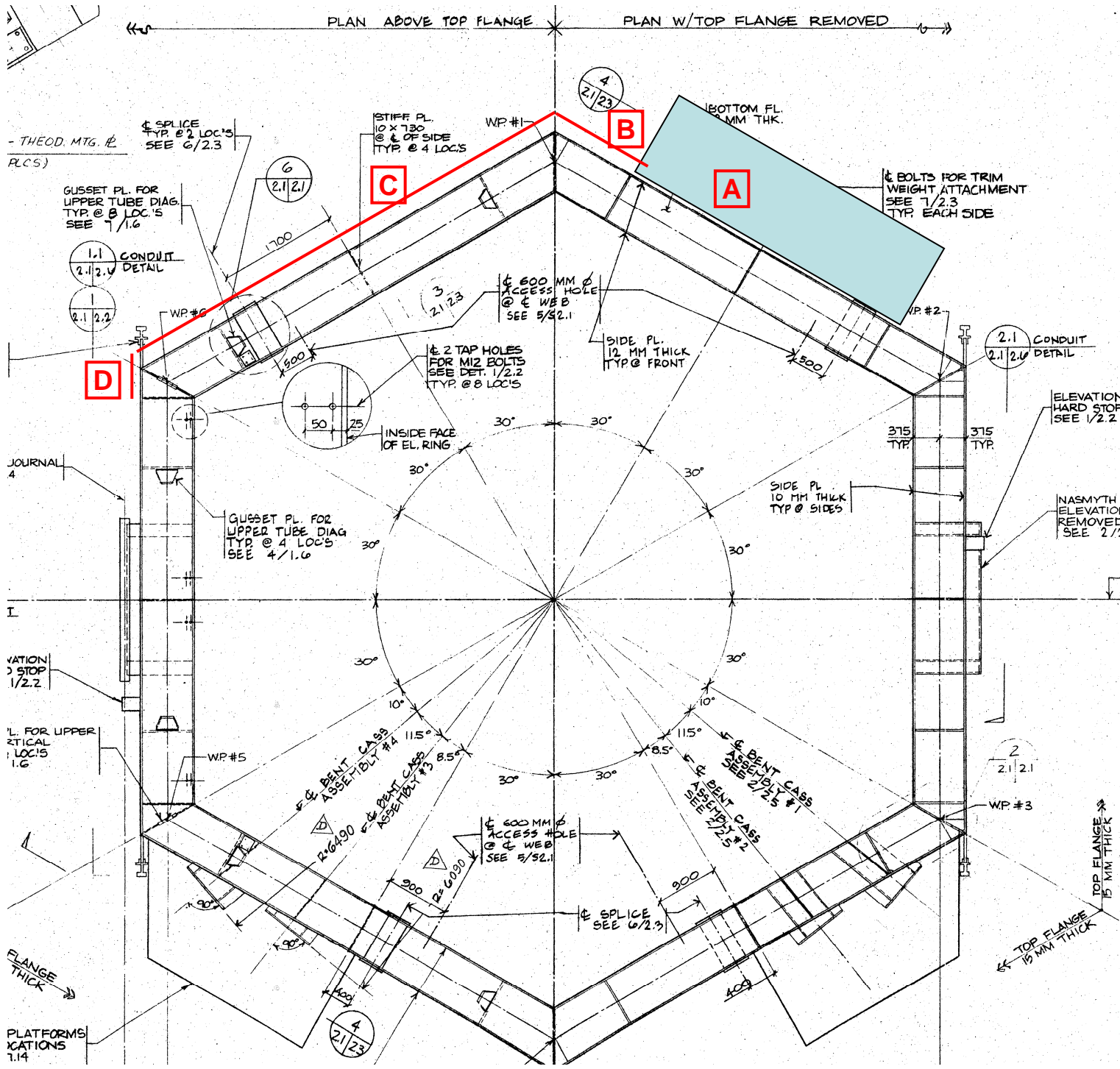


Length from K2 Laser enclosure on EL-Ring to AO (left Nas)

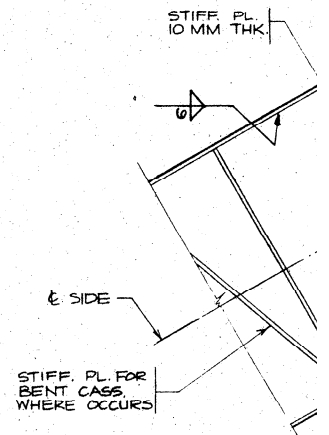
fiber for NGAO lasers

measurements taken 19July2010 JC/EW

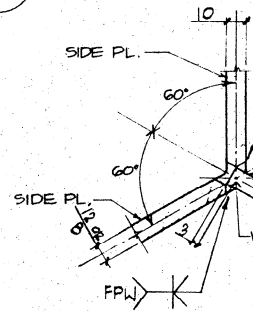
| relevant photos | segment on DWG | From | To | Inch | Millimeter | Comment | Inch | Millimeter | Comment |
|-----------------|----------------|------------------------------|------------------------------|-------|-----------------|---|-------|-----------------|---|
| 1 | A | Laser Head | Laser Enclosure wall (exit) | 215.0 | 5461.00 | Measurement | 172.0 | 4368.80 | optimize enclosure routing; reduce by 20% |
| 2 | B | Laser Enclosure wall (exit) | Elevation Center Ring Corner | 27.0 | 685.80 | Measurement/Calculation; confirmed on model (650mm) | 27.0 | 685.80 | |
| 2,3,4 | C | Elevation Center Ring Corner | Elevation Top Ring Corner | 268.0 | 6807.20 | Measurement, confirmed on Medwadowski dwg 2.1 & model (6784mm) | 268.0 | 6807.20 | |
| 5,6 | D | Elevation Top Ring Corner | Elevation Divot | 17.0 | 433.00 | Drawing (Medwadowski 2.2) & model | 17.0 | 433.00 | |
| 5,6 | E | Elevation Divot | Elevation Top Center Corner | 123.0 | 3123.30 | Medwadowski dwg 2.2 & Solidworks model; confirmed by measurement (122" = 3099mm) | 118.3 | 3006.00 | |
| 7 | F | Elevation Top Center Corner | Cable Tray 1 End | 64.0 | 1625.60 | Measurement | 64.0 | 1625.60 | |
| 8,9 | G | Cable Tray 1 End | Cable Wrap Exit | 36.0 | 914.40 | Measurement | 36.0 | 914.40 | |
| 10,11 | H | Cable Wrap Exit | Cable Wrap Entrance | 384.0 | 9753.60 | Measurement (perhaps 360mm long, outside vs center), confirmed on Kockums KE02000 & KE02030 (9749 mm) | 345.9 | 8785.86 | calculate distance for center of tray (369.9"); don't go to floor, shorten by 24" |
| 11 | I | Cable Wrap Entrance | AOE side wall 1 | 21.0 | 533.40 | Measurement | 21.0 | 533.40 | |
| 11 | J | AOE side wall 1 | AOE side wall 2 | 22.0 | 558.80 | Measurement; confirmed on WKMO 1300-C008 | 22.0 | 558.80 | |
| 12 | K | AOE side wall 2 | AOE side wall 3 | 36.0 | 914.40 | Measurement | 36.0 | 914.40 | |
| 12,13,14 | L | AOE side wall 3 | AOE cable tray vertical | 102.0 | 2590.80 | Measurement | 78.0 | 1981.20 | don't go to floor, shortens by 24" |
| | M | AOE cable tray vertical | AOE cable tray Horizontal | 128.0 | 3251.20 | Measurement | 70.0 | 1778.00 | position racks closer to wrap (inside AO) |
| | N | AOE cable tray Horizontal | AOE cable tray down | 99.0 | 2514.60 | Measurement | 65.9 | 1674.72 | don't go to floor |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | Total distance | | 39167.10 | | | 34067.18 | |



TYP. 3.2
 2.1, 2.2

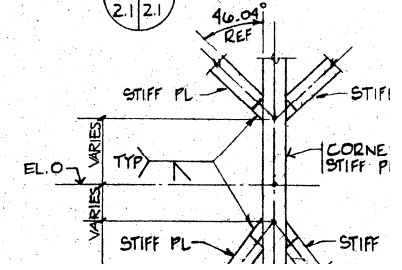


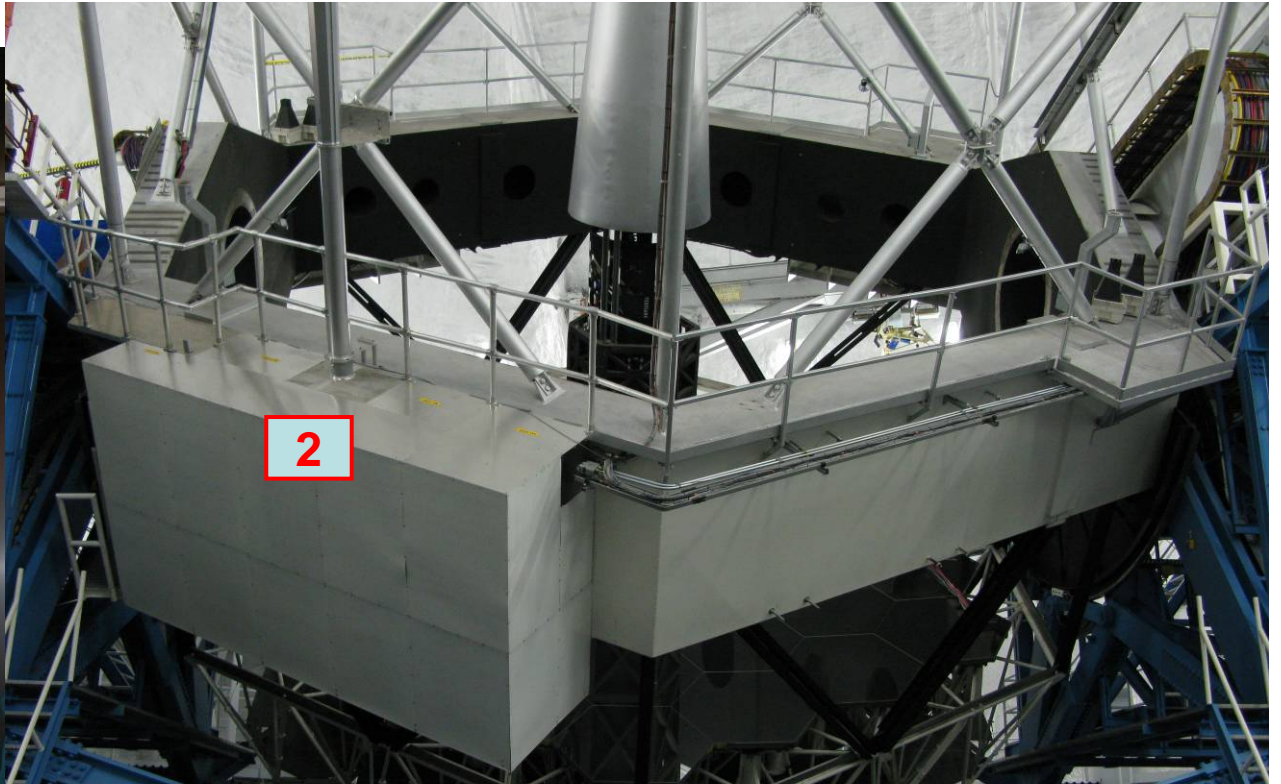
2 ENLARGED P
 2.1, 2.1

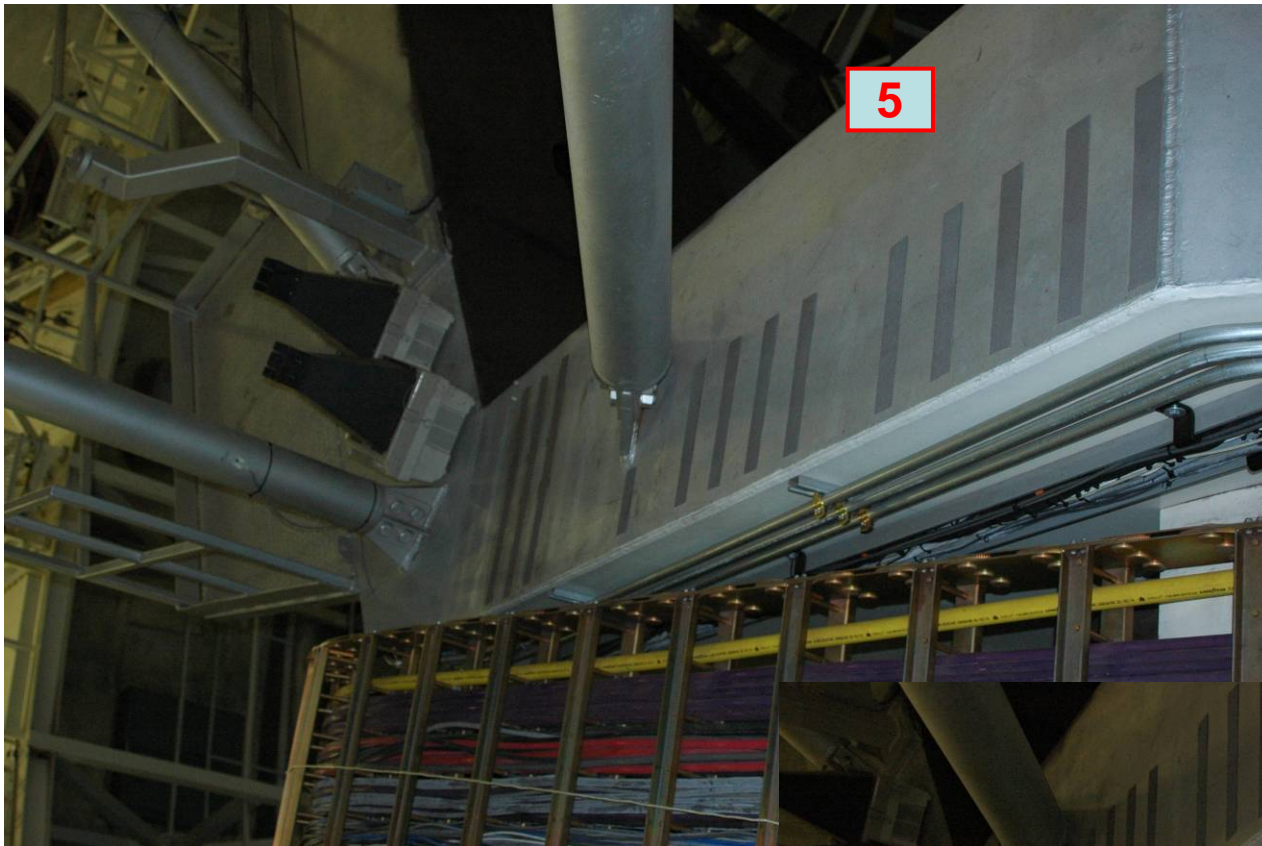


CORNER VERT. STIFF PL

3 WELD DETAIL
 2.1, 2.1





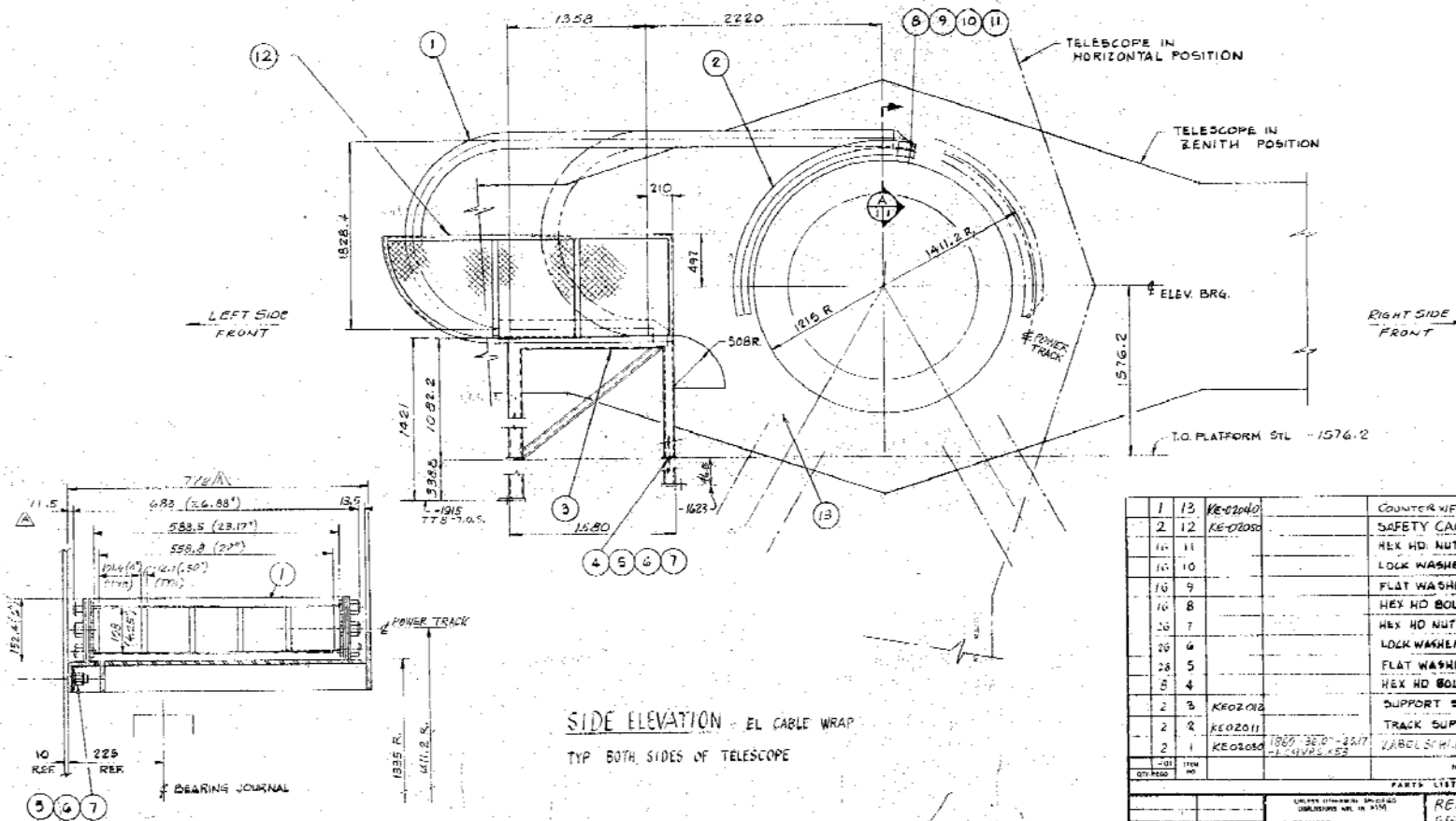




NOTES (UNLESS OTHERWISE SPECIFIED)

H

| REV | DESCRIPTION | BY | CHK | DATE |
|-----|--|-----|-----|---------|
| A | CHAMBERLAIN SUPPORT LOCATION AND WHEEL TRACK SPACING | MPS | MPS | 10/2/92 |



| QTY | ITEM NO | DESCRIPTION | MATERIAL |
|-----|---------|------------------|--------------------------------|
| 1 | 13 | KE-02040 | COUNTERWEIGHTS & FASTENERS |
| 2 | 12 | KE-02050 | SAFETY CAGE |
| 10 | 11 | | HEX HD NUT 1/2-13 UNC |
| 10 | 10 | | LOCK WASHER 1/2" SPRING |
| 10 | 9 | | FLAT WASHER 1/2" |
| 10 | 8 | | HEX HD BOLT 1/2-13 UNC X 2 1/4 |
| 10 | 7 | | HEX HD NUT 3/4-10 UNC |
| 10 | 6 | | LOCK WASHER 3/4" SPRING |
| 10 | 5 | | FLAT WASHER 3/4" |
| 10 | 4 | | HEX HD BOLT 3/4-10 UNC X 2 1/4 |
| 2 | 3 | KE-02018 | SUPPORT STAND |
| 2 | 2 | KE-02011 | TRACK SUPPORT |
| 2 | 1 | KE-02030 | LABELS: SCHLUPP POWER TRACK |
| 1 | 1 | 1800 380" - 220" | LANDER |

| | | | | | |
|-------------|--|--|--|--|--|
| -01 ITEM NO | | NOMENCLATURE OF DESCRIPTION | | MATERIAL OR UNIT | |
| QTY REQD | | PARTS LIST | | | |
| | | CARRIER (STANDARD) SPECIFIED COMPRESSION AIR IN ITEM | | REF: 197-02-00 REV C REF: 197-02-00 REV A | |
| | | 10 FRANCES SECTIONAL S X 1/2 X 1/4 X 1/8 X 1/16 X 1/32 X 1/64 X 1/128 X 1/256 X 1/512 X 1/1024 X 1/2048 X 1/4096 X 1/8192 X 1/16384 X 1/32768 X 1/65536 X 1/131072 X 1/262144 X 1/524288 X 1/1048576 X 1/2097152 X 1/4194304 X 1/8388608 X 1/16777216 X 1/33554432 X 1/67108864 X 1/134217728 X 1/268435456 X 1/536870912 X 1/1073741824 X 1/2147483648 X 1/4294967296 X 1/8589934592 X 1/17179869184 X 1/34359738368 X 1/68719476736 X 1/137438953472 X 1/274877906944 X 1/549755813888 X 1/1099511627776 X 1/2199023255552 X 1/4398046511104 X 1/8796093022208 X 1/17592186044416 X 1/35184372088832 X 1/70371252455336267171595264 X 1/140742504903657293676544 X 1/281485009807314587353088 X 1/562970019642690137372762112 X 1/1125940039285380274745524224 X 1/2251880078570760549491048448 X 1/4503760157141521098982096896 X 1/9007520314283042197964193792 X 1/1801504062856608439592838784 X 1/3603008125713216879185677568 X 1/7206016251426433758371355136 X 1/14412032502852867516742710272 X 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1. DIMENSIONS IN PARENTHESIS ARE IN MILLIMETERS.

2. PURCHASE FROM: (SEE NOTE 3)
GLEASON REEL

GLEASON REEL

P.O. BOX 26, 600 S. CLARK ST.

MAYVILLE, WISCONSIN, 53050

(44) 387-4120

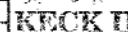
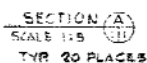
MODEL NO = PT6018-W44-30.0"-24"

3. REPLACE WITH :

KABELSCHLEPP (V. "LANDEL")

*VARITRAK® SERIES 93

MODEL NO : 18606
QTY : 53 LINKS



Calculated outside distance @ zenith

(exit to entrance at floor)

$$(1411.3 + 76.2) * \pi / 2 = 2336.6$$

1359

$$(914.4 + 76.2) \cdot \pi = 3112 \text{ (add 76.2 to outside)}$$

1359

210 (tray end to exit radius)

$$508 * \pi / 2 = 798 \text{ (exit radius)}$$

1082.2 – 508 (end of exit radius to floor)

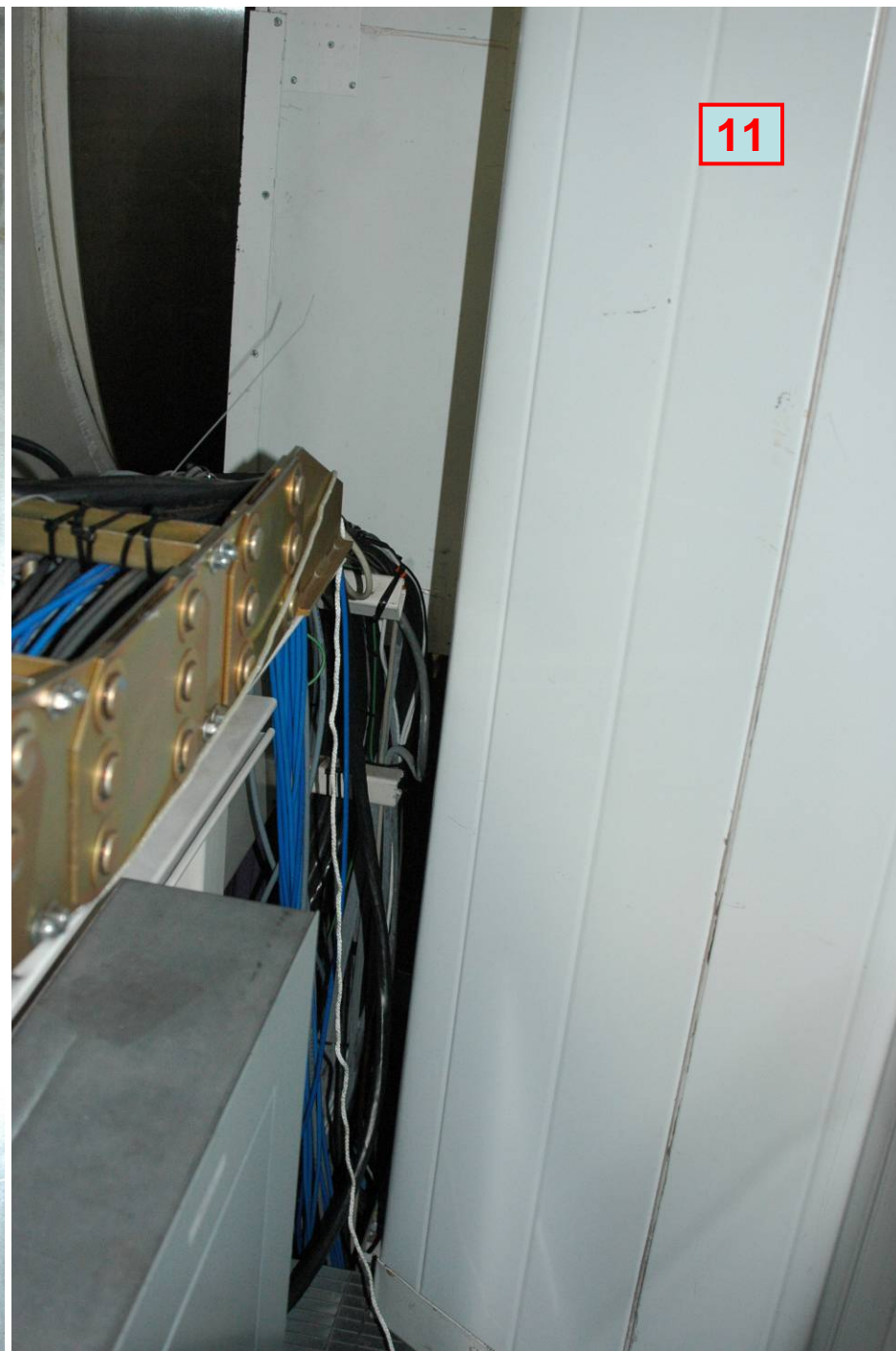
total = 9748.8mm

AS BUILT

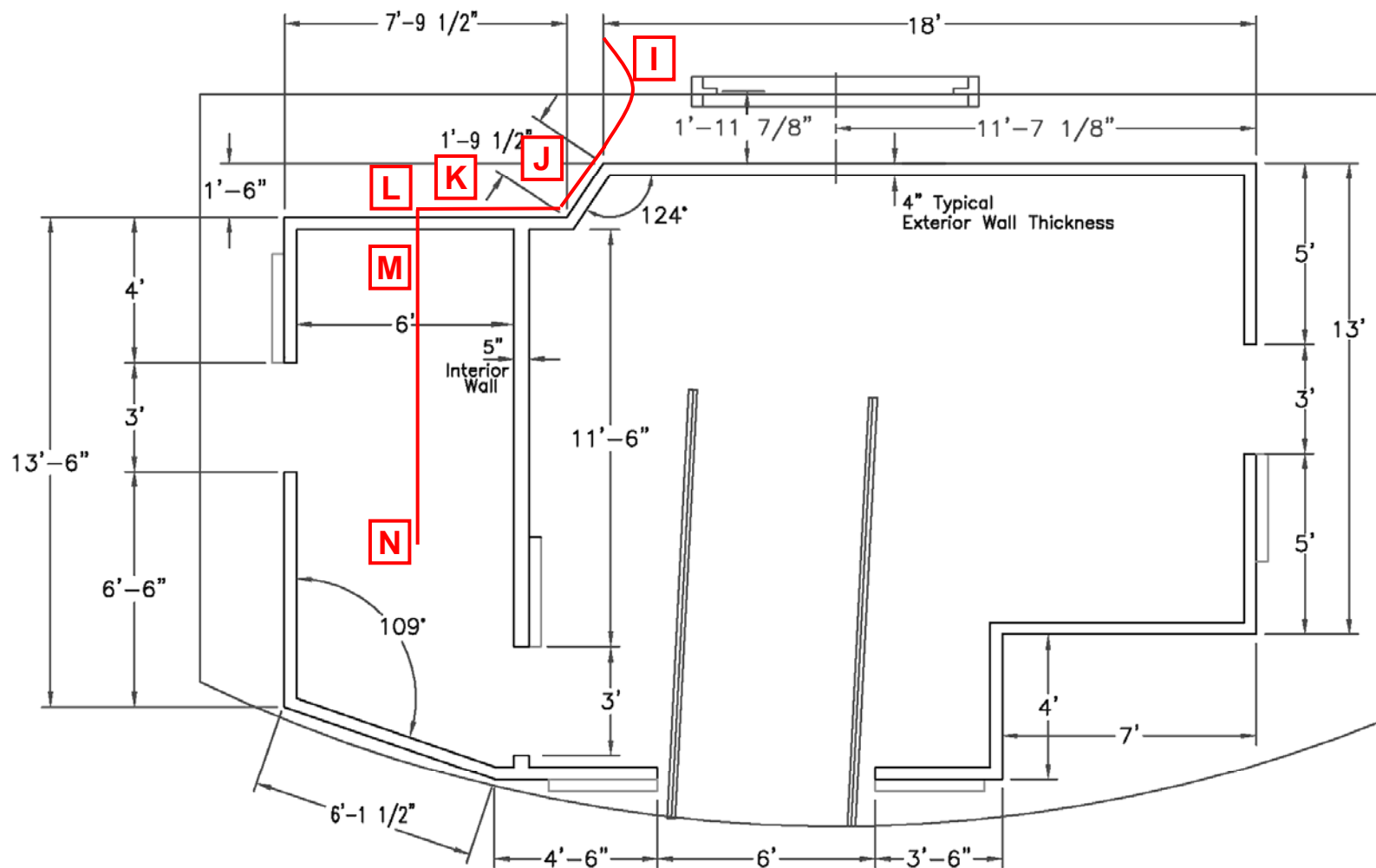
APPROVE
DATE:

SOURCE CONTROL DRAWING

| | | | | | |
|--|------|----------|----------------|----------------------------|-----------------|
| NO. 1 | DATE | REF. NO. | CONFIRMING NO. | TERMINALITY OR DESCRIPTION | REMARKS OR NOTE |
| PARTS LIST | | | | | |
| TOWER 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| REVISIONS | | | | |
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| REV | DATE | DESCRIPTION | ECR | APPROVED |
| A | 24 DEC 02 | UPDATED DRAWING NUMBER | 90989 | AC |



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| DESIGN | TG 1996-98 |
| DRAWN | KS 1998-98 |
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| A | NASMYTH PLATFORM | 1300-C0008 | A |

