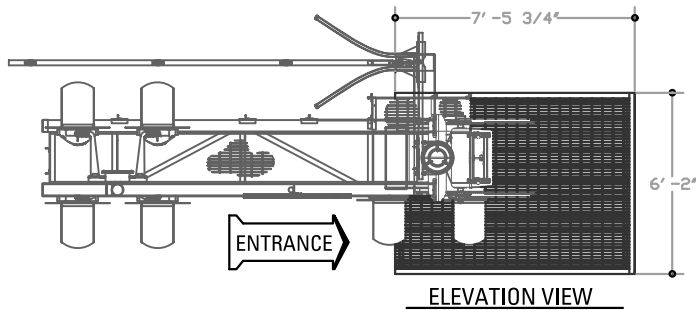
L	DOUBLE MAST FOUNDATION	<input type="checkbox"/> PRECAST LEAVE IN PLACE FORMS: <input type="checkbox"/> 5 FT. <input type="checkbox"/> 7 FT.
M	WIRING HARNESS Not Shown On Drawing	<input type="checkbox"/> #10 TC BLUE OKONITE <input type="checkbox"/> #10 BLACK BRAIDED <input type="checkbox"/> 5C#10 OKONITE
N	GATE MECH	<input type="checkbox"/> WESTERN-CULLEN-HAYES 3597 <input type="checkbox"/> SIEMENS S-60 <input type="checkbox"/> OTHERS: _____ <input type="checkbox"/> ENTRANCE GATE <input type="checkbox"/> EXIT GATE NOTES: _____
P	GATE ARM	LENGTH: ____ FEET <input type="checkbox"/> STANDARD <input type="checkbox"/> HIGH WIND PROFILE TYPE: <input type="checkbox"/> ALUM / FIBERGLASS <input type="checkbox"/> FIBERGLASS <input type="checkbox"/> ALUMINUM REFLECTIVE SHEETING: <input type="checkbox"/> HI-INTENSITY SHEETING: <input type="checkbox"/> VERTICAL <input type="checkbox"/> HORIZONTAL
Q	GATE LIGHTS	<input type="checkbox"/> LED <input type="checkbox"/> 4" ROUND <input type="checkbox"/> LOW PROFILE <input type="checkbox"/> INCANDESCENT
R	CONVERSION BRACKET	<input type="checkbox"/> RH CONVERSION BRACKET <input type="checkbox"/> RH CONVERSION BRACKET <input type="checkbox"/> 2-WAY GATE SAVER CONVERSION BRACKET
S	DEFLECTOR BRACKET	<input type="checkbox"/> YES
T	HIGH WIND BRACKET	<input type="checkbox"/> YES



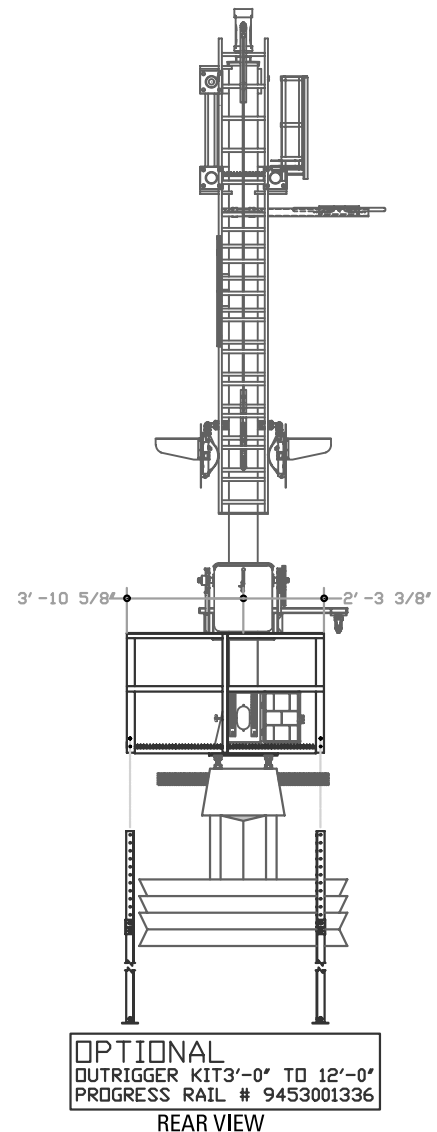
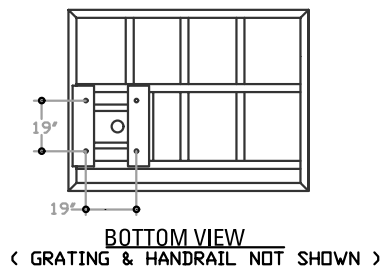
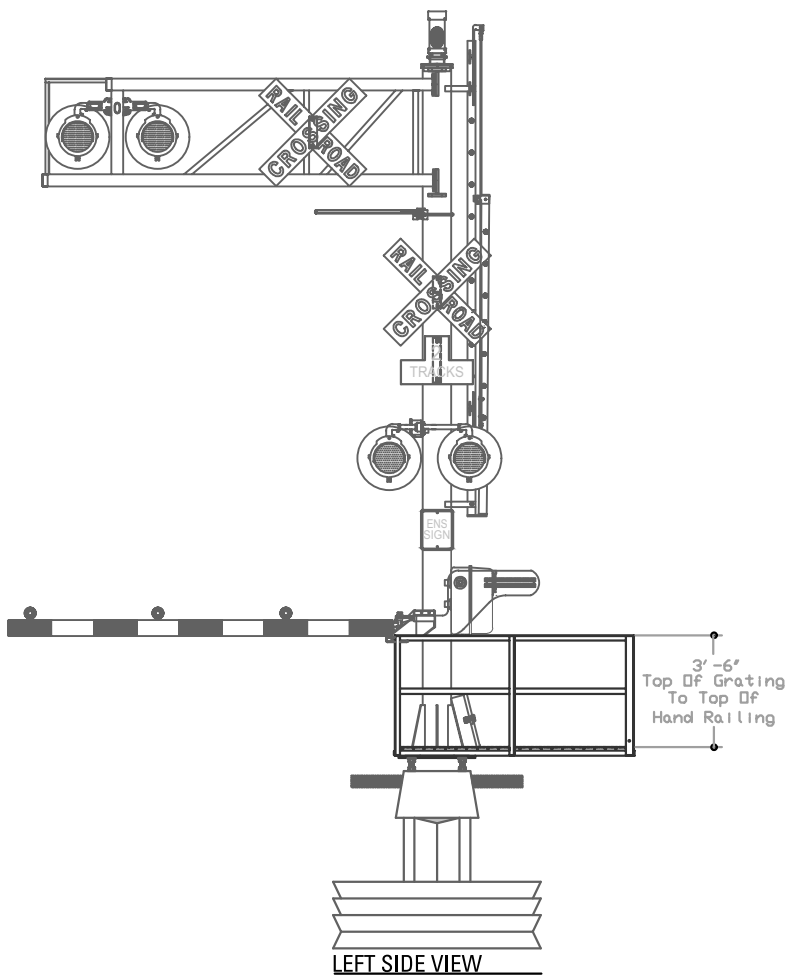
HIGHWAY COMBO ACCESS PLATFORM

PART# 9453001338

The Highway Crossing Platform makes it easy to do any type of maintenance on the cantilever, on any given landscape slope.



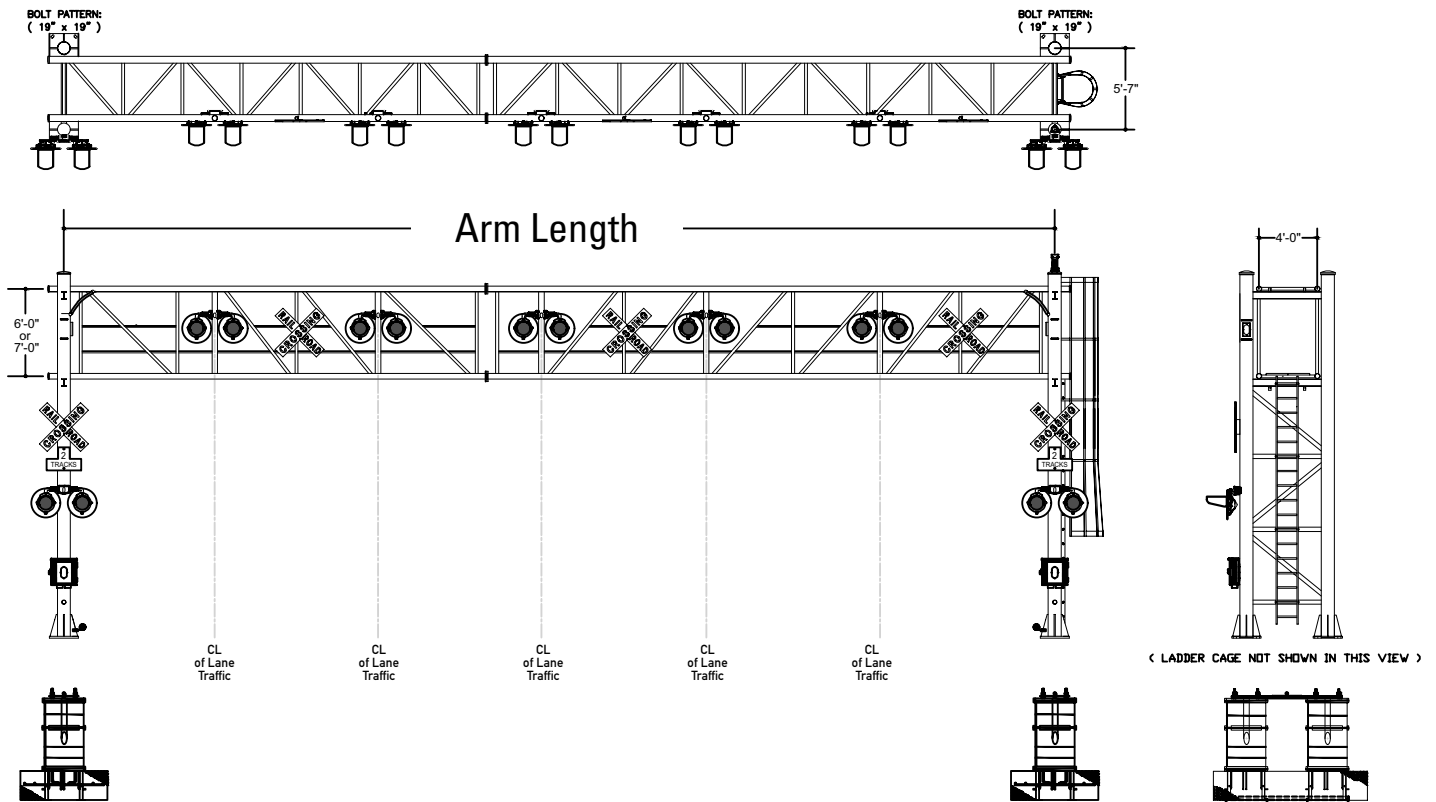
- » Excellent for steep grade slopes
- » All aluminum construction
- » Sturdy handrail on three sides
- » Aluminum serrated floor grating



HIGHWAY BRIDGE

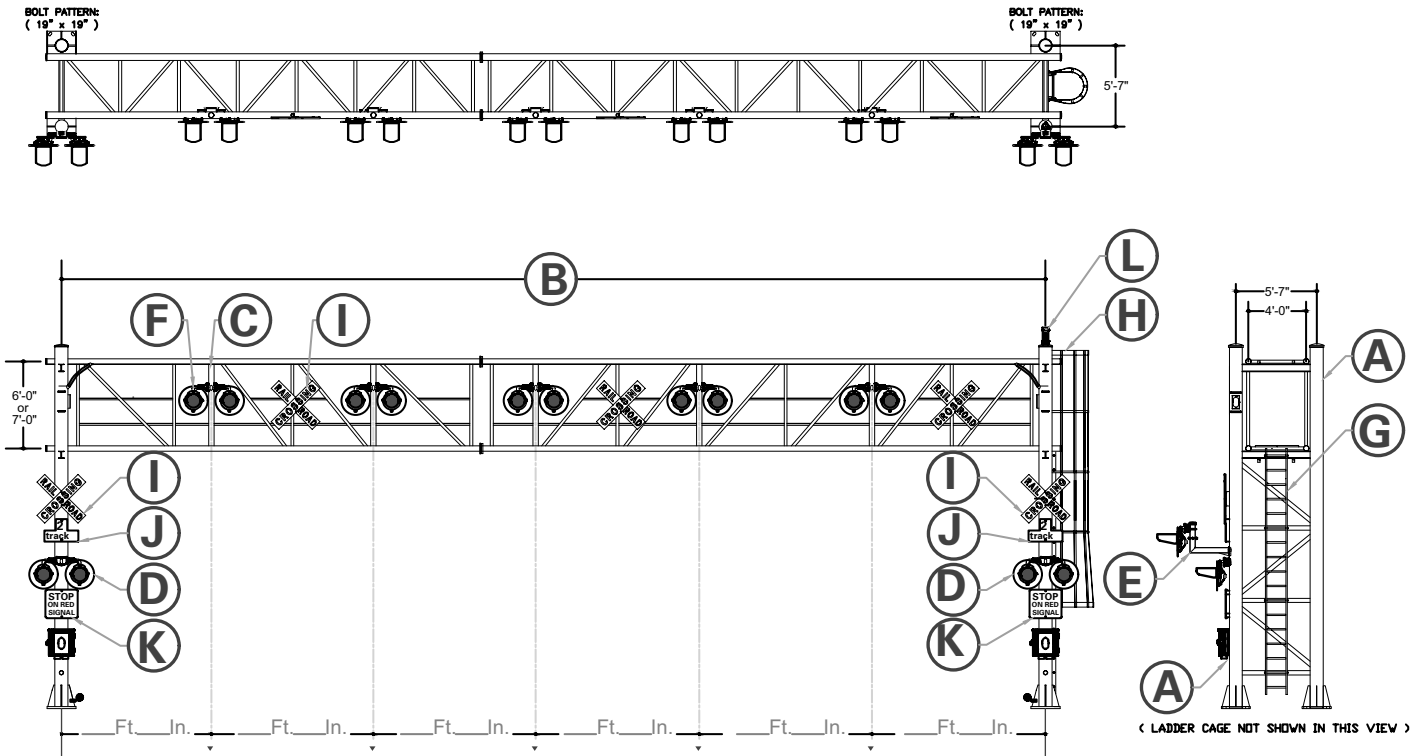
For three or more lanes of traffic, Progress Rail offers a Highway Bridge. Highway Bridges can accommodate a full compliment of side streetlights and signs. For ease of field installation, sign and flashing light mounting angles are welded directly to the bridge mast.

The bridge has a non-slip walkway grating for the entire length of the arm. Progress Rail bridge arm design provides for an easy eight U-bolt installation of the arm to the mast. The mast will accept a bell or standard pinnacle. The structure is constructed with 6061-T6 aluminum and is designed to meet AAR specifications. A galvanized steel mast can be supplied if required, to be used with an aluminum arm.

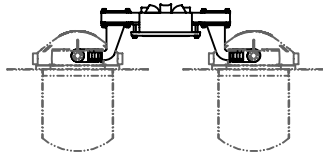


A	MAST	JUNCTION BOX: <input type="checkbox"/> 20 INCH X 12 INCH NO BOTTOM COUPLING <input type="checkbox"/> 20 INCH X 20 INCH WITH 4 INCH BOTTOM COUPLING ERICO GROUND WIRE: <input type="checkbox"/> 6'-0" <input type="checkbox"/> 8'-0" <input type="checkbox"/> NONE
B	ARM LENGTH	____ FEET ____ INCHES <input type="checkbox"/> 4 FT. X 6 FT. <input type="checkbox"/> 4 FT. X 7 FT.
C	JURY MAST	<input type="checkbox"/> FRONT JURY MAST (ONLY) <input type="checkbox"/> BACK TO BACK
D	MAST LIGHTS	CROSSARM: <input type="checkbox"/> 1-WAY <input type="checkbox"/> 2-WAY QTY. _____ INCANDESCENT: (FRONT) ____ LEN ____ VOLTS ____ WATTS (REAR) ____ LEN ____ VOLTS ____ WATTS 12" LED INSERTS: <input type="checkbox"/> RDG-6 <input type="checkbox"/> GELCORE <input type="checkbox"/> ELECTROTECH <input type="checkbox"/> RDG-12 <input type="checkbox"/> DIA LIGHT FLX 4000 <input type="checkbox"/> OTHER: _____ BACKGROUNDS: <input type="checkbox"/> 24" Dia. <input type="checkbox"/> 20" Dia. <input type="checkbox"/> ALUM. <input type="checkbox"/> STEEL <input type="checkbox"/> PLASTIC
E	MAST SIDE LIGHTS	CROSSARM: <input type="checkbox"/> 1-WAY <input type="checkbox"/> 2-WAY INCANDESCENT: (FRONT) ____ LEN ____ VOLTS ____ WATTS (REAR) ____ LEN ____ VOLTS ____ WATTS 12" LED INSERTS: <input type="checkbox"/> RDG-6 <input type="checkbox"/> GELCORE <input type="checkbox"/> ELECTROTECH <input type="checkbox"/> RDG-12 <input type="checkbox"/> DIA LIGHT FLX 4000 <input type="checkbox"/> OTHER: _____ BACKGROUNDS: <input type="checkbox"/> 24" Dia. <input type="checkbox"/> 20" Dia. <input type="checkbox"/> ALUM. <input type="checkbox"/> STEEL <input type="checkbox"/> PLASTIC <input type="checkbox"/> 36" SIDE STREET STAND-OFF BRACKET
F	ARM LIGHTS	CROSSARM: <input type="checkbox"/> 1-WAY <input type="checkbox"/> 2-WAY INCANDESCENT: (FRONT) ____ LEN ____ VOLTS ____ WATTS (REAR) ____ LEN ____ VOLTS ____ WATTS 12" LED INSERTS: <input type="checkbox"/> RDG-6 <input type="checkbox"/> GELCORE <input type="checkbox"/> ELECTROTECH <input type="checkbox"/> RDG-12 <input type="checkbox"/> DIA LIGHT FLX 4000 <input type="checkbox"/> OTHER: _____ BACKGROUNDS: <input type="checkbox"/> 24" Dia. <input type="checkbox"/> 20" Dia. <input type="checkbox"/> ALUM. <input type="checkbox"/> STEEL <input type="checkbox"/> PLASTIC

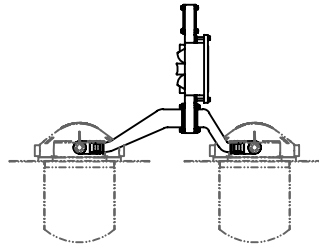
G	LADDER	<input type="checkbox"/> 16" WIDE STRAIGHT FIXED LADDER (SHOWN) <input type="checkbox"/> 16" WIDE SLOPING LADDER
H	LADDER SAFETY	<input type="checkbox"/> SURE CLIMB SAFETY CABLE ASSY <input type="checkbox"/> LADDER CAGE(SHOWN)
I	CROSSING SIGN	LOCATION: <input type="checkbox"/> ARM <input type="checkbox"/> MAST REFLECTIVE SHEETING: <input type="checkbox"/> HI-INTENSITY <input type="checkbox"/> 2 INCH <input type="checkbox"/> 6 INCH REFLECTIVE STRIP ON BACK: _____ <input type="checkbox"/> BACK TO BACK LETTERING <input type="checkbox"/> CROSSING SIGN MOUNTING BRACKET ON THE BACK SIDE OF MAST <input type="checkbox"/> CROSSING SIGN MOUNTING BRACKET ON THE BACK SIDE OF ARM
J	TRACK SIGNS	____ NUMBER OF TRACKS REFLECTIVE SHEETING: <input type="checkbox"/> HI-INTENSITY
K	STOP ON RED SIGN	REFLECTIVE SHEETING: <input type="checkbox"/> HI-INTENSITY
L	BELL OR PINNACLE	<input type="checkbox"/> PINNACLE <input type="checkbox"/> LOUD TONE BELL <input type="checkbox"/> ELECTRONIC BELL
M	FOUNDATION Not Shown On Drawing	<input type="checkbox"/> PRECAST LEAVE IN PLACE FORMS: <input type="checkbox"/> 5 FT. <input type="checkbox"/> 7 FT.
N	WIRING HARNESS Not Shown On Drawing	<input type="checkbox"/> #10 TC BLUE OKONITE <input type="checkbox"/> #10 BLACK BRAIDED <input type="checkbox"/> 5CH10 OKONITE



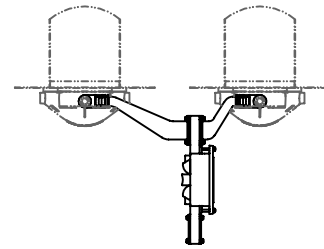
FLASHER & GATE FLASHER CROSSARM ASSEMBLIES



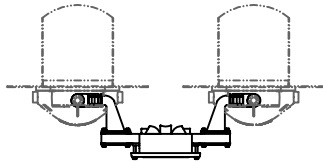
1-Way Crossarm Assembly
(414 Series)
(Flasher Front Lights)



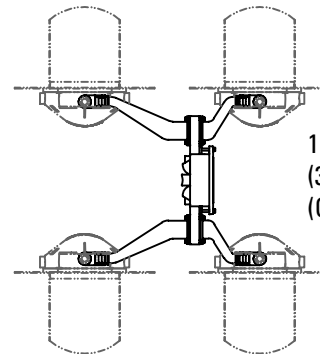
2-Way Crossarm Assembly
(307 Series)
(Gate Flasher Front Lights)



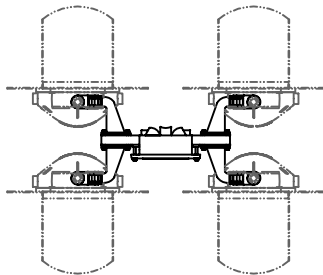
1-Way Crossarm Assembly
(308 Series)
(Gate Flasher Back Lights)



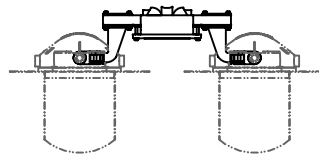
1-Way Crossarm Assembly
(415 Series)
(Flasher Back Lights)



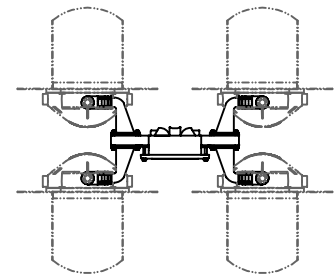
1-Way Crossarm Assembly
(304 Series)
(Gate Flashers 2-Way Lights)



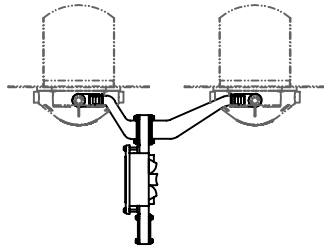
2-Way Crossarm Assembly
(420 Series)
(Flasher 2-Way Lights)



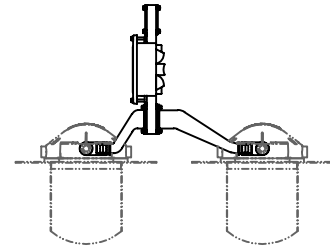
1-Way Crossarm Assembly
(414 Series)
(Gate Flasher Extra Side Street Lights)



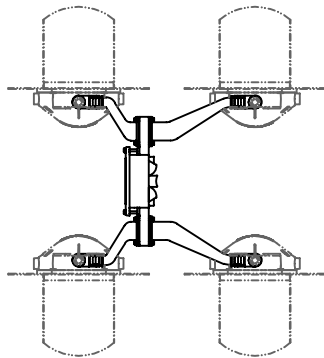
2-Way Crossarm Assembly
(420 Series)
(Gate Flasher Extra Side Street Lights)



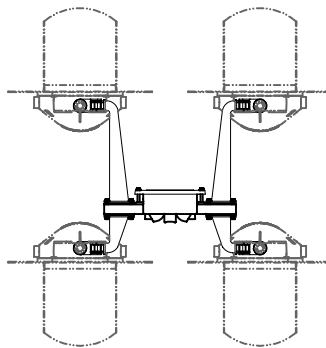
1-Way Crossarm Assembly
(307 Series)
(Cantilever Mast Back Lights)



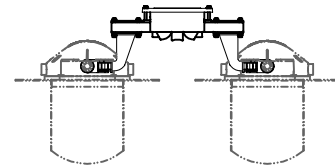
1-Way Crossarm Assembly
(308 Series)
(Cantilever Mast Front Lights)



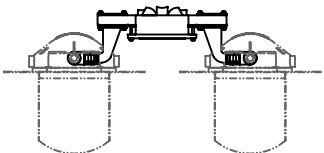
2-Way Crossarm Assembly
(304 Series)
(CantileverArm 2-Way Lights)



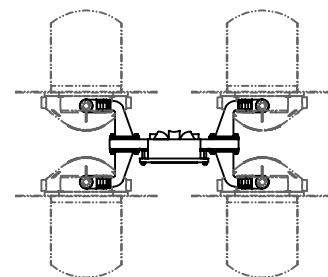
1-Way Crossarm Assembly
(311 Series)
(CantileverArm 2-Way Lights)



1-Way Crossarm Assembly
(415 Series)
(Cantilever Arm 1-Way Lights)

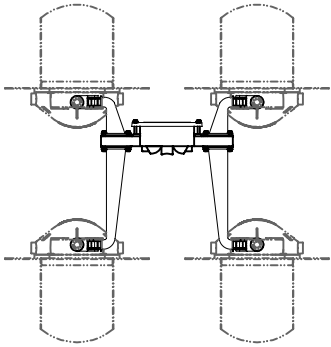


1-Way Crossarm Assembly
(414 Series)
(Cantilever Side Street Lights)

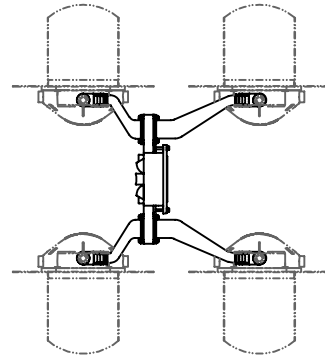


2-Way Crossarm Assembly
(420 Series)
(Cantilever Side Street Lights)

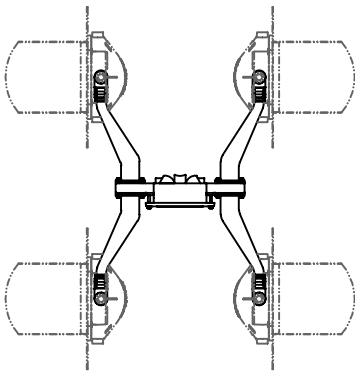
CUSTOM CROSSARM ASSEMBLIES



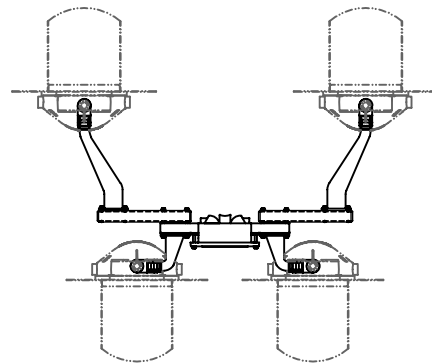
2-Way Crossarm Assembly
(511 Series)
(Custom)



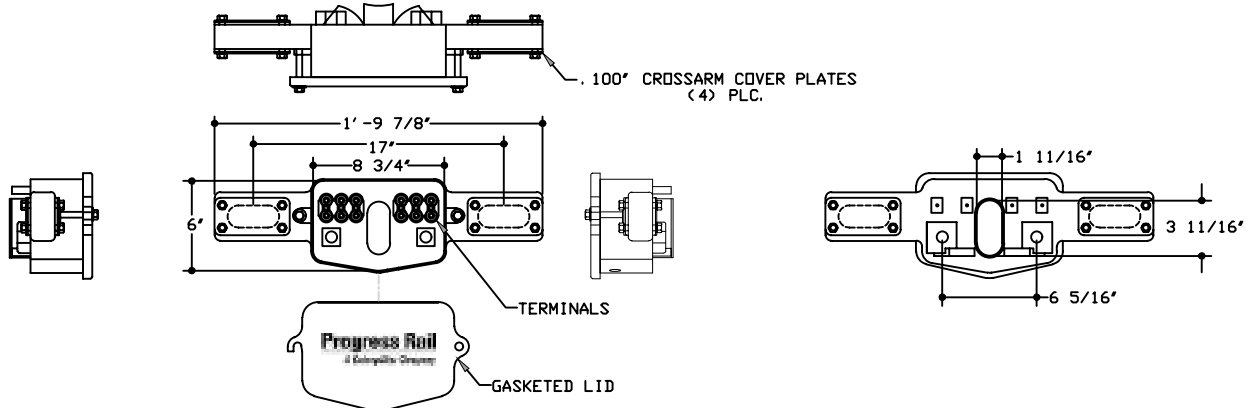
2-Way Crossarm Assembly
(334 Series)
(Custom)



2-Way Crossarm Assembly
(324 Series)
(Custom)

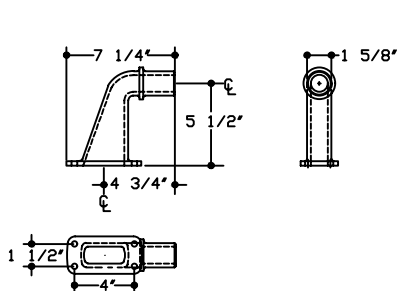


2-Way Crossarm Assembly
(611 Series)
(Custom)



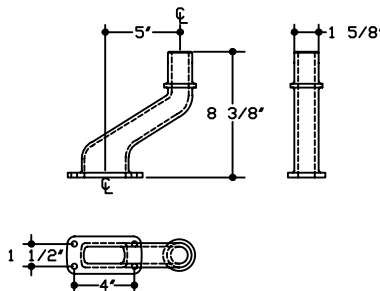
PART# 9451030299

Crossarm Junction Box With Gasket Lid, Terminals, and Cover Plates



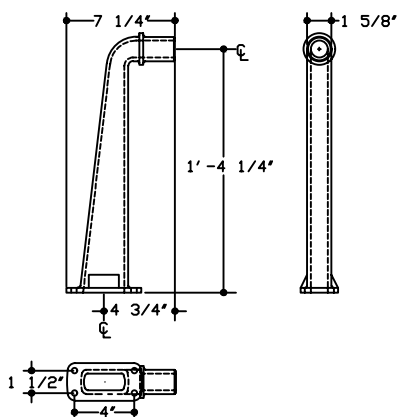
PART# 9451000049

5 1/2" Straight Horn



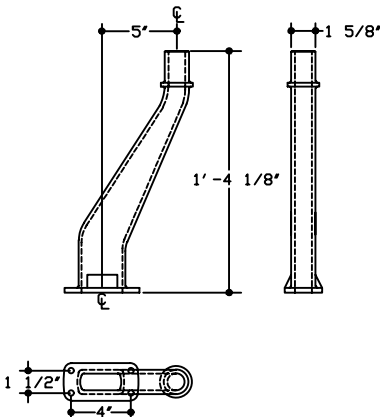
PART# 9451000047

8 3/8" Offset Horn



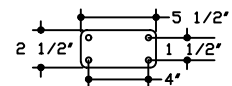
PART# 9451000050

16 1/4" Straight Horn



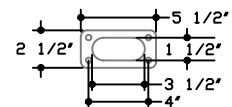
PART# 9451000048

16 1/8" Offset Horn



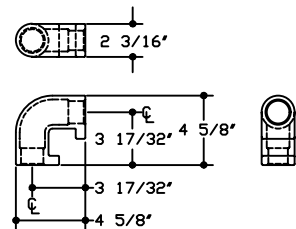
PART# 9451000015

.100" Crossarm Cover Plate



PART# 9451000020

1/16" Crossarm / Horn Neoprene Gasket



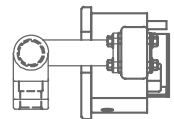
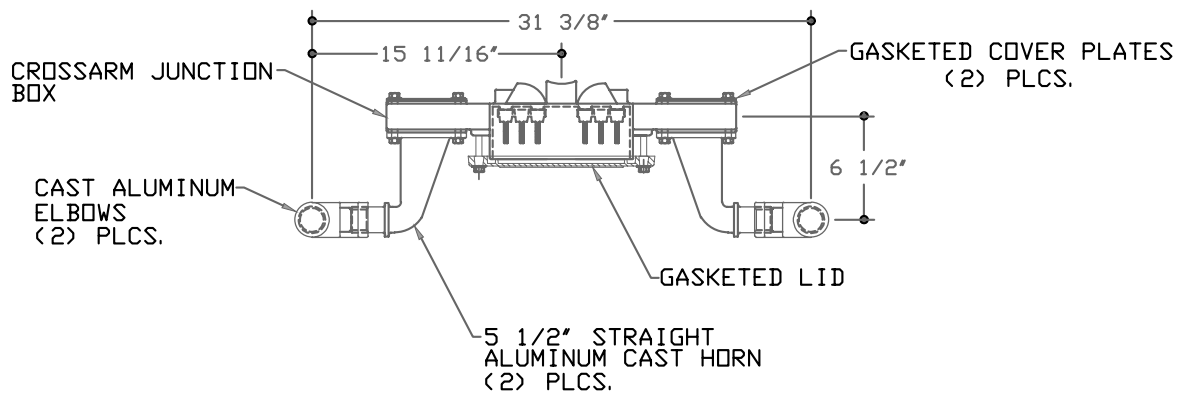
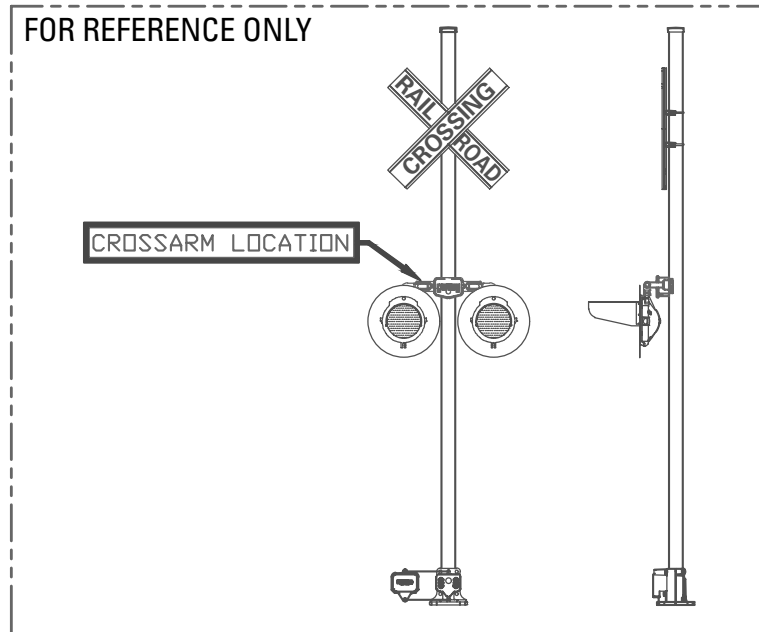
PART# 9451010212

Elbow

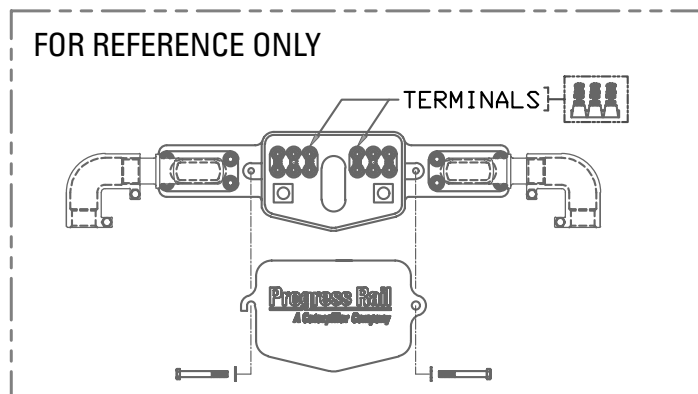
FLASHER ONE-WAY FRONT CROSSARM ASSMEMBLY

PART# 9451050414
414 SERIES

FOR REFERENCE ONLY



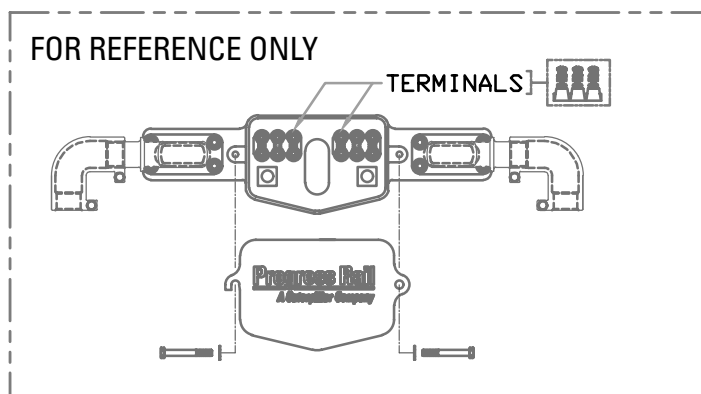
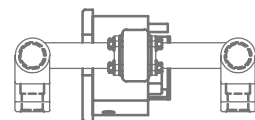
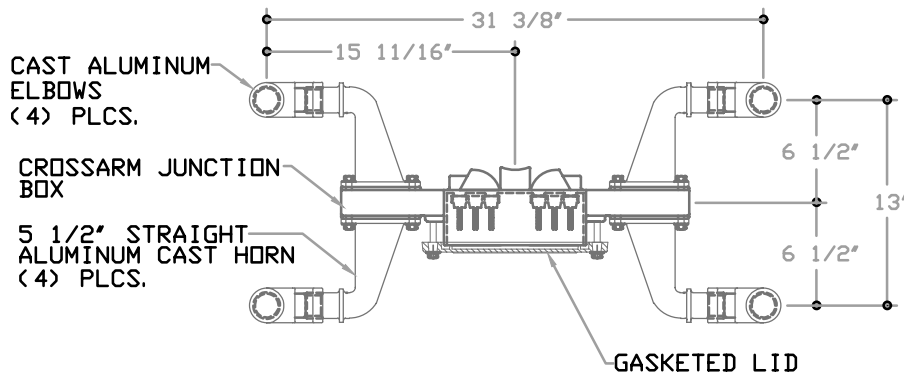
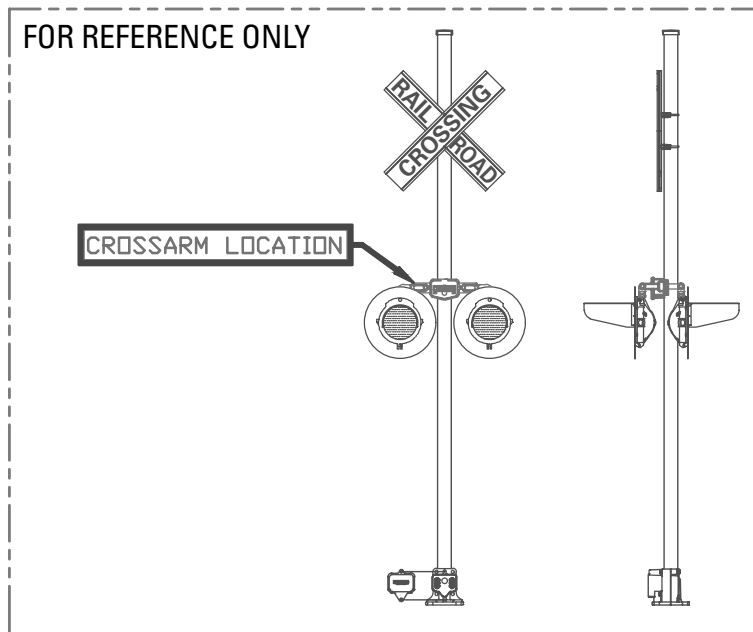
FOR REFERENCE ONLY



FLASHER, 420 SERIES TWO-WAY CROSSARM ASSEMBLY

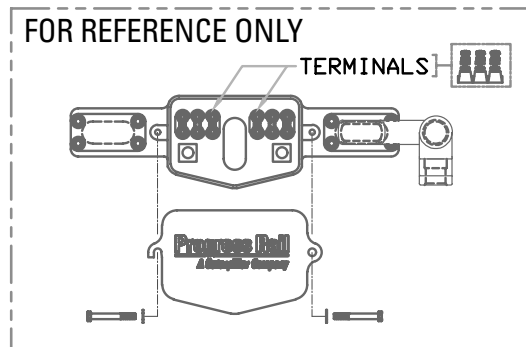
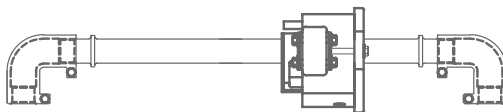
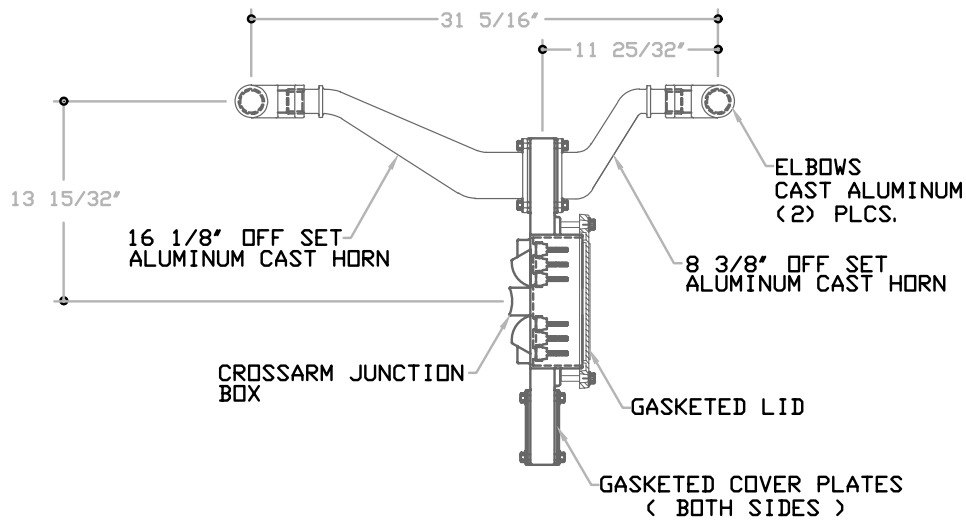
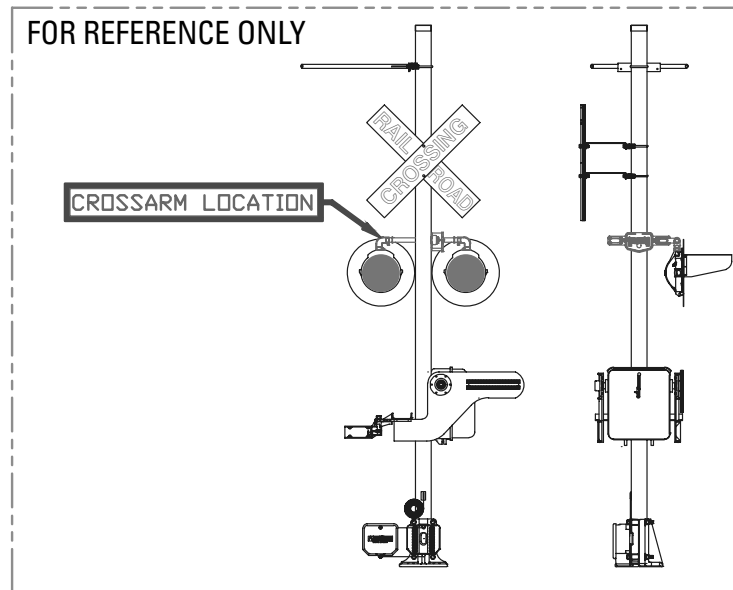
5

PART# 9451050420
420 SERIES



GATE FLASHER, ONE-WAY BACK LIGHTS CROSSARM ASSEMBLY

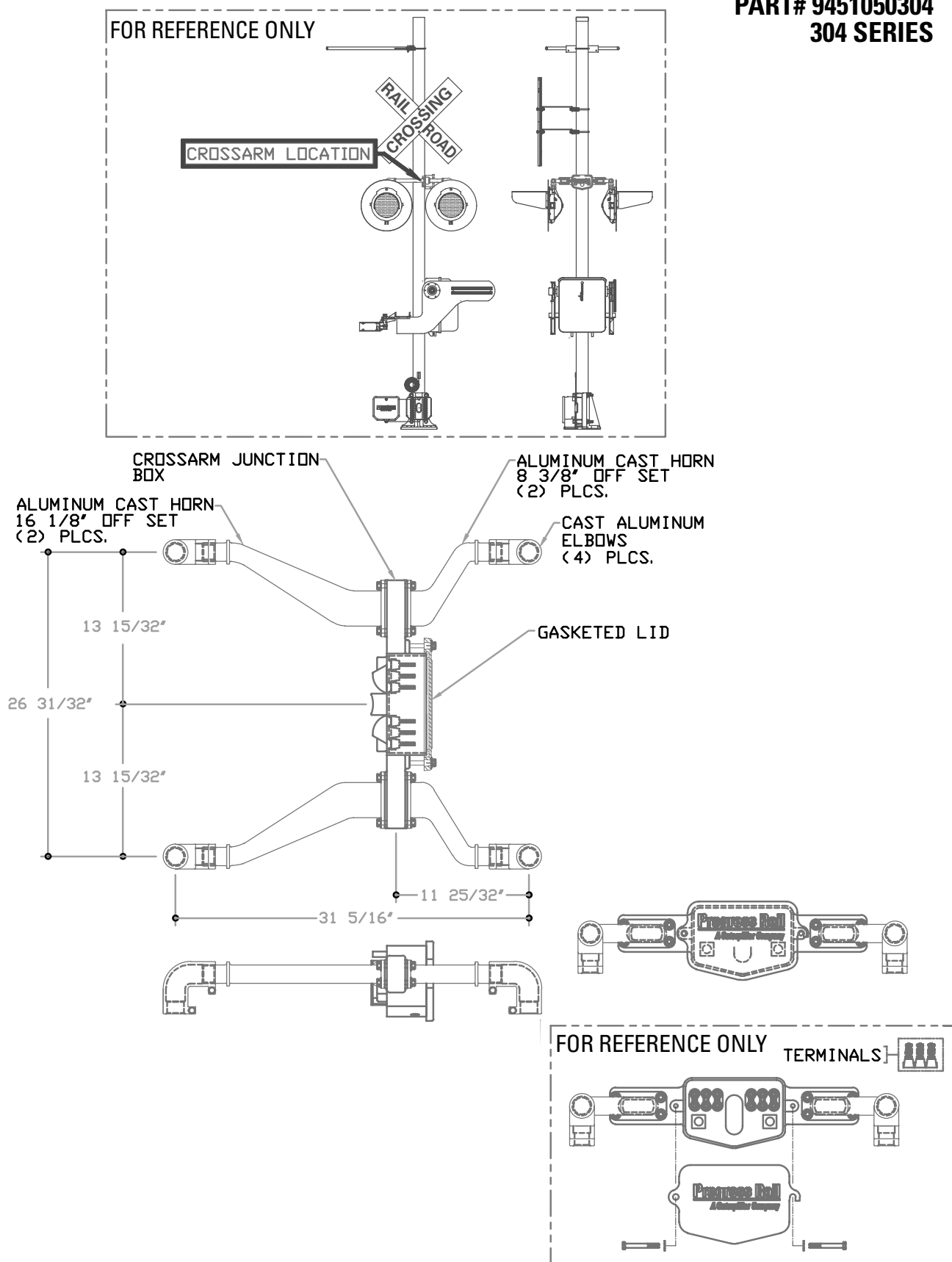
PART# 9451050308
308 SERIES



GATE FLASHER, TWO-WAY FRONT CROSSARM ASSEMBLY

5

PART# 9451050304
304 SERIES

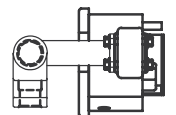
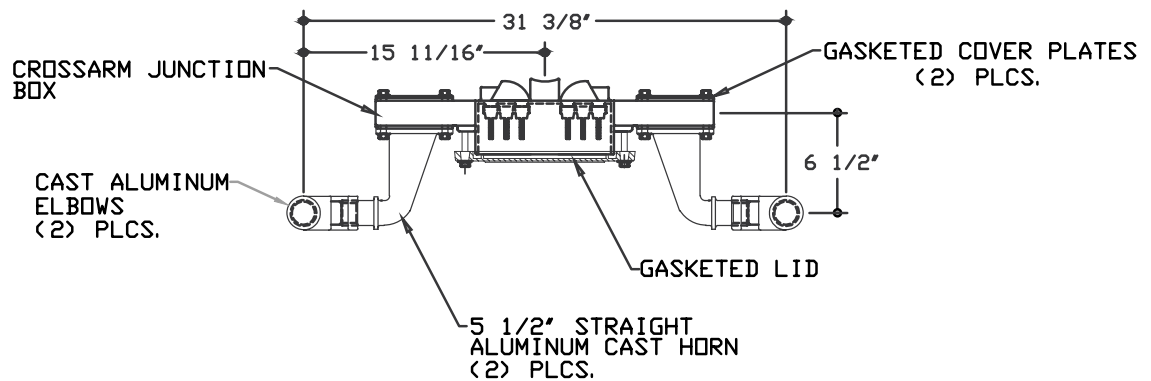
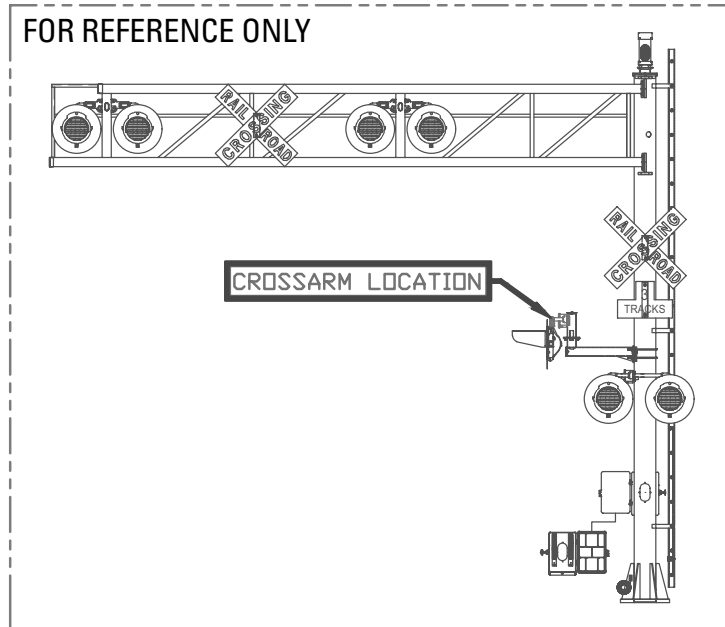


ONE-WAY SIDE STREET LIGHTS CROSSARM ASSEMBLY

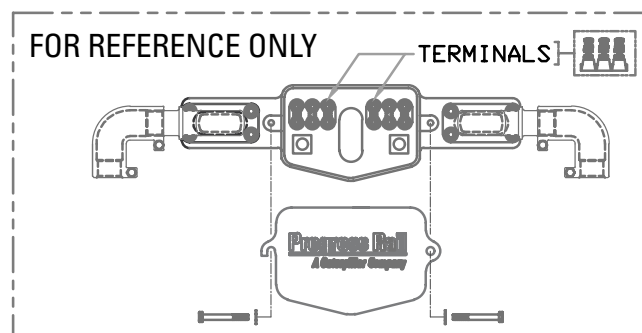
PART# 9451050414

414 SERIES

FOR REFERENCE ONLY



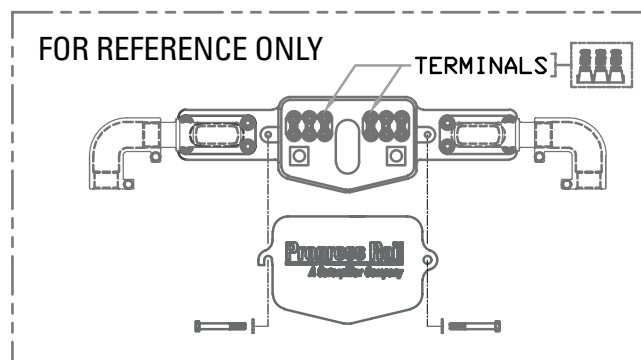
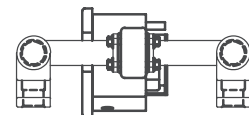
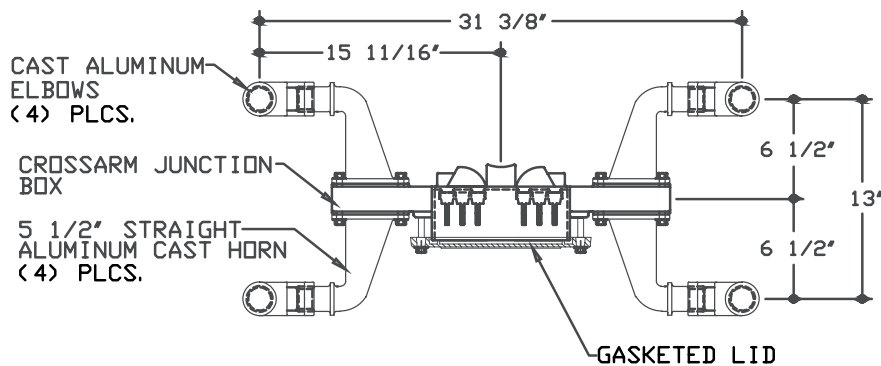
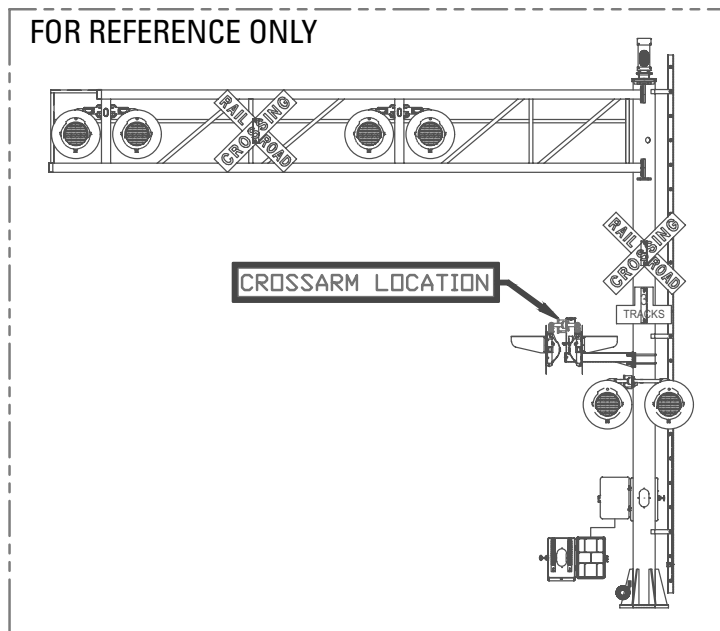
FOR REFERENCE ONLY



TWO-WAY SIDE STREET LIGHTS CROSSARM ASSEMBLY

5

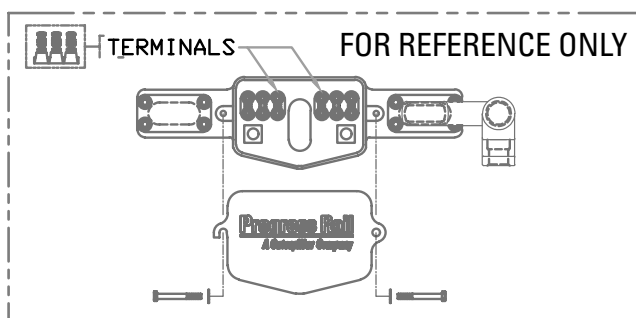
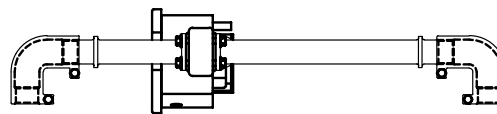
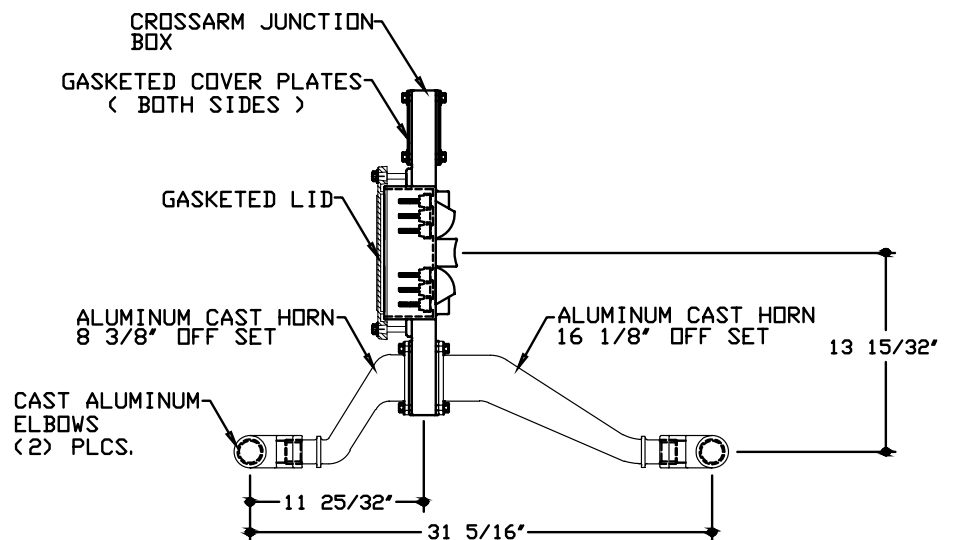
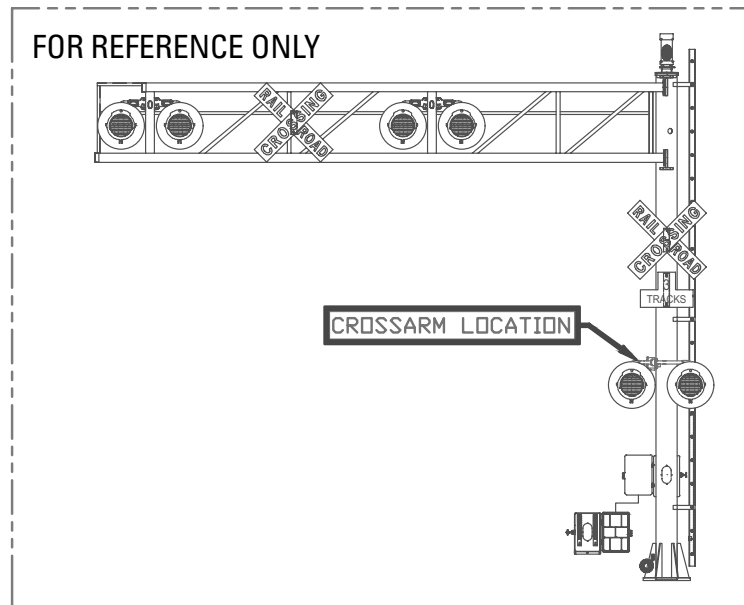
PART# 9451050420
420 SERIES



HIGHWAY CANTILEVER MAST, ONE-WAY FRONT LIGHTS CROSSARM ASSEMBLY

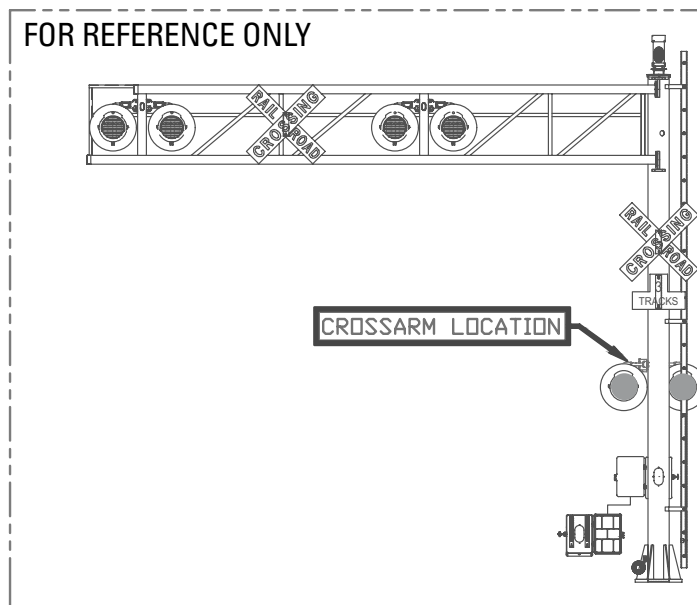
PART# 9451050308
308 SERIES

FOR REFERENCE ONLY

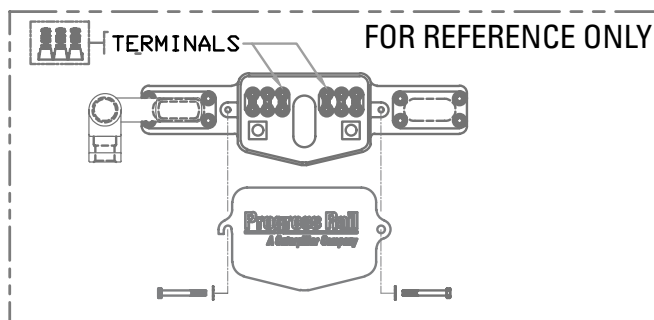
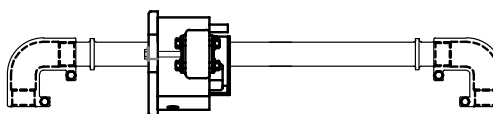
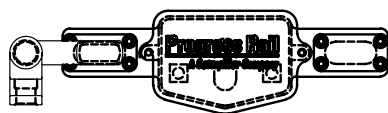
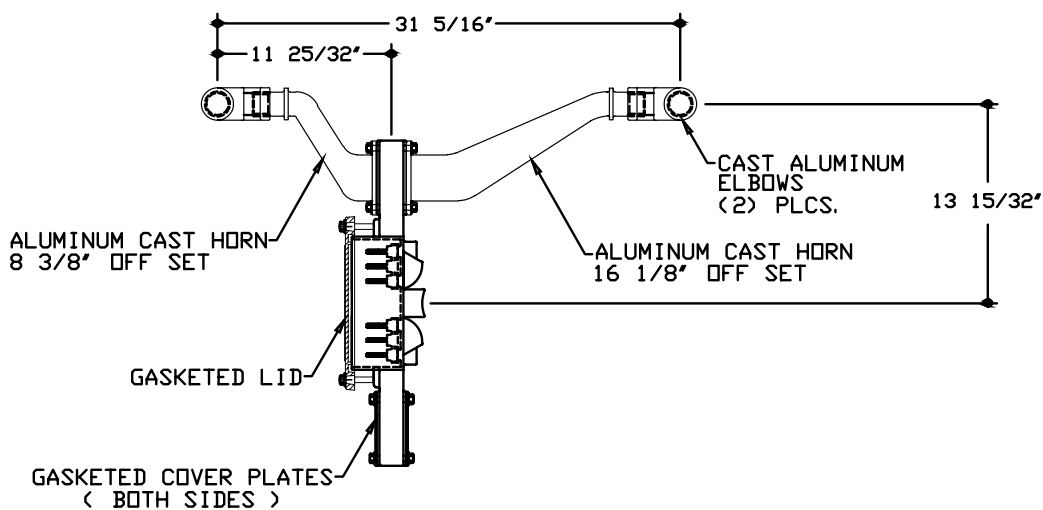


HIGHWAY CANTILEVER MAST, ONE-WAY BACK LIGHTS CROSSARM ASSEMBLY

5



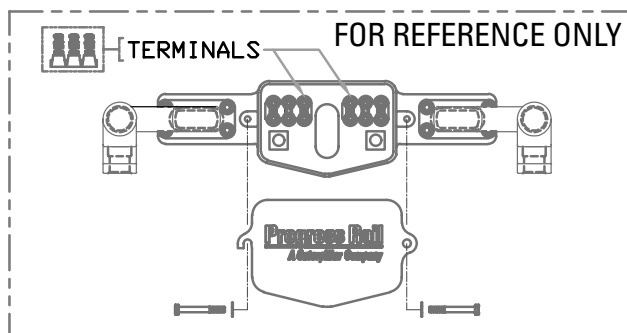
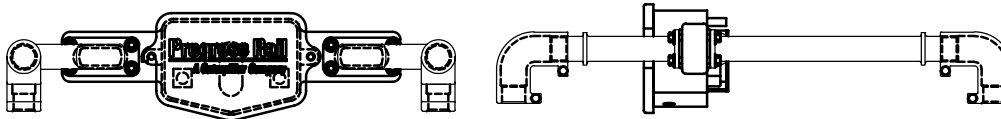
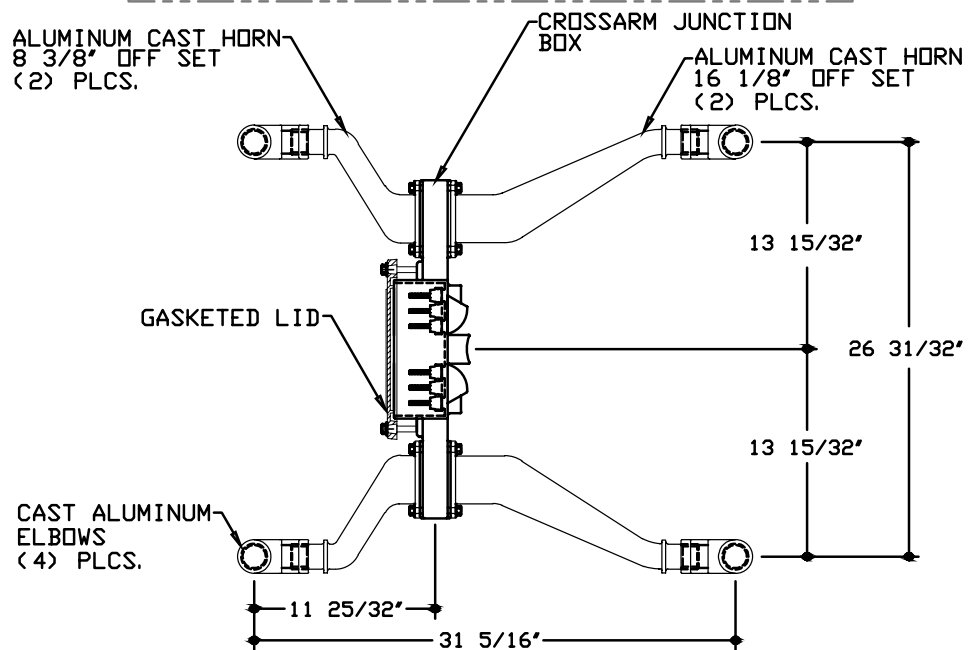
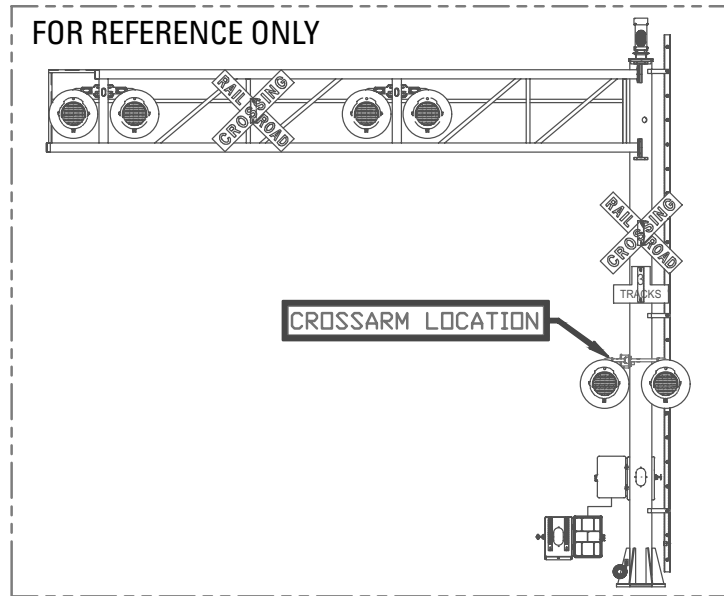
PART# 9451050307
307 SERIES



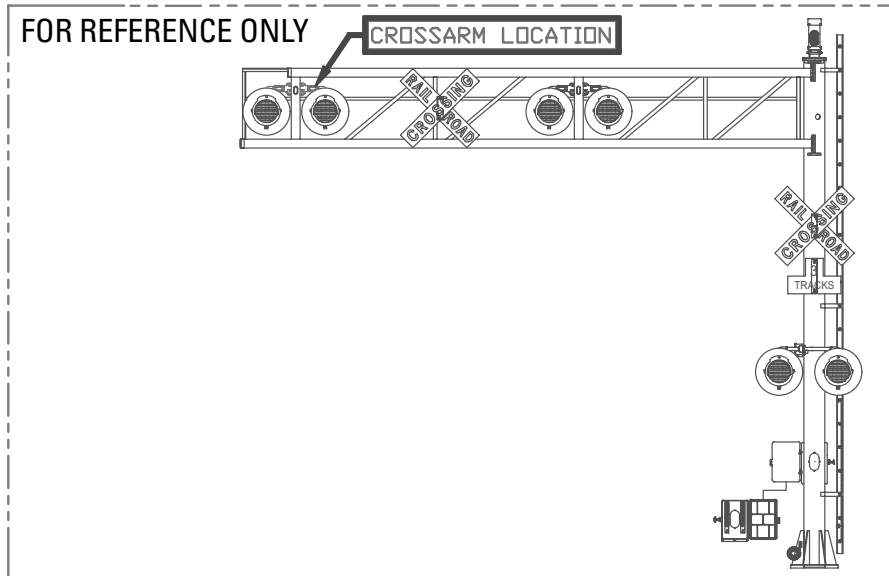
HIGHWAY CANTILEVER MAST, 2-WAY CROSSARM ASSEMBLY

PART# 9451050304

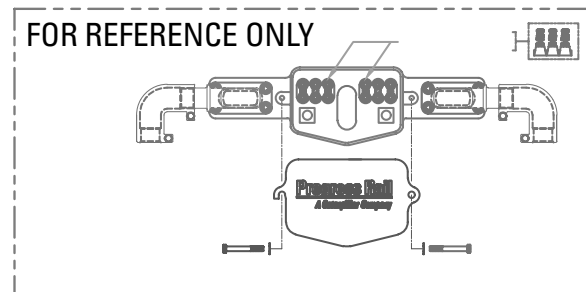
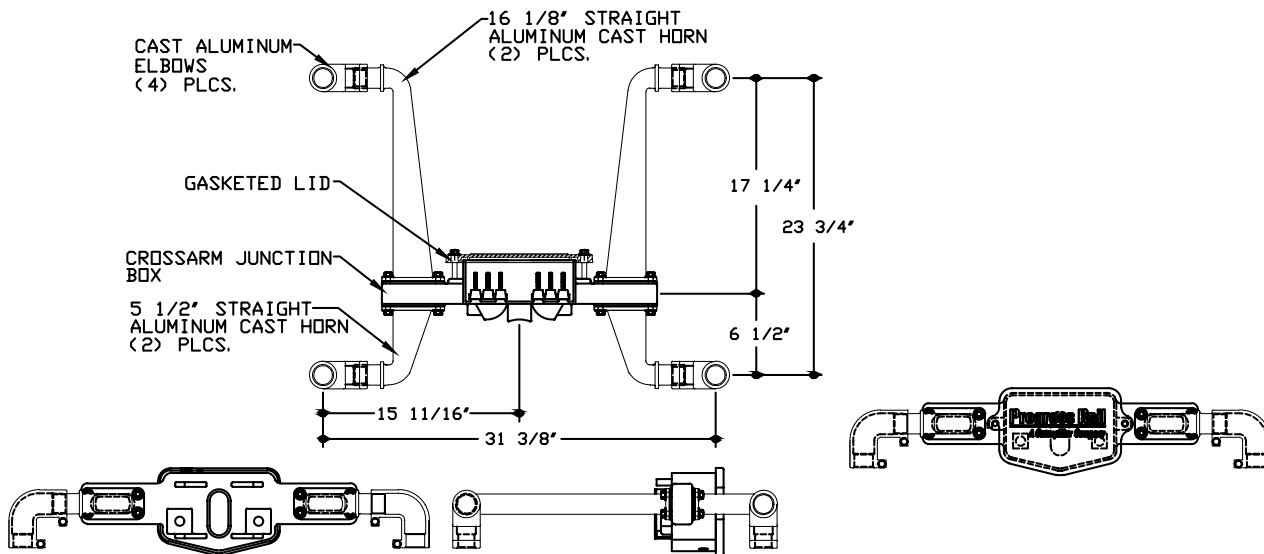
304 SERIES



HIGHWAY CANTILEVER ARM TIP LIGHTS, TWO-WAY CROSSARM ASSEMBLY



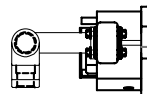
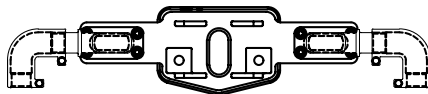
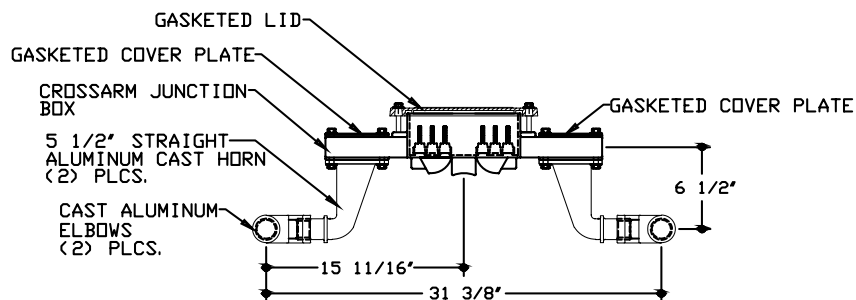
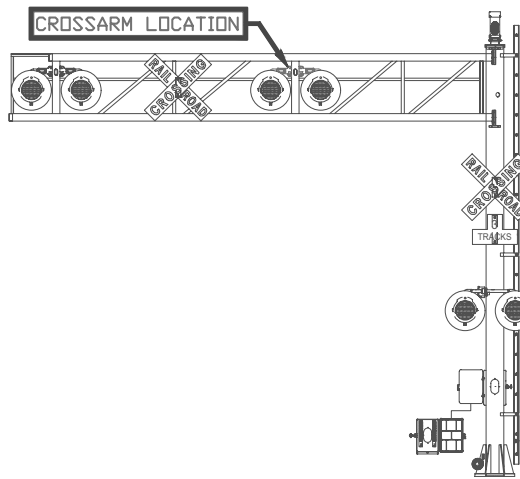
PART# 9451050311
311 SERIES



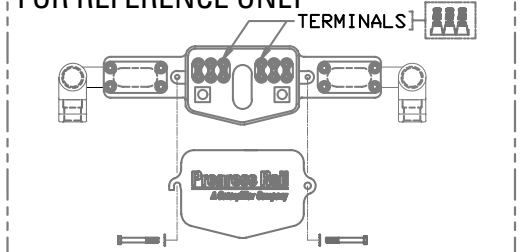
HIGHWAY CANTILEVER ARM LANE LIGHTS, ONE-WAY CROSSARM ASSEMBLY

PART# 9451050415
415 SERIES

FOR REFERENCE ONLY

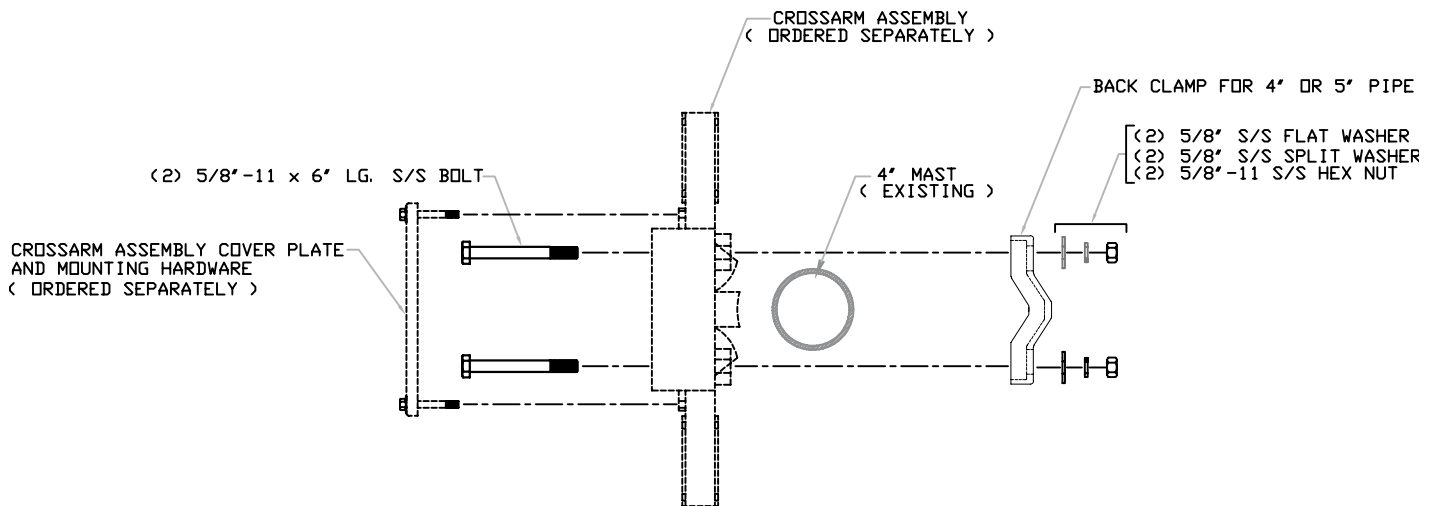


FOR REFERENCE ONLY



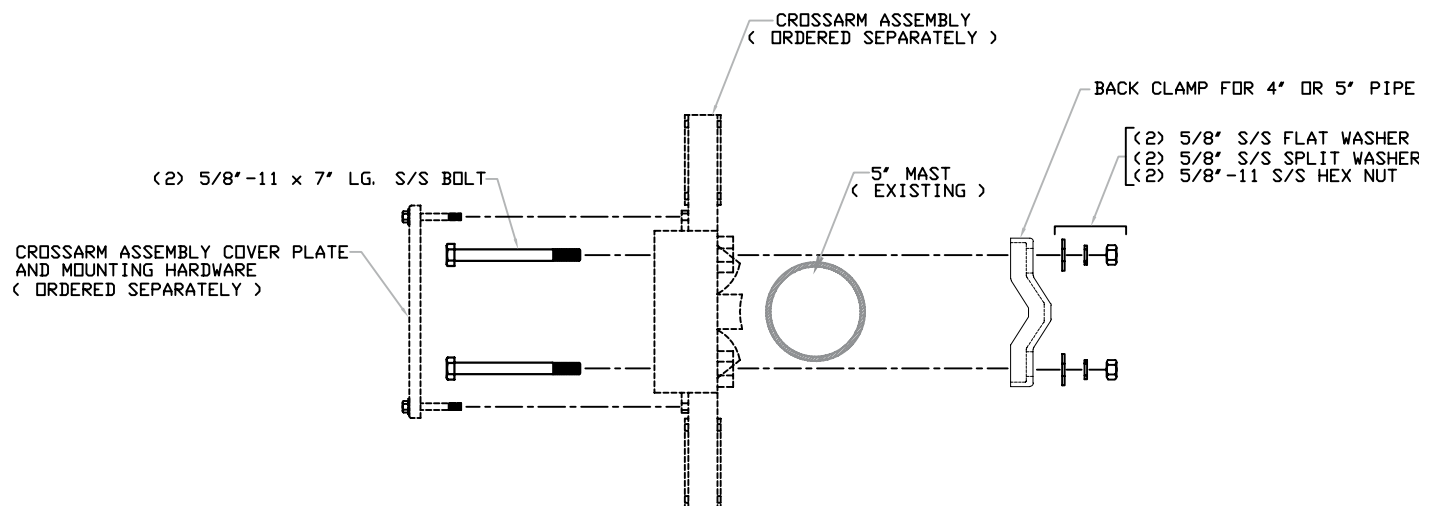
CROSSARM MOUNTING KITS – 4" - 5" MAST

5



PART# 9451080004

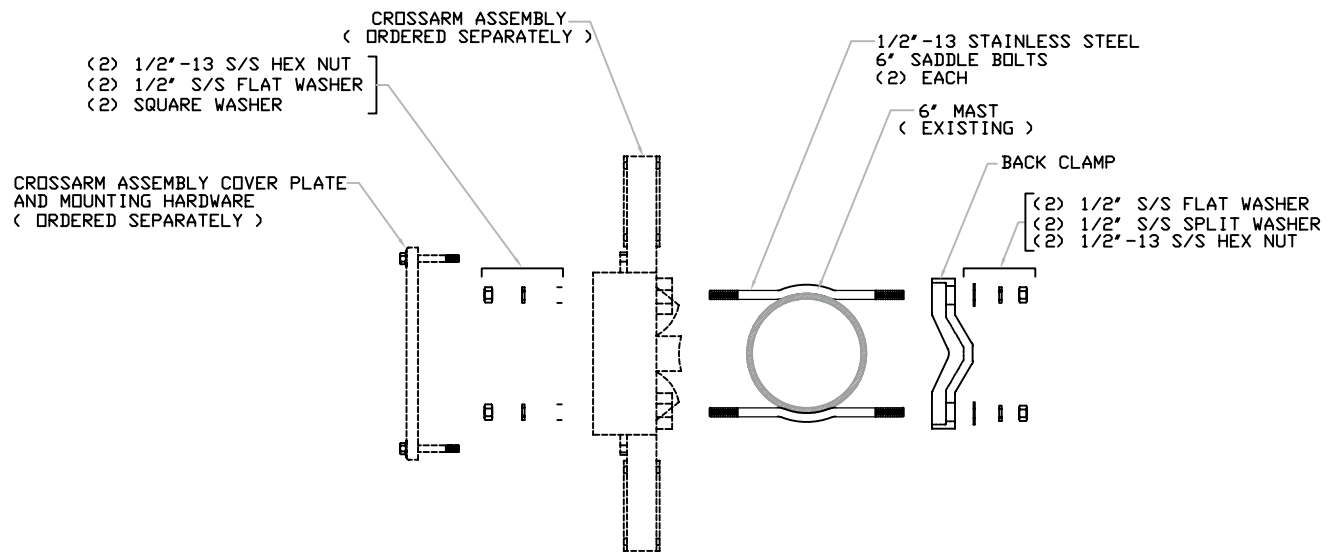
4" Crossarm Mounting Kit Assembly



PART# 9451080005

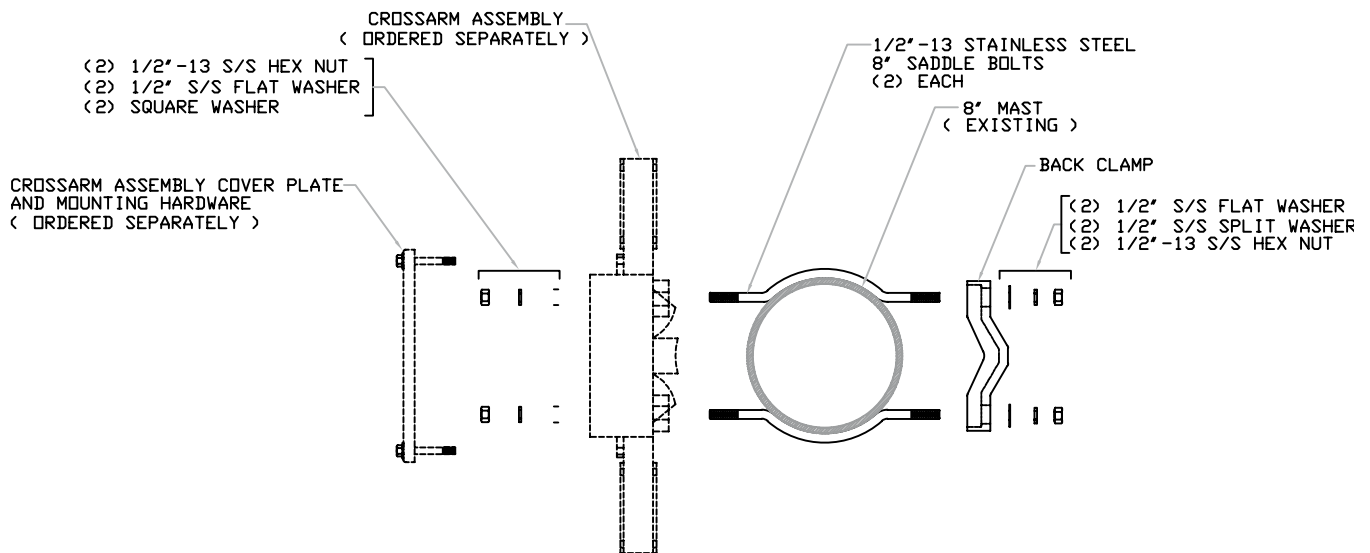
5" Crossarm Mounting Kit Assembly

CROSSARM MOUNTING KITS – 6" - 8" MAST



PART# 9451080006

6" Crossarm Mounting Kit Assembly

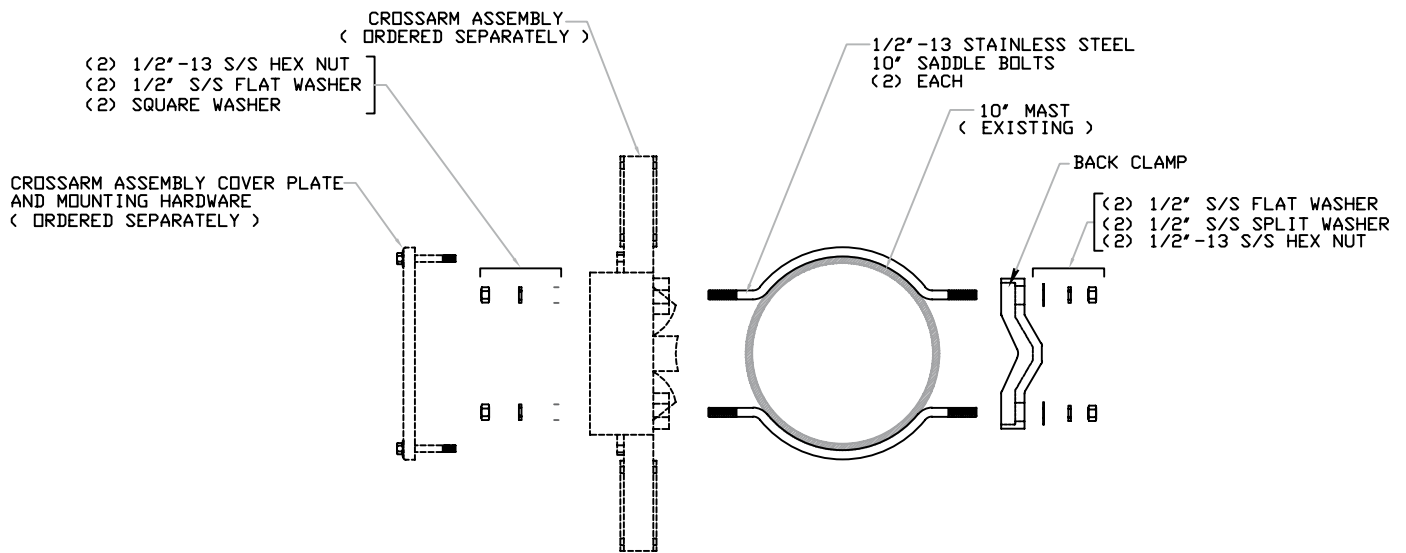


PART# 9451080008

8" Crossarm Mounting Kit Assembly

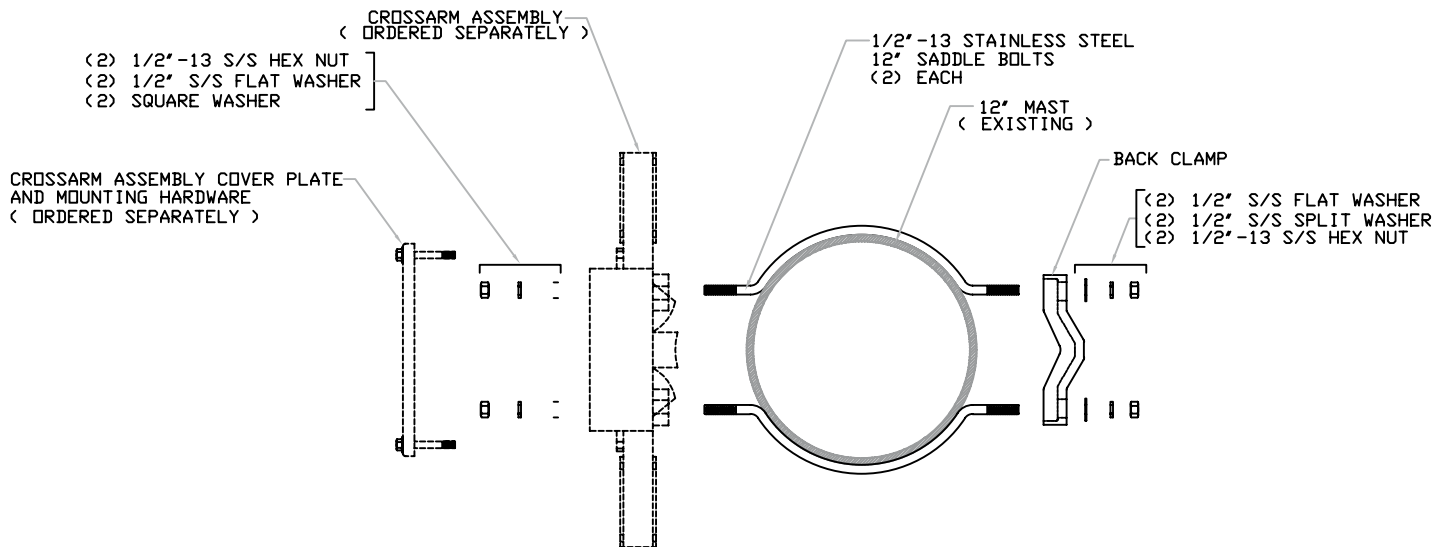
CROSSARM MOUNTING KITS – 10" - 12" MAST

5



PART# 9451000211

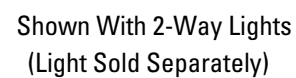
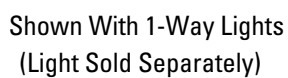
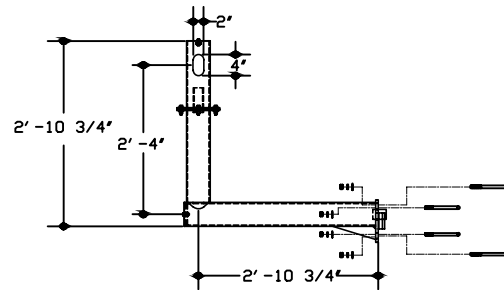
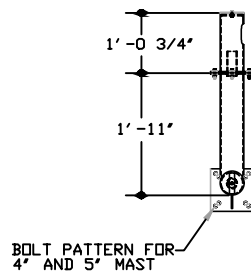
10" Crossarm Mounting Kit Assembly



PART# 9451000212

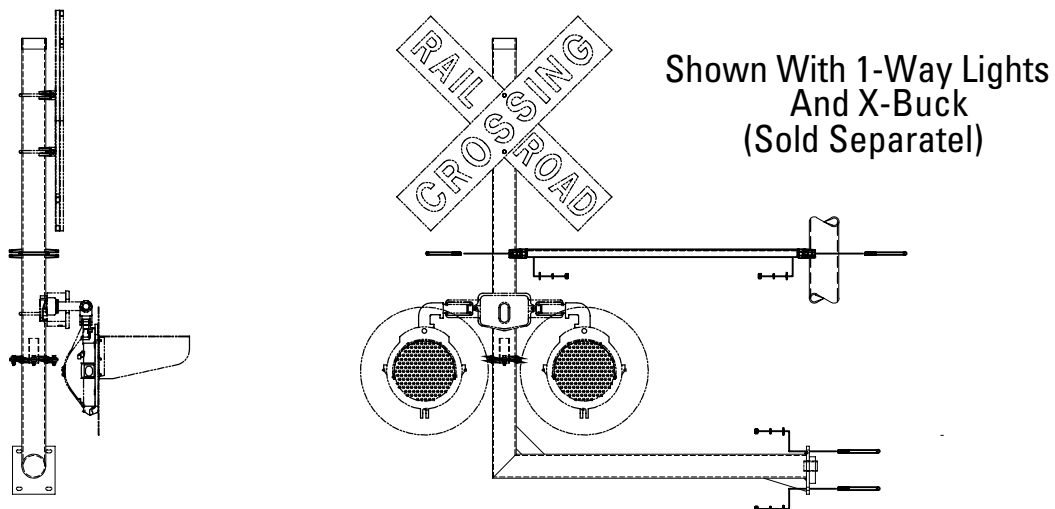
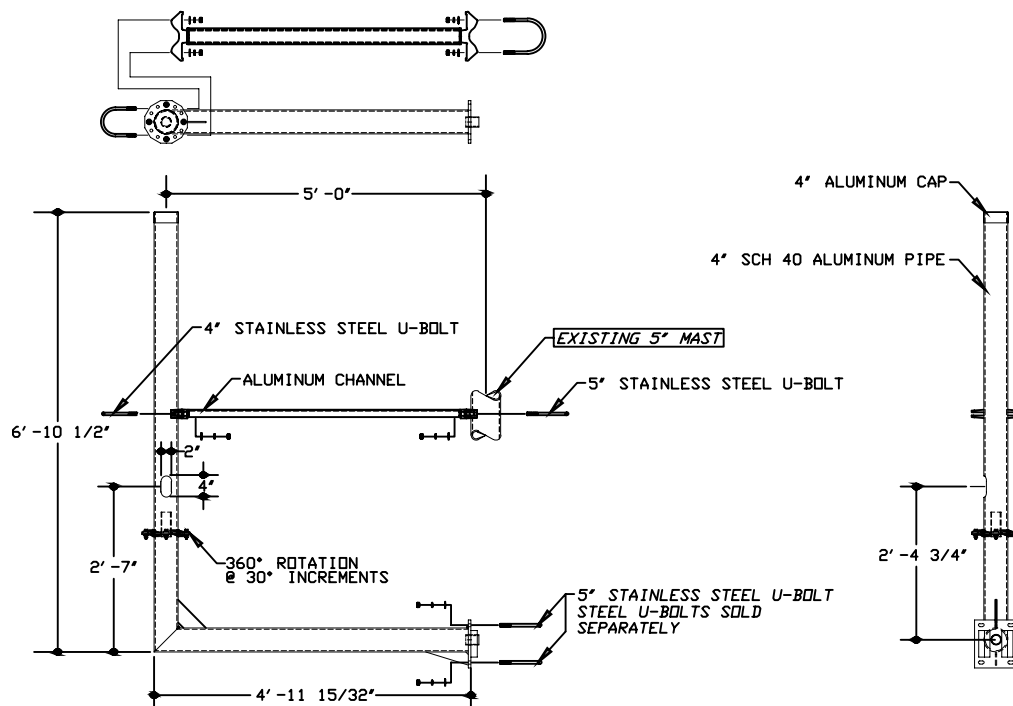
12" Crossarm Mounting Kit Assembly

Grade Crossing Aluminum Standoff Bracket for 4" - 5"



6

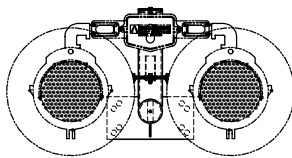
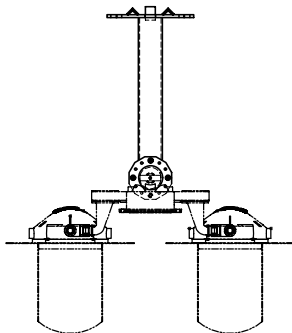
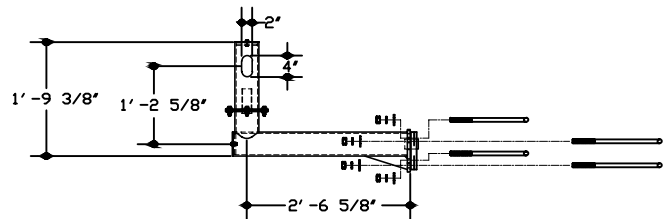
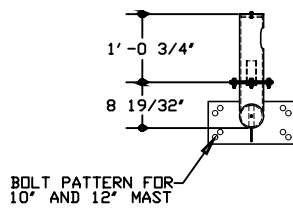
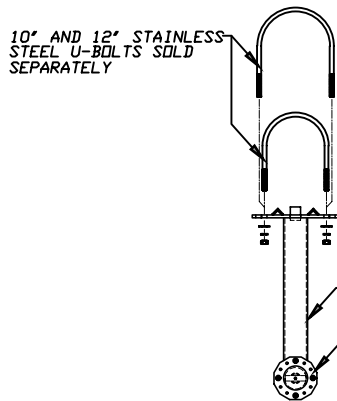
Grade Crossing Aluminum Custom Standoff Bracket For 5" Mast Mounting



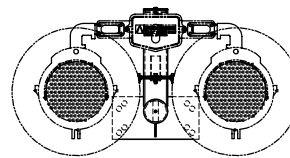
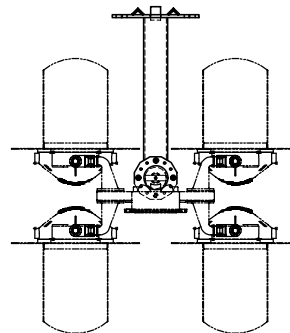
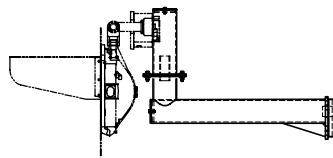
ALUMINUM CROSSING STANDOFF BRACKET FOR 10" - 12" MOUNTING

PART# 9451060134

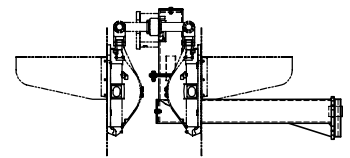
Grade Crossing Aluminum Standoff
Bracket For 10" or 12" Mounting



Shown With 1-Way Lights
(Light Sold Separately)



Shown With 2-Way Lights
(Light Sold Separately)

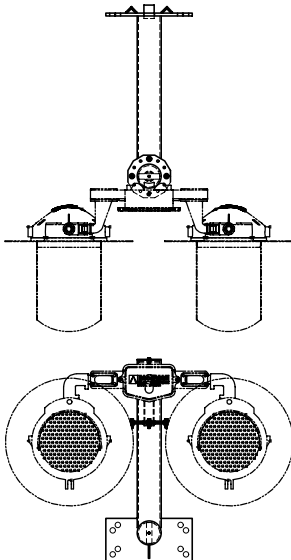
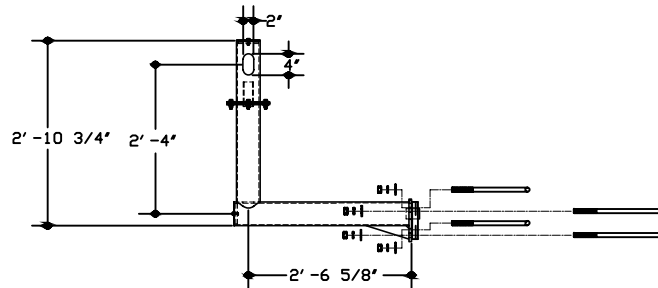
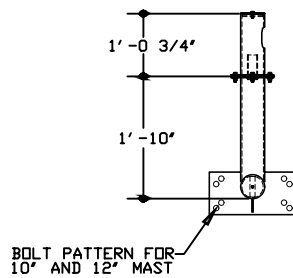
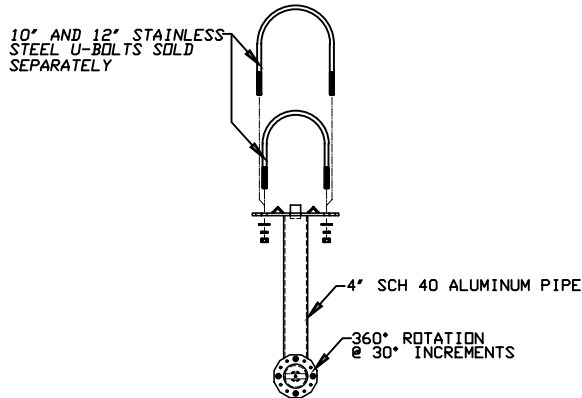


ALUMINUM CROSSING STANDOFF BRACKET FOR 10" - 12" MOUNTING

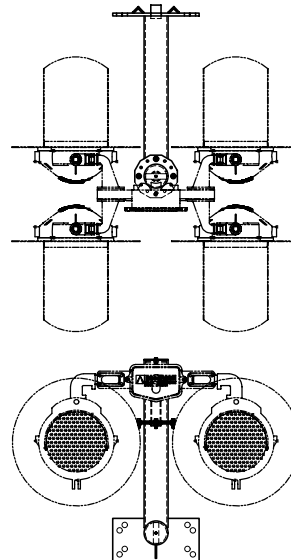
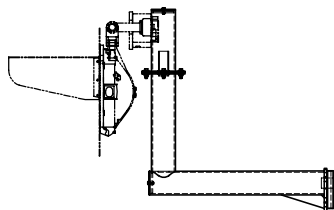
6

PART# 9451060112

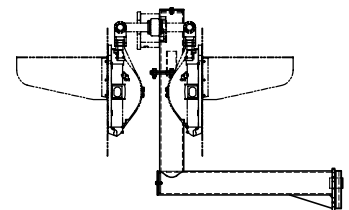
Grade Crossing Aluminum Standoff
Bracket For 10" or 12" Mounting



Shown With 1-Way Lights
(Light Sold Separately)



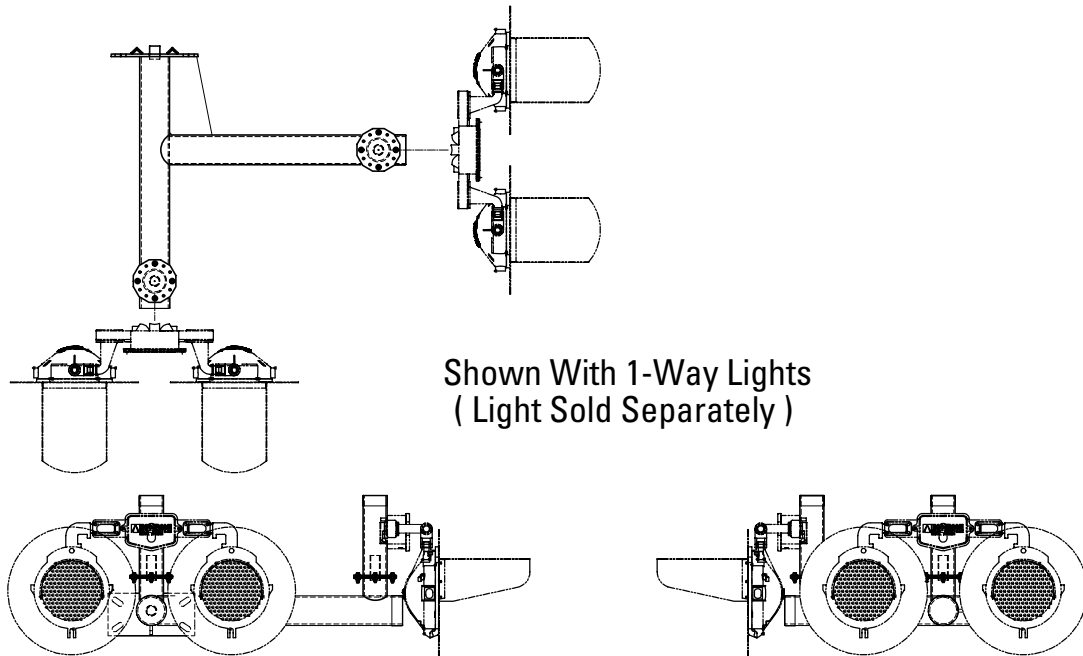
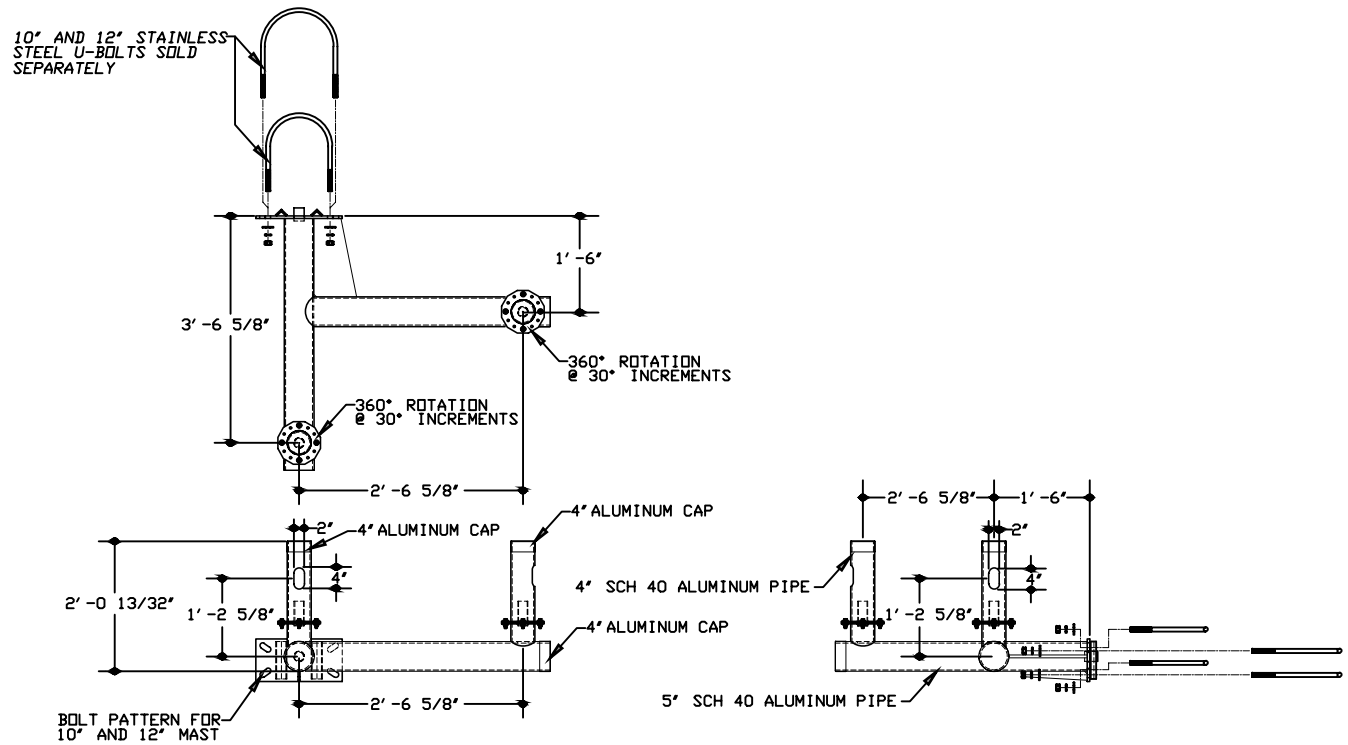
Shown With 2-Way Lights
(Light Sold Separately)



ALUMINUM Y-STANDOFF BRACKET FOR 10" - 12" MOUNTING

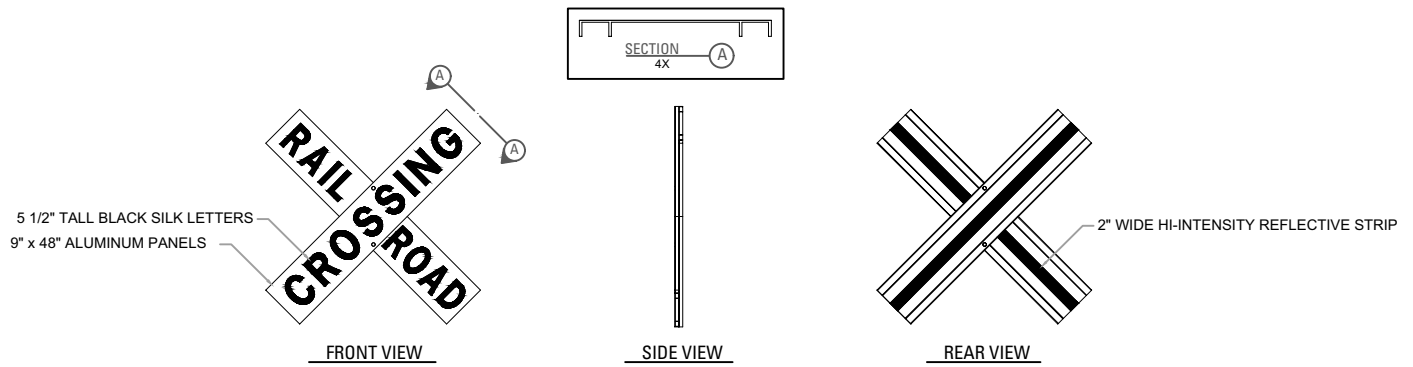
PART# 9451060154

Grade Crossing Aluminum "Y" Standoff
Bracket For 10" or 12" Mounting



RAILWAY CROSSING SIGN (FIN STYLE)

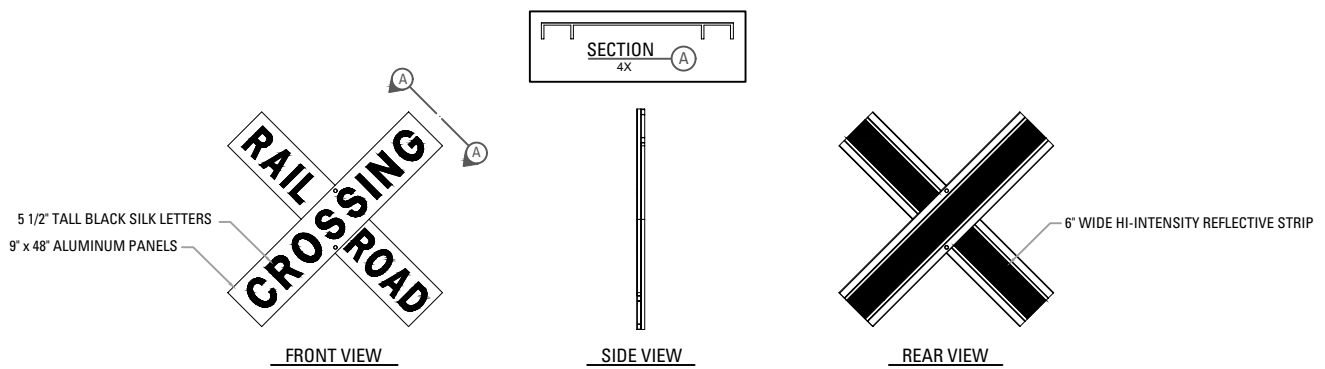
7



PART# 9460001104

MUTCD: R15-1

Railroad Crossing Sign (FIN Style)

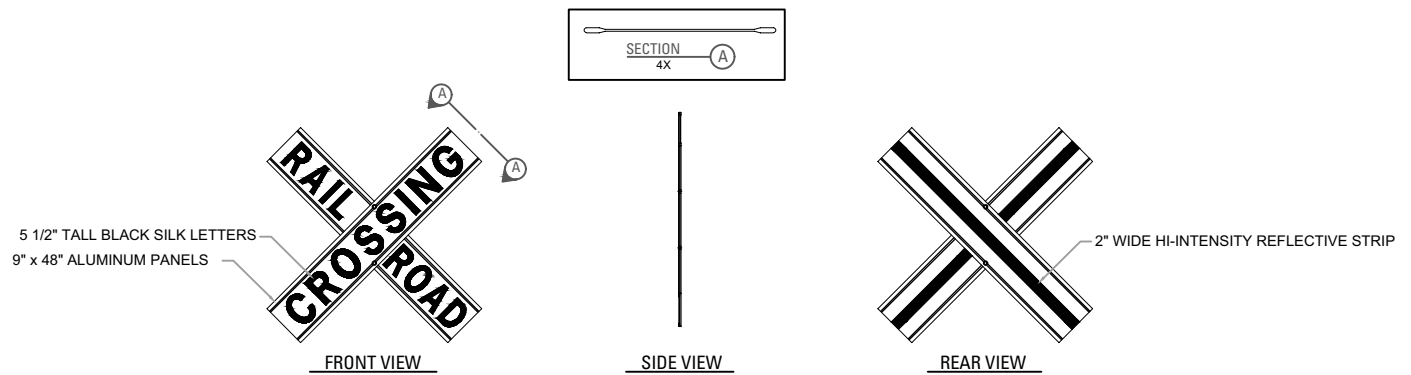


PART# 9460001170

MUTCD: R15-1

Railroad Crossing Sign (FIN Style)

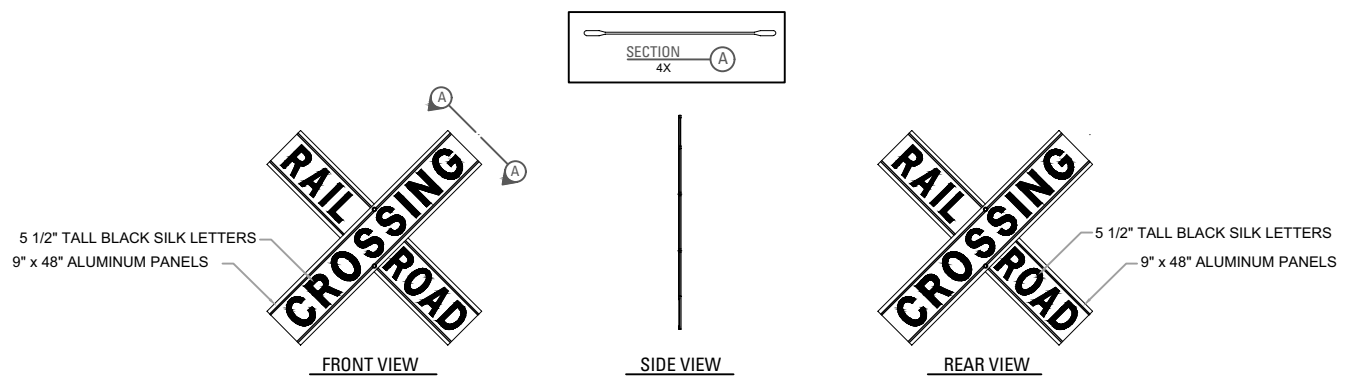
RAILWAY CROSSING SIGN (BONE STYLE)



PART# 9460001099

MUTCD: R15-1

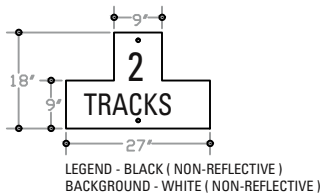
Railroad Crossing Sign (BONE Style)



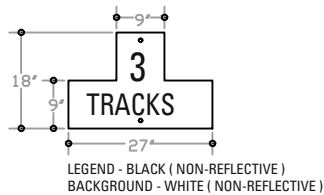
PART# 9460001094

MUTCD: R15-1

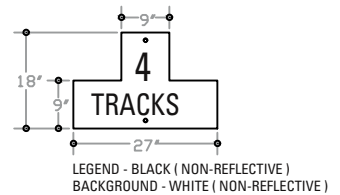
Railroad Crossing Sign (BONE Style)
(Back-to-Back Lettering)



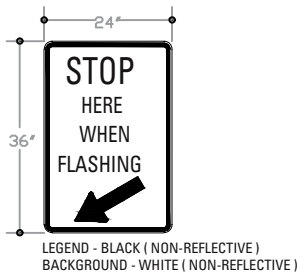
PART# 9460001179
MUTCD:R15-2



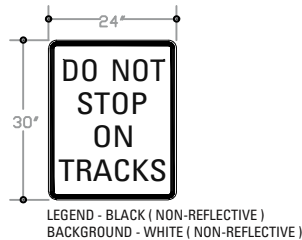
PART# 9460001180
MUTCD:R15-2



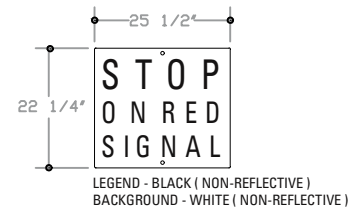
PART# 9460001181
MUTCD:R15-2



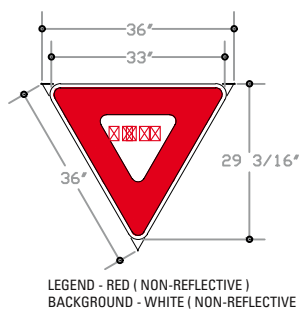
PART# 9460051243
MUTCD:R8-10



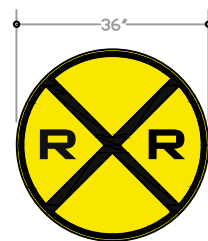
PART# 9460001122
MUTCD:R8-8



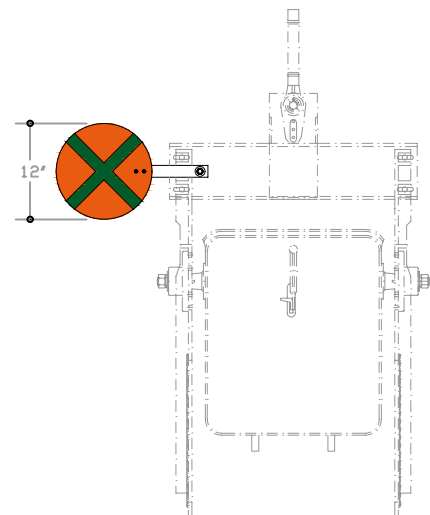
PART# 9460001112



PART# 9460051237
MUTCD:R1-2

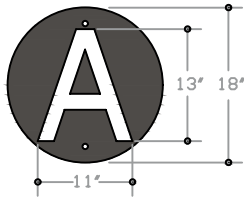


ADVANCED WARNING
PART# 9460051231
MUTCD:W10-1

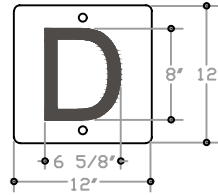


GATE PADDLE DISC ASSY.

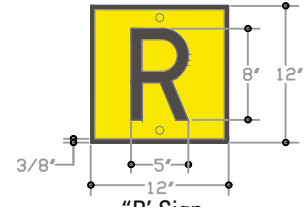
PART# 9460051255



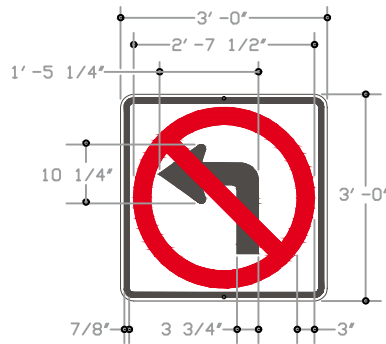
"A" Sign
 SYMBOL - WHITE (REFLECTIVE)
 BACKGROUND - BLACK (RETO-REFLECTIVE)
PART# 9460051251



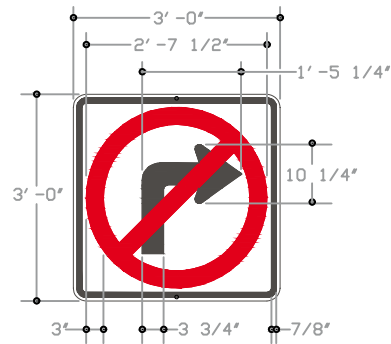
"D" Sign
 SYMBOL - BLACK (REFLECTIVE)
 BACKGROUND - WHITE (RETO-REFLECTIVE)
PART# 9460030861P



"R" Sign
 SYMBOL - BLACK (NON-REFLECTIVE)
 BORDER - BLACK (NON-REFLECTIVE)
 BACKGROUND - YELLOW (REFLECTIVE)
PART# 9460030613P

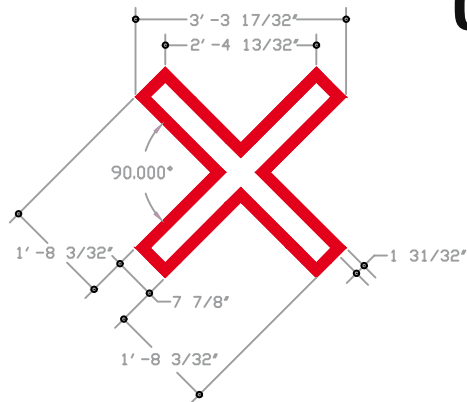


Left Turn Prohibited
 CIRCLE & DIAGONAL - RED (RETO-REFLECTIVE)
 SYMBOL & BORDER - BLACK (NON-REFLECTIVE)
 BACKGROUND - WHITE (RETO-REFLECTIVE)
PART# 9460051258

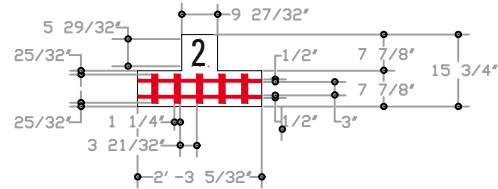


Right Turn Prohibited
 CIRCLE & DIAGONAL - RED (RETO-REFLECTIVE)
 SYMBOL & BORDER - BLACK (NON-REFLECTIVE)
 BACKGROUND - WHITE (RETO-REFLECTIVE)
PART# 9460051257

CANADA

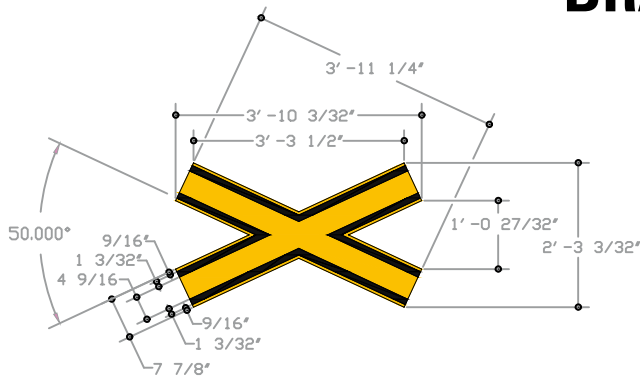


Railroad Crossing Sign
BORDER - RED (NON-REFLECTIVE)
BACKGROUND - WHITE (NON-REFLECTIVE)
PART# 9460001107

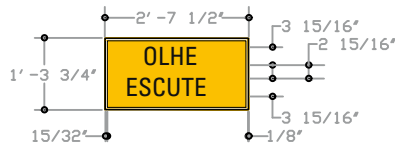


#2 Track Sign
LEGEND - RED (NON-REFLECTIVE)
TRACKS - RED (NON-REFLECTIVE)
BACKGROUND - WHITE (NON-REFLECTIVE)
PART# 9460001115

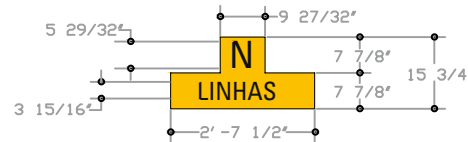
BRAZIL



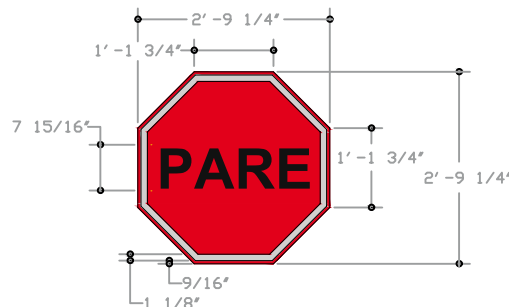
Railroad Crossing Sign
BORDER - BLACK (NON-REFLECTIVE)
BACKGROUND - YELLOW (NON-REFLECTIVE)
PART# 9460051297



Look And Listen
BORDER - BLACK (NON-REFLECTIVE)
BACKGROUND - YELLOW (NON-REFLECTIVE)
PART# 9460051339

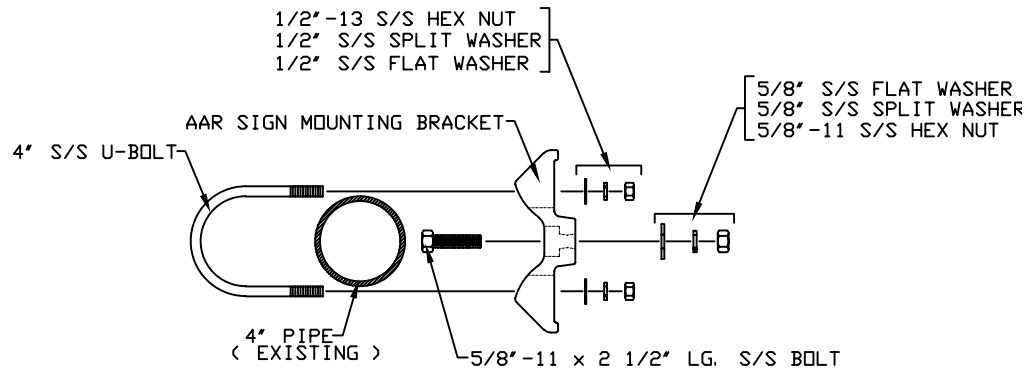


#2 Track Sign
LEGEND - BLACK (NON-REFLECTIVE)
BACKGROUND - YELLOW (NON-REFLECTIVE)
PART# 9460051298



Stop Sign
LEGEND - WHITE (NON-REFLECTIVE)
BORDER - WHITE (NON-REFLECTIVE)
BACKGROUND - RED (NON-REFLECTIVE)
PART# 9460051299

4" SIGN MOUNTING KITS

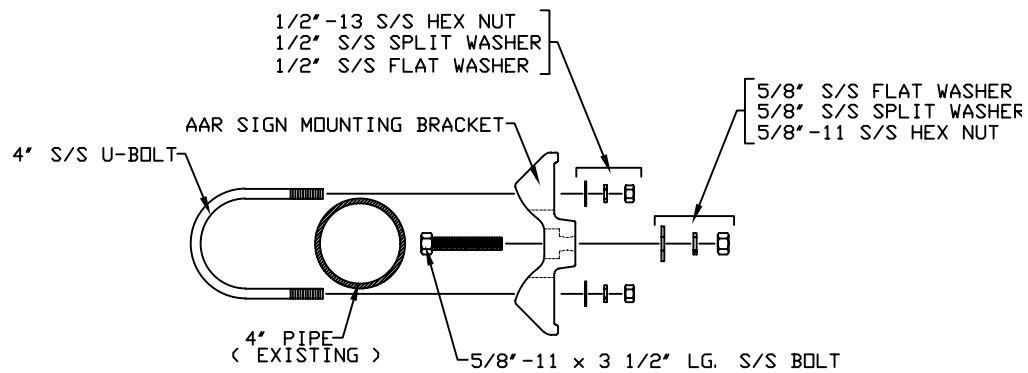


PART# 9460005042

(For Track Signs)

(For Bone Style X-Bucks

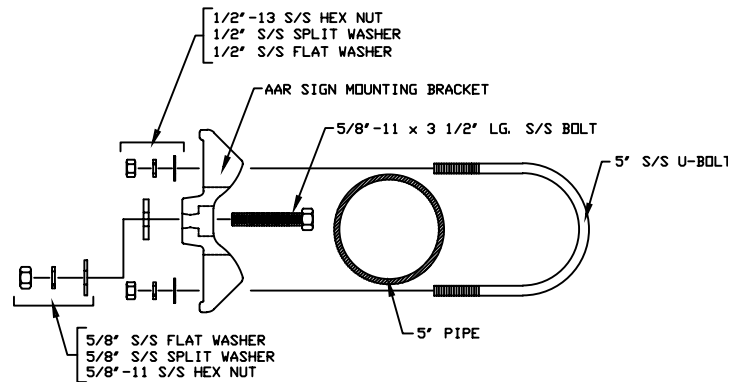
KIT = (2) OF EACH ITEM



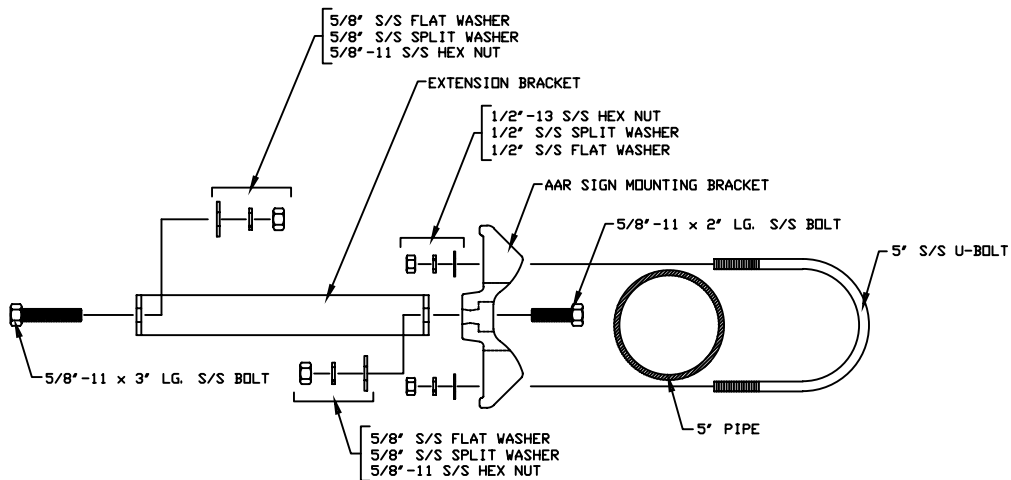
PART# 9460005040

(For FIN Style X-Bucks)

KIT = (2) OF EACH ITEM

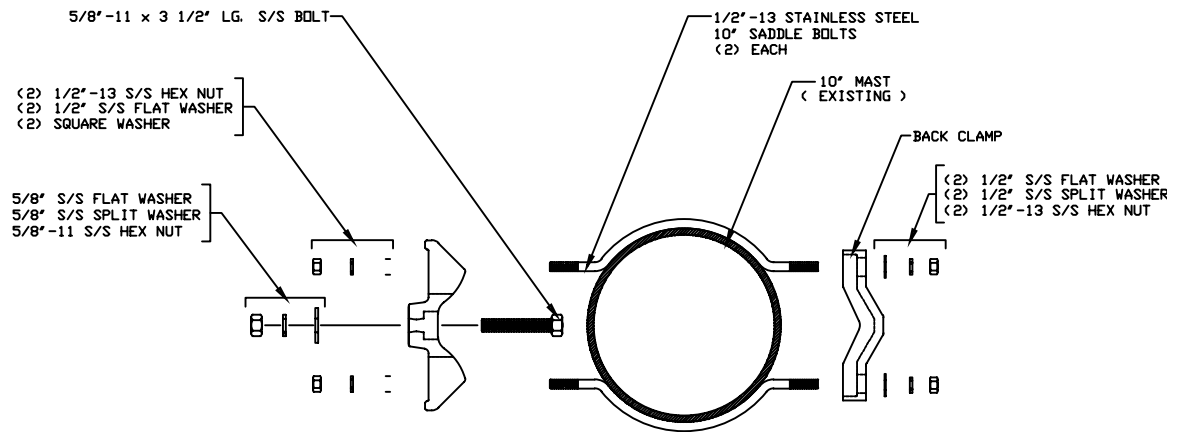


PART# 9460005051
(For Bone Style or FIN Style X-Bucks
KIT = (2) OF EACH ITEM



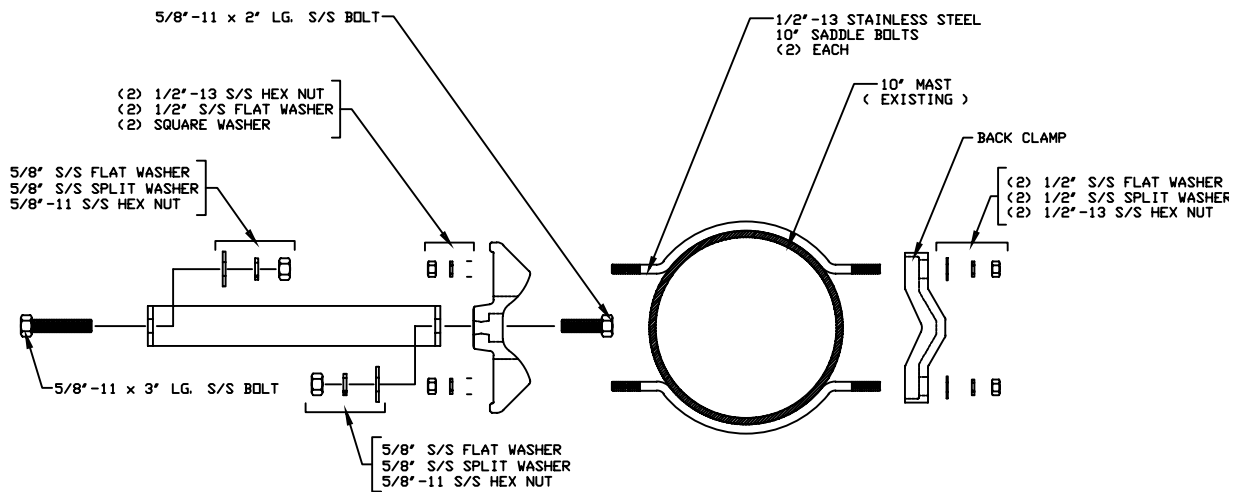
PART# 9460005050
(For Bone Style or FIN Style X-Bucks
KIT = (2) OF EACH ITEM

SIGN SADDLE MOUNTING KITS FOR 10" MAST



PART# 9460005100

10" Sign Saddle Mounting Kit Assembly, less Extension Bracket
KIT = (2) OF EACH ITEM

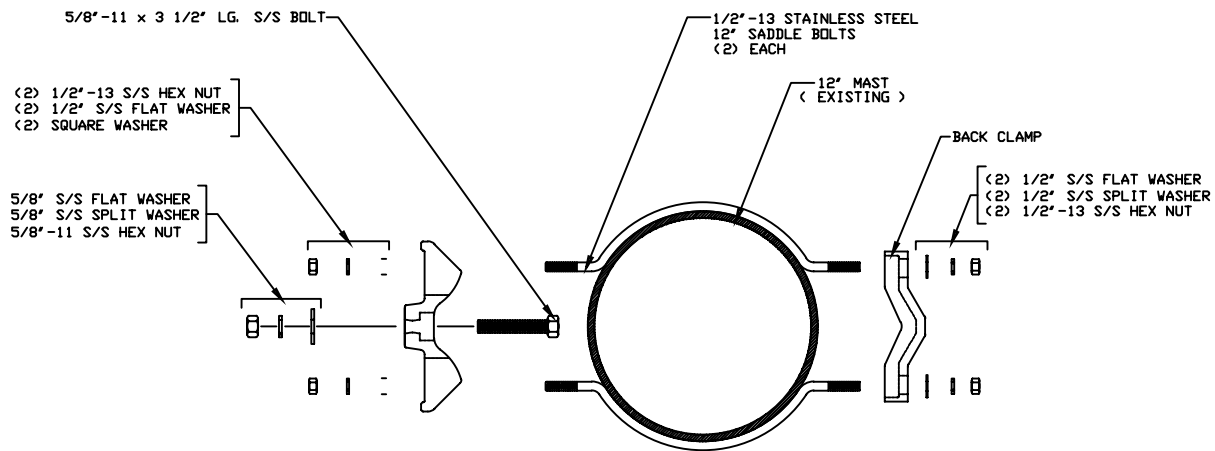


PART# 9460005102

10" Sign Saddle Mounting Kit Assembly, less Extension Bracket
KIT = (2) OF EACH ITEM

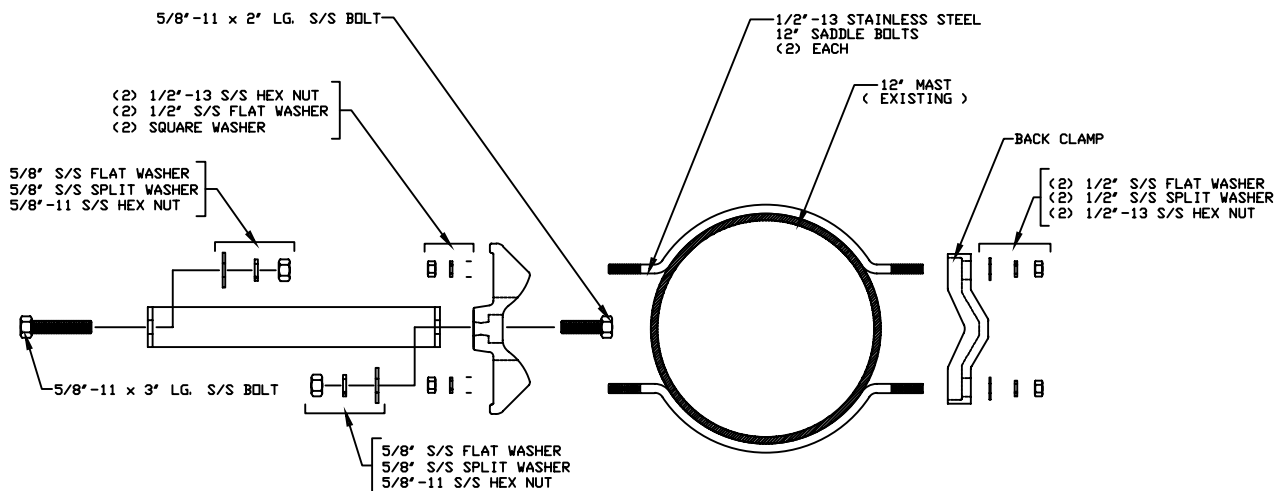
SIGN SADDLE MOUNTING KITS FOR 12" MAST

8



PART# 9460005103

12" Sign Saddle Mounting Kit Assembly, less Extension Bracket
KIT = (2) OF EACH ITEM

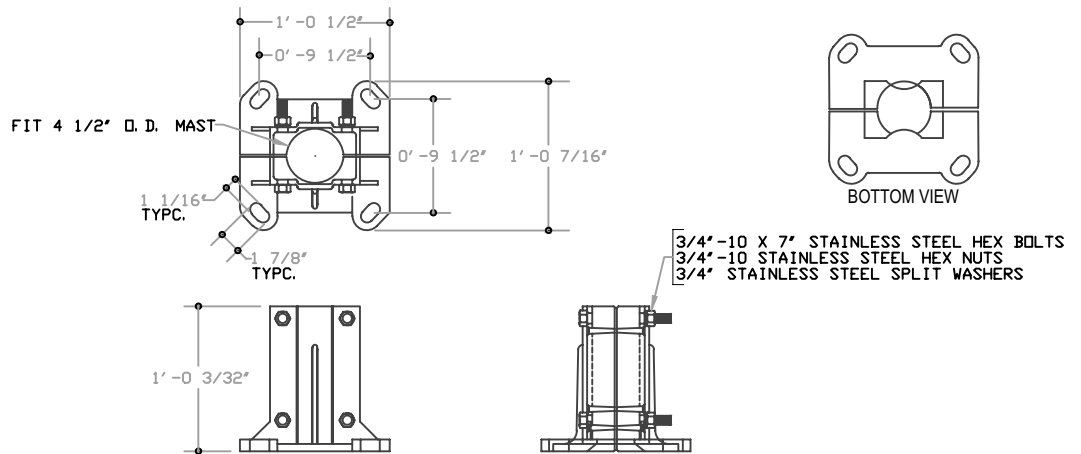


PART# 9460005101

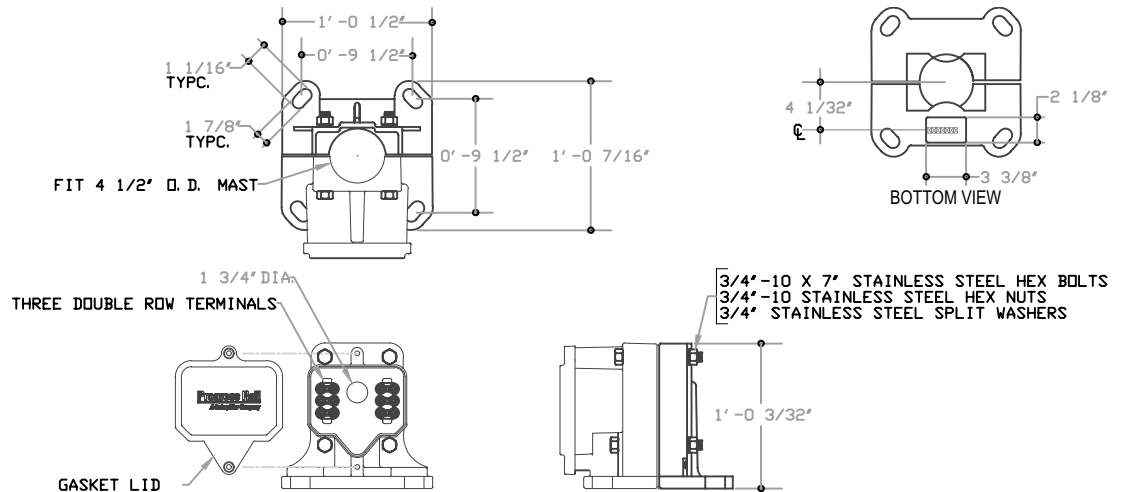
12" Sign Saddle Mounting Kit Assembly, with Extension Bracket
KIT = (2) OF EACH ITEM

FLASHER SPLIT BASES

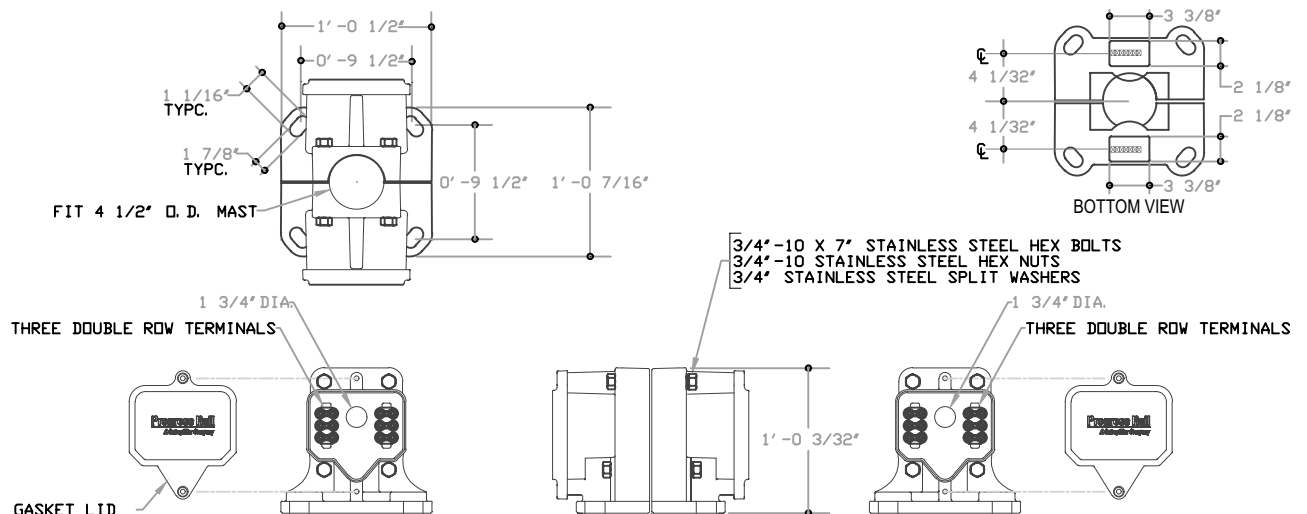
PART# 9420001108



PART# 9420001100



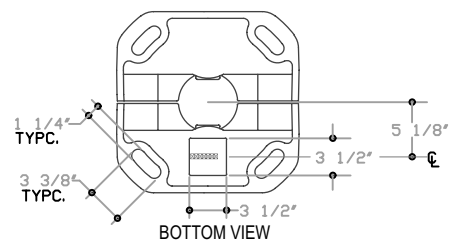
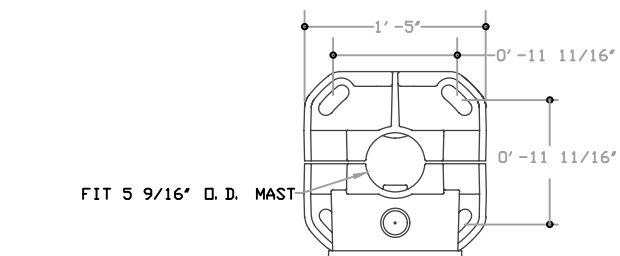
PART# 9420001103



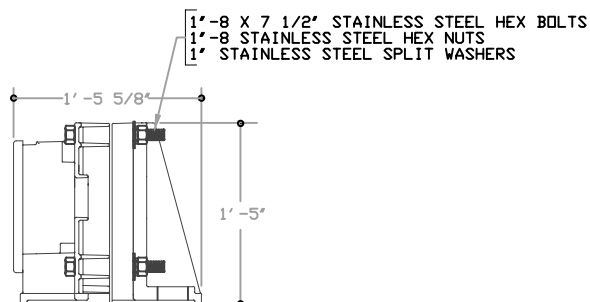
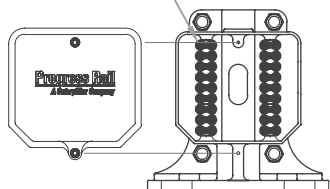
GATE FLASHER SPLIT BASES

8

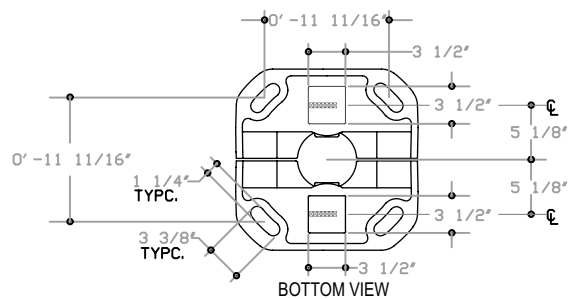
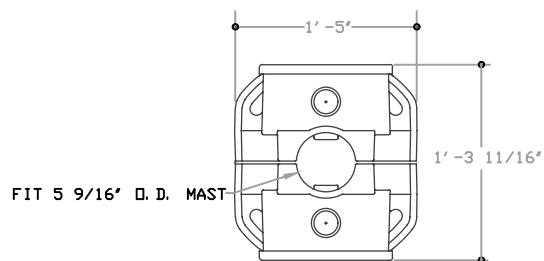
PART# 9420001102



(2) NINE DOUBLE ROW TERMINALS

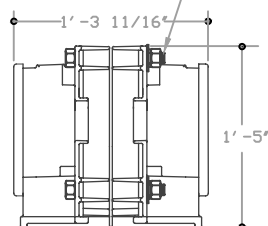
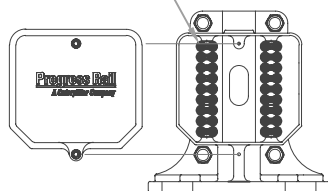


PART# 9420001114

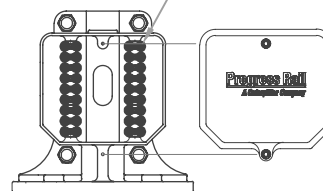


1'-8 X 7 1/2" STAINLESS STEEL HEX BOLTS
1'-8 STAINLESS STEEL HEX NUTS
1' STAINLESS STEEL SPLIT WASHERS

NE DOUBLE ROW TERMINALS

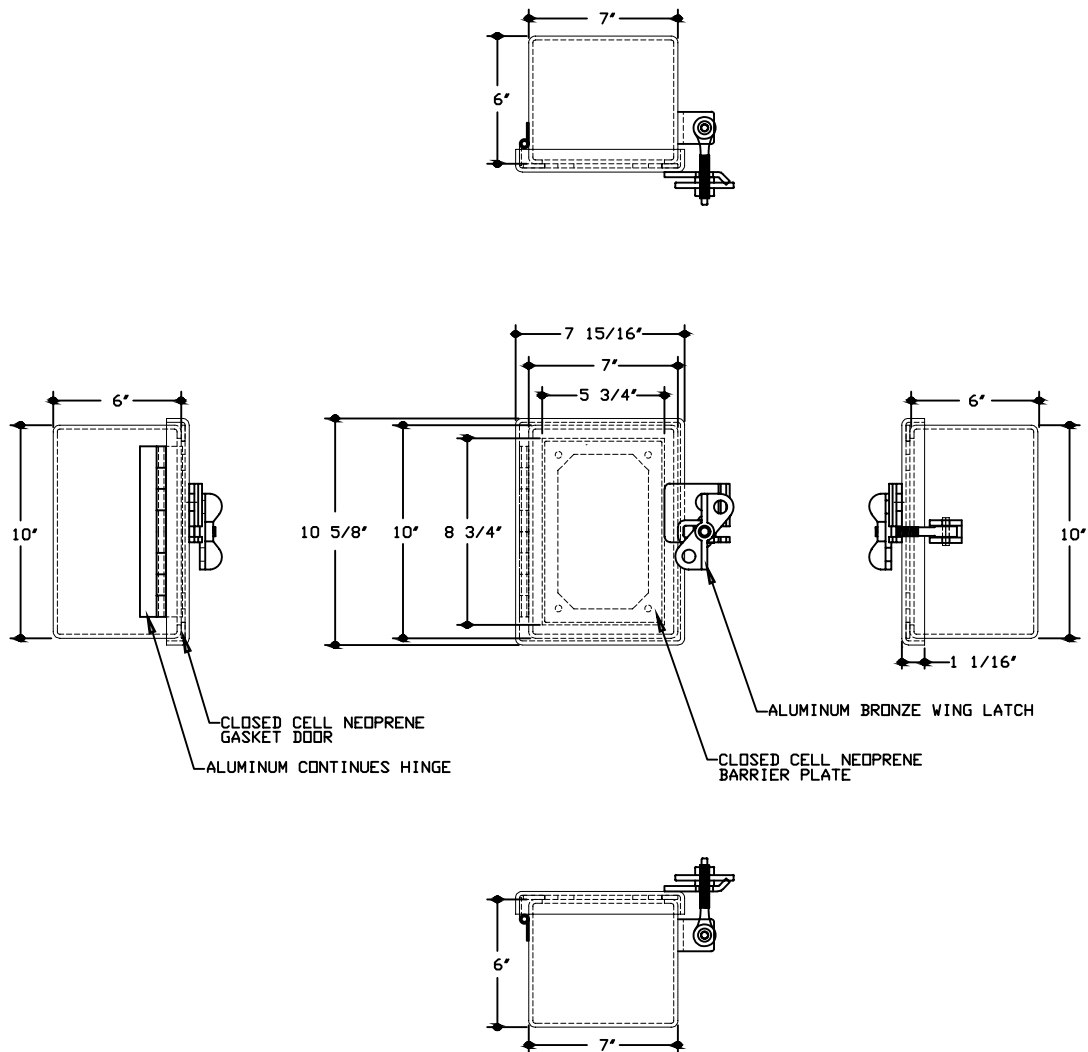


(2) NINE DOUBLE ROW TERMINALS

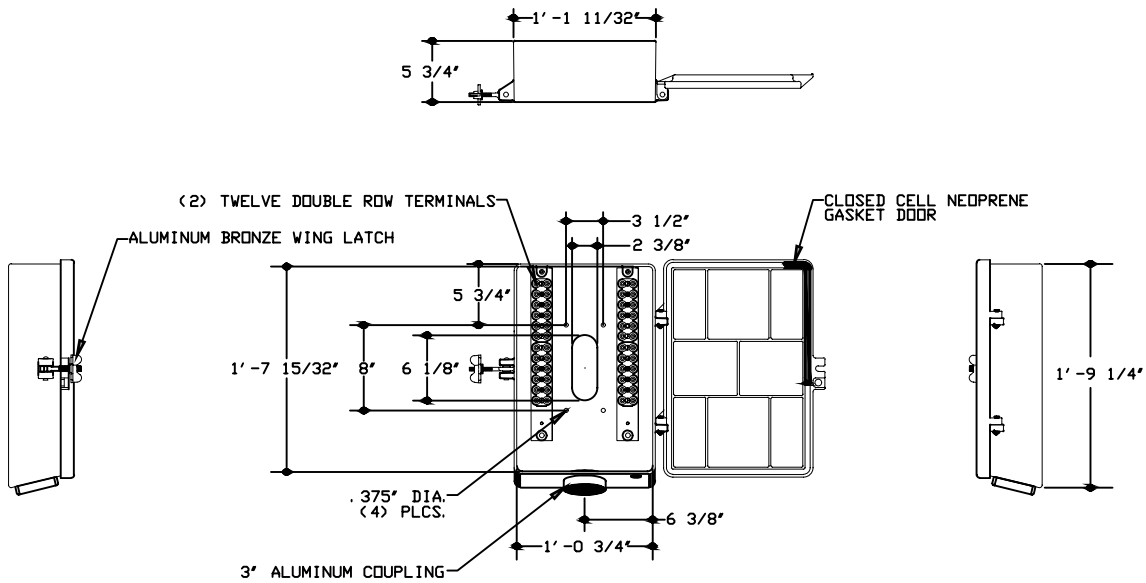


7 X 10 JUNCTION BOX

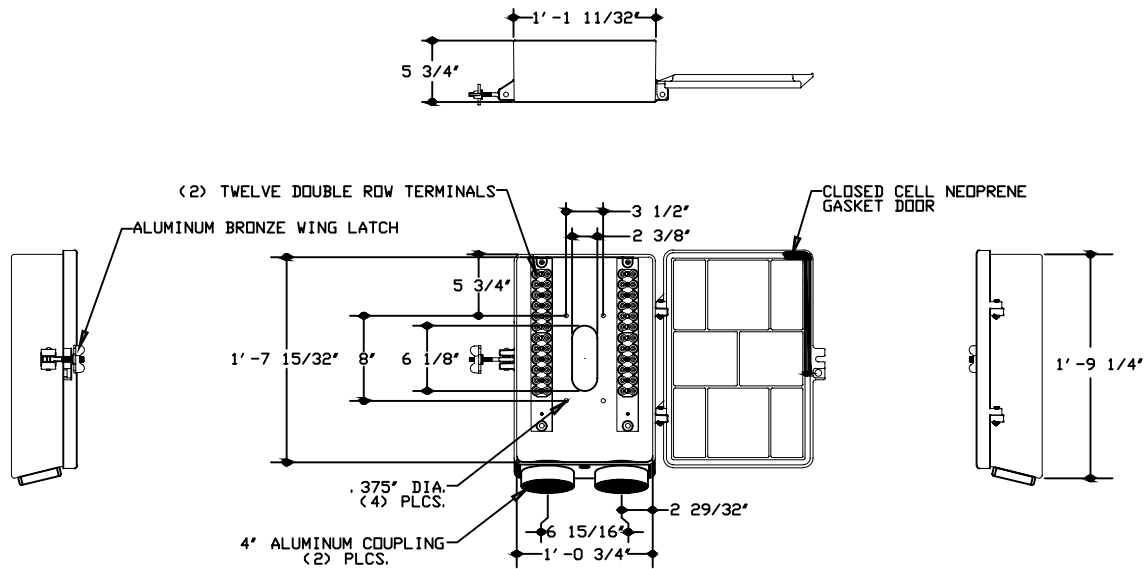
PART# 9411020212



9

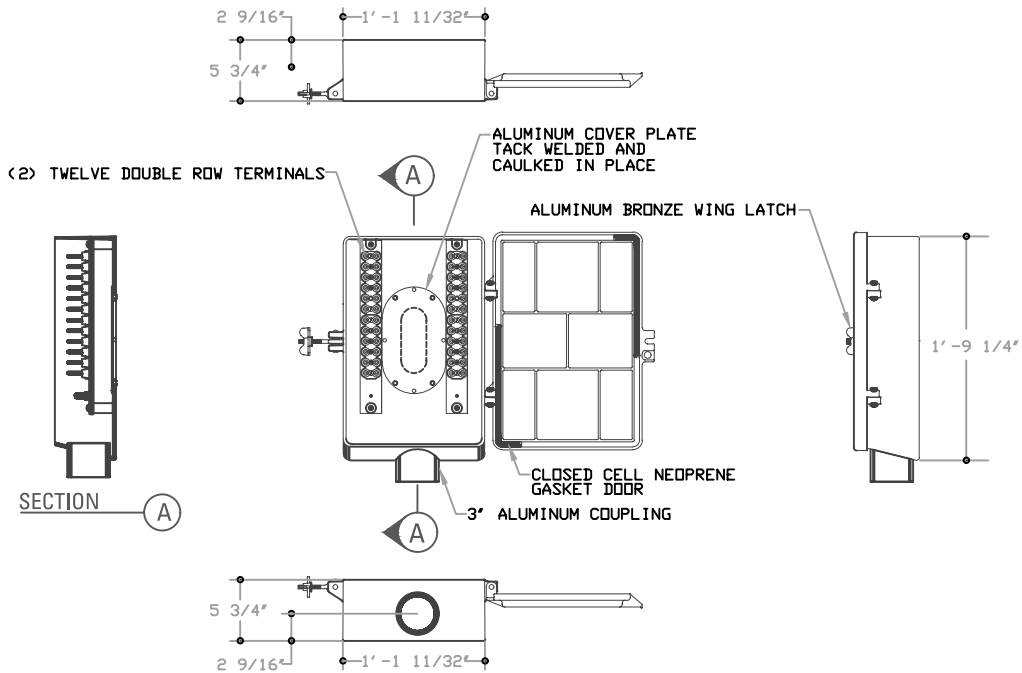


PART# 9411000528

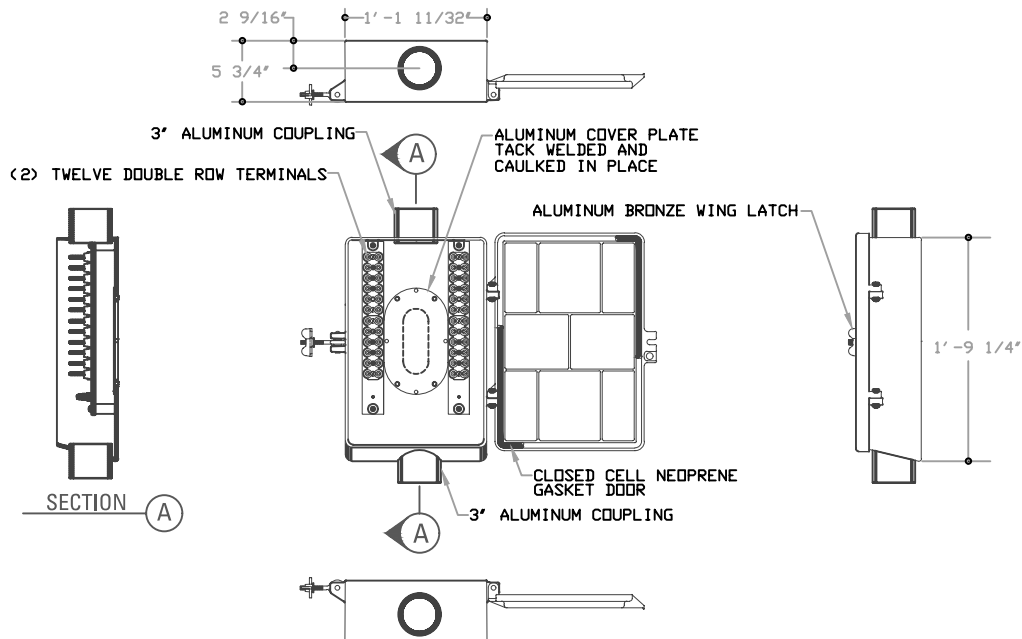


RAIL TIE TERMINAL BOXES

PART# 9411000533



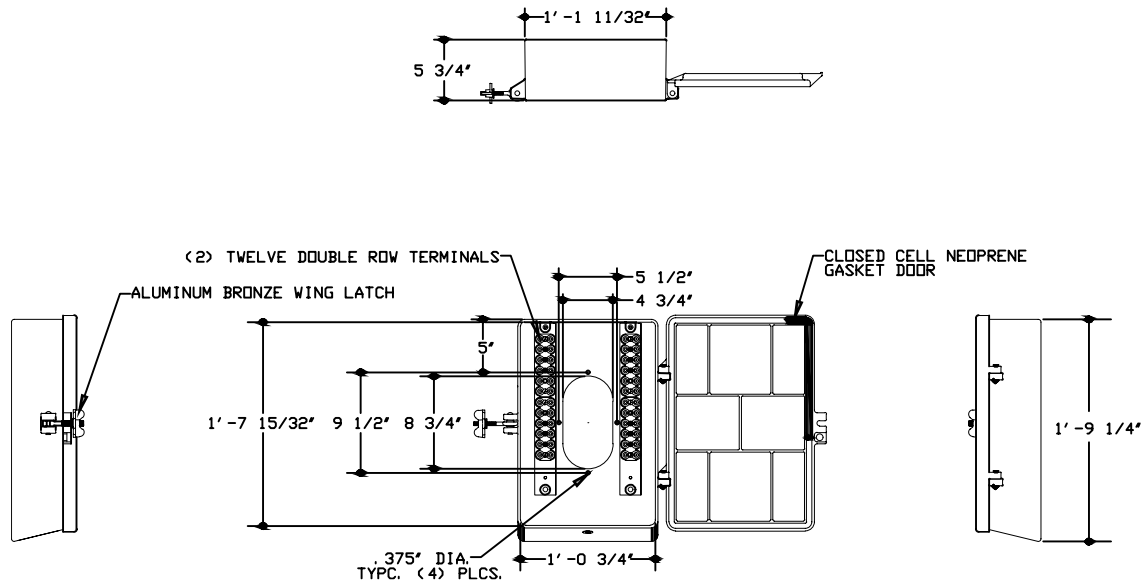
PART# 9411000534



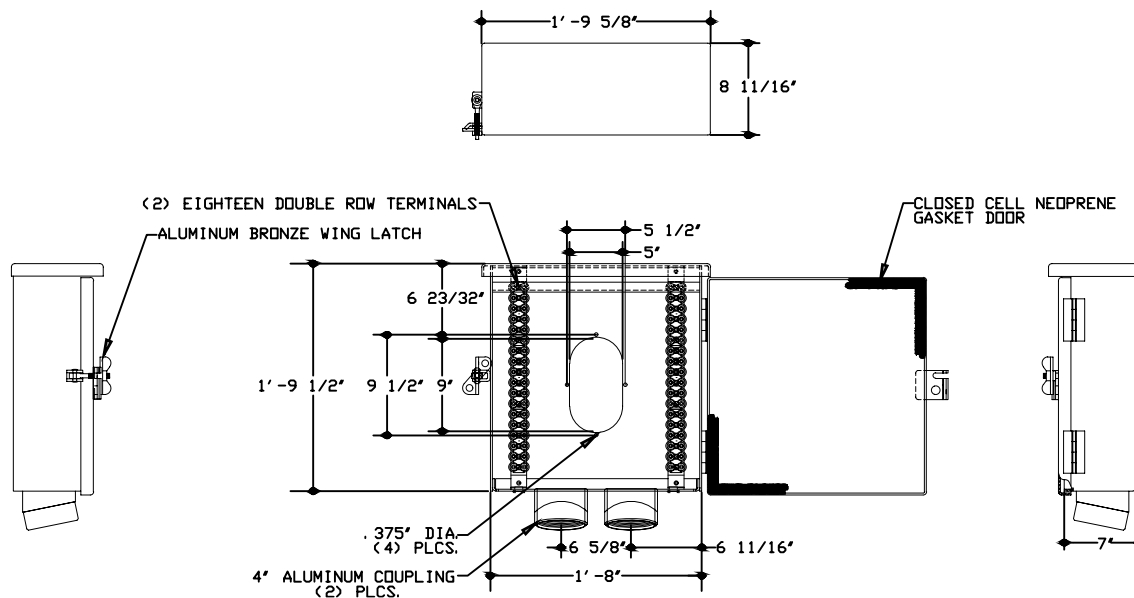
GRADE CROSSING & WAYSIDE TERMINAL BOXES

9

PART# 9411000526

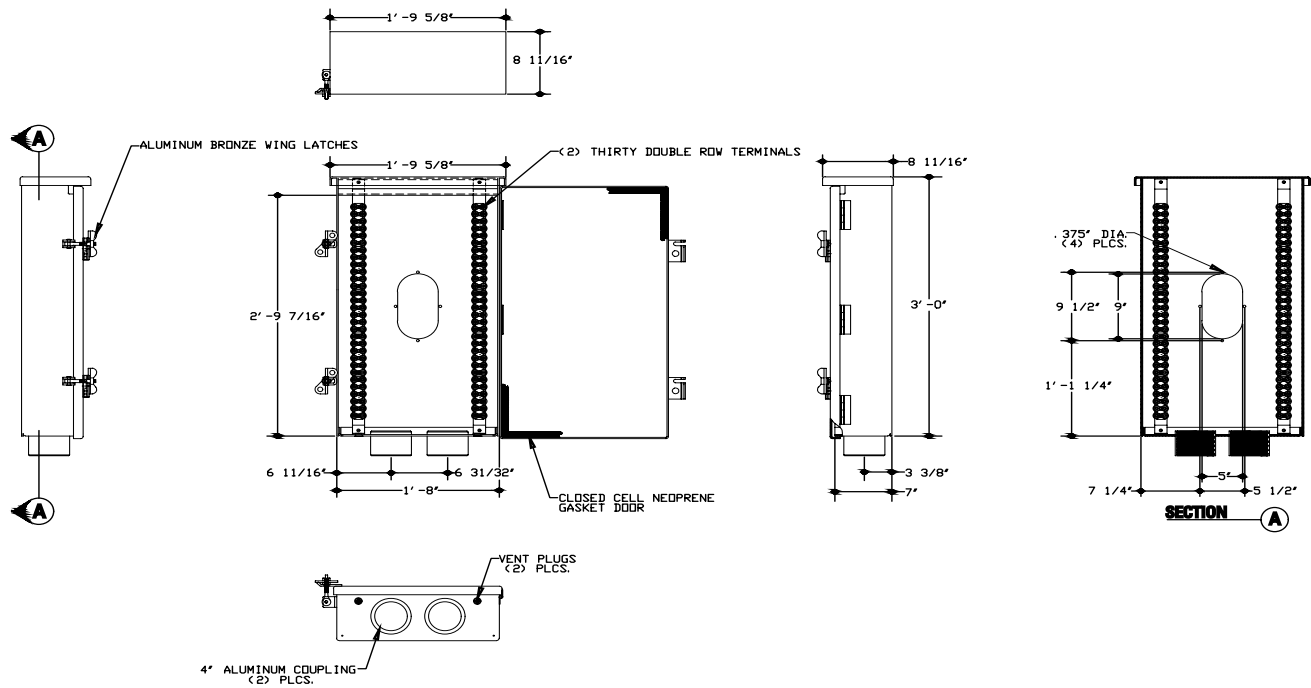


PART# 9420001100



WAYSIDE TERMINAL BOX

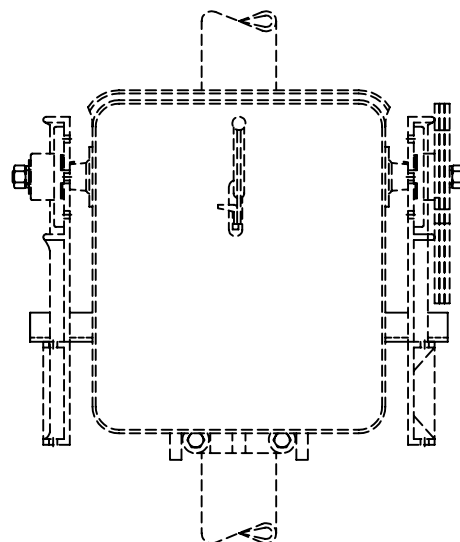
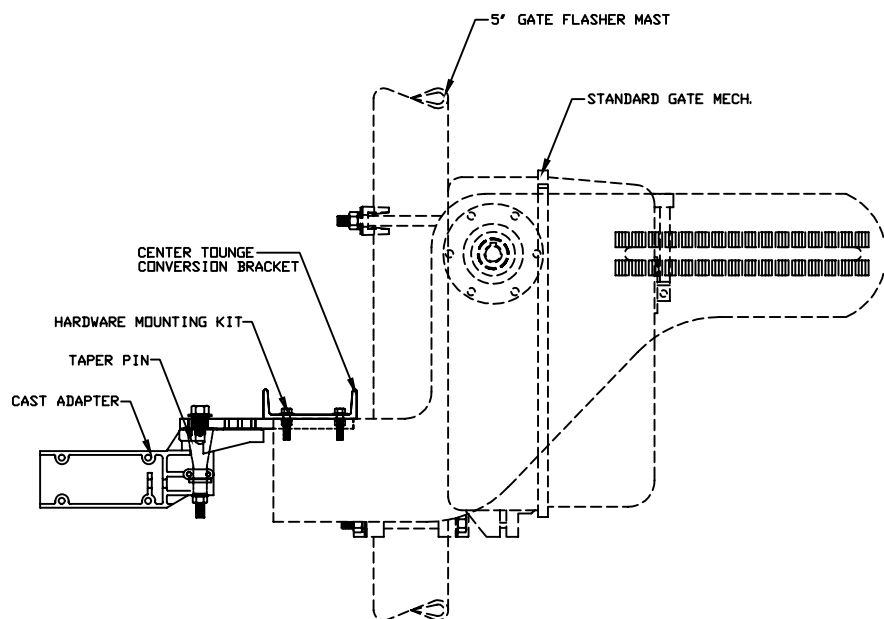
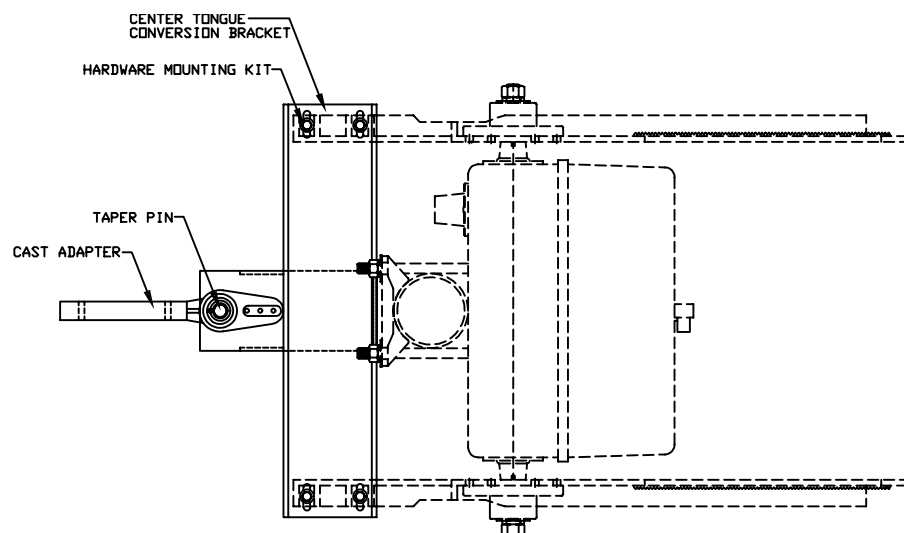
PART# 9411020202



CENTER TONGUE GATE FLASHER CONVERSION BRACKET

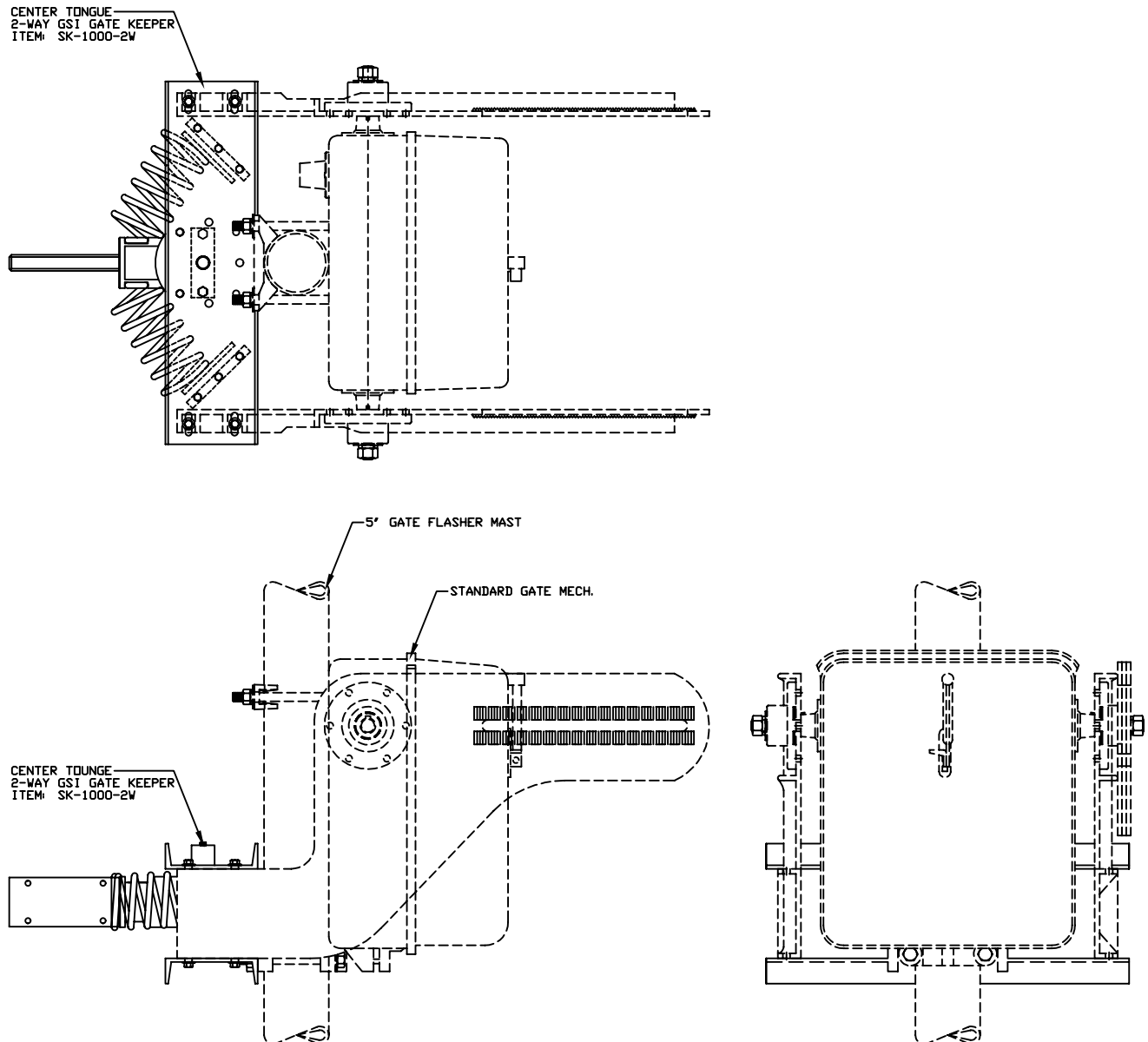
10

PART# 9453001101



CENTER TONGUE GATE FLASHER 2-WAY GSI GATE KEEPER

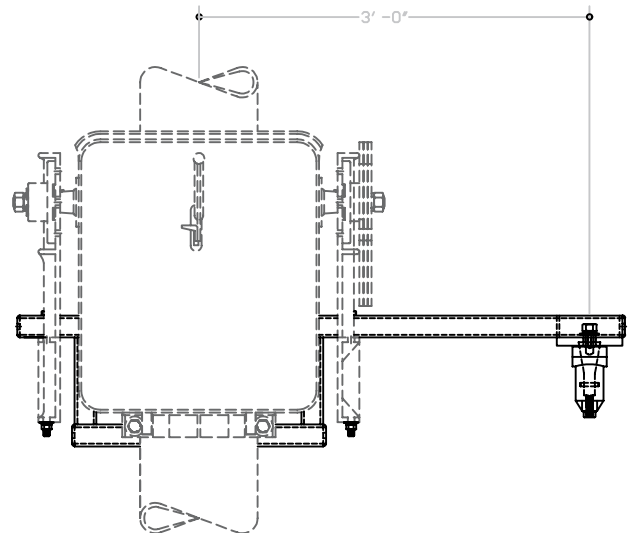
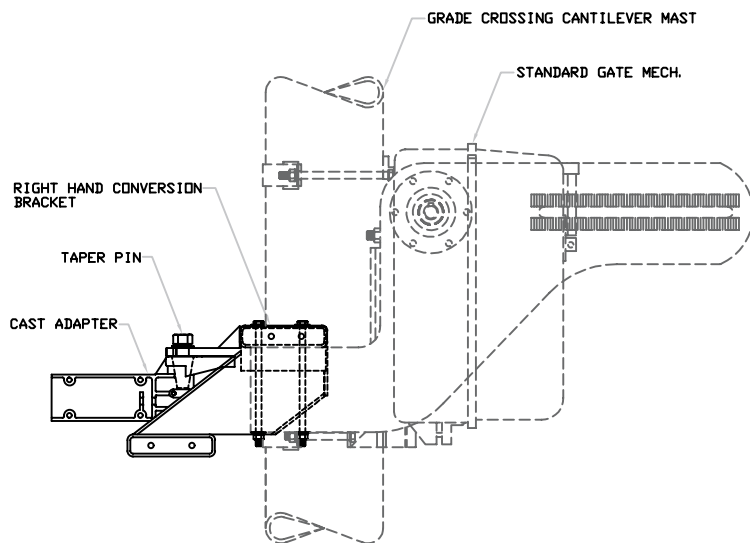
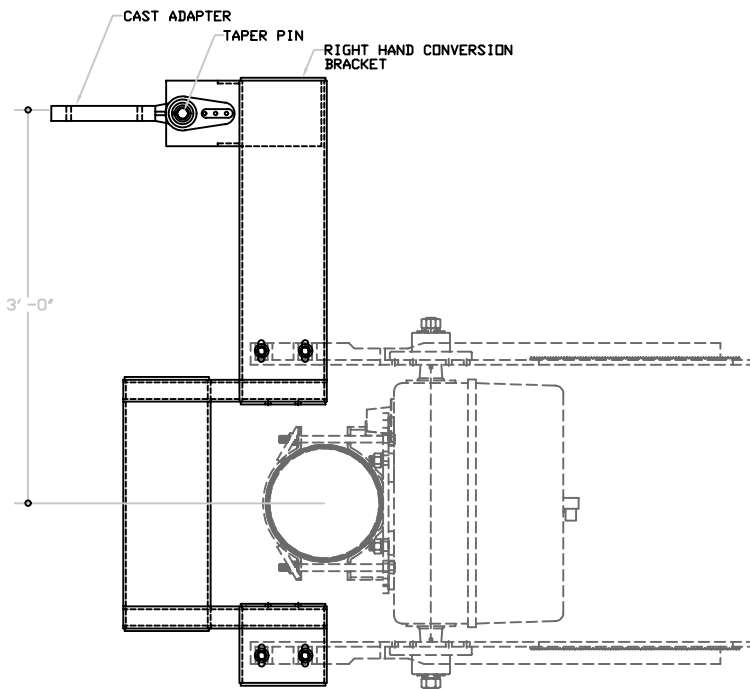
PART# 9450030139



RIGHT HAND CONVERSION BRACKET ASSEMBLY

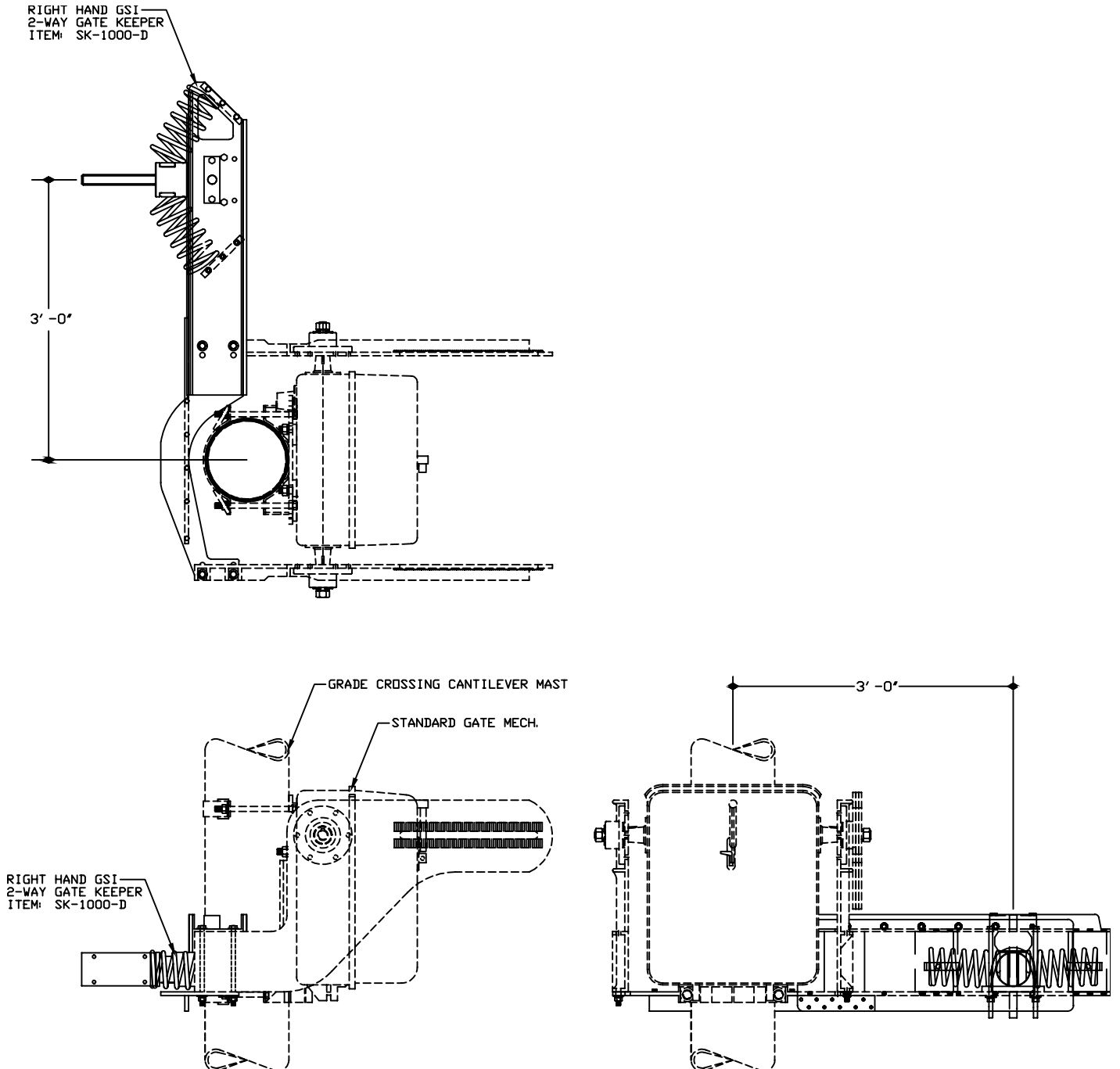
11

PART# 9459001126



3'-0" OFFSET GSI GATE KEEPER

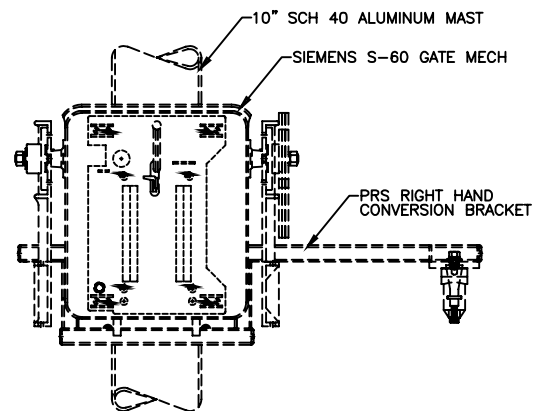
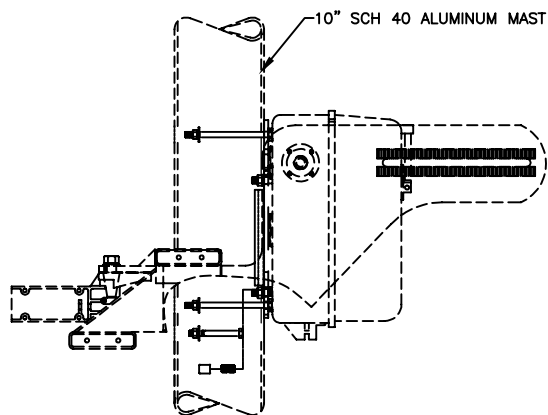
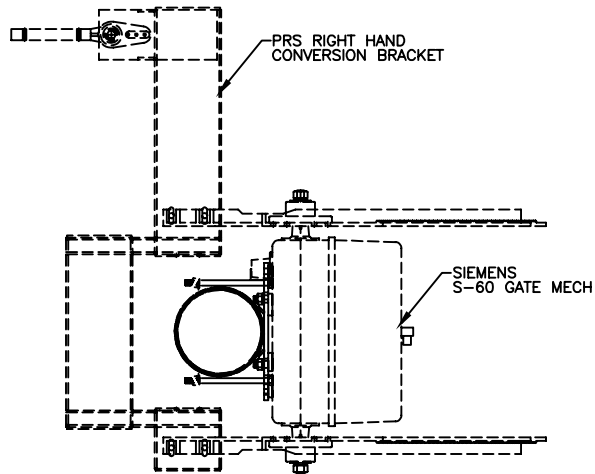
PART# 9459001121



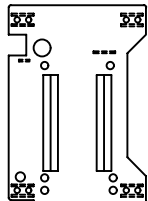
S-60 GATE MECH TO 10" MAST MOUNTING KIT

11

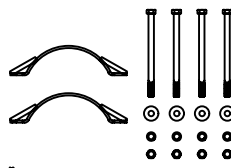
PART# 9459001103



Assembly Kit



- (1) SIEMENS COMBO MOUNTING PLATE
- (4) 3/4"-10 X 3 1/2" LG HHCS S/S
- (4) 3/4"-10 S/S NUTS
- (4) 3/4" S/S SPLIT WASHERS



- (2) 10" GATE SUPPORT BACK CLAMPS
- (4) 5/8"-11 x 10" LG HHCS 18-8 S/S
- (4) 5/8"-11 S/S NUTS
- (4) 5/8" S/S FLAT WASHERS
- (4) 5/8" S/S SPLIT WASHERS

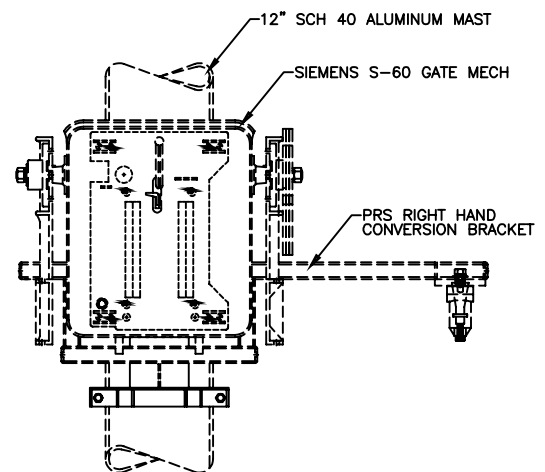
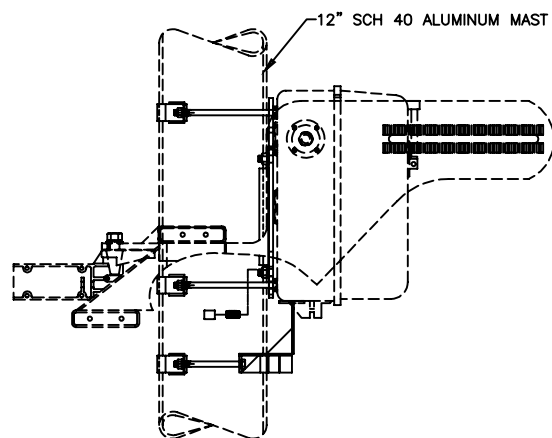
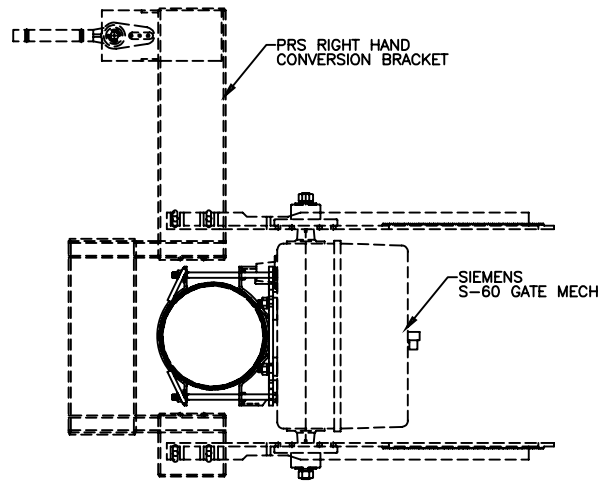


- (1) 10" GATE SUPPORT CLAMP
- (1) 10" GATE SUPPORT BACK CLAMP
- (2) 5/8"-11 x 6" HHCS 18-8 S/S
- (2) 5/8"-11 S/S NUTS
- (2) 5/8" S/S FLAT WASHERS
- (2) 5/8" S/S SPLIT WASHERS

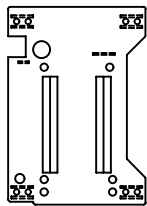
- (1) 3/4" GALVANIZE COUPLING
- (1) 3/4" GALVANIZE NIPPLE X 2" LG.

S-60 GATE MECH TO 12" MAST MOUNTING KIT

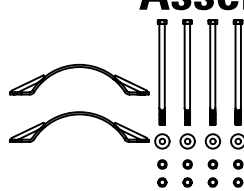
PART# 9459001121



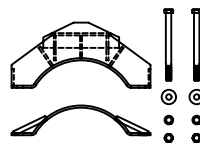
Assembly Kit



- (1) SIEMENS COMBO MOUNTING PLATE
- (4) 3/4"-10 X 3 1/2" LG HHCS S/S
- (4) 3/4"-10 S/S NUTS
- (4) 3/4" S/S SPLIT WASHERS



- (2) 12" GATE SUPPORT BACK CLAMPS
- (4) 5/8"-11 x 12" LG HHCS 18-8 S/S
- (4) 5/8"-11 S/S NUTS
- (4) 5/8" S/S FLAT WASHERS
- (4) 5/8" S/S SPLIT WASHERS

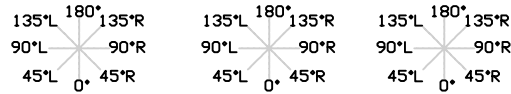


- (1) 12" GATE SUPPORT CLAMP
- (1) 12" GATE SUPPORT BACK CLAMP
- (2) 5/8"-11 x 8" HHCS 18-8 S/S
- (2) 5/8"-11 S/S NUTS
- (2) 5/8" S/S FLAT WASHERS
- (2) 5/8" S/S SPLIT WASHERS

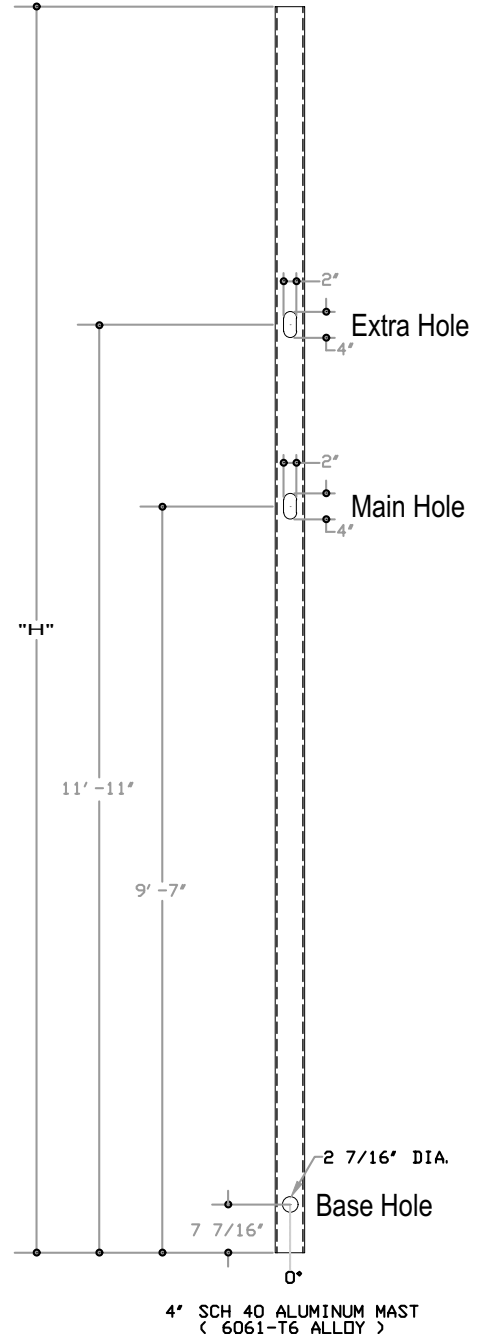
- (1) 3/4" GALVANIZE COUPLING
- (1) 3/4" GALVANIZE NIPPLE X 2" LG.

GRADE CROSSING 4" ALUMINUM MAST

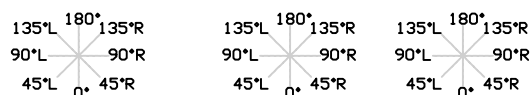
12



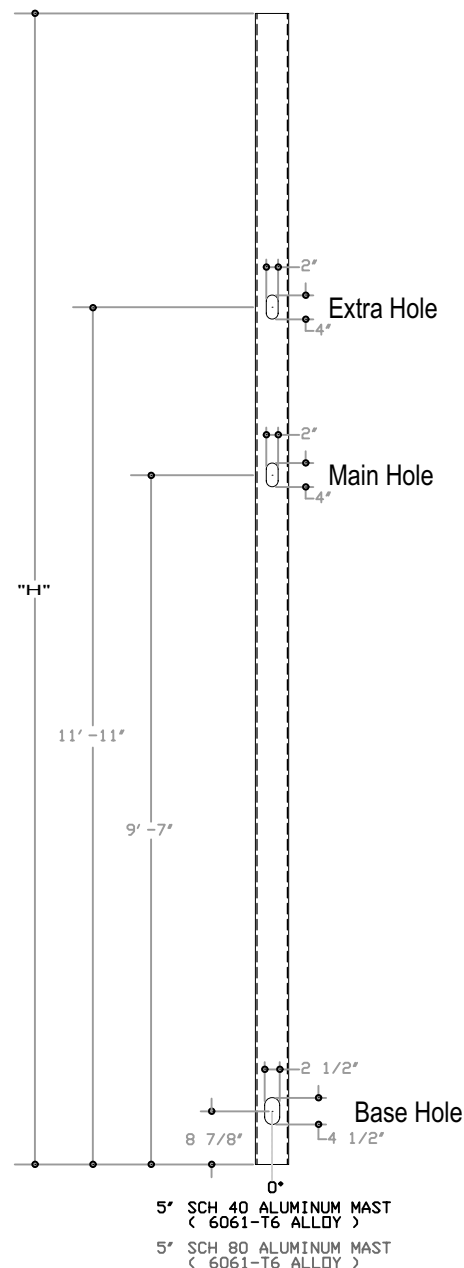
PART NUMBER	MAST - "H"	BASE HOLE	MAIN HOLE	EXTRA HOLE
9413020146	Mast 4" x 3'-6"	Base Hole 0°		
9413020121	Mast 4" x 4'-0"	Base Hole 0°		
9413020143	Mast 4" x 6'-0"	Base Hole 0°		
9413020138	Mast 4" x 6'-6"	Base Hole 0°		
9413020095	Mast 4" x 7'-0"	Base Hole 0°		
9413020125	Mast 4" x 8'-0"	Base Hole 0°		
9413020123	Mast 4" x 9'-0"	Base Hole 0°		
9413020145	Mast 4" x 10'-0"	Base Hole 0°		
9413020139	Mast 4" x 10'-0"	Base Hole 0°	Main Hole 0°	
9413020094	Mast 4" x 12'-0"	Base Hole 0°		
9413020099	Mast 4" x 14'-0"	Base Hole 0°		
9413020109	Mast 4" x 14'-0"	Base Hole 0° & 180°		
9413020100	Mast 4" x 14'-0"	Base Hole 0°	Main Hole 0°	
9413020140	Mast 4" x 14'-0"	Base Hole 0° & 180°	Main Hole 0°	
9413020147	Mast 4" x 14'-6"	Base Hole 0°		
9413020113	Mast 4" x 15'-0"	Base Hole 0°	Main Hole 0°	
9413020134	Mast 4" x 15'-3"	Base Hole 0°	Main Hole 0°	
9413020098	Mast 4" x 16'-0"	Base Hole 0°		
9413020102	Mast 4" x 16'-0"	Base Hole 0°	Main Hole 0°	
9413020129	Mast 4" x 16'-0"	Base Hole 0°	Main Hole 90°R	
9413020132	Mast 4" x 16'-0"	Base Hole 0°	Main Hole 90°L	
9413020104	Mast 4" x 16'-0"	Base Hole 0°	Main Hole 0°	Extra Hole 90°R
9413020106	Mast 4" x 16'-0"	Base Hole 0°	Main Hole 0°	Extra Hole 90°L
9413020120	Mast 4" x 16'-0"	Base Hole 0° & 180°	Main Hole 0°	Extra Hole 90°L
9413020108	Mast 4" x 16'-0"	Base Hole 0°	Main Hole 0°	Extra Hole 45°R
9413020110	Mast 4" x 16'-0"	Base Hole 0°	Main Hole 0°	Extra Hole 45°L
9413020112	Mast 4" x 16'-0"	Base Hole 0°	Main Hole 0°	Extra Hole 135°R
9413020114	Mast 4" x 16'-0"	Base Hole 0°	Main Hole 0°	Extra Hole 135°L
9413020103	Mast 4" x 18'-0"	Base Hole 0°	Main Hole 0°	
9413020131	Mast 4" x 20'-0"	Base Hole 0°		
9413020133	Mast 4" x 20'-0"	Base Hole 0° & 180°		



GRADE CROSSING 5" ALUMINUM MAST

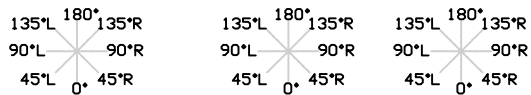


PART NUMBER	MAST - "H"	BASE HOLE	MAIN HOLE	EXTRA HOLE
9413022579	Mast 5" x 3'-6"	Base Hole 0°		
9413020142	Mast 5" x 6'-0"	Base Hole 0°		
9413022500	Mast 5" x 6'-6"	Base Hole 0°		
9413022496	Mast 5" x 6'-6"	Base Hole 0° & 180°		
9413022596	Mast 5" x 7'-0"	Base Hole 0°		
9413022501	Mast 5" x 7'-0"	Base Hole 0° & 180°		
9413022499	Mast 5" x 8'-0"	Base Hole 0°		
9413022603	Mast 5" x 8'-0"	Base Hole 0° & 180°		
9413022588	Mast 5" x 10'-0"	Base Hole 0°	Main Hole 0°	
9413022511	Mast 5" x 12'-0"	Base Hole 0°		
9413022517	Mast 5" x 13'-0"	Base Hole 0°		
9413022518	Mast 5" x 13'-0"	Base Hole 0°	Main Hole 90°R	
9413022505	Mast 5" x 14'-0"	Base Hole 0°	Main Hole 0°	
9413022502	Mast 5" x 14'-0"	Base Hole 0°	Main Hole 90°R	
9413022537	Mast 5" x 14'-0"	Base Hole 0°	Main Hole 90°L	
9413022587	Mast 5" x 15'-3"	Base Hole 0°	Main Hole 90°R	
9413022510	Mast 5" x 16'-0"	Base Hole 0°	Main Hole 0°	
9413022513	Mast 5" x 16'-0"	Base Hole 0°		
9413022516	Mast 5" x 16'-0"	Base Hole 0°	Main Hole 0°	
9413022555	Mast 5" x 16'-0"	Base Hole 0°	Main Hole 0°	Extra Hole 90°R
9413022506	Mast 5" x 16'-0"	Base Hole 0°	Main Hole 90°R	
9413022504	Mast 5" x 16'-0"	Base Hole 0°	Main Hole 90°R	Extra Hole 90°R
9413022595	Mast 5" x 16'-0"	Base Hole 0°	Main Hole 90°R	Extra Hole 90°L
9413022507	Mast 5" x 16'-0"	Base Hole 0° & 180°	Main Hole 90°R	Extra Hole 90°R
9413022508	Mast 5" x 16'-0"	Base Hole 0°	Main Hole 90°L	Extra Hole 45°R
9413022572	Mast 5" x 16'-0"	Base Hole 0° & 180°	Main Hole 0°	Extra Hole 45°L
9413022601	Mast 5" x 16'-0"	Base Hole 0° & 180°	Main Hole 0°	Extra Hole 135°R
9413022512	Mast 5" x 16'-0"	Base Hole 0° & 180°	Main Hole 90°R	Extra Hole 135°L
9413022569	Mast 5" x 16'-0"	Base Hole 0° & 180°	Main Hole 90°L	
9413022514	Mast 5" x 17'-0"	Base Hole 0° & 180°	Main Hole 90°R	
9413022565	Mast 5" x 18'-0"	Base Hole 0°		

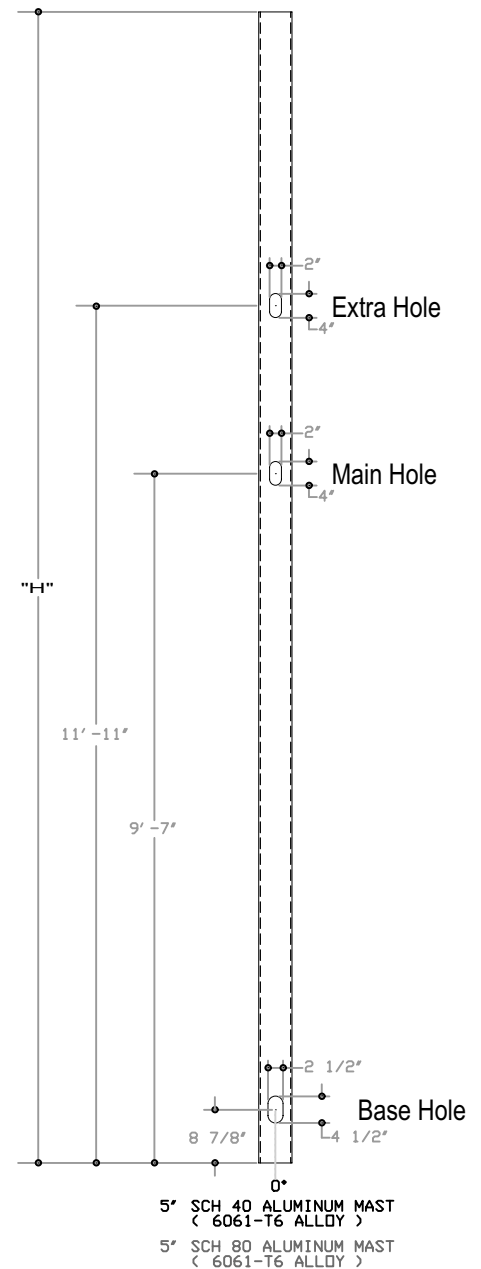


GRADE CROSSING 5" ALUMINUM MAST, CONTINUED

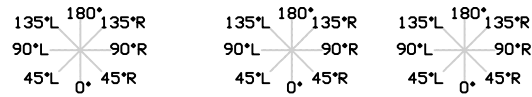
12



PART NUMBER	MAST - "H"	BASE HOLE	MAIN HOLE	EXTRA HOLE
9413022561	Mast 5" x 18'-0"	Base Hole 0°	Main Hole 0°	
9413022562	Mast 5" x 18'-0"	Base Hole 0°	Main Hole 0°	Extra Hole 90°R
9413022552	Mast 5" x 18'-0"	Base Hole 0°	Main Hole 90°R	
9413022522	Mast 5" x 18'-0"	Base Hole 0°	Main Hole 90°R	Extra Hole 90°R
9413022566	Mast 5" x 18'-0"	Base Hole 0°	Main Hole 90°L	
9413022561	Mast 5" x 18'-0"	Base Hole 0° & 180°	Main Hole 90°R	
9413022568	Mast 5" x 18'-0"	Base Hole 0° & 180°	Main Hole 90°L	
9413022563	Mast 5" x 20'-0"	Base Hole 0°	Main Hole 0°	
9413022495	Mast 5" x 20'-0"	Base Hole 0°	Main Hole 90°R	
9413022498	Mast 5" x 20'-0"	Base Hole 0°	Main Hole 90°L	
9413022531	Mast 5" x 20'-0"	Base Hole 0° & 180°	Main Hole 90°R	
9413022574	Mast 5" x 21'-0"	Base Hole 0°		
9413022567	Mast 5" x 21'-0"	Base Hole 0°		
9413022508	Mast 5" x 21'-0"	Base Hole 0°	Main Hole 0°	
9413022573	Mast 5" x 21'-0"	Base Hole 0° & 180°	Main Hole 0°	
9413022593	Mast 5" x 22'-0"	Base Hole 0°	Main Hole 0°	
9413022553	Mast 5" x 22'-0"	Base Hole 0°	Main Hole 90°R	
9413022605	Mast 5" x 22'-0"	Base Hole 0°	Main Hole 90°R	
9413022576	Mast 5" x 22'-0"	Base Hole 0° & 180°		
9413022602	Mast 5" x 22'-0"	Base Hole 0° & 180°	Main Hole 0°	
9413022589	Mast 5" x 24'-0"	Base Hole 0° & 180°		
9413022564	Mast 5" x 25'-0"	Base Hole 0°	Main Hole 90°R	

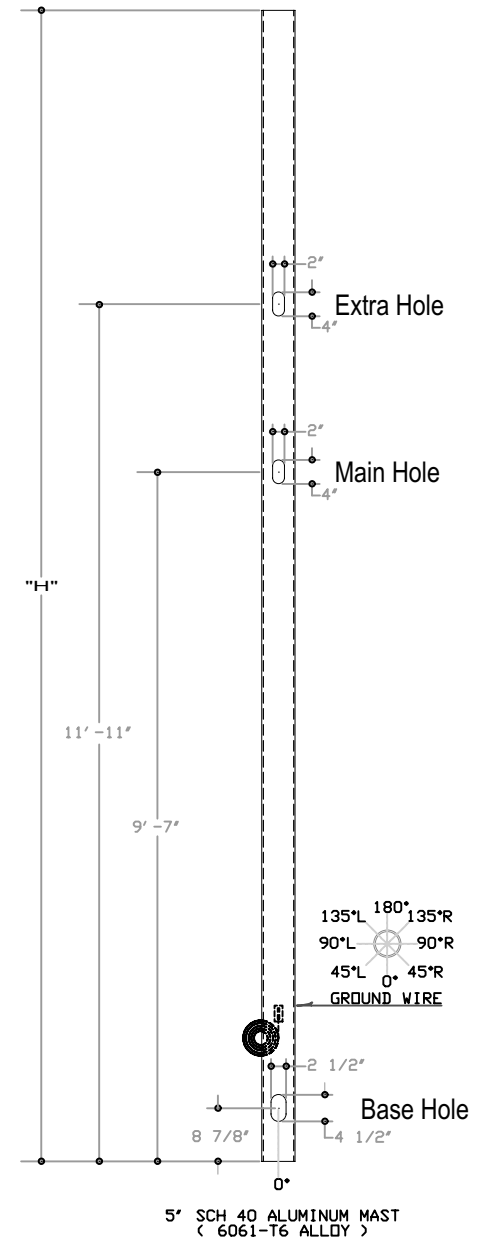


GRADE CROSSING 5" ALUMINUM MAST WITH GROUND WIRE



PART NUMBER	MAST - "H"	BASE HOLE	MAIN HOLE	EXTRA HOLE
9413022585	Mast 5" x 8'-0"	Base Hole 0°	Main Hole 90°R	
9413022543	Mast 5" x 13'-0"	Base Hole 0°	Main Hole 90°R	
9413022535	Mast 5" x 14'-0"	Base Hole 0°	Main Hole 90°R	
9413022539	Mast 5" x 16'-0"	Base Hole 0°		
9413022542	Mast 5" x 16'-0"	Base Hole 0°	Main Hole 0°	
9413022528	Mast 5" x 16'-0"	Base Hole 0°	Main Hole 0°R	
9413022536	Mast 5" x 16'-0"	Base Hole 0°	Main Hole 0°R	Extra Hole 90°R
9413022540	Mast 5" x 16'-0"	Base Hole 0° & 180°	Main Hole 0°R	
9413022538	Mast 5" x 16'-0"	Base Hole 0°	Main Hole 0°L	
9413022541	Mast 5" x 17'-0"	Base Hole 0° & 180°	Main Hole 0°R	
9413022545	Mast 5" x 18'-0"	Base Hole 0°		
9413022546	Mast 5" x 18'-0"	Base Hole 0°	Main Hole 0°	
9413022551	Mast 5" x 18'-0"	Base Hole 0° & 180°	Main Hole 0°	
9413022548	Mast 5" x 18'-0"	Base Hole 0°	Main Hole 0°R	
9413022530	Mast 5" x 20'-0"	Base Hole 0°	Main Hole 0°R	

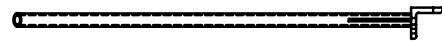
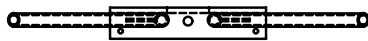
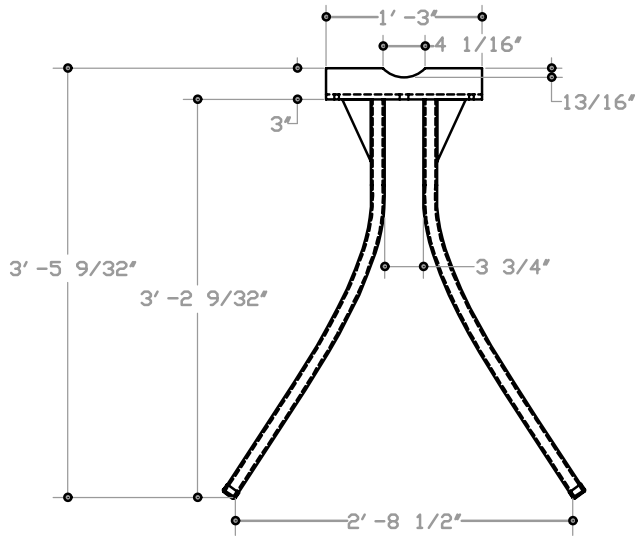
With Erico Ground Wire X 6'-0" Lg.



HIGH WIND BRACKET - 5' MOUNTING KIT 1501 5" ASSEMBLY KIT

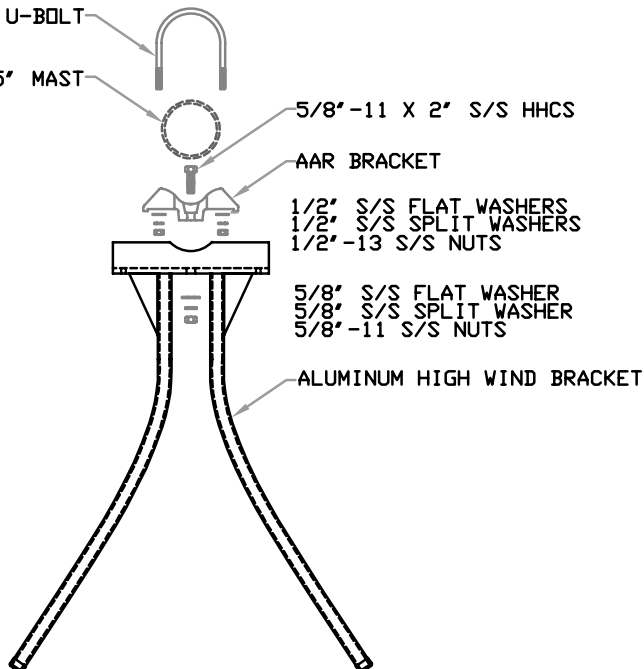
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PART# 9459001103

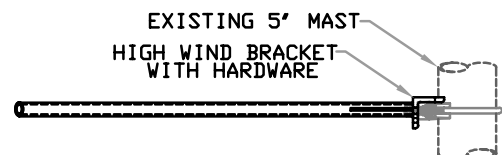
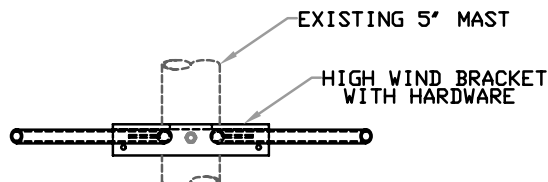


5' STAINLESS STEEL U-BOLT

EXISTING 5' MAST

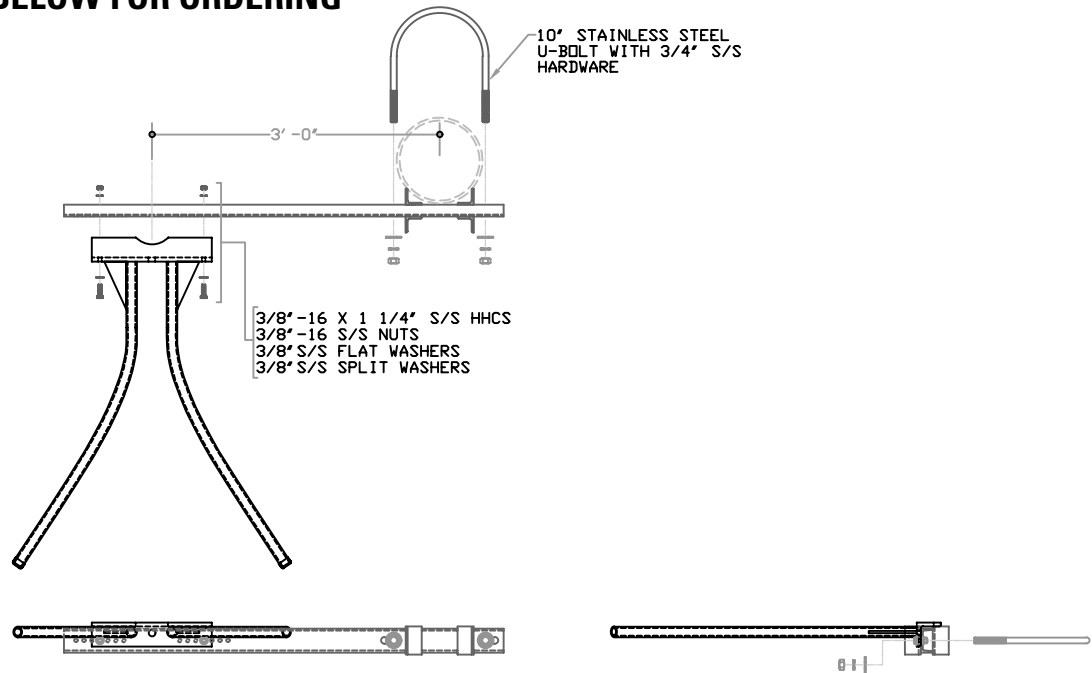


PART# 9459001501

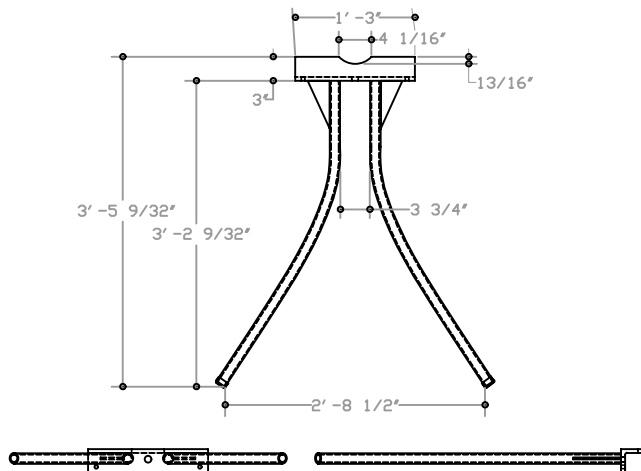


HIGHWAY COMBO, HIGH WIND ASSEMBLY 3'-0" OFFSET, 10" MAST MOUNTING

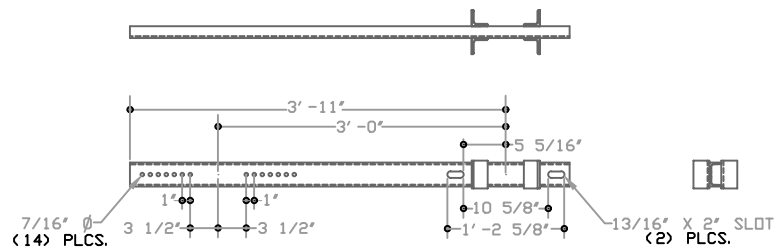
SEE PARTS BELOW FOR ORDERING



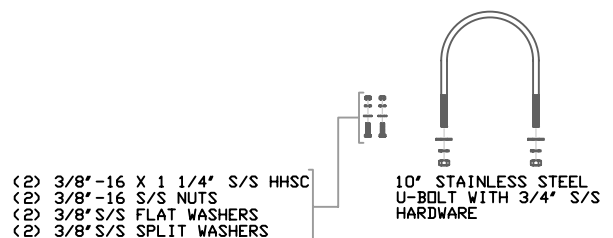
PART# 9459001512 High Wind Bracket



PART# 9459001513 High Wind Bracket Support Channel



PART# 9454100104 High Wind Bracket 10" Mast Mtg. Kit



SEE PARTS BELOW FOR ORDERING

4'-0"

10" STAINLESS STEEL
U-BOLT WITH 3/4" S/S
HARDWARE

3/8"-16 X 1 1/4" S/S HHSC
3/8"-16 S/S NUTS
3/8" S/S FLAT WASHERS
3/8" S/S SPLIT WASHERS

Technical drawing of a chair back and seat assembly. The drawing includes the following dimensions and features:

- Backrest Dimensions:**
 - Top width: $1' - 3"$
 - Top thickness: $4 \frac{1}{16}"$
 - Backrest height from seat: $3' - 5 \frac{9}{32}"$
 - Backrest width at seat: $3' - 2 \frac{9}{32}"$
 - Backrest depth from seat: $3'$
- Seat Dimensions:**
 - Seat width: $2' - 8 \frac{1}{2}"$
 - Seat depth: $13 \frac{1}{16}"$
- Legs:** Two curved legs extending from the seat to the floor.
- Assembly Details:** The drawing shows the backrest, seat, and legs with various joints and fasteners indicated by small circles and lines.

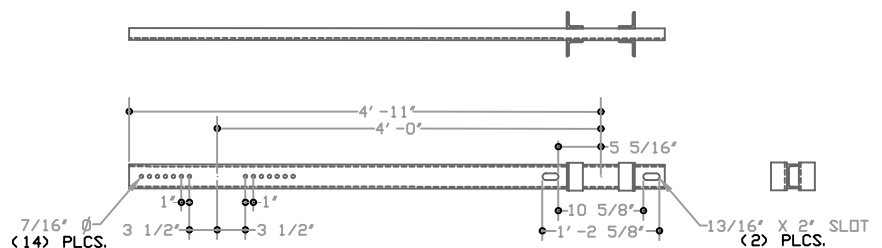


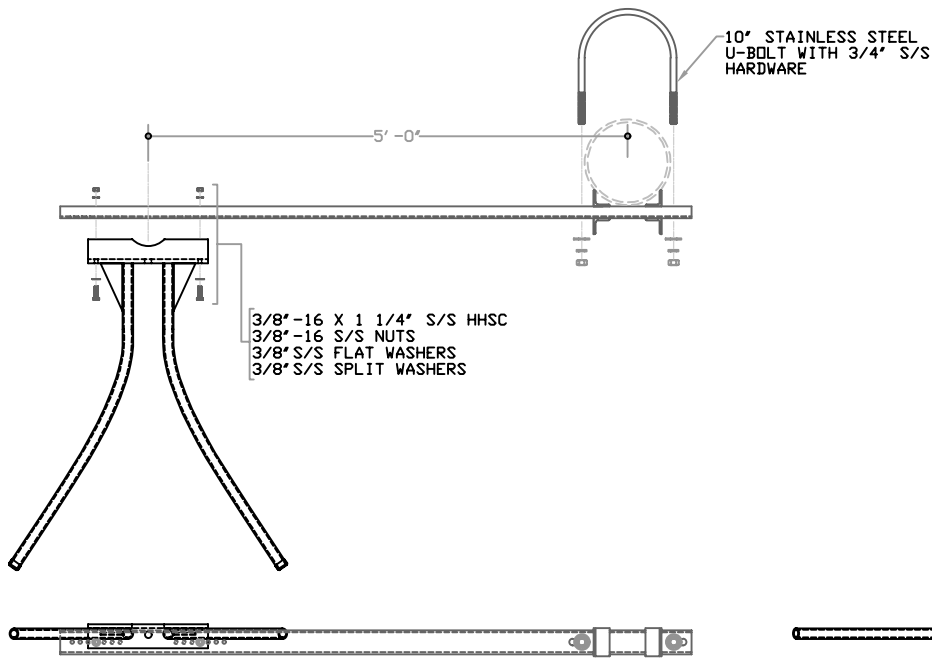
Diagram illustrating the components for a U-bolt assembly:

- (2) 3/8"-16 X 1 1/4' S/S HHSC
- (2) 3/8"-16 S/S NUTS
- (2) 3/8" S/S FLAT WASHERS
- (2) 3/8" S/S SPLIT WASHERS

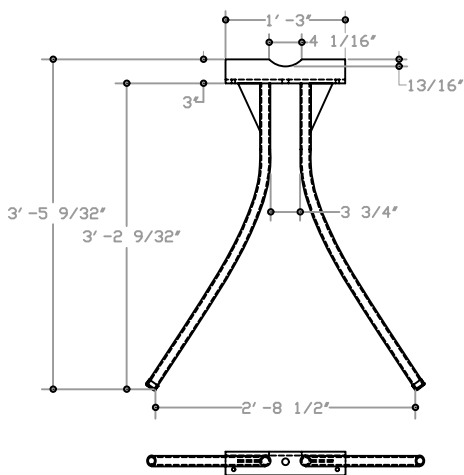
10" STAINLESS STEEL U-BOLT WITH 3/4" S/S HARDWARE

HIGHWAY COMBO, HIGH WIND ASSEMBLY 5'-0" OFFSET, 10" MAST MOUNTING

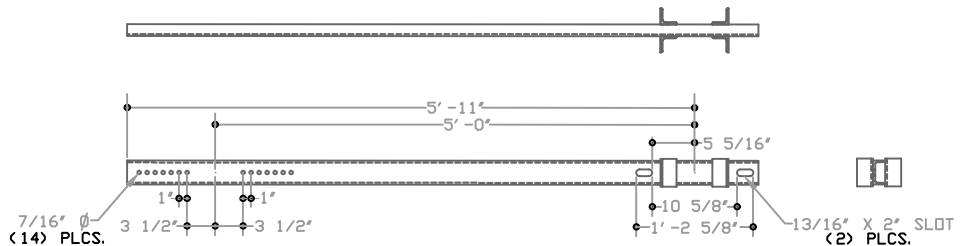
SEE PARTS BELOW FOR ORDERING



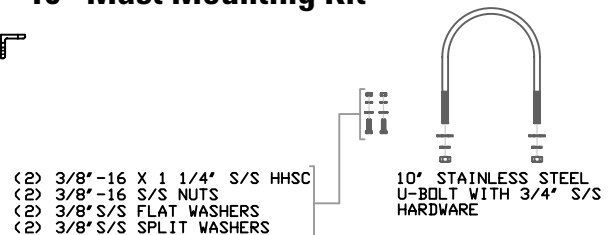
PART# 9459001512
High Wind Bracket



PART# 9459001542
High Wind Bracket Support Channel



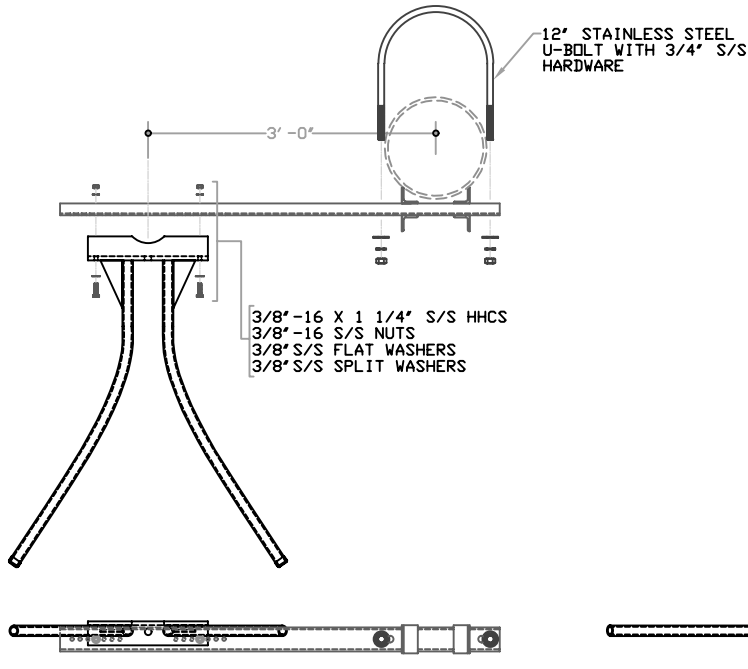
PART# 9454100104
High Wind Bracket
10" Mast Mounting Kit



HIGHWAY COMBO, HIGH WIND ASSEMBLY 3'-0" OFFSET, 12" MAST MOUNTING

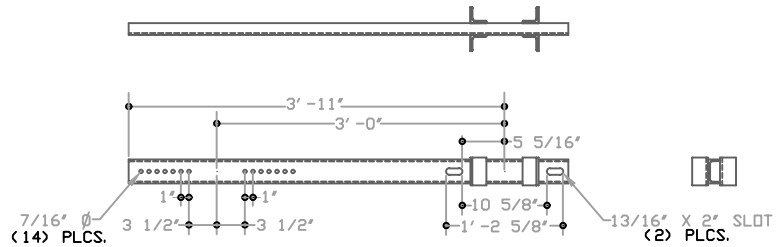
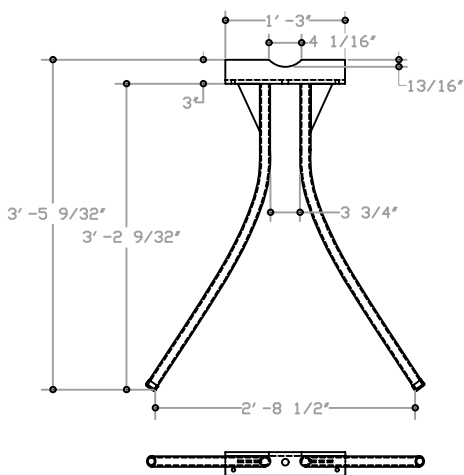
13

SEE PARTS BELOW FOR ORDERING



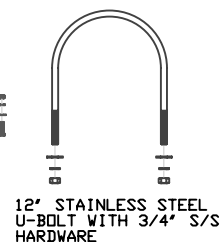
PART# 9459001512
High Wind Bracket

PART# 9459001513
High Wind Bracket Support Channel



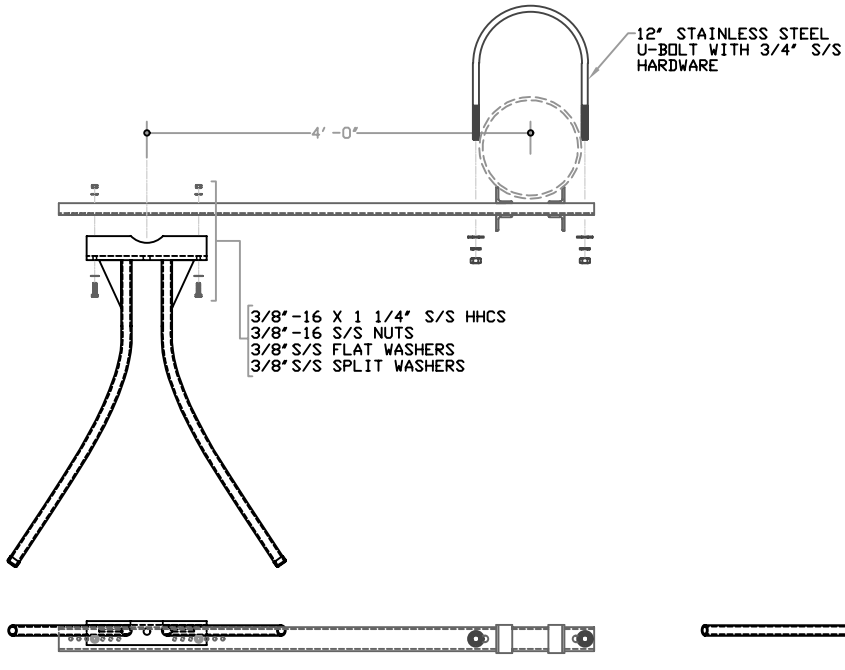
PART # 9454100105
High Wind Bracket Support Channel
12" Mast Mounting Kit

- (2) 3/8"-16 X 1 1/4" S/S HHCS
- (2) 3/8"-16 S/S NUTS
- (2) 3/8" S/S FLAT WASHERS
- (2) 3/8" S/S SPLIT WASHERS

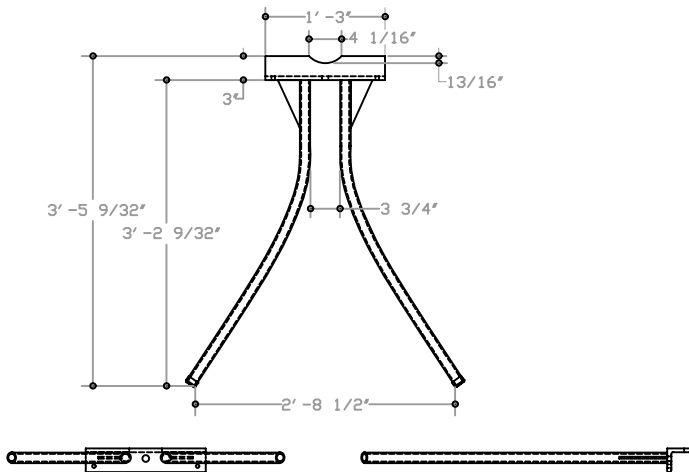


HIGHWAY COMBO, HIGH WIND ASSEMBLY 4'-0" OFFSET, 12" MAST MOUNTING

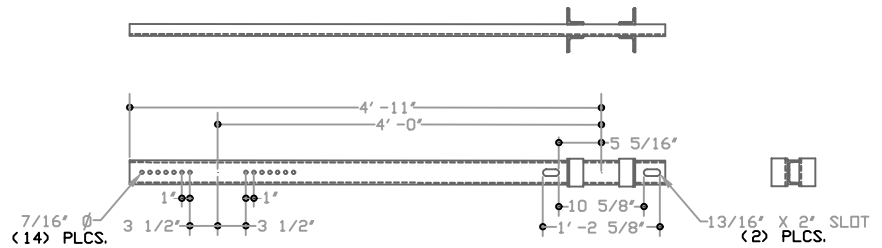
SEE PARTS BELOW FOR ORDERING



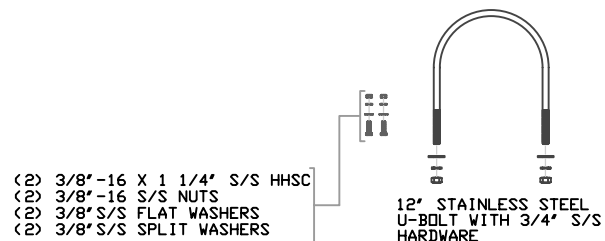
PART# 9459001512 High Wind Bracket



PART# 9459001541 High Wind Bracket Support Channel



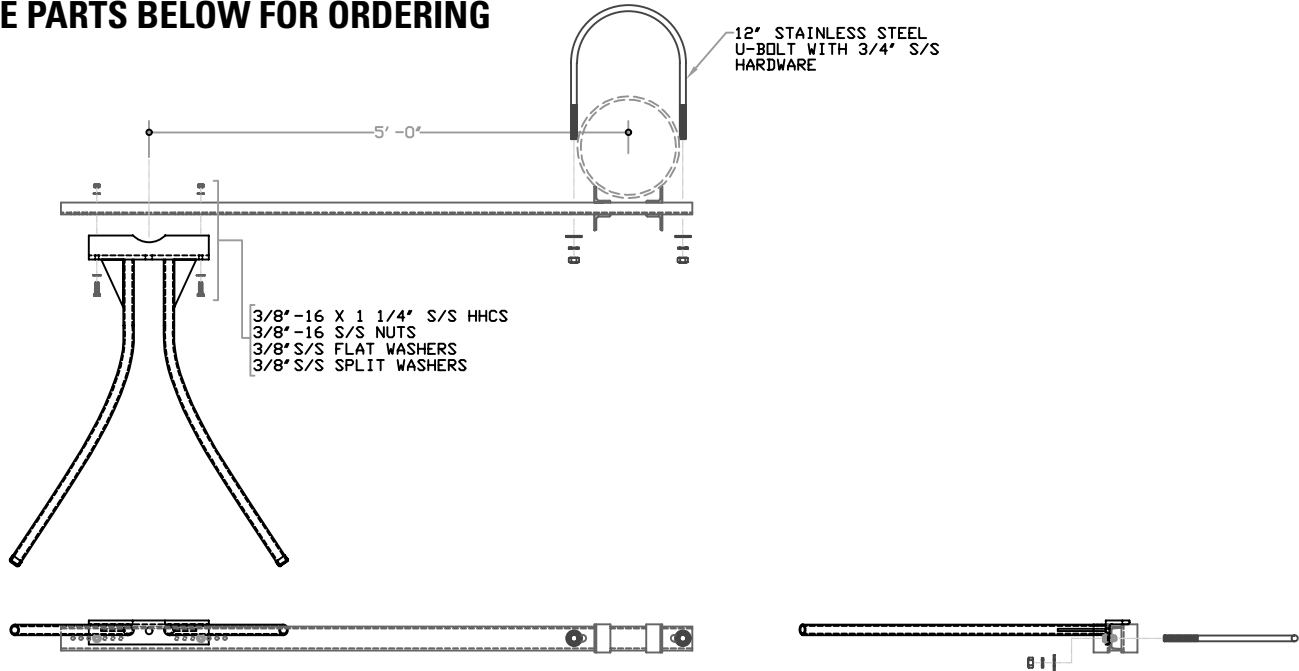
PART# 9454100105 High Wind Bracket 12" Mast Mounting Kit



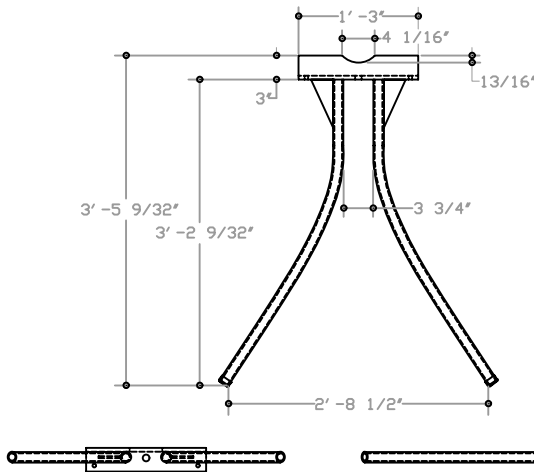
HIGHWAY COMBO, HIGH WIND ASSEMBLY 5'-0" OFFSET, 12" MAST MOUNTING

13

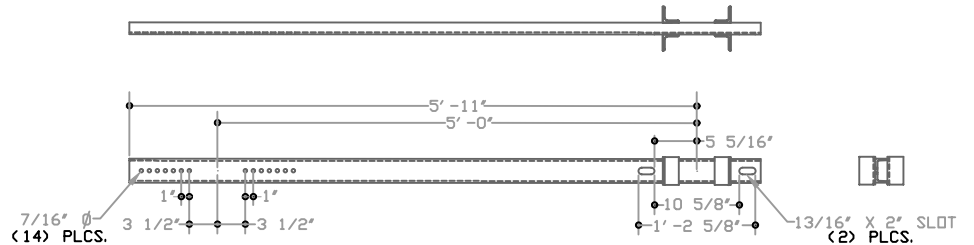
SEE PARTS BELOW FOR ORDERING



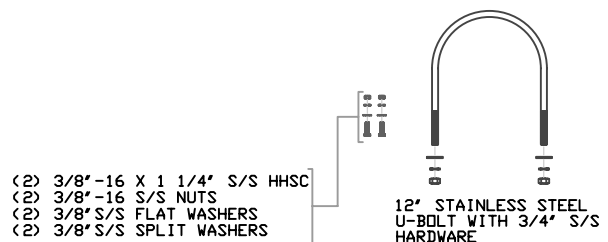
PART# 9459001512 High Wind Bracket



PART# 9459001542 High Wind Bracket Support Channel



PART# 9454100105 High Wind Bracket 12" Mast Mounting Kit



CABLE / CONNECTOR / CONDUIT / PLUGS

OKONITE WIRE / CABLE

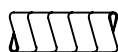
PART NUMBER	SIZE WIRE / CABLE	OKONITE P/N PART NUMBER
9422010201	16 TC Blue	152-11-3002
9422001152	16 Nylon Braid	152-12-9051
9422010213	14 TC Blue	152-11-3024
9450030600	10 TC Blue	152-11-3038
9422001150	10 Twisted Black Nylon Braid	151-12-9161
9422001014	10 ETFE Black	22756/16-10-0
9422001518	1 Conductor #6	112-24-2221
9422001522	1 Conductor #10	112-24-2131
9422001106	2 Conductor #6 Red / Black	150-12-3933
9422001218	3 Conductor #6 With Ground	206-11-6070
9422001556	5 Conductor #6 Under Ground Cable	206-11-6245
9422001559	5 Conductor #9 Under Ground Cable	206-11-6925
9450030650	5 Conductor #10 Color Coated	202-10-3505N
9422001580	7 Conductor #6 Under Ground Cable	206-11-6247
9422001579	7 Conductor #9 Under Ground Cable	206-11-6927
9422001574	7 Conductor #14 Under Ground Cable	206-11-6887
9422001595	12 Conductor #14 Under Ground Cable	206-11-6892

SEALTITE CONNECTORS



PART NUMBER	SIZE
9469010510	3/4"
9469010516	1"
9469010520	1 1/2"
9469010526	2"
9469010536	3"
9469010540	4"

SEALTITE CONDUIT



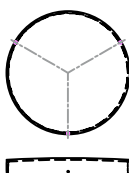
PART NUMBER	SIZE
9469010110	3/4"
9469010113	1"
9469010114	1 1/2"
9469010116	2"
9469010538	3"
9469010121	4"

PVC PLUGS



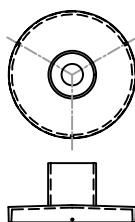
PART NUMBER	SIZE
9469000510	1"
9469000523	1 1/2"
9469000534	2"
9469000549	2"
9469000504	4"

PINNACLE



PART NUMBER	SIZE
9463000100	3/4"
9463000102	1"
9463000104	1 1/2"
9463000106	2"
9463000108	3"
9463000110	4"

BELL MOUNTING PINNACLE



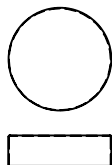
PART NUMBER	SIZE WIRE / CABLE	MAST SIZE
9463000090	5"	4"
9463000091	6"	4"
9463000092	6"	5"
9463000124	8"	4"
9463000125	8"	5"
9463000112	10"	4"
9463000113	10"	5"

PINNACLE SCREW



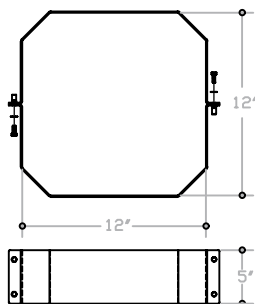
PART NUMBER
9454003810

ALUMINUM CAPS



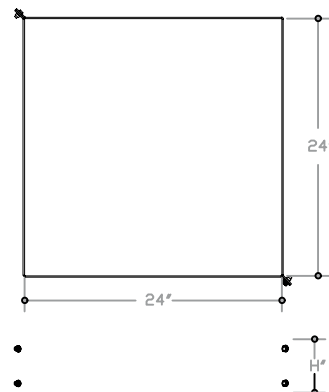
PART NUMBER	SIZE
9463100104	4"
9463100105	5"
9463100106	6"
9463100108	8"
9463100110	10"
9463100112	12"

5" SPLIT BASE J-BOX BASE SHROUD



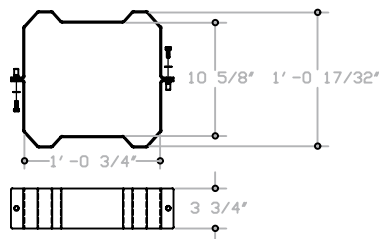
PART NUMBER
9454030094

STANDARD BASE SHROUD 24" X 24" X H"



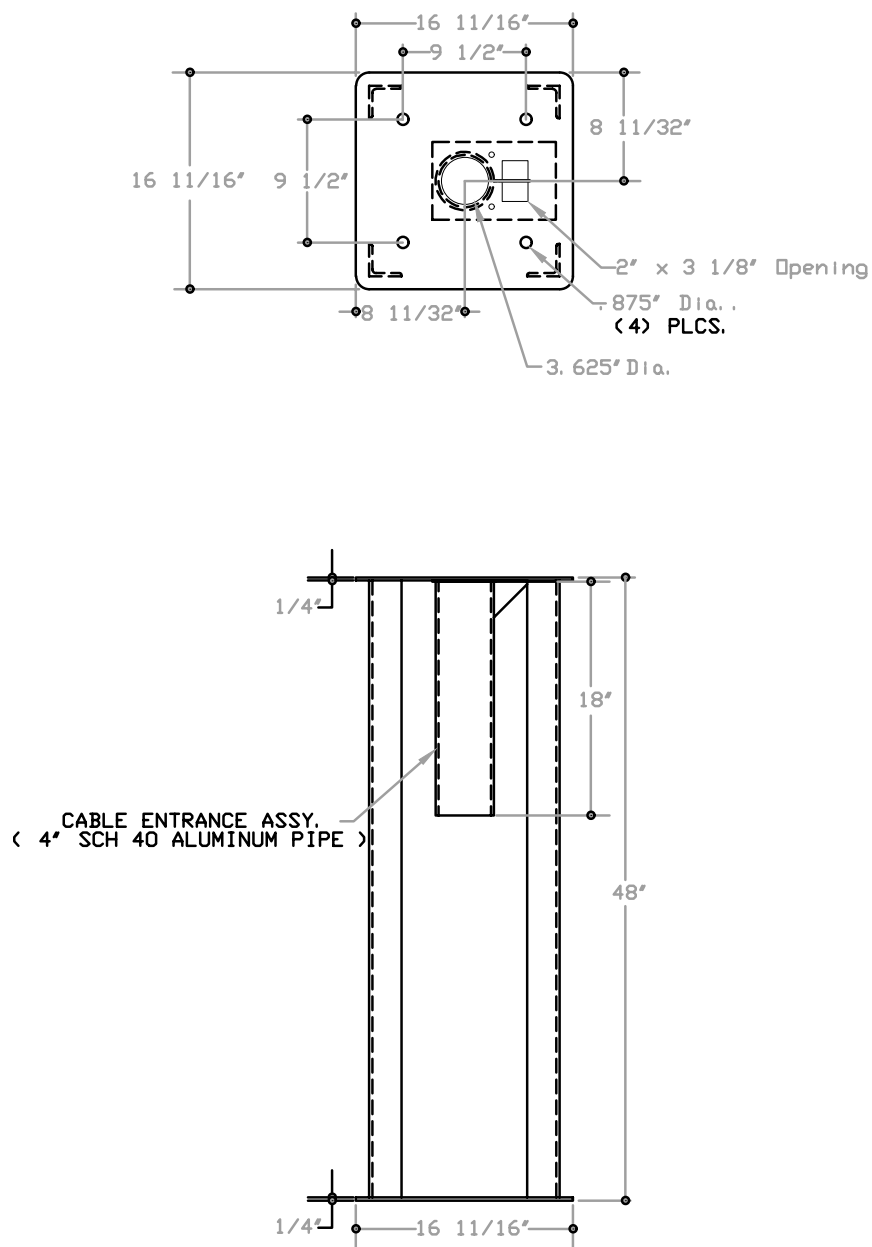
PART NUMBER	SIZE
9454030104	5"
9454030101	7"
9454030102	9"

4" SPLIT BASE J-BOX BASE SHROUD



PART NUMBER
9454030095

FLASHER FOUNDATION



PART# 9417001004

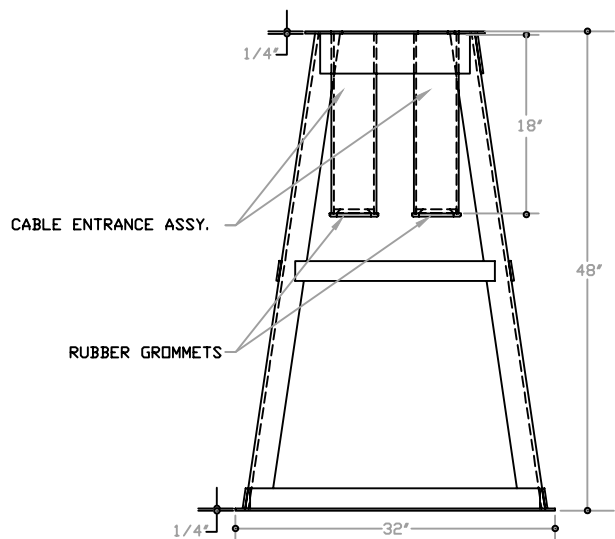
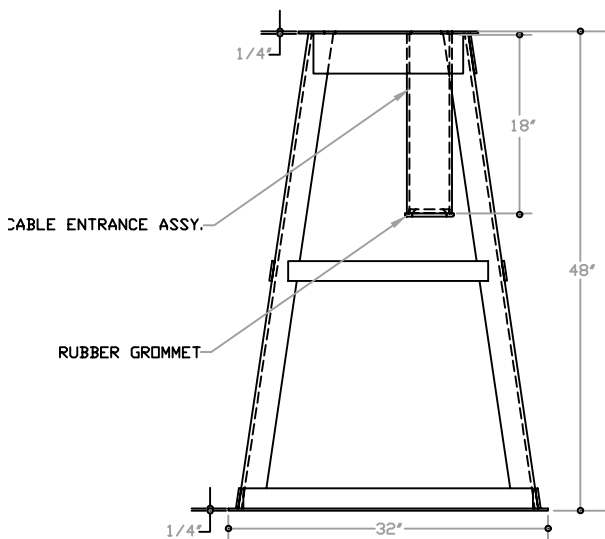
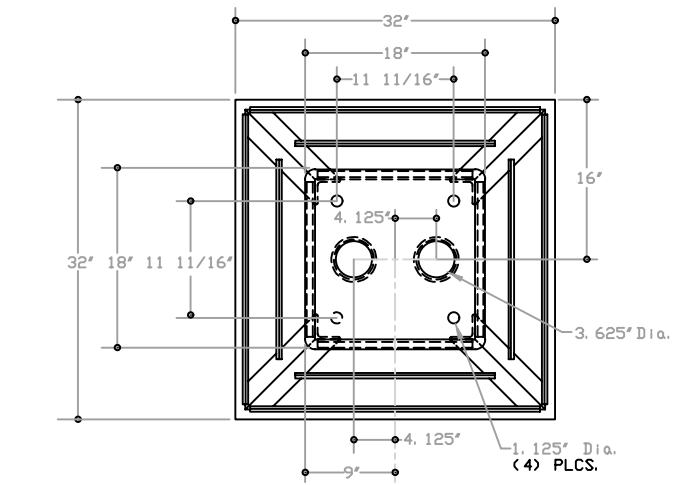
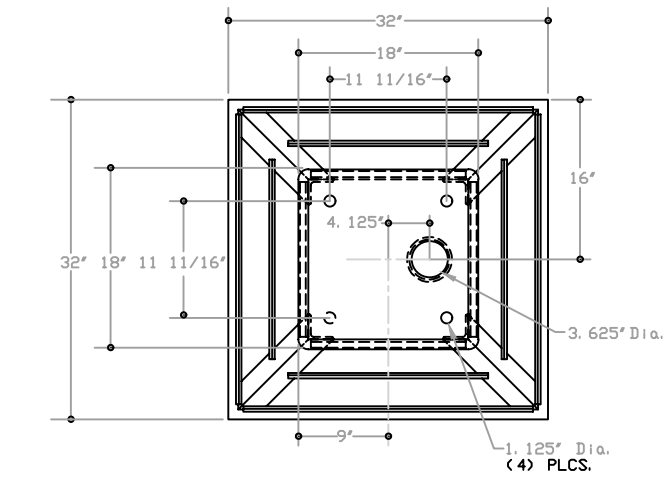
Flasher Foundation (Hot Dip Galv.)
(In Accordance with ASTM Spec. A123)

Included:

- (4) $\frac{3}{4}"$ -10 x $2 \frac{1}{2}"$ Hex Head Bolts (ZN)
- (4) $\frac{3}{4}"$ Flat Washers (ZN)
- (4) $\frac{3}{4}"$ -10 Hex Nuts (ZN)
- (Stock Item)

GATE FLASHER 48" TALL FOUNDATIONS

15



PART# 9417002040

Gate Flasher Foundation (Hot Dip Galv.)
(In Accordance with ASTM Spec. A123)

Included:

- (4) 1"-8 x 6" Hex Head Bolts (ZN)
(8) 1" Flat Washers (ZN)
(16) 1"-8 Hex Nuts (ZN)
(Stock Item)

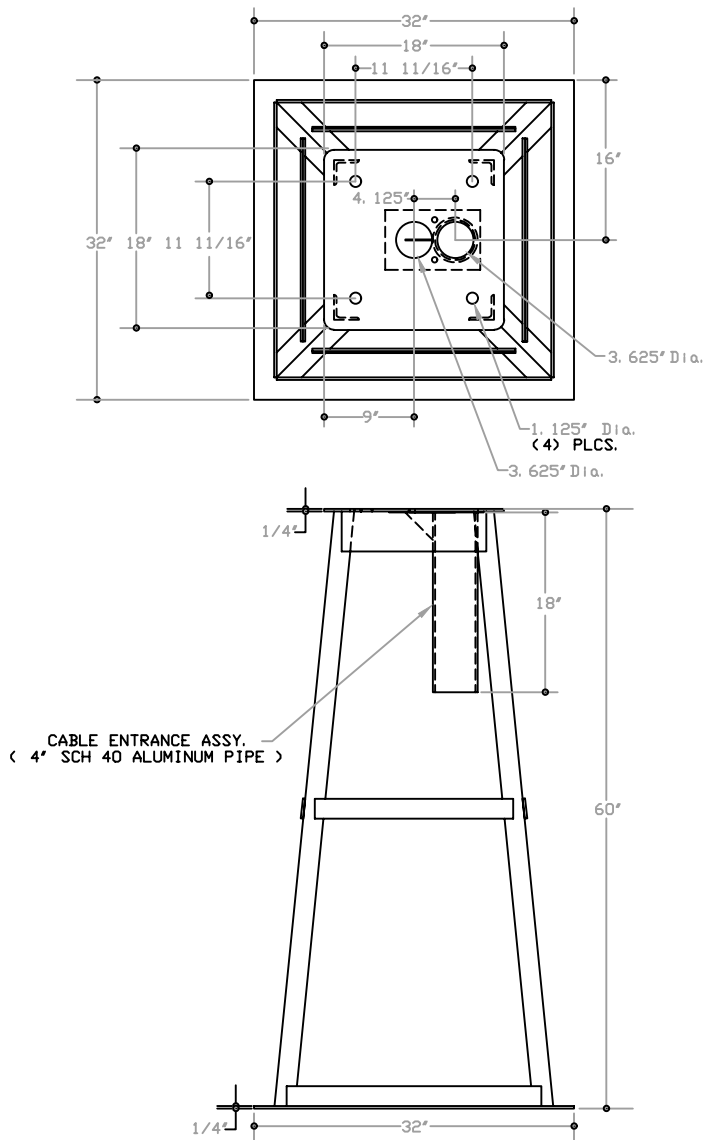
PART# 9417002053

Gate Flasher Foundation (Hot Dip Galv.)
(In Accordance with ASTM Spec. A123)

Included:

- (4) 1"-8 x 6" Hex Head Bolts (ZN)
(8) 1" Flat Washers (ZN)
(16) 1"-8 Hex Nuts (ZN)
(Made To Order)

GATE FLASHER, 60" TALL FOUNDATIONS

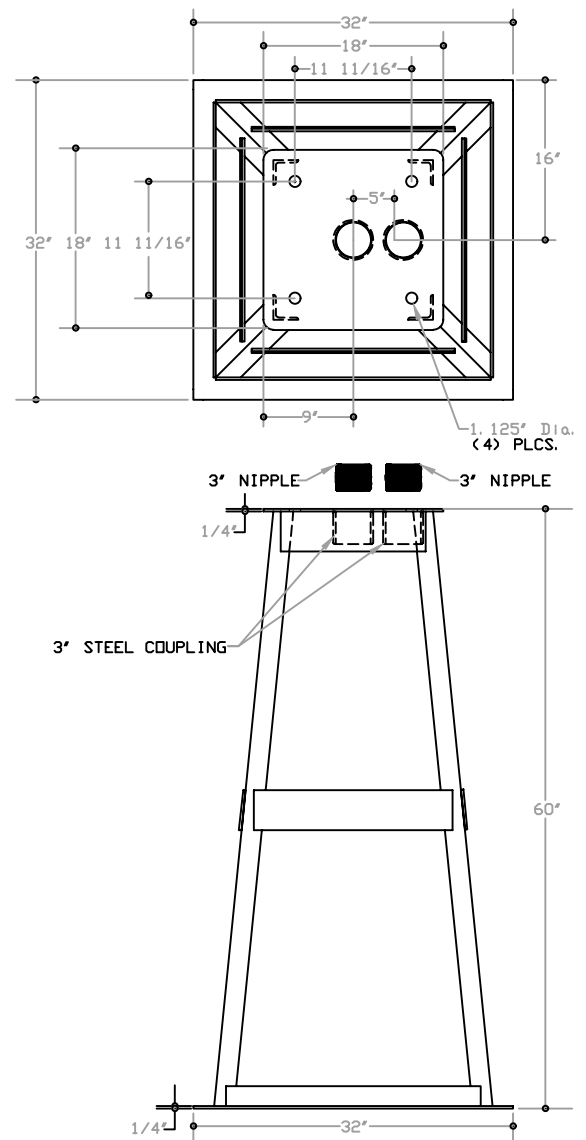


PART# 9417002004

Gate Flasher Foundation (Hot Dip Galv.)
(In Accordance With ASTM Spec. A123)

Included:

(4) 1"-8 X 6" LG. HEX HEAD BOLTS (ZN)
(8) 1" FLAT WASHERS (ZN)
(16) 1"-8 HEX NUTS (ZN)
(Stock Item)



PART# 9417002050

Gate Flasher Foundation (Hot Dip Galv.)
(In Accordance with ASTM Spec. A123)

Included:

(4) 1"-8 X 6" LG. HEX HEAD BOLTS (GALV)
(8) 1" FLAT WASHERS GALV)
(16) 1"-8 HEX NUTS (GALV)
(Made To Order)

5' SINGLE LEAVE-IN-PLACE FOUNDATION FORM

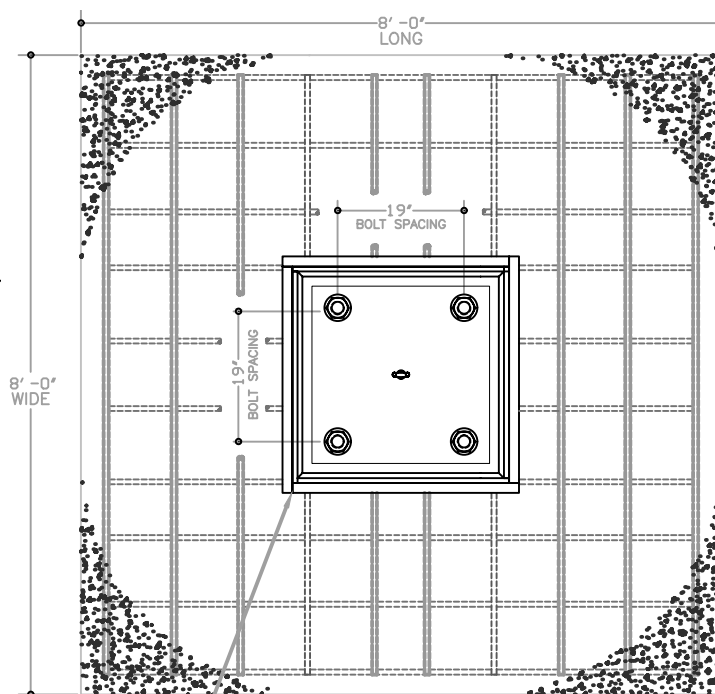
16

PART# 9417018603
(AREMA Approved)

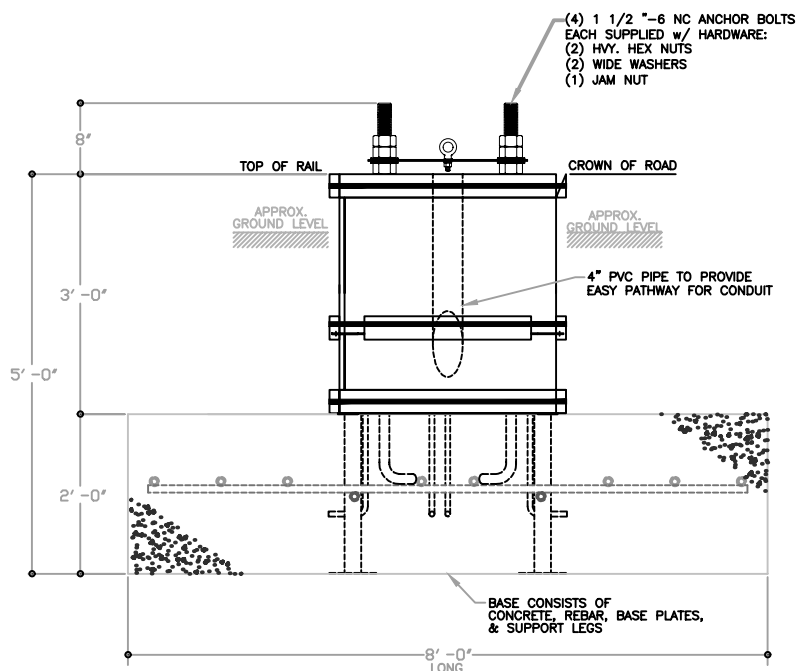
PLEASE NOTE:

1. THE DESIGN AND SIZE OF THIS FORM IS BASED ON PREVAILING SOIL BEING CAPABLE OF SUPPORTING 3000 psf. ACTUAL DESIGN WILL BE DETERMINED BY END USERS PREVAILING SOIL CONDITIONS.
2. EXCAVATE HOLE TO DESIRED SIZE AND DEPTH AND COMPACT BOTTOM OF HOLE.
3. LOWER FOUNDATION FORM IN PLACE AND LEVEL TOP OF COLUMN AT DESIRED HEIGHT ABOVE GRADE (TOP OF COLUMN IS TYPICALLY LEVEL WITH CROWN OF ROAD OR TOP OF RAIL).
4. USE 4000 PSI MINIMUM STRENGTH CONCRETE.
5. POUR 2'x8'x8' FOOTER, VIBRATE AND LEVEL CONCRETE. BACKFILL AROUND COLUMN AFTER BOTTOM HAS SET UP.
6. POUR COLUMN IN 12 IN. LIFTS, VIBRATING EACH LIFT THOROUGHLY. TROWEL AND FINISH TOP OF COLUMN.
7. NOTE: APPROXIMATELY 5.5 YARDS OF CONCRETE WILL BE NEEDED FOR INSTALLATION.
8. SOIL SAMPLES MUST BE TESTED TO INSURE ADEQUATE SOIL PRESSURE FOR THIS DESIGN.
9. FOUNDATIONS ARE DESIGN TO AREMA, ASTM AND ANSI STANDARDS FOR BOTH BOLTS AND REBAR.

NOTE: ANCHOR BOLTS AND REINFORCEMENT CAGE ARE HOT DIPPED GALVANIZED.



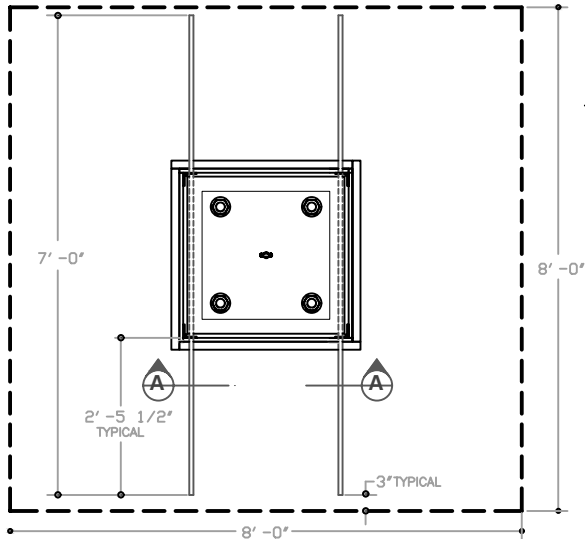
COLUMN CONSISTS OF ANCHOR BOLTS, CONCRETE, REBAR, & SUPPORT ANGLES



5' SINGLE LEAVE-IN-PLACE FOUNDATION FORM

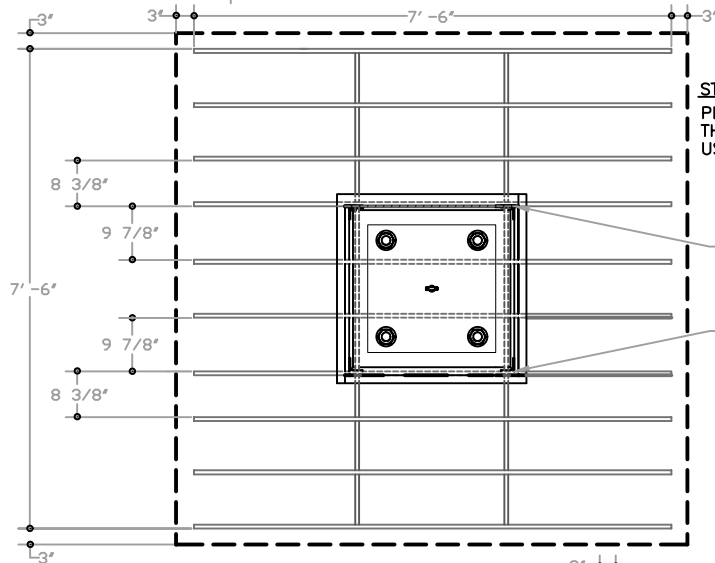
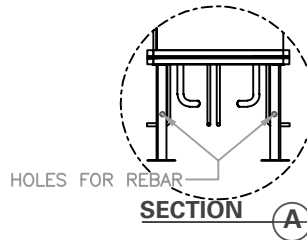
PART# 9417018603

(Footer Rebar Layout)



STEP 1:

PLACE 2 PIECES OF REBAR PARALLEL THROUGH HOLES IN LEGS.
USE TIE WIRE TO KEEP REBAR IN PLACE.



STEP 2:

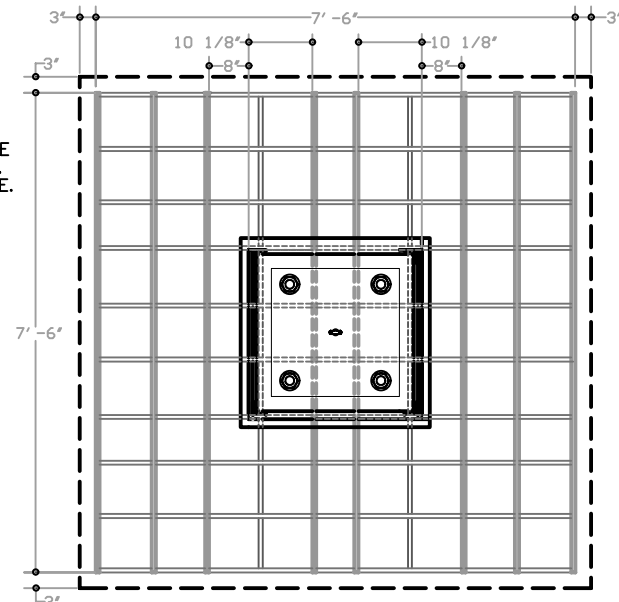
PLACE 10 PIECES OF REBAR ACROSS THE TOP OF REBAR IN LEGS AS INDICATED.
USE TIE WIRE TO KEEP REBAR IN PLACE.

PLACE AGAINST LEGS AS SHOWN

PLACE AGAINST LEGS AS SHOWN

STEP 3:

PLACE 8 PIECES OF REBAR ACROSS THE TOP OF PREVIOUS REBAR AS INDICATED.
USE TIE WIRE TO KEEP REBAR IN PLACE.



5' DOUBLE LEAVE-IN-PLACE FOUNDATION FORM

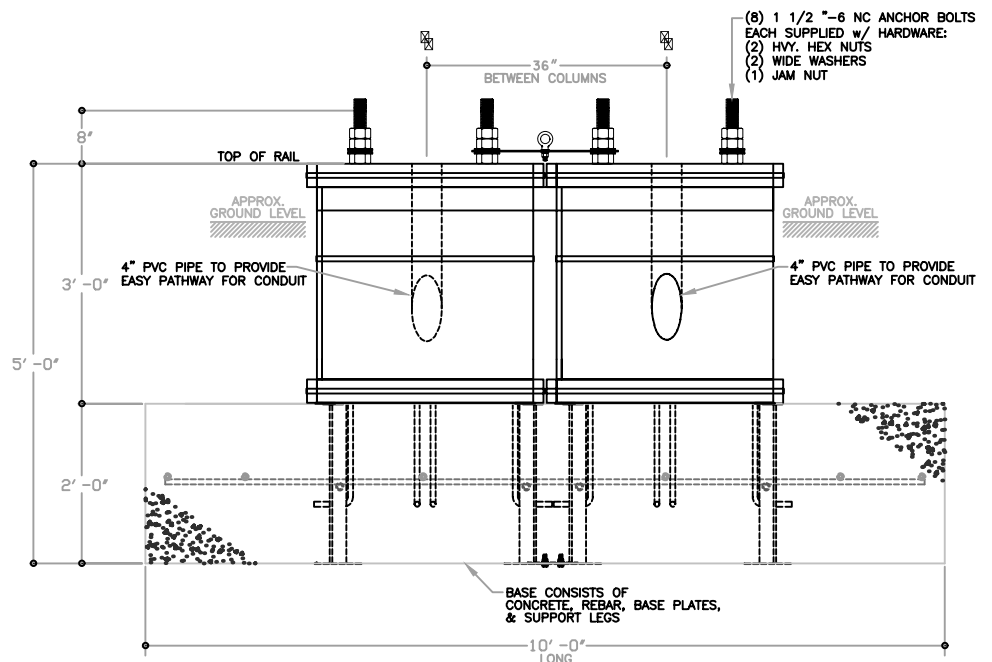
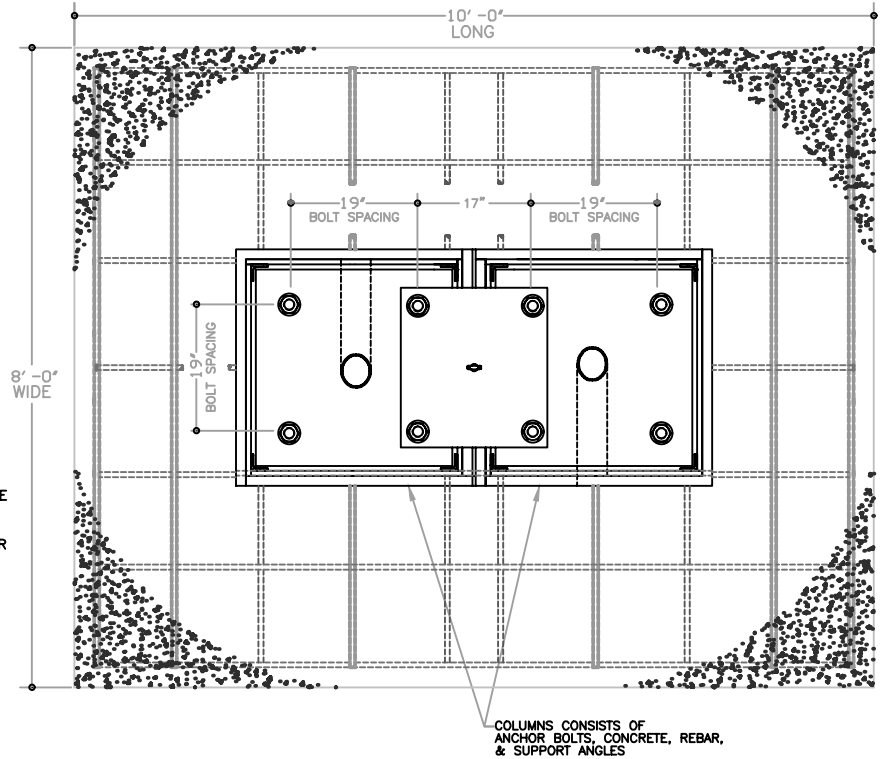
16

PART# 9417018605
(AREMA Approved)

PLEASE NOTE:

1. THE DESIGN AND SIZE OF THIS FORM IS BASED ON PREVAILING SOIL BEING CAPABLE OF SUPPORTING 3000 psf. ACTUAL DESIGN WILL BE DETERMINED BY THE END USERS PREVAILING SOIL CONDITIONS.
2. EXCAVATE HOLE TO DESIRED SIZE AND DEPTH THEN COMPACT THE BOTTOM OF HOLE.
3. LOWER FOUNDATION FORM IN PLACE AND LEVEL TOP OF COLUMN TO THE DESIRED LEVEL ABOVE THE GROUND. TOP OF COLUMN ARE NORMALLY LEVEL WITH THE CROWN OF ROAD OR TOP OF RAIL.
4. USE 4000 PSI MINIMUM STRENGTH CONCRETE.
5. POUR BOTTOM SECTION OF FOUNDATION UP TO BOTTOM OF COLUMN. VIBRATE AND LEVEL CONCRETE. BACKFILL AROUND COLUMN AFTER BOTTOM HAS SET UP.
6. POUR COLUMN IN 12 IN. LIFTS, VIBRATING EACH LIFT THOROUGHLY. TROWEL AND FINISH TOP OF COLUMN.
7. NOTE: APPROXIMATELY 7 CUBIC YDS OF CONCRETE WILL BE NEEDED FOR INSTALLATION.
8. SOIL SAMPLES MUST BE TESTED TO INSURE ADEQUATE SOIL PRESSURE FOR THIS DESIGN.
9. FOUNDATIONS ARE DESIGN TO AREMA, ASTM AND ANSI STANDARDS FOR BOTH BOLTS AND REBAR.

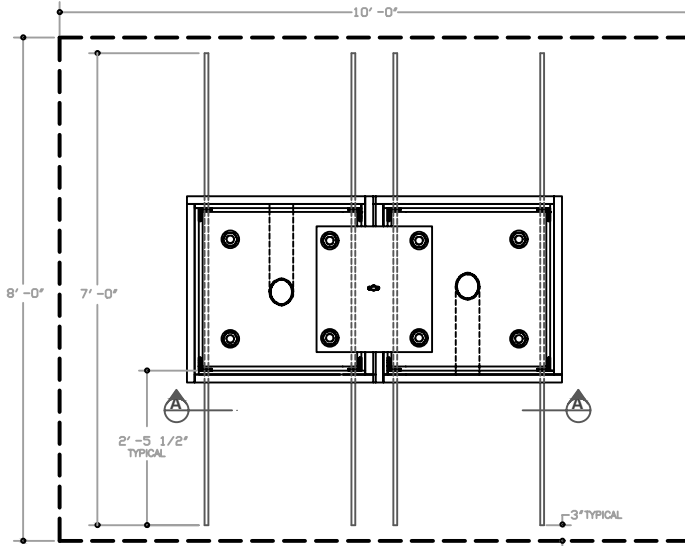
NOTE: ANCHOR BOLTS AND REINFORCEMENT CAGE ARE HOT DIPPED GALVANIZED. ANCHOR BOLTS SIZE IS: 1 1/2" -6 REINFORCEMENT CAGE IS MADE OF 3/8" REBAR, 1/4" x 2 1/2" x 2 1/2" ANGLE, AND 1/4" x 2" FLATBAR.



5' DOUBLE LEAVE-IN-PLACE FOUNDATION FORM

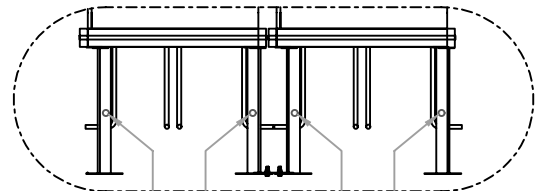
PART# 9417018605

(Footer Rebar Layout)



STEP 1:

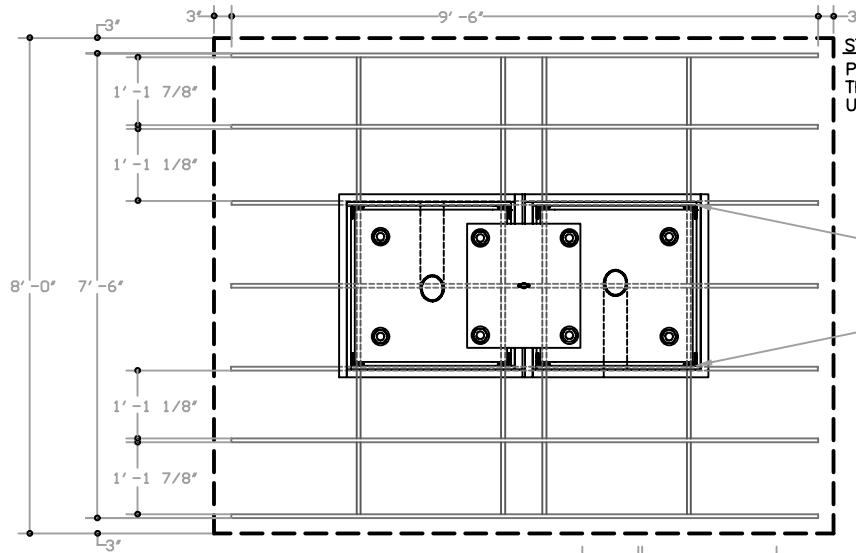
PLACE 4 PIECES OF REBAR PARALLEL THROUGH HOLES IN LEGS. USE TIE WIRE TO KEEP REBAR IN PLACE.



HOLES FOR REBAR

SECTION A

HOLES FOR REBAR



STEP 2:

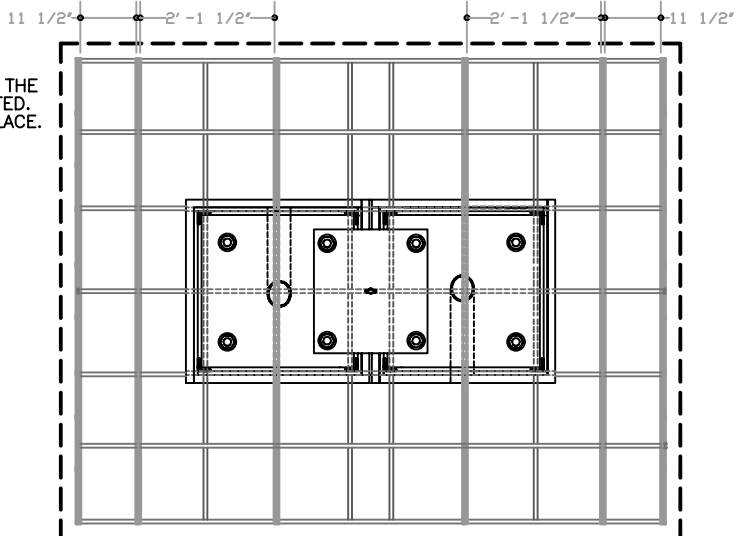
PLACE 7 PIECES OF REBAR ACROSS THE TOP OF REBAR IN LEGS AS INDICATED. USE TIE WIRE TO KEEP REBAR IN PLACE.

PLACE AGAINST LEGS AS SHOWN

PLACE AGAINST LEGS AS SHOWN

STEP 3:

PLACE 6 PIECES OF REBAR ACROSS THE TOP OF PREVIOUS REBAR AS INDICATED. USE TIE WIRE TO KEEP REBAR IN PLACE.



7' SINGLE LEAVE-IN-PLACE FOUNDATION FORM

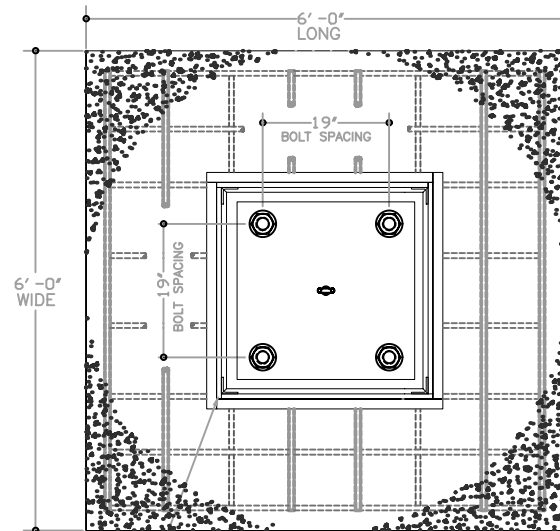
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PART# 9417018350
(AREMA Approved)

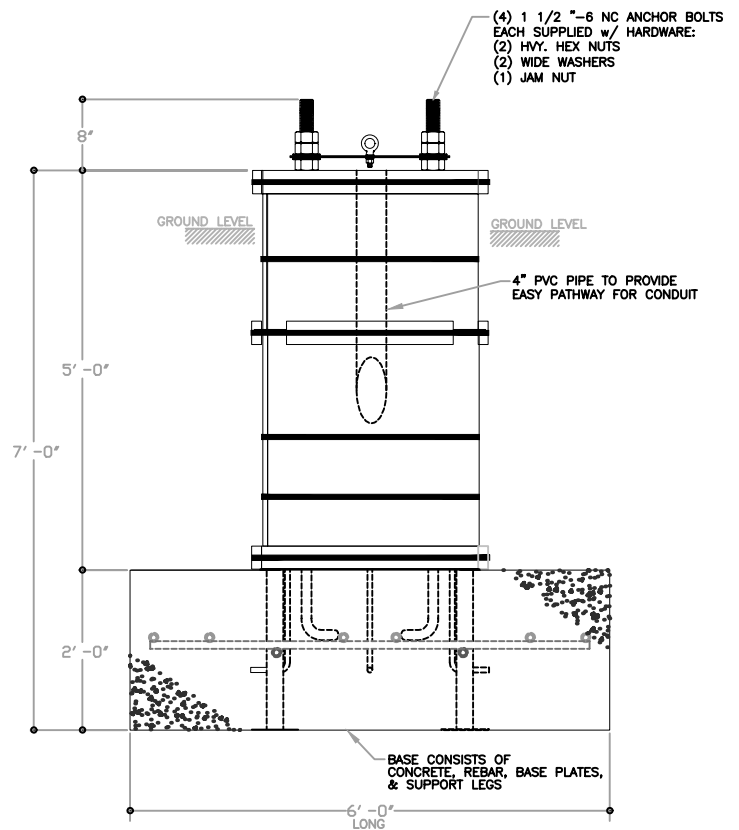
PLEASE NOTE:

1. THE DESIGN AND SIZE OF THIS FORM IS BASED ON PREVAILING SOIL BEING CAPABLE OF SUPPORTING 3000 psf. ACTUAL DESIGN WILL BE DETERMINED BY END USERS PREVAILING SOIL CONDITIONS.
2. EXCAVATE HOLE TO DESIRED SIZE AND DEPTH AND COMPACT BOTTOM OF HOLE.
3. LOWER FOUNDATION FORM IN PLACE AND LEVEL TOP OF COLUMN AT DESIRED HEIGHT ABOVE GRADE (TOP OF COLUMN IS TYPICALLY LEVEL WITH CROWN OF ROAD OR TOP OF RAIL).
4. USE 4000 PSI MINIMUM STRENGTH CONCRETE.
5. POUR 2'x6'x6' FOOTER, VIBRATE AND LEVEL CONCRETE. BACKFILL AROUND COLUMN AFTER BOTTOM HAS SET UP.
6. POUR COLUMN IN 12 IN. LIFTS, VIBRATING EACH LIFT THOROUGHLY. TROWEL AND FINISH TOP OF COLUMN.
7. NOTE: APPROXIMATELY 3.5 YARDS OF CONCRETE WILL BE NEEDED FOR INSTALLATION.
8. SOIL SAMPLES MUST BE TESTED TO INSURE ADEQUATE SOIL PRESSURE FOR THIS DESIGN.
9. FOUNDATIONS ARE DESIGN TO AREMA, ASTM AND ANSI STANDARDS FOR BOTH BOLTS AND REBAR.

NOTE: ANCHOR BOLTS AND REINFORCEMENT CAGE ARE HOT DIPPED GALVANIZED.



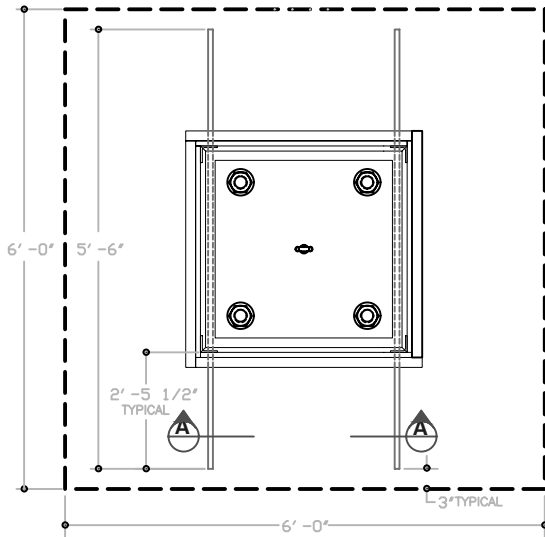
COLUMN CONSISTS OF ANCHOR BOLTS, CONCRETE, REBAR, & SUPPORT ANGLES



7' SINGLE LEAVE-IN-PLACE FOUNDATION FORM

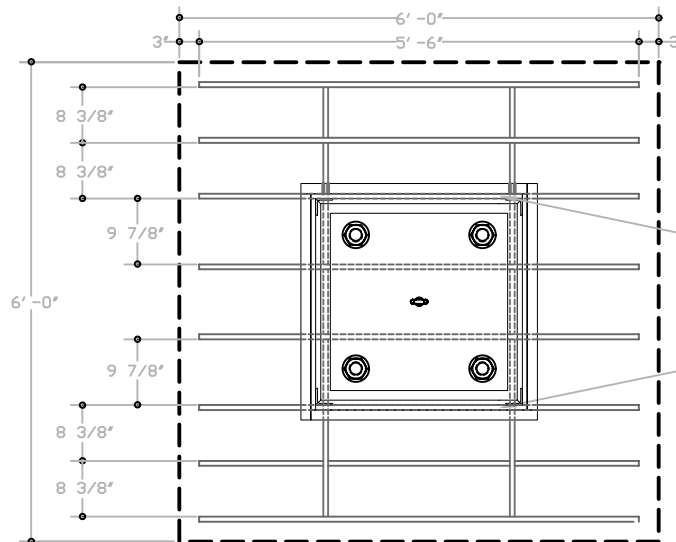
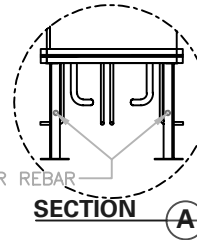
PART# 9417018350

(Footer Rebar Layout)



STEP 1:

PLACE 2 PIECES OF REBAR PARALLEL THROUGH HOLES IN LEGS.
USE TIE WIRE TO KEEP REBAR IN PLACE.



STEP 2:

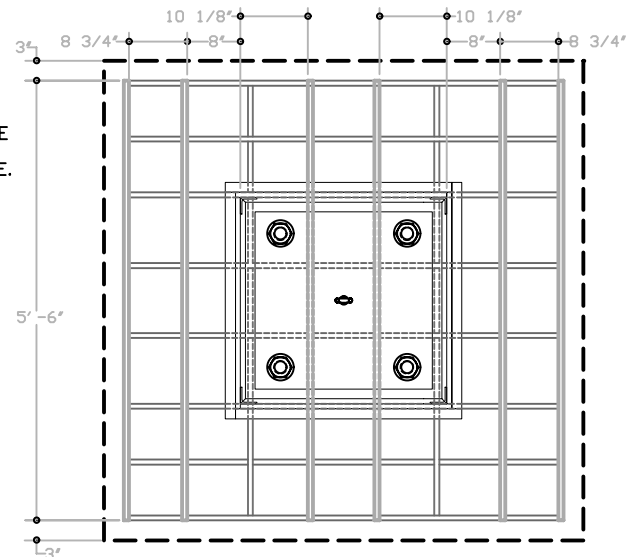
PLACE 8 PIECES OF REBAR ACROSS THE TOP OF REBAR IN LEGS AS INDICATED
USE TIE WIRE TO KEEP REBAR IN PLACE.

PLACE AGAINST LEGS AS SHOWN

PLACE AGAINST LEGS AS SHOWN

STEP 3:

PLACE 6 PIECES OF REBAR ACROSS THE TOP OF PREVIOUS REBAR AS INDICATED.
USE TIE WIRE TO KEEP REBAR IN PLACE.

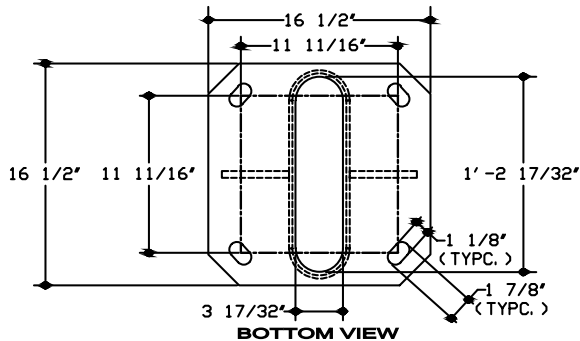
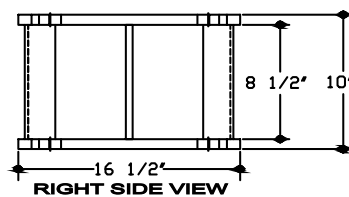
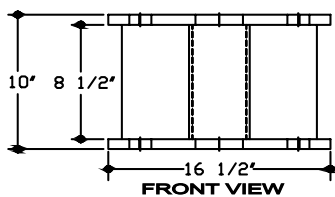
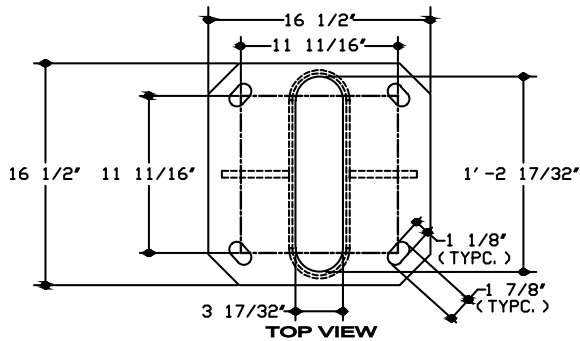
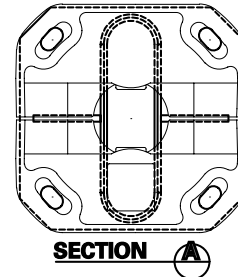
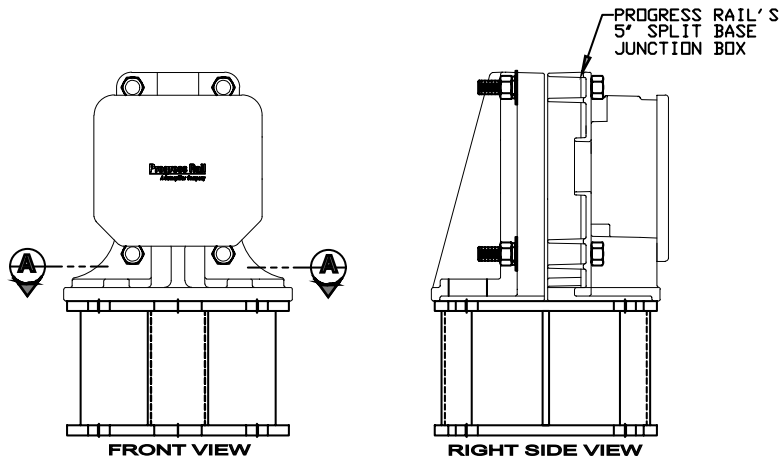


GATE FLASHER BASE ADAPTER

11 11/16" SQ. TO 11 11/16" SQ. BOLT PATTERN

PART# 9463090219

17

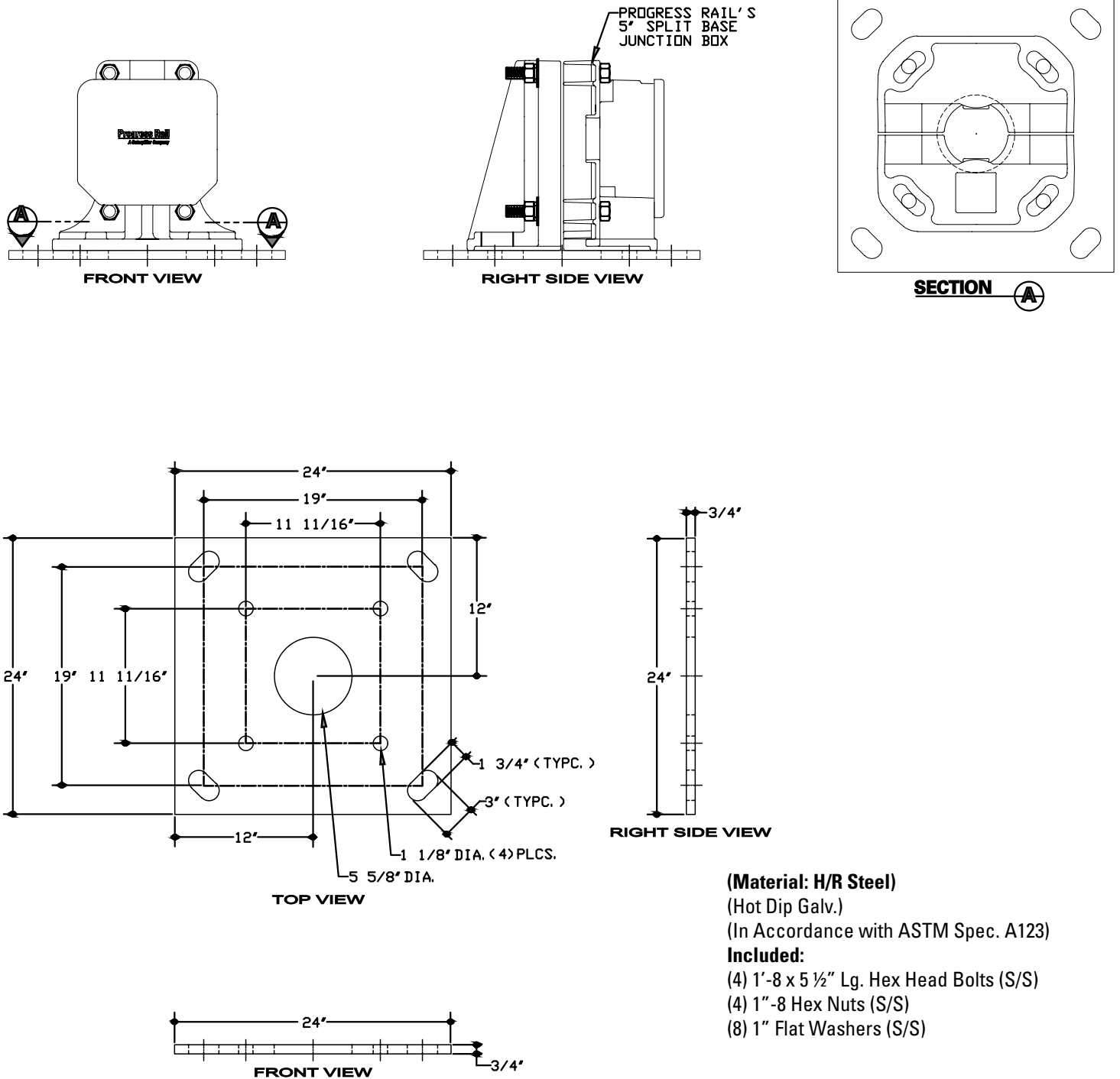


(Material: H/R Steel)
 (Hot Dip Galv.)
 (In Accordance with ASTM Spec. A123)
Included:
 (4) 1'-8 x 3 1/2" Lg. Hex Head Bolts (S/S)
 (4) 1"-8 Hex Nuts (S/S)
 (8) 1" Flat Washers (S/S)

HIGHWAY CANTILEVER BASE ADAPTER **19" SQ TO 11 11/16" SQ BOLT**

PART# 9463055166

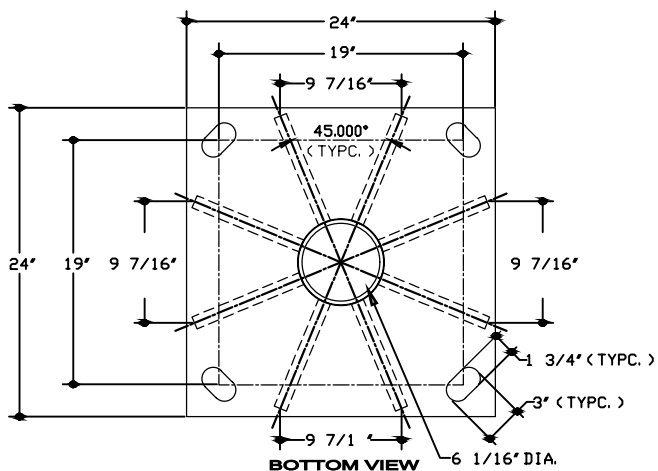
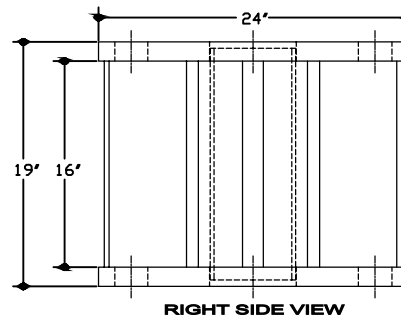
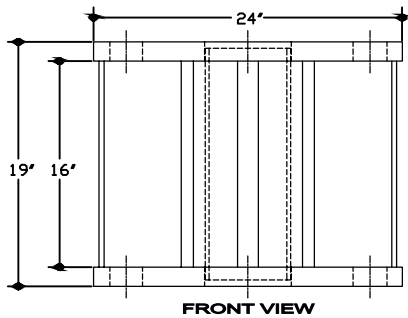
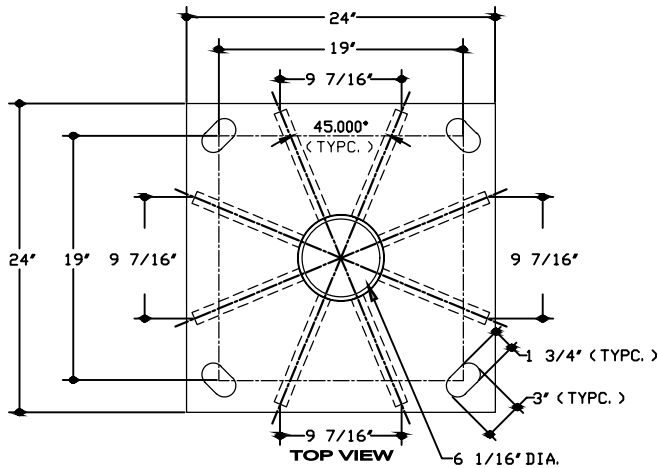
AASHTO 100 MPH, Up To 26' Cantilever



HIGHWAY CANTILEVER BASE ADAPTER 19" SQ. TO 19" SQ. BOLT PATTERN

17

PART# 9463055166
AASHTO 100 MPH, Up To 26' Cantilever

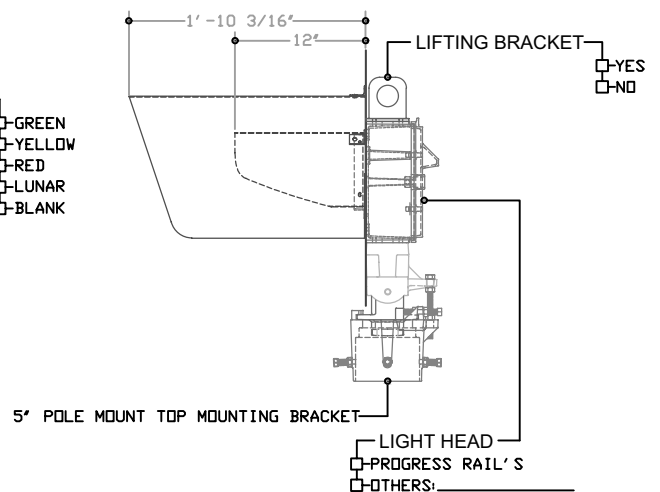
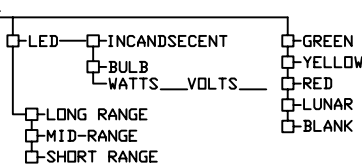
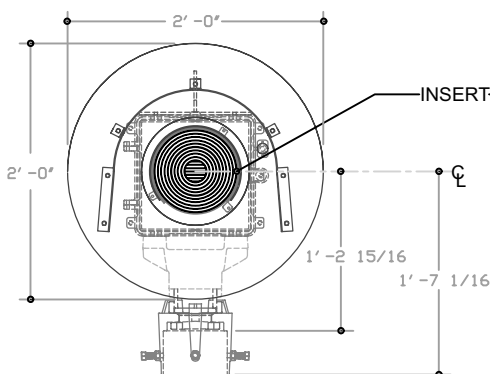
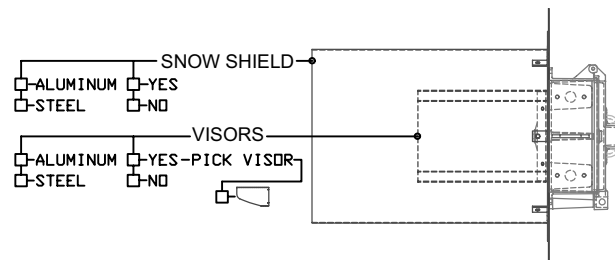


(Material: H/R Steel)
(Hot Dip Galv.)
(In Accordance with ASTM Spec. A123)
Included:
(4) 1'-8 x 5 1/2" Lg. Hex Head Bolts (S/S)
(4) 1"-8 Hex Nuts (S/S)
(8) 1" Flat Washers (S/S)

ONE ASPECT COLOR LIGHT

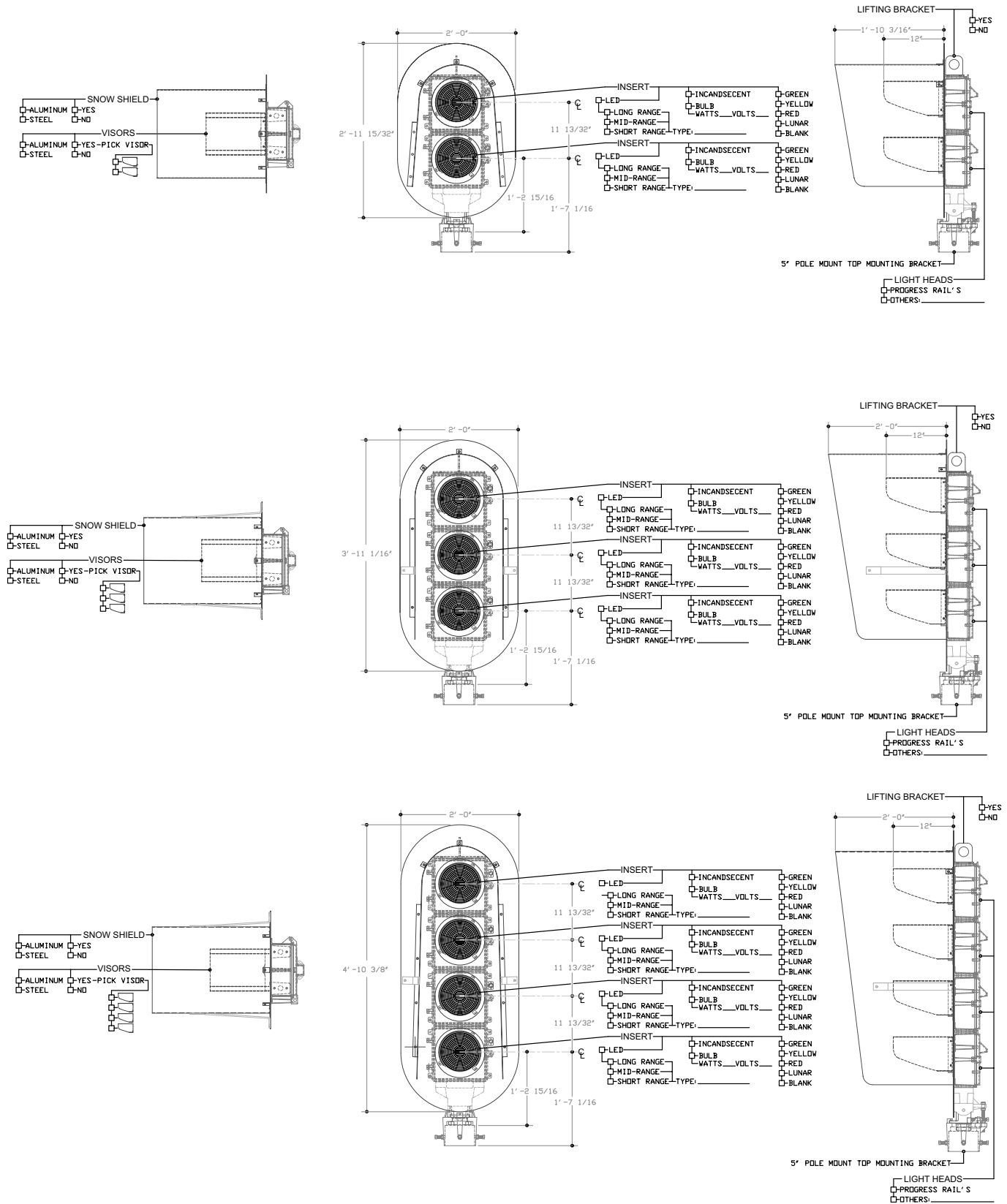
Notes:

1. Meets or exceeds all recommended design criteria specified in AREMA C&S Manual part 7.1.1
2. Meets or exceeds all recommended environmental requirements specified in AREMA C&S Manual part 11.5.1, and successfully passed all independent lab test.
3. Design for incandescent bulbs or LEDs.
4. All maintenance can be easily performed by accessing the light internal components from the back of the signal head.
5. Constructed of lightweight, precision die-cast aluminum.
6. Individual access doors can be interlocked and secured with a lock rod.
7. Signal heads can be vertically stacked or arranged in a "V" configuration.
8. Individual heads can be fitted with visors, and stacks can be fitted with snow shields (as shown).
9. Incandescent lights have factory-set lamps for optimal focus and visibility.
10. Top-of-mast mounting base provides front-to-back and side-to-side rotational adjustment.
11. Light internal components can be easily removed so that a standard field sighting device can be installed for signal head alignments.
12. All electronic components and hardware are AAR-type designs (resistors, terminal block, etc.).
13. All uncoated and coated hardware is stainless steel or aluminum.



TWO, THREE, AND FOUR ASPECT COLOR LIGHT CONFIGURATIONS

18



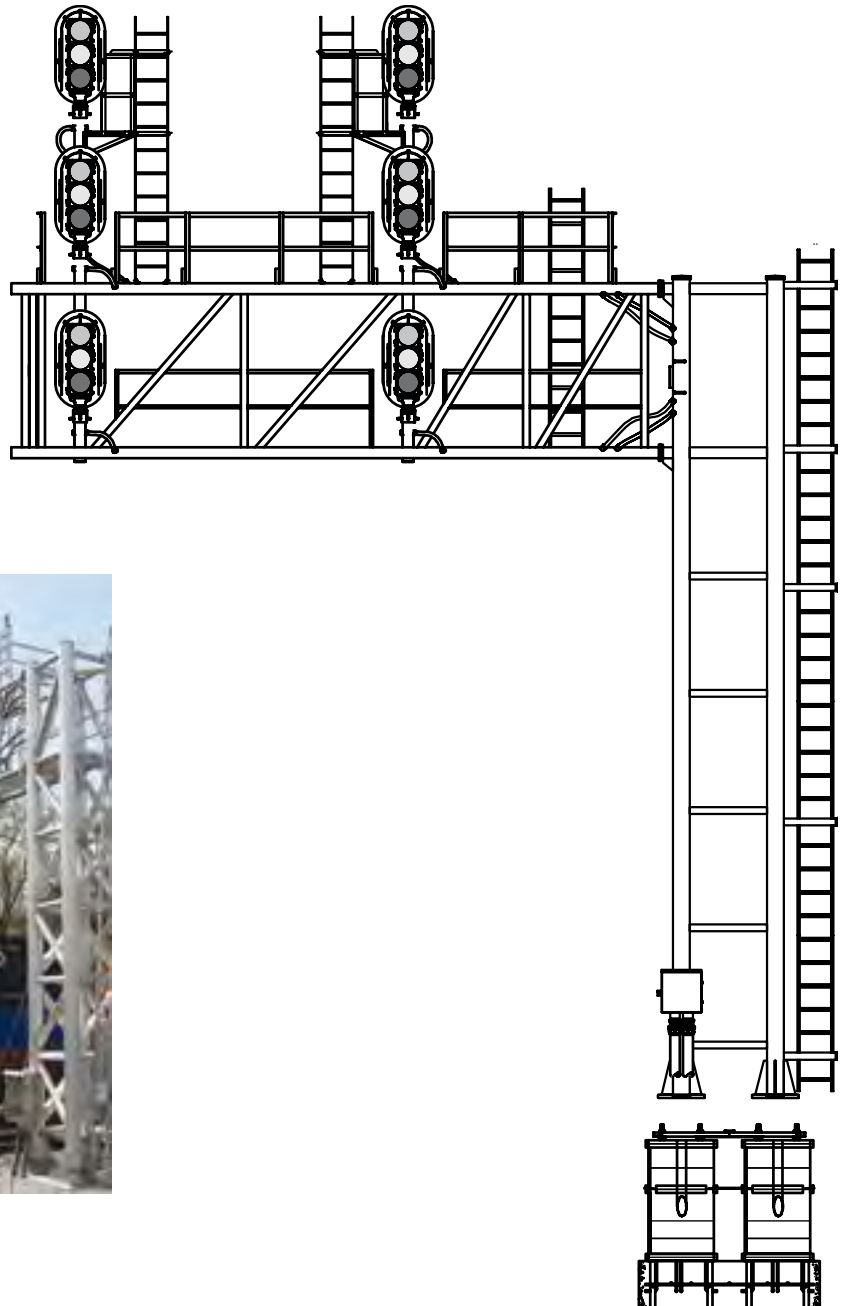
FOUR-POST WAYSIDE SIGNAL CANTILEVER ASSEMBLY

Progress Rail designs and manufactures four post cantilevers for train control signals.

Length of arm, light mounts and track clearance are all determined by the customer specifications.

Special features of wayside signal cantilevers include: 16" wide ladder with full length safety cage, lights mounted inside of arm for safer maintenance, special platform for accessing 3rd light heads and easy 16 bolt assembly for mounting arm to masts.

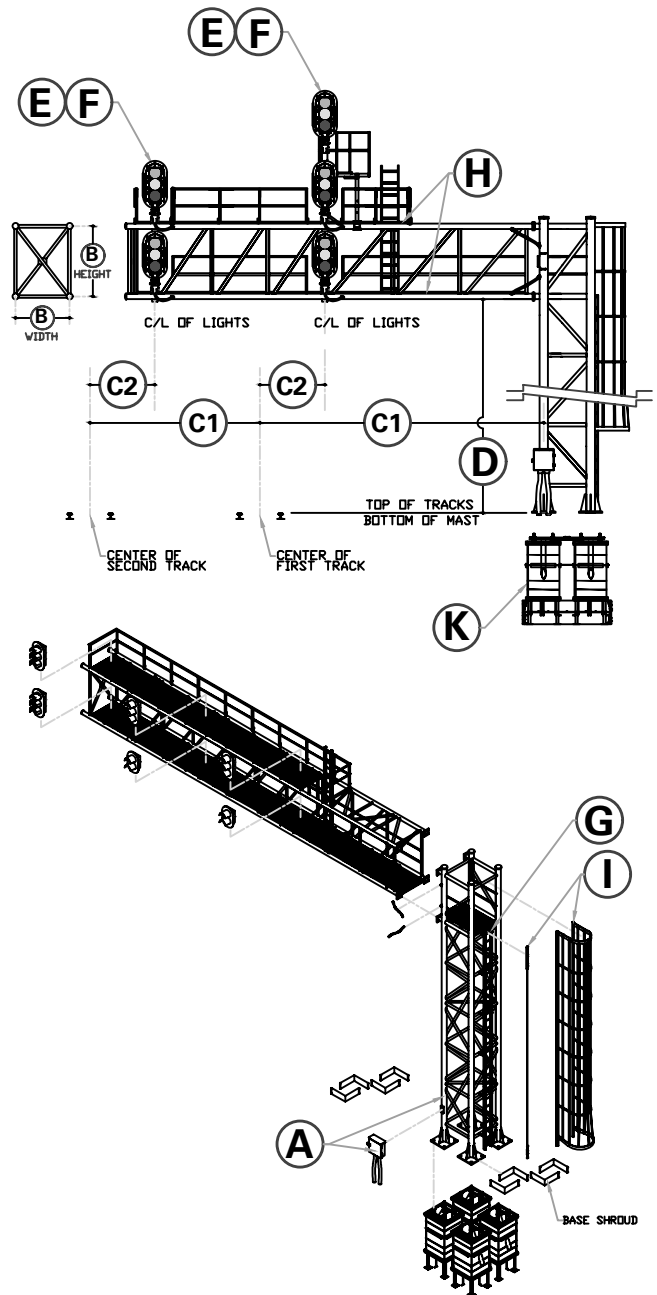
These structures are design to meet or exceed AAR specifications and are completely constructed of 6061-T6 aluminum.



FOUR-POST WAYSIDE SIGNAL CANTILEVER ASSEMBLY

19

A	MAST	TRACKSIDE: <input type="checkbox"/> RH <input type="checkbox"/> LH JUNCTION BOX: <input type="checkbox"/> 20" H X 20" W X 7" D (WITH TWO 4" ALUM. BOTTOM COUPLINGS) <input type="checkbox"/> 39 3/4" H X 28 1/2" W X 14" D (WITH THREE 4" ALUM. BOTTOM COUPLINGS) ERICO GROUND WIRE <input type="checkbox"/> 6'-0" <input type="checkbox"/> 8'-0" <input type="checkbox"/> NONE																																
B	ARM SIZE	<input type="checkbox"/> 6'-0" H X 4'-0" W <input type="checkbox"/> 7'-0" H X 4'-0" W																																
C1	TRACK SPACING	<i>Customer to specify track spacing</i> Center Of Mast Leg Closest To Track To Center Of First Track _____ FT. _____ IN. Center Of First Track To Center Of Second Track _____ FT. _____ IN. Center Of Second Track To Center Of Third Track _____ FT. _____ IN. Center Of Third Track To Center Of Forth Track _____ FT. _____ IN.																																
C2	TRACK OFF SET	<input type="checkbox"/> 28" RIGHT OF RAIL <input type="checkbox"/> 40" RIGHT OF RAIL <input type="checkbox"/> NO OFFSET																																
D	CLEARANCE HEIGHT	CLEARANCE HEIGHT OF ARM <input type="checkbox"/> 27'-6" <input type="checkbox"/> 27'-11 3/4" <input type="checkbox"/> OTHER: _____ FT. _____ IN. <input type="checkbox"/> 28'-0"																																
E	SIGNAL SPECS.	<input type="checkbox"/> PROGRESS RAIL HEAD <input type="checkbox"/> Others: _____ <input type="checkbox"/> ALUMINUM BACKGROUND <input type="checkbox"/> STEEL BACKGROUND VISORS: <input type="checkbox"/> YES <input type="checkbox"/> NO VISORS ONLY ON: _____ SNOW SHIELD: <input type="checkbox"/> YES <input type="checkbox"/> NO LED INSERTS: <input type="checkbox"/> YES <input type="checkbox"/> NO LONG RANGE: <input type="checkbox"/> SHORT RANGE: <input type="checkbox"/>																																
F	LIGHT SPECS.	<table border="0"> <tr> <td>REAR</td><td>FRONT</td><td>REAR</td><td>FRONT</td><td>REAR</td><td>FRONT</td><td>REAR</td><td>FRONT</td></tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table> <p>G = Green Y = Yellow R = Red L = Lunar</p> <p>TRACK: _____ TRACK: _____ TRACK: _____ TRACK: _____</p>	REAR	FRONT	REAR	FRONT	REAR	FRONT	REAR	FRONT																								
REAR	FRONT	REAR	FRONT	REAR	FRONT	REAR	FRONT																											
G	LADDER	16" WIDE LADDER <input type="checkbox"/> STRAIGHT <input type="checkbox"/> SLOPED																																
H	TOE GUARDS	<input type="checkbox"/> YES <input type="checkbox"/> NO																																
I	SAFETY DEVICE	<input type="checkbox"/> SURE CLIMB SAFETY CABLE SYSTEM <input type="checkbox"/> LADDER CAGE																																
J	WIRING HARNESS	<i>Please provide wiring sketch</i> <input type="checkbox"/> #10 TC BLUE OKONITE <input type="checkbox"/> #10 BLACK BRAIDED <input type="checkbox"/> 5C#10 OKONITE																																
K	FOUNDATION 4-POST	<input type="checkbox"/> PRECAST CONCRETE <input type="checkbox"/> LEAVE IN PLACE FORM <input type="checkbox"/> 5 FT. <input type="checkbox"/> 7 FT.																																
L	FLOOR GRATING	<input type="checkbox"/> SERRATED <input type="checkbox"/> ABRASIVE																																



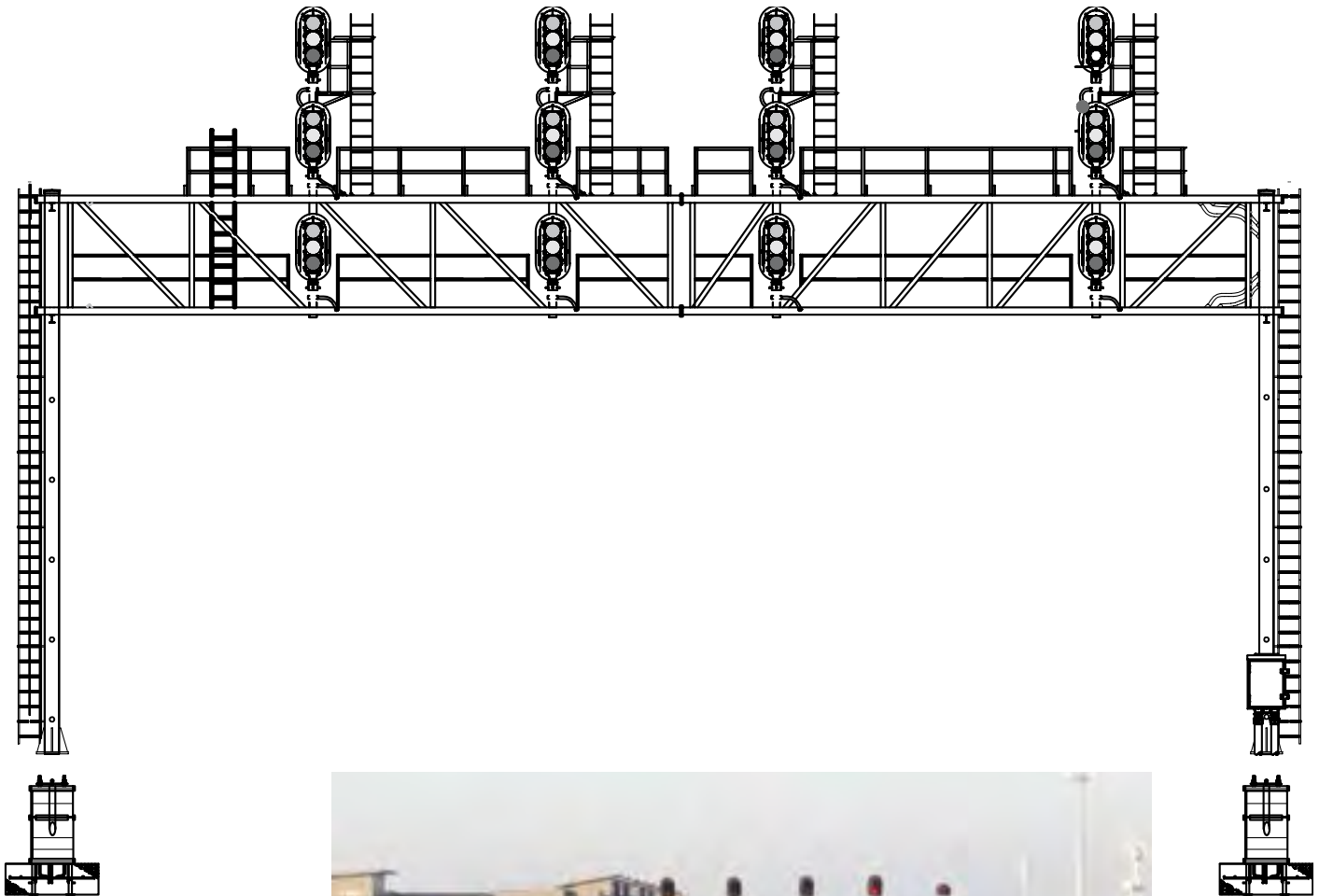
WAYSIDE SIGNAL BRIDGE

Progress Rail designs and manufactures Wayside Bridges.

These structures have a 10" Dia. Double mast at each end, and offer most of the same features as our 4-post wayside signal cantilevers. They are designed to meet or exceed AAR specifications and are constructed of 6061-T6 aluminum.

Special features include: 16" wide ladder with Sure Climb Safety Cable or ladder cage. Lights mounted inside of arm for safer maintenance.

Special platform for accessing 3rd tier light heads and easy 16-U-bolts to mount the arm to the mast.

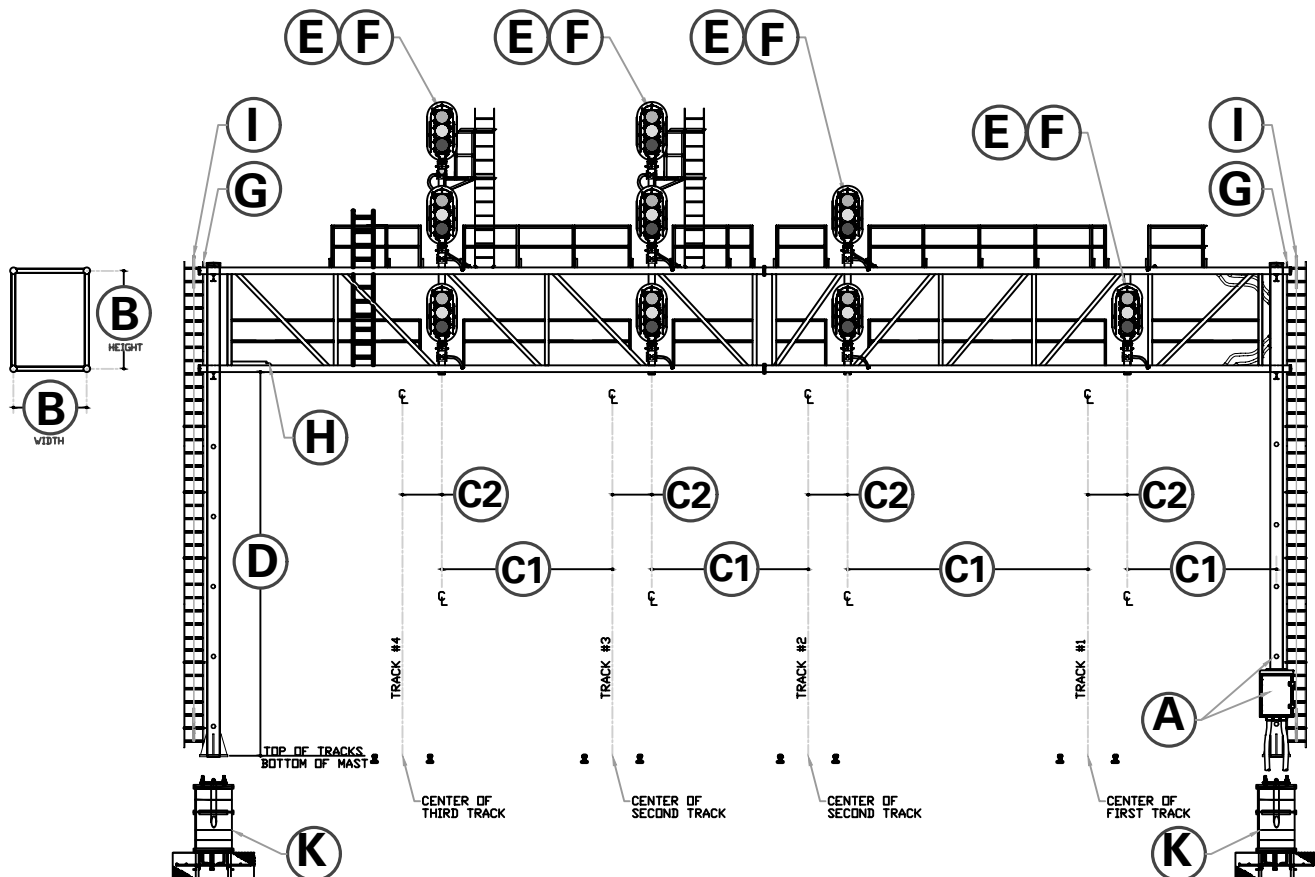


WAYSIDE SIGNAL BRIDGE

19

A	MAST	TRACKSIDE: <input type="checkbox"/> RH <input type="checkbox"/> LH JUNCTION BOX: <input type="checkbox"/> 20" H X 20" W X 7" D (WITH TWO 4" ALUM. BOTTOM COUPLINGS) <input type="checkbox"/> 39 3/4" H X 28 1/2" W X 14" D (WITH THREE 4" ALUM. BOTTOM COUPLINGS) ERICO GROUND WIRE: <input type="checkbox"/> 6'-0" <input type="checkbox"/> 8'-0" <input type="checkbox"/> NONE
B	ARM SIZE	<input type="checkbox"/> 6'-0" H X 4'-0" W <input type="checkbox"/> 7'-0" H X 4'-0" W
C1	TRACK SPACING	<i>Customer to specify track spacing</i> Center Of Mast Leg Closest To Track To Center Of First Track _____ FT. _____ IN. Center Of First Track To Center Of Second Track _____ FT. _____ IN. Center Of Second Track To Center Of Third Track _____ FT. _____ IN. Center Of Third Track To Center Of Forth Track _____ FT. _____ IN. Center Of Forth Track To Center Of Mast _____ FT. _____ IN.
C2	TRACK OFF SET	<input type="checkbox"/> 28" RIGHT OF RAIL <input type="checkbox"/> 40" RIGHT OF RAIL <input type="checkbox"/> NO OFFSET
D	CLEARANCE HEIGHT	CLEARANCE HEIGHT OF ARM <input type="checkbox"/> 27'-6" <input type="checkbox"/> 27'-11 3/4" <input type="checkbox"/> OTHER: _____ FT. _____ IN. <input type="checkbox"/> 28'-0"
E	SIGNAL SPECS.	<input type="checkbox"/> PROGRESS RAIL HEAD <input type="checkbox"/> Others: _____ <input type="checkbox"/> ALUMINUM BACKGROUND <input type="checkbox"/> STEEL BACKGROUND VISORS: <input type="checkbox"/> YES <input type="checkbox"/> NO VISORS ONLY ON: _____ SNOW SHIELD: <input type="checkbox"/> YES <input type="checkbox"/> NO LED INSERTS: <input type="checkbox"/> YES <input type="checkbox"/> NO LONG RANGE: <input type="checkbox"/> SHORT RANGE: <input type="checkbox"/>

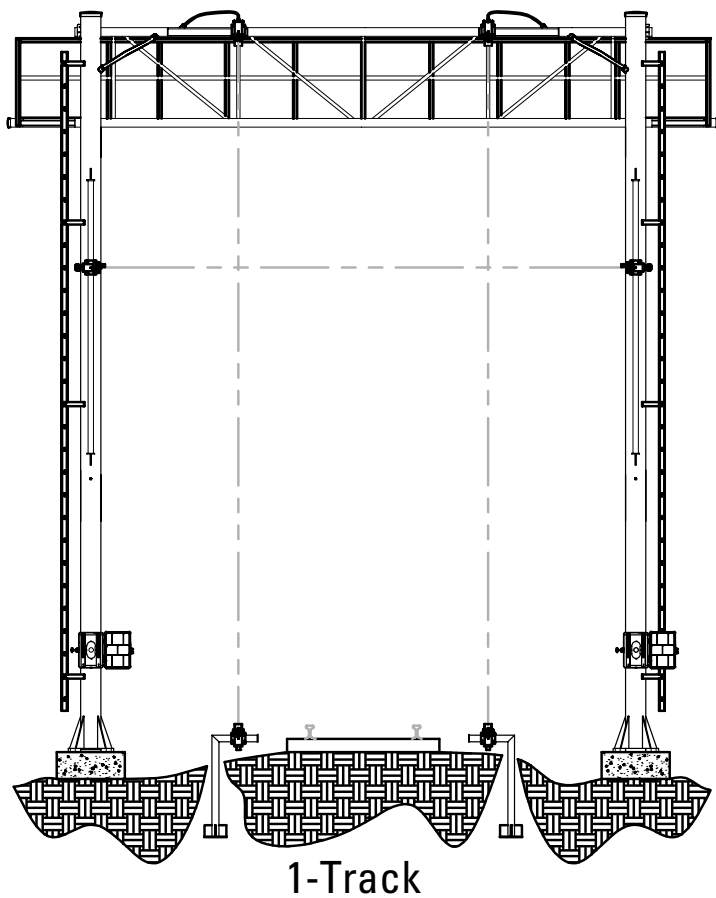
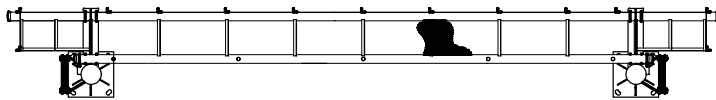
F	LIGHT SPECS.	REAR FRONT REAR FRONT REAR FRONT REAR FRONT TRACK: _____ TRACK: _____ TRACK: _____ TRACK: _____
G	LADDER	16" WIDE LADDER <input type="checkbox"/> STRAIGHT <input type="checkbox"/> SLOPED
H	TOE GUARDS	<input type="checkbox"/> YES <input type="checkbox"/> NO
I	SAFETY DEVICE	<input type="checkbox"/> SURE CLIMB SAFETY CABLE SYSTEM <input type="checkbox"/> LADDER CAGE
J	WIRING HARNESS	<i>Please provide wiring sketch</i> <input type="checkbox"/> #10 TC BLUE OKONITE <input type="checkbox"/> #10 BLACK BRAIDED Not Shown On Drawing <input type="checkbox"/> 5CH10 OKONITE
K	FOUNDATION 2-POST	<input type="checkbox"/> PRECAST CONCRETE <input type="checkbox"/> LEAVE IN PLACE FORM <input type="checkbox"/> 5 FT. <input type="checkbox"/> 7 FT.
L	FLOOR GRATING	<input type="checkbox"/> SERRATED <input type="checkbox"/> ABRASIVE



DETECTOR BRIDGE

Progress Rail designs and manufactures High-Wide Load Detector bridge. These units are designed to customer specifications for indicating if a locomotive's load is too high or too wide for upcoming bridges or tunnels. These structures can be designed to protect single or multiple tracks.

Key features of these units: service ladder on both ends of the Bridge, attached outriggers units for low wide sensors (as opposed to in-the-ground sensors) and sensor mounting pipes which allow for a high degree of customization and adjustments. These structure are designed to allow easy and periodic sensor replacement.



WAYSIDE SIGNAL MAST LADDER AND PLATFORM ASSEMBLY

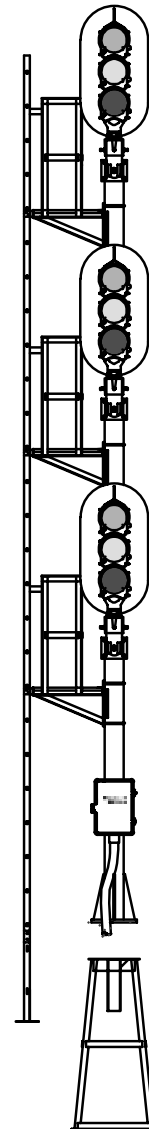
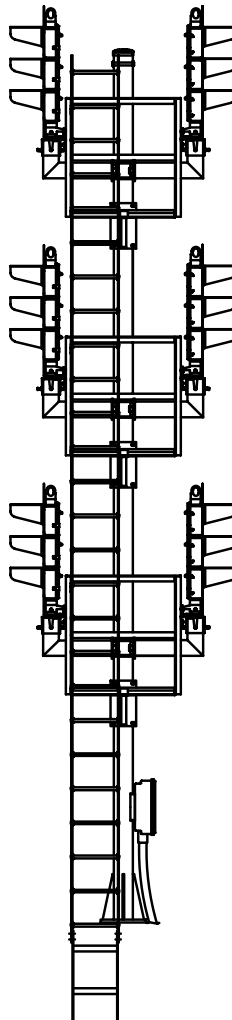
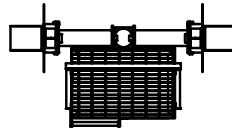
20

Progress Rail designs and manufactures Mast, Ladder and Platform (MLP) assemblies.

The MLP can allow for one, two, or three head designs and can accept up to six signals in total.

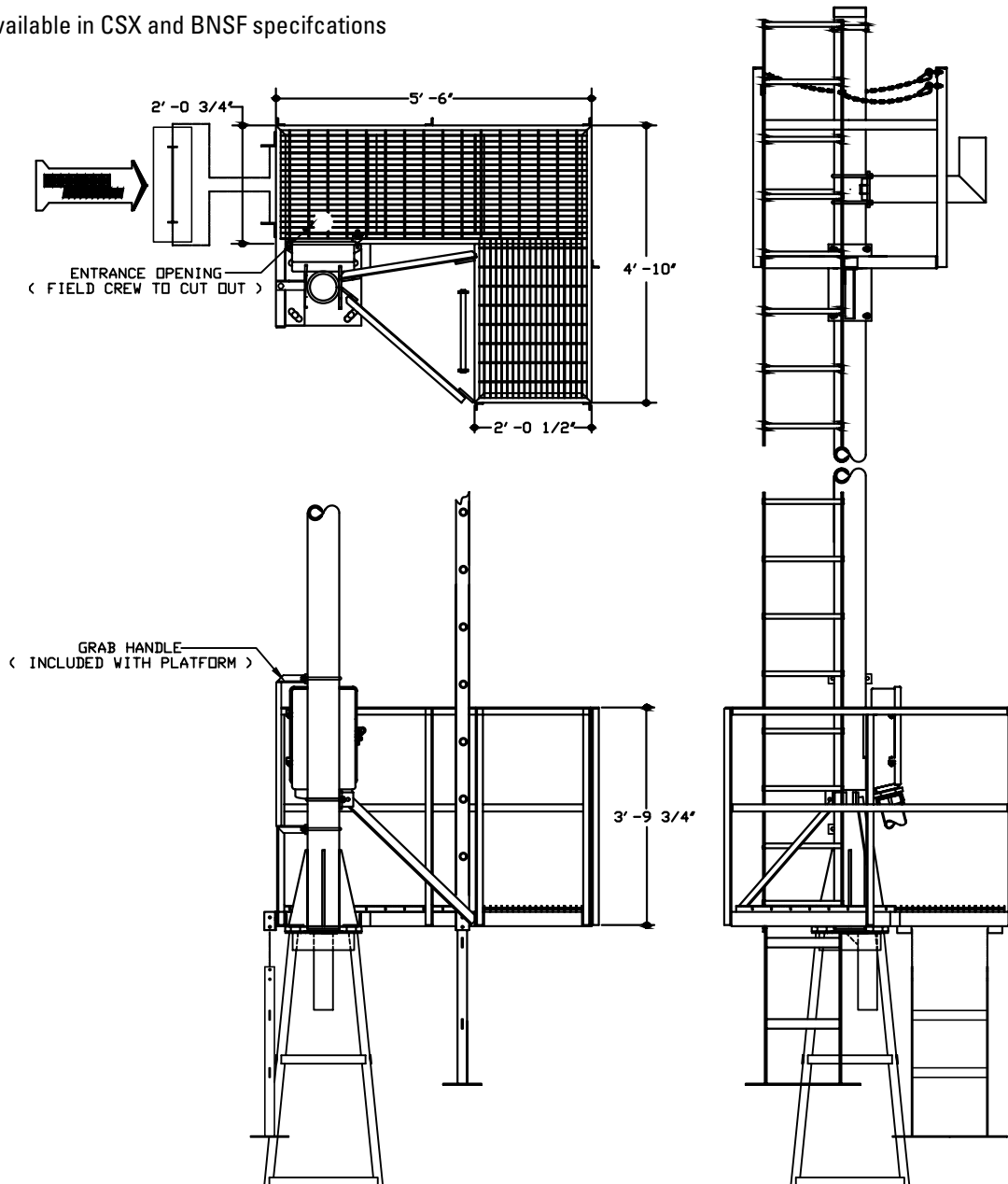
Features:

- » Easy access platforms
- » Non-slip walkway construction
- » All aluminum construction
- » Large 12" x 20" junction box
- » Close clearance designs available
- » 16" wide custom ladder assembly with no-slip rungs
- » Available in BNSF, CSX and UP specifications



GENERIC MLP GROUND ACCESS PLATFORM

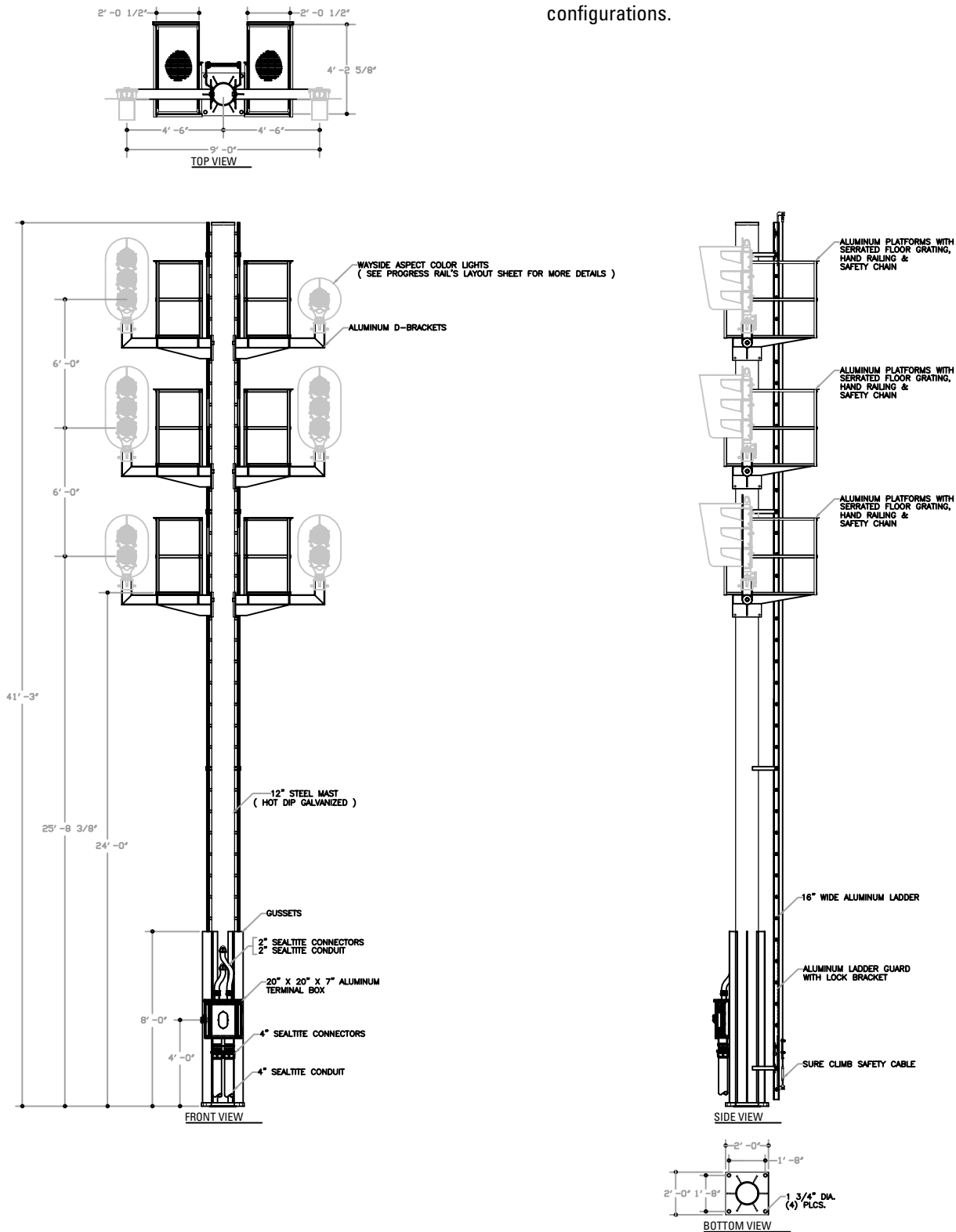
- » Provides a stable platform to provide maintenance on MLPs
- » Excellent for steep grade slopes
- » All aluminum construction
- » Sturdy hand rail on three sides
- » Large platform space
- » Aluminum serrated floor grating
- » Available in CSX and BNSF specifications



THREE TIER BRACKET MAST

22

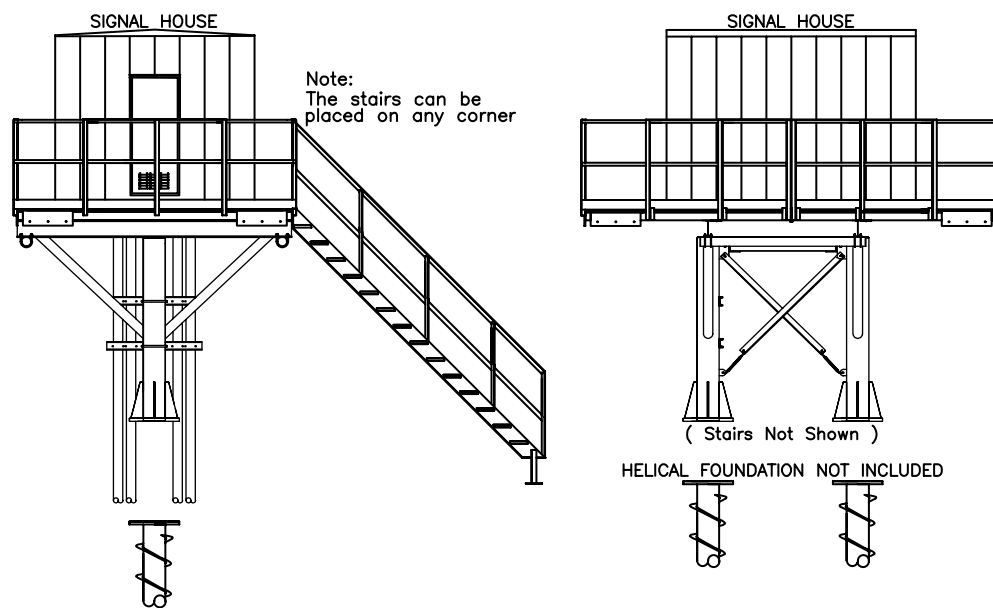
Bracket masts are available in one, two, and three tier configurations.



FLOOD PLATFORM



- » Different style and sizes per application
- » Heavy duty aluminum / steel construction
- » Serrated floor grating
- » Sturdy hand rail on all sides
- » Gradual sloping stairs for easy access
- » OSHA approved stairs



Two Post Mast Design



Four Post Mast Design

SIGNAL CONTROL HOUSE WIRING

24

- » Progress Rail designs and builds a wide array of signal houses.
- » We have robust experience in Class 1, Transit, Shortline, and Industrial applications
- » Experience wiring houses ranging from small signal cases to 50' long transit houses
- » All houses go through acceptance testing prior to shipping which can include full operational testing
- » We can also provide containerized field kits for ease of installation
- » Our wire shops are ISO 9001 certified.



SIGNAL CONTROL HOUSE WIRING



PROGRESS RAIL SERVICES SALES ORDER TERMS AND CONDITIONS

1. **ACCEPTANCE.** These terms and conditions apply to all sales by Progress Rail Services Corporation or one of its affiliates stated in any related sales order or invoice ("Seller") issued or approved by such Seller. This is an offer to sell to Buyer by Seller. Seller may revoke this offer at any point up to, and including, acceptance of the goods or services by Buyer. BUYER'S RIGHT TO ACCEPT THIS OFFER IS LIMITED TO THESE TERMS AND CONDITIONS AND ANY PRINTED OR SELLER'S SALES ORDER OR INVOICE. NO TERMS OR CONDITIONS ISSUED BY BUYER ARE BINDING ON SELLER AND SELLER REJECTS ANY SUCH TERMS OR CONDITIONS, UNLESS SPECIFICALLY AGREED TO IN WRITING AND SIGNED BY SELLER. THERE ARE NO UNDERSTANDINGS, TERMS, CONDITIONS OR WARRANTIES NOT FULLY EXPRESSED HEREIN. ACCEPTANCE OF THESE TERMS SHALL BE EVIDENCED BY BUYER'S ACCEPTANCE OF GOODS OR SERVICES OR UPON BEGINNING OF PERFORMANCE BY SELLER.

2. **PURCHASE PRICE.** The purchase price of the goods or services shall be as stated on Seller's sales order or invoice (together with these terms and conditions, the "Agreement"); provided however, that if Seller announces a general price increase, the purchase price shall be revised to include the price increase unless the goods are scheduled for shipment or services are to be performed within thirty days of the price increase.

3. **LIMITED WARRANTIES.** Seller warrants that the goods and services sold to Buyer through this Agreement will comply with agreed upon specifications when performed. Seller warrants only its services and does not warrant any goods supplied in performance of the services. However, Seller may assign to Buyer, at Buyer's request and to the extent they are assignable, warranties applicable to goods or services provided by third parties and supplied by Seller in performance of the services. The warranties in this Agreement are void and shall not apply if in the reasonable judgment of Seller, items on which services have been performed or goods supplied in performance of the services, have been damaged by improper application, abuse or neglect, improper maintenance or repair, subjected to inappropriate environmental or operational conditions or services by third parties without prior written authorization from Seller. SELLER MAKES NO OTHER WARRANTIES, AND EXPRESSLY DISCLAIMS ALL OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF INFRINGEMENT, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY WARRANTY RELATED TO PERFORMANCE OR TO THE SUITABILITY OF BUYER FURNISHED DESIGNS, MODIFICATIONS OR SPECIFICATIONS.

4. **LIMITATION OF BUYER'S REMEDIES AND SELLER'S LIABILITY.** Seller's liability hereunder shall be limited to: (1) the assignable warranties referenced above with respect to goods; (2) re-performance of services; or (3) allowance of a credit, at its option. Seller's total cumulative liability in any way arising from or pertaining to any goods sold or required to be sold, or services performed or required to be performed shall NOT in any case exceed the purchase price paid by Buyer for such goods or services. TO THE FULLEST EXTENT ALLOWED BY LAW, IN NO EVENT SHALL SELLER HAVE ANY LIABILITY FOR COMMERCIAL LOSS, LOST PROFITS, CLAIMS FOR LABOR, OR FOR EXEMPLARY, INDIRECT, CONSEQUENTIAL OR INCIDENTAL DAMAGES OF ANY TYPE, WHETHER THE CLAIM BE BASED IN CONTRACT, TORT, WARRANTY, STRICT LIABILITY, NEGLIGENCE, OR OTHERWISE, AND IRRESPECTIVE IF SELLER WAS ADVISED OR AWARE THAT SUCH DAMAGES WERE POSSIBLE OR LIKELY. IT IS EXPRESSLY AGREED THAT Effective as of July 1, 2014, BUYER'S REMEDIES EXPRESSED IN THIS PARAGRAPH ARE BUYER'S SOLE AND EXCLUSIVE REMEDIES. NO DELIVERY DATES ARE GUARANTEED. BUYER'S SOLE AND EXCLUSIVE REMEDIES AND SELLER'S ONLY LIABILITY FOR ANY DELAY IN DELIVERY OF GOODS OR SERVICES SHALL BE LIMITED AS SET FORTH HEREIN. THE PROVISIONS OF THIS PARAGRAPH SHALL SURVIVE THE ACCEPTANCE OF THE GOODS OR SERVICES SOLD HEREBY OR THE TERMINATION OF THIS AGREEMENT FOR ANY REASON.

5. **FORCE ABJURE.** In addition to all other limitations stated herein, Seller shall be excused for any failure or delay in the performance of any of its obligations under this Agreement if such failure or delay is due to a strike, lockout, work stoppage, labor dispute, material shortage, utility outage, delay in transportation, fire, flood, earthquake, severe weather, act of God, accident, trade sanction, embargo, act of war, terrorism or threats of same; condition caused by national emergency, new or changed law; failure of suppliers to deliver or meet requirements; casualties or breakdown of or damage to plants, equipment, or facilities of Seller, any component manufacturer, repair facility, or their respective suppliers; breakdown in transportation services; any other act or cause which is unpredictable and cannot be reasonably avoided; and any act or cause which is beyond the reasonable control of Seller, whether similar to or different from the causes above enumerated, and whether affecting Seller or its agents, subcontractors, or suppliers, for as long as such circumstances prevail. Seller will undertake, as soon as practicable, to notify Buyer of any actual or anticipated failure or delay, and Buyer will use its commercially reasonable efforts to mitigate any force abjure event and its consequences on performance hereunder. The parties shall remain liable for those obligations under this Agreement not affected by the force abjure event; provided however, that in the case of a U.S. sanction, embargo, or other trade order or rule that would prohibit or otherwise render Seller's performance under this Agreement impracticable, Seller shall be excused from the performance of any remaining obligations under this Agreement and this Agreement terminated, without cost or liability, upon written notice by Seller.

6. **BUYER'S OBLIGATION TO PASS ON LIMITATION OF WARRANTIES AND REMEDIES.** In order to protect Seller against claims by any purchaser from Buyer, if Buyer resells any of the goods or services purchased under this Agreement, Buyer shall include the language contained in paragraphs 3 and 4 of these Sales Order Terms and Conditions, dealing with Seller's warranties and limitations of warranties and remedies, in an enforceable agreement with Buyer's buyer. Buyer shall also include a provision in its agreement with its buyer applying Alabama law to any claims its buyer might assert against Seller with respect to goods or services provided by Seller, and requiring its buyer to bring any such action against Seller either in the state or federal courts serving Marshall County, in Alabama. Buyer shall defend, indemnify and hold Seller harmless from any and all claims, causes of action, damages, losses or expenses (including reasonable attorneys' fees) that Seller incurs by reason of Buyer's failure to comply with this paragraph. The provisions of this paragraph shall survive the acceptance of the goods or services sold hereby or the termination of this Agreement for any reason.

7. **SHIPMENT/PASSAGE OF TITLE.** be shipped FCA Seller's facility (Incoterms® 2010). Title to the goods sold hereunder shall pass to Buyer upon delivery to the carrier at the point of shipment. Without Seller's prior, written permission, neither Buyer nor Buyer's consignee shall have the right bill of lading. Seller reserves the right to select the mode of transportation, to divert or reconsign such shipment to any destination other than specified in the

8. **PAYMENTS AND LATE CHARGES ON PAST DUE ACCOUNTS.** If Buyer fails to comply with any provision of the Agreement or fails to make payments pursuant to the Agreement or any other agreement between Buyer and Seller, Seller may at its option defer shipments or performance or, without waiving any other rights it may have, terminate this Agreement without liability. All offers shall be subject to the approval of Seller's credit department. Seller reserves the right before making any delivery, or providing any service, to require payment in cash or security for payment, and if Buyer fails to comply with such requirement, Seller may terminate this Agreement. A late charge of 1½% monthly (18% annual rate) or the maximum allowed by state law, if less, will be imposed on all past due accounts.

9. **CLAIMS BY BUYER.** Buyer shall thoroughly inspect goods and services sold under this Agreement immediately upon receipt to verify that the such goods and services conform to the specifications of the Agreement. Buyer must notify Seller of claims for failure or delay in delivery within ten (10) days after the scheduled delivery date. Buyer must notify Seller of any claims for nonconforming or defective goods or services within ten (10) days after receipt or any claim related to such goods or services shall be waived. In addition, Seller must be given an opportunity to investigate the claim before Buyer disposes of the goods or else Buyer's claim will be barred. Seller shall incur no liability for damage, shortages, or other cause alleged to have occurred or existed at or prior to delivery to the carrier unless Buyer shall have entered full details thereof on its receipt to the carrier.

10. **PERMISSIBLE VARIATIONS.** The goods sold hereunder shall be subject to standard manufacturing variations, tolerances and classifications of the Seller and in the industry.

11. **TECHNICAL ADVICE.** Buyer represents that it has made its own independent determination that the goods or services it is purchasing under this Agreement meet all design and specification requirements of Buyer's project and are suitable for Buyer's intended application. Buyer further represents that it has not relied in any respect on any written or oral statements or advice from Seller.

12. **TAXES.** No tax imposed in respect of the sale of the goods or services sold hereunder is included. Any such tax shall be added to, and paid by Buyer as part of, the purchase price.

13. **INDEMNITY.** To the fullest extent allowable by law, Buyer shall defend, indemnify and hold harmless the Seller and its officers, directors, employees, agents, representatives and affiliates from any and all loss, liability, claim, cause of action, cost, judgment, or damages, including reasonable attorney fees for any personal injury, death, property damage, or economic loss of any sort related to any act or omission of the Buyer or use or abuse of the goods by the Buyer or any third party receiving, using or abusing the goods after Buyer's receipt, without regard to whether any loss is based upon breach of contract, breach of warranty, negligence, strict liability, or other tort or contract theory or cause of action.

14. **WAIVER.** Failure or inability of either party to enforce any right hereunder shall not waive any right in respect to any other or future rights or occurrences.

15. **PERIOD OF LIMITATIONS.** Buyer and Seller agree that any action by Buyer against Seller for breach of this Agreement, including any action for breach of warranty, or otherwise in connection with the goods or services sold under this Agreement, must be commenced by Buyer against Seller within one year after the cause of action accrues.

16. **SERVICEABILITY.** In case any provision of this Agreement shall be declared invalid, illegal or unenforceable, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired.

17. **APPLICABLE LAW.** The United Nations Convention on Contracts for the International Sale of Goods (1980) shall not apply to this Agreement. This Agreement shall be governed by, and construed and enforced in accordance with, the laws of the State of Alabama. Buyer and Seller, each as part of the consideration hereof, agree to the exclusive venue and jurisdiction of, and specifically agree that any legal action brought relating to this Agreement or goods or services provided will be brought and tried exclusively in the state or federal courts serving Marshall County, Alabama.

18. **COMPLIANCE WITH LAWS.** Buyer understands and agrees that goods and services sold by Seller, and any software, parts and components contained therein, along with any related manuals, materials, information or data, including but not limited to any parts, support or services provided by Seller (collectively, the "Product and Services"), as well as performance by the parties under this Agreement, are subject to laws, rules, regulations, directives, ordinances, orders, or statutes (the "Laws") of the United States and may be subject to the Laws of other, applicable countries (including, without limitation, Russia). Buyer agrees to comply with such Laws, as applicable, which may include but are not limited to, the U.S. Foreign Corrupt Practices Act, UK Bribery Act, anti-bribery Laws of other countries, U.S. Export Administration Regulations, U.S. International Traffic in Arms Regulations, and Laws administered by the U.S. Treasury Department Office of Foreign Assets Control and U.S. Department of State. Buyer agrees to cooperate with Seller to ensure compliance with the Laws when engaging in activities related to Buyer's performance of obligations under this Agreement and further agrees to indemnify, defend, and hold harmless Buyer, Buyer's direct and indirect parent entities and affiliates, and its and their respective directors, officers, employees, agents, successors, and assigns, against demands, liabilities, fines, penalties, losses, and damages (including costs, investigation and litigation expenses and counsel fees incurred in connection therewith) arising out of or related to Buyer's obligations under this paragraph. In the event of an enforcement action against Buyer relating to Buyer's non-compliance with the Laws that reasonably relate to Buyer's performance under this Agreement, Buyer shall provide to Seller written notice of such enforcement action prior to publication or disclosure of such enforcement action, and in no event later than ten (10) business days following such enforcement action. Notwithstanding the foregoing, Buyer agrees not to export, reexport, transmit or otherwise transfer the goods or services, whether directly or indirectly: (i) to any person or entity listed or otherwise designated as a blocked, prohibited or trade restricted person or party by the U.S. Commerce Department, U.S. Treasury Department, or U.S. Department of State; (ii) for any purpose or use prohibited by the U.S. government, such as for nuclear, chemical, or biological weapons production or proliferation, or (iii) to any destination or transit point subject to trade prohibitions by the U.S. government, as may be amended from time to time, such as the prohibition against transactions or trade with Iran or the Government of Iran.

Progress Rail

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