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Chippendale NSW
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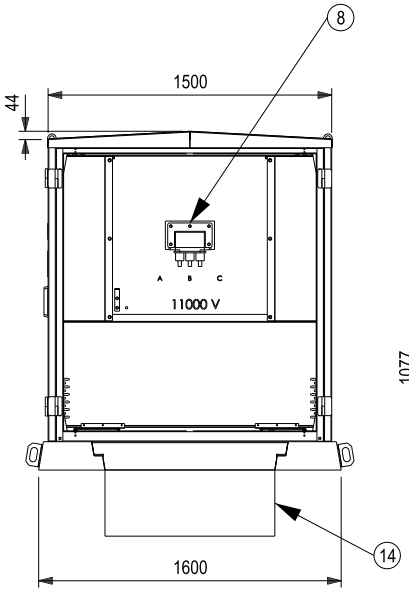
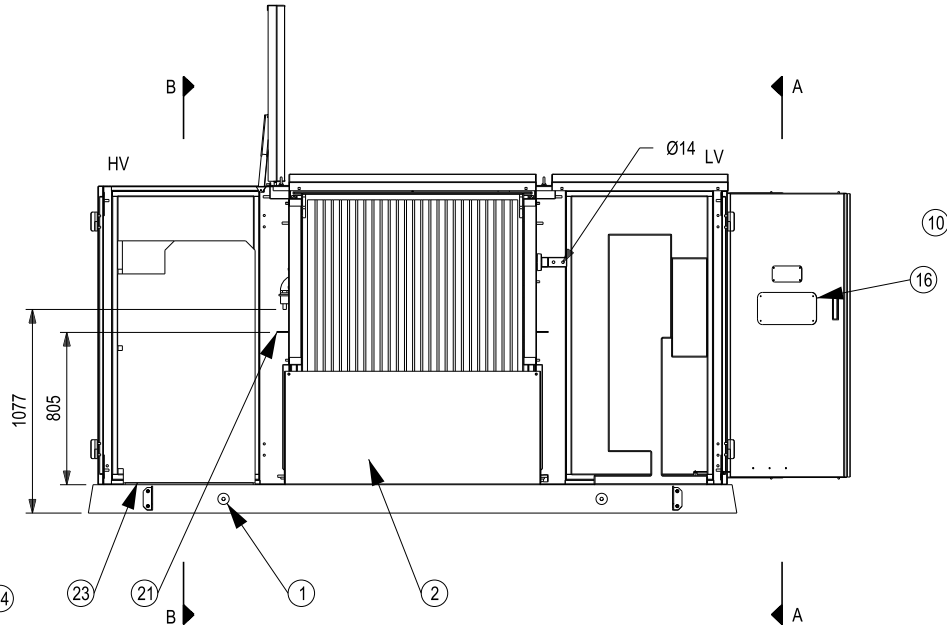
Project: Merritts Gondola, Thredbo NSW 2625
Client: Kosciuszko Thredbo Pty Ltd

N

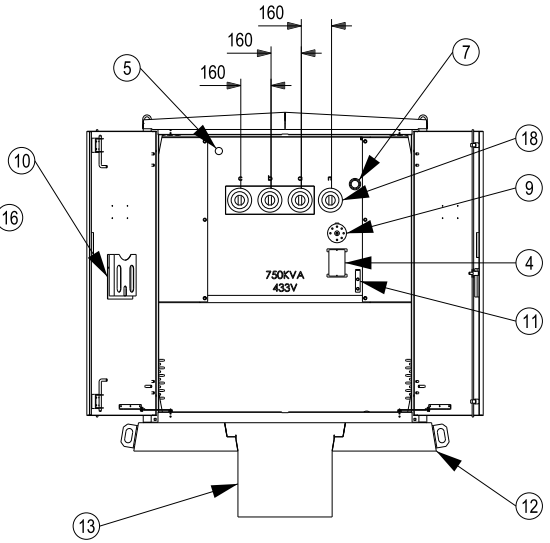
Drawing title:	TOP STATION SITE PLAN	Revision Date:	19/08/19
Project No.	18 407	Scale 1:400 @ A3	
Drawing No.	SK0.13	Revision:	G



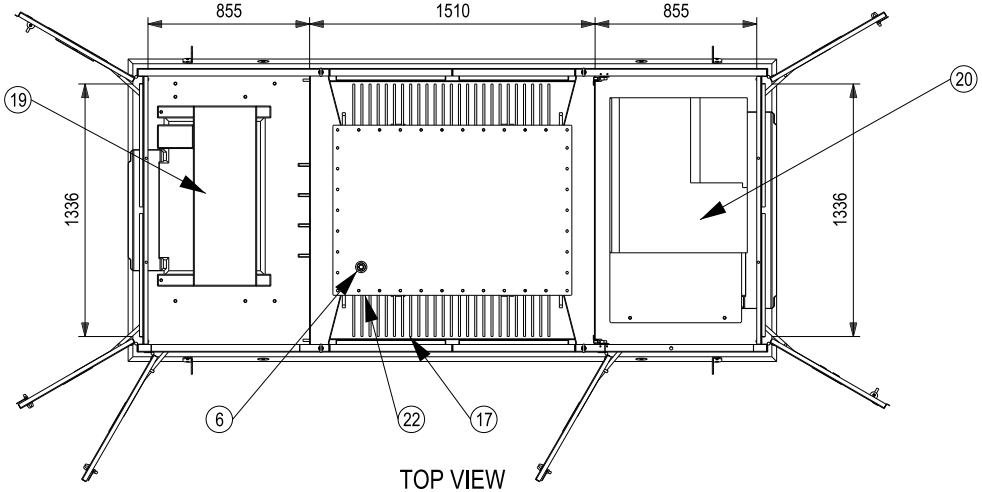
VIEW B-B
END VIEW HV
SWITCHGEAR REMOVED



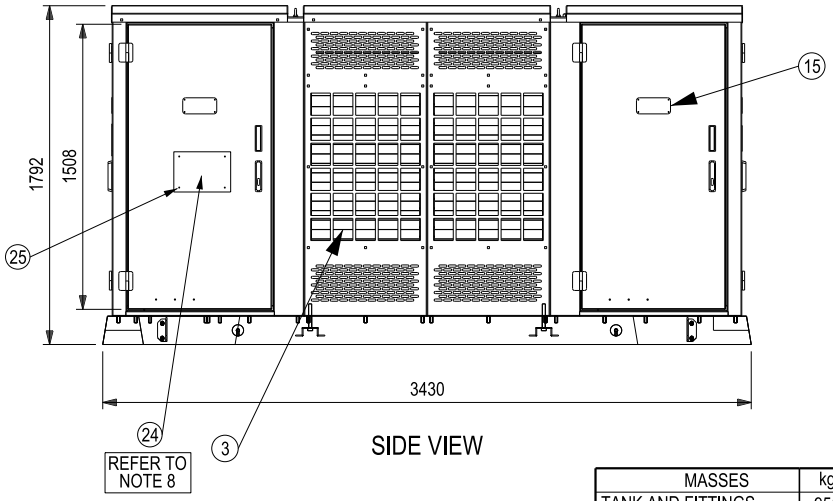
SIDE VIEW



VIEW A-A
END VIEW LV
SWITCHGEAR REMOVED



TOP VIEW



SIDE VIEW

ELECTRICAL CLEARANCES IN AIR (mm)		
	PHASE-PHASE	PHASE - EARTH
HV	INSULATED	INSULATED
LV	100	60

MASSES	kg
TANK AND FITTINGS	955
ENCLOSURE AND PLINTH	2350
OIL VOLUME (965 Litre)	840
CORE AND COIL	1365
SWITCHGEAR	600
TOTAL	6110

AMENDMENT DETAILS		
4	DRAWN	A.SHEPHERD
	CHCKD	D.KELLY
	DATE	21/05/2018
REFER TO SHEET 2.		
3	DRAWN	J.DOWLING
	CHCKD	D.KELLY
	DATE	07/05/2014
ITEMS 24 & 25 ADDED. REFER TO SHEET 2.		
2	DRWN	K.SMITH
	CHCKD	D.KELLY
	DATE	05/10/2012
REFER TO SHEET 2.		

SCALE	NTS
ISSUED	19/09/2012
DRAWN BY	SG / W.G
CHECKED BY	D.KELLY

AUTHORISED BY

Graeme Barnewall

PRINCIPAL ENGINEER UNDERGROUND CONSTRUCTION STANDARDS

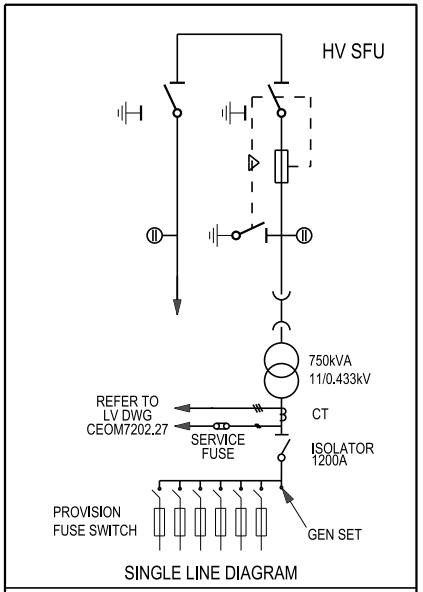
DATE 26/05/2018

CEOM7203.81

#	1 of 2	A4

PADMOUNT SUBSTATION 11kV, 750kVA GENERAL ARRANGEMENT (TYREE) ELONGATED

essential energy

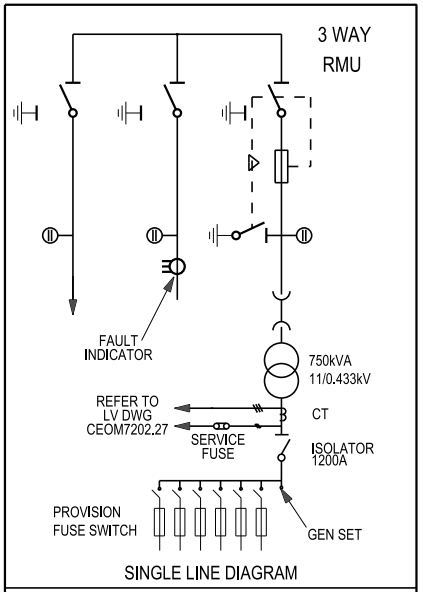


SINGLE LINE DIAGRAM

SUBPAD_11_750_EL_6_SFEF

CAT No 251700

TYREE REF DWG 0750-0307 & 0804-0054

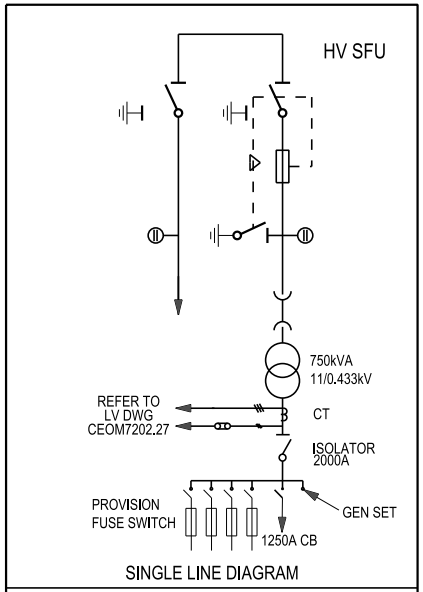


SINGLE LINE DIAGRAM

SUBPAD_11_750_EL_6_3WEF

CAT No 251710

TYREE REF DWG 0750-0308 & 0804-0054

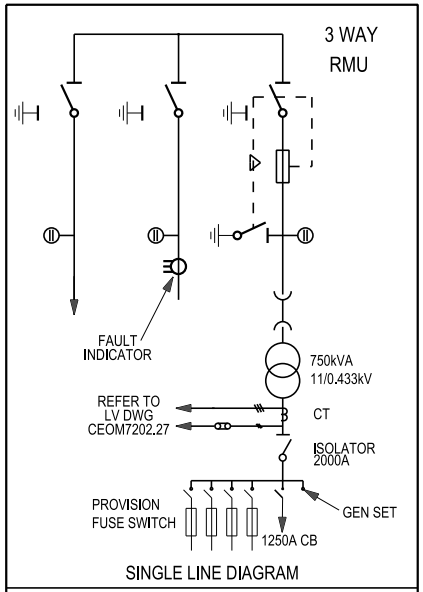


SINGLE LINE DIAGRAM

SUBPAD_11_750_EL_CB 4_SFEF

CAT No 251713

TYREE REF DWG 0750-0305 & 0804-0055



SINGLE LINE DIAGRAM

SUBPAD_11_750_EL_CB 4_3WEF

CAT No 251714

TYREE REF DWG 0750-0309 & 0804-0055

Item No.	Qty	Description	Cat. No.
25	4	RIVET POP S/S 4mm DIA 3.2 - 6.4 RANGE	101920
24	3	EMERGENCY CALL SIGN	851302
23		RMU - MOUNTING PLATE	AS PER SINGLE LINE DIAGRAM
22		COVER ASSEMBLY	
21		EARTH BAR	
20		HV SWITCHGEAR - EFACEC FLOUOFIX	
19		LV SWITCHBOARD - WEBER	
18		#73 BUSHING ASSEMBLY 3.3kV 1050A	
17		TANK ASSEMBLY	
16		PADMOUNT SUBSTATION LABEL	
15		DANGER LABEL	
14		HV END-FILL PANEL	
13		HV END-FILL PANEL	
12		PLINTH	
11		EARTH BAR	
10		DRAWING POCKET	
9		TAPSWITCH HANDLE 7 POSITION	
8		REROLLE BUSHING EMC TBRA12	
7		25NB BRASS OIL SIGHT	
6		PLUG 25NB FLANGED BRASS	
5		25NB FILLER CAP	
4		3 PHASE RATING PLATE	
3		LOUVRE ASSEMBLY	
2		BUND ASSEMBLY	
1		2.5t SWITFT-LIFT MAIN LIFTING EYES	

NOTES

1. The EFACEC switchgear for the 750kVA padmount will require three fuses (Cat No. 210016 - Fuse 12kV 80A Backup HRC).
2. The appropriate number of padlocks (Cat No. 112666) are required for the high voltage switchgear.
3. The appropriate number of padlocks (Cat No. 112666) are required for all doors.
4. This drawing to be read in conjunction with CEOM7203.48
5. All bolts, nuts and washers to be stainless steel.
6. Both transformer and plinth to be earthed back to main earth bar.
7. Danger and identification signs to be fitted to all doors and transformer access door.
8. Item 24 to be centrally located on the doors of the HV switchgear. Where there are two doors the label is to placed on the left hand door. Item to be fixed with item 25.
9. Low Voltage switch fuse modules and fuse cartridges/links will need to be ordered separately as per CEOM7202.12

AMENDMENT DETAILS		
4	DRAWN	A.SHEPHERD
	CHCKD	D.KELLY
	DATE	21/05/2018
ADDED NOTE 9.		
3	DRAWN	J.DOWLING
	CHCKD	D.KELLY
	DATE	07/05/2014
REFERENCE TO LV DRAWING WAS CORRECTED FROM CEOM7202.07. ITEMS 24 & 25 ADDED. NOTE 8 ADDED.		
2	DRWN	K.SMITH
	CHCKD	D.KELLY
	DATE	05/10/2012
ALL SINGLE LINE DIAGRAMS UPDATED.		

SCALE	NTS
ISSUED	19/09/2012
DRAWN BY	S.G / W.G
CHECKED BY	D.KELLY

AUTHORISED BY

Graeme Barnewall

PRINCIPAL ENGINEER UNDERGROUND CONSTRUCTION STANDARDS

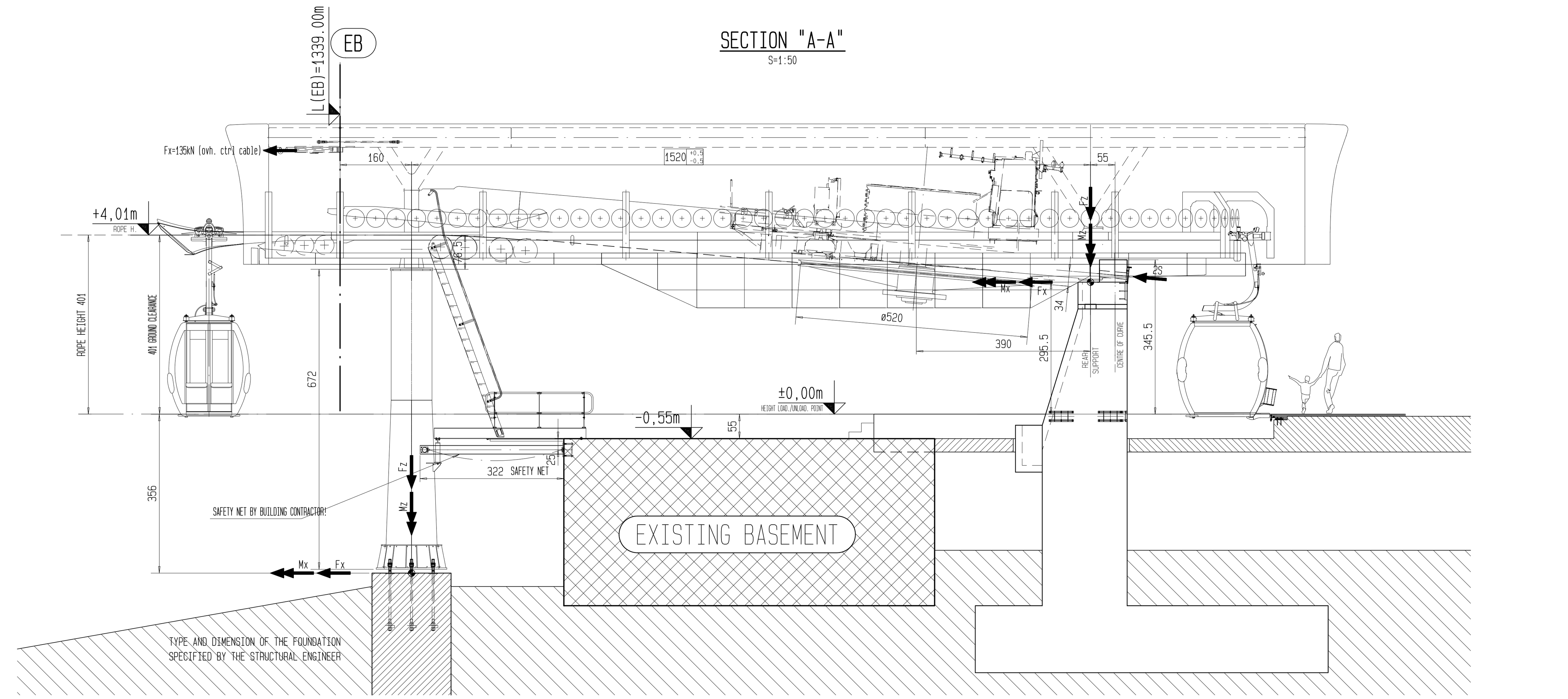
DATE 26/05/2018

CEOM7203.81

#	2 of 2	A4

PADMOUNT SUBSTATION 11kV, 750kVA GENERAL ARRANGEMENT (TYREE) ELONGATED

SECTION "A-A"
S=1:50



SECTION "B-B"
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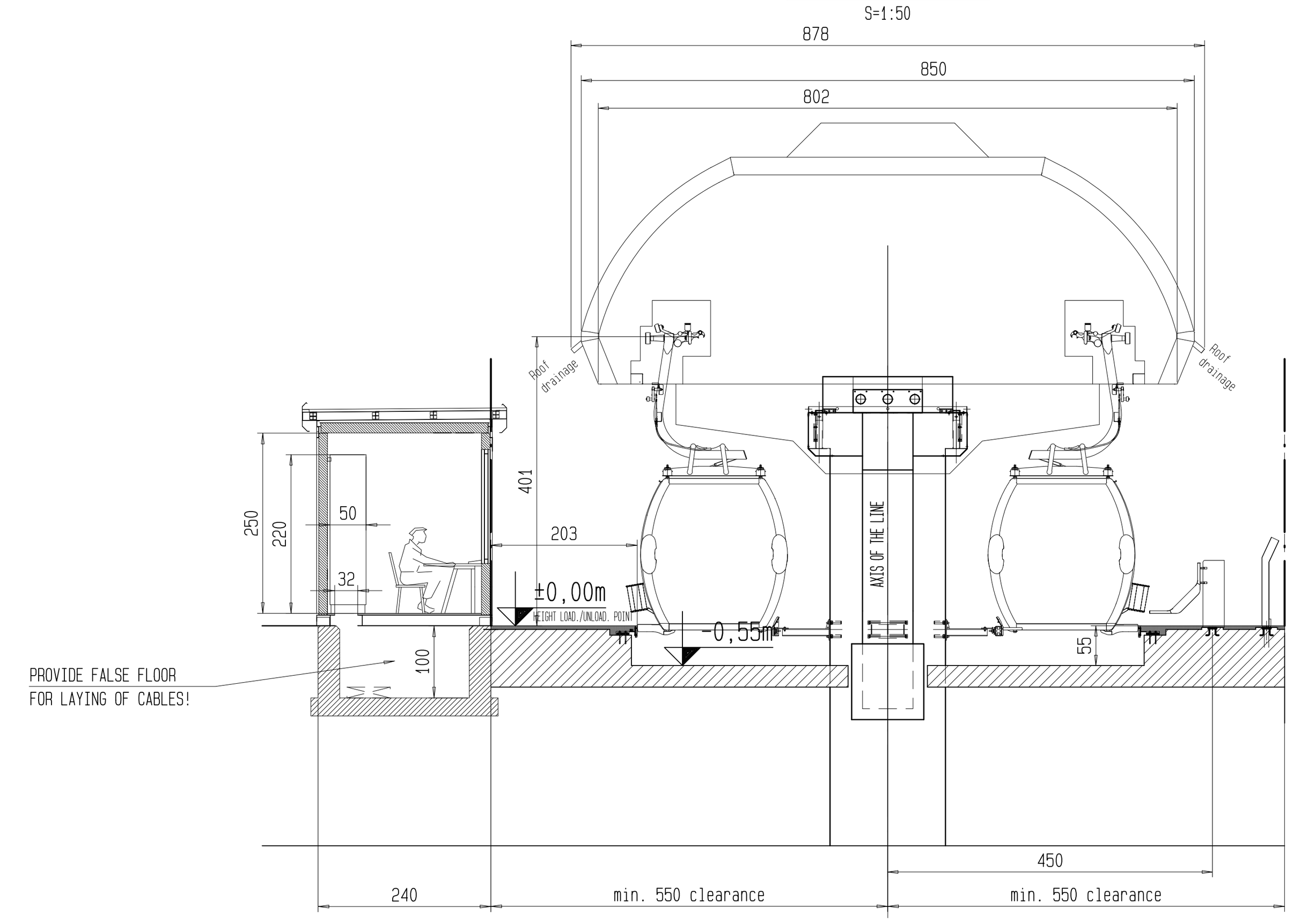
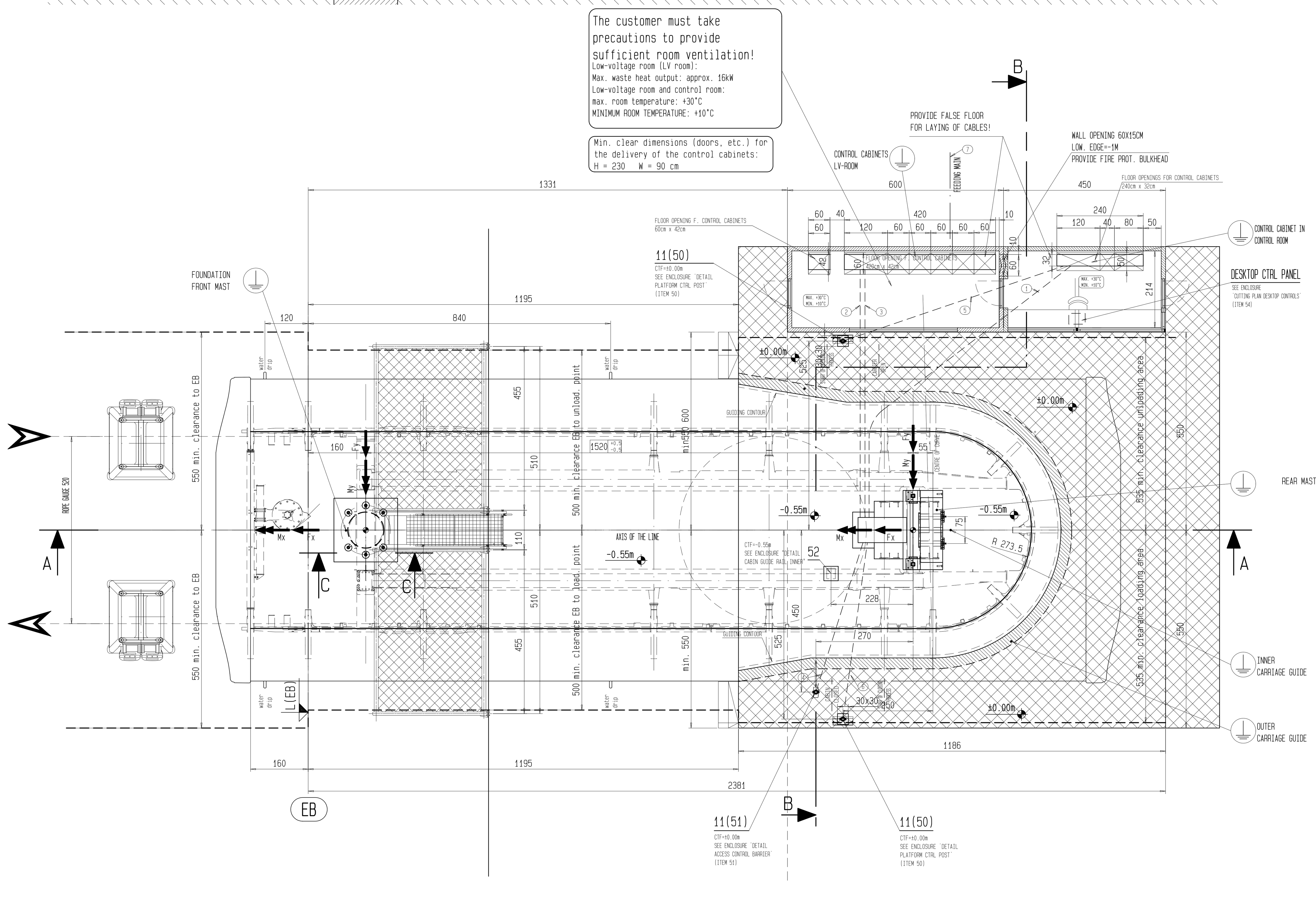
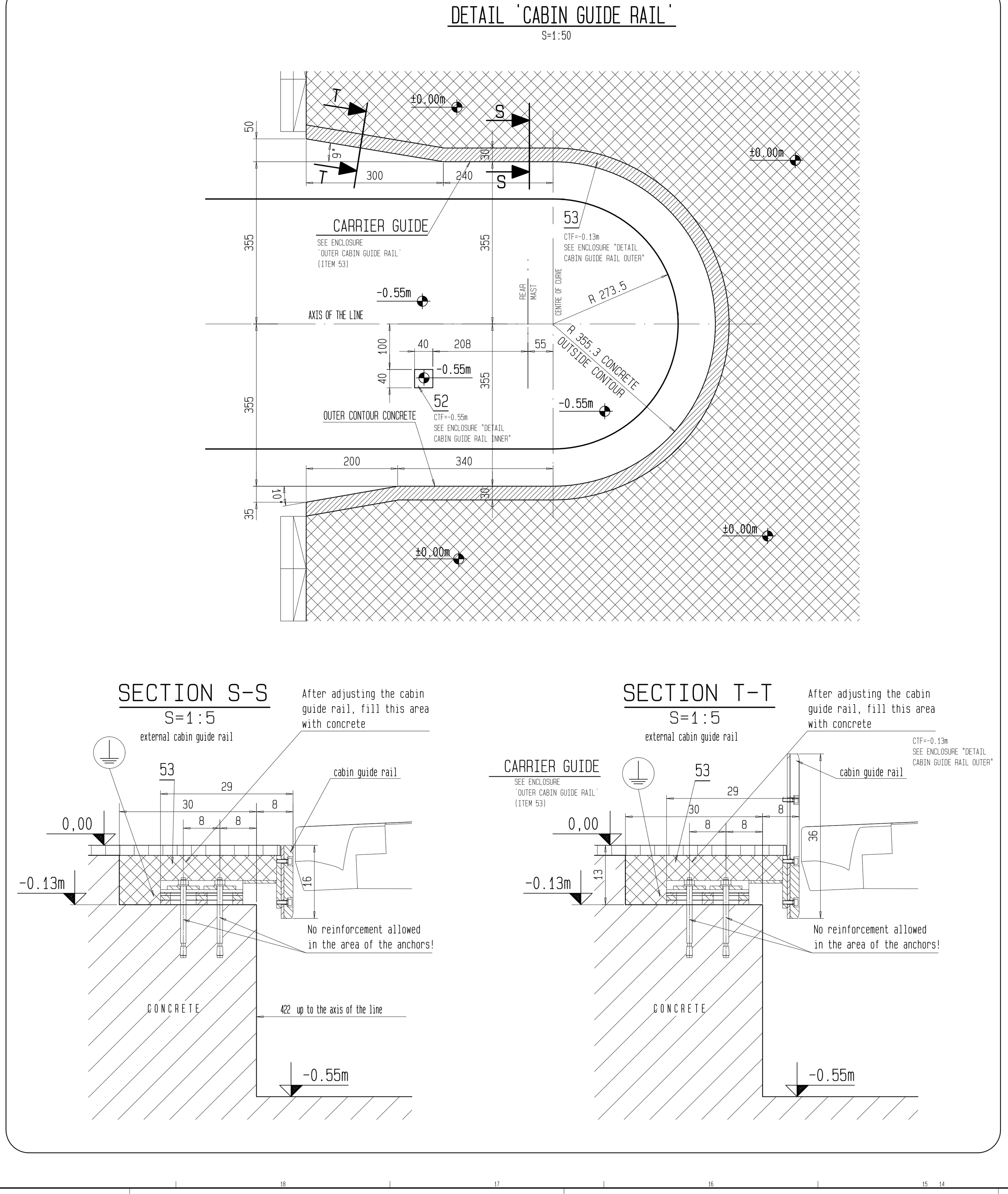


The customer must take precautions to provide sufficient room ventilation!

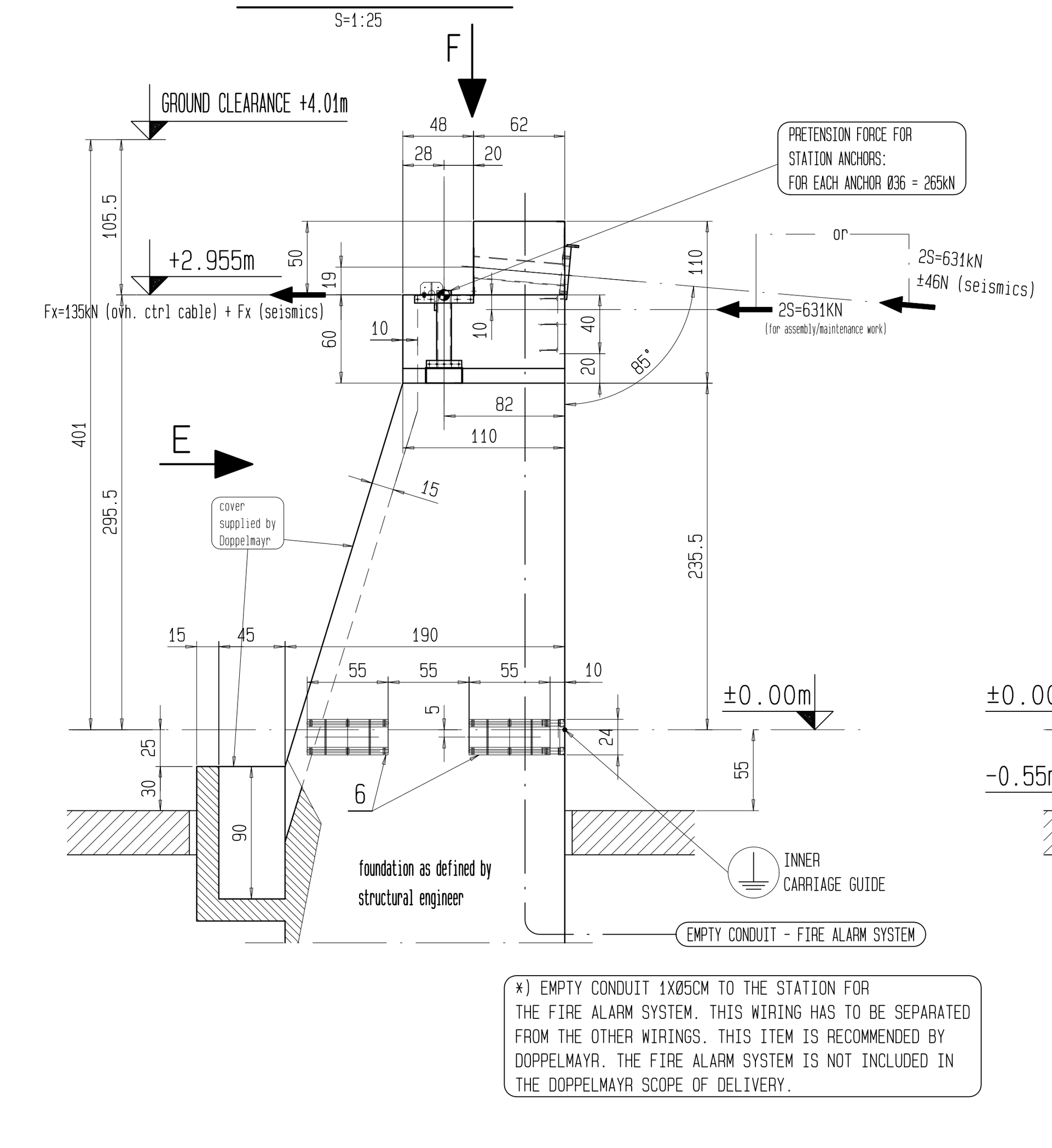
Min. clear dimensions (doors, etc.) for the delivery of the control cabinets: H = 230 , W = 90 cm



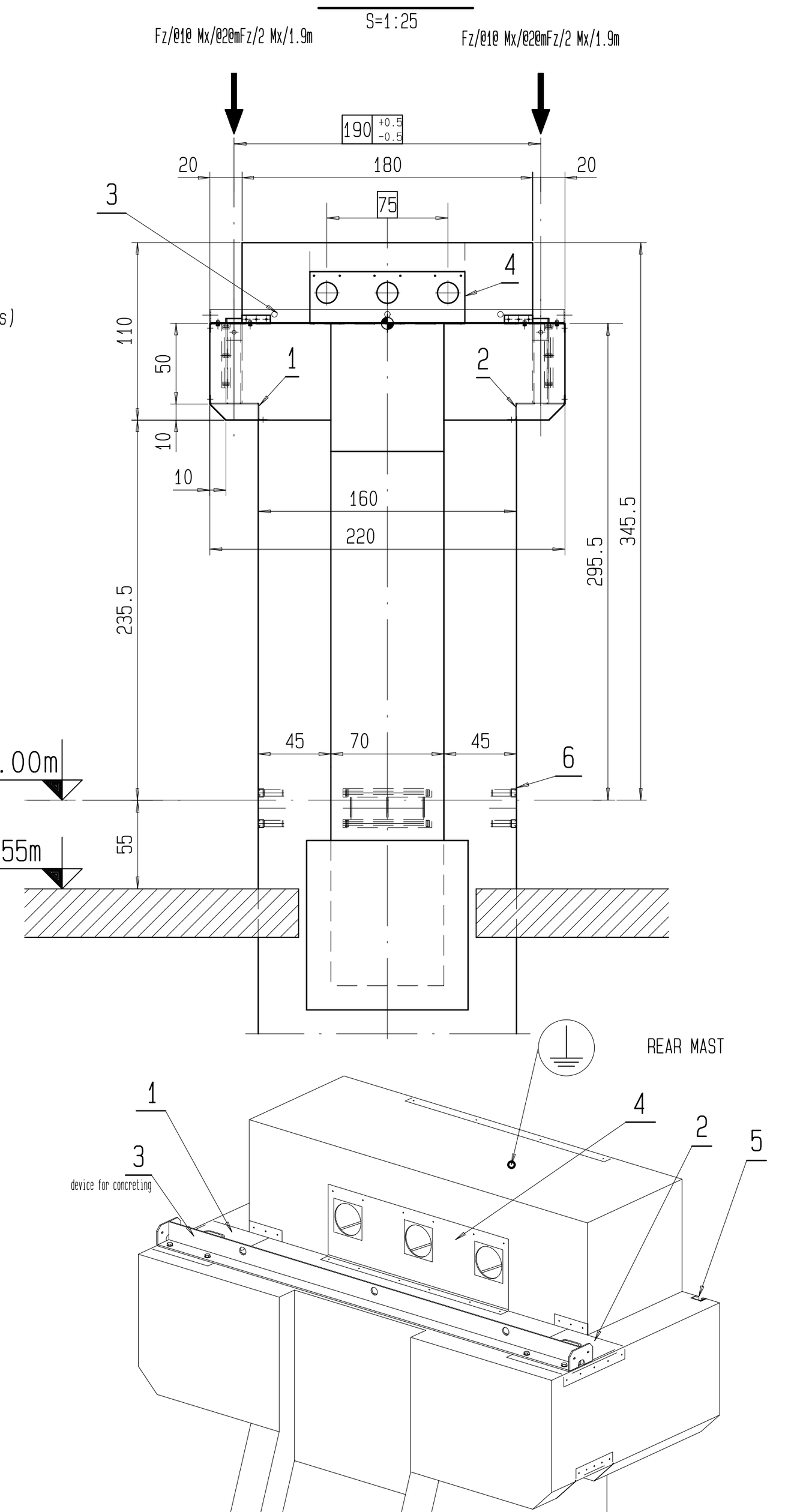
DETAIL 'CABIN GUIDE RAIL'
S=1:50



DETAIL: CONCRETE MAST
S=1:25



VIEW E
S=1:25



VIEW "F"
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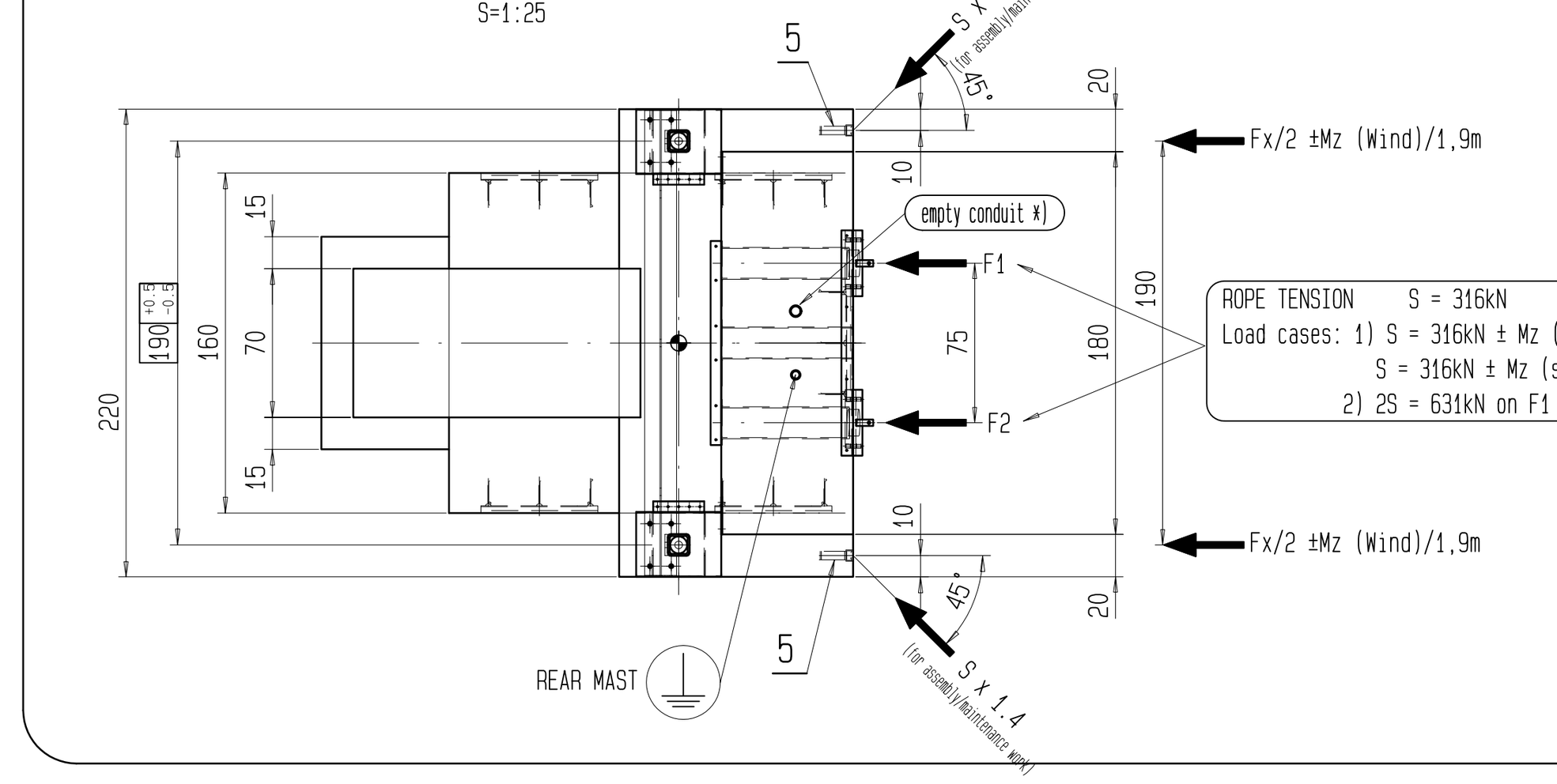
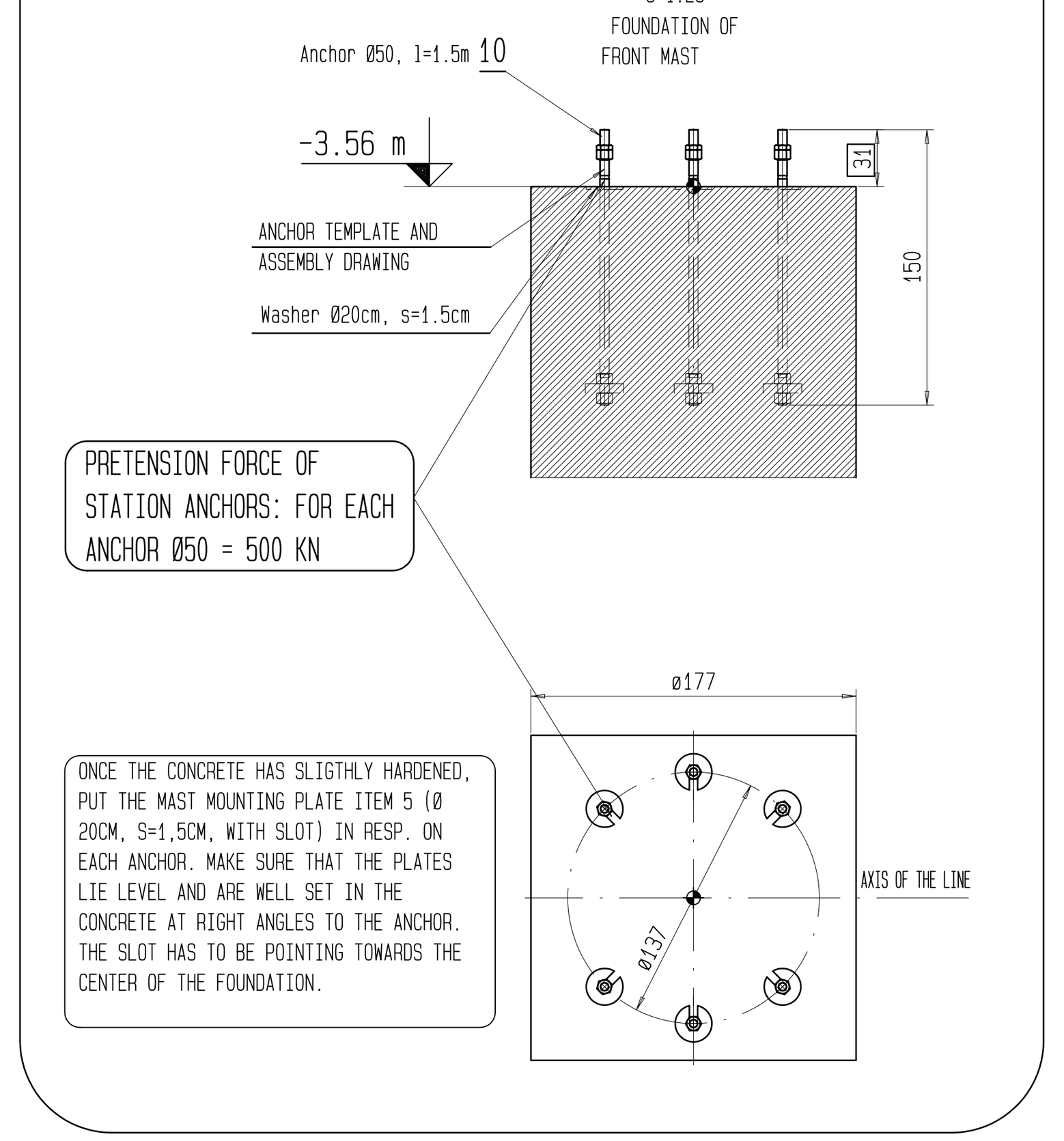


SECTION "C-C"
S=1:25



ONCE THE CONCRETE HAS SLIGHTLY HARDENED, PUT THE MAST MOUNTING PLATE ITEM 5 (Ø 20CM, S=1.5CM, WITH SLOT) IN RESP. ON EACH ANCHOR. MAKE SURE THAT THE PLATES LIE LEVEL AND ARE WELL SET IN THE CONCRETE AT RIGHT ANGLES TO THE ANCHOR. THE SLOT HAS TO BE POINTING TOWARDS THE CENTER OF THE FOUNDATION.

EMPTY CONDUITS - OPENINGS

- for Doppelmayr installations
- empty conduits supplied and mounted by customer
- In open cable-pull areas (e.g. false floors, steel substructures) no empty conduits must be laid.

1 ... 4 x Ø 10.0 cm rear mast => control room
2 ... 4x Ø 10.0 cm rear mast => LV room
3 ... 3x Ø 12.5 cm rear mast => LV room
4 ... 1 x Ø 5.0 cm access control barrier => control room
5 ... 1 x Ø 6.3 cm platform control post 1 => control room
6 ... 1 x Ø 6.3 cm platform control post 2 => rear mast
7 ... 3x Ø 12.5 cm LV room => supply from transformer

THE LAYING OF THE EMPTY CONDUITS MUST BE EXECUTED IN SUCH WAY THAT INSIDE THE TUBES NO water can accumulate - min. bending radius = 10 * Ø of empty tube!

The remaining empty tubing in accordance with the specifications of the executing electric company (building electricians, etc.) must be carried out!

EMPTY TUBES + OPENINGS

- SUPPLY AND INSTALLATION OF TUBES BY BUILDING CONTRACTOR. NOT IN SCOPE OF SUPPLY OF DOPPELMAYR.
- IF EMPTY TUBES ARE REPLACED WITH CABLE TRAYS, THOSE ARE NOT IN THE SCOPE OF DELIVERY OF DOPPELMAYR EITHER.
- CROSS SECTIONS REFER TO THE INNER DIAMETER.
- ELECTR. AND HYDR. LINES ARE LAID SEPARATELY.
- EXECUTE THE EMPTY TUBES IN SUCH WAY THAT WATER PENETRATION DURING THE CONSTRUCTION PHASE IS PREVENTED.
- THE ENDS OF THE EMPTY TUBES MUST BE SEALED TO PREVENT WATER PENETRATION DURING THE CONSTRUCTION PHASE.
- THE EXECUTION OF THE EMPTY TUBES MUST BE WATER-TIGHT.
- MAX. LENGTH 20M.OTHERWISE, AND INTERMEDIATE DUCT IS NECESSARY. THE DIAMETER MUST CORRESPOND WITH THE MIN. BENDING RADIUS OR LARGER.
- INSTALLATION + LAYING AS STRAIGHT AS POSSIBLE. USE NO 90° BENDS.
- MIN. BENDING RADIUS IS 10Y DIAMETER OF EMPTY TUBE.
- MIN. PROJECTING LENGTH OF EMPTY TUBES 1000MM.
- IN OPEN CABLE-PULLING AREAS (FALSE FLOOR, STEEL BASE CONSTRUCTION) NO EMPTY TUBES MUST BE LAID.
- ADDITIONAL EMPTY TUBES (E.G. INTERNAL SYSTEM, FIRE ALARM SYSTEMS) MUST BE EXECUTED ACC. TO SPECIFICATIONS OF THE COMPANIES EXECUTING THE WORKS.
- REQUIRED FIRE PROT. BULKHEADS (E.G. FOR WALL OR CEILING OPENINGS) MUST BE DELIVERED AND INSTALLED BY THE BUILDING CONTRACTOR.
- FOR THE TRANSPORT OF THE CONTROL CABINETS, MIN. DIMENSIONS (DOORS, ETC.) MUST BE OBSERVED.
  CONTROL + OPERATOR ROOM: HEIGHT 2300MM, WIDTH 800MM
  LV-ROOM: HEIGHT 2300MM, WIDTH 900MM
- BASE FOR CONTROL CABINETS- SUPPLY BY BUILDING CONTRACTOR.

ALL OTHER EMPTY TUBES ACC. TO SPECIFICATIONS OF OTHER ELECTR. COMPANIES EXECUTING THE WORKS.

GROUNDINGS:

FOR DOPPELMAYR INSTALLATIONS.

THE ROUND GROUNDING RODS MUST BE CONNECTED WITH THE GROUNDING OF THE BUILDINGS AND THE LINE (EQUIPOTENTIAL BONDING)!

ROUND GROUNDING RODS Ø 1 CM - 1 M PROJECTION

VIBRATIONS: -------------------- THE ROPEWAY EQUIPMENT GENERATES VIBRATIONS THAT MAY BE TRANSMITTED ONTO PARTS OF THE BUILDINGS. THIS MUST BE CONSIDERED IN THE CONSTRUCTIONAL DESIGN (FOUNDATION, BUILDING INTERFACES, ETC.).

± 0.00 = 1665.05m
(LOADING/UNLOAD.LEVEL)

BUILDING CONSTRUCTION SEE BUILD. CONSTR. DRAWINGS

±0.00m TOP FINISHED FLOOR — rubber mats — grating — BASE STRUCTURE; STEEL STRUCTURE

FRONT MAST

WAA0004672 UPHILL 03/05/2019
Connection forces on the connection point (acc.to drwg.) 8-MGD MERRITTS

	Fx	Fy	Fz	Mx	My	Mz
1 Constant loads						
1.1 Dead weight of ropeway equipment	± 10		205	± 70	± 50	
1.2 Dead weight of roof or compact enclosure			110			
1.3 DEAD WEIGHT - FIXED DRIVE / FIXED RETURN ST.			70		± 50	
2 Variable loads						
2.1						
2.1.1						
2.1.2						
2.2 Ropes						
2.2.1 Rope deflection and rope tension			60	± 20		
2.2.2 Signal/communication cable			30			
2.3 Snow (qs = 6.10 kN/m²)						
2.3.1 Both sides 100% snow			425		± 40	
2.3.2 One side 50% snow			110	± 180	± 10	
2.3.3 One side 100% snow and one side 50% snow			320	± 180	± 30	
2.3.4						
2.4 Wind (qa = 1.20 kN/m²; qi = 0.25 kN/m²)						
2.4.1 Wind at right angles to axis of lift in operation		± 15		± 90		
2.4.2 Wind at right angles to axis of lift out of operation		± 55		± 425		
2.5 Wind on 100 % snow						
2.5.1 Wind on 100 % snow at right angles to axis of lift in operation		± 10		± 55		
2.5.2 Wind on 100 % snow at right angles to axis of lift out of operation		± 25		± 265		
2.6 Forces and torques from drive or return machinery						
2.6.1 Starting or brake torque or 2.6.2		± 15		± 115		
2.6.2 Unequal tie rod load		± 20		± 125		
2.7						
2.7.1						
2.7.2						
2.7.3						
3 Exceptional loads						
3.1 Seismic influences (earthquake a_xy = 1.37 m/s²)						
3.1.1 Seismic loads in x-direction			± 10			
3.1.2 Seismic loads in y-direction		± 55		± 410		
3.1.3 Seismic loads in z-direction			± 35			
3.2						
3.3						

Forces and moments apply to final capacity design
Forces in [kN] and moments in [kNm].
Specification of forces and moments without partial safety coefficients.

x ... axis of the line
y ... horizontal axis
z ... vertical axis

REAR MAST

WAA0004672 UPHILL 03/05/2019
Connection forces on the connection point (acc.to drwg.) 8-MGD MERRITTS

	Fx	Fy	Fz	Mx	My	Mz
1 Constant loads						
1.1 Dead weight of ropeway equipment			230	± 110		
1.2 Dead weight of roof or compact enclosure			135			
1.3 DEAD WEIGHT - FIXED DRIVE / FIXED RETURN ST.			265			
2 Variable loads						
2.1						
2.1.1						
2.1.2						
2.2 Ropes						
2.2.1 Rope deflection and rope tension (2 s = 631 kN)	see detail drawing concrete mast					
2.2.2 Signal/communication cable	135		-30			
2.3 Snow (qs = 6.10 kN/m²)						
2.3.1 Both sides 100% snow			530			
2.3.2 One side 50% snow			135	± 220		
2.3.3 One side 100% snow and one side 50% snow			400	± 220		
2.3.4						
2.4 Wind (qa = 1.20 kN/m²; qi = 0.25 kN/m²)						
2.4.1 Wind at right angles to axis of lift in operation		± 15		± 30		± 30
2.4.2 Wind at right angles to axis of lift out of operation		± 65		± 125		± 80
2.4.3 Wind in longitudinal axis in operation	± 10					
2.4.4 Wind in longitudinal axis out of operation	± 30					
2.5 Wind on 100 % snow						
2.5.1 Wind on 100 % snow at right angles to axis of lift in operation		± 10		± 30		± 20
2.5.2 Wind on 100 % snow at right angles to axis of lift out of operation		± 35		± 135		± 40
2.5.3 Wind on 100 % snow in axis of lift in operation	± 5					
2.5.4 Wind on 100 % snow in long. axis out of op.	± 10					
2.6 Forces and torques from drive or return machinery						
2.6.1 Starting or brake torque or 2.6.2		± 15		± 0		± 215
2.6.2 Unequal tie rod load		± 20		± 0		± 240
2.7						
2.7.1						
2.7.2						
2.7.3						
2.7.4						
3 Exceptional loads						
3.1 Seismic influences (earthquake a_xy = 1.37 m/s²)						
3.1.1 Seismic loads in x-direction	± 100		± 10			
3.1.2 Seismic loads in y-direction		± 90		± 90		
3.1.3 Seismic loads in z-direction			± 60			
3.2						
3.3 Overload hydraulic tensioning (increase of rope tension) (2 s = 719 kN)	see detail drawing concrete mast					

Forces and moments apply to final capacity design
Forces in [kN] and moments in [kNm].
Specification of forces and moments without partial safety coefficients. Rev. 19 (V 2.1)

GENERAL:

* THE FORCES APPLY FOR THE INITIAL AND FINAL DESIGN
* IN CASE OF LOCAL FORCE APPLICATION, CORRESPONDING RESTRAINING REINFORCEMENTS AND PROTECTION AGAINST TENSILE SPLITTING MUST BE CONSIDERED
* WIND AND SNOW LOADS MUST BE OBSERVED.
* TO THE STATION SUPPORTS, CONTROL CABINETS, CABIN GUIDE RAILS, LIFTING PLATFORMS, GRID SURFACES AND RETAINING UNITS GROUNDING STRAPS MUST BE LAID ACCORDING TO THE REGULATIONS (MIN. PROJECTING LENGTH 1M)!
* DO NOT WELD OR TACK ON ANCHOR BOLTS (risk of fracture)!
* HYDRAULIC AND ELECTRICAL LINES ARE LAID SEPARATELY.
* DIMENSIONS IN CM
* CLEAR DIMENSIONS (DOORS, ETC.) FOR DELIVERY OF THE CONTROL CABINETS: H=230 CM, W=90 CM
* ADDITIONAL EMPTY CONDUITS MUST BE PROVIDED FOR INTERNAL ELECTRIC SYSTEM!
* EXECUTION OF BUILDING AND STEEL CONSTRUCTION IN ACCORDANCE WITH DRAWINGS FOR BUIDLING/STEEL CONSTRUCTIONS!

POINTS OF APPLICATION OF FORCES ACC. TO TABLE

APPLICABLE DOCUMENTS

POSITION	Designation	ID number	DRAWING NUMBER
50	DETAIL PLATFORM CONTROL PANEL	11459201	20168158E301101.f
51	DETAIL ACCESS CONTROL BARRIER	11481084	20174630E301101.b
52	DETAIL CABIN GUIDE RAIL INSIDE	11375685	20156453E301101.c
53	detail cabin guide rail outside	11497101	20179529E301101.b
54	CUTTING PLAN DESKTOP CONTROLS	11476032	20173305E003000.a
-	structural clearance	11643904	20181480E001100.a

Dimensional tolerances as per ÖNORM B 1100 / tolerance class 16 / DIN 18202 page 4 (dimensions in cm).

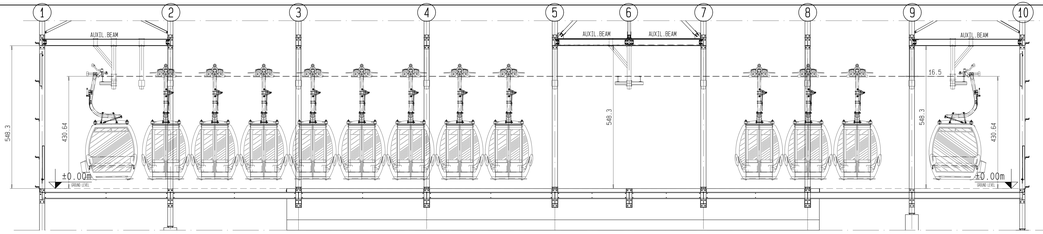
Index	Revision	Date	Name
A	Position of LV room changed.	2019-05-14	Meissner Armin

ID NO. 11853786

Doppelmayr — Innova Patent GmbH, Rickenbacherstr. 8-10, A-6960 WOLFURT/AUSTRIA
Q-Class: 0
Scale 1/50, Factor: 2.5
DRAWN 2019-04-29 Meissner Arm
SAVED 2019-05-16/08:14:50 Meissner Armin
Installation 8-MGD MERRITTS
Order WAA0004672 Piece X
gross weight kg
Plot remark 2019-05-28
DMAU plotted: sht Id: 11853786

TOP STATION LAYOUT
FIXED DRIVE
8-MGD UNIG-L 5.2m v=5m/s

Original drawing no. 20217987E001101.a
DRAWING NO. 20219466E001101 Index A



SECTION "A-A"
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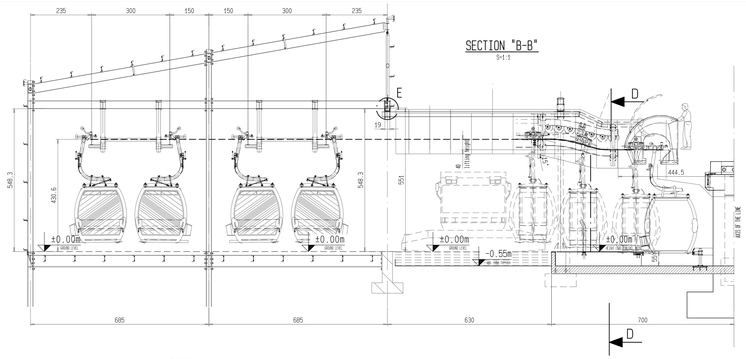

SECTION "B-B"
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SECTION "E-E"
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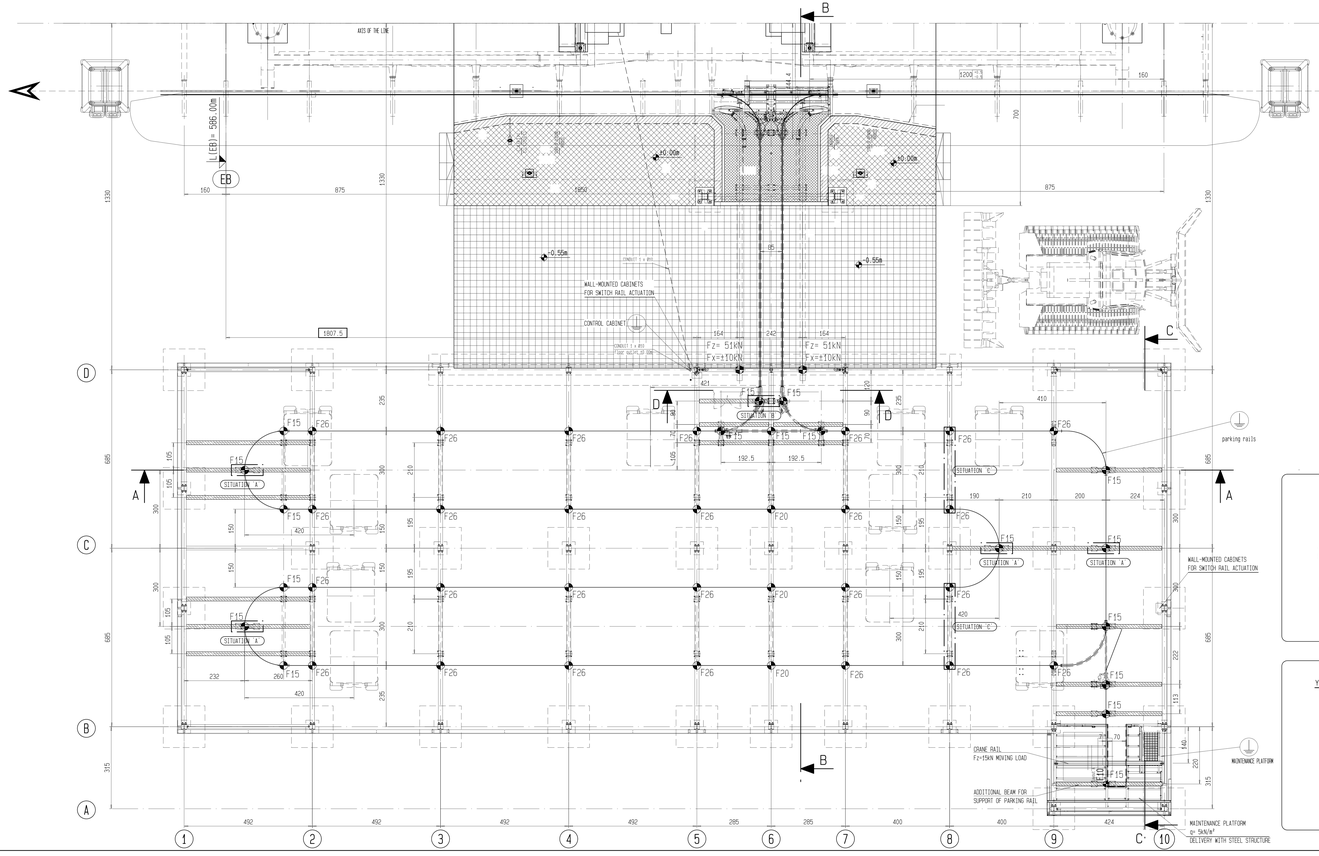

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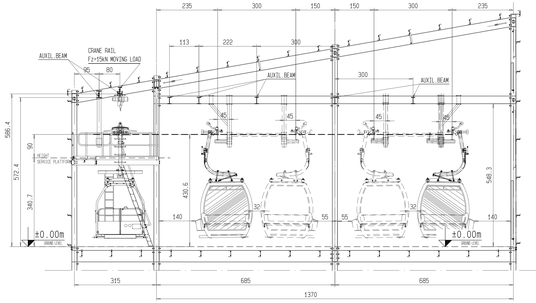
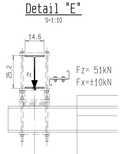


Detail "E"
S=1:10



LOADS Fz

CAUSED BY PARKING EQUIPMENT, WORKING PLATFORM FOR GRIP INSPECTION, AND PARKED CARRIERS.

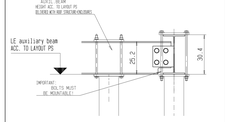
- F10 Fz=10kN
- F15 Fz=15kN
- F20 Fz=20kN
- F26 Fz=26kN
- F51 Fz=51kN

Fz: FORCE THAT CAN MAX. ACT ON THIS POINT.
MOMENTS ACTING ON THE SUSPENSION POINTS MUST BE DETERMINED FROM THE SUSPENSION DISTANCES FOR THE STATICS.

DETAIL "suspension"

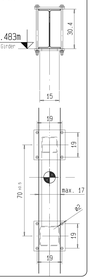
SCREWED ONTO GIRDER

S= 1:10



DETAIL SUSPENSIONS ON GIRDER

S=1:1



GROUNDINGS

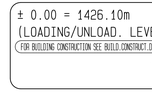
- for Doppelmayr installations

The round grounding rods have to be connected with both structure and line grounding (equipotential bonding)!

Round grounding rod Ø 1 cm - project.length ! m

± 0.00 = 1426.10m (LOADING/UNLOAD. LEVEL

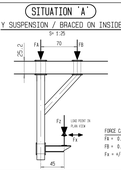
FOR BUILDING CONSTRUCTION SEE BUILD CONSTRUCT. DWGS.



SITUATION "A"

Y-SUSPENSION / BRACED ON INSIDE

S= 1:25

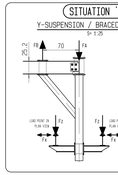


FORCE CALCULATION
Fz = 0.36 x Fz
Fx = 0.64 x Fz
Fx = +/-0.1 x Fz

SITUATION "B"

Y-SUSPENSION / BRACED ON OUTSIDE

S= 1:25

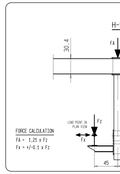


FORCE CALCULATION
Fz = 0.43 x Fz
Fx = -0.43 x Fz
Fx = +/-0.1 x Fz

SITUATION "C"

H-SUSPENSION / BRACED ON OUTSIDE

S= 1:25



FORCE CALCULATION
Fz = 0.25 x Fz
Fx = +/-0.1 x Fz

FORCE CALCULATION
Fx = 1.25 x Fz
Fx = +/-0.1 x Fz

ADDITIONAL BEAM:

19 pcs. aux. beam I 25x15cm (250.83t)

Mounting horizontal, torsionally rigid;
Positions and length as per plan view;
Position tolerance ↑. aux. beam ±1.5cm!
All aux. beams in scope of delivery with steel structure!

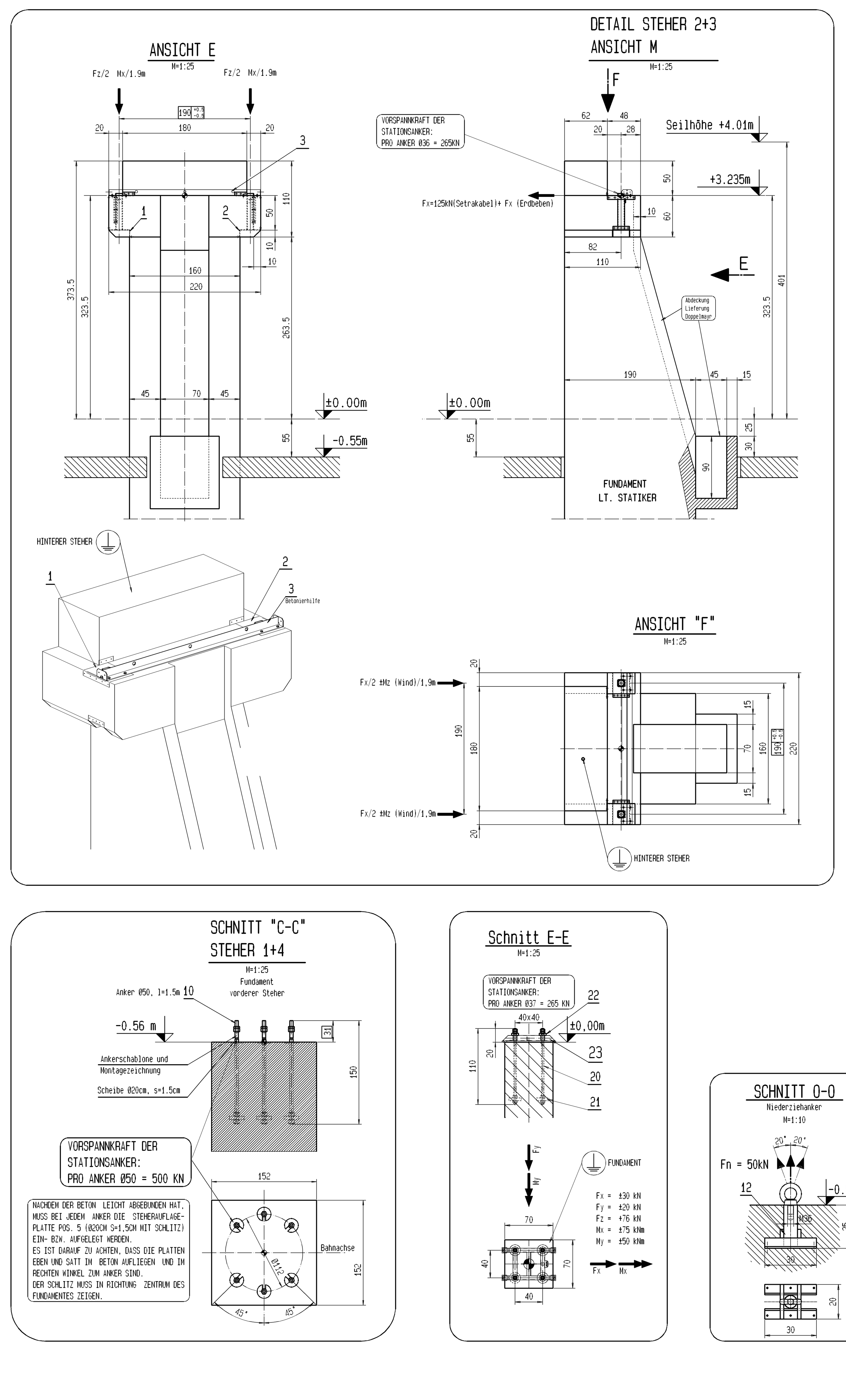
max. permissible deflexion as per separate DO suppl. sheet 'Requirements statics'!

APPLICABLE DOCUMENTS

1	0	STATIC REQUIREMENTS F. PARK. SYSTEM MAX. DEFLEXION
30		REQUIREMENTS MAINT. PLATF. STEEL STRUCT.

11853774						
Doppelmayr	Seilbahntechnik GmbH, Concept Planner DMP, Hans-Kissling-Straße 1, A-6922 WOLFURT		0		1/50	
Developer	H-HUB MERATITIS					
Order	MA00046572	Plant		X	kg	2019-06-27
PARKING SYSTEM LAYOUT W/ COMB. FORCES MID STATION						
						20219866E001101

Dimensions/tolerances as per ÖNORM B 2202 / tolerance class IT 7 DIN 16901 page 1 (dimensions in mm)



LEERVERROHRUNG - DURCHBRUECHE

- fuer Installationen der Fa. Doppelmayr
- Leerrohre Lieferung und Einbau bauseits
- in offenen Kabelziehbereichen (z. B. Doppelboeden, Stahlunter= konstruktionen) muessen keine Leerrohre verlegt werden

1 ... 4 x Ø 10.0 cm	Kabelschacht Steher 2	=>	Kommandoraum
2 ... 4 x Ø 10.0 cm	Kabelschacht Steher 3	=>	Kommandoraum
3 ... 1 x Ø 5.0 cm	Einstiegsbegrenzung	=>	Kommandoraum
4 ... 1 x Ø 5.0 cm	Einstiegsbegrenzung	=>	Kabelschacht Steher 2
5 ... 1 x Ø 6.3 cm	Bahnsteigsaeule 1	=>	Kommandoraum
6 ... 1 x Ø 6.3 cm	Bahnsteigsaeule 2	=>	Kommandoraum
7 ... 1 x Ø 6.3 cm	Bahnsteigsaeule 3	=>	Kabelschacht Steher 2
8 ... 1 x Ø 6.3 cm	Bahnsteigsaeule 4	=>	Kabelschacht Steher 3
9 ... 1 x Ø 6.3 cm	Hubpodest	=>	Kabelschacht Steher 3
10 ... 1 x Ø 10.0 cm	Bahnhofsteuerschrank	=>	Kabelschrank Steher 2
11 ... 1 x Ø 10.0 cm	Steher 1	=>	Kommandoraum
12 ... 1 x Ø 10.0 cm	Steher 4	=>	Kommandoraum

DIE LEERVERROHRUNG IST SO AUSZUFUEHREN, DASS SICH IN DEN ROHREN KEINE WASSERANSAMMLUNG BILDEN KANN - MINDESTBOGENRADIUS =10 * Ø LEERROHR !

DIE RESTLICHE LEERVERROHRUNG IST LAUT ANGABEN DER AUSFUEHRENDEN ELEKTRO-FIRMEN (HAUSELEKTRIKER, USW.) AUSZUFUEHREN !

L E E R V E R R O H R U N G + D U R C H B R Ü C H E

- LIEFERUNG UND EINBAU DER LEERVERROHRUNG BAUSEITS. NICHT IM LIEFERUMFANG FA.DOPPELMAYR.
- FALLS LEERROHRE DURCH KABELTASSEN ERSETZT WERDEN, SIND DIESE EBENFALLS NICHT IM LIEFERUMFANG DER FA. DOPPELMAYR ENTHALTEN.
- QUERSCHNITTSANGABEN BEZIEHEN SICH AUF DEN INNENDURCHMESSER.
- ELEKTRO- UND HYDRAULIKLEITUNGEN WERDEN GETRENNT VERLEGT.
- DIE LEERVERROHRUNG IST SO AUSZUFÜHREN, DAS SICH IN DEN ROHREN KEINE WASSERANSAMMLUNG BILDEN KANN.
- DIE ENDEN DER LEERROHRE SIND SO ZU VERSCHLIESSEN, DAMIT EIN WASSEREINTRITT WÄHREND DER BAUPHASE VERHINDET WIRD.
- DIE LEERVERROHRUNG IST WASSERDICHT AUSZUFÜHREN.
- MAXIMALE LÄNGE 20M. ANSONSTEN IST EIN ZWISCHENSCHACHT ERFORDERLICH. DER DURCHMESSER MUSS DEM MINDESTBIEGERADIUS ODER GRÖSSER ENTSPRECHEN.
- EINBAU BZW. VERLEGUNG SO GERADE WIE MÖGLICH. KEINE 90° BbÖGEN VERWENDEN.
- MINDESTBIEGERADIUS BETRÄGT 10X LEERROHRDURCHMESSER-
- MINDESTÜBERSTAND DER LEERROHRE 1000MM.
- IN OFFENEN KABELZIEHBEREICHEN (DOPPELBODEN, STAHLUNTERKONSTRUKTION) MÜSSEN KEINE LEERROHRE VERLEGT WERDEN.
- ZUSÄTZLICHE LEERVERROHRUNG (Z.B. HAUSTECHNIK, BRANDMELDEANLAGEN) IST NACH ANGABEN DER AUSZUFÜHRENDEN FIRMEN ZU VERLEGEN.
- ERFORDERLICHE BRANDABSCHOTTUNGEN (Z.B. BEI WAND- ODER DECKENDURCHFÜHRUNG) SIND BAUSEITS ZU LIEFERN UND EINZUBAUEN.
- FÜR DEN TRANSPORT DER SCHALTSCHRÄNKE SIND MINDESTMASSE (TÜREN,...) ZU BERÜCKSICHTIGEN:
  KOMANDO- U. DIENSTRAUM HÖHE 2300MM, BREITE 800MM
  NIEDERSPANNUNGSRAUM: HÖHE 2300MM, BREITE 900MM
- UNTERBAU FÜR DIE SCHALTSCHRÄNKE: LIEFERUNG BAUSEITS.

RESTLICHE LEERVERROHRUNG LAUT ANGABE DER ANDEREN AUSFÜHRENDEN E-FIRMEN.

E R D U N G E N :

FÜR INSTALLATIONEN DER FA. DOPPELMAYR

DIE RUNDERDER MÜSSEN MIT DER GEBÄUDE-UND STRECKENERDUNG (POTENTIALAUSGLEICH) VERBUNDEN SEIN!

RUNDERDER Ø 1 CM - 1 METER ÜBERSTAND

S C H W I N G U N G E N :

AUS DER SEILBAHNTECHNIK ENTSTEHEN SCHWINGUNGEN, DIE SICH AUF ANDERE GEBÄUDETEILE ÜBERTRAGEN KÖNNEN. DIES IST BEI DER KONSTRUKTIVEN AUSLEGUNG (FUNDIERUNG, GEBÄUDESCHNITTSTELLEN, ETC.) ZU BERÜCKSICHTIGEN.

± 0.00 = 1426.10m
(EIN-/AUSSTIEGSNIVEAU)

HOCHBAU SIEHE HOCHBAUPLÄNE

±0.00m DK FERTIG BODEN — GUMMIMATTEN — GITTERROST — UNTERBAU: STAHLKONSTRUKTION

STEHER 1 + 4

WAA0004672 Mitte_Tal 24/04/2019
Anschlußkräfte am Anschlußpunkt (lt. Zeichnung) — 8-MGD MERRITTS

1 Ständige Einwirkungen	Fx	Fy	Fz	Mx	My	Mz
1.1 Eigengewicht Seilbahntechnik (inkl. Bahnhofsausfahrt)	± 15		175	± 75	± 50	
1.2 Eigengewicht Dach oder Deckel			40			
1.3 Eigengewicht durch starren Antrieb oder starre Umkehr						
2 Veränderliche Einwirkungen						
2.1						
2.1.1						
2.1.2						
2.2 Seile						
2.2.1 Seilablenkungen und Seilzug			50	± 25		
2.2.2 Telefon- oder Steuerseil			30			
2.3 Schnee (qs = 4.00 kN/m²)						
2.3.1 Beidseitig 100% Schnee			250		± 40	
2.3.2 Einseitig 100% Schnee			125	± 285	± 10	
2.3.3						
2.3.4 Schneelast auf Bahnhofsausfahrt			-5	± 10		
2.4 Wind (qa = 1.20 kN/m²; qi = 0.25 kN/m²)						
2.4.1 Wind quer zur Bahnachse in Betrieb		± 10		± 40		
2.4.2 Wind quer zur Bahnachse außer Betrieb		± 40		± 195		
2.5 Wind auf 100 % Schnee						
2.5.1 Wind auf 100 % Schnee quer zur Bahnachse in Betrieb		± 5		± 30		
2.5.2 Wind auf 100 % Schnee quer zur Bahnachse außer Betrieb		± 25		± 135		
2.6 Kräfte und Momente aus Antrieb oder Umkehr						
2.6.1						
2.6.2						
2.7						
2.7.1						
2.7.2						
2.7.3						
3 Aussergewöhnliche Einwirkungen						
3.1 Seismische Einwirkungen (Erdbeben a_xy = 1.37 m/s²)						
3.1.1 Seismische Einwirkungen in x-Richtung			± 10			
3.1.2 Seismische Einwirkungen in y-Richtung		± 30		± 130		
3.1.3 Seismische Einwirkungen in z-Richtung			± 20			
3.2						
3.3						

Kräfte und Momente gelten für den Endausbau
Kräfte in [kN] und Momente in [kNm]
Angaben der Kräfte und Momente ohne Teilsicherheitsbeiwerte

x ... Bahnachse
y ... Horizontalachse
z ... Vertikalachse

MITTLERER STEHER 2 + 3

WAA0004672 Mitte_Tal 24/04/2019
Anschlußkräfte am Anschlußpunkt (lt. Zeichnung) — 8-MGD MERRITTS

1 Ständige Einwirkungen	Fx	Fy	Fz	Mx	My	Mz
1.1 Eigengewicht Seilbahntechnik (inkl. Bahnhofsausfahrt)			215	± 125		
1.2 Eigengewicht Dach oder Deckel			40			
1.3 Eigengewicht durch starren Antrieb oder starre Umkehr						
2 Veränderliche Einwirkungen						
2.1						
2.1.1						
2.1.2						
2.2 Seile						
2.2.1 Seilablenkungen und Seilzug			-50	± 25		
2.2.2 Telefon- oder Steuerseil	125		-30			
2.3 Schnee (qs = 4.00 kN/m²)						
2.3.1 Beidseitig 100% Schnee			230			
2.3.2 Einseitig 100% Schnee			115	± 260		
2.3.3						
2.3.4 Schneelast auf Bahnhofsausfahrt			25	± 35		
2.4 Wind (qa = 1.20 kN/m²; qi = 0.25 kN/m²)						
2.4.1 Wind quer zur Bahnachse in Betrieb		± 10		± 10		± 20
2.4.2 Wind quer zur Bahnachse außer Betrieb		± 40		± 40		± 60
2.4.3 Wind in Bahnache in Betrieb	± 5					
2.4.4 Wind in Bahnache außer Betrieb	± 25					
2.5 Wind auf 100 % Schnee						
2.5.1 Wind auf 100 % Schnee quer zur Bahnachse in Betrieb		± 5		± 15		± 10
2.5.2 Wind auf 100 % Schnee quer zur Bahnachse außer Betrieb		± 20		± 50		± 40
2.5.3 Wind auf 100 % Schnee in Bahnache in Betrieb	± 5					
2.5.4 Wind auf 100 % Schnee in Bahnache außer Betrieb	± 10					
2.6 Kräfte und Momente aus Antrieb oder Umkehr						
2.6.1						
2.6.2						
2.7						
2.7.1						
2.7.2						
2.7.3						
2.7.4						
3 Aussergewöhnliche Einwirkungen						
3.1 Seismische Einwirkungen (Erdbeben a_xy = 1.37 m/s²)						
3.1.1 Seismische Einwirkungen in x-Richtung	± 70		± 10			
3.1.2 Seismische Einwirkungen in y-Richtung		± 40		± 40		
3.1.3 Seismische Einwirkungen in z-Richtung			± 30			
3.2						
3.3 Überlast Spannhydraulik (Seilzugerhöhung) 2 S	siehe Detail Betonsteher					

Kräfte und Momente gelten für den Endausbau
Kräfte in [kN] und Momente in [kNm]
Angaben der Kräfte und Momente ohne Teilsicherheitsbeiwerte
Rev. 19 (V 2.1)

A L L G E M E I N :

* KRÄFTE GELTEN FÜR ANFANGS UND ENDAUSBAU
* BEI ÖRTLICHEN KRAFTEINLEITUNGEN SIND ENTSPRECHENDE RÜCK= HALTE- UND SPALTZUGARMIERUNGEN ZU BERÜCKSICHTIGEN
* WIND-, SCHNEELASTEN SIND ZU BEACHTEN!
* ZU DEN STATIONSAUFLAGERN, SCHALTSCHRÄNKEN, KABINENFÜHRUNGEN, HUBPODESTEN, GITTERROSTFLÄCHEN UND ABSTURZSICHERUNGEN SIND ENTSPRECHEND DEN VORSCHRIFTEN ERDUNGSBÄNDER ZU VERLEGEN (ÜBERSTAND MIND. 1 M)!
* AN ANKERSCHRAUBEN DARF NICHT GESCHWEISST ODER GEHEFTET WERDEN! (BRUCHGEFAHR !!!)
* HYDRAULIK- UND ELEKTROLEITUNGEN WERDEN GETRENNT VERLEGT!
* ALLE MASSE IN CM
* LICHTE MINDESTMAßE (TÜREN, USW.) FÜR DEN ANTRANSPORT DER SCHALTSCHRÄNKE: H= 230 CM, B= 90 CM
* FÜR DIE HAUSELEKTRIK SIND ZUSÄTZLICHE LEERROHRE VORZUSEHEN !
* AUSFÜHRUNG HOCH- UND STAHLBAU LAUT PLÄNE FÜR HOCH-/STAHLBAU !

⌖ Angriffspunkte der Kräfte lt Tabelle

MITGELTENDE UNTERLAGEN

POSITION	BENENNUNG	IDENTNUMMER	ZEICHNUNGSNUMMER
50	DETAIL BAHNSTEIGSAEULE	11459201	20168158E301101.F
51	DETAIL EINSTIEGSBEGRENZUNG	11481084	20174630E301101.B
52	DETAIL FAHRZEUGFUEHRUNG INNEN	11375685	20156453E301101.C
53	DETAIL FAHRZEUGFUEHRUNG AUSSEN	11497101	20179529E301101.B
54	SCHNITTPLAN BEDIENTISCH	11476032	20173305E003000.A
60	KOMANDORAUM	10760063	33001298D009902.B
61	SCHAL. UND BEWEHRUNGSPLAN FÜR CONTAINER	10713875	1010984 / 1011201 / 975441
62	ANSCHLUSSPLAN FÜR CONTAINER	10713863	33001290D009902.A
63	VERLEGEPLAN F. E+HYD. LEITUNGEN IM KABELKELLER	10787230	33001423D009904
-	LICHTRAUM	11643904	20181480E001100.A

Maßtoleranzen nach ÖNORM B 1100 / Toleranzklasse 16 / DIN 18202 Bl.4 (Maße in cm)
Dimensional tolerances as per ÖNORM B 1100 / tolerance class 16 / DIN 18202 page 4. (dimensions in cm)

Index	Änderung	Datum	Name
b	Aufschüttung Ausfahrt Richtung Talstation zugefügt! Schaltschrank zugefügt!	2019-05-24	Meissner Armin
a	Anker vom Portal bei Ausfahrt auf M37 geändert. Pos. 20-23.	2019-05-10	Meissner Armin

Ausführung — IDENT-NR. 11853773

Doppelmayr® Innova Patent GmbH, Rickenbacherstr. 8-10, A-6960 WOLFURT/AUSTRIA
Ø-Klasse: 0
Maßstab 1/50, Faktor: 2.5

	Datum	Name
gezeichnet	2019-04-11	Meissner Arm
gepr.		
gesp.	2019-05-24/11:42:01	Meissner Armi

Anlage 8-MGD MERRITTS
Auftrag WAA0004672 Stück X
Masse roh kg
Plotvermerk 2019-05-24 RE — IFS plotted: root

ANSCHLUSSPLAN MITTE

DURCHFAHRT
8-MGD UNIG-M 5.2m v=5m/s

Ursprungszng. Nr. 20217987E001101
ZEICHNUNGSNR. 20218321E001101 Index b

1-Id. 11853773

MID STATION LAYOUT

Scale: 1:500

Contours - 1m Interval

Drawing Title: MERRITTS 8–MGD MID STATION LAYOUT	Drawn: J BUCKLE	Date: 07/08/2019	Scale: NOTED	Third Angle Projection
	Checked: S TURNER	Date: 07/08/2019	Material: –	
	Approved: S TURNER	Date: 07/08/2019	Finish: –	
Project: MERRITTS 8–MGD	Sub Project: CIVIL	Project No–Drawing No: 2018–07–C–001	Sheet: 1 of 1	Revision: B
File: C:\Users\James\Dropbox (Doppelmayr Australia)\Merritts 8–MGD\Profile\Merritts Gondola Profile–Plan 20190806.dwg			All dimensions in millimeters. DO NOT SCALE. If in doubt ask.	

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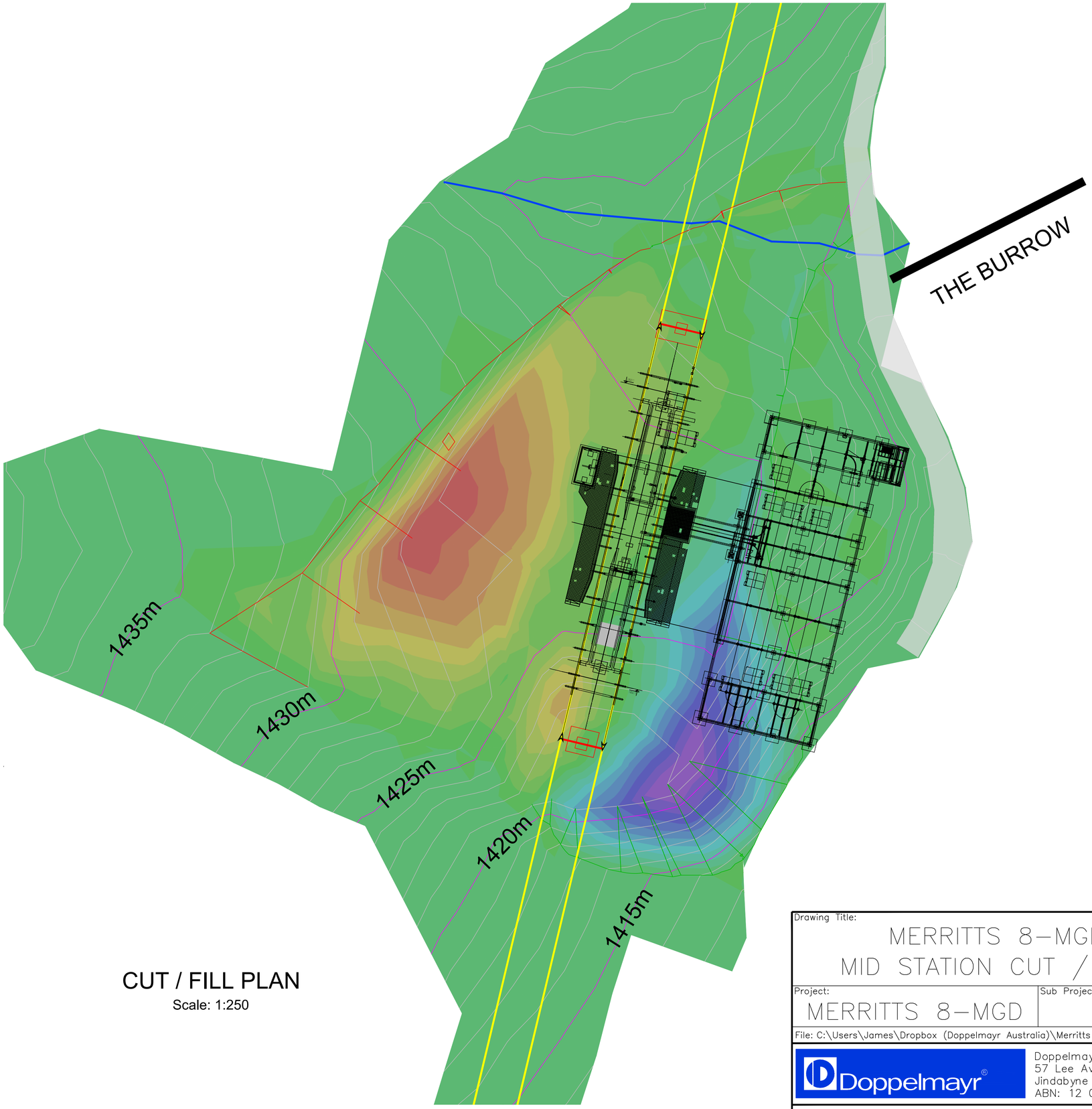
Email: info@doppelmayr.com.au

Customer: KOSCIUSZKO THREDBO

A3



CUT / FILL PLAN

Scale: 1:250

Elevations Table			
Number	Minimum Elevation	Maximum Elevation	Color
1	−5.00	−4.50	
2	−4.50	−4.00	
3	−4.00	−3.50	
4	−3.50	−3.00	
5	−3.00	−2.50	
6	−2.50	−2.00	
7	−2.00	−1.50	
8	−1.50	−1.00	
9	−1.00	−0.50	
10	−0.50	0.00	
11	0.00	0.50	
12	0.50	1.00	
13	1.00	1.50	
14	1.50	2.00	
15	2.00	2.50	
16	2.50	3.00	
17	3.00	3.50	
18	3.50	4.00	
19	4.00	4.50	
20	4.50	5.00	

FILL: 1970m^3

CUT: 3457m^3

NET: 1487m^3 UNBULKED

CONTOUR INTERVAL: 1m

Drawing Title: MERRITTS 8−MGD MID STATION CUT / FILL	Drawn: J BUCKLE	Date: 07/08/2019	Scale: NOTED	Third Angle Projection
	Checked: S TURNER	Date: 07/08/2019	Material: −	
	Approved: S TURNER	Date: 07/08/2019	Finish: −	
Project: MERRITTS 8−MGD	Sub Project: CIVIL	Project No−Drawing No: 2018−07−C−002	Sheet: 1 of 1	Revision: D

File: C:\Users\James\Dropbox (Doppelmayr Australia)\Merritts 8−MGD\Profile\Merritts Gondola Profile−Plan 20190806.dwg

All dimensions in millimeters. DO NOT SCALE. If in doubt ask.

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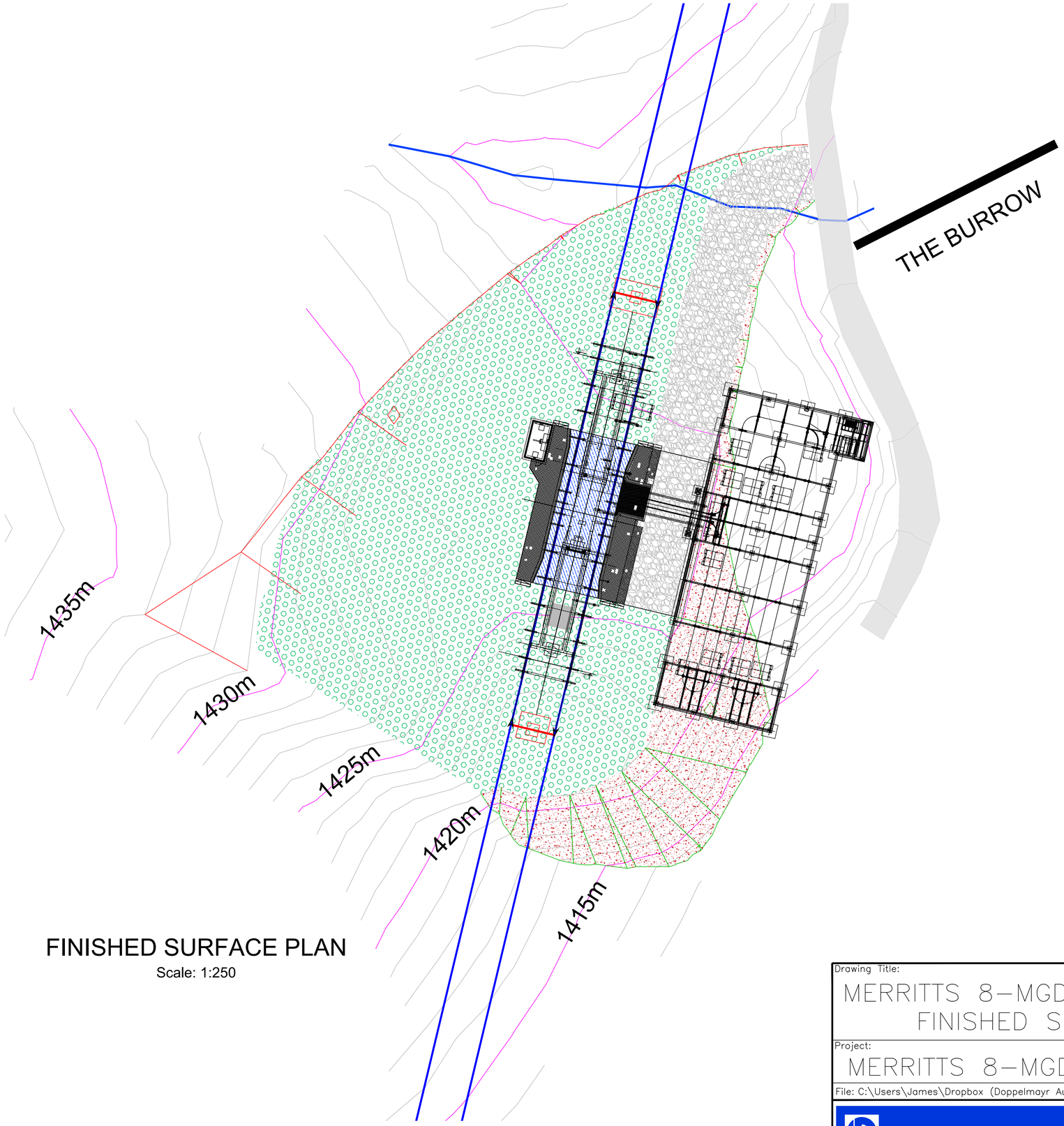
Customer: KOSCIUSZKO THREDBO

A1



FINISHED SURFACE PLAN

Scale: 1:250

LEGEND

- REVEGETATED SURFACE
- COMPACTED GRAVEL (ACCESS TRACK)
- REINFORCED SOIL BATTER - GRASS REVEGATED
- CONCRETE

CONTOURS - 1m INTERVAL

Drawing Title: MERRITTS 8–MGD MID–STATION FINISHED SURFACES	Drawn: J BUCKLE	Date: 07/08/2019	Scale: NOTED	Third Angle Projection
	Checked: S TURNER	Date: 07/08/2019	Material: –	
	Approved: S TURNER	Date: 07/08/2019	Finish: –	
Project: MERRITTS 8–MGD	Sub Project: CIVIL	Project No–Drawing No: 2018–07–C–003	Sheet: 1 of 1	Revision: D
File: C:\Users\James\Dropbox (Doppelmayr Australia)\Merritts 8–MGD\Profile\Merritts Gondola Profile–Plan 20190806.dwg			All dimensions in millimeters. DO NOT SCALE. If in doubt ask.	

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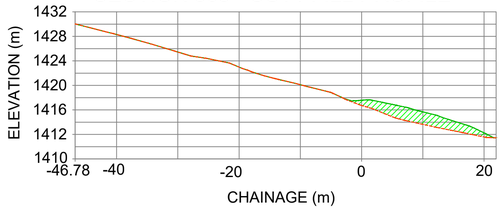
Customer: KOSCIUSZKO THREDBO

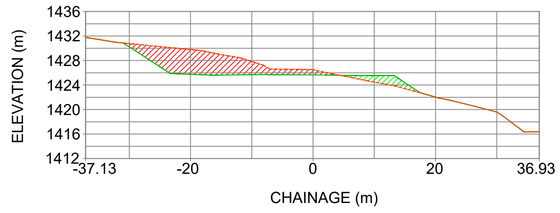
A1

SECTION 568 - CUT / FILL PROFILE



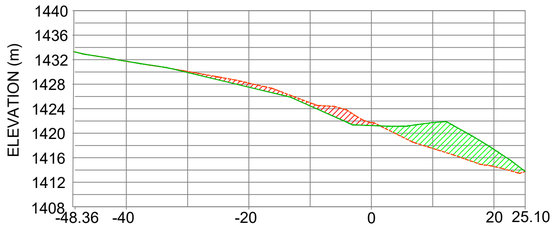
CUT (m)	0	0	0	0	0	0	0
FILL (m)	0	0	0	0	0.86	2.04	0.67

SECTION 604- CUT/FILL PROFILE



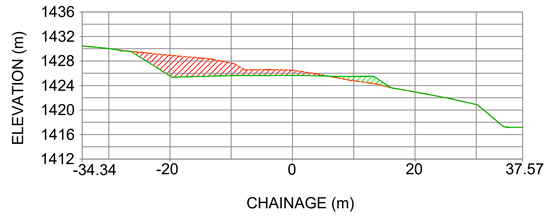
CUT (m)	0.53	4.04	2.16	0.84	0	0	0
FILL (m)	0	0	0	0	1.08	0	0

SECTION 577- CUT / FILL PROFILE



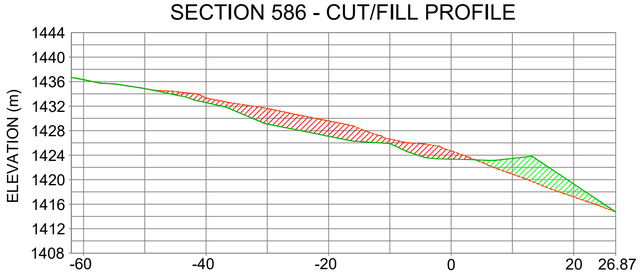
CUT (m)	0	0	0.67	0.51	0.50	0	0
FILL (m)	0	0	0	0	0	4.22	2.78

SECTION 613 - CUT/FILL PROFILE



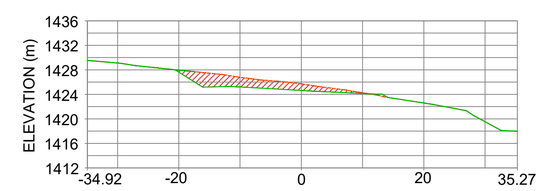
CUT (m)	0	3.36	2.06	0.87	0	0	0
FILL (m)	0	0	0	0	0.69	0	0

SECTION 586 - CUT/FILL PROFILE



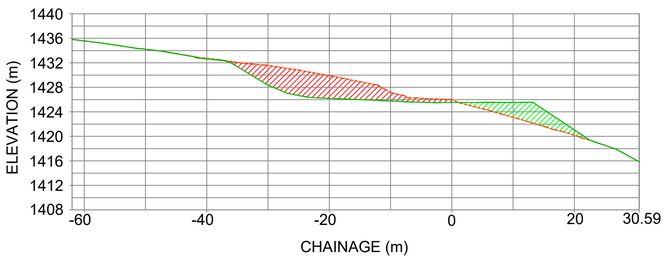
CUT (m)	0	0	0.76	2.52	2.51	0.73	1.28	0	0
FILL (m)	0	0	0	0	0	0	0	2.57	2.11

SECTION 622 - CUT/FILL PROFILE



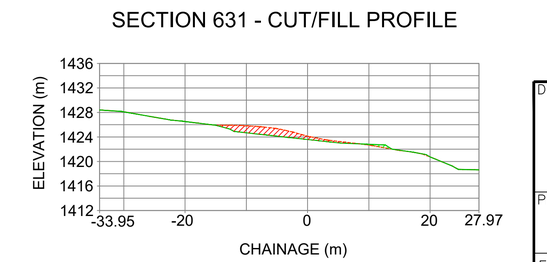
CUT (m)	0	0	1.57	1.09	0	0	0
FILL (m)	0	0	0	0	0	0	0

SECTION 595 - CUT/FILL PROFILE



CUT (m)	0	0	0	3.23	3.70	1.43	0.47	0	0
FILL (m)	0	0	0	0	0	0	0	2.43	0.88

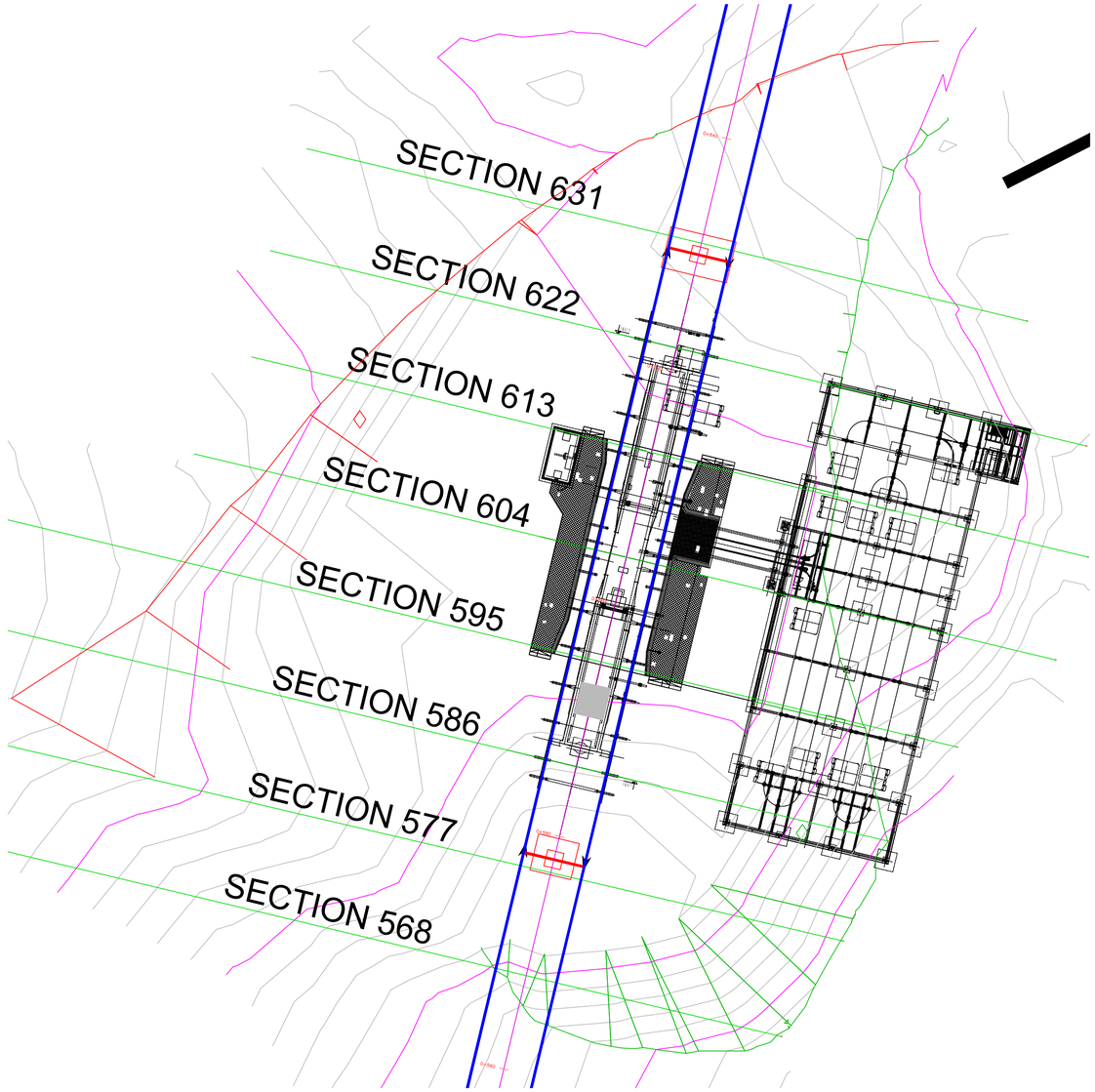
SECTION 631 - CUT/FILL PROFILE



CUT (m)	0	0	1.32	0.53	0	0
FILL (m)	0	0	0	0	0.15	0

LEGEND

- FINISHED SURFACE
- EXISTING SURFACE
- FILL (REINFORCED AND COMPACTED)
- CUT



SECTION LAYOUT PLAN

Scale: 1:250

Drawing Title: MERRITTS 8–MGD MID STATION CUT / FILL SECTIONS	Drawn: J BUCKLE	Date: 8/8/219	Scale: NOTED	Third Angle Projection
	Checked: S TURNER	Date: 8/8/2019	Material: –	
	Approved: S TURNER	Date: 8/8/2019	Finish: –	
Project: MERRITTS 8–MGD	Sub Project: CIVIL	Project No–Drawing No: 2018–07–C–006	Sheet: 1 of 1	Revision: B
File: C:\Users\James\Dropbox (Doppelmayr Australia)\Merritts 8–MGD\Profile\Merritts Gondola Profile–Plan 20190806.dwg			All dimensions in millimeters. DO NOT SCALE. If in doubt ask.	

Doppelmayr®
Doppelmayr Australia Pty Ltd.
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Email: info@doppelmayr.com.au

Customer: KOSCIUSZKO THREDBO

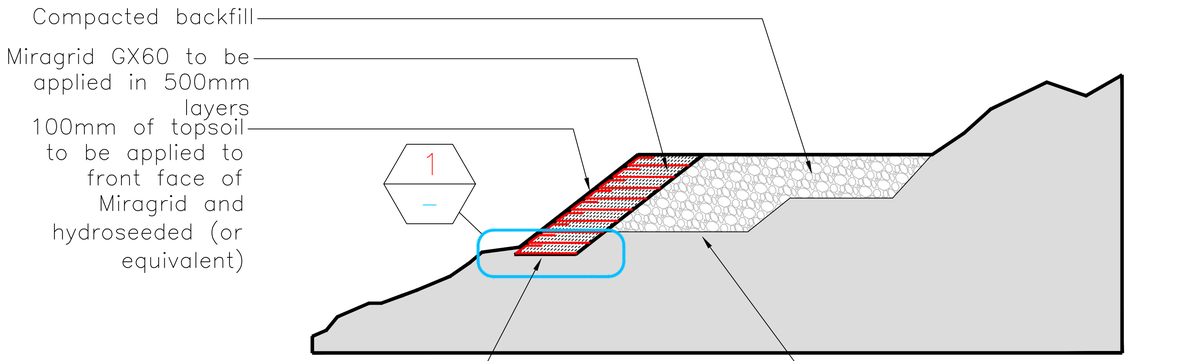
A1

Numbers indicate the number of layers of reinforcing required

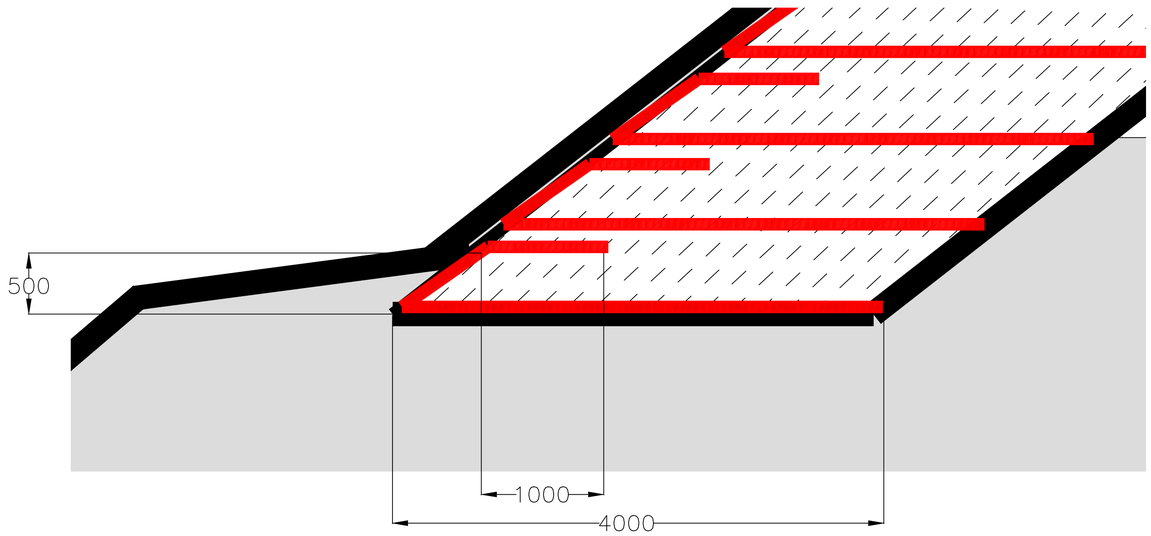
SOIL REINFORCEMENT LAYOUT PLAN

Scale: 1:150

CONTOURS - 1m INTERVAL



Typical Cross Section Thru Fill Area



1 – DETAIL

Drawing Title: MERRITTS 8–MGD MID–STATION SOIL REINFORCEMENT		Drawn: J BUCKLE	Date: 07/08/2019	Scale: NOTED	Third Angle Projection
		Checked: S TURNER	Date: 07/08/2019	Material: –	
		Approved: S TURNER	Date: 07/08/2019	Finish: –	
Project: MERRITTS 8–MGD	Sub Project: CIVIL	Project No–Drawing No: 2018–07–C–011		Sheet: 1 of 1	Revision: C

File: C:\Users\James\Dropbox (Doppelmayr Australia)\Merritts 8–MGD\Profile\Merritts Gondola Profile–Plan 20190806.dwg

All dimensions in millimeters. DO NOT SCALE. If in doubt ask.

Doppelmayr®
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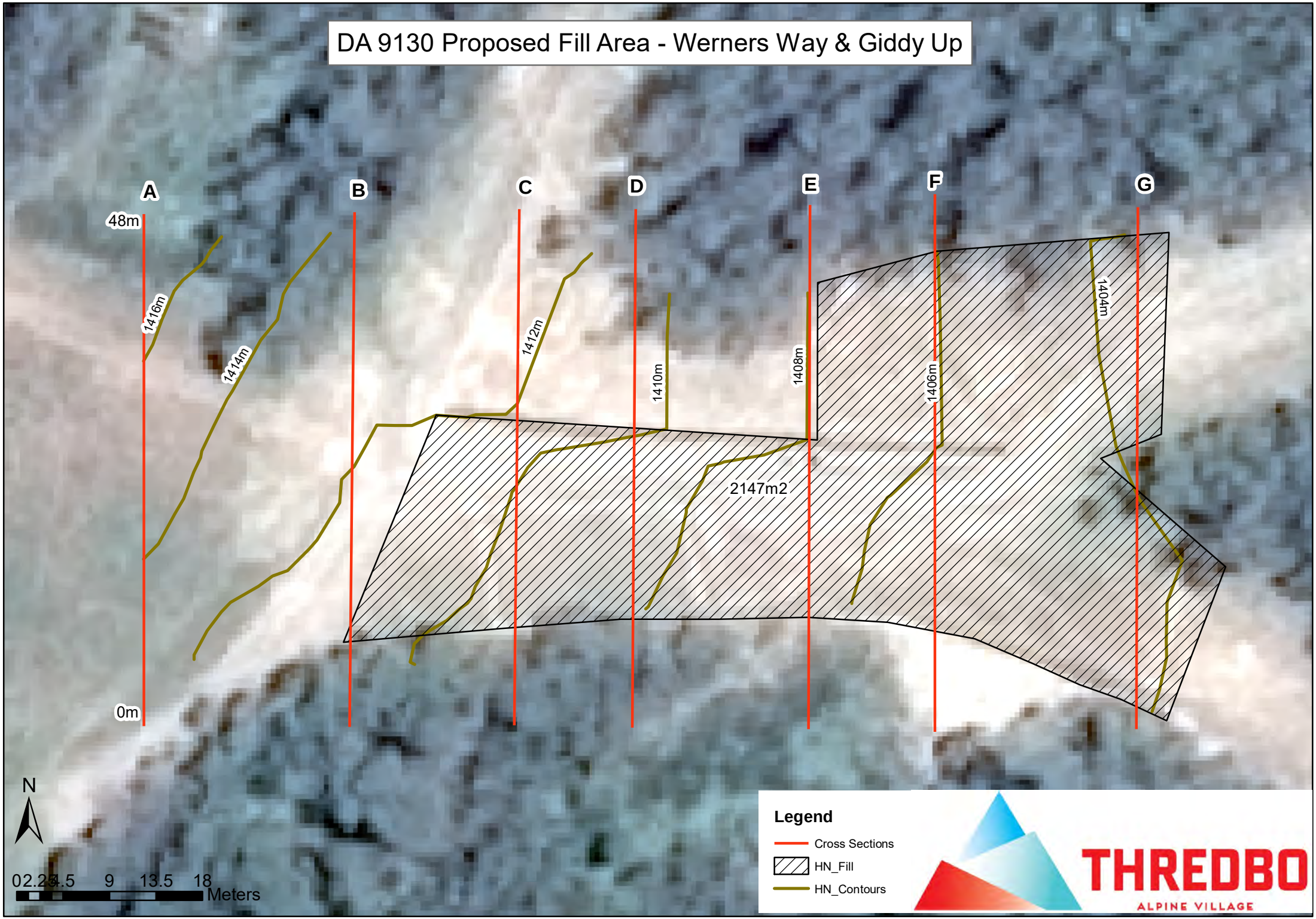
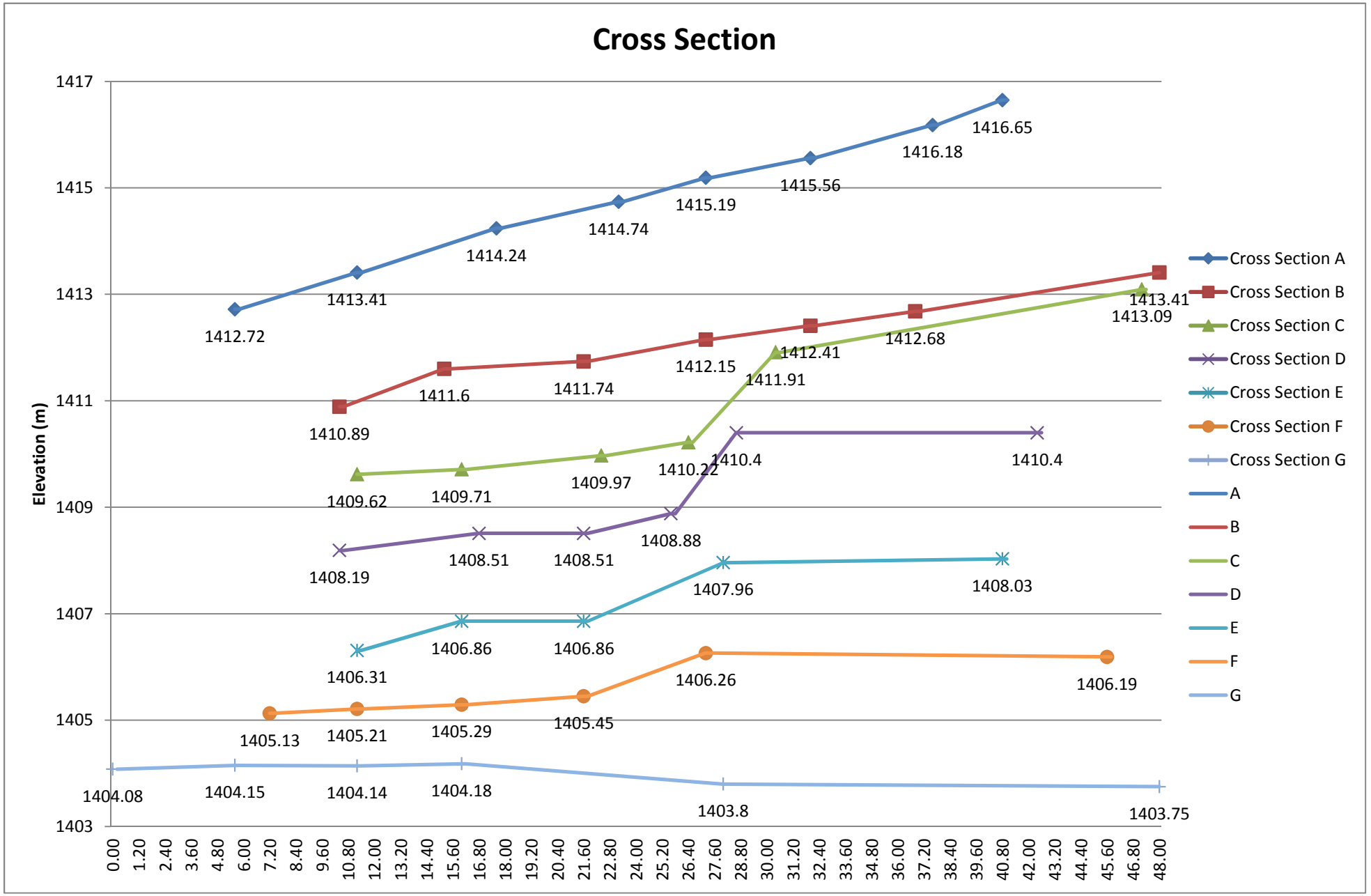
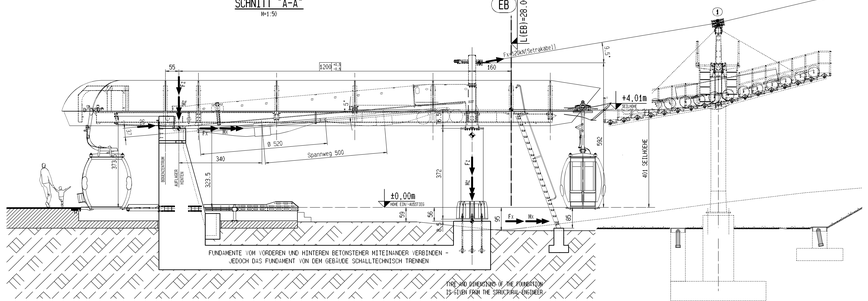
Customer: KOSCIUSZKO THREDBO

A1

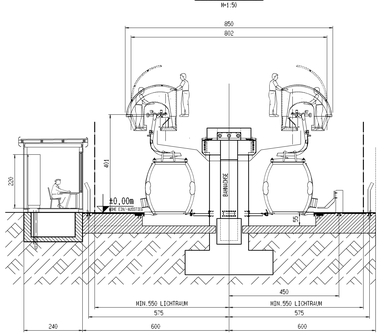

DA 9130 Proposed Fill Area - Werners Way & Giddy Up
A
B
C
D
E
F
G
48m
0m
1416m
1414m
1412m
1410m
1408m
1406m
1404m
2147m2
N
0 2.25 4.5 9 13.5 18
Meters
Legend
Cross Sections
HN_Fill
HN_Contours
THREDBO
ALPINE VILLAGE


Cross Section
Elevation (m)
1417
1415
1413
1411
1409
1407
1405
1403
1412.72
1413.41
1414.24
1414.74
1415.19
1415.56
1416.18
1416.65
1410.89
1411.6
1411.74
1412.15
1412.41
1412.68
1413.09
1413.41
1409.62
1409.71
1409.97
1410.22
1411.91
1410.4
1410.4
1408.19
1408.51
1408.51
1408.88
1406.31
1406.86
1406.86
1407.96
1408.03
1405.13
1405.21
1405.29
1405.45
1406.26
1406.19
1404.08
1404.15
1404.14
1404.18
1403.8
1403.75
0.00
1.20
2.40
3.60
4.80
6.00
7.20
8.40
9.60
10.80
12.00
13.20
14.40
15.60
16.80
18.00
19.20
20.40
21.60
22.80
24.00
25.20
26.40
27.60
28.80
30.00
31.20
32.40
33.60
34.80
36.00
37.20
38.40
39.60
40.80
42.00
43.20
44.40
45.60
46.80
48.00
Cross Section A
Cross Section B
Cross Section C
Cross Section D
Cross Section E
Cross Section F
Cross Section G
A
B
C
D
E
F
G

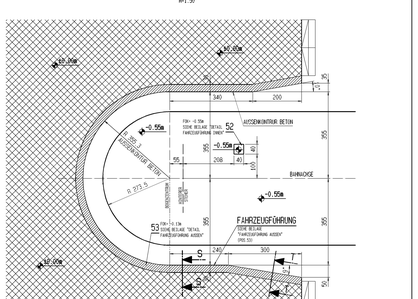
SCHNITT "A-A"
M=1:50



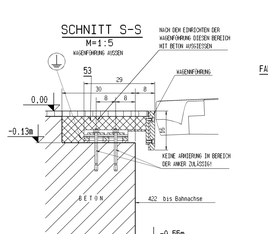
SCHNITT "B-B"
M=1:50



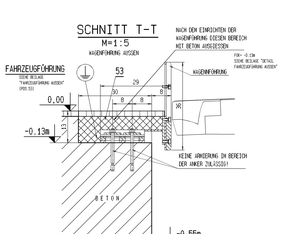
DETAIL "FAHRZEUGFÜHRUNG"
M=1:50



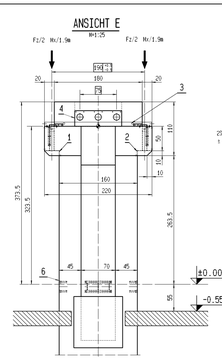
SCHNITT S-S
M=1:5



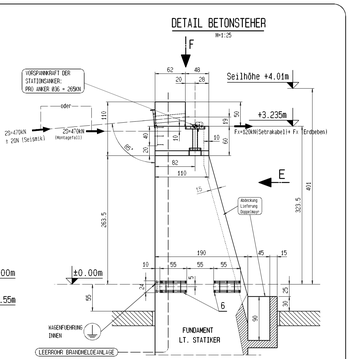
SCHNITT T-T
M=1:5



ANSICHT E
M=1:25

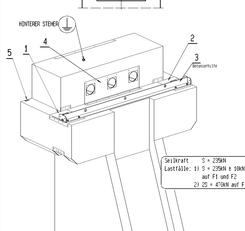


DETAIL BETONSTEHER
M=1:25

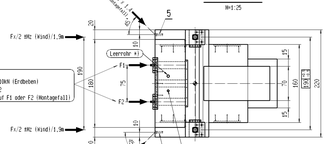


*) LEERROHR FÜHREN ZUR STATION FÜR BRANDMELDEANLAGE. DIE VERKABELUNG MUSS GETRENNT ZUR REGELNDEN VERKABELUNG GEFÜHRT SEIN. DIESE POSITION ENTFÄLLT DIE FA. DOPPELMAYR. DIE BRANDMELDEANLAGE IST NICHT IM LIEFERUMFANG DER FA. DOPPELMAYR.

HINTERER STEHER



ANSICHT "F"
M=1:25



Seilkraft S = 229kN
Lastfälle: H S = 229kN + 10kN (Erdbeben)
auf F1 und F2:
21.25 x 47kN auf F1 oder F2 (Montagefall)

LEERVERROHRUNG - DURCHBRUECHE

- fuer Installationen der Fa. Doppelmayr
- Leerrohre Lieferung und Einbau bauseits
- in offenen Kabelzugbereichen (z. B. Doppelboeden, Stahlunter-konstruktionen) muessen keine Leerrohre verlegt werden

1 ... 6 x Ø 10.0 cm hinterer Steher => Kommandoraum
2 ... 1 x Ø 5.0 cm Einstiegsbegrenzung => Kommandoraum
3 ... 1 x Ø 6.3 cm Bahnsteigsaeule 1 => Kommandoraum
4 ... 1 x Ø 6.3 cm Bahnsteigsaeule 2 => hinterer Steher
5 ... 1 x Ø 10.0 cm vorderer Steher => Kommandoraum

DIE LEERVERROHRUNG IST SO AUSZUFUEHREN, DASS SICH IN DEN ROHREN KEINE WASSERANSAMMLUNG BILDEN KANN - MINDESTBOGENRADIUS =10 x Ø LEERROHR !

DIE RESTLICHE LEERVERROHRUNG IST LAUT ANGABEN DER AUSFUEHRENDEN ELEKTRO-FIRMEN (HAUSELEKTRIKER, USW.) AUSZUFUEHREN !

LEERVERROHRUNG+DURCHBRÜCHE

- LIEFERUNG UND EINBAU DER LEERVERROHRUNG BAUSEITS, NICHT IM LIEFERUMFANG FA.DOPPELMAYR.
- FALLS LEERROHRE DURCH KABELTASSEN ERSETZT WERDEN, SIND DIESE EBENFALLS NICHT IM LIEFERUMFANG DER FA. DOPPELMAYR ENTHALTEN.
- UMFANG DER DURCHBRÜCHE BEI DEN STEHERN SIEHE AUF DEN EINHEITSPLÄNEN.
- ÜBERSCHNITTSANGABEN BEZIEHEN SICH AUF DEN INNENDURCHMESSER.
- ELEKTRO- UND HYDRAULIKLEITUNGEN WERDEN GETRENNT VERLEGT.
- DIE LEERVERROHRUNG IST SO AUSZUFÜHREN, DASS IN DEN ROHREN KEINE WASSERANSAMMLUNG BILDEN KANN.
- DIE ENDEN DER LEERROHRE SIND SO ZU VERSCHLIESSEN, DAMIT EIN WASSEREINTRITT WÄHREND DER BAUPHASE VERHINDERT WIRD.
- DIE LEERVERROHRUNG IST WASSERDICHT AUSZUFÜHREN.
- MAXIMALE LÄNGE ZOM, ANSONSTEN IST EIN ZWISCHENSCHACHT ERFORDERLICH. DER DURCHMESSER MUSS DEN MINDESTBIEGERADIEN DER GEWÄHLTEN LEITUNGEN ENTSPRECHEN.
- EINBAU BZW. VERLEGUNG SO GERADE WIE MÖGLICH, KEINE 90° BÖGEN VERWENDEN.
- MINDESTBIEGERADIUS BETRÄGT DAS 10FACHE DES LEERROHRDURCHMESSERS.
- MINDESTÜBERSTAND DER LEERROHRE 150MM.
- IN OFFENEN KABELZUGBEREICHEN (DOPPELBODEN, STAHLUNTERKONSTRUKTION) MÜSSEN KEINE LEERROHRE VERLEGT WERDEN.
- ZUSÄTZLICHE LEERVERROHRUNG Z.B. MAUSTECHROHR, BRANDMELDEANLAGEN) IST NACH ANGABEN DER AUSFÜHRENDEN FIRMEN ZU VERLEGEN.
- ERFORDERLICHE BRANDABSCHOTTUNGEN I.Z.M. BEI WAND- ODER DECKENDURCHFÜHRUNG SIND BAUSEITS ZU LIEFERN UND EINZUBAUEN.
- FÜR DEN TRANSPORT DER SCHALTSCHRÄNKE SIND MINDESTMASSE (TÜREN,...) ZU BERÜCKSICHTIGEN:
  KOMMANDO- U. ZUGNETZRAUM HÖHE 2300MM, BREITE 800MM
  NIEDERSPANNUNGSRAUM: HÖHE 2300MM, BREITE 950MM
- UMSTEMPELN FÜR DIE SCHALTSCHRÄNKE: LIEFERUNG BAUSEITS.

RESTLICHE LEERVERROHRUNG LAUT ANGABE DER ANDEREN AUSFÜHRENDEN E-FIRMEN.

ERDUNGEN:

FÜR INSTALLATIONEN DER FA. DOPPELMAYR

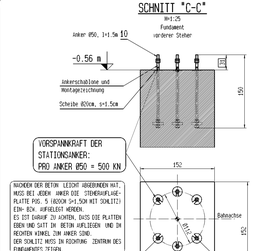
DIE RINNERDER MÜSSEN MIT DER GEBÄUDE-UND STRECKENERDUNG (POTENTIALAUSGLEICH) VERBUNDEN SEIN!

RUNDERDER Ø 1 CM - 1 METER (ÜBERSTAND

SCHWINGUNGEN:

AUS DER SEILBAHNTECHNIK ENTSTEHEN SCHWINGUNGEN, DIE SICH AUF ANDERE VERBINDETEILE ÜBERTRAGEN KÖNNEN. DIES IST BEI DER KONSTRUKTIVEN AUSLEGUNG (FUNDIERUNG, GEBÄUDESENDMITTELSTELLEN, ETC.) ZU BERÜCKSICHTIGEN.

SCHNITT "C-C"
M=1:25



NACHDEM DER BETON LEICHT ABGEBUNDEN HAT, MUSS BEI JEDEN ANKER DIE STEHERAUFLAGE-PLATTE POS. 5 (ASTM A-514,50 KSI SCHLITZ) EIN- BZW. AUFGELEGT WERDEN.
ES IST DARAUF ZU ACHTEN, DASS DIE PLATTEN EBEN UND SATT IM BETON AUFLIEGEN UND IN RECHTEN WINKEL ZUM ANKER SIND.
DER SCHLITZ MUSS IN RICHTUNG ZENTRUM DES FUNDAMENTES ZEIGEN.

± 0.00 = 1366.50m
(EIN-/AUSSTIEGSNIVEAU)

HOCHBAU SIEHE HOCHBAUPLÄNE

MITGELTENDE UNTERLAGEN

POSITION	BENENNUNG	ZEICHNUNGSNR.	ZEICHNUNGSINDEX
50	DETAIL BAHNSTEIGSCHACHT	11450201	2020-07-30 13:03:37
52	DETAIL EINSTIEGSBEGRENZUNG	11450304	2017-10-20 13:03:31
53	DETAIL FAHRZEUGFÜHRUNG ANKER	11450302	2017-10-20 13:03:31
53	DETAIL FAHRZEUGFÜHRUNG ASTEN	11450301	2017-10-20 13:03:31
54	SCHNITTPLAN BESTEHEND	11470032	2017-12-08 13:03:00
55	FUNDAMENT	10750100	2020-12-08 13:03:00
61	SCHW. UND BEWEHRUNGSPLAN FÜR ERDANKER	10713003	2020-07-30 13:03:37
62	ANKERLOCHPLAN FÜR ERDANKER	10713001	2020-12-08 13:03:00
63	KERNLOCHPLAN F. EINHEIT LEITUNGEN IM KABELKELLER	10713100	2020-12-08 13:03:00
1	LEERROHR	11450004	2020-07-30 13:03:37

ALLGEMEIN:

- KRÄFTE GELTEN FÜR ANFANGS UND ENDAUSBAU
- BEI ÄRTLICHEN KRAFTEINLEITUNGEN SIND ENTSPRECHENDE ROCK+HALTE- UND SPALTZUGBEWEHRUNGEN ZU BERÜCKSICHTIGEN
- WIND-, SCHNEELASTEN SIND ZU BEACHTEN!
- ZU DEN STATIONSAUFLAGERN, SCHALTSCHRÄNKEN, KABINENÖFFNUNGEN, HAUPTSEILEN, LEITERBOLZLÖCHERN UND ABSTURZSICHERUNGEN SIND ENTSPRECHENDE ERDUNGSBÄNDER ZU VERLEGEN (ÜBERSTAND MIND. 1 M)!
- AN ZUGBERGSCHRAUBEN DARF NICHT GESCHWEISST ODER GEHEFTET WERDEN ! BRUCHGEFAHR !!!)
- HYDRAULIK- UND ELEKTROLEITUNGEN WERDEN GETRENNT VERLEGT!
- ALLE MASSE IN CM
- LEICHTE MINDESTMASSE (TÜREN, USW.) FÜR DEN ANTRANSPORT DER SCHALTSCHRÄNKE = BH 230 CM, B= 90 CM
- FÜR DIE HAUSELEKTRIK SIND ZUSÄTZLICHE LEERROHRE VORZUSEHEN !
- AUSFÜHRUNG HOCH+ UND STAHLBAU LAUT PLANE FÜR HOCH+/STAHLBAU !

Angriffspunkte der Kräfte lt Tabelle

A	Strukturänderungen	2019-04-25	Kramer MSc				
Index	Änderungsgrund	Datum	Name				

Doppelmayr Seilbahnen GmbH, A-6922 Wolfurt, Austria

Maßstab	1/50
Blattgröße	A1
Blatt-Nr.	1
Anzahl Bl.	2

Gezeichnet	2019-04-25 Kramer MSc
Geprüft	
Genehmigt	
Ersetzt für	
Ersetzt durch	

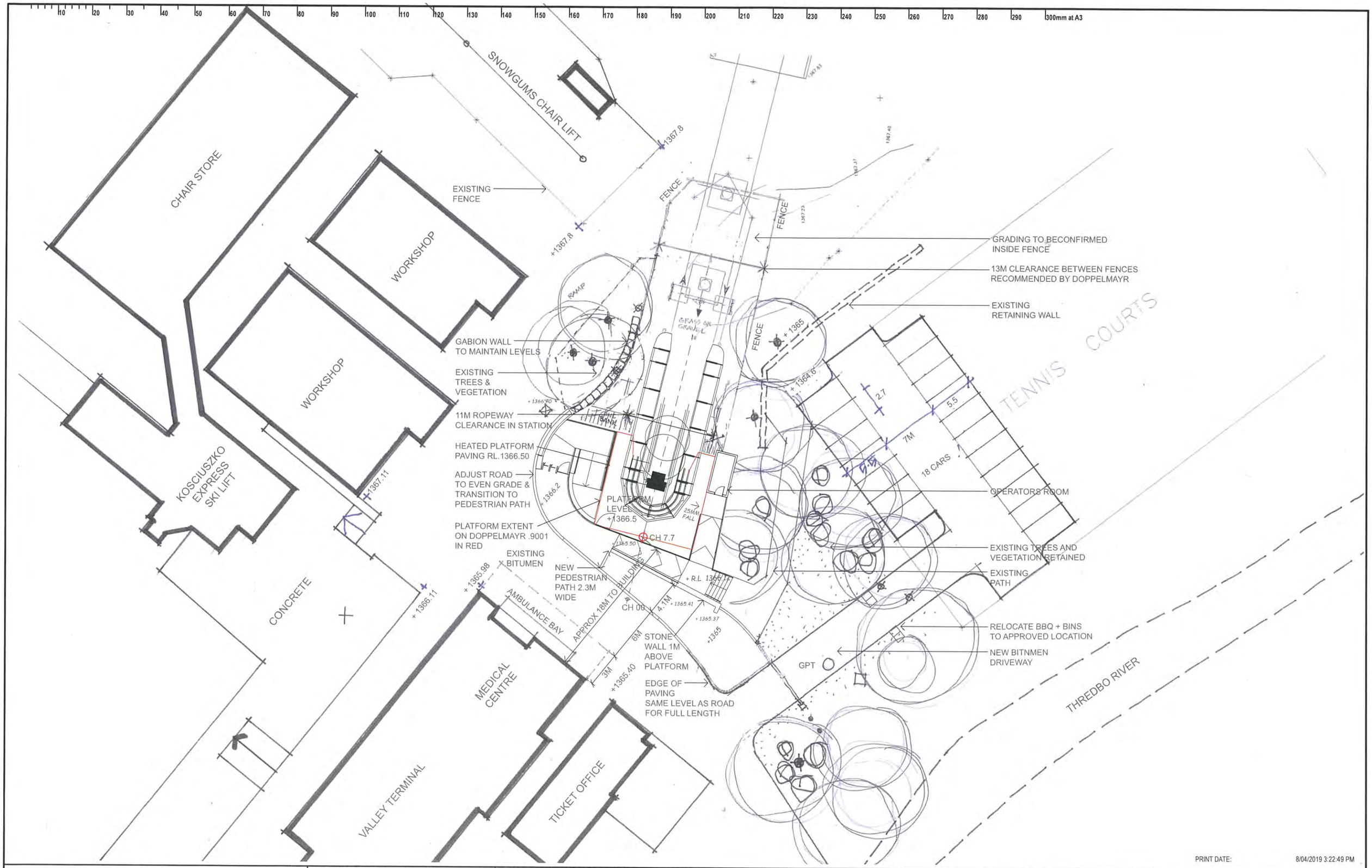
Auftrag: D-H02 HERBSTS
Auftrag-Nr.: MAA0004672
Titel: ANSCHLUSSPLAN TAL UNTERE FAHRBAHN D-H02 SN150-HK 5.2m ++5m/s

Zeichnungs-Nr.: 11152356
Rev.: A

Kennzahl: 2020
Ident-Nr.: 20201208100103
Archiv-Nr.: 20217967004104
Rev. 19.0.2.2

Vorderer Steher	MAA0004672	Tal	25/04/2019
Geschlossene Leerrohrsysteme	D-H02 Herbsts Gondola		
Stückliste Einschnitten	Pos	Fz	Fz / Mx	My	Mz
1 Eingegossene Gelenkrohre	1		180	0	10
2 Eingegossene Rohr oder Dichtl	2		40		
3					
Verdeckte Leerrohrsysteme					
4 Eingegossene Rohr oder Dichtl oder Zement					
5.1 Spannweg rechts			80		10
5.2 Spannweg links			210		10
6 Rohr			40		
7.1 Verankerungen und Stütze			40		0
7.2 Stahler oder Steinerplatz			30		
8 Schwe ... (gs = 4.00 kN/m²)					
9.1 Bruderzug 100t Schwe			250		0
9.2 Linienzug 100t Schwe			250		0
10					
11 Mind ... (gs = 1.00 kN/m², g = 1.25 kN/m³)					
11 Mind quer zur Bahnachse im Betrieb			+ 50		+ 40
11 Mind quer zur Bahnachse außer Betrieb			+ 30		0
11 Mind auf 100 % Schwe					
11 Mind auf 100 % Schwe quer zur Bahnachse im Betrieb			+ 5		+ 30
11 Mind auf 100 % Schwe quer zur Bahnachse außer Betrieb			+ 20		+ 100
12					
13					
14					
15					
16					
17					
17.1					
17.2					
17.3					
Ausgegossene Einschnitten					
1.1 Stückliste Einschnitten in +Richtung (gs = konst = 1.27 kN/m³)					
1.2 Stückliste Einschnitten in +Richtung			+ 30		
1.3 Stückliste Einschnitten in +Richtung			+ 40		+ 100
1.3 Stückliste Einschnitten in +Richtung					+ 30
1.4 Stückliste Einschnitten in +Richtung			+ 80		+ 70
2.1 Seilzug an einem Zylinder					
2.2 Overall Spannhydraulik (Seilzugeinführung)					

Hinterer Steher	MAA0004672	Tal	25/04/2019
Geschlossene Leerrohrsysteme	D-H02 Herbsts Gondola		
Stückliste Einschnitten	Pos	Fz	Fz / Mx	My	Mz
1 Eingegossene Gelenkrohre			270	170	
2 Eingegossene Rohr oder Dichtl			40		
3					
Verdeckte Leerrohrsysteme					
4 Eingegossene Rohr oder Dichtl oder Zement				60	
5.1 Spannweg rechts				170	
5.2 Spannweg links				170	
6 Rohr					
7.1 Verankerungen und Stütze	8	+ 47 kN		1094	0
7.2 Stahler oder Steinerplatz				1094	Betonkeller
8 Schwe ... (gs = 4.00 kN/m²)				292	
9.1 Bruderzug 100t Schwe				292	
9.2 Linienzug 100t Schwe				1092.2Nm	
10					
11 Mind ... (gs = 1.00 kN/m², g = 1.25 kN/m³)					
11 Mind quer zur Bahnachse im Betrieb			+ 50	+ 30	+ 20
11 Mind quer zur Bahnachse außer Betrieb			+ 30	+ 20	+ 10
11 Mind auf 100 % Schwe					
11 Mind auf 100 % Schwe quer zur Bahnachse im Betrieb			+ 50	+ 30	+ 20
11 Mind auf 100 % Schwe quer zur Bahnachse außer Betrieb			+ 30	+ 20	+ 10
12					
13					
14					
15					
16					
17					
17.1					
17.2					
17.3					
Ausgegossene Einschnitten					
1.1 Stückliste Einschnitten in +Richtung (gs = konst = 1.27 kN/m³)					
1.2 Stückliste Einschnitten in +Richtung			+ 30		
1.3 Stückliste Einschnitten in +Richtung			+ 40		+ 100
1.3 Stückliste Einschnitten in +Richtung					+ 30
2.1 Seilzug an einem Zylinder			+ 20	+ 10	+ 100
2.2 Overall Spannhydraulik (Seilzugeinführung)	8	+ 50 kN	siehe Detail Bolzenplatte		



ISSUE	DATE	SUBJECT	AUTHORISED
A	06/07/18	FOR INFORMATION	ST
B	09/04/19	FOR COMMENT	ST

PROJECT MANAGER

SERVICES | STRUCTURE & CIVIL

This drawing should be read in conjunction with all relevant contracts, specifications and drawings. Dimensions are in millimetres. Levels are metres. Do not scale off drawings. Use figured dimensions only. Check dimensions on Site. Report discrepancies immediately.

PROJECT
MERRITTS GONDOLA BOTTOM STATION
THREDBO VILLAGE

CLIENT
EVENT Hospitality and Entertainment

AUTHORISED FOR ISSUE
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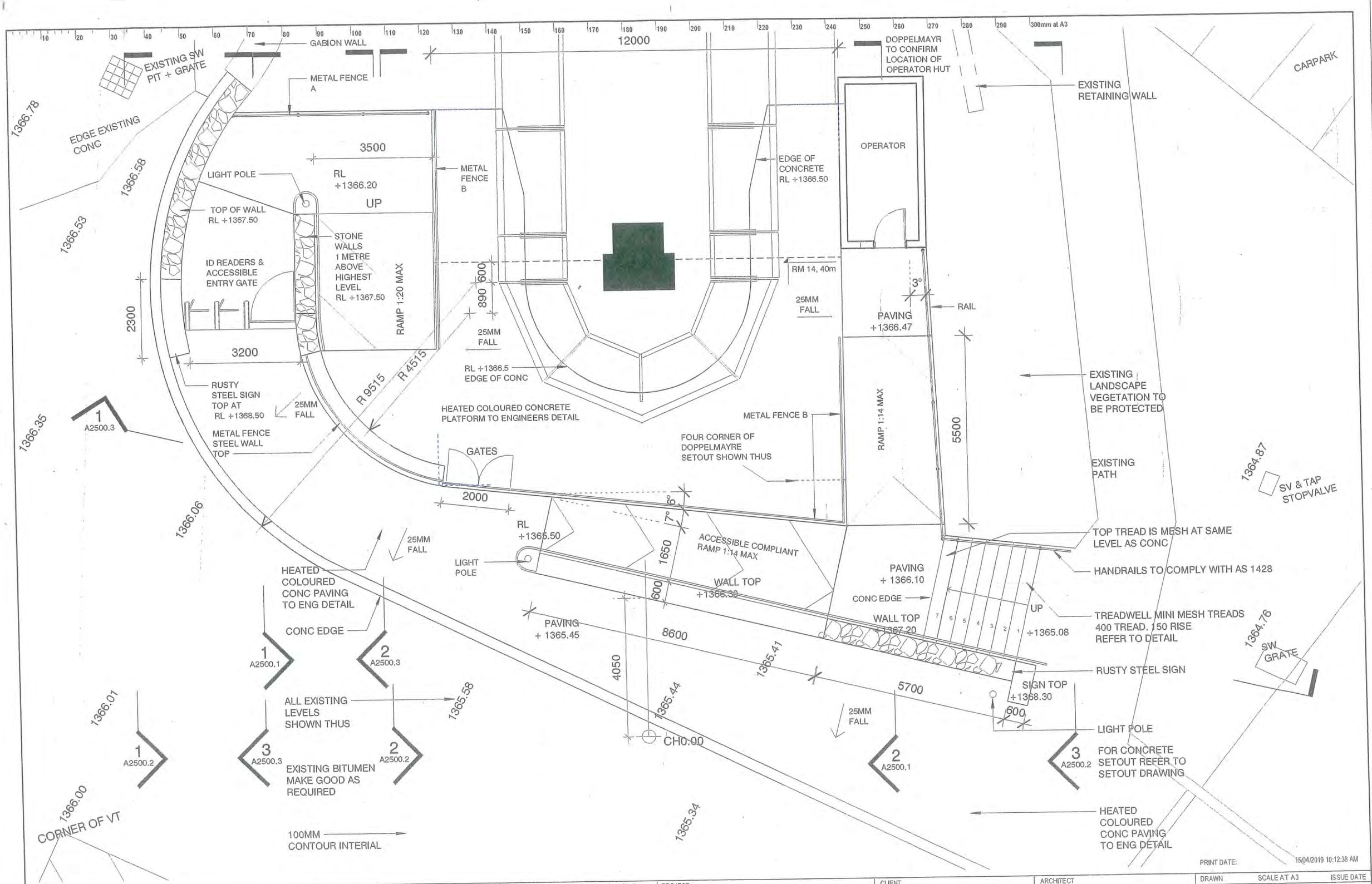
PRINT DATE: 8/04/2019 3:22:49 PM

DRAWN	SCALE AT A3	ISSUE DATE
ST		08/04/19

DESCRIPTION
BOTTOM STATION SITE PLAN

PROJECT No	DRAWING No	REVISION
18 421	A1.100	B



ISSUE	DATE	SUBJECT	AUTHORISED
A	09/04/19	UPDATED LAYOUT	ST
B	15/04/19	FOR COMMENT	ST

PROJECT MANAGER

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PROJECT
MERRITTS GONDOLA BOTTOM STATION

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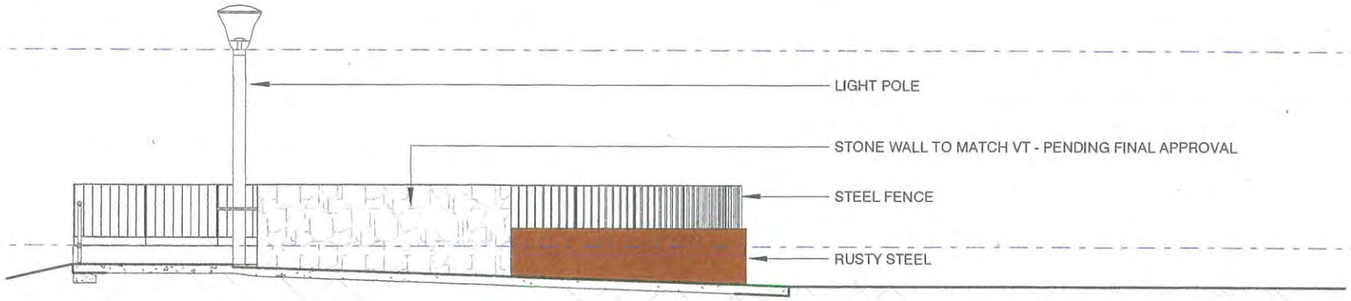
DRAWN	SCALE AT A3	ISSUE DATE
ST	1:100	15/04/19

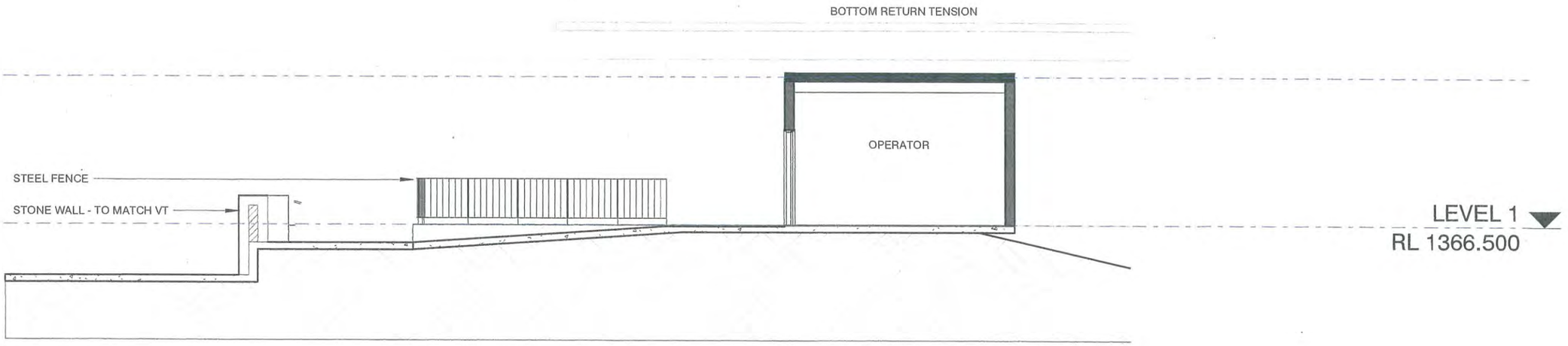
DESCRIPTION
LEVEL 1 GENERAL ARRANGEMENT PLAN

PROJECT No	DRAWING No	REVISION
18 421	A1.101	B

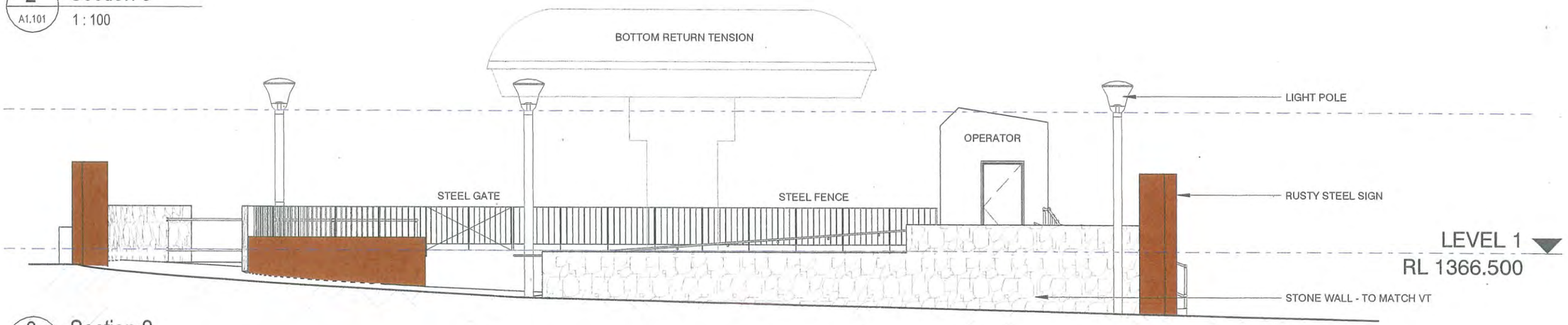
10 20 30 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300mm at A3



1 / A1.101 **Section 4**
1 : 100



2 / A1.101 **Section 3**
1 : 100



3 / A1.1002 **Section 2**
1 : 100

PRINT DATE: 15/04/2019 10:12:40 AM

ISSUE	DATE	SUBJECT	AUTHORISED
A	15/04/19	FOR COMMENT	ST

PROJECT MANAGER

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DRAWN	SCALE AT A3	ISSUE DATE
ST	1 : 100	15/04/19

DESCRIPTION
SECTIONS - SHEET 1

PROJECT No	DRAWING No	REVISION
18 421	A2500.1	A

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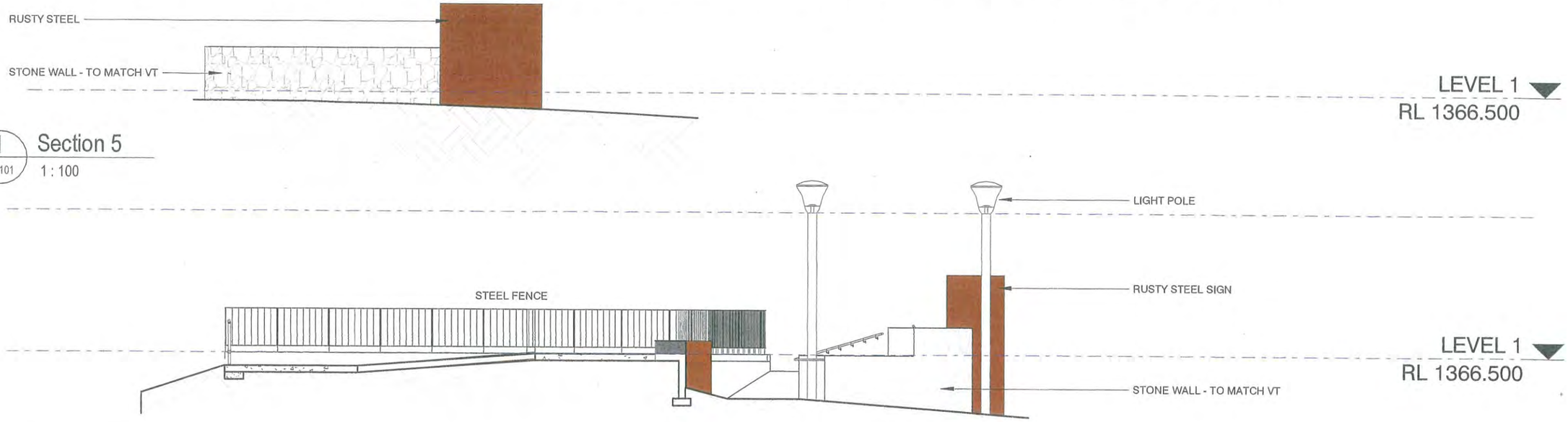
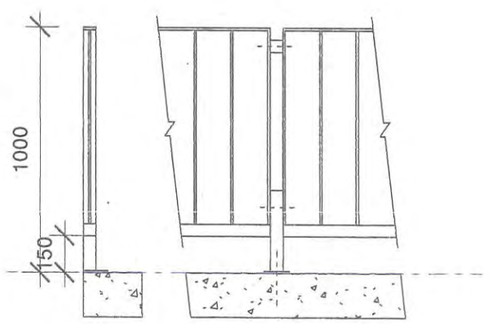


1 / A1.101 Section 5
1 : 100

2 / A1.101 Section 6
1 : 100

3 / A1.101 Section 7
1 : 100



4 / A1.3001 FENCE TYPE B
1 : 25

ISSUE	DATE	SUBJECT	AUTHORISED
A	15/04/19	FOR COMMENT	ST

PROJECT MANAGER

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PROJECT
MERRITTS GONDOLA BOTTOM STATION
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PRINT DATE: 15/04/2019 10:12:41 AM

DRAWN	SCALE AT A3	ISSUE DATE
Author	As indicated	15/04/19

DESCRIPTION
SECTIONS - SHEET 2

PROJECT No	DRAWING No	REVISION
18 421	A2500.2	A

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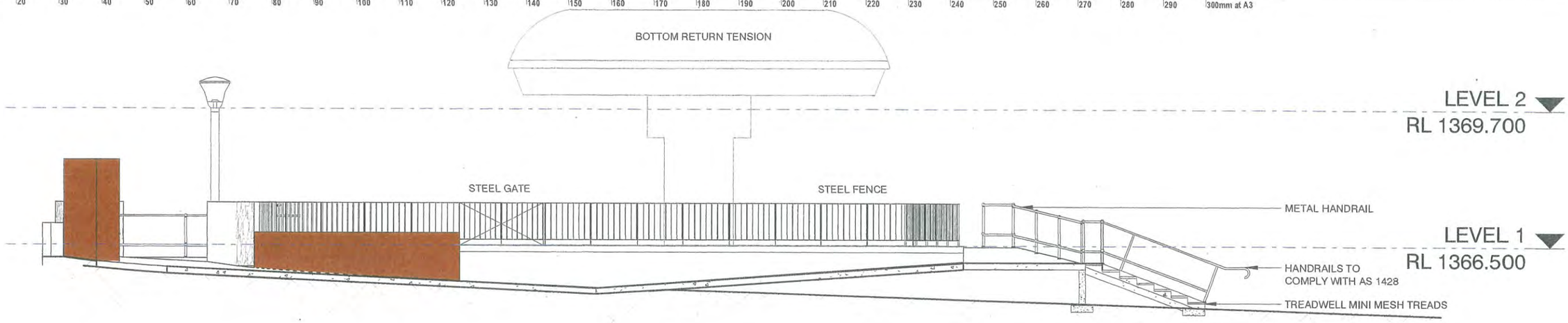
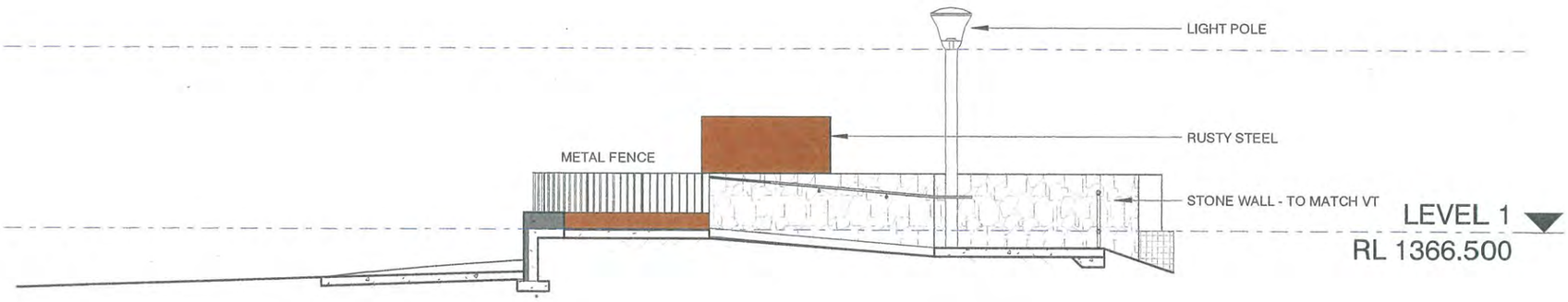
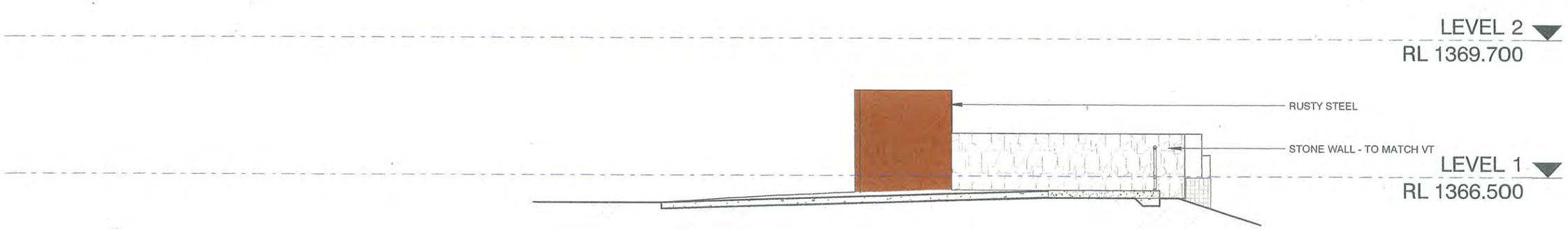


1 / A1.101 Section 8
1 : 100



2 / A1.101 Section 1
1 : 100



3 / A1.101 Section 9
1 : 100

PRINT DATE: 15/04/2019 10:12:42 AM

ISSUE	DATE	SUBJECT	AUTHORISED
A	15/04/19	FOR COMMENT	ST

PROJECT MANAGER

SERVICES | STRUCTURE & CIVIL

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PROJECT
MERRITTS GONDOLA BOTTOM STATION
THREDBO VILLAGE

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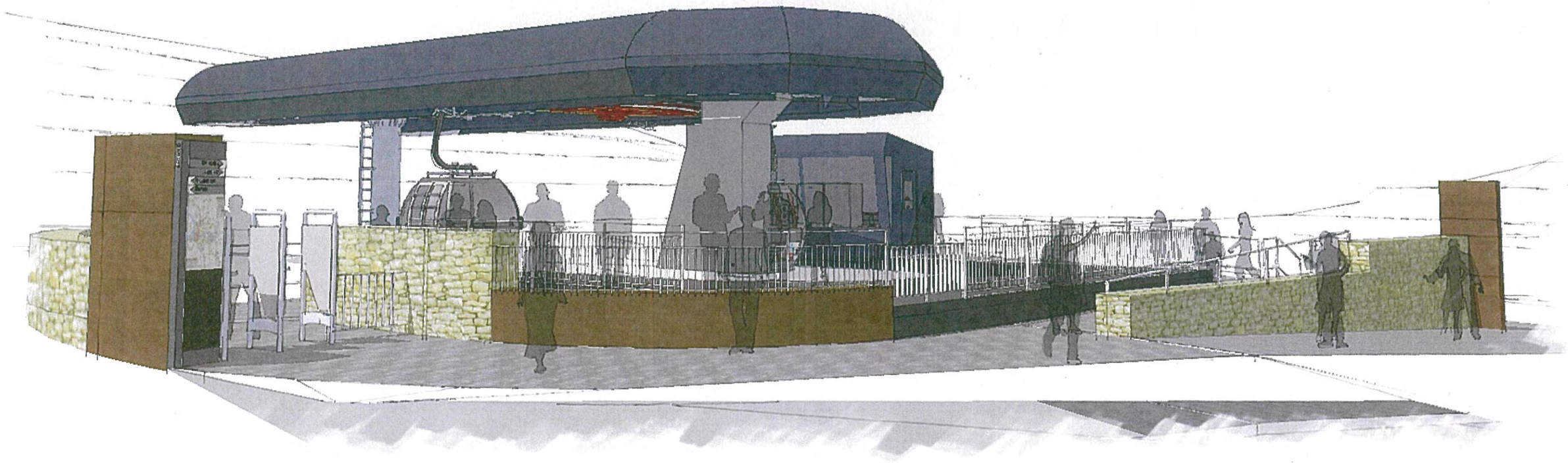
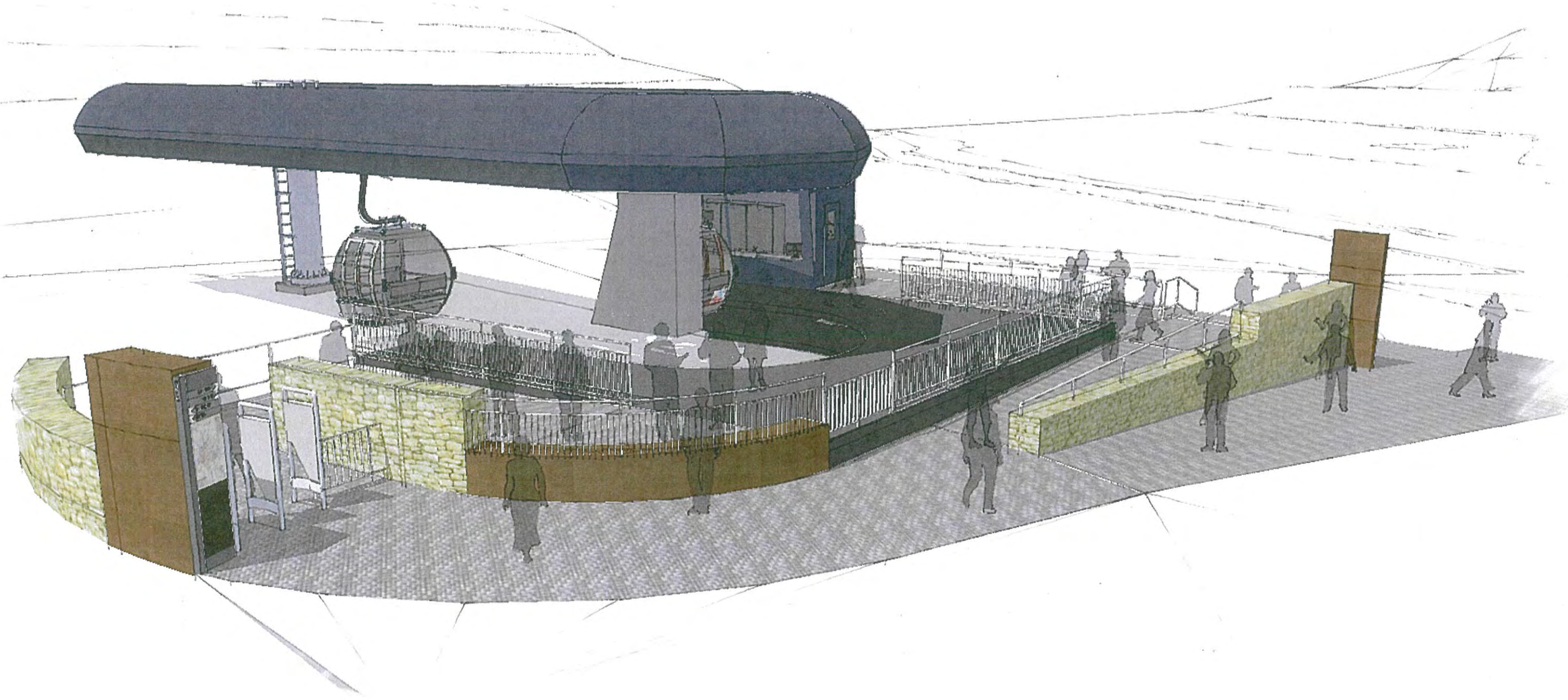
DRAWN	SCALE AT A3	ISSUE DATE
Author	1 : 100	15/04/19

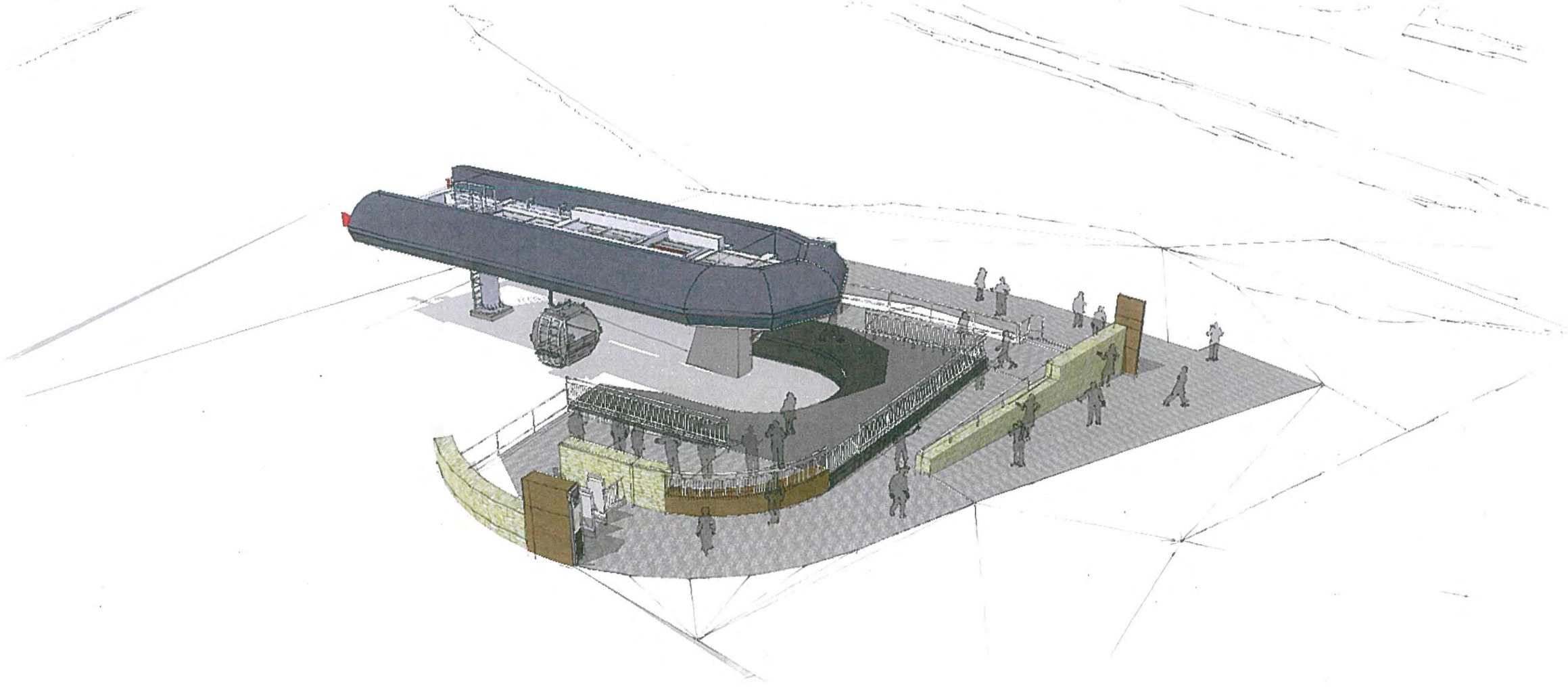
DESCRIPTION
SECTIONS - SHEET 3

PROJECT No	DRAWING No	REVISION
18 421	A2500.3	A




Merritts
Gondola





REVISION HISTORY				
REV	DESCRIPTION	DATE	DRAWN	APPROVED
A	First issue	17-May-2019	Damo	Shaun

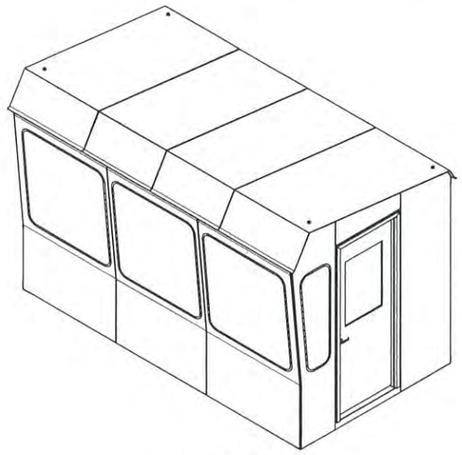
Notes:

1. Outer steel panels are to be glued to the frame weldment using Sikaflex. Preparation, priming and application as per manufacturer specifications.

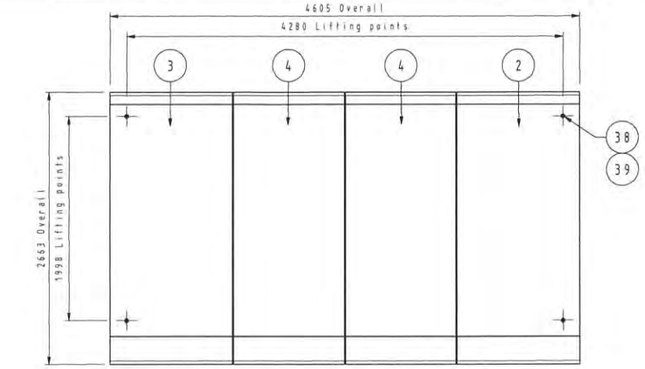
PAINTED FINISH

Clean and degrease all surfaces then sand blast or etch prime bare metal before applying 1 coat of inhibitive (zinc rich) epoxy primer to a minimum dry film thickness of 75µm then 2 coats of 2 pack polyurethane or 2 pack acrylic paint to a minimum dry film thickness of 50µm per coat.

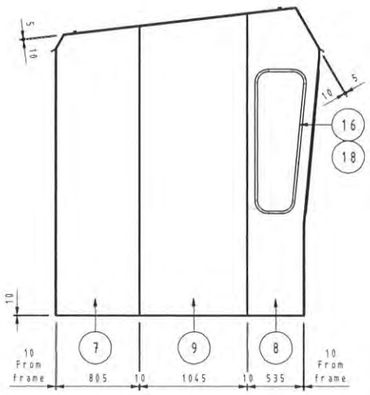
COLOUR: ~~Gloss Black~~ Colorbond Ironstone



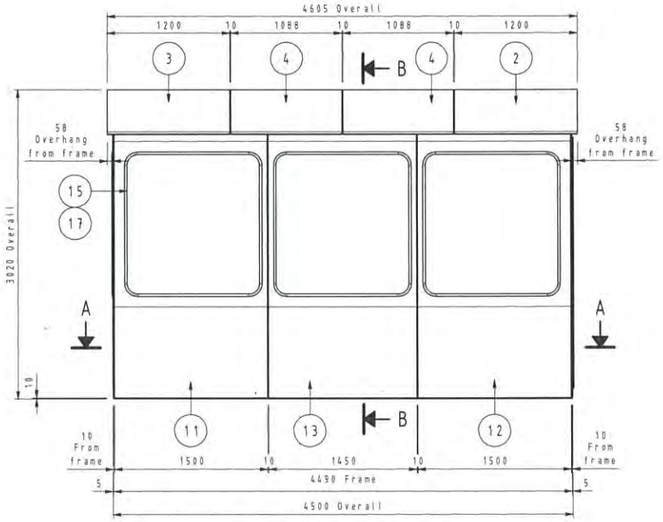
Isometric



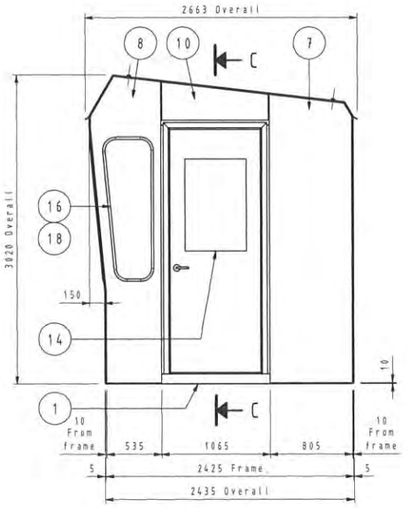
Plan View
Scale 1:30



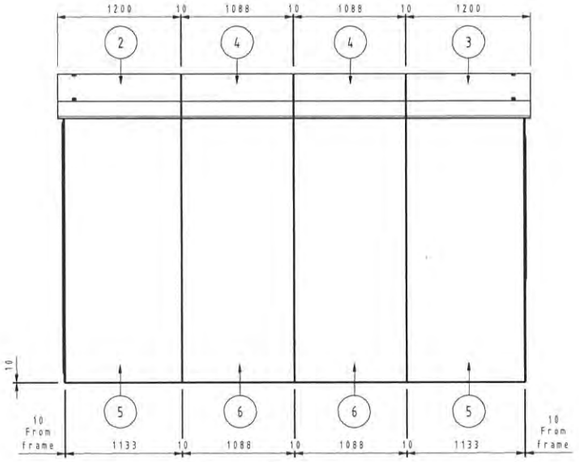
End Elevation
Scale 1:30



Front Elevation
Scale 1:30

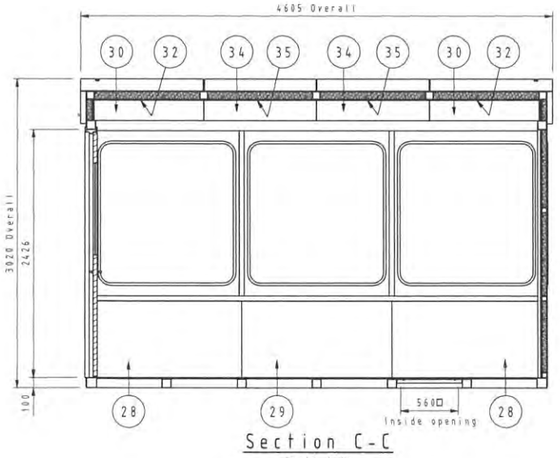


End Elevation
Scale 1:30

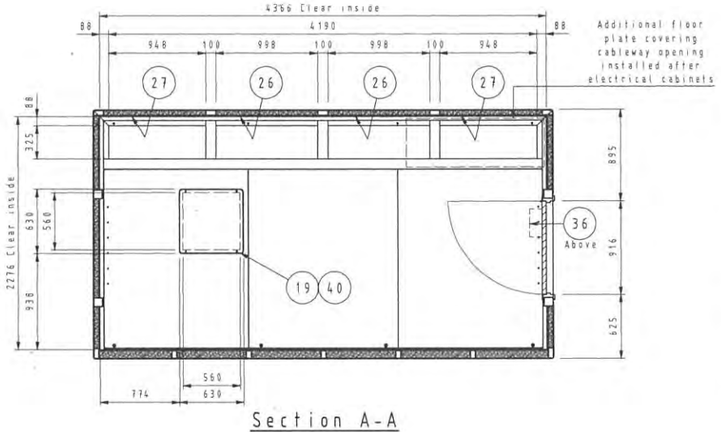


Rear Elevation
Scale 1:30

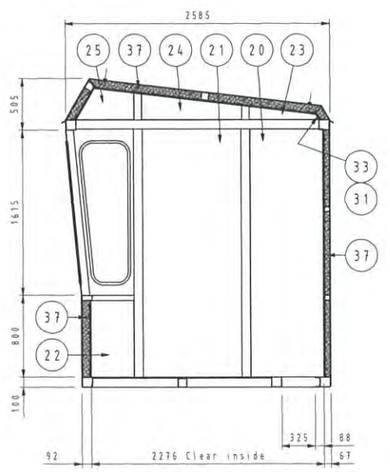
3370.864 kg
TOTAL WEIGHT



Section C-C
Scale 1:30



Section A-A
Scale 1:30



Section B-B
Scale 1:30

ITEM	QTY	PART/DWG No.	DESCRIPTION	MATERIAL/GRADE	WEIGHT (ea)
1	1	2018-07-S-1101	4500 x 2435 Control Room Weldment	Steel, Mild, Welded	1254.937 kg
2	1	2018-07-S-1228	Plate - 3000.0 L x 1200.0 W x 5 mm	Steel, Mild, Grade 250	141.632 kg
3	1	2018-07-S-1251	Plate - 3000.0 L x 1200.0 W x 5 mm	Steel, Mild, Grade 250	141.632 kg
4	2	2018-07-S-1229	Plate - 3000.0 L x 1087.5 W x 5 mm	Steel, Mild, Grade 250	128.389 kg
5	2	2018-07-S-1231	Plate - 2595.0 L x 1132.5 W x 5 mm	Steel, Mild, Grade 250	115.949 kg
6	2	2018-07-S-1232	Plate - 2595.0 L x 1087.5 W x 5 mm	Steel, Mild, Grade 250	110.966 kg
7	2	2018-07-S-1233	Plate - 2016.3 L x 805.0 W x 5 mm	Steel, Mild, Grade 250	87.318 kg
8	2	2018-07-S-1234	Plate - 2016.3 L x 685.0 W x 5 mm	Steel, Mild, Grade 250	65.557 kg
9	1	2018-07-S-1235	Plate - 2988.3 L x 1045.0 W x 5 mm	Steel, Mild, Grade 250	118.061 kg
10	1	2018-07-S-1236	Plate - 1045.0 L x 374.0 W x 5 mm	Steel, Mild, Grade 250	12.834 kg
11	1	2018-07-S-1241	Plate - 2681.3 L x 1500.0 W x 5 mm	Steel, Mild, Grade 250	80.578 kg
12	1	2018-07-S-1242	Plate - 2681.3 L x 1500.0 W x 5 mm	Steel, Mild, Grade 250	80.578 kg
13	1	2018-07-S-1243	Plate - 2681.3 L x 1450.0 W x 5 mm	Steel, Mild, Grade 250	75.472 kg
14	1	2018-07-S-1104	Left Open Door Assembly		77.264 kg
15	3	2018-07-S-1244	Front Window Two Piece Gasket	Rubber	1.454 kg
16	2	2018-07-S-1257	Side Window Two Piece Gasket	Rubber	0.949 kg
17	3	2018-07-S-1258	Front Window Glass Panel	Glass	23.646 kg
18	2	2018-07-S-1259	Side Window Glass Panel	Glass	7.219 kg
19	1	2018-07-S-1270	Plate - 628.8 L x 628.8 W x 5 mm	Steel, Mild, Grade 250	15.864 kg
20	2	2018-07-S-1272	12 mm Melamine - Grey Both Sides	Melamine Veneer Particleboard	16.836 kg
21	1	2018-07-S-1273	12 mm Melamine - Grey Both Sides	Melamine Veneer Particleboard	22.433 kg
22	2	2018-07-S-1274	12 mm Melamine - Grey Both Sides	Melamine Veneer Particleboard	3.037 kg
23	2	2018-07-S-1275	12 mm Melamine - Grey Both Sides	Melamine Veneer Particleboard	0.652 kg
24	2	2018-07-S-1276	12 mm Melamine - Grey Both Sides	Melamine Veneer Particleboard	1.932 kg
25	2	2018-07-S-1277	12 mm Melamine - Grey Both Sides	Melamine Veneer Particleboard	1.386 kg
26	2	2018-07-S-1278	12 mm Melamine - Grey Both Sides	Melamine Veneer Particleboard	25.409 kg
27	2	2018-07-S-1279	12 mm Melamine - Grey Both Sides	Melamine Veneer Particleboard	25.122 kg
28	2	2018-07-S-1280	12 mm Melamine - Grey Both Sides	Melamine Veneer Particleboard	18.427 kg
29	1	2018-07-S-1281	12 mm Melamine - Grey Both Sides	Melamine Veneer Particleboard	10.487 kg
30	2	2018-07-S-1282	12 mm Melamine - Grey Both Sides	Melamine Veneer Particleboard	3.686 kg
31	2	2018-07-S-1286	12 mm Melamine - Grey Both Sides	Melamine Veneer Particleboard	0.648 kg
32	2	2018-07-S-1284	12 mm Melamine - Grey Both Sides	Melamine Veneer Particleboard	22.677 kg
33	2	2018-07-S-1287	12 mm Melamine - Grey Both Sides	Melamine Veneer Particleboard	0.647 kg
34	2	2018-07-S-1283	12 mm Melamine - Grey Both Sides	Melamine Veneer Particleboard	3.726 kg
35	2	2018-07-S-1285	12 mm Melamine - Grey Both Sides	Melamine Veneer Particleboard	22.948 kg
36	1	Hyabi_D-2550	Automatic Door Closer	Generic	0.638 kg
37	1	Pink Batts	Insulation - R1.5	Generic	0.800 kg
38	4	AS 1110_M20x60_8_8_Gal	150 Metric Hex Bolts - Grade 8.8	Steel, Galvanized	0.174 kg
39	4	AS 1237_20_nm_Gal	Plain washers	Steel, Galvanized	0.036 kg
40	4	DIN 7991 - M6x16	Hex socket c/s head cap screws	Steel, Mild, Zinc plated	0.004 kg

PARTS LIST

Drawing Title: Operator Hut - 4500 x 2435 - Left Door General Assembly	Drawn: Damo	Date: 17-May-2019	Scale: Noted
	Checked: Shaun	Date: 17-May-2019	Material: See parts list
	Approved: Shaun	Date: 17-May-2019	Finish: Paint - See note
Project Name: Merritts Gondola	Project No: WAA0004672	Drawing No: 2018-07-S-1001	Sheet: 1 of 1 / Revision: A

File: Z:\Projects\Threebs\Merritts Gondola\Drawings\Structural\2018-07-S-1001.dwg — All dimensions in millimeters. DO NOT SCALE. If in doubt ask

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Customer: Kosciuszko Thredbo

A1