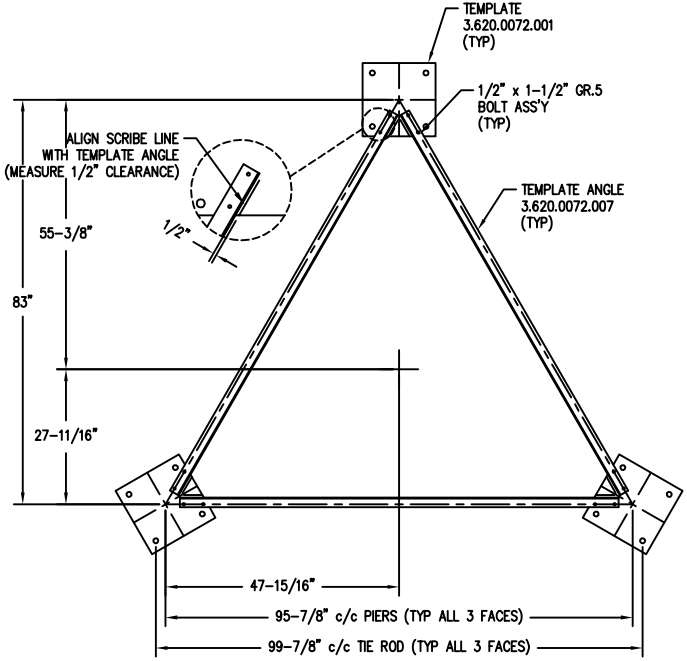

REV.	BY: REV.	BY: CHK.	DESCRIPTION	DATE

REFERENCE DRAWINGS:

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Trylon

DRAWING NO. 000001.620.0104

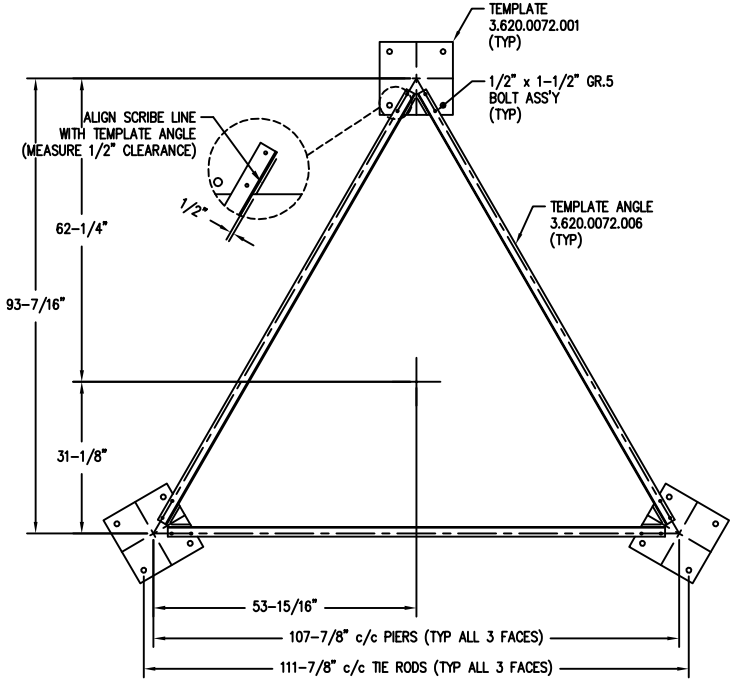
CUSTOMER: | SITE: | SCALE: 20.000

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

TITLE: SECTION 16 TEMPLATE

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

KIT #4.79.0000.517



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

REFERENCE DRAWINGS:

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Trylon

DRAWING NO. 000001.620.0105

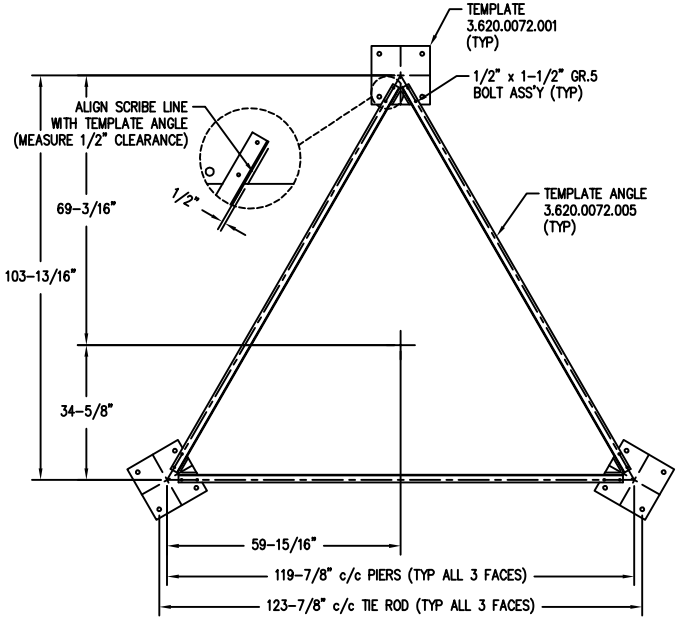
CUSTOMER:	SITE:	SCALE: 20.000

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

TITLE: SECTION 17 TEMPLATE

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

KIT #4.79.0000.518



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

REFERENCE DRAWINGS:

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Trylon

DRAWING NO. 000001.620.0106

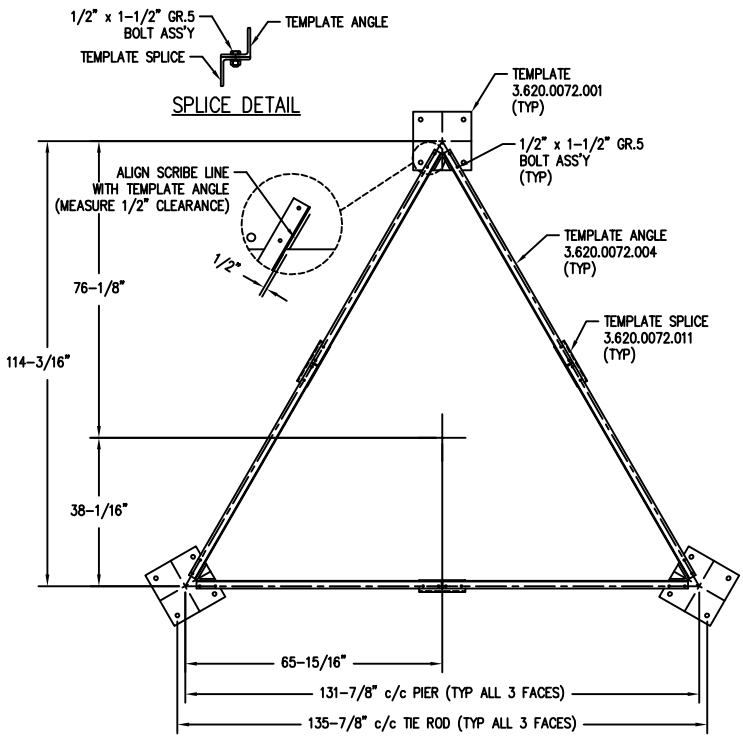
CUSTOMER:	SITE:	SCALE: 25.000

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

TITLE: SECTION 18 TEMPLATE

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

KIT #4.79.0000.519



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

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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Trylon

DRAWING NO. 000001.620.0107

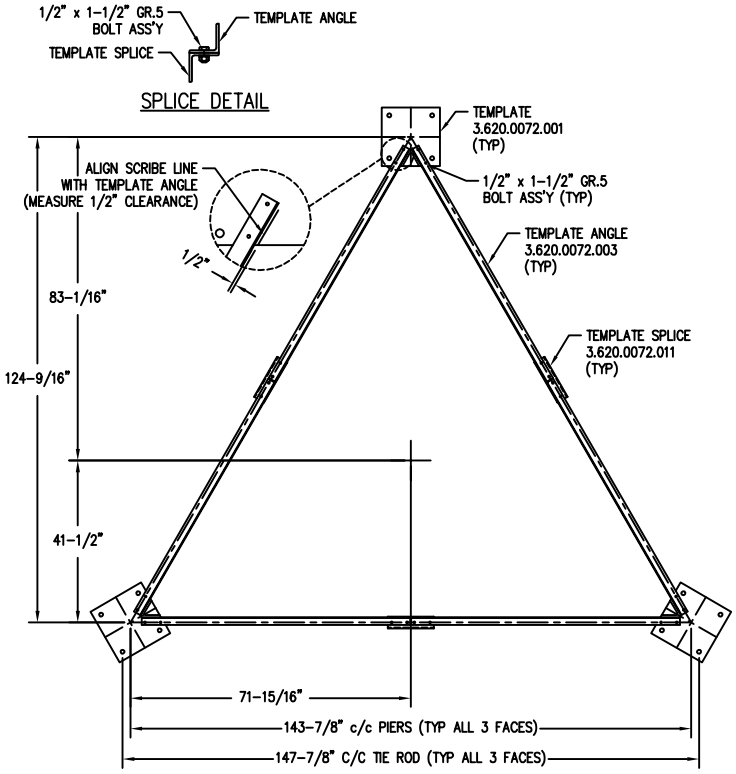
CUSTOMER:	SITE:	SCALE: 25.000

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

TITLE: SECTION 19 TEMPLATE

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

KIT #4.79.0000.520



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

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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Trylon

DRAWING NO. 000001.620.0108

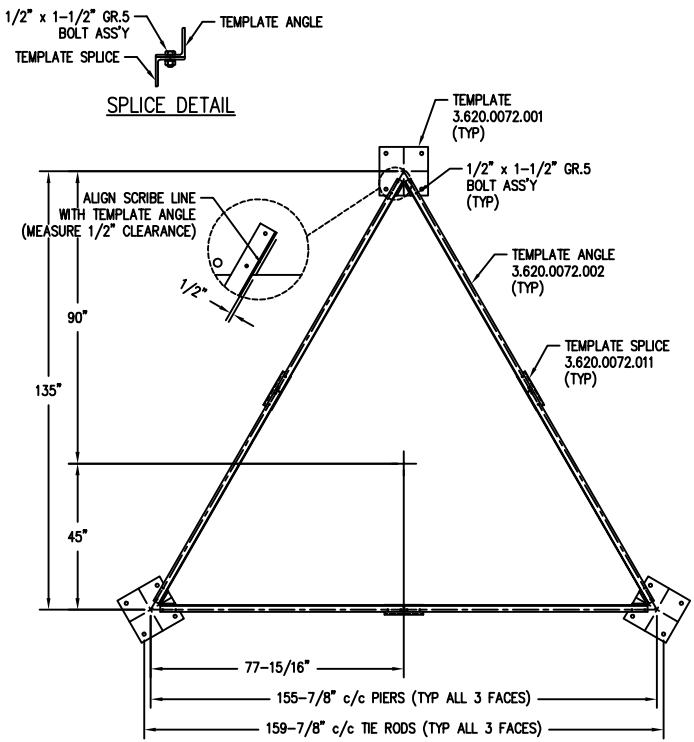
CUSTOMER: | SITE: | SCALE: 25.000

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

TITLE: SECTION 20 TEMPLATE

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

KIT #4.79.0000.521



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

REFERENCE DRAWINGS:

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Trylon

DRAWING NO. 000001.620.0109

CUSTOMER: | SITE: | SCALE: 30.000

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

TITLE: SECTION 21 TEMPLATE ASS'Y

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

KIT #4.79.0000.522

SUPERTITAN® - Foundation Drawings for NORMAL DRY SOIL

EIA Foundation Notes ……51
Regular Foundation-NDS / Section 2-12HD ……52
Single Pad/Pier & Tie Rod Installation / Section 14-21 ……53-54
Pad/Pier Installation / Section 18-21 ……55
EIA Surface Raft Installation / Section 14-21 ……56
CSA Foundation Notes & Drawings ……57-58

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

FOUNDATION NOTES:

GENERAL:

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

CONCRETE:

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

REINFORCEMENT:

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

BACKFILLING:

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

STANDARDS:

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

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

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

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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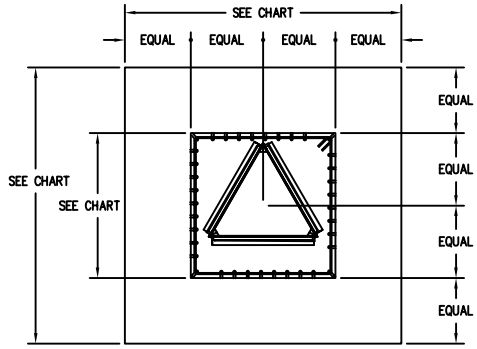
Trylon

DRAWING NO. 000001.620.0051

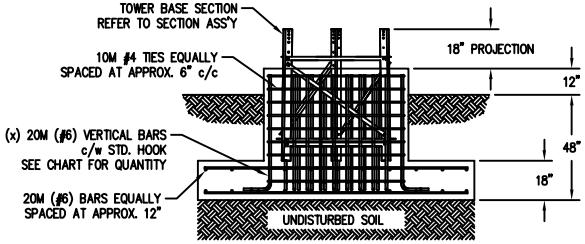
CUSTOMER:	SITE:	SCALE: 1.000
DATE: 24 APR 03	BY: MAW	CHK: BCP	APP: JB

TITLE: EIA FOUNDATION NOTES

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



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



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 CONRETE STRENGTH 3600 psi

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

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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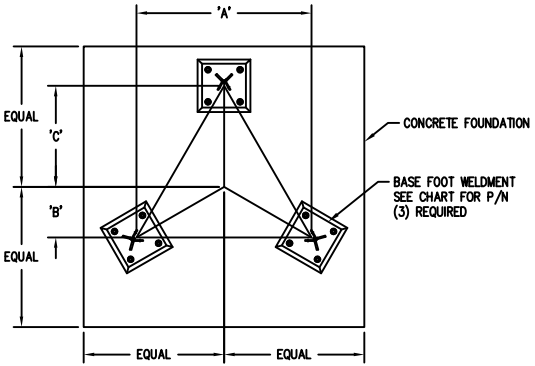
DRAWING NO. 000001.620.0050

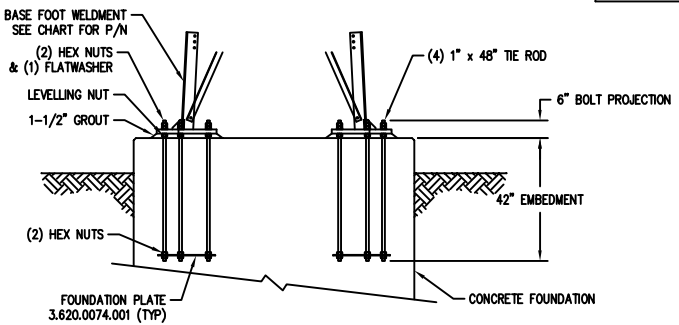
CUSTOMER: | SITE: | SCALE: 40.000

DATE: 28 MAR 06 | BY: MRH | CHK: | APP:

TITLE: EIA – REGULAR FND – NDS



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



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

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

REFERENCE DRAWINGS:

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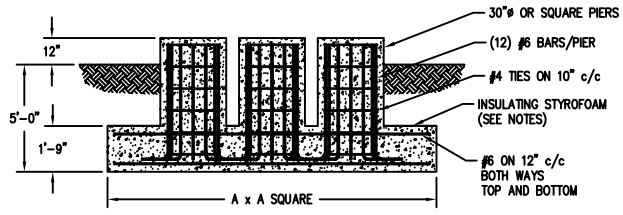
Trylon

DRAWING NO. 000001.620.0067

CUSTOMER:	SITE:	SCALE: 30.000
DATE: 10 JUN 04	BY:	CHK: APP:

TITLE: TIE ROD ANCHOR INSTALLATION

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)



(0" OFFSET TOWER CENTRE TO FOUNDATION CENTRE)

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.

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

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

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

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

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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Trylon

DRAWING NO. 000001.620.0120

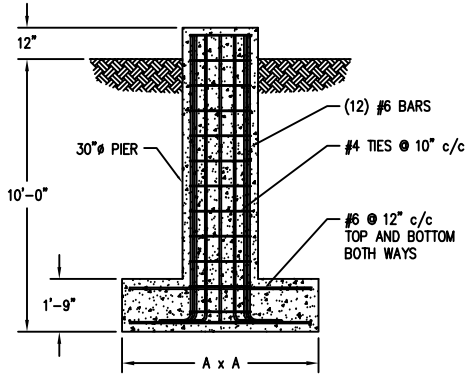
CUSTOMER: | SITE: | SCALE: 40.000

DATE: 28 MAR 06 | BY: MRH | CHK: | APP:

TITLE: EIA SINGLE PAD 3 PIER NDS

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

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



FOUNDATION NOTES:

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

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

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

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

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

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

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

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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Trylon

DRAWING NO. 000001.620.0126

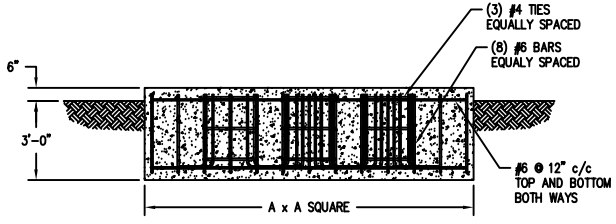
CUSTOMER: | SITE: | SCALE: NTS

DATE: 28 MAR 06 | BY: MRH | CHK: | APP:

TITLE: EIA PAD & PIER – NDS

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

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



(0" OFFSET TOWER CENTRE TO FOUNDATION CENTRE)

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 BOTTOM	A	CUBIC YARDS of CONCRETE TOTAL	OVERTURNING MOMENT (KIPSFT)	SHEAR (KIPS)	AXIAL (KIPS)
#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.

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

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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Trylon

DRAWING NO. 000001.620.0124

CUSTOMER: | SITE: | SCALE: 40.000

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

TITLE: EIA SURFACE RAFT NDS

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 ± 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.

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

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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Trylon

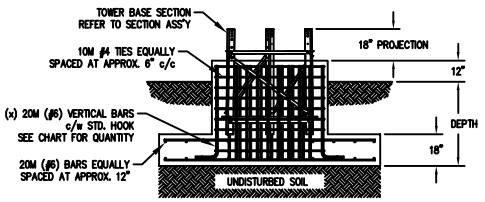
DRAWING NO. 000001.620.0053

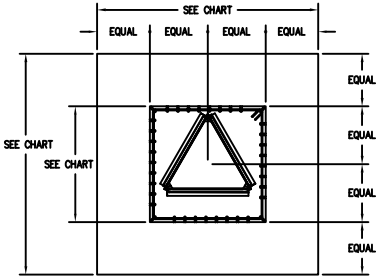
CUSTOMER:	SITE:	SCALE: 1.000

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

TITLE: CSA FOUNDATION NOTES

SUPER TITAN SS CSA FOUNDATION DEISGN – BASE SECTION #2 – #12HD





USE WHEN FROST DEPTH IS LESS THAN OR EQUAL TO 4'-0"

TOWER BASE WIDTH	PAD WIDTH	PIER SIZE	DEPTH	VERT. PIER BAR QTY.	CUBIC YARDS OF CONCRETE		
					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"

TOWER BASE WIDTH	PAD WIDTH	PIER SIZE	DEPTH	VERT. PIER BAR QTY.	CUBIC YARDS OF CONCRETE		
					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"

TOWER BASE WIDTH	PAD WIDTH	PIER SIZE	DEPTH	VERT. PIER BAR QTY.	CUBIC YARDS OF CONCRETE		
					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.

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

REFERENCE DRAWINGS:

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Trylon

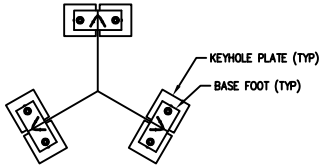
DRAWING NO. 000001.620.0052

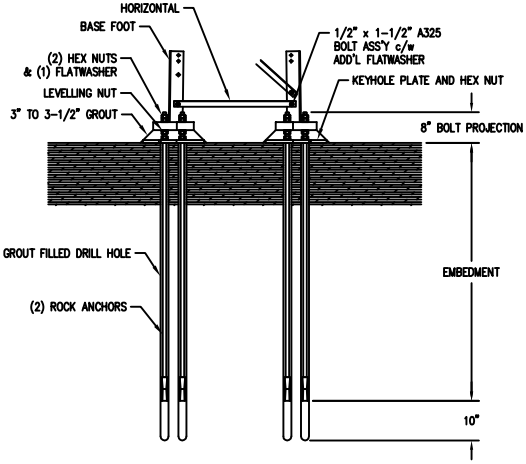
CUSTOMER:	SITE:	SCALE: 30.000

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

TITLE: CSA FOUNDATION DETAILS

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





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

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

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

PROCEDURE:

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

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

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

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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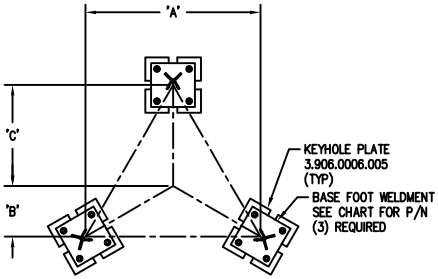
Trylon

DRAWING NO. 000001.620.0057

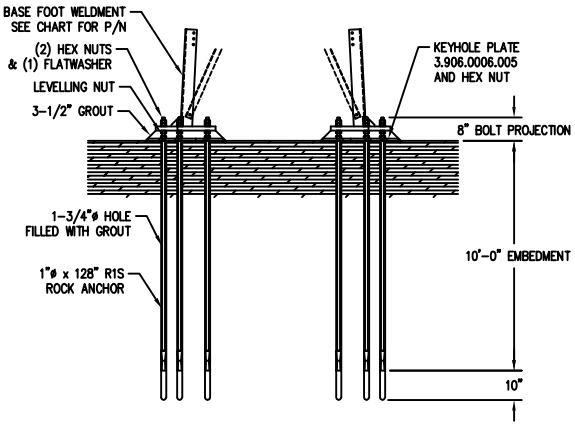
CUSTOMER: | SITE: | SCALE: 20.000

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

TITLE: ROCK BOLT SECT. #2-12HD



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



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

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

PROCEDURE:

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

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

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

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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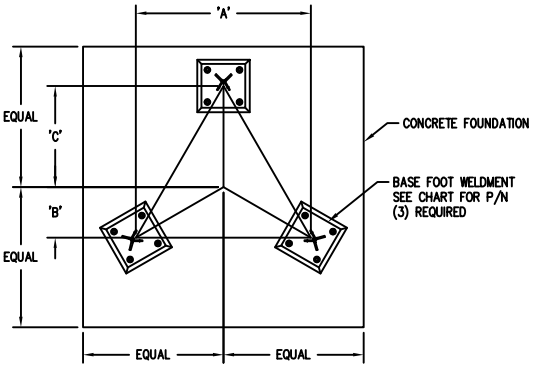
Trylon

DRAWING NO. 000001.620.0069

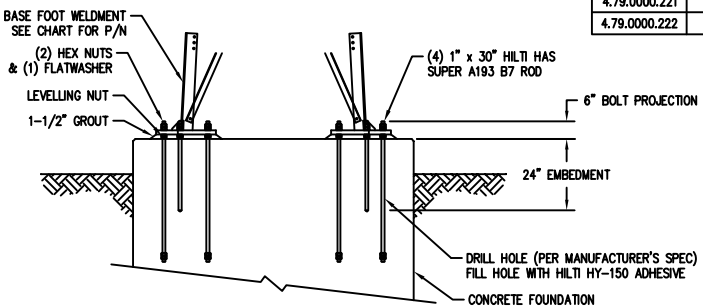
CUSTOMER: | SITE: | SCALE: 30.000

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

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



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



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.

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

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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Trylon

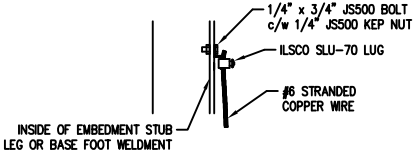
DRAWING NO. 000001.620.0068

CUSTOMER:	SITE:	SCALE: 30.000

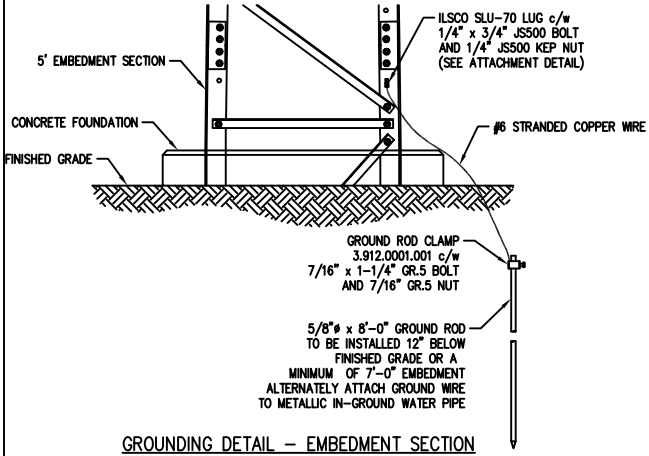
DATE: 10 JUN 04	BY: MAW	CHK: JAG	APP: JB

TITLE: HILTI BOLT INSTALLATION

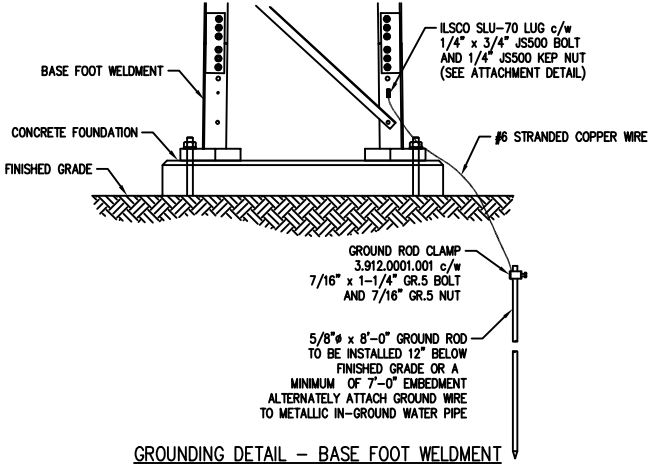
SUPERTITAN BASIC GROUNDING KIT P/N 4.91.0103.000		
QUANTITY	PART NO.	DESCRIPTION
1	3.912.0006.001	5/8"ø x 8' Lg. GROUND ROD
3	1301404	#6 B.S.C. WIRE
1	1302090	ILSCO SLU-70 LUG
1	1205011	1/4" x 3/4" JS500 BOLT
1	1205020	1/4" JS500 KEP NUT
1	3.912.0001.001	GROUND ROD CLAMP
1	1201091	7/16" x 1-1/4" GR.5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



CLAMP ATTACHMENT



GROUNDING DETAIL – EMBEDMENT SECTION



GROUNDING DETAIL – BASE FOOT WELDMENT

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

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

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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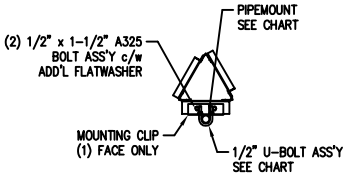
Trylon

DRAWING NO. 000001.620.0030

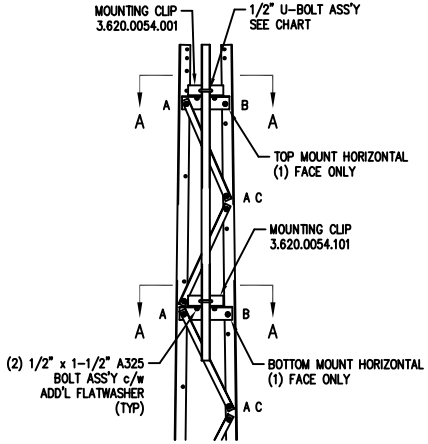
CUSTOMER: | SITE: | SCALE: 15.000

DATE: 10 APR 03 | BY: | CHK: | APP:

TITLE: GROUNDING DETAIL



SECTION A-A



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

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

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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Trylon

DRAWING NO. 000001.620.0033

CUSTOMER:

SITE:

SCALE: 20.000

DATE: 11 APR 03

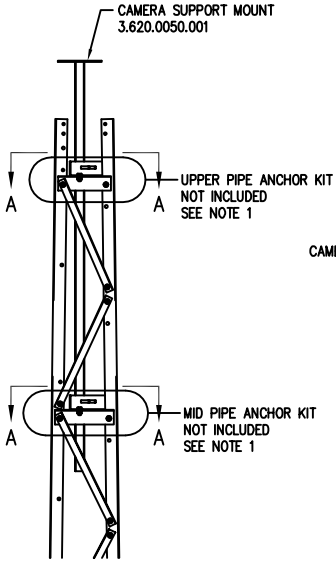
BY:

CHK:

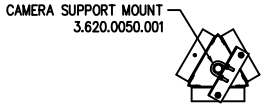
APP:

TITLE: SIDE MOUNT DETAILS

NOTES:



CAMERA MOUNT
KIT No. 4.85.0102.000



SECTION A–A

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

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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

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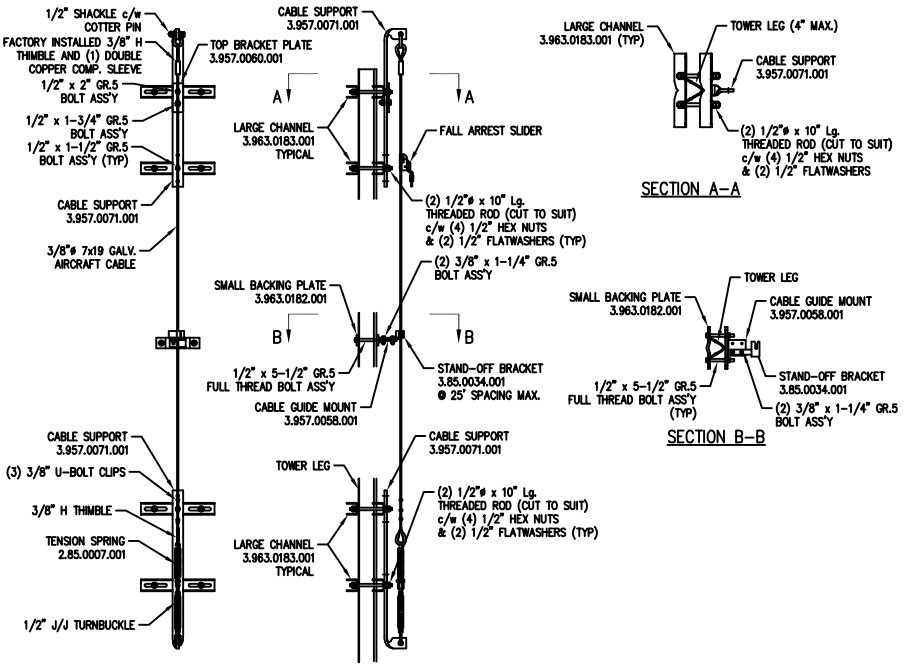
Trylon

DRAWING NO.
000001.620.0034

CUSTOMER:	SITE:	SCALE: 20.000
DATE: 11 APR 03	BY:	CHK: APP:

TITLE:
CAMERA MOUNT DETAILS



SECTION A-A

SECTION B-B

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

INSTRUCTIONS

INSTALLATION STEPS

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. Tighten the turnbuckle until the spring has $\frac{1}{2}$" to $\frac{3}{4}$" of deflection.
5) STAND-OFF BRACKETS: Install stand-off brackets at approximately 25 foot intervals. The stand-off brackets should be installed such that the cable will lie in the center of the stand-off bracket. The clip on the stand- off bracket is spring loaded and should firmly grip the 3/8" cable.
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 void 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 (±3°) 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° Celsius.

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

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

NOTES: 1) THE UPPER SAFETY CABLE SUPPORT MUST BE ATTACHED TO A STRUCTURE CAPABLE OF SUPPORTING A STATIC LOAD OF 5000lbs.
2) WARNING: ANY SLIDER WHICH HAS EXPERIENCED A FALL ARREST SHOULD NOT BE USED AFTER SUCH FALL ARREST.

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Trylon

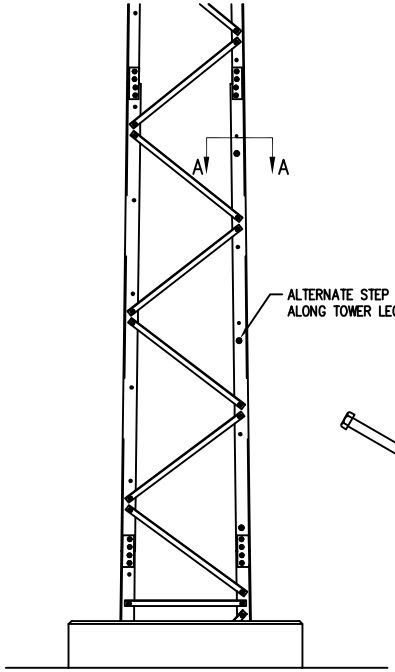
DRAWING NO. 000001.620.0042

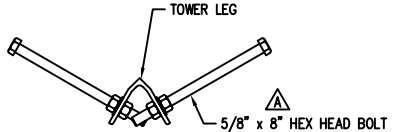
CUSTOMER: | SITE: | SCALE: 15.000

DATE: 25 APR 03 | BY: | CHK: | APP:

TITLE: SUPERTITAN SAFETY CABLE

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





SECTION A–A

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

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

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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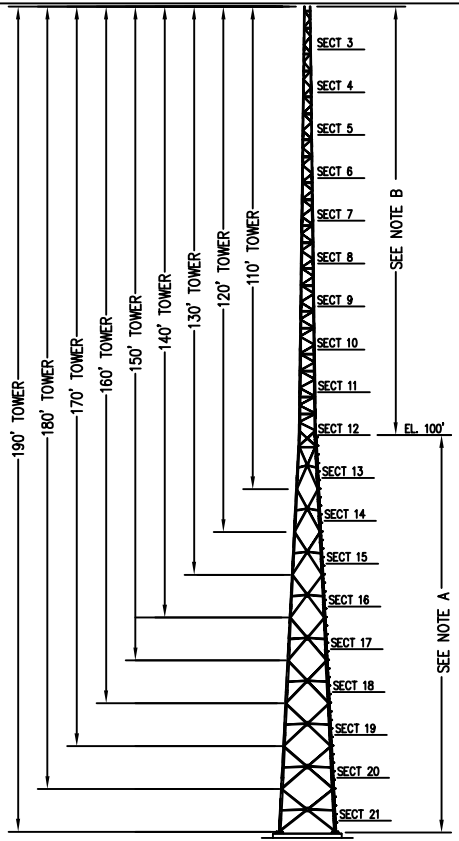
Trylon

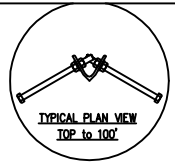
DRAWING NO. 000001.620.0041

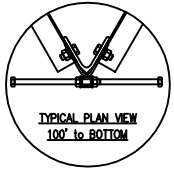
CUSTOMER: | SITE: | SCALE: 25.000

DATE: 25 APR 03 | BY: | CHK: | APP:

TITLE: STEP PEG INSTALLATION







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

NOTES:

A. REFER TO DWG. 01.620.0100 FOR STEP PEG LADDER ASSEMBLY for 100' to BOTTOM.

B. REFER TO DWG. 01.620.0041 FOR STEP PEG INSTALLATION FOR 100' to TOP.

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

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

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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Trylon

DRAWING NO. 000001.620.0110

CUSTOMER:

SITE: S300 SERIES

SCALE: 300.000

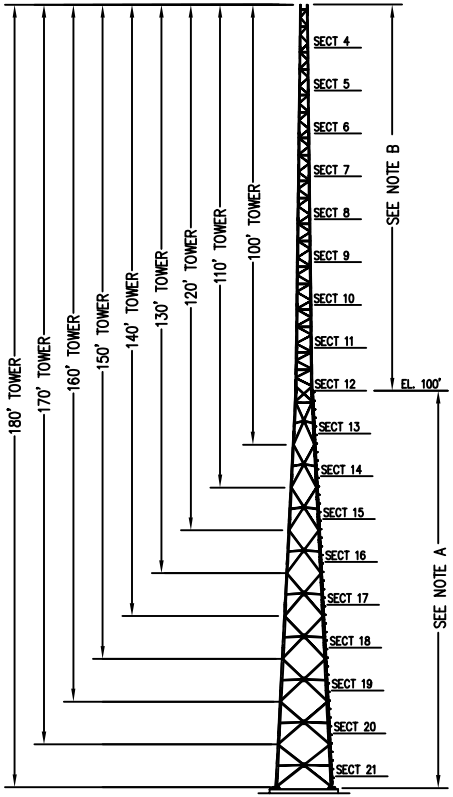
DATE: 19 NOV 04

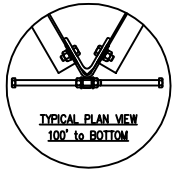
BY:

CHK:

APP:

TITLE: CLIMBING STEP-PEG KITS





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

NOTES:

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

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

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

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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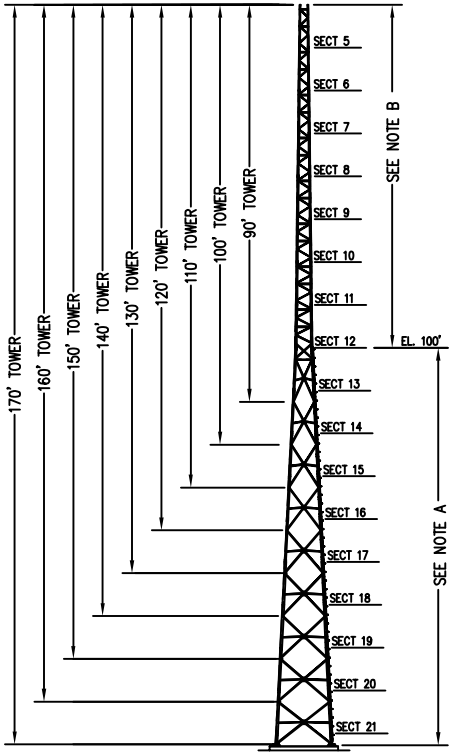
Trylon

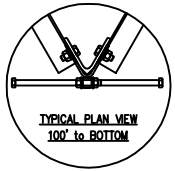
DRAWING NO. 000001.620.0111

CUSTOMER: | SITE: S400 SERIES | SCALE: 300.000

DATE: 19 NOV 04 | BY: | CHK: | APP:

TITLE: CLIMBING STEP-PEG KITS





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

NOTES:

A. REFER TO DWG. 01.620.0100 FOR STEP PEG LADDER ASSEMBLY for 100' to BOTTOM.

B. REFER TO DWG. 01.620.0041 FOR STEP PEG INSTALLATION FOR 100' to TOP.

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

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

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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Trylon

DRAWING NO. 000001.620.0112

CUSTOMER:

SITE: S500 SERIES

SCALE: 300.000

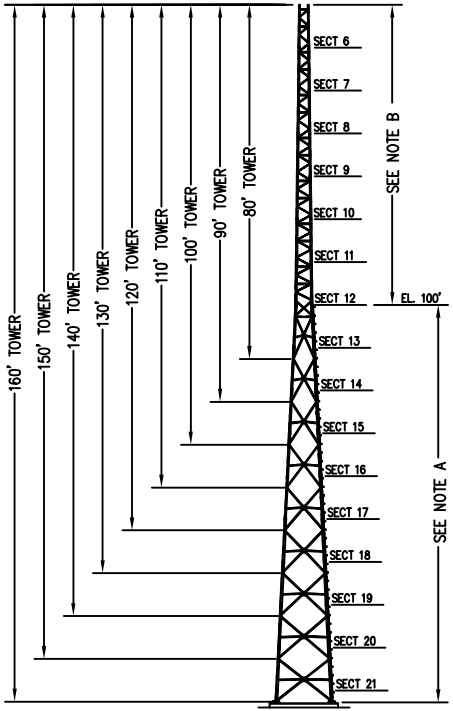
DATE: 19 NOV 04

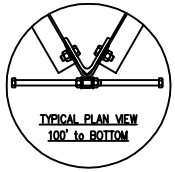
BY:

CHK:

APP:

TITLE: CLIMBING STEP-PEG KITS





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

NOTES:

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

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

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

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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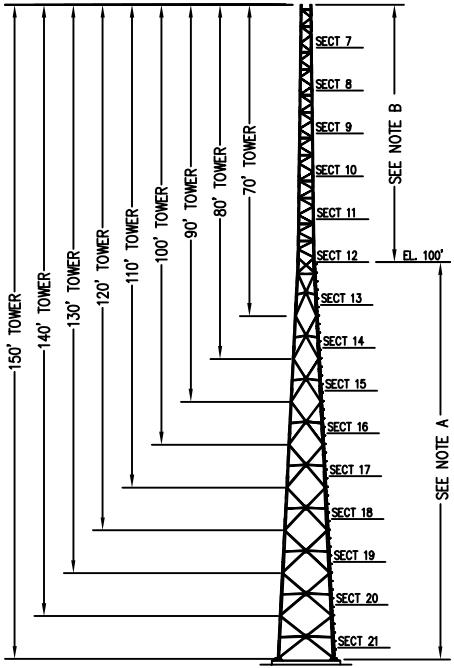
Trylon

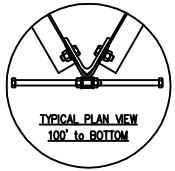
DRAWING NO. 000001.620.0113

CUSTOMER: | SITE: S600 SERIES | SCALE: 300.000

DATE: 19 NOV 04 | BY: | CHK: | APP:

TITLE: CLIMBING STEP-PEG KITS





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

NOTES:

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

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

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

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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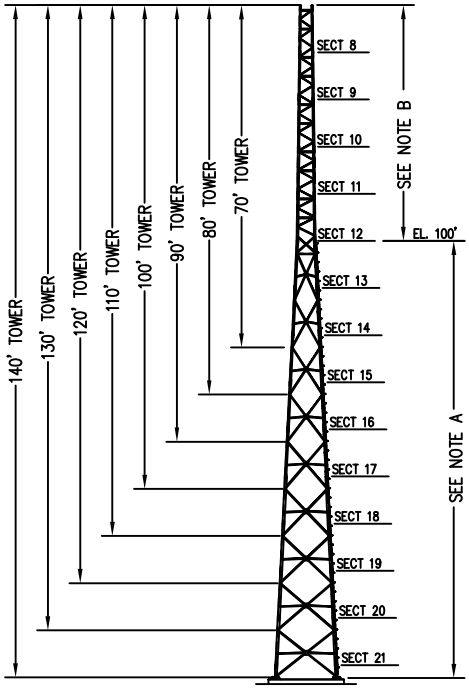
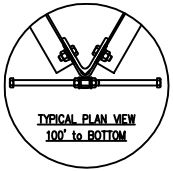
Trylon

DRAWING NO. 000001.620.0114

CUSTOMER:	SITE: S700 SERIES	SCALE: 300.000
DATE: 19 NOV 04	BY:	CHK: APP:

TITLE: CLIMBING STEP-PEG KITS





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

NOTES:

A. REFER TO DWG. 01.620.0100 FOR STEP PEG LADDER ASSEMBLY for 100' to BOTTOM.

B. REFER TO DWG. 01.620.0041 FOR STEP PEG INSTALLATION FOR 100' to TOP.

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

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

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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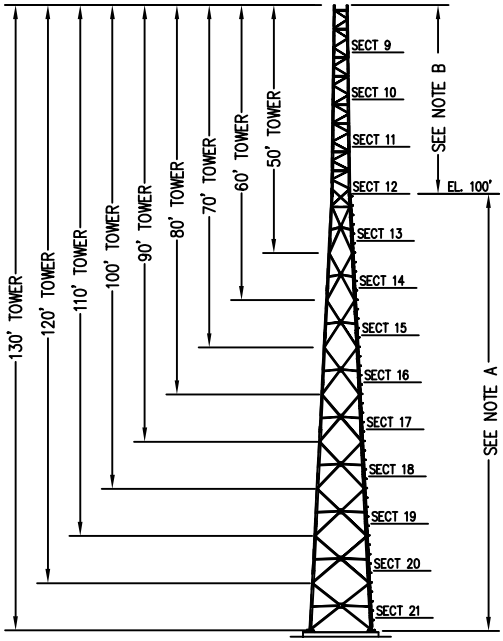
Trylon

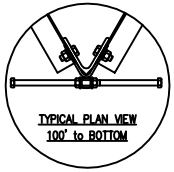
DRAWING NO. 000001.620.0115

CUSTOMER: | SITE: S800 SERIES | SCALE: 300.000

DATE: 19 NOV 04 | BY: | CHK: | APP:

TITLE: CLIMBING STEP-PEG KITS





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

NOTES:

A. REFER TO DWG. 01.620.0100 FOR STEP PEG LADDER ASSEMBLY for 100' to BOTTOM.

B. REFER TO DWG. 01.620.0041 FOR STEP PEG INSTALLATION FOR 100' to TOP.

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

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

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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Trylon

DRAWING NO. 000001.620.0116

CUSTOMER:

SITE: S900 SERIES

SCALE: 300.000

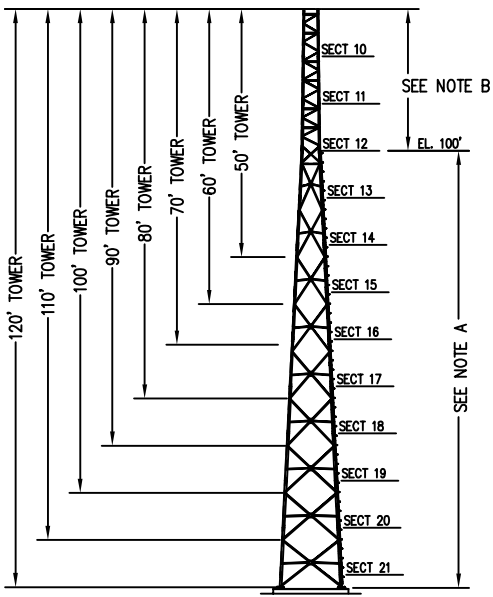
DATE: 19 NOV 04

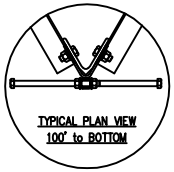
BY:

CHK:

APP:

TITLE: CLIMBING STEP-PEG KITS





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

NOTES:

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

NOTES: 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.

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

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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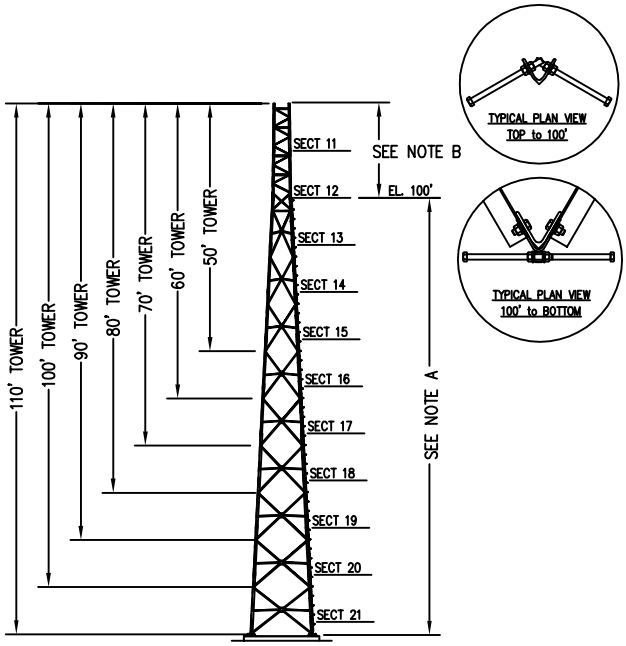
Trylon

DRAWING NO. 000001.620.0117

CUSTOMER: | SITE: S1000 SERIES | SCALE: 300.000

DATE: 19 NOV 04 | BY: | CHK: | APP:

TITLE: CLIMBING STEP-PEG KITS



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

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

NOTES: 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.

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

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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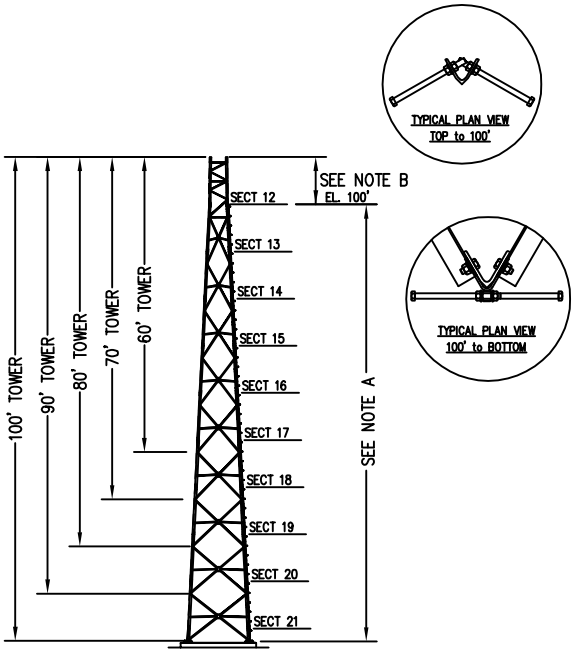
Trylon

DRAWING NO. 000001.620.0118

CUSTOMER: | SITE: S1100 SERIES | SCALE: 300.000

DATE: 19 NOV 04 | BY: | CHK: | APP:

TITLE: CLIMBING STEP-PEG KITS



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

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

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

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

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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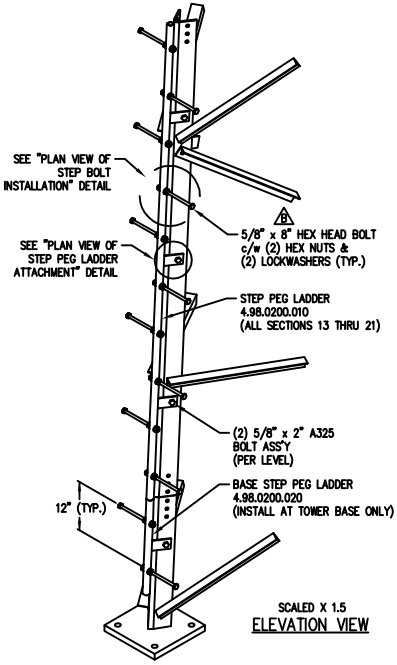
Trylon

DRAWING NO. 000001.620.0119

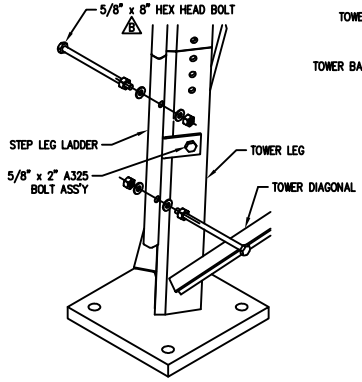
CUSTOMER:	SITE: S1200 SERIES	SCALE: 300.000
DATE: 19 NOV 04	BY:	CHK: APP:

TITLE: CLIMBING STEP-PEG KITS

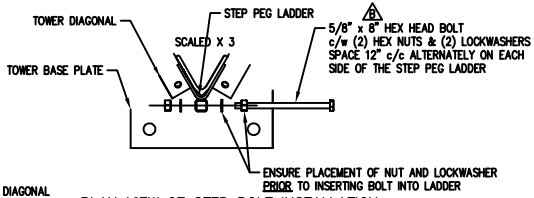


SCALED X 1.5

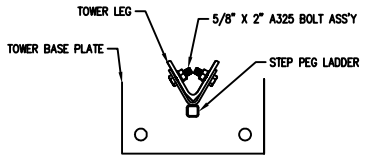
ELEVATION VIEW



CLOSE-UP OF STEP BOLT AND TOWER CONNECTION



PLAN VIEW OF STEP BOLT INSTALLATION



PLAN VIEW OF STEP PEG LADDER ATTACHMENT

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
B 5/8" x 8" HEX HEAD BOLT	10	5/8" x 8" HEX HEAD BOLT	2
5/8" HEX NUT	20	5/8" HEX NUT	4
5/8" LOCKWASHER	20	5/8" LOCKWASHER	4
3/4" SEALS ZINC COATED	4	3/4" SEALS ZINC COATED	2

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

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

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

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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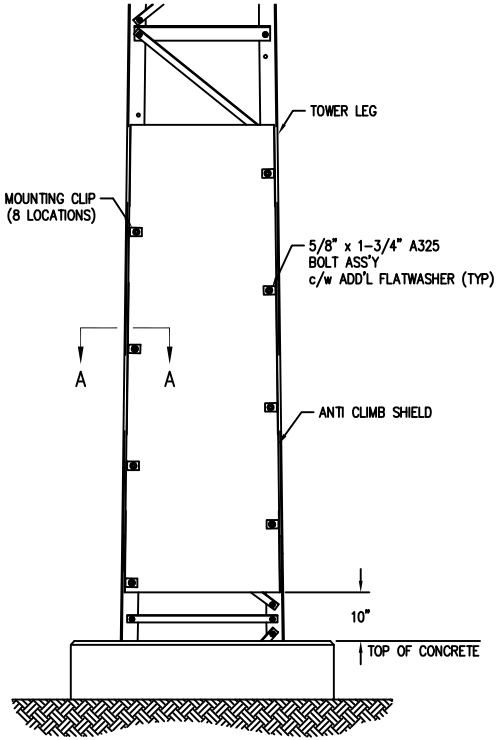
Trylon

DRAWING NO. 000001.620.0100

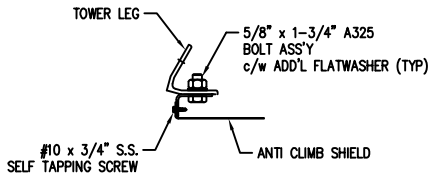
CUSTOMER: | SITE: | SCALE: 25.000

DATE: 05 JUL 04 | BY: | CHK: | APP:

TITLE: STEP PEG LADDER ASSEMBLY



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



SECTION A-A

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

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

NOTES:

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

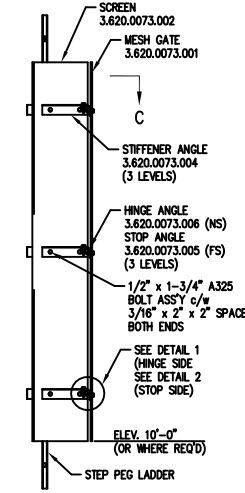
Trylon

DRAWING NO. 000001.620.0044

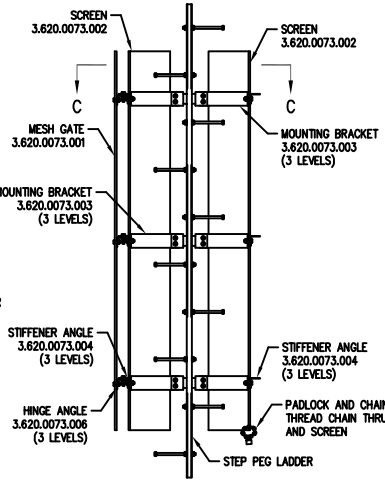
CUSTOMER: | SITE: | SCALE: 20.000

DATE: 29 APR 03 | BY: | CHK: | APP:

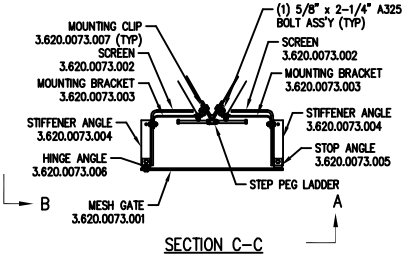
TITLE: ANTI CLIMB INSTALLATION



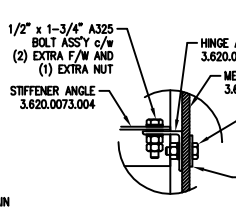
SECTION B-B



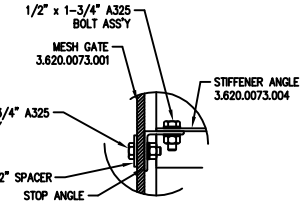
SECTION A-A
(MESH GATE SHOWN OPEN)



SECTION C-C



1 DETAIL HINGE SIDE



2 DETAIL STOP SIDE

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

REFERENCE DRAWINGS:

DRAWING NUMBER	DRAWING NUMBER

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Trylon

DRAWING NO. 000001.620.0099

CUSTOMER: | SITE: | SCALE: 20.000

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

TITLE: ANTI CLIMB MESH ASSEMBLY

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

Trylon

ISO 9001: 2000 Registered

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