



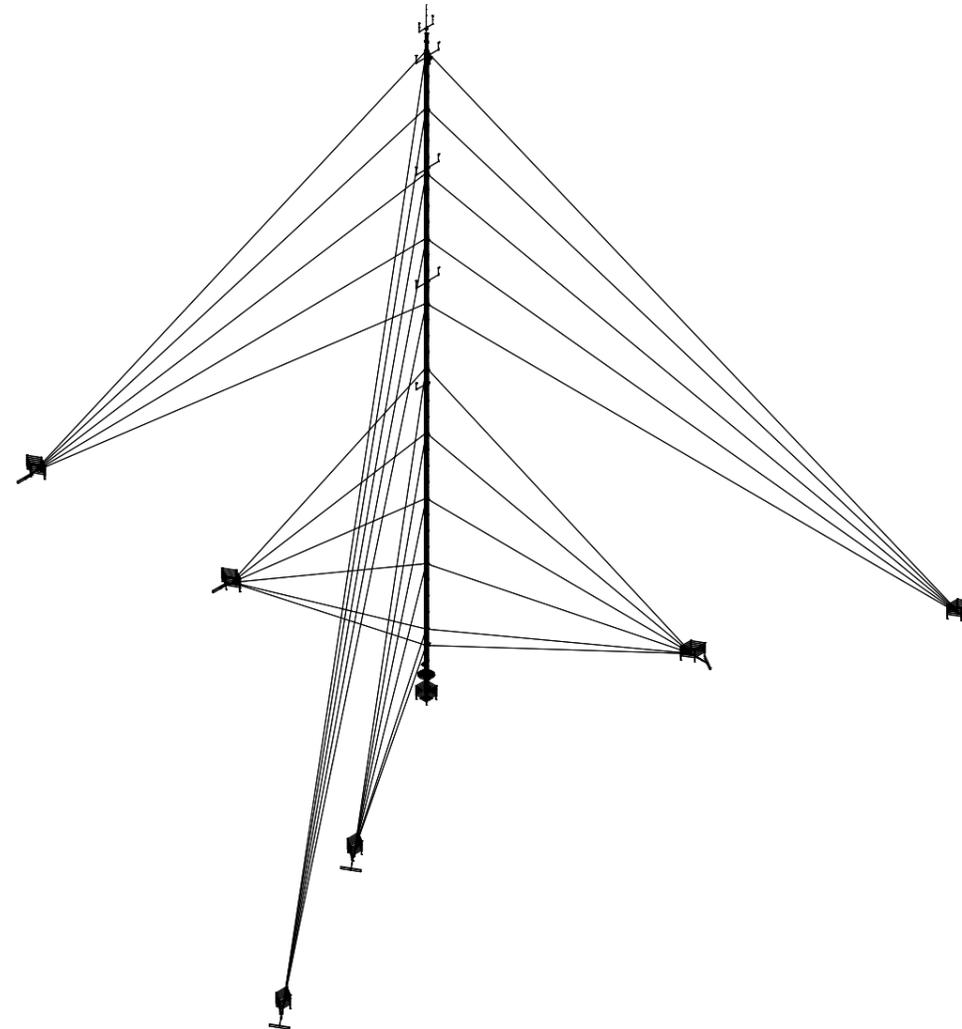
A Lighthouse Industries Company

**CLIENT:** VESTAS  
**SITE:** GERALDTON, WA  
**ART ASSET NUMBER:** AA00642  
**MAST NAME:** GERM02  
**COORDINATES:** UTM S 50 J: 340827.647, 6800077.123  
 LAT/LONG: -28.917325, 115.367202  
**DESCRIPTION:** 120m (NOM.) TEMPORARY GL55-36 GUYED LATTICE MAST

NOTES



DRAWING REGISTER	
DRAWING TITLE	SHEET No.
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1 ISOMETRIC VIEW  
S-01

REV	DESCRIPTION	DATE
01	REVISED LOCATION	09/03/26
00	ISSUED FOR CONSTRUCTION	3/02/26



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CLIENT



PROJECT  
 GERALDTON, WA  
 GERM02, 120M(NOM.) MET MAST  
 GL55-36 GUYED LATTICE MAST  
 TEMPORARY DEPLOYMENT

SHEET TITLE  
 TITLE SHEET & DRAWING REGISTER

STATUS  
**FOR CONSTRUCTION**

SCALE PLOTTED AT A3  
 N.T.S.      THIRD ANGLE  
 PROJECTION

DRAWN CG	CHECKED DM	APPROVED DN	PROJ. MANAGER MJ
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DRAWING NUMBER ART-240175-SGA-001	SHEET 1 / 12	ISSUE 01
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**GENERAL NOTES**

- ALL MAST STEELWORK COMPONENTS, ASSEMBLIES AND PARTS CALLED OUT ON DETAILS, SECTIONS AND BILLS OF MATERIALS ARE THE PROPRIETARY PRODUCTS OF ART GROUP UNLESS NOTED OTHERWISE (U.N.O). COMPLETE DETAILS AND INFORMATION OF THE ART GROUP PRODUCTS SHOWN ON PRODUCTION SHOP DRAWINGS.
- ALL DIMENSIONS TO BE CHECKED ON-SITE BEFORE CONSTRUCTION.
- ALL DIMENSIONS SHOWN ARE IN MILLIMETERS U.N.O.
- DIMENSIONS SHALL NOT BE OBTAINED BY SCALING DRAWINGS.
- ALL WORKMANSHIP AND MATERIALS SHALL BE AS PER THE CURRENT AUSTRALIAN STANDARDS AND THE BY-LAWS, AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITY.
- ALL STRUCTURE AND TEMPORARY WORK SHALL BE MAINTAINED IN A STABLE CONDITION AT ALL TIMES. NO COMPONENT SHALL BE OVERSTRESSED.
- INSTALL LAD-SAF FALL ARREST SYSTEM AS PER MANUFACTURER'S SPECIFICATIONS.

**LOCATION**

- THE MAST LOCATION AND PROXIMITY TO PUBLIC ROADS, BUILDINGS AND OTHER INFRASTRUCTURE IS THE RESPONSIBILITY OF THE CLIENT AND RELEVANT LOCAL COUNCIL, STATE AND FEDERAL AUTHORITIES. UNLESS OTHERWISE STATED, ART IS NOT RESPONSIBLE FOR THE FINAL LOCATION IN REGARD TO COMPLIANCE WITH RELEVANT LOCAL COUNCIL, AND STATE AND FEDERAL AUTHORITIES.

**EARTHING**

- UNLESS OTHERWISE SPECIFIED ART IS NOT RESPONSIBLE FOR THE SITE EARTHING SYSTEM COMPLIANCE TO AS/NZS 1768-2021 CI 3.5.3 (EARTHING RESISTANCE RECOMMENDED VALUES) AS WELL AS THE PROVISION OF GEOTECHNICAL AND SOIL RESISTIVITY SURVEY DATA.
- THE METAL GUY WIRES ARE CONSIDERED ADEQUATELY EARTHED AS THEY ARE ATTACHED TO BURIED STEEL ANCHOR RODS SET IN EARTH (REFER TO AS/NZS 1768-2021 APPENDIX I.5.1)
- THE TOWER METALLIC STRUCTURE IS CONSIDERED A NATURAL DOWN CONDUCTOR AND REQUIRES NO ADDITIONAL DOWNCONDUCTOR (REFER TO AS/NZS 1768-2021 CI 3.3.3)

**MAST ERECTION**

- MAST INSTALLATION DESIGNED FOR DERRICK-POLE.
- DERRICK-POLE LIFTS, ONLY ONE SECTION AT A TIME TO BE RAISED WITH DERRICK-POLE.
- GUYED LATTICE MASTS BY NATURE HAVE NO REDUNDANCY AND ARE A HIGH-RISK ACTIVITY TO ERECT. ONLY EXPERIENCED AND QUALIFIED RIGGERS (ADVANCED RIGGING HIGH RISK WORK LICENCED) WITH A PROVEN CONSTRUCTION METHODOLOGY AND A DEMONSTRATED HISTORY OF GUYED LATTICE MAST ERECTION SHALL BE ENGAGED FOR MAST ERECTION WORKS. SAFE WORK METHOD STATEMENTS (SWMS) SHALL BE DEVELOPED AND STRICTLY ADHERED TO ALONG WITH WHS REGULATIONS.

**FOOTINGS & FOUNDATIONS**

- ALL TOPSOIL AND UPPER STRATA CONTAINING ORGANIC MATTER SHALL BE REMOVED.
- IF MATERIAL ON-SITE IS NOT SUITABLE FOR STANDARD COMPACTION SPECIFICATIONS, THEN IMPORTED FILL OR BACKFILL SHALL CONSIST OF APPROVED MATERIAL INSTALLED AS PER COMPACTION SPECIFICATIONS.
- GROUND COLLAPSE CONTROL MEASURES SHALL BE USED WHERE GROUND COLLAPSE MAY OCCUR BY APPLYING EITHER SHORING, BENCHING AND OR BATTERING. LOCAL WHS CODE OF PRACTICE SHALL BE ADHERED TO.
- THE MINIMUM ALLOWABLE BEARING CAPACITY REQUIRED OF FOUNDATION MATERIAL SHALL BE 100kPa UNO. IN THE MAST DESIGN CRITERIA TABLE.
- THE FOLLOWING GEOTECHNICAL DESIGN ASSUMPTIONS HAVE BEEN MADE UNO. IN THE GEOTECHNICAL REPORT:
  - SOLID ROCK, LOOSE FILL AND SOFT CLAYS ARE NOT ENCOUNTERED
  - WATER TABLE IS NOT ENCOUNTERED
  - FINAL BACKFILL DENSITY IS AT LEAST 16kN/M3 OR HIGHER
  - CLAYS HAVE A MINIMUM 5kPa SHORT TERM COHESION WITH FRICTION ANGLE 25° OR HIGHER
  - SANDS ARE COHESIONLESS WITH FRICTION ANGLE 32° OR HIGHER
  - AGGRESSIVE SOILS ARE NOT ENCOUNTERED

**GUY ANCHOR COMPACTION SPECIFICATIONS**

- THE LEVEL OF TOLERANCE OF GUY ANCHOR FOOTING ELEVATION MAY VARY AS FOLLOWS (HIGHER/LOWER) WITHOUT ENGINEERING REVIEW MAINTAINING NOMINATED GUY ANCHOR ANGLES AS SPECIFIED BY THE STRUCTURAL ENGINEER.
 

INNER FOOTING:	3.0m
OUTER FOOTING:	5.0m

- EXCAVATE THE ANCHOR PIT AND INSTALL STEEL ANCHOR BEAM, ANCHOR ROD AND ATTACHMENTS AS SPECIFIED IN THE DETAILS AND INFORMATION PROVIDED ON STRUCTURAL DRAWINGS.
- CLAYS OR SILTS (BASED ON  $\phi=25^\circ$  AND  $C_u=20kPa$ ) OR SANDS (BASED ON  $\phi=32^\circ$  MIN.) CAN BE USED AS FILL MATERIAL. MINIMUM SOIL PROPERTIES ARE AS STATED ABOVE UNLESS A GEOTECHNICAL REPORT IS PROVIDED IN WHICH CASE SPECIFIC SELECT FILL PARTICLES SIZE AND SHAPE IS TO SUIT COMPACTED LAYER THICKNESS AS PER THE GEOTECHNICAL REPORT SPECIFICATIONS.
- ACHIEVE ADEQUATE COMPACTION BY PROVIDING A COMPACTED DENSITY EQUAL TO A CONTROLLED FILL CLASSIFICATION AS DEFINED IN AS2870. PLACE FILL IN LAYERS NO GREATER THAN 150mm WHEN COMPACTED. ACHIEVE REQUIRED COMPACTION BY MECHANICAL TAMPING SUCH AS COMPACTION BY RODDING, VIBRATING PLATE, SMOOTH DRUM ROLLER ATTACHED TO A BACKHOE/EXCAVATOR, OR WALK BEHIND WHACKER PACKER.
- THE ANGLE OF THE ANCHOR ROD SHOWN ON THE GUY ANCHOR FOOTING SCHEDULE REFERS TO THE PRETENSION FORCE BEING APPLIED TO GUY WIRES AND RE-COMPACTION OF LOOSE SOIL FOLLOWING PRETENSION.
- COMPLIANCE WITH CONTROLLED FILL IS DEEMED TO BE ACHIEVED IN SANDY SOILS IF:
  - A DYNAMIC CONE PENETROMETER (DCP) TEST (AS DEFINED BY AS. 1289.6.3.2) PRODUCES A BLOW COUNT OF 10 OR MORE FOR 300MM, OR; A PERTH SAND
  - A PENETROMETER (PSP) TEST (AS DEFINED BY AS1289.6.3.3) PRODUCES A BLOW COUNT OF 7 OR MORE FOR 300MM, AND;
  - NO FURTHER COMPACTION OCCURS WITH ADDITIONAL COMPACTION PASSES. FOR NON-SANDY AND CLAY SOILS, CONTROLLED FILL IS DEEMED TO BE ACHIEVED IF SOIL IS MOIST AND COMPACTED IN LAYER DEPTHS NOT MORE THAN 150MM WHEN COMPACTED.
- WHERE SOILS DEPART FROM THE MINIMUM REQUIREMENTS IN THE COMPACTION SPECIFICATION, OR WHERE A WATER TABLE ABOVE ANCHOR DEPTHS IS ENCOUNTERED, OR WHERE THE SOILS DEPART FROM THE GEOTECHNICAL REPORT, THE DESIGN ENGINEER IS TO BE NOTIFIED FOR DESIGN REVIEW.

**CONCRETE**

- ALL WORKMANSHIP AND MATERIALS SHALL BE AS PER AS3600.
- PLACE CONCRETE WITH COMPRESSIVE STRENGTH  $F_c$  32MPa AS DEFINED IN AS1379.
- ALL CONCRETE SHALL HAVE 80MM SLUMP AND NOMINAL 20M AGGREGATE SIZE.
- MAST BASE FOUNDATION: CONCRETE COVER OF 75mm MIN. TOP, BOTTOM AND SIDES.
- GUY ANCHOR FOUNDATION: MIN. 50mm CONCRETE COVER AROUND THE STEEL ANCHOR BEAM; FOR TOTAL CONCRETE DEPTH REFER TO THE GUY ANCHOR FOOTING SCHEDULE.
- NO HOLES OR CHASES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT WRITTEN APPROVAL FROM THE STRUCTURAL ENGINEER.
- REINFORCEMENT SYMBOLS:
  - N - GRADE 500 NORMAL DUCTILITY DEFORMED BAR.
  - SL/RL- DENOTES GRADE 500 LOW DUCTILITY RIBBED FABRIC
 THE NUMBER FOLLOWING THESE SYMBOLS INDICATES BAR DIAMETER IN MILLIMETRES U.N.O. REINFORCEMENT TO COMPLY WITH AS4671.

**STEELWORK**

- ALL WORKMANSHIP AND MATERIALS SHALL BE AS PER AS4100 AND AS1554.
- UNLESS NOTED OTHERWISE, THE FOLLOWING STEEL GRADES APPLY TO MAST SECTIONS:
 

MAST CORD (LEGS)	500 MPa
MAST WEBBING	300 MPa
PLATES	250 MPa
- WELDED CONNECTIONS BETWEEN STRUCTURAL MEMBERS ARE 6mm CONTINUOUS FILLET WELD (OR SIZE EQUIVALENT TO THE MINIMUM THICKNESS OF CONNECTION MEMBERS IF LESS THAN 6mm) U.N.O.
- BOLT TYPES AND DESIGNATIONS WHERE USED ARE AS FOLLOWS:
  - 4.6/S-COMMERCIAL BOLTS TO AS1111 SNUG TIGHTENED.
  - 8.8/S HIGH STRENGTH STRUCTURAL ASSEMBLY (BOLTS, NUTS AND HARDENED WASHERS) TO AS1252 SNUG TIGHTENED.
- M16 HIGH STRENGTH (8.8/S) BOLTS USED TYPICALLY IN ALL CONNECTIONS U.N.O. NOTWITHSTANDING THIS, NO STEEL-TO-STEEL CONNECTIONS ASSEMBLED WITH LESS THAN 2/M16 (8.8/S) BOLTS U.N.O.
- U-BOLTS (4.6/S) USED FOR ANCILLARIES INSTALLATION U.N.O.
- BOLT HOLES IN STEEL-TO-STEEL AND STEEL-TO-CONCRETE CONNECTIONS WITH BOLT DIAMETER +2mm AND +3mm RESPECTIVELY. FOR BASE PLATES ALLOW A BOLT DIAMETER +6mm U.N.O.
- ALL NUTS, BOLTS AND WASHERS SHALL BE GALVANIZED U.N.O.
- WELD MATERIAL REQUIRES A NOMINAL TENSILE STRENGTH OF 490MPa AS PER AS4100:2020, TABLE 9.6.3.10(A)
- ALL WELDS REQUIRE CATEGORY SP AS PER AS1554 PART 1 U.N.O.
- PROTECTIVE SURFACE TREATMENT APPLIED TO STRUCTURAL STEELWORK AS FOLLOWS:
  - GENERAL MAST FINISH:HOT-DIP GALVANIZE "HDG600" (AS2312).
  - GUY ANCHOR BEAMS & ANCHOR RODS FINISH: HOT-DIP GALVANIZE "HDG600" (AS2312). BLACK STEEL MAY BE USED WHERE ANCHOR BEAM IS ENCASED IN CONCRETE.

<b>MAST DESIGN CRITERIA</b>	
WIND PARAMETERS (AS1170.2:2021 & AS3995-1994)	
WIND REGION	B2
TERRAIN CATEGORY	2
IMPORTANCE LEVEL (AS1170.0:2002)	1
TOPOGRAPHIC MULTIPLIER $M_t$	1.000
DIRECTIONAL MULTIPLIER $M_d$	0.9
CLIMATE CHANGE MULTIPLIER $M_c$	1.05
REGIONAL WIND SPEED $V_r$ (m/s)	41
SERVICE WIND $V_s$ (m/s)	27
DEPLOYMENT TYPE	TEMPORARY
STRUCTURE SERVICE LIFE (1)	6 YEARS
<b>MAST FOOTING &amp; SOIL PROPERTIES</b>	
SOIL ALLOWABLE BEARING CAPACITY REQUIRED (kPa)	100KPa
<b>NOTES: (A)</b>	
1. DESIGN SERVICE LIFE FOR STRUCTURE, FOOTINGS AND PROTECTIVE COATINGS SUBJECT TO ROUTINE INSPECTION AND MAINTENANCE. CONTACT ART FOR RECOMMENDED MAINTENANCE SCHEDULE AND REQUIREMENTS. * A LIVE LOAD OF 2 PERSONNEL (100KG EACH) CLIMBING THE STRUCTURE FOR MAINTENANCE HAS BEEN CONSIDERED. IN ACCORDANCE WITH AS. 3995, THE STRUCTURE IS CLASSIFIED AS A CLASS C STRUCTURE AND ALLOWS ACCESS ONLY FOR TWO EXPERIENCED AND QUALIFIED RIGGERS (ADVANCED RIGGING HIGH RISK WORK LICENCED).	

- CATHODIC PROTECTION IS RECOMMENDED FOR DIRECTLY BURIED STEEL STRUCTURES. ART IS NOT RESPONSIBLE FOR CORROSION OF THE BELOWGROUND STEEL ELEMENTS WHERE CATHODIC PROTECTION IS NOT USED.

**RIGGING NOTES**

- THE SAFE WORKING LOAD (SWL) OR WORKING LOAD LIMIT (WLL) OF ALL RIGGING COMPONENTS INCLUDING SHACKLES, TURNBUCKLES AND TERMINATIONS SHALL MATCH OR EXCEED THE DESIGN CAPACITIES OF THE ADJOINING GUY WIRE. LIKEWISE, THE ULTIMATE CAPACITY OF THESE COMPONENTS SHALL EXCEED THE MINIMUM BREAKING FORCE (MBF) OF THE ADJOINING GUY WIRE.
- RIGGING COMPONENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATION AND UNDERGO PERIODIC MAINTENANCE AND INSPECTION AS PER SUPPLIER RECOMMENDATIONS AND RELEVANT AUSTRALIAN STANDARDS.
- GUY WIRE SPECIFICATION AND MINIMUM REQUIREMENTS FOR ADJOINING RIGGING COMPONENTS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE IN THE RIGGING SCHEDULE:
  - 8.25mm GUY WIRES:
    - 7/2.5mm STRANDS G1320
    - TENSILE STRENGTH = 1320MPa
    - MINIMUM BREAKING FORCE (MBF) = 50kN
    - PRE-TENSION TO 3.5kN
    - TERMINATION – GFG-083-CL FANWRAP WHITE (MBF = 44.1kN)
    - THIMBLE – 10mm PART NO. 302510 THIMBLE (MBF = 63.1kN)
    - SHACKLE – 16mm GRADE 'S' BOW (SWL = 3.25t)
    - TURNBUCKLE – 5/8" GRADE 'P'
    - (WLL = 1.59t AND PROOF TESTED TO 2xWLL)
  - 10mm GUY WIRES:
    - 19/2.00mm STRANDS G1320
    - TENSILE STRENGTH = 1320MPa
    - MINIMUM BREAKING FORCE (MBF) = 71kN
    - PRE-TENSION TO 5kN.
    - TERMINATION – GFG-100 FANWRAP YELLOW (MBF = 70.5kN)
    - THIMBLE – 11mm PART NO. 302511 THIMBLE (MBF = 76.3kN)
    - SHACKLE – 19mm GRADE 'S' BOW (SWL = 4.75t)
    - TURNBUCKLE – 7/8" GRADE 'P'
    - (WLL = 3.27t AND PROOF TESTED TO 2xWLL)
  - 13.75mm GUY WIRES:
    - 19/2.75mm STRANDS G1320
    - TENSILE STRENGTH = 1320MPa
    - MINIMUM BREAKING FORCE (MBF) = 134kN
    - PRE-TENSION TO 10.0kN
    - TERMINATION – GFG-138 FANWRAP WHITE (MBF = 133kN),
    - THIMBLE – 16mm PART NO. 302516 THIMBLE (MBF = 161kN)
    - SHACKLE – 22mm GRADE 'S' BOW (SWL = 6.5t)
    - TURNBUCKLE – 1" GRADE 'P'
    - (WLL = 4.54t AND PROOF TESTED TO 2xWLL)

NOTES		
01	REVISED LOCATION	09/03/26
00	ISSUED FOR CONSTRUCTION	3/02/26
REV	DESCRIPTION	DATE



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PROJECT  
 GERALDTON, WA  
 GERM02, 120M(NOM.) MET MAST  
 GL55-36 GUYED LATTICE MAST  
 TEMPORARY DEPLOYMENT

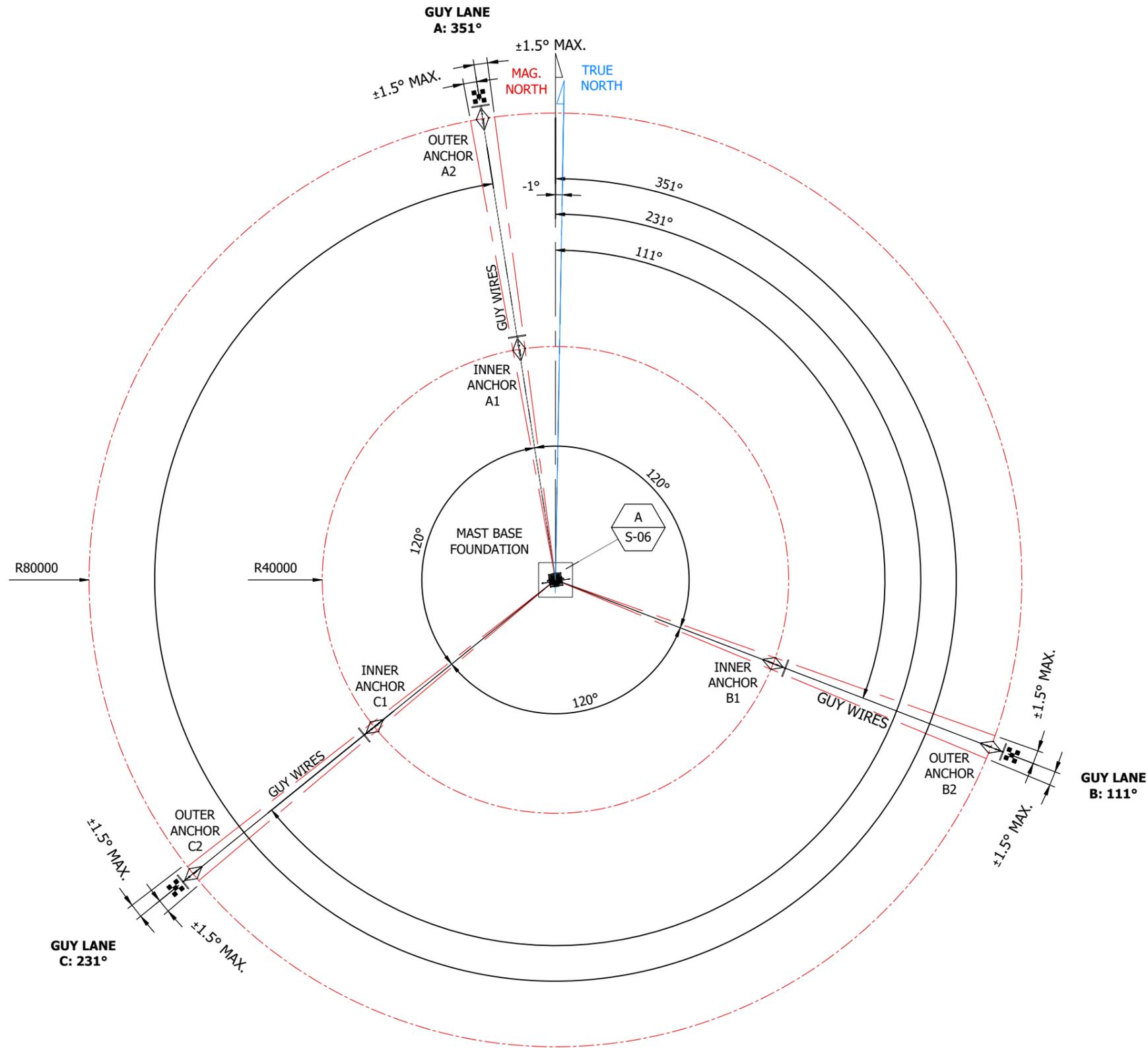
SHEET TITLE  
 GENERAL NOTES

STATUS **FOR CONSTRUCTION**

SCALE PLOTTED AT A3 N/A	THIRD ANGLE PROJECTION
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DRAWN CG	CHECKED DM	APPROVED DN	PROJ. MANAGER MJ
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DRAWING NUMBER ART-240175-SGA-001	SHEET 2 / 12	ISSUE 01
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1 PLAN VIEW  
S-03 MAST ARRANGEMENT

NOTES

REV	DESCRIPTION	DATE
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PROJECT  
GERALDTON, WA  
GERM02, 120M(NOM.) MET MAST  
GL55-36 GUYED LATTICE MAST  
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SHEET TITLE  
MAST PLAN

STATUS **FOR CONSTRUCTION**

SCALE PLOTTED AT A3  
1:800

THIRD ANGLE  
PROJECTION

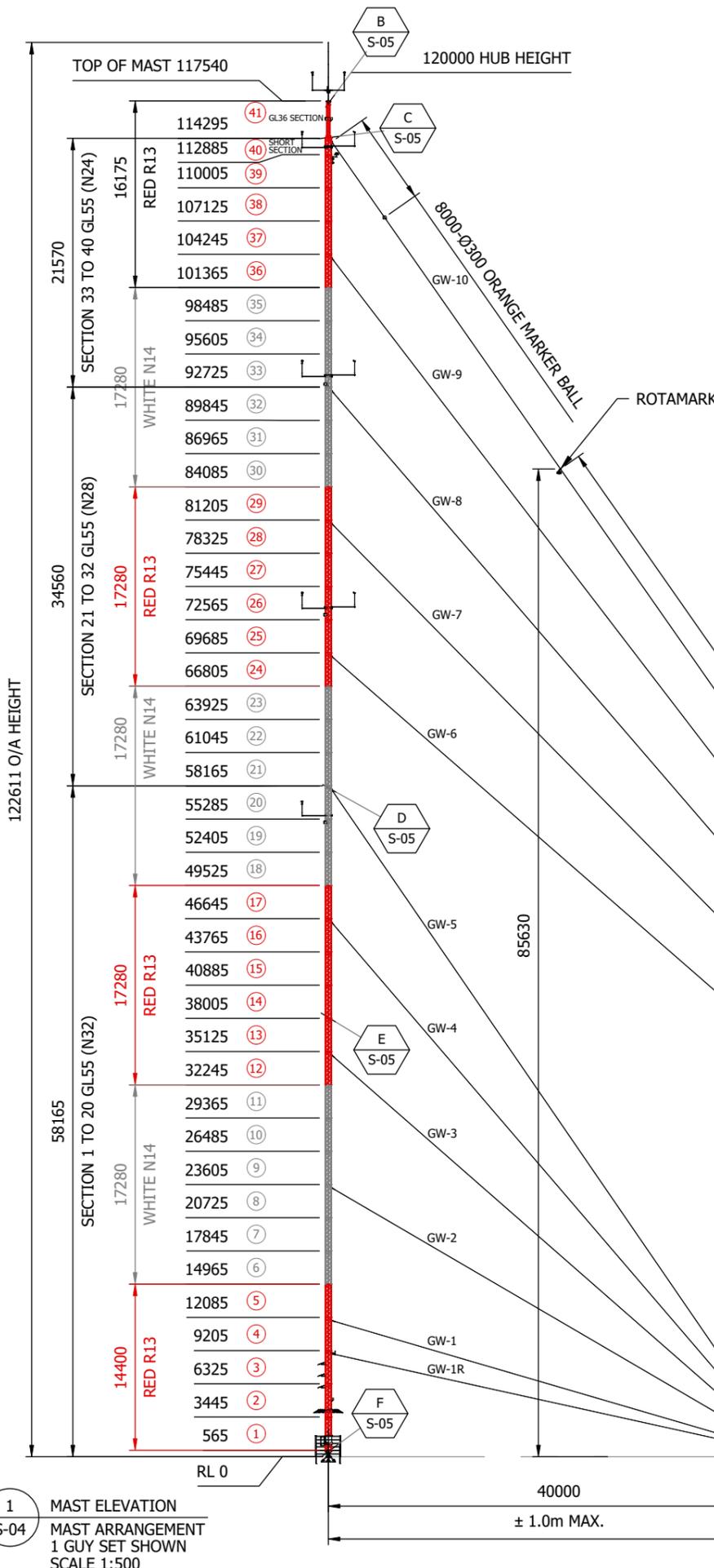
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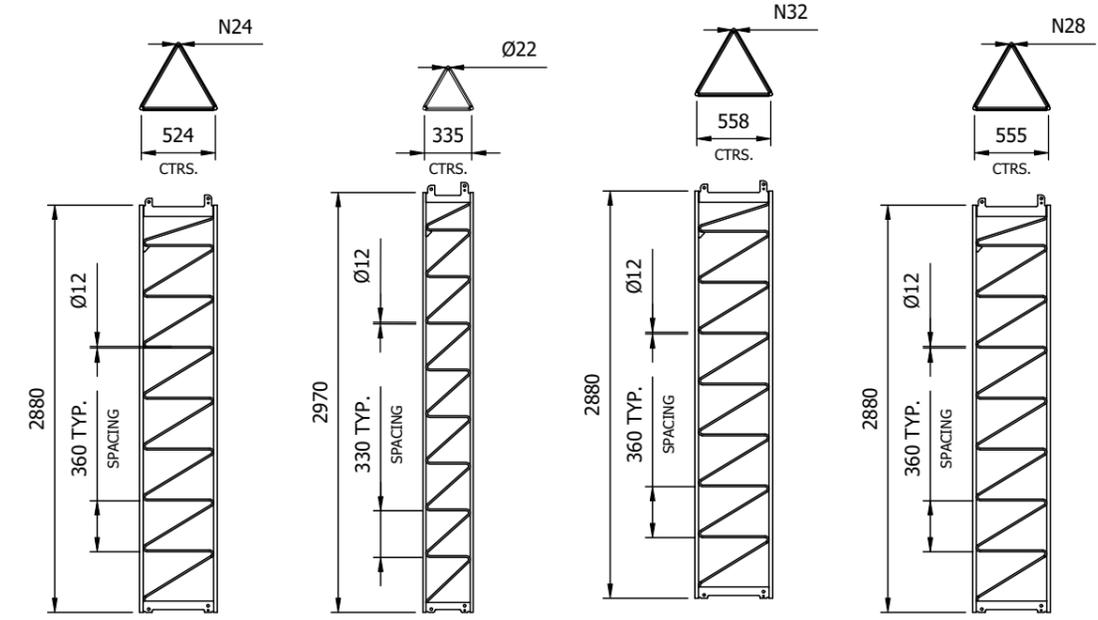
GUY WIRE SCHEDULE (RIGGING EQUIPMENT TO AS 1138. AS 2319. AS 2714. AS 2759. AS 4991.)

MARK	DESCRIPTION	HEIGHT	LENGTH	RADIUS	SIZE	PRE-TENSION	BOW & 'D' SHACKLE GALV. (GRADE S)	TURNBUCKLE GALV. (GRADE P)	FAN-WRAP GALV. (GRADE GFG 083)	THIMBLE GALV. (GRADE 3025)
GW-1R	GUY WIRE - Ø8.25 (7/2.75) G1320	8940	43000	40000	Ø8.25	3.5kN	22mm	5/8"	8.25mm	11mm
GW-1	GUY WIRE - Ø8.25 (7/2.75) G1320	11820	44000							
GW-2	GUY WIRE - Ø8.25 (7/2.75) G1320	23340	49000							
GW-3	GUY WIRE - Ø8.25 (7/2.75) G1320	34860	56000							
GW-4	GUY WIRE - Ø8.25 (7/2.75) G1320	46380	64000							
GW-5	GUY WIRE - Ø8.25 (7/2.75) G1320	57900	73000							
GW-6	GUY WIRE - Ø8.25 (7/2.75) G1320	69420	110000							
GW-7	GUY WIRE - Ø8.25 (7/2.75) G1320	80940	118000							
GW-8	GUY WIRE - Ø8.25 (7/2.75) G1320	92460	126000							
GW-9	GUY WIRE - Ø8.25 (7/2.75) G1320	103980	135000							
GW-10	GUY WIRE - Ø8.25 (7/2.75) G1320	114060	143000	80000	Ø8.25	3.5kN	19mm	8.25mm	11mm	
GW-10	GUY WIRE - Ø8.25 (7/2.75) G1320	114060	143000							

- NOTES
1. REFER TO GENERAL NOTES (SHEET 2) FOR MAST SPECIFICATIONS AND ART PROPRIETARY PRODUCT DISCLOSURE.
  2. REFER TO MAST ANCILLARY DETAILS (SHEET 6) FOR ANCILLARY DETAILS AND INFORMATION.
  3. REFER TO MAST FOOTING DETAILS (SHEET 7) FOR FOOTING DETAILS AND INFORMATION.
  4. LADSAFE CABLE GUIDE ATTACHMENT POINTS FOR 147 m MAST – SECTIONS 3, 6, 8, 11, 13, 16, 18, 21, 23, 26, 28, 31, 33, 36, 38.



1 MAST ELEVATION  
S-04 MAST ARRANGEMENT  
1 GUY SET SHOWN  
SCALE 1:500

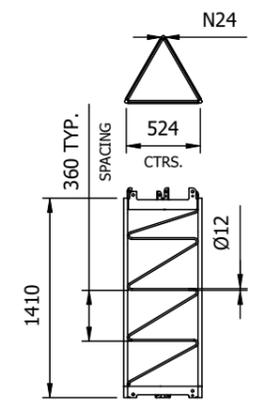


2 GLCP-0029  
S-04 GL55 SECTION  
N24 2880L  
\*SECTION No.33-39  
SCALE 1:50

3 GLCP-0025  
S-04 GL36 SECTION  
Ø22 2970L  
\*SECTION No.41  
SCALE: 1:50

4 GLCP-0036  
S-04 GL55 SECTION  
N32 2880L  
\*SECTION No.1-20  
SCALE 1:50

5 GLCP-0034  
S-04 GL55 SECTION  
N28 2880L  
\*SECTION No.21-32  
SCALE 1:50



6 GLCP-0038  
S-04 GL55 SECTION  
N24 1410L  
\*SECTION No.40  
SCALE 1:50

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SHEET TITLE  
MAST ELEVATION

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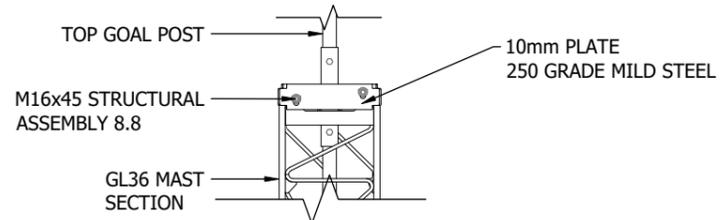
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AS SHOWN

THIRD ANGLE  
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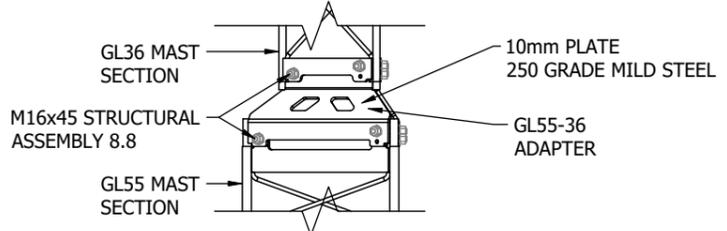
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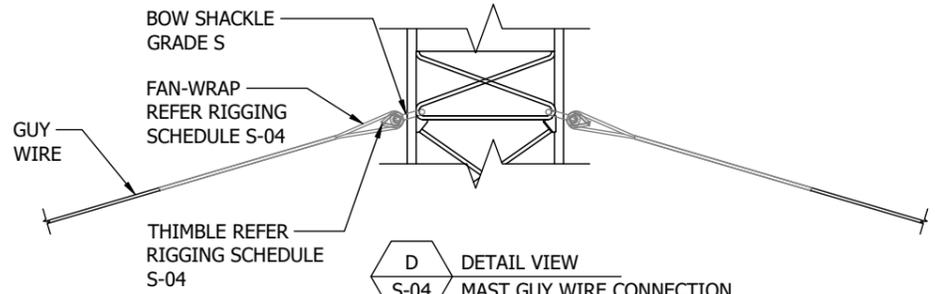
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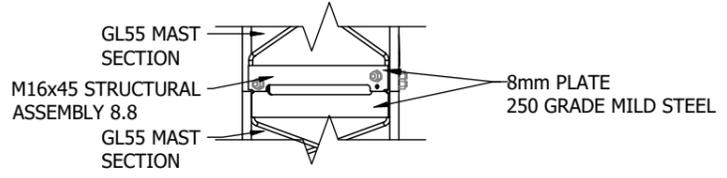
**B** DETAIL VIEW  
S-04 GOAL POST ADAPTER CONNECTION  
TYPICAL DETAIL  
SCALE 1:25



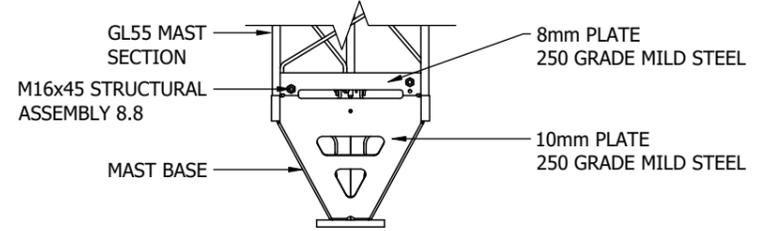
**C** DETAIL VIEW  
S-04 MAST ADAPTER CONNECTION  
TYPICAL DETAIL  
SCALE 1:25



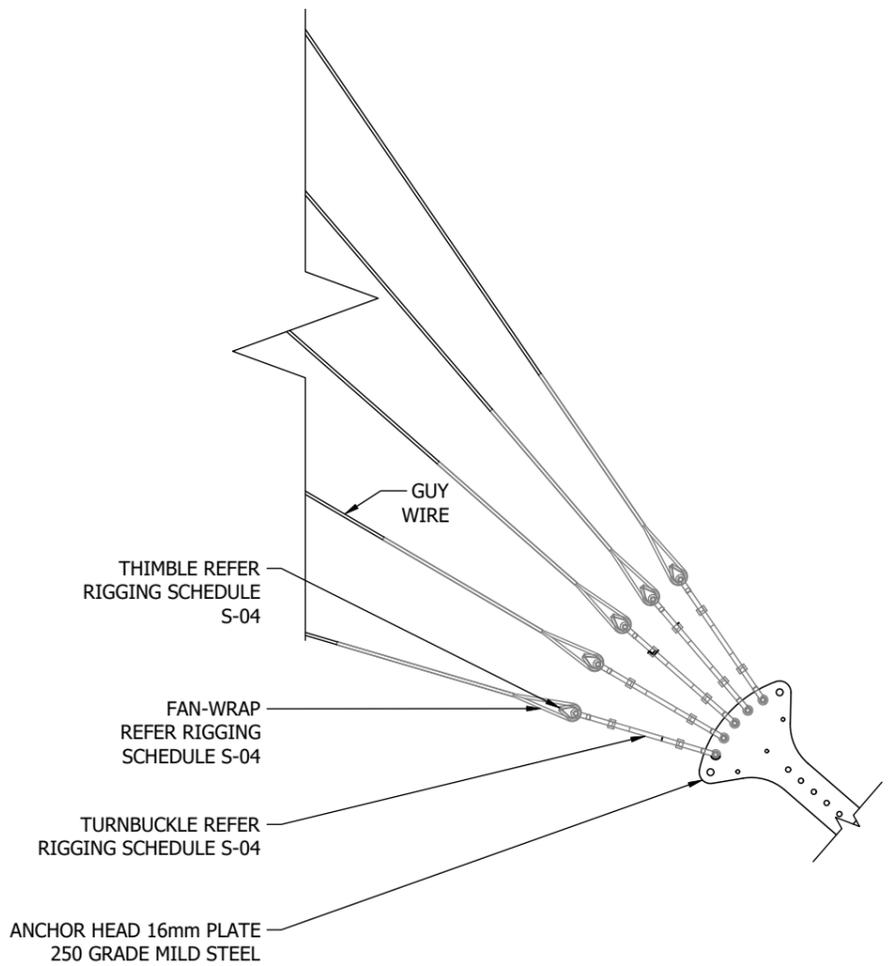
**D** DETAIL VIEW  
S-04 MAST GUY WIRE CONNECTION  
TYPICAL DETAIL  
SCALE 1:25



**E** DETAIL VIEW  
S-04 MAST CONNECTION  
TYPICAL DETAIL  
SCALE 1:25



**F** DETAIL VIEW  
S-04 MAST CONNECTION  
TYPICAL DETAIL  
SCALE 1:25



**A** DETAIL VIEW  
S-04 MAST GUY WIRE RIGGING  
TYPICAL DETAIL  
SCALE 1:25

REV	DESCRIPTION	DATE
01	REVISED LOCATION	09/03/26
00	ISSUED FOR CONSTRUCTION	3/02/26



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PROJECT  
GERALDTON, WA  
GERM02, 120M(NOM.) MET MAST  
GL55-36 GUYED LATTICE MAST  
TEMPORARY DEPLOYMENT

SHEET TITLE  
CONNECTIONS

STATUS **FOR CONSTRUCTION**

SCALE PLOTTED AT A3  
AS SHOWN

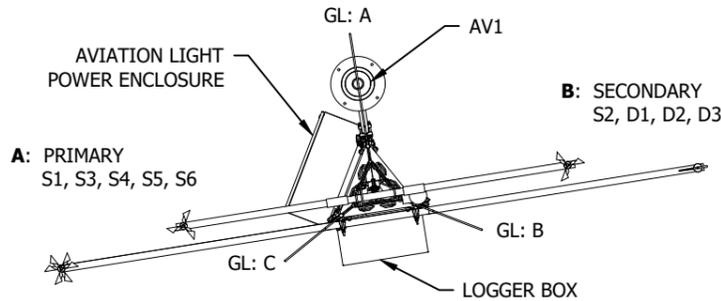
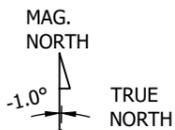
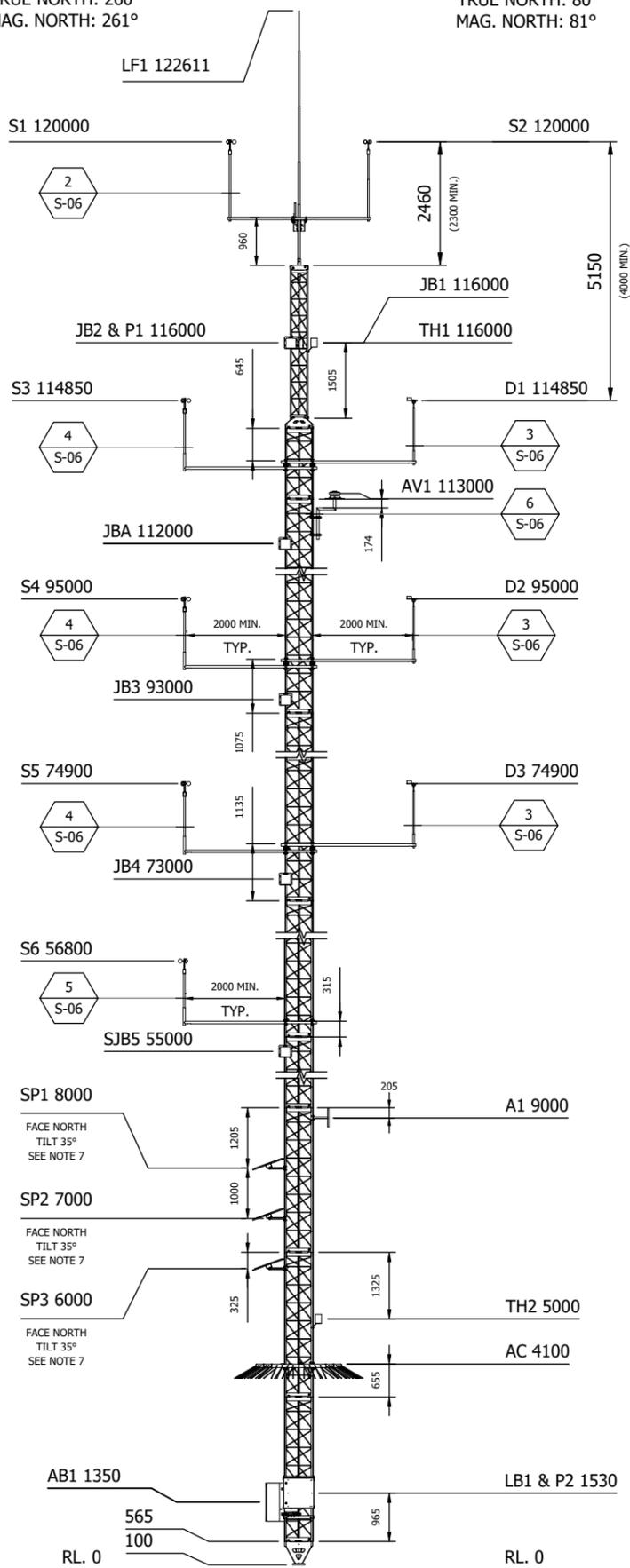
THIRD ANGLE  
PROJECTION

DRAWN	CHECKED	APPROVED	PROJ. MANAGER
CG	DM	DN	MJ

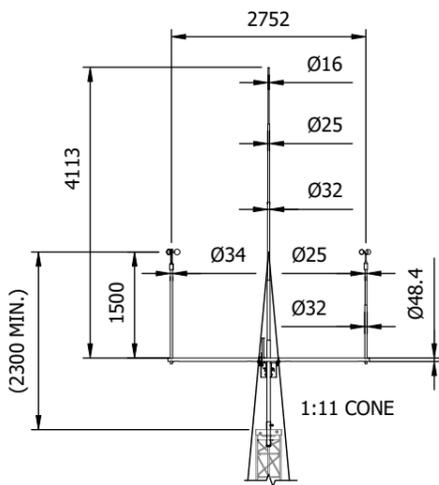
DRAWING NUMBER	SHEET	ISSUE
ART-240175-SGA-001	5 / 12	01

PRIMARY (A)  
TRUE NORTH: 260°  
MAG. NORTH: 261°

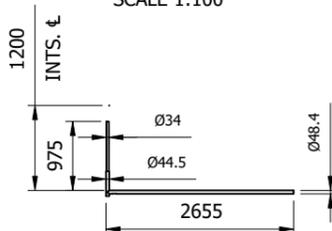
SECONDARY (B)  
TRUE NORTH: 80°  
MAG. NORTH: 81°



A PLAN VIEW  
S-03 DETAIL A  
BOOM ARM ORIENTATION  
SCALE: 1:50

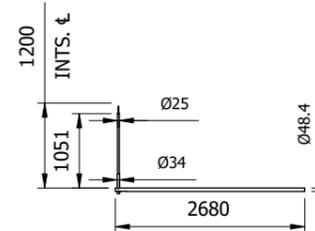


2 BAAS-0038  
S-06 TOP GOAL-POST  
25 & 34mm RISER - 60DEG  
SCALE 1:100

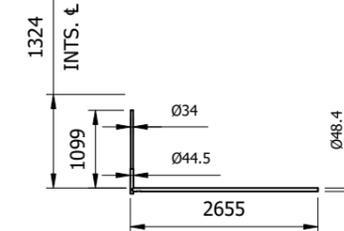


5 BACP-0116  
S-06 BOOM ARM  
TFC VANE / ANO  
SCALE 1:100

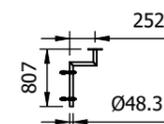
MARK	DESCRIPTION	HEIGHT	SECTION	ESA m <sup>2</sup>
LF1	LIGHTNING FINIAL	122611	TOP	0.56
S1	ANEMOMETER THIES FCA2	120000		
S2	WINDSENSOR P2546D			
JB1	JUNCTION BOX	116000	41	0.06
TH1	TEMP. & HUMIDITY GALTEC MELA KPC8			0.02
JB2	JUNCTION BOX			0.06
P1	PRESSURE SENSOR PTB110 (INSIDE JB2)			0.06
S3	ANEMOMETER THIES FCA2			0.22
D1	NRG 200M	114850	40	0.22
AV1	AVIATION LIGHT MEDIUM INTENSITY RED FLASHING 24H (AV-OL-MI-DC-01)	113000	39	0.02
JBA	AVIATION LIGHT JUNCTION BOX	112000		0.06
S4	ANEMOMETER THIES FCA2	95000	33	0.22
D2	NRG 200M			0.22
JB3	JUNCTION BOX	93000		0.06
S5	ANEMOMETER THIES FCA2	74900	26	0.22
D3	NRG 200M			0.22
JB4	JUNCTION BOX	73000		0.06
S6	ANEMOMETER THIES FCA2	56800	20	0.22
SJB5	SMALL JUNCTION BOX	55000	19	0.06
A1	ANTENNA OMNI COL8195	9000	3	0.02
SP1	SOLAR PANEL SOLAWAT 50w	8000		0.33
SP2	SOLAR PANEL SOLAWAT 50w	7000		0.33
SP3	SOLAR PANEL SOLAWAT 50w	6000	2	0.33
TH2	TEMP. & HUMIDITY GALTEC MELA KPC8	5000		0.02
AC1	ANTI CLIMB TO SUIT GL55 N32 MAST SECTION	4100		0.27
LB1	CAMPBELL SCIENTIFIC DATA LOGGER CR1000X	1530	1	0.27
P2	PRESSURE SENSOR PTB110 (INSIDE LB1)			0.27
AB1	AVIATION LIGHT POWER ENCLOSURE	1350		0.27
TOTAL ESA m <sup>2</sup>				4.34



3 BACP-0114  
S-06 BOOM ARM  
NRG 200M - LOWER  
SCALE 1:100



4 BACP-0117  
S-06 BOOM ARM  
TFC VANE / ANO  
SCALE 1:100



6 MOAS-0016  
S-06 BOOM ARM  
AVIATION LIGHT MOUNT  
SCALE 1:100

- NOTES
- STRUCTURAL ALLOWANCE FOR BUNDLED CABLES DOWN MAST LEG(S).
  - ESA VALUES INCLUDE BOOM ARMS, BRACKETS AND INSTRUMENTS.
  - SIDE MOUNTED INSTRUMENT SEPARATION >20x BOOM DIAMETER.
  - INTERFERENCE CLEARANCE >30x GUY WIRE Ø.
  - ALL ANEMOMETERS SHALL BE CALIBRATED TO MEASNET.
  - MET MAST LAYOUT COMPLIES WITH IEC 61400-12-1 ED1 AND ED2.
  - SOLAR PANEL ANGLE SHALL BE SET FOR BEST AVERAGE PERFORMANCE THROUGHOUT THE YEAR. RECOMMENDED ANGLES SHOULD BE BASED ON LATITUDE.

REV	DESCRIPTION	DATE
01	REVISED LOCATION	09/03/26
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PROJECT  
GERALDTON, WA  
GERM02, 120M(NOM.) MET MAST  
GL55-36 GUYED LATTICE MAST  
TEMPORARY DEPLOYMENT

SHEET TITLE  
MAST ANCILLARY

STATUS **FOR CONSTRUCTION**

SCALE PLOTTED AT A3  
AS SHOWN

DRAWN CG	CHECKED HK	APPROVED PB	PROJ. MANAGER MJ
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DRAWING NUMBER ART-240175-SGA-001	SHEET 6 / 12	ISSUE 01
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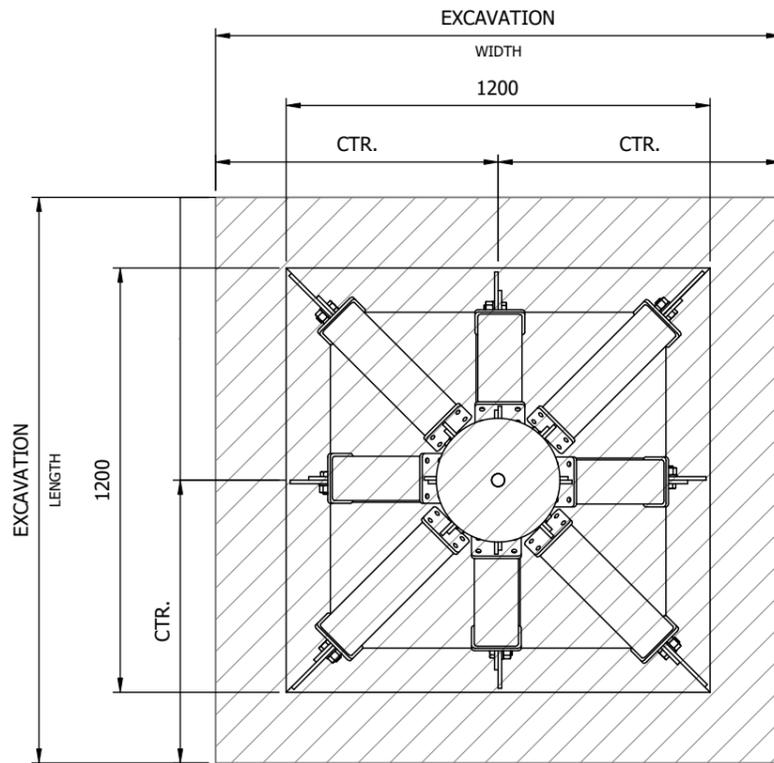
1 ELEVATION VIEW  
S-06 MAST ANCILLARIES  
SCALE 1:125

MAST BASE FOUNDATION					
EXCAV. WIDTH	EXCAV. LENGTH	EXCAV. DEPTH	SELECT FILL DEPTH	BLUE METAL VOL. (m <sup>3</sup> )	CEMENT (kg)
1600	1600	962	500	1.28	310

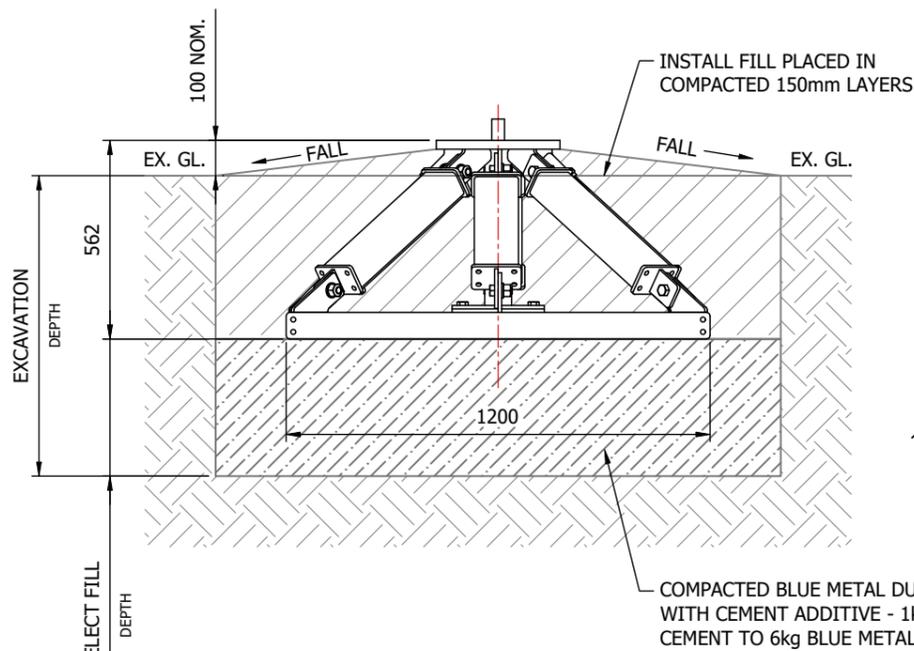
GUY ANCHOR FOOTING SCHEDULE													
FOOTING	RADIUS	No. GUYS	EXCAV. WIDTH	EXCAV. LENGTH	EXCAV. DEPTH	BEAM LENGTH	ANGLE	DIM A	DIM B	DIM C	GROUT WEIGHT (kg)	PVC TUBE (mm)	ANCHOR HEAD
INNER	40000	6	800	3400	1500	3000	41°	1648	400	2500	68	2600	7 HOLE
OUTER	80000	5	800	4900	1500	4500	49°	1275	400	2200	59	2300	7 HOLE

NOTES

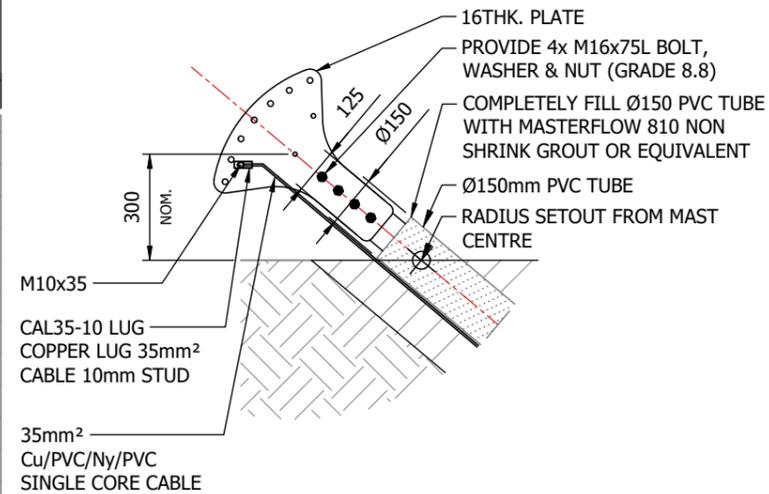
- REFER TO GENERAL NOTES (SHEET 2) GUY ANCHOR CONCRETE & COMPACTION SPECIFICATIONS.
- IN ORDER TO MEET REQUIRED DEPTH, ANCHORS NEED CUSTOM ADJUSTABLE ANCHOR ARMS (SEE ANCHOR PLATE SCHEDULE TABLE)



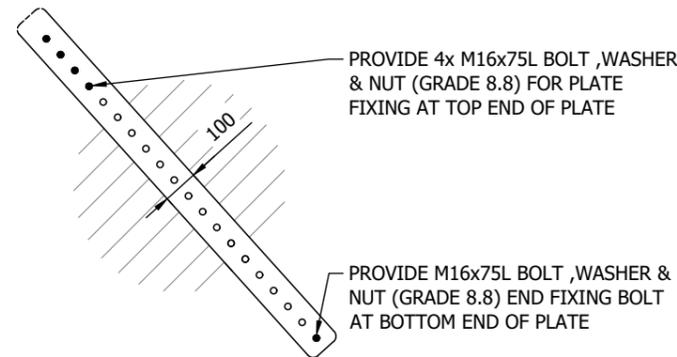
1 PLAN VIEW  
S-07 BURIED STEEL MAST FOUNDATION  
STEEL IS SHOWN FOR CLARITY  
TYPICAL DETAIL



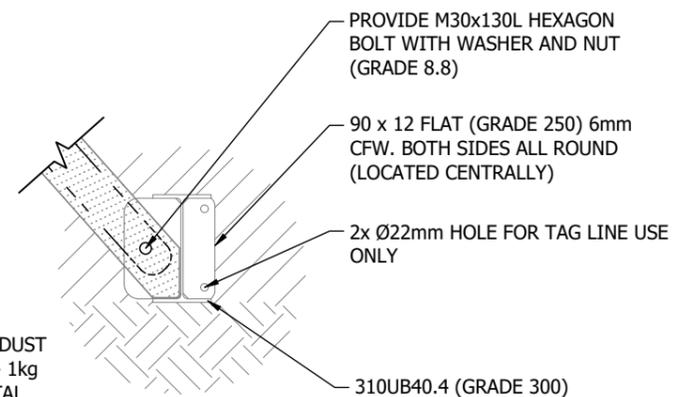
2 ELEVATION VIEW  
S-07 BURIED STEEL MAST FOUNDATION  
STEEL IS SHOWN FOR CLARITY  
TYPICAL DETAIL



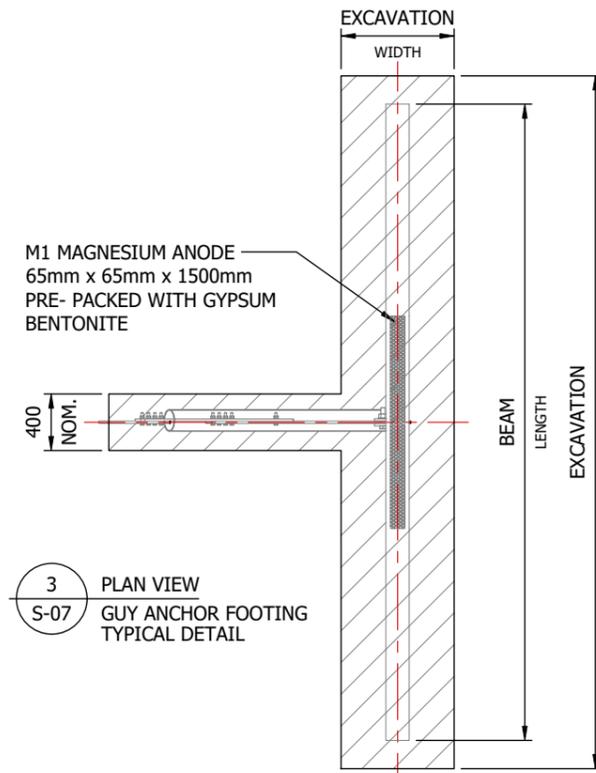
A S-07 DETAIL VIEW  
ANCHOR HEAD ASSEMBLY  
TYPICAL DETAIL



B S-07 DETAIL VIEW  
ANCHOR ROD CONNECTION  
PVC TUBE & EARTH NOT SHOWN FOR CLARITY  
TYPICAL DETAIL

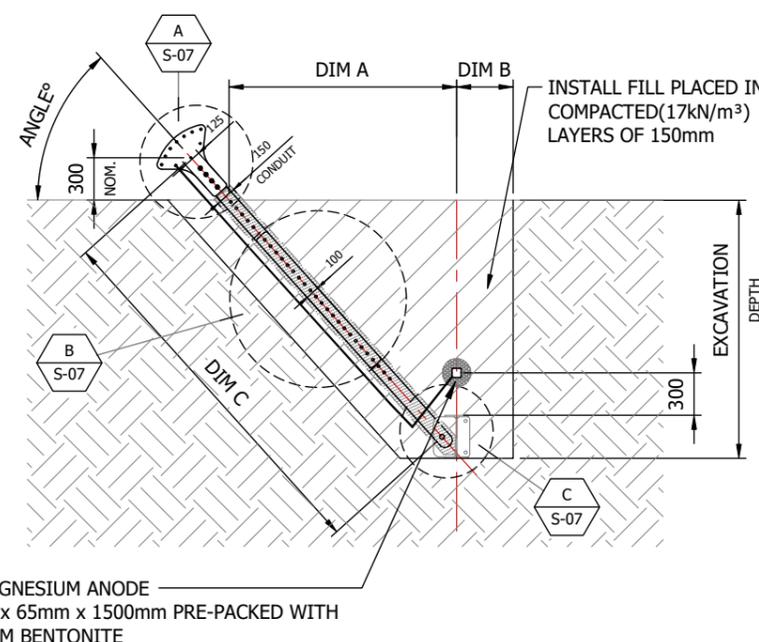


C S-07 DETAIL VIEW  
ANCHOR BEAM ASSEMBLY  
TYPICAL DETAIL



3 PLAN VIEW  
S-07 GUY ANCHOR FOOTING  
TYPICAL DETAIL

ANCHOR PLATE SCHEDULE			
FOOTING	ANCHOR ARM BASE	ANCHOR BOLTED ARM CENTER	ANCHOR HEAD 7 HOLE
INNER	ANPA-0080_00	ANPA-0080_00	ANPA-0053_01
OUTER	ANPA-0080_00	ANPA-0080_00	ANPA-0053_01



4 ELEVATION VIEW  
S-07 GUY ANCHOR FOOTING  
ANCHOR ASSEMBLY SHOWN FOR CLARITY  
TYPICAL DETAIL

REV	DESCRIPTION	DATE
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PROJECT  
GERALDTON, WA  
GERM02, 120M(NOM.) MET MAST  
GL55-36 GUYED LATTICE MAST  
TEMPORARY DEPLOYMENT

SHEET TITLE  
MAST FOOTING

STATUS **FOR CONSTRUCTION**

SCALE PLOTTED AT A3  
AS SHOWN

THIRD ANGLE PROJECTION

DRAWN CG	CHECKED DM	APPROVED DN	PROJ. MANAGER MJ
DRAWING NUMBER ART-240175-SGA-001			SHEET 7 / 12
			ISSUE 01

NOTES

1. REFER TO GENERAL NOTES (SHEET 2) FOR EARTHING SPECIFICATIONS.
2. FOOTINGS SHOWN FOR INDICATIVE PURPOSE ONLY REFER TO MAST FOOTING AND FOUNDATION DETAILS (SHEET 7).

REV	DESCRIPTION	DATE
01	REVISED LOCATION	09/03/26
00	ISSUED FOR CONSTRUCTION	3/02/26



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PROJECT  
GERALDTON, WA  
GERM02, 120M(NOM.) MET MAST  
GL55-36 GUYED LATTICE MAST  
TEMPORARY DEPLOYMENT

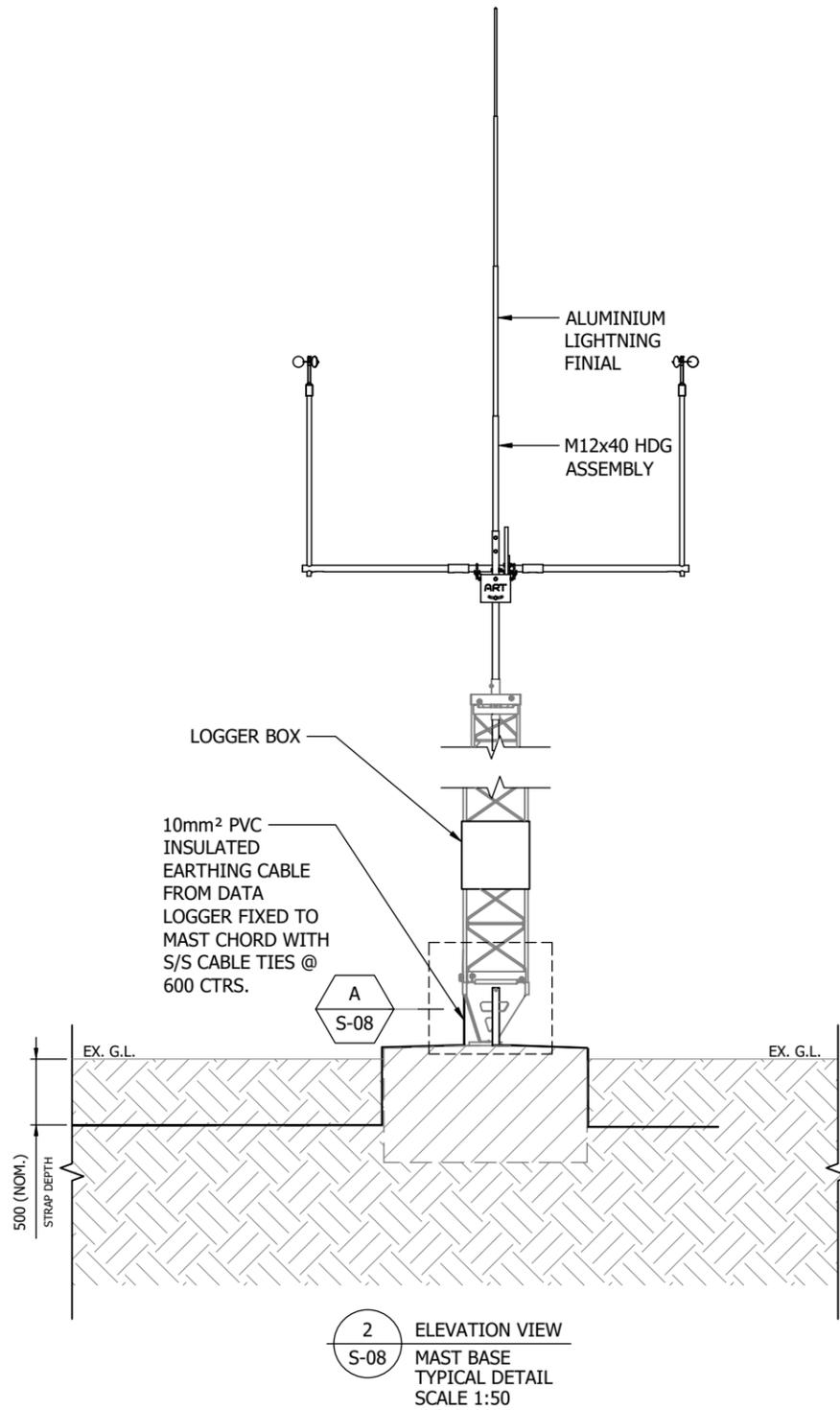
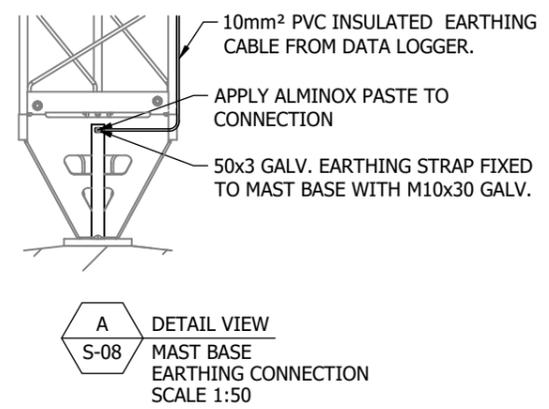
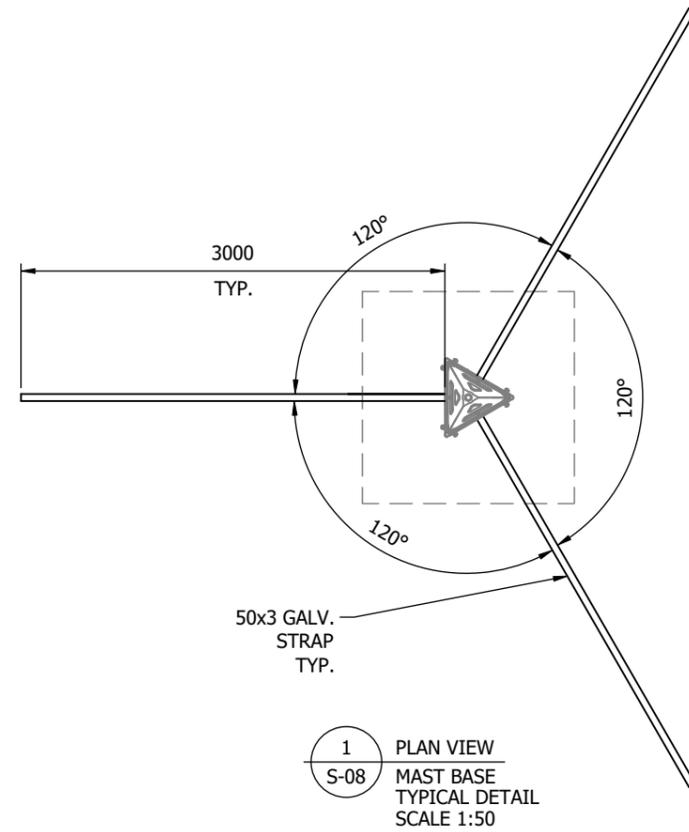
SHEET TITLE  
EARTHING G.A.

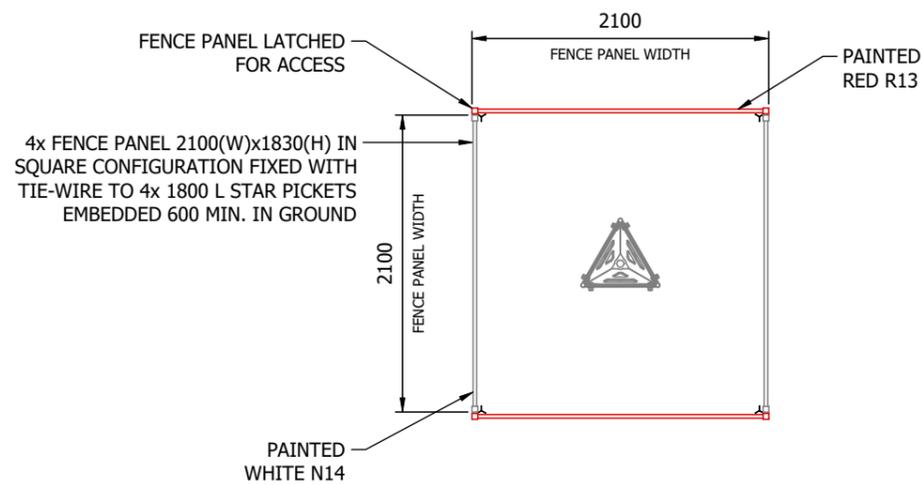
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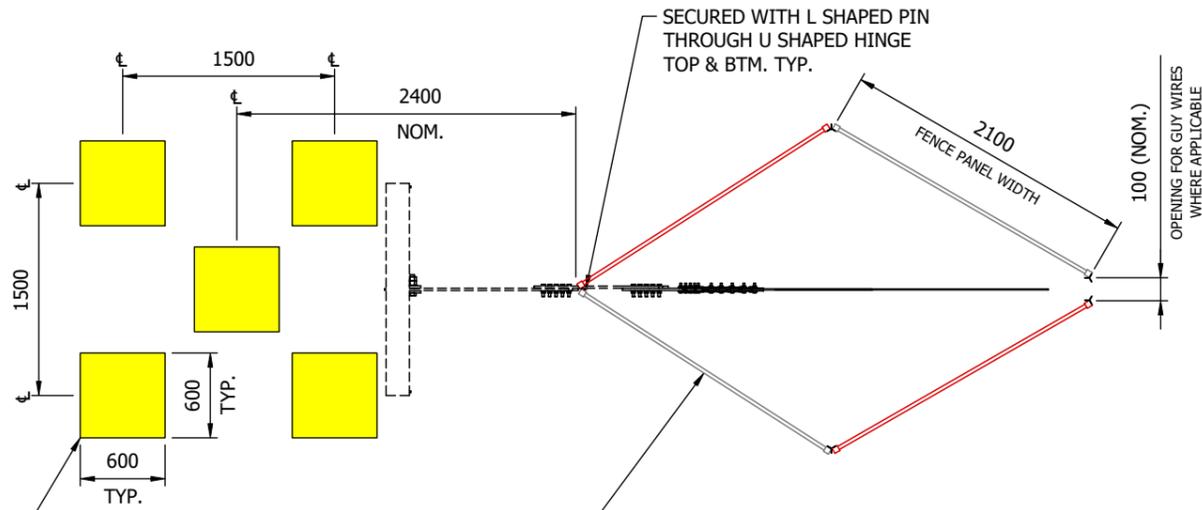
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DRAWING NUMBER ART-240175-SGA-001	SHEET 8 / 12	ISSUE 01
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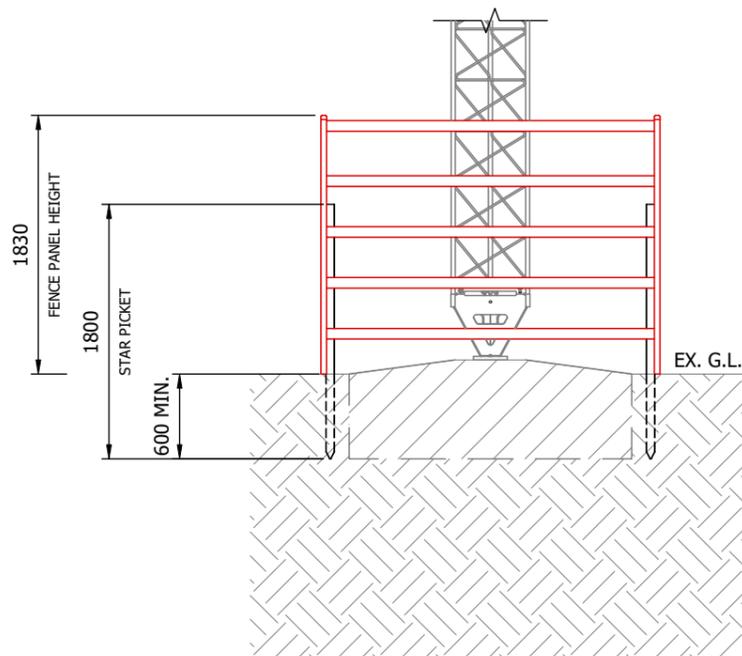
1 PLAN VIEW  
S-09 MAST BASE FENCING  
TYPICAL DETAIL



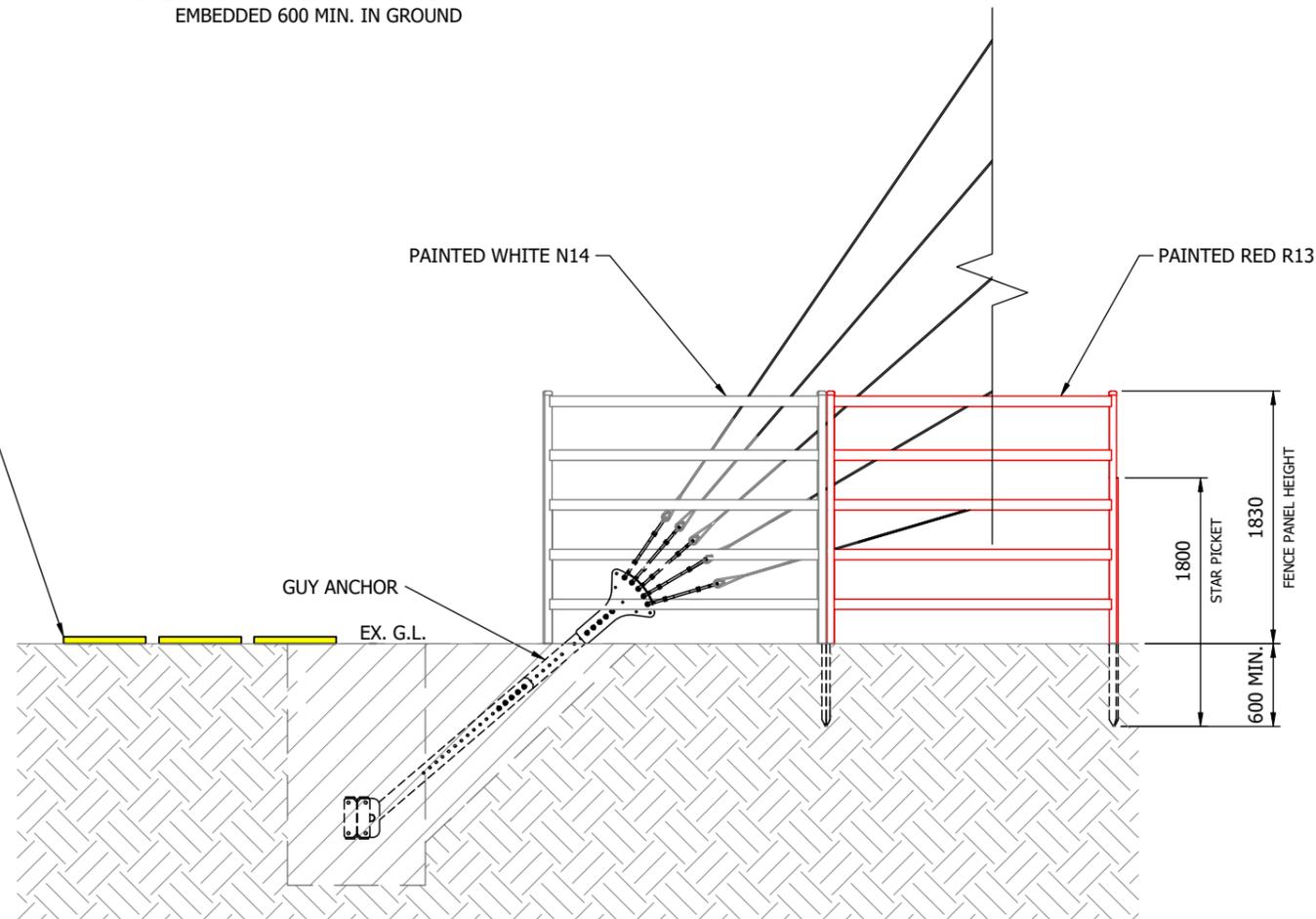
3 PLAN VIEW  
S-09 GUY ANCHOR FENCING  
TYPICAL DETAIL

5x YELLOW (CANARY Y11) 600x600x50 GROUND ANCHOR MARKING TYP. @ EACH OUTER ANCHOR

4x FENCE PANEL 2100(W)x1830(H) IN DIAMOND CONFIGURATION FIXED WITH TIE-WIRE TO 4x 1800L STAR PICKETS WITH NO OPENING OR 5x 1800L STAR PICKETS WITH OPENING STAR PICKETS EMBEDDED 600 MIN. IN GROUND



2 ELEVATION VIEW  
S-09 MAST BASE FENCING  
TYPICAL DETAIL



4 ELEVATION VIEW  
S-09 GUY ANCHOR FENCING  
TYPICAL DETAIL

NOTES

1. POSITION STAR PICKETS BEHIND FENCE PANELS.
2. NO SHARP EDGES ON THE OUTSIDE OF FENCE PANELS.
3. INNER ANCHOR - 4 PANELS & 5 STAR PICKETS (OPENING).
4. OTHER ANCHOR(S) - 4 PANELS & 4 STAR PICKETS.
5. FOOTINGS SHOWN FOR INDICATIVE PURPOSE ONLY REFER TO MAST FOOTING AND FOUNDATION DETAILS (SHEET 7).

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PROJECT  
GERALDTON, WA  
GERM02, 120M(NOM.) MET MAST  
GL55-36 GUYED LATTICE MAST  
TEMPORARY DEPLOYMENT

SHEET TITLE  
FENCING G.A.

STATUS **FOR CONSTRUCTION**

SCALE PLOTTED AT A3  
1:50

THIRD ANGLE PROJECTION

DRAWN CG	CHECKED DM	APPROVED PB	PROJ. MANAGER MJ
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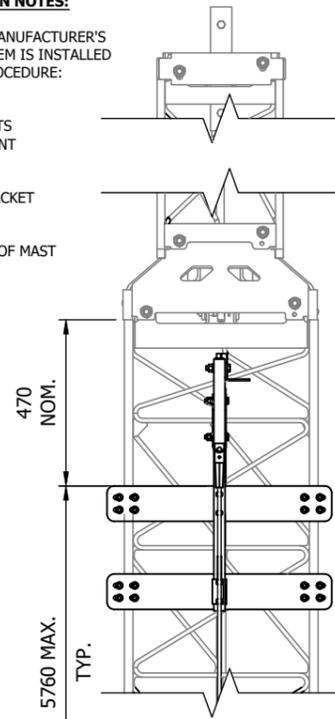
DRAWING NUMBER ART-240175-SGA-001	SHEET 9 / 12	ISSUE 01
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**LAD-SAF FALL ARREST SYSTEM INSTALLATION NOTES:**

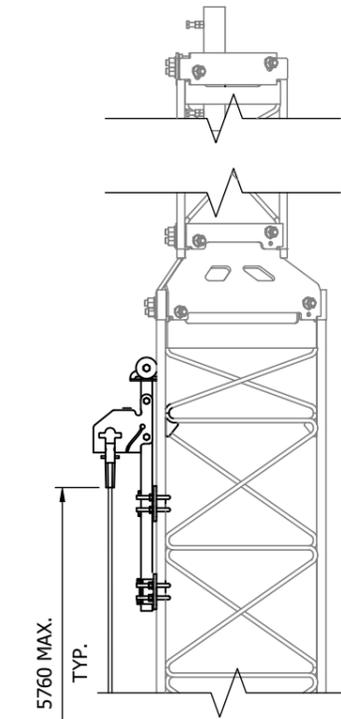
INSTALL LAD-SAF FALL ARREST SYSTEM AS PER MANUFACTURER'S SPECIFICATIONS. GENERALLY, THE LAD-SAF SYSTEM IS INSTALLED FROM THE TOP DOWN WITH THE FOLLOWING PROCEDURE:

1. INSTALL THE TOP BRACKETS
2. INSTALL THE TOP COMPONENT TO BRACKETS
3. INSTALL THE CABLE TO THE TOP COMPONENT
4. INSTALL THE CABLE GUIDES
5. INSTALL THE BOTTOM BRACKET
6. INSTALL THE BOTTOM COMPONENT TO BRACKET
7. TENSION THE CABLE
8. INSPECT THE INSTALLATION
9. INSTALL THE i-SAFE RFID TAG AT BOTTOM OF MAST

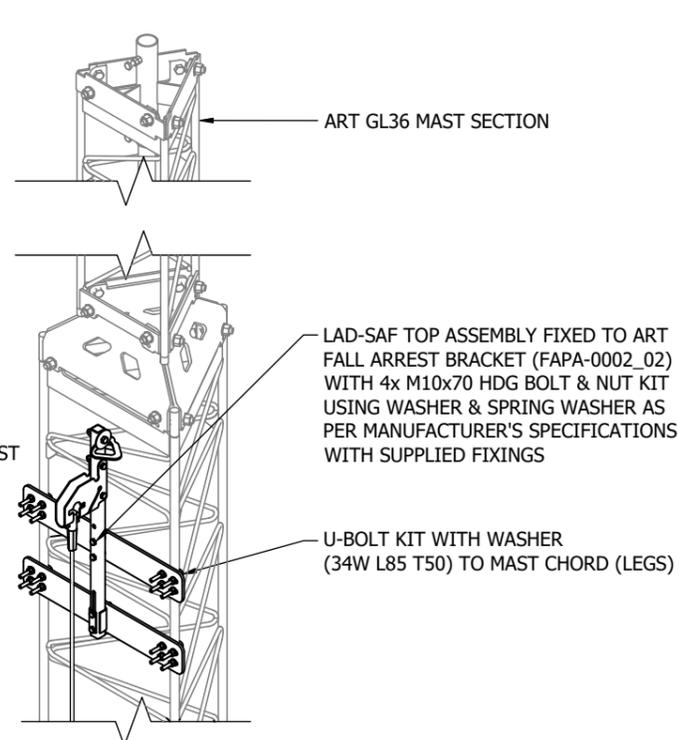
1 FRONT VIEW  
S-10 LAD-SAF FALL ARREST TOP ASSEMBLY GL55/36 MAST TYPICAL DETAIL



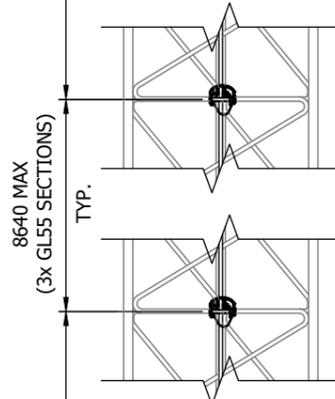
4 SIDE VIEW  
S-10 LAD-SAF FALL ARREST TOP ASSEMBLY GL55/36 MAST TYPICAL DETAIL



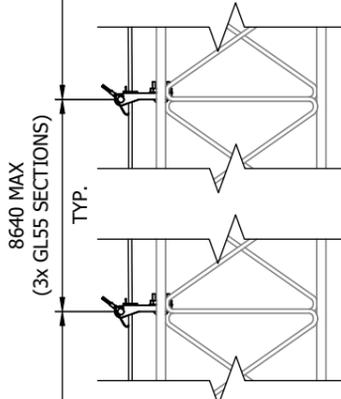
7 ISOMETRIC VIEW  
S-10 LAD-SAF FALL ARREST TOP ASSEMBLY GL55/36 MAST TYPICAL DETAIL



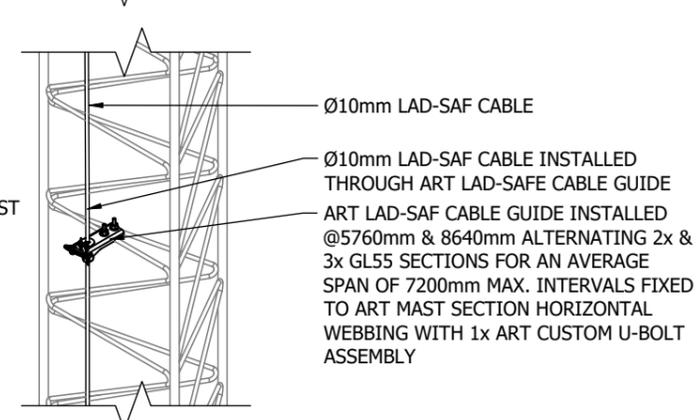
2 FRONT VIEW  
S-10 LAD-SAF FALL ARREST CABLE GUIDE GL55/36 MAST TYPICAL DETAIL



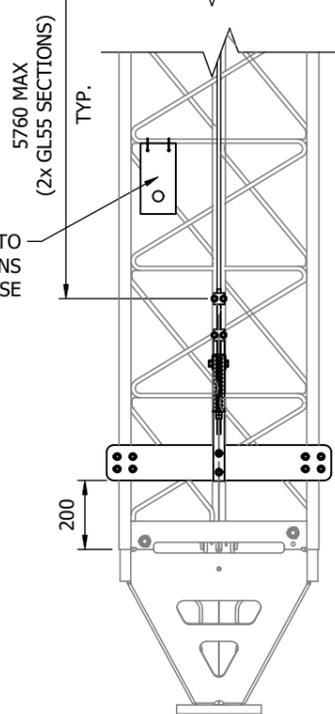
5 SIDE VIEW  
S-10 LAD-SAF FALL ARREST CABLE GUIDE GL55/36 MAST TYPICAL DETAIL



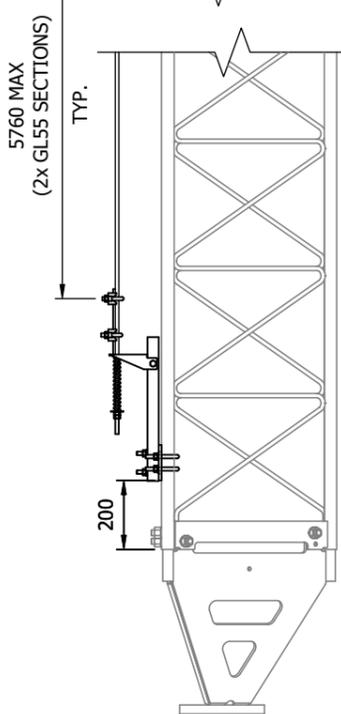
8 ISOMETRIC VIEW  
S-10 LAD-SAF FALL ARREST CABLE GUIDE GL55/36 MAST TYPICAL DETAIL



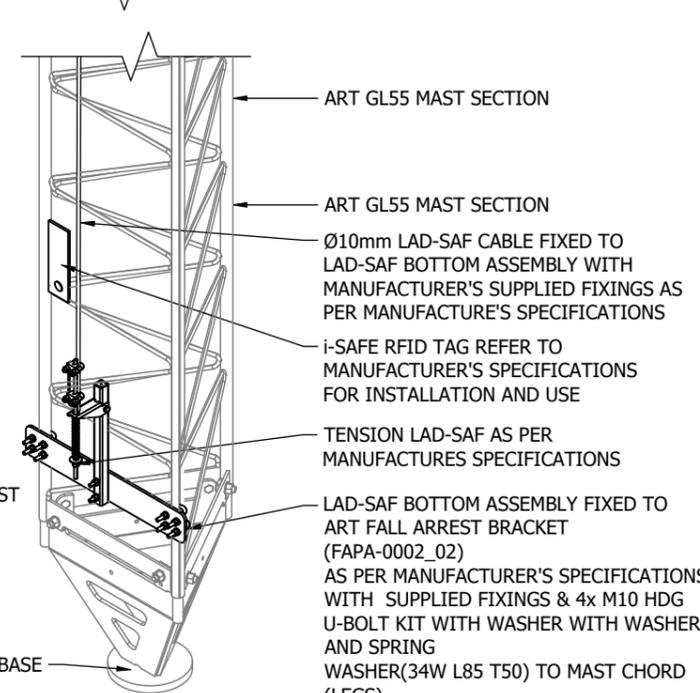
3 FRONT VIEW  
S-10 LAD-SAF FALL ARREST BOTTOM ASSEMBLY GL55/36 MAST TYPICAL DETAIL



6 SIDE VIEW  
S-10 LAD-SAF FALL ARREST BOTTOM ASSEMBLY GL55/36 MAST TYPICAL DETAIL



9 ISOMETRIC VIEW  
S-10 LAD-SAF FALL ARREST BOTTOM ASSEMBLY GL55/36 MAST TYPICAL DETAIL



NOTES

1. USE SPRING WASHERS WHERE REQUIRED.
2. CHECK ALL FASTNERS ARE PROPERLY TIGHTENED.
3. CLEAN ALL SURFACES BEFORE APPLYING REFLECTORS.

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PROJECT  
GERALDTON, WA  
GERM02, 120M(NOM.) MET MAST  
GL55-36 GUYED LATTICE MAST  
TEMPORARY DEPLOYMENT

SHEET TITLE  
FALL ARREST G.A.

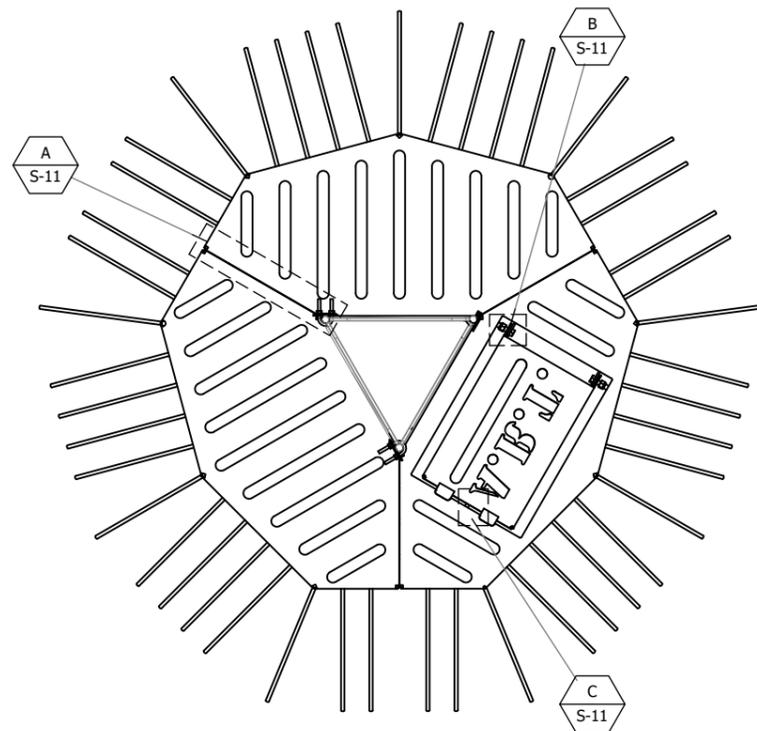
STATUS **FOR CONSTRUCTION**

SCALE PLOTTED AT A3  
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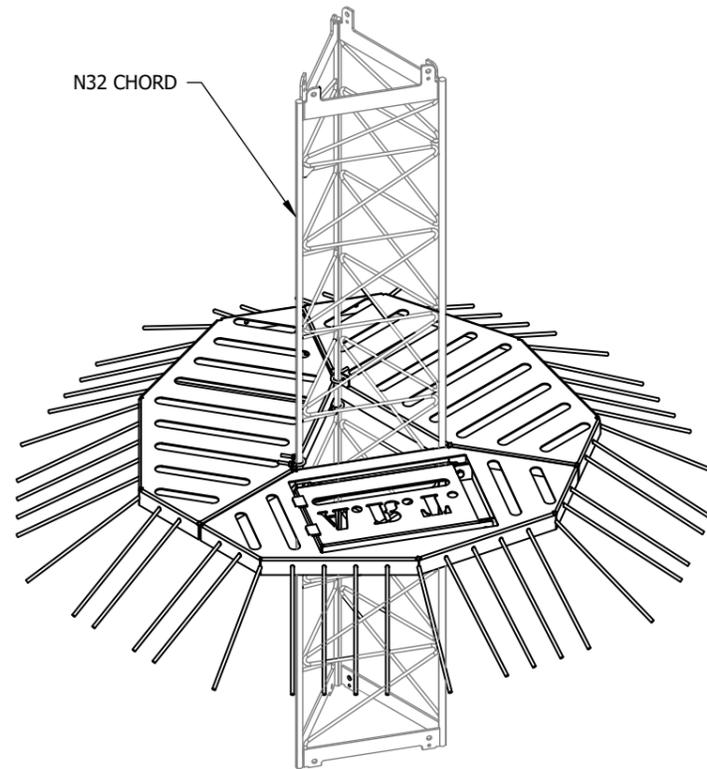
THIRD ANGLE  
PROJECTION

DRAWN CG	CHECKED DM	APPROVED DN	PROJ. MANAGER MJ
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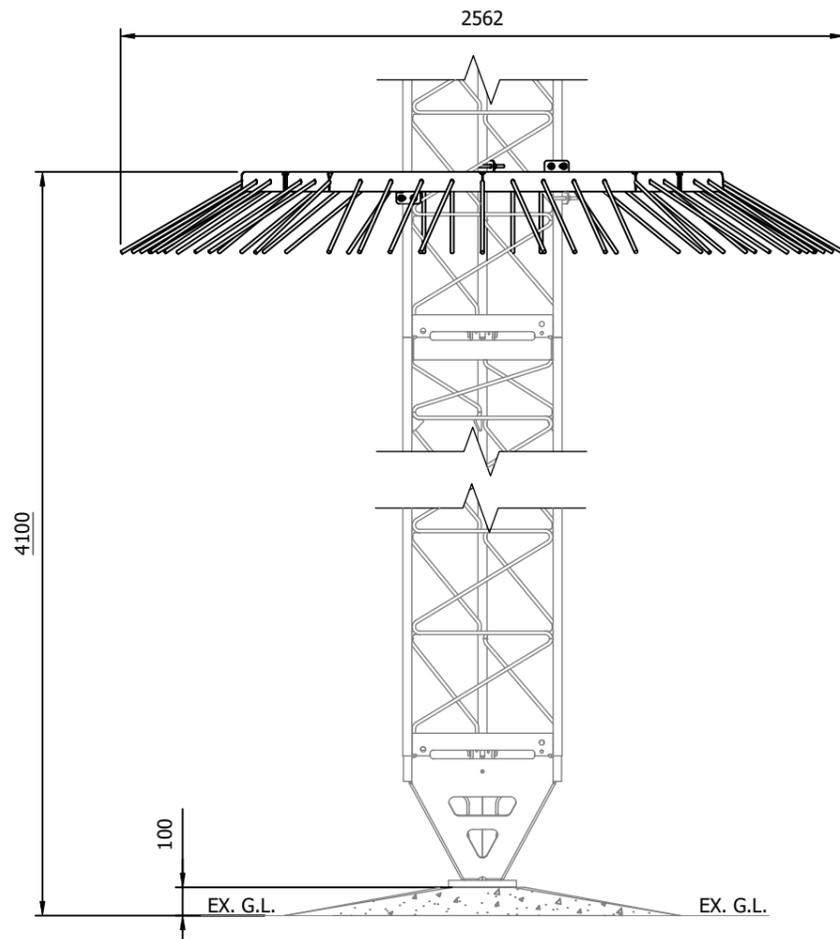
DRAWING NUMBER ART-240175-SGA-001	SHEET 10/12	ISSUE 01
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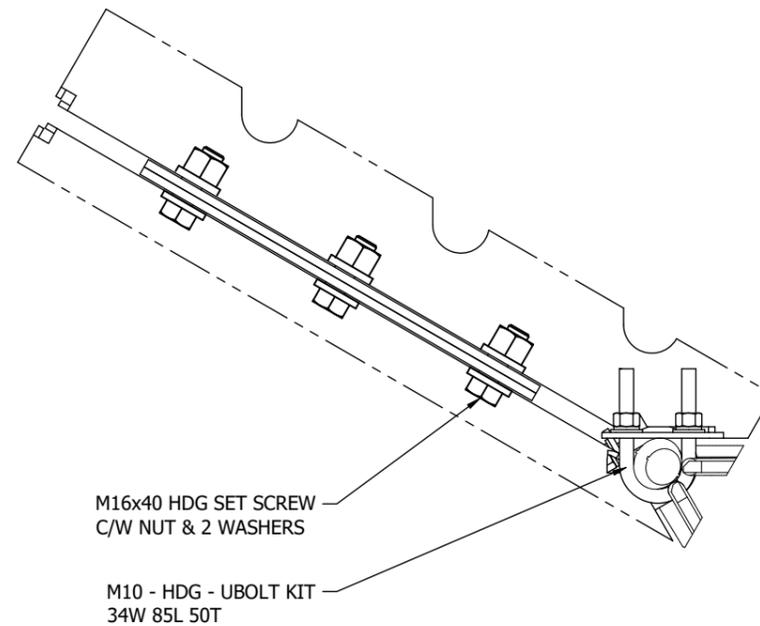
1 TOP VIEW  
S-11 GL55 N32 CHORD  
SCALE 1:25



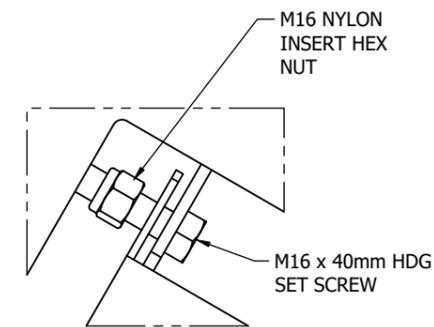
3 ISOMETRIC VIEW  
S-11 GL55 N32 CHORD  
SCALE N.T.S.



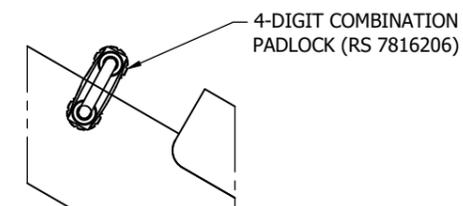
2 TYPICAL ELEVATION  
S-11 GL55 N32 CHORD  
SCALE 1:25



A DETAIL A  
S-11 SCALE 1:5



B DETAIL A  
S-11 SCALE 1:5



C DETAIL A  
S-11 SCALE 1:5

NOTES

1. USE SPRING WASHERS WHERE REQUIRED.
2. CHECK ALL FASTNERS ARE PROPERLY TIGHTENED.
3. CLEAN ALL SURFACES BEFORE APPLYING REFLECTORS.

REV	DESCRIPTION	DATE
01	REVISED LOCATION	09/03/26
00	ISSUED FOR CONSTRUCTION	3/02/26



119-125 QUARRY ROAD  
MURWILLUMBAH, 2484, NSW  
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CLIENT



PROJECT  
GERALDTON, WA  
GERM02, 120M(NOM.) MET MAST  
GL55-36 GUYED LATTICE MAST  
TEMPORARY DEPLOYMENT

SHEET TITLE  
ANTI CLIMB TO SUIT N32 G.A.

STATUS **FOR CONSTRUCTION**

SCALE PLOTTED AT A3  
AS SHOWN

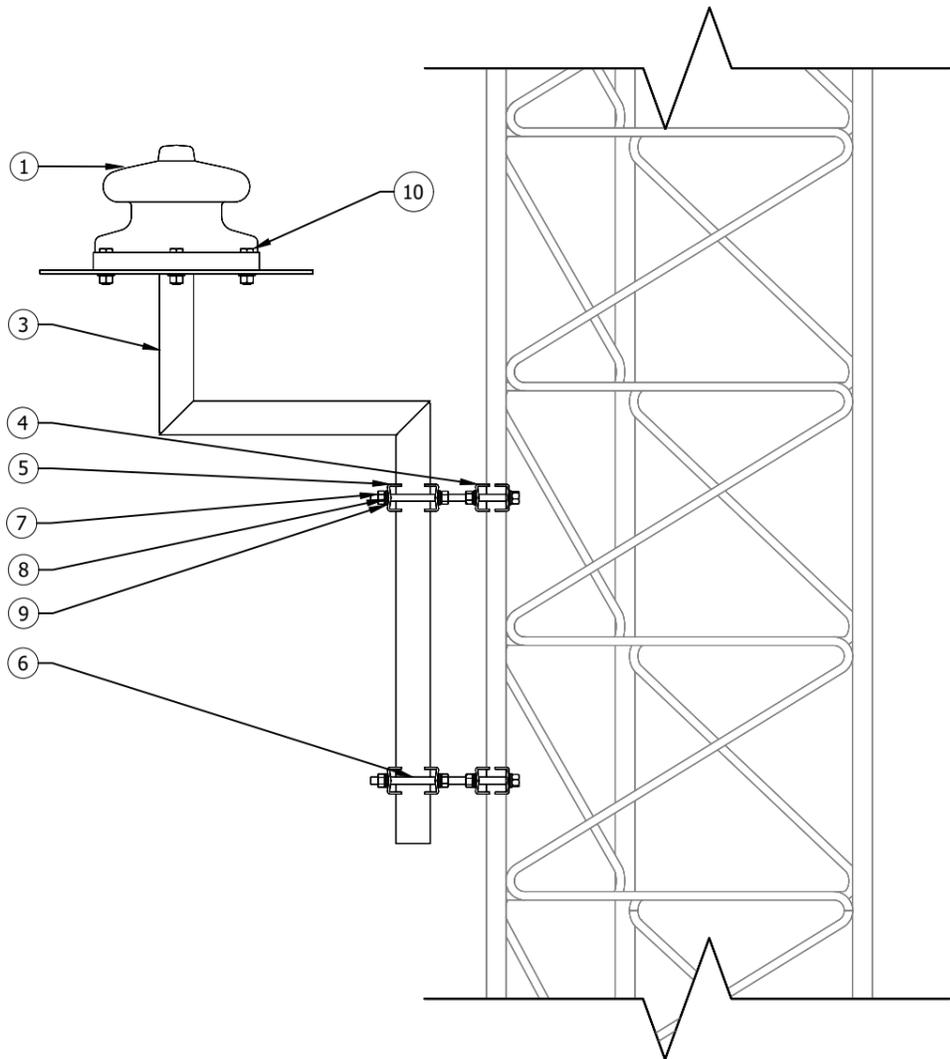
THIRD ANGLE  
PROJECTION

DRAWN CG	CHECKED DM	APPROVED DN	PROJ. MANAGER MJ
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DRAWING NUMBER ART-240175-SGA-001	SHEET 11/12	ISSUE 01
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**MATERIAL LIST (TABLE 1)**

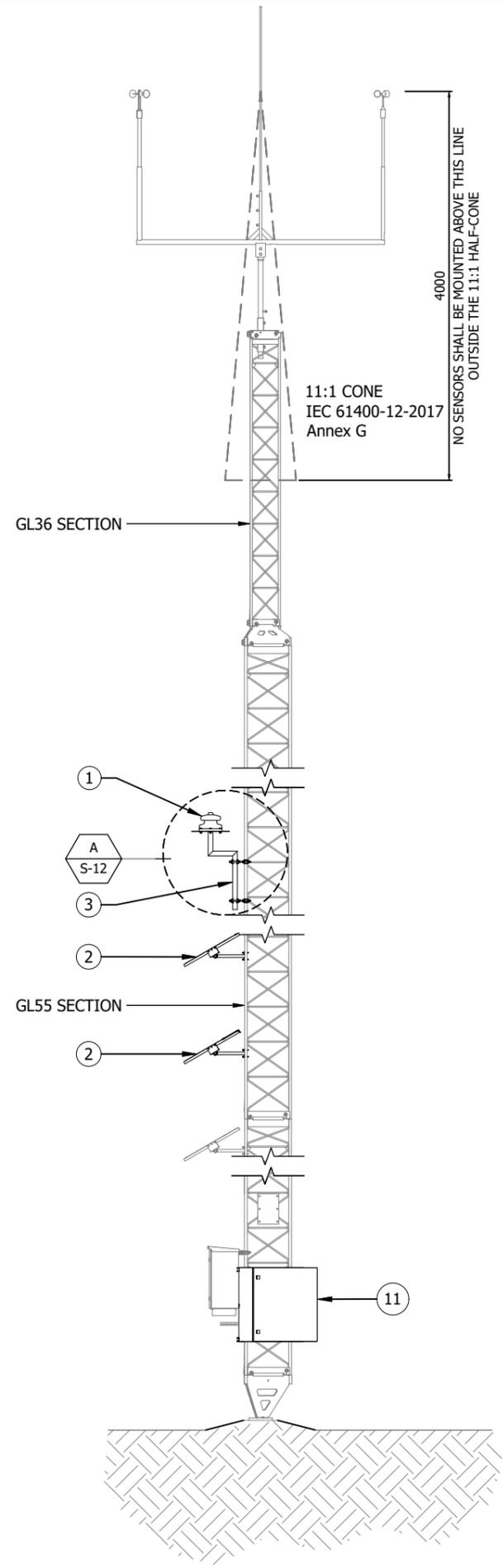
ITEM No.	PARTNo.	DESCRIPTION	QTY.
1		AVIATION LIGHT (AVLIGHT AV-OL-MI-DC-01)	1
2		SOLAR PANEL SOLAWAT 50w FOR AVIATION LIGHT	2
3	MOAS-0016	STAND-OFF MOUNT	1
4	BRPA-0017	SQUASHED BOOM ARM BRACKET TO SUIT CHS 26.9 - 42.4	4
5	BRPA-0026	BACKING BRACKET TO SUIT Ø48.3 CHS TO Ø60.3 CHS	4
6	CLPA-0072	THREADED ROD M10 - 250L	4
7		M10 - HDG - ROUND WASHER - LIGHT STAND-OFF MOUNT	16
8		M10 - HDG - SPRING WASHER	16
9		M10 - HDG - HEX NUT - LIGHT STAND-OFF MOUNT	16
10		M12 x 60L BOLT C/W NUT & WASHER 4.6 GRADE HDG	4
11		AVIATION LIGHT POWER ENCLOSURE	1



**A** DETAIL VIEW  
S-12 TYPICAL DETAIL  
SCALE 1:10

GL36 SECTION

GL55 SECTION



**1** MAST ELEVATION  
S-12 SCALE: 1:60

- NOTES
1. AVIATION LIGHT MODE OF OPERATION IS MEDIUM INTENSITY 24H FLASHING RED MAXIMUM INTENSITY: 2000 CD.
  2. SOLAR PANEL ANGLE SHALL BE SET FOR BEST AVERAGE PERFORMANCE THROUGHOUT THE YEAR. RECOMMENDED ANGLE IS 35°.
  3. MAST BASE CATTLE FENCING NOT SHOWN FOR CLARITY.
  4. USE SPRING WASHERS WHERE REQUIRED.
  5. CHECK ALL FASTENERS ARE PROPERLY TIGHTENED.
  6. CLEAN ALL SURFACES BEFORE APPLYING REFLECTORS.

REV	DESCRIPTION	DATE
01	REVISED LOCATION	09/03/26
00	ISSUED FOR CONSTRUCTION	3/02/26



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PROJECT  
GERALDTON, WA  
GERM02, 120M(NOM.) MET MAST  
GL55-36 GUYED LATTICE MAST  
TEMPORARY DEPLOYMENT

SHEET TITLE  
AVIATION LIGHT G.A.

STATUS **FOR CONSTRUCTION**

SCALE PLOTTED AT A3  
AS SHOWN



DRAWN CG	CHECKED DM	APPROVED HK	PROJ. MANAGER MJ
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DRAWING NUMBER ART-240175-SGA-001	SHEET 12/12	ISSUE 01
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