



PIPING TECHNOLOGY & PRODUCTS, INC.

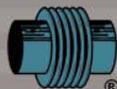
www.pipingtech.com



2nd Edition

Instrument Supports Catalog

Cable / Floor / U-Bolt / Wall Mounts & Secondary Supports



U.S. Bellows, Inc.



SWECO Fab. Inc.



Pipe Shields Inc.



Anchor/Darling
Enterprises, Inc.

Email: info@pipingtech.com | 24-Hour Hotline: +1-713-731-0030



ABOUT PIPING TECHNOLOGY & PRODUCTS

PT&P was incorporated in Texas in 1978. In 1986 we acquired Sweco Fab, Inc., an ASME Code pressure vessel shop to complement our product line. In 1988 the major manufacturing facilities of both companies moved to our present headquarters in Houston, Texas. PT&P acquired the metal expansion joint business of **RM Engineered Products, Inc.** of Ladson, SC in 1995. The machinery and technology acquired provided the capability to manufacture thin-wall metal bellows. In 1997 PT&P acquired **Ketema-U.S. Bellows** of San Diego, CA, another major manufacturer of metal bellows.

Today, **Piping Technology & Products, Inc.**, and its fully owned subsidiaries - **U.S. Bellows, Inc.**, **Sweco Fab, Inc.**, **Pipe Shields, Inc.**, and **Fronek Anchor/Darling Ent., Inc.** - are manufacturers of a wide range of products. The chart above shows the division of product lines between the five companies. Products manufactured by PT&P and its subsidiaries include:

- **Engineered pipe hangers and supports:** constant spring hangers, variable supports and big ton springs.
- **Expansion joints:** metallic expansion joints, thick wall (flanged and flued), thin wall bellows, furnace bags, rectangular, slip-type, fabric.
- **Pre-Insulated pipe supports:** hot shoes for high temperatures, cold shoes for cryogenic lines.
- **Pipe shoes, guides and anchors:** pipe shoes and stands, cylinder pipe guides, and anchors.
- **Shock and vibration controls:** hydraulic shock and sway suppressors, vibration controls and sway braces, and sway strut assemblies.
- **Support assembly components:** pipe hangers, clamps and risers, saddle supports and coverings, hardware, rods and u-bolts, hold-down clamps, beam attachments, and clevis hangers.
- **Slide plates:** PTFE, 25% glass filled, Bronzphite®, marinite, and graphite.
- **ASME/Misc. fabricated products:** ASME code pressure vessels, pig launchers and receivers, duct and transition pieces, spectacle and line blinds, bellmouth reducers, instrument stands, dampers/louvers, conical strainers, and API tanks.

Piping Technology & Products, Inc.

- **ENGINEERED PIPE SUPPORTS**
VARIABLE SPRINGS, CONSTANT SUPPORTS AND BIG TON SPRINGS
 VIBRATION CONTROL DEVICES: SNUBBERS AND SWAY STRUTS
 SUPPORT ASSEMBLY COMPONENTS: CLAMPS AND HARDWARE
 FABRICATED PIPE SHOES, GUIDES AND ANCHORS
- **PRE-INSULATED PIPE SUPPORTS**
FOR CRYOGENIC AND HIGH TEMPERATURE APPLICATIONS
- **SLIDE BEARING PLATES**
- **ANCHOR BOLTS AND EMBEDS**

ISO 9001:2008 CERTIFIED
MEMBER OF MSS, SPED, APFA

WIDE VARIETY OF HIGH-QUALITY ENGINEERED PRODUCTS FOR ALL YOUR ENGINEERING NEEDS

U.S. Bellows, Inc.

- STOCK BELLOWS
- THIN WALL: SINGLE, HINGED, GIMBAL, UNIVERSAL, ELBOW
- PRESSURE BALANCED, IN-LINE
- PRESSURE BALANCED, EXTERNALLY PRESSURIZED & TOROIDAL
- THICK WALL: FLANGED & FLUED
- FABRIC EXPANSION JOINTS
- RECTANGULAR EXPANSION JOINTS
- SLIP-TYPE EXPANSION JOINTS

MEMBER OF EJMA

SWECO Fab, Inc.

- PRESSURE VESSELS & TANKS
- PIG LAUNCHERS AND RECEIVERS
- SWEGEE PIGS & SCRAPERS
- SPECTACLE & LINE BLINDS
- CONICAL STRAINERS: LINE, TEE TYPE, PERFORATED PLATES, STANDARD DESIGN
- INSTRUMENT SUPPORTS
- ORIFICE PLATES & FLANGES
- DUCT & TRANSITION PIECES
- BELLMOUTH REDUCERS

ASME CERTIFICATE & U-STAMP HOLDER

Pipe Shields, Inc.

- INSULATED PIPE SUPPORTS
- COMMERCIAL & LIGHT INDUSTRIAL
- HEAVY INDUSTRIAL -
BASE MOUNTED TYPES
 PIPE ANCHORS
 PIPE HANGER TYPES
 PIPE RISER CLAMPS
 PIPE GUIDES

Fronek Anchor/Darling Enterprises, Inc.

- HYDRAULIC SNUBBERS
SHORT STRUT
 ADJUSTABLE STRUT
- MECHANICAL SNUBBERS
- DYN/DAMP COMPENSATING STRUT

ASME "NS" CERTIFICATE HOLDER



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* We continuously improve our products and designs. We may modify and/or alter some dimensions without prior notification to our customers.



FACILITIES

Piping Technology & Products and its fully owned subsidiaries share engineering and manufacturing resources at our 35-acre manufacturing facility in Houston, Texas. PT&P's manufacturing facilities are located near the Port of Houston, the largest port in the United States, for fast and convenient shipping around the world. We have 450,000 square feet of covered shop space at our manufacturing facility in Houston.

As our long-time customers know, after many years on Long Drive here in Houston, PT&P purchased 7.2 acres on Holmes Road in Houston, Texas in the summer of 1987. After upgrading the electrical systems, PT&P and Sweco Fab, Inc., PT&P's ASME code fabricated shop, relocated to this new facility. Since that time, PT&P has continued to expand and improve its work space at the Holmes Road facility:



PT&P extends an invitation to all its customers to come to Houston and visit the plant. This is the best way to see our people, our facilities, and the many capabilities we have to serve you.

3701 Holmes Rd.
Houston, TX 77051
713-731-0030

FIELD SERVICE

PT&P's Field Service Team is experienced in field survey & inspection, on-site installation & maintenance, problem resolution, and unit turnarounds. We are available 24 hours a day, 7 days a week, to provide on-site assistance for your pipe support and expansion joint systems.

On-Site Installation & Maintenance Guidance

With expertise in the installation and maintenance of various pipe support and expansion joint systems, PT&P's Field Service Team is readily available to provide the following services:

- Guidance in the installation, maintenance, removal, or repair of any pipe support or expansion joint system.
- On-site consultations / training sessions.
- Quick maintenance service during shutdowns / turnarounds.
- Mobile trailer for drag testing, lock-up velocity testing, and bleed rate testing of hydraulic snubbers.

24 x 7 Emergency Services

PT&P is available on a 24x7 basis to fulfill any emergency or quick-turn requirements. With a large inventory of stock components for pipe supports and expansion joints, PT&P can quickly assemble and ship products for any situation.

For a quick response, please complete the emergency service request form at Pipingtech.com/emergency.

Field Survey / Inspection

Due to unanticipated changes in the operating conditions of a piping system, periodic inspection and regular maintenance is necessary to prevent unforeseen shutdowns and to optimize production. During each inspection process, PT&P's Field Service Team can:

- Thoroughly inspect the pipe support/ expansion joint system.
- Perform design audits.
- Record digital images of existing problems.
- Provide a detailed written assessment for preliminary findings and recommendations.
- Perform stress analyses to verify design.
- Assist in drawing regeneration or updates.





FEATURED INSTRUMENT SUPPORTS PROJECTS



643 Instrument Stands Designed for an Oil Refinery

PT&P manufactured instrument stands from hot dipped galvanized carbon steel. The instrument stands are 52" in height and have varying widths from 1' to 4'. They will be used to support instruments in a new Coker unit that is part of an oil refinery in Illinois.



Instrument Stands Designed for a Heavy Oil Refinery

PT&P manufactured 55 instrument stands from carbon steel with a hot-dipped galvanize finish. They are 75" tall and 90" wide, and will support various instruments and junction boxes in a heavy oil refinery.



Over 8,000 Instrument Stands Designed for an LNG Facility

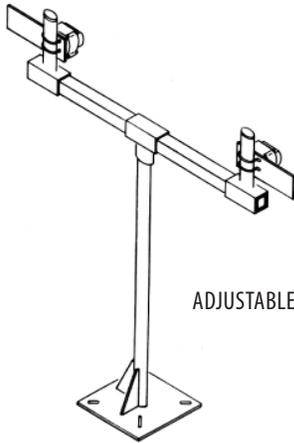
PT&P manufactured custom instrument stands designed to mount instrument panels in an LNG facility located in Australia. We are supplying 8,000 assemblies fabricated from carbon steel with a hot-dipped galvanized finish. The average size measures 68" in length, 22" in width and 82" in height. Total weight to be shipped is over 800,000 pounds. All assemblies underwent quality control inspection prior to shipment.



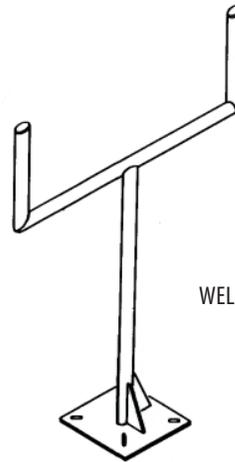
ADJUSTABLE INSTRUMENT SUPPORTS COMPONENTS

PT&P offers a complete line of adjustable instrument support components which, when combined, will create various configurations to your exact requirements or individual needs. We also provide welded instrument supports fabricated according to your specifications.

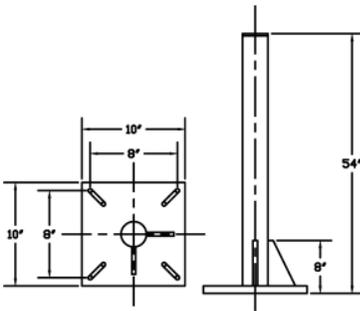
Primary support components are available in various mount styles, including floor mounts, wall mounts, u-bolt mounts, and cable mounts. These primary mounts can be used independently or together with secondary components to construct various packages for individual needs.



ADJUSTABLE INSTRUMENT SUPPORT

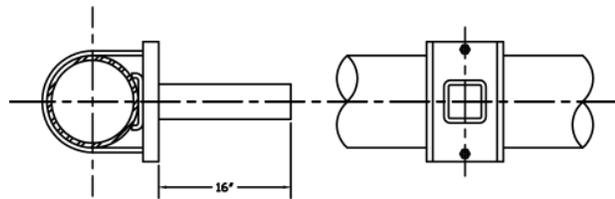


WELDED INSTRUMENT SUPPORT



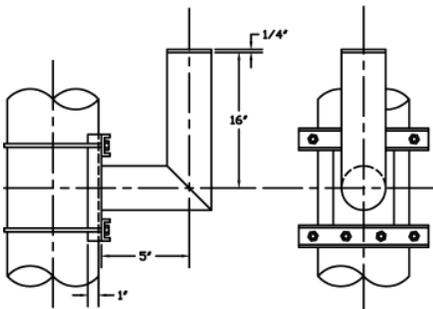
PTP-IS-600

Primary component has a 2" pipe extension 54" long, designed for grade mounting of instrument assemblies, comes with slotted hole in base.



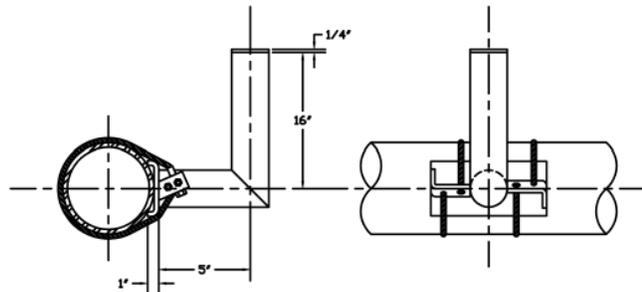
PTP-IS-610

Primary component has a 2" square extension 16" long, designed for mounting on vertical or horizontal lines.



PTP-IS-620

Primary component has a 2" pipe, at a right angle with a vertical leg, designed for mounting on vertical lines.



PTP-IS-630

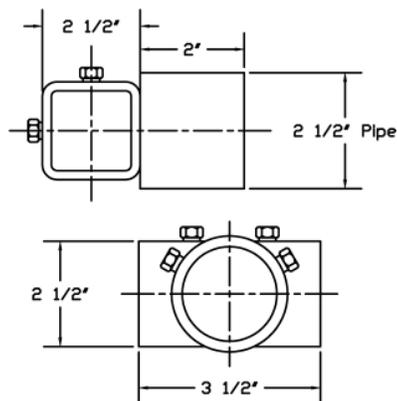
Primary component has a 2" pipe, at a right angle with a vertical leg, designed for mounting on horizontal lines.



ADJUSTABLE INSTRUMENT SUPPORTS COMPONENTS

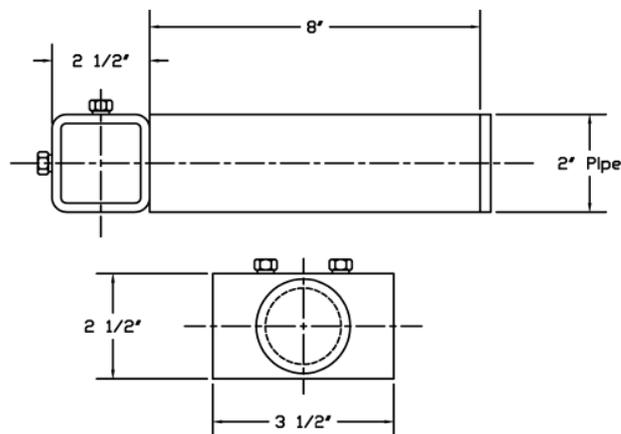
Note:

The extension lengths shown on primary components are standard, other lengths can be furnished on request.



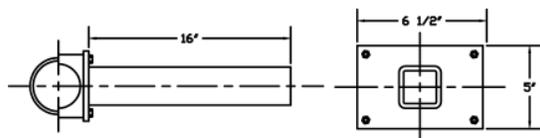
PTP-IS-640

Female adaptor with two 2" extension 2" long, provides female connection to 2" pipe components, used for constructing multiple instrument support systems.



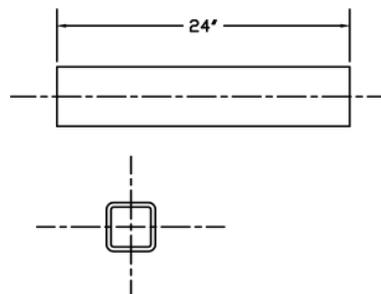
PTP-IS-650

Adaptor with 2" pipe extension 8" long.



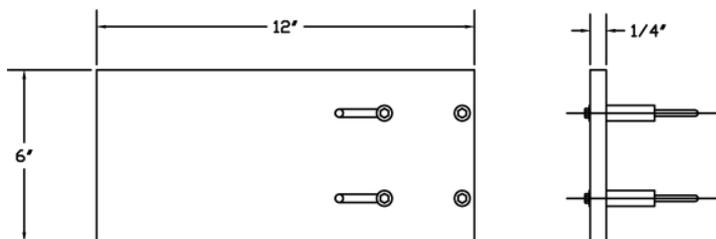
PTP-IS-660

2" square extension component, 16" long, with 2" u-bolt mount, for constructing various instrument support configurations.



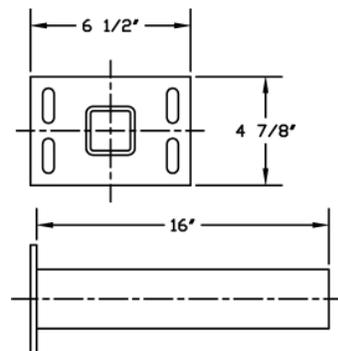
PTP-IS-670

2" square component, 24" long designed for use in constructing multiple support mounts and other applicable configurations as required.



PTP-IS-680

Secondary component, with 2" u-bolt mount, provides auxiliary equipment mount and/or flag for identification.



PTP-IS-690

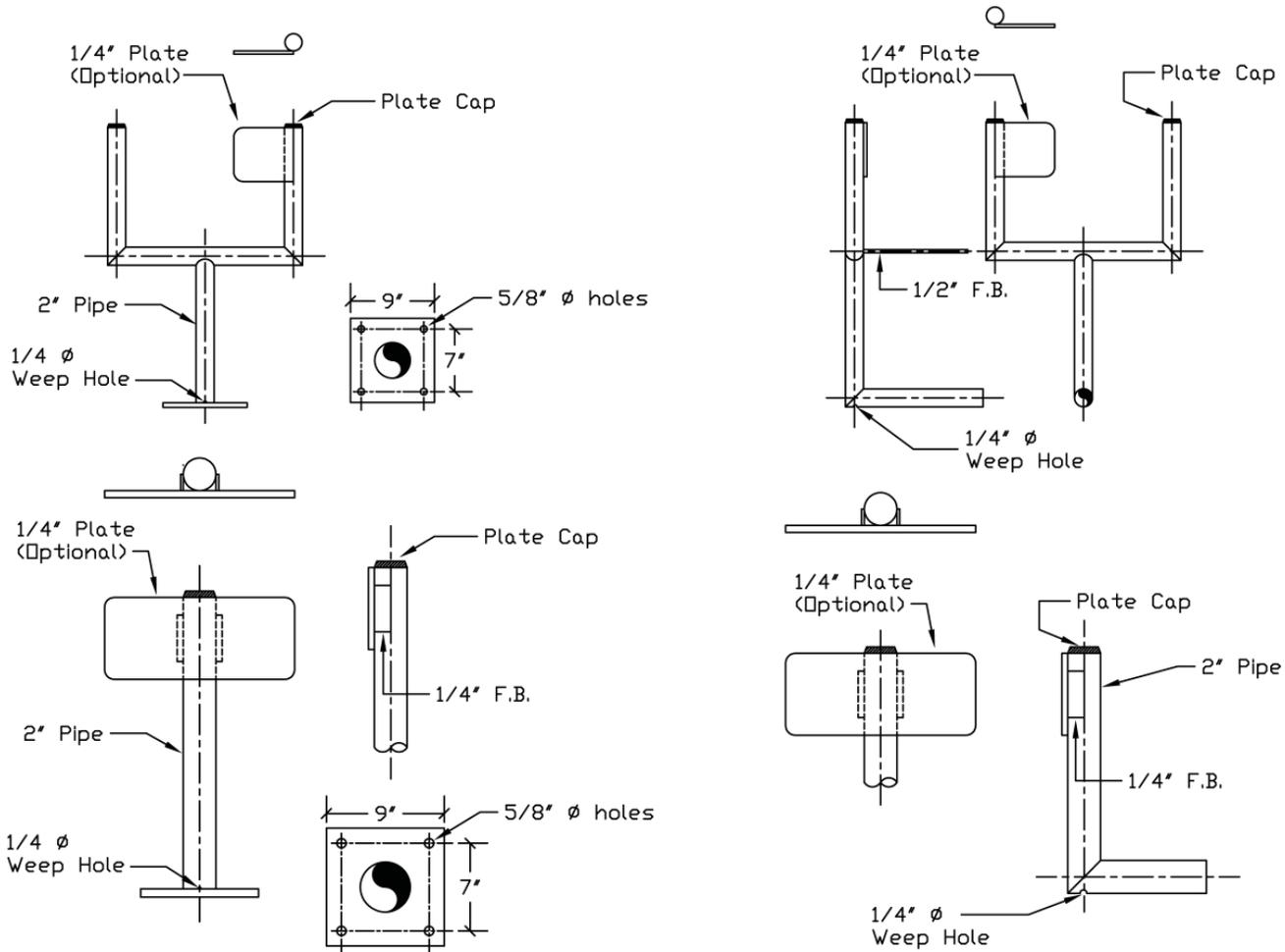
Primary component, 2" square extension 16" long, designed for mounting on walls and columns.



WELDED INSTRUMENT SUPPORTS

Welded instrument supports may be fabricated in any desired configuration according to customer's individual requirements and design specifications.

Examples of various welded instrument support configurations:



SELECTION CHART

	Cable Mounts	U-Bolt Mounts	Wall Mounts	Floor Mounts	Secondary Supports
Attachment:	Attached to instrument by cable.	Attached to piping instrumentation.	Welded or bolted to support.	Welded or bolted to support.	Attached to instrument; welded or clamped on stand.
Function:	Support and hold instrument at fixed location.	Hold instrument during plant operation.	Support instrumentation during operations.	Support instrumentation during operations.	Used in combination with primary supports to support instrumentation.
Location:	Where instrument is welded to structure	Bolted into concrete or welded to structure.	Bolted to walls and other vertical surfaces.	Bolted on the floor or in the ground.	Attached to primary instrument stands, usually floor or wall mounts.



FEATURED INSTRUMENT SUPPORTS PROJECTS



Structural Supports Designed for Instrument Panels in an LNG Facility

These structural supports were designed to mount instrument panels in a liquid natural gas facility in Australia. All 72 assemblies were fabricated from carbon steel with a hot-dipped galvanized finish. The dimensions are 68" x 82" x 10" and all assemblies underwent quality control inspection prior to shipment.



Custom Instrument Supports with a Hot-dipped Galvanized Finish

These custom instrument supports are fabricated from carbon steel with a hot dipped galvanize finish. The supports vary in heights up to 5" and widths from 18" to 24". A total of 126 stands will be used to support instruments at an oil refinery. PT&P offers a complete line of adjustable and welded instrument supports in various mounting styles.



282 Instrument Supports Designed for a Six-Drum Coker Unit

PT&P designed and manufactured 282 instrument supports to support a six-drum Coker unit in a refinery in Indiana. Some of the assemblies are designed to be bolted by anchor bolts while others are designed to be welded. The supports are fabricated from hot-dipped galvanized carbon steel and measure 11" – 61" in height and 5" – 28' in width.

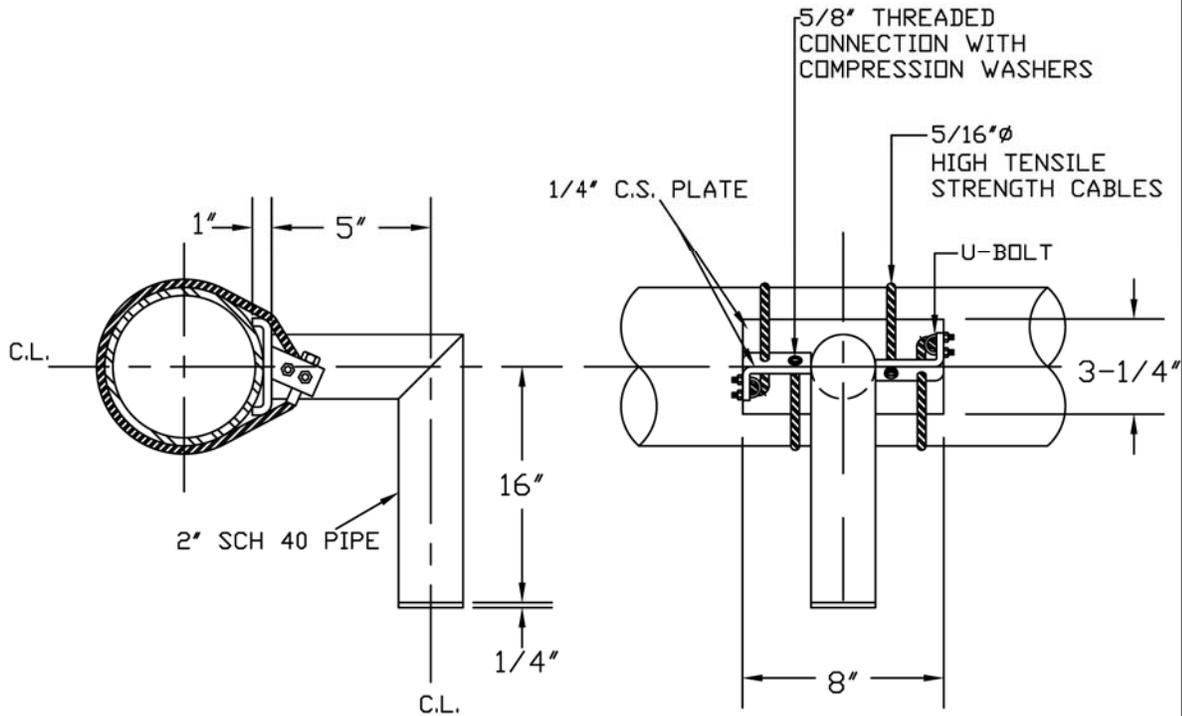


IS-630

3" - 14" Dia. Horizontal Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

Cable mount saddle with right angle extension 16 LG



Design, PTMP 9/17/1999 2:28 PM IS-01

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-630 (3"-14" DIA. HORZ. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, CABLE MOUNT SADDLE W/RIGHT
 ANGLE EXTENSION 16" LG, FOR 3"-14" DIA. PIPE,
 HORIZONTAL.

**PIPING TECHNOLOGY &
 PRODUCTS, INC.**

P.O. BOX 34506
 3701 HOLMES RD.
 TELE#:(713)731-0030
<http://www.pipingtech.com/>

HOUSTON TEXAS 77234
 HOUSTON TEXAS 77051
 FAX#:(713)731-8640
 E-MAIL: info@pipingtech.com



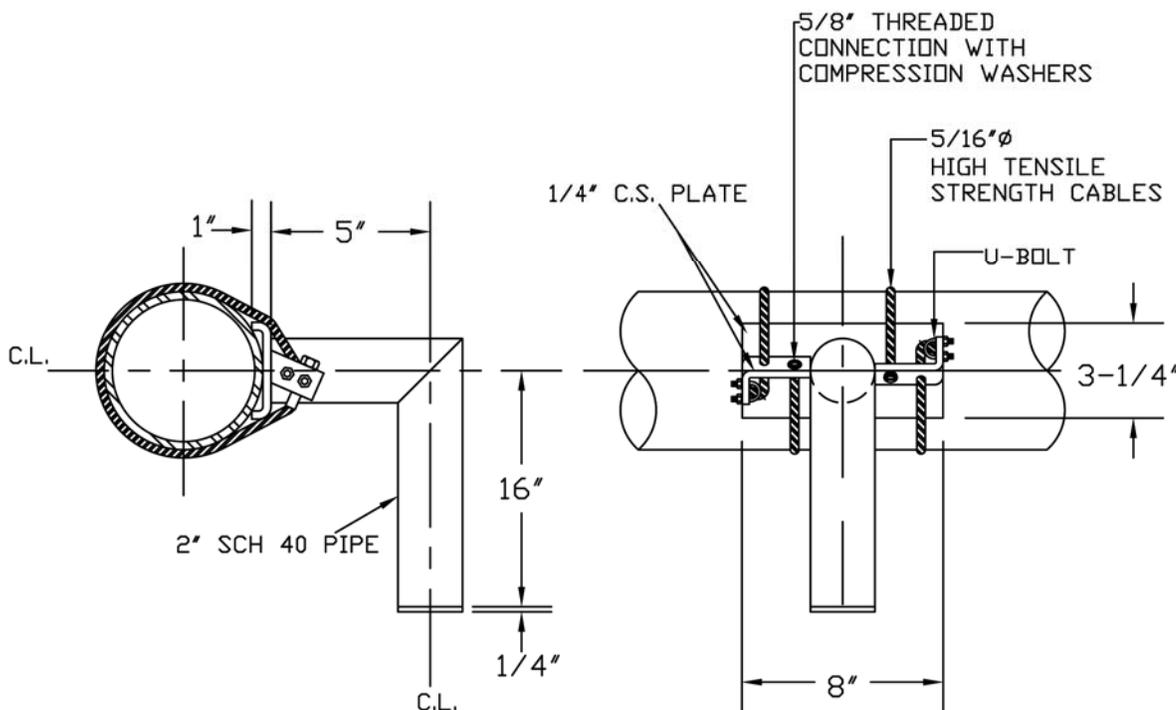


IS-630

16" - 36" Dia. Horizontal Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

Cable mount saddle with right angle extension 16 LG



Design, PT&P 9/17/1999 2:28 PM IS-01

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-630 (16"-36" DIA. HORZ. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, CABLE MOUNT SADDLE W/RIGHT
 ANGLE EXTENSION 16" LG, FOR 16"-36" DIA. PIPE,
 HORIZONTAL.

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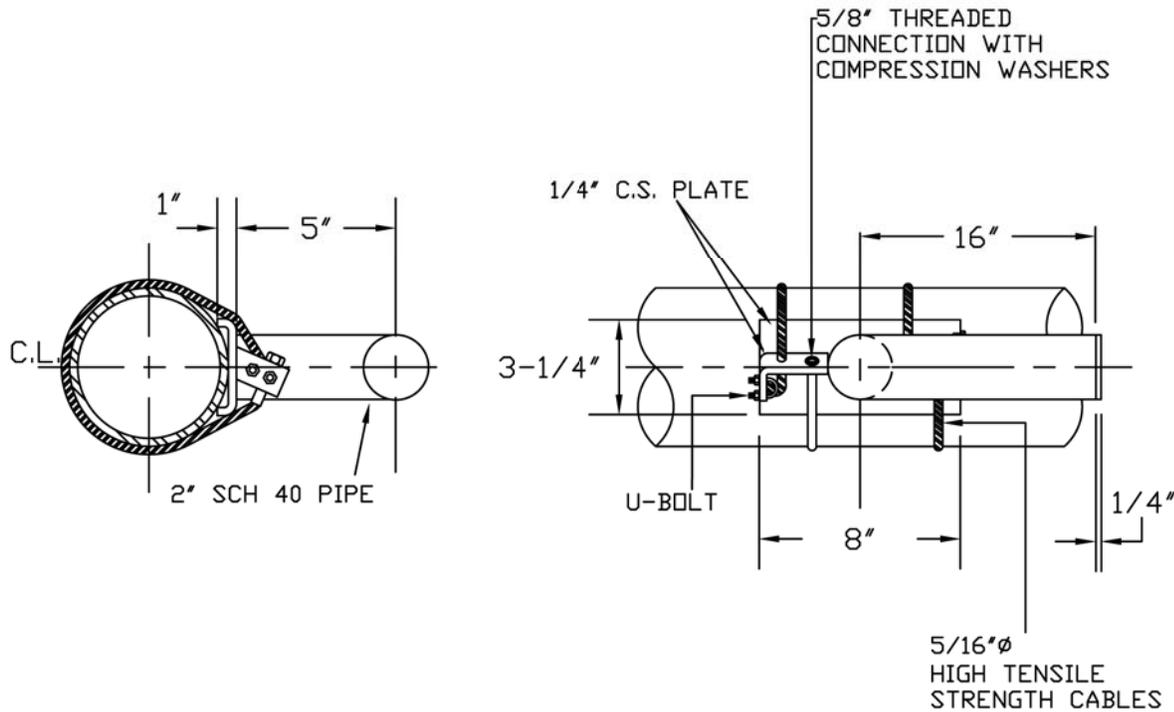


IS-620

3" - 14" Dia. Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

Cable mount saddle with right angle extension 16 LG



Design, PTMP 9/17/1999 3:08 PM IS-03

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-620 (3"-14" DIA. VERT. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, CABLE MOUNT SADDLE W/RIGHT
 ANGLE EXTENSION 16" LG, FOR 3"-14" DIA. PIPE,
 HORIZONTAL.

PTP PIPING TECHNOLOGY & PRODUCTS, INC.

P.O. BOX 34506 HOUSTON TEXAS 77234
 3701 HOLMES RD. HOUSTON TEXAS 77051
 TELE#:(713)731-0030 FAX#:(713)731-8640
<http://www.pipingtech.com/> E-MAIL: info@pipingtech.com



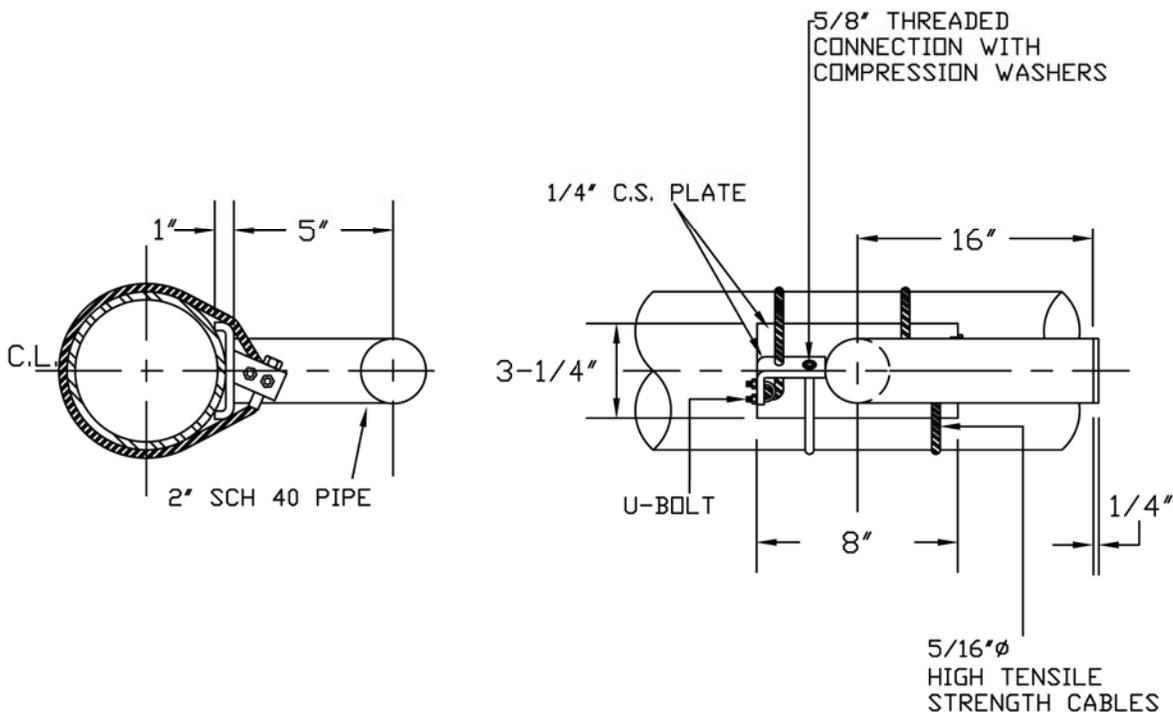


IS-620

16" - 36" Dia. Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

Cable mount saddle with right angle extension 16 LG



Design, PT&P 9/17/1999 3:08 PM IS-03

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-620 (16"-36" DIA. VERT. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, CABLE MOUNT SADDLE W/RIGHT
 ANGLE EXTENSION 16" LG, FOR 16"-36" DIA. PIPE,
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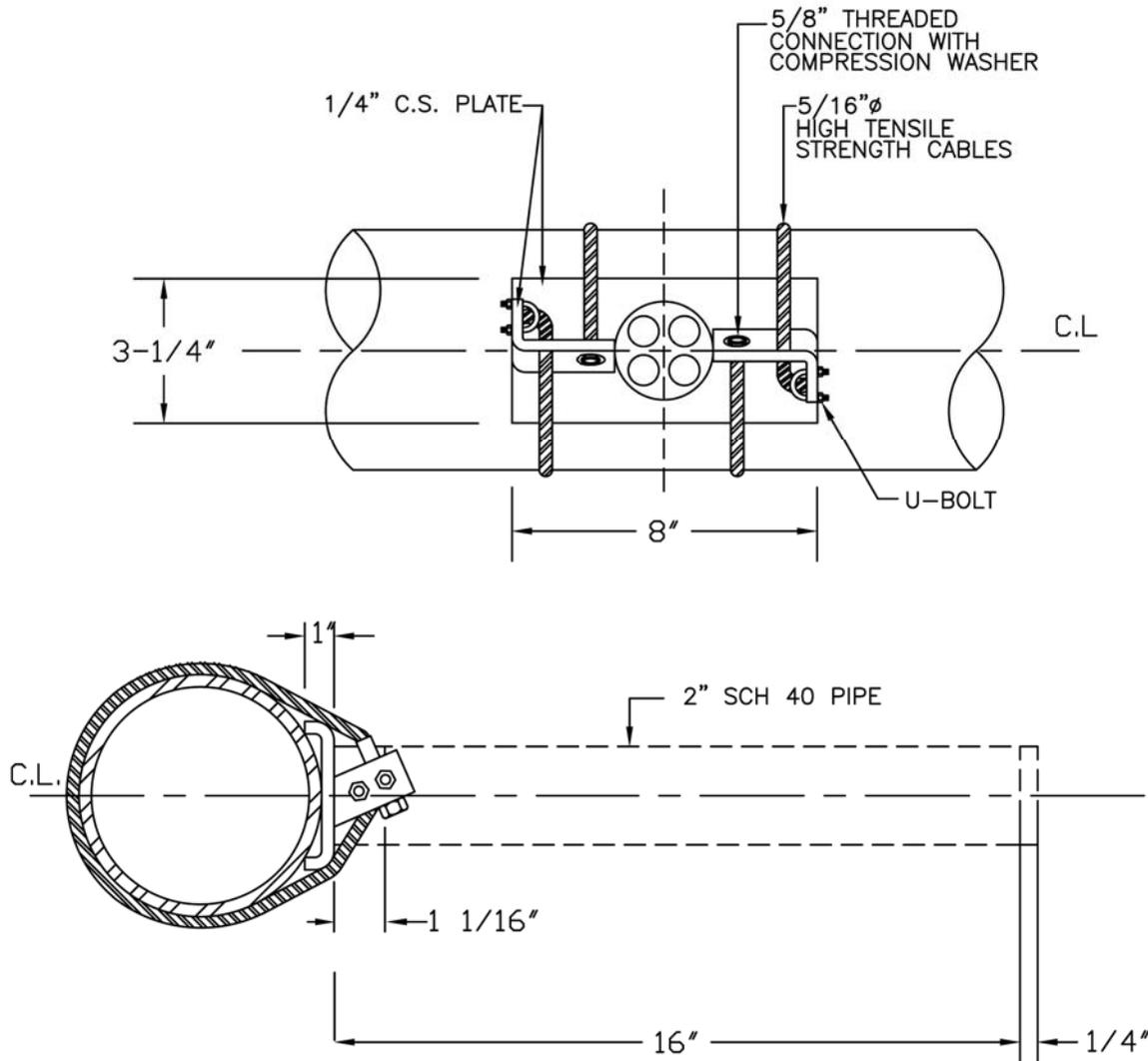


IS-635

3" - 14" Dia. Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

Cable mount saddle with threaded coupling for 2" NPT pipe extension



Design, PTMP 9/17/1999 3:33 PM IS-05

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-635 (3"-14" DIA. HORZ. OR VERT. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, CABLE MOUNT SADDLE W/
 THREADED COUPLING FOR 2" NPT PIPE EXTENSION,
 FOR 3"-14" DIA. HORIZONTAL OR VERTICAL PIPE.

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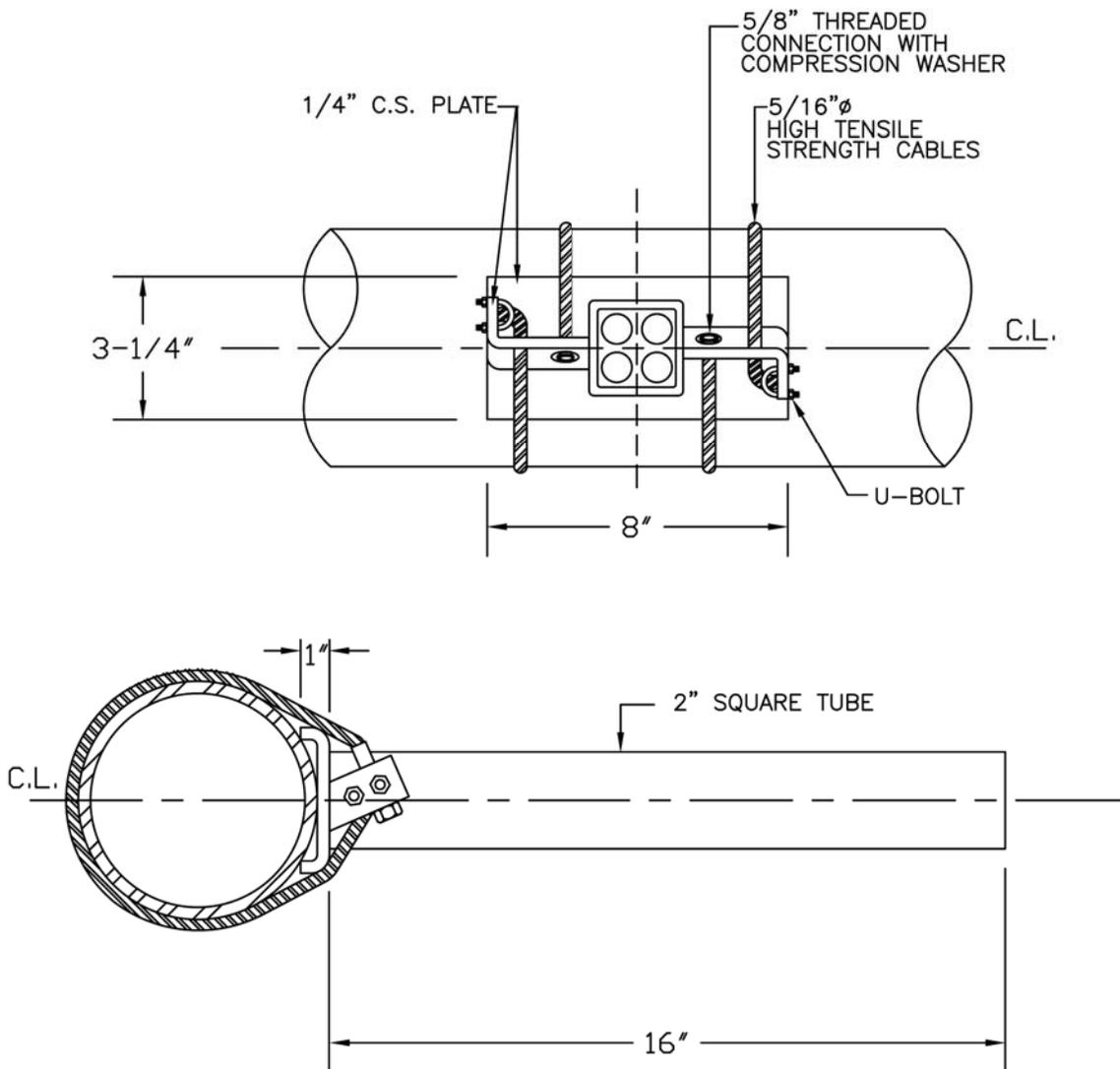


IS-635

3" - 14" Dia. Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

Cable mount saddle with square leg extension



Design, PT&P 9/17/1999 3:46 PM IS-06

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-635 (3"-14" DIA. HORZ. OR VERT. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, CABLE MOUNT SADDLE W/SQ
 LEG EXTENSION FOR 3"-14" DIA. PIPE,
 HORIZONTAL OR VERTICAL.

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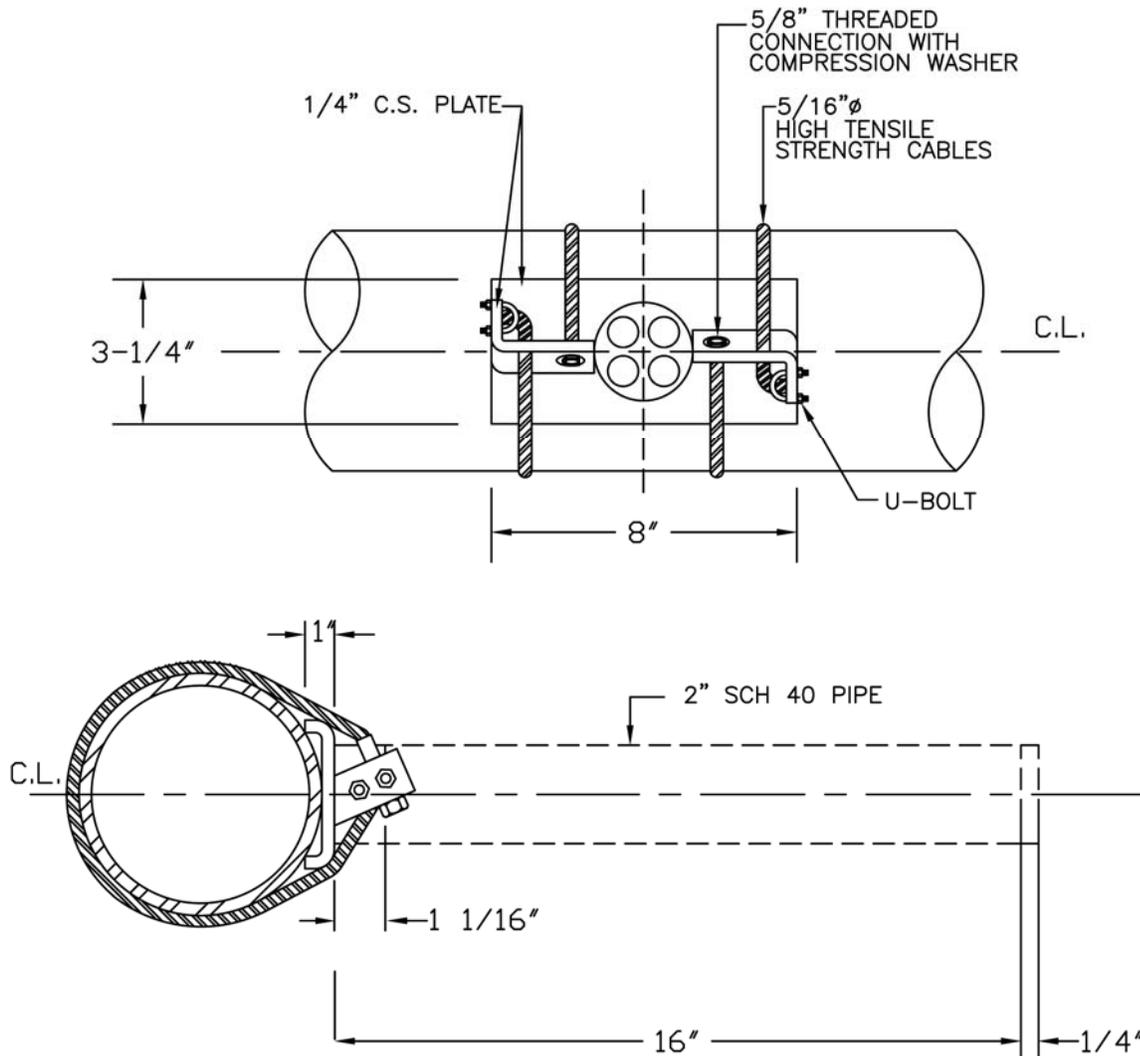


IS-635

16" - 36" Dia. Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

Cable mount saddle with threaded coupling for 2" NPT pipe extension



Design, PT&P 9/17/1999 3:33 PM IS-05

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FIGURE#: IS-635 (16"-36" DIA. HORZ. OR VERT. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, CABLE MOUNT SADDLE W/
 THREADED COUPLING FOR 2" NPT PIPE EXTENSION,
 FOR 16"-36" DIA. HORIZONTAL OR VERTICAL PIPE.

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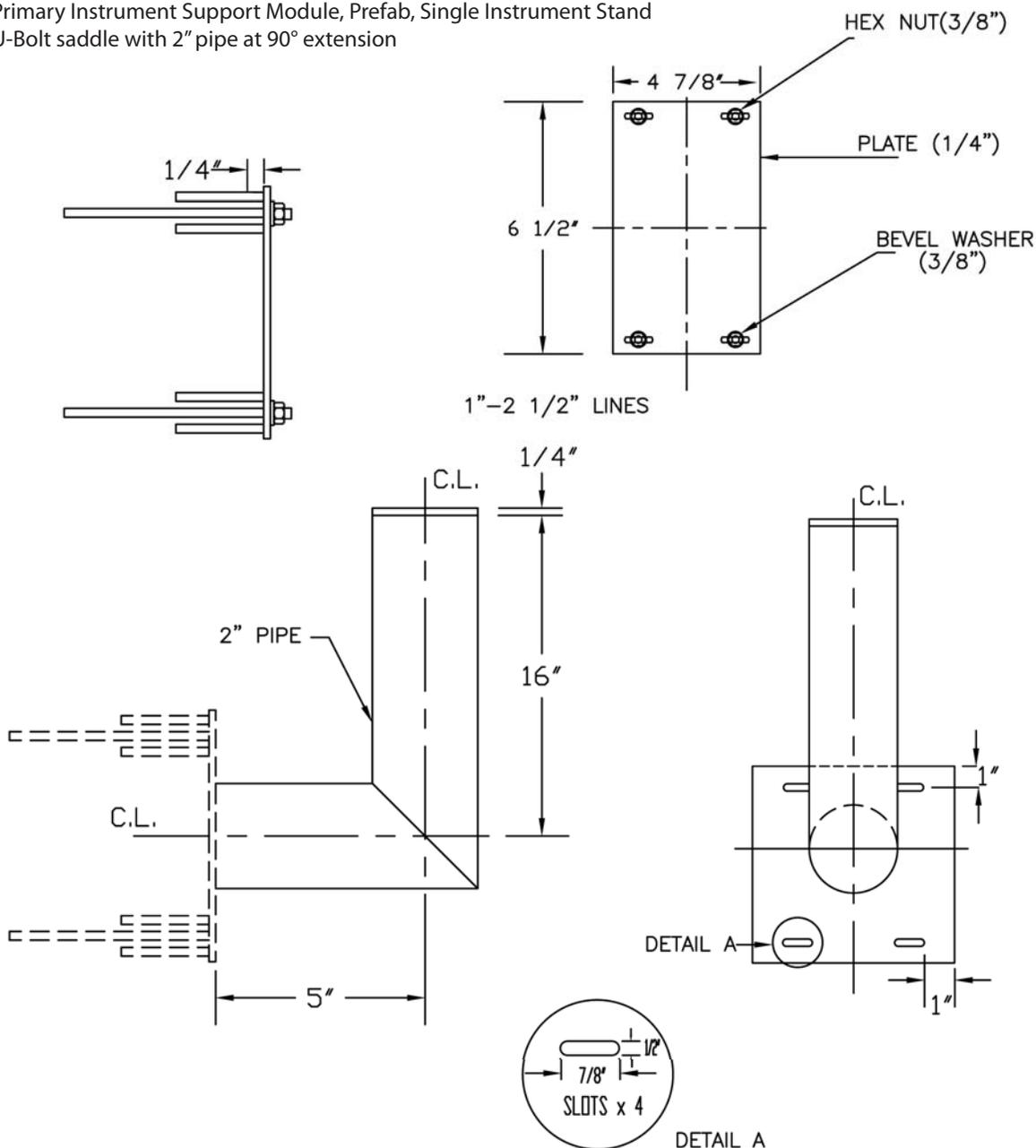


IS-590

1-1/2" Dia. Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt saddle with 2" pipe at 90° extension



Design: PT&P 9/17/1999 4:05 PM IS-08

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-590 (1 1/2" DIA. OR HORZ. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT SADDLE W/2" PIPE @
 90 DEG. EXTENSION FOR 1-1/2" DIA. VERTICAL OR
 HORIZONTAL PIPE.

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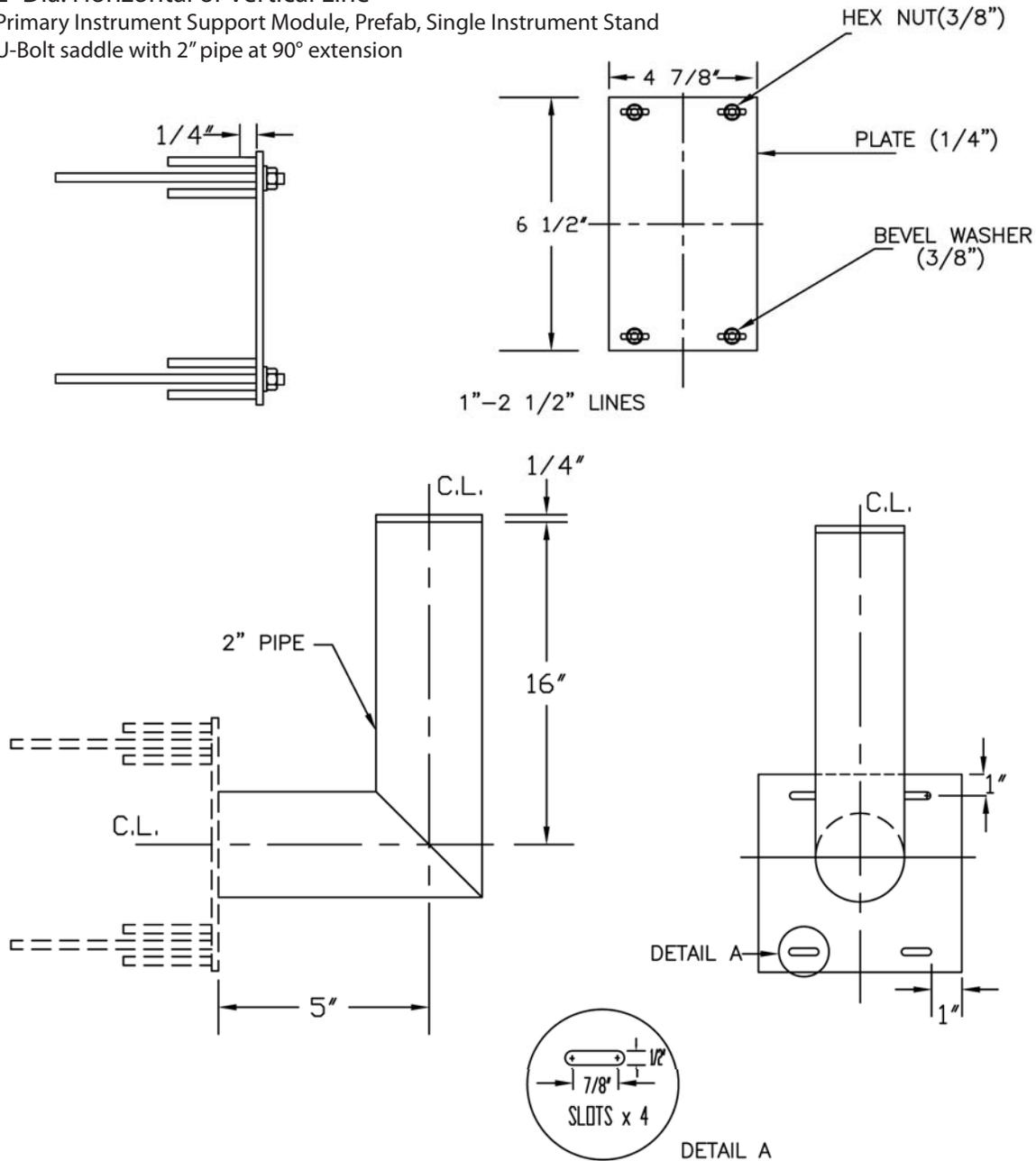


IS-590

2" Dia. Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt saddle with 2" pipe at 90° extension



Design, PT&P 9/17/1999 4:05 PM IS-08

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-590 (2" DIA. OR HORZ. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT SADDLE W/2" PIPE ©
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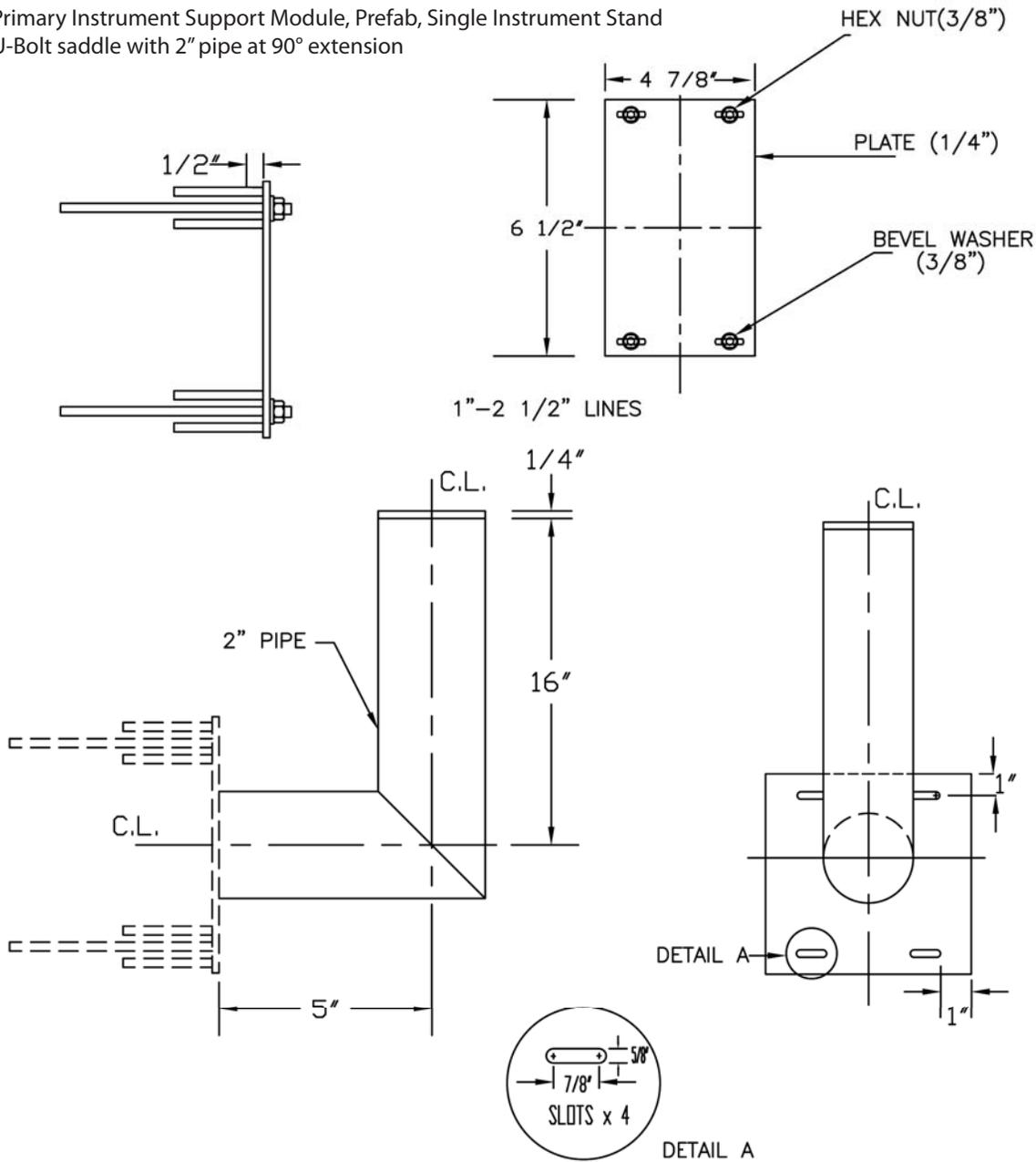


IS-590

2-1/2" Dia. Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt saddle with 2" pipe at 90° extension



Design: PT&P 9/17/1999 4:05 PM IS-08

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-590 (2 1/2" DIA. OR HORZ. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT SADDLE W/2" PIPE @
 90 DEG. EXTENSION FOR 2 1/2" DIA. VERTICAL OR
 HORIZONTAL PIPE.

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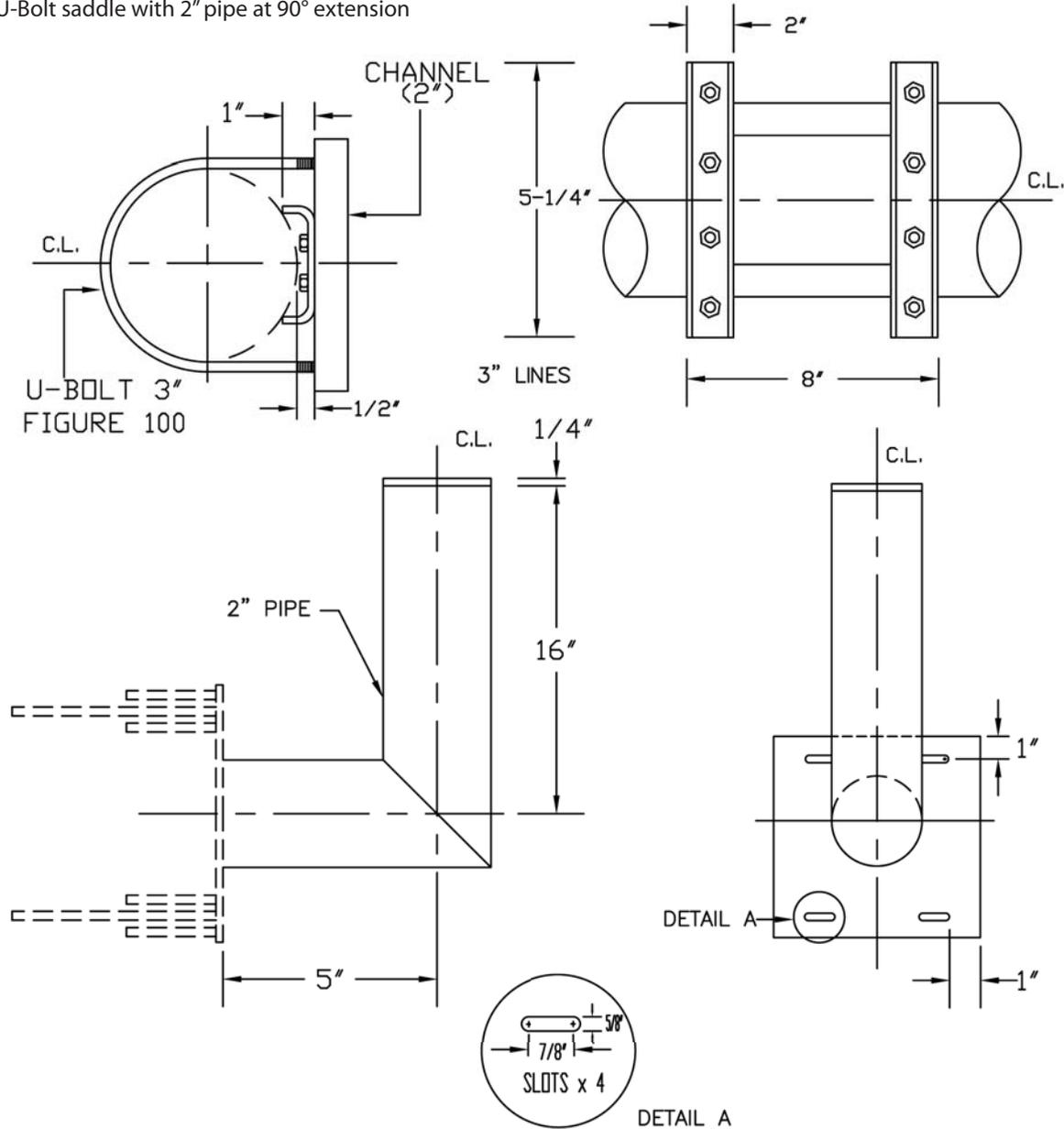


IS-590

3" Dia. Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt saddle with 2" pipe at 90° extension



Design, PT&P 9/17/1999 4:44 PM IS-11

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-590 (3" DIA. VERT. OR HORZ. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT SADDLE W/2" PIPE ©
 90 DEG. EXTENSION FOR 3" DIA. VERTICAL OR
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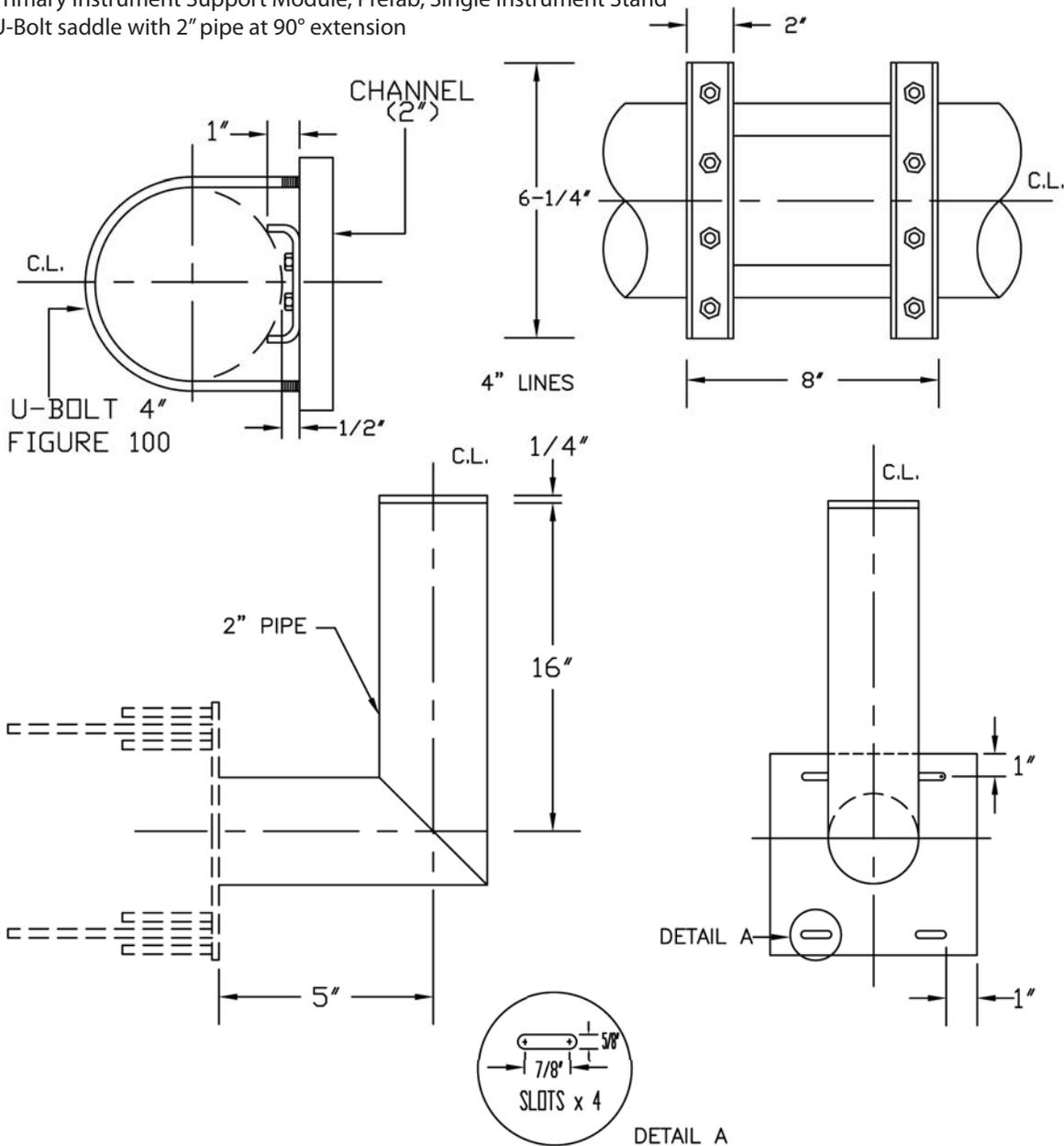


IS-590

4" Dia. Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt saddle with 2" pipe at 90° extension



Design, PT&P 9/17/1999 4:44 PM IS-11

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-590 (4" DIA. VERT. OR HORZ. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT SADDLE W/2" PIPE @
 90 DEG. EXTENSION FOR 4" DIA. VERTICAL OR
 HORIZONTAL PIPE.

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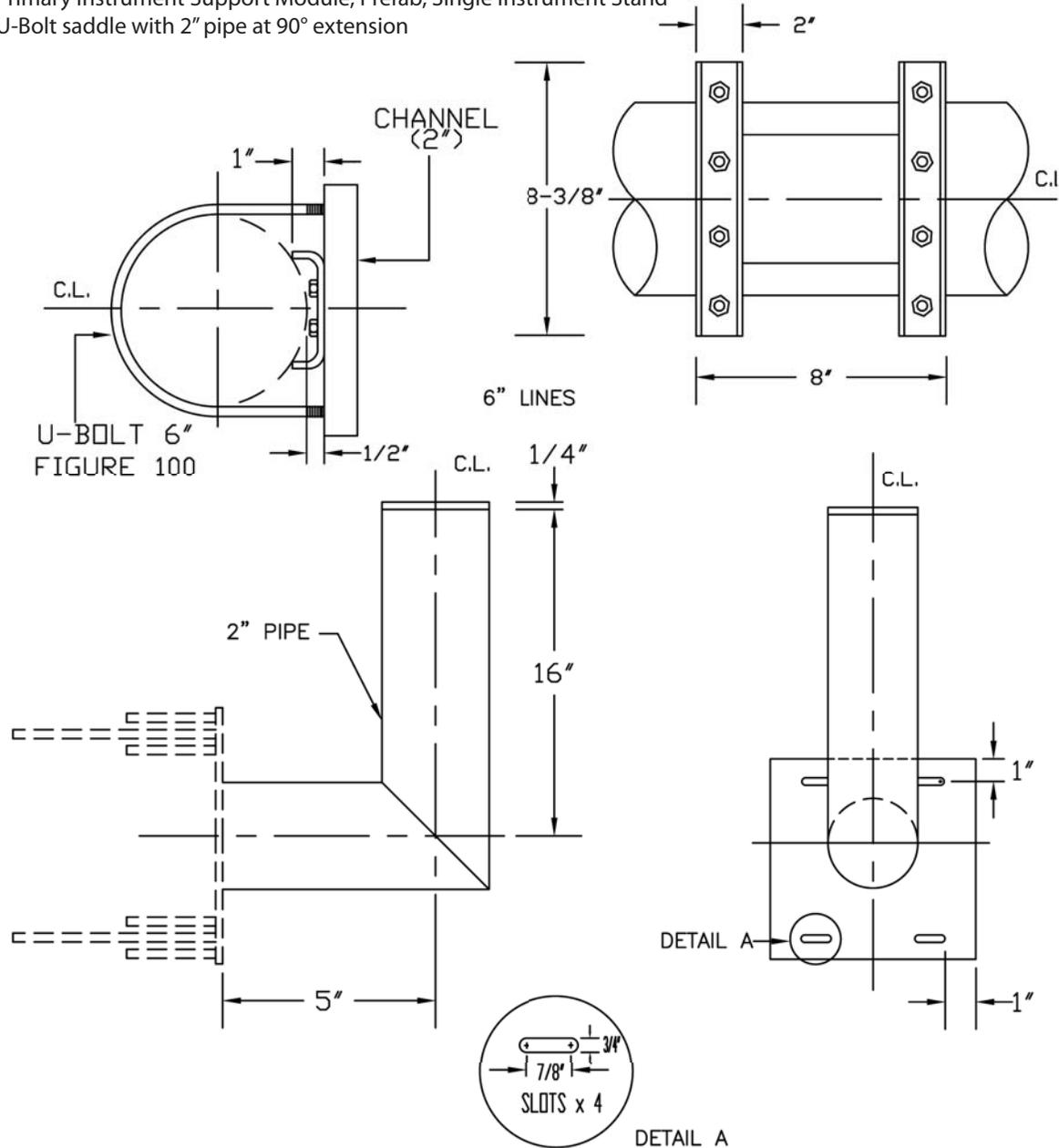


IS-590

6" Dia. Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt saddle with 2" pipe at 90° extension



Design, PTMP 9/17/1999 4:44 PM IS-11

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-590 (6" DIA. VERT. OR HORZ. LINE
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT SADDLE W/2" PIPE ©
 90 DEG. EXTENSION FOR 6" DIA. VERTICAL OR
 HORIZONTAL PIPE.

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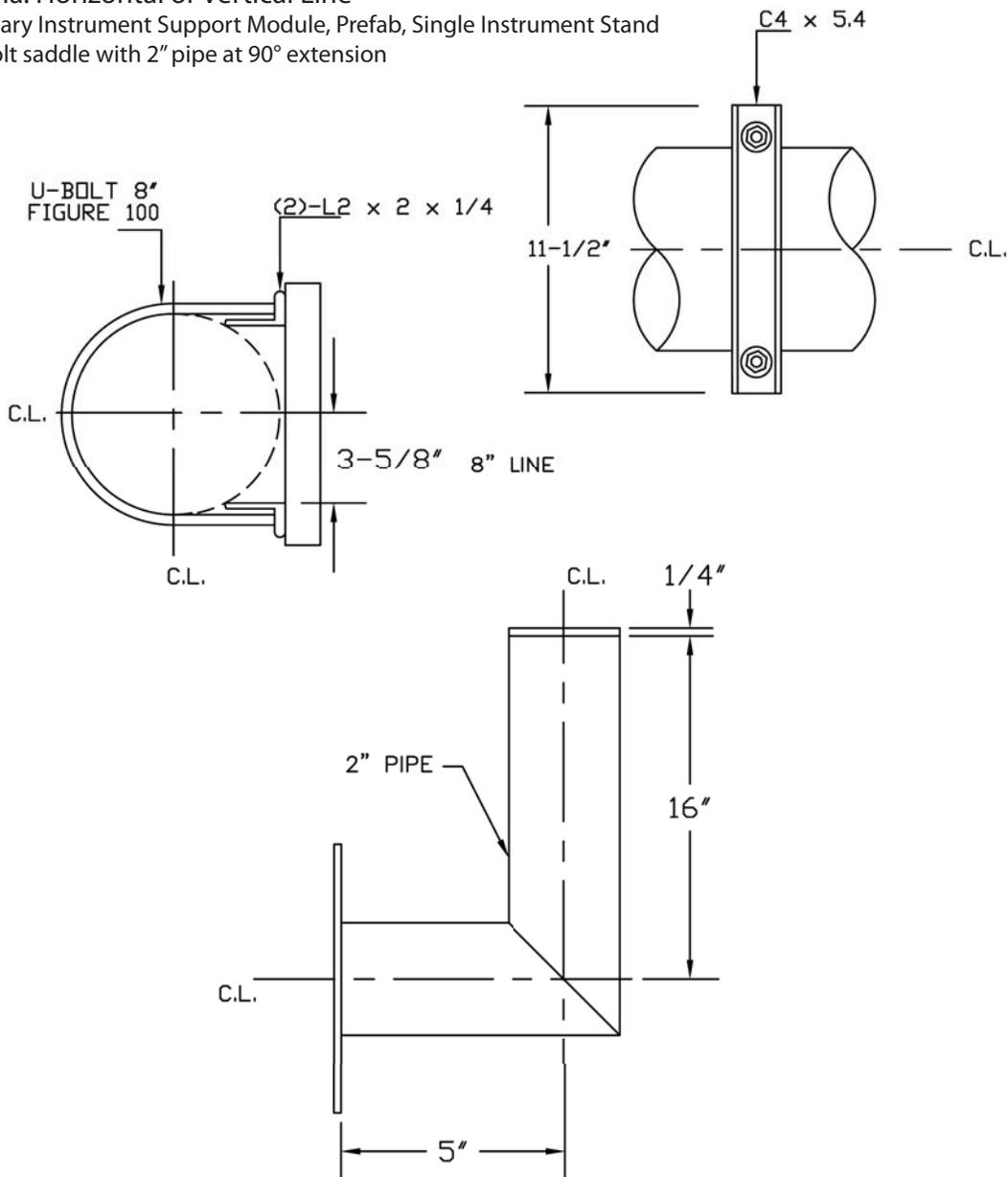


IS-590

8" Dia. Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt saddle with 2" pipe at 90° extension



Design, PT&P 9/18/1999 7:55 AM IS-14

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-590 (8" DIA. VERT. OR HORZ. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT SADDLE W/2" PIPE @
 90 DEG. EXTENSION FOR 8" DIA. VERTICAL OR
 HORIZONTAL PIPE.

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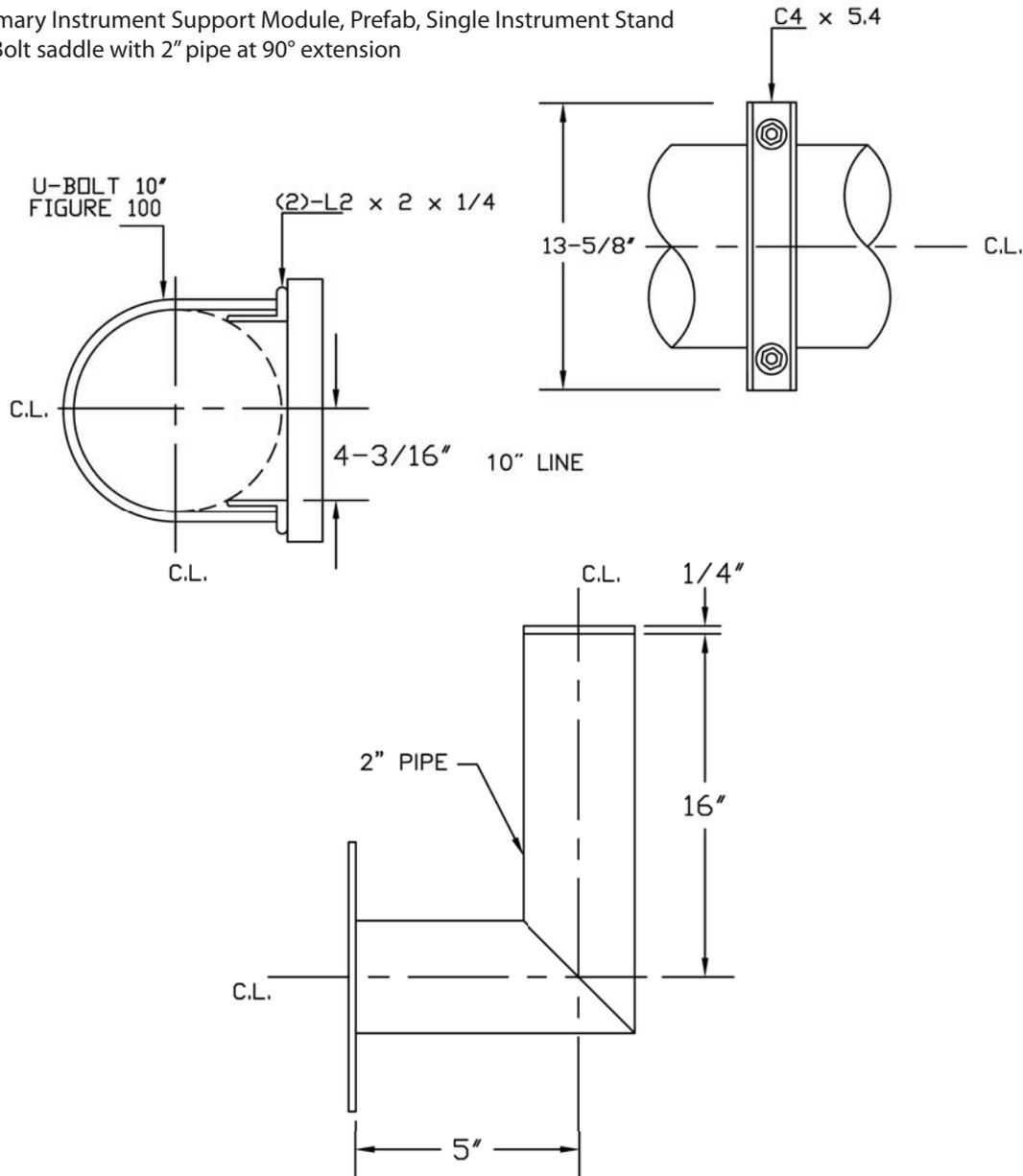


IS-590

10" Dia. Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt saddle with 2" pipe at 90° extension



Design, PT&P 9/18/1999 7:55 AM IS-14

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-590 (10" DIA. VERT. OR HORZ. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT SADDLE W/2" PIPE ©
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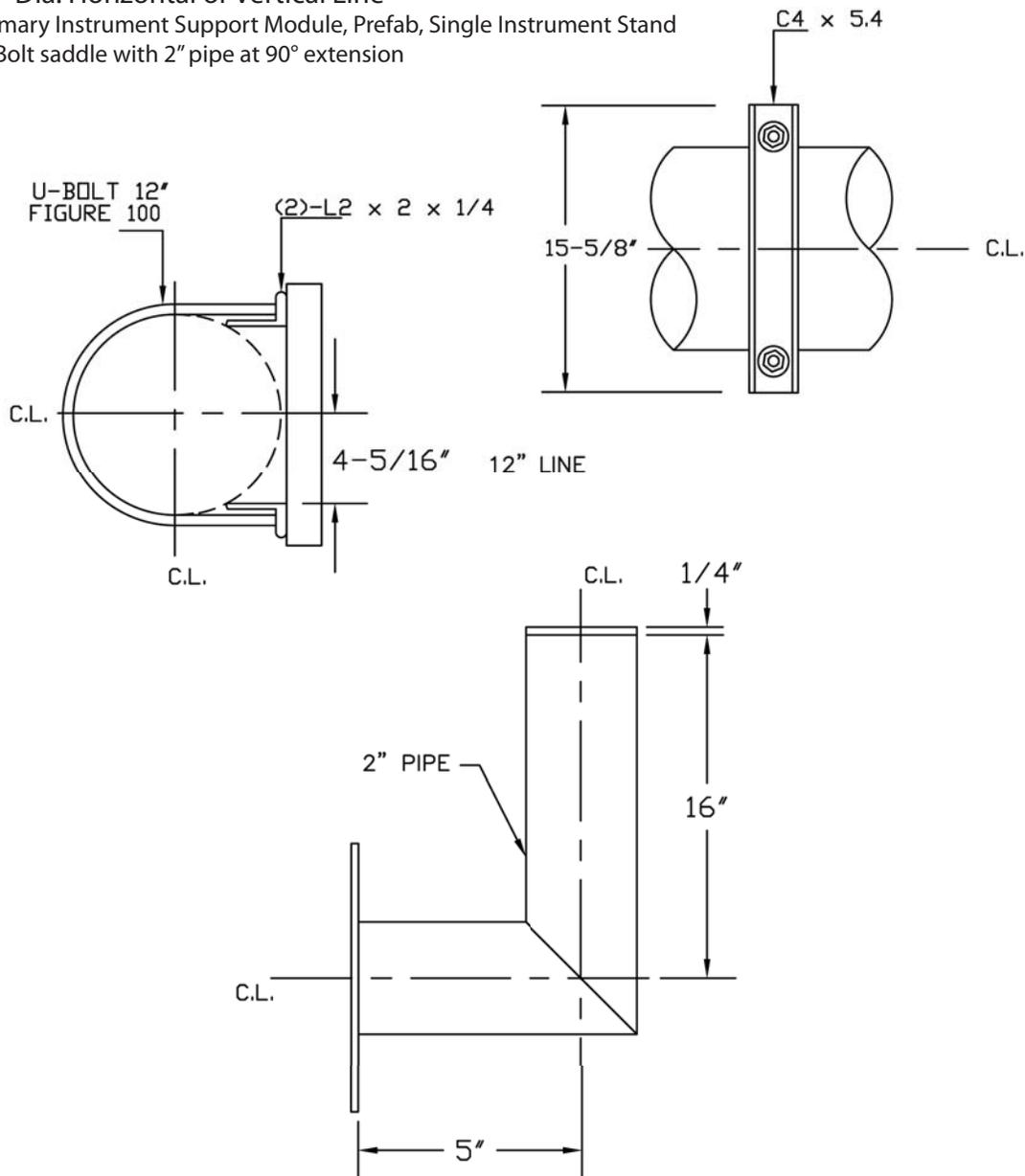


IS-590

12" Dia. Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt saddle with 2" pipe at 90° extension



Design, PT&P 9/18/1999 7:55 AM IS-14

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-590 (12" DIA. VERT. OR HORZ. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT SADDLE W/2" PIPE @
 90 DEG. EXTENSION FOR 12" DIA. VERTICAL OR
 HORIZONTAL PIPE.

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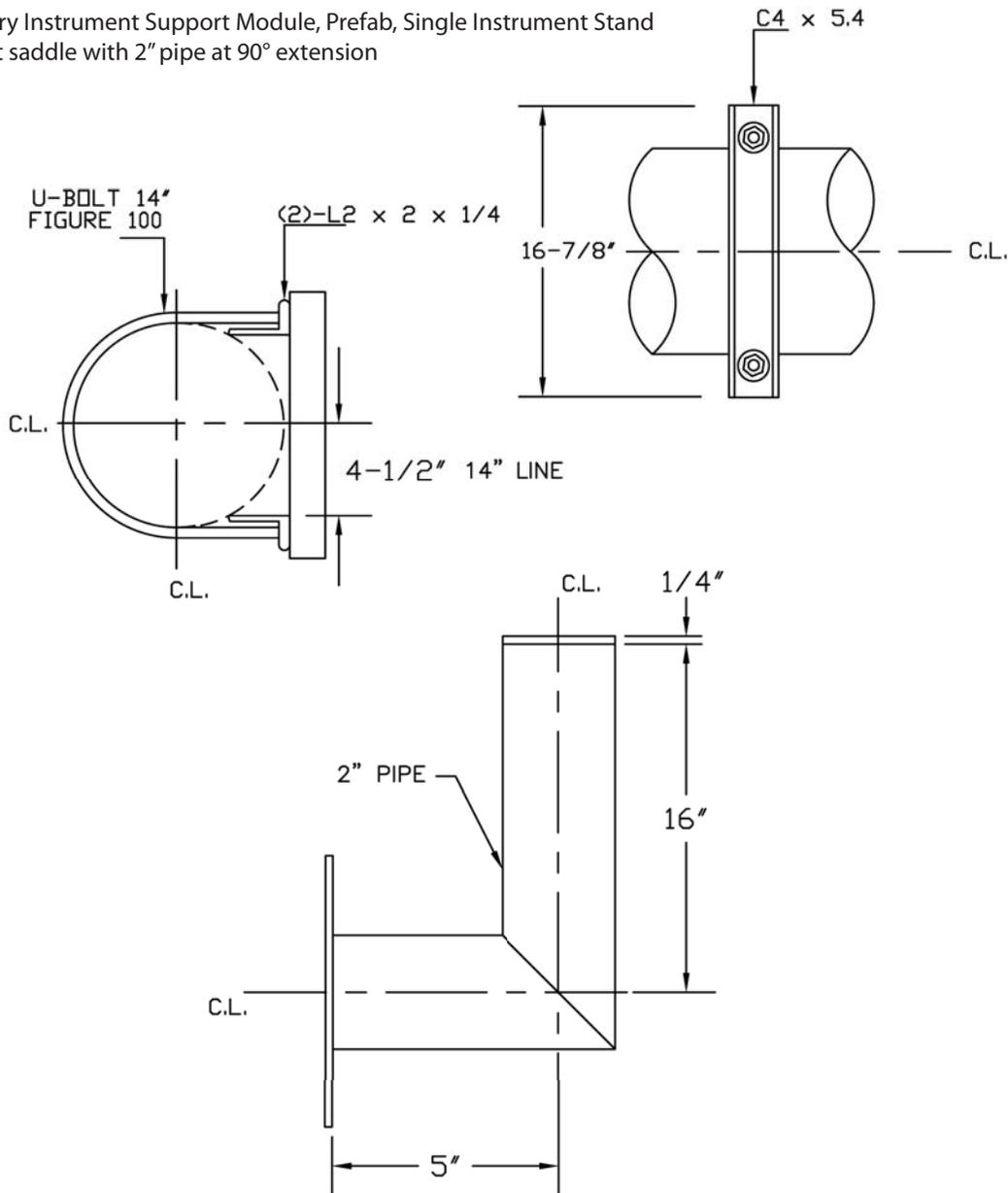


IS-590

14" Dia. Vertical or Horizontal Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt saddle with 2" pipe at 90° extension



Design, PT&P 9/18/1999 7:55 AM IS-14

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-590 (14" DIA. VERT. OR HORZ. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT SADDLE W/2" PIPE ©
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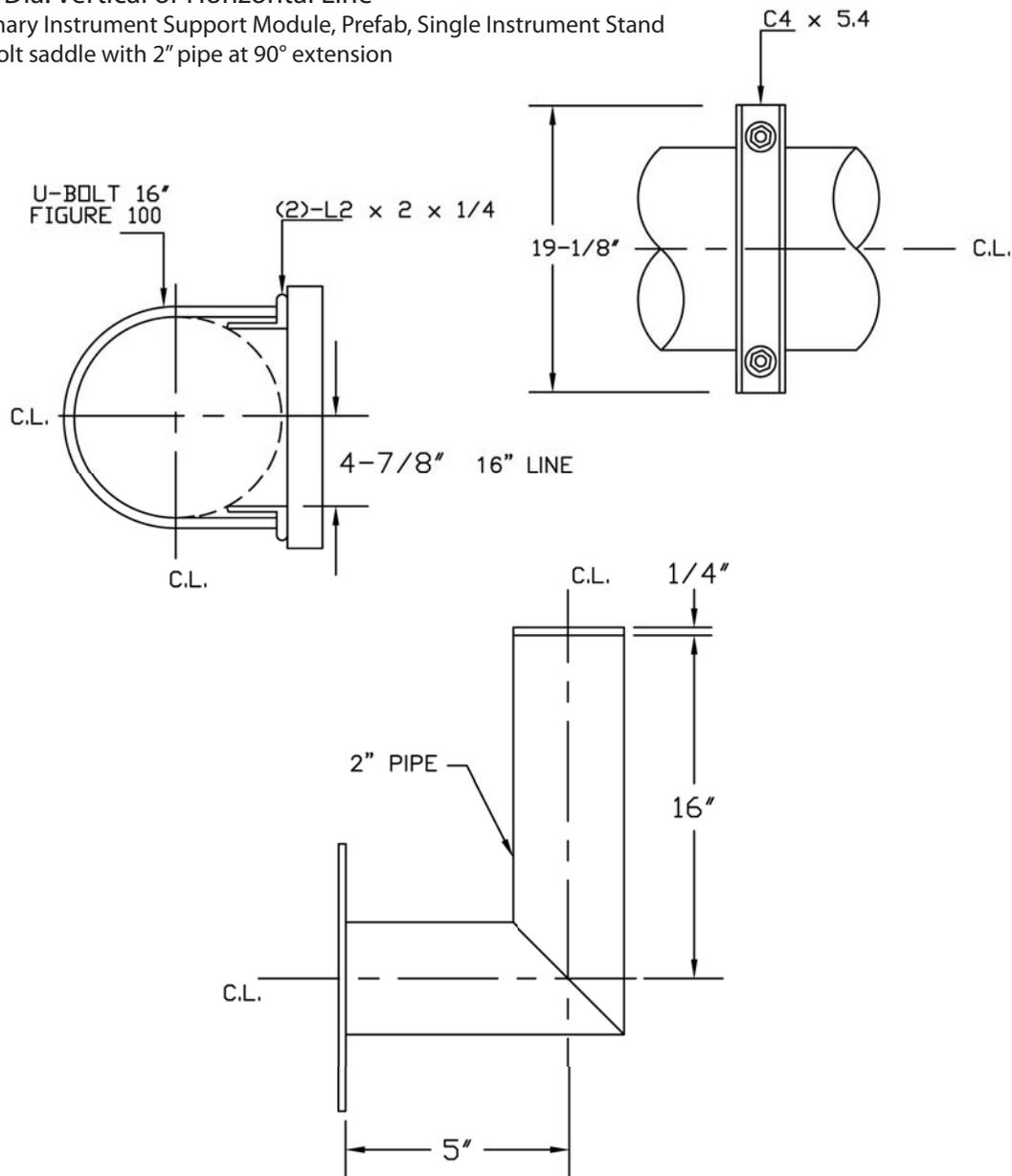


IS-590

16" Dia. Vertical or Horizontal Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt saddle with 2" pipe at 90° extension



Design, PT&P 9/18/1999 7:55 AM IS-14

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-590 (16" DIA. VERT. OR HORZ. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT SADDLE W/2" PIPE ©
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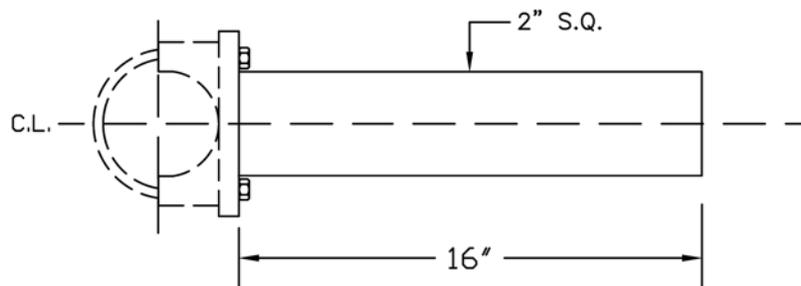
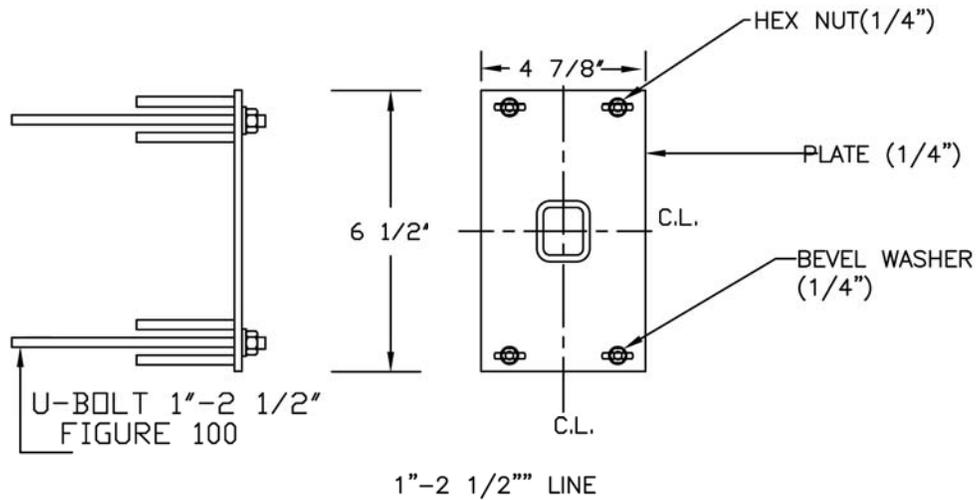


IS-665

1" - 2-1/2" Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt saddle with square leg



Design, PT&P 9/18/1999 10:50 AM IS-25

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-665 (1"-2 1/2" DIA. HORZ. OR VERT. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT SADDLE W/SQ. LEG
 FOR 1"-2 1/2" DIA. HORIZONTAL OR VERTICAL PIPE.

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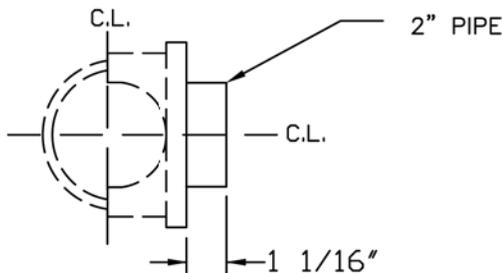
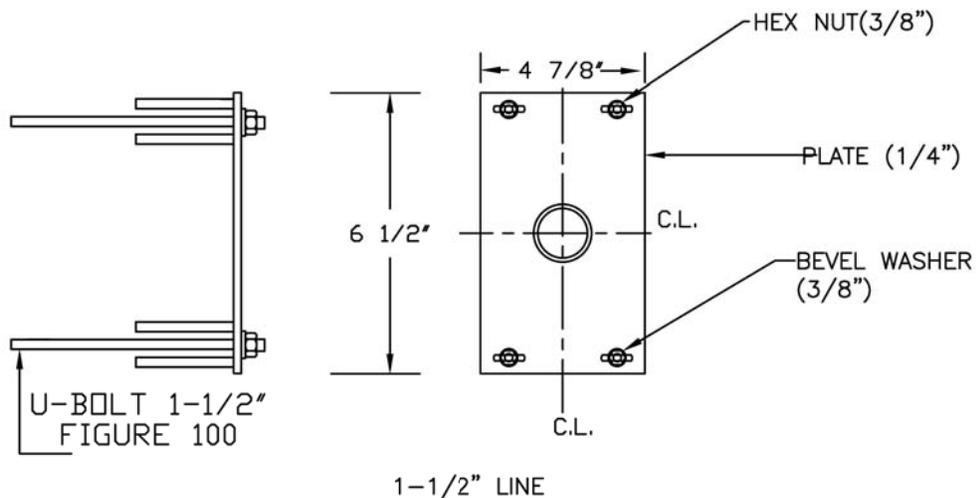


IS-665S

1-1/2" Dia. Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt mount with 2" threaded coupling



Design, PT&P 9/18/1999 10:17 AM IS-24

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-665S (1-1/2" DIA. HORZ. OR VERT. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT MOUNT SADDLE W/2"
 THREADED COUPLING FOR 1-1/2" DIA. HORIZONTAL
 OR VERTICAL PIPE.

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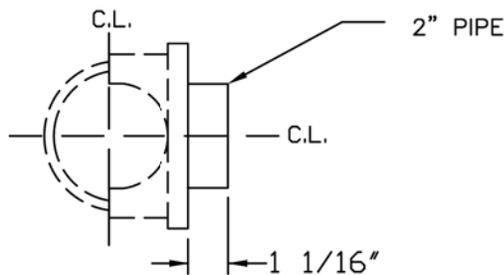
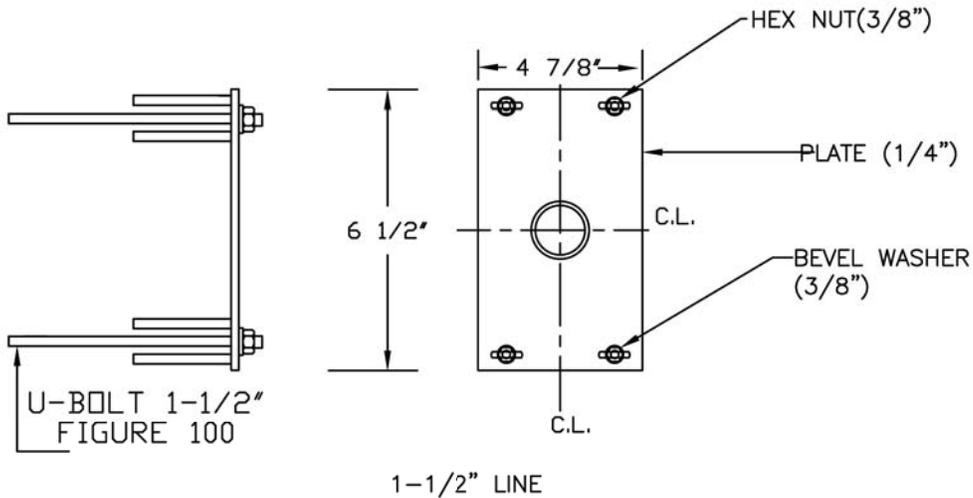


IS-665

1-1/2" Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt saddle with square leg



Design, PT&P 9/18/1999 10:17 AM IS-24

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-665S (1-1/2" DIA. HORZ. OR VERT. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT MOUNT SADDLE W/2"
 THREADED COUPLING FOR 1-1/2" DIA. HORIZONTAL
 OR VERTICAL PIPE.

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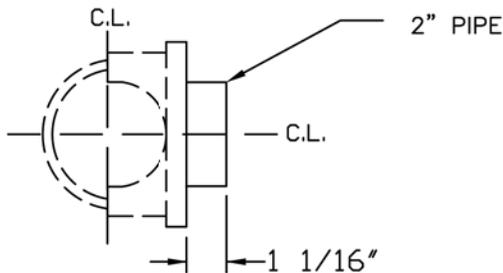
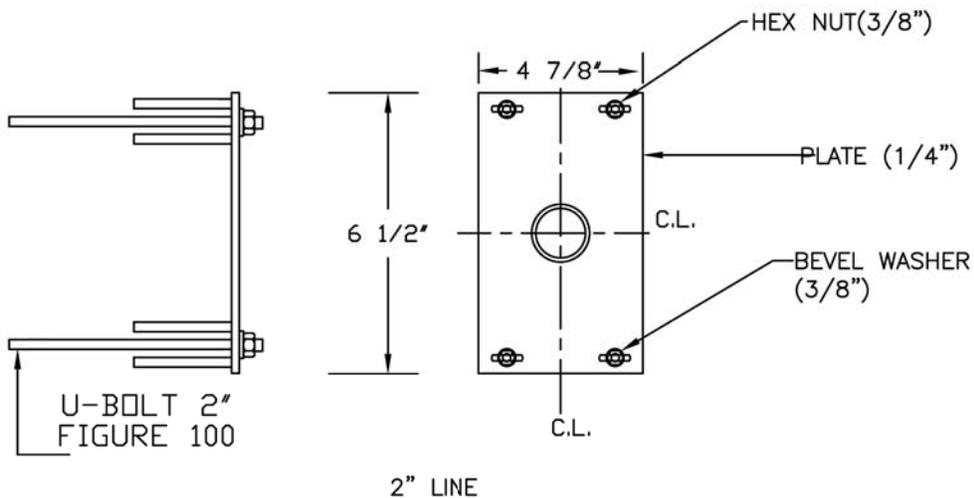


IS-665S

2" Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt mount with 2" threaded coupling



Design, PT&P 9/18/1999 1017 AM IS-24

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-665S (2" DIA. HORZ. OR VERT. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT MOUNT SADDLE W/2"
 THREADED COUPLING FOR 2" DIA. HORIZONTAL
 OR VERTICAL PIPE.

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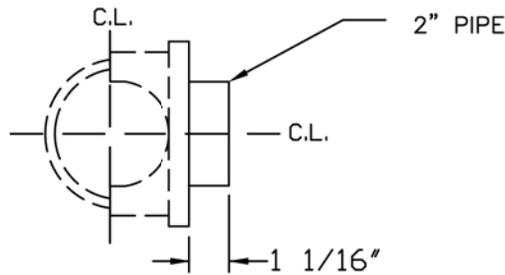
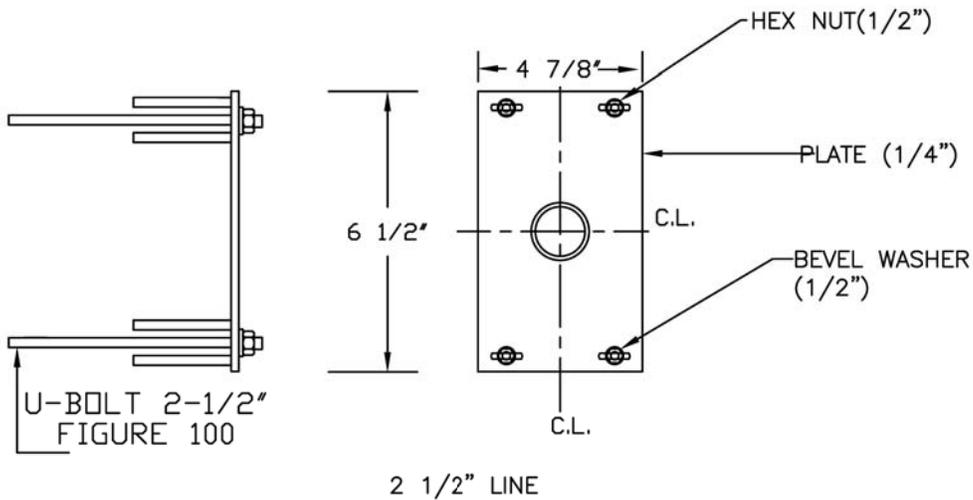


IS-665

2" Dia. Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt saddle with square leg



Design, PT&P 9/18/1999 10:17 AM IS-24

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-665S (2 1/2" DIA. HORZ. OR VERT. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT MOUNT SADDLE W/2"
 THREADED COUPLING FOR 2 1/2" DIA. HORIZONTAL
 OR VERTICAL PIPE.

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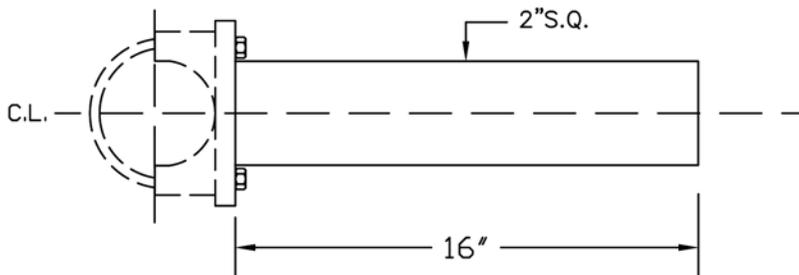
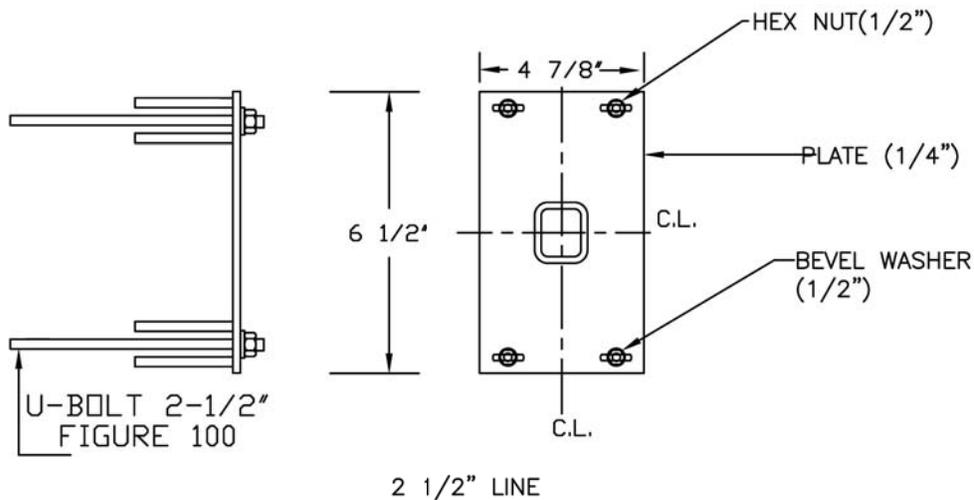


IS-665S

2-1/2" Dia. Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt saddle with 2" threaded coupling



Design, PT&P 9/18/1999 10:50 AM IS-25

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-665 (2 1/2" DIA. HORZ. OR VERT. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT SADDLE W/SQ. LEG
 FOR 2 1/2" DIA. HORIZONTAL OR VERTICAL PIPE.

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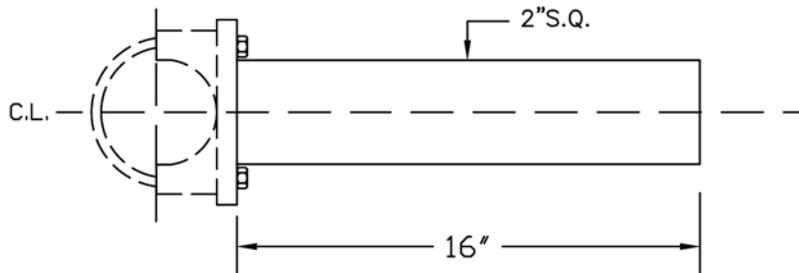
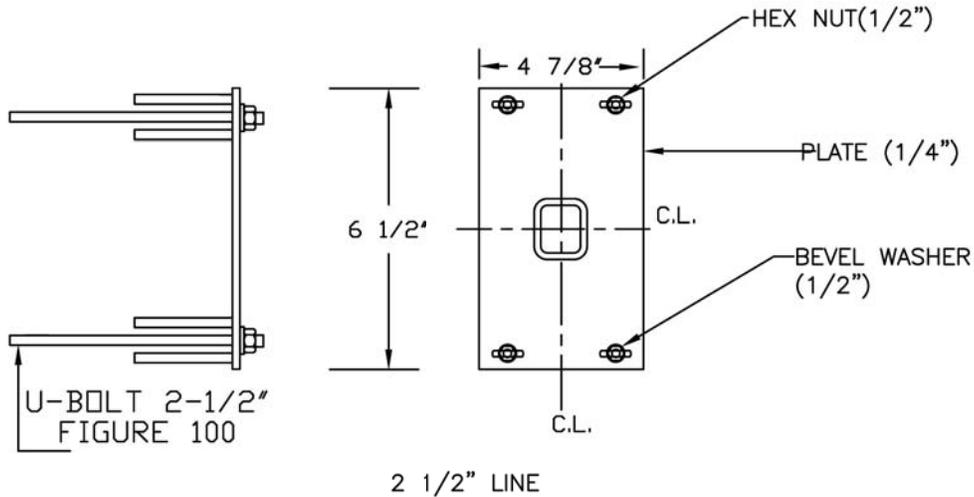


IS-665

2-1/2" Dia. Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt saddle with square leg



Design, PT&P 9/18/1999 10:50 AM IS-25

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-665 (2 1/2" DIA. HORZ. OR VERT. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT SADDLE W/SQ. LEG
 FOR 2 1/2" DIA. HORIZONTAL OR VERTICAL PIPE.

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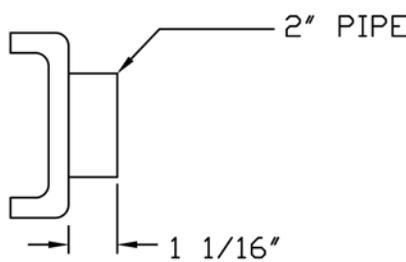
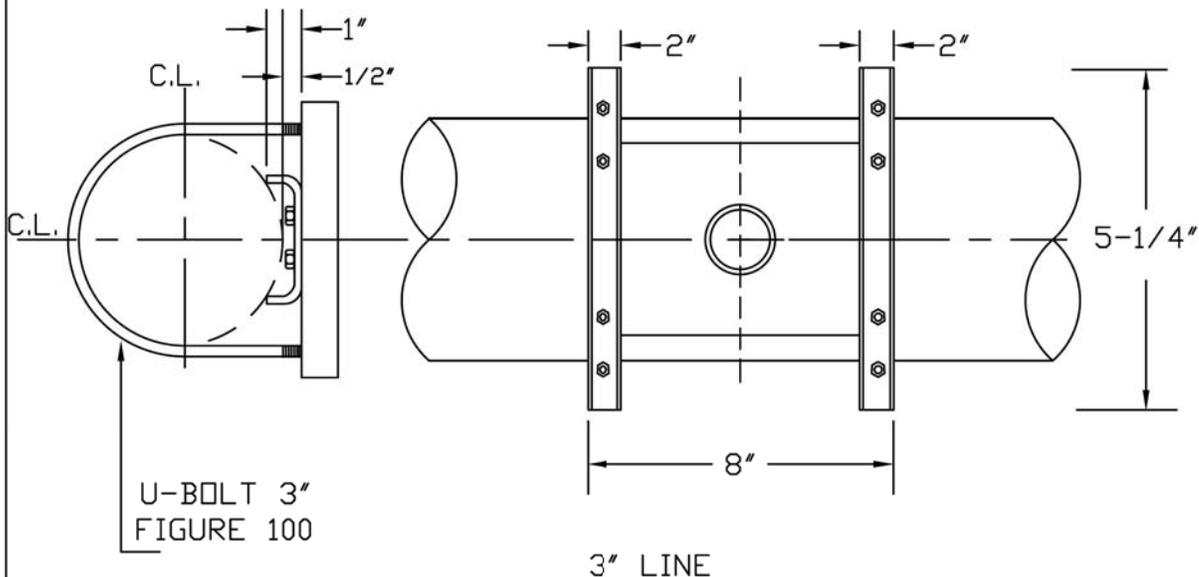


IS-665

3" Dia. Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt saddle with 2" threaded coupling



Design, PT&P 9/20/1999 8:09 AM IS-28

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-665 (3" DIA. HORIZ. OR VERT. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT MOUNT SADDLE W/2"
 THREADED COUPLING FOR 3" DIA. HORIZONTAL OR
 VERTICAL PIPE.

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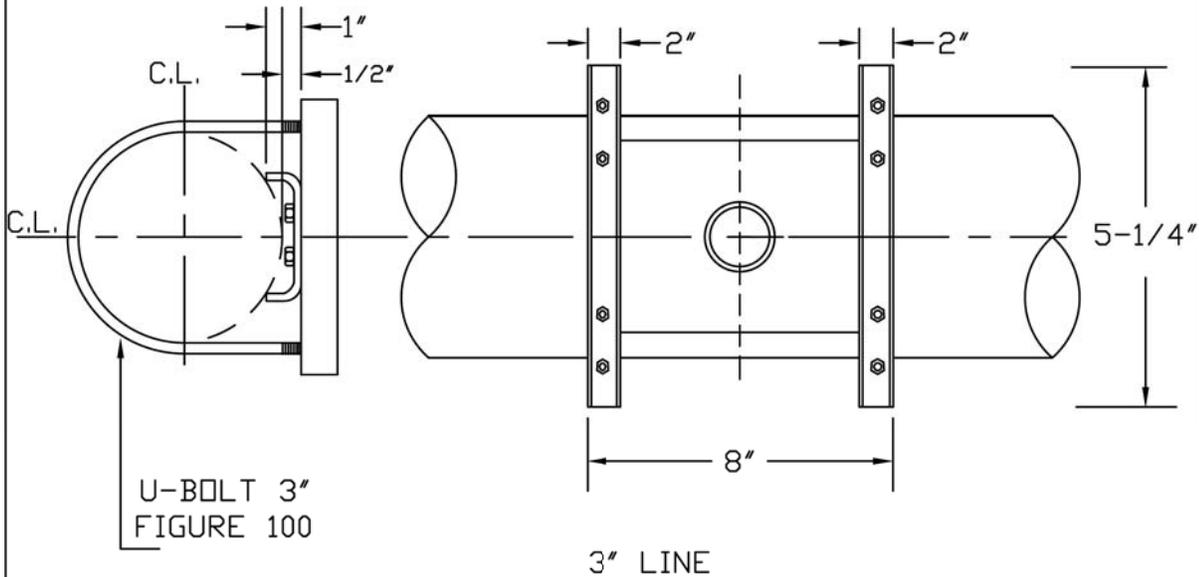


IS-665

3" Dia. Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt saddle with 2" threaded coupling



Design, PT&P 9/20/1999 9:09 AM IS-28

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-665 (3" DIA. HORZ. OR VERT. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT MOUNT SADDLE W/2"
 THREADED COUPLING FOR 3" DIA. HORIZONTAL OR
 VERTICAL PIPE.

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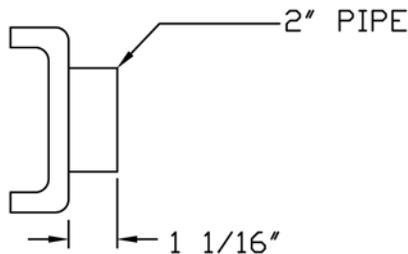
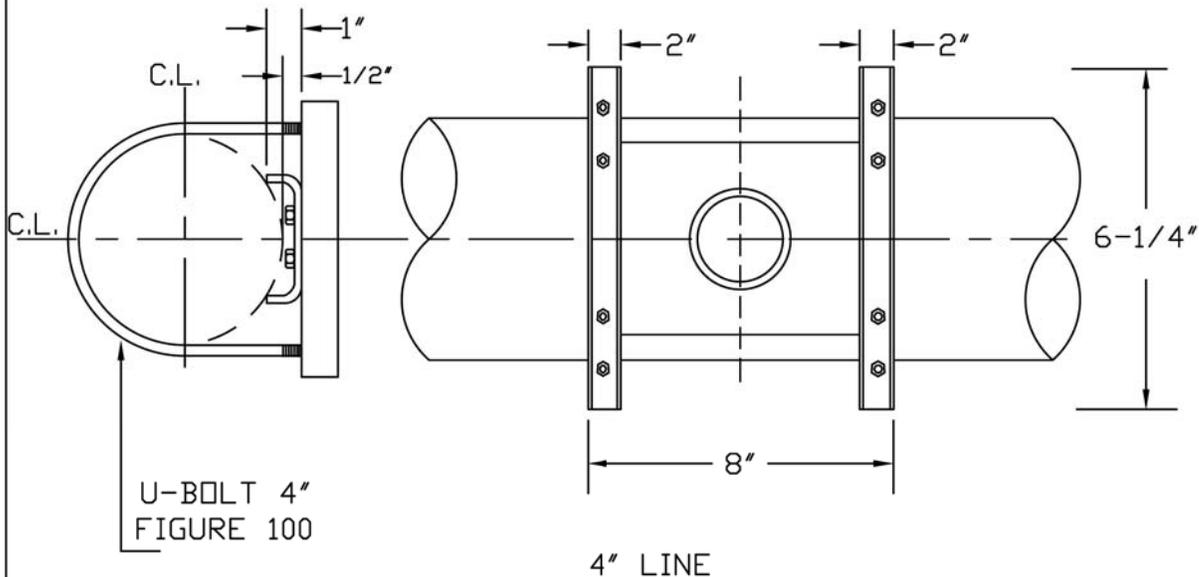


IS-665

4" Dia. Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt saddle with 2" threaded coupling



Design, PT&P 9/20/1999 8:09 AM IS-28

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-665 (4" DIA. HORIZ. OR VERT. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT MOUNT SADDLE W/2"
 THREADED COUPLING FOR 4" DIA. HORIZONTAL OR
 VERTICAL PIPE.

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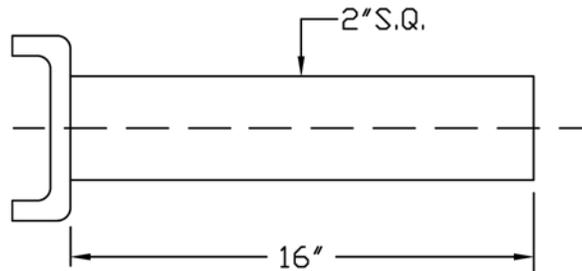
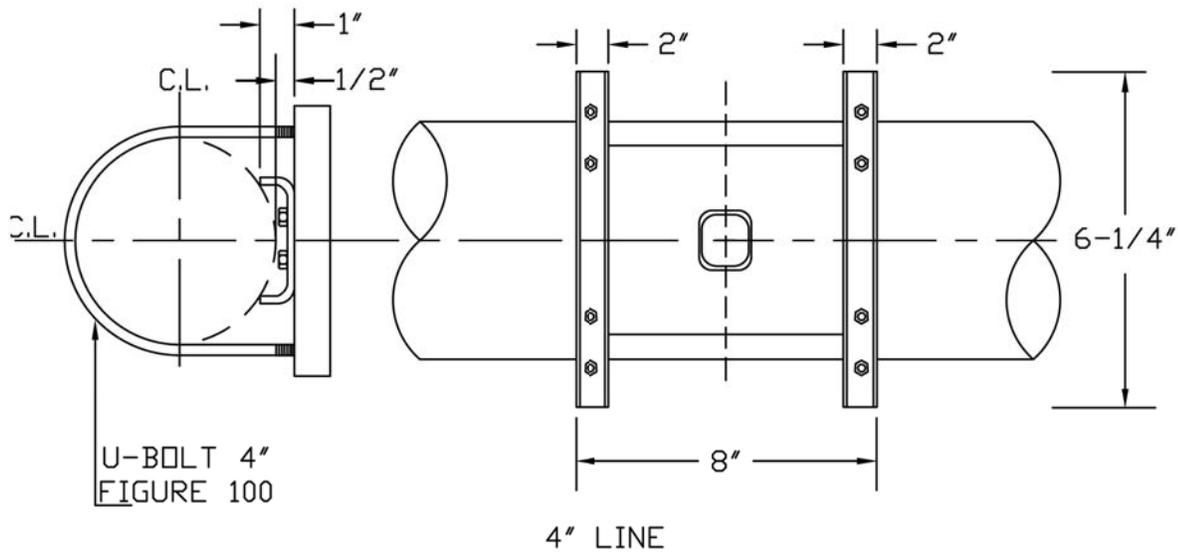


IS-665

4" Dia. Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt saddle with square leg



Design, PT&P 9/20/1999 9:26 AM IS-29

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-665 (4" DIA. HORZ. OR VERT. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT MOUNT SADDLE W/SQ.
 LEG FOR 4" DIA. HORIZONTAL OR VERTICAL PIPE.

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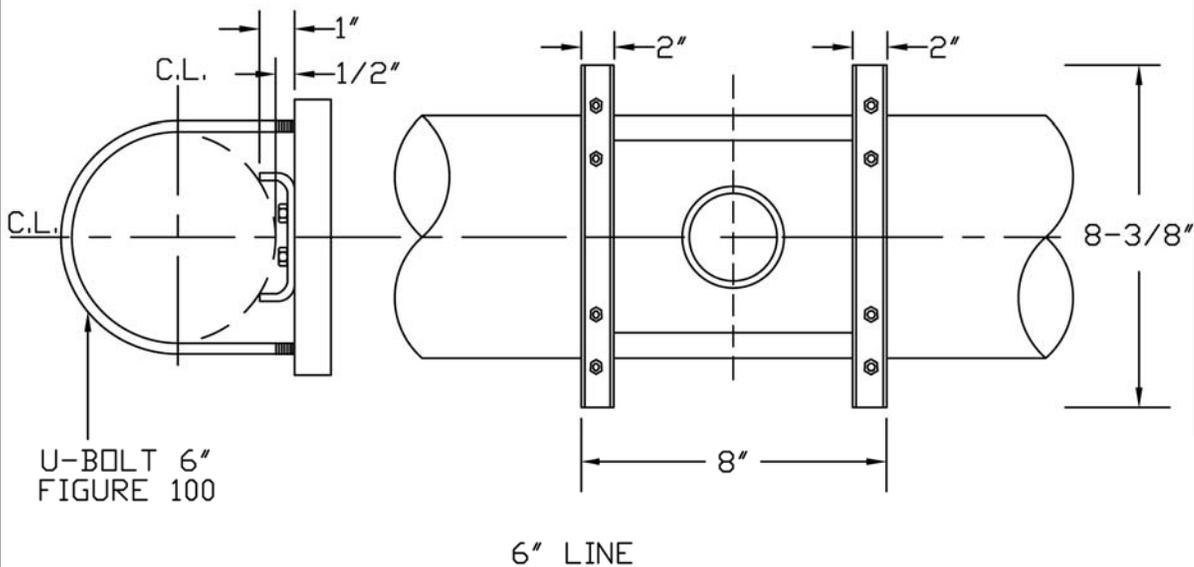


IS-665S

6" Dia. Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt saddle with 2" threaded coupling



Design, PT&P 9/20/1999 0:13 AM IS-30

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-665S (6" DIA. HORZ. OR VERT. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT MOUNT SADDLE W/2"
 THREADED COUPLING FOR 6" DIA. HORIZONTAL OR
 VERTICAL PIPE.

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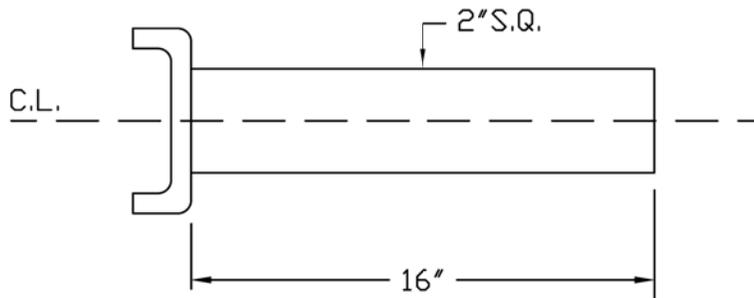
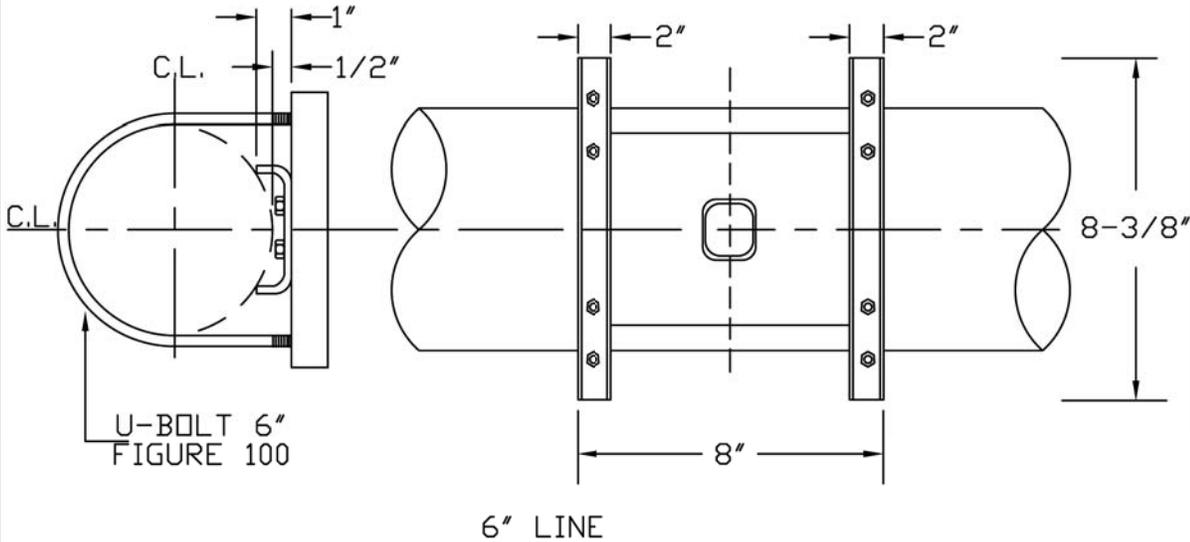


IS-665

6" Dia. Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt saddle with square leg



Design, PT&P 9/20/1999 9:30 AM IS-31

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-665 (6" DIA. HORZ. OR VERT. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT SADDLE W/SQ.
 LEG FOR 6" DIA. HORIZONTAL OR VERTICAL PIPE.

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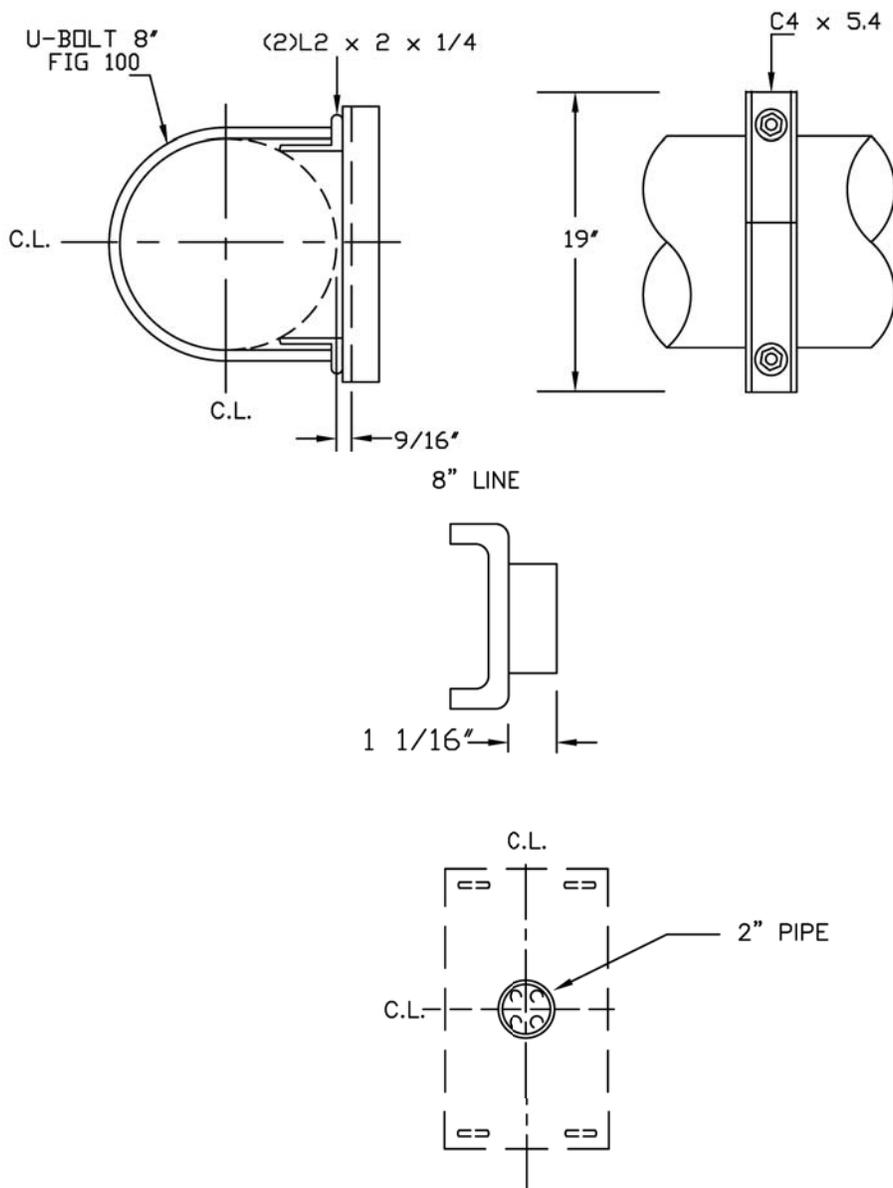


IS-665S

8" Dia. Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt saddle with 2" threaded coupling



Design, PT&P 9/20/1999 9:11 AM IS-38

CLIENT NAME: _____

PROJECT NAME: _____

REQUISITION#: _____

PT&P JOB#: _____ ITEM#: _____

P.O.#: _____

DWG#: _____

REV#: _____

MARK#: _____

FINISH: _____

DATE#: _____

FIGURE#: IS-665S (8" DIA. HORZ. OR VERT. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT SADDLE W/2"
 THREADED COUPLING FOR 8" DIA. HORIZONTAL OR
 VERTICAL PIPE.

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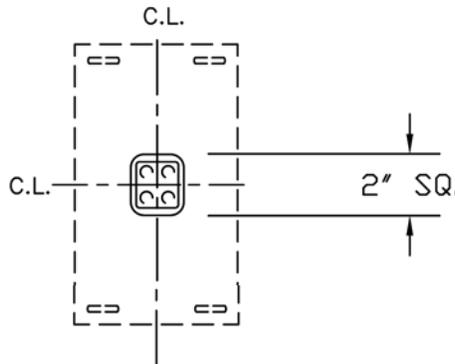
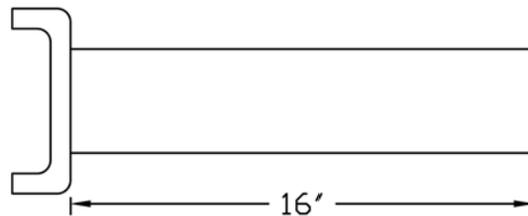
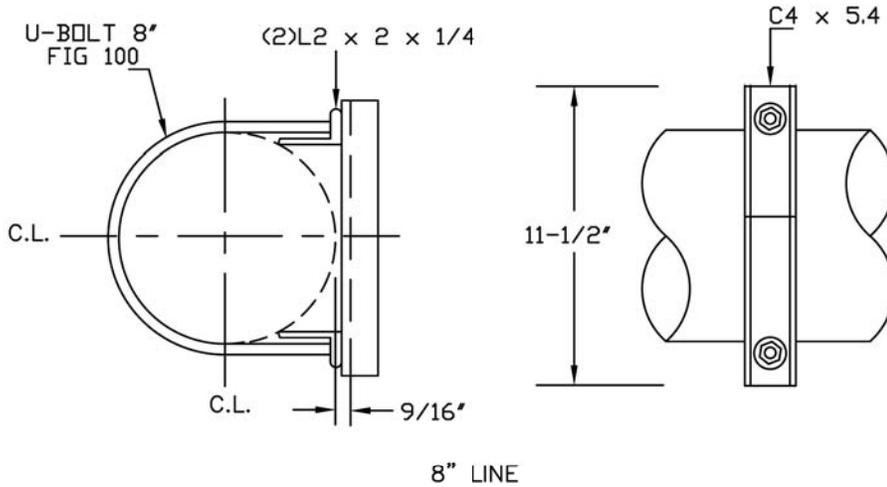


IS-665

8" Dia. Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt saddle with square leg



Design, PT&P 9/20/1999 10:21 AM IS-39

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-665 (8" DIA. HORZ. OR VERT. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT MOUNT SADDLE W/SQ.
 LEG FOR 8" DIA. HORIZONTAL OR VERTICAL PIPE.

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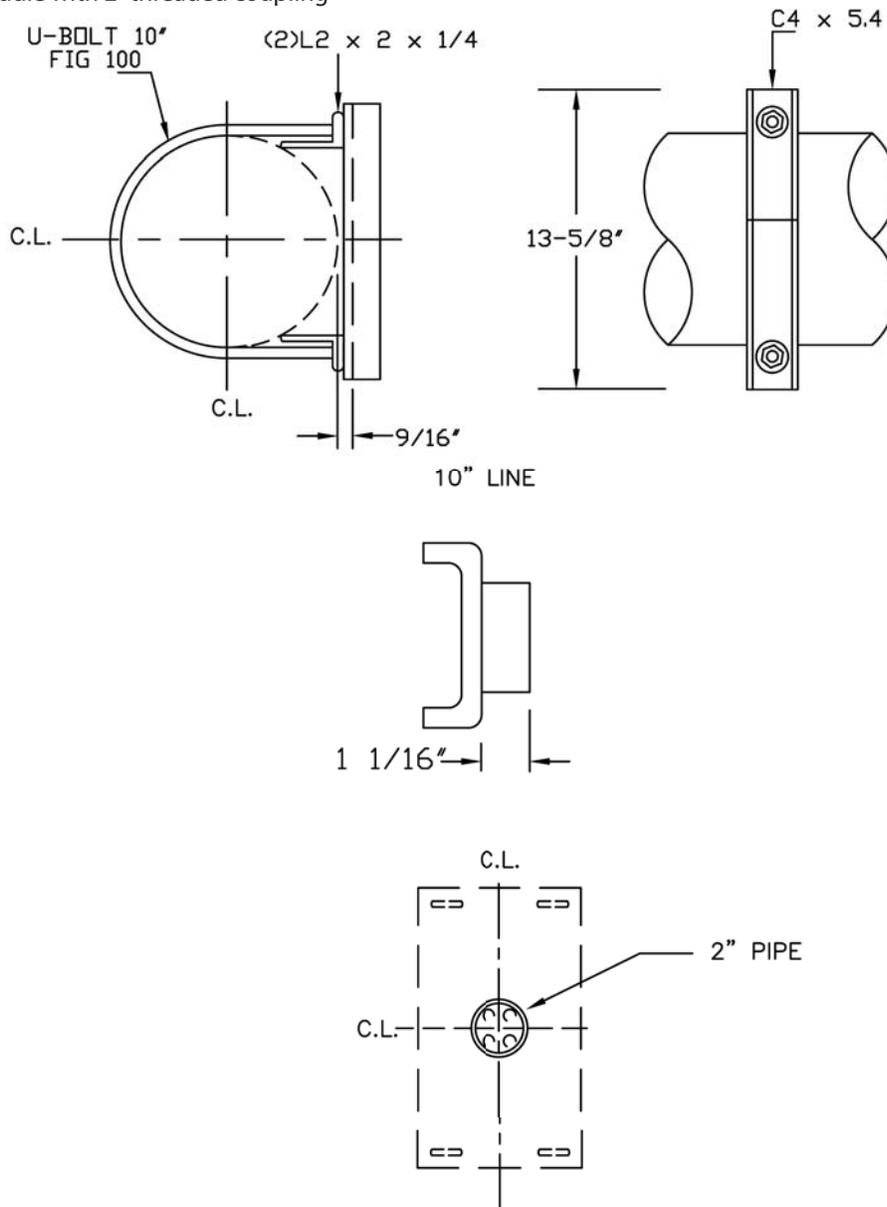


IS-665S

10" Dia. Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt saddle with 2" threaded coupling



Design, PT&P 9/20/1999 9:11 AM IS-38

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-665S (10" DIA. HORZ. OR VERT. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT SADDLE W/2"
 THREADED COUPLING FOR 10" DIA. HORIZONTAL OR
 VERTICAL PIPE.

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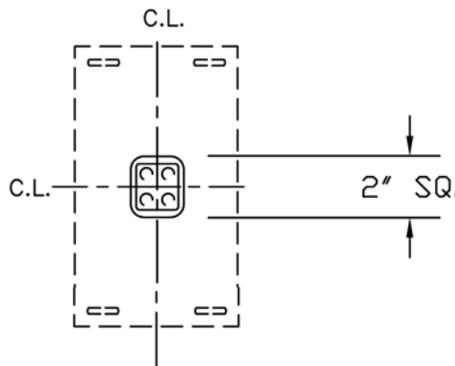
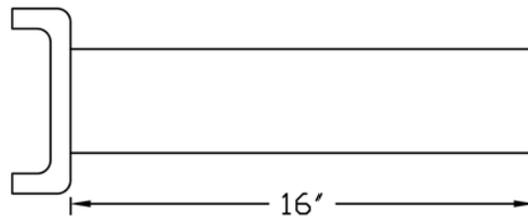
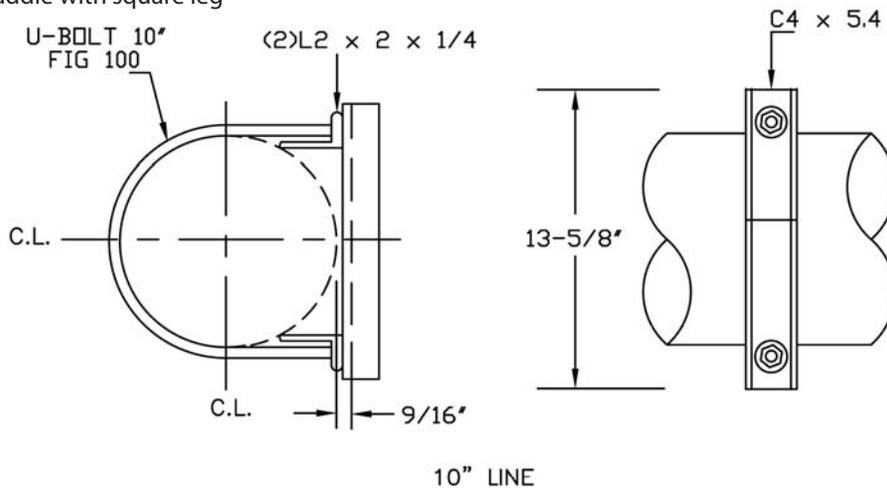


IS-665

10" Dia. Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt saddle with square leg



Design, PT&P 9/20/1999 10:21 AM IS-39

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-665 (10" DIA. HORZ. OR VERT. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT MOUNT SADDLE W/SQ.
 LEG FOR 10" DIA. HORIZONTAL OR VERTICAL PIPE.

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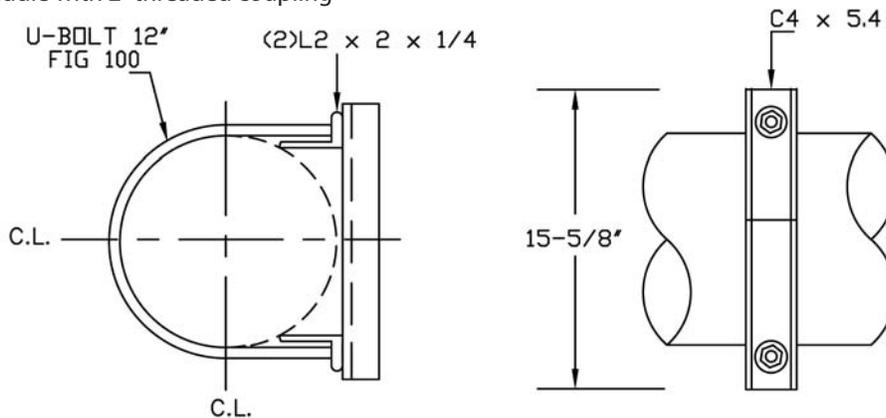


IS-665S

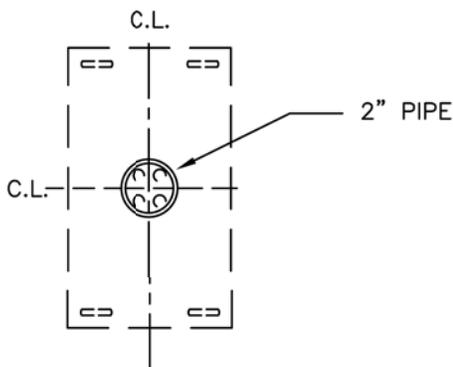
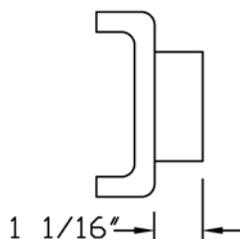
12" Dia. Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt saddle with 2" threaded coupling



12" LINE



Design, PT&P 9/20/1999 9:11 AM IS-38

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-665S (12" DIA. HORZ. OR VERT. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT SADDLE W/2"
 THREADED COUPLING FOR 12" DIA. HORIZONTAL OR
 VERTICAL PIPE.

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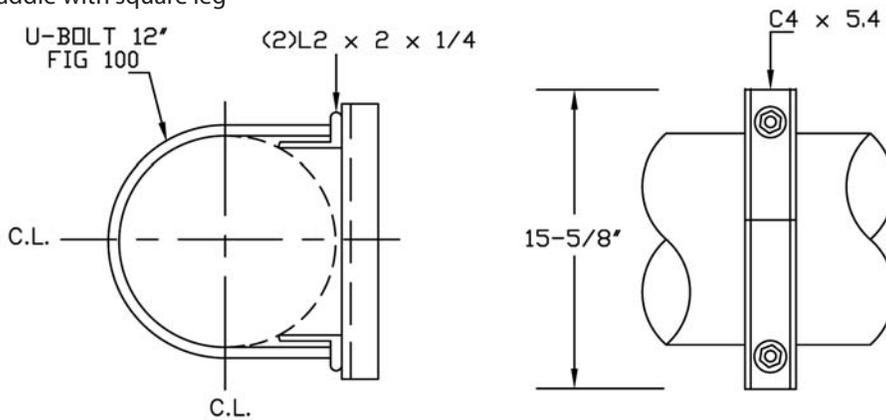


IS-665

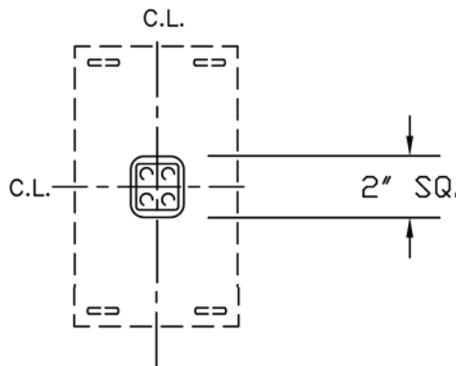
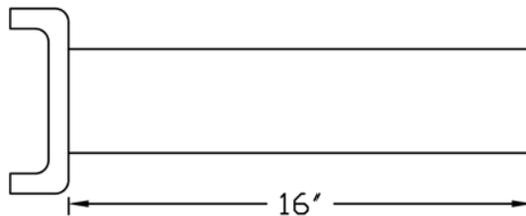
12" Dia. Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt saddle with square leg



12" LINE



Design, PT&P 9/20/1999 10:21 AM IS-39

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-665 (12" DIA. HORZ. OR VERT. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT MOUNT SADDLE W/SQ.
 LEG FOR 12" DIA. HORIZONTAL OR VERTICAL PIPE.

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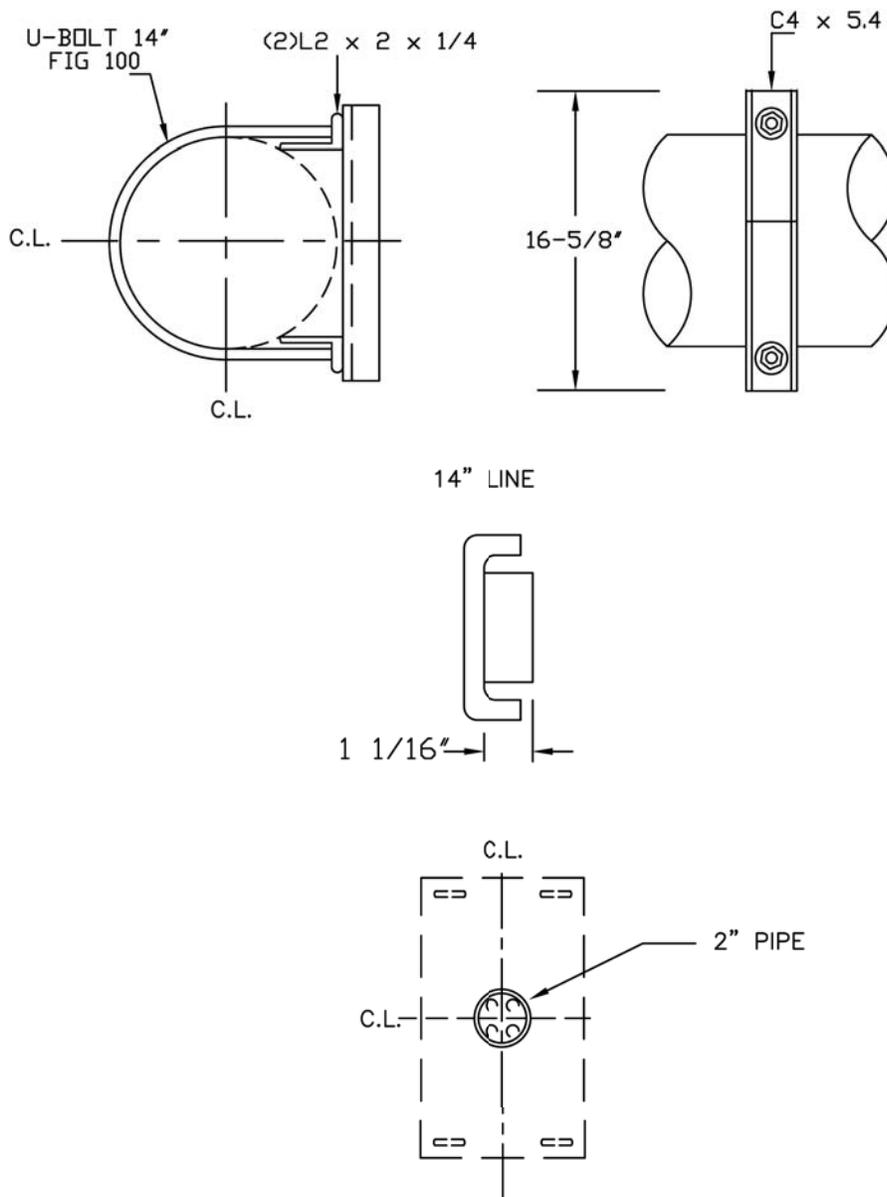


IS-665S

14" Dia. Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt saddle with 2" threaded coupling



Design, PT&P 9/20/1999 9:11 AM IS-38

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-665S (14" DIA. HORZ. OR VERT. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT SADDLE W/2"
 THREADED COUPLING FOR 14" DIA. HORIZONTAL OR
 VERTICAL PIPE.

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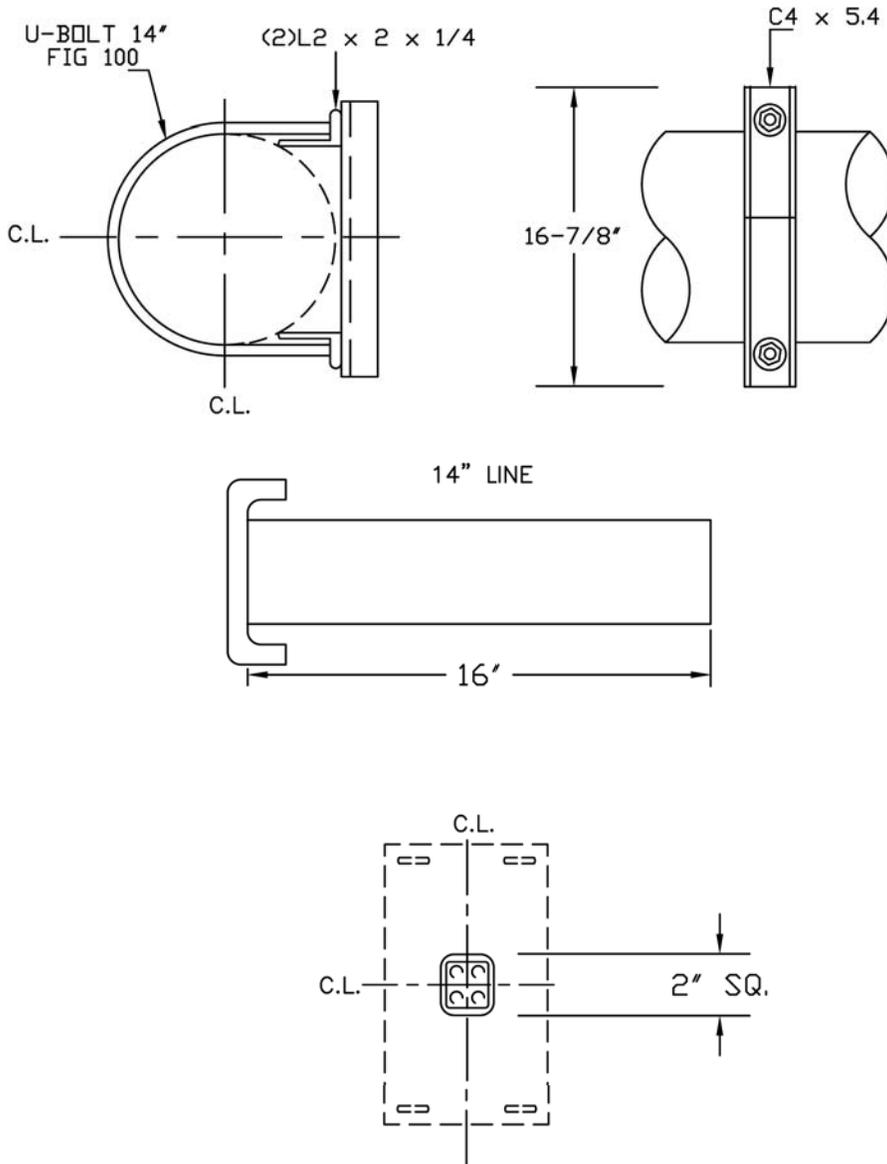


IS-665

14" Dia. Horizontal or Vertical Line

Primary Instrument Support Module, Prefab, Single Instrument Stand

U-Bolt saddle with square leg



Design, PT&P 9/20/1999 10:21 AM IS-39

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-665 (14" DIA. HORZ. OR VERT. LINE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, U-BOLT MOUNT SADDLE W/SQ.
 LEG FOR 14" DIA. HORIZONTAL OR VERTICAL PIPE.

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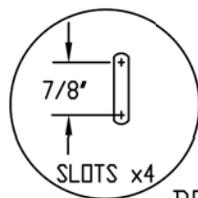
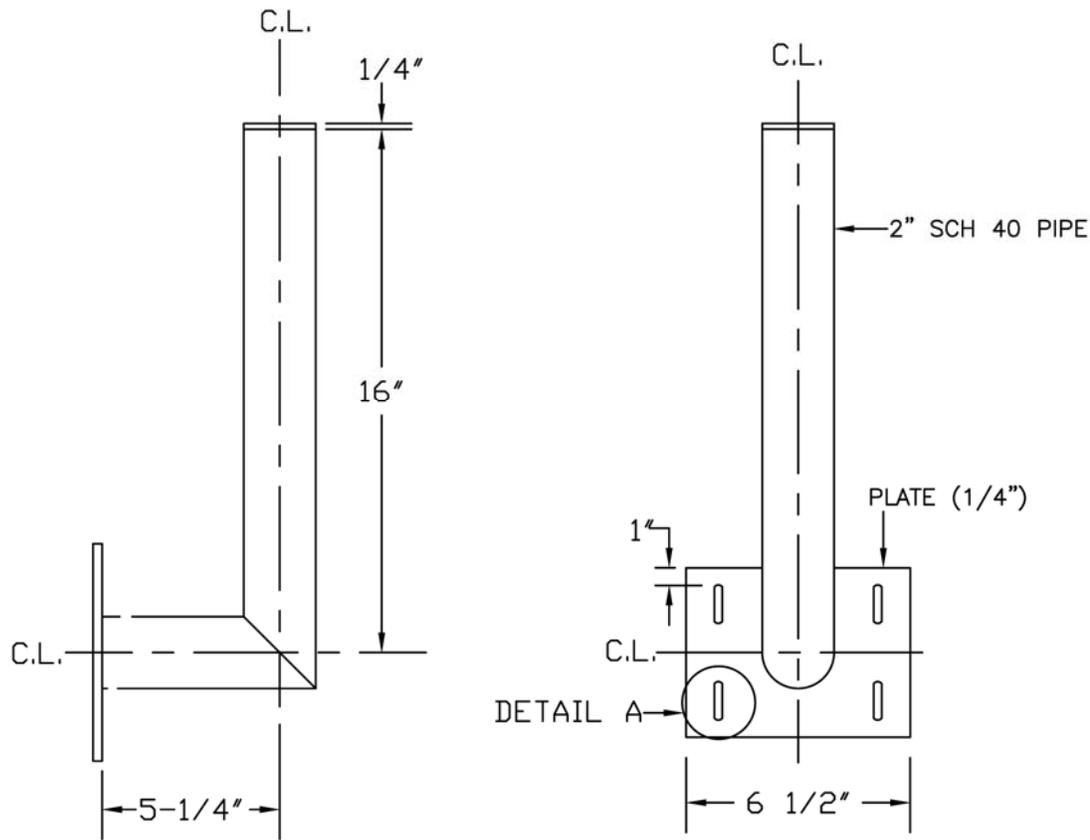


IS-700

2" Dia. Sch. 40 Pipe

Primary Instrument Support Module, Prefab, Single Instrument Stand

Wall mount with right angle pipe extension



DETAIL A

Design, PT&P 9/20/1999 10:27 AM IS-40

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-700 (2" DIA. SCH. 40 PIPE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT, WALL MOUNT SUPPORT MODULE
 W/RIGHT ANGLE PIPE EXTENSION.

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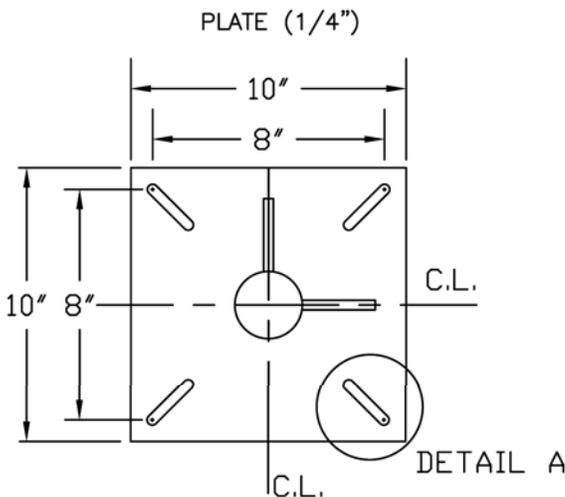
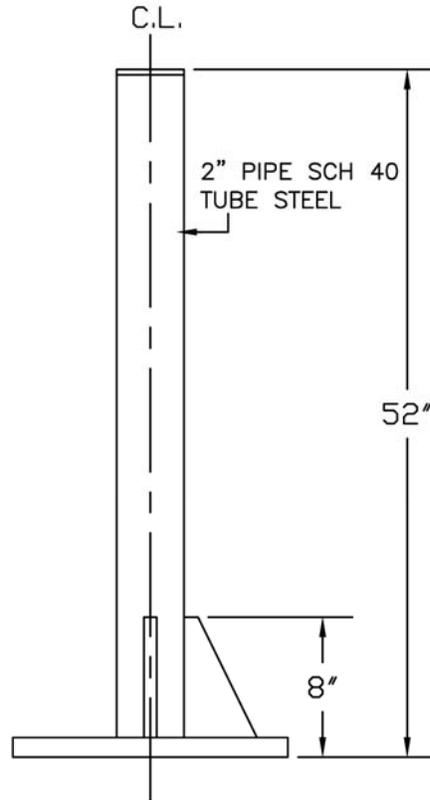




IS-600

2" Pipe Module

Primary Instrument Support Module, Prefab, Single Instrument Stand
 Floor mount, 52" long, sch. 40 carbon steel



DETAIL A

Design, PT&P 9/20/1999 10:41 AM IS-41

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-600 (2" PIPE MODULE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT STAND, 2" PIPE MODULE, FLOOR
 MOUNT, 52" LONG, SCH 40 CARBON STEEL.

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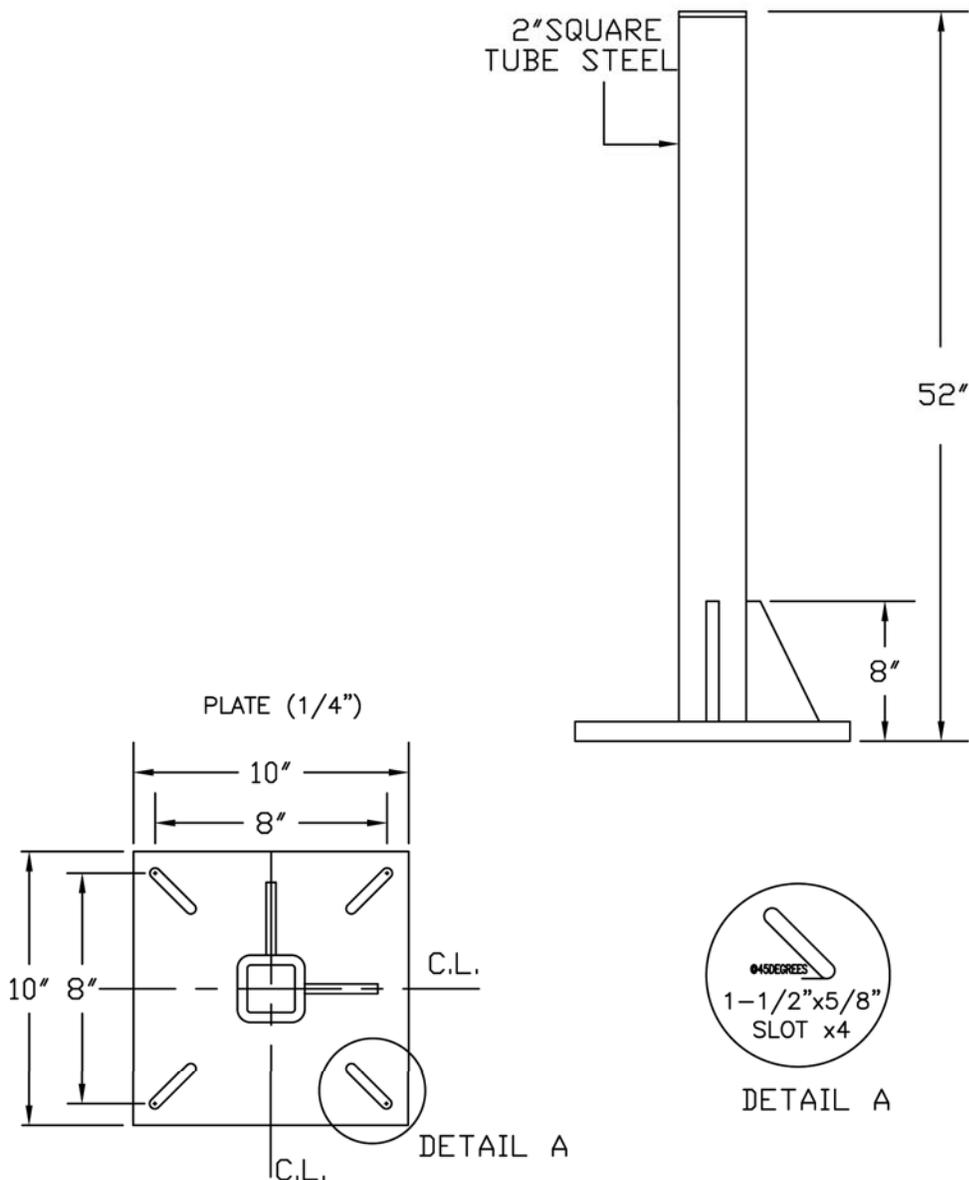


IS-710

2" Square Leg Module

Primary Instrument Support Module, Prefab, Single Instrument Stand

Floor mount, 52" long, sch. 40 carbon steel



Design, PT&P 9/20/1999 10:45 AM IS-42

CLIENT NAME: _____

PROJECT NAME: _____

REQUISITION#: _____

PT&P JOB#: _____ ITEM#: _____

P.O.#: _____

DWG#: _____

REV#: _____

MARK#: _____

FINISH: _____

DATE#: _____

FIGURE#: IS-710 (2" SQ. LEG MODULE)

DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB, SINGLE INSTRUMENT STAND, 2" SQ. LEG MODULE, FLOOR MOUNT, 52" LONG, SCH 40 CARBON STEEL.

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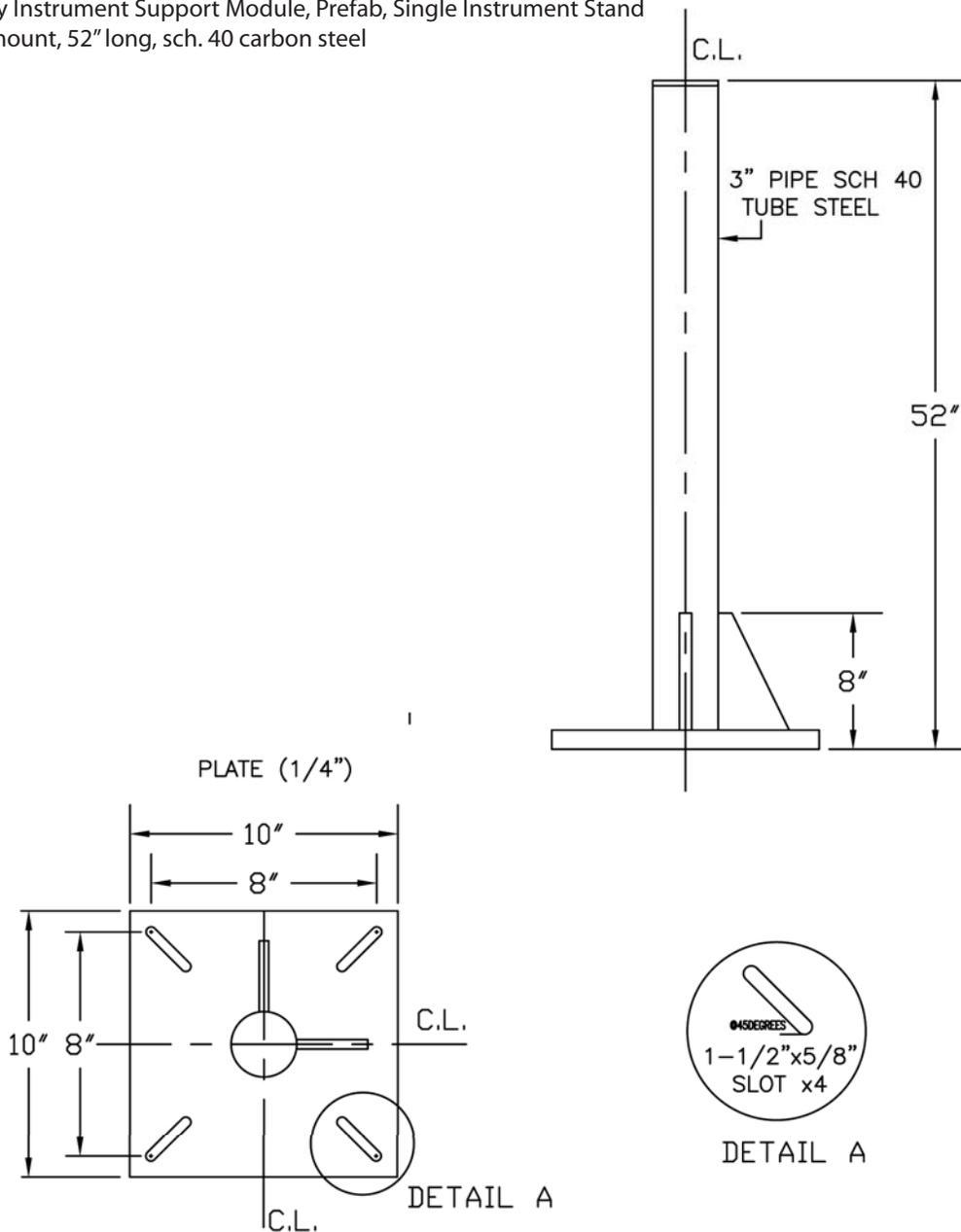




IS-600

3" Pipe Module

Primary Instrument Support Module, Prefab, Single Instrument Stand
 Floor mount, 52" long, sch. 40 carbon steel



Design, PT&P 9/20/1999 10:53 AM IS-43

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-600 (3" PIPE MODULE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT STAND, 3" PIPE MODULE, FLOOR
 MOUNT, 52" LONG, SCH 40 CARBON STEEL.

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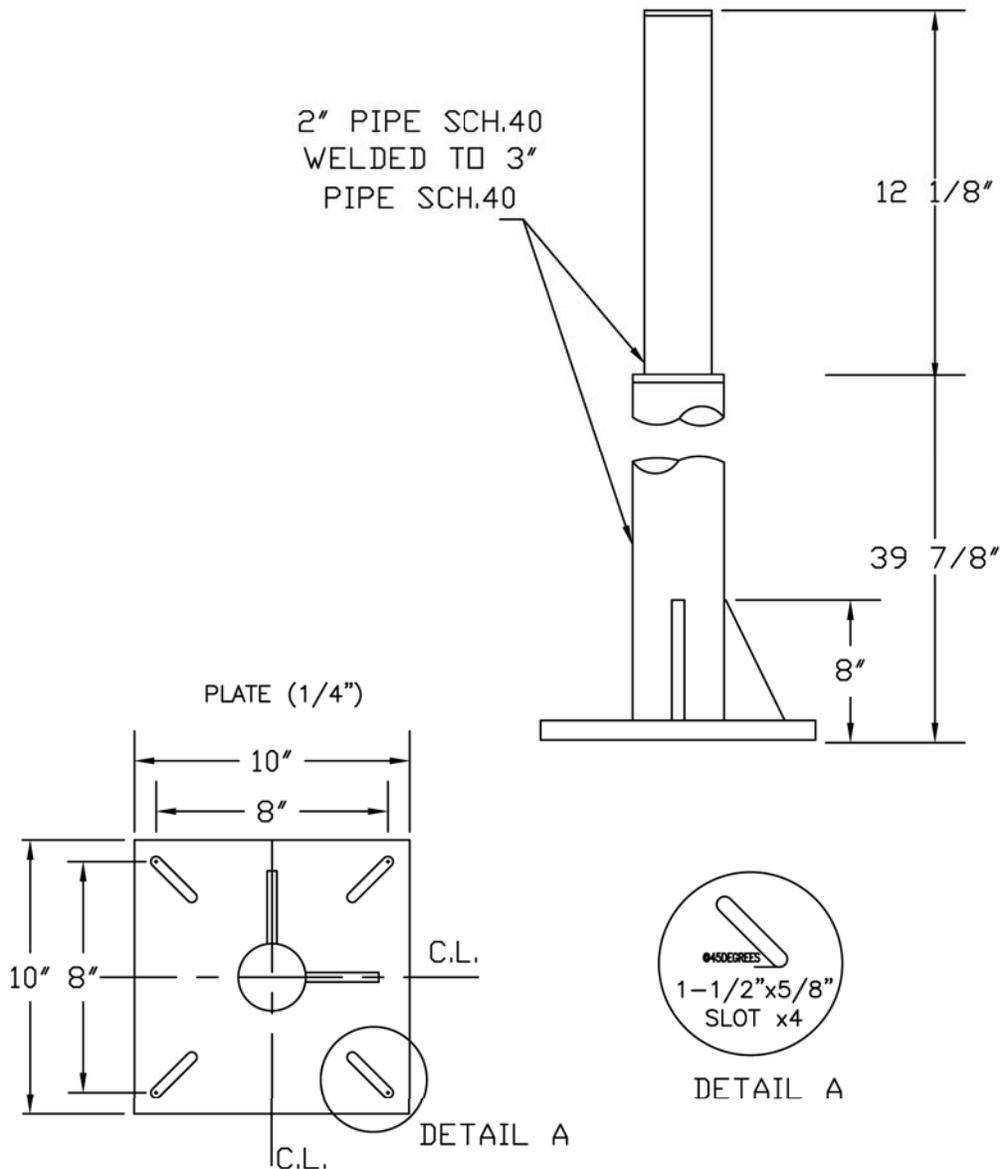




IS-710S

3" Pipe Module

Primary Instrument Support Module, Prefab, Single Instrument Stand
Floor mount with 2" end sect., 52" long, sch. 40 carbon steel



Design, PT&P 9/20/1999 11:25 AM IS-44

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-710S (3" PIPE MODULE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 SINGLE INSTRUMENT STAND, 3" PIPE MODULE, FLOOR
 MOUNT, W/2" END SECT., 52" LONG, SCH 40
 CARBON STEEL.

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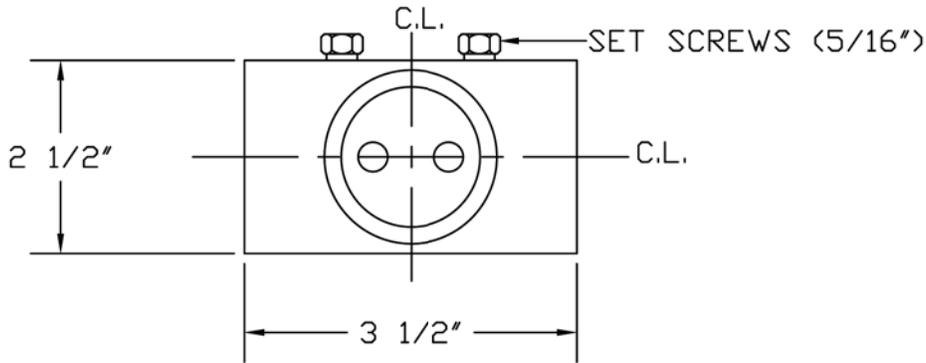
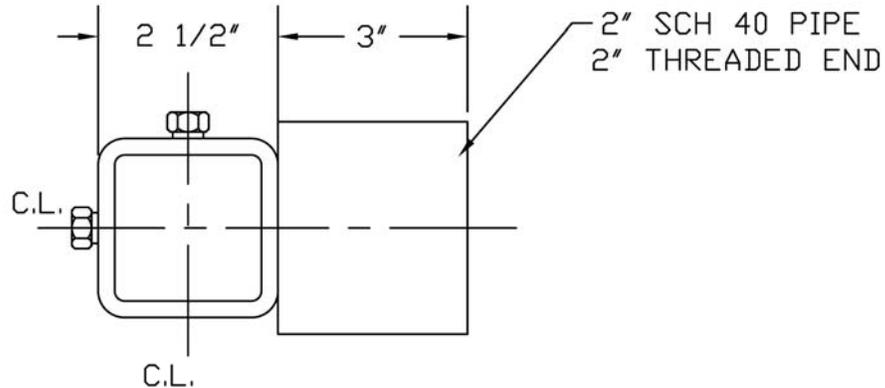
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IS-720

2-1/2" Square Leg / 2" Pipe
 Secondary Instrument Support Module
 Adapter square leg to thd 2" pipe 3" long



Design, PT&P 9/20/1999 11:36 AM IS-46

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-720 (2 1/2" SQ. LEG / 2" PIPE)
 DESCRIPTION: SECONDARY INSTRUMENT SUPPORT MODULE, PREFAB,
 ADAPTER SQ. LEG TO THD 2" PIPE 3" LONG.

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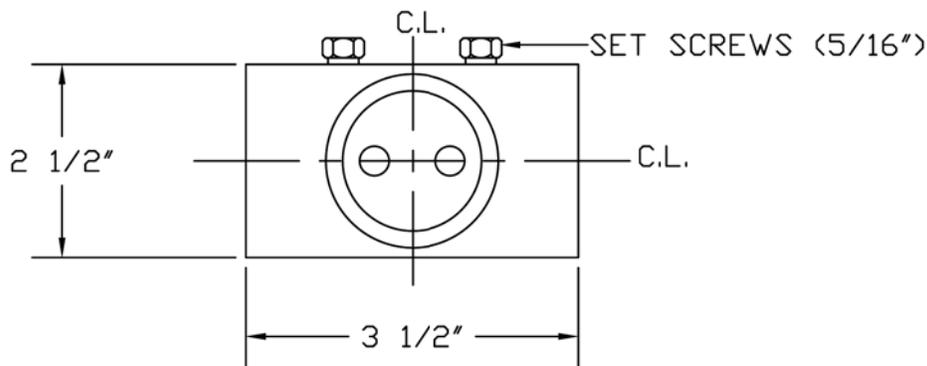
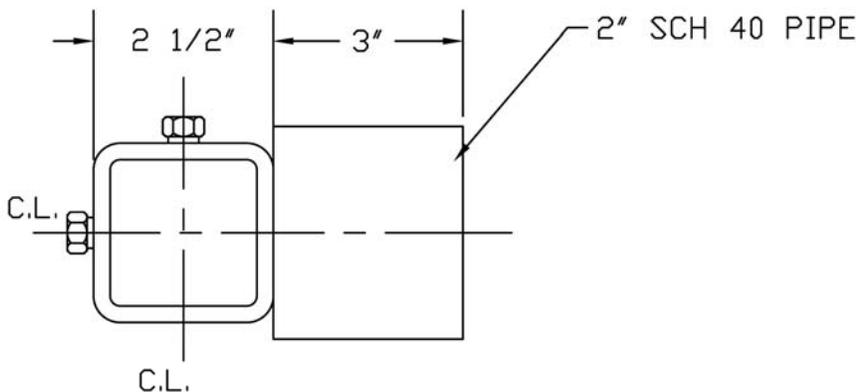
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IS-720

2-1/2" Square Leg / 2" Pipe
Secondary Instrument Support Module
Adapter square leg to plain end 2" pipe 3" long



Design, PT&P 9/20/1999 11:06 AM IS-46

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-720 (2 1/2" SQ. LEG / 2" PIPE)
 DESCRIPTION: SECONDARY INSTRUMENT SUPPORT MODULE, PREFAB,
 ADAPTER SQ. LEG TO PLAIN END 2" PIPE 3" LONG.

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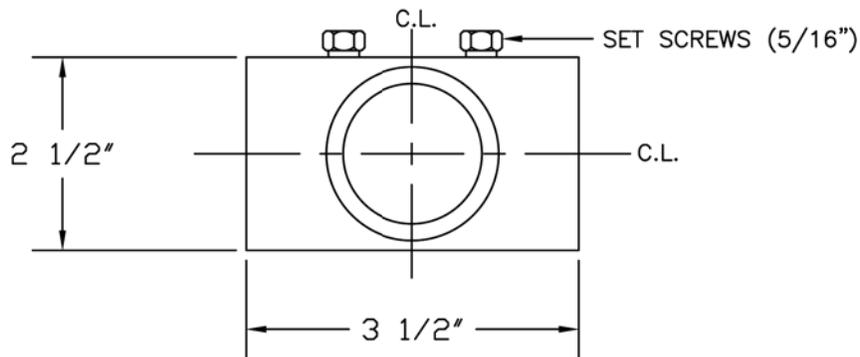
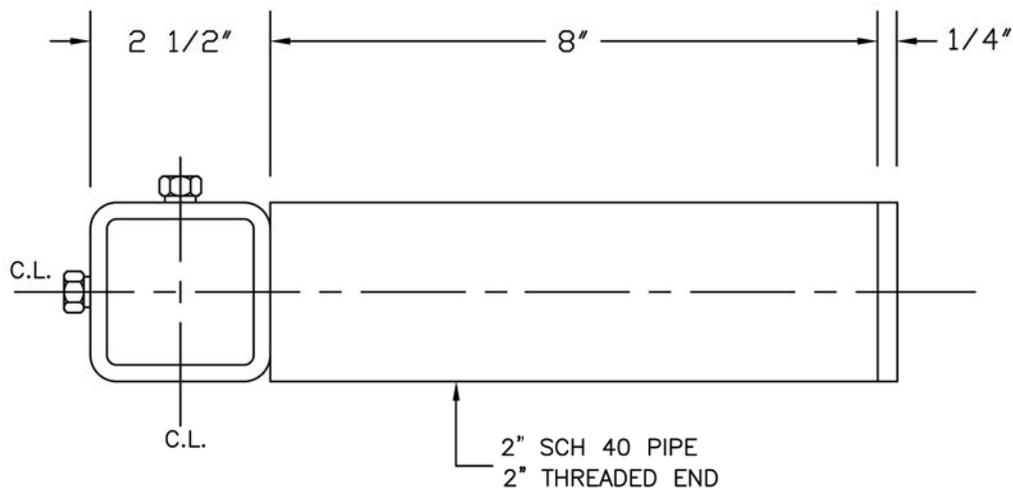


IS-650

2-1/2" Square Leg / 2" Pipe / Thd. End

Secondary Instrument Support Module

Adapter square leg to thd 2" pipe 8" long



Design, PT&P 9/20/1999 1:09 PM IS-48

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-650 (2 1/2" SQ. LEG / 2" PIPE/THD.END)
 DESCRIPTION: SECONDARY INSTRUMENT SUPPORT MODULE, PREFAB,
 ADAPTER SQ. LEG TO PLAIN END 2" PIPE 8" LONG.

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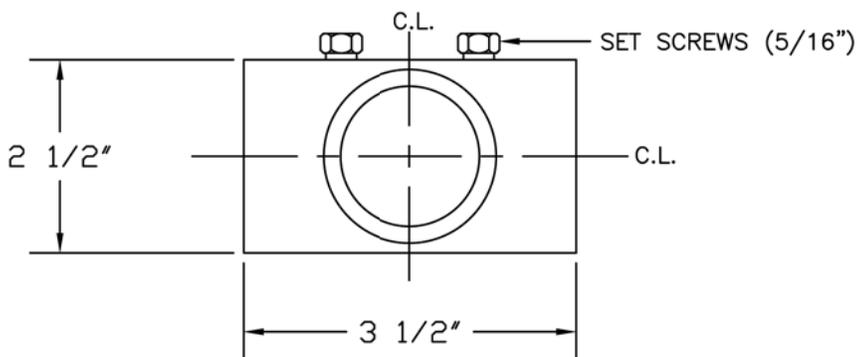
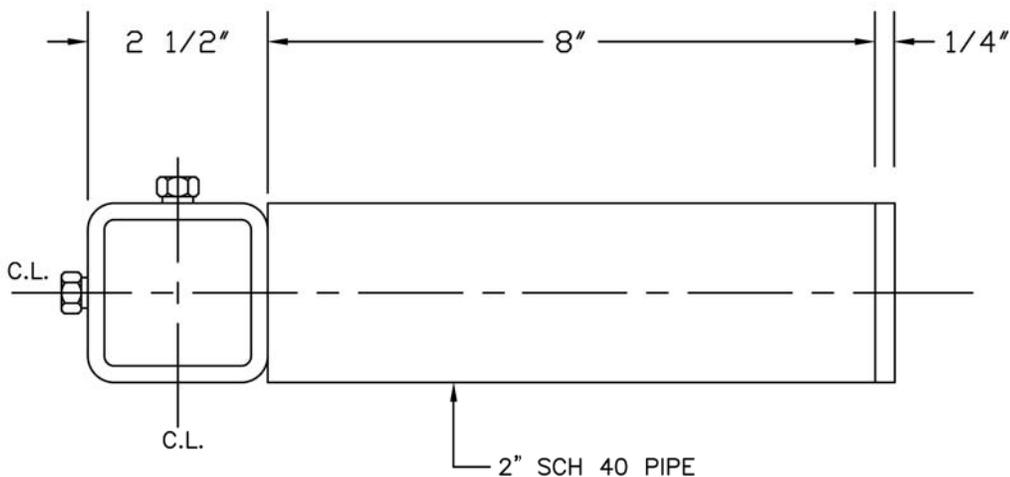
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IS-650

2-1/2" Square Leg / 2" Pipe
Secondary Instrument Support Module
Adapter square leg to plain end 2" pipe 8" long



Design, PT&P 9/20/1999 1:09 PM IS-48

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-650 (2 1/2" SQ. LEG / 2" PIPE)
 DESCRIPTION: SECONDARY INSTRUMENT SUPPORT MODULE, PREFAB,
 ADAPTER SQ. LEG TO PLAIN END 2" PIPE 8" LONG.

PIPING TECHNOLOGY & PRODUCTS, INC.

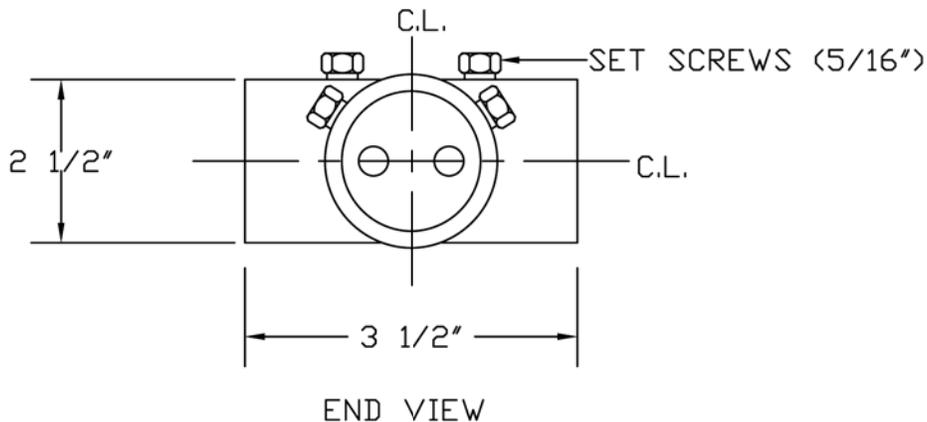
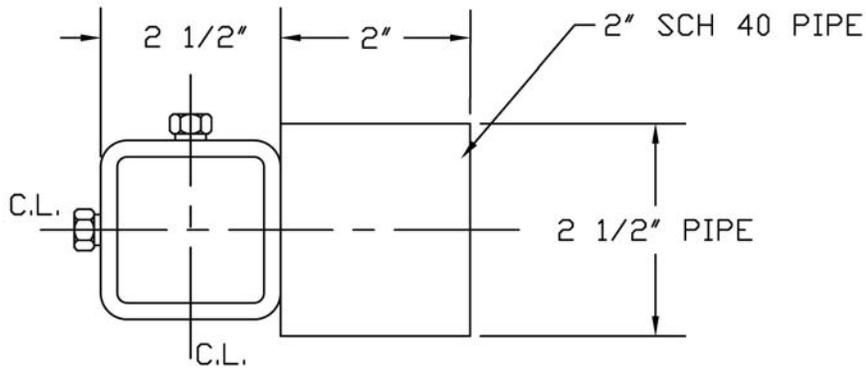
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IS-670

2-1/2" Square Leg / 2-1/2" Pipe
 Secondary Instrument Support Module
 Adapter square leg to thd 2" pipe



Design, PT&P 9/20/1999 1:14 PM IS-49

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-670 (2" 1/2" SQ. LEG / 2 1/2" PIPE)
 DESCRIPTION: SECONDARY INSTRUMENT SUPPORT MODULE, PREFAB,
 ADAPTER SQ. LEG TO THD 2" PIPE.

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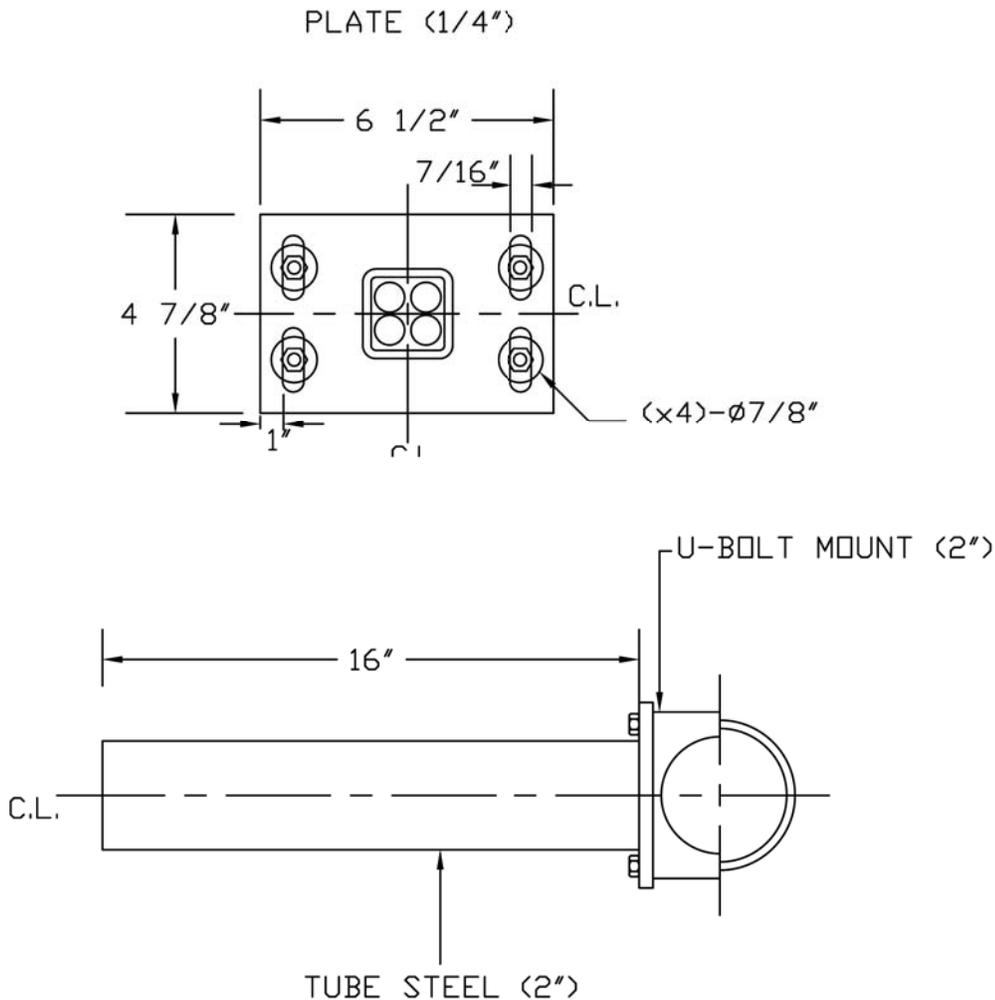


IS-690

2" U-Bolt

Secondary Instrument Support Module

Square leg extension 16" long with 2" u-bolt mount



Design, PT&P 9/20/1999 1:19 PM IS-50

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-690 (2" U-BOLT)
 DESCRIPTION: SECONDARY INSTRUMENT SUPPORT MODULE, SQ. LEG
 EXTENSION 16" LONG W/2" U-BOLT MOUNT.

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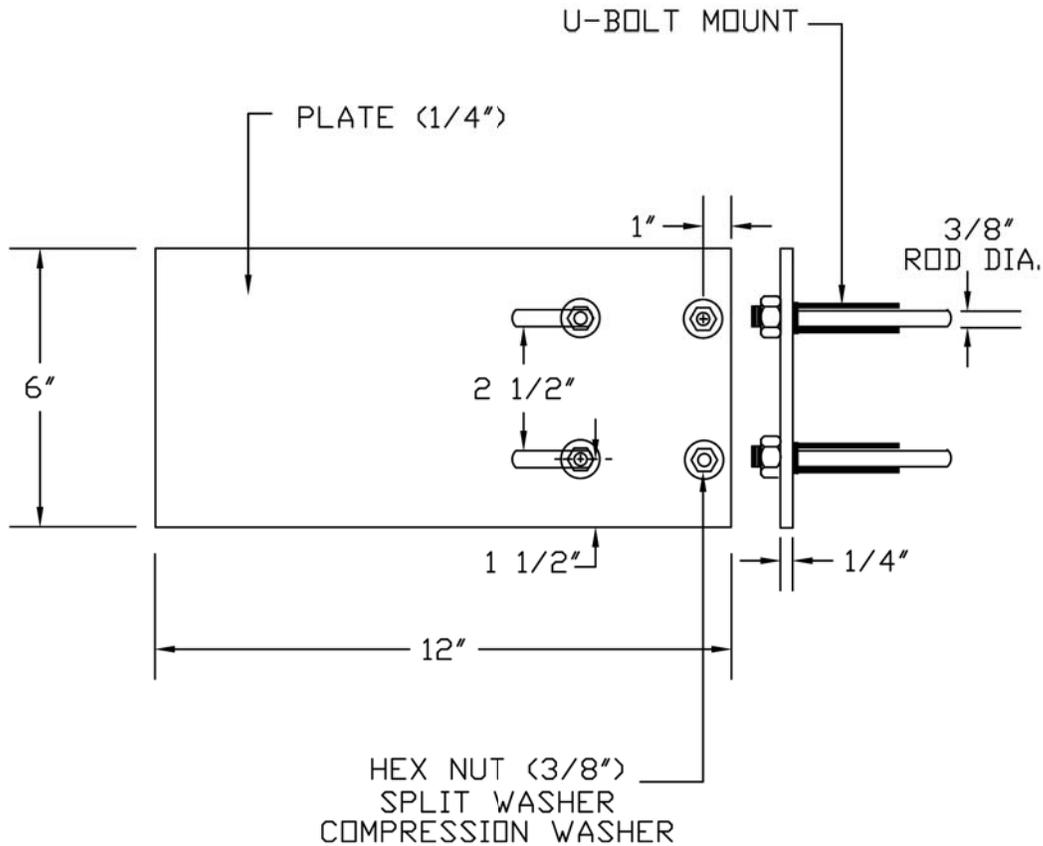


IS-740

2" U-Bolt Mount

Secondary Instrument Support Module

Flag with 2" u-bolt mount



Design, PT&P 9/20/1999 1:23 PM IS-51

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-740 (2" U-BOLT MOUNT)
 DESCRIPTION: SECONDARY INSTRUMENT SUPPORT MODULE, FLAG
 W/2" U-BOLT MOUNT.

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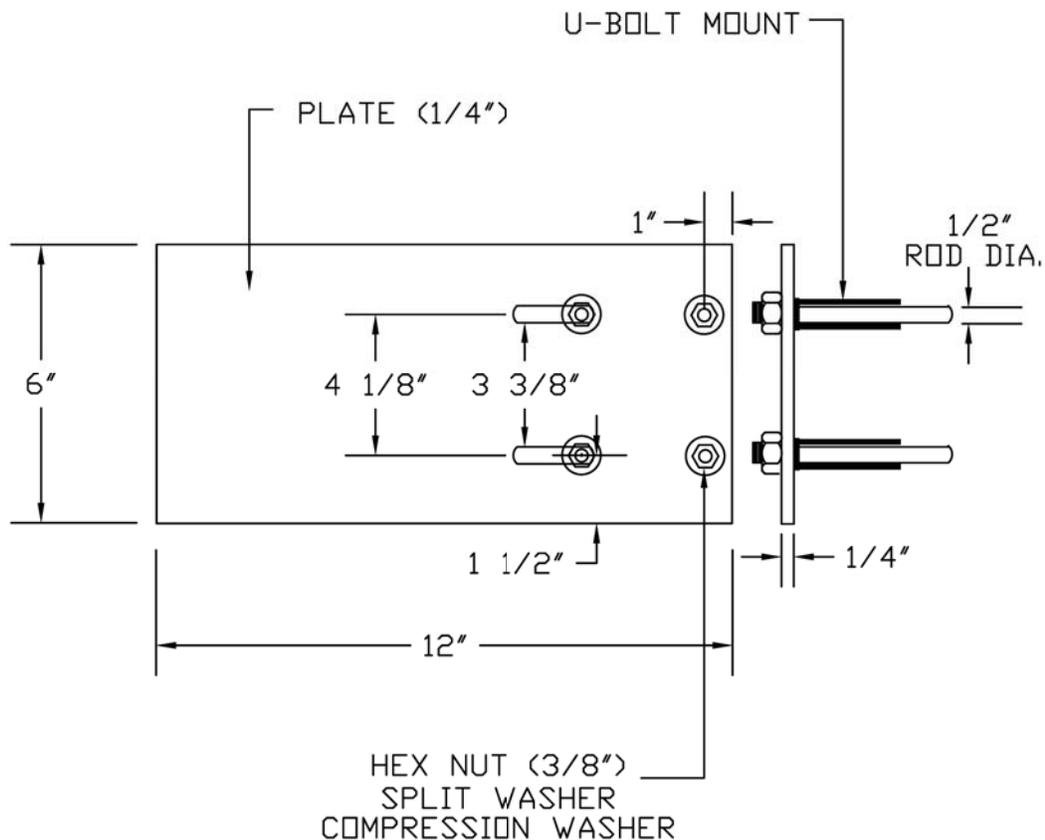


IS-680

3" U-Bolt Mount

Secondary Instrument Support Module

Flag with 3" u-bolt mount



Design, PT&P 9/20/1999 1:26 PM IS-52

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-680 (3" U-BOLT MOUNT)
 DESCRIPTION: SECONDARY INSTRUMENT SUPPORT MODULE, FLAG
 W/3" U-BOLT MOUNT.

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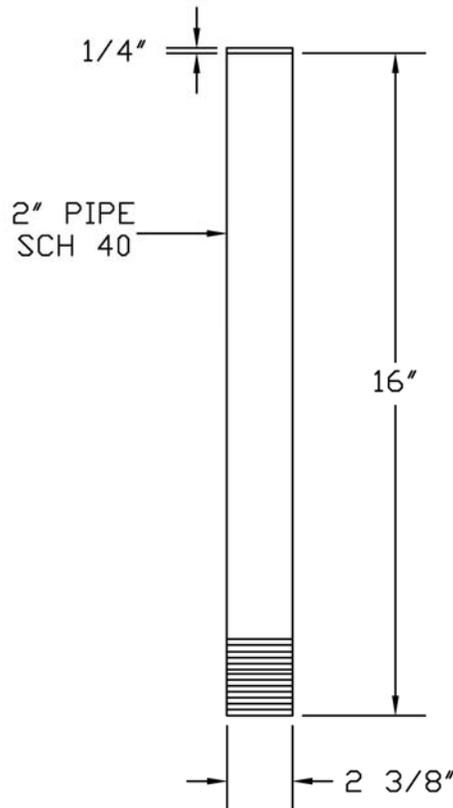


IS-750

2" Pipe

Secondary Instrument Support Module

2" pipe 16" long thd. one end



Design, PT&P 9/20/1999 1:31 PM IS-53

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-750 (2" PIPE)
 DESCRIPTION: SECONDARY INSTRUMENT SUPPORT MODULE, 2" PIPE
 16" LONG THD ONE END.

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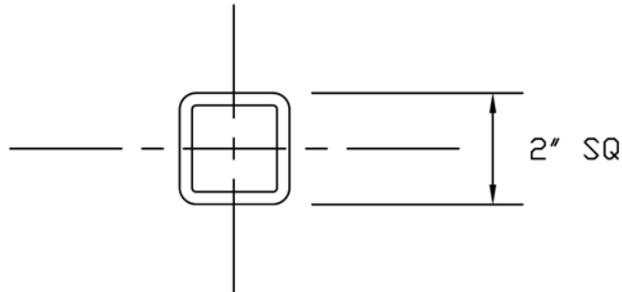
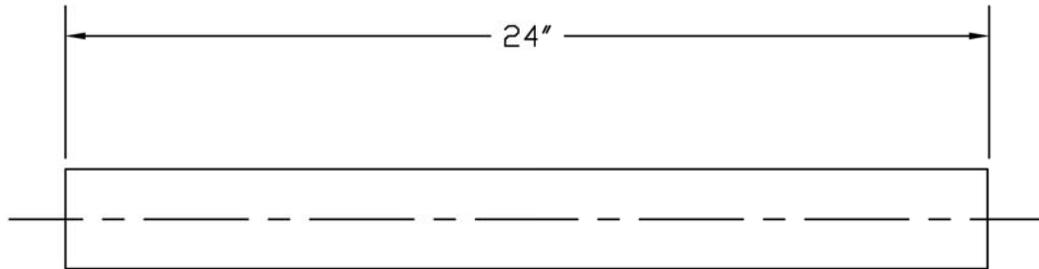


IS-780

2" Square

Secondary Instrument Support Module

Square leg 24" long



Design, PT&P 9/20/1999 1:34 PM IS-54

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-780 (2" SQ.)
 DESCRIPTION: SECONDARY INSTRUMENT SUPPORT MODULE, SQ. LEG
 24" LONG.

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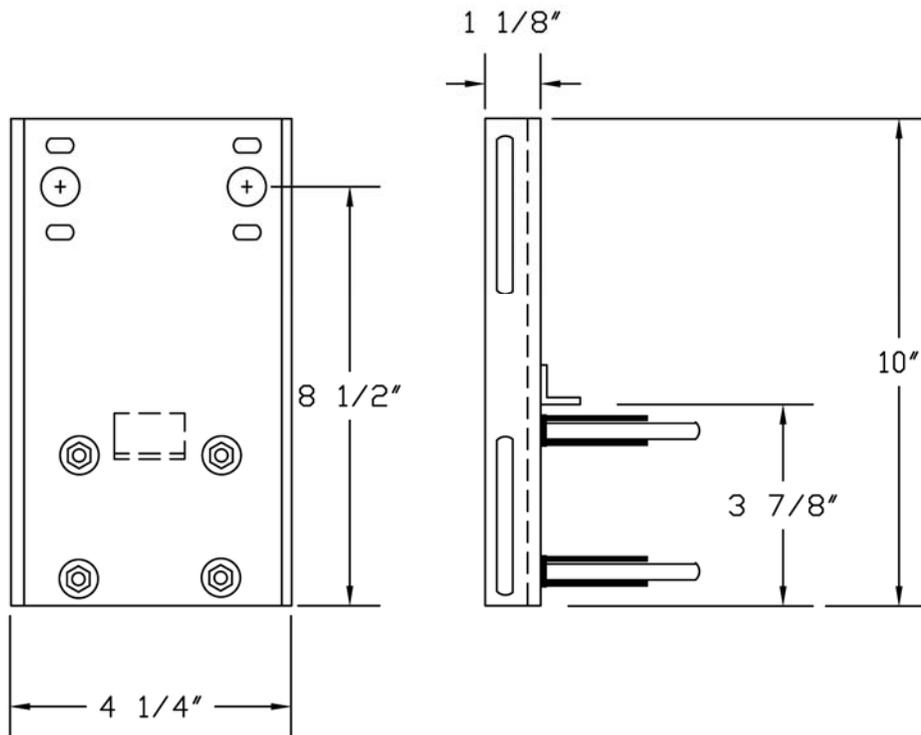


IS-770

2" U-Bolt Mount

Secondary Instrument Support Module

Manifold mount with 2" u-bolt mount, 10" long



Design, PT&P 9/20/1999 1:38 PM IS-55

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-770 (2" U-BOLT MOUNT)
 DESCRIPTION: SECONDARY INSTRUMENT SUPPORT MODULE,
 MANIFOLD MOUNT W/2" U-BOLT MOUNT, 10" LONG.

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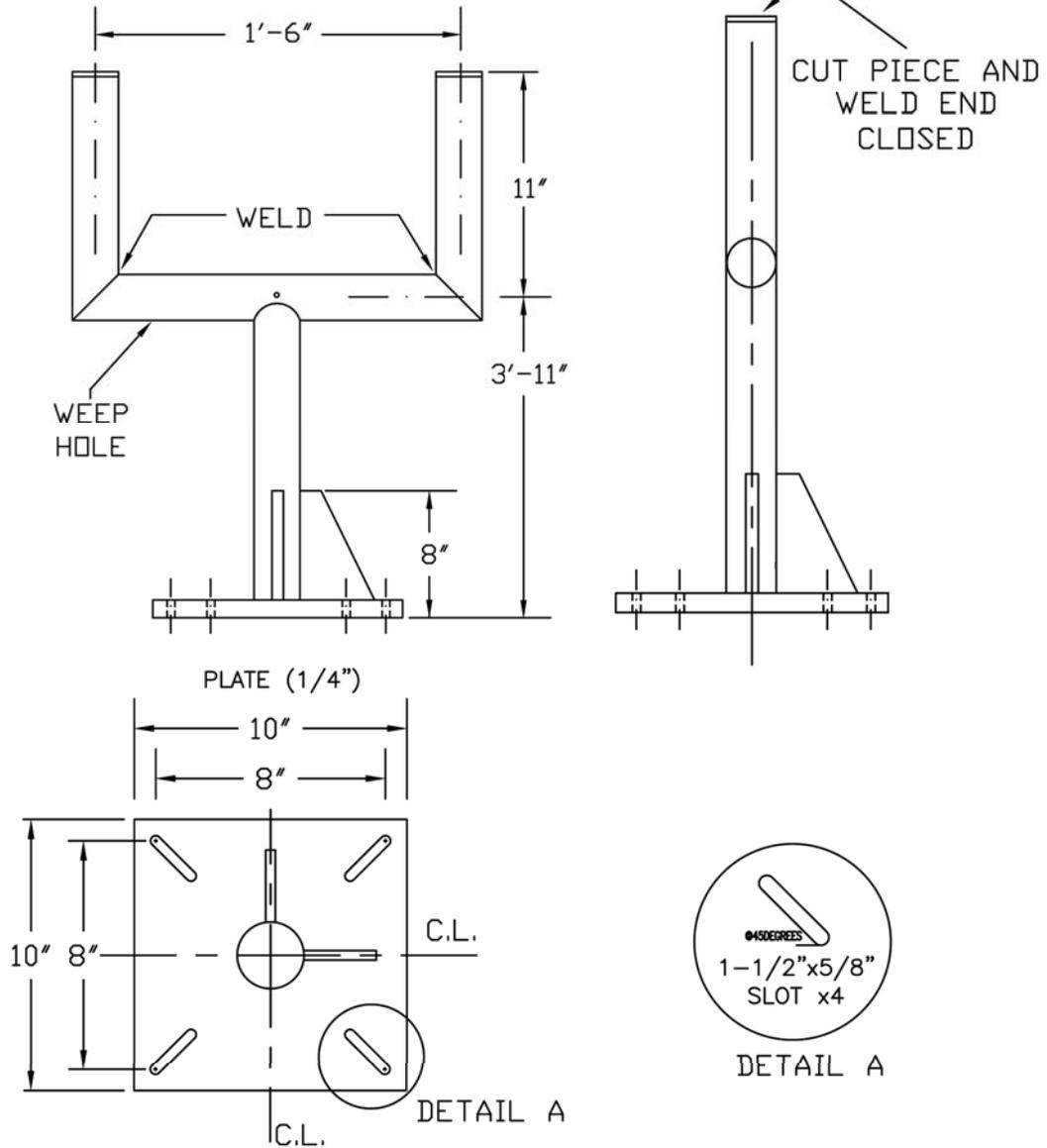




IS-756

2" Pipe Module

Primary Instrument Support Module, Prefab, Dual Instrument Stand
Floor mount, 58" long, sch. 40 carbon steel



Design, PT&P 9/20/1999 1:49 PM IS-57

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-756 (2" PIPE MODULE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 TRIPLE INSTRUMENT STAND, 2" PIPE MODULE, FLOOR
 MOUNT, 58" LONG, SCH 40 CARBON STEEL.

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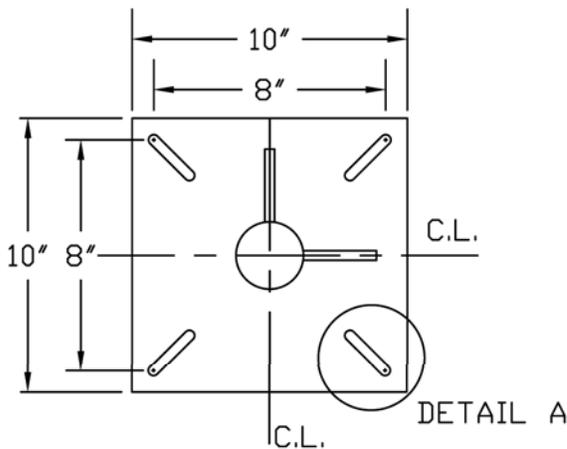
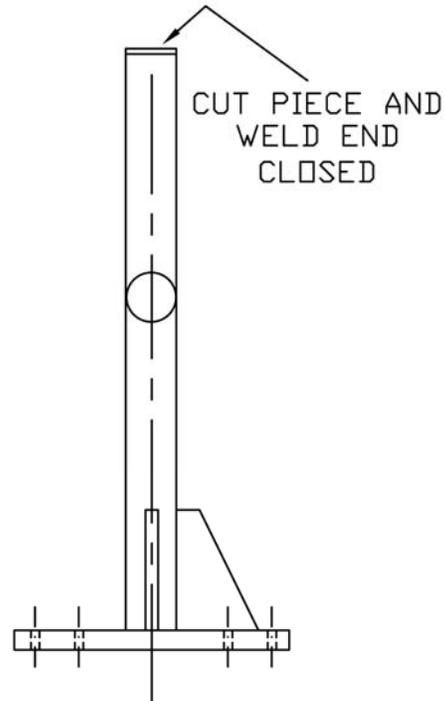
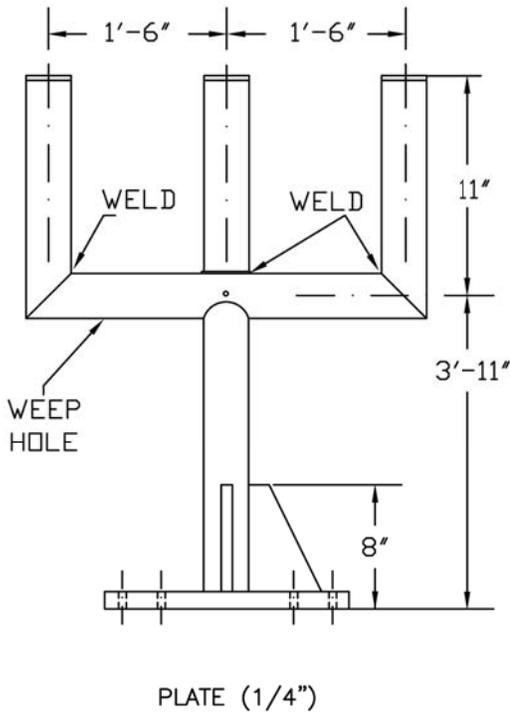




IS-757

2" Pipe Module

Primary Instrument Support Module, Prefab, Dual Instrument Stand
 Floor mount, 58" long, sch. 40 carbon steel



Design, PT&P 9/20/1999 1:49 PM IS-57

CLIENT NAME: _____
 PROJECT NAME: _____
 REQUISITION#: _____
 PT&P JOB#: _____ ITEM#: _____
 P.O.#: _____
 DWG#: _____
 REV#: _____
 MARK#: _____
 FINISH: _____
 DATE#: _____

FIGURE#: IS-757 (2" PIPE MODULE)
 DESCRIPTION: PRIMARY INSTRUMENT SUPPORT MODULE, PREFAB,
 TRIPLE INSTRUMENT STAND, 2" PIPE MODULE, FLOOR
 MOUNT, 58" LONG, SCH 40 CARBON STEEL.

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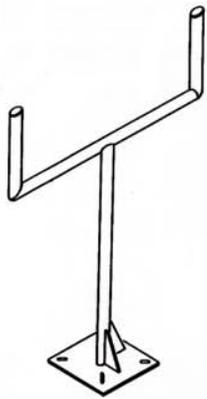
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Instrument Supports Catalog



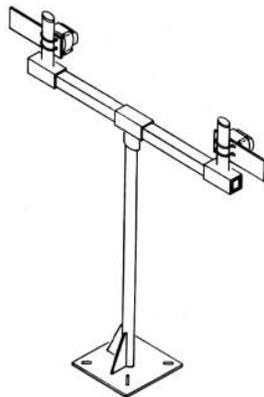
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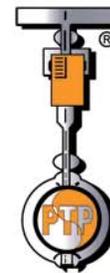
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Toll-Free:

1-800-787-5914

Local Phone:

+1-713-731-0030

Fax:

+1-713-731-8640

E-Mail:

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