

# INSTALLATION MANUAL



LITERATURE PART #5.95.0000.000\*

Revision date: February 2012

\* 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](http://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.







*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](http://www.trylon.com)

## 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](mailto: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

## **TABLE OF CONTENTS**

| <b><u>DESCRIPTION</u></b>                            | <b><u>PAGE</u></b> |
|--|--------------------|
| <b>SUPERTITAN® SELF SUPPORT TOWERS</b>               |                    |
| Tower Overview .....                                 | 1                  |
| Instruction Sheet .....                              | 2                  |
| Section Assembly Drawings / Section 1 - 21 .....     | 3-25               |
| Top Section Angle Frames/ Top Mount Pipe Kits .....  | 26-27              |
| Short Foundation / Sections 1 – 12HD .....           | 28-41              |
| Base Feet Template / Sections 1 – 12HD .....         | 42                 |
| Base Feet Template Drawings / Sections 14 - 21 ..... | 43-50              |



The drawing illustrates the face widths and section details for two types of towers: Knockdown and Pre-assembled.

**Face Widths (Left):**

- 12" FACE WIDTH
- 15" FACE WIDTH
- 18" FACE WIDTH
- 21" FACE WIDTH
- 24" FACE WIDTH
- 27" FACE WIDTH
- 30" FACE WIDTH
- 33" FACE WIDTH
- 36" FACE WIDTH
- 39" FACE WIDTH
- 42" FACE WIDTH
- 45" FACE WIDTH
- 48" FACE WIDTH

**Section Details (Right):**

The section details are organized into two main sections: **KNOCKDOWN TOWER HEIGHT AND KIT NUMBER** and **PRE-ASSEMBLED TOWER HEIGHT AND KIT NUMBER**.

**KNOCKDOWN TOWER HEIGHT AND KIT NUMBER:**

| SECT No | 12                        | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|---------|---------------------------|----|----|---|---|---|---|---|---|---|---|---|
|         | 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    |    |    |   |   |   |   |   |   |   |   |   |

**PRE-ASSEMBLED TOWER HEIGHT AND KIT NUMBER:**

| SECT No | 12                        | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |
|---------|---------------------------|----|----|---|---|---|---|---|---|---|---|---|
|         | 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    |    |    |   |   |   |   |   |   |   |   |   |

## 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) Assembly 5 foot base section and place in excavation. Top of base leg must be 18" 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 plies 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 personnel 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 slack 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 on 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 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.

CONFIDENTIAL - ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DISCUSSION, RECORDS, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.



|             |                         |        |       |
|-------------|-------------------------|--------|-------|
| CUSTOMER:   | SITE:                   | SCALE: | 1.000 |
| DATE:       | 6 SEP 03                | BY:    | MAW   |
| CHK:        | BCP                     | APP:   | JB    |
| TITLE:      | SUPERTITAN INSTRUCTIONS |        |       |
| DRAWING NO. | 620.0046                |        |       |

DATE

DESCRIPTION

CHK. BY:

REV. BY:

## 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                          | 1/3  |
|  | 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  |

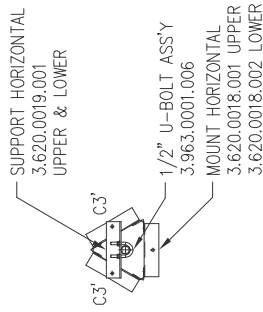
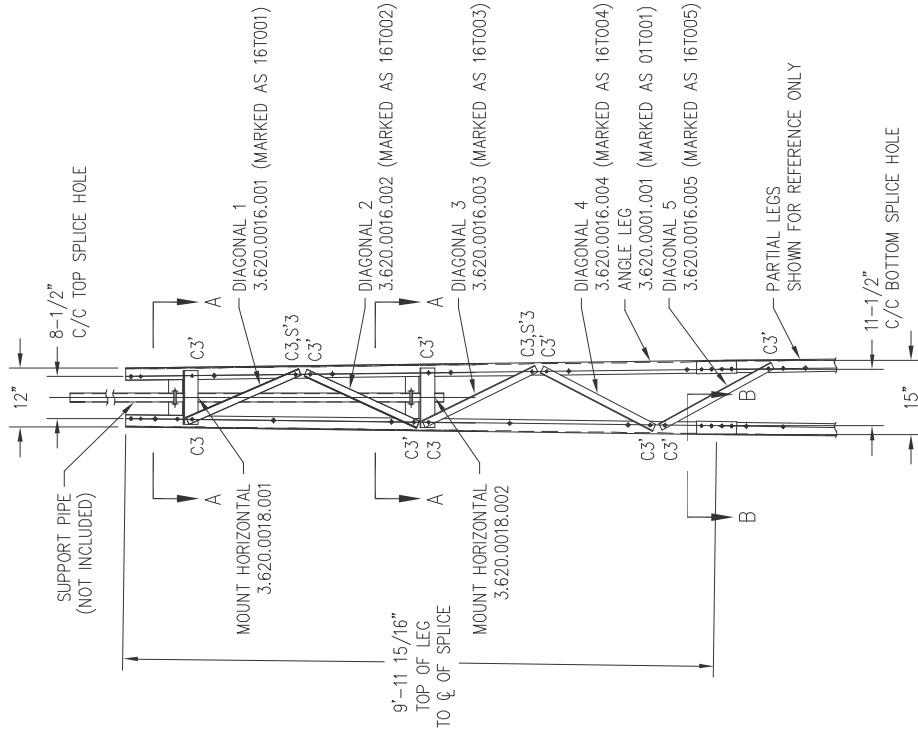
\* Nut rotation is rotation relative to a bolt regardless of whether the nut or bolt is turned. Tolerance on rotation: 30° over or under. This Table applies to coarse-thread heavy-hex structural bolts of all sizes and lengths used with heavy-hex semi-finished nuts.

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

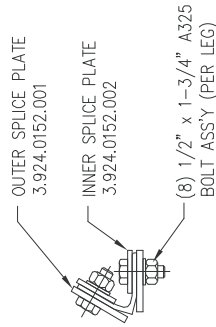
‡ Bolt length is measured from the underside of the head to the extreme end of point.

| 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                     |





SUPPORT INSTALLATION  
SECTION A-A



SPLICE DETAIL #1  
SECTION B-B

| 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   |

PRE-ASSEMBLED TOP SECTION #1 - KIT #5.95.0012.000  
KNOCK-DOWN TOP SECTION #1 - KIT #5.94.0012.000



NOTES:

COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD.  
ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT  
WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.



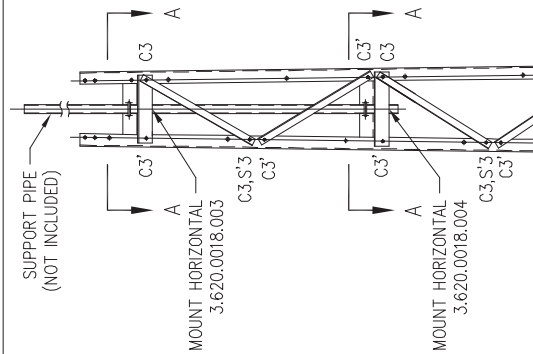
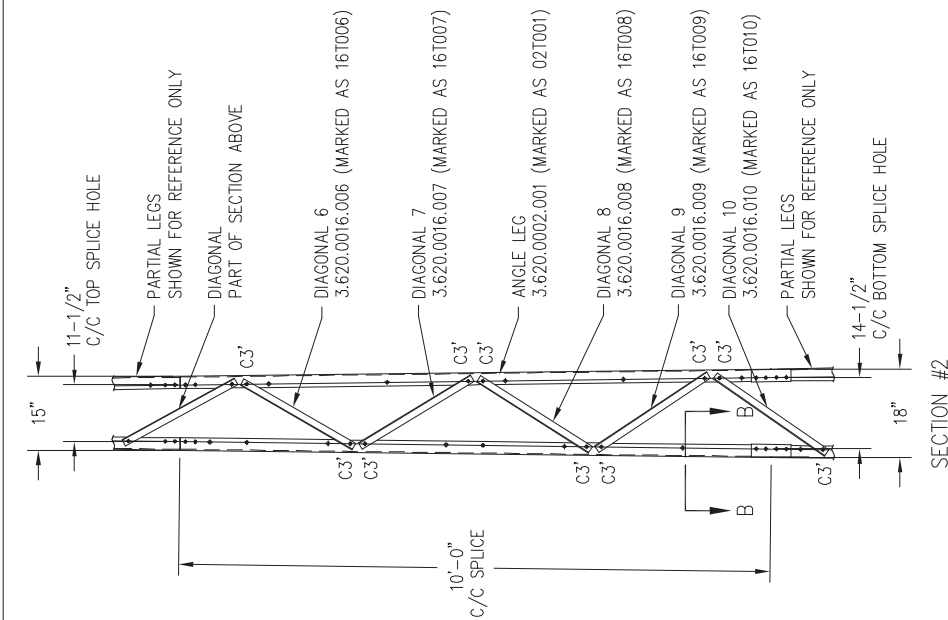
|                        |           |                 |        |      |        |
|------------------------|-----------|-----------------|--------|------|--------|
| CUSTOMER:              |           | SITE:           | SCALE: |      | 25.000 |
| DATE:                  | 23 JAN 03 | BY:             | ML     | CHK: | MAW    |
| TITLE:                 |           | DRAWING NO.     |        | APP: |        |
| ASSEMBLY OF SECTION #1 |           | 000001.620.0002 |        | JB   |        |

DATE

DESCRIPTION

REV. BY: CHK. BY:





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

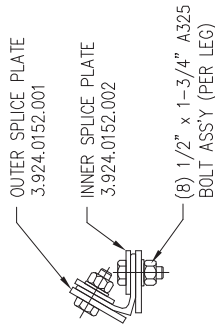
| BOLT SCHEDULE TOP SECTION #2 |                                       |     |
|------------------------------|---------------------------------------|-----|
| MARK                         | SIZE                                  | QTY |
| C3                           | 1/2" x 1-1/2" A325            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

## 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



SPLICE DETAIL #1

SECTION B-B

PRE-ASSEMBLED SECTION #2 - KIT #3.93.0021.000  
KNOCK-DOWN SECTION #2 - KIT #5.94.0021.000

## SUPPORT INSTALLATION

SECTION A-A

NOTES:



COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD.  
ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT  
WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

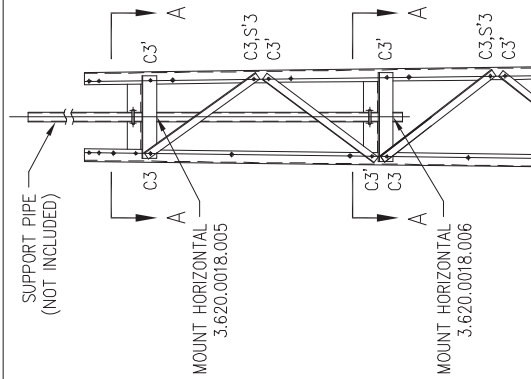
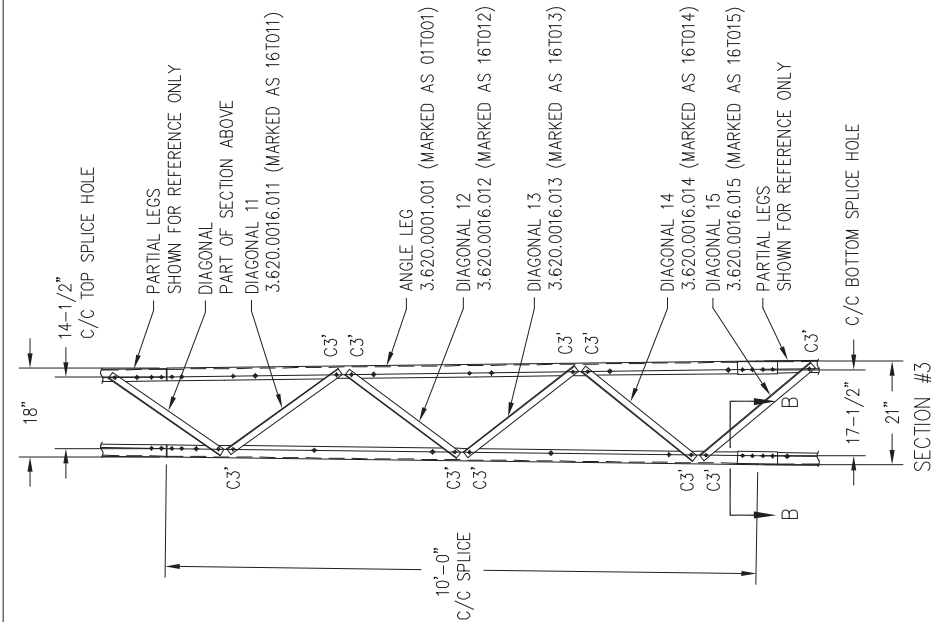


**TRYLON Tsf**

|                        |           |     |                 |      |        |
|------------------------|-----------|-----|-----------------|------|--------|
| CUSTOMER:              | SITE:     |     | SCALE:          |      | 25,000 |
| DATE:                  | 24 JAN 03 | BY: | ML              | CHK: | MAW    |
|                        |           |     | APP: JB         |      |        |
| TITLE:                 |           |     | DRAWING NO.     |      |        |
| ASSEMBLY OF SECTION #2 |           |     | 000001.620.0003 |      |        |

|                        |                 |
|------------------------|-----------------|
| ASSEMBLY OF SECTION #2 | 000001.620.0003 |
|------------------------|-----------------|

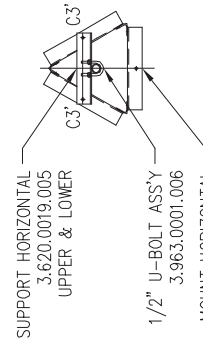
| REV. | REV. BY: | CHK. BY: | DESCRIPTION | DATE |
|------|----------|----------|-------------|------|
|------|----------|----------|-------------|------|



## TOP SECTION #3

(INCLUDES ALL PARTS SHOWN IN SECTION #3)

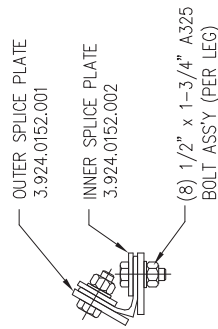
PRE-ASSEMBLED TOP SECTION #3 - KIT #5.95.0032.000  
KNOCK-DOWN TOP SECTION #3 - KIT #5.94.0032.000



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  |
| S'3                          | 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:



COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD.  
ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT  
WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.



**TRYLON Tsf**

|                        |           |     |        |      |                 |
|------------------------|-----------|-----|--------|------|-----------------|
| CUSTOMER:              | SITE:     |     | SCALE: |      | 25,000          |
| DATE:                  | 24 JAN 03 | BY: | ML     | CHK: | MAW             |
| TITLE:                 |           |     |        | APP: | JB              |
| DRAWING NO.            |           |     |        |      | 000001.620.0004 |
| ASSEMBLY OF SECTION #3 |           |     |        |      |                 |

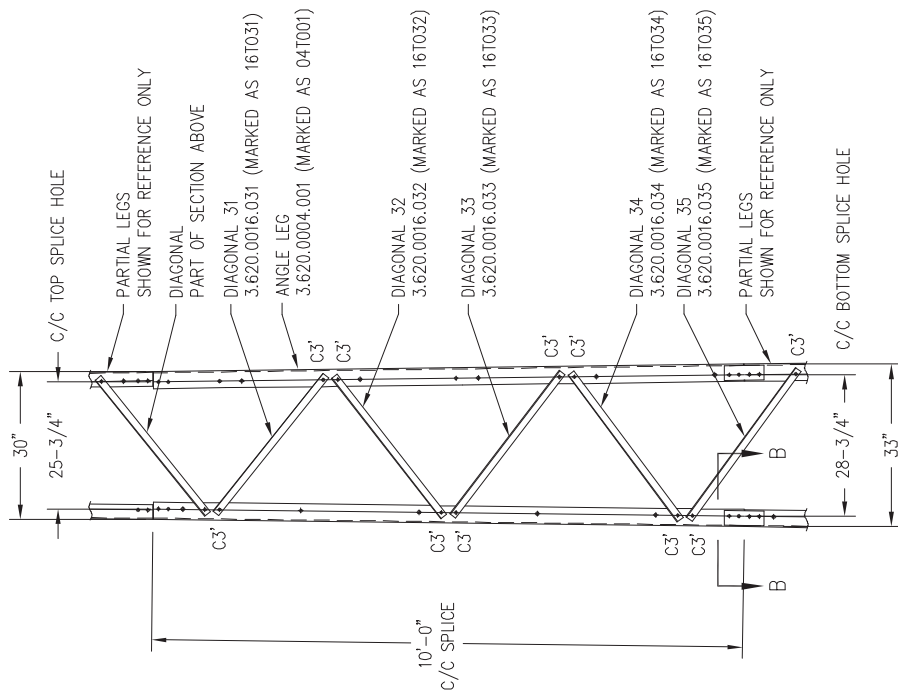
|                        |                 |
|------------------------|-----------------|
| ASSEMBLY OF SECTION #3 | 000001.620.0004 |
|------------------------|-----------------|





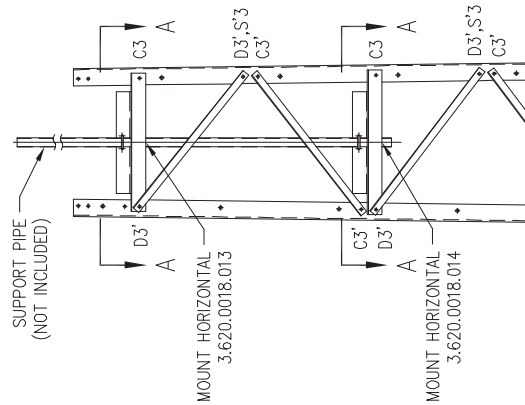






SECTION #Z

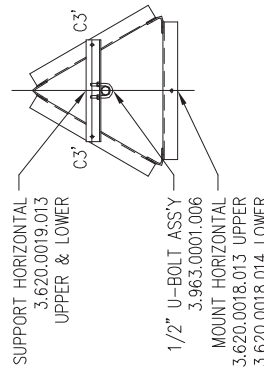
PRE-ASSEMBLED SECTION #7 - KIT #5.95.0071.000  
 KNOCK-DOWN SECTION #7 - KIT #5.94.0071.000



TOP SECTION #Z

(INCLUDES ALL PARTS SHOWN IN SECTION #7)

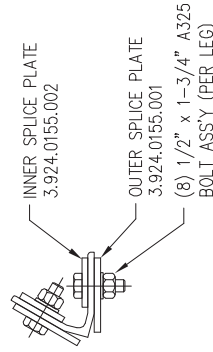
PRE-ASSEMBLED TOP SECTION #7 - KIT #5.95.0072.000  
 KNOCK-DOWN TOP SECTION #7 - KIT #5.94.0072.000



SECTION A-A

| BOLT SCHEDULE SECTION #7 |                                 |     |
|--------------------------|---------------------------------|-----|
| MARK                     | SIZE                            | QTY |
| C3'                      | 1/2" x 1-1/2" A325 + FLATWASHER | 30  |

| BOLT SCHEDULE TOP SECTION #7 |                                       |     |
|------------------------------|---------------------------------------|-----|
| 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   |



SPLICE DETAIL #4  
 SECTION B-B

NOTES:

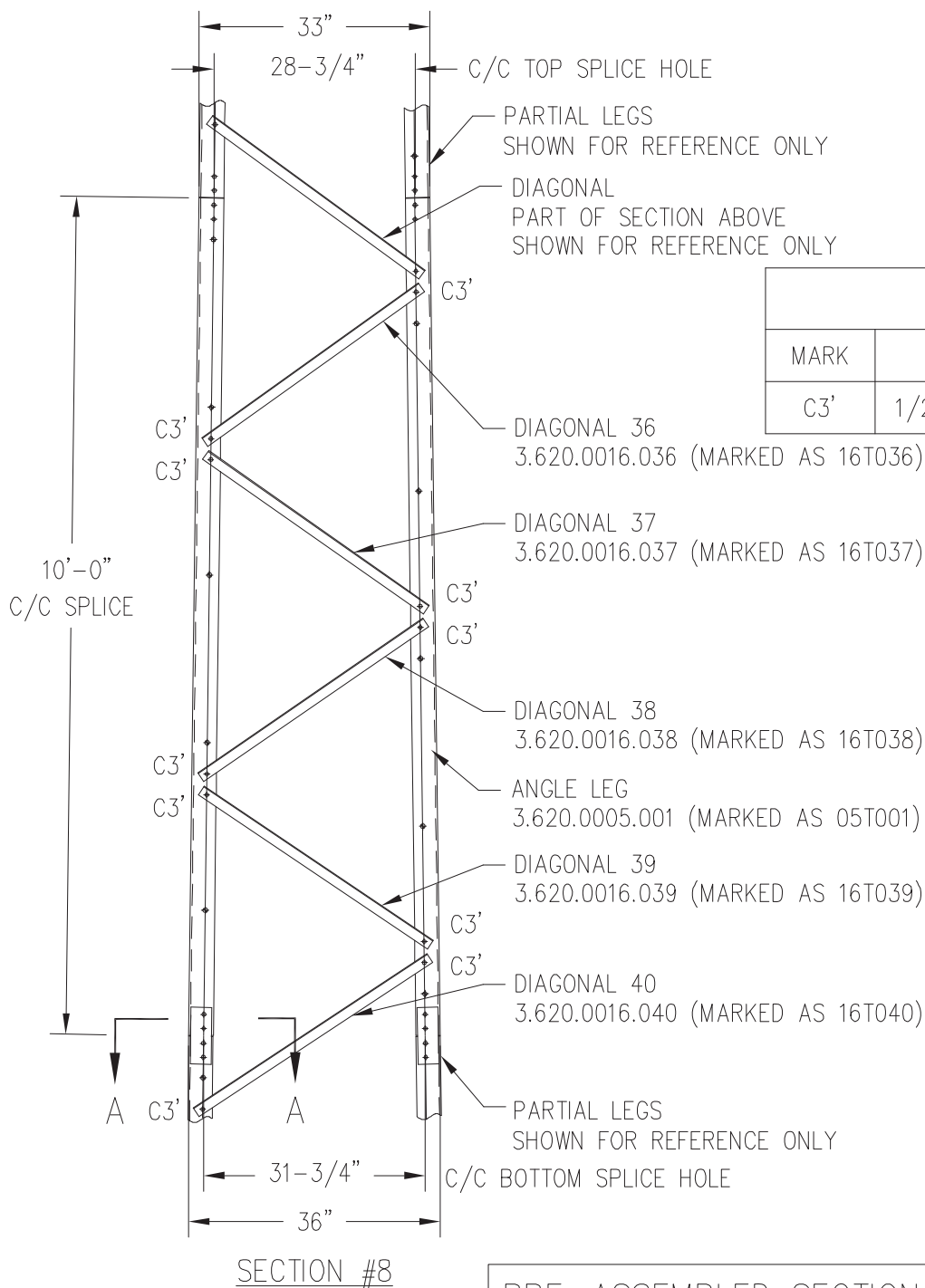


COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

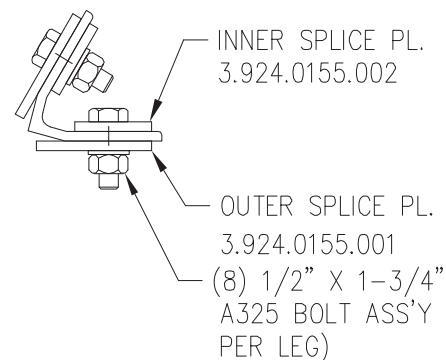


|                               |                             |          |         |
|-------------------------------|-----------------------------|----------|---------|
| CUSTOMER:                     | SITE:                       | SCALE:   | 25.000  |
| DATE: 28 JAN 03               | BY: ML                      | CHK: MAM | APP: JB |
| TITLE: ASSEMBLY OF SECTION #7 | DRAWING NO. 000001.620.0008 |          |         |

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



| 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

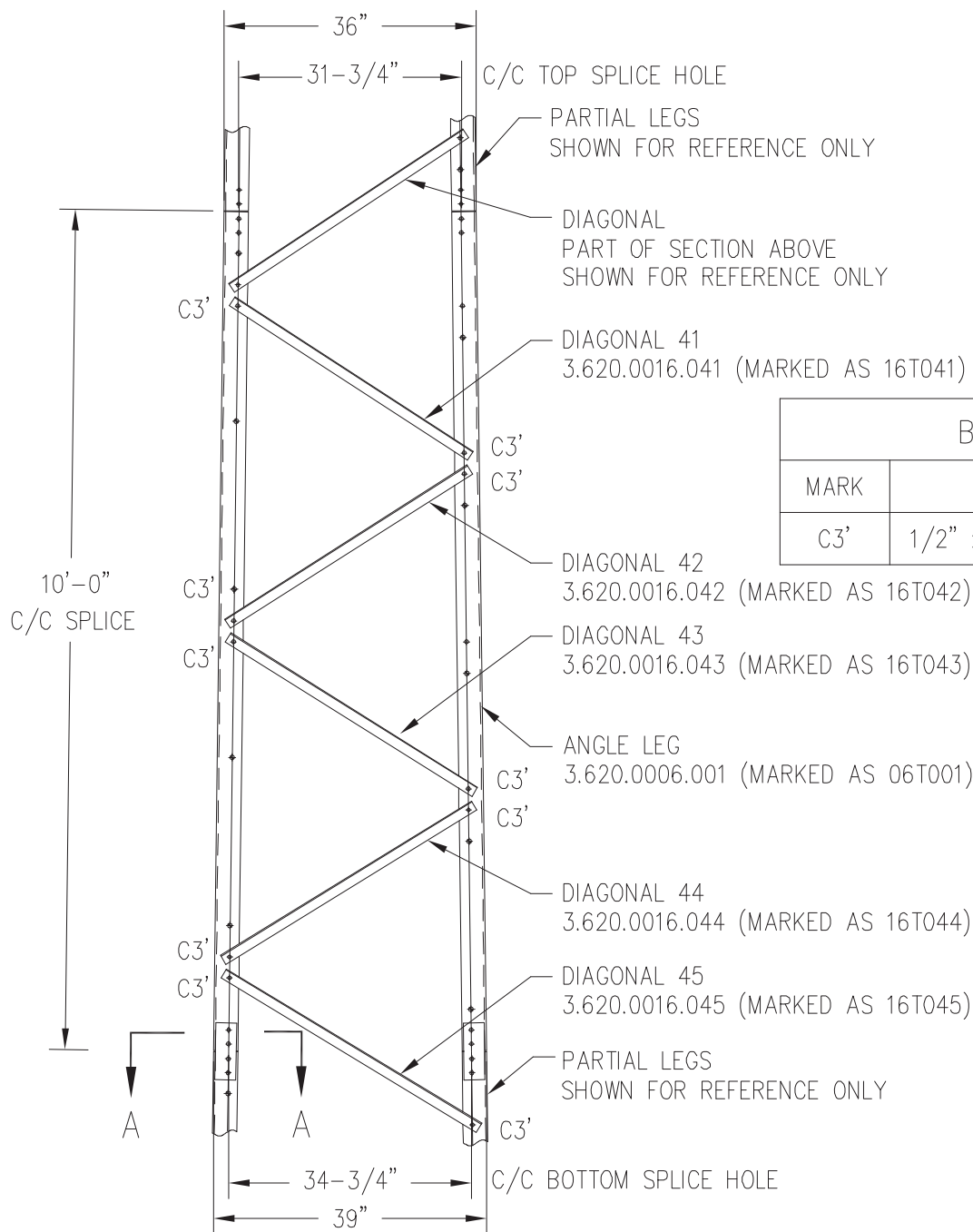
COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

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

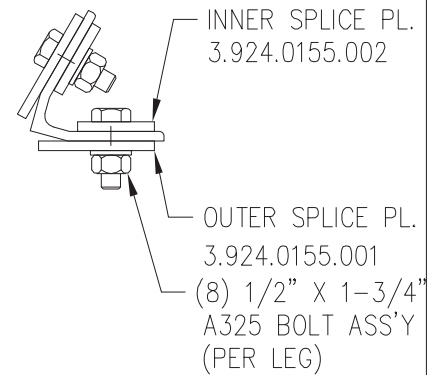
NOTES:



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



| 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 #9 - KIT #5.95.0091.000  
KNOCK-DOWN SECTION #9 - KIT #5.94.0091.000

COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

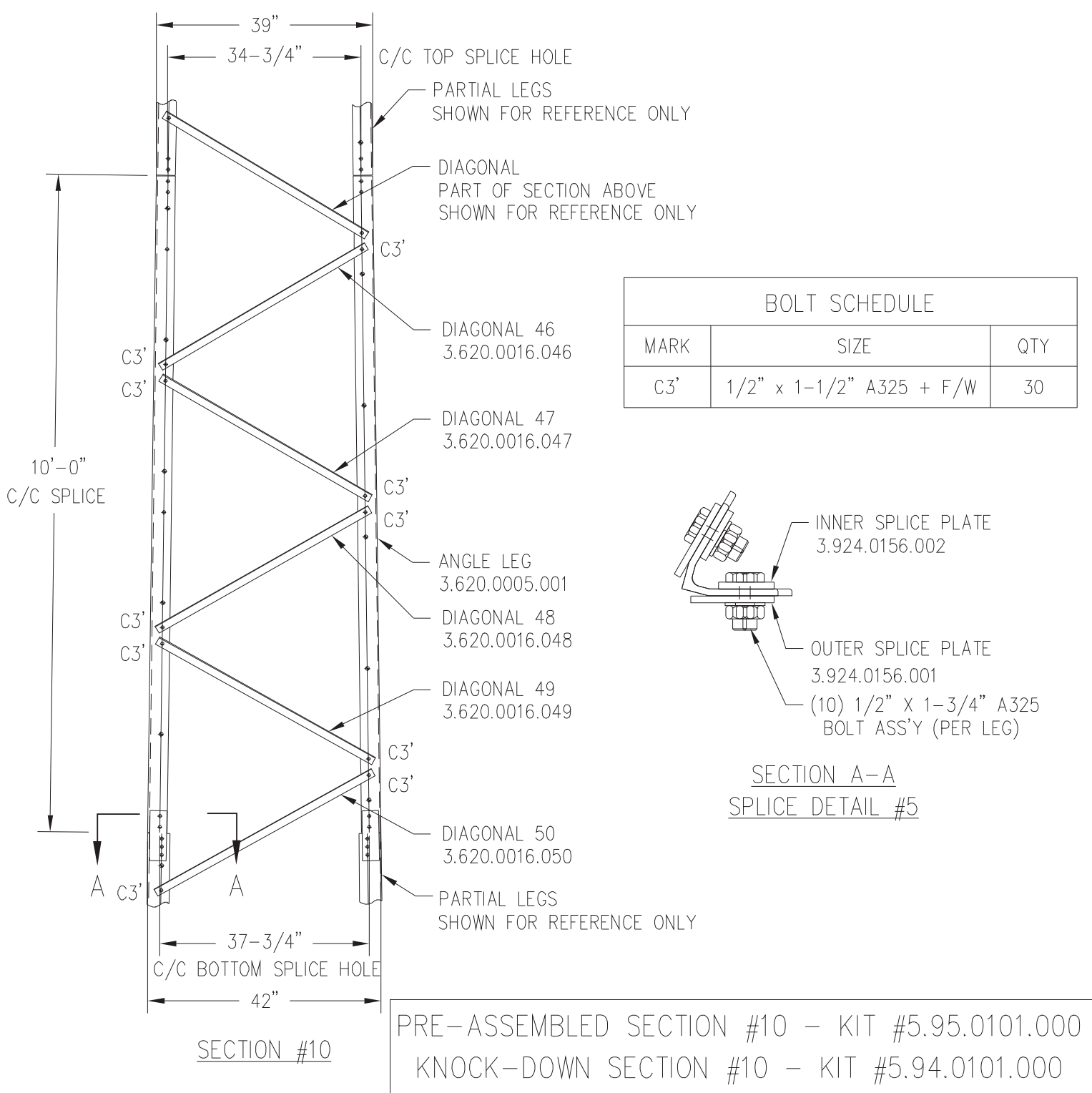
| REV. | REV. BY: | CHK. BY: | DESCRIPTION | DATE |
|------|----------|----------|-------------|------|
|      |          |          |             |      |

NOTES:



|                               |                             |          |         |
|-------------------------------|-----------------------------|----------|---------|
| CUSTOMER:                     | SITE:                       | SCALE:   | 25.000  |
| DATE: 27 JAN 03               | BY: AL                      | CHK: MAW | APP: JB |
| TITLE: ASSEMBLY OF SECTION #9 | DRAWING NO. 000001.620.0010 |          |         |





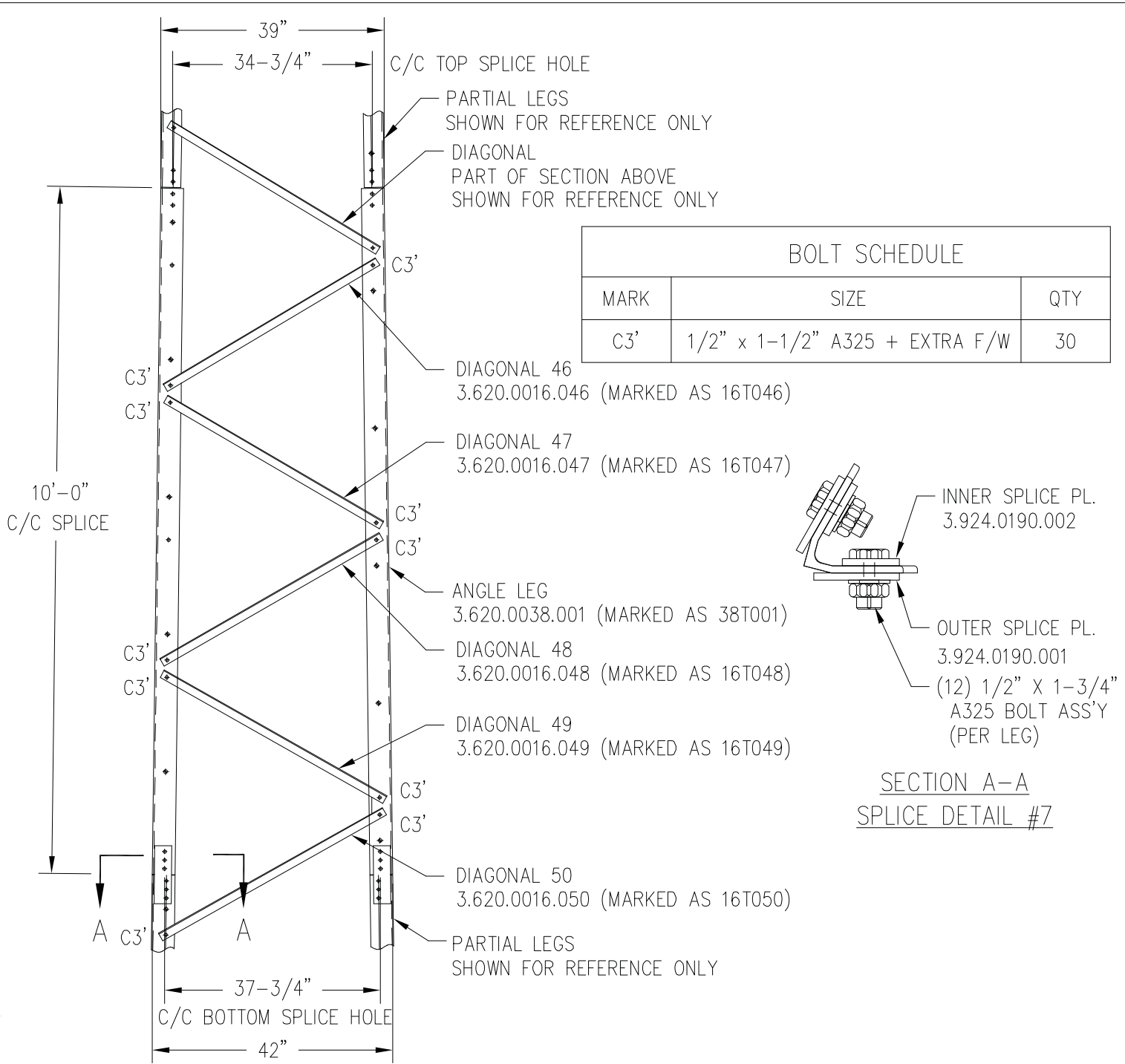
COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

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

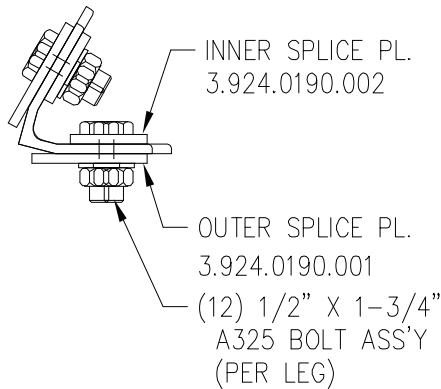
NOTES:



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



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



SECTION A-A  
SPLICE DETAIL #7

SECTION #10HD

PRE-ASSEMBLED SECTION #10HD - KIT #5.95.0101.0HD  
KNOCK-DOWN SECTION #10HD - KIT #5.94.0101.0HD

CONFIDENTIAL:  
ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF  
TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION,  
RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN  
CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

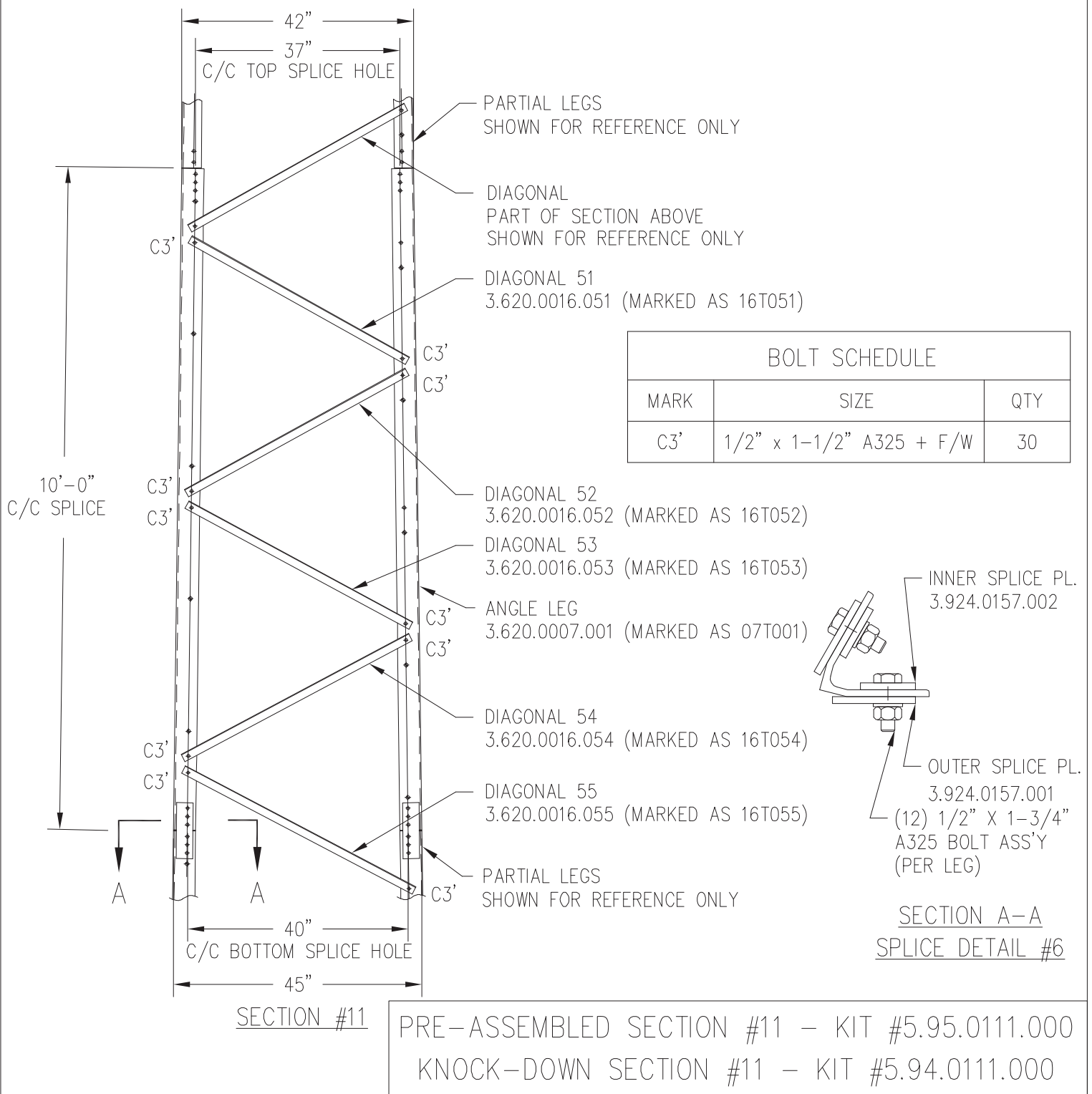
| REV. | REV. BY: | CHK. BY: | DESCRIPTION | DATE |
|------|----------|----------|-------------|------|
|      |          |          |             |      |

NOTES:



|                               |  |         |  |                      |  |
|-------------------------------|--|---------|--|----------------------|--|
| CUSTOMER:                     |  | SITE:   |  | SCALE: 25.000        |  |
| DATE: 09 APR 07               |  | BY: MRH |  | CHK: CR              |  |
|                               |  |         |  | APP: JB              |  |
| TITLE: SECTION 10HD ANGLE LEG |  |         |  | DRAWING NO. 620.0128 |  |

\\ENG-SERVER\ommed\VALU.LD-DRAW\ENG\620.0128-1.dwg - 3/22/2007 10:36:03 AM - mrcugh



COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

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

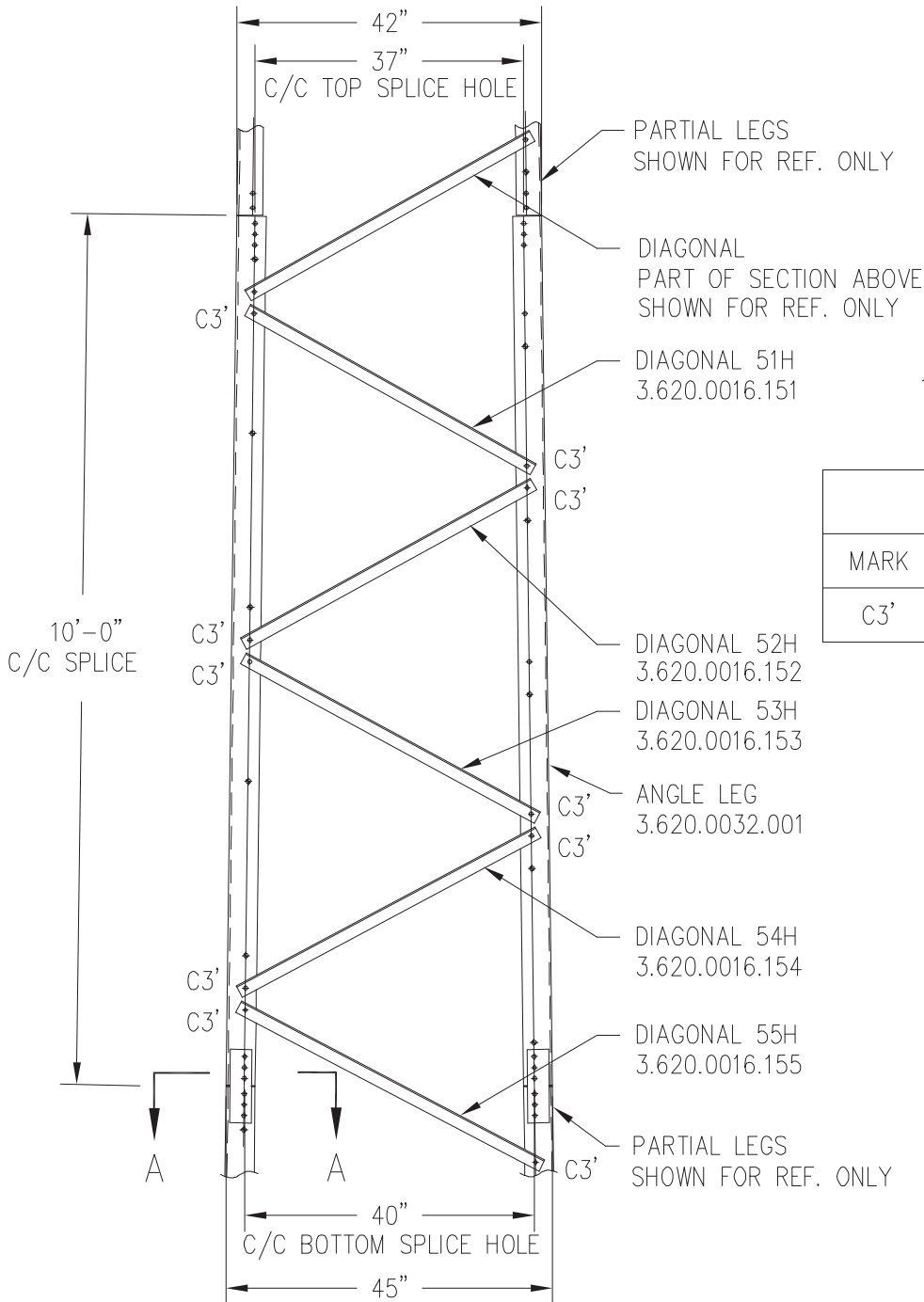
NOTES:



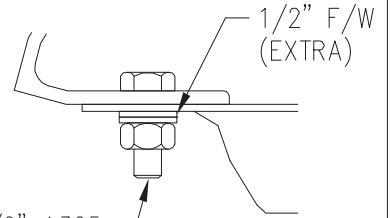
|                                   |                                |             |            |
|-----------------------------------|--------------------------------|-------------|------------|
| CUSTOMER:                         | SITE:                          | SCALE:      | 25.000     |
| DATE:<br>27 JAN 03                | BY:<br>AL                      | CHK:<br>MAW | APP:<br>JB |
| TITLE:<br>ASSEMBLY OF SECTION #11 | DRAWING NO.<br>000001.620.0012 |             |            |

PRE-ASSEMBLED SECTION #11HD – KIT #5.95.0111.0HD  
KNOCK-DOWN SECTION #11HD – KIT #5.94.0111.0HD

SECTION #11HD

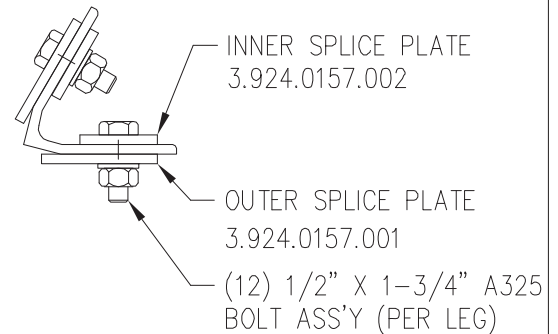


TOWER MEMBER CONN.



BOLT SCHEDULE

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



SECTION A-A  
SPLICE DETAIL #6

COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

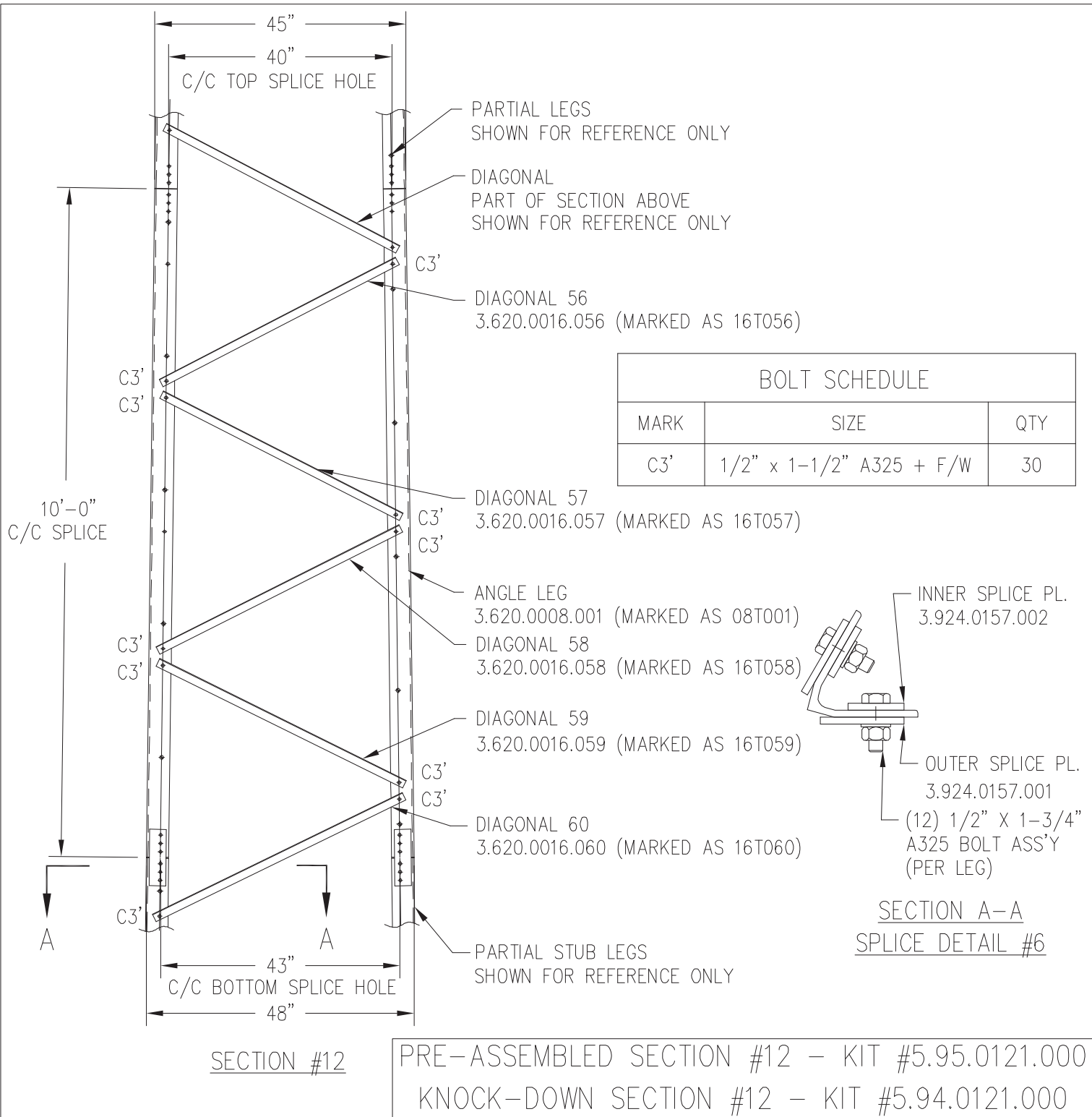
|      |          |          |                           |           |
|------|----------|----------|---------------------------|-----------|
| B    | MRH      | TLD      | REVISED DIAGONAL PART No. | NOV 30 06 |
| A    | MRH      | JAG      | ISSUED FOR CONSTRUCTION   | 1 JUN 05  |
| REV. | REV. BY: | CHK. BY: | DESCRIPTION               | DATE      |

NOTES:



|                                     |                                |             |             |
|-------------------------------------|--------------------------------|-------------|-------------|
| CUSTOMER:                           | SITE:                          | SCALE:      | 25.000      |
| DATE:<br>3 JUN 04                   | BY:<br>MAW                     | CHK:<br>JAG | APP:<br>JAG |
| TITLE:<br>ASSEMBLY OF SECTION #11HD | DRAWING NO.<br>000001.620.0026 |             |             |





COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

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

NOTES:

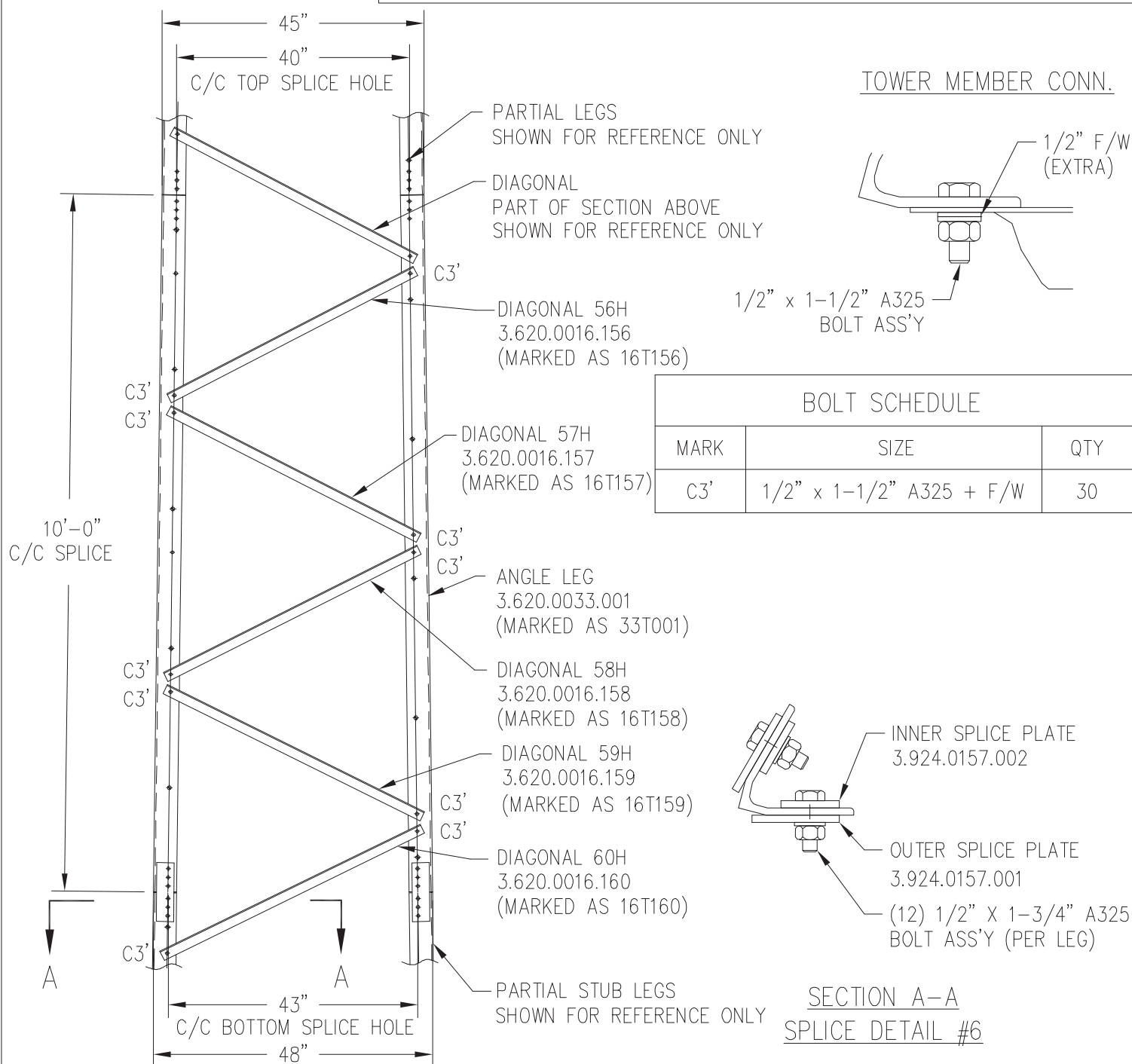


|                                   |                                |             |            |
|-----------------------------------|--------------------------------|-------------|------------|
| CUSTOMER:                         | SITE:                          | SCALE:      | 25.000     |
| DATE:<br>27 JAN 03                | BY:<br>AL                      | CHK:<br>MAW | APP:<br>JB |
| TITLE:<br>ASSEMBLY OF SECTION #12 | DRAWING NO.<br>000001.620.0013 |             |            |

## SECTION #12HD

PRE-ASSEMBLED SECTION #12HD – KIT #5.95.0121.0HD

KNOCK-DOWN SECTION #12HD – KIT #5.94.0121.0HD



CONFIDENTIAL:  
ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF  
TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION,  
RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN  
CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

| A    | MRH      | JAG      | ISSUED FOR CONSTRUCTION | 1 JUN 05 |
|------|----------|----------|-------------------------|----------|
| REV. | REV. BY: | CHK. BY: | DESCRIPTION             | DATE     |

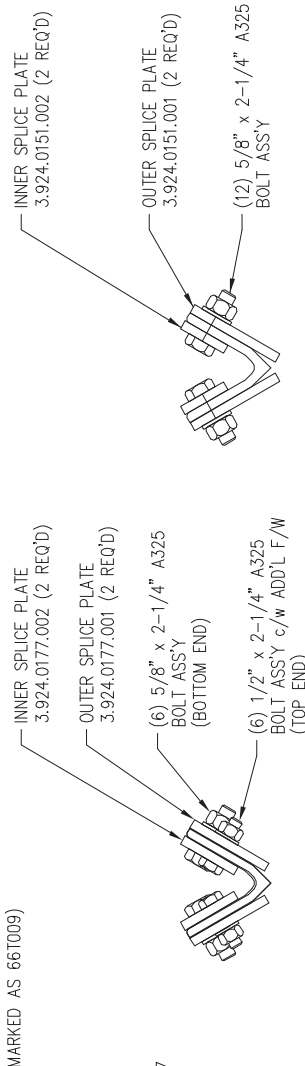
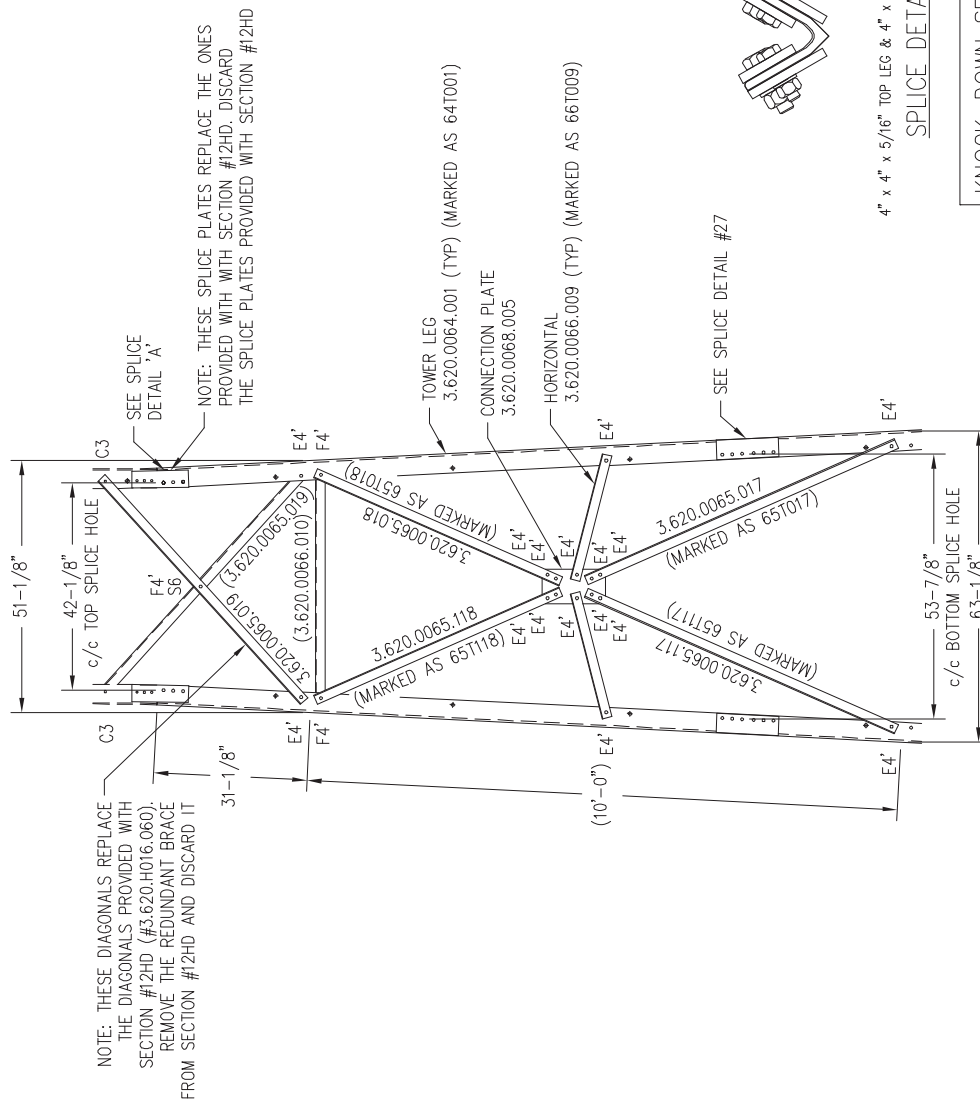
NOTES:



|                                     |                           |             |            |
|-------------------------------------|---------------------------|-------------|------------|
| CUSTOMER:                           | SITE:                     | SCALE:      | 25.000     |
| DATE:<br>01 JUN 05                  | BY:<br>MRH                | CHK:<br>JAG | APP:<br>JB |
| TITLE:<br>ASSEMBLY OF SECTION #12HD | DRAWING NO.<br>1.620.0027 |             |            |

- (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. TOWER MEMBERS ARE IDENTICAL ON ALL (3) FACES (UNLESS NOTED OTHERWISE).
- (5) TOWER SECTION SHOULD BE ASSEMBLED ON A LEVEL SURFACE i.e., LEVELED TIMBERS OR EQUAL.
- (6) ALL SPACERS ARE 2" x 2" x THICKNESS NOTED.
- (7) WHERE SUFFIX (") FOLLOWS BOLT DESCRIPTION AN ADDITIONAL FLAT WASHER IS REQUIRED.
- (8) WHERE SUFFIX (') FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 9/16"ø.
- (9) WHERE SUFFIX (") FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 13/16"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 BOLT ASS'Y                    | 6   |
| E4            | 5/8" x 2" A325 BOLT ASS'Y + EXTRA FLATWASHER     | 48  |
| F4            | 5/8" x 2-1/4" A325 BOLT ASS'Y + EXTRA FLATWASHER | 9   |
| S6            | 3/8" x 2" x 2" SPACER c/w 11/16"Ø HOLE           | 3   |



4" x 4" x 3/8" TOP & BOTTOM LEG  
SPICE DETAIL #27  
PART # 4.924.0001.027

4" x 4" x 5/16" TOP LEG & 4" x 4" x 3/8" BOTTOM LEG  
(TOP END)  
SPICE DETAIL 'A'

KNOCK-DOWN SECTION #13 - KIT #5.94.0131.000

CONFIDENTIAL: ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.



**TRYLON Tsf**

|           |           |                 |        |          |
|-----------|-----------|-----------------|--------|----------|
| CUSTOMER: | SITE:     | SUPERTITAN S.S. | SCALE: | 25,000   |
| DATE:     | 09 JUN 04 | BY:             | MAW    | CHK: JAG |
|           |           |                 | APP:   | JB       |

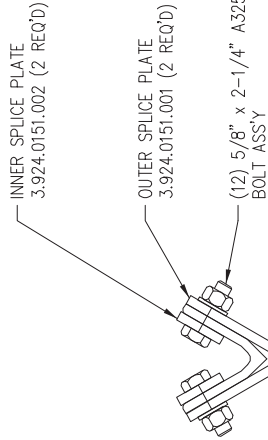
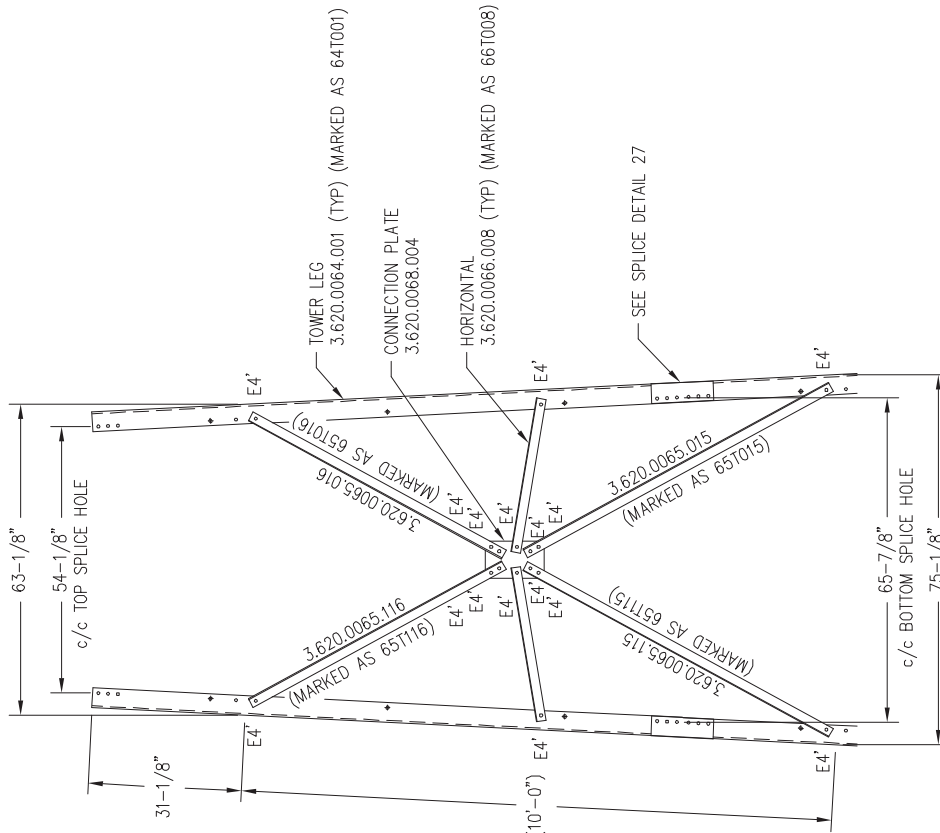
|        |                     |             |                 |
|--------|---------------------|-------------|-----------------|
| TITLE: | SECTION 13 ASSEMBLY | DRAWING NO. | 000001.620.0058 |
|--------|---------------------|-------------|-----------------|

NOTES:

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  |



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

SPLICE DETAIL #27

PART # 4.924.0001.027

KNOCK-DOWN SECTION #14 - KIT #5.94.0141.000

CONFIDENTIAL - ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. NO DISCLOSURE, REPRODUCTION, OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

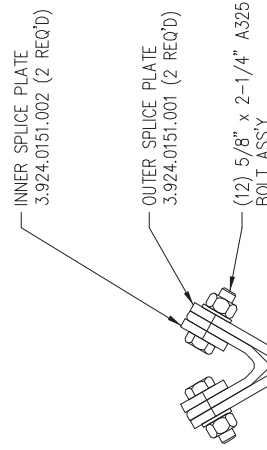
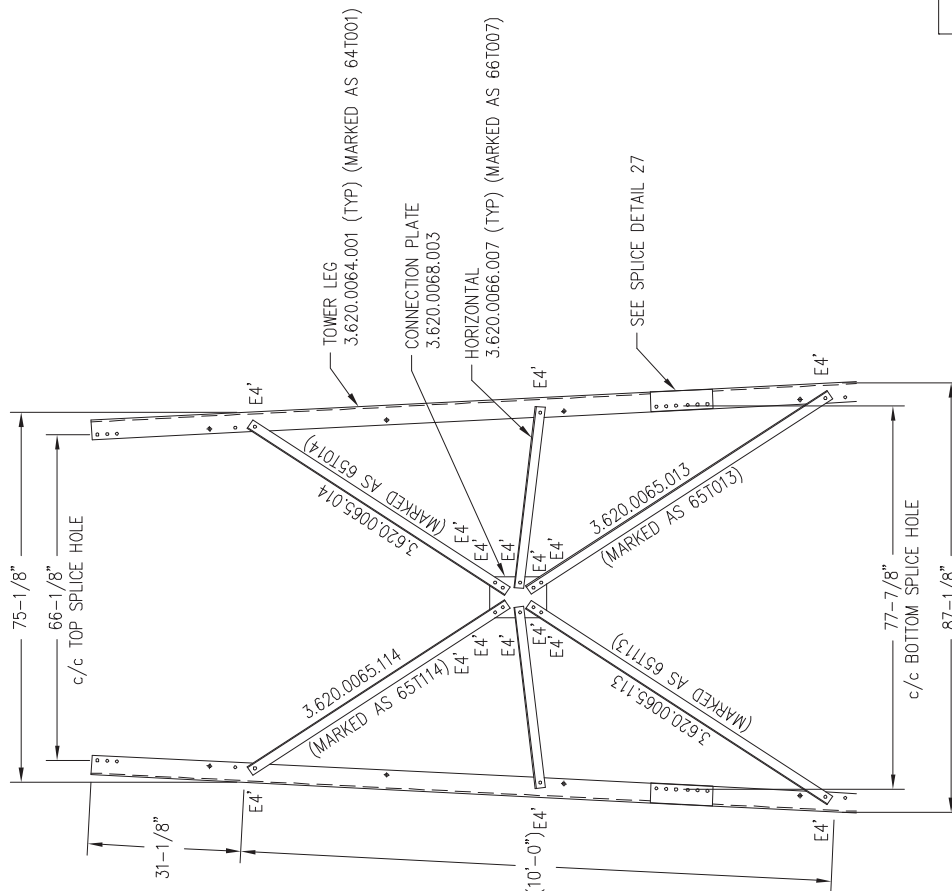


NOTES:

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

- 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. TOWER MEMBERS ARE IDENTICAL ON ALL (3) FACES (UNLESS NOTED OTHERWISE).
- 5) TOWER SECTION SHOULD BE ASSEMBLED ON A LEVEL SURFACE i.e., LEVELLED TIMBERS OR EQUAL.
- 6) ALL SPACERS ARE 2' x 2' x THICKNESS NOTED.
- 7) WHERE SUFFIX (') FOLLOWS BOLT DESCRIPTION AN ADDITIONAL FLAT WASHER IS REQUIRED.
- 8) WHERE SUFFIX (") FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 9/16"ø.
- 9) WHERE SUFFIX (") FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 13/16"ø.
- 10) 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  |



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

## SPLICE DETAIL #27

PART # 4.924.0001.027

CONFIDENTIAL: ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.



|           |           |                 |     |        |        |
|-----------|-----------|-----------------|-----|--------|--------|
| CUSTOMER: | SITE:     | SUPERTITAN S.S. |     | SCALE: | 25.000 |
| DATE:     | 09 JUN 04 | BY:             | MAW | CHK:   | JAC    |
|           |           |                 |     | APP:   | JB     |
| TITUL:    |           | DRAWING NO.     |     |        |        |

SECTION 15 ASSEMBLY

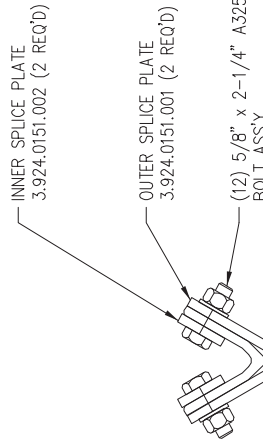
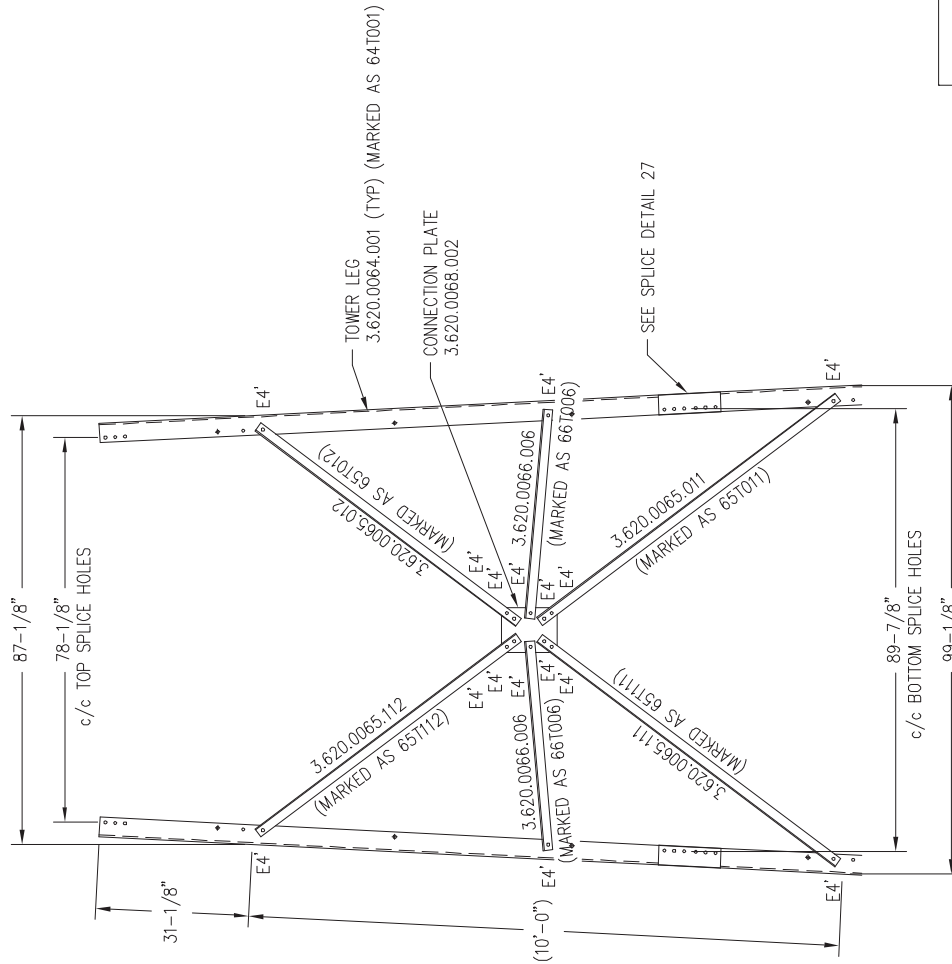
NOTES:



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  |



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

CONFIDENTIAL - ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. NO DISCUSSION, REPRODUCTION, OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

NOTES:

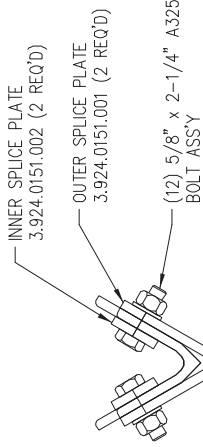
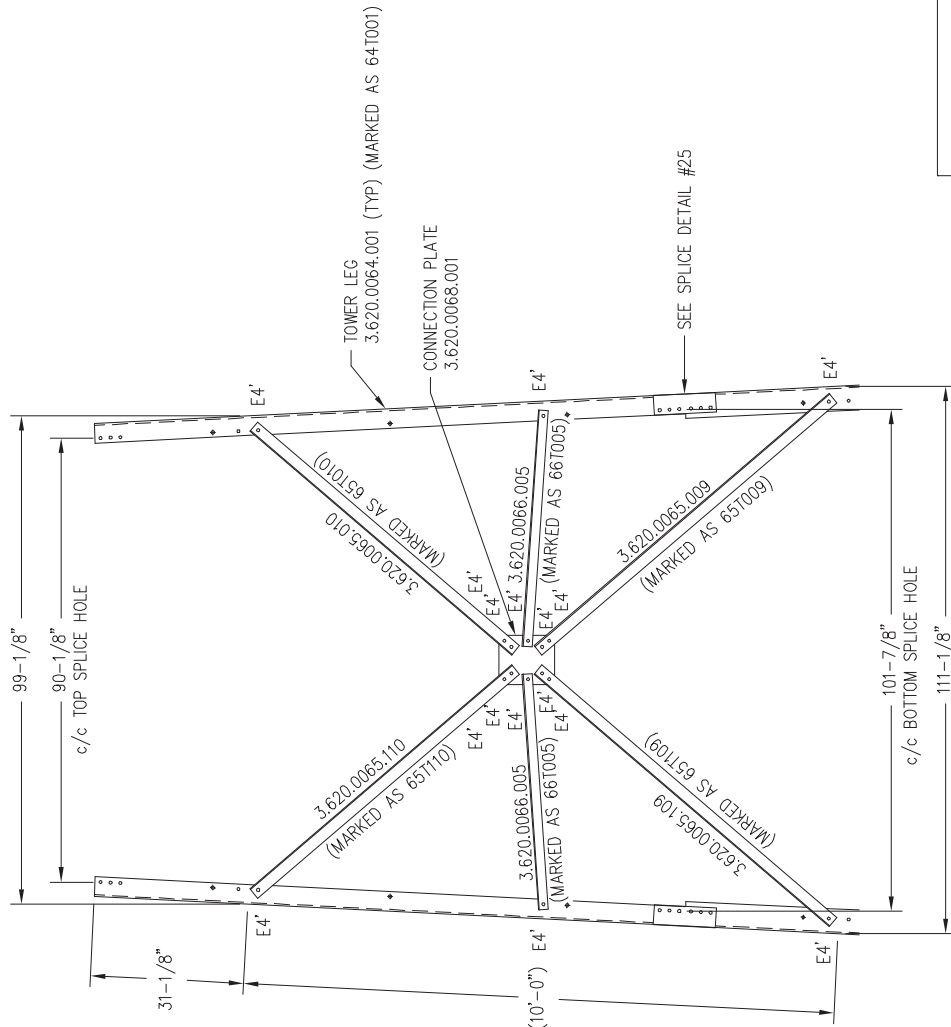


|             |           |       |                 |                 |        |
|-------------|-----------|-------|-----------------|-----------------|--------|
| CUSTOMER:   |           | SITE: | SUPERITIAN S.S. | SCALE:          | 25.000 |
| DATE:       | 09 JUN 04 | BY:   | MAW             | CHK:            | JAG    |
| APP:        |           |       |                 |                 |        |
| REV.        | CHK.      | BY:   |                 |                 |        |
| DESCRIPTION |           | DATE  |                 | DRAWING NO.     |        |
|             |           |       |                 | 000001.620.0061 |        |

SECTION 16 ASSEMBLY

- 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. TOWER MEMBERS ARE IDENTICAL ON ALL (3) FACES (UNLESS NOTED OTHERWISE).
- 5) TOWER SECTION SHOULD BE ASSEMBLED ON A LEVEL SURFACE i.e., LEVELLED TIMBERS OR EQUAL.
- 6) ALL SPACERS ARE 2' x 2' x THICKNESS NOTED.
- 7) WHERE SUFFIX (') FOLLOWS BOLT DESCRIPTION AN ADDITIONAL FLAT WASHER IS REQUIRED.
- 8) WHERE SUFFIX (") FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 9/16"ø.
- 9) WHERE SUFFIX (') FOLLOWS SPACER DESCRIPTION THE HOLE SIZE IS 13/16"ø.
- 10) 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" BOTTOM LEG / 4" x 4" x 3/8" TOP LEG

## SPICE DETAIL #25

PART # 4.924.0001.025

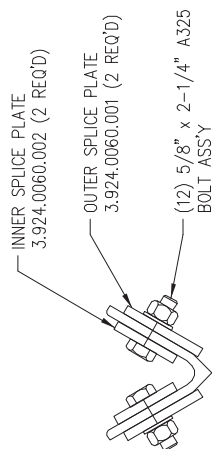
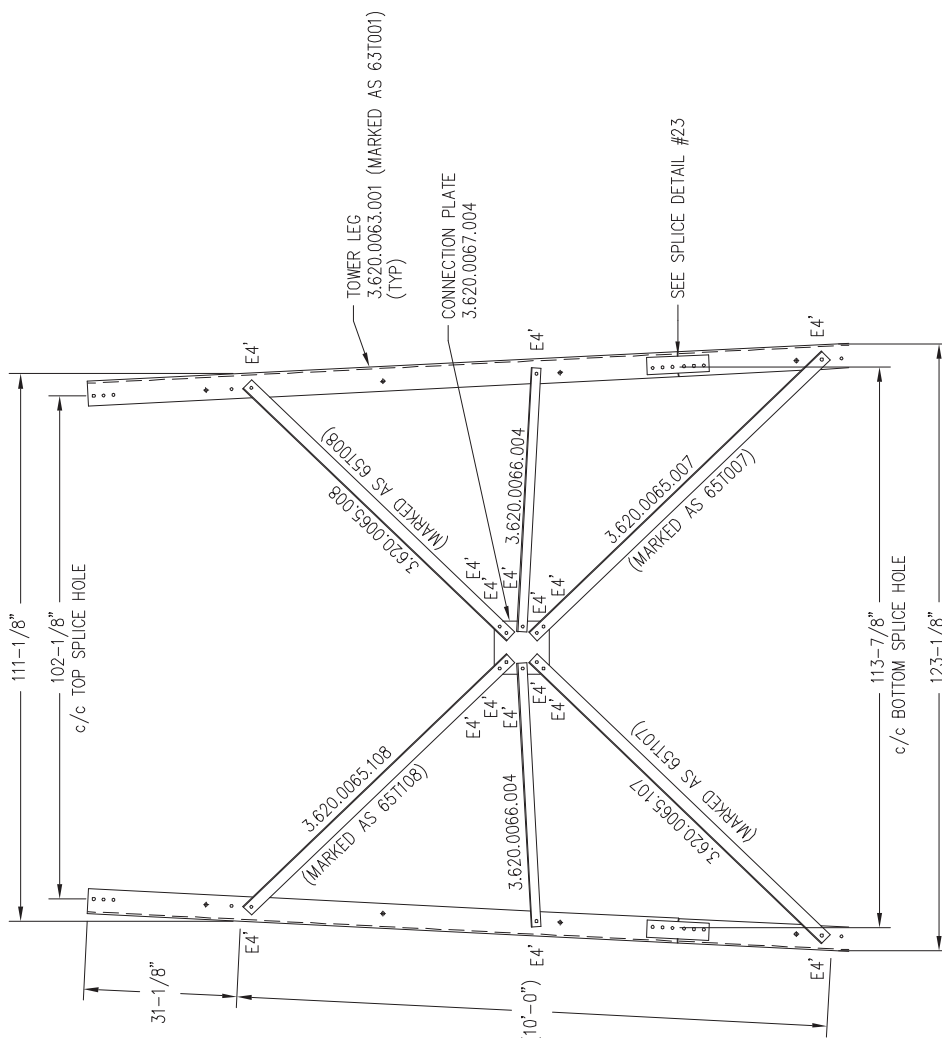
CONFIDENTIAL: ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

NOTES:

[illegible]

- (1) ALL TOWER BRACING AND LEG SPICE BOLTS SHALL BE A325 (UNLESS NOTED OTHERWISE).
- (2) ALL A325 FLAT 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) FLAT 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 SPACER 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  |



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

SPLICE DETAIL #23

PART # 4.924.0001.023

KNOCK-DOWN SECTION #18 - KIT #5.94.0181.000

[illegible]

NOTES:



CONFIDENTIAL: ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

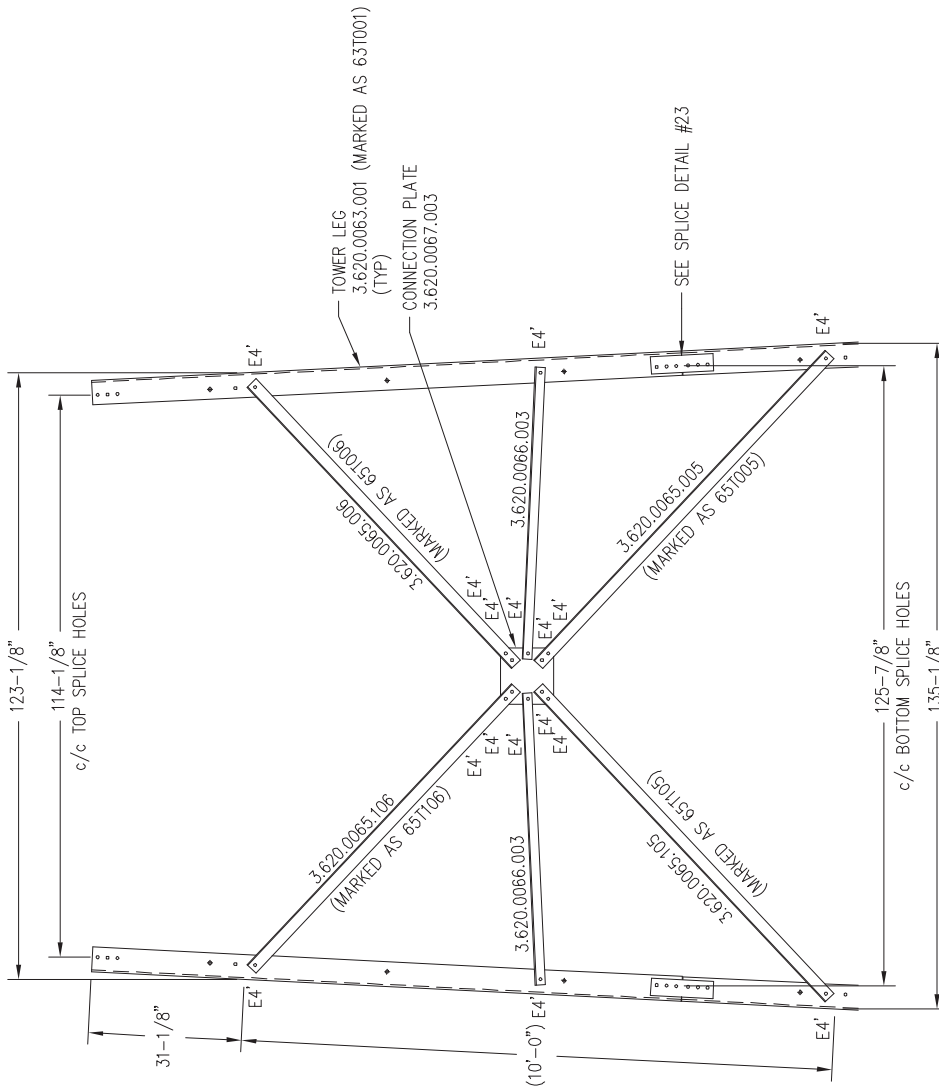


|                            |                       |      |                            |         |
|----------------------------|-----------------------|------|----------------------------|---------|
| CUSTOMER:                  | SITE: SUPERTITAN S.S. |      | SCALE:                     | 25.000  |
| DATE: 09 JUN 04            | BY: MAW               | CHK: | JAG                        | APP: JB |
| TITLE: SECTION 18 ASSEMBLY |                       |      | DRAWING NO. 000001620.0063 |         |

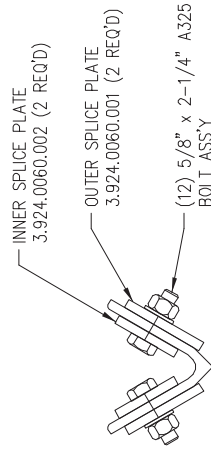
SECTION 18 ASSEMBLY

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 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 #19 - KIT #5.94.0191.000

CONFIDENTIAL: ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. NO REPRODUCTION, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.



NOTES:

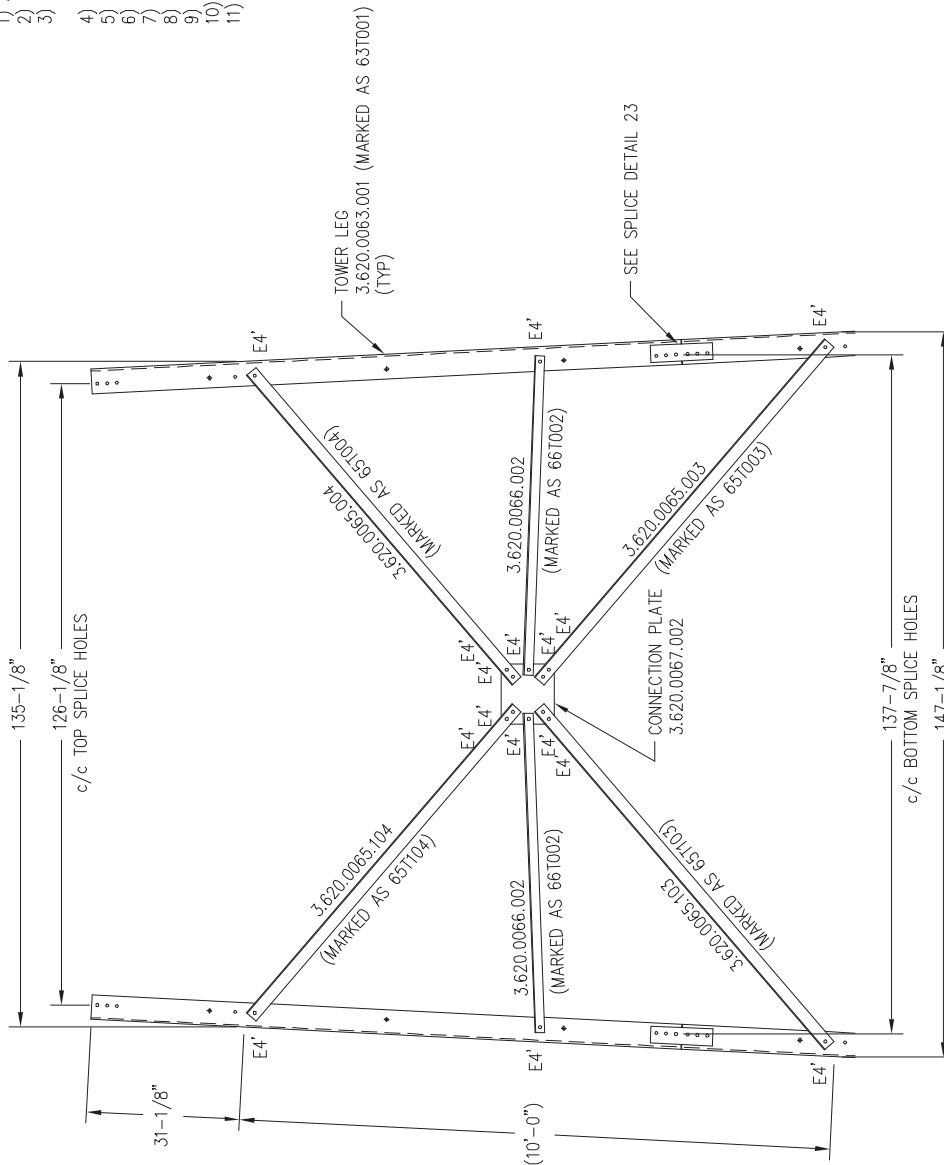


|           |                     |       |                |        |                             |
|-----------|---------------------|-------|----------------|--------|-----------------------------|
| CUSTOMER: |                     | SITE: | SUPERITAN S.S. | SCALE: | 25.000                      |
| DATE:     | 09 JUN 04           | BY:   | MAW            | CHK:   | JAG                         |
| TITLE:    | SECTION 19 ASSEMBLY |       |                |        | DRAWING NO. 000001.620.0064 |

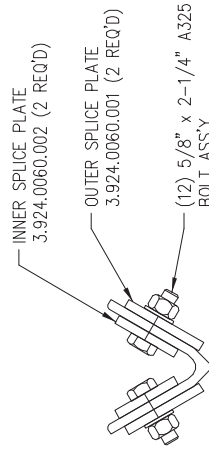
| REV. | CHK. | DATE |
|------|------|------|
|      |      |      |

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  |



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

SPLICE DETAIL #23

PART # 4.924.0001.023

KNOCK-DOWN SECTION #20 - KIT #5.94.0201.000

CONFIDENTIAL - ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON TSP. NO REPRODUCTION, DISSEMINATION, OR DISCLOSURE OF THIS INFORMATION IS PERMITTED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.



NOTES:



|           |                     |       |                |        |                             |
|-----------|---------------------|-------|----------------|--------|-----------------------------|
| CUSTOMER: |                     | SITE: | SUPERITAN S.S. | SCALE: | 25.000                      |
| DATE:     | 09 JUN 04           | BY:   | MAW            | CHK:   | JAG                         |
| TITLE:    | SECTION 20 ASSEMBLY |       |                |        | DRAWING NO. 000001.620.0065 |



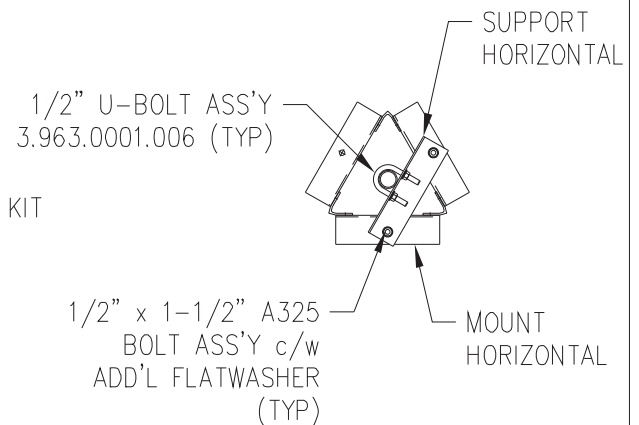
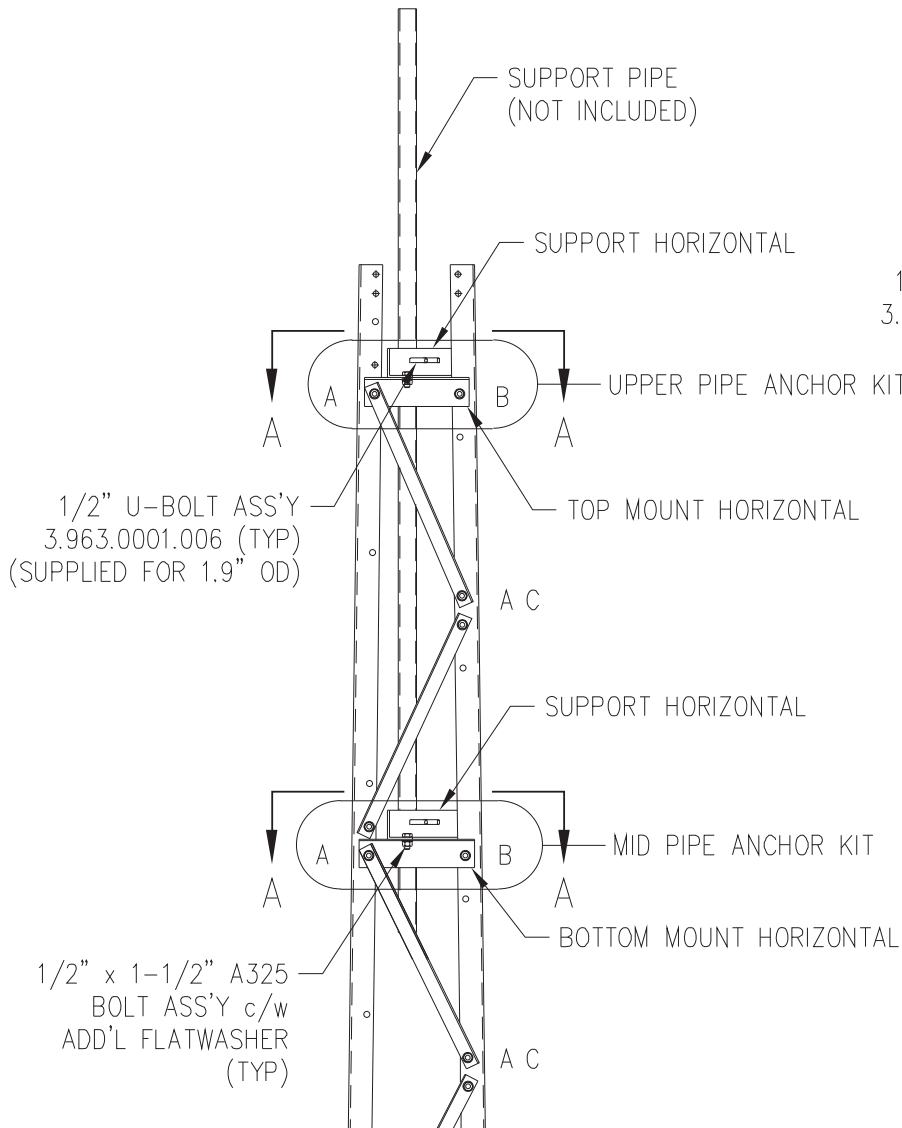


## BOLT SCHEDULE (SECT. 1 TO 5)

| MARK | SIZE                               | QTY |
|------|------------------------------------|-----|
| A    | 1/2" x 1-1/2" A325                 | 12  |
| B    | 1/2" x 1-1/2" A325 + FLATWASHER    | 6   |
| 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                 | 6   |
| C    | 3/16"x2"x2" SPACER c/w 9/16"Ø HOLE | 6   |



### SECTION A-A

#### NOTE:

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

- 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.

COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

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

#### NOTES:



|                          |         |            |                             |
|--------------------------|---------|------------|-----------------------------|
| CUSTOMER:                | SITE:   | SCALE:     | 20.000                      |
| DATE: 11 APR 03          | BY: MAW | CHOKE: BCP | APP: JB                     |
| TITLE: TOP MOUNT DETAILS |         |            | DRAWING NO. 000001.620.0031 |

## 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     |

NOTES:

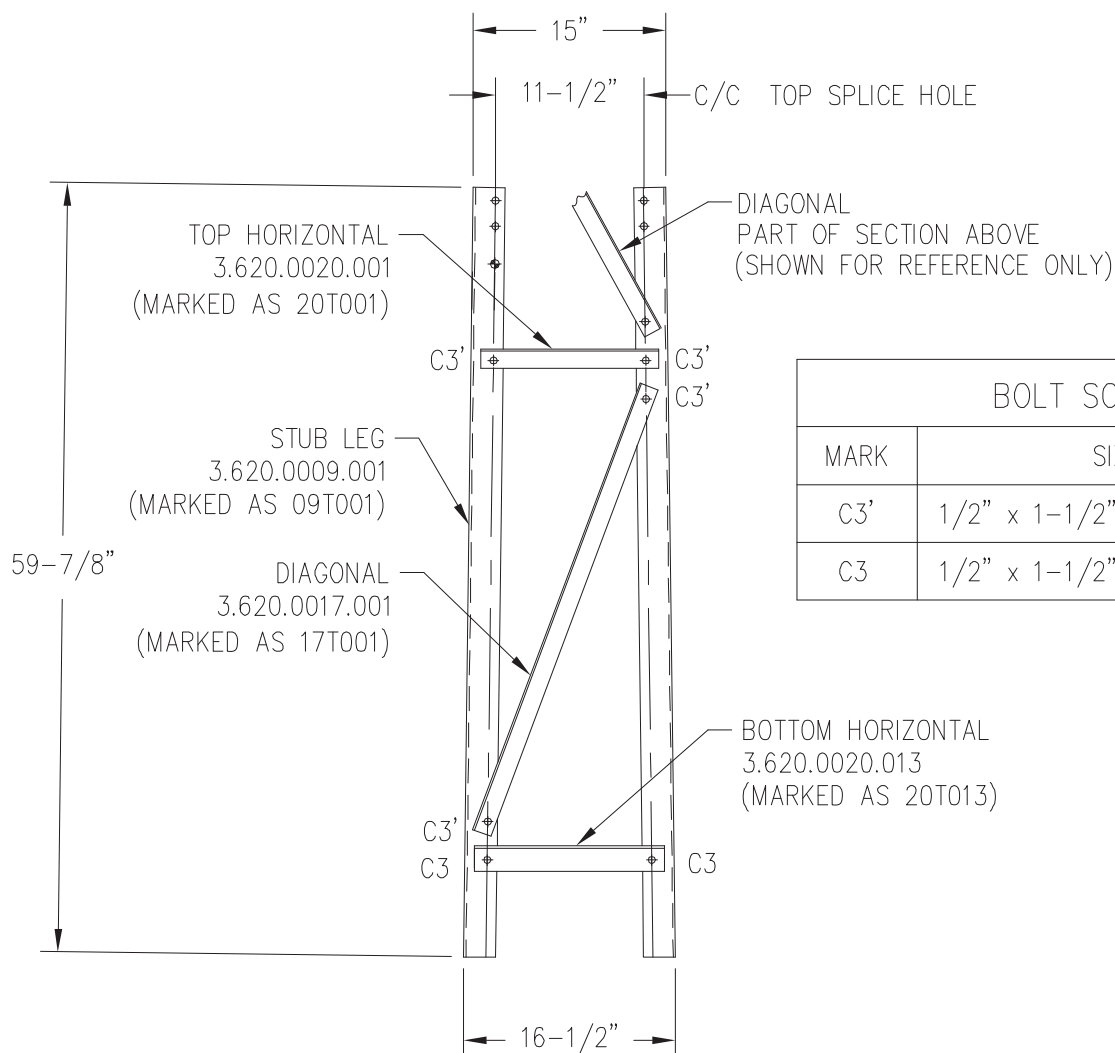
- 1) REFER TO DWG. 000001.620.0031 FOR INSTALLATION DETAILS.

COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

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



|                                     |         |                             |
|-------------------------------------|---------|-----------------------------|
| CUSTOMER:                           | SITE:   | SCALE: 1.000                |
| DATE: 23 APR 03                     | BY: MAW | CHK: BCP                    |
| TITLE: SUPERTITAN SS TOP MOUNT KITS |         | DRAWING NO. 000001.620.0032 |



| 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 #5.81.0202.000

COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

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

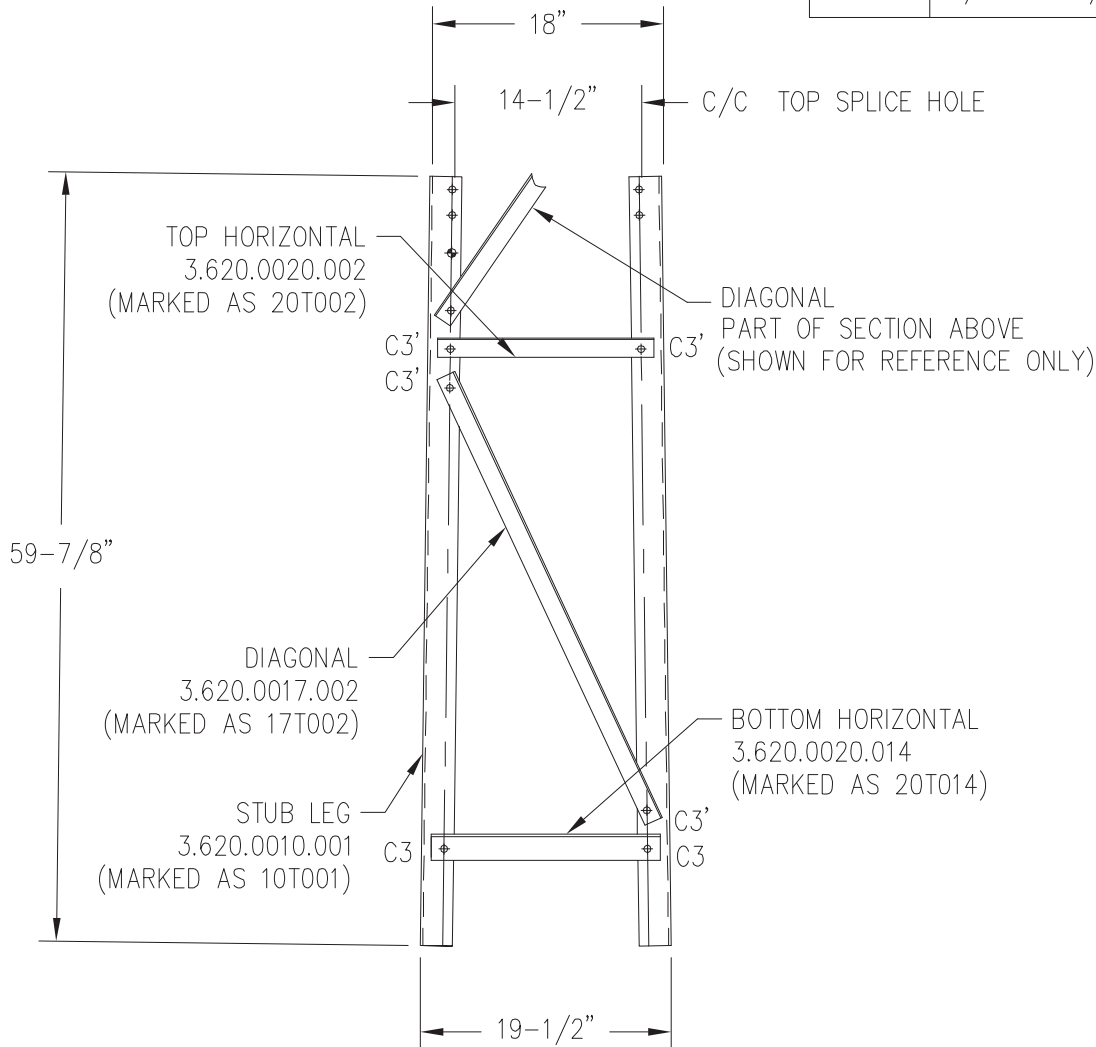
NOTES:



|                                   |         |                            |
|-----------------------------------|---------|----------------------------|
| CUSTOMER:                         | SITE:   | SCALE: 15.000              |
| DATE: 23 JAN 03                   | BY: AL  | CHK: MAW                   |
| TITLE: ASSEMBLY OF FND SECTION 2F | APP: JB | DRAWING NO. 000001.620.014 |

# 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

COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

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

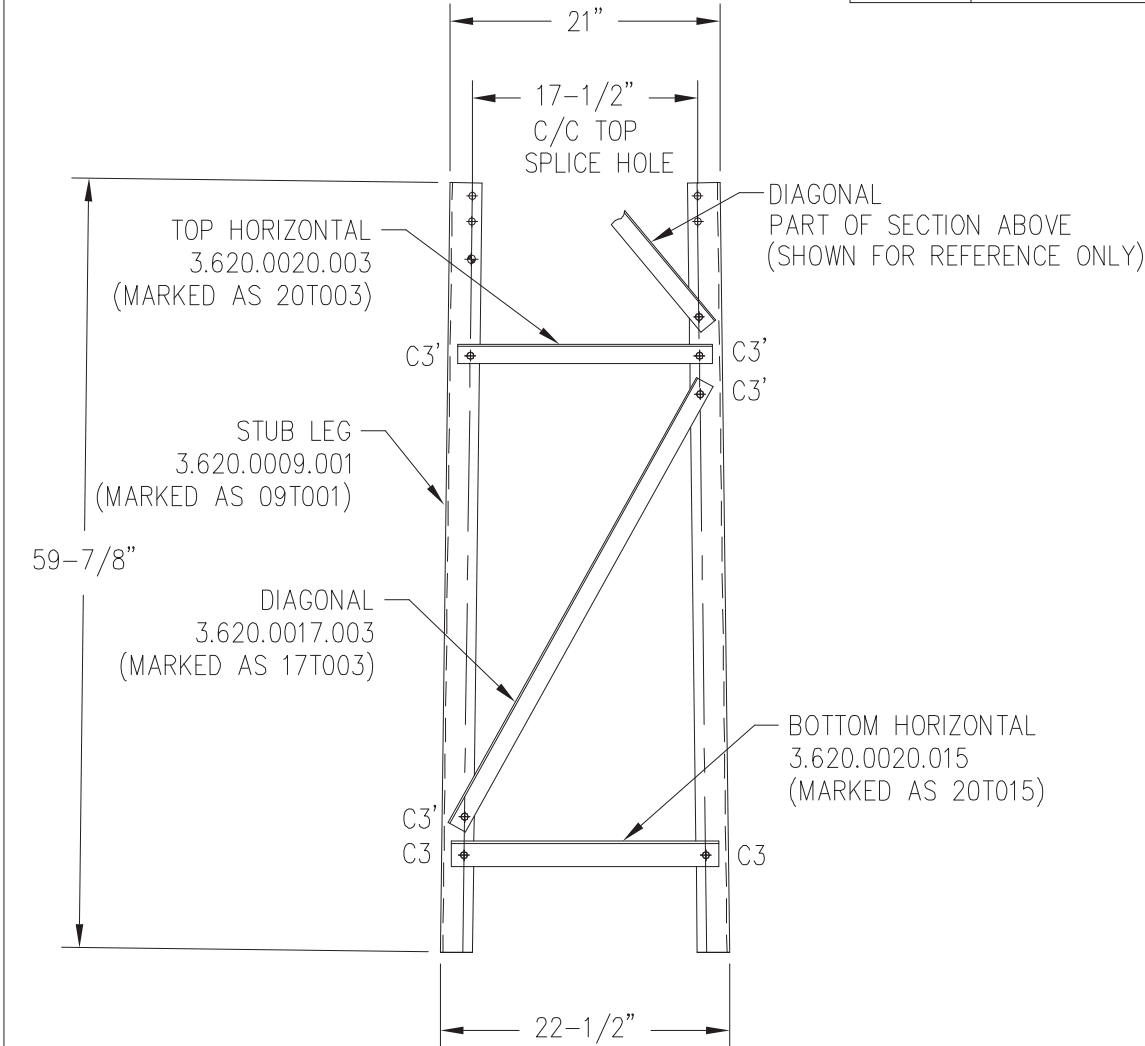
NOTES:



|                                   |        |               |
|-----------------------------------|--------|---------------|
| CUSTOMER:                         | SITE:  | SCALE: 15.000 |
| DATE: 23 JAN 03                   | BY: AL | CHK: MAW      |
| TITLE: ASSEMBLY OF FND SECTION 3F |        | APP: JB       |
| DRAWING NO. 000001.620.015        |        |               |



| 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   |



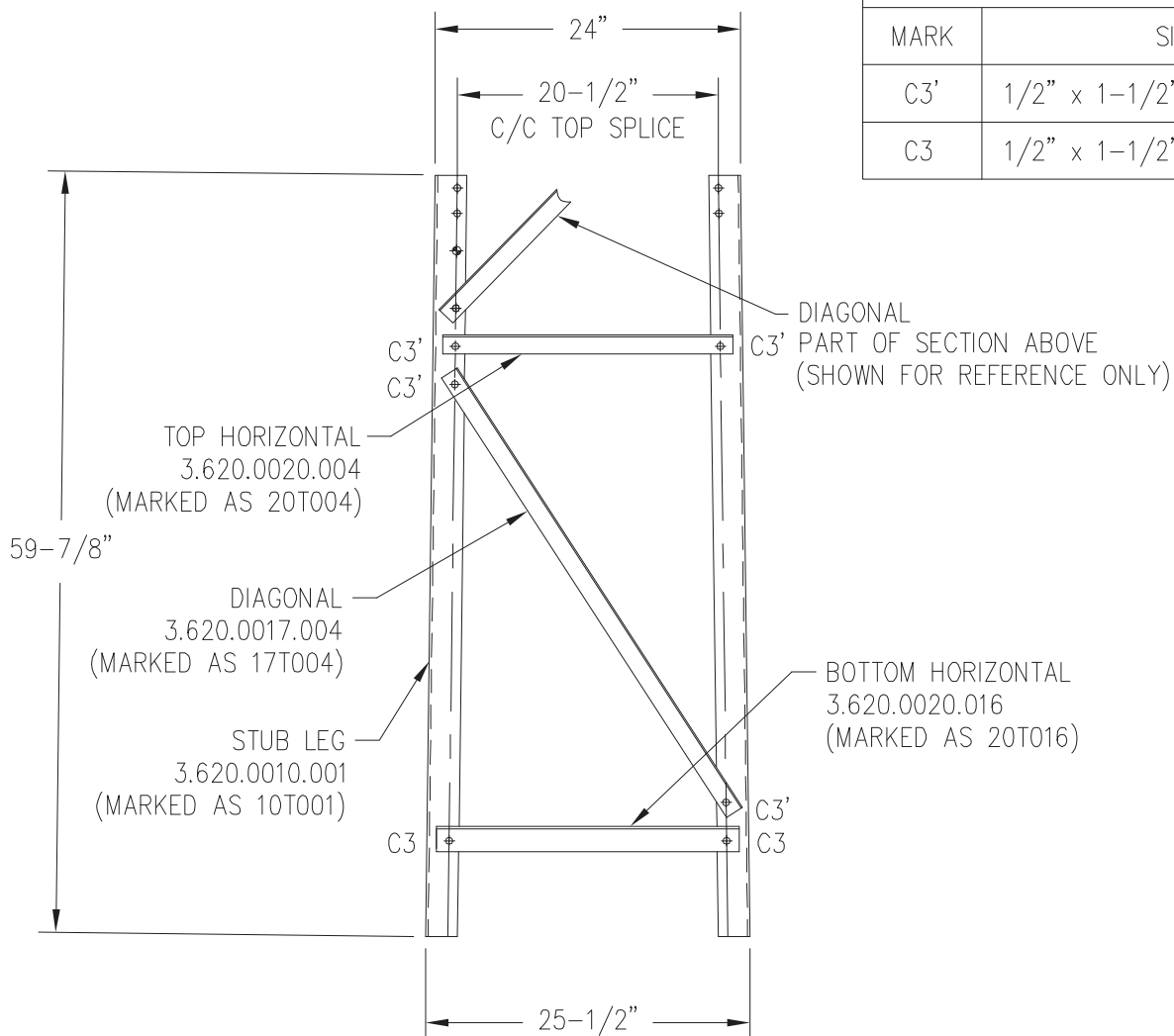
KNOCK-DOWN SECTION #4F – KIT #5.81.0204.000

COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

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

NOTES:

|                                   |        |                            |
|-----------------------------------|--------|----------------------------|
| CUSTOMER:                         | SITE:  | SCALE: 15.000              |
| DATE: 23 JAN 03                   | BY: AL | CHK: MAW APP: JB           |
| TITLE: ASSEMBLY OF FND SECTION 4F |        | DRAWING NO. 000001.620.016 |



| 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

COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

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

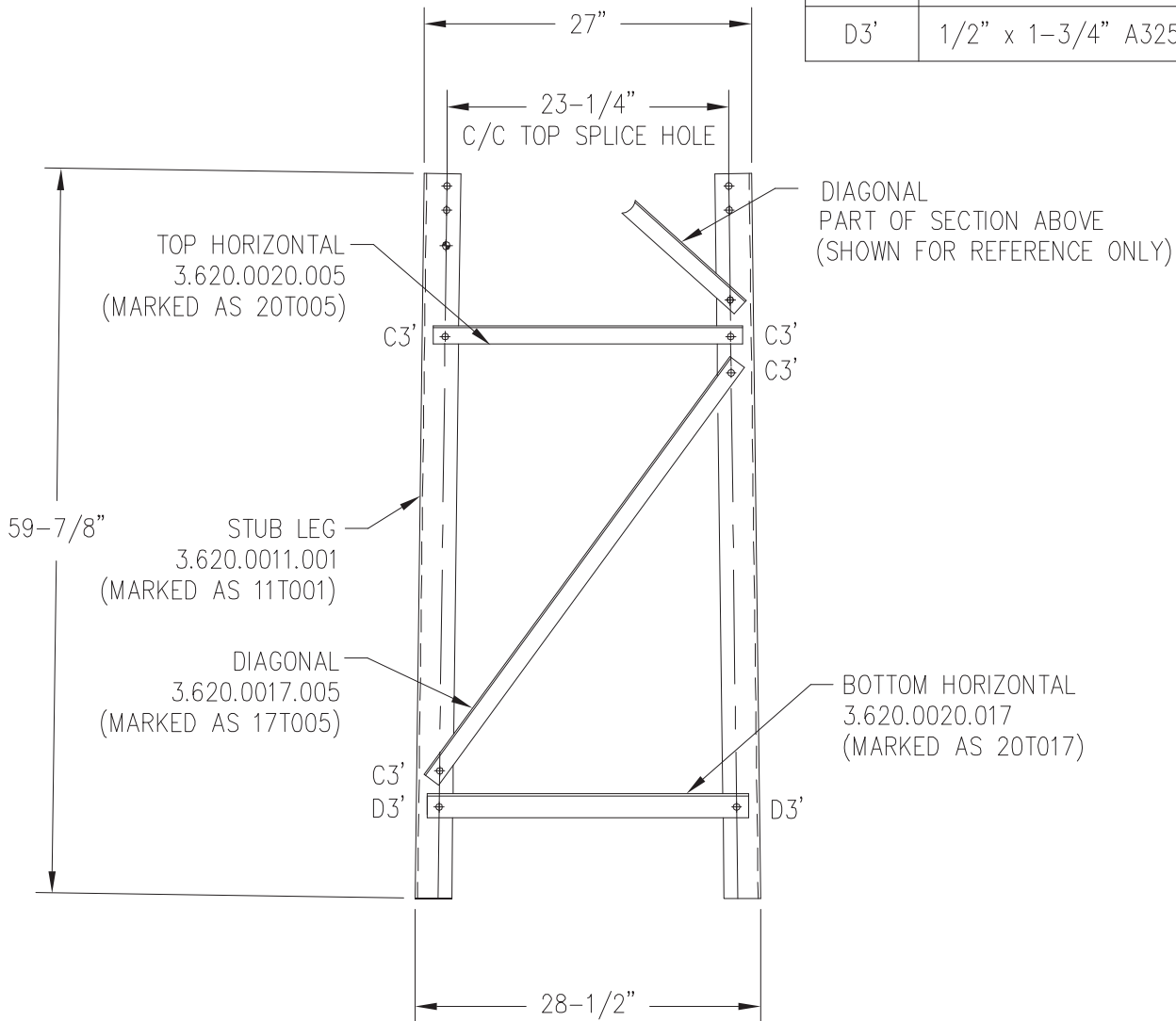
NOTES:



|                                      |                               |             |            |
|--------------------------------------|-------------------------------|-------------|------------|
| CUSTOMER:                            | SITE:                         | SCALE:      | 15.000     |
| DATE:<br>23 JAN 03                   | BY:<br>AL                     | CHK:<br>MAW | APP:<br>JB |
| TITLE:<br>ASSEMBLY OF FND SECTION 5F | DRAWING NO.<br>000001.620.017 |             |            |

# 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

COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

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

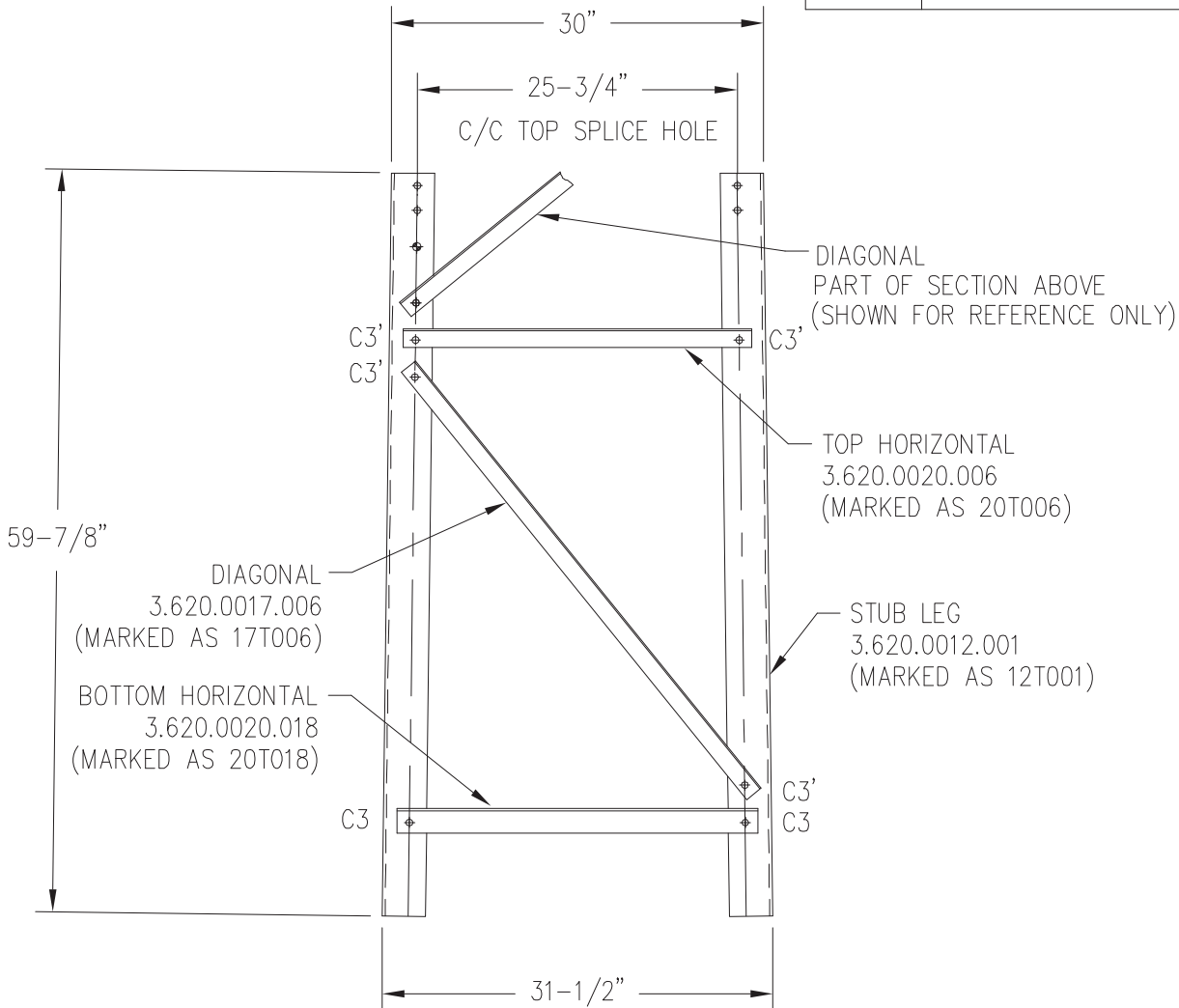
NOTES:



|                                   |        |          |                             |
|-----------------------------------|--------|----------|-----------------------------|
| CUSTOMER:                         | SITE:  | SCALE:   | 15.000                      |
| DATE: 23 JAN 03                   | BY: AL | CHK: MAW | APP: JB                     |
| TITLE: ASSEMBLY OF FND SECTION 6F |        |          | DRAWING NO. 000001.620.0018 |

# 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

COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

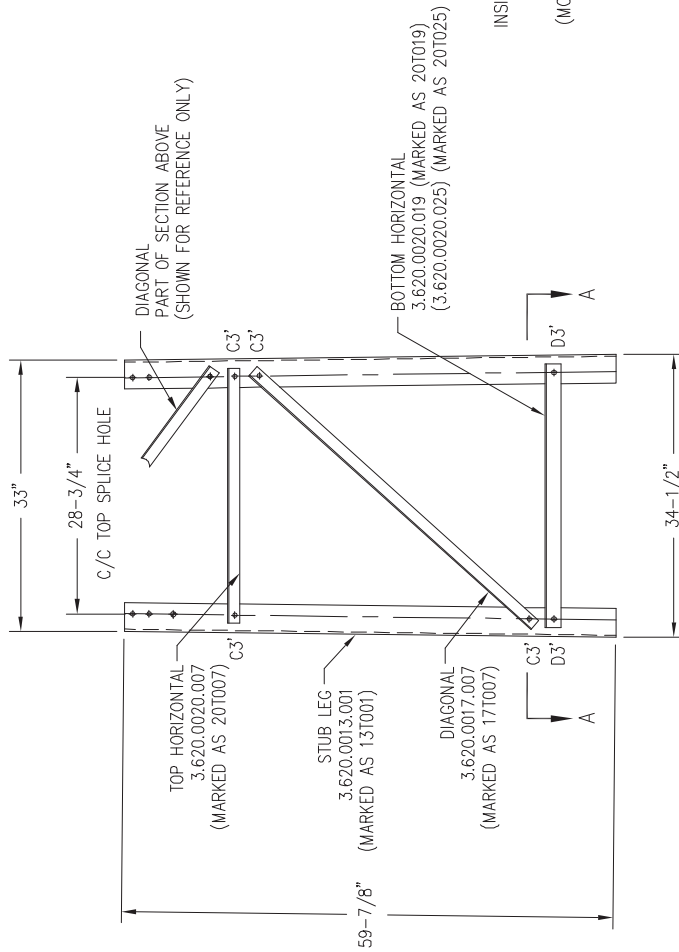
| REV. | REV. BY: | CHK. BY: | DESCRIPTION | DATE |
|------|----------|----------|-------------|------|
|      |          |          |             |      |

NOTES:

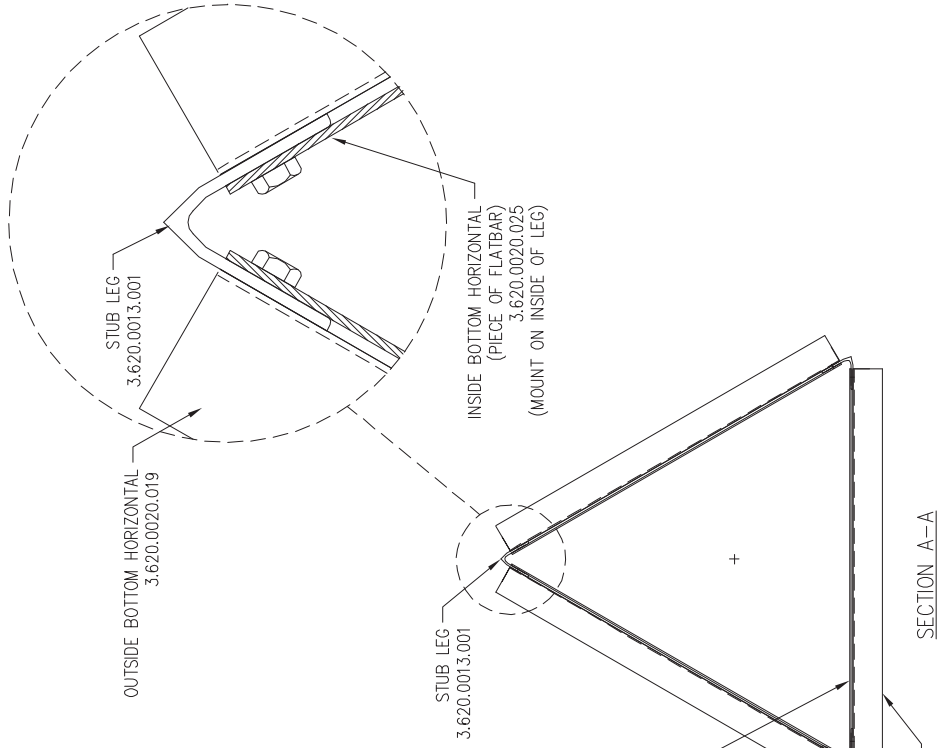


|                                   |         |                            |
|-----------------------------------|---------|----------------------------|
| CUSTOMER:                         | SITE:   | SCALE: 15.000              |
| DATE: 23 JAN 03                   | BY: AL  | CHK: MAW                   |
| TITLE: ASSEMBLY OF FND SECTION 7F | APP: JB | DRAWING NO. 000001.620.019 |

| 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:



COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.



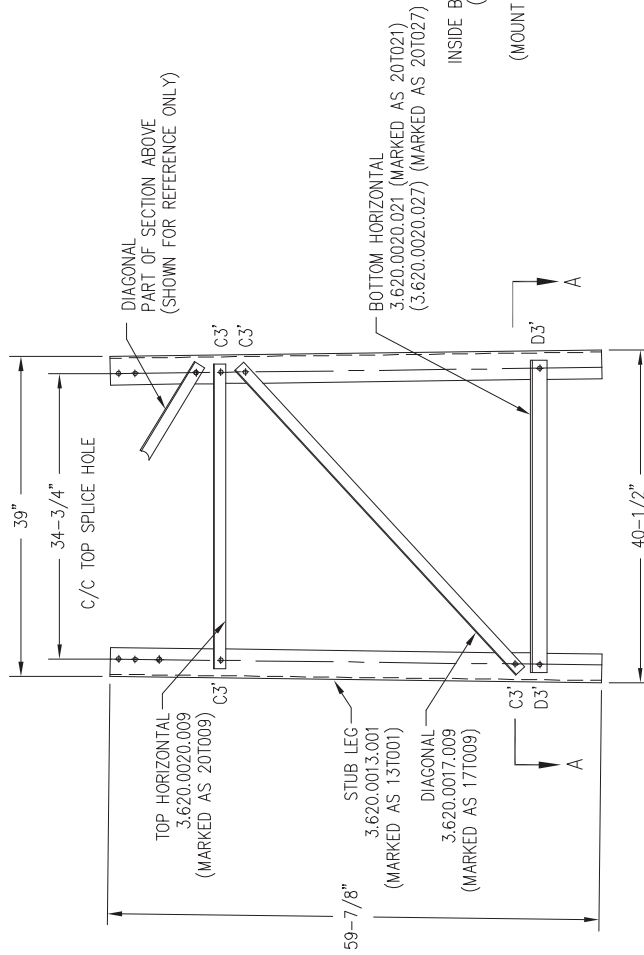
|                                   |                             |          |         |
|-----------------------------------|-----------------------------|----------|---------|
| CUSTOMER:                         | SITE:                       | SCALE:   | 15.000  |
| DATE: 23 JAN 03                   | BY: AL                      | CHK: MAW | APP: JB |
| TITLE: ASSEMBLY OF FND SECTION 8F | DRAWING NO. 000001.620.0020 |          |         |

| REV. | CHK. BY: | DESCRIPTION                    | DATE      |
|------|----------|--------------------------------|-----------|
| A    | MRH      | TLD                            | 24 JAN 06 |
|      |          | ADDED SECTION A-A AND CLOSE-UP |           |

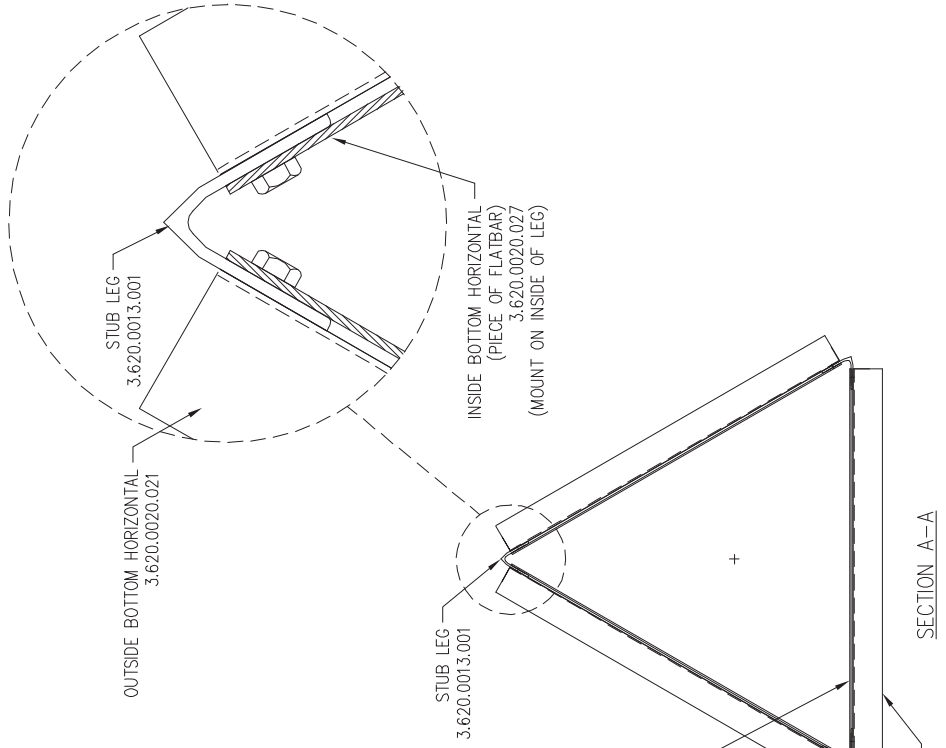




| BOLT SCHEDULE |                          |     |
|---------------|--------------------------|-----|
| MARK          | SIZE                     | QTY |
| C3'           | 1/2" x 1-1/2" A325 + F/W | 12  |
| D3'           | 1/2" x 1-3/4" A325 + F/W | 6   |



KNOCK-DOWN SECTION #10F - KIT #5.81.0210.000



NOTES:



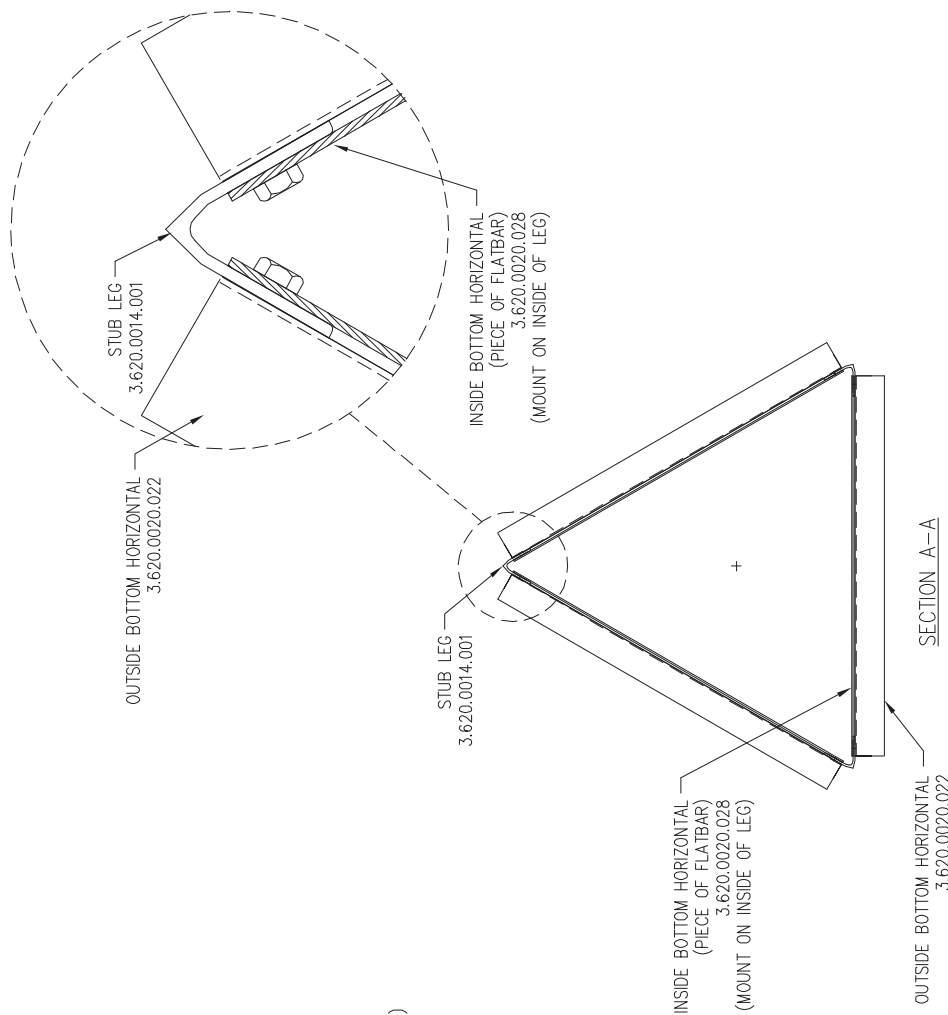
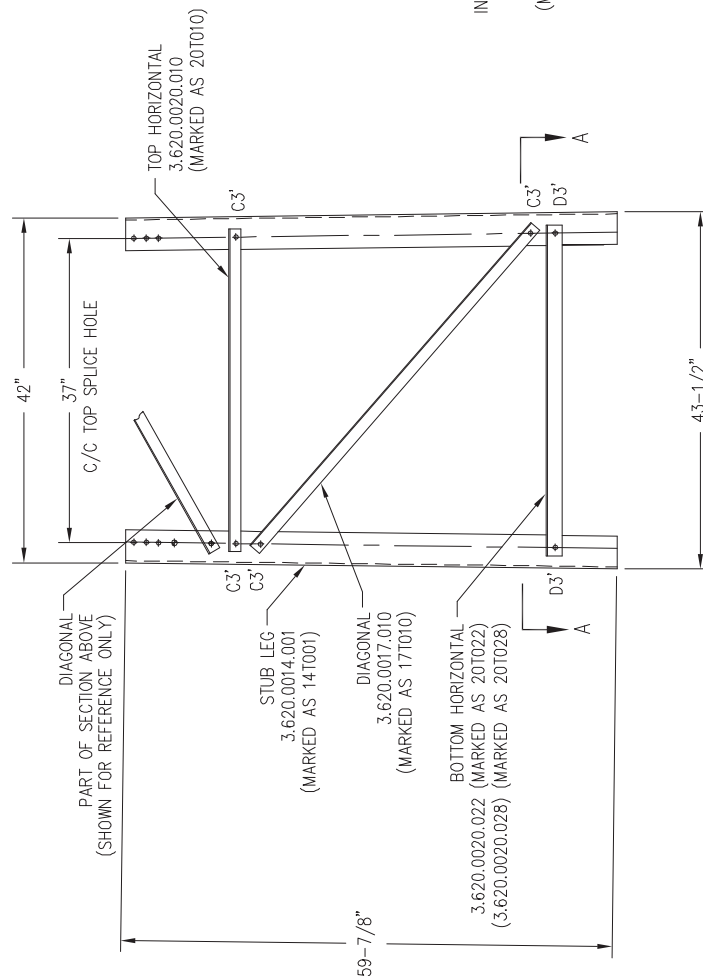
COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.



|                                    |                             |          |         |
|------------------------------------|-----------------------------|----------|---------|
| CUSTOMER:                          | SITE:                       | SCALE:   | 15.000  |
| DATE: 23 JAN 03                    | BY: AL                      | CHK: MAW | APP: JB |
| TITLE: ASSEMBLY OF FND SECTION 10F | DRAWING NO. 000001.620.0022 |          |         |

| REV. | REV. BY: | CHK. BY: | TLD | DESCRIPTION                    | DATE      |
|------|----------|----------|-----|--------------------------------|-----------|
| A    | MRH      |          |     | ADDED SECTION A-A AND CLOSE-UP | 24 JAN 06 |

| 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

COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD.  
ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT  
WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.



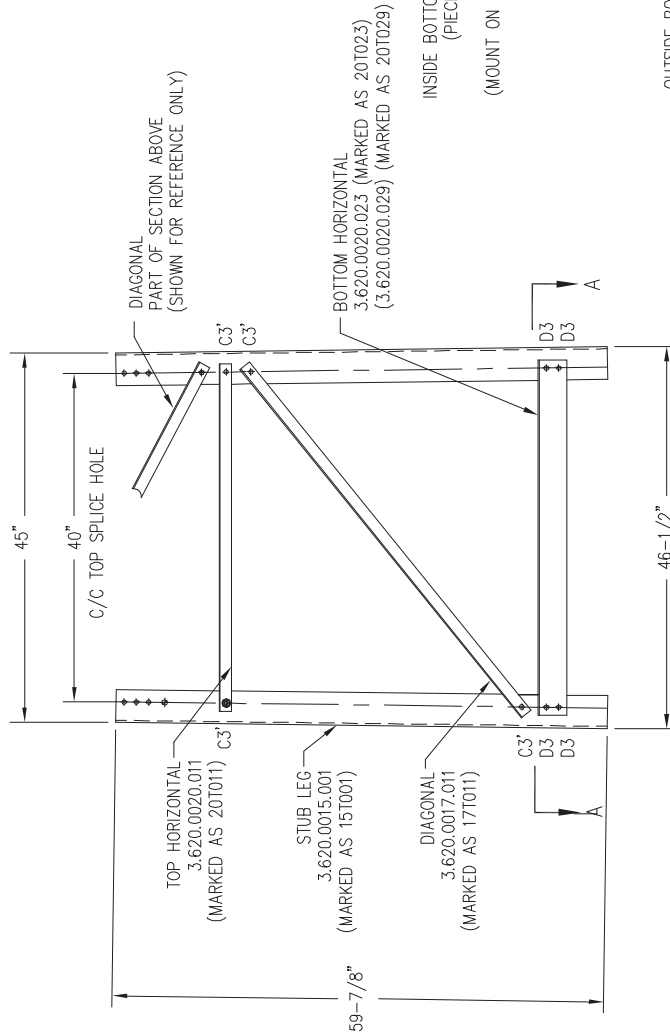
NOTES:



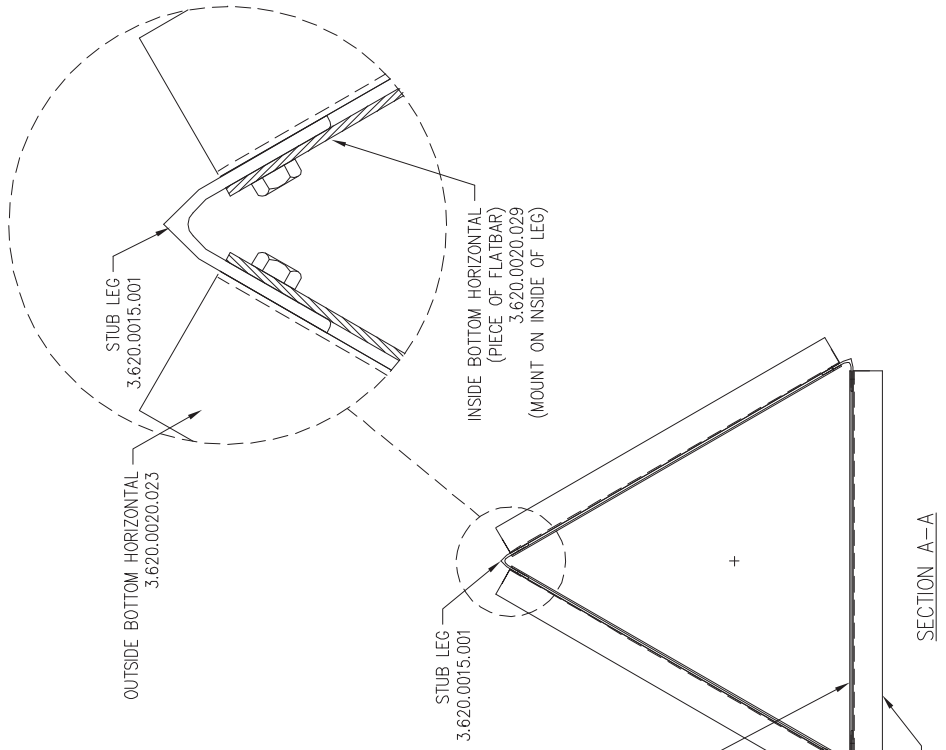
|                             |        |                 |         |
|-----------------------------|--------|-----------------|---------|
| CUSTOMER:                   | SITE:  | SCALE:          | 15,000  |
| DATE: 23 JAN 03             | BY: AL | CHK: MAW        | APP: JB |
| TITLE:                      |        | DRAWING NO.     |         |
| ASSEMBLY OF FND SECTION 11F |        | 000001.620.0023 |         |

| REV. | REV. BY: | CHK. BY: | DESCRIPTION | DATE | FILE                        | DRAWING NO.     |
|------|----------|----------|-------------|------|-----------------------------|-----------------|
|      |          |          |             |      | ASSEMBLY OF FND SECTION 11F | 000001.620.0023 |

| 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:

COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.



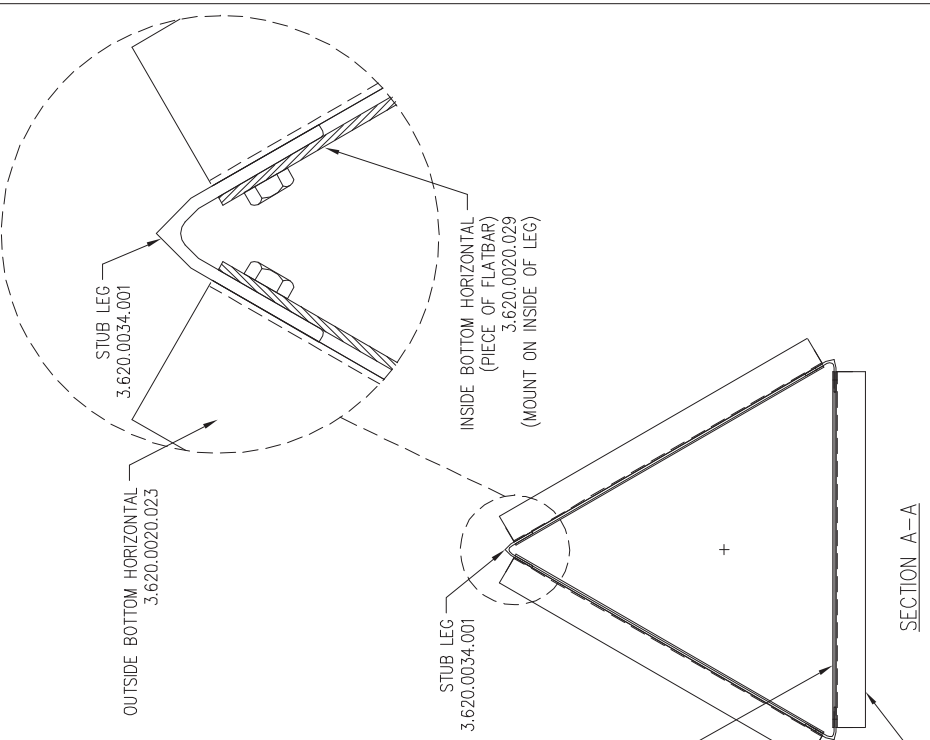
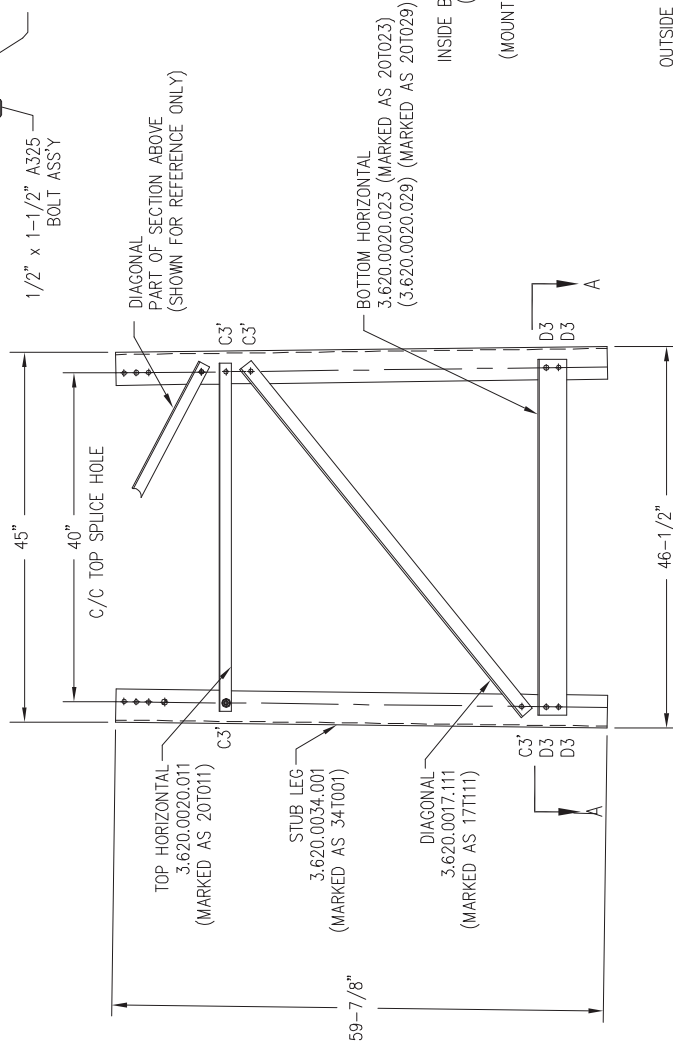
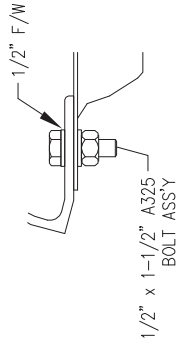
|                                    |                             |          |         |
|------------------------------------|-----------------------------|----------|---------|
| CUSTOMER:                          | SITE:                       | SCALE:   | 15,000  |
| DATE: 23 JAN 03                    | BY: AL                      | CHK: MAW | APP: JB |
| TITLE: ASSEMBLY OF FND SECTION 12F | DRAWING NO. 000001.620.0024 |          |         |

| REV. | CHK. BY: | DESCRIPTION                        | DATE      |
|------|----------|------------------------------------|-----------|
| A    | MRH      | TLD ADDED SECTION A-A AND CLOSE-UP | 24 JAN 06 |

# ASSEMBLY OF FOUNDATION 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  |

## TOWER MEMBER CONN.



## SECTION A-A

KNOCK-DOWN SECTION #12FHD - KIT #5.81.0212.0HD

CONFIDENTIAL: ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON MANUFACTURING LTD. ALL DESIGN, REVISION, DISCLOSURE OR REPRODUCTION OF THIS DOCUMENT WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

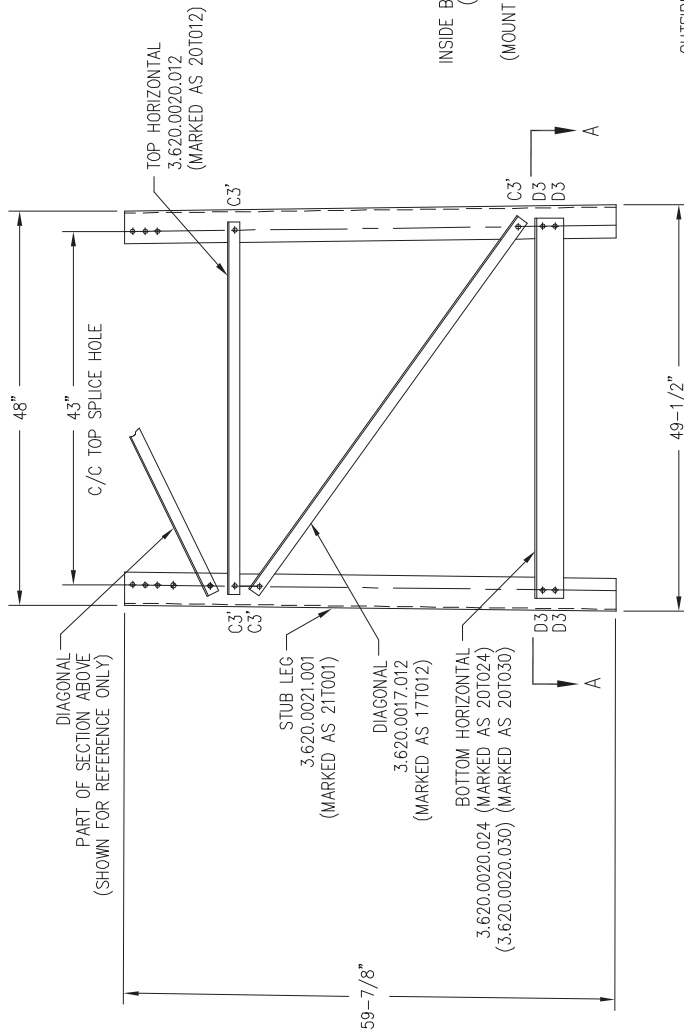
CUSTOMER: \_\_\_\_\_ SITE: \_\_\_\_\_ SCALE: 15,000  
 DATE: 01 JUN 05 BY: MRH CHK: JAG APP: JB  
 TITLE: ASSY OF FND SECTION 12FHD DRAWING NO. 1,620.0028

| REV. | REV. BY: | CHK. BY: | DESCRIPTION             | DATE     |
|------|----------|----------|-------------------------|----------|
| A    | MRH      | JAG      | ISSUED FOR CONSTRUCTION | 1 JUN 05 |

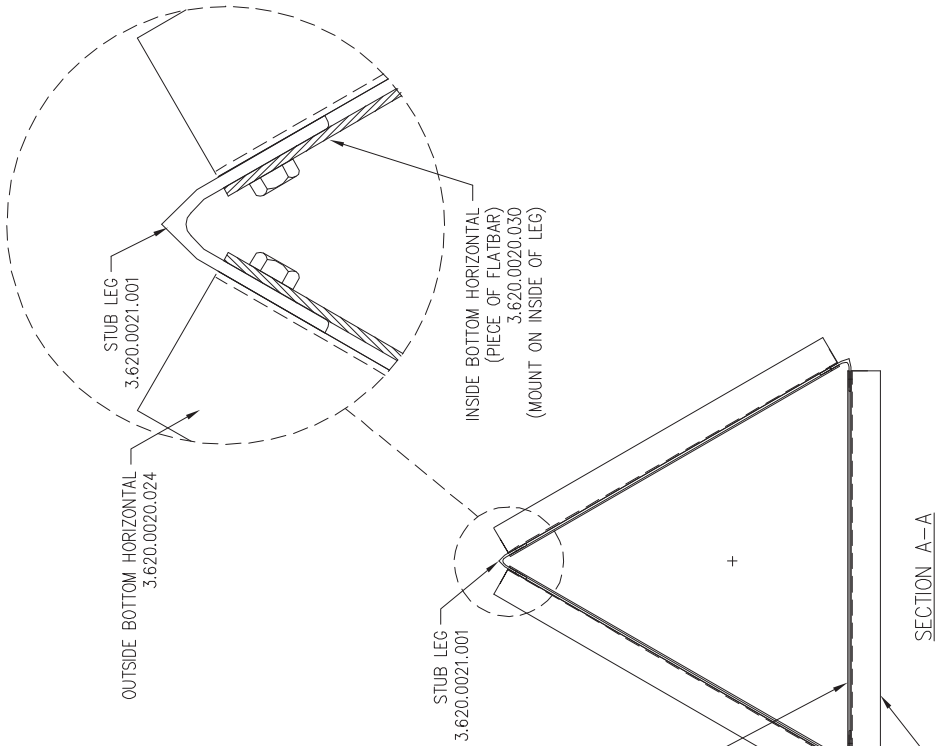
NOTES:



| 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



NOTES:



COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.



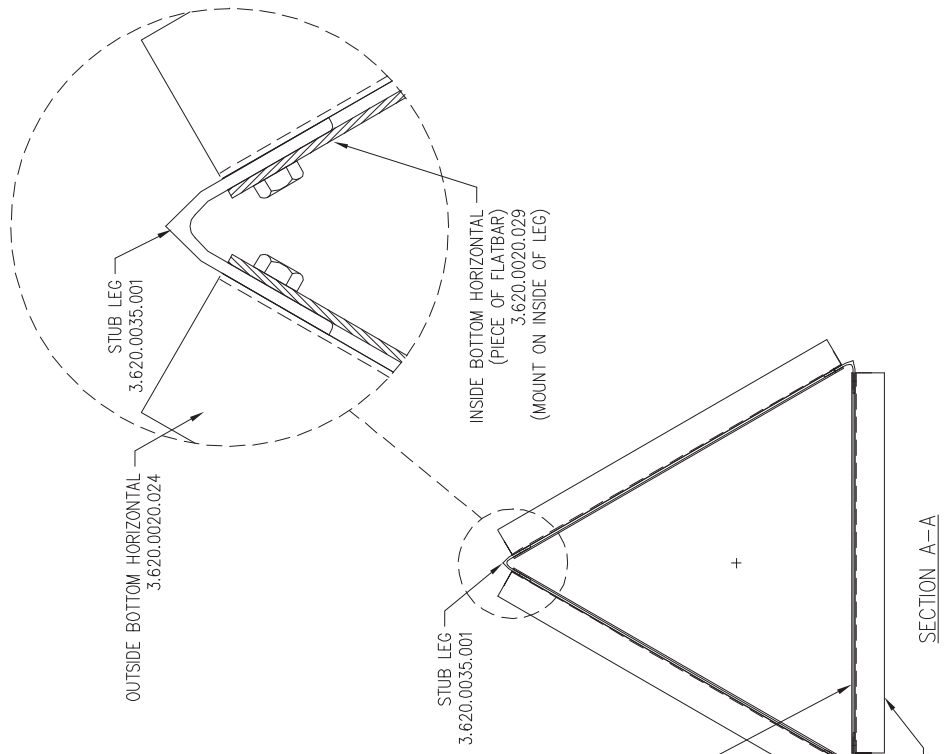
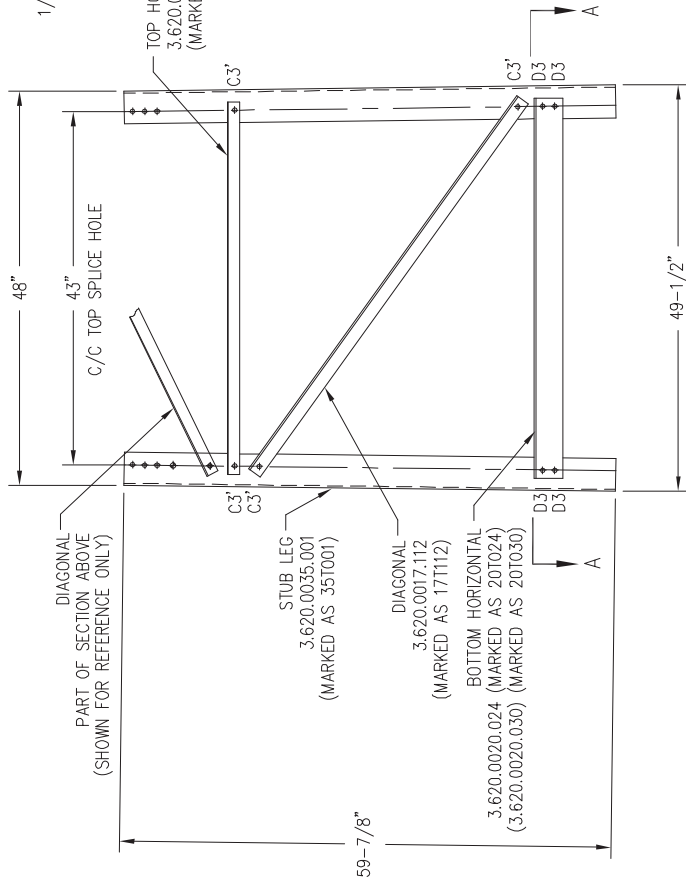
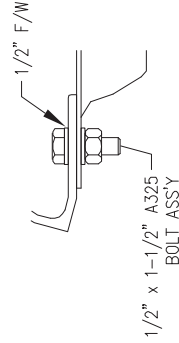
|                                    |                             |          |         |
|------------------------------------|-----------------------------|----------|---------|
| CUSTOMER:                          | SITE:                       | SCALE:   | 15.000  |
| DATE: 23 JAN 03                    | BY: AL                      | CHK: MAW | APP: JB |
| TITLE: ASSEMBLY OF FND SECTION 13F | DRAWING NO. 000001.620.0025 |          |         |

| REV.                           | CHK. BY: | DESCRIPTION | DATE      |
|--------------------------------|----------|-------------|-----------|
| A                              | MRH      | TLD         | 24 JAN 06 |
| ADDED SECTION A-A AND CLOSE-UP |          |             |           |

# ASSEMBLY OF FOUNDATION SECTION 13FHD

| 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  |

## TOWER MEMBER CONN.



## SECTION A-A

KNOCK-DOWN SECTION #13FHD - KIT #5.81.0213.0HD

CONFIDENTIAL: ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL INFORMATION, INCLUDING DISCLOSURE OF USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.



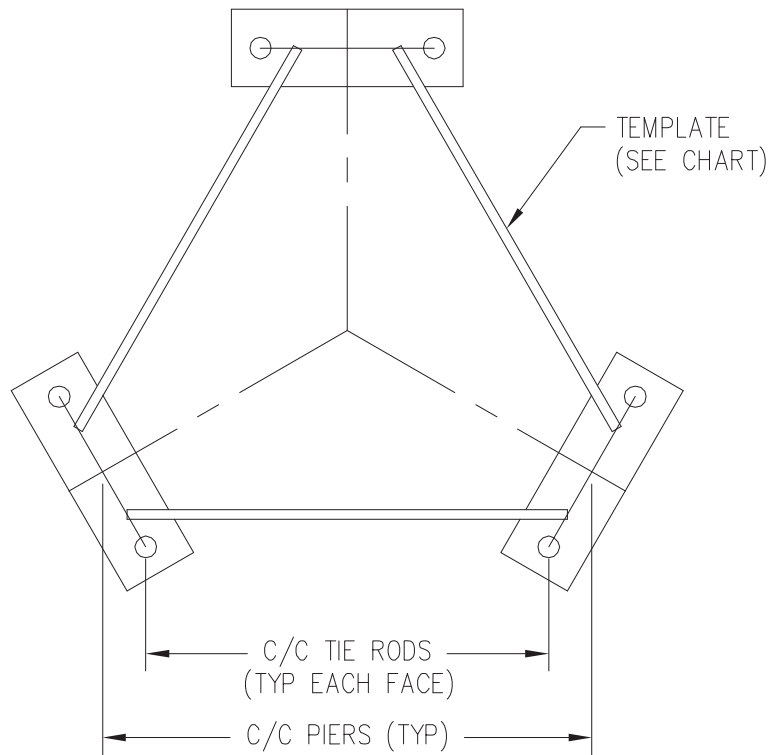
TRYLON TSF

CUSTOMER: SITE: SCALE: 15,000

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

TITLE: ASSY OF FND SECTION 13FHD DRAWING NO. 1.620..0029

| REV. | CHK. BY: | DESCRIPTION             | DATE     |
|------|----------|-------------------------|----------|
| A    | MRH JAG  | ISSUED FOR CONSTRUCTION | 1 JUN 05 |



| 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"     |

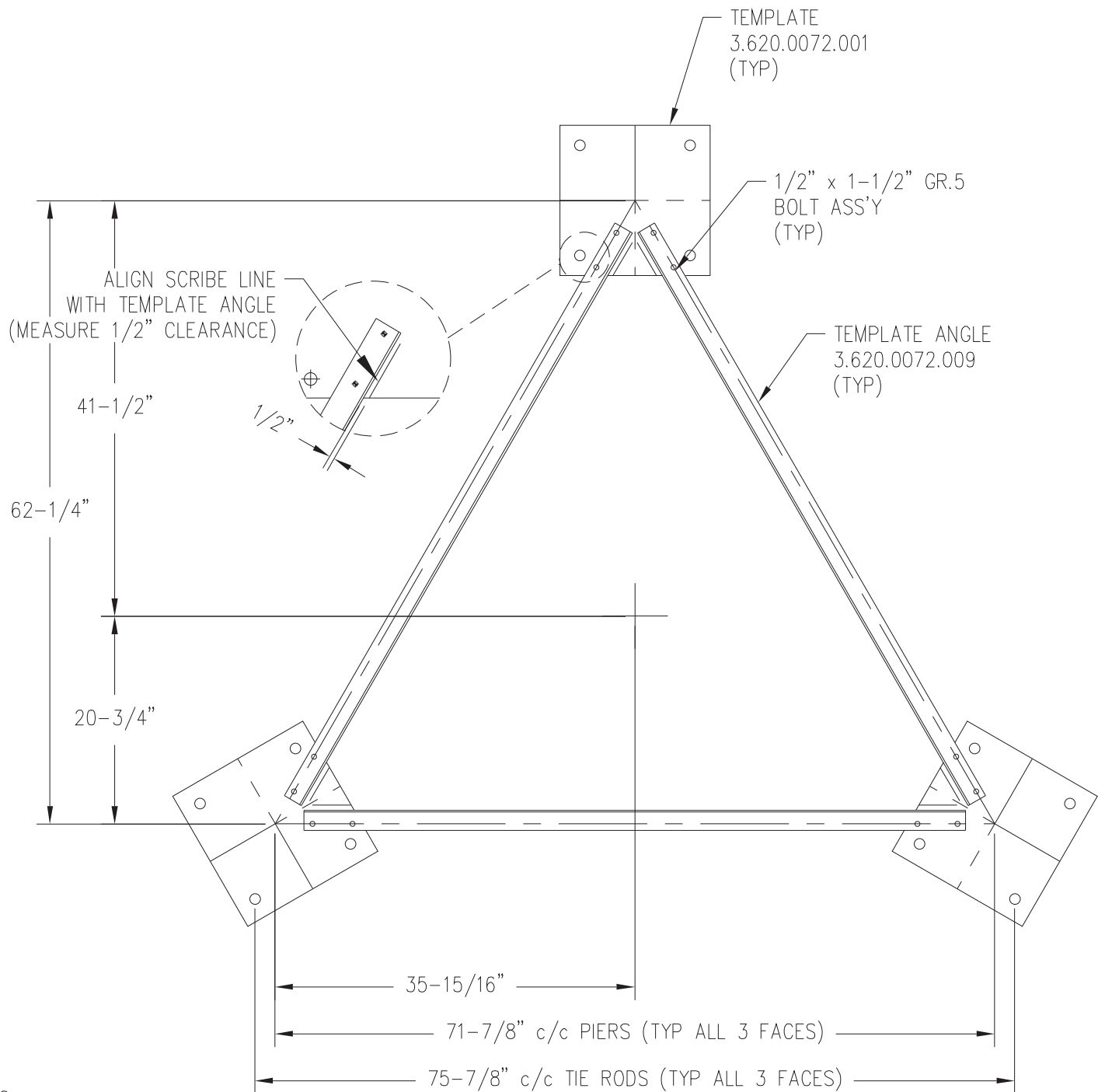
COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

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

NOTES:



|                                    |                    |                  |
|------------------------------------|--------------------|------------------|
| CUSTOMER:<br>TIE RODS ONLY         | SITE:<br>BASE FOOT | SCALE:<br>10.000 |
| DATE:<br>21 OCT 03                 | BY:<br>MAW         | CHK:<br>MS       |
| TITLE:<br>BASE FEET TEMP. #2-#12HD |                    | APP:<br>BZ       |
| DRAWING NO.<br>000001.620.0054     |                    |                  |



NOTES:

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

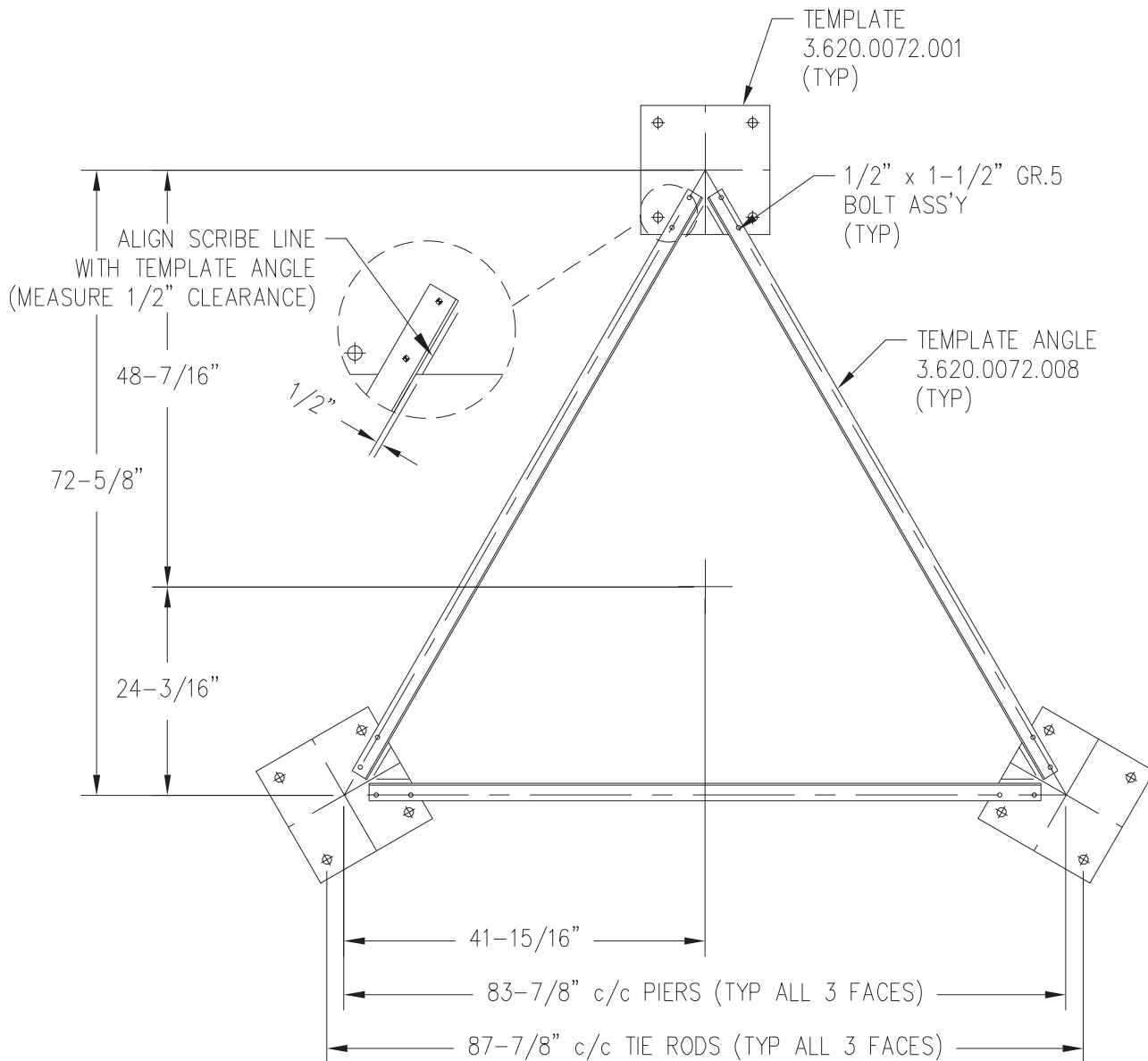
KIT #4.79.0000.515

CONFIDENTIAL:  
ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF  
TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION,  
RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN  
CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

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



|                               |                                |             |            |
|-------------------------------|--------------------------------|-------------|------------|
| CUSTOMER:                     | SITE:                          | SCALE:      | 15.000     |
| DATE:<br>12 NOV 04            | BY:<br>MAW                     | CHK:<br>JAG | APP:<br>JB |
| TITLE:<br>SECTION 14 TEMPLATE | DRAWING NO.<br>000001.620.0102 |             |            |



NOTES:

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

KIT #4.79.0000.516

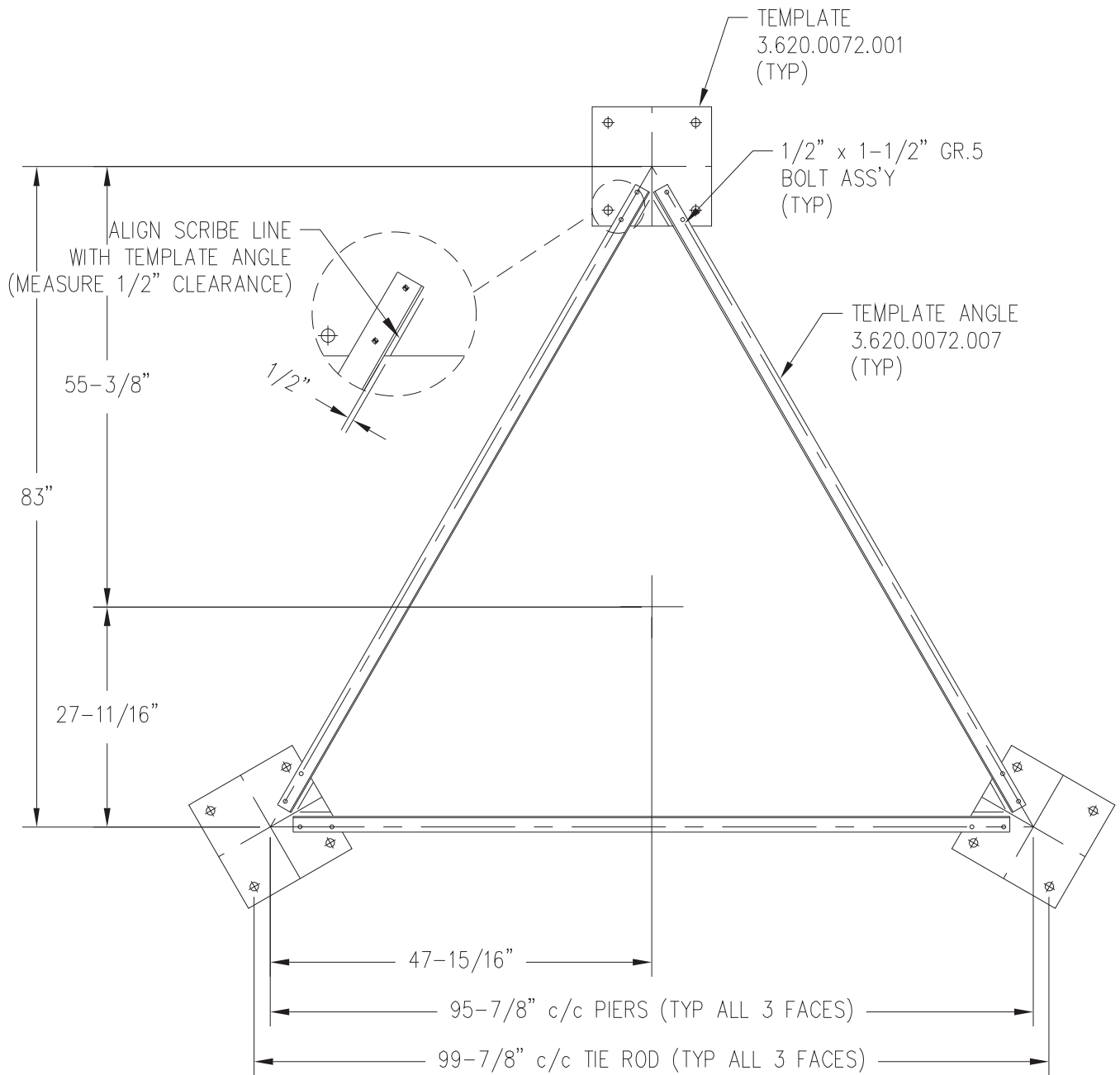
CONFIDENTIAL:  
ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF  
TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION,  
RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN  
CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

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



|                               |            |             |                                |
|-------------------------------|------------|-------------|--------------------------------|
| CUSTOMER:                     | SITE:      | SCALE:      | 20.000                         |
| DATE:<br>12 NOV 04            | BY:<br>MAW | CHK:<br>JAG | APP:<br>JB                     |
| TITLE:<br>SECTION 15 TEMPLATE |            |             | DRAWING NO.<br>000001.620.0103 |





NOTES:

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

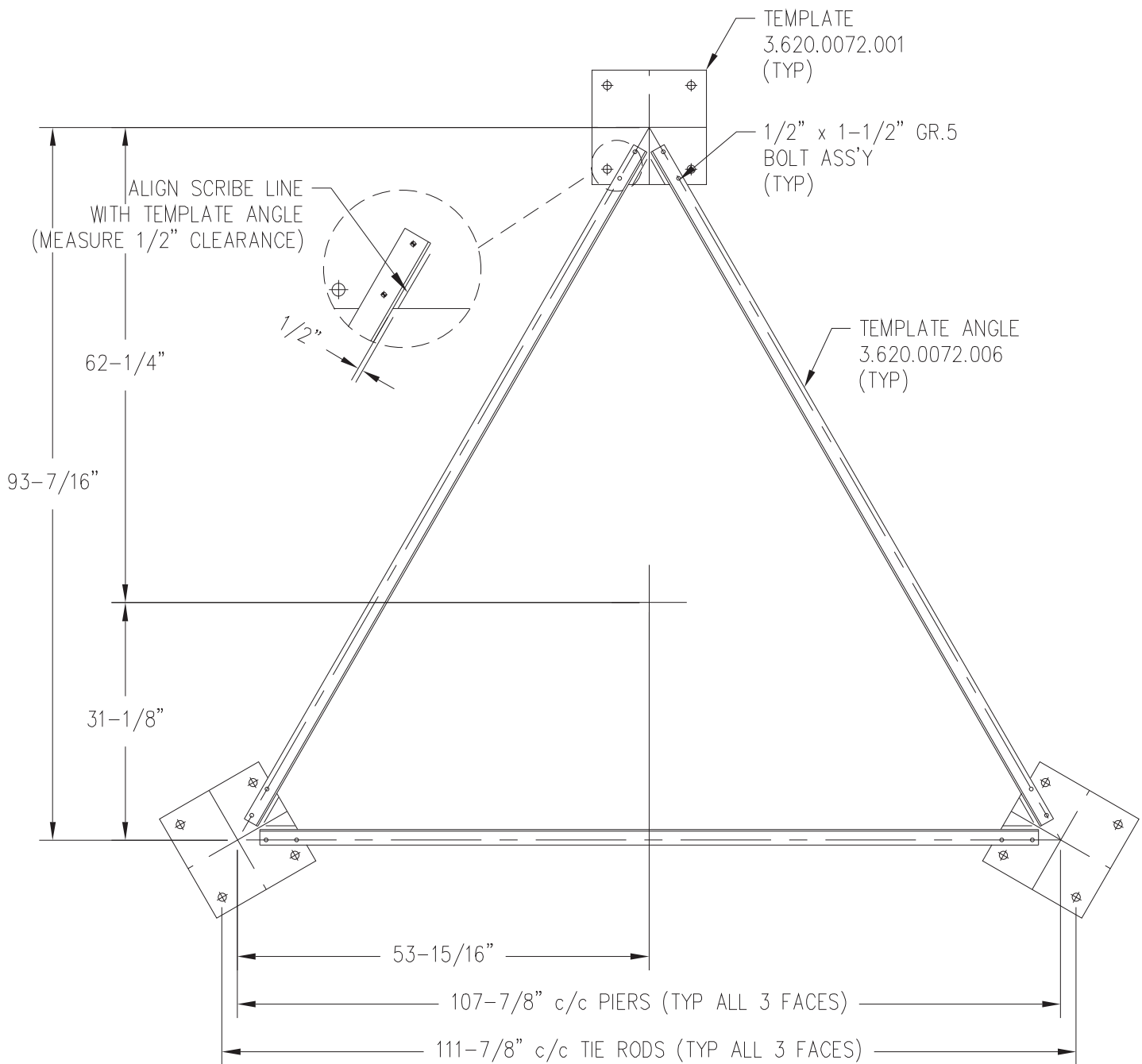
KIT #4.79.0000.517

CONFIDENTIAL:  
ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF  
TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION,  
RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN  
CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

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



|                               |                                |             |            |
|-------------------------------|--------------------------------|-------------|------------|
| CUSTOMER:                     | SITE:                          | SCALE:      | 20.000     |
| DATE:<br>12 NOV 04            | BY:<br>MAW                     | CHK:<br>JAG | APP:<br>JB |
| TITLE:<br>SECTION 16 TEMPLATE | DRAWING NO.<br>000001.620.0104 |             |            |



NOTES:

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

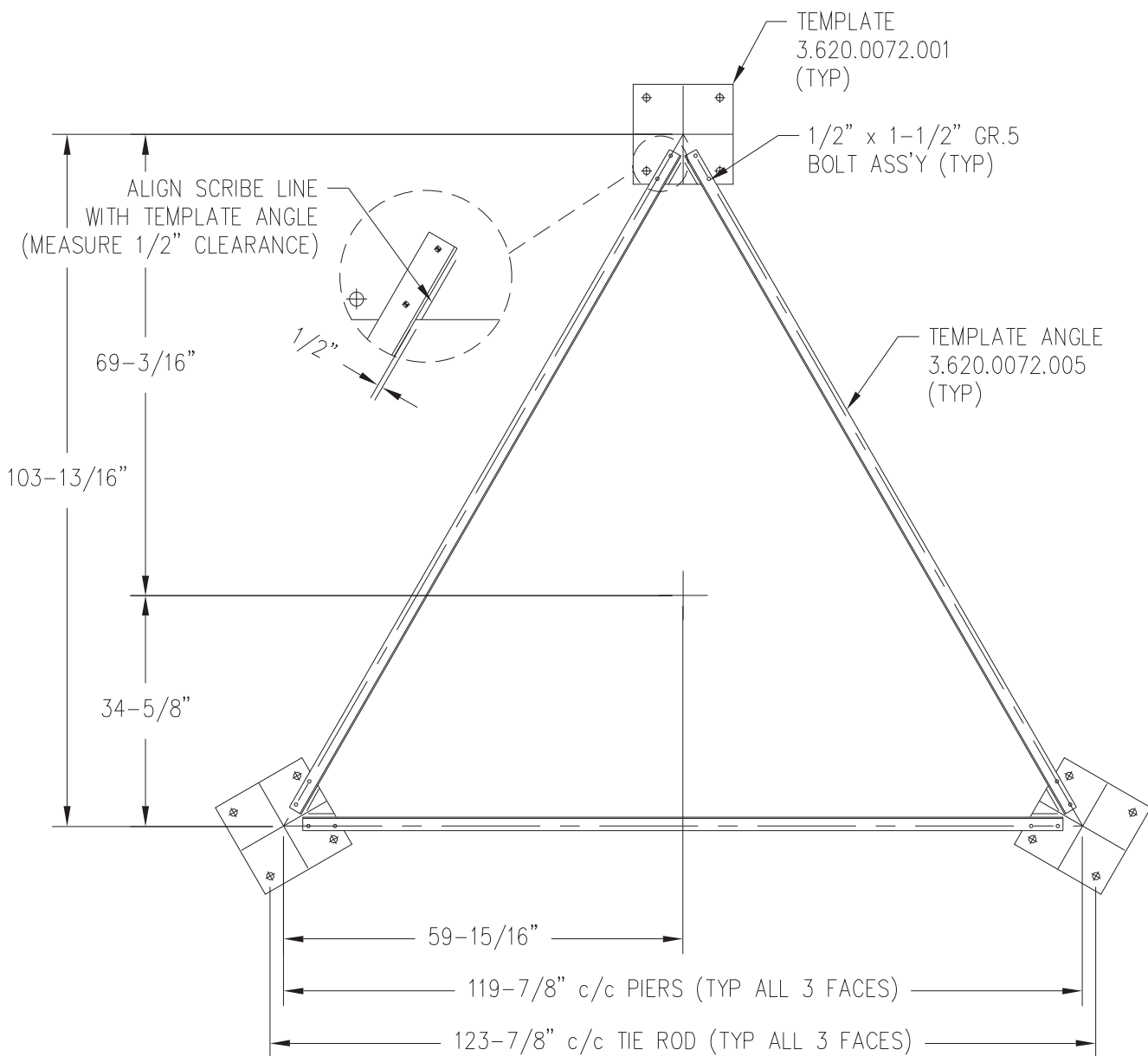
KIT #4.79.0000.518

CONFIDENTIAL:  
ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF  
TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION,  
RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN  
CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

| REV. | REV.<br>BY: | CHK.<br>BY: | DESCRIPTION | DATE |
|------|-------------|-------------|-------------|------|
|      |             |             |             |      |



|                                |            |                  |
|--------------------------------|------------|------------------|
| CUSTOMER:                      | SITE:      | SCALE:<br>20.000 |
| DATE:<br>12 NOV 04             | BY:<br>MAW | CHK:<br>JAG      |
| TITLE:<br>SECTION 17 TEMPLATE  |            | APP:<br>JB       |
| DRAWING NO.<br>000001.620.0105 |            |                  |



NOTES:

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

KIT #4.79.0000.519

CONFIDENTIAL:  
ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF  
TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION,  
RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN  
CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

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



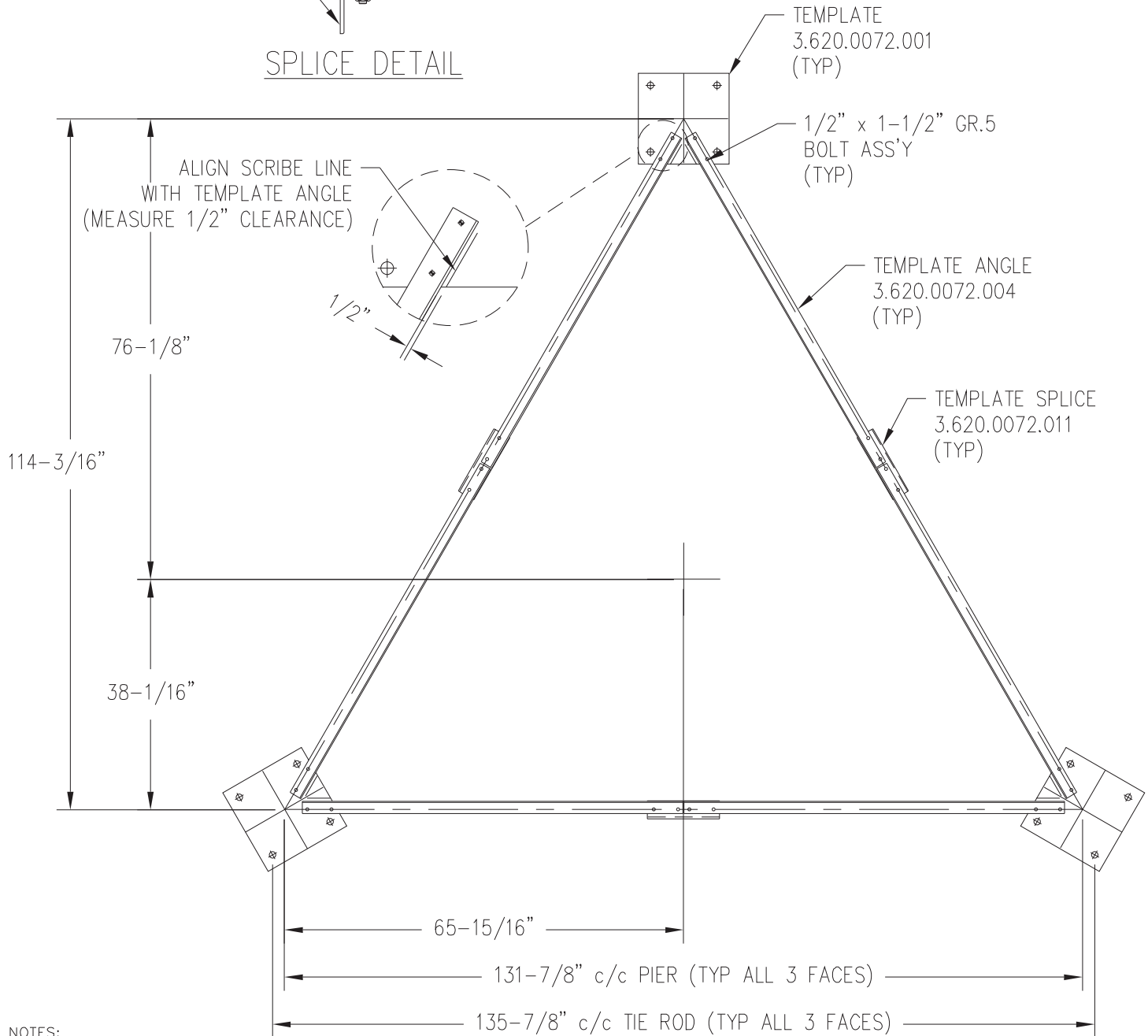
|                               |            |             |                                |
|-------------------------------|------------|-------------|--------------------------------|
| CUSTOMER:                     | SITE:      | SCALE:      | 25.000                         |
| DATE:<br>12 NOV 04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

1/2" x 1-1/2" GR.5  
BOLT ASS'Y

TEMPLATE ANGLE

TEMPLATE SPLICE

## SPLICE DETAIL



### NOTES:

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

KIT #4.79.0000.520

CONFIDENTIAL:  
ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF  
TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION,  
RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN  
CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

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



|                               |            |             |                                |
|-------------------------------|------------|-------------|--------------------------------|
| CUSTOMER:                     | SITE:      | SCALE:      | 25.000                         |
| DATE:<br>12 NOV 04            | BY:<br>MAW | CHK:<br>JAG | APP:<br>JB                     |
| TITLE:<br>SECTION 19 TEMPLATE |            |             | DRAWING NO.<br>000001.620.0107 |

1/2" x 1-1/2" GR.5  
BOLT ASS'Y

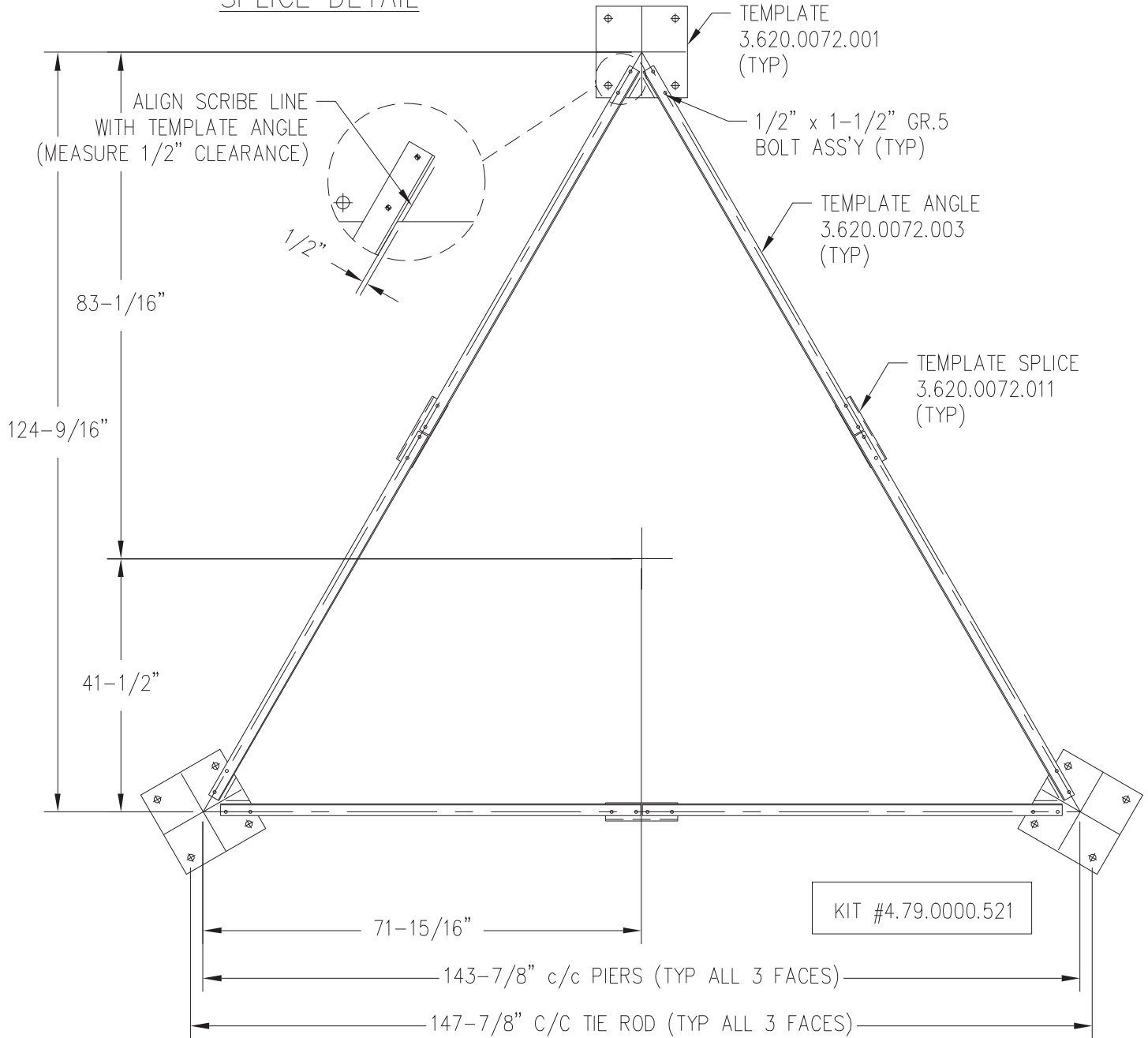
TEMPLATE ANGLE

TEMPLATE SPLICE

## SPLICE DETAIL

### NOTES:

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



CONFIDENTIAL:  
ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF  
TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION,  
RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN  
CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

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



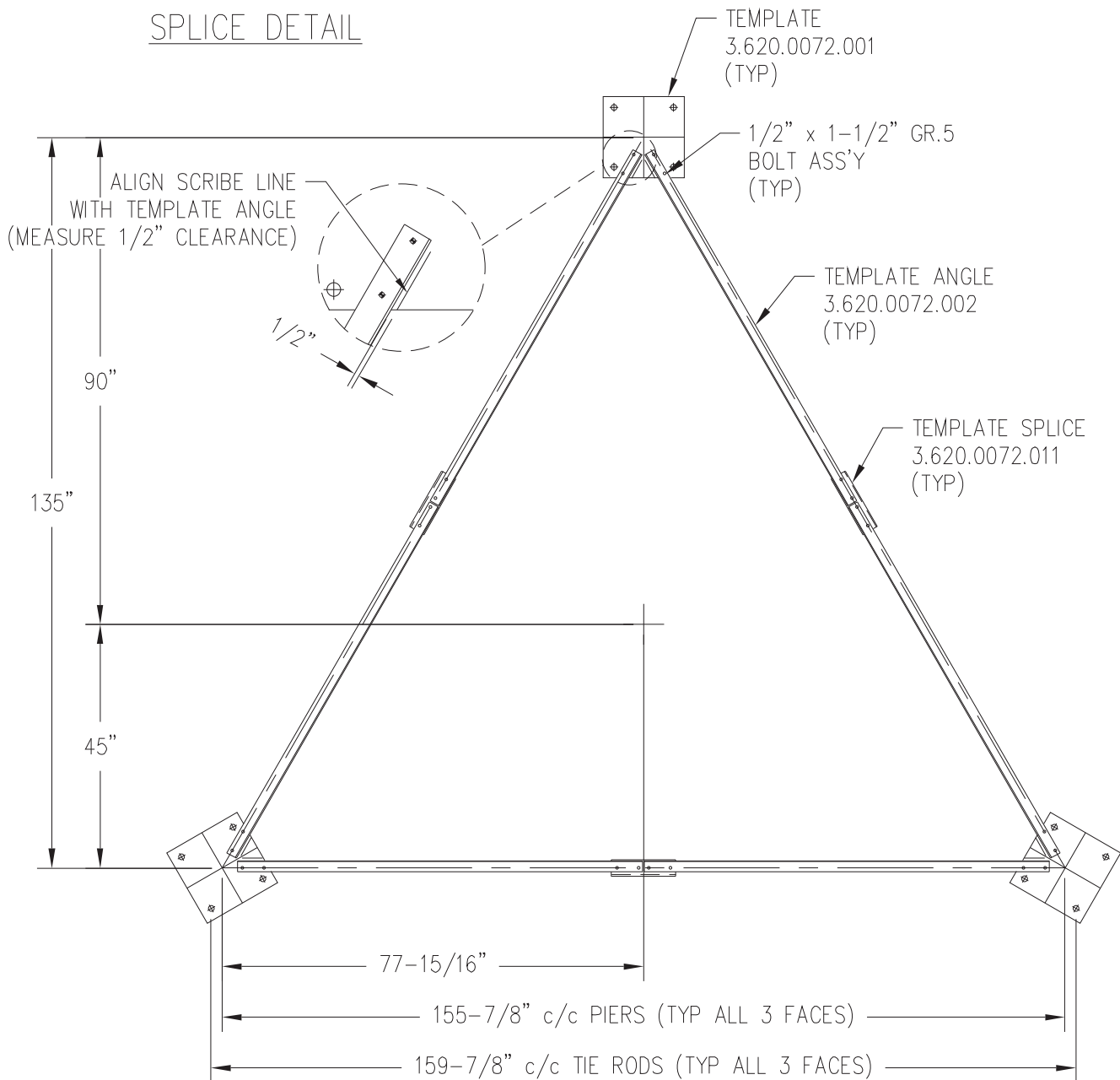
|                               |            |        |                                |
|-------------------------------|------------|--------|--------------------------------|
| CUSTOMER:                     | SITE:      | SCALE: | 25.000                         |
| DATE:<br>12 NOV 04            | BY:<br>MAW | CHK:   | APP:                           |
| TITLE:<br>SECTION 20 TEMPLATE |            |        | DRAWING NO.<br>000001.620.0108 |

1/2" x 1-1/2" GR.5  
BOLT ASS'Y

TEMPLATE ANGLE

TEMPLATE SPLICE

## SPLICE DETAIL



### NOTES:

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

KIT #4.79.0000.522

CONFIDENTIAL:  
ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF  
TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION,  
RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN  
CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

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



|                                     |            |        |                                |
|-------------------------------------|------------|--------|--------------------------------|
| CUSTOMER:                           | SITE:      | SCALE: | 30.000                         |
| DATE:<br>09 NOV 04                  | BY:<br>MAW | CHK:   | APP:                           |
| TITLE:<br>SECTION 21 TEMPLATE ASS'Y |            |        | DRAWING NO.<br>000001.620.0109 |



## **TABLE OF CONTENTS**

### **DESCRIPTION**

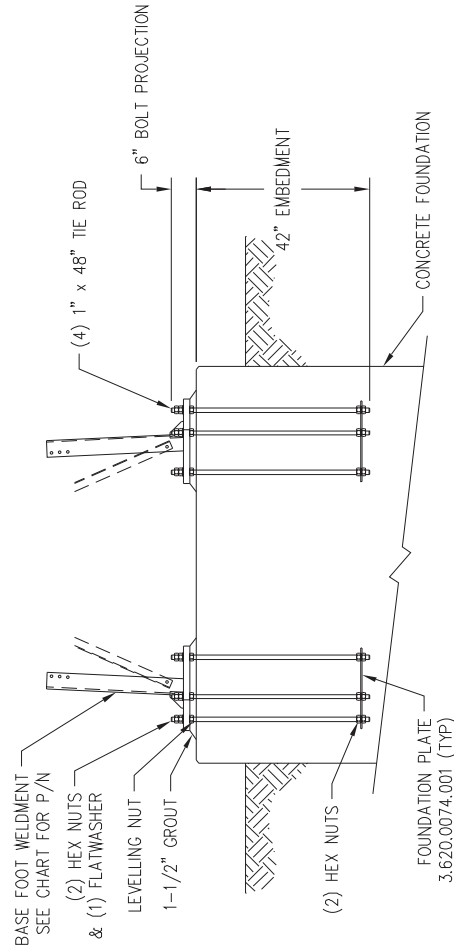
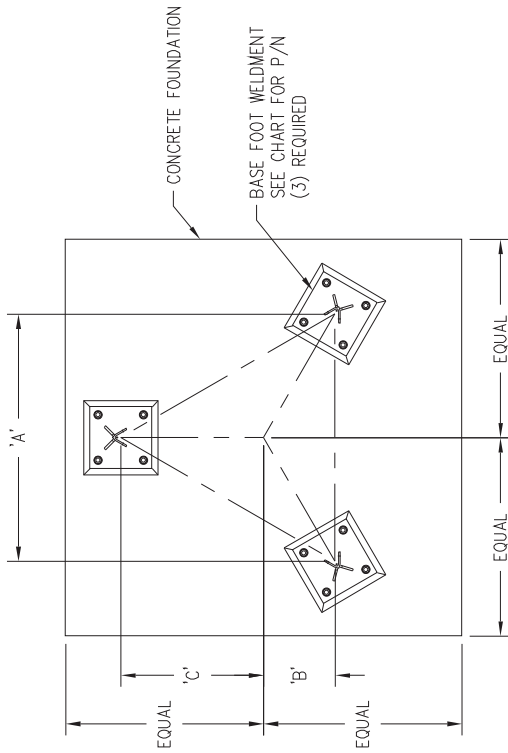
### **PAGE**

#### **SUPERTITAN® - Foundation Drawings for NORMAL DRY SOIL**

|   |       |
|---|-------|
| Tie Rod Anchor Instructions & Design – Sections 14-21 ..... | 51    |
| EIA/CSA Foundation Notes & Drawings .....                   | 52-58 |

#### **SUPERTITAN® - Foundation Drawings for ROCK CONDITIONS**

|  |    |
|--|----|
| Base Feet & Rock Bolts Instructions / Section 1 – 12HD ..... | 59 |
| Base Feet & Rock Bolts Instructions / Section 14 – 21 .....  | 60 |
| Base Feet & Hilti Bolts Instructions / Section 14 - 21 ..... | 61 |



| KIT NUMBER<br>w/ TIE RODS | KIT NUMBER<br>w/o TIE RODS | FITS TOWER<br>SECTION NUMBER | 'A'      | 'B'       | 'C'      | BASE FOOT<br>WELDMENT P/N |
|---------------------------|----------------------------|------------------------------|----------|-----------|----------|---------------------------|
| 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            |

NOTES:

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



CONFIDENTIAL: ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

|           |           |                             |              |      |        |      |                 |  |
|-----------|-----------|-----------------------------|--------------|------|--------|------|-----------------|--|
| CUSTOMER: | SITE:     |                             | SUPERITAN SS |      | SCALE: |      | 30.000          |  |
| DATE:     | 10 JUN 04 | BY:                         | MAW          | CHK: | JAG    | APP: | JB              |  |
| TITLE:    |           | TIE ROD ANCHOR INSTALLATION |              |      |        |      | DRAWING NO.     |  |
|           |           |                             |              |      |        |      | 000001.620.0067 |  |

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:

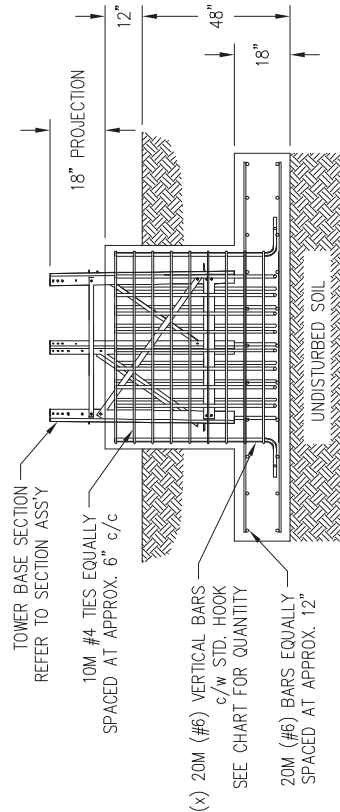
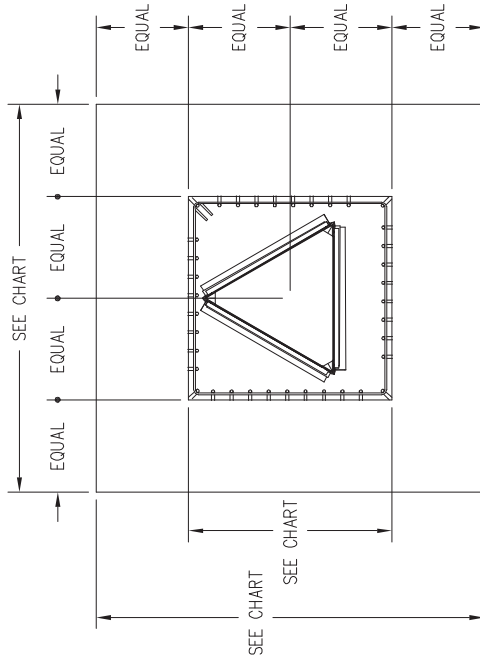
- 1) THESE NOTES ARE TO BE USED WITH FOUNDATION DETAILS SHOWN ON DWG. 000001.620.0050.

COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.



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

SUPER TITAN SS CONCRETE FOUNDATION – TOWERS WITH BOTTOM SECT #2-12HD  
SINGLE PAD DESIGN WITH 1 PIER  
(SHALLOW EXCAVATION DEPTH, (1) LARGE AREA)



- 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

| IF BOTTOM<br>TOWER<br>SECTION IS: | FOUNDATION<br>PAD SIZE (FT) | PIER SIZE<br>(FT) | VERTICAL PIER<br>BAR (X) | CUBIC YARDS CONCRETE   |                         |                 |
|-----------------------------------|-----------------------------|-------------------|--------------------------|------------------------|-------------------------|-----------------|
|                                   |                             |                   |                          | PAD CONCRETE<br>VOLUME | PIER CONCRETE<br>VOLUME | TOTAL<br>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             |

CONFIDENTIAL: ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DESIGN, REBAR, DIMENSIONS, OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.



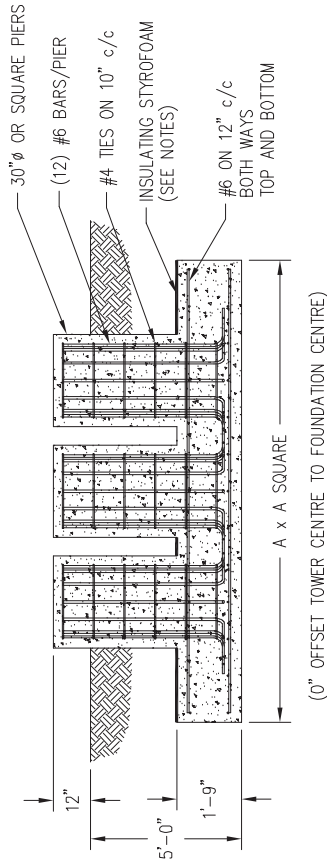
|           |                         |              |        |             |
|-----------|-------------------------|--------------|--------|-------------|
| CUSTOMER: | SITE:                   | SUPERITAN SS | SCALE: | 40.000      |
| DATE:     | BY:                     | MRH          | CHK:   | APP:        |
| 28 MAR 06 |                         |              |        |             |
| TITLE:    | EIA – REGULAR FND – NDS |              |        | DRAWING NO. |
|           |                         |              |        | 1,620.0050  |

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

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.

- 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.

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



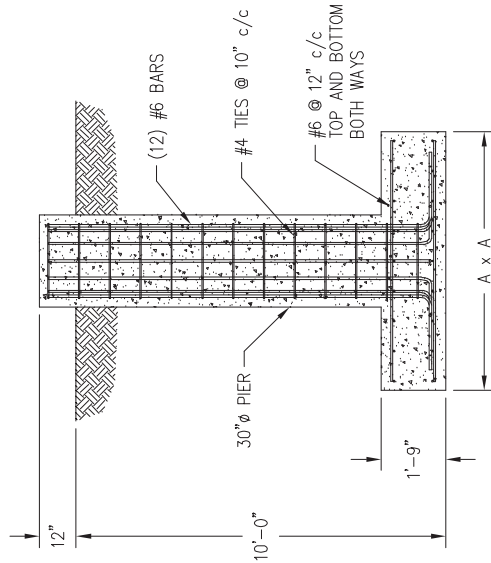
CONFIDENTIAL: ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON TSE. NO REPRODUCTION, DISSEMINATION, OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.



|           |       |              |        |             |
|-----------|-------|--------------|--------|-------------|
| CUSTOMER: | SITE: | SUPERITAN SS | SCALE: | 40,000      |
| DATE:     | BY:   | MRH          | CHK:   | APP:        |
| 28 MAR 06 |       |              |        |             |
| TITLE:    | EIA   | SINGLE PAD   | 3 PIER | NDS         |
|           |       |              |        | DRAWING NO. |
|           |       |              |        | 1.620.0120  |

DRAWING NO.

**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 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.

**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 01.620.0124. THAT DESIGN REQUIRES THAT NO FROST PENETRATION OCCURS.
- 5) ANOTHER ALTERNATE DESIGN SEE DWG 01.620.0120 (RAFT DESIGN)

| TOWER SECTION<br>BOTTOM | A     | CUBIC YARDS of CONCRETE (EACH) |          |         |           | OVERTURNING MOMENT<br>(KIPSFT) | SHEAR<br>(KIPS) | AXIAL<br>(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                           | 10.67           | 7.99            |
| #19                     | 7'-6" | 3.65                           | 1.68     | 2.14    | 5.33      | 5.79                           | 12.19           | 9.25            |
| #20                     | 8'-0" | 4.15                           | 1.68     | 2.14    | 5.83      | 6.29                           | 13.96           | 10.60           |
| #21                     | 8'-6" | 4.68                           | 1.68     | 2.14    | 6.36      | 6.82                           | 15.54           | 11.91           |



CONFIDENTIAL: ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON TOWER MANUFACTURING COMPANY LTD. ALL DESIGN, REVISION, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.



|           |                        |              |        |      |
|-----------|------------------------|--------------|--------|------|
| CUSTOMER: | SITE:                  | SUPERITAN SS | SCALE: | NIS  |
| DATE:     | BY:                    | MRH          | CHK:   | APP: |
| 28 MAR 06 |                        |              |        |      |
| TITLE:    | EIA – PAD & PIER – NDS |              |        |      |
|           | DRAWING NO. 1.620.0126 |              |        |      |

DRAWING NO.



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:

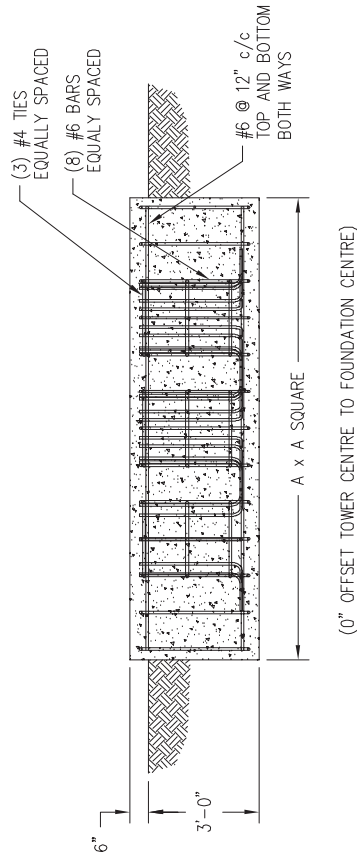
- 1) ALL WORKMANSHIP SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL STANDARDS.
- 2) FOUNDATIONS DESIGNED FOR NORMAL DRY SOIL CONDITIONS.
- 3) THE TOWER BASE PAD SHALL BE PLACED AGAINST UNDISTURBED SOIL.

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.



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

| TOWER SECTION<br>BOTTOM | A      | CUBIC YARDS of CONCRETE |  | OVERTURNING MOMENT<br>(KIPSFT) | SHEAR<br>(KIPS) | AXIAL<br>(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           |

- 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.

|  |                    |                        |
|--|--------------------|------------------------|
| CONFIDENTIAL: ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DESIGN, REVISION, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD. |                    |                        |
| TRYLON TSF   |                    |                        |
| CUSTOMER:  | SITE: SUPERITAN SS | SCALE: 40,000          |
| DATE: 28 MAR 06  | BY: MRH            | CHK: APF:              |
| TITLE: EIA SURFACE RAFT NDS  |                    | DRAWING NO. 1.620.0124 |



#### 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 KPa. 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 MPa.
- 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  $\pm$  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.

##### NOTES:

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

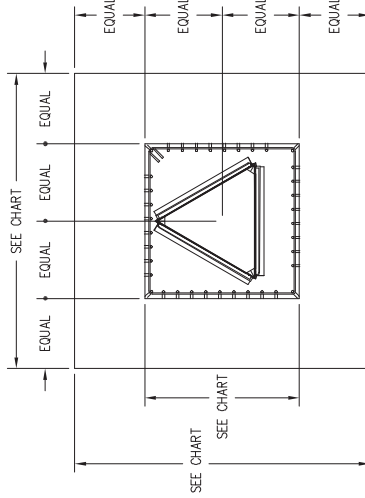
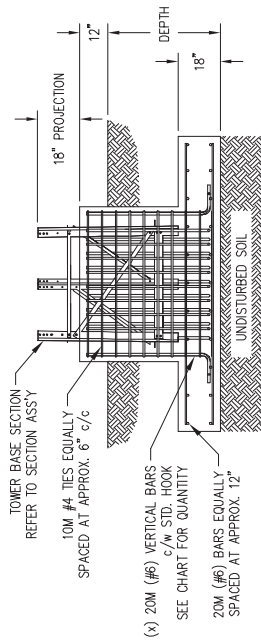
COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

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



|                                |            |       |  |                                |  |
|--------------------------------|------------|-------|--|--------------------------------|--|
| CUSTOMER:                      |            | SITE: |  | SCALE:<br>1.000                |  |
| DATE:<br>24 APR 03             | BY:<br>MAW | CHK:  |  | APP:                           |  |
| TITLE:<br>CSA FOUNDATION NOTES |            |       |  | DRAWING NO.<br>000001.620.0053 |  |

SUPER TITAN SS CSA FOUNDATION DESIGN — BASE SECTION #2 — #12HD



| USE WHEN FROST DEPTH IS LESS THAN OR EQUAL TO 4'-0" |                 |               |       |                     |               | CUBIC YARDS OF CONCRETE |            |  |
|---|-----------------|---------------|-------|---------------------|---------------|-------------------------|------------|--|
| TOWER BASE WIDTH                                    | PAD WIDTH       | PIER SIZE     | DEPTH | VERT. PIER BAR QTY. | PAD CONC VOL. | PIER CONC VOL.          | TOTAL VOL. |  |
| #12 / #12HD   | 11'-6" x 11'-6" | 5'-6" x 5'-6" | 4'-0" | 36                  | 7.4           | 3.9                     | 11.3       |  |
| #11   | 10'-6" x 10'-6" | 5'-6" x 5'-6" | 4'-0" | 36                  | 6.1           | 3.9                     | 10.0       |  |
| #10   | 10'-0" x 10'-0" | 5'-0" x 5'-0" | 4'-0" | 30                  | 5.6           | 3.2                     | 8.8        |  |
| #9  | 9'-6" x 9'-6"   | 5'-0" x 5'-0" | 4'-0" | 30                  | 5.0           | 3.2                     | 8.2        |  |
| #8  | 9'-0" x 9'-0"   | 4'-6" x 4'-6" | 4'-0" | 26                  | 4.5           | 2.6                     | 7.1        |  |
| #7  | 8'-6" x 8'-6"   | 4'-6" x 4'-6" | 4'-0" | 26                  | 4.0           | 2.6                     | 6.6        |  |
| #6  | 7'-6" x 7'-6"   | 4'-0" x 4'-0" | 4'-0" | 20                  | 3.1           | 2.1                     | 5.2        |  |
| #5  | 7'-0" x 7'-0"   | 4'-0" x 4'-0" | 4'-0" | 20                  | 2.7           | 2.1                     | 4.8        |  |
| #4  | 7'-0" x 7'-0"   | 4'-0" x 4'-0" | 4'-0" | 20                  | 2.7           | 2.1                     | 4.8        |  |
| #3  | 6'-6" x 6'-6"   | 4'-0" x 4'-0" | 4'-0" | 20                  | 2.4           | 2.1                     | 4.5        |  |
| #2  | 6'-6" x 6'-6"   | 4'-0" x 4'-0" | 4'-0" | 20                  | 2.4           | 2.1                     | 4.5        |  |

| USE WHEN FROST DEPTH IS GREATER THAN 4'-0" BUT LESS THAN OR EQUAL TO 6'-0" |                 |               |       |                     |               | CUBIC YARDS OF CONCRETE |            |  |
|--|-----------------|---------------|-------|---------------------|---------------|-------------------------|------------|--|
| TOWER BASE WIDTH   | PAD WIDTH       | PIER SIZE     | DEPTH | VERT. PIER BAR QTY. | PAD CONC VOL. | PIER CONC VOL.          | TOTAL VOL. |  |
| #12 / #12HD  | 10'-6" x 10'-6" | 5'-6" x 5'-6" | 6'-0" | 36                  | 6.1           | 6.2                     | 12.3       |  |
| #11  | 10'-0" x 10'-0" | 5'-6" x 5'-6" | 6'-0" | 36                  | 5.6           | 6.2                     | 11.8       |  |
| #10  | 9'-6" x 9'-6"   | 5'-0" x 5'-0" | 6'-0" | 30                  | 5.0           | 5.1                     | 10.1       |  |
| #9   | 9'-0" x 9'-0"   | 5'-0" x 5'-0" | 6'-0" | 30                  | 4.5           | 5.1                     | 9.6        |  |
| #8   | 8'-6" x 8'-6"   | 4'-6" x 4'-6" | 6'-0" | 26                  | 4.0           | 4.1                     | 8.1        |  |
| #7   | 7'-6" x 7'-6"   | 4'-6" x 4'-6" | 6'-0" | 26                  | 3.1           | 4.1                     | 7.2        |  |
| #6   | 7'-0" x 7'-0"   | 4'-0" x 4'-0" | 6'-0" | 20                  | 2.7           | 3.3                     | 6.0        |  |
| #5   | 6'-6" x 6'-6"   | 4'-0" x 4'-0" | 6'-0" | 20                  | 2.4           | 3.3                     | 5.7        |  |
| #4   | 6'-6" x 6'-6"   | 4'-0" x 4'-0" | 6'-0" | 20                  | 2.4           | 3.3                     | 5.7        |  |
| #3   | 6'-0" x 6'-0"   | 4'-0" x 4'-0" | 6'-0" | 20                  | 2.0           | 3.3                     | 5.3        |  |
| #2   | 6'-0" x 6'-0"   | 4'-0" x 4'-0" | 6'-0" | 20                  | 2.0           | 3.3                     | 5.3        |  |

| USE WHEN FROST DEPTH IS GREATER THAN 6'-0" BUT LESS THAN OR EQUAL TO 8'-0" |                 |               |       |                     |               | CUBIC YARDS OF CONCRETE |            |  |
|--|-----------------|---------------|-------|---------------------|---------------|-------------------------|------------|--|
| TOWER BASE WIDTH   | PAD WIDTH       | PIER SIZE     | DEPTH | VERT. PIER BAR QTY. | PAD CONC VOL. | PIER CONC VOL.          | TOTAL VOL. |  |
| #12 / #12HD  | 10'-0" x 10'-0" | 5'-6" x 5'-6" | 8'-0" | 36                  | 5.6           | 8.4                     | 14.0       |  |
| #11  | 9'-6" x 9'-6"   | 5'-6" x 5'-6" | 8'-0" | 36                  | 5.0           | 8.4                     | 13.4       |  |
| #10  | 9'-0" x 9'-0"   | 5'-0" x 5'-0" | 8'-0" | 30                  | 4.5           | 6.9                     | 11.4       |  |
| #9   | 8'-6" x 8'-6"   | 5'-0" x 5'-0" | 8'-0" | 30                  | 4.0           | 6.9                     | 10.9       |  |
| #8   | 8'-0" x 8'-0"   | 4'-6" x 4'-6" | 8'-0" | 26                  | 3.6           | 5.6                     | 9.2        |  |
| #7   | 7'-0" x 7'-0"   | 4'-6" x 4'-6" | 8'-0" | 26                  | 2.7           | 5.6                     | 8.3        |  |
| #6   | 6'-6" x 6'-6"   | 4'-0" x 4'-0" | 8'-0" | 20                  | 2.4           | 4.5                     | 6.9        |  |
| #5   | 6'-0" x 6'-0"   | 4'-0" x 4'-0" | 8'-0" | 20                  | 2.0           | 4.5                     | 6.5        |  |
| #4   | 6'-0" x 6'-0"   | 4'-0" x 4'-0" | 8'-0" | 20                  | 2.0           | 4.5                     | 6.5        |  |
| #3   | 5'-6" x 5'-6"   | 4'-0" x 4'-0" | 8'-0" | 20                  | 1.7           | 4.5                     | 6.2        |  |
| #2   | 5'-6" x 5'-6"   | 4'-0" x 4'-0" | 8'-0" | 20                  | 1.7           | 4.5                     | 6.2        |  |

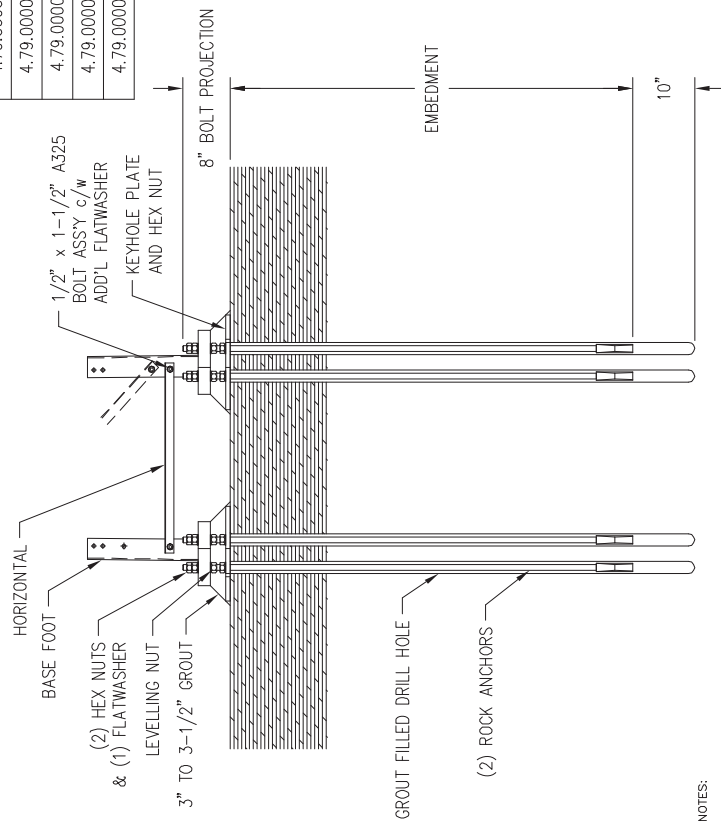
NOTES: 1) REFER TO DWG. 000001.620.0053 FOR FOUNDATION NOTES.



CONFIDENTIAL: ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON MANUFACTURING COMPANY, LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY, LTD.

|                        |  |             |  |                 |  |
|------------------------|--|-------------|--|-----------------|--|
| CUSTOMER:              |  | SITE:       |  | SCALE:          |  |
| DATE: 24 APR 03        |  | BY: MAM     |  | CHK: BCP        |  |
| TITLE:                 |  | DRAWING NO. |  | 000001.620.0052 |  |
| CSA FOUNDATION DETAILS |  | DATE        |  |                 |  |





NOTES:

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

| 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-A14    | 7'-6"     | 3.620.0020.001 |
| 4.79.0000.103 | 3F          | 16'-3/4"   | 3.620.0024.001 | 5/8" x 98"  | R1S-05-A14    | 7'-6"     | 3.620.0020.002 |
| 4.79.0000.104 | 4F          | 19'-3/4"   | 3.620.0023.001 | 5/8" x 98"  | R1S-05-A14    | 7'-6"     | 3.620.0020.003 |
| 4.79.0000.105 | 5F          | 22'-3/4"   | 3.620.0024.001 | 5/8" x 98"  | R1S-05-A14    | 7'-6"     | 3.620.0020.004 |
| 4.79.0000.106 | 6F          | 25'-3/8"   | 3.620.0025.001 | 7/8" x 116" | R1S-07-C14    | 9'-0"     | 3.620.0020.005 |
| 4.79.0000.107 | 7F          | 28'-1/16"  | 3.620.0026.001 | 7/8" x 116" | R1S-07-C14    | 9'-0"     | 3.620.0020.006 |
| 4.79.0000.108 | 8F          | 31'-1/16"  | 3.620.0027.001 | 7/8" x 116" | R1S-07-C14    | 9'-0"     | 3.620.0020.007 |
| 4.79.0000.109 | 9F          | 34'-1/16"  | 3.620.0026.001 | 7/8" x 116" | R1S-07-C14    | 9'-0"     | 3.620.0020.008 |
| 4.79.0000.110 | 10F         | 37'-1/16"  | 3.620.0027.001 | 7/8" x 116" | 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 CEMENTITIOUS, 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.

1) TH

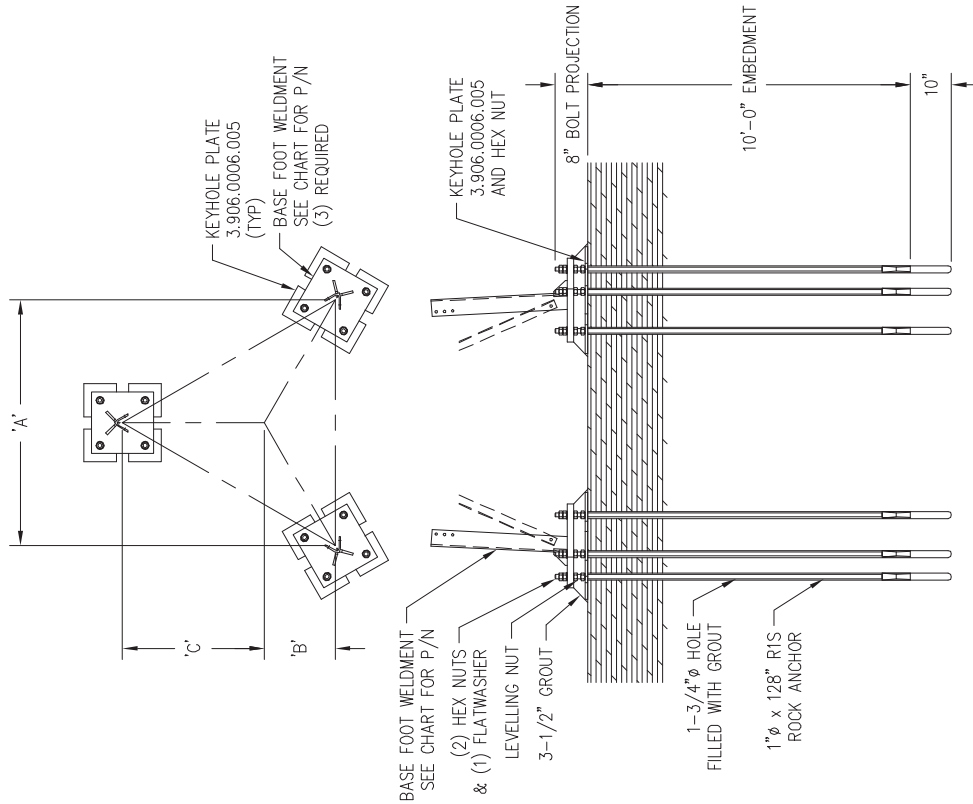
- 1) THIS BASE FOOT KIT IS USEFUL FOR SOUND AND SOLID ROCK FOUNDATIONS WHERE HOLES CAN BE FIELD DRILLED INTO THE ROCK.

COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD.  
ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT  
WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.



|                         |           |     |        |      |                 |
|-------------------------|-----------|-----|--------|------|-----------------|
| CUSTOMER:               | SITE:     |     | SCALE: |      | 20,000          |
| DATE:                   | 21 OCT 03 | BY: | MAW    | CHK: | MS APP: BZ      |
| TITLE:                  |           |     |        |      | DRAWING NO.     |
| ROCK BOLT SECT. #2-12HD |           |     |        |      | 000001.620.0057 |

ROCK BOLT SECT. #2-12HD 000001.620.0057



NOTES:

- 1) USE TEMPLATE PROVIDED TO PROPERLY POSITION ROCK BOLTS.

| 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:

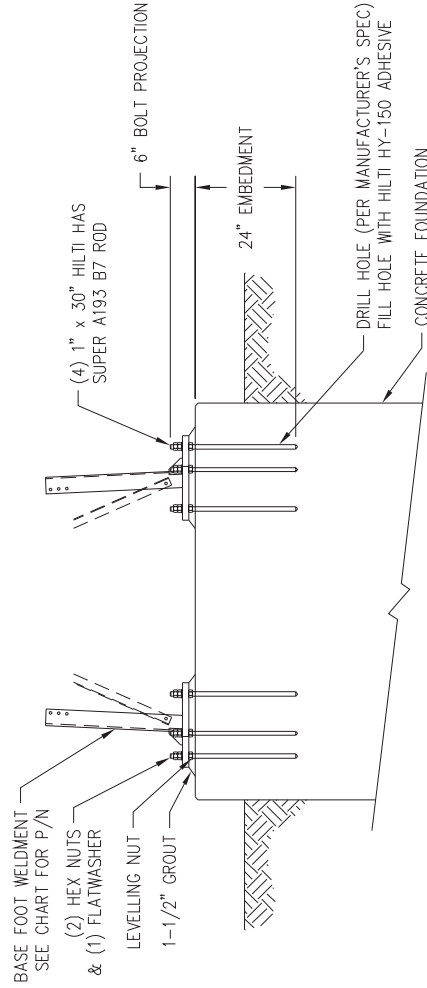
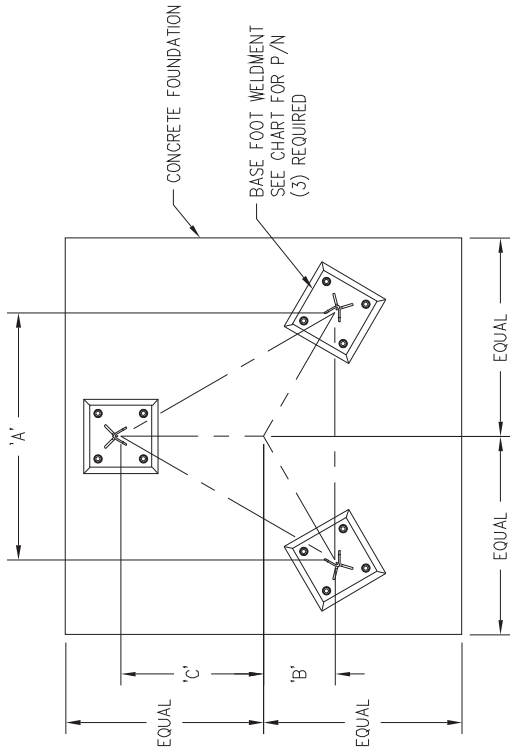
- 1) DRILL HOLE TO PROPER SIZE, BATTER AND \*DEPTH SHOWN ON THE DRAWINGS\*. DRILL THE HOLE TWELVE (12) INCHES DEEPER THAN EMBEDMENT LENGTH SHOWN.
- 2) PLACE THE WILLIAMS' SUPER HIGH TENSILE ROCK BOLT IN POSITION IN THE HOLE WITH SUFFICIENT PROJECTION. TORQUE THE BOLT TO APPROXIMATELY 500 ft lbs TO SET 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 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.



CONFIDENTIAL: ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DESIGN, RECORDS, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.



|             |                 |                             |        |        |
|-------------|-----------------|-----------------------------|--------|--------|
| CUSTOMER:   | SITE:           | SUPERITAN SS                | SCALE: | 30.000 |
| DATE:       | BY:             | MAW                         | CHK:   | JAG    |
| TITLE:      | 04 JAN 05       | ISSUED FOR DISTRIBUTION     | MRH    | MRH    |
| DATE:       | 04 JAN 05       | DESCRIPTION                 | REV.   | REV.   |
| DRAWING NO. | 000001.620.0069 | ROCK BOLT INST. SEC. #13-21 |        |        |



| KIT NUMBER    | FITS TOWER SECTION NUMBER | 'A'      | 'B'       | 'C'      | BASE FOOT WELDMENT P/N | HY150 CARTRIDGES |
|---------------|---------------------------|----------|-----------|----------|------------------------|------------------|
| 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                |

NOTES:

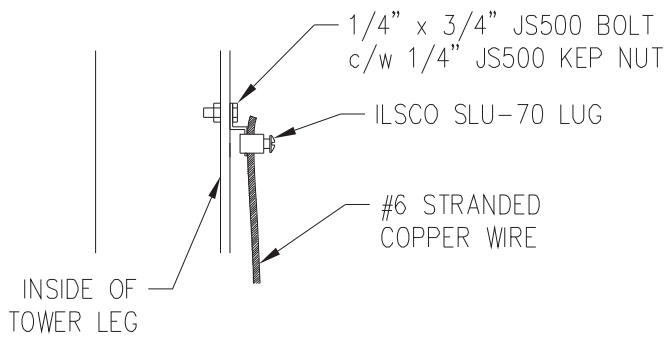
- 1) IF INSTALLING ON A NEW OR ON AN EXISTING CONCRETE PAD PLEASE NOTE THAT THIS DESIGN REQUIRES A PRE-EXISTING TOP "MAT" OF REINFORCING BARS SUFFICIENT TO PREVENT BREAKAWAY OF CONCRETE AROUND THE HILTI BOLTS.
- 2) USE TEMPLATE PROVIDED TO PROPERLY POSITION HILTI RODS.
- 3) NEW FOUNDATIONS MUST BE DESIGNED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



CONFIDENTIAL: ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

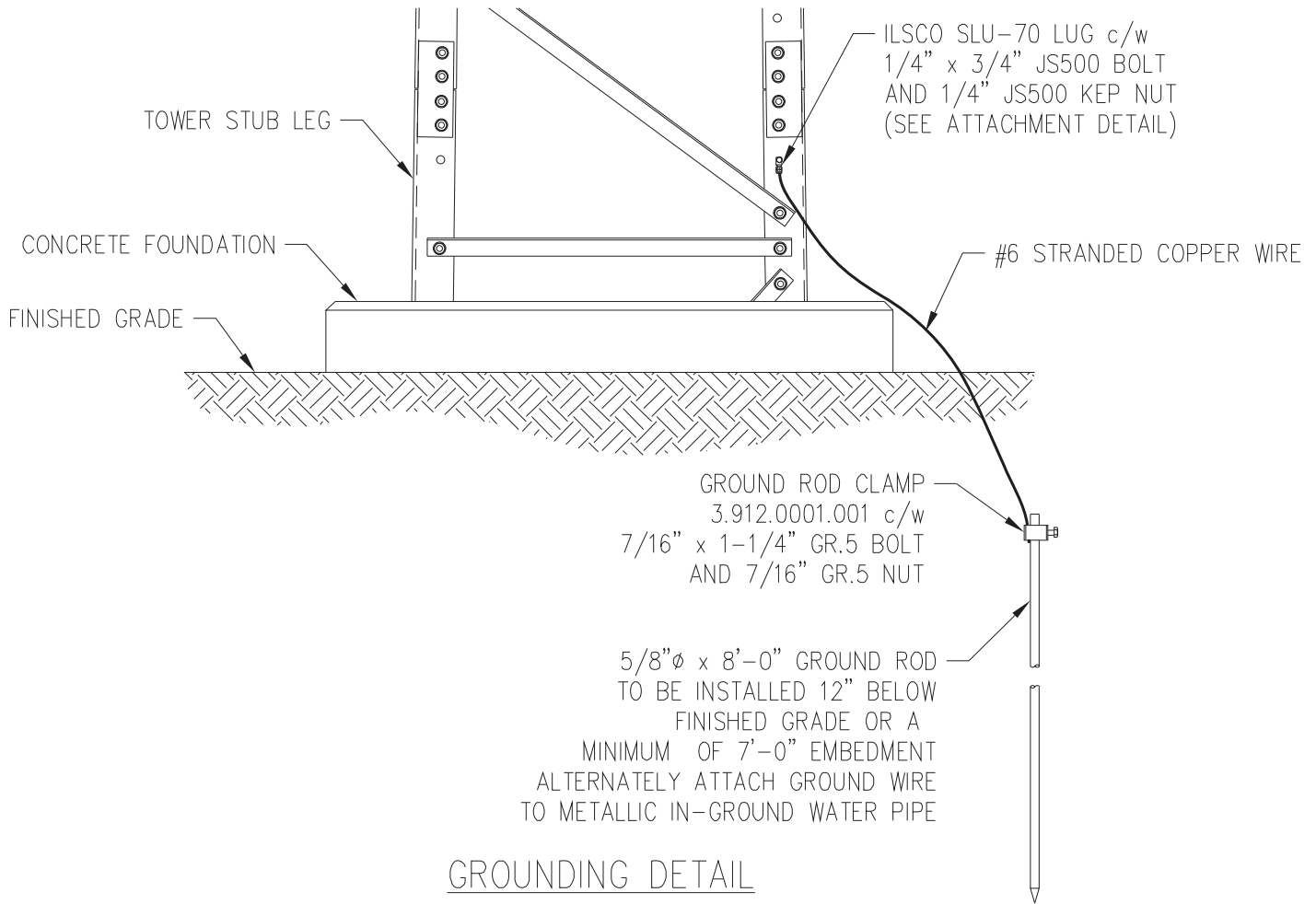
|           |                         |               |                 |        |
|-----------|-------------------------|---------------|-----------------|--------|
| CUSTOMER: | SITE:                   | SUPERITIAN SS | SCALE:          | 30.000 |
| DATE:     | BY:                     | MAW           | CHK:            | JAG    |
| DATE:     | BY:                     | MAW           | CHK:            | JAG    |
| TITLE:    | HILTI BOLT INSTALLATION | DRAWING NO.   | 000001.620.0068 |        |





CLAMP ATTACHMENT

| GROUNDING KIT P/N 4.91.0103.000 |                |                                   |
|---------------------------------|----------------|-----------------------------------|
| QUANTITY                        | PART NO.       | DESCRIPTION                       |
| 1                               | 3.912.0006.001 | 5/8"Ø 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

COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

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

NOTES:



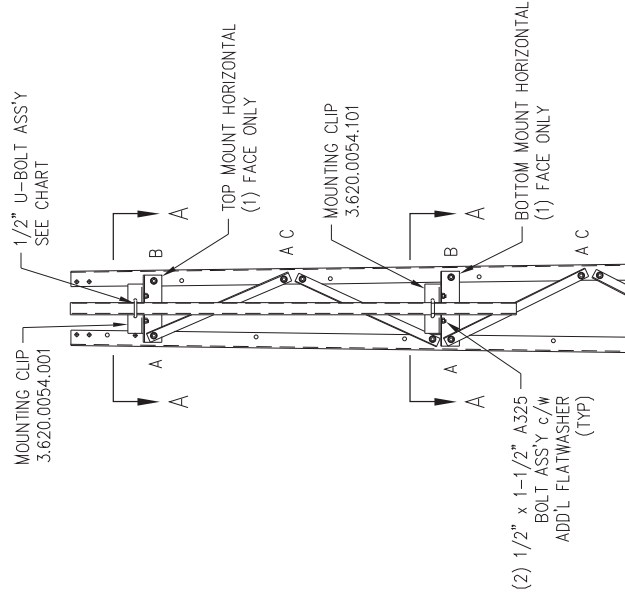
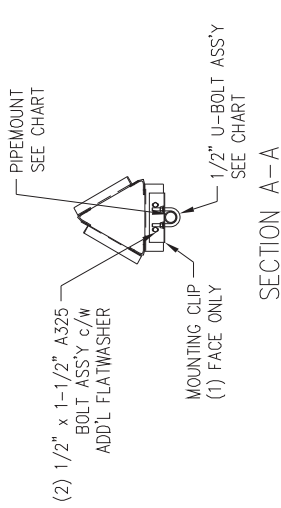
|                          |                             |          |         |
|--------------------------|-----------------------------|----------|---------|
| CUSTOMER:                | SITE:                       | SCALE:   | 15.000  |
| DATE: 10 APR 03          | BY: MAW                     | CHK: BCP | APP: JB |
| TITLE: GROUNDING DETAILS | DRAWING NO. 000001.620.0030 |          |         |

1.9" OD PIPEMOUNT KITS

| SECT. No. | MOUNT KIT No. | TOP MNT. HORIZ. | BTTM. 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. | BTTM. 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 |



| BOLT SCHEDULE (SECT. 1 TO 5) |                                    |     |
|------------------------------|------------------------------------|-----|
| 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   |

| BOLT SCHEDULE (SECT. 6 TO 12) |                                    |     |
|-------------------------------|------------------------------------|-----|
| 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   |

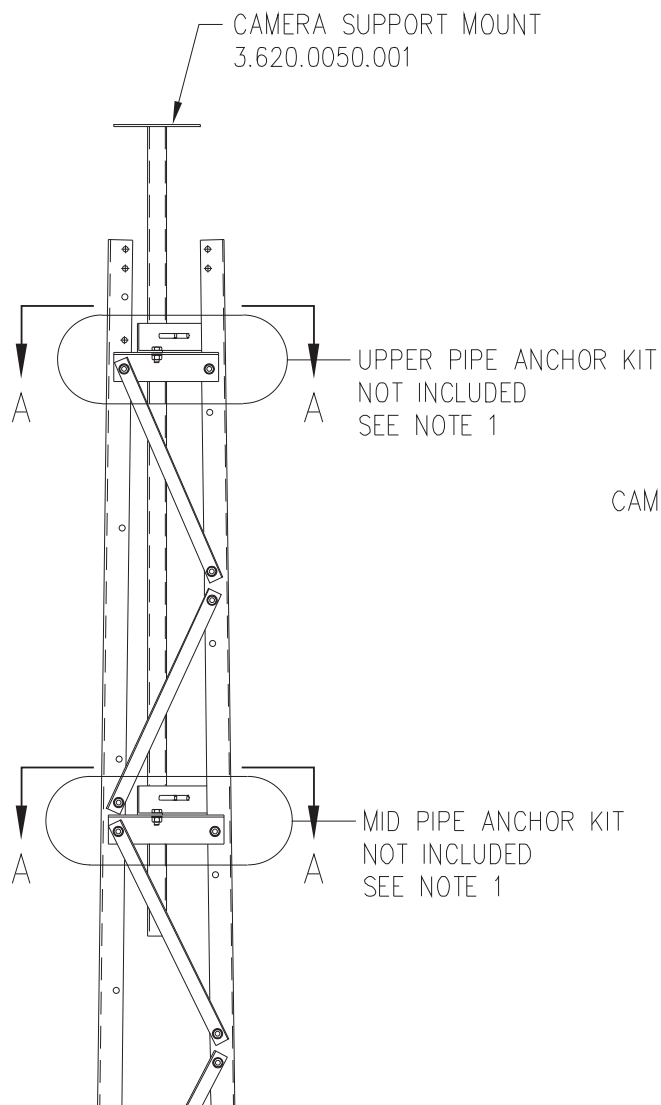


NOTES:

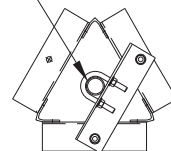
CONFIDENTIAL: ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON MANUFACTURING COMPANY, LTD. NO PART OF THIS DOCUMENT, DISCLOSE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY, LTD.



|           |                    |       |     |        |                             |
|-----------|--------------------|-------|-----|--------|-----------------------------|
| CUSTOMER: |                    | SITE: |     | SCALE: |                             |
| DATE:     | 11 APR 03          | BY:   | MAW | CHK:   | BCP                         |
| TITLE:    | SIDE MOUNT DETAILS |       |     |        | DRAWING NO. 000001.620.0033 |



CAMERA SUPPORT MOUNT  
3.620.0050.001



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.

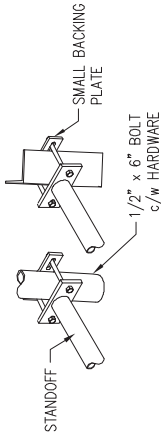
COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING  
COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR  
USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON  
MANUFACTURING COMPANY LTD.

| REV. | REV.<br>BY: | CHK.<br>BY: | DESCRIPTION | DATE |
|------|-------------|-------------|-------------|------|
|      |             |             |             |      |

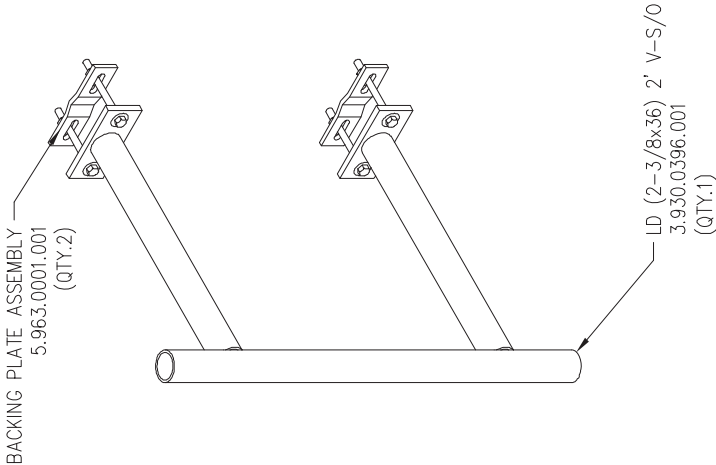


|                                |            |                  |
|--------------------------------|------------|------------------|
| CUSTOMER:                      | SITE:      | SCALE:<br>20.000 |
| DATE:<br>11 APR 03             | BY:<br>MAW | CHK:<br>BCP      |
| TITLE:<br>CAMERA MOUNT DETAILS |            | APP:<br>JB       |
| DRAWING NO.<br>000001.620.0034 |            |                  |

SMALL BACKING 'A' KIT



- SMALL BACKING PLATE 'A' ASSEMBLY (5.963.0001.001)  
(1) 3.963.0182.001 SMALL BACKING PLATE  
(2) 1201362 1/2" x 6" HEX BOLT (GRD 5)  
(2) 1201120 1/2" HEX NUT  
(2) 1201121 1/2" LOCK WASHER  
(2) 1201122 1/2" FLAT WASHER



|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|

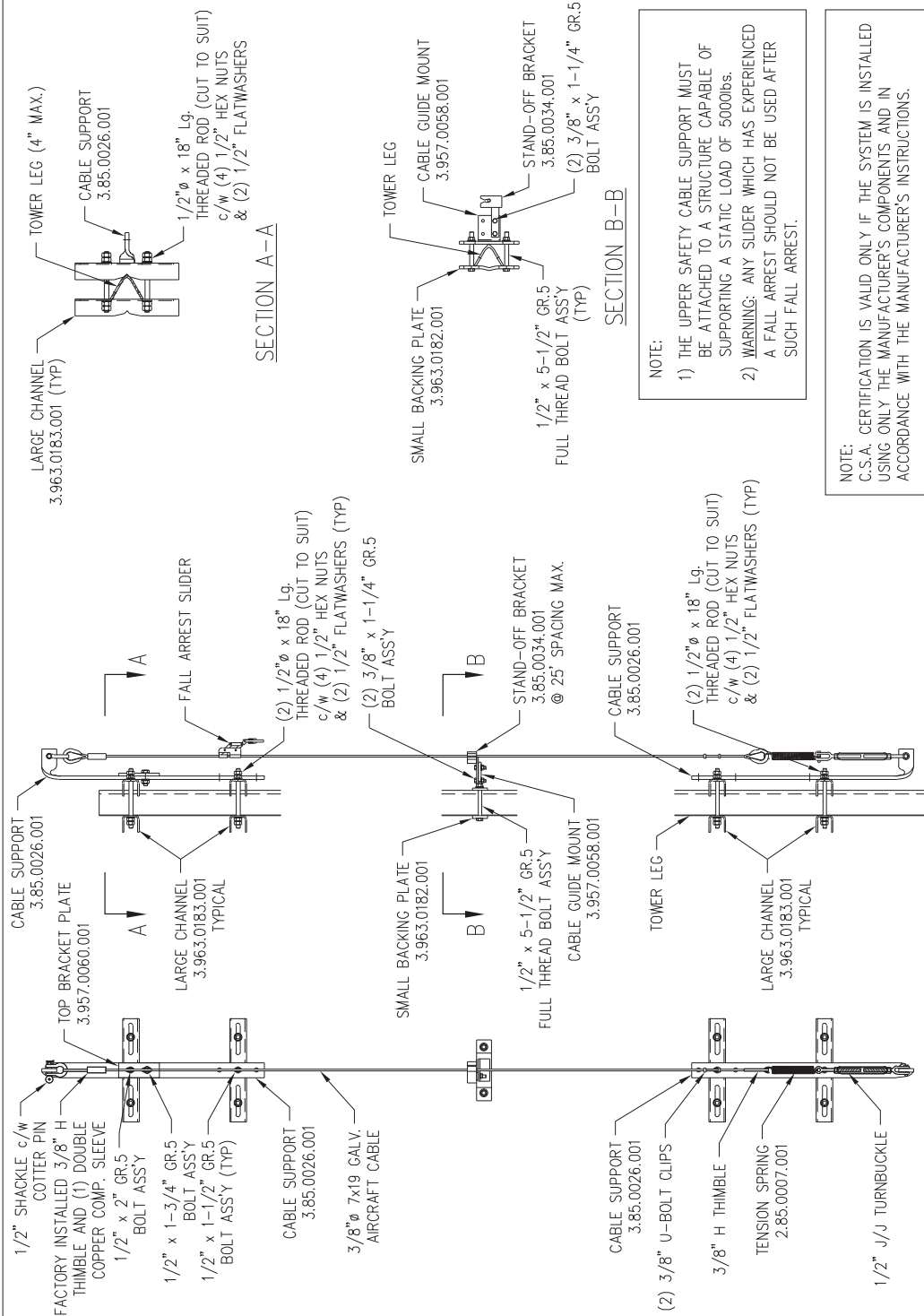
## INSTALLATION STEPS

## INSTALLATION STEPS

- 1) **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.
- 2) **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.
- 3) **CABLE:** Attach cable to top bracket using the shackle provided and install the cotter pin to prevent the bolt from unscrewing.
- 4) **LOWER BRACKET:** Install the lower bracket in the mount center and connect all hardware as shown in the drawing to the left.
- 5) **STAND-OFF BRACKETS:** Install stand-off brackets at Tighten the turnbuckle until the spring has  $\frac{1}{4}$ " to  $\frac{3}{8}$ " of deflection. 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  $\frac{3}{8}$ " cable.
- 6) **CABLE TERMINATION:** After the system is installed excess cable can be cut off.
- 7) **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

- 1) 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 valid if components are purchased or introduced outside of this kit.
- 2) If any part of the system has experienced a fall arrest, the system shall be removed from service, inspected and repaired before using.
- 3) 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.
- 4) 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.
- 5) 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  $30^\circ$  Celsius.



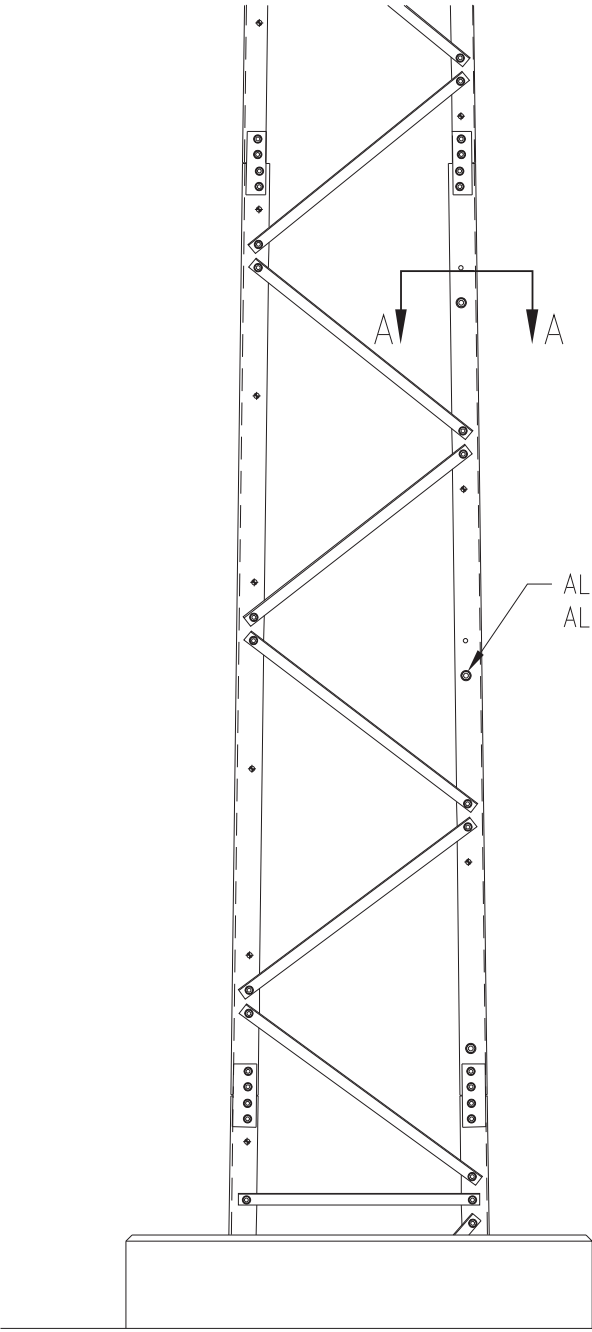
COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD.  
ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT  
WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.



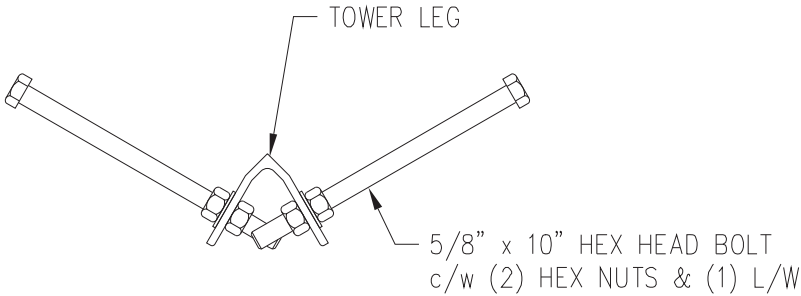
|                        |       |        |                  |        |
|------------------------|-------|--------|------------------|--------|
| CUSTOMER:              | SITE: | SCALE: |                  | 15,000 |
| DATE:                  | BY:   | MAW    | CHK:             | BCP    |
| 25 APR 03              |       |        |                  | APP:   |
| TITLE:                 |       |        | DRAWING NO.      |        |
| SUPERITAN SAFETY CABLE |       |        | 000001,620,00042 |        |



| 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'         |




ALTERNATE STEP PEGS  
ALONG TOWER LEG.




SECTION A-A

- NOTES:
- 1) WHEN USING AN ANTI-CLIMB SHIELD START STEP PEGS IN FIRST HOLE ABOVE SHIELD.

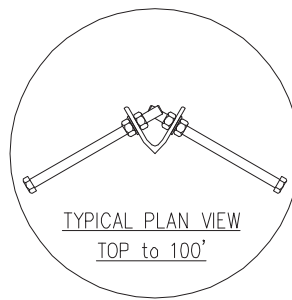
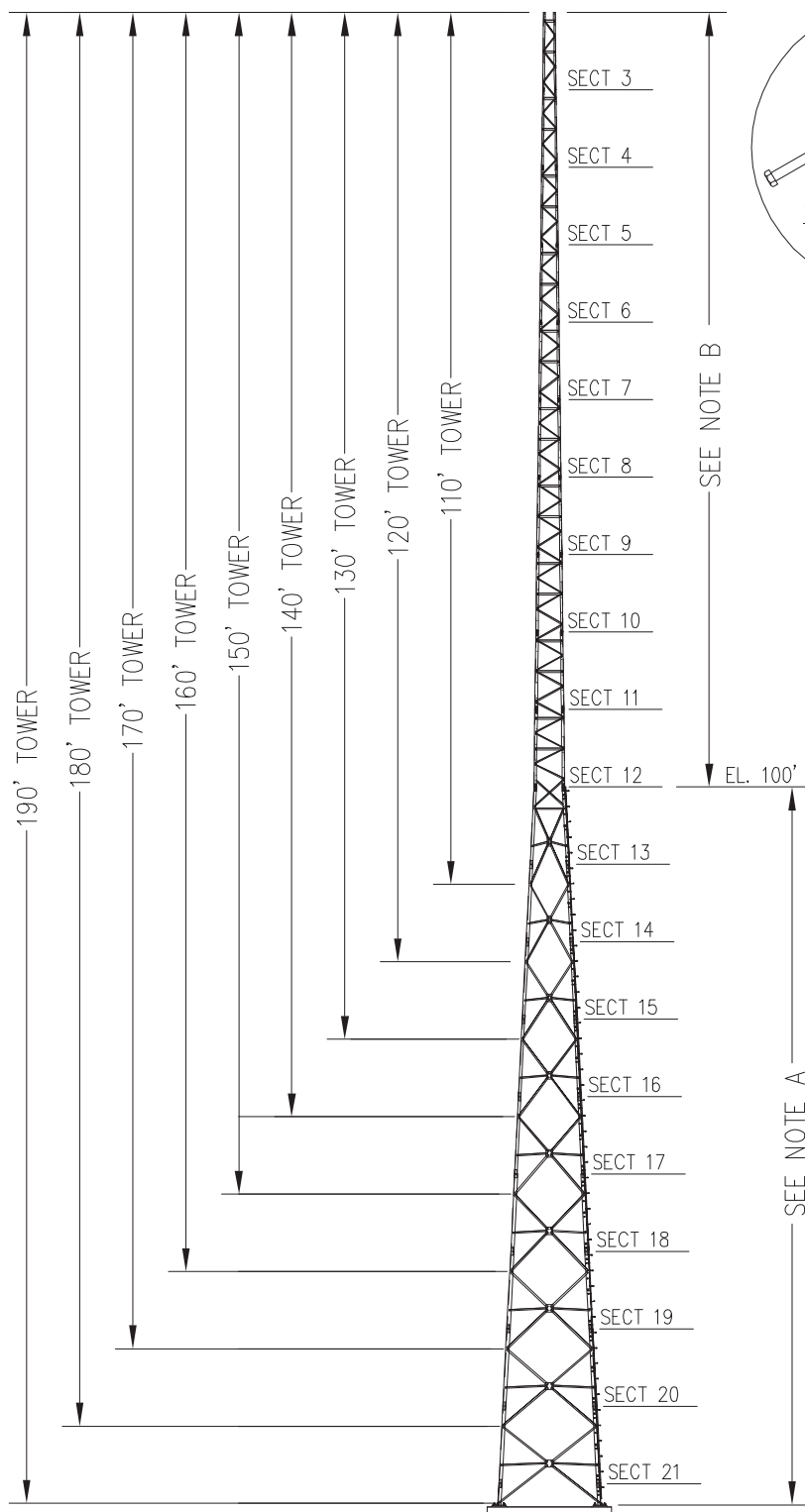
|  |  |  |  |      |          |          |             |      |
|--|--|--|--|------|----------|----------|-------------|------|
| COPYRIGHT HEREIN IS THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD. |  |  |  |      |          |          |             |      |
|  |  |  |  |      |          |          |             |      |
|  |  |  |  | REV. | REV. BY: | CHK. BY: | DESCRIPTION | DATE |



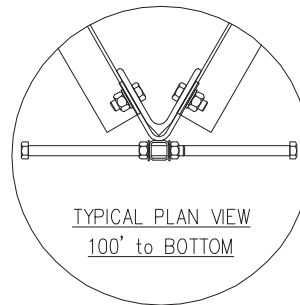


|                              |         |          |         |                             |  |
|------------------------------|---------|----------|---------|-----------------------------|--|
| CUSTOMER:                    |         | SITE:    |         | SCALE: 25.000               |  |
| DATE: 25 APR 03              | BY: MAW | CHK: BCP | APP: JB |                             |  |
| TITLE: STEP PEG INSTALLATION |         |          |         | DRAWING NO. 000001.620.0041 |  |





| 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.

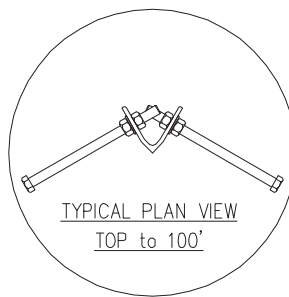
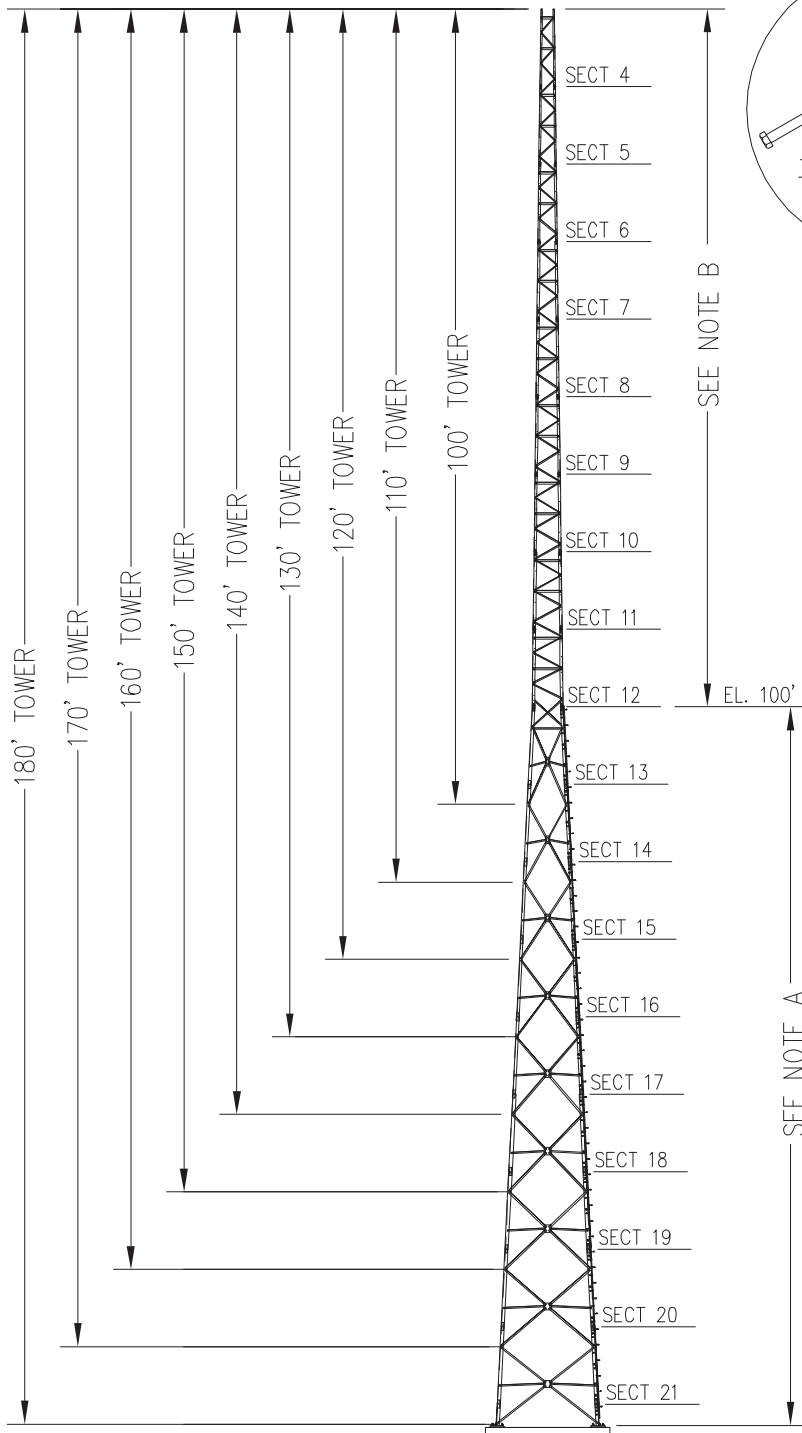
- 1) SECTIONS 3–12 UTILIZE STEP–PEGS THAT SIMPLY SCREW INTO PRE–PUNCHED 11/16" HOLES IN THE TOWER LEGS.
- 2) SECTIONS 13–21 UTILIZE STEP–PEG LADDER SECTIONS WHICH CLAMP ONTO THE TOWER LEG AT 2 POINTS.
- 3) THE VERY BOTTOM UTILIZES AN 18" LONG BASE STEP PEG LADDER THAT CLAMPS ONTO THE BASE FOOT WELDMENT.

CONFIDENTIAL:  
ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

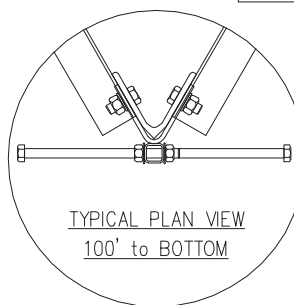
| A    | MRH      | JAG      | ISSUED FOR DISTRIBUTION | 22 JUL 05 |
|------|----------|----------|-------------------------|-----------|
| REV. | REV. BY: | CHK. BY: | DESCRIPTION             | DATE      |



|                                  |            |                            |            |                                |  |
|----------------------------------|------------|----------------------------|------------|--------------------------------|--|
| CUSTOMER:<br>STSS                |            | SITE:<br>S300 SERIES TOWER |            | SCALE:<br>300.000              |  |
| DATE:<br>19 NOV 04               | BY:<br>MAW | CHK:<br>JAG                | APP:<br>JB |                                |  |
| TITLE:<br>CLIMBING STEP–PEG KITS |            |                            |            | DRAWING NO.<br>000001.620.0110 |  |



TYPICAL PLAN VIEW  
TOP to 100'



TYPICAL PLAN VIEW  
100' to BOTTOM

| 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.

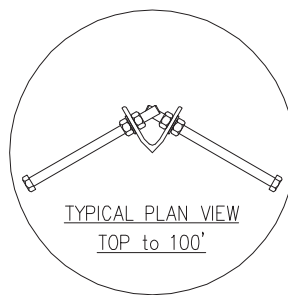
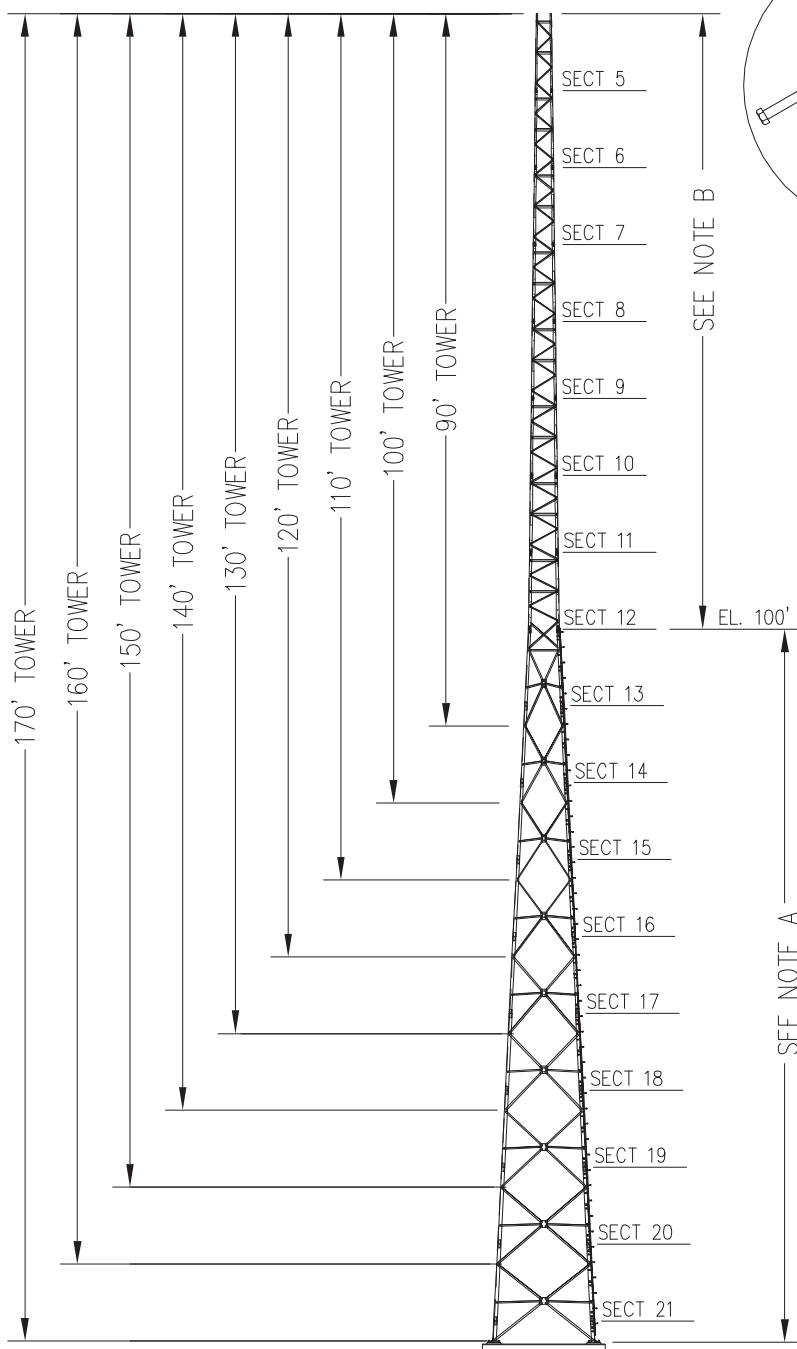
- 1) SECTIONS 4-12 UTILIZE STEP-PEGS THAT SIMPLY SCREW INTO PRE-PUNCHED 11/16" HOLES IN THE TOWER LEGS.
- 2) SECTIONS 13-21 UTILIZE STEP-PEG LADDER SECTIONS WHICH CLAMP ONTO THE TOWER LEG AT 2 POINTS.
- 3) THE VERY BOTTOM UTILIZES AN 18" LONG BASE STEP PEG LADDER THAT CLAMPS ONTO THE BASE FOOT WELDMENT.

CONFIDENTIAL:  
ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

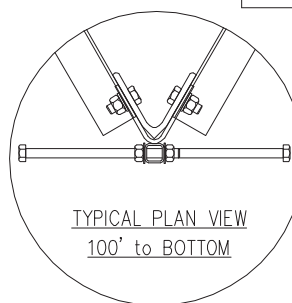
|      |          |          |                         |           |
|------|----------|----------|-------------------------|-----------|
| A    | MRH      | JAG      | ISSUED FOR DISTRIBUTION | 22 JUL 05 |
| REV. | REV. BY: | CHK. BY: | DESCRIPTION             | DATE      |



|                                  |  |                            |  |                                |  |
|----------------------------------|--|----------------------------|--|--------------------------------|--|
| CUSTOMER:<br>STSS                |  | SITE:<br>S400 SERIES TOWER |  | SCALE:<br>300.000              |  |
| DATE:<br>19 NOV 04               |  | BY:<br>MAW                 |  | CHK:<br>JAG                    |  |
|                                  |  |                            |  | APP:<br>JB                     |  |
| TITLE:<br>CLIMBING STEP-PEG KITS |  |                            |  | DRAWING NO.<br>000001.620.0111 |  |



| 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.

- 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.

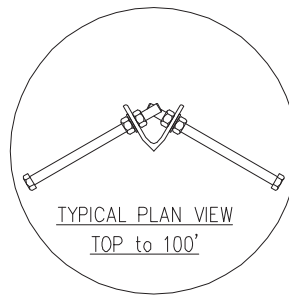
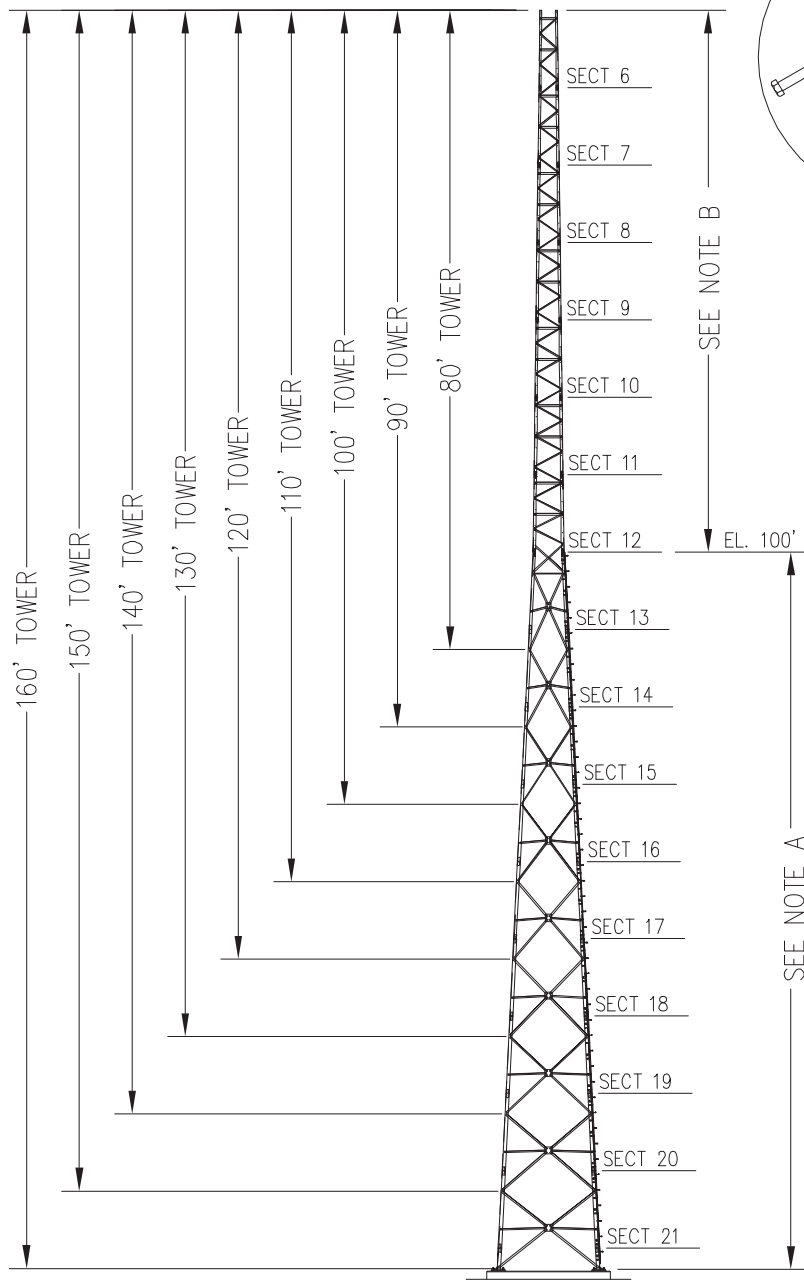
CONFIDENTIAL:  
ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF  
TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION,  
RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN  
CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

| A    | MRH      | JAG      | ISSUED FOR DISTRIBUTION | 22 JUL 05 |
|------|----------|----------|-------------------------|-----------|
| REV. | REV. BY: | CHK. BY: | DESCRIPTION             | DATE      |

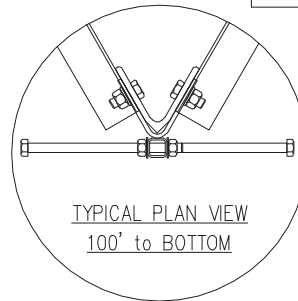
NOTES:



|                                  |                            |                                |
|----------------------------------|----------------------------|--------------------------------|
| CUSTOMER:<br>STSS                | SITE:<br>S500 SERIES TOWER | SCALE:<br>300.000              |
| DATE:<br>19 NOV 04               | BY:<br>MAW                 | CHK:<br>JAG                    |
| TITLE:<br>CLIMBING STEP-PEG KITS | APP:<br>JB                 | DRAWING NO.<br>000001.620.0112 |



| 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.

- 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.

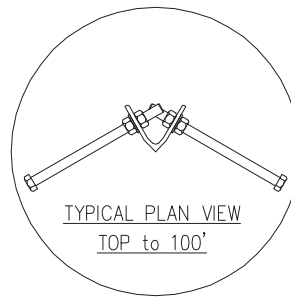
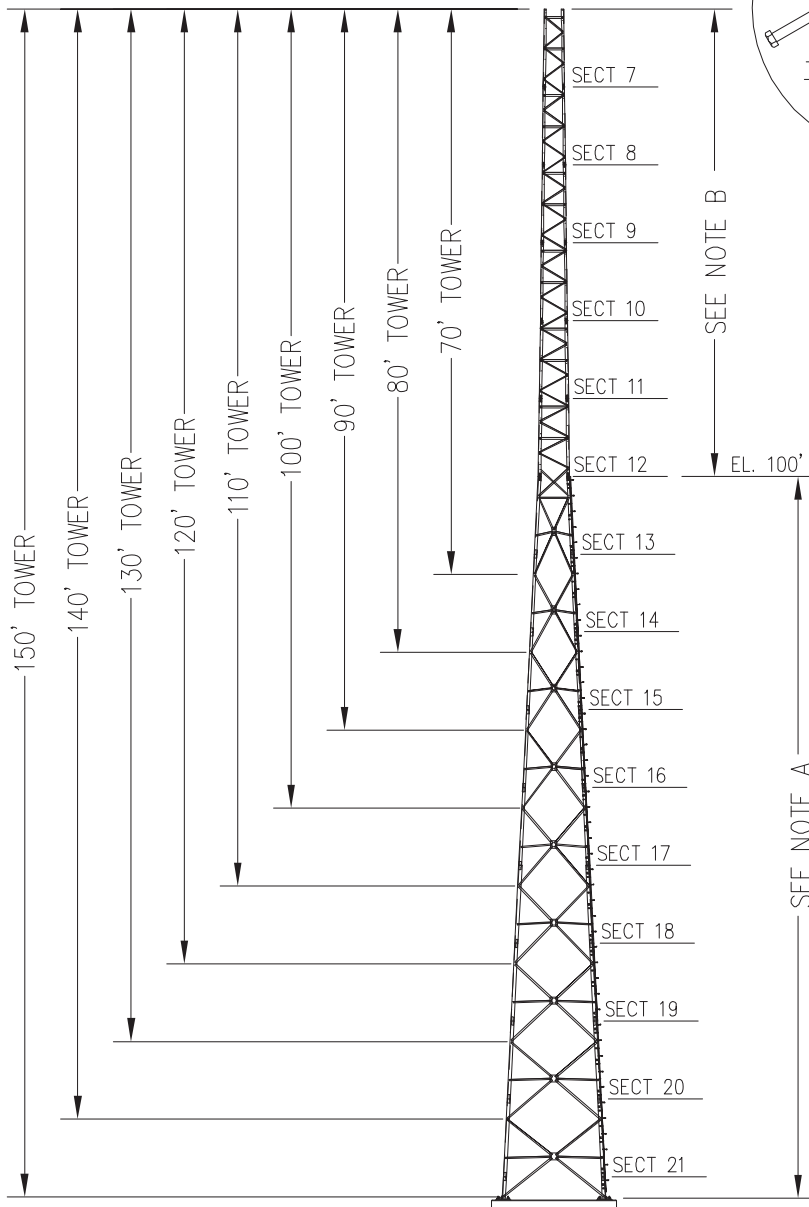
CONFIDENTIAL:  
ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

|      |          |          |                         |           |
|------|----------|----------|-------------------------|-----------|
| A    | MRH      | JAG      | ISSUED FOR DISTRIBUTION | 22 JUL 05 |
| REV. | REV. BY: | CHK. BY: | DESCRIPTION             | DATE      |

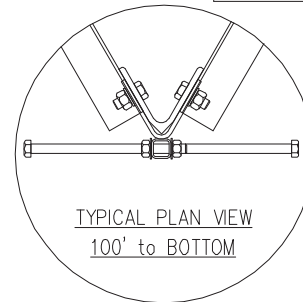
NOTES:



|                                  |  |                            |  |                                |  |
|----------------------------------|--|----------------------------|--|--------------------------------|--|
| CUSTOMER:<br>STSS                |  | SITE:<br>S600 SERIES TOWER |  | SCALE:<br>300.000              |  |
| DATE:<br>19 NOV 04               |  | BY:<br>MAW                 |  | CHK:<br>JAG                    |  |
|                                  |  |                            |  | APP:<br>JB                     |  |
| TITLE:<br>CLIMBING STEP-PEG KITS |  |                            |  | DRAWING NO.<br>000001.620.0113 |  |



| 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.

- 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.

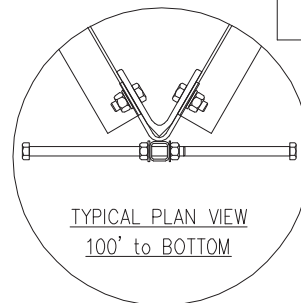
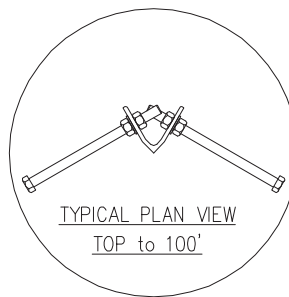
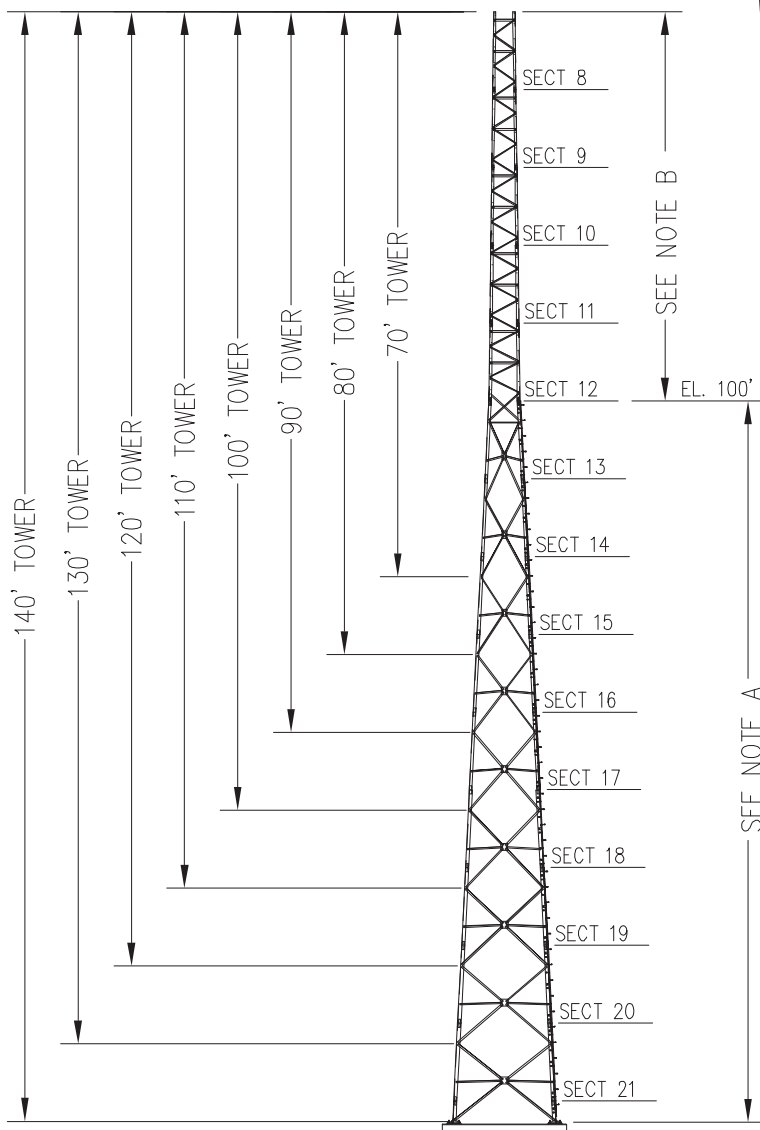
CONFIDENTIAL:  
ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

|      |          |          |                         |           |
|------|----------|----------|-------------------------|-----------|
| A    | MRH      | JAG      | ISSUED FOR DISTRIBUTION | 22 JUL 05 |
| REV. | REV. BY: | CHK. BY: | DESCRIPTION             | DATE      |

NOTES:



|                                  |  |                            |  |                                |  |
|----------------------------------|--|----------------------------|--|--------------------------------|--|
| CUSTOMER:<br>STSS                |  | SITE:<br>S700 SERIES TOWER |  | SCALE:<br>300.000              |  |
| DATE:<br>19 NOV 04               |  | BY:<br>MAW                 |  | CHK:<br>JAG                    |  |
|                                  |  |                            |  | APP:<br>JB                     |  |
| TITLE:<br>CLIMBING STEP-PEG KITS |  |                            |  | DRAWING NO.<br>000001.620.0114 |  |



| 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.

- 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.

CONFIDENTIAL:  
ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

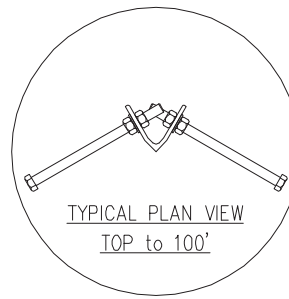
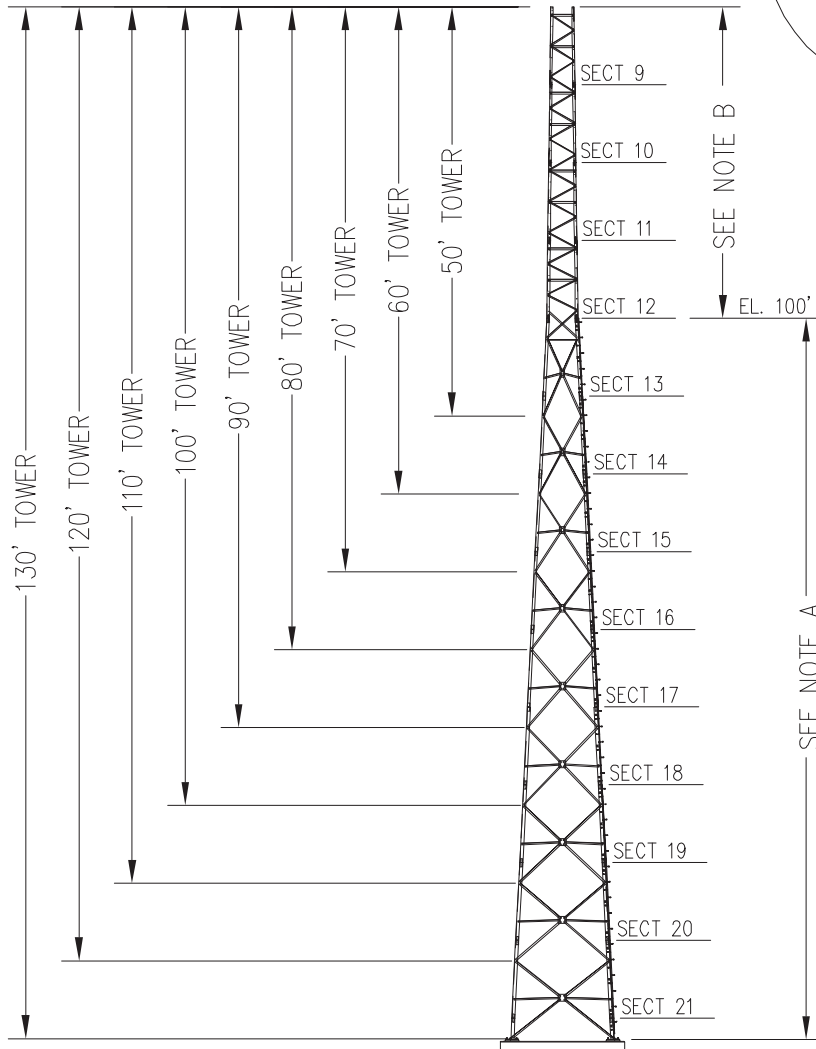
|      |          |          |                         |           |
|------|----------|----------|-------------------------|-----------|
| A    | MRH      | JAG      | ISSUED FOR DISTRIBUTION | 22 JUL 05 |
| REV. | REV. BY: | CHK. BY: | DESCRIPTION             | DATE      |

NOTES:

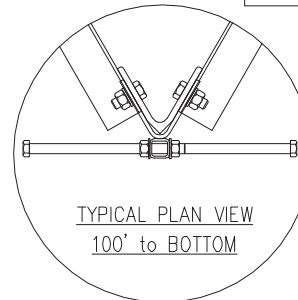


|                                  |  |                            |  |                                |  |
|----------------------------------|--|----------------------------|--|--------------------------------|--|
| CUSTOMER:<br>STSS                |  | SITE:<br>S800 SERIES TOWER |  | SCALE:<br>300.000              |  |
| DATE:<br>19 NOV 04               |  | BY:<br>MAW                 |  | CHK:<br>JAG                    |  |
|                                  |  |                            |  | APP:<br>JB                     |  |
| TITLE:<br>CLIMBING STEP-PEG KITS |  |                            |  | DRAWING NO.<br>000001.620.0115 |  |





| 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.

- 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.

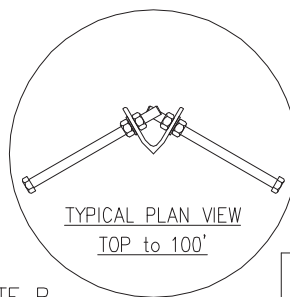
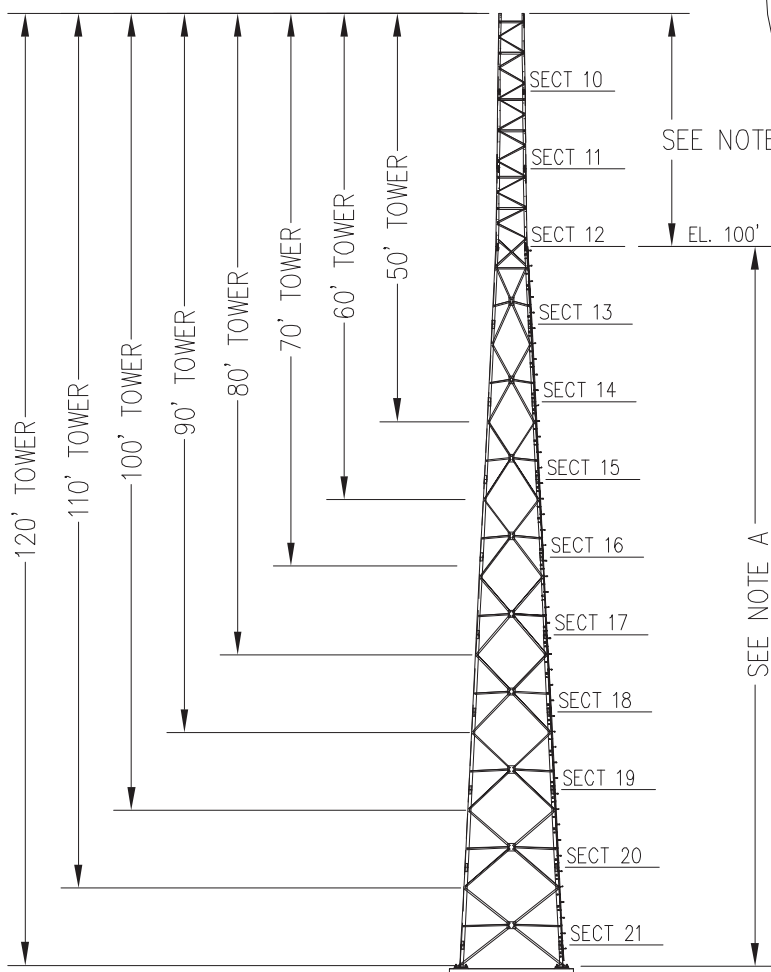
CONFIDENTIAL:  
ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

|      |          |          |                         |           |
|------|----------|----------|-------------------------|-----------|
| A    | MRH      | JAG      | ISSUED FOR DISTRIBUTION | 22 JUL 05 |
| REV. | REV. BY: | CHK. BY: | DESCRIPTION             | DATE      |

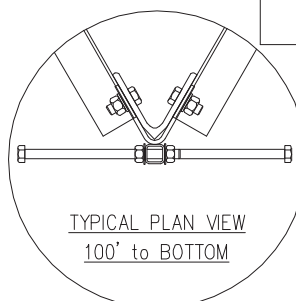
NOTES:



|                                  |  |                            |  |                                |  |
|----------------------------------|--|----------------------------|--|--------------------------------|--|
| CUSTOMER:<br>STSS                |  | SITE:<br>S900 SERIES TOWER |  | SCALE:<br>300.000              |  |
| DATE:<br>19 NOV 04               |  | BY:<br>MAW                 |  | CHK:<br>JAG                    |  |
|                                  |  |                            |  | APP:<br>JB                     |  |
| TITLE:<br>CLIMBING STEP-PEG KITS |  |                            |  | DRAWING NO.<br>000001.620.0116 |  |



| 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.

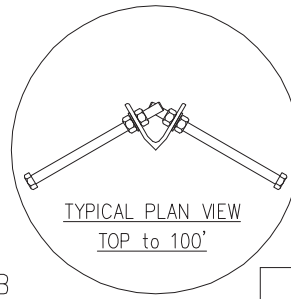
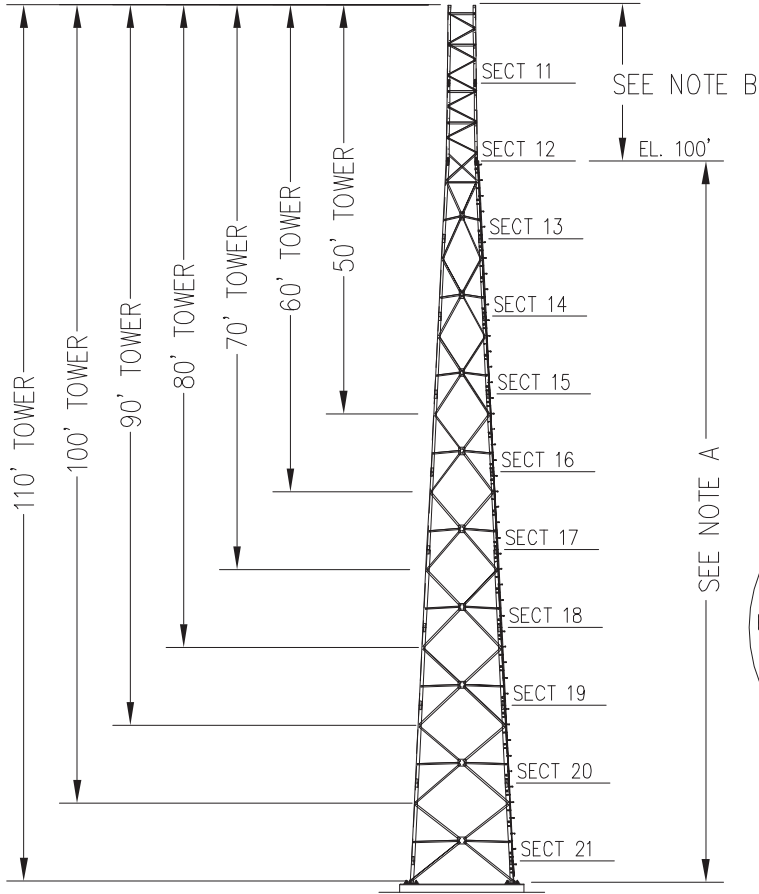
CONFIDENTIAL:  
ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

|      |          |          |                         |           |
|------|----------|----------|-------------------------|-----------|
| A    | MRH      | JAG      | ISSUED FOR DISTRIBUTION | 22 JUL 05 |
| REV. | REV. BY: | CHK. BY: | DESCRIPTION             | DATE      |

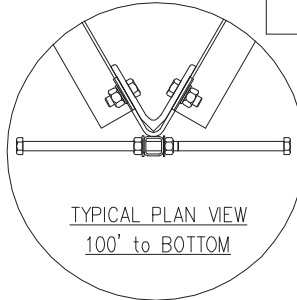
NOTES:



|                                  |  |                             |  |                                |  |
|----------------------------------|--|-----------------------------|--|--------------------------------|--|
| CUSTOMER:<br>STSS                |  | SITE:<br>S1000 SERIES TOWER |  | SCALE:<br>300.000              |  |
| DATE:<br>19 NOV 04               |  | BY:<br>MAW                  |  | CHK:<br>JAG                    |  |
|                                  |  |                             |  | APP:<br>JB                     |  |
| TITLE:<br>CLIMBING STEP-PEG KITS |  |                             |  | DRAWING NO.<br>000001.620.0117 |  |



| 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.

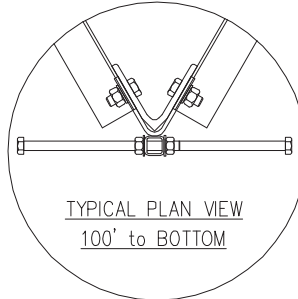
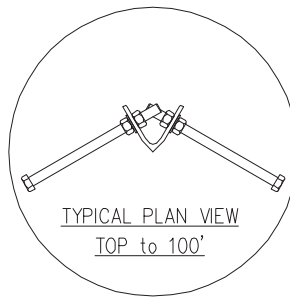
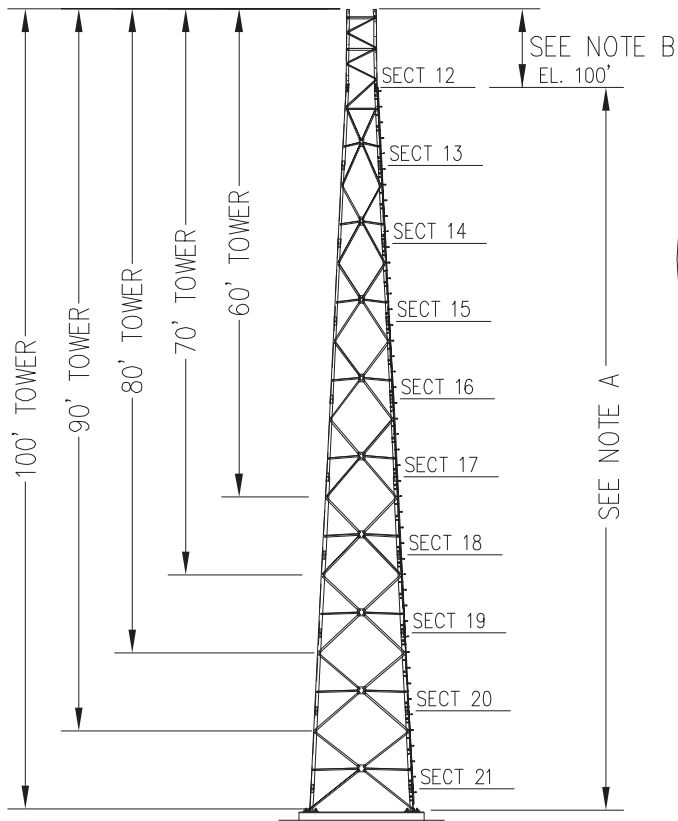
CONFIDENTIAL:  
ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

|      |          |          |                         |           |
|------|----------|----------|-------------------------|-----------|
| A    | MRH      | JAG      | ISSUED FOR DISTRIBUTION | 22 JUL 05 |
| REV. | REV. BY: | CHK. BY: | DESCRIPTION             | DATE      |

NOTES:



|                                  |  |                             |  |                                |  |
|----------------------------------|--|-----------------------------|--|--------------------------------|--|
| CUSTOMER:<br>STSS                |  | SITE:<br>S1100 SERIES TOWER |  | SCALE:<br>300.000              |  |
| DATE:<br>19 NOV 04               |  | BY:<br>MAW                  |  | CHK:<br>JAG                    |  |
|                                  |  |                             |  | APP:<br>JB                     |  |
| TITLE:<br>CLIMBING STEP-PEG KITS |  |                             |  | DRAWING NO.<br>000001.620.0118 |  |



| 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 |

#### 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 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.

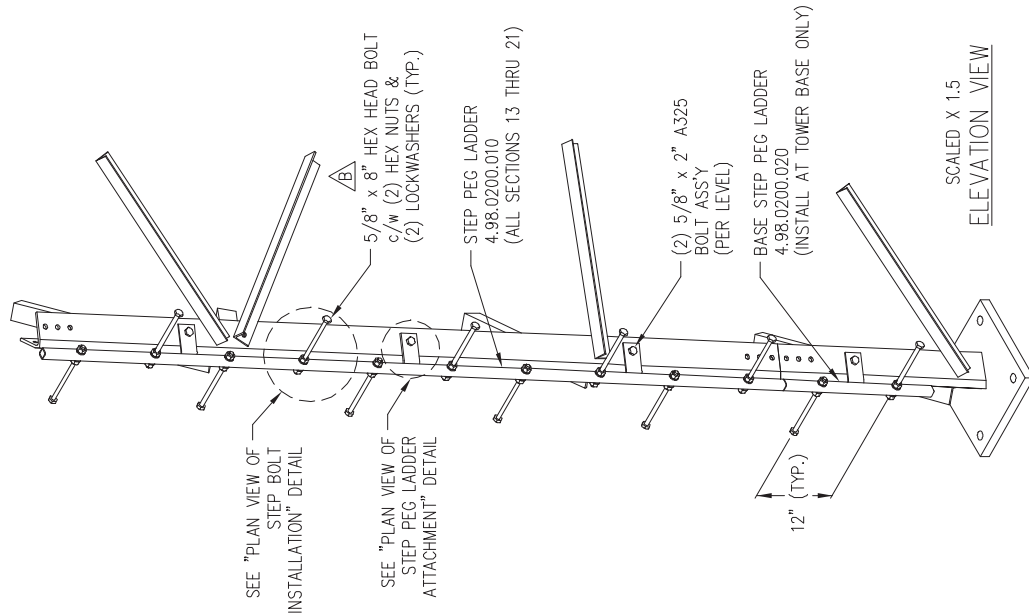
CONFIDENTIAL:  
ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON MANUFACTURING COMPANY LTD. ALL DUPLICATION, RECORDING, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.

| A    | MRH      | JAG      | ISSUED FOR DISTRIBUTION | 22 JUL 05 |
|------|----------|----------|-------------------------|-----------|
| REV. | REV. BY: | CHK. BY: | DESCRIPTION             | DATE      |

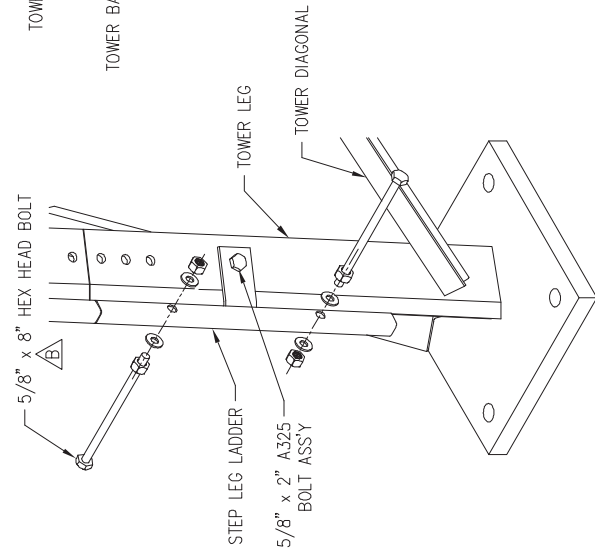
NOTES:



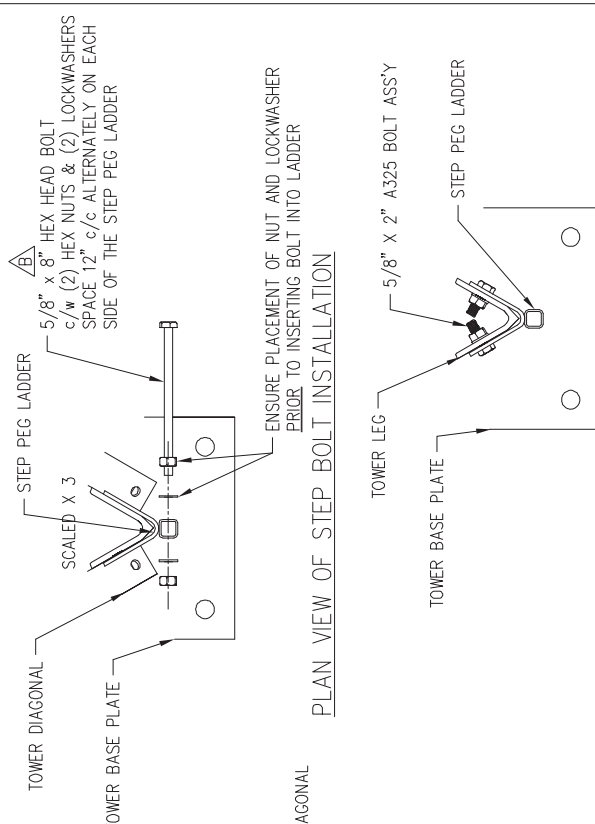
|                                  |  |                             |  |                                |  |
|----------------------------------|--|-----------------------------|--|--------------------------------|--|
| CUSTOMER:<br>STSS                |  | SITE:<br>S1200 SERIES TOWER |  | SCALE:<br>300.000              |  |
| DATE:<br>19 NOV 04               |  | BY:<br>MAW                  |  | CHK:<br>JAG                    |  |
|                                  |  |                             |  | APP:<br>JB                     |  |
| TITLE:<br>CLIMBING STEP-PEG KITS |  |                             |  | DRAWING NO.<br>000001.620.0119 |  |



SCALED X 1.5  
ELEVATION VIEW



CLOSE-UP OF STEP BOLT AND TOWER CONNECTION



PLAN VIEW OF STEP BOLT INSTALLATION

PLAN VIEW OF STEP PEG LADDER ATTACHMENT

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.

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

| 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   |

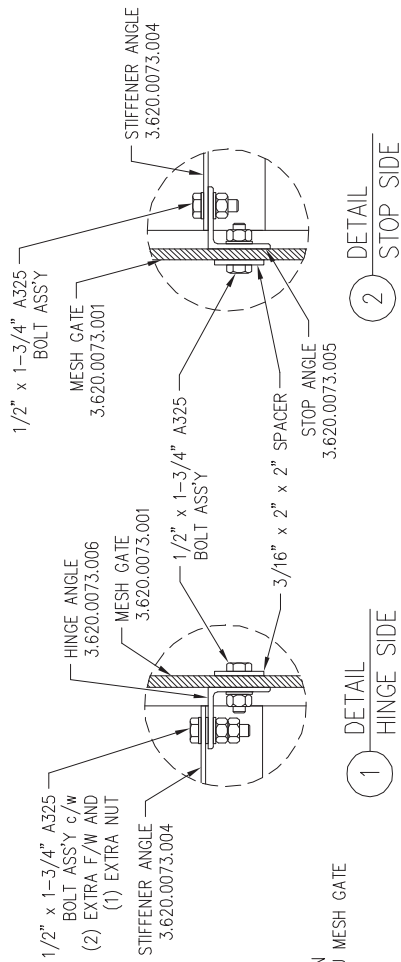
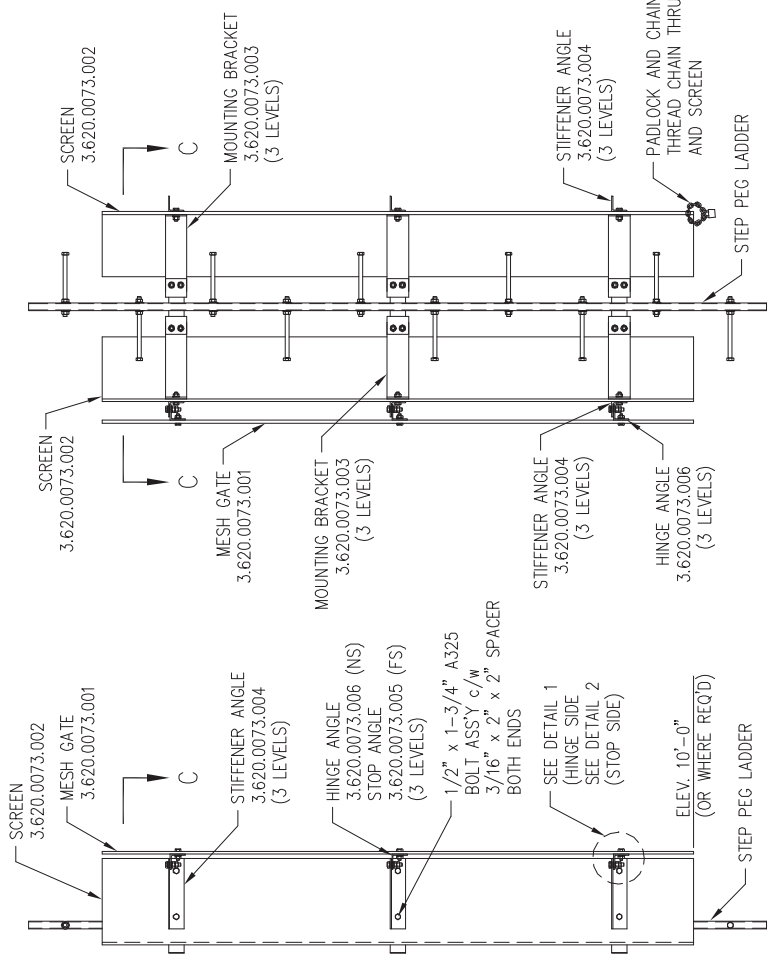
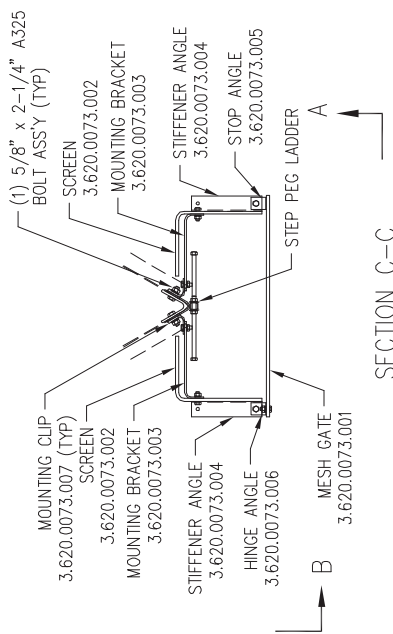
CONFIDENTIAL: ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRYLON MANUFACTURING LTD. NO REPRODUCTION, REUSE, OR DISCLOSURE OF THIS INFORMATION OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRYLON MANUFACTURING COMPANY LTD.



|           |  |                |  |                          |  |
|-----------|--|----------------|--|--------------------------|--|
| CUSTOMER: |  | SITE:          |  | SCALE:                   |  |
| B MRH TLD |  | SUPERITAN S.S. |  | 25.000                   |  |
| A MRH JAG |  | DATE:          |  | 24 JAN 06                |  |
| REV. BY:  |  | BY:            |  | 05 JUL 04                |  |
| REV. BY:  |  | CHK:           |  | JAG                      |  |
| REV. BY:  |  | APP:           |  | JB                       |  |
| REV. BY:  |  | TITLE:         |  | STEP PEG LADDER ASSEMBLY |  |
| REV. BY:  |  | DRAWING NO.    |  | 000001.620.0100          |  |







SECTION B-B

SECTION A-A  
(MESH GATE SHOWN OPEN)

- NOTES:
1. ALL BOLTS ARE 1/2" x 1-1/2" 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  |  |
| CONFIDENTIAL: ALL INTELLECTUAL PROPERTY RIGHTS HEREIN ARE THE PROPERTY OF TRILON MANUFACTURING COMPANY LTD. ALL DISCUSSION, REVISIONS, DISCLOSURE OR USE IS PROHIBITED WITHOUT WRITTEN CONSENT OF TRILON MANUFACTURING COMPANY LTD. |  |



|                                 |          |                             |         |
|---------------------------------|----------|-----------------------------|---------|
| CUSTOMER: SUPERITAN S.S.        |          | SCALE: 20.000               |         |
| DATE: 05 JUL 04                 | BY: MAW  | CHK: JAG                    | APP: JB |
| TITLE: ANTI CLIMB MESH ASSEMBLY |          | DRAWING NO. 000001.620.0099 |         |
| REV.                            | CHK. BY: | DESCRIPTION                 |         |
|                                 |          |                             |         |
|                                 |          |                             |         |
|                                 |          |                             |         |
|                                 |          |                             |         |



ISO 9001: 2000 Registered

21 SOUTH FIELD DRIVE  
P.O. BOX 186  
ELMIRA, ON  
N3B 2Z6  
CANADA

TEL: (519) 669-5421  
FAX: (519) 669-4187  
WEBSITE: [www.trylon.com](http://www.trylon.com)  
E-MAIL: [info@trylon.com](mailto:info@trylon.com)