

Hoistway top load SWL (kN) Suspended method		
Material distribution	U1	20
Car rail hoisting and suspension	U2 & U3	20
CWT rail hoisting and suspension	U4 & U5	20
Carframe hoisting	U7	20
Note U2 to U5 act simultaneously. All installation loads have a safety factor of 2. During maintenance U2 & U3 are used. Refer to Detail F - Lifting Eyes.		

Pit loads (kN)		
Car guides	P11	16
Car buffer	P12	60
Counterweight buffer	P13	24
Counterweight guides	P17	12
Note Loads P11/P11 & P17/P17 do act simultaneously; they support the machine and hitch which the equipment is suspended from. Loads P12 and P13 do not act simultaneously.		

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- For hoistway construction and tolerances refer to the general notes page.

Key

CD - Car Depth	HW - Hoistway Width
CH - Car Height	K - Overhead
COP - Car Operating Panel	OP - Opening Width
CW - Car Width	OPH - Opening Height
CWT - Counterweight	R - Rise
DBG - Distance Between Guides	S - Pit
DOP - Door Offset	SO - Structural Opening
E&I - Emergency & Inspection	U - Hoistway Height
HD - Hoistway Depth	WTW- Wall To Wall

Notes

Location Plan

A	06-Oct-2021	Variant A	DM
Rev	Date	Comments	By

OTIS

Project Name oš sAVSKO NASELJE
Project Number G9NA0342/
Site Address Savsko naselje
Ljubljana
1000

Owner
Contractor
Architect KOMUNAPROJEKT d.d.
Consultant

Group Name	Group 2 kuhinja			
Unit Name	Unit 1			
Unit Number	Unit 1			
Unit Type	Atrium			
Duty Load [kg]	630			
Speed [m/s]	1			
Floors [No]	2			
Door Name	PRIMAP TLD			
Counterw. Safety	No			

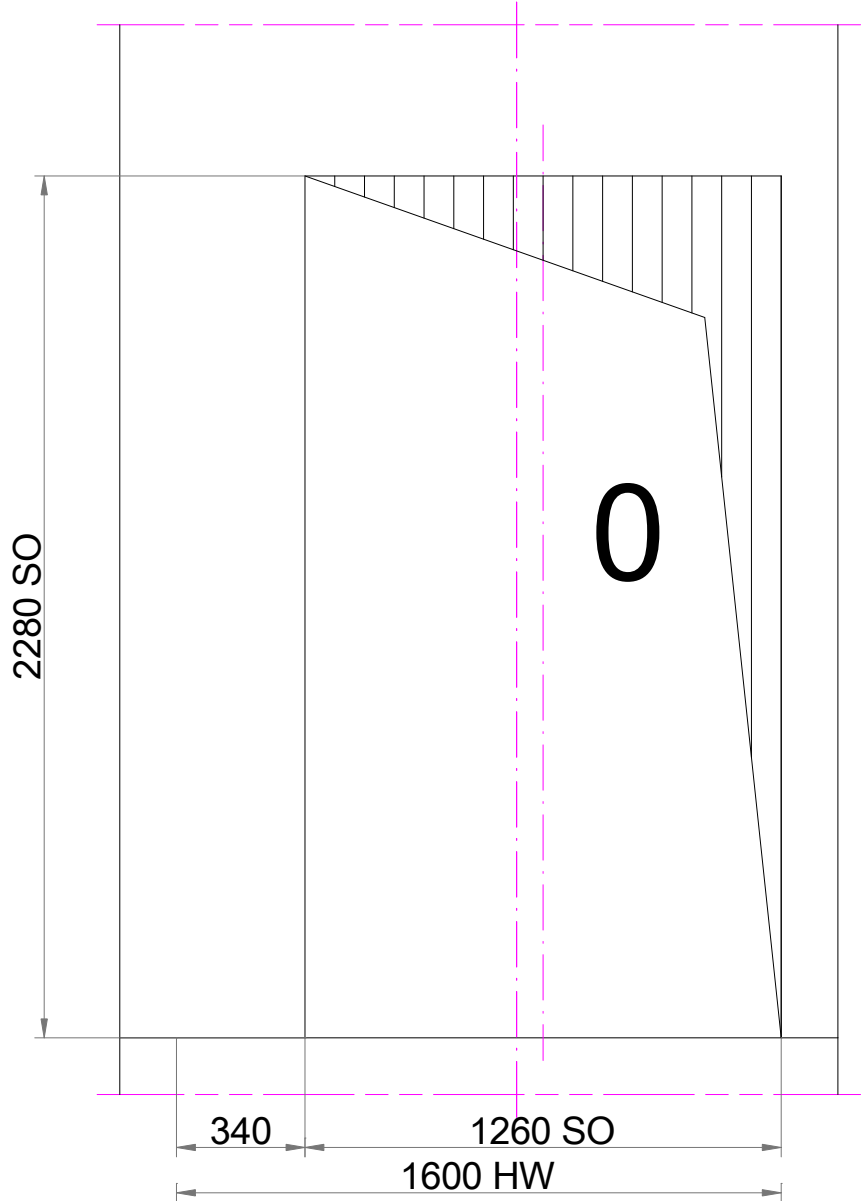
Drawing Purpose

For Information

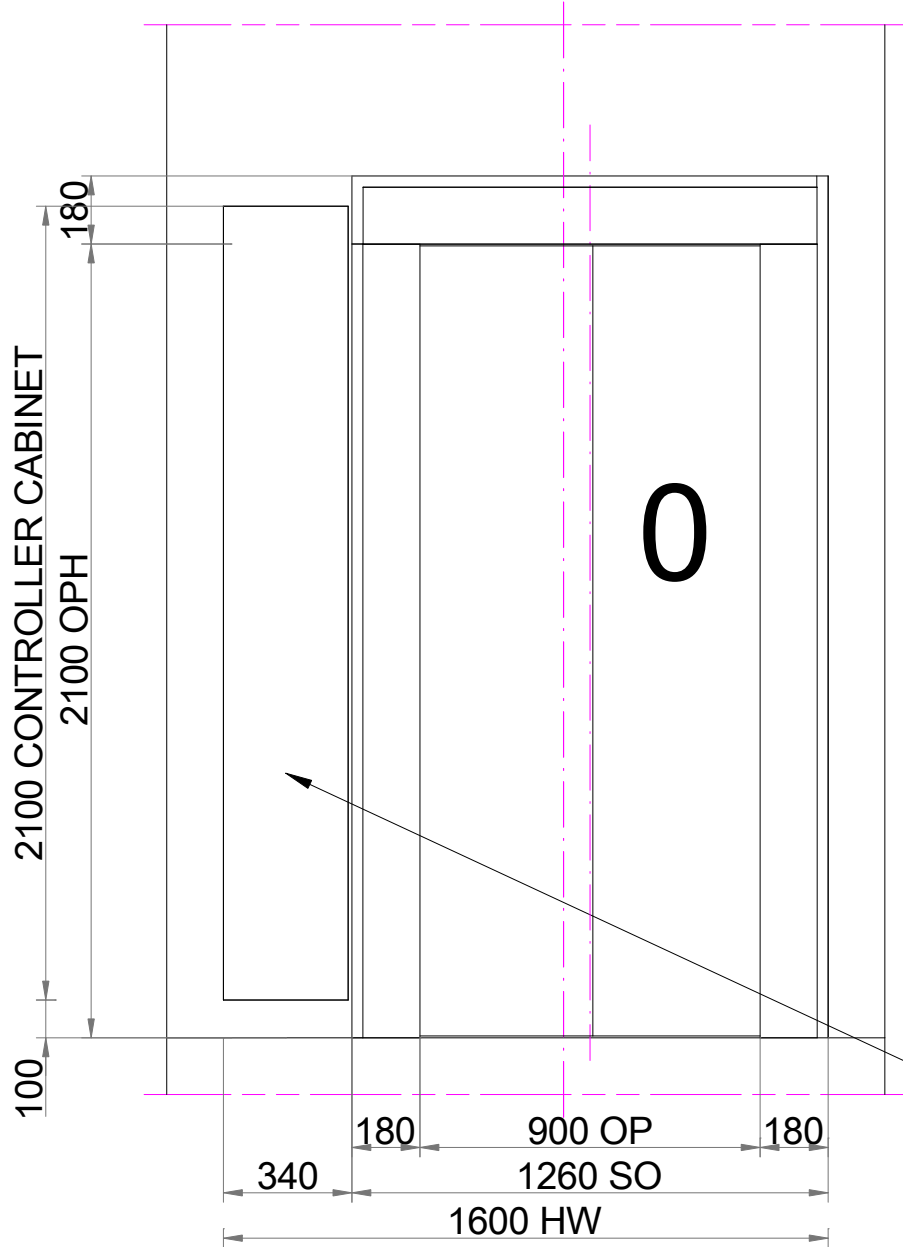
Drawing Title

BUILDERS WORK - ELEVATION & PLAN

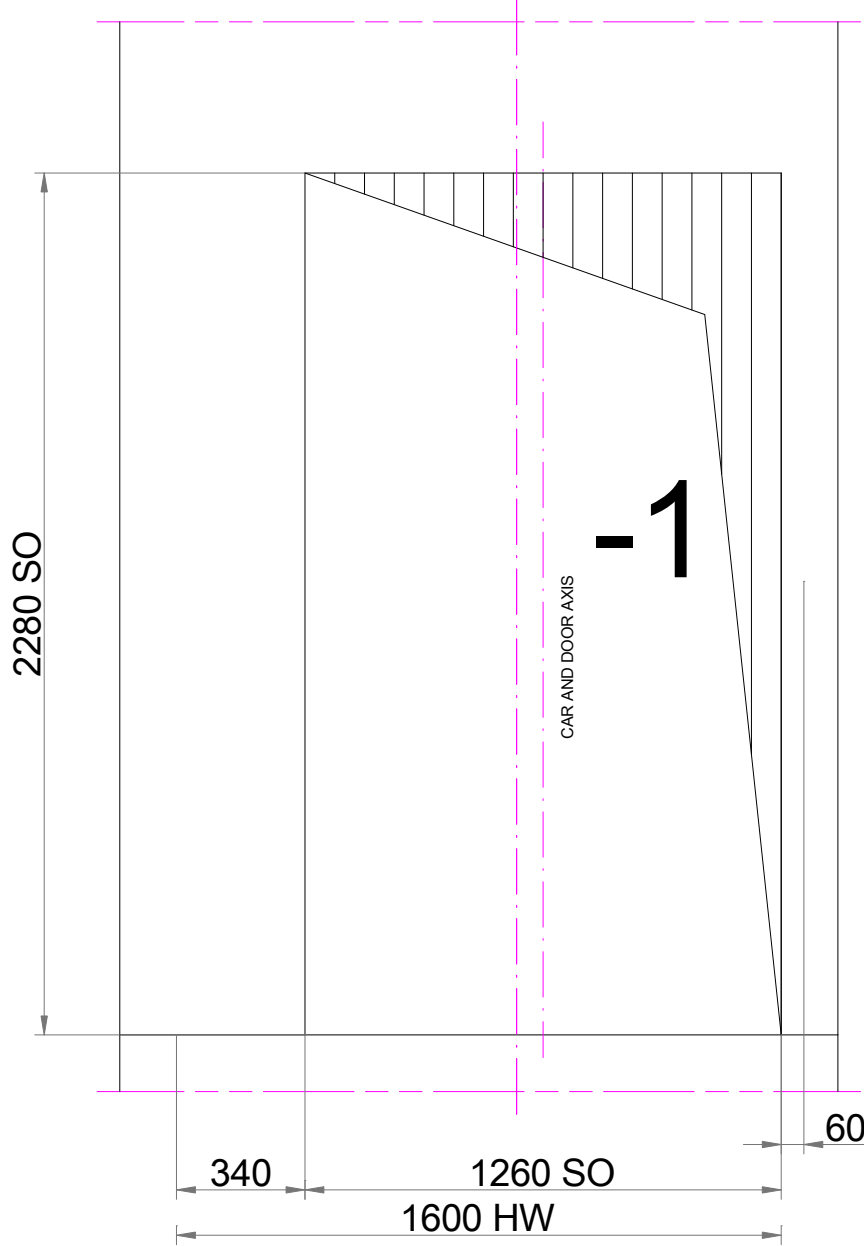
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G9NA0342/01/02-01	A	DM	D. Malovrh
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.			N/A 1 of 6



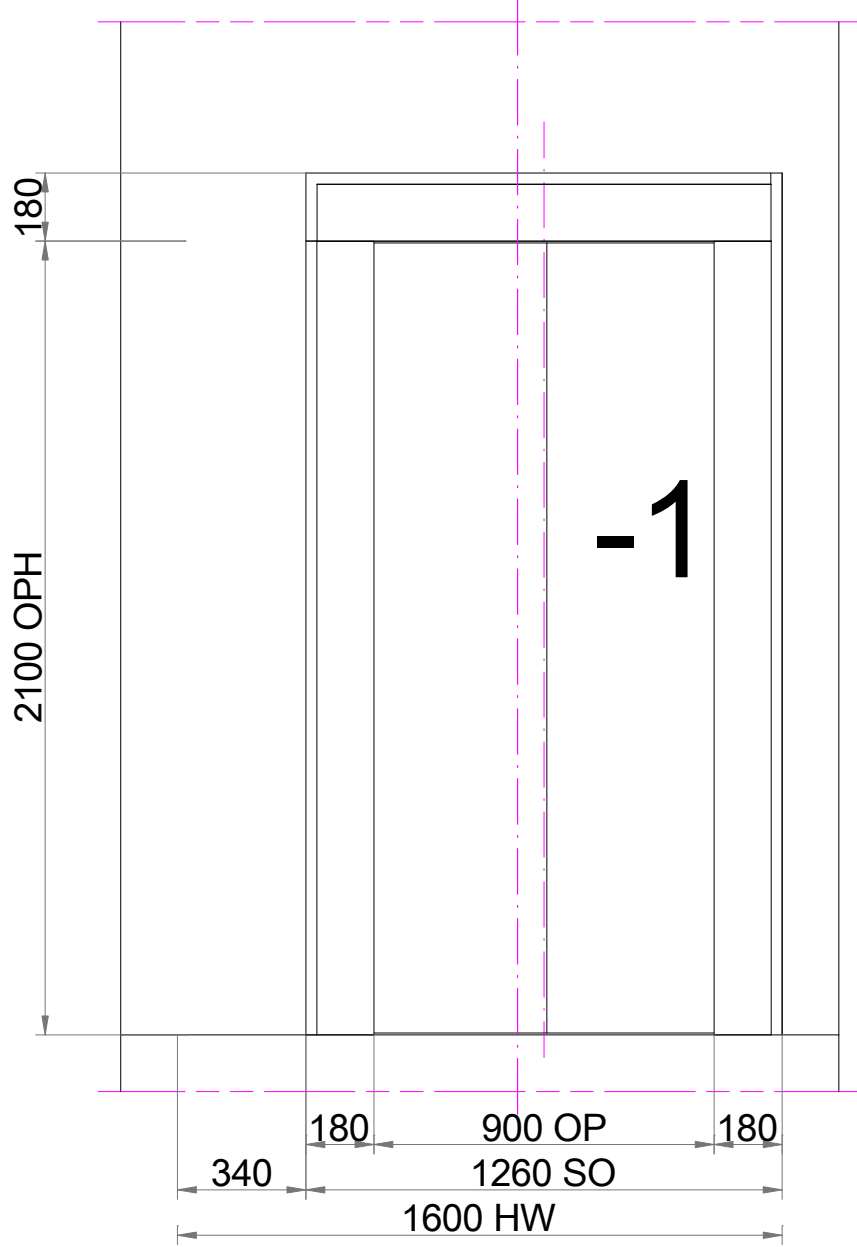
STRUCTURAL OPENING DETAILS
CONTROLLER CABINET FLOOR



LOBBY VIEW
CONTROLLER CABINET FLOOR



STRUCTURAL OPENING DETAILS
MAIN FLOOR



LOBBY VIEW
MAIN FLOOR

Disclaimer

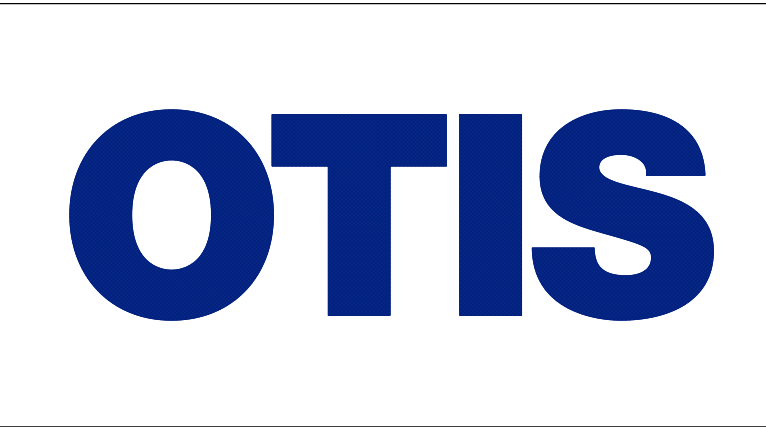
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Counterw. Safety	No			

Drawing Purpose

For Information

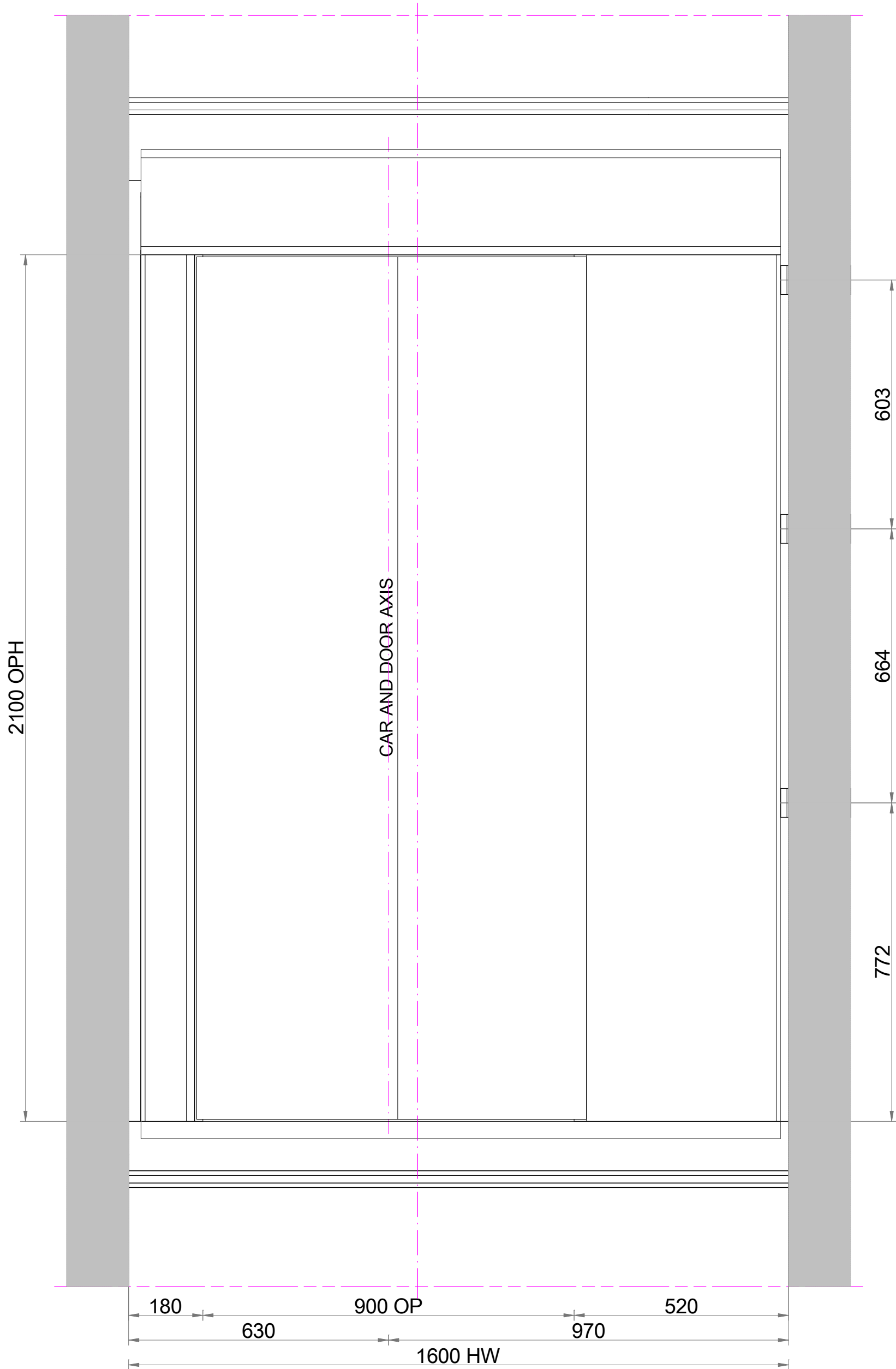
Drawing Title

BUILDERS WORK - ENTRANCES & LOBBY

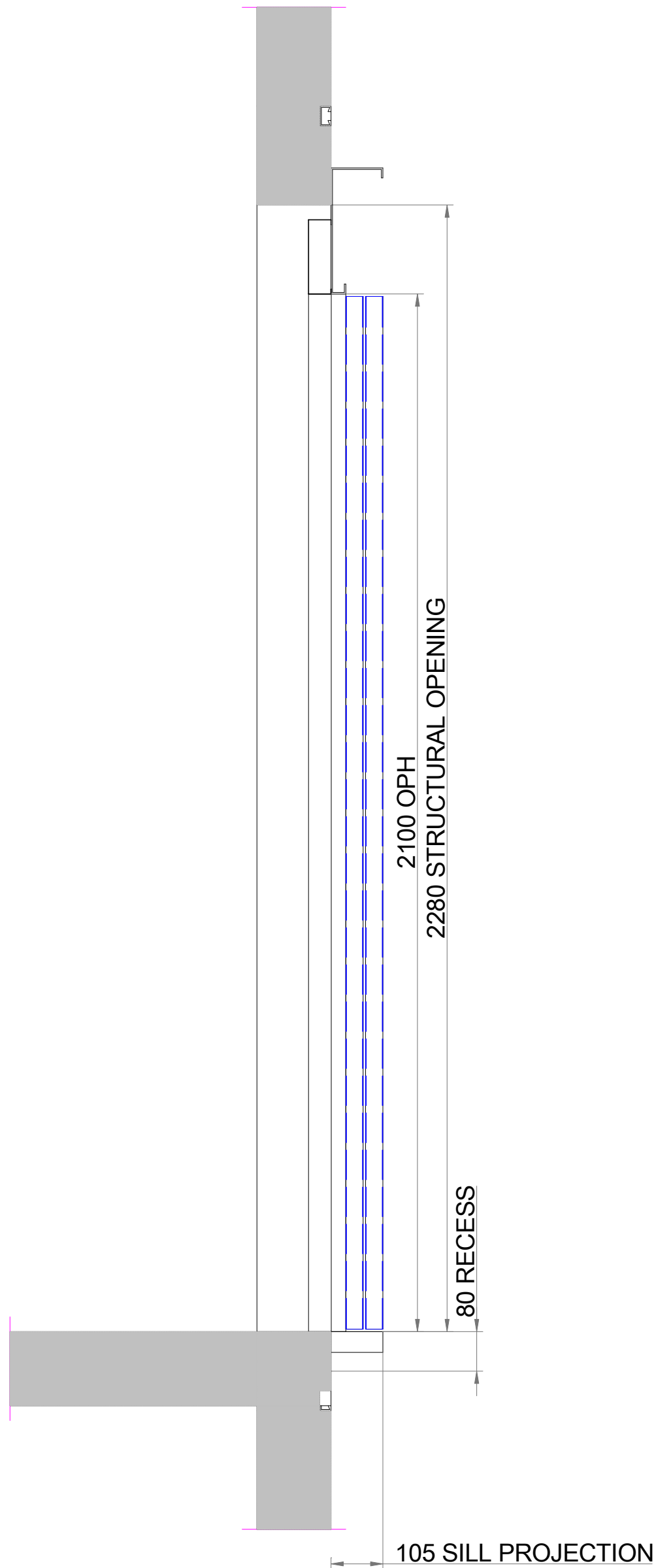
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G9NA0342/01/02-02	A	DM	D. Malovrh

Project Drawing Number	Scale	@A1	Sheet No
.	N/A		2 of 6

Unit Name			Unit 1
Unit Number			Unit 1
OP [mm]			900
OPH [mm]			2100
Weight [kg]			125
Sill Bracket	Fixing	M12	
	Load [kN]	2	
Header Bracket	Fixing	M12	
	Load [kN]	1	
Side Bracket	Fixing	M6	
	Load [kN]	0.5	



LANDING DOOR FIXINGS
VIEW FROM INSIDE THE HOISTWAY



LANDING DOOR FIXINGS
SECTIONAL ELEVATION

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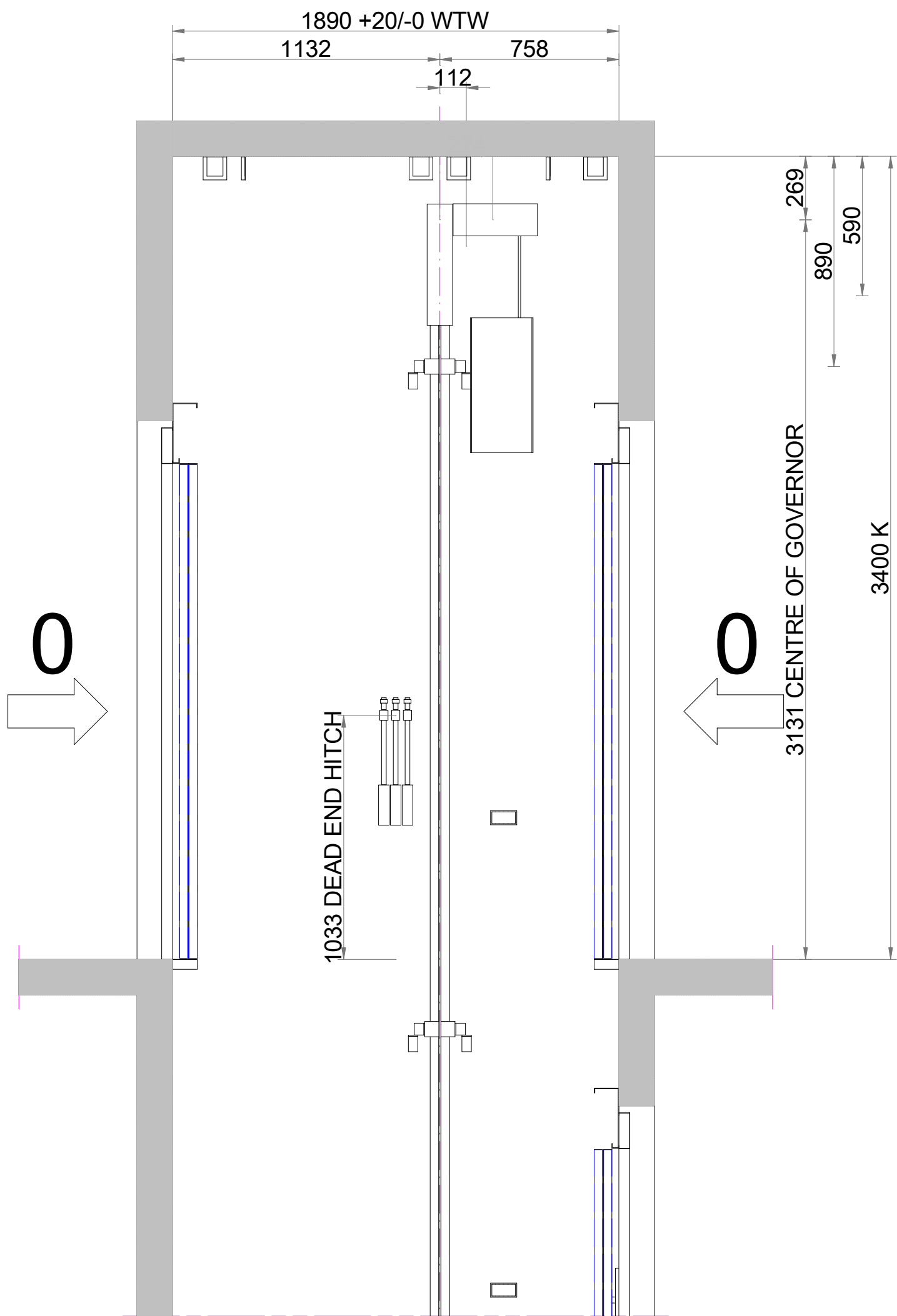
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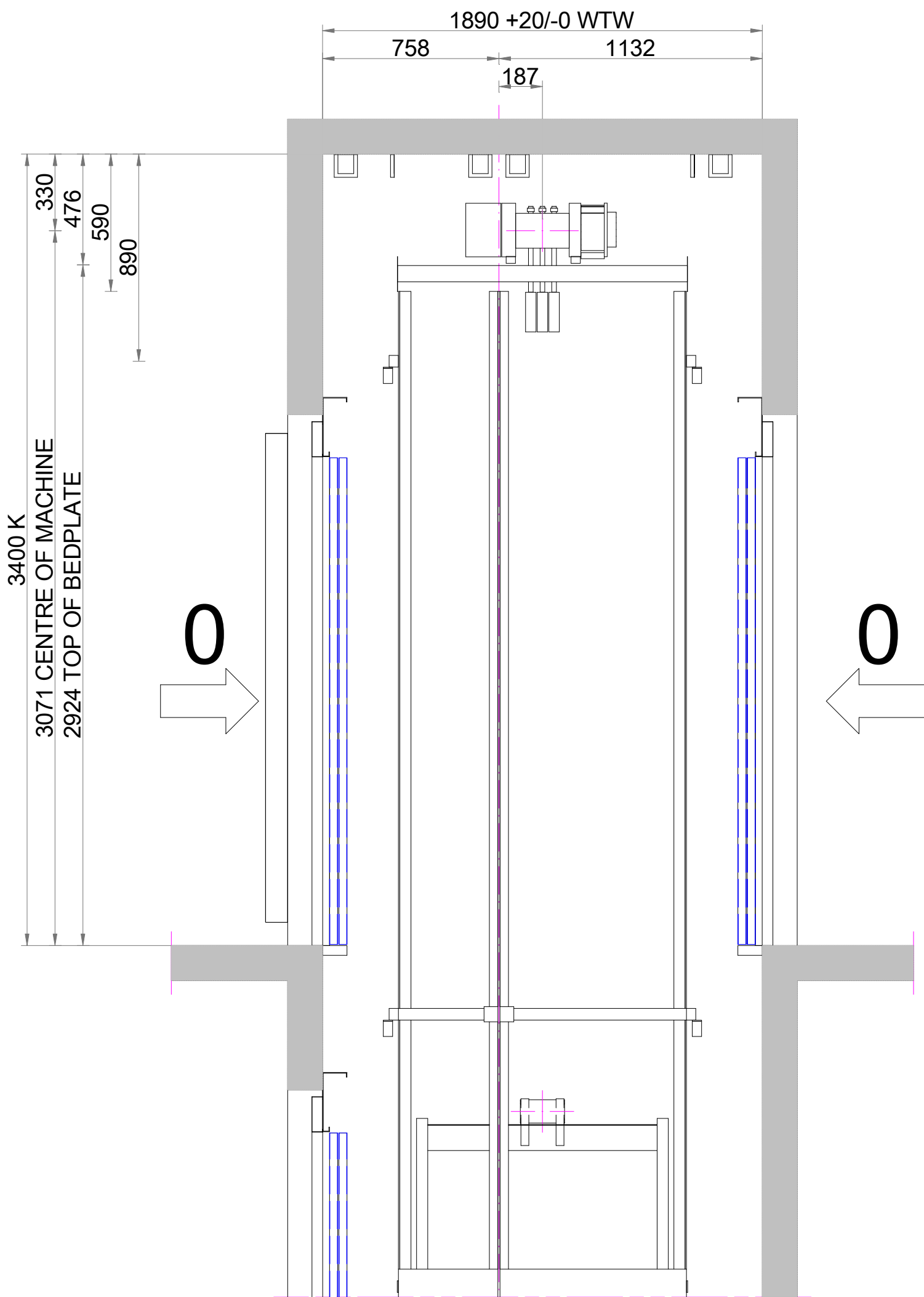
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For Information

Drawing Title
FIXINGS

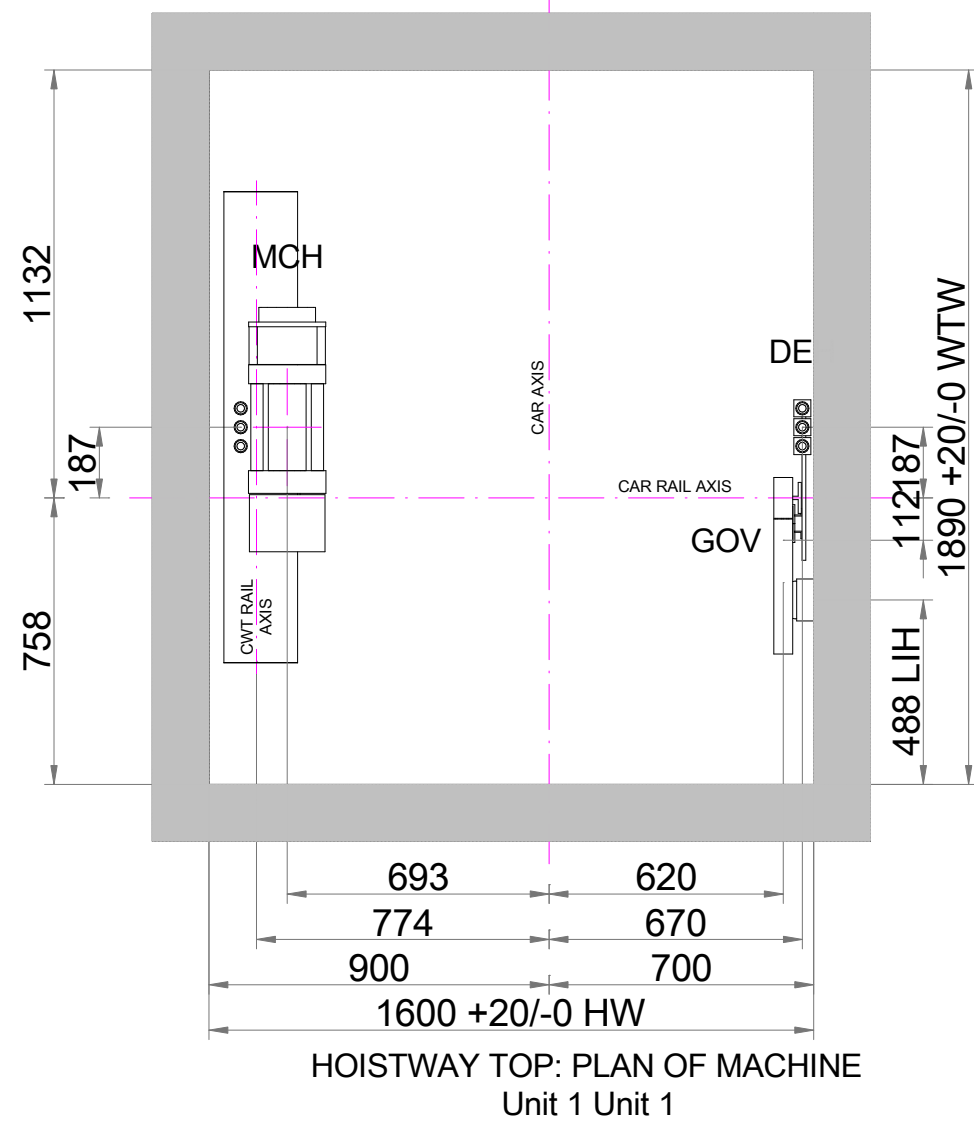
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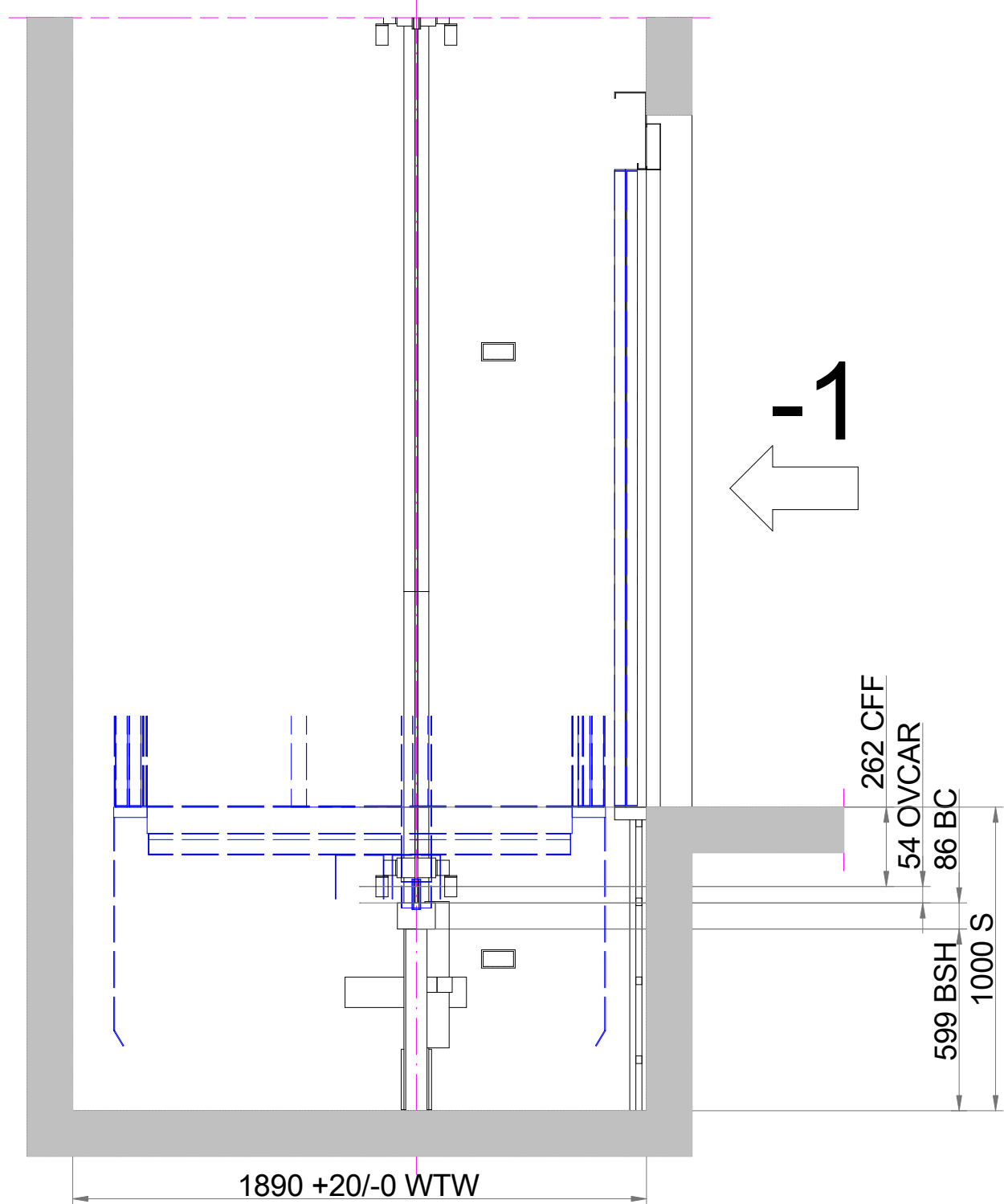
TOP OF HOISTWAY: DEAD END HITCH SIDE
Unit 1 Unit 1



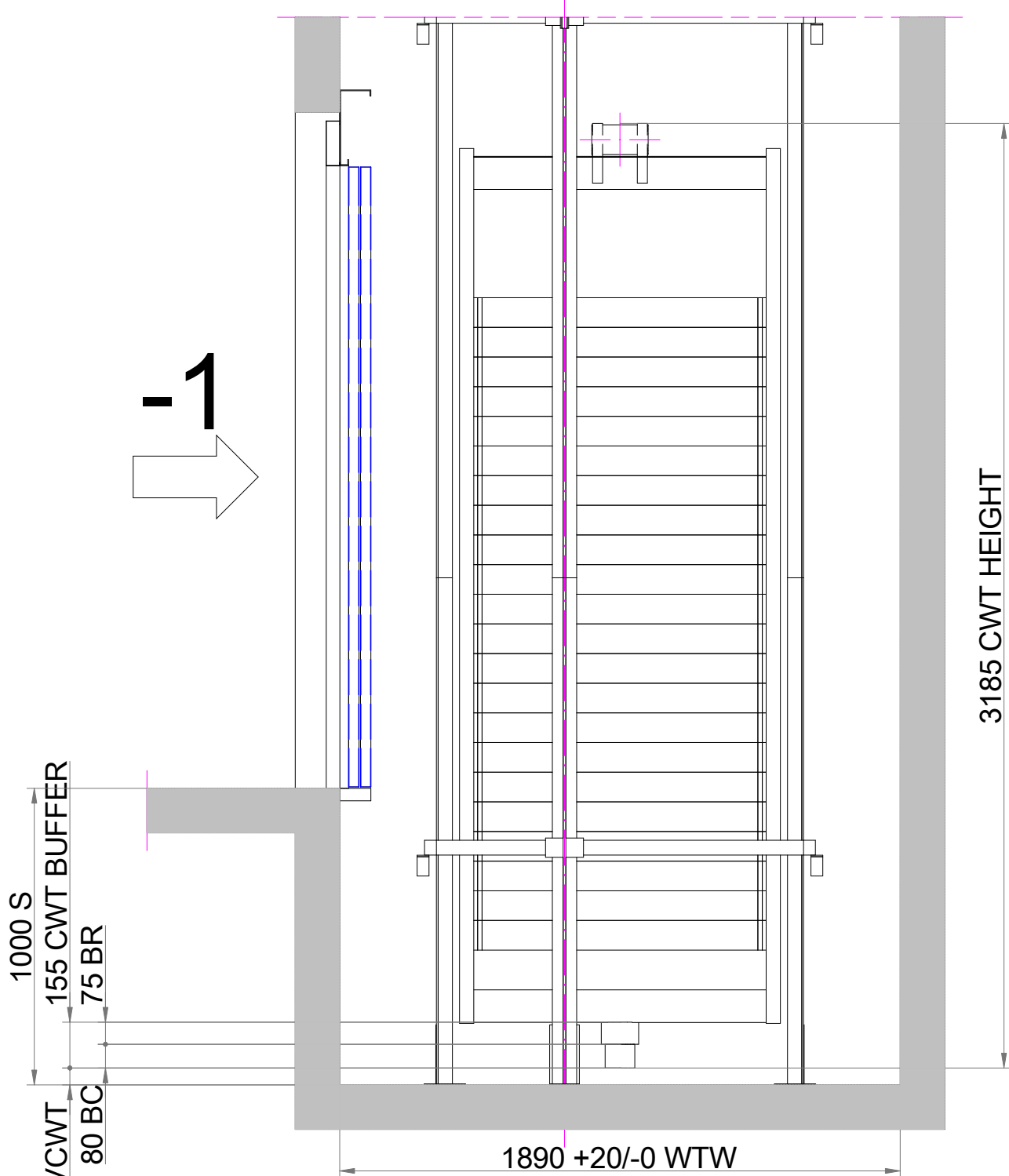
TOP OF HOISTWAY: MACHINE & COUNTERWEIGHT SIDE
Unit 1 Unit 1



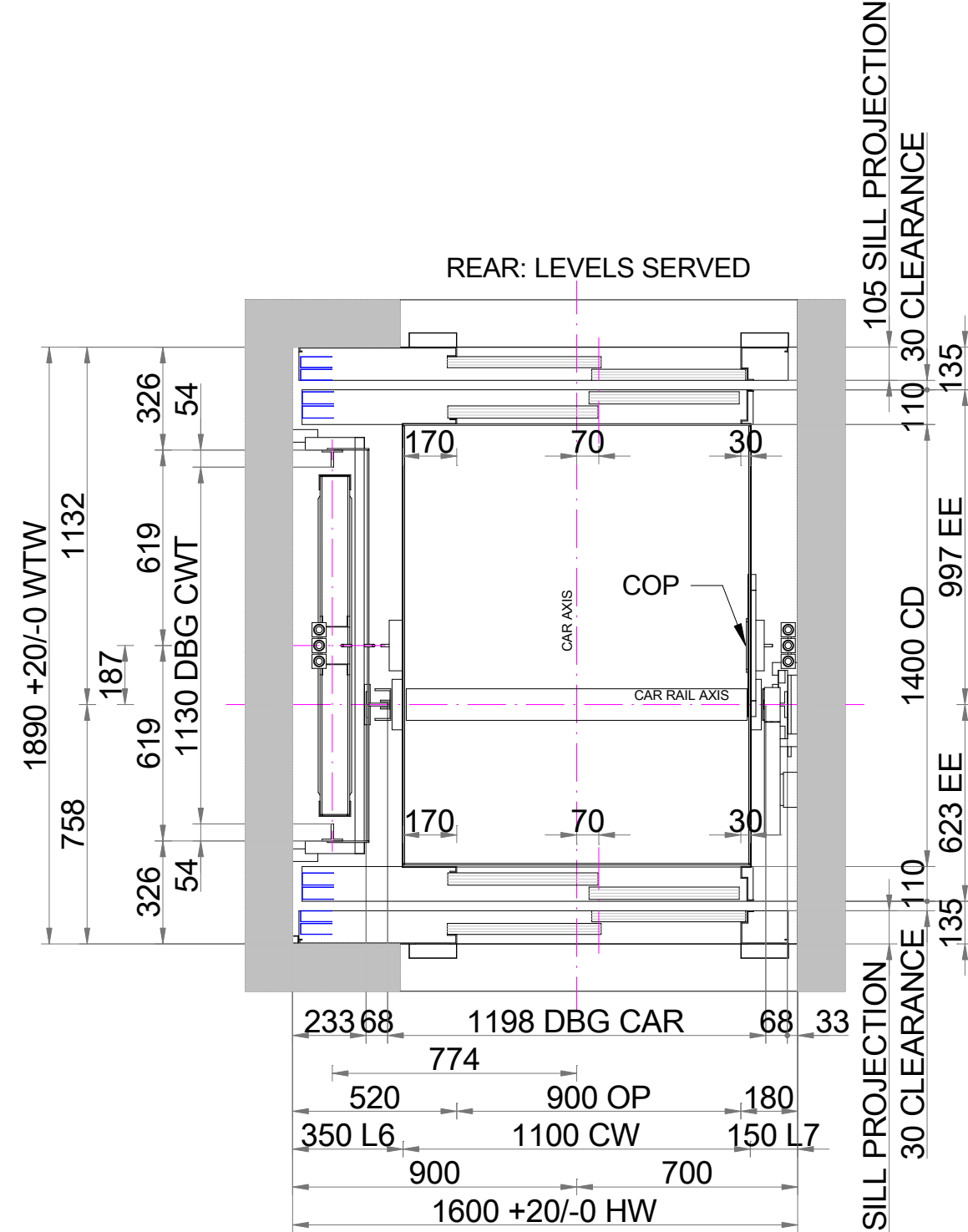
HOISTWAY TOP: PLAN OF MACHINE
Unit 1 Unit 1



HOISTWAY PIT: DEAD END HITCH SIDE
Unit 1 Unit 1



HOISTWAY PIT: MACHINE & COUNTERWEIGHT SIDE
Unit 1 Unit 1



FRONT: LEVELS SERVED
HOISTWAY: PLAN OF CAR
Unit 1 Unit 1

- Key to views of hoistway top and pit
- BC - Buffer Compression
 - BR - Remaining height of buffer at full compression
 - CFF - Distance between car floor and underside of car frame
 - D&C - Drive and Controller
 - DEH - Dead End Hitch
 - GOV - Governor
 - LIH - Light In Hoistway
 - MCH - Machine and Counterweight
 - OVCAR - Car Overrun, clearance between the car and the buffer
 - OVCWT - Counterweight Overrun, clearance between the counterweight buffer and the pit floor
 - PCS - Pit Control Station
 - PES - Pit Emergency Switch
 - HW - Hoistway Width
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Location Plan

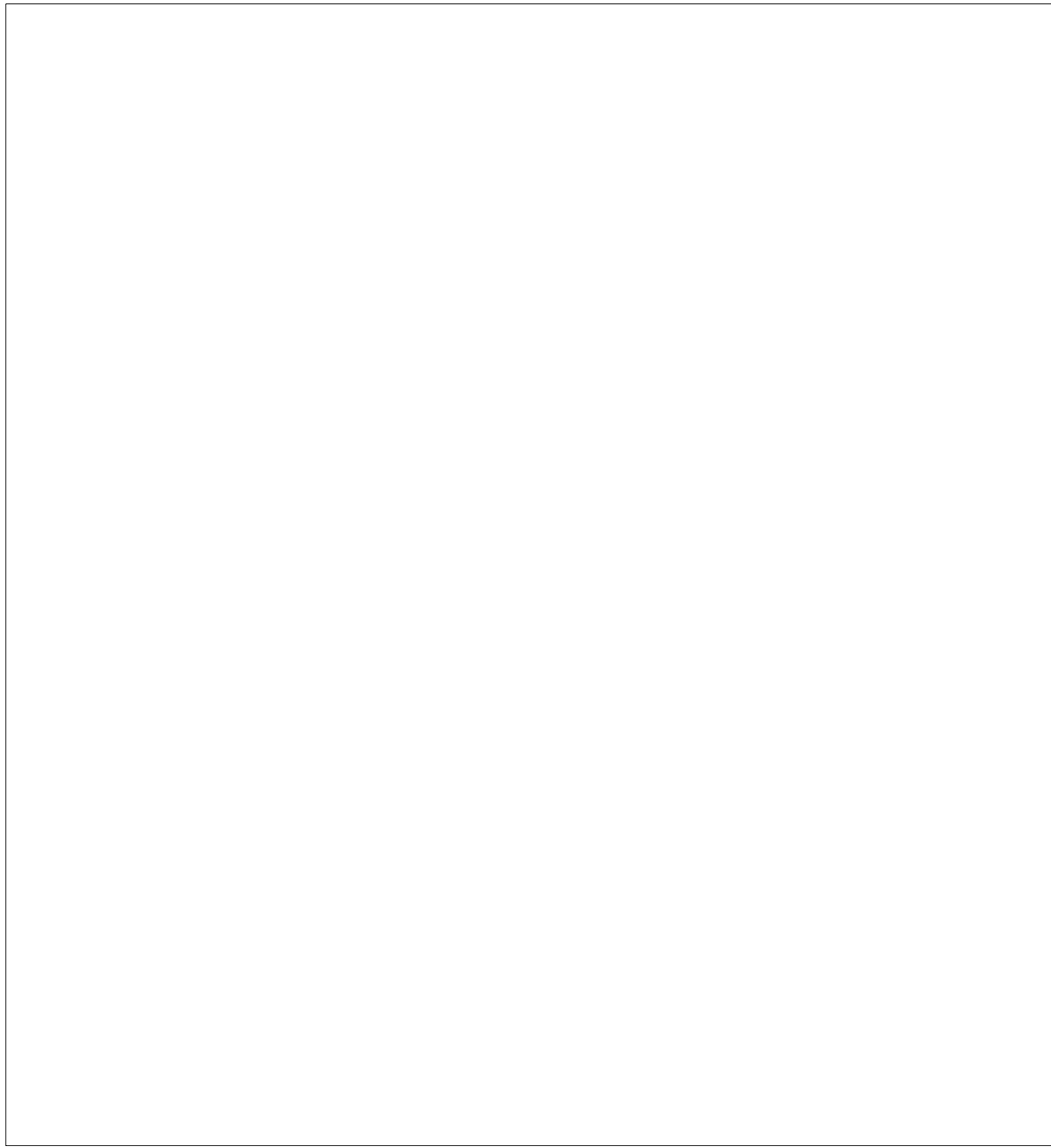
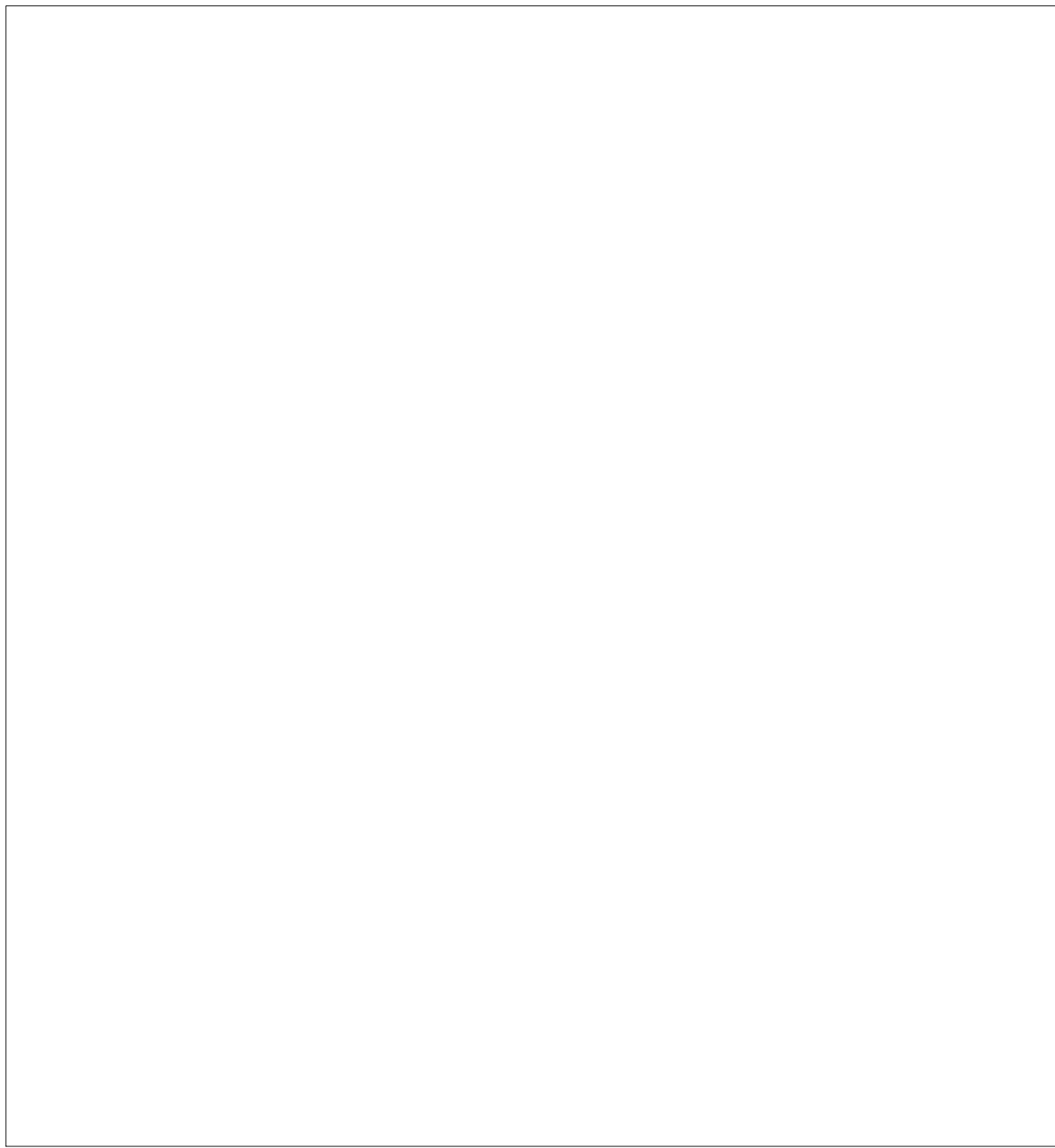
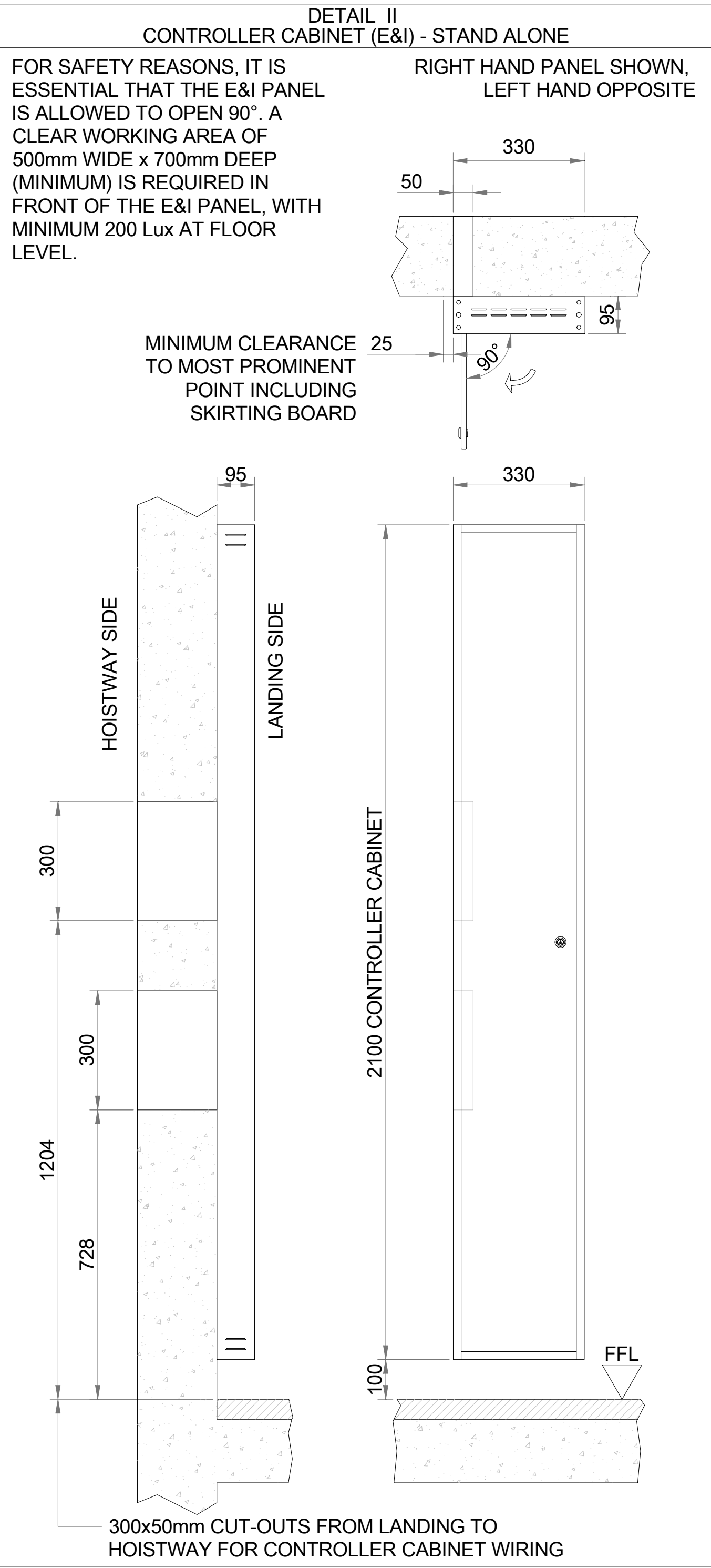
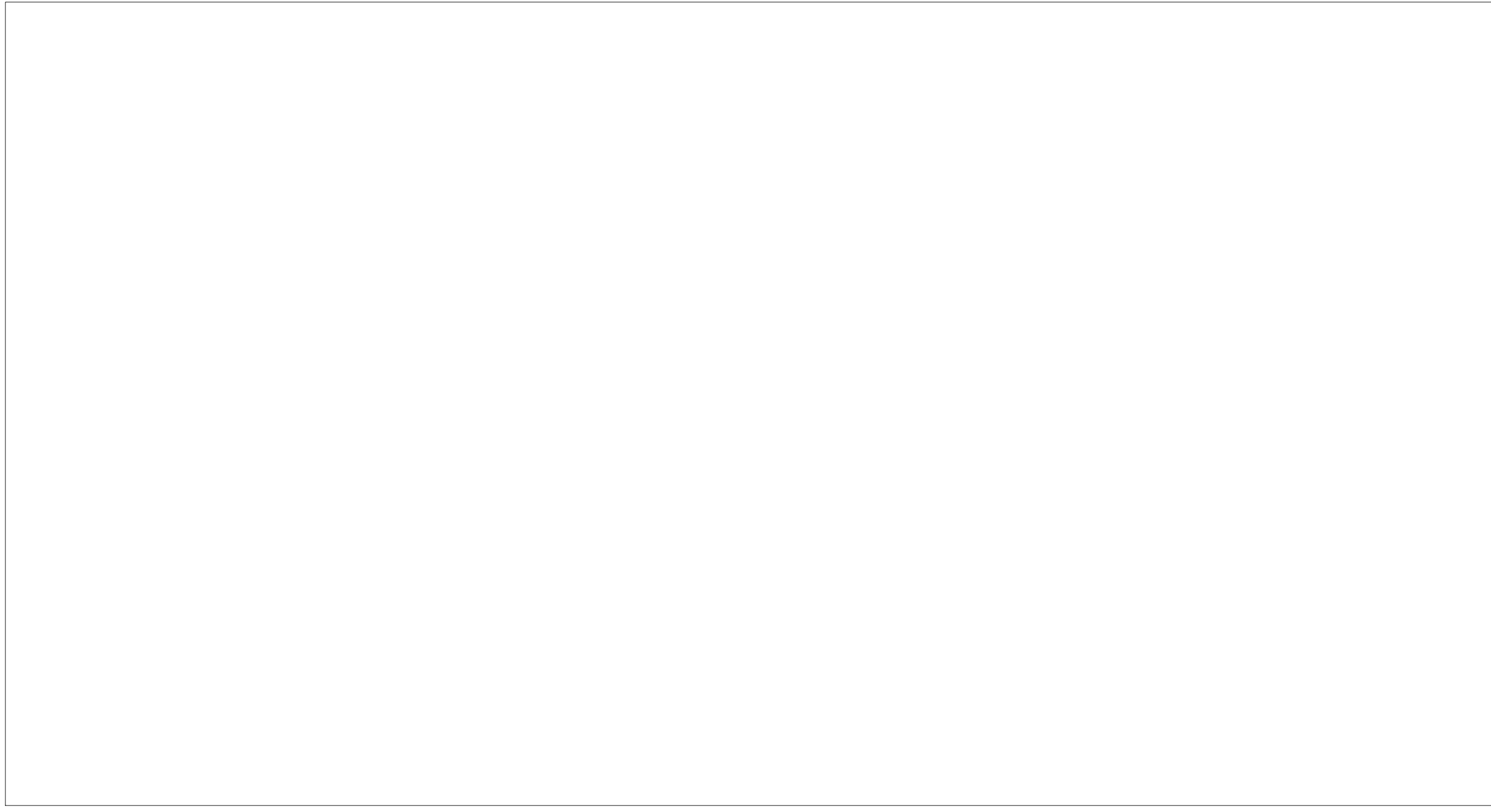
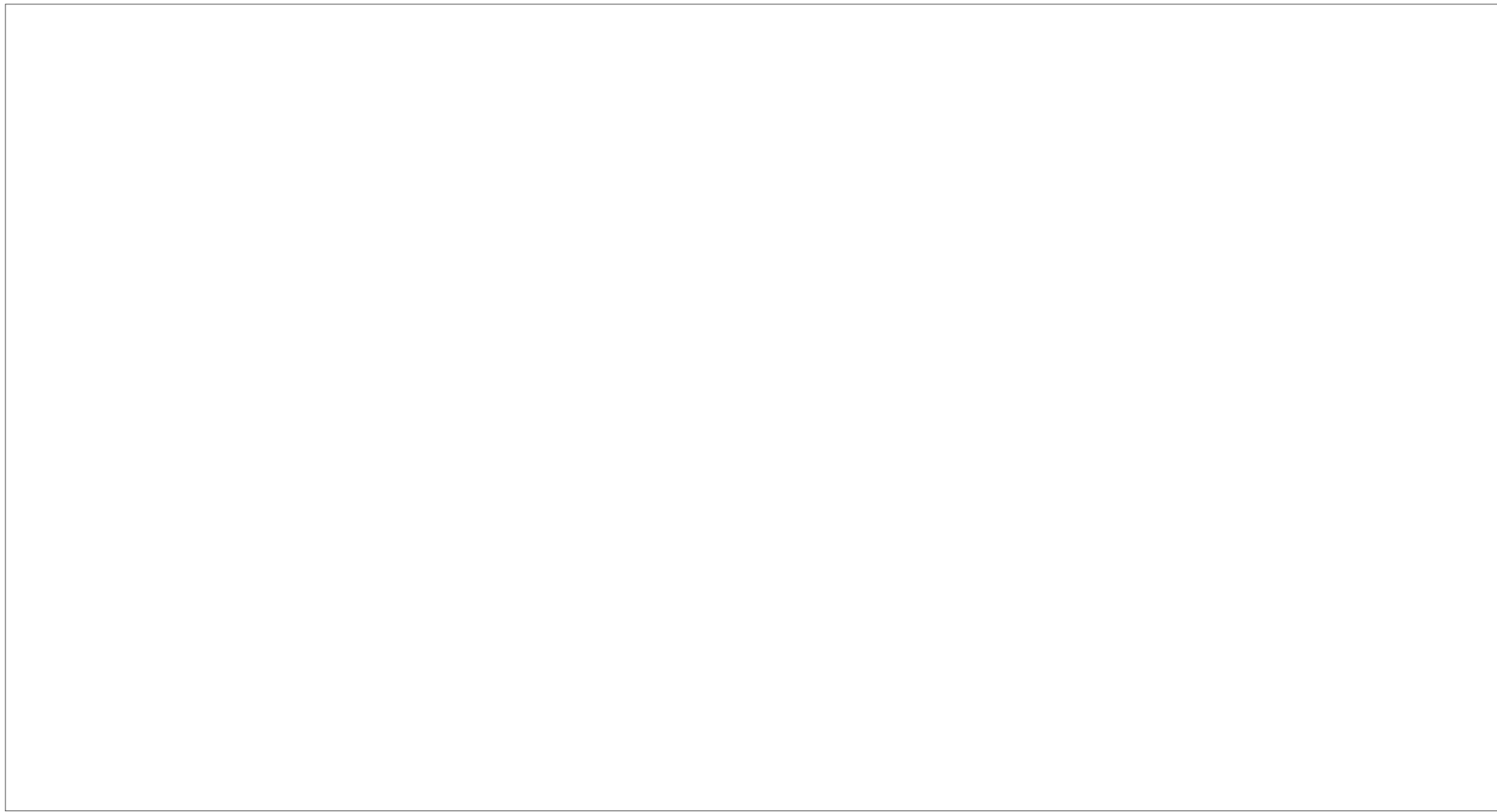
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Door Name	PRIMAP			
Counterw. Safety	No			

Drawing Purpose			
For Information			
Installation Details			
Otis Drawing Number	Rev	Drawn	Checked
G9NA0342/01/02-04	A	DM	D. Malovrh
Project Drawing Number	Scale @A1		Sheet No
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Drawing Purpose

For Information

Drawing Title

DETAILS

Otis Drawing Number	Rev	Drawn	Checked
G9NA0342/01/02-05	A	DM	D. Malovrh
Project Drawing Number			Scale @A1Sheet No
.			N/A 5 of 6

1	General and Safety Requirements "By Others"
1.1	Lighting of the landings in the vicinity of landing doors shall be at least 50 lux at floor level.
1.2	A dry, locked and protected storage space is to be provided adjacent to the lift hoistway.
1.3	Building regulation Part B and lift regulation 1997 do not permit a lift to open directly into an apartment. It must be possible to access lift landing doors at all times from the landing side without passing through private premises. Required for fire and other emergency situations.
1.4	Procedure for safe site access to be confirmed with local Otis office.
1.5	There shall be provided safety holes for work in hoistway on top floor and lower floors to ensure less than 20m between. Anchorage point on landing - anchor points for safety harness for work on landing (by Otis). (Detail E - Working at height regulations 2005.)
1.6	Landing entrance protection - suitable landing entrance protection with minimum requirements as shown (Detail G - Landing entrance protection) until Otis have completed the installation of all landing doors. The protection must be able to withstand a load of 90kg applied from the landing.
1.7	Landing call buttons should be at least 500mm (preferably 700mm) from the corner of any adjacent wall in accordance with EN81-70 (Detail H).
2	Electrical Note and Requirements "By Others"
2.1	A permanent electrical power supply must be provided at the start of the installation or as otherwise specified in the contract (required for the installation).
2.2	Electrical supply cable installed, phased, tested and terminated in a lockable rotary 6 pole unfused isolator Eaton T5B-3-8342/14/SVB. The supply shall have the capacity for the load detailed in Table 1 - General Unit Data. All supply cables should be calculated in accordance with BS7671.
2.3	When EAR 3 (Emergency automatic return with door opening) has been supplied with this unit, then this must be connected via a separate pole in the isolator, to ensure this feature is disabled when the lift power supply is removed via operation of the isolator.
2.4	The maximum volt drop permitted on the supply cable (from the origin of the supply), due to the lift starting current given in Table 1 - General Unit Data must not exceed 2.5% of nominal voltage measured at the lockable non fused isolator.
2.5	The supply cable shall enter the lift hoistway at the top (Detail D - Top Floor). The supply cable to the isolator shall be provided with 2m of spare cable, to enable it to be relocated within the lift hoistway when the lift is installed. The isolator shall be temporarily installed on a steel back plate.
2.6	A temporary 110vAC power supply and lighting for use during the installation at top of hoistway next to main isolator.
2.7	Otis will provide single and 3-phase protection within the lift control equipment as stated in Table 1 - General Unit Data. This will provide overload protection of the equipment and supply. Otis will derive the single phase load from the 3-phase supply. The 3-phase supply cable shall be suitable to carry the currents stated in Table 1 - General Unit Data. Suitable short circuit protection of the supply cable shall be provided. This protection shall provide suitable discrimination from the Otis overload protection device. Otis will provide and install permanent hoistway lighting and pit socket in accordance with the requirements of EN81-20.
2.8	Otis Remote Elevator Monitoring (REM) system gives a remote alarm system in accordance with EN 81-28, ensuring a two-way voice communication allowing permanent contact with a rescue service (by Otis).
2.9	Communication, see Table 1 - General Unit Data. <div>2.9.1OPTION 1 - GSM.<div>There shall be provided, a 25mm hole at the top of the lift hoistway for the GSM antenna (to outside of building or into roof space), to achieve a GSM signal strength of -85dbm (max) or better and suitable containment for the antenna location.</div>2.9.2OPTION 2 - Landline.<div>BT Landline Solution to be agreed with Otis representative before installation if used. There shall be provided an analogue telephone line installed, tested and terminated in a standard BT socket. This telephone cable shall enter the lift hoistway at the top floor below the landing control panel. It shall have a free length of 2m to enable suitable position.</div></div>
2.10	Fire alarm signal (normally closed) to be next to isolator (Detail D - Top Floor) with 5m spare cable.
3	Building and Hoistway Requirements "By Others"

- 3.1Equipment is designed for internal application only. No direct exposure to the elements. Hoistway needs to be watertight and weatherproof. The ambient temperature in the hoistway and the machinery space(s) is to be maintained between + 5°C and + 40°C.
- 3.2Construction of hoistway including the entrance side walls - The lift hoistway is to be built from following minimum requirements and must be able to withstand the applied loads as shown on drawings and in Table 1 - General Unit Data. Either:

3.2.1140mm thick c35 reinforced concrete.

3.2.2140mm thick high density non-aeriated blocks with a minimum strength of 10N/mm².
- 3.3Tolerances shown on layouts are of highest importance. Note that the clear plumb hoistway is the key dimension for a lift installation. All landing doors will be installed from a plumb line spanning the full hoistway length. Any work related to non-conforming tolerances is "by others". Typical such work is but not limited to: fascia's, post-cut concrete, additional secondary steel work.
- 3.4Deflection at guide fixings: It is imperative that the structural integrity of the building fabric in the location of each guide rail bracket is restricted to a maximum overall deflection of 2mm under the live loads applied by the lift equipment - see Table 1 - General Unit Data and Detail A - Guide bracket pull and shear.
- 3.5The reaction shown in Table 1 - General Unit Data. Values T and N acts on each guide rail bracket fixing bolt:

2 fixing bolts on the single guide rail bracket. 4 fixing bolts on the combined / counterweight guide support bracket (2 either side)
- 3.6Distance between SSL and FFL

If the distance between SSL and FFL is greater than allowed, upstand will be required at the landing to ensure safe mounting of door sill. See Detail B - Sill section.
- 3.7Establish a permanent datum line on the inside of the lift hoistway at all levels from which the lift engineer can establish the finished floor levels.
- 3.8Establish a permanent gridline on the hoistway pit floor.
- 3.9Grout in all frames and sills to Otis engineer's requirements and finish floor up to door sills.
- 3.10The structural opening at access floor is to be the full width and height to underside of entrance lintel and return walls are to be built following installation of the car platform.
- 3.11Drill and Fix - Hilti type anchors: hsa x 100mm long (by Otis).
- 3.12Blockwork - if blockwork is to be used the distance from edge of the block fixing point should be minimum 100mm.
- 3.13Pit fixation - needs to withstand the shown loads. Needs to be minimum 150mm thick reinforced concrete mat, pre-casted plates or pre-casted anchor channels for fixing bolts.
- 3.14All holes penetrations and cut-outs.

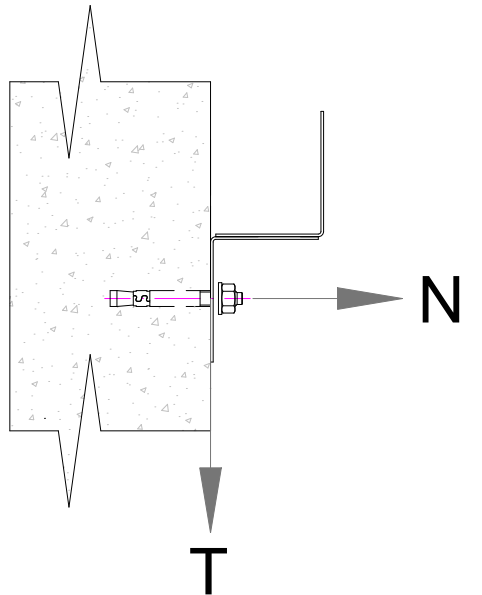
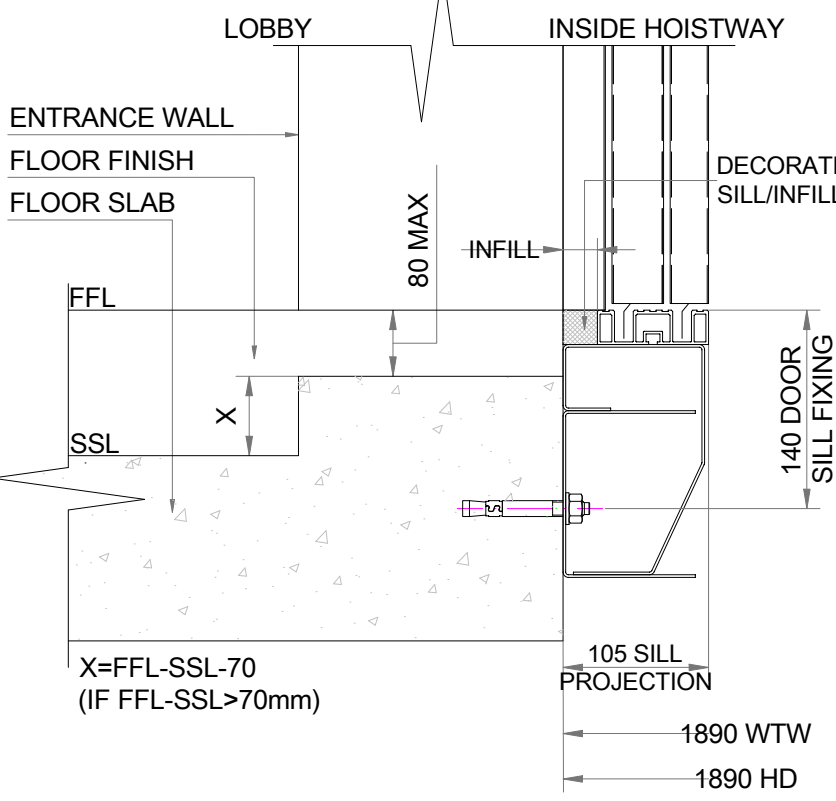
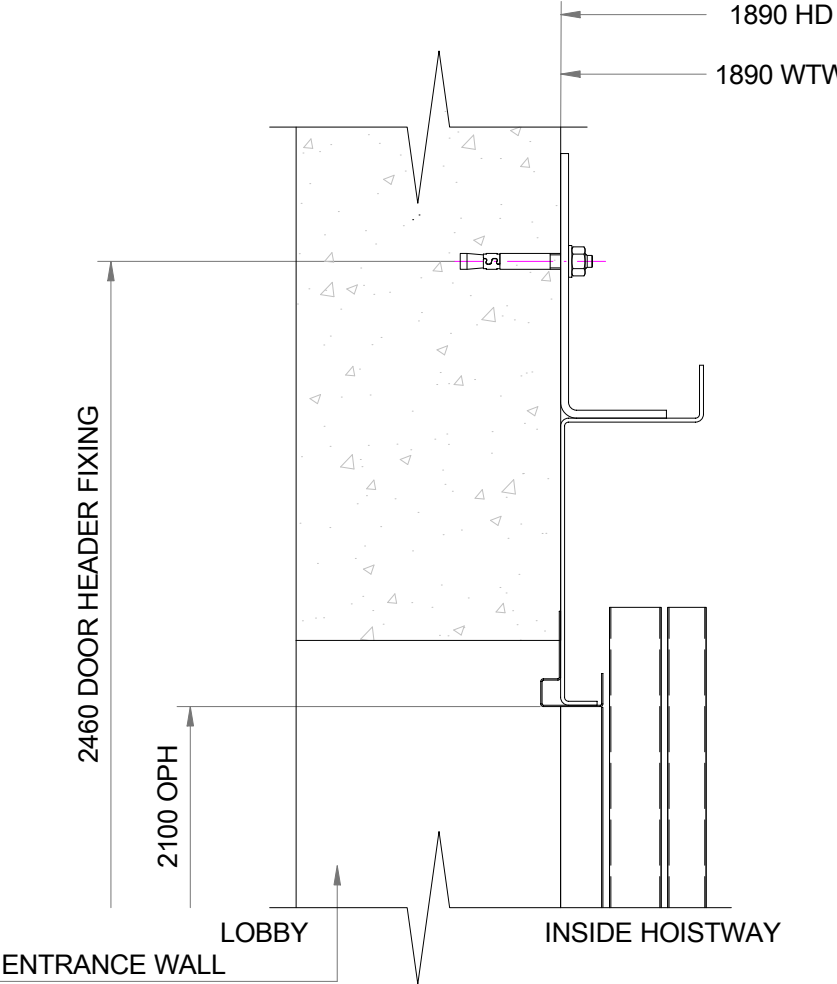
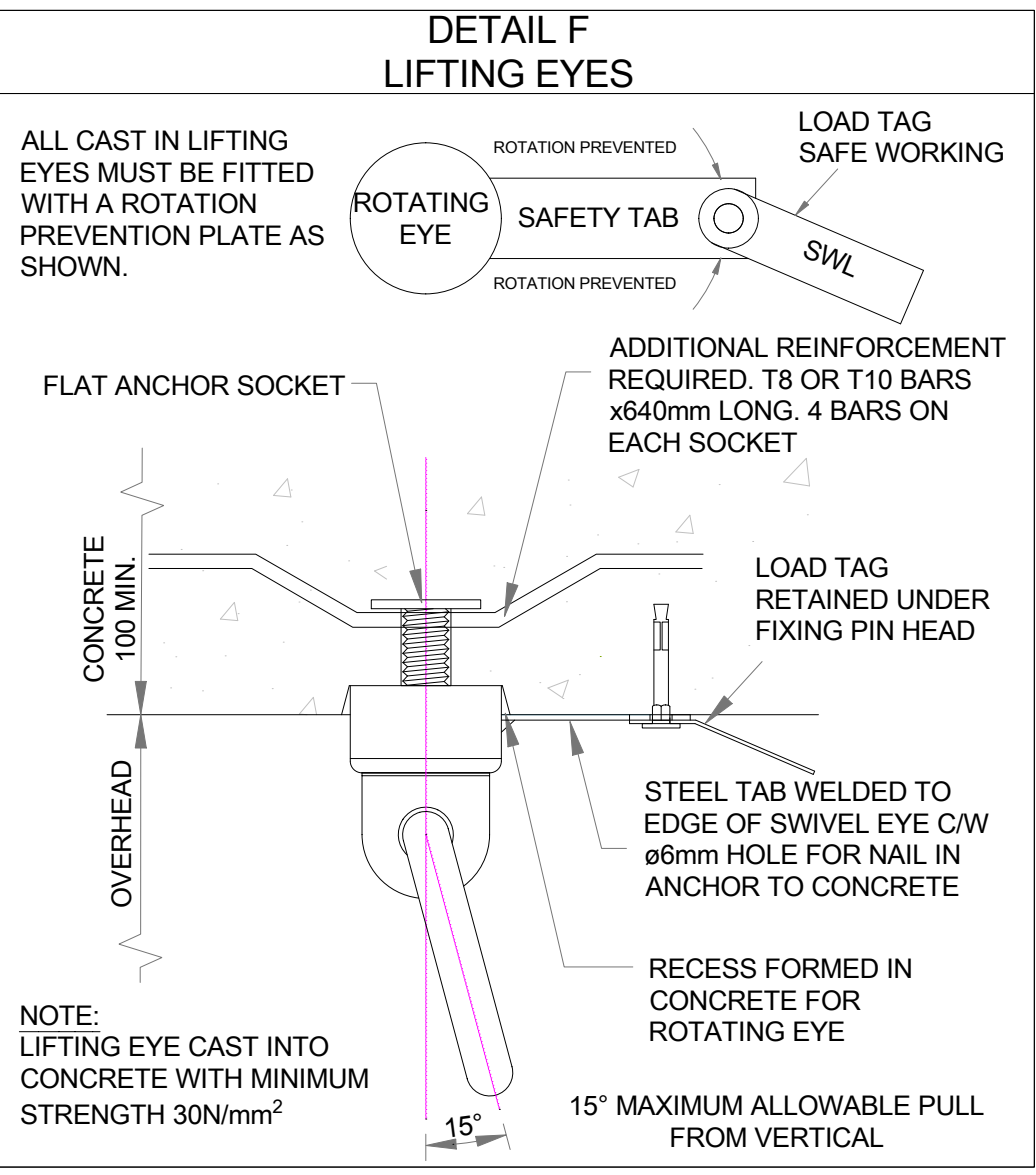
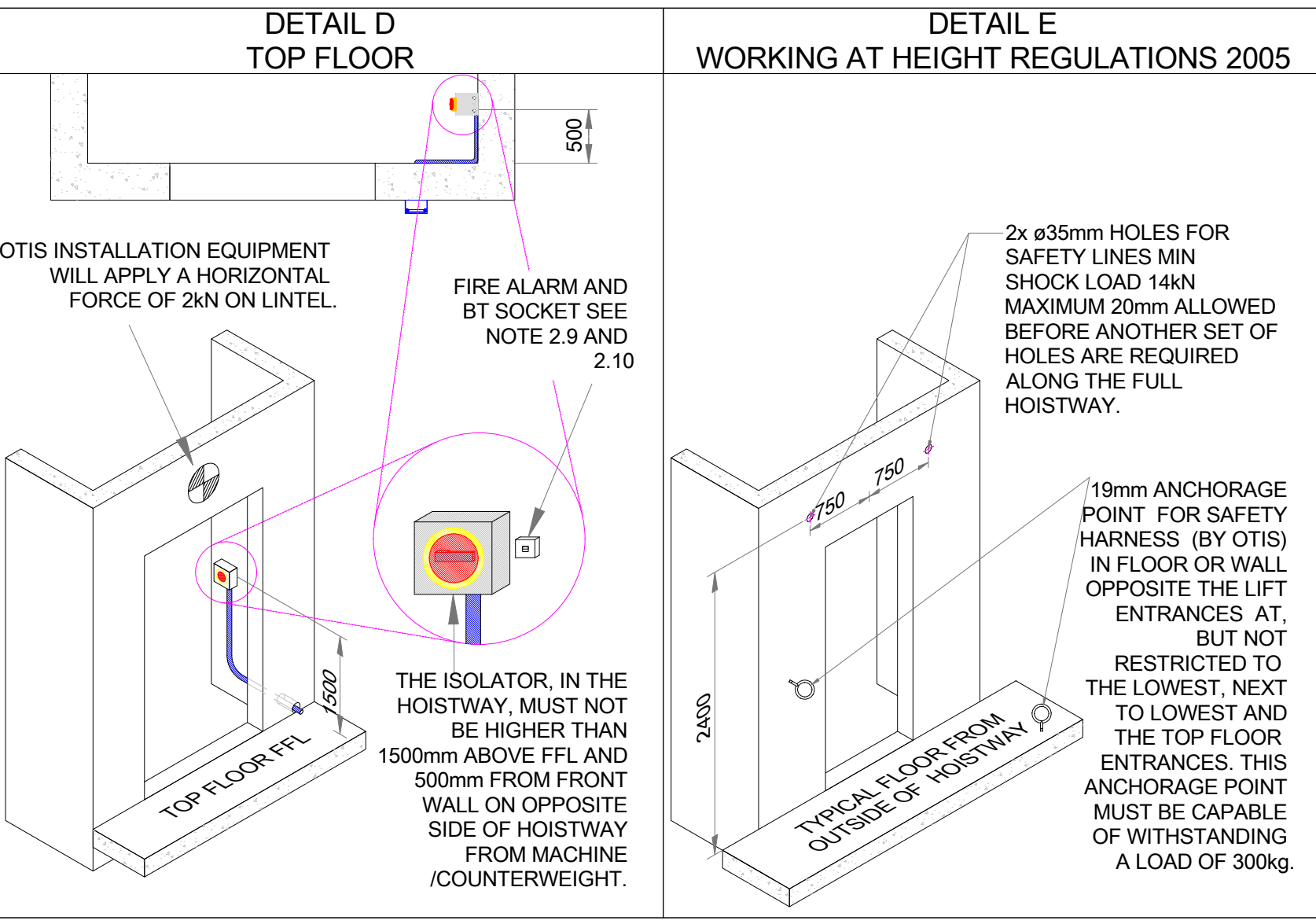
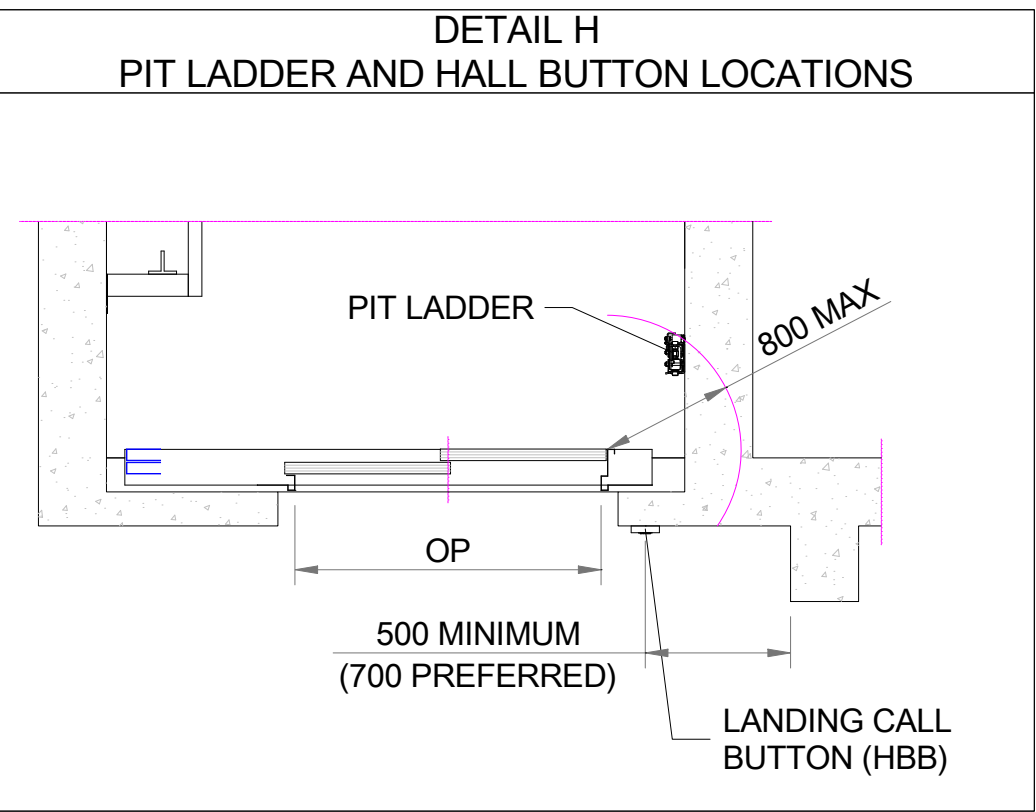
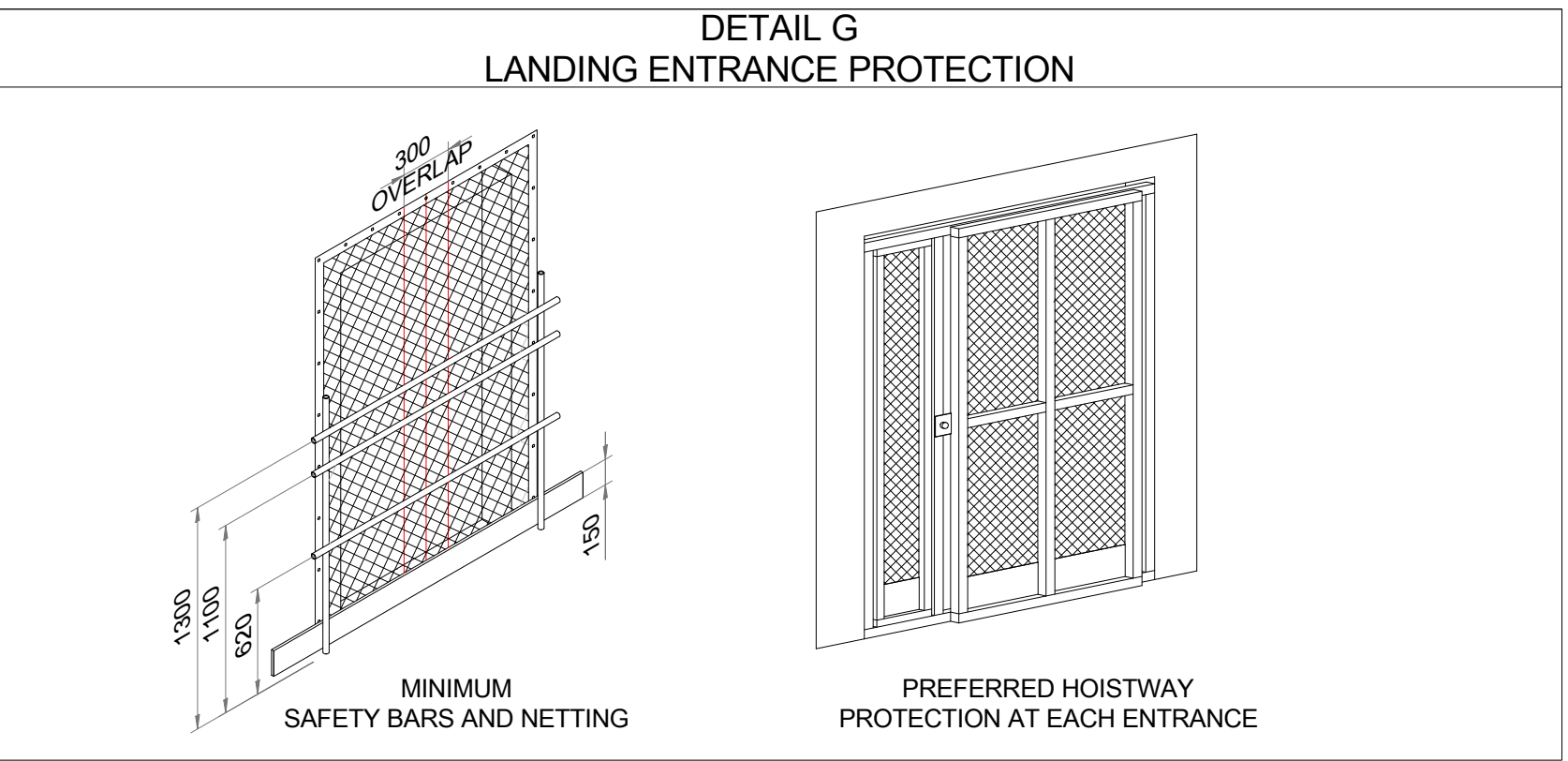
DETAIL A GUIDE BRACKET PULL AND SHEAR	DETAIL B SILL SECTION	DETAIL C HEADER SECTION
 <p>NOTE: LOADS FOR LOADS REFER TO TABLE 1 GENERAL UNIT DATA - PULL AND SHEAR</p>	 <p>NOTE: LANDINGS FFL - FINISHED FLOOR LEVEL SSL - SLAB STRUCTURAL LEVEL</p>	

Table 1 - General Unit Data				VERSION UKI 2021/5					
DESCRIPTION	ABBREVIATION	UOM	Unit 1						
UNIT NUMBER	UN	-	Unit 1			-	-	-	-
UNIT TYPE	UT	-	Atrium			-	-	-	-
CAR TYPE	CARTYPE	-	8D			-	-	-	-
NUMBER OF PASSENGERS	NBPAS	-	08 pass			-	-	-	-
DUTY LOAD	DL	kg	630			-	-	-	-
SPEED	V	m/s	1			-	-	-	-
CAR WIDTH (SHELL)	CW	mm	1100			-	-	-	-
CAR DEPTH (SHELL)	CD	mm	1400			-	-	-	-
CAR HEIGHT (SHELL)	CH	mm	2200			-	-	-	-
HOISTWAY WIDTH	HW	mm	1600			-	-	-	-
HOISTWAY DEPTH	HD	mm	1890			-	-	-	-
HOISTWAY WALL TO WALL	WTW	mm	1890			-	-	-	-
OVERHEAD	K	mm	3400			-	-	-	-
PIT	S	mm	1000			-	-	-	-
RISE	R	m	2.9			-	-	-	-
CAR ENTRANCES	NBENT	-	2[NBENT]			-	-	-	-
STOPS	N	-	2			-	-	-	-
OPENINGS	NBLD	-				-	-	-	-
DOOR OPENING WIDTH	OP	mm	900			-	-	-	-
DOOR OPENING HEIGHT	OPH	mm	2100			-	-	-	-
DOOR	DOOR	-	TLD			-	-	-	-
DOOR TYPE	DOTYP	-	PRIMAP			-	-	-	-
DOOR FRAME	DF	-	MRF150			-	-	-	-
COUNTERWEIGHT SAFETY	CWT	-	No			-	-	-	-
FIREFIGHTER LIFT	FF	-	No			-	-	-	-
PHASE	PH	-	3-Phase			-	-	-	-
VOLTAGE	VOLT	vAC	400			-	-	-	-
FREQUENCY	FREQ	Hz	50			-	-	-	-
STARTING CURRENT	Is	A	10.2			-	-	-	-
FULL LOAD CURRENT	In	A	7.5			-	-	-	-
OVERLOAD FUSE	Fuse	A	16			-	-	-	-
MOTOR POWER	PowerKW	kW	3.9			-	-	-	-
MAX. REGENERATED POWER	RegenKW	kW				-	-	-	-
HEAT RELEASE	HR	kJ/s				-	-	-	-
COMMUNICATION	COM	-	BT			-	-	-	-
DESIGN	D	-				-	-	-	-
GUIDE BRACKET FIXING BOLT SIZE	ø	mm	M12			-	-	-	-
GUIDE BRACKET LOADS MAX. SHEAR	T	kN	1.64			-	-	-	-
GUIDE BRACKET LOADS MAX. PULL	N	kN	0.73			-	-	-	-
NUMBER OF LIFTING EYES	EYES	-				-	-	-	-



Disclaimer

- Do not scale from this drawing.
- Discrepancies must be reported immediately to Otis before proceeding.
- Only figured dimensions are to be used.
- All dimensions must be site checked before fabrication or setting out.
- This document is copyrighted and the data is to be used only by relevant stakeholders for this specific project.
- For hoistway construction and tolerances refer to the general notes page.

Key	
CD - Car Depth	HW - Hoistway Width
CH - Car Height	K - Overhead
COP - Car Operating Panel	OP - Opening Width
CW - Car Width	OPH - Opening Height
CWT - Counterweight	R - Rise
DBG - Distance Between Guides	S - Pit
DOP - Door Offset	SO - Structural Opening
E&I - Emergency & Inspection	U - Hoistway Height
HD - Hoistway Depth	WTW - Wall To Wall

Notes

Location Plan

A	06-Oct-2021	VariantA	A	DM
Rev	Date	Comments	By	

OTIS

Project Name oš SAVSKO NASELJE

Project Number G9NA0342/

Site Address Savsko naselje
Ljubljana
1000

Owner .

Contractor .

Architect KOMUNAPROJEKT d.d.

Consultant .

Group Name	Group 2 kuhinja			
Unit Name	Unit 1			
Unit Number	Unit 1			
Unit Type	Atrium			
Duty Load [kg]	630			
Speed [m/s]	1			
Floors [No]	2			
Door Name	PRIMAP			
Counterw. Safety	TLD			
No				

Drawing Purpose

For Information

Drawing Title

GENERAL NOTES

Otis Drawing Number	Rev	Drawn	Checked
G9NA0342/01/02-06	A	DM	D. Malovrh
Project Drawing Number	Scale @A1Sheet No		
.	N/A 6 of 6		

