

INSTALLATION MANUAL



ISO 9001: 2000 Registered

LITERATURE PART #5.95.0000.000*

Revision date: August 2014

* include with all SuperTitan Towers



Building the Global Communications Infrastructure

21 South Field Drive, Elmira, Ontario, N3B 0A6 - Tel: (519)-669-5421 - Fax: (519)-669-8912
Website: www.trylon.com

NEW SUPERTITAN PACKAGING

Trylon TSF and the Stock Products group are proud to announce a major innovation for our SuperTitan Tower packaging. Trylon will no longer use wood crates to package SuperTitan sections 1 - 12HD, and their corresponding foundations. Instead the section's tower legs will be used to create a metal crate, pictured above (Patent Pending).



Within the tower legs all of the diagonals and sectional hardware will be nested. Steel end-caps are used seal the ends of the sections. This packaging, which will be fully implemented over the next few months, has been rigorously tested to ensure durability and strength in transport and will protect against the potential for a loss of section parts/hardware. During testing the new self-contained packaging vastly outperformed the existing wood crate.

This improved form of packaging will provide the customer with a product where the packaging material is up to 95.5% lighter and uses 72% less space in shipping (comparison photos can be seen below). This results in lowered freight costs and a cost savings to our end customers. This lowered freight also represents a reduced carbon footprint associated with shipping the tower material. An additional “Green” benefit is the reduction of waste on site. Empty crates no longer need to be disposed of as the Steel end-caps can be easily collected and recycled.

Trylon is extremely proud of our Packaging team for developing an innovative solution. We hope you the customer enjoy the environmental & cost benefits from the new design.

SuperTitan Unpacking Manual:

Step 1: Place SuperTitan section on flat, sturdy surface. Check section for any signs of damage.



Step 2: Disassemble the bolt connection that is connecting the end-cap to the top section leg.



Step 3: Remove Leg, exposing the section's hardware on the inside.



Step 4: Carefully remove the section's hardware, taking care to ensure all parts are accounted for.



Step 5: Disassemble the remaining bolt connections, and separate the section legs from the end-cap.



Step 6: Review SuperTitan Installation Manual, Part Number 5.95.0000.000.



Step 7: Recycle End-Cap and Bolt Assemblies.





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SuperTitan Manual Update:

Dear Customer;

Thank you for purchasing one of our SuperTitan Towers! Welcome to the Trylon family, we hope that you enjoy your tower purchase and that this tower meets your expectations of a high quality product. Ensuring quality in our products is something that Trylon always strive to achieve and we believe that it shows.

One of the ways we want to help you the customer is to indicate some updates to our product that are not yet shown in our manual. Please review the below update notes:

- 1) FOR PAGES 28-41(Dwg#1.620.014-1.620.0029): Sections 2F-13FHD will now have an additional hole on both sides of the angle at the bottom of the leg. This additional hole has been added to facilitate Trylon's NEW SuperTitan Packaging method. The addition of these two holes does not in any way affect the structural integrity of the leg.

- 2) FOR PAGES 17-25(Dwg#1.620.0058-1.620.0066): For Sections #13-21, all diagonal members now have two bolt holes at either end of the member. This change has been made to allow for easier installation. The addition of the second hole does not affect the diagonal's structural integrity.

If you ever have a question regarding the above or your tower in general please feel free to call our office at (519) 669-5421 or email info@trylon.com and ask for a representative from the Stock Products Team. We will gladly answer any questions you may have.

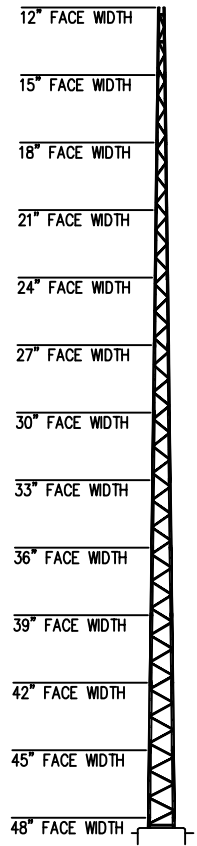
Thanks for taking the time to review and we hope you enjoy your tower.

Sincerely

The Stock Products Team
Trylon TSF

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| SECT No | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|--|---------------------------|---|---|---|---|---|---|---|---|----|----|----|
| KNOCKDOWN TOWER HEIGHT AND KIT NUMBER | 120' TOWER #5.94.0100.120 | | | | | | | | | | | |
| | 110' TOWER #5.94.0100.110 | | | | | | | | | | | |
| | 100' TOWER #5.94.0100.100 | | | | | | | | | | | |
| | 90' TOWER #5.94.0100.090 | | | | | | | | | | | |
| | 80' TOWER #5.94.0100.080 | | | | | | | | | | | |
| | 70' TOWER #5.94.0100.070 | | | | | | | | | | | |
| | 60' TOWER #5.94.0100.060 | | | | | | | | | | | |
| | 50' TOWER #5.94.0100.050 | | | | | | | | | | | |
| | 40' TOWER #5.94.0100.040 | | | | | | | | | | | |
| | 30' TOWER #5.94.0100.030 | | | | | | | | | | | |
| | 20' TWR #5.94.0100.020 | | | | | | | | | | | |

| SECT No | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|--|---------------------------|---|---|---|---|---|---|---|---|----|----|----|
| PRE-ASSEMBLED TOWER HEIGHT AND KIT NUMBER | 120' TOWER #5.95.0100.120 | | | | | | | | | | | |
| | 110' TOWER #5.95.0100.110 | | | | | | | | | | | |
| | 100' TOWER #5.95.0100.100 | | | | | | | | | | | |
| | 90' TOWER #5.95.0100.090 | | | | | | | | | | | |
| | 80' TOWER #5.95.0100.080 | | | | | | | | | | | |
| | 70' TOWER #5.95.0100.070 | | | | | | | | | | | |
| | 60' TOWER #5.95.0100.060 | | | | | | | | | | | |
| | 50' TOWER #5.95.0100.050 | | | | | | | | | | | |
| | 40' TOWER #5.95.0100.040 | | | | | | | | | | | |
| | 30' TOWER #5.95.0100.030 | | | | | | | | | | | |
| | 20' TWR #5.95.0100.020 | | | | | | | | | | | |

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SUPERTITAN TOWER INSTRUCTION SHEET

- 1) Check all tower sections for damage before signing the shipping papers.
- 2) ID any material that is damaged or missing, note it on all copies of the shipping papers for future reference. (note: do not attempt to repair damaged members, as this will weaken the structure.)
- 3) Assembly instructions are located in a plastic bag with the hardware.
- 4) Check for proper quantities of hardware. Bolt sizes are noted on the assembly drawings.
- 5) Before erection, check for loose or missing bolts and tighten or replace as required.
- 6) Excavate for concrete base as shown on foundation drawing and install reinforcing bars.
- 7) Assemble 5 foot base section and place in excavation. Top of base leg must be 16" above finished concrete. Plumb tower section with a transit or level.
- 8) Pour concrete and allow to harden for one (1) week.
- 9) Tower may be erected one (1) section at a time by using the gin pole method or by lifting section with a crane. (note: do not attach antenna before tower is erected and all bolts are tightened)
- 10) All tower bolts shall be installed to a snug-tight condition. Snug-tight is defined as the tightness attained by a few impacts of an impact wrench or the full effort of a person using a spud wrench such that all piles of the joint are in firm contact.
- 11) Any a325 bolt ass'y that has been removed after tightening must be replaced.
- 12) All tower bracing and leg splice bolts shall be a325 (unless noted otherwise).
- 13) All a325 bolt assemblies shall be in full bearing.
- 14) Where extra flat washers are used to achieve full bearing, on bracing members, the flat washers shall be installed under the nut.
- 15) Bolt assemblies shall be installed with nuts and washers to the "outside" of the tower (u.N.O.)
- 16) Tower members are identical on all (3) faces (unless noted otherwise).
- 17) Where suffix (*) follows bolt description an additional flat washer is required.
- 18) Do not exceed manufacturer's loading specification.
- 19) Only an experienced installer should carry out the installation.
- 20) Complete tower inspection is recommended every two (2) to three (3) years.

SUPERTITAN TOWER SECTION FIELD ASSEMBLY INSTRUCTIONS.

- 1) Assembly should be undertaken by qualified and experienced personal only.
- 2) To determine the top of a leg, the leg part number is stamped towards the top end of the leg.
- 3) To ensure trueness sections must be assembled on a level surface. Timbers and adjustable jack stands can be used to create an assembly jig for this purpose.
- 4) Assemble one complete face (two legs C/W all bracing) on the jig, leaving bolts hand tight. All bracing should be installed with the heel of the angle towards the top of the section.
- 5) Measure the c/c distance between the top bolt of leg 1 and the bottom bolt of leg 2. Repeat this measurement between top bolt of leg 2 and bottom and bottom bolt of leg 1. Both measurements will be identical if assembly is true. Adjust leg positions until this is achieved and carefully tighten one brace at each end of section. Verify trueness and tighten all bolts fully.
- 6) Install the top two diagonals and the bottom diagonal of the other faces on each leg of the assembled face. Lift leg 3 over the center and connect those six members to it. Install all remaining bracing on both faces leaving bolts hand tight.
- 7) Measure for and achieve trueness of new faces as described in 4) above. Fully tighten all bolts.

NOTES:

SUPERTITAN TOWER INSTRUCTION SHEET

- 1) Erection should be undertaken by qualified and experienced personnel only.
- 2) Prior to erection verify trueness of all sections. (See Supertitan Tower Section Field Assembly Instructions 5) for method). This is an important first step in achieving tower plumb. To skip this step will make it more complicated to correct any problems which may arise during erection.
- 3) Erection can be done lifting one section at a time or lifting assemblies of multiple sections, using a gin pole or a crane. Whatever the chosen method, care must always be taken to achieve and maintain tower plumb throughout the process. Each method presents it's own problems.
- 4) If erection is undertaken in high wind conditions, care must be taken to counter any effect on tower plumb before final splice bolt tightening.
- 5) If erection is undertaken using a gin pole, the effect of the rig (weight and pull direction) on tower plumb must be considered and countered.
- 6) If tower is to be erected in lifts consisting of multiple sections. Lifts must be assembled without introducing bends or twists. Lift assembly must be on a level surface using timber cribbing as needed. With splice bolts brought "snug tight" as defined in 10) of the Supertitan Tower Instruction Sheet.
- 7) When lifting multiple sections care must be taken in choosing slinging method and tie points to avoid introducing any deformations during the lifting process.
- 8) When connecting lifts on the tower splice bolts are first installed hand tight until the lifting line or crane or gin pole rig can be slacked off sufficiently to eliminate any effect on tower plumb. Only then can they be brought to "snug tight" condition.
- 9) Tower plumb should be monitored continuously during erection by observing deflection of each leg using a transit or a theodolite. As soon as a problem is detected the cause should be found and corrected. Before continuing with erection all splices should then be tightened fully, starting at the bottom and moving up. Full tightness is defined in section 10) of Supertitan Tower Instruction Sheet.
- 10) When all sections are installed and tower plumb is confirmed all remaining "snug tight" splice bolts should be fully tightened. Starting with the lowest and moving upwards.
- 11) Once the erection of tower is complete and final, antennas and other accessories can be installed.


SUPERTITAN OVERVIEW

- 1) All towers are triangular in cross section.
- 2) Legs constructed from 350W structural angle formed to 60 degrees.
- 3) Diagonals and horizontals constructed from 350W structural angle.
- 4) Bolts are ASTM-A325.
- 5) All tower components including bolts are hot dipped galvanized.
- 6) The middle of diagonal members are designed to support a climber of maximum 200 pounds.
- 7) Towers are available in pre-assembled sections or knock-down sections.
- 8) Knock-down tower must be professionally assembled with the use of proper assembly jigs.
- 9) Knock-down tower are ideal for large quantity requirements where freight cost is a major factor.
- 10) Tower may be constructed using any sequential portion of the twelve 10-foot sections which comprise this structure. For example, the top 80 feet may be chosen to support a small antenna load or the bottom 80 feet could be selected to support a larger antenna load.
- 11) Please refer to our tower design program to determine the right tower for your requirements.

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Instructions for Tightening of SuperTITAN A325 Grade Bolts Using Turn-of-the-Nut Method

23.5 Turn-of-Nut Tightening

23.5.1

After aligning the holes in a joint, sufficient bolts shall be placed and brought to a snug-tight condition to ensure that the parts of the joint are brought into full contact with each other. "Snug-tight" is the tightness attained by a few impacts of an impact wrench or the full effort of a person using a spud wrench.

23.5.2

Following the initial snugging operation, bolts shall be placed in any remaining open holes and brought to snug-tightness. Re-snugging may be necessary in large joints.

23.5.3

When all bolts are snug-tight, each bolt in the joint shall then be tightened additionally by the applicable amount of relative rotation given in Table 8, with tightening progressing systematically from the most rigid part of the joint to its free edges. During this operation there shall be no rotation of the part not turned by the wrench, unless the bolt and nut are match-marked to enable the amount of relative rotation to be determined.

Table 8
Nut Rotation* from Snug-Tight Condition

| Disposition of outer faces of bolted parts | Bolt length ‡ | Turn |
|---|--|---------------------------------|
| | Both faces normal bolt axis or one face normal to axis and other face sloped 1:20 max. (bevelled washer not used)† | Up to and including 4 diameters |
| Over 4 diameters and not exceeding 8 diameters or 200 mm | | 1/2 |
| Exceeding 8 diameter or 200mm | | 2/3 |
| Both faces sloped 1:20 max. from normal to bolt axis (bevelled washers not used)† | All lengths of bolts | 3/4 |

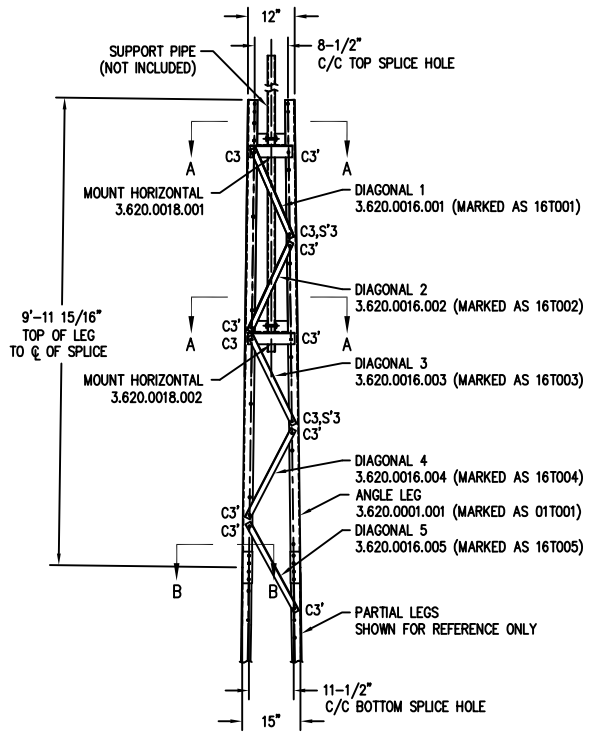
* Nut rotation is rotation relative to a bolt regardless of whether the nut or bolt is turned. Tolerance on rotation: 30° over or under. This Table applies to coarse-thread heavy-hex structural bolts of all sizes and lengths used with heavy-hex semi-finished nuts.

† Bevelled washers are necessary when A490M or A490 bolts are used.

‡ Bolt length is measured from the underside of the head to the extreme end of point.

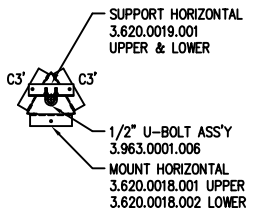
| Bolt Diameter (Inch) | Bolt Length (inch) | Turns beyond snug tight | Bolt Diameter (Inch) | Bolt Length (inch) | Turns beyond snug tight | Bolt Diameter (Inch) | Bolt Length (inch) | Turns beyond snug tight |
|----------------------|--------------------|-------------------------|----------------------|---------------------|-------------------------|----------------------|--------------------|-------------------------|
| 1/2 | up to 2 inch | 1/3 | 1/2 | over 2 up to 4 inch | 1/2 | 1/2 | over 4 inch | 2/3 |
| 5/8 | up to 2.5 inch | 1/3 | 5/8 | over 2.5 up to 5 | 1/2 | 5/8 | over 5 | 2/3 |
| 3/4 | up to 3 inch | 1/3 | 3/4 | over 3 up to 6 | 1/2 | 3/4 | over 6 | 2/3 |
| 7/8 | up to 3.5 inch | 1/3 | 7/8 | over 3.5 up to 7 | 1/2 | 7/8 | over 7 | 2/3 |
| 1 | up to 4 inch | 1/3 | 1 | over 4 up to 8 | 1/2 | 1 | over 8 | 2/3 |



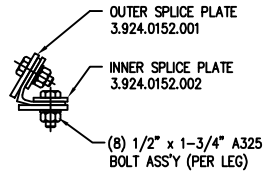


| BOLT SCHEDULE | | |
|---------------|---------------------------------------|-----|
| MARK | SIZE | QTY |
| C3 | 1/2" x 1-1/2" A325 | 12 |
| C3* | 1/2" x 1-1/2" A325 + FLATWASHER | 28 |
| S'3 | 3/16" x 2" x 2" SPACER c/w 9/16" HOLE | 6 |

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SUPPORT INSTALLATION
SECTION A-A



SPLICE DETAIL #1
SECTION B-B

| REFERENCE DRAWINGS: | |
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PRE-ASSEMBLED TOP SECTION #1 - KIT #5.95.0012.000
 KNOCK-DOWN TOP SECTION #1 - KIT #5.94.0012.000

NOTES: LEG: V 2-1/2" x 2-1/2" x 3/16" ANGLE (50W)
 DIAGONAL: 1-1/2" x 1-1/2" x 1/8" ANGLE (44W)
 TOP SECTION HORIZONTAL: 3" x 3" x 3/16" ANGLE (44W)

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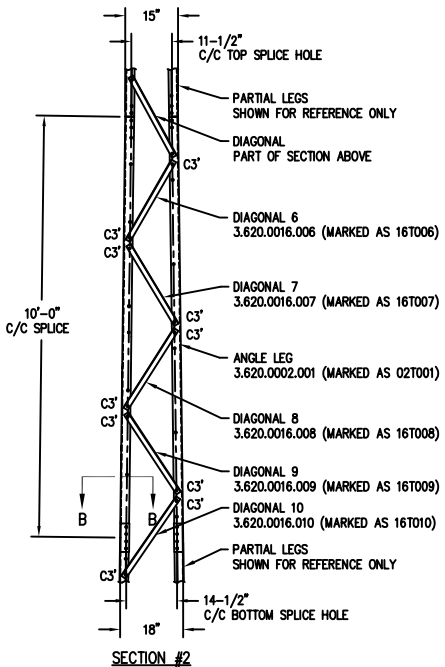
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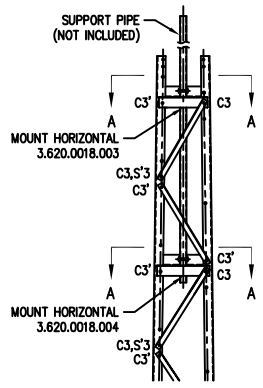
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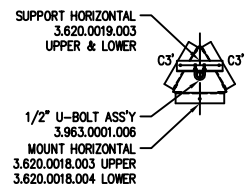
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PRE-ASSEMBLED SECTION #2 - KIT #5.95.0021.000
 KNOCK-DOWN SECTION #2 - KIT #5.94.0021.000



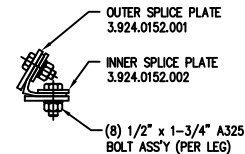
TOP SECTION #2
 (INCLUDES ALL PARTS SHOWN IN SECTION #2)
 PRE-ASSEMBLED TOP SECTION #2 - KIT #5.95.0022.000
 KNOCK-DOWN TOP SECTION #2 - KIT #5.94.0022.000



SUPPORT INSTALLATION SECTION A-A

| BOLT SCHEDULE SECTION #2 | | |
|--------------------------|---------------------------------|-----|
| MARK | SIZE | QTY |
| C3' | 1/2" x 1-1/2" A325 + FLATWASHER | 30 |

| BOLT SCHEDULE TOP SECTION #2 | | |
|------------------------------|---------------------------------------|-----|
| MARK | SIZE | QTY |
| C3 | 1/2" x 1-1/2" A325 | 12 |
| C3' | 1/2" x 1-1/2" A325 + FLATWASHER | 28 |
| S3 | 3/16" x 2" x 2" SPACER c/w 9/16" HOLE | 6 |



SPLICE DETAIL #1 SECTION B-B

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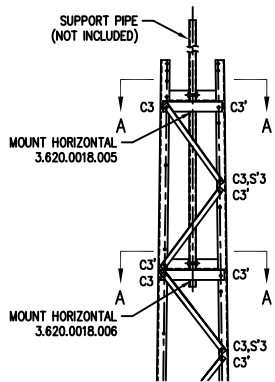
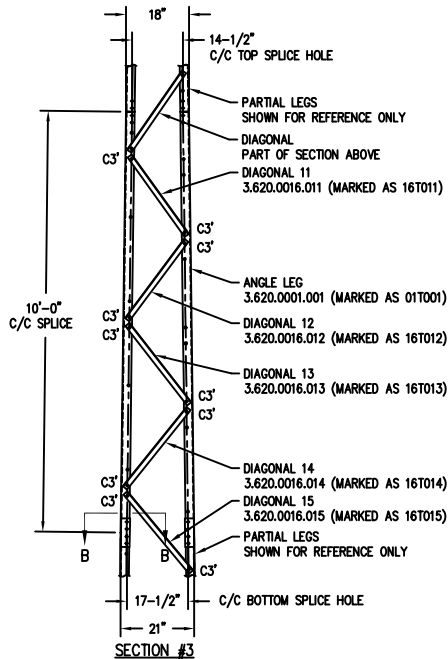
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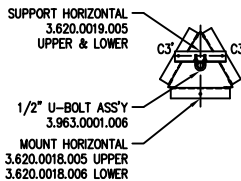
NOTES: LEG: V 2-1/2" x 2-1/2" x 3/16" ANGLE (50W)
 DIAGONAL: L 1-1/2" x 1-1/2" x 1/8" ANGLE (44W)
 TOP SECTION HORIZONTAL: L 3" x 3" x 3/16" ANGLE (44W)



TOP SECTION #3

(INCLUDES ALL PARTS SHOWN IN SECTION #3)

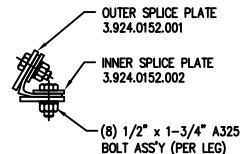
PRE-ASSEMBLED TOP SECTION #3 - KIT #5.95.0032.000
KNOCK-DOWN TOP SECTION #3 - KIT #5.94.0032.000



SUPPORT INSTALLATION
SECTION A-A

| BOLT SCHEDULE SECTION #3 | | |
|--------------------------|---------------------------------|-----|
| MARK | SIZE | QTY |
| C3" | 1/2" x 1-1/2" A325 + FLATWASHER | 30 |

| BOLT SCHEDULE TOP SECTION #3 | | |
|------------------------------|---------------------------------------|-----|
| MARK | SIZE | QTY |
| C3 | 1/2" x 1-1/2" A325 | 12 |
| C3" | 1/2" x 1-1/2" A325 + FLATWASHER | 28 |
| S3 | 3/16" x 2" x 2" SPACER c/w 9/16" HOLE | 6 |



SPLICE DETAIL #1
SECTION B-B

PRE-ASSEMBLED SECTION #3 - KIT #5.95.0031.000
KNOCK-DOWN SECTION #3 - KIT #5.94.0031.000

NOTES: LEG: V 2-1/2" x 2-1/2" x 3/16" ANGLE (50W)
DIAGONAL: L 1-1/2" x 1-1/2" x 1/8" ANGLE (44W)
TOP SECTION HORIZONTAL: L 3" x 3" x 3/16" ANGLE (44W)

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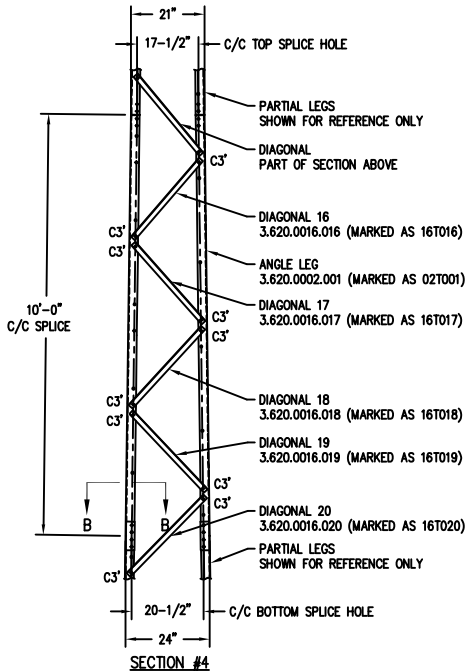
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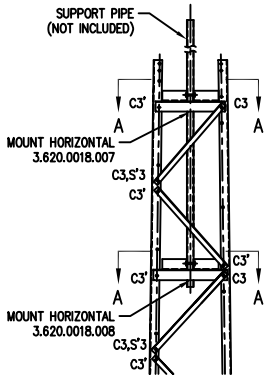
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ASSEMBLY OF SECTION #3



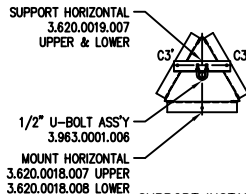
PRE-ASSEMBLED SECTION #4 - KIT #5.95.0041.000
 KNOCK-DOWN SECTION #4 - KIT #5.94.0041.000



TOP SECTION #4

(INCLUDES ALL PARTS SHOWN IN SECTION #4)

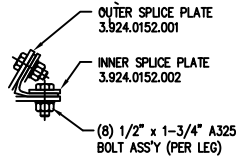
PRE-ASSEMBLED TOP SECTION #4 - KIT #5.95.0042.000
 KNOCK-DOWN TOP SECTION #4 - KIT #5.94.0042.000



**SUPPORT INSTALLATION
 SECTION A-A**

| BOLT SCHEDULE SECTION #4 | | |
|--------------------------|---------------------------------|-----|
| MARK | SIZE | QTY |
| C3' | 1/2" x 1-1/2" A325 + FLATWASHER | 30 |

| BOLT SCHEDULE TOP SECTION #4 | | |
|------------------------------|---------------------------------------|-----|
| MARK | SIZE | QTY |
| C3 | 1/2" x 1-1/2" A325 | 12 |
| C3' | 1/2" x 1-1/2" A325 + FLATWASHER | 28 |
| S'3 | 3/16" x 2" x 2" SPACER c/w 9/16" HOLE | 6 |



**SPLICE DETAIL #1
 SECTION B-B**

| REV. | BY: | BY: | DESCRIPTION | DATE |
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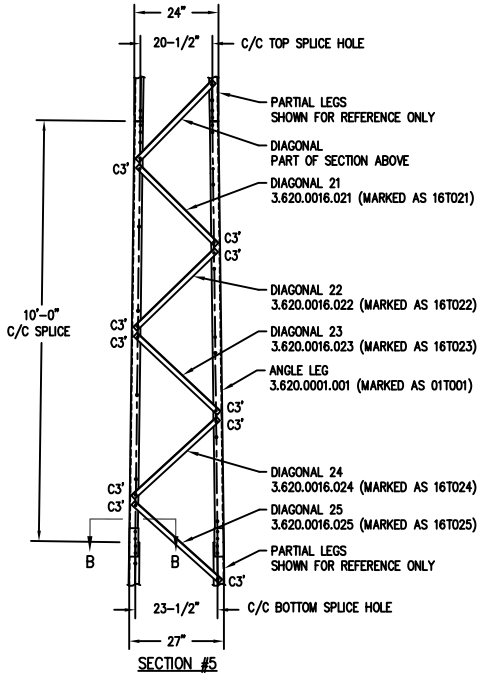
DRAWING NO. 000001.620.0005

CUSTOMER: SITE: SCALE: 25.000

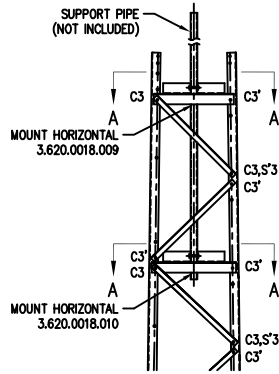
DATE: 27 JAN 03 BY: ML CHK: MAW APP: JB

TITLE: ASSEMBLY OF SECTION #4

NOTES: LEG: V 2-1/2" x 2-1/2" x 3/16" ANGLE (50W)
 DIAGONAL: L 1-1/2" x 1-1/2" x 1/8" ANGLE (44W)
 TOP SECTION HORIZONTAL: L 3" x 3" x 3/16" ANGLE (44W)



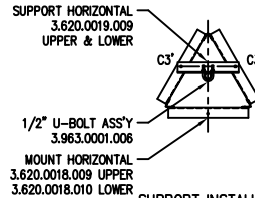
PRE-ASSEMBLED SECTION #5 - KIT #5.95.0051.000
KNOCK-DOWN SECTION #5 - KIT #5.94.0051.000



TOP SECTION #5

(INCLUDES ALL PARTS SHOWN IN SECTION #5)

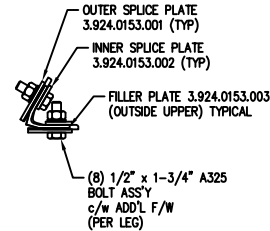
PRE-ASSEMBLED TOP SECTION #5 - KIT #5.95.0052.000
KNOCK-DOWN TOP SECTION #5 - KIT #5.94.0052.000



SUPPORT INSTALLATION
SECTION A-A

| BOLT SCHEDULE SECTION #5 | | |
|--------------------------|---------------------------------|-----|
| MARK | SIZE | QTY |
| C3* | 1/2" x 1-1/2" A325 + FLATWASHER | 30 |

| BOLT SCHEDULE TOP SECTION #5 | | |
|------------------------------|---------------------------------------|-----|
| MARK | SIZE | QTY |
| C3 | 1/2" x 1-1/2" A325 | 12 |
| C3* | 1/2" x 1-1/2" A325 + FLATWASHER | 28 |
| S'3 | 3/16" x 2" x 2" SPACER c/w 9/16" HOLE | 6 |



SPLICE DETAIL #2
SECTION B-B

NOTES: LEG: V 2-1/2" x 2-1/2" x 3/16" ANGLE (50W)
DIAGONAL: L 1-1/2" x 1-1/2" x 1/8" ANGLE (44W)
TOP SECTION HORIZONTAL: L 3" x 3" x 3/16" ANGLE (44W)

| REV. | BY: | BY: | DESCRIPTION | DATE |
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| REV. | CHK. | CHK. | | |
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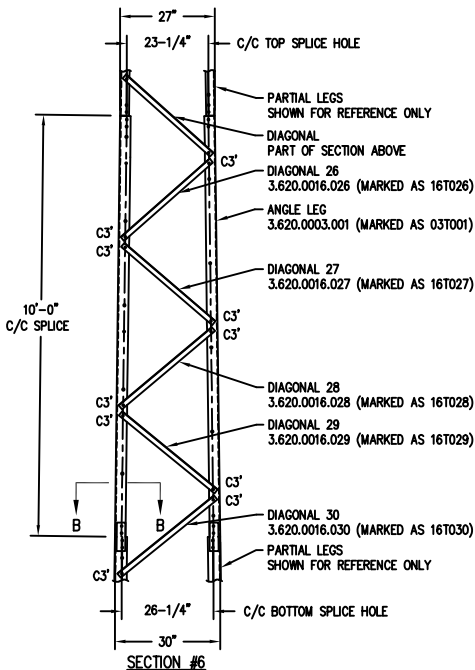
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DRAWING NO. 000001.620.0006

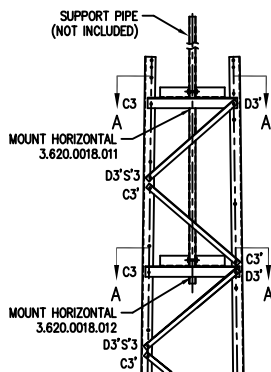
CUSTOMER: SITE: SCALE: 25.000

DATE: 27 JAN 03 BY: ML CHK: MAW APP: JB

TITLE: ASSEMBLY OF SECTION #5



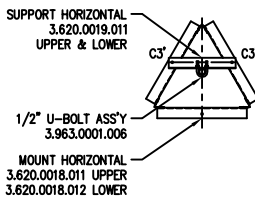
PRE-ASSEMBLED SECTION #6 - KIT #5.95.0061.000
 KNOCK-DOWN SECTION #6 - KIT #5.94.0061.000



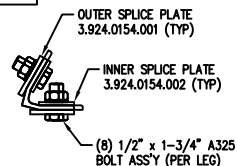
TOP SECTION #6

(INCLUDES ALL PARTS SHOWN IN SECTION #6)

PRE-ASSEMBLED TOP SECTION #6 - KIT #5.95.0062.000
 KNOCK-DOWN TOP SECTION #6 - KIT #5.94.0062.000



SUPPORT INSTALLATION SECTION A-A



SPlice DETAIL #3 SECTION B-B

| BOLT SCHEDULE SECTION #6 | | |
|--------------------------|---------------------------------|-----|
| MARK | SIZE | QTY |
| C3' | 1/2" x 1-1/2" A325 + FLATWASHER | 30 |

| BOLT SCHEDULE TOP SECTION #6 | | |
|------------------------------|---------------------------------------|-----|
| MARK | SIZE | QTY |
| C3 | 1/2" x 1-1/2" A325 | 6 |
| C3' | 1/2" x 1-1/2" A325 + FLATWASHER | 22 |
| D3' | 1/2" x 1-3/4" A325 + FLATWASHER | 12 |
| S'3 | 3/16" x 2" x 2" SPACER c/w 9/16" HOLE | 6 |

| REV. | BY: | CHK: | DESCRIPTION | DATE |
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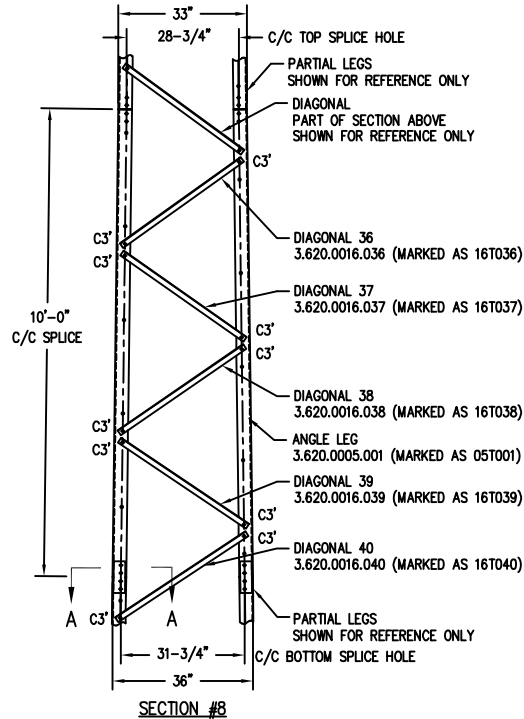
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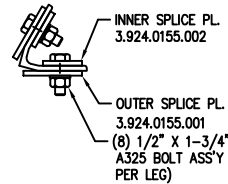
DRAWING NO. 000001.620.0007

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| DATE: 28 JAN 03 | BY: ML | CHK: MAW | APP: JB | SITE: | SCALE: 25.000 |
| TITLE: ASSEMBLY OF SECTION #6 | | | | | |

NOTES: LEG: V 3" x 3" x 1/4" ANGLE (50W)
 DIAGONAL: L 1-1/2" x 1-1/2" x 1/8" ANGLE (44W)
 TOP SECTION HORIZONTAL: L 3" x 3" x 3/16" ANGLE (44W)



| BOLT SCHEDULE | | |
|---------------|--------------------------|-----|
| MARK | SIZE | QTY |
| C3' | 1/2" x 1-1/2" A325 + F/W | 30 |




SECTION A-A
SPLICE DETAIL #4

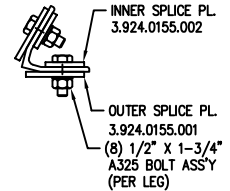
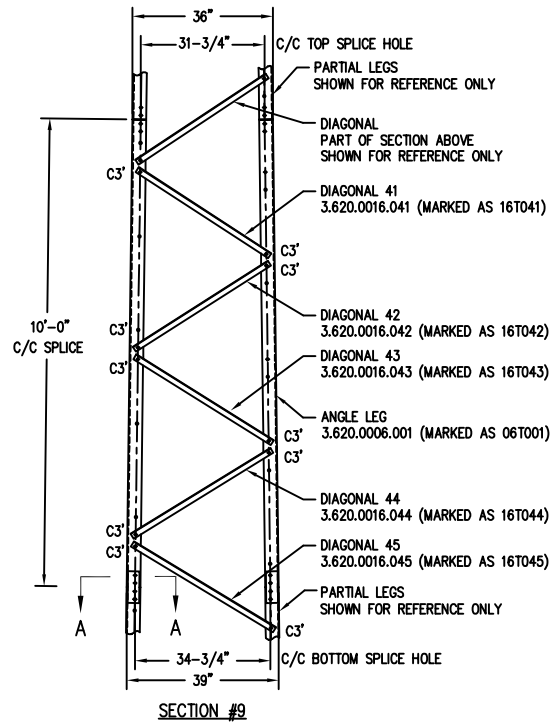
PRE-ASSEMBLED SECTION #8 - KIT #5.95.0081.000
 KNOCK-DOWN SECTION #8 - KIT #5.94.0081.000

NOTES: LEG: V 3-1/2" x 3-1/2" x 1/4" ANGLE (50W)
 DIAGONAL: L 1-1/2" x 1-1/2" x 1/8" ANGLE (44W)

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| DRAWING NO. 000001.620.0009 | | |
| DATE: 27 JAN 03 | BY: AL | SCALE: 25.000 |
| TITLE: ASSEMBLY OF SECTION #8 | | APP: JB |



| BOLT SCHEDULE | | |
|---------------|--------------------------|-----|
| MARK | SIZE | QTY |
| C3' | 1/2" x 1-1/2" A325 + F/W | 30 |

| REV. | BY: | BY: | DESCRIPTION | DATE |
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PRE-ASSEMBLED SECTION #9 - KIT #5.95.0091.000
 KNOCK-DOWN SECTION #9 - KIT #5.94.0091.000

NOTES: LEG: V 3-1/2" x 3-1/2" x 1/4" ANGLE (50W)
 DIAGONAL: L 1-1/2" x 1-1/2" x 1/8" ANGLE (44W)

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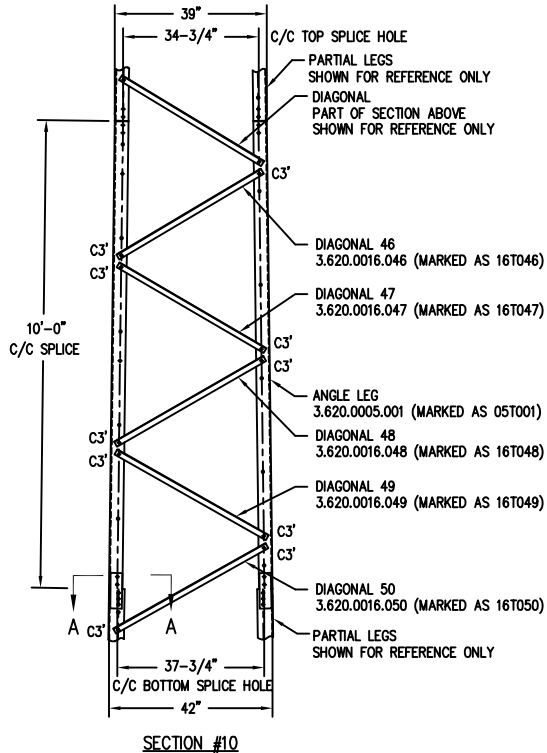
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DRAWING NO. 000001.620.0010

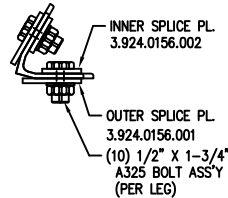
CUSTOMER: SITE: SCALE: 25.000

DATE: 27 JAN 03 BY: AL CHK: MAW APP: JB

TITLE: ASSEMBLY OF SECTION #9



| BOLT SCHEDULE | | |
|---------------|--------------------------|-----|
| MARK | SIZE | QTY |
| C3' | 1/2" x 1-1/2" A325 + F/W | 30 |



**SECTION A-A
SPLICE DETAIL #5**


PRE-ASSEMBLED SECTION #10 - KIT #5.95.0101.000
KNOCK-DOWN SECTION #10 - KIT #5.94.0101.000

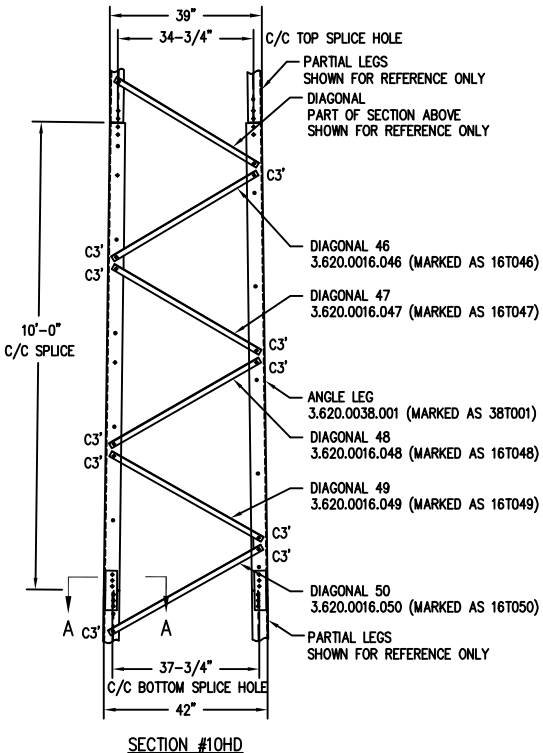
NOTES: LEG: V 3-1/2" x 3-1/2" x 1/4" ANGLE (50W)
DIAGONAL: L 1-1/2" x 1-1/2" x 1/8" ANGLE (44W)

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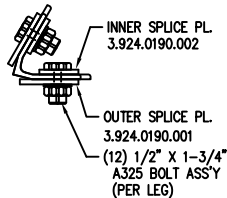
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| | DRAWING NO. 000001.620.0011 | |
| DATE: 27 JAN 03 | BY: AL | CHK: MAW |
| TITLE: ASSEMBLY OF SECTION #10 | | SCALE: 25.000 APP: JB |



SECTION #10HD

| BOLT SCHEDULE | | |
|---------------|--------------------------------|-----|
| MARK | SIZE | QTY |
| C3' | 1/2" x 1-1/2" A325 + EXTRA F/W | 30 |



SECTION A-A
SPLICE DETAIL #7

| REV. | BY: | BY: | CHK: | DESCRIPTION | DATE |
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PRE-ASSEMBLED SECTION #10HD - KIT #5.95.0101.0HD
 KNOCK-DOWN SECTION #10HD - KIT #5.94.0101.0HD

NOTES: LEG: V 4" x 4" x 5/16" ANGLE (50W)
 DIAGONAL: L 1-1/2" x 1-1/2" x 1/8" ANGLE (44W)

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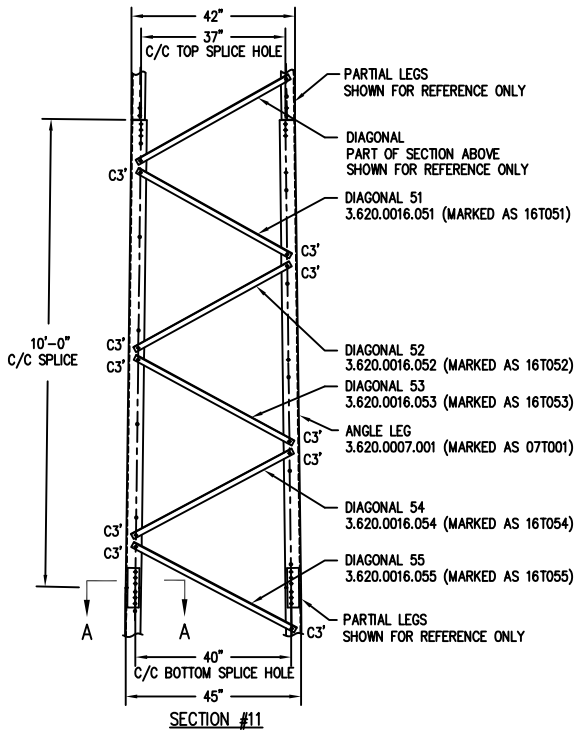


DRAWING NO. 000001.620.0128

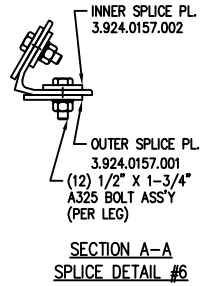
CUSTOMER: SITE: SCALE: 25.000

DATE: 09 APR 07 BY: MRH CHK: CR APP: JB

TITLE: SECTION 10 HD ANGLE LEG



| BOLT SCHEDULE | | |
|---------------|--------------------------|-----|
| MARK | SIZE | QTY |
| C3' | 1/2" x 1-1/2" A325 + F/W | 30 |



PRE-ASSEMBLED SECTION #11 - KIT #5.95.0111.000
 KNOCK-DOWN SECTION #11 - KIT #5.94.0111.000


NOTES: LEG: V 4" x 4" x 1/4" ANGLE (50W)
 DIAGONAL: L 1-1/2" x 1-1/2" x 1/8" ANGLE (44W)

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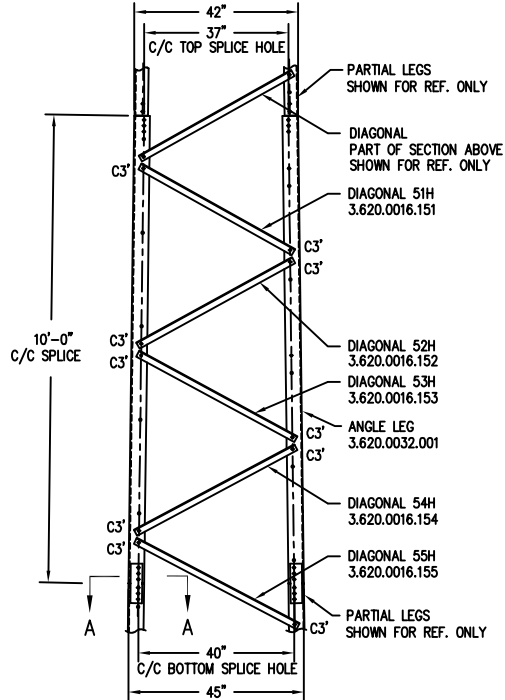
DRAWING NO. 000001.620.0012

CUSTOMER: SITE: SCALE: 25,000

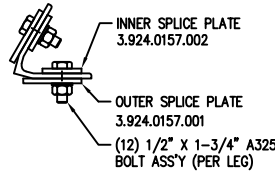
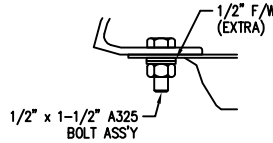
DATE: 27 JAN 03 BY: AL CHK: MAW APP: JB

TITLE: ASSEMBLY OF SECTION #11

SECTION #11HD



TOWER MEMBER CONN.



**SECTION A-A
SPLICE DETAIL #6**

| BOLT SCHEDULE | | |
|---------------|--------------------------|-----|
| MARK | SIZE | QTY |
| C3' | 1/2" X 1-1/2" A325 + F/W | 30 |

| REV. | BY: | CHK: | DESCRIPTION | DATE |
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PRE-ASSEMBLED SECTION #11HD - KIT #5.95.0111.0HD
 KNOCK-DOWN SECTION #11HD - KIT #5.94.0111.0HD

NOTES: LEG: V 4" X 4" X 5/16" ANGLE (50W)
 DIAGONAL: L 1-3/4" X 1-3/4" X 3/16" ANGLE (44W)

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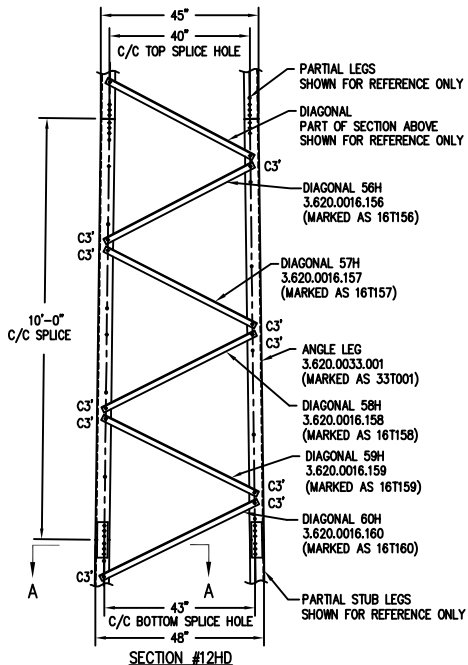
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DRAWING NO. 000001.620.0026

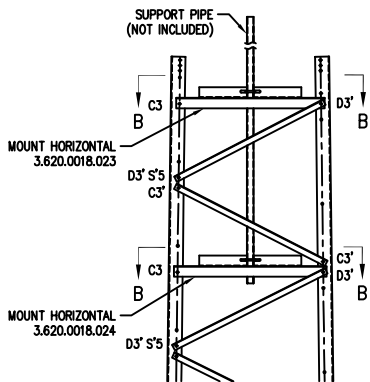
CUSTOMER: SITE: SCALE: 25,000

DATE: 03 JUN 04 BY: MAW CHK: JAG APP: JAG

TITLE: ASSEMBLY OF SECTION #11HD

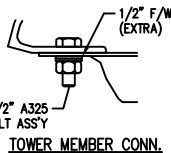
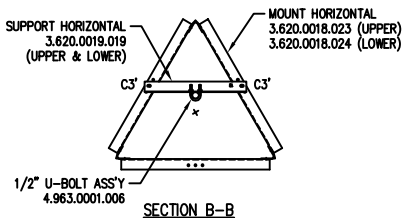


PRE-ASSEMBLED SECTION #12HD - KIT #5.95.0121.OHD
 KNOCK-DOWN SECTION #12HD - KIT #5.94.0121.OHD



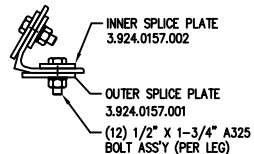
TOP SECTION #12HD
 (INCLUDES ALL PARTS SHOWN IN SECTION #12HD)

PRE-ASSEMBLED TOP SECTION #12HD - KIT #5.95.0122.OHD
 KNOCK-DOWN TOP SECTION #12HD - KIT #5.94.0122.OHD



1/2" x 1-1/2" A325 BOLT ASSY

TOWER MEMBER CONN.



SECTION A-A
 SPLICE DETAIL #6

| BOLT SCHEDULE SECTION #12HD | | |
|-----------------------------|--------------------------|-----|
| MARK | SIZE | QTY |
| C3' | 1/2" x 1-1/2" A325 + F/W | 30 |

| BOLT SCHEDULE TOP SECTION #12HD | | |
|---------------------------------|------------------------------------|-----|
| MARK | SIZE | QTY |
| C3 | 1/2" x 1-1/2" A325 | 6 |
| C3' | 1/2" x 1-1/2" A325 + F/W | 18 |
| D3' | 1/2" x 1-3/4" A325 + F/W | 12 |
| S'5 | 5/16"x2"x2" SPACER c/w 9/16"Ø HOLE | 6 |

| REV. | BY: | BY: | DESCRIPTION | DATE |
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| REV. | CHK. | | | |
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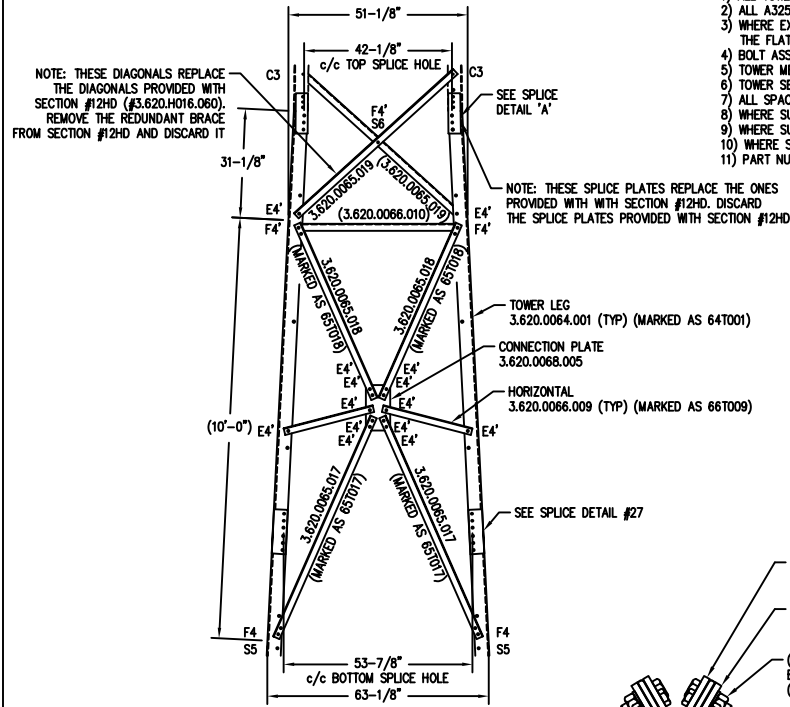
DRAWING NO. 000001.620.0027

| DATE: | BY: | CHK: | APP: |
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| 01 JUN 05 | MRH | JAG | JB |

CUSTOMER: SITE: SCALE: 25.000

TITLE: ASSEMBLY OF SECTION #12HD

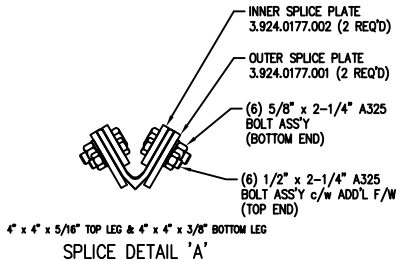
NOTES: LEG: V 4" x 4" x 5/16" ANGLE (50W)
 DIAGONAL: L 1-3/4" x 1-3/4" x 3/16" ANGLE (44W)



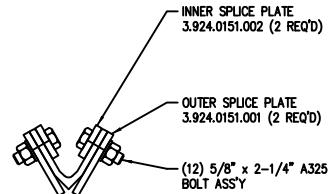
GENERAL ASSEMBLY NOTES:

- 1) ALL TOWER BRACING AND LEG SPLICE BOLTS SHALL BE A325 (UNLESS NOTED OTHERWISE).
- 2) ALL A325 BOLT ASSEMBLIES SHALL BE IN FULL BEARING.
- 3) WHERE EXTRA FLAT WASHERS ARE USED TO ACHIEVE FULL BEARING, ON BRACING MEMBERS, THE FLAT WASHERS SHALL BE INSTALLED UNDER THE NUT.
- 4) BOLT ASSEMBLIES SHALL BE INSTALLED WITH NUTS AND WASHERS TO THE "OUTSIDE" OF THE TOWER.
- 5) TOWER MEMBERS ARE IDENTICAL ON ALL (3) FACES (UNLESS NOTED OTHERWISE).
- 6) TOWER SECTION SHOULD BE ASSEMBLED ON A LEVEL SURFACE I.E. LEVELED TIMBERS OR EQUAL.
- 7) ALL SPACERS ARE 2" x 2" THICKNESS NOTED.
- 8) WHERE SUFFIX () FOLLOWS BOLT DESCRIPTION AN ADDITIONAL FLAT WASHER IS REQUIRED.
- 9) WHERE SUFFIX () FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 9/16"ø.
- 10) WHERE SUFFIX () FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 13/16"ø.
- 11) PART NUMBER SHOWN IN (BRACKETS) TO BE INSTALLED ON "INSIDE" OF THE TOWER.

| BOLT SCHEDULE | | |
|---------------|---|-----|
| MARK | SIZE | QTY |
| C3 | 1/2" x 1-1/2" A325 | 6 |
| E4' | 5/8" x 2" A325 + FLATWASHER | 42 |
| F4 | 5/8" x 2-1/4" A325 | 6 |
| F4' | 5/8" x 2-1/4" A325 + FLATWASHER | 9 |
| S5 | 5/16" x 2" x 2" SPACER c/w 11/16"ø HOLE | 6 |
| S6 | 3/8" x 2" x 2" SPACER c/w 11/16"ø HOLE | 3 |



SPlice DETAIL 'A'



SPlice DETAIL #27
PART # 4924.0001.027

KNOCK-DOWN SECTION #13 - KIT #5.94.0131.000

- NOTES: SECTION PROPERTIES**
- LEG: V 4" x 4" x 3/8" (50W)
 - DIAGONAL: L 2" x 2" x 3/16" (44W)
 - HORIZONTAL: L 2" x 2" x 3/16" (44W)

| REV. | BY: | BY: | DESCRIPTION | DATE |
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| REV. | CHK. | CHK. | | |
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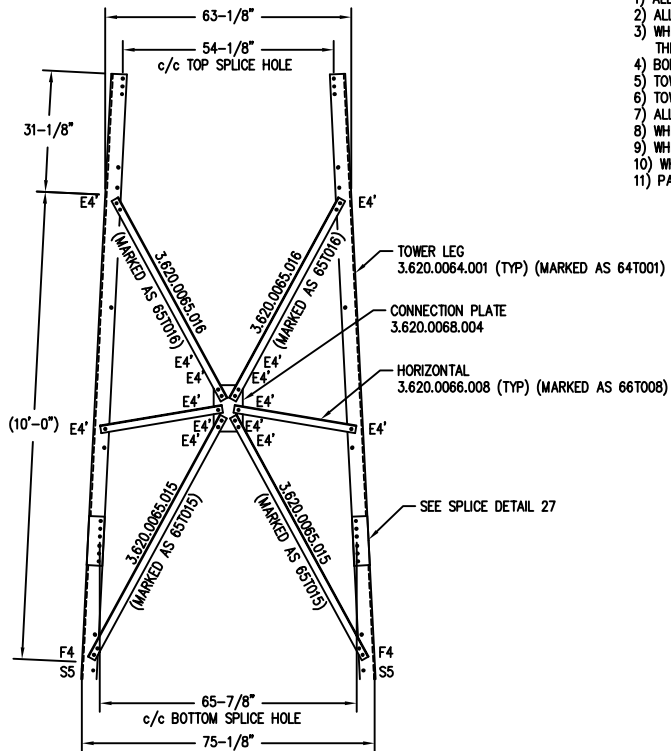
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Trylon

DRAWING NO. 000001.620.0058

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| DATE: 09 JUN 04 | BY: MAW | CHK: RW | APP: JB |
| SITE: | | SCALE: 25.000 | |

TITLE: SECTION 13 ASSEMBLY

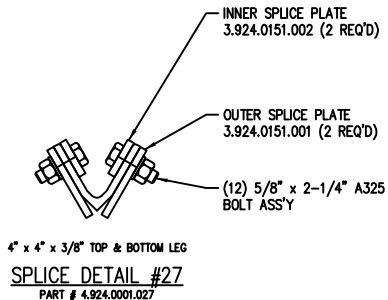


GENERAL ASSEMBLY NOTES:

- 1) ALL TOWER BRACING AND LEG SPLICE BOLTS SHALL BE A325 (UNLESS NOTED OTHERWISE).
- 2) ALL A325 BOLT ASSEMBLIES SHALL BE IN FULL BEARING.
- 3) WHERE EXTRA FLAT WASHERS ARE USED TO ACHIEVE FULL BEARING, ON BRACING MEMBERS, THE FLAT WASHERS SHALL BE INSTALLED UNDER THE NUT.
- 4) BOLT ASSEMBLIES SHALL BE INSTALLED WITH NUTS AND WASHERS TO THE "OUTSIDE" OF THE TOWER.
- 5) TOWER MEMBERS ARE IDENTICAL ON ALL (3) FACES (UNLESS NOTED OTHERWISE).
- 6) TOWER SECTION SHOULD BE ASSEMBLED ON A LEVEL SURFACE i.e., LEVELLED TIMBERS OR EQUAL.
- 7) ALL SPACERS ARE 2" x 2" x THICKNESS NOTED.
- 8) WHERE SUFFIX (*) FOLLOWS BOLT DESCRIPTION AN ADDITIONAL FLAT WASHER IS REQUIRED.
- 9) WHERE SUFFIX (S) FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 9/16"Ø.
- 10) WHERE SUFFIX (I) FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 13/16"Ø.
- 11) PART NUMBER SHOWN IN (BRACKETS) TO BE INSTALLED ON "INSIDE" OF THE TOWER.

BOLT SCHEDULE

| MARK | SIZE | QTY |
|------|---|-----|
| E4' | 5/8" x 2" A325 + FLATWASHER | 42 |
| F4 | 5/8" x 2-1/4" A325 | 6 |
| S5 | 5/16" x 2" x 2" SPACER c/w 11/16"Ø HOLE | 6 |



KNOCK-DOWN SECTION #14 - KIT #5.94.0141.000

NOTES: SECTION PROPERTIES

- LEG: V 4" x 4" x 3/8" (50W)
- DIAGONAL: L 2" x 2" x 3/16" (44W)
- HORIZONTAL: L 2" x 2" x 3/16" (44W)

| REV. | BY: | BY: | DESCRIPTION | DATE |
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| | REV. | CHK. | | |
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Trylon

DRAWING NO. 000001.620.0059

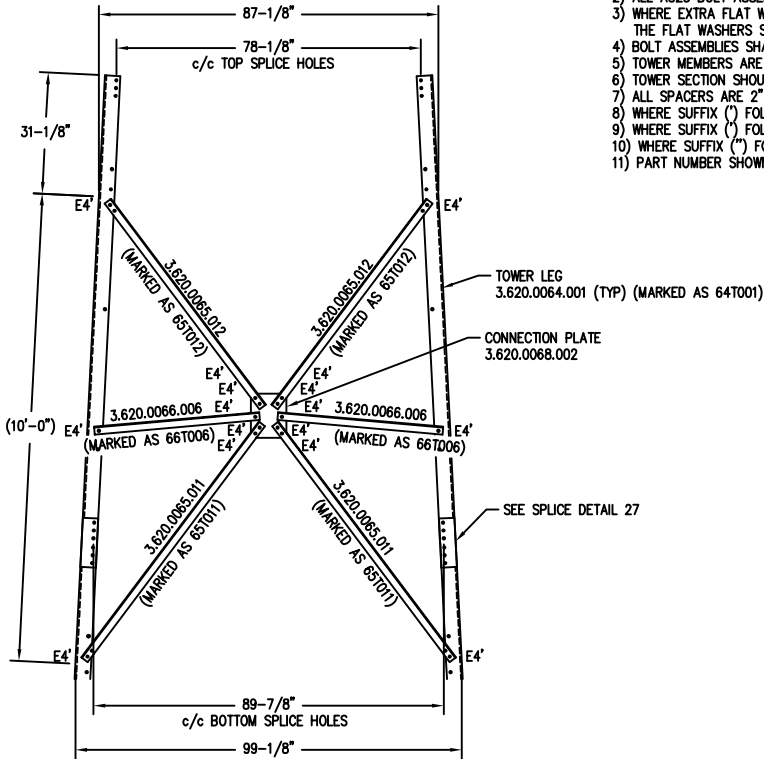
CUSTOMER: SITE: SCALE: 25.000

DATE: 09 JUN 04 BY: MAW CHK: RW APP: JB

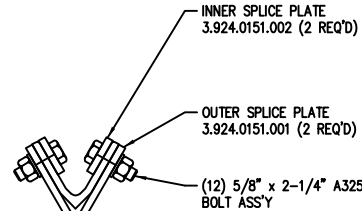
TITLE: SECTION 14 ASSEMBLY

GENERAL ASSEMBLY NOTES:

- 1) ALL TOWER BRACING AND LEG SPLICE BOLTS SHALL BE A325 (UNLESS NOTED OTHERWISE).
- 2) ALL A325 BOLT ASSEMBLIES SHALL BE IN FULL BEARING.
- 3) WHERE EXTRA FLAT WASHERS ARE USED TO ACHIEVE FULL BEARING, ON BRACING MEMBERS, THE FLAT WASHERS SHALL BE INSTALLED UNDER THE NUT.
- 4) BOLT ASSEMBLIES SHALL BE INSTALLED WITH NUTS AND WASHERS TO THE "OUTSIDE" OF THE TOWER.
- 5) TOWER MEMBERS ARE IDENTICAL ON ALL (3) FACES (UNLESS NOTED OTHERWISE).
- 6) TOWER SECTION SHOULD BE ASSEMBLED ON A LEVEL SURFACE i.e., LEVELED TIMBERS OR EQUAL.
- 7) ALL SPACERS ARE 2" x 2" x THICKNESS NOTED.
- 8) WHERE SUFFIX (") FOLLOWS BOLT DESCRIPTION AN ADDITIONAL FLAT WASHER IS REQUIRED.
- 9) WHERE SUFFIX (") FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 9/16"Ø.
- 10) WHERE SUFFIX (") FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 13/16"Ø.
- 11) PART NUMBER SHOWN IN (BRACKETS) TO BE INSTALLED ON "INSIDE" OF THE TOWER.



| BOLT SCHEDULE | | |
|---------------|---|-----|
| MARK | SIZE | QTY |
| E4' | 5/8" x 2" A325 BOLT ASSY + EXTRA FLATWASHER | 48 |



4" x 4" x 3/8" TOP & BOTTOM LEG

SPLICE DETAIL #27

PART # 4.924.0001.027


KNOCK-DOWN SECTION #16 - KIT #5.94.0161.000

| REV. | BY: | BY: | DESCRIPTION | DATE |
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DRAWING NO. 000001.620.0061

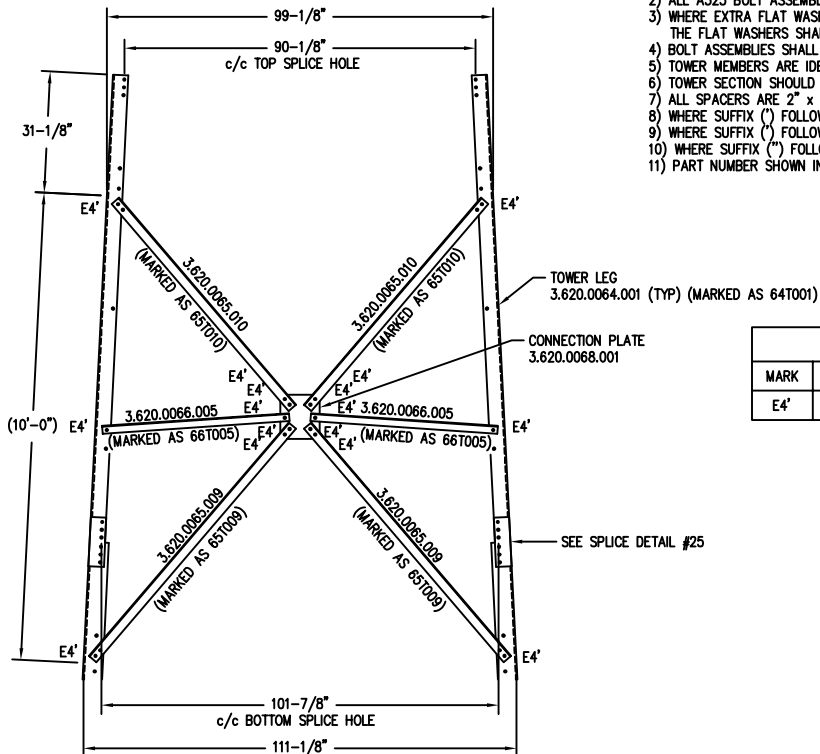
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| CUSTOMER: | SITE: | SCALE: |
| DATE: 09 JUN 04 | BY: MAW | CHK: JAG |
| APP: JB | SCALE: 25.000 | |
| TITLE: SECTION 16 ASSEMBLY | | |

NOTES: SECTION PROPERTIES

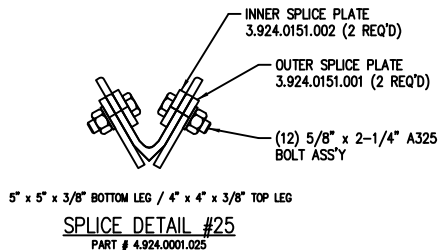
- LEG: V 4" x 4" x 3/8" (50W)
- DIAGONAL: L 2" x 2" x 3/16" (44W)
- HORIZONTAL: L 2" x 2" x 3/16" (44W)

GENERAL ASSEMBLY NOTES:

- 1) ALL TOWER BRACING AND LEG SPLICE BOLTS SHALL BE A325 (UNLESS NOTED OTHERWISE).
- 2) ALL A325 BOLT ASSEMBLIES SHALL BE IN FULL BEARING.
- 3) WHERE EXTRA FLAT WASHERS ARE USED TO ACHIEVE FULL BEARING, ON BRACING MEMBERS, THE FLAT WASHERS SHALL BE INSTALLED UNDER THE NUT.
- 4) BOLT ASSEMBLIES SHALL BE INSTALLED WITH NUTS AND WASHERS TO THE "OUTSIDE" OF THE TOWER.
- 5) TOWER MEMBERS ARE IDENTICAL ON ALL (3) FACES (UNLESS NOTED OTHERWISE).
- 6) TOWER SECTION SHOULD BE ASSEMBLED ON A LEVEL SURFACE I.E., LEVELLED TIMBERS OR EQUAL.
- 7) ALL SPACERS ARE 2" x 2" x THICKNESS NOTED.
- 8) WHERE SUFFIX (') FOLLOWS BOLT DESCRIPTION AN ADDITIONAL FLAT WASHER IS REQUIRED.
- 9) WHERE SUFFIX (") FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 9/16"Ø.
- 10) WHERE SUFFIX (*) FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 13/16"Ø.
- 11) PART NUMBER SHOWN IN (BRACKETS) TO BE INSTALLED ON "INSIDE" OF THE TOWER.



| BOLT SCHEDULE | | |
|---------------|--|-----|
| MARK | SIZE | QTY |
| E4' | 5/8" x 2" A325 BOLT ASS'Y + EXTRA FLATWASHER | 48 |




KNOCK-DOWN SECTION #17 - KIT #5.94.0171.000

| REV. | BY: | BY: | DESCRIPTION | DATE |
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DRAWING NO. 000001.620.0062

CUSTOMER: SITE: SCALE: 25.000

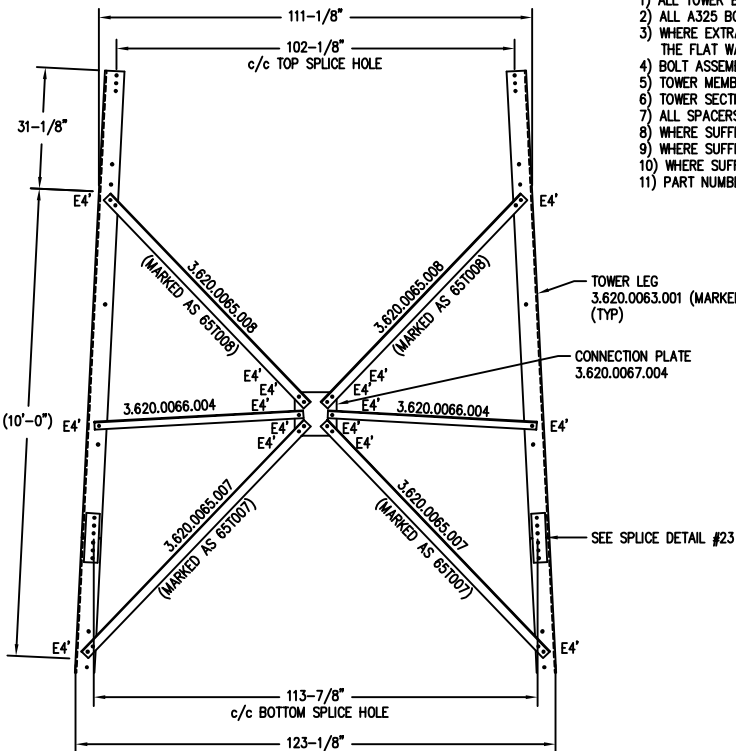
DATE: 09 JUN 04 BY: MAW CHK: JAG APP: JB

TITLE: SECTION 17 ASSEMBLY

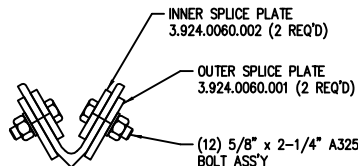
NOTES: SECTION PROPERTIES
 LEG: V 4" x 4" x 3/8" (50W)
 DIAGONAL: L 2-1/2" x 2-1/2" x 3/16" (44W)
 HORIZONTAL: L 2" x 2" x 3/16" (44W)

GENERAL ASSEMBLY NOTES:

- 1) ALL TOWER BRACING AND LEG BOLT SPUCE BOLTS SHALL BE A325 (UNLESS NOTED OTHERWISE).
- 2) ALL A325 BOLT ASSEMBLIES SHALL BE IN FULL BEARING.
- 3) WHERE EXTRA FLAT WASHERS ARE USED TO ACHIEVE FULL BEARING, ON BRACING MEMBERS, THE FLAT WASHERS SHALL BE INSTALLED UNDER THE NUT.
- 4) BOLT ASSEMBLIES SHALL BE INSTALLED WITH NUTS AND WASHERS TO THE "OUTSIDE" OF THE TOWER.
- 5) TOWER MEMBERS ARE IDENTICAL ON ALL (3) FACES (UNLESS NOTED OTHERWISE).
- 6) TOWER SECTION SHOULD BE ASSEMBLED ON A LEVEL SURFACE i.e., LEVELED TIMBERS OR EQUAL.
- 7) ALL SPACERS ARE 2" x 2" x THICKNESS NOTED.
- 8) WHERE SUFFIX (") FOLLOWS BOLT DESCRIPTION AN ADDITIONAL FLAT WASHER IS REQUIRED.
- 9) WHERE SUFFIX (') FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 9/16"ø.
- 10) WHERE SUFFIX (") FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 13/16"ø.
- 11) PART NUMBER SHOWN IN (BRACKETS) TO BE INSTALLED ON "INSIDE" OF THE TOWER.



| BOLT SCHEDULE | | |
|---------------|--|-----|
| MARK | SIZE | QTY |
| E4' | 5/8" x 2" A325 BOLT ASS'Y + EXTRA FLATWASHER | 48 |



5" x 5" x 3/8" TOP & BOTTOM LEG

SPLICE DETAIL #23

PART # 4.924.0001.023

KNOCK-DOWN SECTION #18 - KIT #5.94.0181.000

| REV. | BY: | BY: | DESCRIPTION | DATE |
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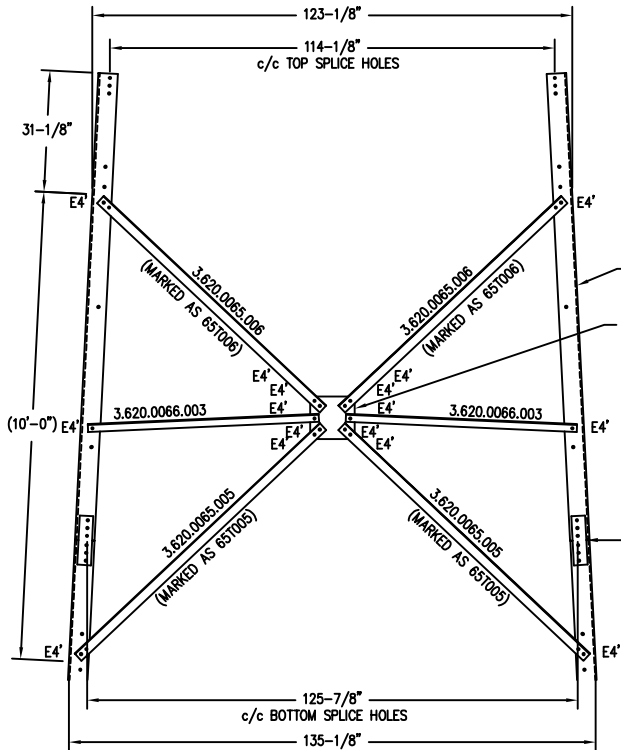
DRAWING NO. 000001.620.0063

CUSTOMER: SITE: SCALE: 25.000

DATE: 09 JUN 04 BY: MAW CHK: JAG APP: JB

TITLE: SECTION 18 ASSEMBLY

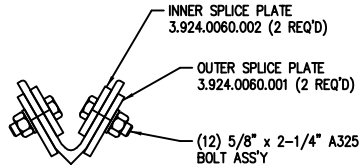
NOTES: **SECTION PROPERTIES**
 LEG: V 5" x 5" x 3/8" (50W)
 DIAGONAL: L 2-1/2" x 2-1/2" x 3/16" (44W)
 HORIZONTAL: L 2" x 2" x 3/16" (44W)



GENERAL ASSEMBLY NOTES:

- 1) ALL TOWER BRACING AND LEG SPLICE BOLTS SHALL BE A325 (UNLESS NOTED OTHERWISE).
- 2) ALL A325 BOLT ASSEMBLIES SHALL BE IN FULL BEARING.
- 3) WHERE EXTRA FLAT WASHERS ARE USED TO ACHIEVE FULL BEARING, ON BRACING MEMBERS, THE FLAT WASHERS SHALL BE INSTALLED UNDER THE NUT.
- 4) BOLT ASSEMBLIES SHALL BE INSTALLED WITH NUTS AND WASHERS TO THE "OUTSIDE" OF THE TOWER.
- 5) TOWER MEMBERS ARE IDENTICAL ON ALL (3) FACES (UNLESS NOTED OTHERWISE).
- 6) TOWER SECTION SHOULD BE ASSEMBLED ON A LEVEL SURFACE i.e., LEVELED TIMBERS OR EQUAL.
- 7) ALL SPACERS ARE 2" x 2" x THICKNESS NOTED.
- 8) WHERE SUFFIX (") FOLLOWS BOLT DESCRIPTION AN ADDITIONAL FLAT WASHER IS REQUIRED.
- 9) WHERE SUFFIX (") FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 9/16"φ.
- 10) WHERE SUFFIX (") FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 13/16"φ.
- 11) PART NUMBER SHOWN IN (BRACKETS) TO BE INSTALLED ON "INSIDE" OF THE TOWER.

| BOLT SCHEDULE | | |
|---------------|--|-----|
| MARK | SIZE | QTY |
| E4' | 5/8" x 2" A325 BOLT ASS'Y + EXTRA FLATWASHER | 48 |




5" x 5" x 3/8" TOP & BOTTOM LEG
SPLICE DETAIL #23
 PART # 4.924.0001.023

KNOCK-DOWN SECTION #19 - KIT #5.94.0191.000

| REV. | BY: | BY: | DESCRIPTION | DATE |
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DRAWING NO. 000001.620.0064

CUSTOMER: SITE: SCALE: 25.000

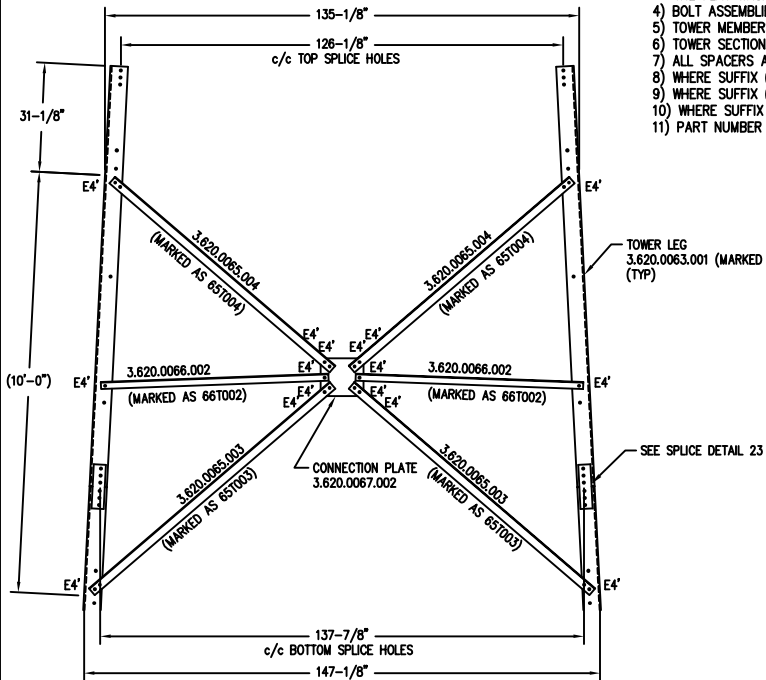
DATE: 09 JUN 04 BY: MAW CHK: JAG APP: JB

TITLE: SECTION 19 ASSEMBLY

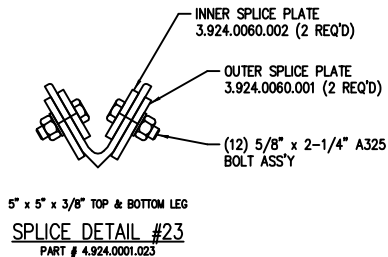
NOTES: SECTION PROPERTIES
 LEG: V 5" x 5" x 3/8" (50W)
 DIAGONAL: L 2-1/2" x 2-1/2" x 3/16" (44W)
 HORIZONTAL: L 2" x 2" x 3/16" (44W)

GENERAL ASSEMBLY NOTES:

- 1) ALL TOWER BRACING AND LEG SPLICE BOLTS SHALL BE A325 (UNLESS NOTED OTHERWISE).
- 2) ALL A325 BOLT ASSEMBLIES SHALL BE IN FULL BEARING.
- 3) WHERE EXTRA FLAT WASHERS ARE USED TO ACHIEVE FULL BEARING, ON BRACING MEMBERS, THE FLAT WASHERS SHALL BE INSTALLED UNDER THE NUT.
- 4) BOLT ASSEMBLIES SHALL BE INSTALLED WITH NUTS AND WASHERS TO THE "OUTSIDE" OF THE TOWER.
- 5) TOWER MEMBERS ARE IDENTICAL ON ALL (3) FACES (UNLESS NOTED OTHERWISE).
- 6) TOWER SECTION SHOULD BE ASSEMBLED ON A LEVEL SURFACE I.E., LEVELED TIMBERS OR EQUAL.
- 7) ALL SPACERS ARE 2" x 2" x THICKNESS NOTED.
- 8) WHERE SUFFIX (") FOLLOWS BOLT DESCRIPTION AN ADDITIONAL FLAT WASHER IS REQUIRED.
- 9) WHERE SUFFIX (") FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 9/16"Ø.
- 10) WHERE SUFFIX (") FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 13/16"Ø.
- 11) PART NUMBER SHOWN IN (BRACKETS) TO BE INSTALLED ON "INSIDE" OF THE TOWER.



| BOLT SCHEDULE | | |
|---------------|--|-----|
| MARK | SIZE | QTY |
| E4' | 5/8" x 2" A325 BOLT ASS'Y + EXTRA FLATWASHER | 48 |



KNOCK-DOWN SECTION #20 - KIT #5.94.0201.000


NOTES: SECTION PROPERTIES

- LEG: V 5" x 5" x 3/8" (50W)
- DIAGONAL: L 2-1/2" x 2-1/2" x 3/16" (44W)
- HORIZONTAL: L 2" x 2" x 3/16" (44W)

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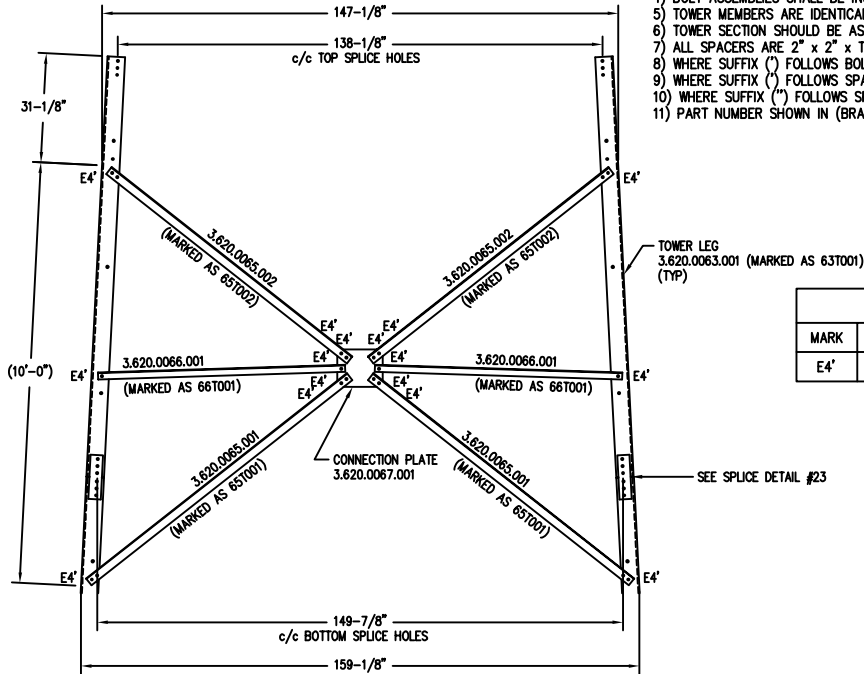
CUSTOMER: SITE: SCALE: 25.000

DATE: 09 JUN 04 BY: MAW CHK: JAG APP: JB

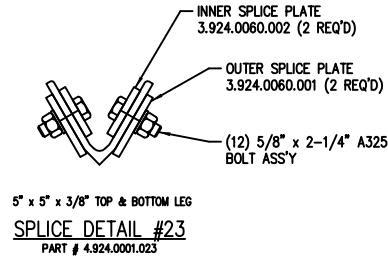
TITLE: SECTION 20 ASSEMBLY

GENERAL ASSEMBLY NOTES:

- 1) ALL TOWER BRACING AND LEG SPLICE BOLTS SHALL BE A325 (UNLESS NOTED OTHERWISE).
- 2) ALL A325 BOLT ASSEMBLIES SHALL BE IN FULL BEARING.
- 3) WHERE EXTRA FLAT WASHERS ARE USED TO ACHIEVE FULL BEARING, ON BRACING MEMBERS, THE FLAT WASHERS SHALL BE INSTALLED UNDER THE NUT.
- 4) BOLT ASSEMBLIES SHALL BE INSTALLED WITH NUTS AND WASHERS TO THE "OUTSIDE" OF THE TOWER.
- 5) TOWER MEMBERS ARE IDENTICAL ON ALL (3) FACES (UNLESS NOTED OTHERWISE).
- 6) TOWER SECTION SHOULD BE ASSEMBLED ON A LEVEL SURFACE I.E., LEVELED TIMBERS OR EQUAL.
- 7) ALL SPACERS ARE 2" x 2" x THICKNESS NOTED.
- 8) WHERE SUFFIX (") FOLLOWS BOLT DESCRIPTION AN ADDITIONAL FLAT WASHER IS REQUIRED.
- 9) WHERE SUFFIX (") FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 9/16"φ.
- 10) WHERE SUFFIX (") FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 13/16"φ.
- 11) PART NUMBER SHOWN IN (BRACKETS) TO BE INSTALLED ON "INSIDE" OF THE TOWER.



| BOLT SCHEDULE | | |
|---------------|--|-----|
| MARK | SIZE | QTY |
| E4' | 5/8" x 2" A325 BOLT ASS'Y + EXTRA FLATWASHER | 48 |



KNOCK-DOWN SECTION #21 - KIT #5.94.0211.000

| REV. | BY: | BY: | DESCRIPTION | DATE |
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DRAWING NO. 000001.620.0066

CUSTOMER: SITE: SCALE: 25.000

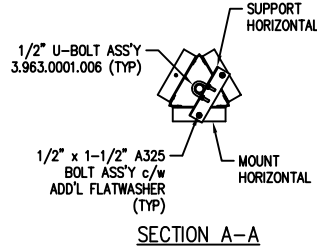
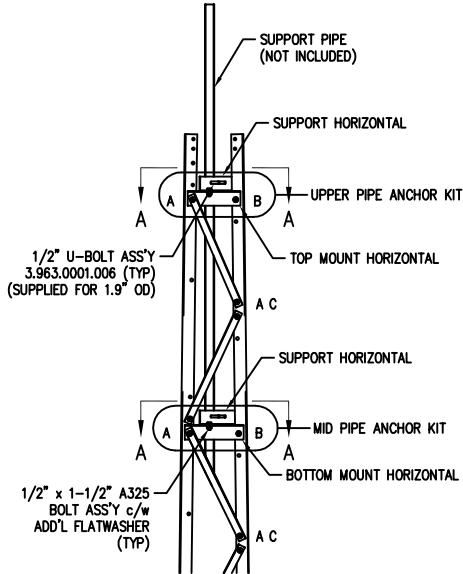
DATE: 09 JUN 04 BY: MAW CHK: JAG APP: JB

TITLE: SECTION 21 ASSEMBLY

NOTES: SECTION PROPERTIES
 LEG: V 5" x 5" x 3/8" (50W)
 DIAGONAL: L 2-1/2" x 2-1/2" x 3/16" (44W)
 HORIZONTAL: L 2" x 2" x 3/16" (44W)

| BOLT SCHEDULE (SECT. 1 TO 5) | | |
|------------------------------|------------------------------------|-----|
| MARK | SIZE | QTY |
| A | 1/2" x 1-1/2" A325 | 12 |
| B | 1/2" x 1-1/2" A325 + FLATWASHER | 10 |
| C | 3/16"x2"x2" SPACER c/w 9/16"Ø HOLE | 6 |

| BOLT SCHEDULE (SECT. 6 TO 12) | | |
|-------------------------------|------------------------------------|-----|
| MARK | SIZE | QTY |
| A | 1/2" x 1-3/4" A325 + FLATWASHER | 12 |
| B | 1/2" x 1-1/2" A325 | 10 |
| C | 3/16"x2"x2" SPACER c/w 9/16"Ø HOLE | 6 |



NOTE:
 SUPPORT HORIZONTAL IS DESIGNED
 TO ACCOMMODATE 1.9"OD THRU 4-1/2" OD
 SUPPORT PIPES.
 SUPPORT PIPES AND U-BOLTS SOLD SEPARATELY.

| REV. | BY: | BY: | DESCRIPTION | DATE |
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| REV. | REV. | CHK. | | |
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Trylon

DRAWING NO. 000001.620.0031

CUSTOMER: SITE: SCALE: 20,000

DATE: 11 APR 03 BY: CHK: APP:

TITLE: TOP MOUNT DETAILS


NOTES: 1) REFER TO DWG. 000001.620.0032 FOR KIT NUMBERS AND COMPONENT PART NUMBERS FOR THE SUPPORT HORIZONTAL AND MOUNT HORIZONTAL.
 2) THE SAME PART NUMBER IS UTILIZED FOR BOTH THE UPPER AND MID SUPPORT HORIZONTAL WITHIN EACH SECTION.

TOP MOUNT KITS

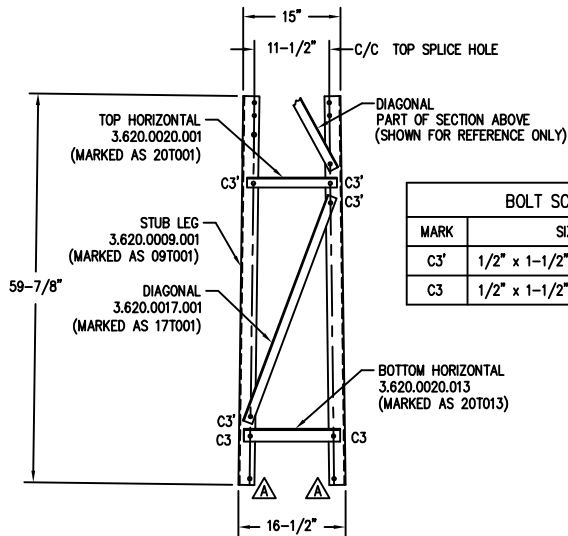
| KIT NUMBER | SECTION NUMBER | DESCRIPTION | MOUNT HORIZONTAL | SUPPORT HORIZONTAL |
|---------------|----------------|-------------------|------------------|--------------------|
| 4.83.0001.001 | 1 | UPPER PIPE ANCHOR | 3.620.0018.001 | 3.620.0019.001 |
| 4.83.0001.002 | 1 | MID PIPE ANCHOR | 3.620.0018.002 | 3.620.0019.001 |
| 4.83.0002.001 | 2 | UPPER PIPE ANCHOR | 3.620.0018.003 | 3.620.0019.003 |
| 4.83.0002.002 | 2 | MID PIPE ANCHOR | 3.620.0018.004 | 3.620.0019.003 |
| 4.83.0003.001 | 3 | UPPER PIPE ANCHOR | 3.620.0018.005 | 3.620.0019.005 |
| 4.83.0003.002 | 3 | MID PIPE ANCHOR | 3.620.0018.006 | 3.620.0019.005 |
| 4.83.0004.001 | 4 | UPPER PIPE ANCHOR | 3.620.0018.007 | 3.620.0019.007 |
| 4.83.0004.002 | 4 | MID PIPE ANCHOR | 3.620.0018.008 | 3.620.0019.007 |
| 4.83.0005.001 | 5 | UPPER PIPE ANCHOR | 3.620.0018.009 | 3.620.0019.009 |
| 4.83.0005.002 | 5 | MID PIPE ANCHOR | 3.620.0018.010 | 3.620.0019.009 |
| 4.83.0006.001 | 6 | UPPER PIPE ANCHOR | 3.620.0018.011 | 3.620.0019.011 |
| 4.83.0006.002 | 6 | MID PIPE ANCHOR | 3.620.0018.012 | 3.620.0019.011 |
| 4.83.0007.001 | 7 | UPPER PIPE ANCHOR | 3.620.0018.013 | 3.620.0019.013 |
| 4.83.0007.002 | 7 | MID PIPE ANCHOR | 3.620.0018.014 | 3.620.0019.013 |
| 4.83.0008.001 | 8 | UPPER PIPE ANCHOR | 3.620.0018.015 | 3.620.0019.015 |
| 4.83.0008.002 | 8 | MID PIPE ANCHOR | 3.620.0018.016 | 3.620.0019.015 |
| 4.83.0009.001 | 9 | UPPER PIPE ANCHOR | 3.620.0018.017 | 3.620.0019.016 |
| 4.83.0009.002 | 9 | MID PIPE ANCHOR | 3.620.0018.018 | 3.620.0019.016 |
| 4.83.0010.001 | 10 | UPPER PIPE ANCHOR | 3.620.0018.019 | 3.620.0019.017 |
| 4.83.0010.002 | 10 | MID PIPE ANCHOR | 3.620.0018.020 | 3.620.0019.017 |
| 4.83.0011.001 | 11 | UPPER PIPE ANCHOR | 3.620.0018.021 | 3.620.0019.018 |
| 4.83.0011.002 | 11 | MID PIPE ANCHOR | 3.620.0018.022 | 3.620.0019.018 |
| 4.83.0012.001 | 12 | UPPER PIPE ANCHOR | 3.620.0018.023 | 3.620.0019.019 |
| 4.83.0012.002 | 12 | MID PIPE ANCHOR | 3.620.0018.024 | 3.620.0019.019 |

| REV. | BY: | BY: | DESCRIPTION | DATE |
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| | | 000001.620.0032 | |
| CUSTOMER: | SITE: | SCALE: 1.000 | |
| DATE: 23 APR 03 | BY: | CHK: | APP: |
| TITLE: SUPERTITAN SS TOP MOUNT KITS | | | |

NOTES: 1) REFER TO DWG. 000001.620.0031 FOR INSTALLATION DETAILS.




| BOLT SCHEDULE | | |
|---------------|--------------------------|-----|
| MARK | SIZE | QTY |
| C3* | 1/2" x 1-1/2" A325 + F/W | 12 |
| C3 | 1/2" x 1-1/2" A325 | 6 |

KNOCK-DOWN SECTION #2F – KIT #5.81.020.000

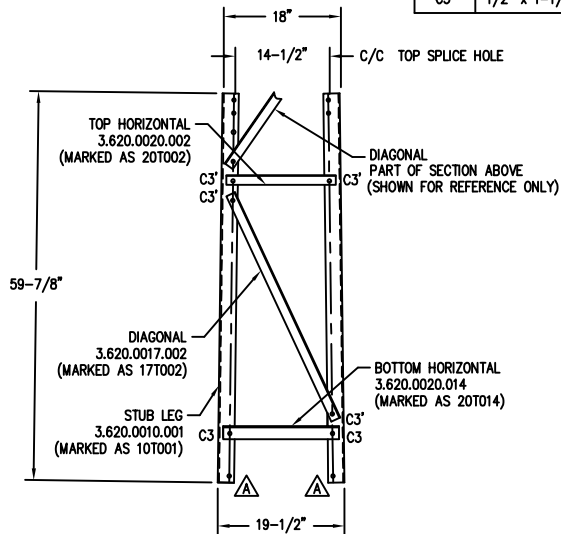
NOTES: LEG : 2-1/2" X 2-1/2" X 3/16" ANGLE (50W)
 DIAGONAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 TOP HORIZONTAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 BOTTOM HORIZONTAL: 2" X 2" X 3/16" ANGLE (44W)

| REV. | BY: | BY: | DESCRIPTION | DATE |
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| | DRAWING NO. 000001.620.0014 | |
| CUSTOMER: | SITE: | SCALE: |
| DATE: 23 JAN 03 | BY: AL | CHK: MAW |
| | | APP: JB |
| TITLE: ASSEMBLY OF FND SECTION 2F | | |

| BOLT SCHEDULE | | |
|---------------|--------------------------|-----|
| MARK | SIZE | QTY |
| C3' | 1/2" x 1-1/2" A325 + F/W | 12 |
| C3 | 1/2" x 1-1/2" A325 | 6 |



KNOCK-DOWN SECTION #3F - KIT #5.81.0203.000


NOTES: LEG : 2-1/2" X 2-1/2" X 3/16" ANGLE (50W)
 DIAGONAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 TOP HORIZONTAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 BOTTOM HORIZONTAL: 2" X 2" X 3/16" ANGLE (44W)

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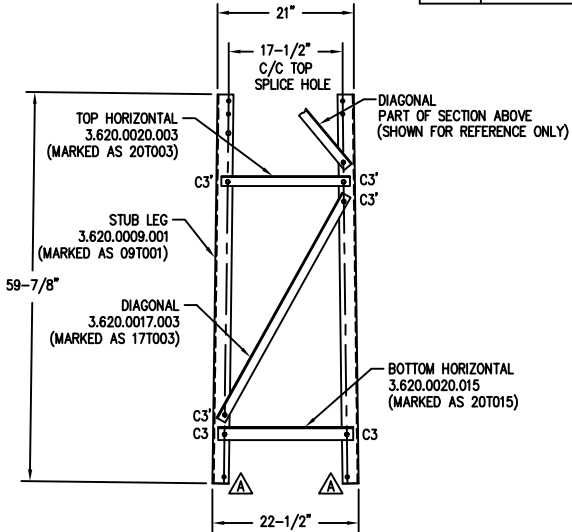
DRAWING NO. 000001.620.0015

CUSTOMER: SITE: SCALE: 15.000

DATE: 23 JAN 03 BY: AL CHK: MAW APP: JB

TITLE: ASSEMBLY OF FND SECTION 3F

| BOLT SCHEDULE | | |
|---------------|--------------------------|-----|
| MARK | SIZE | QTY |
| C3' | 1/2" x 1-1/2" A325 + F/W | 12 |
| C3 | 1/2" x 1-1/2" A325 | 6 |



KNOCK-DOWN SECTION #4F - KIT #5.81.0204.000


NOTES: LEG : 2-1/2" X 2-1/2" X 3/16" ANGLE (50W)
 DIAGONAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 TOP HORIZONTAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 BOTTOM HORIZONTAL: 2" X 2" X 3/16" ANGLE (44W)

| REV. | BY: | BY: | DESCRIPTION | DATE |
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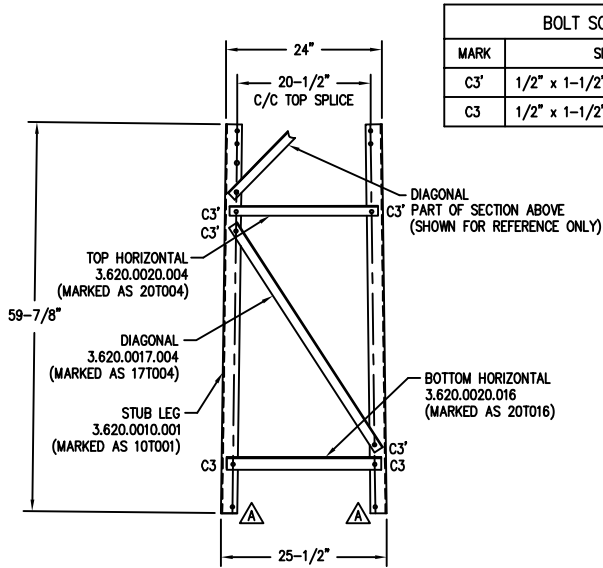


DRAWING NO. 000001.620.0016

CUSTOMER: SITE: SCALE: 15.000

DATE: 23 JAN 03 BY: AL CHK: MAW APP: JB

TITLE: ASSEMBLY OF FND SECTION 4F



| BOLT SCHEDULE | | |
|---------------|--------------------------|-----|
| MARK | SIZE | QTY |
| C3' | 1/2" x 1-1/2" A325 + F/W | 12 |
| C3 | 1/2" x 1-1/2" A325 | 6 |


KNOCK-DOWN SECTION #5F - KIT #5.81.0205.000

NOTES: LEG : 2-1/2" X 2-1/2" X 3/16" ANGLE (50W)
 DIAGONAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 TOP HORIZONTAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 BOTTOM HORIZONTAL: 2" X 2" X 3/16" ANGLE (44W)

| REV. | BY: | BY: | DESCRIPTION | DATE |
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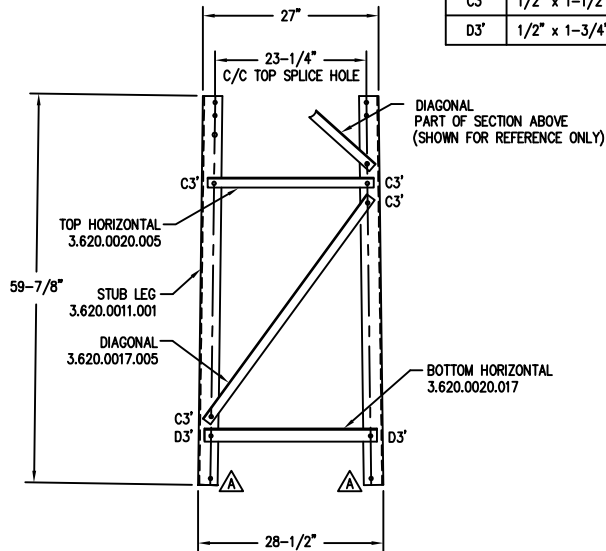


DRAWING NO. 000001.620.0017

CUSTOMER: SITE: SCALE: 15.000

DATE: 23 JAN 03 BY: AL CHK: MAW APP: JB

TITLE: ASSEMBLY OF FND SECTION 5F



| BOLT SCHEDULE | | |
|---------------|--------------------------|-----|
| MARK | SIZE | QTY |
| C3' | 1/2" x 1-1/2" A325 + F/W | 12 |
| D3' | 1/2" x 1-3/4" A325 + F/W | 6 |


Knock-Down Section #6F - Kit #5.81.0206.000

NOTES: LEG: 3" X 3" X 1/4" ANGLE (50W)
 DIAGONAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 TOP HORIZONTAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 BOTTOM HORIZONTAL: 2" X 2" X 3/16" ANGLE (44W)

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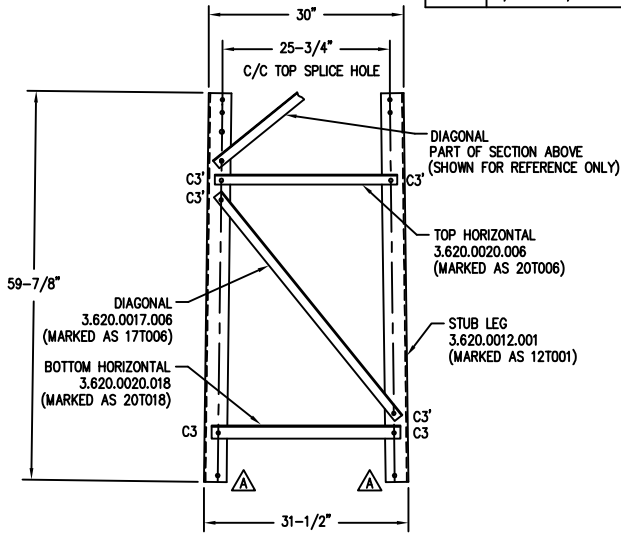
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CUSTOMER: SITE: SCALE: 15.000

DATE: 23 JAN 03 BY: AL CHK: MAW APP: JB

TITLE: ASSEMBLY OF FND SECTION 6F

| BOLT SCHEDULE | | |
|---------------|--------------------------|-----|
| MARK | SIZE | QTY |
| C3' | 1/2" x 1-1/2" A325 + F/W | 12 |
| C3 | 1/2" x 1-1/2" A325 | 6 |



KNOCK-DOWN SECTION #7F - KIT #5.81.0207.000

NOTES: LEG : 3-1/2" X 3-1/2" X 1/4" ANGLE (50W)
 DIAGONAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 TOP HORIZONTAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 BOTTOM HORIZONTAL: 2" X 2" X 3/16" ANGLE (44W)

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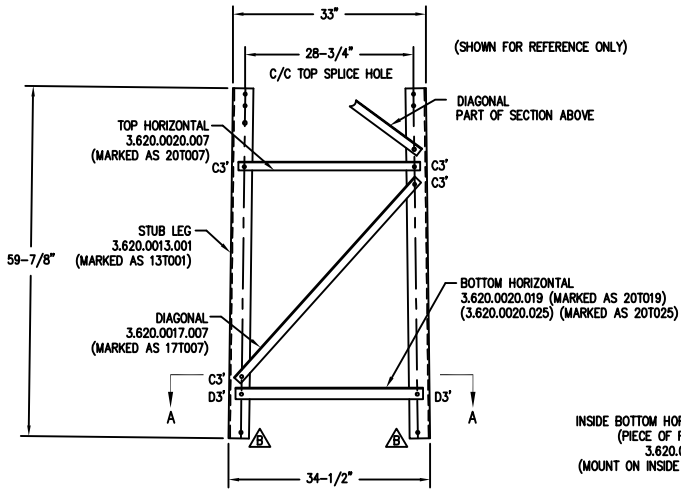
DRAWING NO. 000001.620.0019

CUSTOMER: SITE: SCALE: 15.000

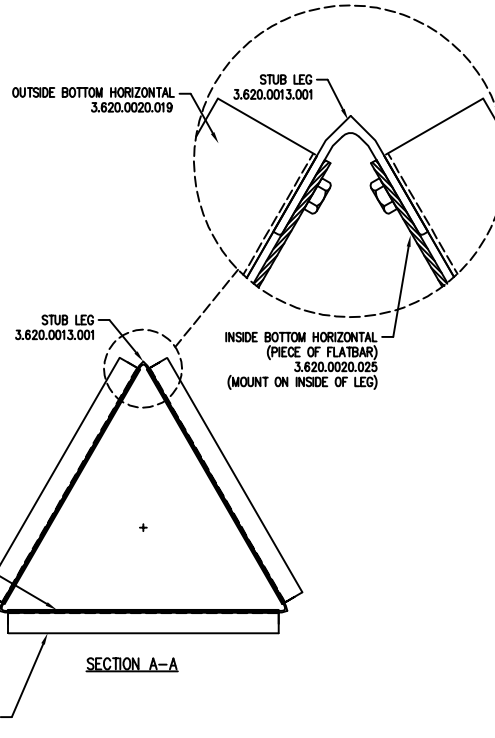
DATE: 23 JAN 03 BY: AL CHK: MAW APP: JB

TITLE: ASSEMBLY OF FND SECTION 7F

| BOLT SCHEDULE | | |
|---------------|--------------------------|-----|
| MARK | SIZE | QTY |
| C3' | 1/2" x 1-1/2" A325 + F/W | 12 |
| D3' | 1/2" x 1-3/4" A325 + F/W | 6 |



KNOCK-DOWN SECTION #8F - KIT #5.81.0208.000



NOTES: LEG: 3-1/2" X3-1/2" X 1/4" ANGLE (50W)
DIAGONAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
TOP HORIZONTAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
OUTSIDE BOTTOM HORIZONTAL: 2" X 2" X 3/16" ANGLE (44W)
INSIDE BOTTOM HORIZONTAL: 2" X 3/16" FLATBAR (44W)

| REV. | BY: | BY: | DESCRIPTION | DATE |
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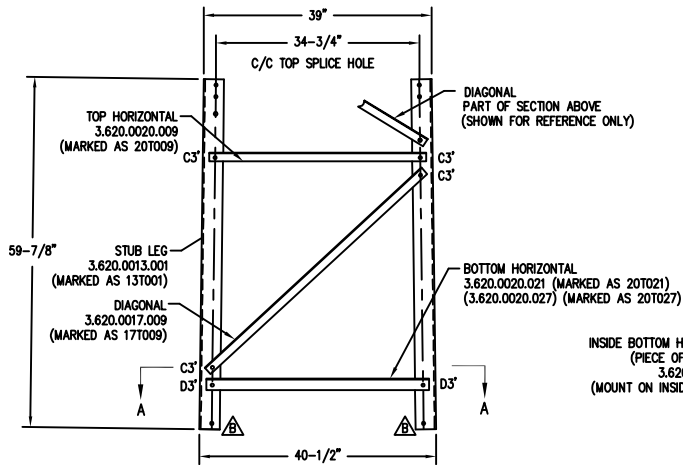
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CUSTOMER: SITE: SCALE: 15.000

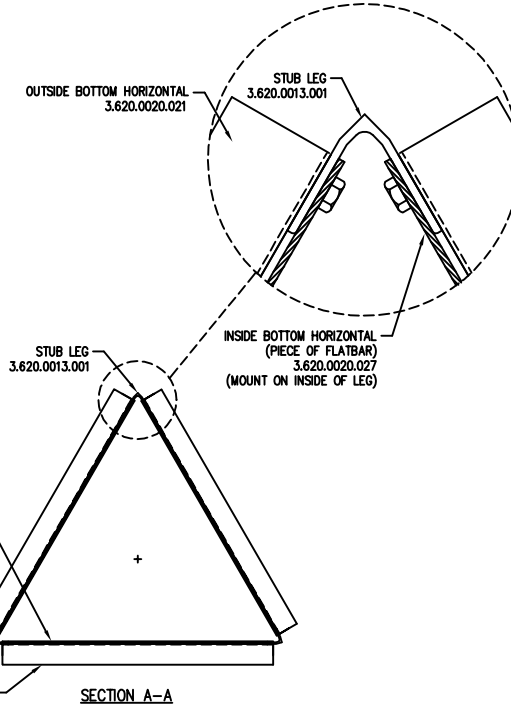
DATE: 23 JAN 03 BY: AL CHK: MAW APP: JB

TITLE: ASSEMBLY OF FND SECTION 8F

| BOLT SCHEDULE | | |
|---------------|--------------------------|-----|
| MARK | SIZE | QTY |
| C3* | 1/2" x 1-1/2" A325 + F/W | 12 |
| D3* | 1/2" x 1-3/4" A325 + F/W | 6 |



KNOCK-DOWN SECTION #10F - KIT #5.81.0210.000



NOTES: LEG: 3-1/2" X 3-1/2" X 1/4" ANGLE (50W)
DIAGONAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
TOP HORIZONTAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
OUTSIDE BOTTOM HORIZONTAL: 2" X 2" X 3/16" ANGLE (44W)
INSIDE BOTTOM HORIZONTAL: 2" X 3/16" FLATBAR (44W)

| REV. | BY: | BY: | DESCRIPTION | DATE |
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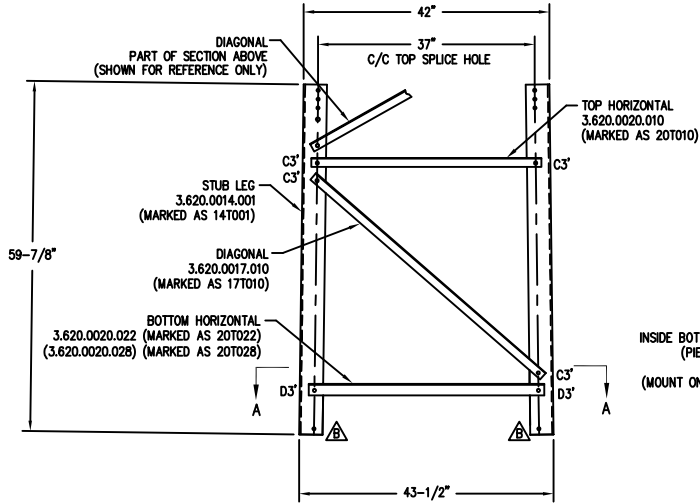
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CUSTOMER: SITE: SCALE: 15.000

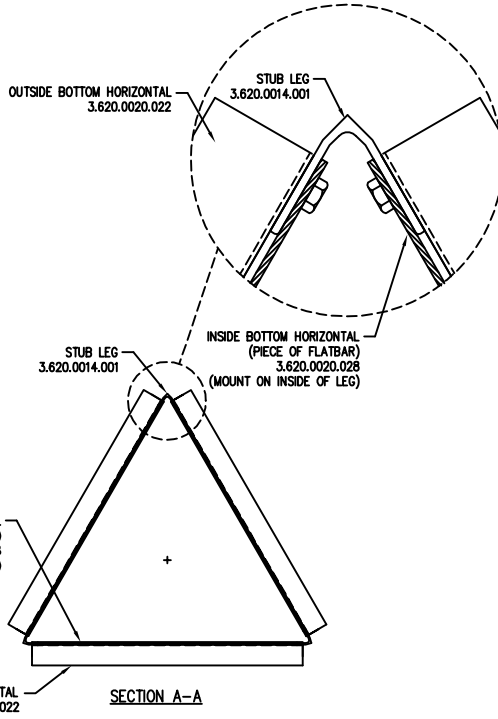
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|-----------------|--------|----------|---------|
| DATE: 23 JAN 03 | BY: AL | CHK: MAW | APP: JB |
|-----------------|--------|----------|---------|

TITLE: ASSEMBLY OF FND SECTION 10F

| BOLT SCHEDULE | | |
|---------------|--------------------------|-----|
| MARK | SIZE | QTY |
| C3' | 1/2" x 1-1/2" A325 + F/W | 12 |
| D3' | 1/2" x 1-3/4" A325 + F/W | 6 |



KNOCK-DOWN SECTION #11F - KIT #5.81.0211.000



NOTES: LEG : 4" X 4" X 1/4" ANGLE (50W)
 DIAGONAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 TOP HORIZONTAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 OUTSIDE BOTTOM HORIZONTAL: 2" X 2" X 3/16" ANGLE (44W)
 INSIDE BOTTOM HORIZONTAL: 2" X 3/16" FLATBAR (44W)

| REV. | BY: | BY: | DESCRIPTION | DATE |
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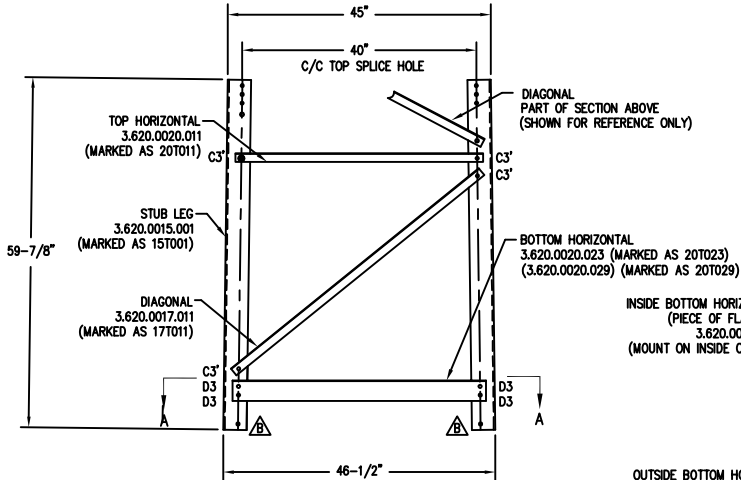
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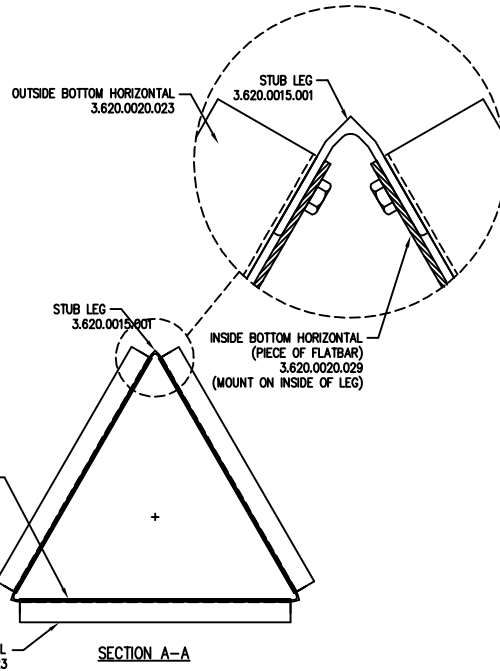
DATE: 23 JAN 03 BY: AL CHK: MAW APP: JB

TITLE: ASSEMBLY OF FND SECTION 11F

| BOLT SCHEDULE | | |
|---------------|--------------------------|-----|
| MARK | SIZE | QTY |
| C3 | 1/2" x 1-1/2" A325 + F/W | 12 |
| D3 | 1/2" x 1-3/4" A325 | 12 |



KNOCK-DOWN SECTION #12F - KIT #5.81.0212.000



NOTES: LEG: 4" X4" X 1/4" ANGLE (50W)

DIAGONAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)

TOP HORIZONTAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)

OUTSIDE BOTTOM HORIZONTAL: 3-1/2" X 3-1/2" X 1/4" ANGLE (44W)

INSIDE BOTTOM HORIZONTAL: 3-1/2" X 1/4" FLATBAR (44W)

| REV. | BY: | BY: | DESCRIPTION | DATE |
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DRAWING NO.
000001.620.0024

SITE: SCALE: 15.000

DATE: 23 JAN 03 BY: AL CHK: MAW APP: JB

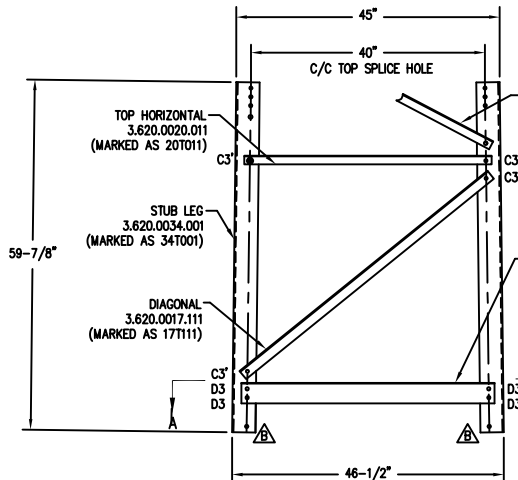
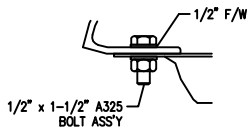
TITLE:
ASSEMBLY OF FND SECTION 12F

BOLT SCHEDULE

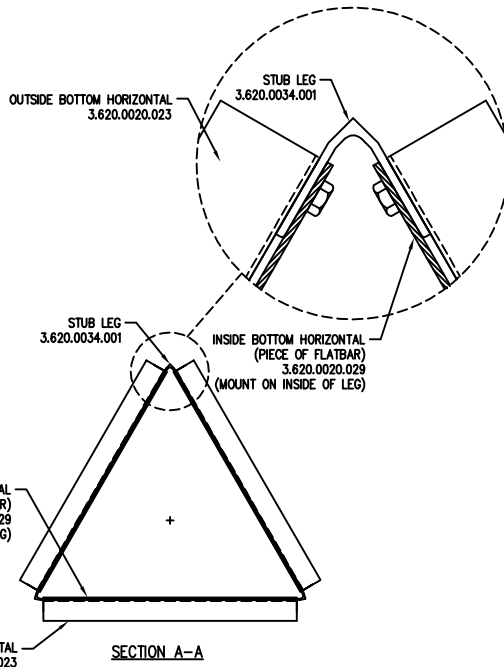
| MARK | SIZE | QTY |
|------|--------------------------|-----|
| C3' | 1/2" x 1-1/2" A325 + F/W | 12 |
| D3 | 1/2" x 1-3/4" A325 | 12 |

ASSEMBLY OF FOUNDATION SECTION 12FHD

TOWER MEMBER CONN.



KNOCK-DOWN SECTION #12FHD - KIT #5.81.0212.OHD



| REV. | BY: | BY: | DESCRIPTION | DATE |
|------|------|------|-------------|------|
| REV. | REV. | CHK. | | |
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NOTES: LEG: 4" X4" X 5/16" ANGLE (50W)
 DIAGONAL: 1-3/4" X 1-3/4" X 1-1/2" X 3/16" ANGLE (44W)
 TOP HORIZONTAL: 1-1/2" X 1-1/2" X 1/8" ANGLE (44W)
 OUTSIDE BOTTOM HORIZONTAL: 3-1/2" X 3-1/2" X 1/4" ANGLE (44W)
 INSIDE BOTTOM HORIZONTAL: 3-1/2" X 1/4" FLATBAR (44W)

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Trylon

DRAWING NO. 000001.620.0028

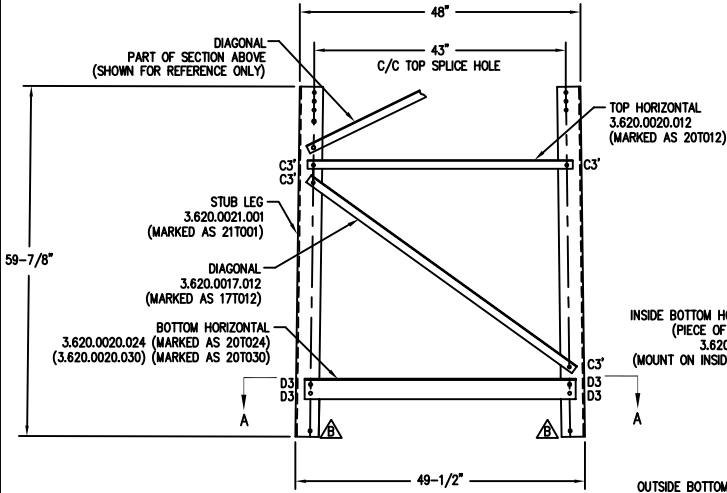
CUSTOMER: SITE: SCALE: 15,000

DATE: 01 JUN 05 BY: MRH CHK: JAG APP: JB

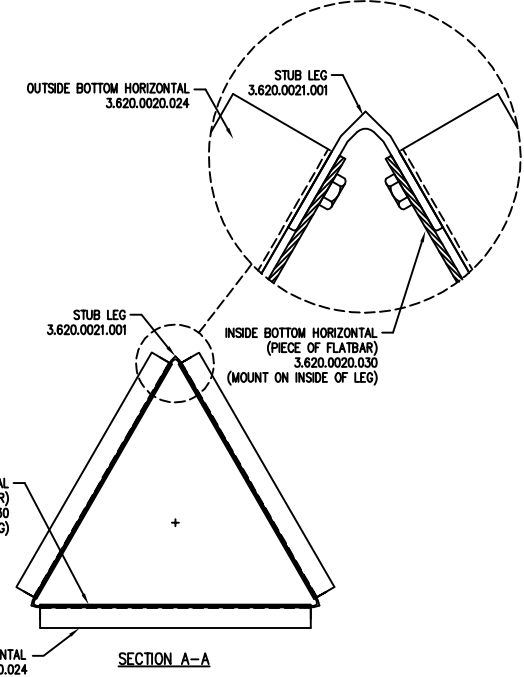
TITLE: ASSEMBLY OF FND SECTION 12FHD

BOLT SCHEDULE

| MARK | SIZE | QTY |
|------|--------------------------|-----|
| C3' | 1/2" x 1-1/2" A325 + F/W | 12 |
| D3 | 1/2" x 1-3/4" A325 | 12 |



KNOCK-DOWN SECTION #13F - KIT #5.81.0213.000



| REV. | BY: | BY: | DESCRIPTION | DATE |
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| REV. | CHK. | CHK. | | |
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Trylon

DRAWING NO. 000001.620.0025

CUSTOMER: SITE: SCALE: 15,000

DATE: 23 JAN 03 BY: AL CHK: MAW APP: JB

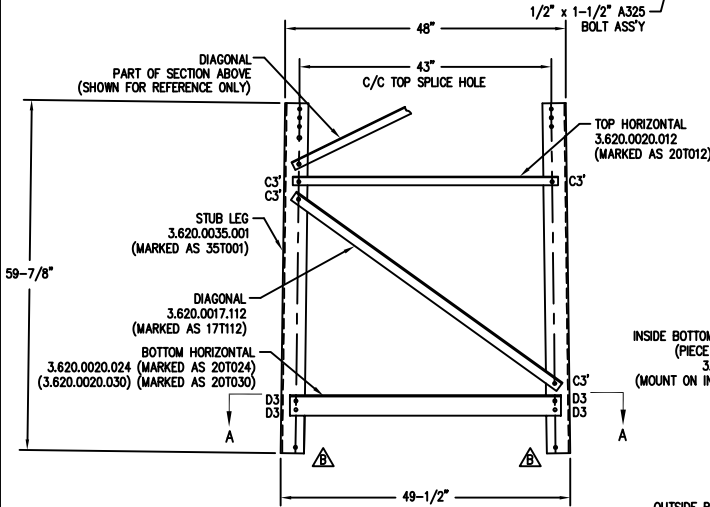
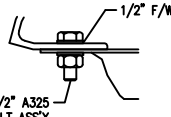
TITLE: ASSEMBLY OF FND SECTION 13F

NOTES: LEG : 4" x 4" x 1/4" ANGLE (50W)
 DIAGONAL: 1-1/2" x 1-1/2" x 1/8" ANGLE (44W)
 TOP HORIZONTAL: 1-1/2" x 1-1/2" x 1/8" ANGLE (44W)
 OUTSIDE BOTTOM HORIZONTAL: 3-1/2" x 3-1/2" x 1/4" ANGLE (44W)
 INSIDE BOTTOM HORIZONTAL: 3-1/2" x 1/4" FLATBAR (44W)

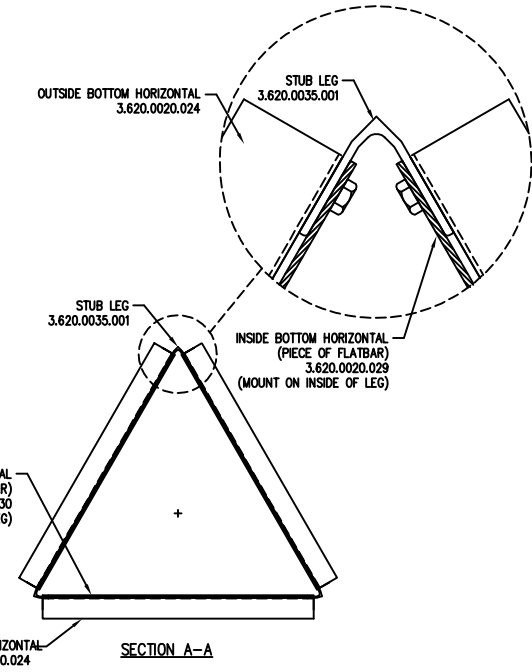
| BOLT SCHEDULE | | |
|---------------|--------------------------|-----|
| MARK | SIZE | QTY |
| C3* | 1/2" x 1-1/2" A325 + F/W | 12 |
| D3 | 1/2" x 1-3/4" A325 | 12 |

ASSEMBLY OF FOUNDATION SECTION 13FHD

TOWER MEMBER CONN.



KNOCK-DOWN SECTION #13FHD - KIT #5.81.0213.OHD



SECTION A-A

| REV. | BY: | BY: | DESCRIPTION | DATE |
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| REV. | CHK. | CHK. | | |
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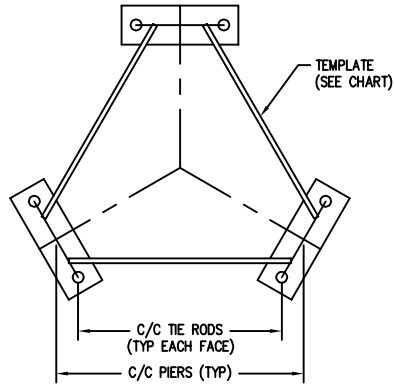
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CUSTOMER: SITE: SCALE: 15.000

DATE: 01 JUN 05 BY: MRH CHK: JAG APP: JB

TITLE: ASSEMBLY OF FND SECTION 13FHD

NOTES: LEG : 4" x 4" x 5/16" ANGLE (50W)
 DIAGONAL: 1-3/4" x 1-3/4" x 3/16" ANGLE (44W)
 TOP HORIZONTAL: 1-1/2" x 1-1/2" x 1/8" ANGLE (44W)
 OUTSIDE BOTTOM HORIZONTAL: 3-1/2" x 3-1/2" x 1/4" ANGLE (44W)
 INSIDE BOTTOM HORIZONTAL: 3-1/2" x 1/4" FLATBAR (44W)



| PART No. | SECTION No. | C/C PIERS | C/C TIE RODS |
|-----------------|-------------|-----------|--------------|
| 3.620.0031.001A | 2F | 13-3/4" | 9-1/4" |
| 3.620.0031.002A | 3F | 16-3/4" | 12-1/4" |
| 3.620.0031.003A | 4F | 19-3/4" | 15-1/4" |
| 3.620.0031.004A | 5F | 22-3/4" | 18-1/4" |
| 3.620.0031.005A | 6F | 25-3/8" | 20-7/8" |
| 3.620.0031.006A | 7F | 28-1/16" | 23-9/16" |
| 3.620.0031.007A | 8F | 31-1/16" | 26-9/16" |
| 3.620.0031.008A | 9F | 34-1/16" | 29-9/16" |
| 3.620.0031.009A | 10F | 37-1/16" | 32-9/16" |
| 3.620.0031.010A | 11F | 39-13/16" | 35-5/16" |
| 3.620.0031.011A | 12F | 42-13/16" | 38-5/16" |
| 3.620.0031.012A | 13F | 45-13/16" | 41-5/16" |

NOTES:

| REV. | BY: | BY: | DESCRIPTION | DATE |
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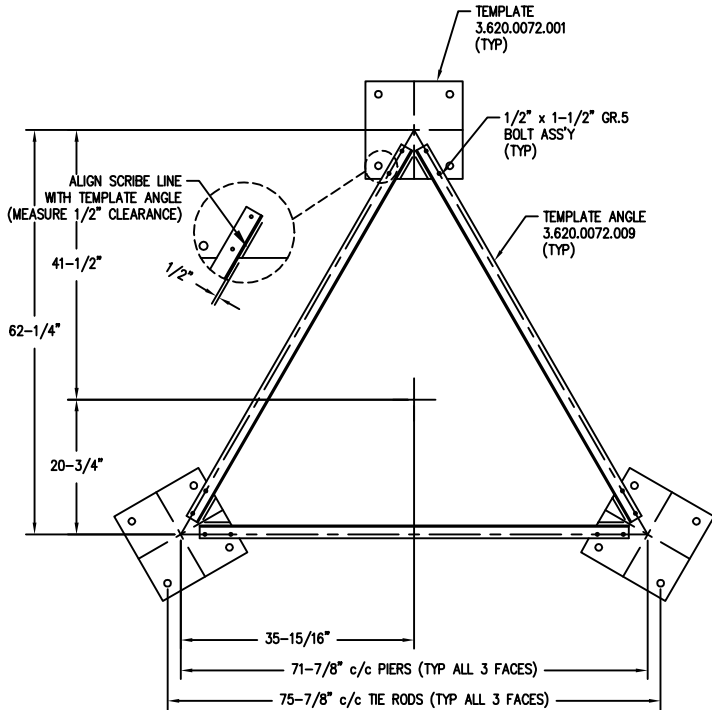
Trylon

DRAWING NO. 000001.620.0054

CUSTOMER: SITE: SCALE: 10.000

DATE: 21 OCT 03 BY: MAW CHK: MS APP: BZ

TITLE: BASE FEET TEMP. #2-#12HD



NOTES: 1) FOUNDATION CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO POURING CONCRETE.


KIT #4.79.0000.515

| REV. | BY: | BY: | DESCRIPTION | DATE |
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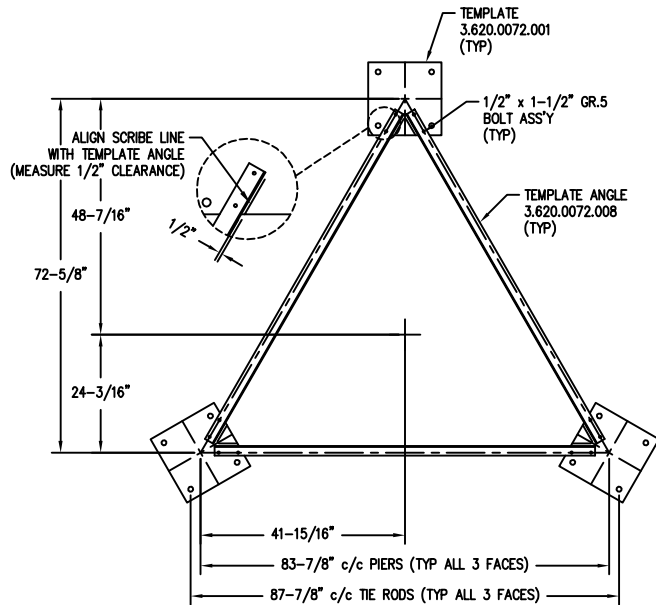


Trylon
 DRAWING NO.
 000001.620.0102

CUSTOMER: SITE: SCALE: 15.000

DATE: 12 NOV 04 BY: MAW CHK: JAG APP: JB

TITLE: SECTION 14 TEMPLATE



NOTES: 1) FOUNDATION CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO POURING CONCRETE.

KIT #4.79.0000.516

| REV. | BY: | BY: | DESCRIPTION | DATE |
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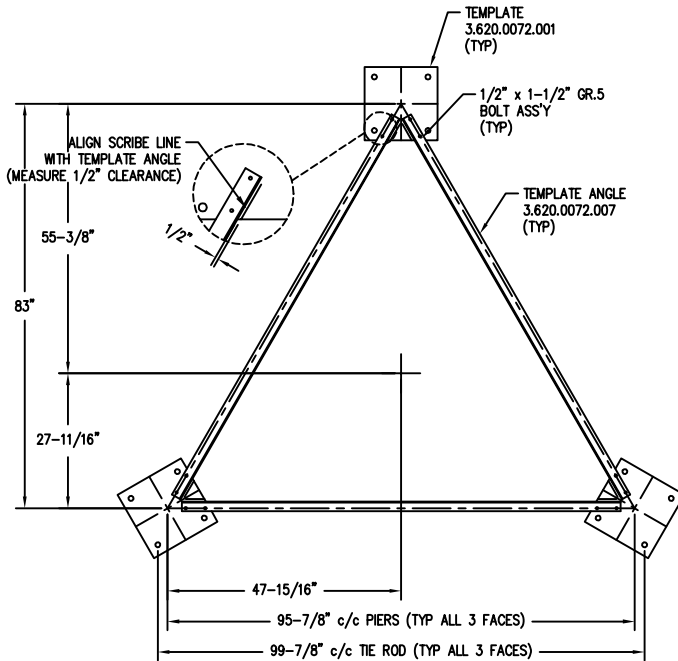
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DRAWING NO. 000001.620.0103

CUSTOMER: SITE: SCALE: 20.000

DATE: 12 NOV 04 BY: MAW CHK: JAG APP: JB

TITLE: SECTION 15 TEMPLATE



NOTES: 1) FOUNDATION CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO POURING CONCRETE.


KIT #4.79.0000.517

| REV. | BY: | BY: | DESCRIPTION | DATE |
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| REV. | CHK. | CHK. | | |
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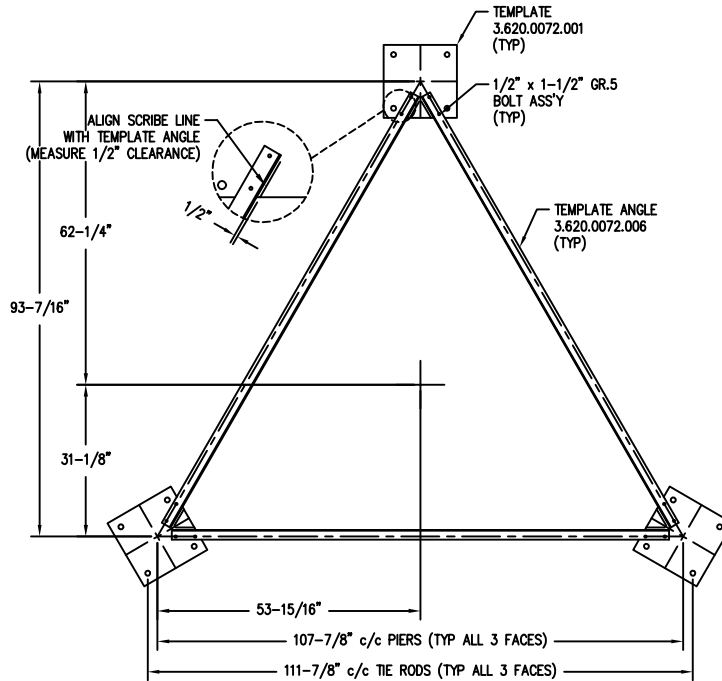


DRAWING NO. 000001.620.0104

CUSTOMER: SITE: SCALE: 20,000

DATE: 12 NOV 04 BY: MAW CHK: JAG APP: JB

TITLE: SECTION 16 TEMPLATE



NOTES: 1) FOUNDATION CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO POURING CONCRETE.


KIT #4.79.0000.518

| REV. | BY: | BY: | DESCRIPTION | DATE |
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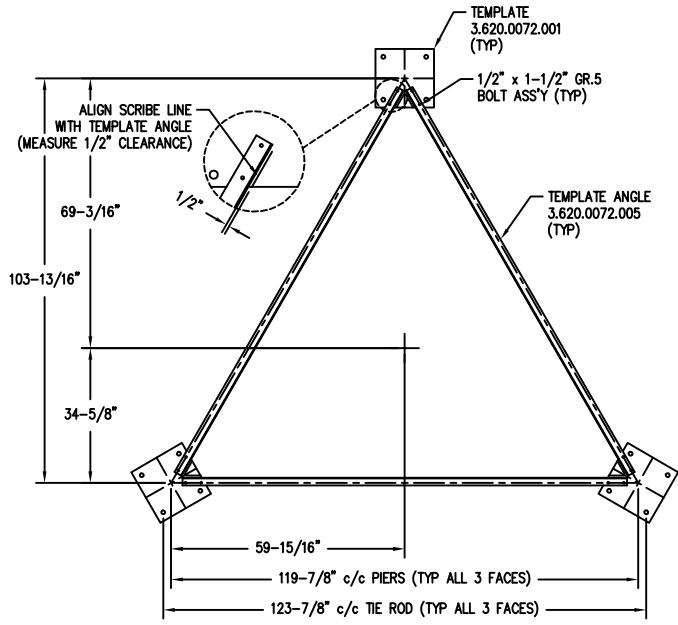
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DRAWING NO. 000001.620.0105

CUSTOMER: SITE: SCALE: 20,000

DATE: 12 NOV 04 BY: MAW CHK: JAG APP: JB

TITLE: SECTION 17 TEMPLATE



NOTES: 1) FOUNDATION CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO POURING CONCRETE.


KIT #4.79.0000.519

| REV. | BY: | BY: | DESCRIPTION | DATE |
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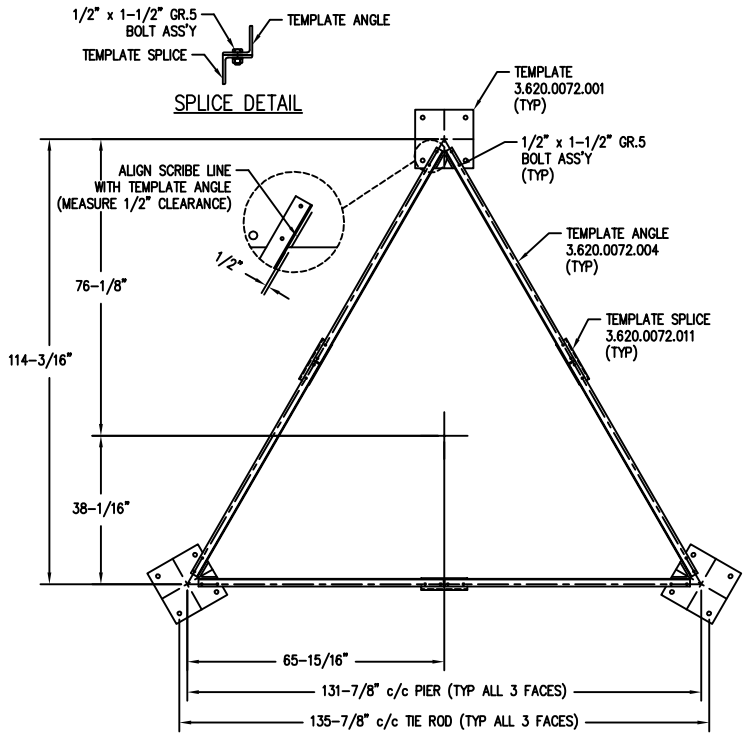
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DRAWING NO. 000001.620.0106
 CUSTOMER: SITE: SCALE: 25.000
 DATE: 12 NOV 04 BY: MAW CHK: JAG APP: JB
 TITLE: SECTION 18 TEMPLATE




NOTES: 1) FOUNDATION CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO POURING CONCRETE.

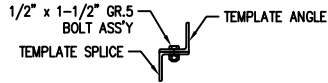
KIT #4.79.0000.520

| REV. | BY: | BY: | DESCRIPTION | DATE |
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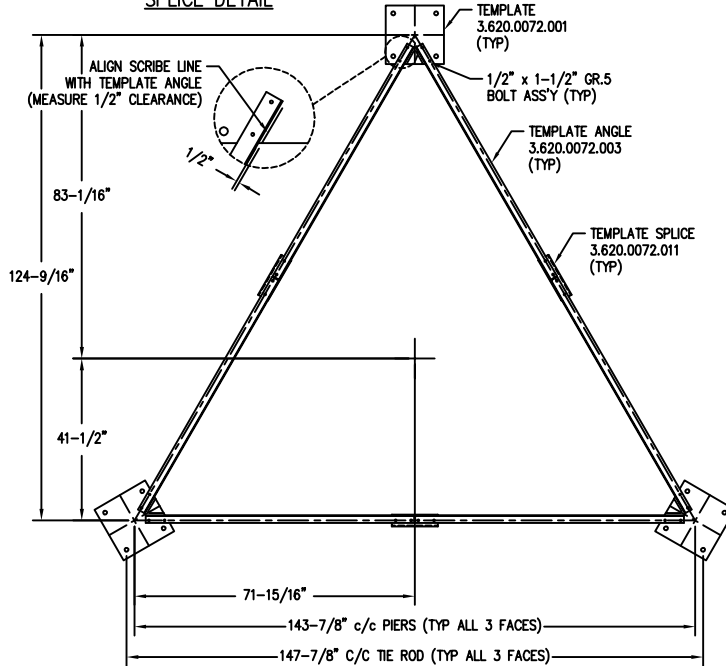
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| | DRAWING NO. 000001.620.0107 | |
| CUSTOMER: | SITE: | SCALE: 25,000 |
| DATE: 12 NOV 04 | BY: MAW | CHK: JAG |
| TITLE: SECTION 19 TEMPLATE | APP: JB | |



SPLICE DETAIL




| REV. | BY: | BY: | DESCRIPTION | DATE |
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DRAWING NO. 000001.620.0108

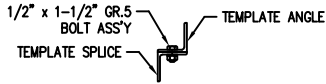
CUSTOMER: SITE: SCALE: 25,000

DATE: 12 NOV 04 BY: MAW CHK: APP:

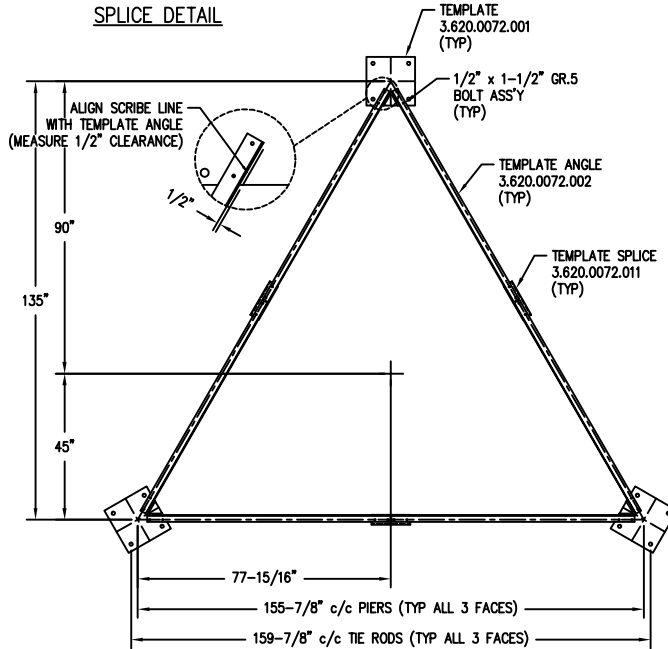
TITLE: SECTION 20 TEMPLATE

NOTES: 1) FOUNDATION CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO POURING CONCRETE.

KIT #4.79.0000.521



SPLICE DETAIL




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DRAWING NO. 000001.620.0109

CUSTOMER: SITE: SCALE: 30,000

DATE: 09 NOV 04 BY: MAW CHK: APP:

TITLE: SECTION 21 TEMPLATE ASS'Y

NOTES: 1) FOUNDATION CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO POURING CONCRETE.

KIT #4.79.0000.522

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FOUNDATION NOTES:

GENERAL:

- 1) THE CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS AND DETAILS BEFORE PROCEEDING WITH THE WORK.
- 2) ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST ISSUE OF ACI STANDARDS.
- 3) FOUNDATIONS ARE DESIGNED FOR NORMAL DRY SOIL CONDITIONS.
- 4) NORMAL DRY SOIL CONDITIONS ARE ASSUMED WITH AN ALLOWABLE BEARING CAPACITY OF 3500psf. THESE CONDITIONS SHOULD BE VERIFIED ON SITE BY A GEOTECHNICAL CONSULTANT WHEN THE BEARING SURFACE IS EXPOSED. NOTIFY ENGINEER IF SITE CONDITIONS DO NOT COMPLY WITH DESIGN CONDITIONS.
- 5) THE TOWER BASE PAD SHALL BE PLACED AGAINST UNDISTURBED SOIL.
- 6) ALL GALVANIZED STEEL IN CONTACT WITH SOIL IS TO BE COATED WITH ROOF PATCH.

CONCRETE:

- 1) CONCRETE CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF STANDARD ACI-318.
- 2) CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF NOT LESS THAN 3600 psi.
- 3) CONCRETE SHALL CONTAIN AN AIR ENTRAINING AGENT. TOTAL AIR CONTENT TO BE 5% TO 7% FOR THE SIZE OF AGGREGATE BEING USED. THE AIR ENTRAINING AGENT SHALL BE COMPATIBLE WITH THE WATER REDUCING AGENT.
- 4) THE MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 3/4".
- 5) THE USE CALCIUM CHLORIDE OR ACCELERATING ADMIXTURES IS PROHIBITED.
- 6) SLUMP SHALL BE 3" ± 1".
- 7) IF THE AIR TEMPERATURE IS 41 DEGREES F OR LESS, THE TEMPERATURE OF THE CONCRETE AT TIME OF PLACING SHALL BE BETWEEN 59 AND 86 DEGREES F.
- 8) PROVIDE EFFECTIVE MEANS OF MAINTAINING THE TEMPERATURE OF CONCRETE IN PLACE AT A MINIMUM OF 50 DEGREES F AND A MAXIMUM OF 86 DEGREES F FOR THREE DAYS AFTER PLACING. WHEN THE MEAN DAILY AIR TEMPERATURE IS LESS THAN 41 DEGREES F PROVIDE PROTECTION FOR NEWLY PLACED CONCRETE BY MEANS OF SUITABLE ENCLOSURES OR RAISED COVERINGS, HEAT AND INSULATION.
- 9) CHAMFER EXPOSED CORNERS OF CONCRETE (APPROX. 3/4").

REINFORCEMENT:

- 1) CLEAN REINFORCEMENT OF ANY LOOSE SCALE, DIRT OR OTHER COATINGS WHICH WOULD DESTROY OR REDUCE BONDING. REJECT BARS WITH KINKS OR BENDS NOT SHOWN ON THE FOUNDATION DETAILS.
- 2) ALL REINFORCEMENT SHALL HAVE A MINIMUM OF 3" CONCRETE COVER.
- 3) REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING WITH ASTM A615 (GRADE 60).

BACKFILLING:

- 1) BACKFILL SHALL BE PLACED IN THIN LIFTS (MAXIMUM 6") AND COMPACTED TO A MINIMUM OF 95 PERCENT OF STANDARD PROCTOR MAXIMUM DRY DENSITY. IN THE EVENT THAT EXCAVATED MATERIALS ARE NOT SUITABLE FOR BACKFILL, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY AND COMPACT SUITABLE CLEAN MATERIAL TO MEET THAT REQUIREMENT.

STANDARDS:


- 1) FOUNDATIONS ARE DESIGNED IN ACCORDANCE WITH EIA-222-F.
- 2) CONCRETE WORK SHALL BE ACCORDANCE WITH ACI 318.
- 3) REINFORCEMENT FOR CONCRETE SHALL BE IN ACCORDANCE WITH ACI 318.

NOTES:1) THESE NOTES ARE TO BE USED WITH FOUNDATION DETAILS SHOWN ON DWG. 000001.620.0050.

| REV. | BY: REV. | BY: CHK. | DESCRIPTION | DATE |
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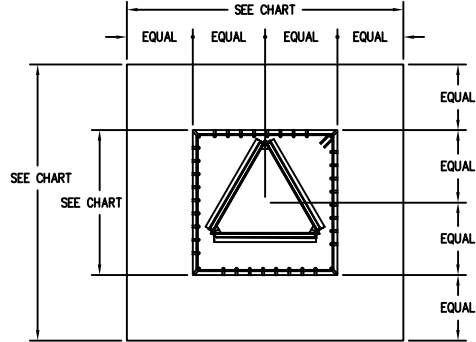
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| CUSTOMER: | DRAWING NO. 000001.620.0051 | | | | |
| DATE: 24 APR 03 | BY: MAW | CHK: BCP | APP: JB | SITE: | SCALE: 1.000 |
| TITLE: EIA FOUNDATION NOTES | | | | | |

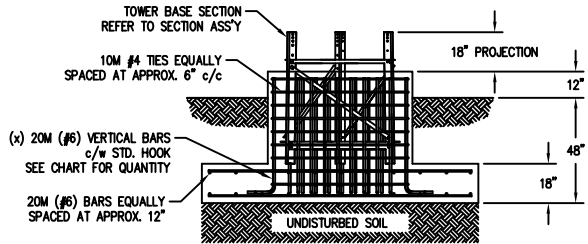
SUPER TITAN SS CONCRETE FOUNDATION – TOWERS WITH BOTTOM SECT #2-12HD

SINGLE PAD DESIGN WITH 1 PIER

(SHALLOW EXCAVATION DEPTH, (1) LARGE AREA)



| IF BOTTOM TOWER SECTION IS: | FOUNDATION PAD SIZE (FT) | PIER SIZE (FT) | VERTICAL PIER BAR (X) | CUBIS YARDS CONCRETE | | |
|-----------------------------|--------------------------|----------------|-----------------------|----------------------|----------------------|--------------|
| | | | | PAD CONCRETE VOLUME | PIER CONCRETE VOLUME | TOTAL VOLUME |
| #12 / 12HD | 10'-6" x 10'-6" | 5'-6" x 5'-6" | 36 | 6.1 | 3.9 | 10.0 |
| #11 | 10'-0" x 10'-0" | 5'-6" x 5'-6" | 36 | 5.6 | 3.9 | 9.5 |
| #10 | 9'-6" x 9'-6" | 5'-0" x 5'-0" | 30 | 5.0 | 3.2 | 8.2 |
| #9 | 9'-0" x 9'-0" | 5'-0" x 5'-0" | 30 | 4.5 | 3.2 | 7.7 |
| #8 | 8'-6" x 8'-6" | 4'-6" x 4'-6" | 26 | 4.0 | 2.6 | 6.6 |
| #7 | 7'-6" x 7'-6" | 4'-6" x 4'-6" | 26 | 3.1 | 2.6 | 5.7 |
| #6 | 7'-0" x 7'-0" | 4'-0" x 4'-0" | 20 | 2.7 | 2.1 | 4.8 |
| #5 | 6'-6" x 6'-6" | 4'-0" x 4'-0" | 20 | 2.4 | 2.1 | 4.5 |
| #4 | 6'-6" x 6'-6" | 4'-0" x 4'-0" | 20 | 2.4 | 2.1 | 4.5 |
| #3 | 6'-6" x 6'-6" | 4'-0" x 4'-0" | 20 | 2.4 | 2.1 | 4.5 |
| #2 | 6'-0" x 6'-0" | 4'-0" x 4'-0" | 20 | 2.0 | 2.1 | 4.1 |




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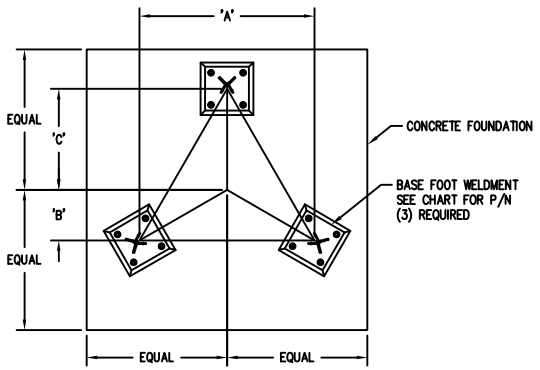
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 DRAWING NO. 000001.620.0050
 CUSTOMER: SITE: SCALE: 40,000

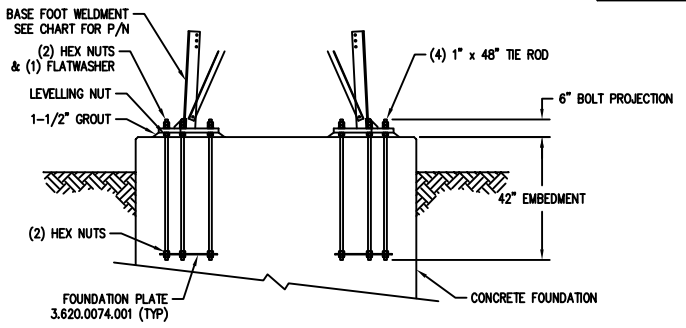
DATE: 28 MAR 08 BY: MRH CHK: APP:

TITLE: EIA – REGULAR FND – NDS

- NOTES:
- 1) BASED ON NORMAL DRY SOIL
 - 2) ALLOWABLE BEARING CAPACITY: 3500 psf
 - 3) DRY DENSITY OF BACKFILL MATERIAL: 100pcf (COMPACT TO 95% SPD)
 - 4) REBAR – DEFORMED BARS GRADE 60
 - 5) MINIMUM 28 DAY CONCRETE STRENGTH 3600 psi



| KIT NUMBER w/ TIE RODS | KIT NUMBER w/o TIE RODS | FITS TOWER SECTION NUMBER | 'a' | 'b' | 'c' | BASE FOOT WELDMENT P/N |
|---------------------------|----------------------------|------------------------------|----------|-----------|----------|---------------------------|
| | | | | | | |
| 4.79.0000.014 | 4.79.0000.314 | 13 | 59-7/8" | 17-1/4" | 34-9/16" | 3.620.0062.001 |
| 4.79.0000.015 | 4.79.0000.315 | 14 | 71-7/8" | 20-3/4" | 41-1/2" | 3.620.0062.001 |
| 4.79.0000.016 | 4.79.0000.316 | 15 | 83-7/8" | 24-3/16" | 48-7/16" | 3.620.0062.001 |
| 4.79.0000.017 | 4.79.0000.317 | 16 | 95-7/8" | 27-11/16" | 55-3/8" | 3.620.0062.001 |
| 4.79.0000.018 | 4.79.0000.318 | 17 | 107-7/8" | 31-1/8" | 62-1/4" | 3.620.0062.001 |
| 4.79.0000.019 | 4.79.0000.319 | 18 | 119-7/8" | 34-5/8" | 69-3/16" | 3.620.0061.001 |
| 4.79.0000.020 | 4.79.0000.320 | 19 | 131-7/8" | 38-1/16" | 76-1/8" | 3.620.0061.001 |
| 4.79.0000.021 | 4.79.0000.321 | 20 | 143-7/8" | 41-1/2" | 83-1/16" | 3.620.0061.001 |
| 4.79.0000.022 | 4.79.0000.322 | 21 | 155-7/8" | 45" | 90" | 3.620.0061.001 |



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DRAWING NO. 000001.620.0067

CUSTOMER: SITE: SCALE: 30.000

DATE: 10 JUN 04 BY: CHK: APP:

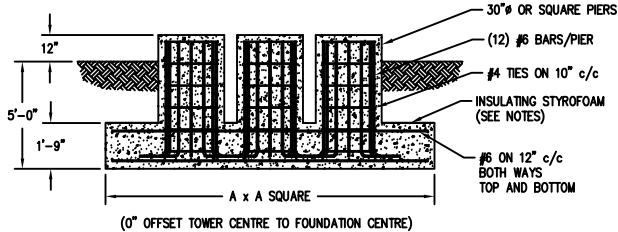
TITLE: TIE ROD ANCHOR INSTALLATION

NOTES: 1) USE TEMPLATE PROVIDED TO PROPERLY POSITION THE RODS.
 2) FOUNDATIONS MUST BE DESIGNED FOR SITE SPECIFIC SOIL CONDITIONS.

SUPER TITAN SS CONCRETE FOUNDATION – TOWERS WITH BOTTOM SECT #14–21

SINGLE PAD DESIGN WITH 3 PIERS

(SHALLOW EXCAVATION DEPTH, (1) LARGE AREA, FROST CONSIDERATIONS)



FOUNDATION NOTES:

GENERAL:

- 1) ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL STANDARDS.
- 2) FOUNDATIONS DESIGNED FOR NORMAL DRY SOIL CONDITIONS.
- 3) THE TOWER BASE PAD SHALL BE PLACED AGAINST UNDISTURBED SOIL.

CONCRETE:

- 1) CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF NOT LESS THAN 4000 psi.
- 2) CONCRETE SHALL CONTAIN AN AIR ENTRAINING AGENT.
- 3) THE MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 3/4in.
- 4) SLUMP SHALL BE 3in +/- 1in.
- 5) ALL GROUT SHALL BE NON-FERROUS AND NON SHRINK WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 psi AT 28 DAYS, EDGES GROUT SHALL BE TAPERED OFF AT 45°.

REINFORCEMENT:

- 1) ALL REINFORCEMENT SHALL HAVE A MINIMUM OF 3in CONCRETE COVER.
- 2) REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING WITH A MINIMUM YIELD OF 60 ksi.

BACKFILLING:

- 1) BACKFILL SHALL BE PLACED IN THIN LIFTS (MAXIMUM 6 INCHES) AND COMPACTED TO A MINIMUM OF 95 PERCENT OF STANDARD PROCTOR MAXIMUM DRY DENSITY. IN THE EVENT THAT EXCAVATED MATERIALS ARE NOT SUITABLE FOR BACKFILL, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY AND COMPACT SUITABLE CLEAN MATERIAL TO MEET THAT REQUIREMENT.

INSULATION:

- 1) WHERE FROST PENETRATION DEPTHS EXCEED 6ft PLACE INSULATING STYROFOAM ON SLAB EXTENDING 3ft PAST THE EDGE OF THE SLAB. HIGHLOAD 40 INSULATION BY DOW CHEMICALS IS RECOMMENDED.

| TOWER SECTION BOTTOM | A | CUBIC YARDS of CONCRETE | | | | | OVERTURNING MOMENT (KIPSFOT) | SHEAR (KIPS) | AXIAL (KIPS) |
|----------------------|--------|-------------------------|----------|---------|-----------|----------|------------------------------|--------------|--------------|
| | | PAD | RND PIER | SQ PIER | TOTAL RND | TOTAL SQ | | | |
| #14 | 12'-6" | 10.13 | 0.77 | 0.98 | 12.45 | 13.08 | 209.39 | 6.47 | 4.72 |
| #15 | 13'-6" | 11.81 | 0.77 | 0.98 | 14.13 | 14.76 | 260.37 | 7.81 | 5.46 |
| #16 | 14'-0" | 12.70 | 0.77 | 0.98 | 15.02 | 15.66 | 375.16 | 9.49 | 6.38 |
| #17 | 14'-6" | 13.63 | 0.77 | 0.98 | 15.95 | 16.58 | 350.72 | 9.17 | 6.71 |
| #18 | 15'-0" | 14.58 | 0.77 | 0.98 | 16.90 | 17.53 | 459.57 | 10.67 | 7.99 |
| #19 | 16'-0" | 16.59 | 0.77 | 0.98 | 18.91 | 19.54 | 580.67 | 12.19 | 9.25 |
| #20 | 17'-0" | 18.73 | 0.77 | 0.98 | 21.05 | 21.68 | 735.27 | 13.96 | 10.60 |
| #21 | 18'-0" | 21.00 | 0.77 | 0.98 | 23.32 | 23.95 | 885.16 | 15.54 | 11.91 |

- NOTES: 1) THEORETICAL CONCRETE VOLUMES GIVEN. ADD 10% TO THAT GIVEN WHEN ORDERING THE CONCRETE.
 2) BEFORE POURING CONCRETE, PLACE THE FOUNDATION TEMPLATE TO ENSURE FIT BETWEEN TEMPLATE AND PIERS.
 3) IF CONCRETE SAVINGS ARE DESIRED, PLEASE SEE OUR PAD AND PIER DESIGN ON DRAWING 1.620.0121.

| REV. | BY: | BY: | DESCRIPTION | DATE |
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DRAWING NO. 000001.620.0120

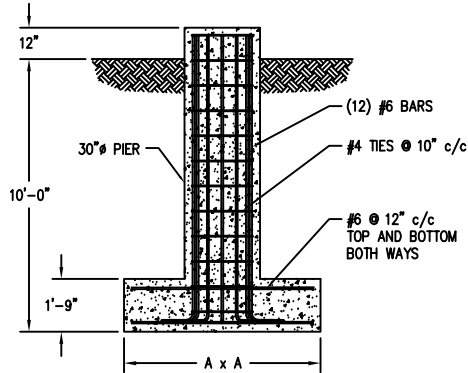
CUSTOMER: SITE: SCALE: 40,000

DATE: 28 MAR 08 BY: MRH CHK: APP:

TITLE: EIA SINGLE PAD 3 PIER NDS

SUPERTITAN S.S. FOUNDATION DESIGN – BASE SECTION #18 to #21

(PAD AND PIER; DEEP EXCAVATION DEPTH, (3) SMALL AREAS, NO FROST CONSIDERATIONS)



FOUNDATION NOTES:

GENERAL:

- 1) ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL STANDARDS.
- 2) FOUNDATIONS DESIGNED FOR NORMAL DRY SOIL CONDITIONS.
- 3) THE TOWER BASE PAD SHALL BE PLACED AGAINST UNDISTURBED SOIL.

CONCRETE:

- 1) CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF NOT LESS THAN 4000 psi.
- 2) CONCRETE SHALL CONTAIN AN AIR ENTRAINING AGENT.
- 3) THE MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 3/4 in. SLUMP SHALL BE 3 in +/- 1 in
- 4) ALL GROUT SHALL BE NON-FERROUS AND NON SHRINK WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 psi AT 28 DAYS, EDGES GROUT SHALL BE TAPERED OFF AT 45°.

REINFORCEMENT:

- 1) ALL REINFORCEMENT SHALL HAVE A MINIMUM OF 3 in CONCRETE COVER.
- 2) REINFORCING STEEL SHALL BE DEFORMED BARS WITH A MINIMUM YIELD OF 60 ksi.

BACKFILLING:

- 1) BACKFILL SHALL BE PLACED IN THIN LIFTS (MAXIMUM 6 INCHES) AND COMPACTED TO A MINIMUM OF 95 PERCENT OF STANDARD PROCTOR MAXIMUM DRY DENSITY. IN THE EVENT THAT EXCAVATED MATERIALS ARE NOT SUITABLE FOR BACKFILL, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY AND COMPACT SUITABLE CLEAN MATERIAL TO MEET THAT REQUIREMENT.


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| TOWER SECTION BOTTOM | A | CUBIC YARDS of CONCRETE (EACH) | | | | | OVERTURNING MOMENT (KIPSFT) | SHEAR (KIPS) | AXIAL (KIPS) |
|----------------------|-------|--------------------------------|----------|---------|-----------|----------|-----------------------------|--------------|--------------|
| | | PAD | RND PIER | SQ PIER | TOTAL RND | TOTAL SQ | | | |
| #14 | - | - | - | - | - | - | - | - | |
| #15 | - | - | - | - | - | - | - | - | |
| #16 | - | - | - | - | - | - | - | - | |
| #17 | - | - | - | - | - | - | - | - | |
| #18 | 7'-0" | 3.18 | 1.68 | 2.14 | 4.68 | 5.32 | 459.57 | 10.67 | 7.99 |
| #19 | 7'-6" | 3.65 | 1.68 | 2.14 | 5.33 | 5.79 | 580.67 | 12.19 | 9.25 |
| #20 | 8'-0" | 4.15 | 1.68 | 2.14 | 5.83 | 6.29 | 735.27 | 13.96 | 10.60 |
| #21 | 8'-6" | 4.68 | 1.68 | 2.14 | 6.36 | 6.82 | 885.16 | 15.54 | 11.91 |

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DRAWING NO. 000001.620.0126

CUSTOMER: SITE: SCALE: NTS

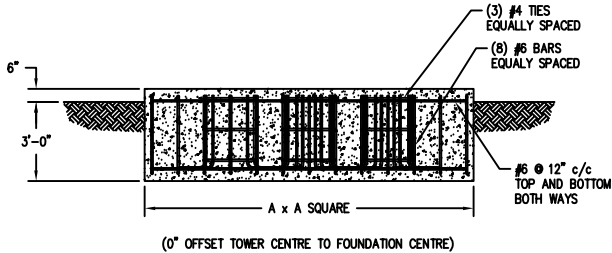
DATE: 28 MAR 08 BY: MRH CHK: APP:

TITLE: EIA PAD & PIER – NDS

- NOTES:
- 1) "-" THIS OPTION IS N/A IN TOWERS WITH SMALL FACE WIDTHS
 - 2) THEORETICAL CONCRETE VOLUMES GIVEN. ADD 10% TO THAT GIVEN WHEN ORDERING THE CONCRETE.
 - 3) BEFORE POURING CONCRETE, PLACE THE FOUNDATION TEMPLATE TO ENSURE FIT BETWEEN TEMPLATE AND PIERS.
 - 4) IF A SINGLE POUR WITH A BIG BLOCK OF CONCRETE IS DESIRED, SEE OUR DRAWING 01.620.0122. THAT DESIGN REQUIRES THAT NO FROST PENETRATION OCCURS.
 - 5) ANOTHER ALTERNATE DESIGN SEE DWG 01.620.0120 (RAFT DESIGN)

SUPERTITAN S.S. FOUNDATION DESIGN – BASE SECTION #14 to #21

(SURFACE RAFT; SHALLOW EXCAVATION DEPTH, (1) LARGE AREA, NO FROST PENETRATION REQUIRED)



FOUNDATION NOTES:

GENERAL:

- 1) ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL STANDARDS.
- 2) FOUNDATIONS DESIGNED FOR NORMAL DRY SOIL CONDITIONS.
- 3) THE TOWER BASE PAD SHALL BE PLACED AGAINST UNDISTURBED SOIL.

CONCRETE:

- 1) CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF NOT LESS THAN 4000 psi.
- 2) CONCRETE SHALL CONTAIN AN AIR ENTRAINING AGENT.
- 3) THE MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 3/4in.
- 4) SLUMP SHALL BE 3in +/- 1in.
- 5) ALL GROUT SHALL BE NON-FERROUS AND NON SHRINK WITH A MINIMUM COMPRESSIVE STRENGTH OF 5000 psi AT 28 DAYS, EDGES GROUT SHALL BE TAPERED OFF AT 45°.

REINFORCEMENT:

- 1) ALL REINFORCEMENT SHALL HAVE A MINIMUM OF 3in CONCRETE COVER.
- 2) REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING WITH A MINIMUM YIELD OF 60 ksi.
- 3) HORIZONTAL TIES MAY BE 40 ksi.

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THIS FOUNDATION IS NOT SUITABLE FOWHERE GROUND FROST PENETRATION IS EXPECTED.

| TOWER SECTION BOTTOM | A | CUBIC YARDS of CONCRETE | OVERTURNING MOMENT (KIPSFT) | SHEAR (KIPS) | AXIAL (KIPS) |
|----------------------|--------|-------------------------|-----------------------------|--------------|--------------|
| | | TOTAL | | | |
| #14 | 12'-6" | 20.25 | 209.39 | 6.47 | 4.72 |
| #15 | 13'-6" | 23.63 | 260.37 | 7.81 | 5.46 |
| #16 | 14'-0" | 25.41 | 375.16 | 9.49 | 6.38 |
| #17 | 14'-6" | 27.25 | 350.72 | 9.17 | 6.71 |
| #18 | 15'-0" | 29.17 | 459.57 | 10.67 | 7.99 |
| #19 | 16'-0" | 33.19 | 580.67 | 12.19 | 9.25 |
| #20 | 17'-0" | 37.46 | 735.27 | 13.96 | 10.60 |
| #21 | 18'-0" | 42.00 | 885.16 | 15.54 | 11.91 |

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DRAWING NO. 000001.620.0124

CUSTOMER: SITE: SCALE: 40,000

DATE: 28 MAR 08 BY: MRH CHK: APP:

TITLE: EIA SURFACE RAFT NDS

- NOTES: 1) THEORETICAL CONCRETE VOLUME GIVEN. ADD 10% TO THAT GIVEN WHEN ORDERING THE CONCRETE.
 2) BEFORE POURING CONCRETE, PLACE THE FOUNDATION TEMPLATE TO ENSURE FIT BETWEEN TEMPLATE c/c OF BASE ANCHORS.
 3) IF FROST PENETRATION OCCURS, AND CONCRETE SAVINGS ARE DESIRED SEE DRAWINGS 01.620.0120, AND/OR 01.620.0122.

FOUNDATION NOTES:

GENERAL:

- 1) THE CONTRACTOR SHALL FIELD CHECK ALL DIMENSIONS AND DETAILS BEFORE PROCEEDING WITH THE WORK.
- 2) ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST ISSUE OF CSA STANDARDS.
- 3) FOUNDATIONS ARE DESIGNED FOR NORMAL DRY SOIL CONDITIONS.
- 4) NORMAL DRY SOIL CONDITIONS ARE ASSUMED WITH AN ALLOWABLE BEARING CAPACITY OF 150 KP_a. THESE CONDITIONS SHOULD BE VERIFIED ON SITE BY A GEOTECHNICAL CONSULTANT WHEN THE BEARING SURFACE IS EXPOSED. NOTIFY ENGINEER IF SITE CONDITIONS DO NOT COMPLY WITH DESIGN CONDITIONS.
- 5) THE TOWER BASE PAD SHALL BE PLACED AGAINST UNDISTURBED SOIL.
- 6) ALL GALVANIZED STEEL IN CONTACT WITH SOIL IS TO BE COATED WITH ROOF PATCH.

CONCRETE:

- 1) CONCRETE CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF CSA STANDARD CAN3-A23.3.
- 2) CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF NOT LESS THAN 25 MP_a.
- 3) CONCRETE SHALL CONTAIN AN AIR ENTRAINING AGENT. TOTAL AIR CONTENT TO BE 5% TO 7% FOR THE SIZE OF AGGREGATE BEING USED. THE AIR ENTRAINING AGENT SHALL BE COMPATIBLE WITH THE WATER REDUCING AGENT.
- 4) THE MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 19mm.
- 5) THE USE CALCIUM CHLORIDE OR ACCELERATING ADMIXTURES IS PROHIBITED.
- 6) SLUMP SHALL BE 76mm ± 25mm.
- 7) IF THE AIR TEMPERATURE IS 5 DEGREES C OR LESS, THE TEMPERATURE OF THE CONCRETE AT TIME OF PLACING SHALL BE BETWEEN 15 AND 30 DEGREES C.
- 8) PROVIDE EFFECTIVE MEANS OF MAINTAINING THE TEMPERATURE OF CONCRETE IN PLACE AT A MINIMUM OF 10 DEGREES C AND A MAXIMUM OF 30 DEGREES C FOR THREE DAYS AFTER PLACING. WHEN THE MEAN DAILY AIR TEMPERATURE IS LESS THAN 5 DEGREES C PROVIDE PROTECTION FOR NEWLY PLACED CONCRETE BY MEANS OF SUITABLE ENCLOSURES OR RAISED COVERINGS, HEAT AND INSULATION.
- 9) CHAMFER EXPOSED CORNERS OF CONCRETE (APPROX. 19mm).

REINFORCEMENT:

- 1) CLEAN REINFORCEMENT OF ANY LOOSE SCALE, DIRT OR OTHER COATINGS WHICH WOULD DESTROY OR REDUCE BONDING. REJECT BARS WITH KINKS OR BENDS NOT SHOWN ON THE FOUNDATION DETAILS.
- 2) ALL REINFORCEMENT SHALL HAVE A MINIMUM OF 76mm CONCRETE COVER.
- 3) REINFORCING STEEL SHALL BE DEFORMED BARS CONFORMING WITH CSA STANDARD G30.18 (GRADE 600).

BACKFILLING:

- 1) BACKFILL SHALL BE PLACED IN THIN LIFTS (MAXIMUM 150mm) AND COMPACTED TO A MINIMUM OF 95 PERCENT OF STANDARD PROCTOR MAXIMUM DRY DENSITY. IN THE EVENT THAT EXCAVATED MATERIALS ARE NOT SUITABLE FOR BACKFILL, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY AND COMPACT SUITABLE CLEAN MATERIAL TO MEET THAT REQUIREMENT.


STANDARDS:

- 1) FOUNDATIONS ARE DESIGNED IN ACCORDANCE WITH CAN/CSA-S37-01.
- 2) CONCRETE WORK SHALL BE ACCORDANCE WITH CAN3-A23.3.
- 3) REINFORCEMENT FOR CONCRETE SHALL BE IN ACCORDANCE WITH CAN3-A23.1.

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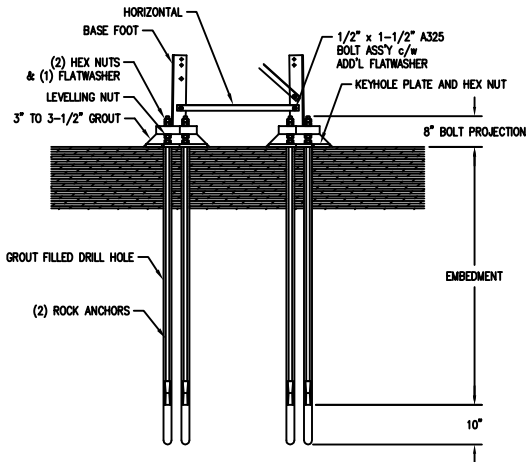
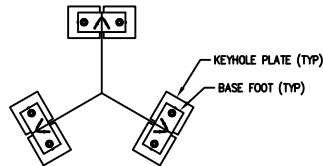
DRAWING NO. 000001.620.0053

CUSTOMER: SITE: SCALE: 1.000

DATE: 24 APR 03 BY: MAW CHK: APP:

TITLE: CSA FOUNDATION NOTES

NOTES:1) THESE NOTES ARE TO BE USED WITH FOUNDATION DETAILS SHOWN ON DWG. 000001.620.0052.



| KIT NUMBER | SECTION No. | C/C PIERS | BASE FOOT | ROCK ANCHOR | ROCK BOLT No. | EMBEDMENT | HORIZONTAL |
|---------------|-------------|-----------|----------------|-------------|---------------|-----------|----------------|
| 4.79.0000.102 | 2F | 13-3/4" | 3.620.0023.001 | 5/8" x 98" | R1S-05-A13 | 7'-6" | 3.620.0020.001 |
| 4.79.0000.103 | 3F | 16-3/4" | 3.620.0024.001 | 5/8" x 98" | R1S-05-A13 | 7'-6" | 3.620.0020.002 |
| 4.79.0000.104 | 4F | 19-3/4" | 3.620.0023.001 | 5/8" x 98" | R1S-05-A13 | 7'-6" | 3.620.0020.003 |
| 4.79.0000.105 | 5F | 22-3/4" | 3.620.0024.001 | 5/8" x 98" | R1S-05-A13 | 7'-6" | 3.620.0020.004 |
| 4.79.0000.106 | 6F | 25-3/8" | 3.620.0025.001 | 7/8" x 122" | R1S-07-C14 | 9'-0" | 3.620.0020.005 |
| 4.79.0000.107 | 7F | 28-1/16" | 3.620.0026.001 | 7/8" x 122" | R1S-07-C14 | 9'-0" | 3.620.0020.006 |
| 4.79.0000.108 | 8F | 31-1/16" | 3.620.0027.001 | 7/8" x 122" | R1S-07-C14 | 9'-0" | 3.620.0020.007 |
| 4.79.0000.109 | 9F | 34-1/16" | 3.620.0026.001 | 7/8" x 122" | R1S-07-C14 | 9'-0" | 3.620.0020.008 |
| 4.79.0000.110 | 10F | 37-1/16" | 3.620.0027.001 | 7/8" x 122" | R1S-07-C14 | 9'-0" | 3.620.0020.009 |
| 4.79.0000.111 | 11F | 39-13/16" | 3.620.0028.001 | 7/8" x 122" | R1S-07-C14 | 9'-6" | 3.620.0020.010 |
| 4.79.0000.112 | 12F | 42-13/16" | 3.620.0029.001 | 7/8" x 122" | R1S-07-C14 | 9'-6" | 3.620.0020.011 |
| 4.79.0000.113 | 13F | 45-13/16" | 3.620.0028.001 | 7/8" x 122" | R1S-07-C14 | 9'-6" | 3.620.0020.012 |

| ROCK ANCHOR DIA. | DRILL HOLE DIA. | KEYHOLE PLATE | TO SET SHELL | TENSION LOAD |
|------------------|-----------------|----------------|--------------|--------------|
| 5/8" | 1-3/4" | 3.906.0006.002 | 125 ft.-lbs | 13,550 lbs |
| 7/8" | 1-3/4" | 3.906.0006.004 | 390 ft.-lbs | 27,700 lbs |

WILLIAMS' SUPER HIGH TENSILE ROCK BOLT (SOLID) INSTALLATION INSTRUCTIONS

NOMINAL BOLT DIAMETER = SEE CHART
 REQUIRED HOLE DIAMETER IN ROCK = SEE CHART
 WILLIAMS' PART NUMBER: SEE CHART

PROCEDURE:

- 1) DRILL HOLE TO PROPER SIZE, BATTER AND *DEPTH SHOWN ON THE DRAWINGS*. DRILL THE HOLE TEN (10) INCHES DEEPER THAN EMBEDMENT LENGTH SHOWN.
- 2) PLACE THE WILLIAMS' SUPER HIGH TENSILE ROCK BOLT IN POSITION IN THE HOLE WITH SUFFICIENT PROJECTION. TORQUE THE BOLT TO APPROXIMATELY (SEE CHART) ft lbs TO SET SHELL.
 2a) IF SHELL DOES NOT ENGAGE WITH THE ROCK, REFER TO PROJECT ENGINEER FOR INSTRUCTIONS.
- 3) PLACE A SMALL AMOUNT OF QUICK SETTING GROUT AROUND THE TOP OF THE BOLT WHILE AT THE SAME TIME INSTALL THE DE-AIR GROUT TUBE (12 INCHES LONG) AND THE BEARING PLATE.
- 4) CLEAN THE THREADS ABOVE THE BEARING PLATE AS WELL AS THE NUTS WITH OIL. USE A PULL JACK TO APPLY A TENSION LOAD OF (SEE CHART) lbs INTO THE BOLT AND INSTALL SECOND NUT TO LOCK ASSEMBLY.
- 5) BLOW COMPRESSED AIR AROUND THE SOLID BOLT TO ASSURE SYSTEM IS CLEAR. PUMP "M-BED STANDARD" OR OTHER CEMENTICIOUS, NON-SHRINKING GROUT AROUND THE BOLT UNTIL A CONTINUOUS FLOW OF GROUT IS SEEN COMING OUT OF THE DE-AIR TUBE.
- 6) ALL ANCHOR RODS PLACED IN ROCK SHALL BE GROUTED IN PLACE WITH A NON-FERROUS, NON-SHRINKING GROUT HAVING A MINIMUM COMPRESSIVE STRENGTH OF 27.5 MPa.
- 7) INSTALLATION COMPLETE.

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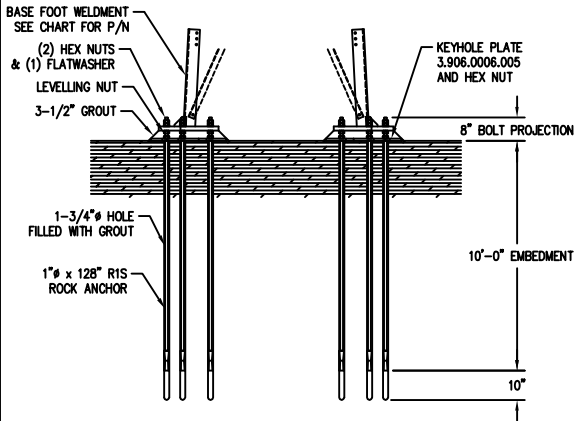
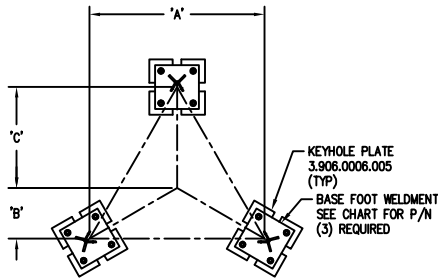
DRAWING NO. 000001.620.0057

CUSTOMER: SITE: SCALE: 20,000

NOTES: 1) THIS BASE FOOT KIT IS USEFUL FOR SOUND AND SOLID ROCK FOUNDATIONS WHERE HOLES CAN BE FIELD DRILLED INTO THE ROCK.

| DATE: | BY: | CHK: | APP: |
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| 21 OCT 03 | MAW | MS | BZ |

TITLE: ROCK BOLT SECT. #2-12HD



| KIT NUMBER | FITS TOWER SECTION NUMBER | 'A' | 'b' | 'c' | BASE FOOT WELDMENT P/N |
|---------------|---------------------------|----------|-----------|----------|------------------------|
| 4.79.0000.114 | 13 | 59-7/8" | 17-1/4" | 34-9/16" | 3.620.0062.001 |
| 4.79.0000.115 | 14 | 71-7/8" | 20-3/4" | 41-1/2" | 3.620.0062.001 |
| 4.79.0000.116 | 15 | 83-7/8" | 24-3/16" | 48-7/16" | 3.620.0062.001 |
| 4.79.0000.117 | 16 | 95-7/8" | 27-11/16" | 55-3/8" | 3.620.0062.001 |
| 4.79.0000.118 | 17 | 107-7/8" | 31-1/8" | 62-1/4" | 3.620.0062.001 |
| 4.79.0000.119 | 18 | 119-7/8" | 34-5/8" | 69-3/16" | 3.620.0061.001 |
| 4.79.0000.120 | 19 | 131-7/8" | 38-1/16" | 76-1/8" | 3.620.0061.001 |
| 4.79.0000.121 | 20 | 143-7/8" | 41-1/2" | 83-1/16" | 3.620.0061.001 |
| 4.79.0000.122 | 21 | 155-7/8" | 45" | 90" | 3.620.0061.001 |

WILLIAMS' SUPER HIGH TENSILE ROCK BOLT (SOLID) INSTALLATION INSTRUCTIONS

NOMINAL BOLT DIAMETER = 1.0 INCHES
 REQUIRED HOLE DIAMETER IN ROCK = 1.75 INCHES
 WILLIAMS' PART NUMBER: R1S-08-C14

PROCEDURE:

- 1) DRILL HOLE TO PROPER SIZE, BATTER AND *DEPTH SHOWN ON THE DRAWINGS*. DRILL THE HOLE TWELVE (12) INCHES DEEPER THAN EMBEDMENT LENGTH SHOWN.
- 2) PLACE THE WILLIAMS' SUPER HIGH TENSILE ROCK BOLT IN POSITION IN THE HOLE WITH SUFFICIENT PROJECTION. TORQUE THE BOLT TO APPROXIMATELY 500 ft lbs TO SET SHELL.
- 2a) IF SHELL DOES NOT ENGAGE WITH THE ROCK, REFER TO PROJECT ENGINEER FOR INSTRUCTIONS.
- 3) PLACE A SMALL AMOUNT OF QUICK SETTING GROUT AROUND THE TOP OF THE BOLT WHILE AT THE SAME TIME INSTALL THE DE-AIR GROUT TUBE (12 INCHES LONG) AND THE BEARING PLATE.
- 4) CLEAN THE THREADS ABOVE THE BEARING PLATE AS WELL AS THE NUTS WITH OIL. USE A PULL JACK TO APPLY A TENSION LOAD OF 36,350 lbs INTO THE BOLT AND INSTALL SECOND NUT TO LOCK ASSEMBLY.
- 5) BLOW COMPRESSED AIR AROUND THE SOLID BOLT TO ASSURE SYSTEM IS CLEAR. PUMP "M-BED STANDARD" OR OTHER CEMENTIOUS, NON-SHRINKING GROUT AROUND THE BOLT UNTIL A CONTINUOUS FLOW OF GROUT IS SEEN COMING OUT OF THE DE-AIR TUBE.
- 6) ALL ANCHOR RODS PLACED IN PLACE WITHIN 10' SHALL BE GROUTED IN PLACE WITH A NON-FERROUS, NON-SHRINKING GROUT HAVING A MINIMUM COMPRESSIVE STRENGTH OF 27.5 MPa.
- 7) INSTALLATION COMPLETE.

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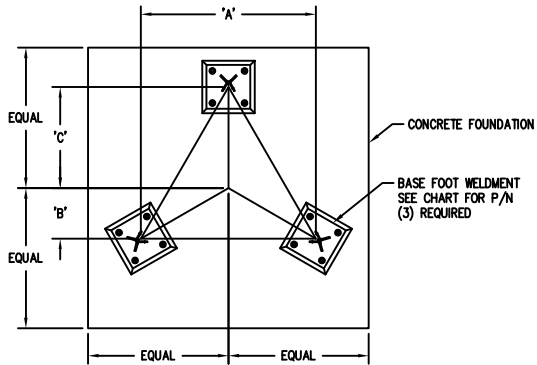
DRAWING NO. 000001.620.0069

CUSTOMER: SITE: SCALE: 30.000

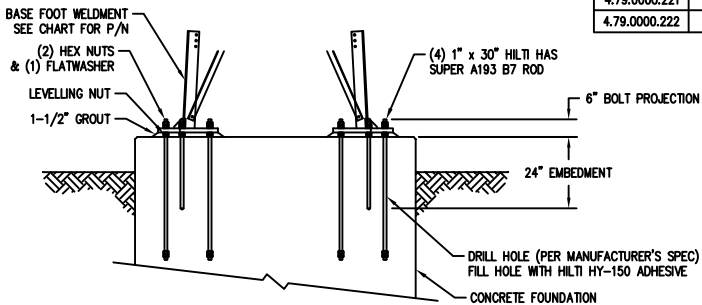
DATE: 10 JUN 04 BY: MAW CHK: JAG APP: JB

TITLE: ROCK BOLT INST. SEC. #13-21

NOTES: 1) USE TEMPLATE PROVIDED TO PROPERLY POSITION ROCK BOLTS.



| KIT NUMBER | FITS TOWER SECTION NUMBER | 'A' | 'B' | 'C' | BASE FOOT WELDMENT P/N | HY150 CARTRIDGES |
|---------------|---------------------------|----------|-----------|----------|------------------------|------------------|
| 4.79.0000.214 | 13 | 59-7/8" | 17-1/4" | 34-9/16" | 3.620.0062.001 | 4 |
| 4.79.0000.215 | 14 | 71-7/8" | 20-3/4" | 41-1/2" | 3.620.0062.001 | 4 |
| 4.79.0000.216 | 15 | 83-7/8" | 24-3/16" | 48-7/16" | 3.620.0062.001 | 4 |
| 4.79.0000.217 | 16 | 95-7/8" | 27-11/16" | 55-3/8" | 3.620.0062.001 | 4 |
| 4.79.0000.218 | 17 | 107-7/8" | 31-1/8" | 62-1/4" | 3.620.0062.001 | 4 |
| 4.79.0000.219 | 18 | 119-7/8" | 34-5/8" | 69-3/16" | 3.620.0061.001 | 4 |
| 4.79.0000.220 | 19 | 131-7/8" | 38-1/16" | 76-1/8" | 3.620.0061.001 | 4 |
| 4.79.0000.221 | 20 | 143-7/8" | 41-1/2" | 83-1/16" | 3.620.0061.001 | 4 |
| 4.79.0000.222 | 21 | 155-7/8" | 45" | 90" | 3.620.0061.001 | 4 |



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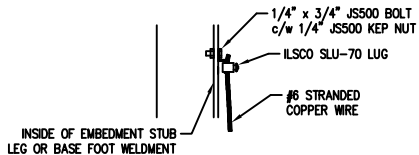
DRAWING NO. 000001.620.0068

CUSTOMER: SITE: SCALE: 30,000

DATE: 10 JUN 04 BY: MAW CHK: JAG APP: JB

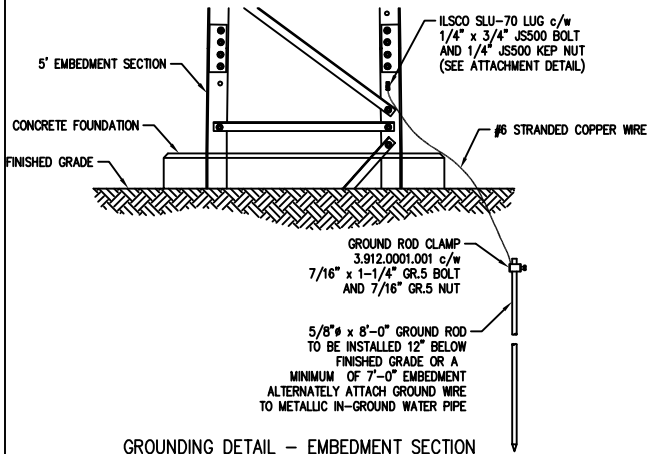
TITLE: HILTI BOLT INSTALLATION

NOTES: 1) IF INSTALLING ON A NEW OR ON AN EXISTING CONCRETE PAD PLEASE NOTE THAT THIS DESIGN REQUIRES A PRE-EXISTING TOP "MAT" OF REINFORCING BARS SUFFICIENT TO PREVENT BREAKAWAY OF CONCRETE AROUND THE HILTI BOLTS.
 2) USE TEMPLATE PROVIDED TO PROPERLY POSITION HILTI RODS.
 3) NEW FOUNDATIONS MUST BE DESIGNED FOR SITE SPECIFIC SOIL CONDITIONS.

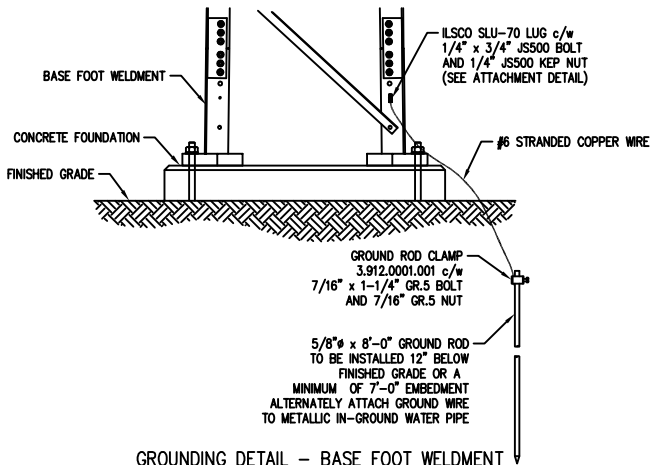


CLAMP ATTACHMENT

| SUPERTITAN BASIC GROUNDING KIT P/N 4.91.0103.000 | | |
|--|----------------|-----------------------------------|
| QUANTITY | PART NO. | DESCRIPTION |
| 1 | 3.912.0006.001 | 5/8"φ x 8' Lg. GROUND ROD |
| 3 | 1301404 | #6 B.S.C. WIRE |
| 1 | 1302090 | ILSCO SLU-70 LUG |
| 1 | 1205011 | 1/4" x 3/4" JS500 BOLT |
| 1 | 1205020 | 1/4" JS500 KEP NUT |
| 1 | 3.912.0001.001 | GROUND ROD CLAMP |
| 1 | 1201091 | 7/16" x 1-1/4" GR.5 HEX HEAD BOLT |
| 1 | 1201080 | 7/16" GR.5 HEX NUT |



GROUNDING DETAIL - EMBEDMENT SECTION



GROUNDING DETAIL - BASE FOOT WELDMENT

| REV. | BY: | BY: | DESCRIPTION | DATE |
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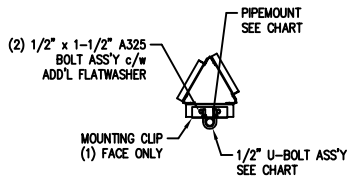
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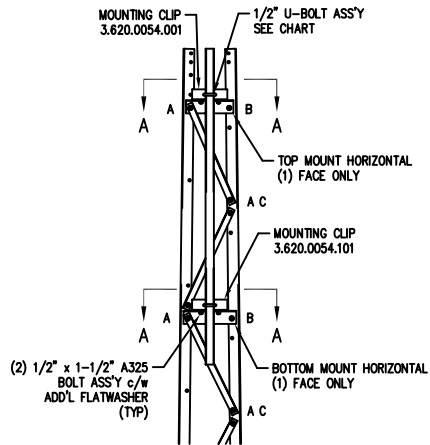
CUSTOMER: SITE: SCALE: 15.000

NOTES: 1) THERE ARE TWO TYPES OF SUPERTITAN ANCHOR DESIGNS. ONE IS A 5' EMBEDMENT SECTION WHICH IS THE DEFAULT FOR BOTTOM TOWER SECTIONS #2 THROUGH #12HD. THE OTHER IS A BASE FOOT WELDMENT KIT WITH ANCHOR RODS. THIS TYPE B IS THE DEFAULT WITH BOTTOM SECTIONS #13-21.

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| DATE: 10 APR 03 | BY: | CHK: | APP: |
| TITLE: GROUNDING DETAIL | | | |



SECTION A-A



NOTES:

1.9" OD PIPEMOUNT KITS

| SECT. No. | MOUNT KIT No. | TOP MNT. HORIZ. | BTM. MNT. HORIZ. | PIPEMOUNT | U-BOLT ASS'Y |
|-----------|---------------|-----------------|------------------|----------------|----------------|
| 1 | 4.84.0001.001 | 3.620.0018.001 | 3.620.0018.002 | 3.960.0013.100 | 4.963.0001.006 |
| 2 | 4.84.0001.002 | 3.620.0018.003 | 3.620.0018.004 | 3.960.0013.100 | 4.963.0001.006 |
| 3 | 4.84.0001.003 | 3.620.0018.005 | 3.620.0018.006 | 3.960.0013.100 | 4.963.0001.006 |
| 4 | 4.84.0001.004 | 3.620.0018.007 | 3.620.0018.008 | 3.960.0013.100 | 4.963.0001.006 |
| 5 | 4.84.0001.005 | 3.620.0018.009 | 3.620.0018.010 | 3.960.0013.100 | 4.963.0001.006 |
| 6 | 4.84.0001.006 | 3.620.0018.011 | 3.620.0018.012 | 3.960.0013.100 | 4.963.0001.006 |
| 7 | 4.84.0001.007 | 3.620.0018.013 | 3.620.0018.014 | 3.960.0013.100 | 4.963.0001.006 |
| 8 | 4.84.0001.008 | 3.620.0018.015 | 3.620.0018.016 | 3.960.0013.100 | 4.963.0001.006 |
| 9 | 4.84.0001.009 | 3.620.0018.017 | 3.620.0018.018 | 3.960.0013.100 | 4.963.0001.006 |
| 10 | 4.84.0001.010 | 3.620.0018.019 | 3.620.0018.020 | 3.960.0013.100 | 4.963.0001.006 |
| 11 | 4.84.0001.011 | 3.620.0018.021 | 3.620.0018.022 | 3.960.0013.100 | 4.963.0001.006 |
| 12 | 4.84.0001.012 | 3.620.0018.023 | 3.620.0018.024 | 3.960.0013.100 | 4.963.0001.006 |

4.5" OD PIPEMOUNT KITS

| SECT. No. | MOUNT KIT No. | TOP MNT. HORIZ. | BTM. MNT. HORIZ. | PIPEMOUNT | U-BOLT ASS'Y |
|-----------|---------------|-----------------|------------------|----------------|----------------|
| 1 | 4.84.0006.001 | 3.620.0018.001 | 3.620.0018.002 | 3.960.0011.103 | 4.963.0001.207 |
| 2 | 4.84.0006.002 | 3.620.0018.003 | 3.620.0018.004 | 3.960.0011.103 | 4.963.0001.207 |
| 3 | 4.84.0006.003 | 3.620.0018.005 | 3.620.0018.006 | 3.960.0011.103 | 4.963.0001.207 |
| 4 | 4.84.0006.004 | 3.620.0018.007 | 3.620.0018.008 | 3.960.0011.103 | 4.963.0001.207 |
| 5 | 4.84.0006.005 | 3.620.0018.009 | 3.620.0018.010 | 3.960.0011.103 | 4.963.0001.207 |
| 6 | 4.84.0006.006 | 3.620.0018.011 | 3.620.0018.012 | 3.960.0011.103 | 4.963.0001.207 |
| 7 | 4.84.0006.007 | 3.620.0018.013 | 3.620.0018.014 | 3.960.0011.103 | 4.963.0001.207 |
| 8 | 4.84.0006.008 | 3.620.0018.015 | 3.620.0018.016 | 3.960.0011.103 | 4.963.0001.207 |
| 9 | 4.84.0006.009 | 3.620.0018.017 | 3.620.0018.018 | 3.960.0011.103 | 4.963.0001.207 |
| 10 | 4.84.0006.010 | 3.620.0018.019 | 3.620.0018.020 | 3.960.0011.103 | 4.963.0001.207 |
| 11 | 4.84.0006.011 | 3.620.0018.021 | 3.620.0018.022 | 3.960.0011.103 | 4.963.0001.207 |
| 12 | 4.84.0006.012 | 3.620.0018.023 | 3.620.0018.024 | 3.960.0011.103 | 4.963.0001.207 |

| MARK | SIZE | QTY |
|------|------------------------------------|-----|
| A | 1/2" x 1-1/2" A325 | 4 |
| B | 1/2" x 1-1/2" A325 + FLATWASHER | 2 |
| C | 3/16"x2"x2" SPACER c/w 9/16"ø HOLE | 2 |

| MARK | SIZE | QTY |
|------|------------------------------------|-----|
| A | 1/2" x 1-3/4" A325 + FLATWASHER | 4 |
| B | 1/2" x 1-1/2" A325 | 2 |
| C | 3/16"x2"x2" SPACER c/w 9/16"ø HOLE | 2 |

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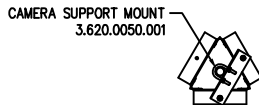
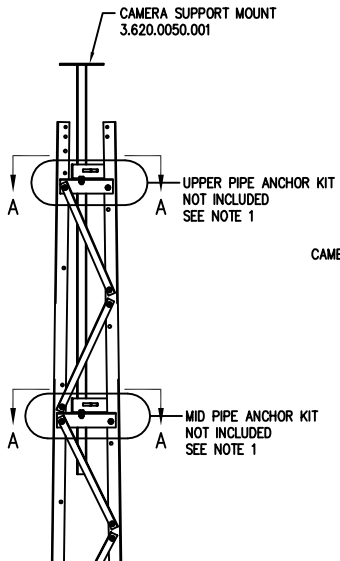
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DRAWING NO. 000001.620.0033

CUSTOMER: SITE: SCALE: 20.000

DATE: 11 APR 03 BY: CHK: APP:

TITLE: SIDE MOUNT DETAILS



SECTION A-A

CAMERA MOUNT
KIT No. 4.85.0102.000


NOTES: 1) REFER TO DWG. 000001.620.0031 FOR MOUNT HORIZ. AND SUPPORT HORIZONTAL KITS.

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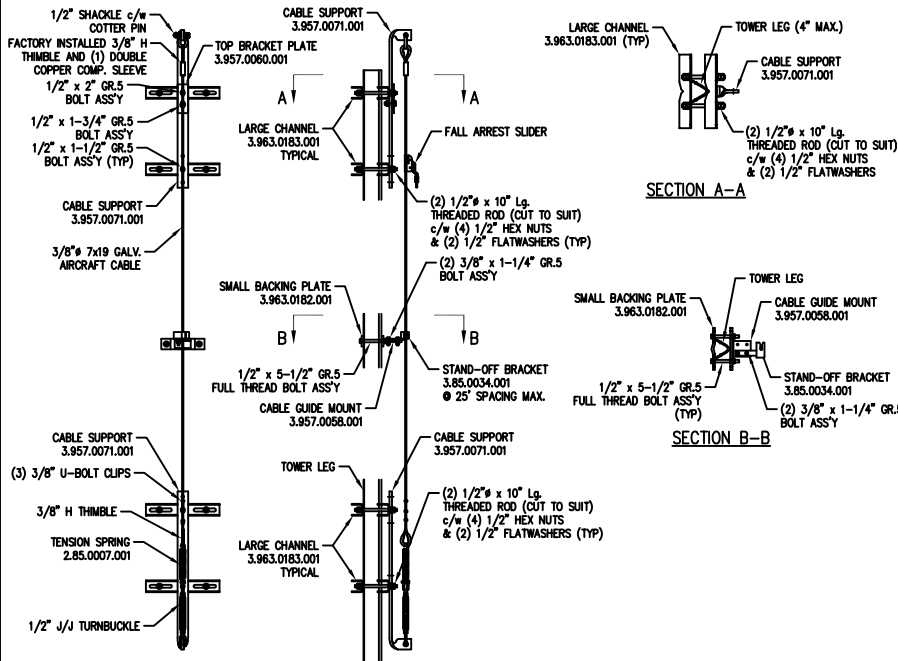
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| DATE: 11 APR 03 | BY: | CHK: | APP: |
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TITLE:
CAMERA MOUNT DETAILS



NOTE:
C.S.A. CERTIFICATION IS VALID ONLY IF THE SYSTEM IS INSTALLED USING ONLY THE MANUFACTURER'S COMPONENTS AND IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

INSTRUCTIONS

INSTALLATION STEPS

- BODY HARNESS:** The Cougar Cable System is designed to be used with a full body harness. Body belts are not an acceptable alternative. Please review the instructions included with the body harness for details on proper fitting and use.
- TOP BRACKET:** Install top bracket in center of the mount at upper elevation. Tighten nuts on backer plates using "turn of the nut method" and exercising care not to over tighten nuts and bend backer plates.
- CABLE:** Attach cable to top bracket using the shackle provided and install the cotter pin to prevent the bolt from unscrewing.
- LOWER BRACKET:** Install the lower bracket in the mount center and connect all hardware as shown in the drawing to the left. Tighten the turnbuckle until the spring has $\frac{1}{2}$ " to $\frac{3}{4}$ " of deflection.
- STAND-OFF BRACKETS:** Install stand-off brackets at approximately 25 foot intervals. The stand-off brackets should be installed such that the cable will lie in the center of the stand-off bracket. The clip on the stand-off bracket is spring loaded and should firmly grip the 3/8" cable.
- CABLE TERMINATION:** After the system is installed excess cable can be cut off.
- SLIDER:** The stainless steel slider is removable and should be stored inside. Consult the instruction sheet provided with the slider for information on care, use and maintenance.

OPERATION

- The Cougar Cable System is provided as an integrated kit and may not be used for other applications or in conjunction with other Fall Protection Systems. CSA Certification is void if components are purchased or introduced outside of this kit.
- If any part of the system has experienced a fall arrest, the system shall be removed from service, inspected and repaired before using.
- The Cougar Cable System is designed to arrest the fall of a single person at a time although multiple users can use the system to access the work place. Only one climber can actively utilize the system at one time. All other climbers must be tied-off appropriately.
- The Cougar Cable System is designed to be used in a vertical operating position. The system must be installed plumb ($\pm 3^\circ$) to ensure proper activation of the slider brake cam.
- The upper mounting bracket is designed to absorb energy if a fall occurs and reduce potential injury to the climber. Since many materials exhibit brittleness and behave differently at extreme cold it is recommended that no climbing occur at temperatures less than minus 30° Celsius.

NOTES: 1) THE UPPER SAFETY CABLE SUPPORT MUST BE ATTACHED TO A STRUCTURE CAPABLE OF SUPPORTING A STATIC LOAD OF 5000lbs.

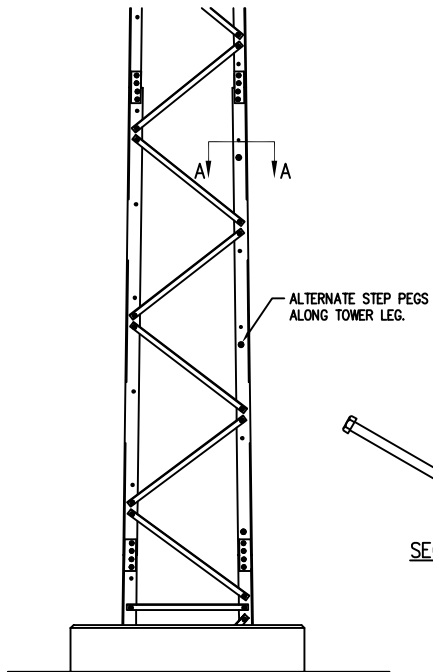
2) **WARNING:** ANY SLIDER WHICH HAS EXPERIENCED A FALL ARREST SHOULD NOT BE USED AFTER SUCH FALL ARREST.

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| CUSTOMER: | | SITE: | | SCALE: |
| DATE: 25 APR 03 | | BY: | CHK: | APP: |
| TITLE: SUPERTITAN SAFETY CABLE | | | | |

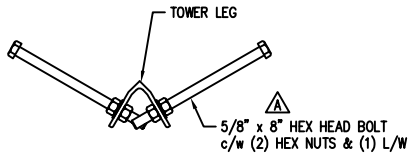


DRAWING NO.
000001.620.0042

SCALE: 15.000



| KIT NUMBER | TOWER HEIGHT |
|---------------|--------------|
| 4.98.0100.010 | 10' |
| 4.98.0100.020 | 20' |
| 4.98.0100.030 | 30' |
| 4.98.0100.040 | 40' |
| 4.98.0100.050 | 50' |
| 4.98.0100.060 | 60' |
| 4.98.0100.070 | 70' |
| 4.98.0100.080 | 80' |
| 4.98.0100.090 | 90' |
| 4.98.0100.100 | 100' |
| 4.98.0100.110 | 110' |
| 4.98.0100.120 | 120' |



SECTION A-A


NOTES: 1) WHEN USING AN ANTI-CLIMB SHIELD START STEP PEGS IN FIRST HOLE ABOVE SHIELD.
 2) STEP BOLTS ARE INSTALLED THIS WAY FOR SUPERTITAN SECTION #1 TO #12HD ONLY. SEE DWG #000001.620.0100 FOR STEPBOLT INSTALLATION OF SECTIONS #13 - #21.

| REV. | BY: | BY: | DESCRIPTION | DATE |
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| REV. | CHK. | CHK. | | |
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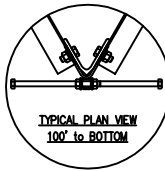
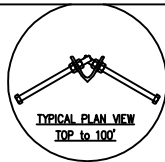
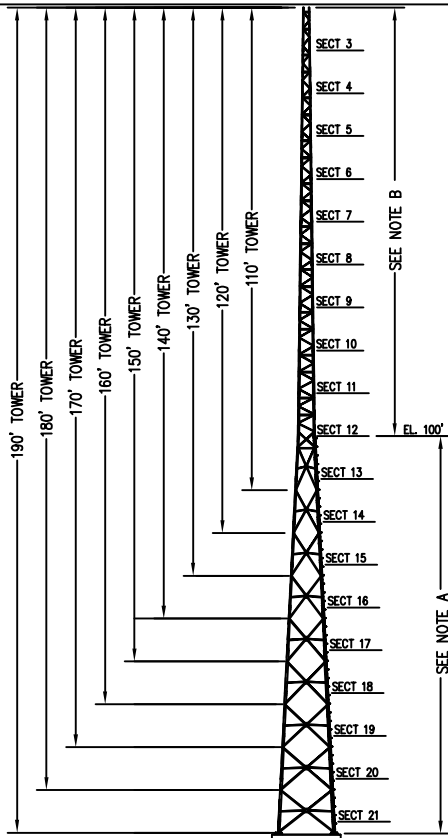


DRAWING NO. 000001.620.0041

CUSTOMER: SITE: SCALE: 25,000

DATE: 25 APR 03 BY: CHK: APP:

TITLE: STEP PEG INSTALLATION



| S300 STEP -PEG KITS | |
|---------------------|---------------|
| TOWER HEIGHT | KIT NUMBER |
| 190' | 4.98.S300.190 |
| 180' | 4.98.S300.180 |
| 170' | 4.98.S300.170 |
| 160' | 4.98.S300.160 |
| 150' | 4.98.S300.150 |
| 140' | 4.98.S300.140 |
| 130' | 4.98.S300.130 |
| 120' | 4.98.S300.120 |
| 110' | 4.98.S300.110 |


NOTES:
 A. REFER TO DWG. 01.620.0100 FOR STEP PEG LADDER ASSEMBLY FOR 100' to BOTTOM.
 B. REFER TO DWG. 01.620.0041 FOR STEP PEG INSTALLATION FOR 100' to TOP.

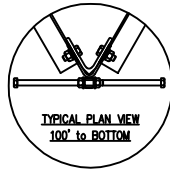
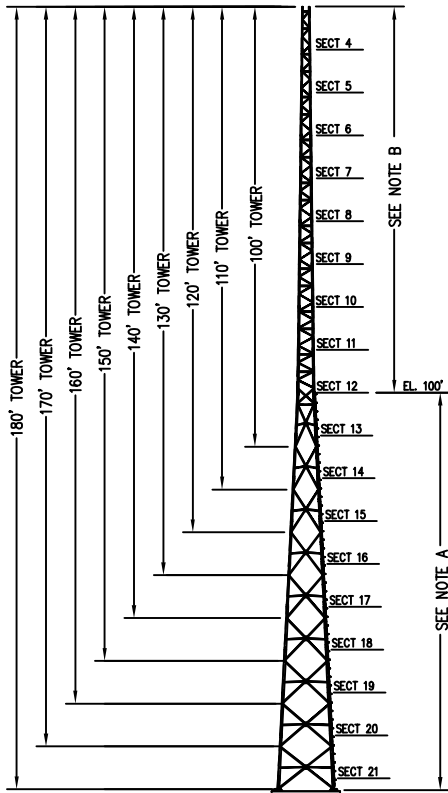
NOTES: 1) SECTIONS 3-12 UTILIZE STEP-PEGS THAT SIMPLY SCREW INTO PRE-PUNCHED 11/16" HOLES IN THE TOWER LEGS.
 2) SECTIONS 13-21 UTILIZE STEP-PEG LADDER SECTIONS WHICH CLAMP ONTO THE TOWER LEG AT 2 POINTS.
 3) THE VERY BOTTOM UTILIZES AN 18" LONG BASE STEP PEG LADDER THAT CLAMPS ONTO THE BASE FOOT WELDMENT.

| REV. | BY: | BY: | DESCRIPTION | DATE |
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| | DRAWING NO. 000001.620.0110 | |
| CUSTOMER: | SITE: | SCALE: |
| DATE: | BY: | CHK: |
| 19 NOV 04 | | |
| TITLE: | | |
| CLIMBING STEP-PEG KITS | | |



| S400 STEP -PEG KITS | |
|---------------------|---------------|
| TOWER HEIGHT | KIT NUMBER |
| 180' | 4.98.S400.180 |
| 170' | 4.98.S400.170 |
| 160' | 4.98.S400.160 |
| 150' | 4.98.S400.150 |
| 140' | 4.98.S400.140 |
| 130' | 4.98.S400.130 |
| 120' | 4.98.S400.120 |
| 110' | 4.98.S400.110 |
| 100' | 4.98.S400.100 |

NOTES:

- A. REFER TO DWG. 01.620.0100 FOR STEP PEG LADDER ASSEMBLY for 100' to BOTTOM.
- B. REFER TO DWG. 01.620.0041 FOR STEP PEG INSTALLATION FOR 100' to TOP.

- 1) SECTIONS 4-12 UTILIZE STEP-PEGS THAT SIMPLY SCREW INTO PRE-PUNCHED 11/16" HOLES IN THE TOWER LEGS.
- 2) SECTIONS 13-21 UTILIZE STEP-PEG LADDER SECTIONS WHICH CLAMP ONTO THE TOWER LEG AT 2 POINTS.
- 3) THE VERY BOTTOM UTILIZES AN 18" LONG BASE STEP PEG LADDER THAT CLAMPS ONTO THE BASE FOOT WELDMENT.

| REV. | BY: | BY: | DESCRIPTION | DATE |
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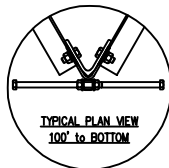
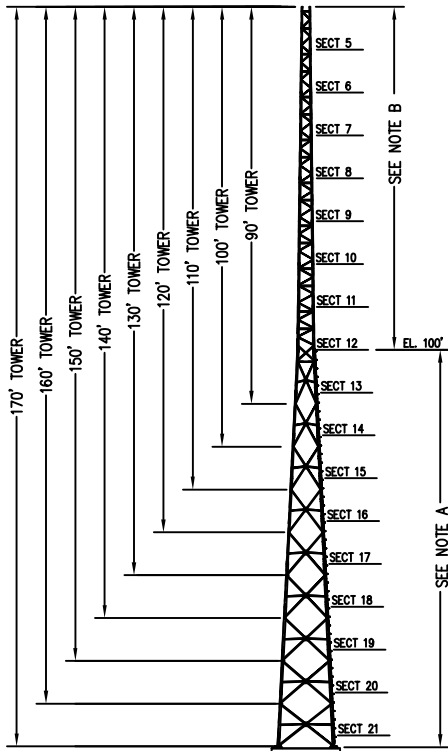
Trylon

DRAWING NO. 000001.620.0111

CUSTOMER: SITE: S400 SERIES SCALE: 300.000

DATE: 19 NOV 04 BY: CHK: APP:

TITLE: CLIMBING STEP-PEG KITS



| S500 STEP -PEG KITS | |
|---------------------|---------------|
| TOWER HEIGHT | KIT NUMBER |
| 170' | 4.98.S500.170 |
| 160' | 4.98.S500.160 |
| 150' | 4.98.S500.150 |
| 140' | 4.98.S500.140 |
| 130' | 4.98.S500.130 |
| 120' | 4.98.S500.120 |
| 110' | 4.98.S500.110 |
| 100' | 4.98.S500.100 |
| 90' | 4.98.S500.090 |

NOTES:


- A. REFER TO DWG. 01.620.0100 FOR STEP PEG LADDER ASSEMBLY FOR 100' TO BOTTOM.
- B. REFER TO DWG. 01.620.0041 FOR STEP PEG INSTALLATION FOR 100' TO TOP.

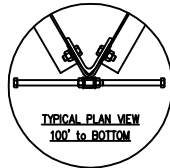
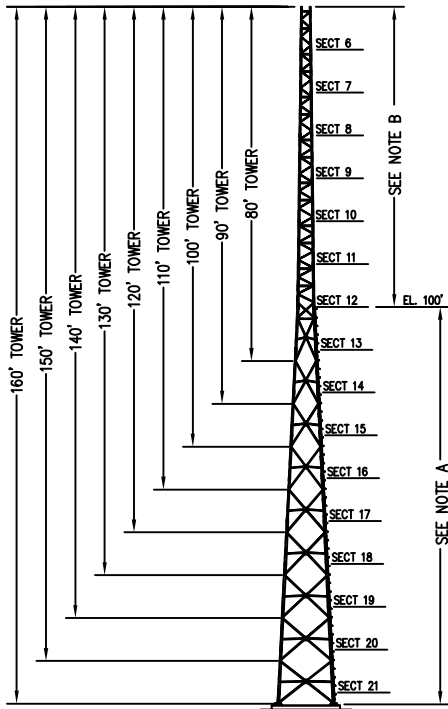
- NOTES: 1) SECTIONS 5-12 UTILIZE STEP-PEGS THAT SIMPLY SCREW INTO PRE-PUNCHED 11/16" HOLES IN THE TOWER LEGS.
- 2) SECTIONS 13-21 UTILIZE STEP-PEG LADDER SECTIONS WHICH CLAMP ONTO THE TOWER LEG AT 2 POINTS.
- 3) THE VERY BOTTOM UTILIZES AN 18" LONG BASE STEP PEG LADDER THAT CLAMPS ONTO THE BASE FOOT WELDMENT.

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| | DRAWING NO. 000001.620.0112 | |
| CUSTOMER: | SITE: S500 SERIES | SCALE: 300.000 |
| DATE: 19 NOV 04 | BY: | CHK: APP: |
| TITLE: CLIMBING STEP-PEG KITS | | |



| S600 STEP -PEG KITS | |
|---------------------|---------------|
| TOWER HEIGHT | KIT NUMBER |
| 160' | 4.98.S600.160 |
| 150' | 4.98.S600.150 |
| 140' | 4.98.S600.140 |
| 130' | 4.98.S600.130 |
| 120' | 4.98.S600.120 |
| 110' | 4.98.S600.110 |
| 100' | 4.98.S600.100 |
| 90' | 4.98.S600.090 |
| 80' | 4.98.S600.080 |

NOTES:

- A. REFER TO DWG. 01.620.0100 FOR STEP PEG LADDER ASSEMBLY FOR 100' TO BOTTOM.
- B. REFER TO DWG. 01.620.0041 FOR STEP PEG INSTALLATION FOR 100' TO TOP.

- NOTES: 1) SECTIONS 6-12 UTILIZE STEP-PEGS THAT SIMPLY SCREW INTO PRE-PUNCHED 11/16" HOLES IN THE TOWER LEGS.
- 2) SECTIONS 13-21 UTILIZE STEP-PEG LADDER SECTIONS WHICH CLAMP ONTO THE TOWER LEG AT 2 POINTS.
- 3) THE VERY BOTTOM UTILIZES AN 18" LONG BASE STEP PEG LADDER THAT CLAMPS ONTO THE BASE FOOT WELDMENT.

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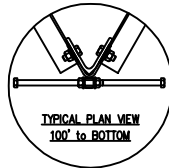
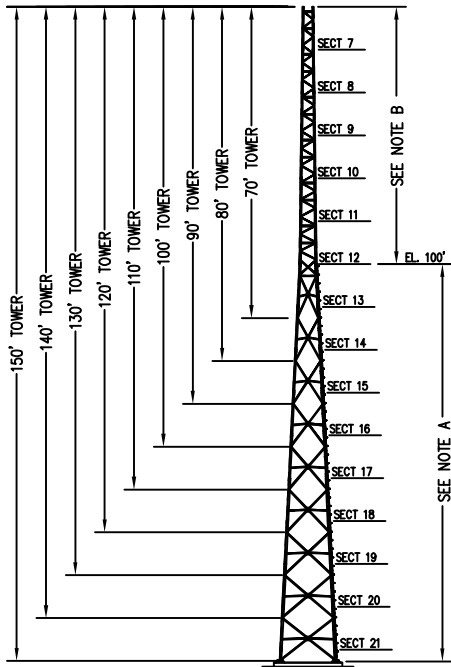
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DRAWING NO. 000001.620.0113

CUSTOMER: SITE: S600 SERIES SCALE: 300.000

DATE: 19 NOV 04 BY: CHK: APP:

TITLE: CLIMBING STEP-PEG KITS



| S700 STEP -PEG KITS | |
|---------------------|---------------|
| TOWER HEIGHT | KIT NUMBER |
| 150' | 4.98.S700.150 |
| 140' | 4.98.S700.140 |
| 130' | 4.98.S700.130 |
| 120' | 4.98.S700.120 |
| 110' | 4.98.S700.110 |
| 100' | 4.98.S700.100 |
| 90' | 4.98.S700.090 |
| 80' | 4.98.S700.080 |
| 70' | 4.98.S700.070 |

NOTES:
 A. REFER TO DWG. 01.620.0100 FOR STEP PEG LADDER ASSEMBLY for 100' to BOTTOM.
 B. REFER TO DWG. 01.620.0041 FOR STEP PEG INSTALLATION FOR 100' to TOP.

NOTES: 1) SECTIONS 7-12 UTILIZE STEP-PEGS THAT SIMPLY SCREW INTO PRE-PUNCHED 11/16" HOLES IN THE TOWER LEGS.
 2) SECTIONS 13-21 UTILIZE STEP-PEG LADDER SECTIONS WHICH CLAMP ONTO THE TOWER LEG AT 2 POINTS.
 3) THE VERY BOTTOM UTILIZES AN 18" LONG BASE STEP PEG LADDER THAT CLAMPS ONTO THE BASE FOOT WELDMENT.

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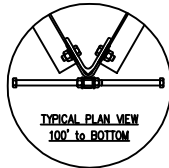
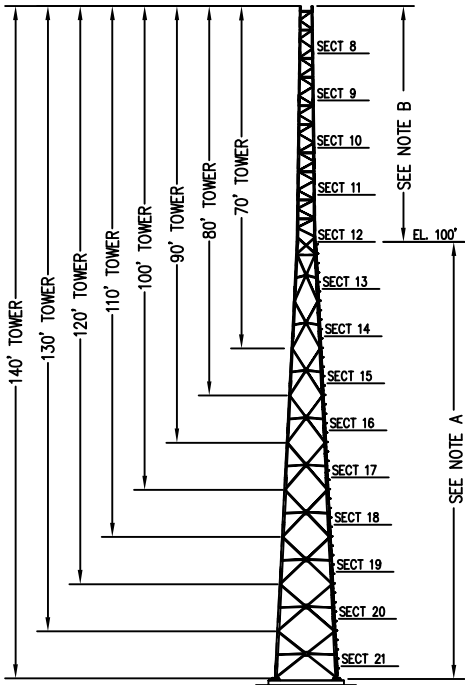
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DRAWING NO. 000001.620.0114

CUSTOMER: SITE: S700 SERIES SCALE: 300.000

DATE: 19 NOV 04 BY: CHK: APP:

TITLE: CLIMBING STEP-PEG KITS



| S800 STEP -PEG KITS | |
|---------------------|---------------|
| TOWER HEIGHT | KIT NUMBER |
| 140' | 4.98.S800.140 |
| 130' | 4.98.S800.130 |
| 120' | 4.98.S800.120 |
| 110' | 4.98.S800.110 |
| 100' | 4.98.S800.100 |
| 90' | 4.98.S800.090 |
| 80' | 4.98.S800.080 |
| 70' | 4.98.S800.070 |

NOTES:


- A. REFER TO DWG. 01.620.0100 FOR STEP PEG LADDER ASSEMBLY FOR 100' to BOTTOM.
- B. REFER TO DWG. 01.620.0041 FOR STEP PEG INSTALLATION FOR 100' to TOP.

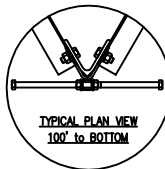
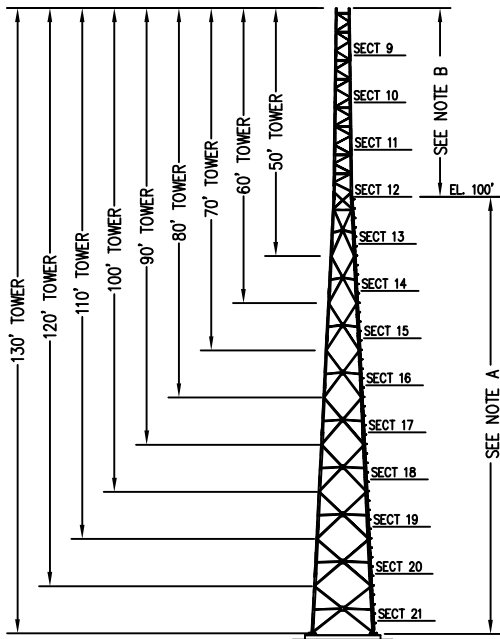
- NOTES: 1) SECTIONS 8-12 UTILIZE STEP-PEGS THAT SIMPLY SCREW INTO PRE-PUNCHED 11/16" HOLES IN THE TOWER LEGS.
- 2) SECTIONS 13-21 UTILIZE STEP-PEG LADDER SECTIONS WHICH CLAMP ONTO THE TOWER LEG AT 2 POINTS.
- 3) THE VERY BOTTOM UTILIZES AN 18" LONG BASE STEP PEG LADDER THAT CLAMPS ONTO THE BASE FOOT WELDMENT.

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| | DRAWING NO. 000001.620.0115 | |
| CUSTOMER: | SITE: S800 SERIES | SCALE: 300.000 |
| DATE: 19 NOV 04 | BY: | CHK: |
| TITLE: CLIMBING STEP-PEG KITS | | |



| S900 STEP -PEG KITS | |
|---------------------|---------------|
| TOWER HEIGHT | KIT NUMBER |
| 130' | 4.98.S900.130 |
| 120' | 4.98.S900.120 |
| 110' | 4.98.S900.110 |
| 100' | 4.98.S900.100 |
| 90' | 4.98.S900.090 |
| 80' | 4.98.S900.080 |
| 70' | 4.98.S900.070 |
| 60' | 4.98.S900.060 |
| 50' | 4.98.S900.050 |

NOTES:

- A. REFER TO DWG. 01.620.0100 FOR STEP PEG LADDER ASSEMBLY FOR 100' to BOTTOM.
- B. REFER TO DWG. 01.620.0041 FOR STEP PEG INSTALLATION FOR 100' to TOP.

- NOTES: 1) SECTIONS 9-12 UTILIZE STEP-PEGS THAT SIMPLY SCREW INTO PRE-PUNCHED 11/16" HOLES IN THE TOWER LEGS.
- 2) SECTIONS 13-21 UTILIZE STEP-PEG LADDER SECTIONS WHICH CLAMP ONTO THE TOWER LEG AT 2 POINTS.
- 3) THE VERY BOTTOM UTILIZES AN 18" LONG BASE STEP PEG LADDER THAT CLAMPS ONTO THE BASE FOOT WELDMENT.

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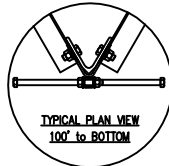
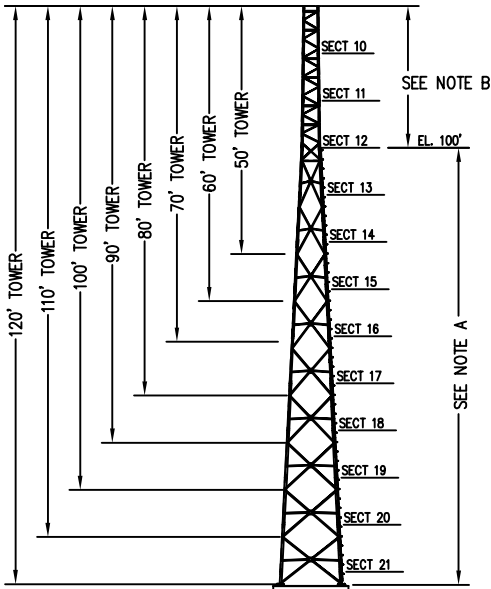
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DRAWING NO. 000001.620.0116

CUSTOMER: SITE: S900 SERIES SCALE: 300.000

DATE: 19 NOV 04 BY: CHK: APP:

TITLE: CLIMBING STEP-PEG KITS



| S1000 STEP -PEG KITS | |
|----------------------|---------------|
| TOWER HEIGHT | KIT NUMBER |
| 120' | 4.98.1000.120 |
| 110' | 4.98.1000.110 |
| 100' | 4.98.1000.100 |
| 90' | 4.98.1000.090 |
| 80' | 4.98.1000.080 |
| 70' | 4.98.1000.070 |
| 60' | 4.98.1000.060 |
| 50' | 4.98.1000.050 |

NOTES:


- A. REFER TO DWG. 01.620.0100 FOR STEP PEG LADDER ASSEMBLY FOR 100' to BOTTOM.
- B. REFER TO DWG. 01.620.0041 FOR STEP PEG INSTALLATION FOR 100' to TOP.

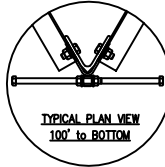
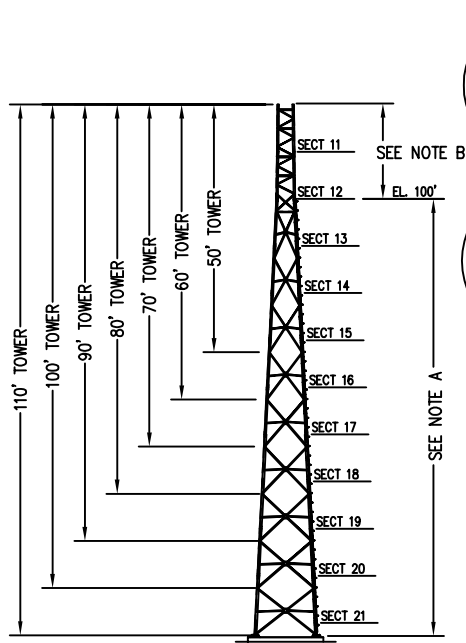
- 1) SECTIONS 10-12 UTILIZE STEP-PEGS THAT SIMPLY SCREW INTO PRE-PUNCHED 11/16" HOLES IN THE TOWER LEGS.
- 2) SECTIONS 13-21 UTILIZE STEP-PEG LADDER SECTIONS WHICH CLAMP ONTO THE TOWER LEG AT 2 POINTS.
- 3) THE VERY BOTTOM UTILIZES AN 18" LONG BASE STEP PEG LADDER THAT CLAMPS ONTO THE BASE FOOT WELDMENT.

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| | DRAWING NO. 000001.620.0117 | |
| CUSTOMER: | SITE: S1000 SERIES | SCALE: 300.000 |
| DATE: 19 NOV 04 | BY: | CHK: APP: |
| TITLE: CLIMBING STEP-PEG KITS | | |



| S1100 STEP -PEG KITS | |
|----------------------|---------------|
| TOWER HEIGHT | KIT NUMBER |
| 110' | 4.98.1100.110 |
| 100' | 4.98.1100.100 |
| 90' | 4.98.1100.090 |
| 80' | 4.98.1100.080 |
| 70' | 4.98.1100.070 |
| 60' | 4.98.1100.060 |
| 50' | 4.98.1100.050 |

NOTES:


- A. REFER TO DWG. 01.620.0100 FOR STEP PEG LADDER ASSEMBLY FOR 100' to BOTTOM.
- B. REFER TO DWG. 01.620.0041 FOR STEP PEG INSTALLATION FOR 100' to TOP.

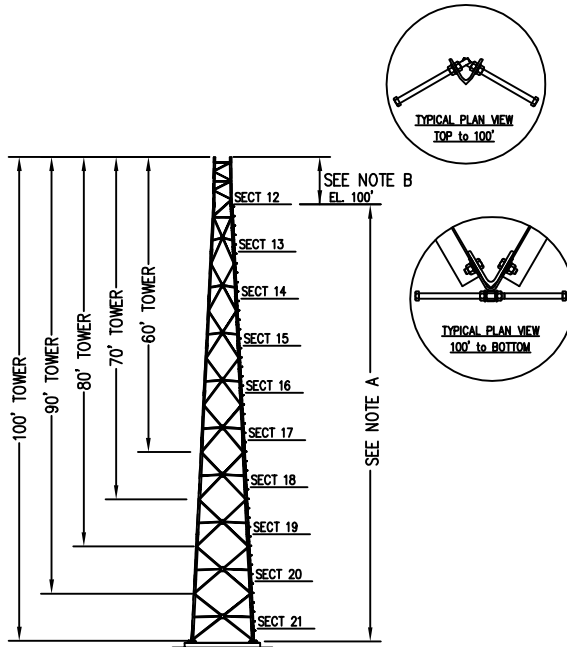
- 1) SECTIONS 11-12 UTILIZE STEP-PEGS THAT SIMPLY SCREW INTO PRE-PUNCHED 11/16" HOLES IN THE TOWER LEGS.
- 2) SECTIONS 13-21 UTILIZE STEP-PEG LADDER SECTIONS WHICH CLAMP ONTO THE TOWER LEG AT 2 POINTS.
- 3) THE VERY BOTTOM UTILIZES AN 18" LONG BASE STEP PEG LADDER THAT CLAMPS ONTO THE BASE FOOT WELDMENT.

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| | DRAWING NO. 000001.620.0118 | |
| CUSTOMER: | SITE: S1100 SERIES | SCALE: 300.000 |
| DATE: 19 NOV 04 | BY: | CHK: |
| TITLE: CLIMBING STEP-PEG KITS | | |



| S1200 STEP -PEG KITS | |
|----------------------|---------------|
| TOWER HEIGHT | KIT NUMBER |
| 100' | 4.98.1200.100 |
| 90' | 4.98.1200.090 |
| 80' | 4.98.1200.080 |
| 70' | 4.98.1200.070 |
| 60' | 4.98.1200.060 |

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NOTES:
 A. REFER TO DWG. 01.620.0100 FOR STEP PEG LADDER ASSEMBLY FOR 100' to BOTTOM.
 B. REFER TO DWG. 01.620.0041 FOR STEP PEG INSTALLATION FOR 100' to TOP.

NOTES: 1) SECTIONS 12 UTILIZE STEP-PEGS THAT SIMPLY SCREW INTO PRE-PUNCHED 11/16" HOLES IN THE TOWER LEGS.
 2) SECTIONS 13-21 UTILIZE STEP-PEG LADDER SECTIONS WHICH CLAMP ONTO THE TOWER LEG AT 2 POINTS.
 3) THE VERY BOTTOM UTILIZES AN 18" LONG BASE STEP PEG LADDER THAT CLAMPS ONTO THE BASE FOOT WELDMENT.

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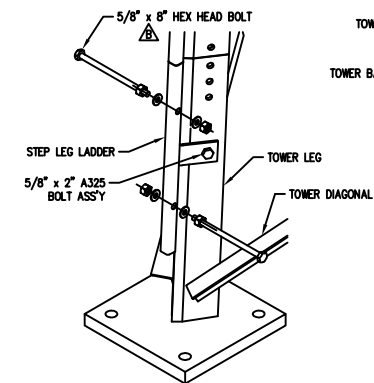
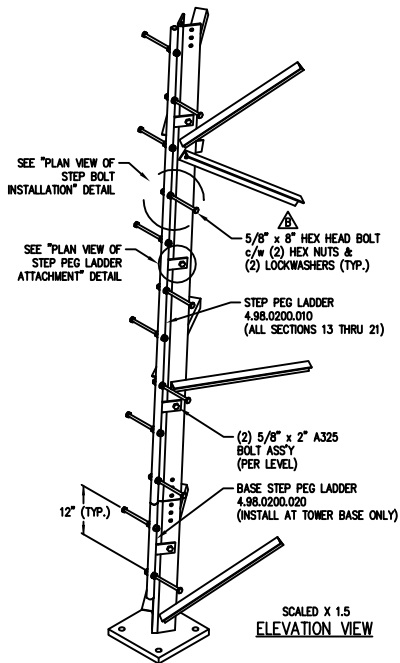
Trylon

DRAWING NO. 000001.620.0119

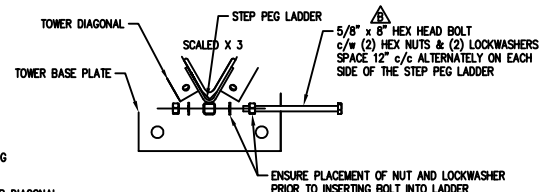
CUSTOMER: SITE: S1200 SERIES SCALE: 300.000

DATE: 19 NOV 04 BY: CHK: APP:

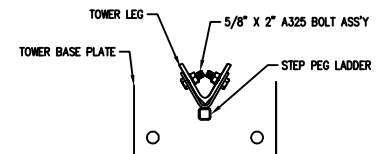
TITLE: CLIMBING STEP-PEG KITS



CLOSE-UP OF STEP BOLT AND TOWER CONNECTION



PLAN VIEW OF STEP BOLT INSTALLATION



PLAN VIEW OF STEP PEG LADDER ATTACHMENT

| 4.98.0200.010 | | 4.98.0200.020 | |
|-------------------------|-----|-------------------------|-----|
| DESCRIPTION | QTY | DESCRIPTION | QTY |
| 3.620.0070.001 | 1 | 3.620.0071.001 | 1 |
| 5/8" x 2" A325 BOLT | 7 | 5/8" x 2" A325 BOLT | 3 |
| 5/8" x 8" HEX HEAD BOLT | 10 | 5/8" x 8" HEX HEAD BOLT | 2 |
| 5/8" HEX NUT | 20 | 5/8" HEX NUT | 4 |
| 5/8" LOCKWASHER | 20 | 5/8" LOCKWASHER | 4 |
| 3/4" SEALS ZINC COATED | 4 | 3/4" SEALS ZINC COATED | 2 |

KIT NUMBERS:
 4.98.0200.010 - STANDARD 10' STEP PEG LADDER
 4.98.0200.020 - BASE STEP PEG LADDER

NOTES: 1) A STEP PEG LADDER IS AN ALTERNATIVE CLIMBING OPTION TO A STANDARD APEX CLIMBING LADDER. THE ADVANTAGES ARE: REDUCED WIND LOAD AND LOWER COST.
 2) USE THIS KIT ONLY FOR SUPER TITAN SECTIONS 13 THRU 21.
 3) FOR INSTALLATION OF SECTION 1-12HD SEE DWG 000001.620.0041.

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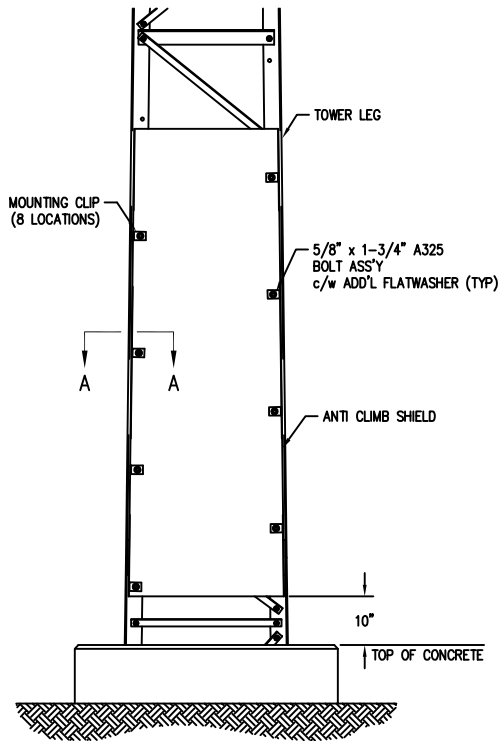
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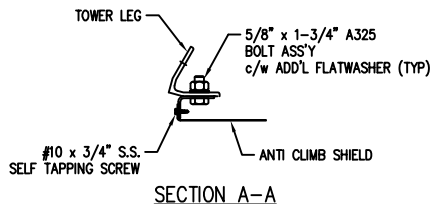
CUSTOMER: SITE: SCALE: 25.000

DATE: 05 JUL 04 BY: CHK: APP:

TITLE: STEP PEG LADDER ASSEMBLY



| KIT NUMBER | SECTION NUMBER | ANTI CLIMB SHIELD | MOUNTING CLIP |
|---------------|----------------|-------------------|----------------|
| 4.92.0001.001 | 1 | 3.620.0053.001 | 3.620.0053.200 |
| 4.92.0001.002 | 2 | 3.620.0053.002 | 3.620.0053.200 |
| 4.92.0001.003 | 3 | 3.620.0053.003 | 3.620.0053.200 |
| 4.92.0001.004 | 4 | 3.620.0053.004 | 3.620.0053.200 |
| 4.92.0001.005 | 5 | 3.620.0053.005 | 3.620.0053.200 |
| 4.92.0001.006 | 6 | 3.620.0053.006 | 3.620.0053.200 |
| 4.92.0001.007 | 7 | 3.620.0053.007 | 3.620.0053.200 |
| 4.92.0001.008 | 8 | 3.620.0053.008 | 3.620.0053.200 |
| 4.92.0001.009 | 9 | 3.620.0053.009 | 3.620.0053.200 |
| 4.92.0001.010 | 10 | 3.620.0053.010 | 3.620.0053.200 |
| 4.92.0001.011 | 11 | 3.620.0053.011 | 3.620.0053.200 |
| 4.92.0001.012 | 12 | 3.620.0053.012 | 3.620.0053.200 |



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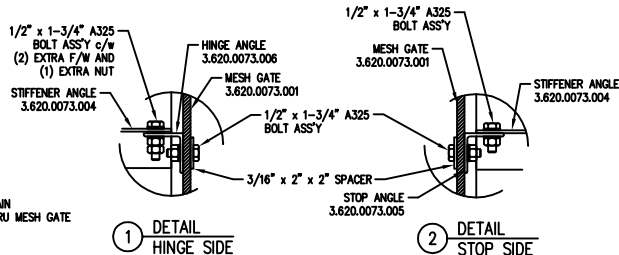
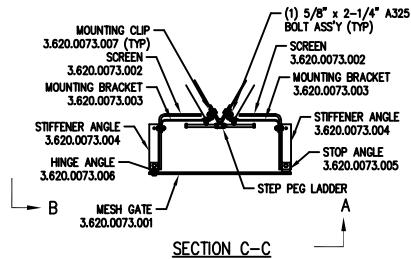
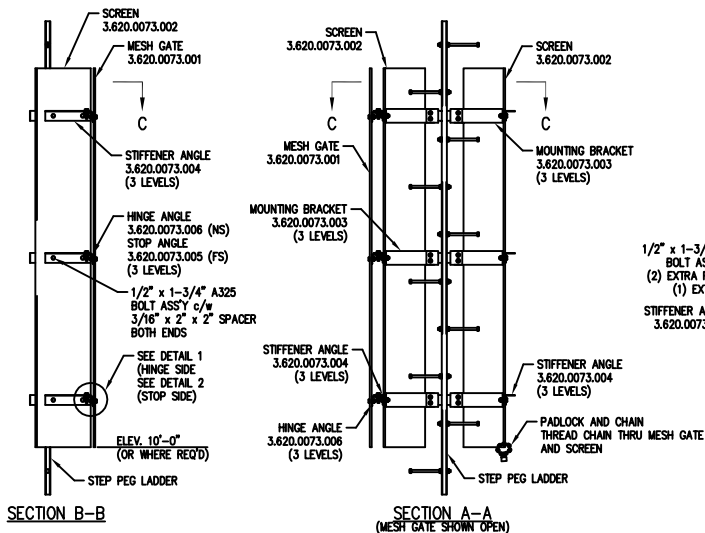
DRAWING NO. 000001.620.0044

CUSTOMER: SITE: SCALE: 20,000

DATE: 29 APR 03 BY: CHK: APP:

TITLE: ANTI CLIMB INSTALLATION

NOTES:



- NOTES: 1) ALL BOLTS ARE 1/2" x 1-3/4" A325 ASSEMBLIES UNLESS NOTED.
 2) THIS ANTI CLIMB KIT IS UTILIZED ONLY ON THE LEG WITH STEP PEG OR CLIMBING LADDER TO PREVENT UNAUTHORIZED CLIMBING.
 3) THIS KIT IS USED ONLY ON STSS SECTIONS 13 THRU 21.


KIT #4.92.0001.213

| REV. | BY: | CHK: | DESCRIPTION | DATE |
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DRAWING NO. 000001.620.0099

CUSTOMER: SITE: SCALE: 20.000

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| DATE: 06 JUL 04 | BY: | CHK: | APP: |
|-----------------|-----|------|------|

TITLE: ANTI CLIMB MESH ASSEMBLY



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