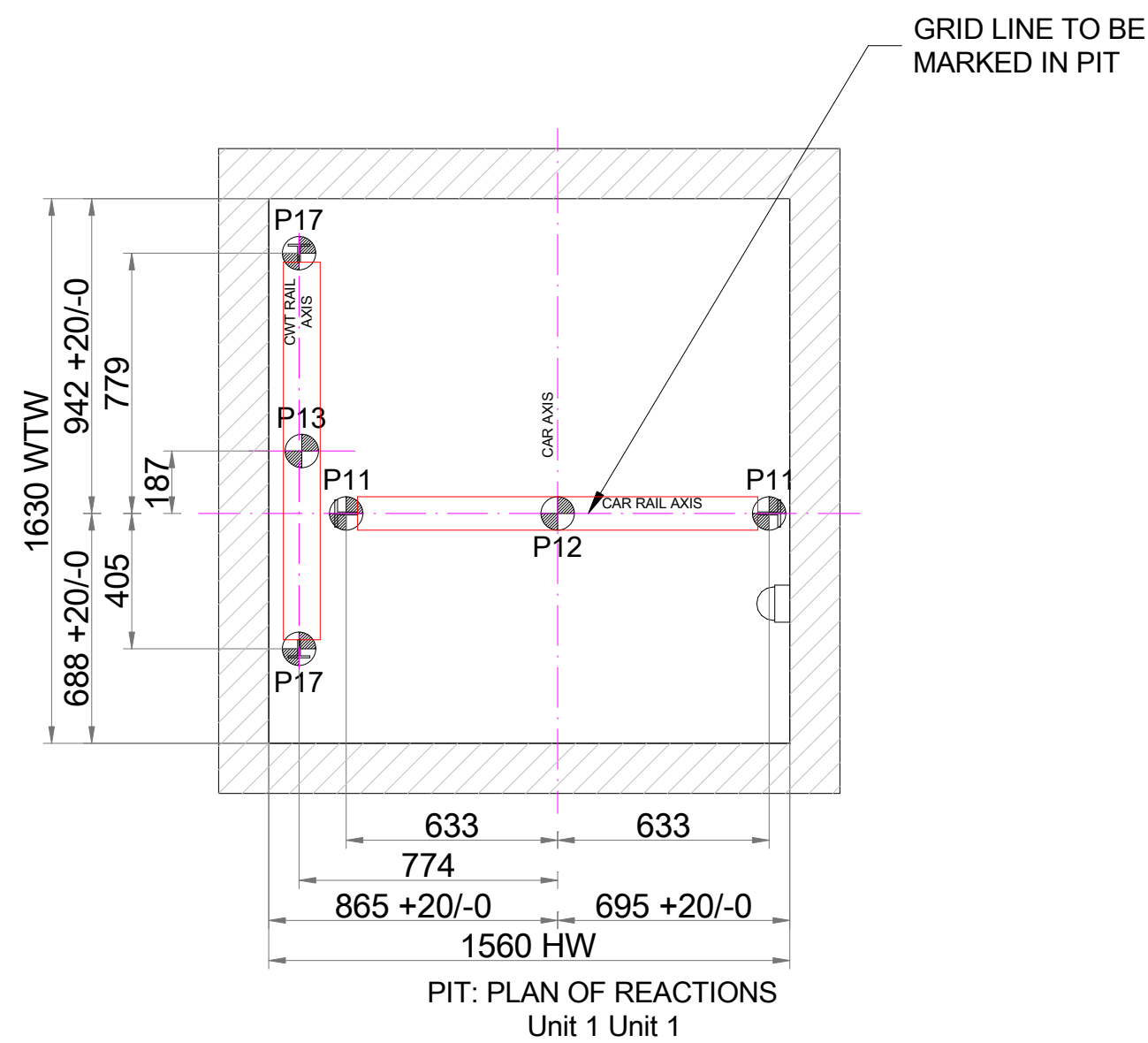
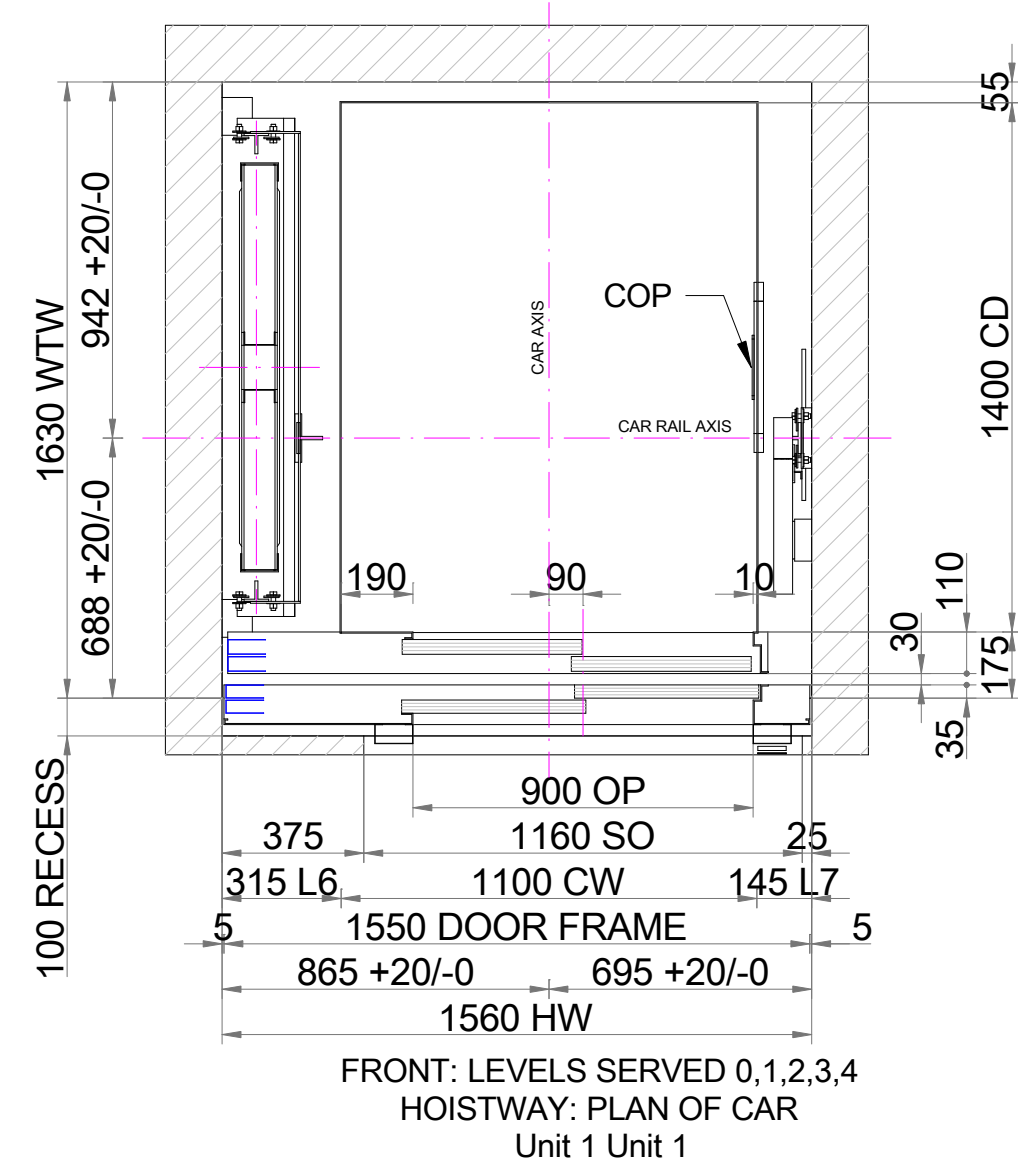
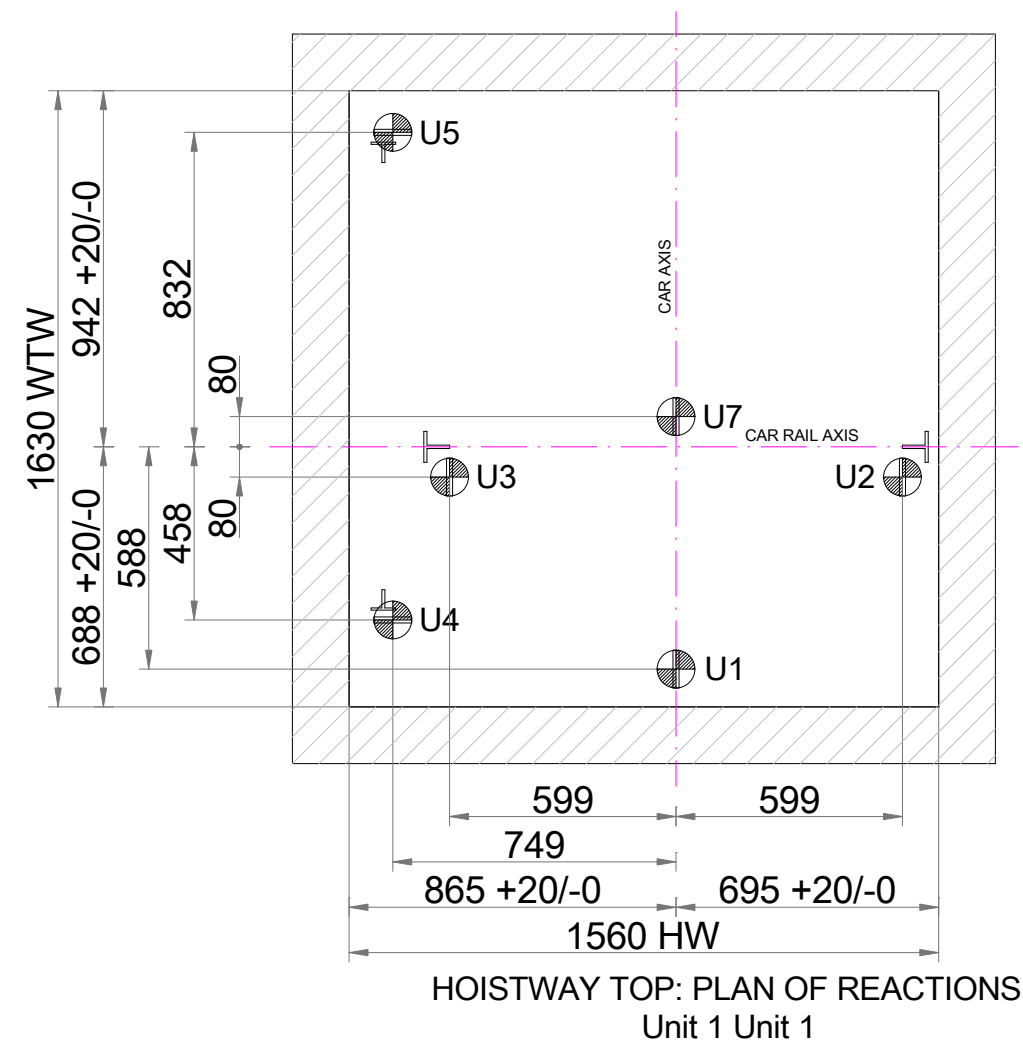
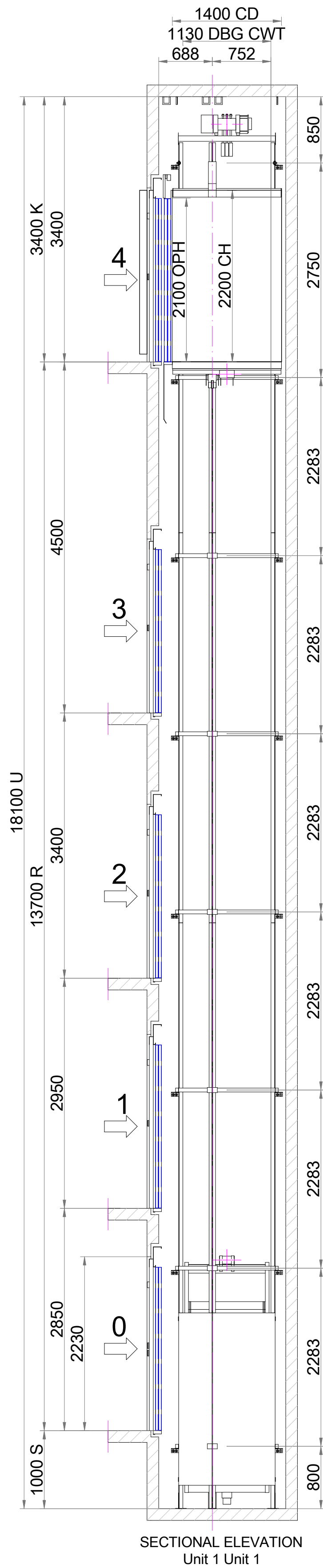
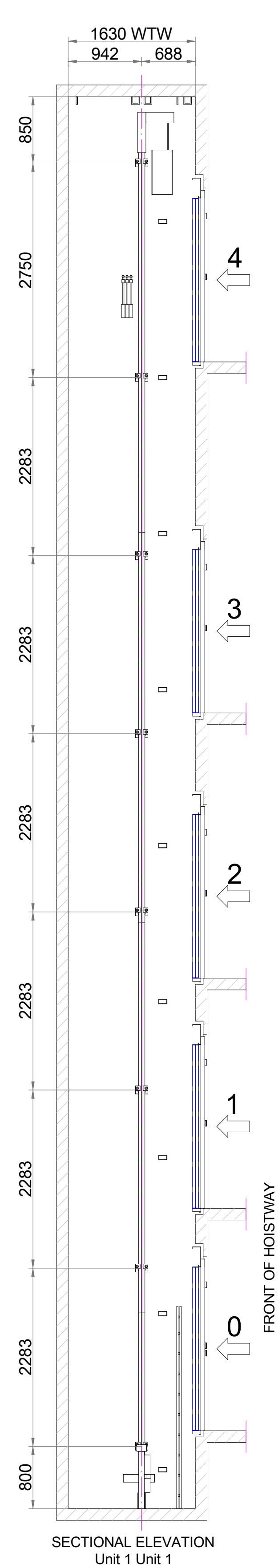


TEHNIČNI OPIS DVIGALA - dvigalo št. 3				
Število dvigal		1		
Tip dvigala			MTD_ DVG-BUNSE BKG 100.30/2	MTD
Nosilnost	kg	100		
Hitrost	m/s	0,3		
Višina dviga	mm	5650		
Število postaj		3		
število vhodov		3		
na isti strani		3		
število vhodov pod 180°		0		
Dimenzije jaška	mm	1220x1180		
Jama jaška	mm	730		
Glava jaška	mm	2590		
Tip jaška		konstrukcija	samonosilna kovinska konstrukcija (v sklopu dvigala), katero naročnik obloži z negorljivimi mavčnimi ploščami, zato ni potrebno izdelati betonskega jaška za dvigalo	
Strojnica	mm	MRL	MTD_dvigalo brezstrojnice po EN81-31, motor montiran v glavi jaška	
Vrata strojnice	mm	900x600	vrtljiva, pločevina barvana v RAL	
Vrata dvigala	mm (š * v)	900x1200	giljotina vrata, montirana na tleh, odpiranje polovica gor, polovica dol	
kabine	kom		brez kabinskih vrat	
jaška	kom	3	giljotina vrata, montirana na tleh, pločevina barvana v RAL	
Kabina				
	mm (š*g*v)	900x1000x1200	neprehodna kabina	
		stene	pločevina, barvana v RAL	
		pod	Inox SB	
		obroba	pločevina, barvana v RAL	
		strop	pločevina, barvana v RAL	
		ročaj	NE	
		ogledalo	NE	
		ventilator	NE	
		dodatno	podatki o dvigalu, diagonalna prečka za preprečitev izpadanja materiala	
Vrsta krmilja			zunanje, univerzalno, nameščeno v glavi jaška	
Pogon			reduktorski 1,5 kW, 400V, zaščita IP54	
Obešanje		1:1		
Krmiljenje			Mikroprocesorski sistem, krmilna napetost 24V	
Lovilna naprava			NE	
Kabinsko tipkalo			NE	
Zunanji pozivi		3	optični signal zasedenosti dvigala v tipkalih	
Dodatna oprema			elektronsko merjenje kabine	
			kompletna instalacija z razsvetljavo po jašku	
			varnostna in končna stikala v jašku	
			sistem diagnostike	
			servisni komandni plošči za upravljanje	
Standardi: EN81-31, E-120 po EN81-58, Pravilnik o var. dvigal št. 25/2016				

TEHNIČNI OPIS DVIGALA - dvigalo št. 4				
Število dvigal		1		
Tip dvigala			MTD_ DVG-BUNSE BKG 100.30/2	MTD
Nosilnost	kg	100		
Hitrost	m/s	0,3		
Višina dviga	mm	8100		
Število postaj		3		
število vhodov		3		
na isti strani		3		
število vhodov pod 180°		0		
Dimenzije jaška	mm	1320x1180		
Jama jaška	mm	730		
Glava jaška	mm	2590		
Tip jaška		konstrukcija	samonosilna kovinska konstrukcija (v sklopu dvigala), katero naročnik obloži z negorljivimi mavčnimi ploščami, zato ni potrebno izdelati betonskega jaška za dvigalo	
Strojnica	mm	MRL	MTD_dvigalo brezstrojnice po EN81-31, motor montiran v glavi jaška	
Vrata strojnice	mm	1000x600	vrtljiva, pločevina barvana v RAL	
Vrata dvigala	mm (š * v)	1000x1200	giljotina vrata, montirana na tleh, odpiranje polovica gor, polovica dol	
kabine	kom		brez kabinskih vrat	
jaška	kom	3	giljotina vrata, montirana na tleh, pločevina barvana v RAL	
Kabina				
	mm (š*g*v)	1000x1000x1200	neprehodna kabina	
		stene	pločevina, barvana v RAL	
		pod	Inox SB	
		obroba	pločevina, barvana v RAL	
		strop	pločevina, barvana v RAL	
		ročaj	NE	
		ogledalo	NE	
		ventilator	NE	
		dodatno	podatki o dvigalu, diagonalna prečka za preprečitev izpadanja materiala	
Vrsta krmilja			zunanje, univerzalno, nameščeno v glavi jaška	
Pogon			reduktorski 1,5 kW, 400V, zaščita IP54	
Obešanje		1:1		
Krmiljenje			Mikroprocesorski sistem, krmilna napetost 24V	
Lovilna naprava			NE	
Kabinsko tipkalo			NE	
Zunanji pozivi		3	optični signal zasedenosti dvigala v tipkalih	
Dodatna oprema			elektronsko merjenje kabine	
			kompletna instalacija z razsvetljavo po jašku	
			varnostna in končna stikala v jašku	
			sistem diagnostike	
			servisni komandni plošči za upravljanje	
Standardi: EN81-31, E-120 po EN81-58, Pravilnik o var. dvigal št. 25/2016				

TEHNIČNI OPIS - osebno dvigalo				
Število dvigal		1		
Tip dvigala			MRL, DVG ATLAS- tipski certifikat	
Nosilnost	kg	630	oziroma 8 oseb	
Hitrost	m/s	1		
Višina dviga	mm	9200		
Število postaj		4		
število vhodov		4		
na isti strani		4		
število vhodov pod 180°		0		
Dimenzije jaška	mm	1700x1750		
Jama jaška	mm	1100		
Glava jaška	mm	3900		
Tip jaška		Betonski		
Strojnica	mm	MRL	dvigalo brezstrojnice po EN81-20/50, 4,2 kW	
Vrata	mm (š * v)	900x2100	2 - panelna centralna teleskopska	
kabine	kom	1	2 - panelna centralna teleskopska, VVVF regulirana s svetlobno zaveso, v Inox SB	
jaška	kom	4	2 - panelna centralna teleskopska, v Inox SB, E-120 po EN81-58	
Kabina				
	mm (š*g*v)	1100x1400x2200		
		stene	Inox SB	
		pod	priprava za polaganje obloge 14 mm - obveza naročnika	
		obroba	Inox SB	
		strop	Inox SB z LED razsvetljavo	
		ročaj	FI 40 mm v Inox SB na zadnji steni	
		ogledalo	na zadnji steni nad ročajem	
		ventilator	integriran v stropu	
		dodatno	podatki o dvigalu	
Sistem upravljanja			SIMPLEKS	
Pogon			GEARLESS WVF, Energy efficiency class A, VDI 4707	180 v/h
Obešanje		2:1		
Krmiljenje			Mikroprocesorko ARKEL, CAN-BUS sistem, zbiranje navzdoli	
Lovilna naprava			Dvosmerna - delovanje v obeh smereh	
Kabinsko tipkalo		1	s pozivnimi tipkami - okroglimi Brail, LCD kazalnik	
			dvosmerna govorna naprava za povezavo z klicnim centrom	
			možnost vgradnje kontrole pristopa	
			tipki za odpiranje in zapiranje vrat	
			indikacija preobremenitve kabine	
			zasilna razsvetljava	
			požarni program	
			sistem za samodiagnozo in rezervacijo kabine	
			ključ prioritete	
Zunanji pozivi		4	s pozivnimi tipkami-okroglimi Brail, matričnim kazalnikom vgrajeni v okvir jaškovnih vrat	
Dodatna oprema			elektronsko merjenje kabine	
			kompletna instalacija z razsvetljavo po jašku	
			varnostna in končna stikala v jašku	
			UPS naprava za reševanje v najbližjo postajo	
			servisni komandni plošči za upravljanje nad in pod kabino	
			GSM modul za dvosmerno komunikacijo	
Standardi: EN81-20, EN81-50, EN81-28, EN81-58, EN81-70, EN81-73, EN81-21, Pravilnik o var. dvigal št. 25/2016				

TEHNIČNI OPIS - osebno/tovorno dvigalo				
Število dvigal		1		
Tip dvigala			MRL, DVG ATLAS- tipski certifikat	
Nosilnost	kg	630	oziroma 8 oseb	
Hitrost	m/s	1		
Višina dviga	mm	15500		
Število postaj		5		
število vhodov		5		
na isti strani		5		
število vhodov pod 180°		0		
Dimenzije jaška	mm	1700x1750		
Jama jaška	mm	1100		
Glava jaška	mm	3900		
Tip jaška		Betonski		
Strojnica	mm	MRL	dvigalo brezstrojnice po EN81-20/50, 4,2 kW	
Vrata	mm (š * v)	900x2100	2 - panelna centralna teleskopska	
kabine	kom	1	2 - panelna centralna teleskopska, VVVF regulirana s svetlobno zaveso, v Inox SB	
jaška	kom	5	2 - panelna centralna teleskopska, v Inox SB, E-120 po EN81-58	
Kabina				
	mm (š*g*v)	1100x1400x2200		
		stene	Inox SB	
		pod	priprava za polaganje obloge 14 mm - obveza naročnika	
		obroba	Inox SB	
		strop	Inox SB z LED razsvetljavo	
		ročaj	FI 40 mm v Inox SB na zadnji steni	
		ogledalo	na zadnji steni nad ročajem	
		ventilator	integriran v stropu	
		dodatno	podatki o dvigalu	
Sistem upravljanja			SIMPLEKS	
Pogon			GEARLESS VWF, Energy efficiency class A, VDI 4707	180 v/h
Obešanje		2:1		
Krmiljenje			Mikroprocesorko ARKEL, CAN-BUS sistem, zbiranje navzdoli	
Lovilna naprava			Dvosmerna - delovanje v obeh smereh	
Kabinsko tipkalo		1	s pozivnimi tipkami - okroglimi Brail, LCD kazalnik	
			dvosmerna govorna naprava za povezavo z klicnim centrom	
			možnost vgradnje kontrole pristopa	
			tipki za odpiranje in zapiranje vrat	
			indikacija preobremenitve kabine	
			zasilna razsvetljava	
			požarni program	
			sistem za samodiagnozo in rezervacijo kabine	
			ključ prioritete	
Zunanji pozivi		5	s pozivnimi tipkami-okroglimi Brail, matričnim kazalnikom vgrajeni v okvir jaškovnih vrat	
Dodatna oprema			elektronsko merjenje kabine	
			kompletna instalacija z razsvetljavo po jašku	
			varnostna in končna stikala v jašku	
			UPS naprava za reševanje v najbližjo postajo	
			servisni komandni plošči za upravljanje nad in pod kabino	
			GSM modul za dvosmerno komunikacijo	
Standardi: EN81-20, EN81-50, EN81-28, EN81-58, EN81-70, EN81-73, EN81-21, Pravilnik o var. dvigal št. 25/2016				



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.

Disclaimer

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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
EdI - Emergency & Inspection	U - Hoistway Height
HD - Hoistway Depth	WTW- Wall To Wall

Notes

Location Plan

Index	Level markings	Floor to floor	FFL
25	.		
24	.		
23	.		
22	.		
21	.		
20	.		
19	.		
18	.		
17	.		
16	.		
15	.		
14	.		
13	.		
12	.		
11	.		
10	.		
9	.		
8	.		
7	.		
6	.		
5	4	3400	13700
4	3	4500	9200
3	2	3400	5800
2	1	2950	2850
1	0	2850	

Dimension	Value	[mm]
Overhead	K	3400
Rise	R	13700
Pit	S	1000

A	26-Nov-2024	TPD1 - Genesis	PM
Rev	Date	Comments	By



Project Name	Plezalni center Ljubljana
Project Number	G9NEH277

Site Address Ljutomer

Owner	
Contractor	
Architect	
Consultant	

Group Name	TPD1 - Genesis			
Unit Name	Unit 1			
Unit Number	Unit 1			
Unit Type	Atrium			
Duty Load [kg]	630			
Speed [m/s]	1			
Floors [No]	5			
Door Name	PRIMAP TLD			
Counterw. Safety	No			

Drawing Purpose
For Construction

Drawing Title

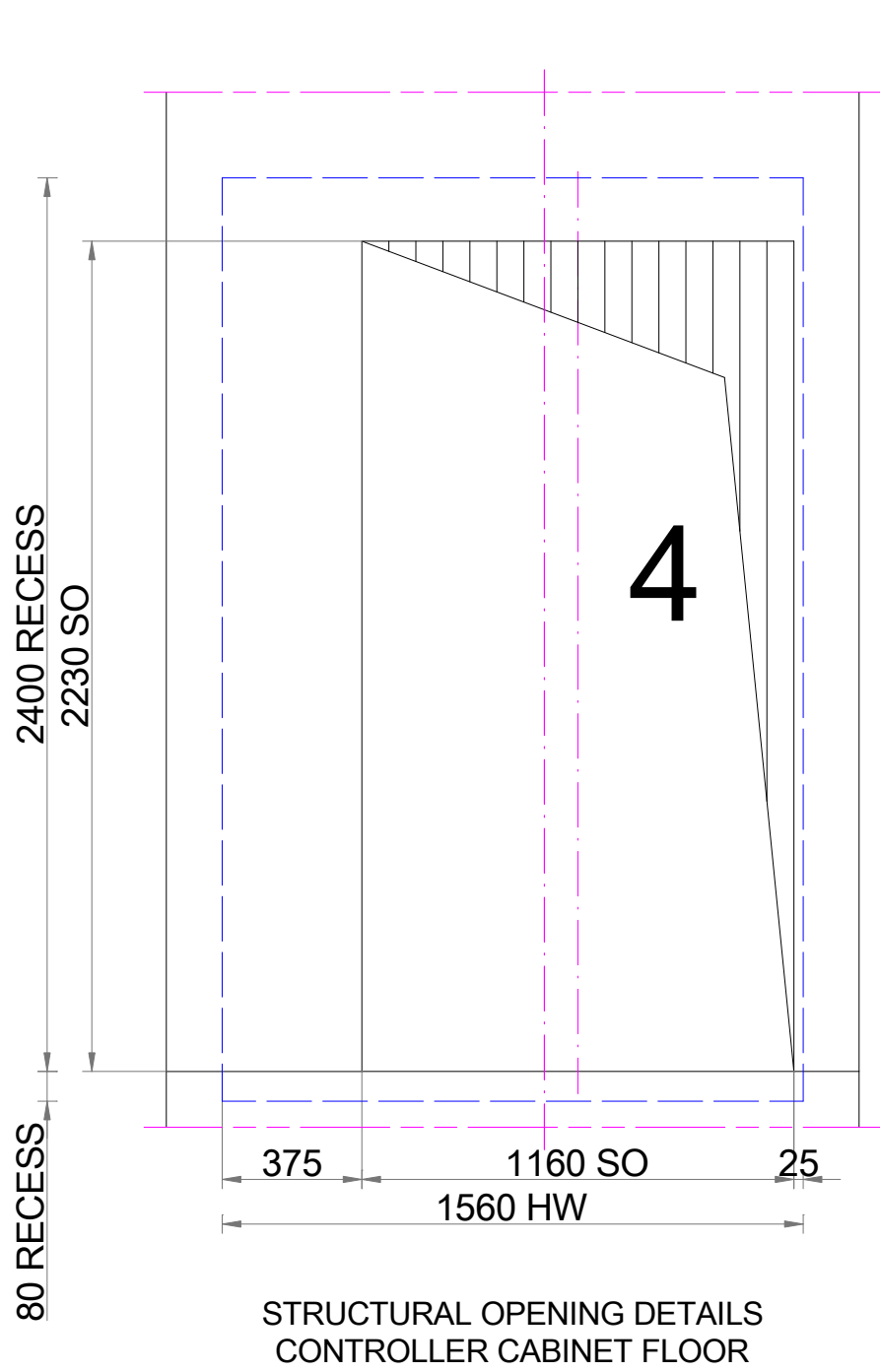
BUILDERS WORK - ELEVATION & PLAN

Otis Drawing Number G9NEH277-01-03-01	Rev A	Drawn PM	Checked P. Maksimovic
Project Drawing Number .			Scale @ A1 N/A
			Sheet No. 1 of 6

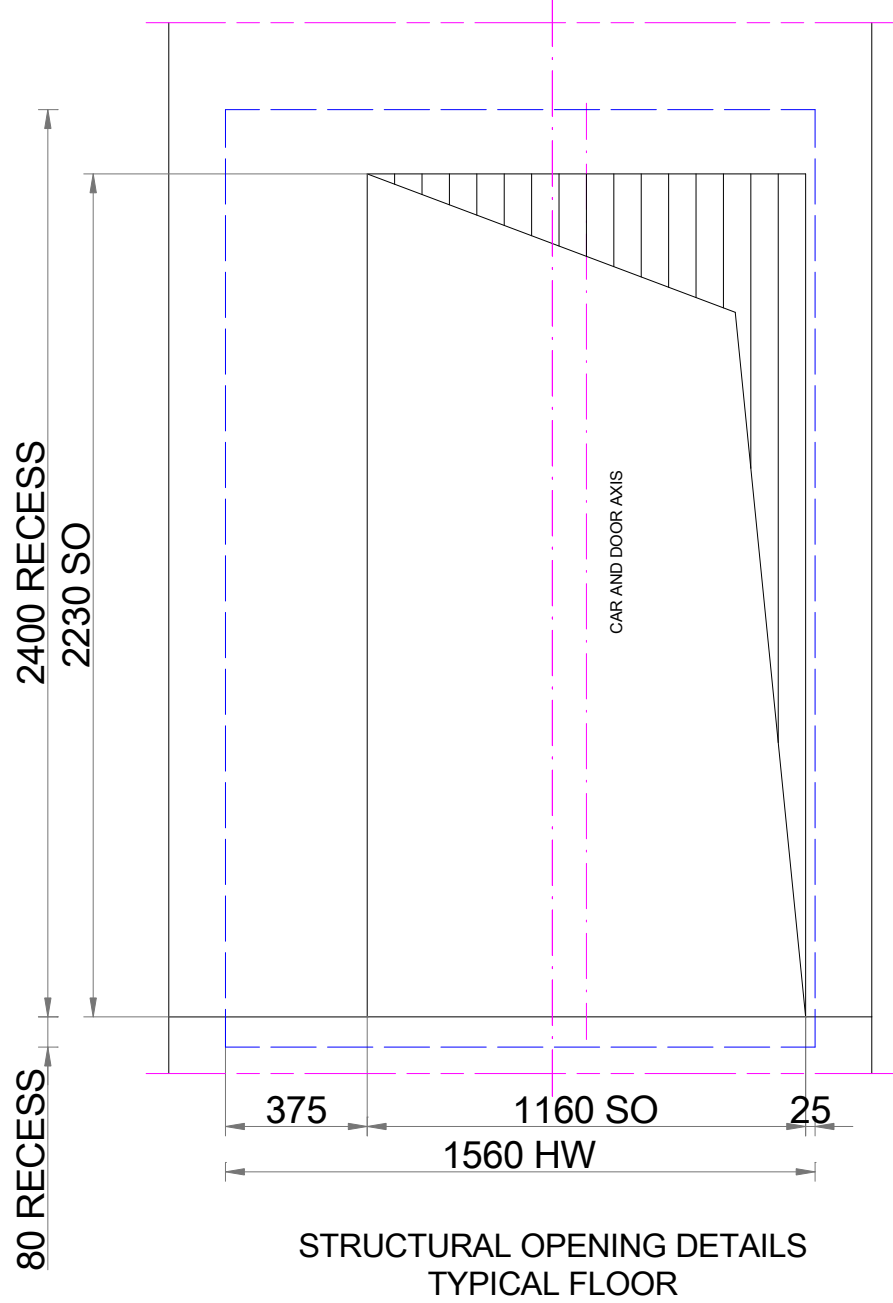
Pit loads (kN)		
Car guides	P11	16
Car buffer	P12	60
Counterweight buffer	P13	47
Counterweight guides	P17	18

Note

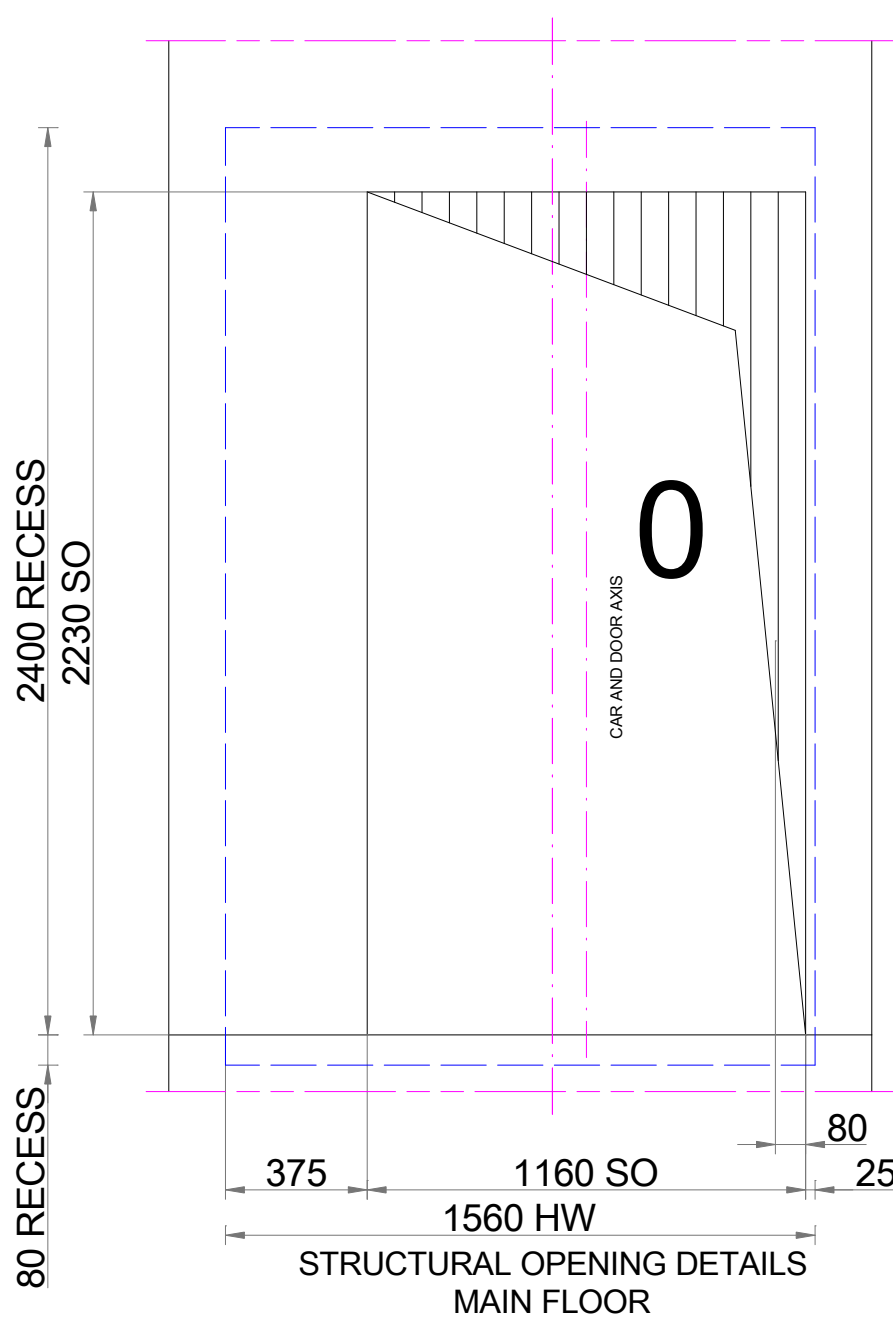
- Loads P11/P11 & P17/P17 do act simultaneously from each guide rail onto the pit floor; they support the machine and hitch which the equipment is suspended from.
- Loads P12 and P13 do not act simultaneously. If multiple buffers are shown the load is distributed equally between those buffers.



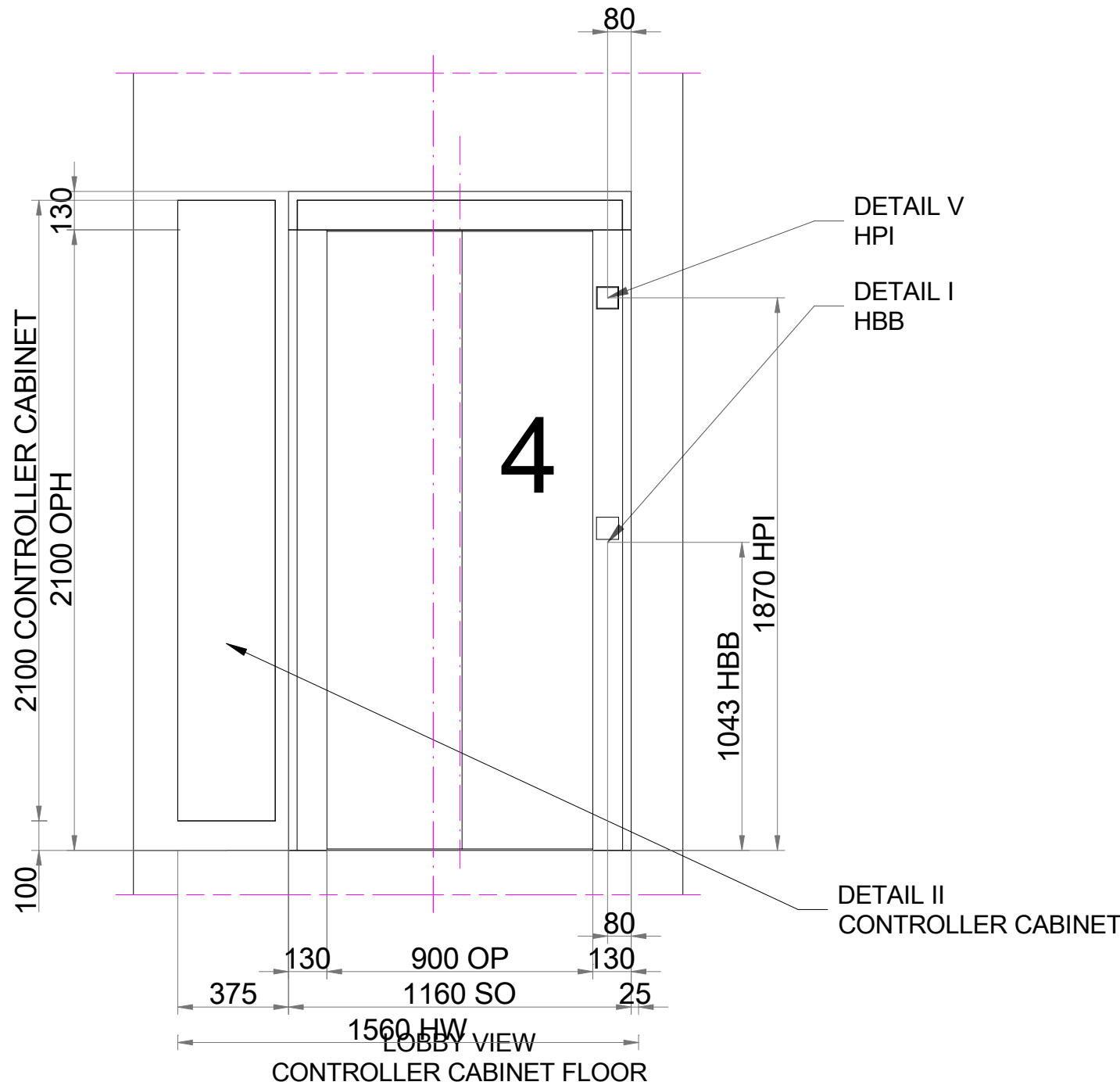
STRUCTURAL OPENING DETAILS
CONTROLLER CABINET FLOOR



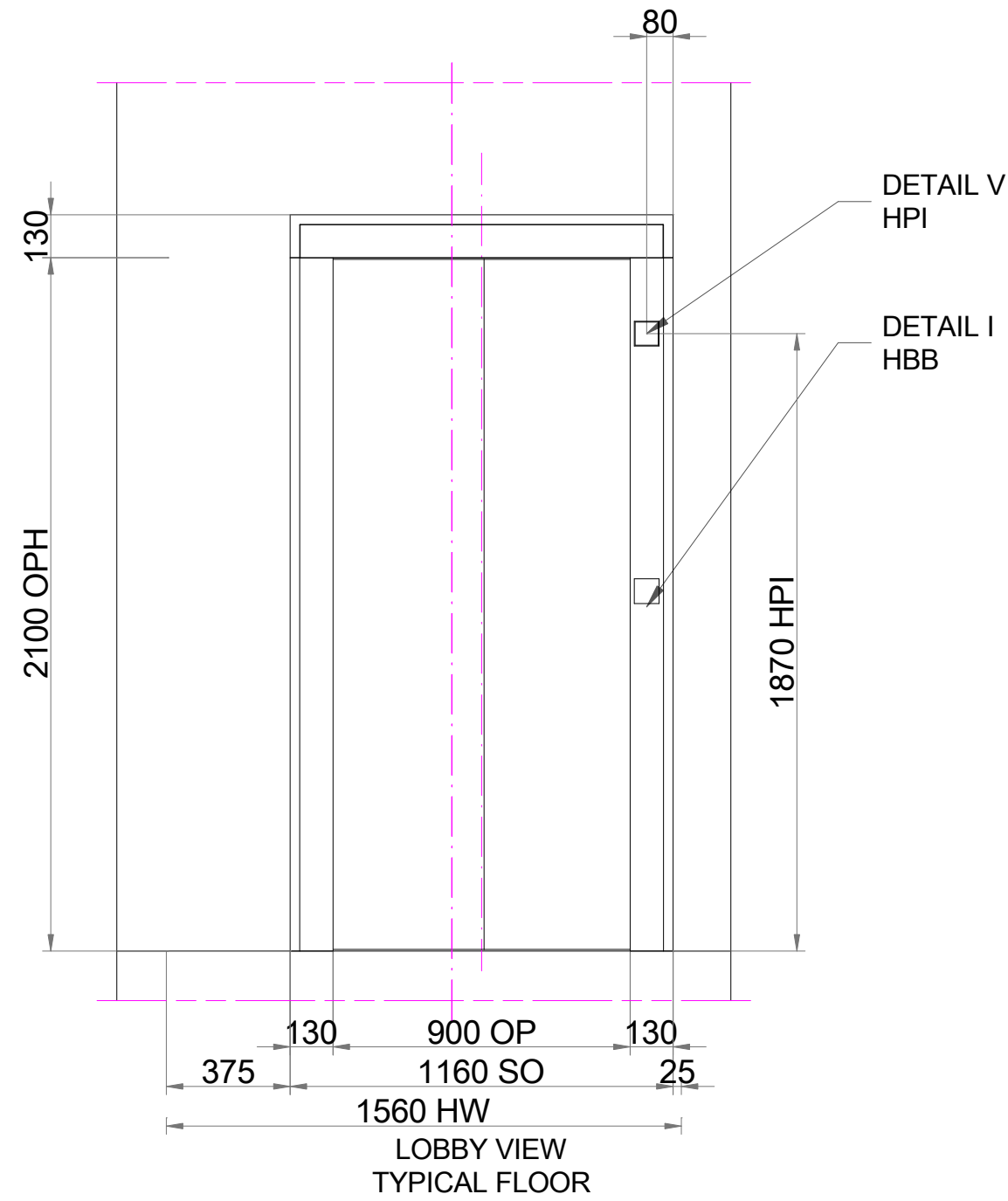
STRUCTURAL OPENING DETAILS
TYPICAL FLOOR



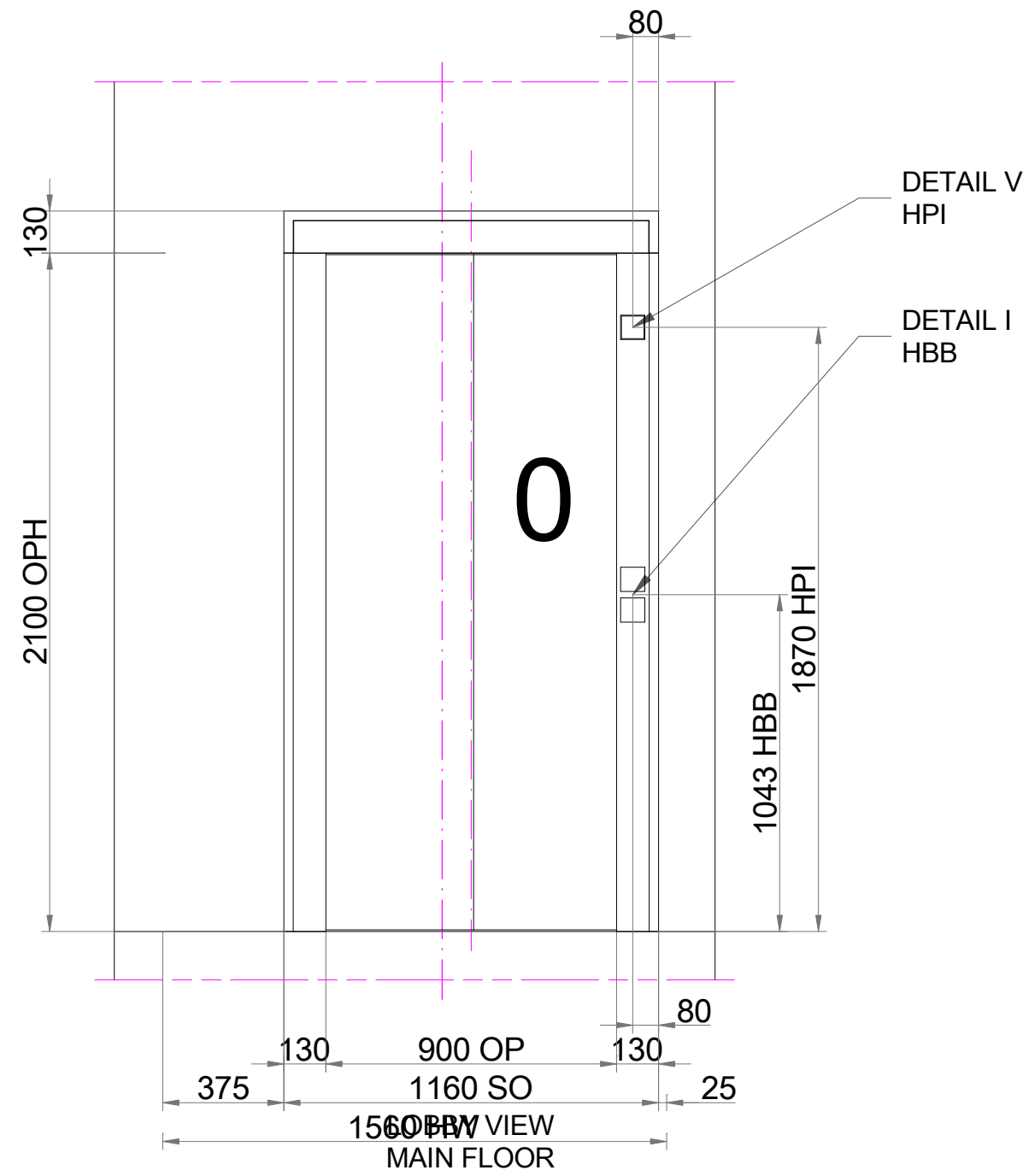
STRUCTURAL OPENING DETAILS
MAIN FLOOR



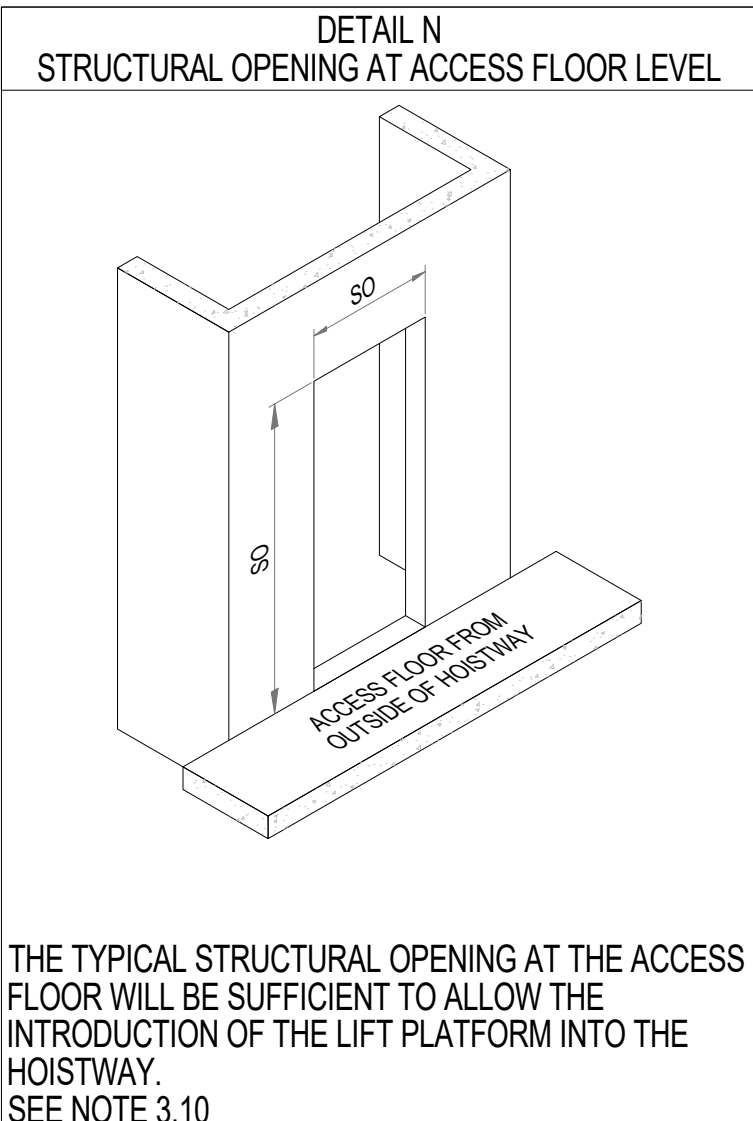
LOBBY VIEW
CONTROLLER CABINET FLOOR



LOBBY VIEW
TYPICAL FLOOR



LOBBY VIEW
MAIN FLOOR



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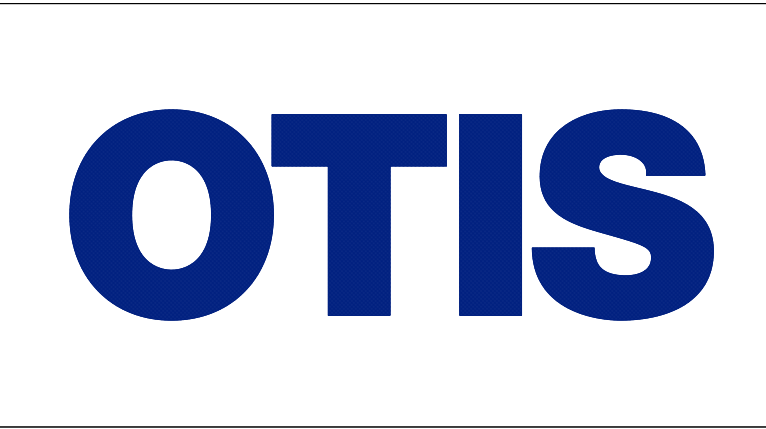
Key

CD - Car Depth	HW - Hoistway Width
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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	26-Nov-2024	TPD1 - Genesis	PM
Rev	Date	Comments	By



Project Name Plezalni center Ljubljana
Project NumberG9NEH277
Site Address Ljutomer
Owner
Contractor
Architect
Consultant

Group Name	TPD1 - Genesis			
Unit Name	Unit 1			
Unit Number	Unit 1			
Unit Type	Atrium			
Duty Load [kg]	630			
Speed [m/s]	1			
Floors [No]	5			
Door Name	PRIMAP TLD			
Counterw. Safety	No			

Drawing Purpose			
For Construction			
Drawing Title			
TPD1 - Genesis - Unit 1 BUILDERS WORK - ENTRANCES & LOBBY			
Otis Drawing Number	Rev	Drawn	Checked
G9NEH277-01-03-02	A	PM	P. Maksimovic
Project Drawing Number			Scale @A1Sheet No
			N/A 2 of 6

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Key			
CD	- Car Depth	HW	- Hoistway Width
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DOP	- Door Offset	SO	- Structural Opening
E&I	- Emergency & Inspection	U	- Hoistway Height
HD	- Hoistway Depth	WTW	- Wall To Wall

Notes

Location Plan

A	26-Nov-2024	TPD1 - Genesis	PM
Rev	Date	Comments	By

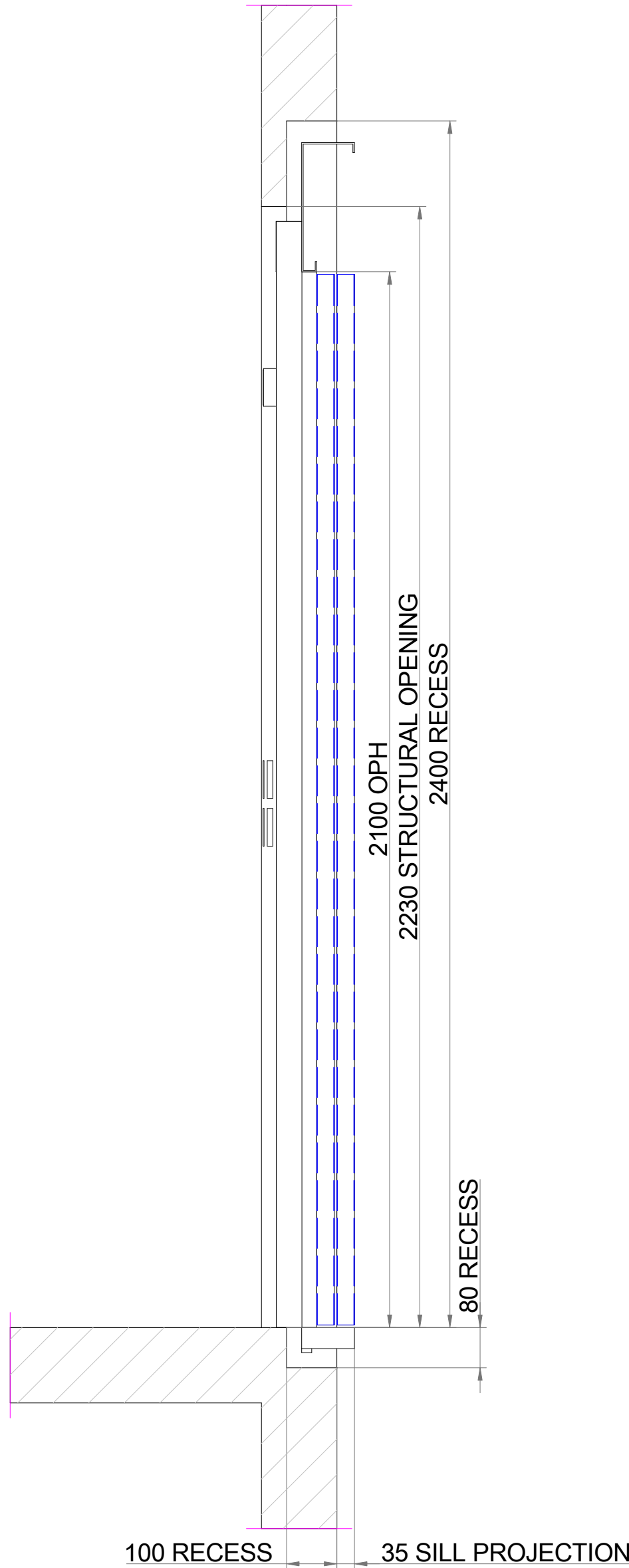
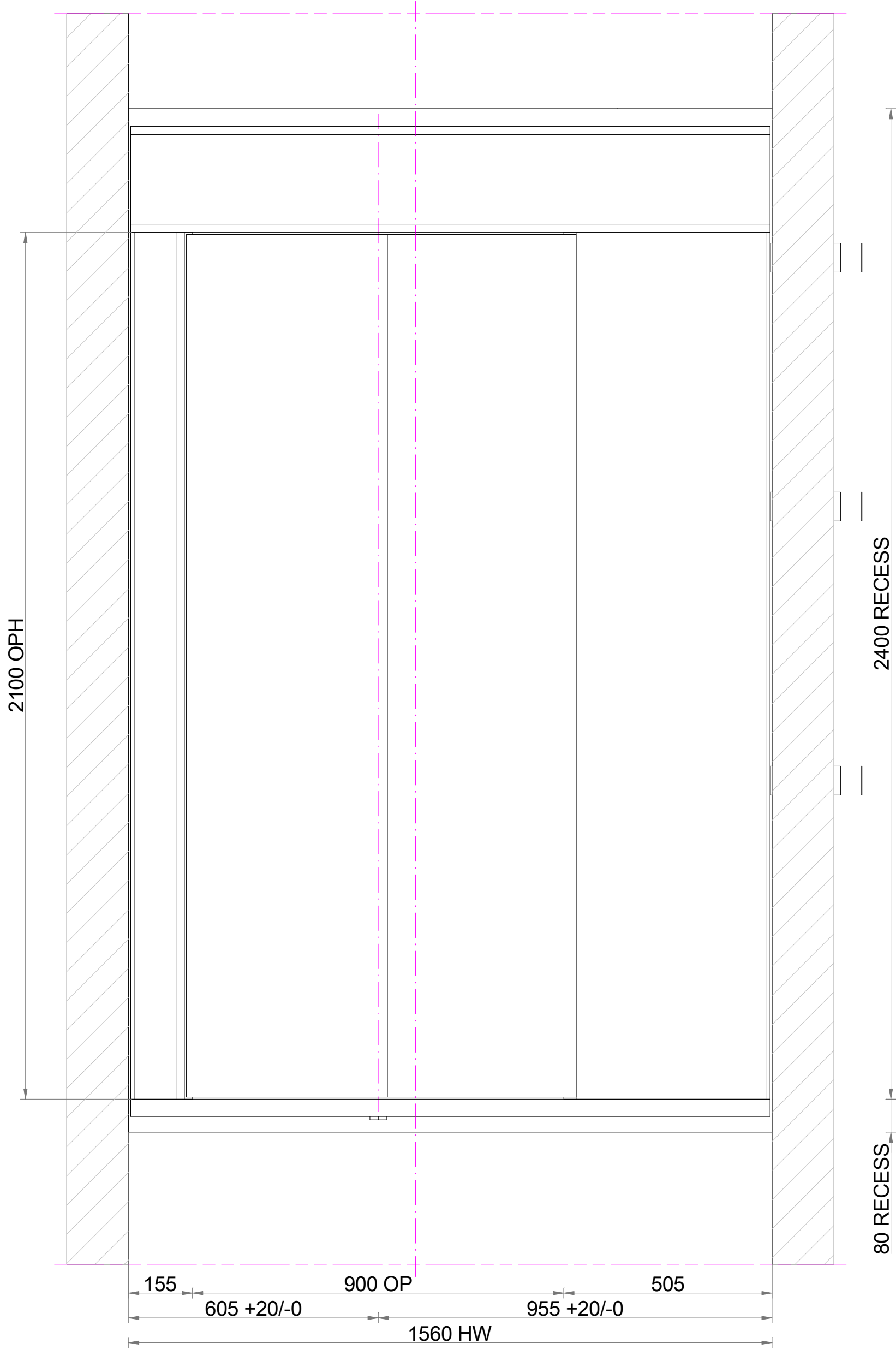


Project Name Plezalni center Ljubljana
Project NumberG9NEH277
Site Address
Ljutomer

Owner
Contractor .
Architect
Consultant .

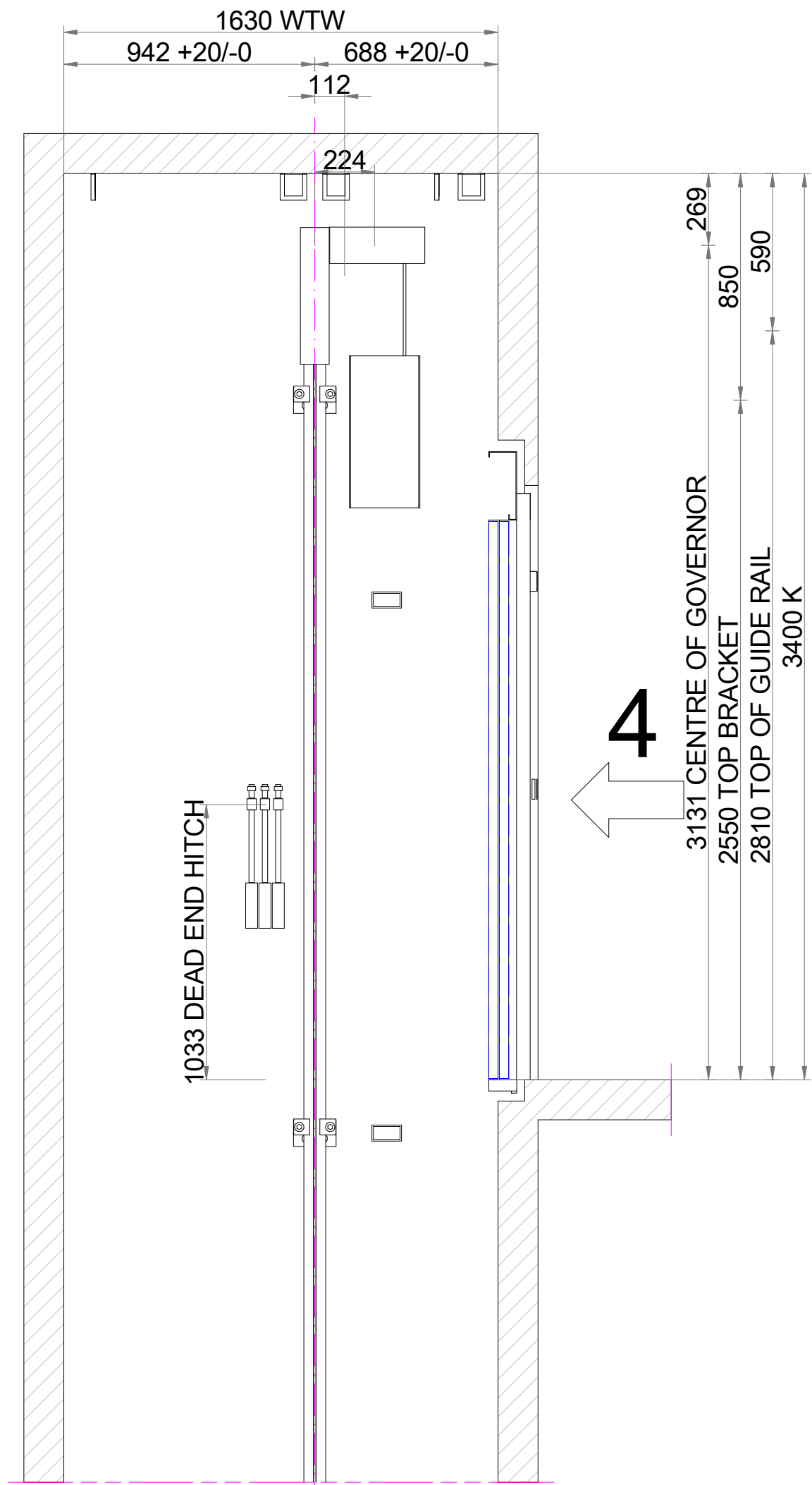
Group Name	TPD1 - Genesis			
Unit Name	Unit 1			
Unit Number	Unit 1			
Unit Type	Atrium			
Duty Load [kg]	630			
Speed [m/s]	1			
Floors [No]	5			
Door Name	PRIMAP TLD			
Counterw. Safety	No			

Drawing Purpose			
For Construction			
Drawing Title			
TPD1 - Genesis - Unit 1 FIXINGS			
Otis Drawing Number	Rev	Drawn	Checked
G9NEH277-01-03-03	A	PM	P. Maksimovic
Project Drawing Number			Scale @A1Sheet No
.			N/A 3 of 6

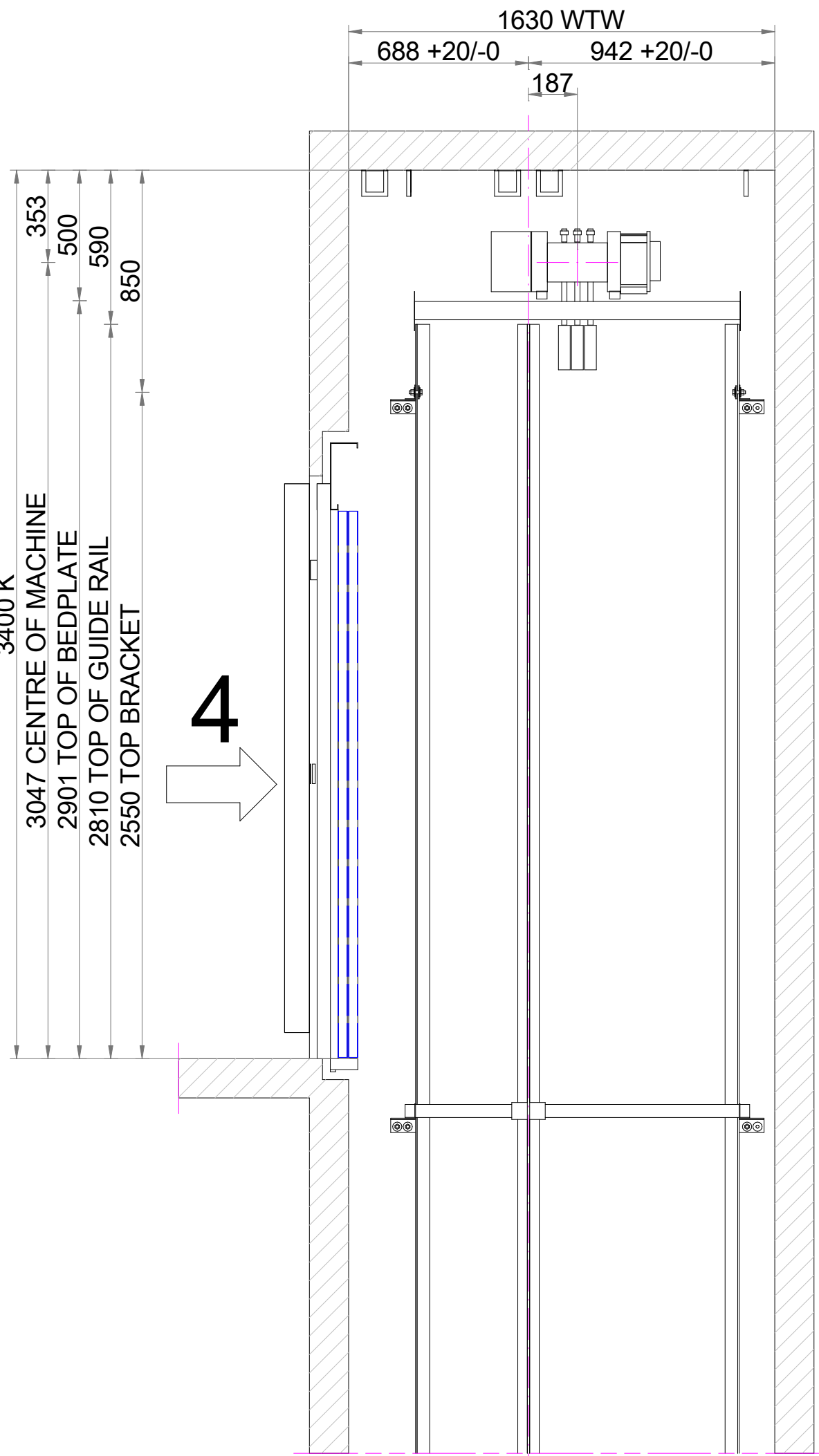


LANDING DOOR FIXINGS
SECTIONAL ELEVATION

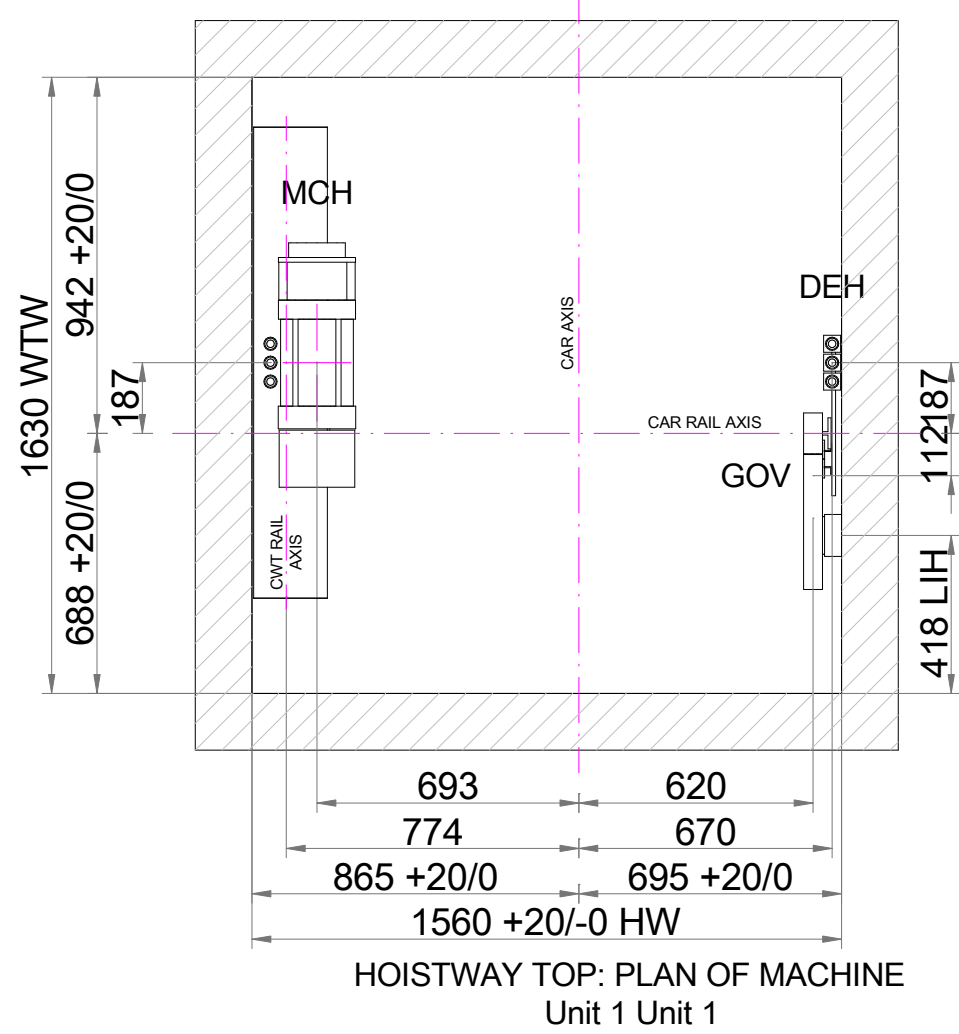
Unit Name		Unit 1
Unit Number		Unit 1
OP	[mm]	900
OPH	[mm]	2100
Weight	[kg]	125
Sill Bracket	Fixing	M12
	Load [kN]	2
Header Bracket	Fixing	M12
	Load [kN]	1
Side Bracket	Fixing	M6
	Load [kN]	0.5



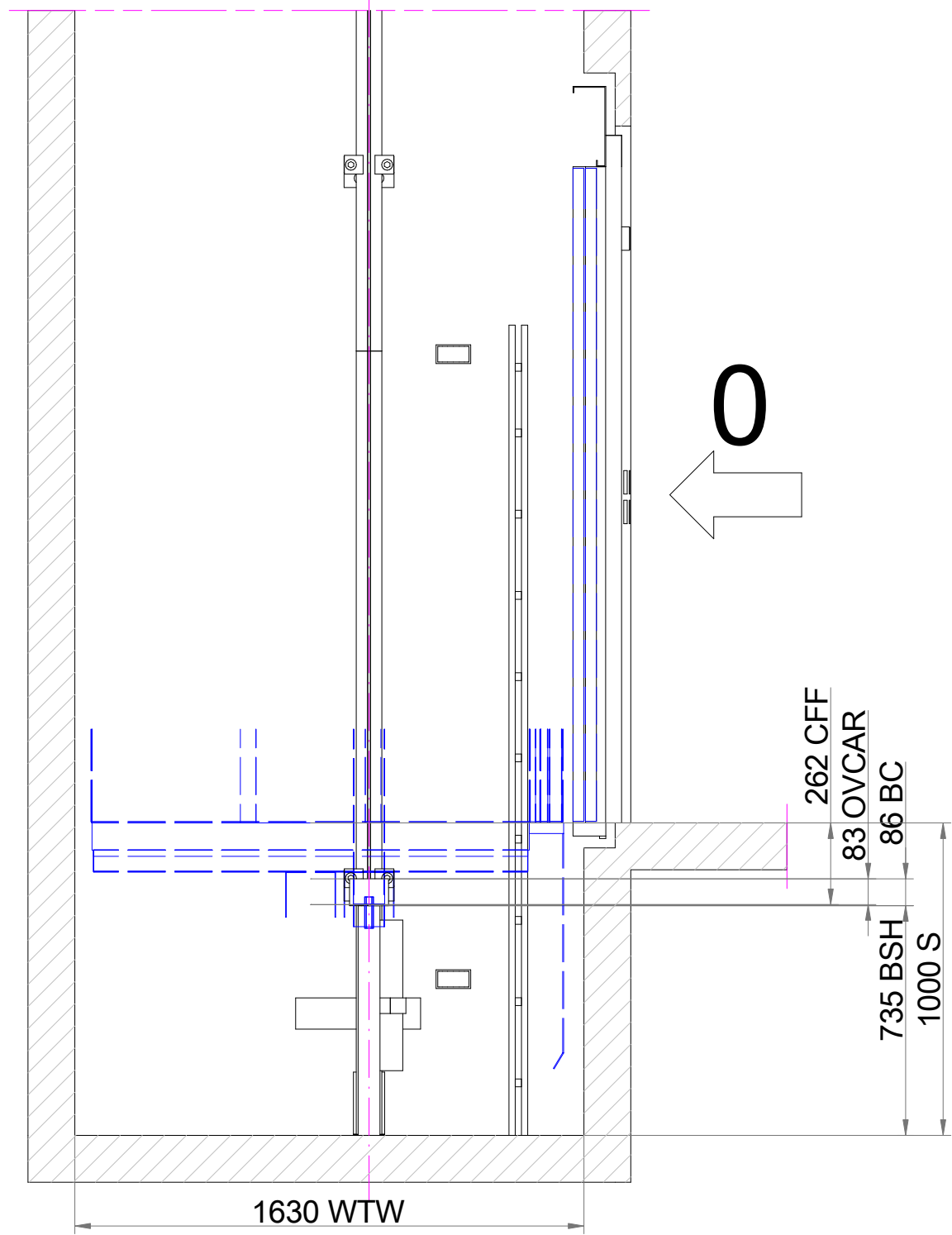
TOP OF HOISTWAY: DEAD END HITCH SIDE
Unit 1 Unit 1



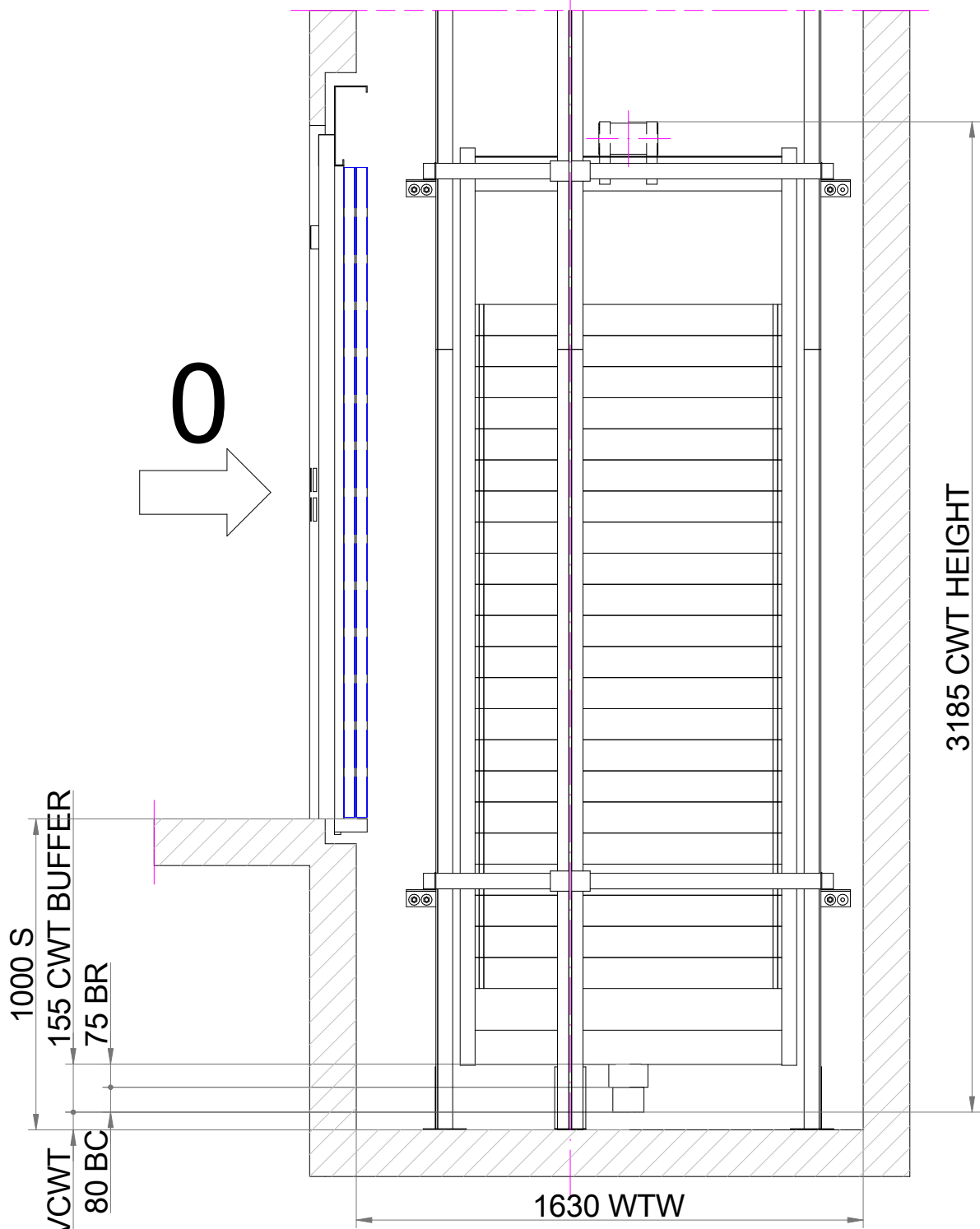
TOP OF HOISTWAY: MACHINE & COUNTERWEIGHT SIDE
Unit 1 Unit 1



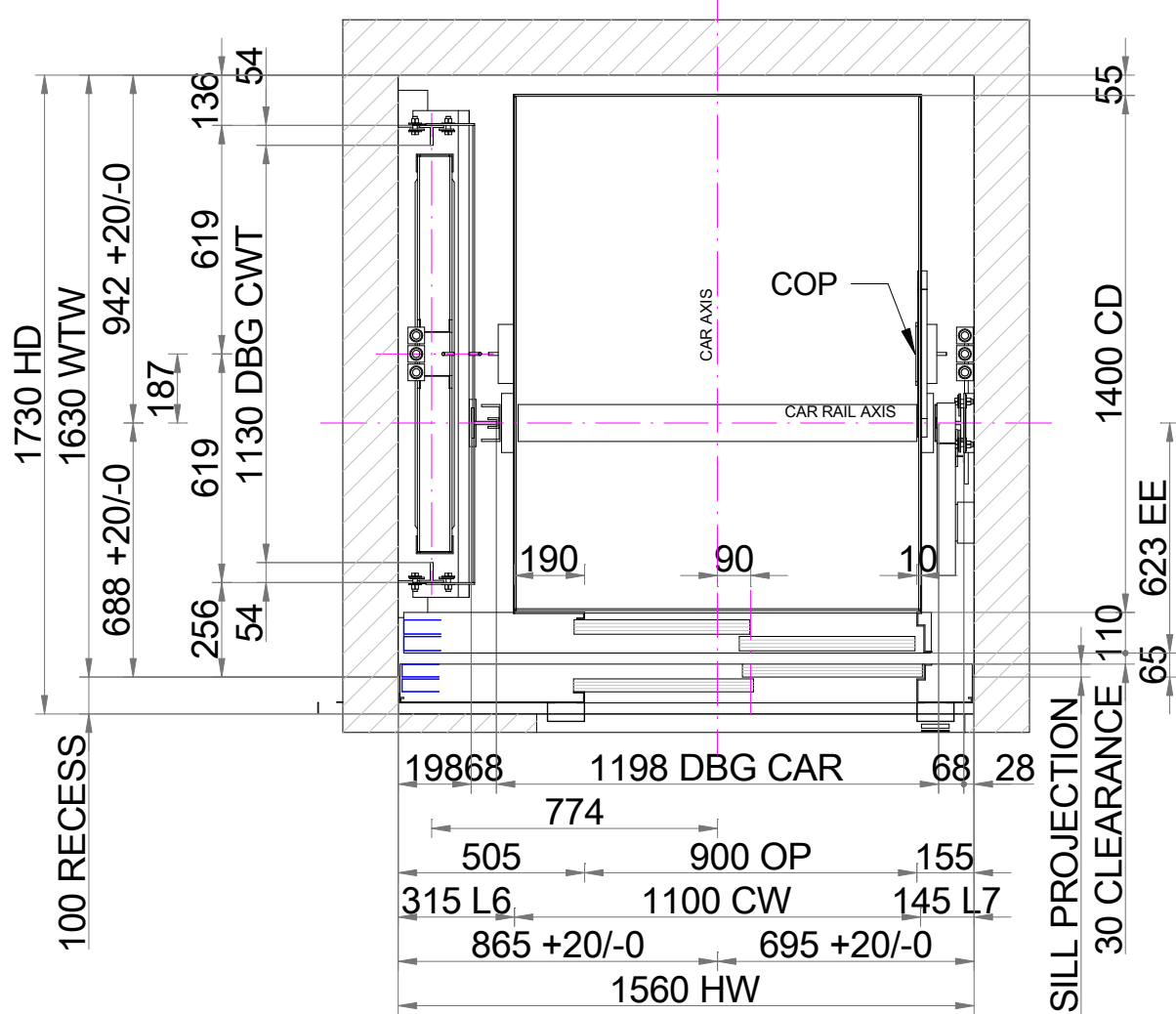
HOISTWAY TOP: PLAN OF MACHINE
Unit 1 Unit 1



HOISTWAY PIT: DEAD END HITCH SIDE
Unit 1 Unit 1



HOISTWAY PIT: MACHINE & COUNTERWEIGHT SIDE
Unit 1 Unit 1



FRONT: LEVELS SERVED 0,1,2,3,4
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
 - K - Overhead
 - OP - Opening Width
 - OPH - Opening Height
 - R - Rise
 - S - Pit
 - SO - Structural Opening
 - U - Hoistway Height
 - WTW - Wall To Wall

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Key

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

Notes

Location Plan

A	26-Nov-2024	TPD1 - Genesis	PM
Rev	Date	Comments	By

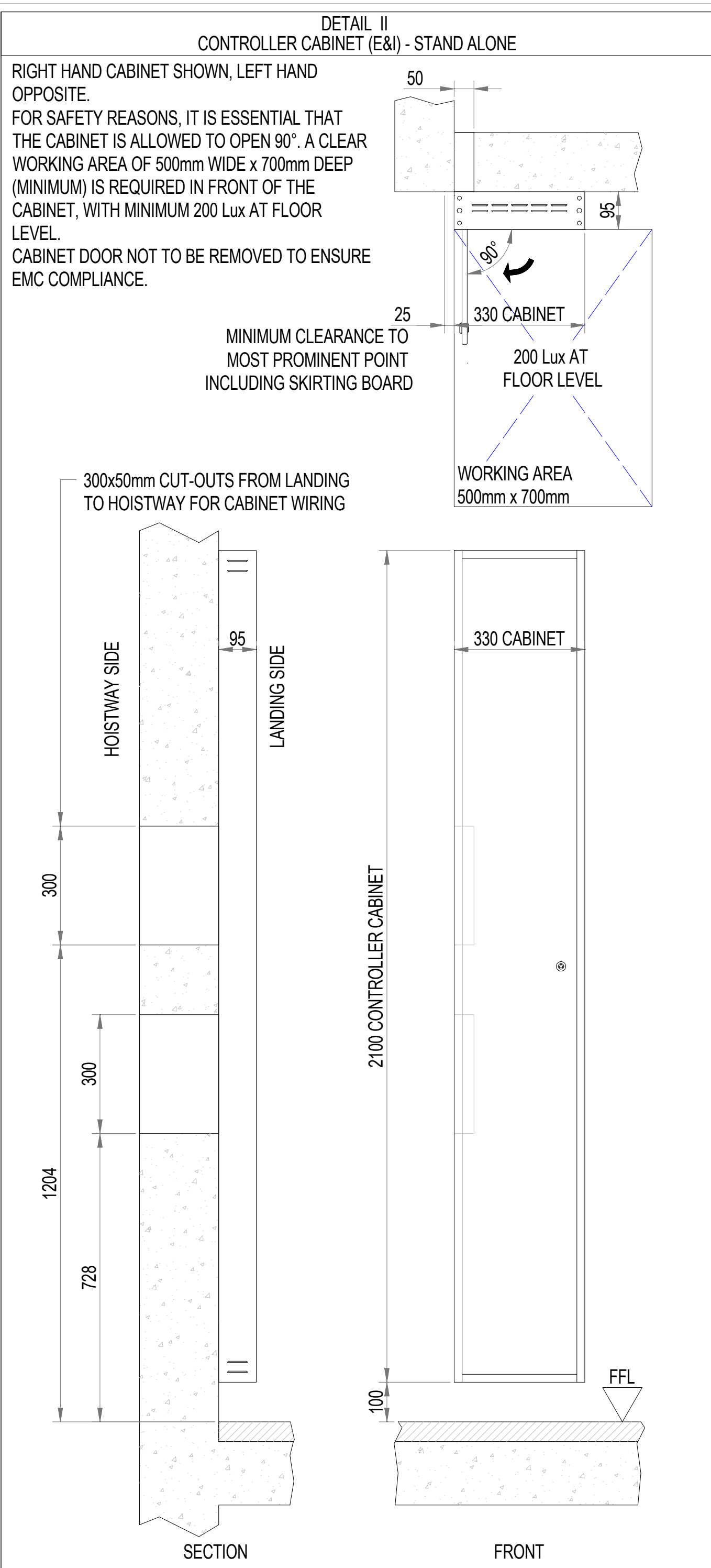
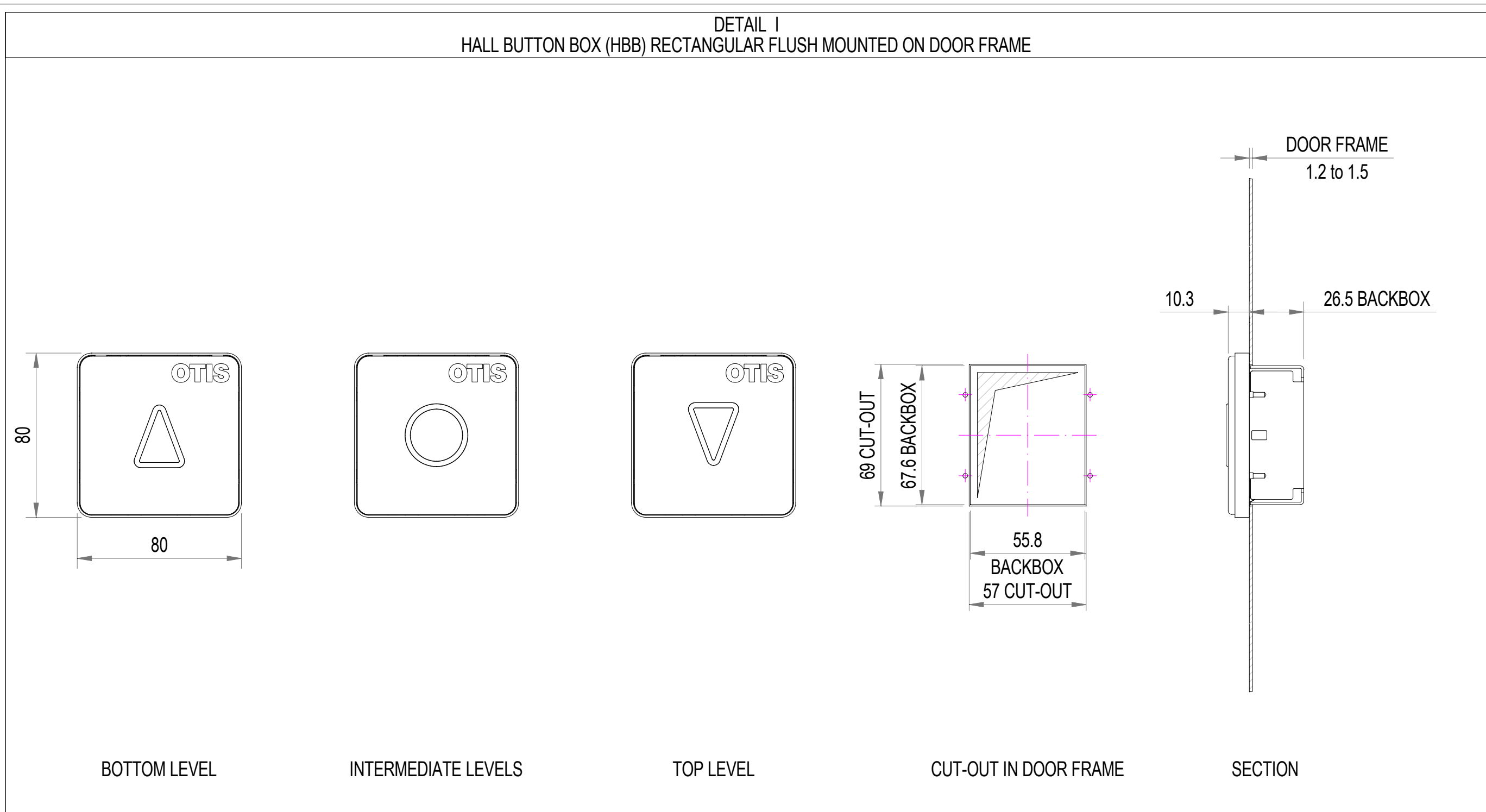


Project Name Plezalni center Ljubljana
Project NumberG9NEH277
Site Address Ljutomer

Owner
Contractor
Architect
Consultant

Group Name	TPD1 - Genesis			
Unit Name	Unit 1			
Unit Number	Unit 1			
Unit Type	Atrium			
Duty Load [kg]	630			
Speed [m/s]	1			
Floors [No]	5			
Door Name	PRIMAP TLD			
Counterw. Safety	No			

Drawing Purpose			
For Construction			
Drawing Title			
TPD1 - Genesis - Unit 1 INSTALLATION DETAILS			
Otis Drawing Number	Rev	Drawn	Checked
G9NEH277-01-03-04	A	PM	P. Maksimovic
Project Drawing Number			Scale @A1Sheet No
			N/A 4 of 6



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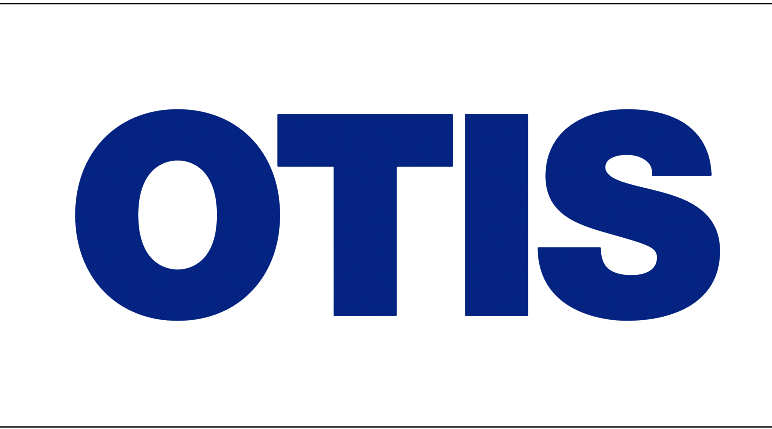
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Notes

Location Plan

A	26-Nov-2024	TPD1 - Genesis	PM
Rev	Date	Comments	By



Project Name Plezalni center Ljubljana
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Counterw. Safety	No			

Drawing Purpose For Construction			
Drawing Title TPD1 - Genesis - Unit 1 DETAILS			
Otis Drawing Number G9NEH277-01-03-05	Rev A	Drawn PM	Checked P. Maksimovic
Project Drawing Number .			Scale @A1Sheet No N/A 5 of 6

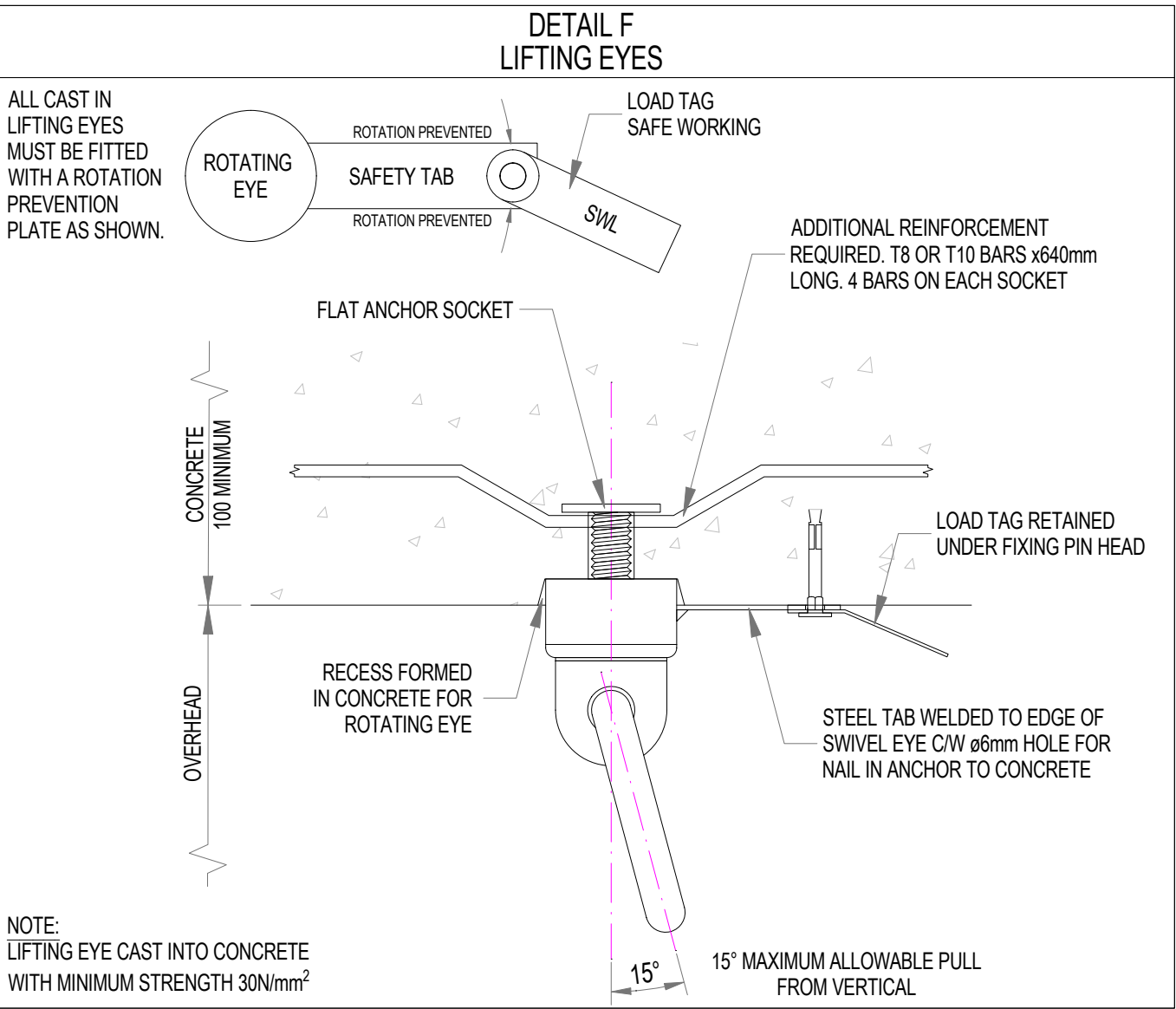
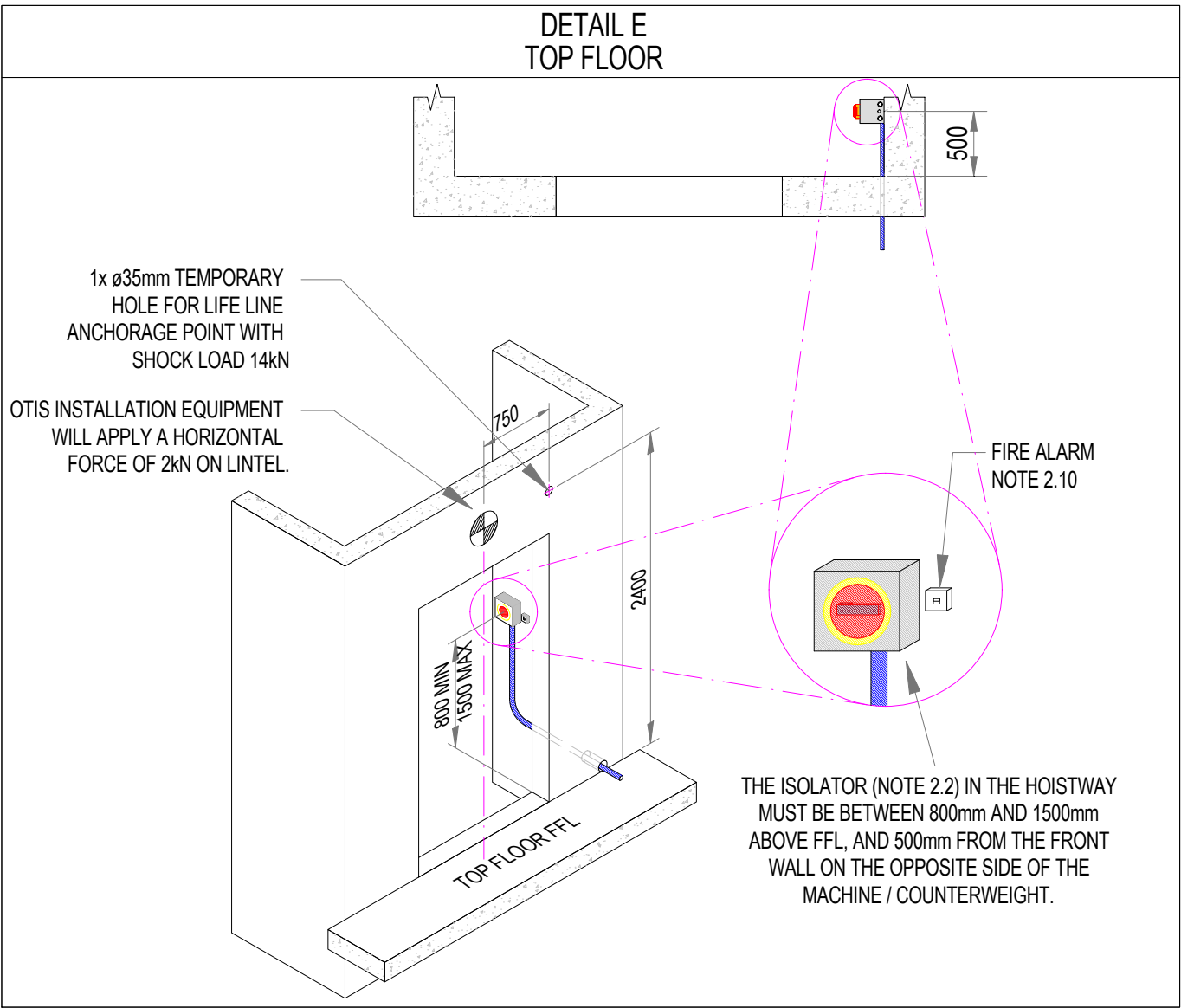
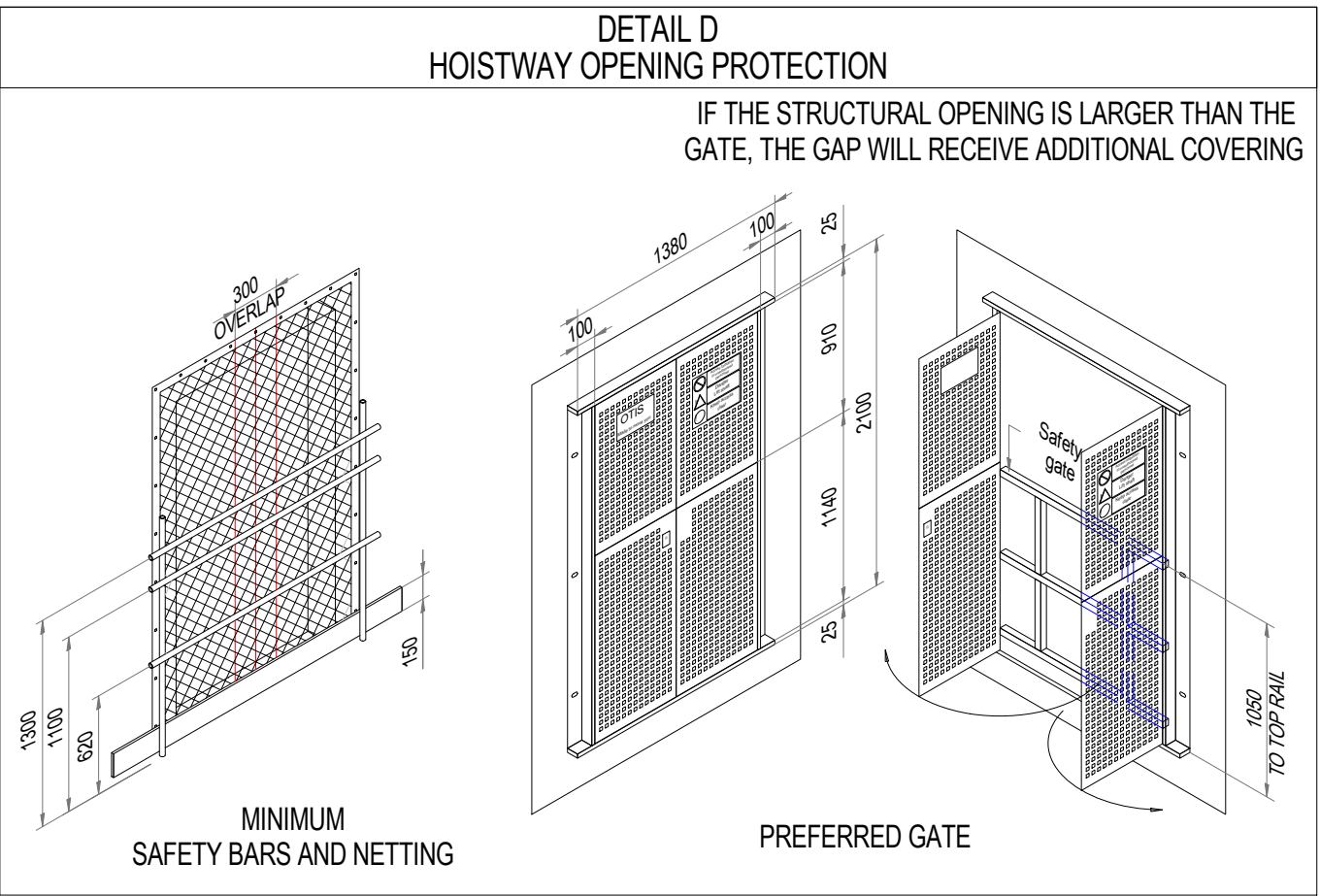
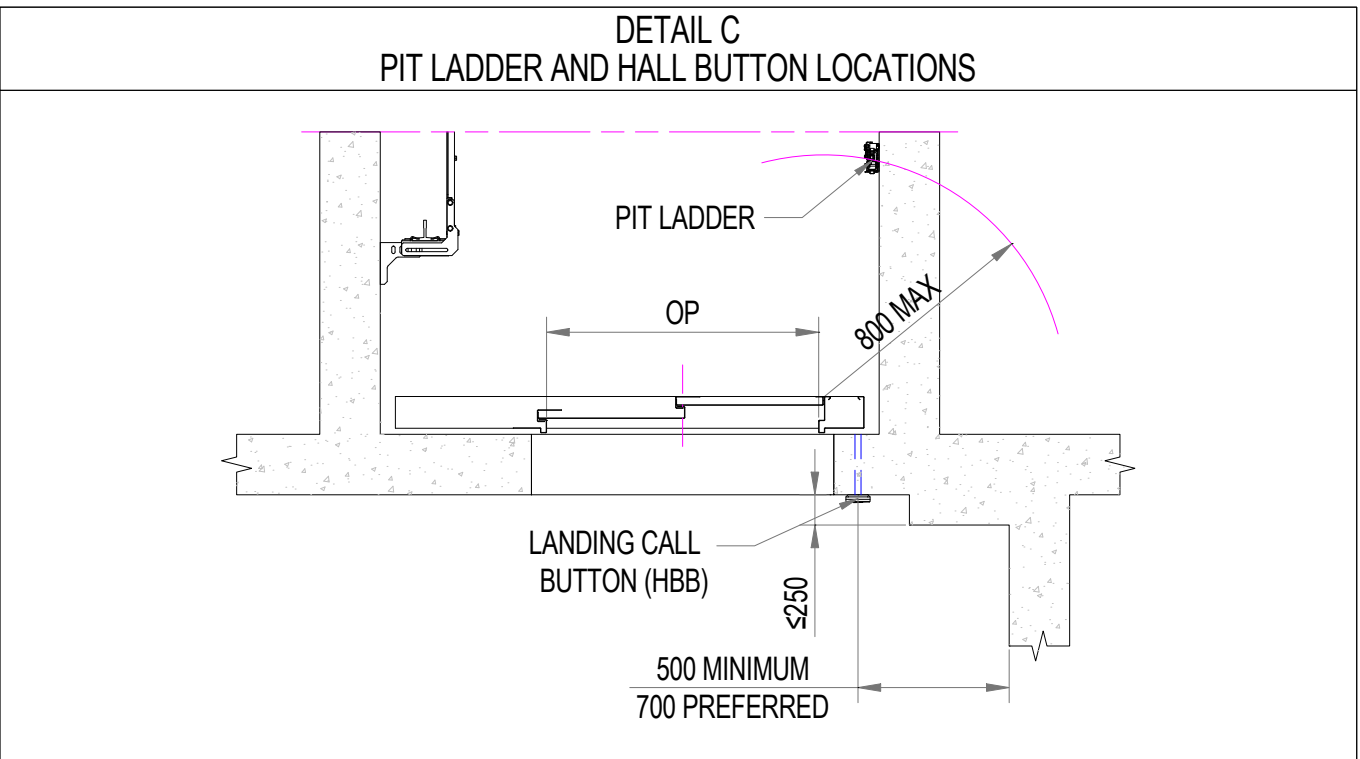
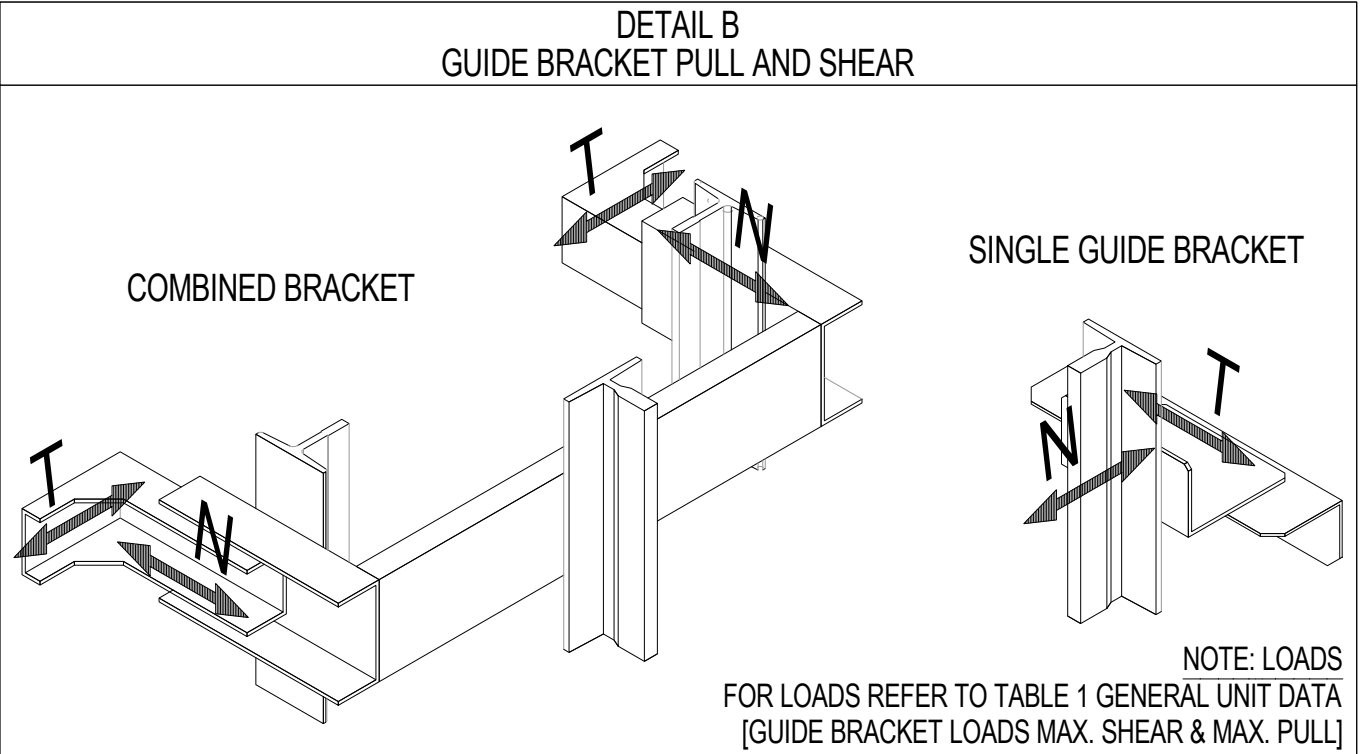
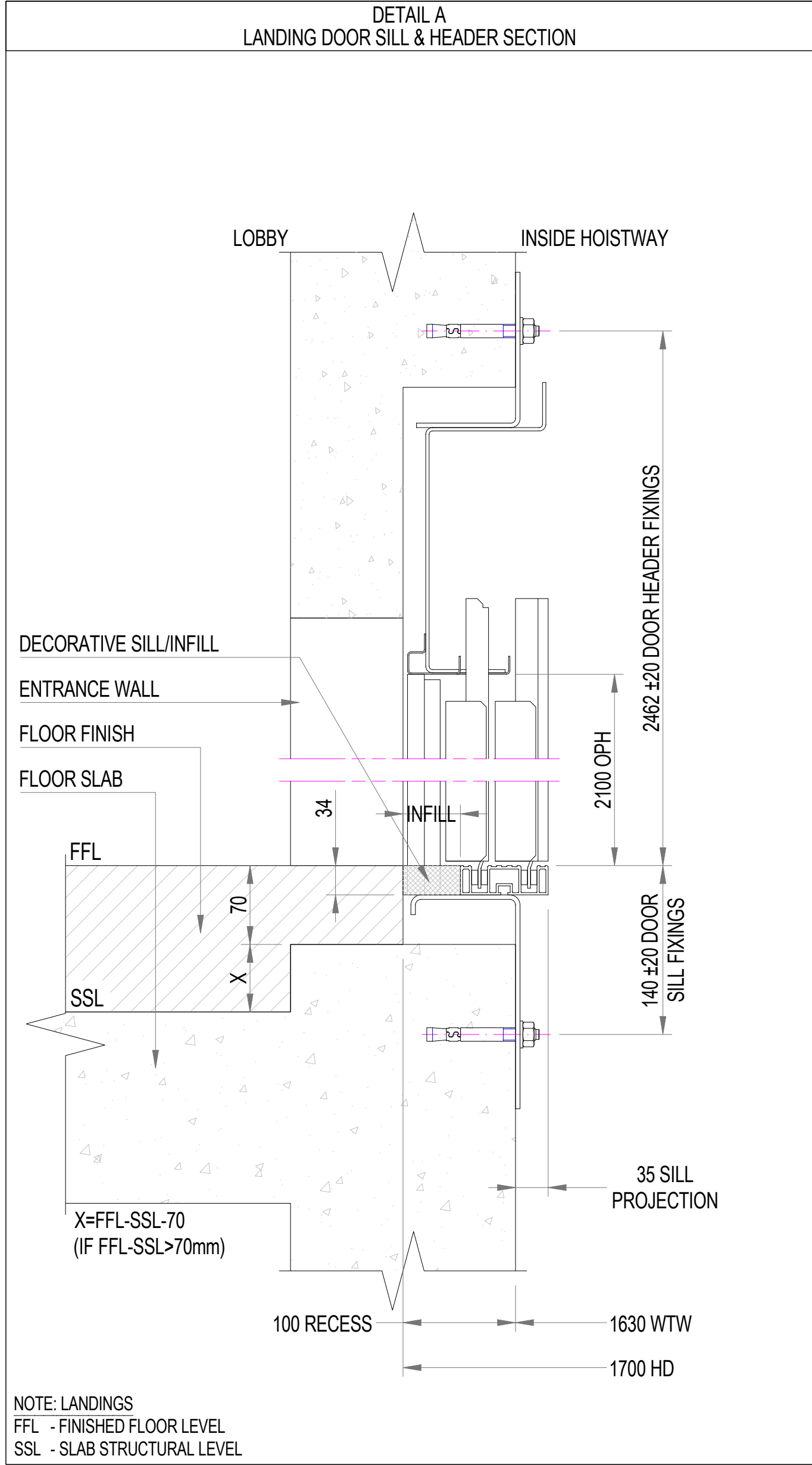
1	General and Safety Requirements "By Others"
1.1	Lighting of the landings in the vicinity of the landing doors shall be at least 50 lux at floor level, 200 lux in front of the E&I panel.
1.2	A dry, locked and protected storage space is to be provided adjacent to the lift hoistway.
1.3	Building regulation 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 a safety hole of Ø35mm on the top floor for life line safety harness anchorage point with shock load 14kN for work in hoistway, 2400mm above floor and 750mm from the door centre opposite of the machine / counterweight. (Detail E - Top Floor.)
1.6	Hoistway opening protection - suitable protection with minimum requirements as shown (Detail D - Hoistway opening 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. The area in front of the landing entrances is to be kept clear at all times.
1.7	The centre line of the landing call buttons should be at least 500mm (preferably 700mm) away from the corner of any adjacent wall in accordance with EN81-70. For a landing call button located in a recess, the recess can be no more than 250mm deep. (Detail C - Pit ladder and hall button locations.)
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. The supply shall have the capacity for the load detailed in Table 1 - General Unit Data [MOTOR POWER], with maximum dimensions as [ISOLATOR MAXIMUM DIMENSION]. All supply cables should be calculated in accordance with BS7671. Recommended isolator [ISOLATOR]: Type 1 = Eaton T3-4-15682/I2/SVB, Type 2 = Eaton TSB-3-8342/I4/SVB
- 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 E - 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 BS EN81-20.
- 2.8 Otis Remote Elevator Monitoring (REM) system gives a remote alarm system in accordance with BS EN 81-28, ensuring a two-way voice communication allowing permanent contact with a rescue service (by Otis).
- 2.9 Communication; GSM. 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.
- 2.10 Fire alarm signal (normally closed) to be next to isolator (Detail E - Top Floor) with 5m spare cable.

2.11 The E&I panel door is not to be removed to ensure EMC compliance.

3	Building and Hoistway Requirements "By Others"
3.1	Equipment 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.
3.2	Construction of hoistway including the entrance side walls. The lift hoistway must be able to withstand the applied loads as shown on drawings, Detail B, Table 1 - General Unit Data, and fixings sheet for the door fixing loadings. The builder shall do the necessary checks to ensure the lift construction is suitable for these loadings. The minimum requirements for wall thickness and material are listed below. They can only be used if approved by the builder and higher grades or thicker walls may be necessary, depending on the building and the lift. 3.2.1 140mm thick c35 reinforced concrete. 3.2.2 140mm thick high density non-aerated blocks with a minimum strength of 10N/mm². This option is only available for units with a duty load lower than 2000kg, and only with pre-approval from Otis. 3.2.3 Steel structure suitable for the shown loads, with particular emphasis on the 2mm deflection requirement (3.4), which is typically the most stringent requirement. The steel structure shall be equipped with plates and slots to attach Otis's guide brackets and door fixations in lieu of a flat concrete wall. Minimum profile size for door fixation is U120x60 channel. Suitable fire protection shall be installed where a solid wall is missing.
3.3	Tolerances 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: fascias, post-cut concrete, additional secondary steel work.
3.4	Deflection 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 as stated in Table 1 - General Unit Data, and Detail A - Guide bracket pull and shear.
3.5	The reaction shown in Table 1 - General Unit Data. Values N and T act on guide rail bracket fixings, and can act on any fixing in any direction (N = push or pull, T = left or right). The single guide bracket typically has the largest loading on its two fixings, with N acting on both fixings - one in compression and the other in tension. T acts on both fixings in the same direction. The combination bracket can be assumed to have each of these loads spread over two fixings on each side. All loads are inclusive of load factors from BS EN81-20 covering emergency scenarios and can be classed as accidental. Distance between slab structural level (SSL) and finished floor level (FFL).
3.6	If the distance between SSL and FFL is greater than allowed, an upstand will be required at the landing to ensure safe mounting of door sill. See Detail A - Landing door sill & header section.
3.7	Establish a permanent datum line on the inside of the lift hoistway at all levels, from which the finished floor level (FFL) can be established.
3.8	Establish a permanent gridline on the hoistway pit floor.
3.9	Grout in all frames and sills to Otis requirements and finish floor up to door sills.
3.10	The structural opening at the access floor level may need to be larger than typical, to allow for the introduction of the car platform and associated equipment into the hoistway (see Detail N - Structural opening at access floor level). This enlarged opening is to be built up to the typical structural opening dimensions following the installation of the car platform. Drill and Fix - Hilti type anchors: hsa x 100mm long (by Otis).
3.11	Blockwork - if blockwork is to be used the distance from edge of the block fixing point should be minimum 100mm.
3.12	Pit 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.
3.13	All holes, penetrations and cut-outs according to Otis requirements.
3.14	The fire rating of the lift landing doors follows BS EN81-58, tested according to Annex B. Shaft front construction to comply to minimum requirements.
3.15	

Table 1 - General Unit Data										VERSION UK 2024/08				
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	1560							-	-	-	-	-
HOISTWAY DEPTH	HD	mm	1700							-	-	-	-	-
HOISTWAY WALL TO WALL	WTW	mm	1630							-	-	-	-	-
OVERHEAD	K	mm	3400							-	-	-	-	-
PIT	S	mm	1000							-	-	-	-	-
RISE	R	m	13.7							-	-	-	-	-
CAR ENTRANCES	NBENT	-	1(NBENT)							-	-	-	-	-
STOPS	N	-	5							-	-	-	-	-
OPENINGS	NBLD	-								-	-	-	-	-
DOOR OPENING WIDTH	OP	mm	900							-	-	-	-	-
DOOR OPENING HEIGHT	OPH	mm	2100							-	-	-	-	-
DOOR	DOOR	-	TLD							-	-	-	-	-
DOOR TYPE	DOTYP	-	PRIMAP							-	-	-	-	-
DOOR FRAME	DF	-	MRF100							-	-	-	-	-
COUNTERWEIGHT SAFETY	CWT	-	No							-	-	-	-	-
FIREFIGHTER LIFT	FF	-	No							-	-	-	-	-
PHASE	PH	-	3-Phase							-	-	-	-	-
VOLTAGE	VOLT	vAC	400							-	-	-	-	-
FREQUENCY	FREQ	Hz	50							-	-	-	-	-
STARTING CURRENT (MOTOR)	Is	A	10.2							-	-	-	-	-
FULL LOAD CURRENT (MOTOR)	In	A	7.5							-	-	-	-	-
STARTING CURRENT (LIGHTING)	Is_Lighting	A	6							-	-	-	-	-
FULL LOAD CURRENT (LIGHTING)	In_Lighting	A	6							-	-	-	-	-
OVERLOAD FUSE	Fuse	A	16							-	-	-	-	-
MOTOR POWER	PowerKW	kW	4.2							-	-	-	-	-
MAX. REGENERATED POWER	RegenKW	kW								-	-	-	-	-
HEAT RELEASE	HR	kJ/s	0.6958							-	-	-	-	-
ISOLATOR	NOTE 2.2	-	Type 1							-	-	-	-	-
ISOLATOR MAXIMUM DIMENSION (WxDxH)	-	mm	100x181x135							-	-	-	-	-
COMMUNICATION	NOTE 2.9	COM	BT							-	-	-	-	-
DESIGN	D	-								-	-	-	-	-
GUIDE BRACKET FIXING BOLT SIZE	Ø	mm	M12							-	-	-	-	-
GUIDE BRACKET LOADS MAX. SHEAR	NOTE 3.5	T	kN	1.64						-	-	-	-	-
GUIDE BRACKET LOADS MAX. PULL	NOTE 3.5	N	kN	0.73						-	-	-	-	-
NUMBER OF LIFTING EYES	EYES	-								-	-	-	-	-



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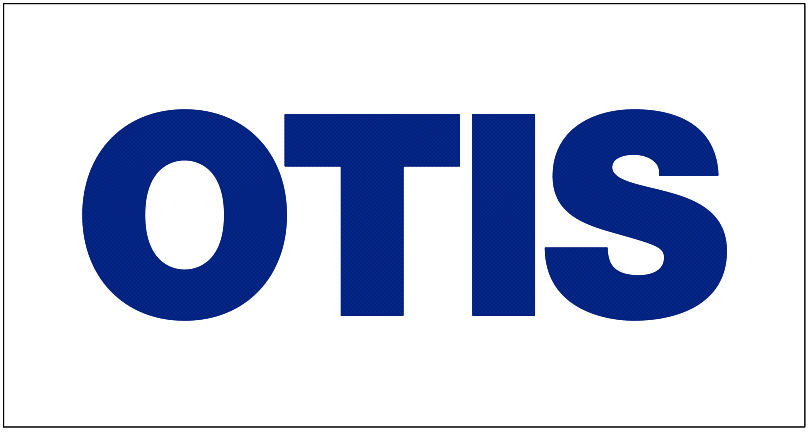
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A	26-Nov-2024	TPD1 - Genesis	PM
Rev	Date	Comments	By



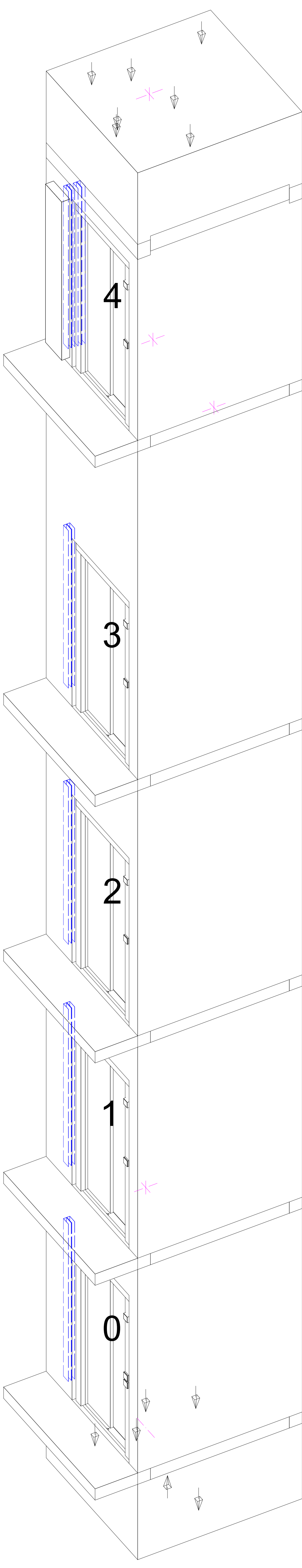
Project Name Plezalni center Ljubljana
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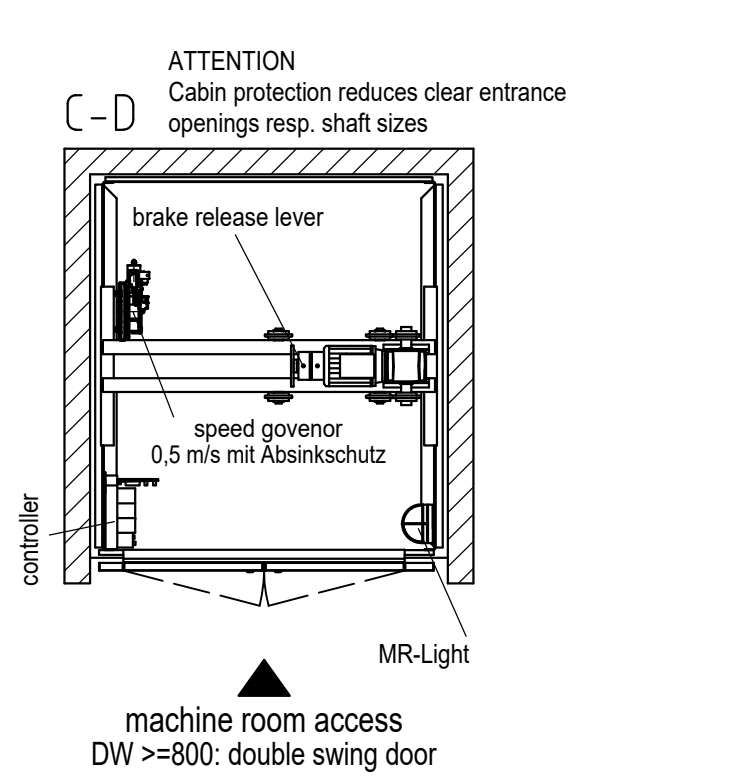
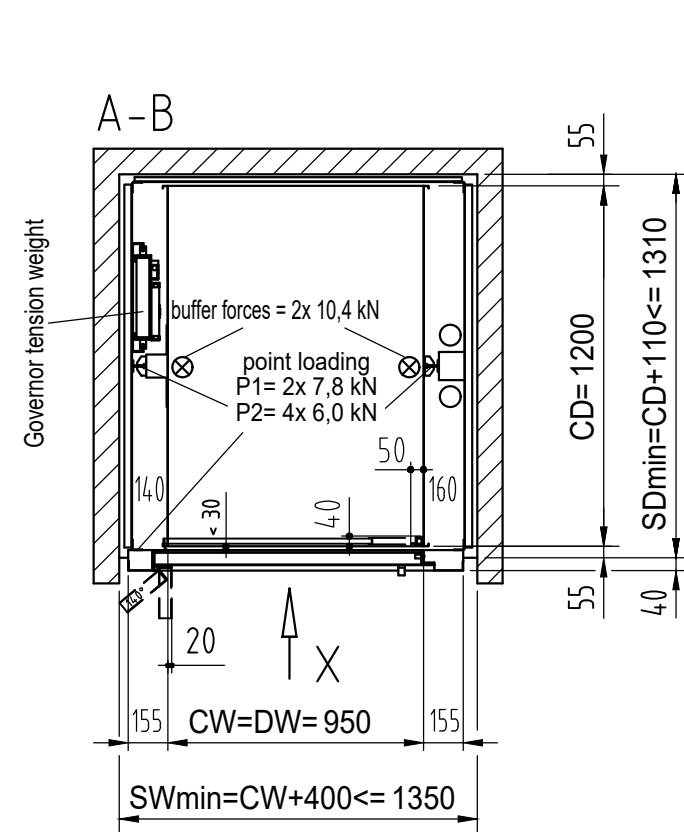
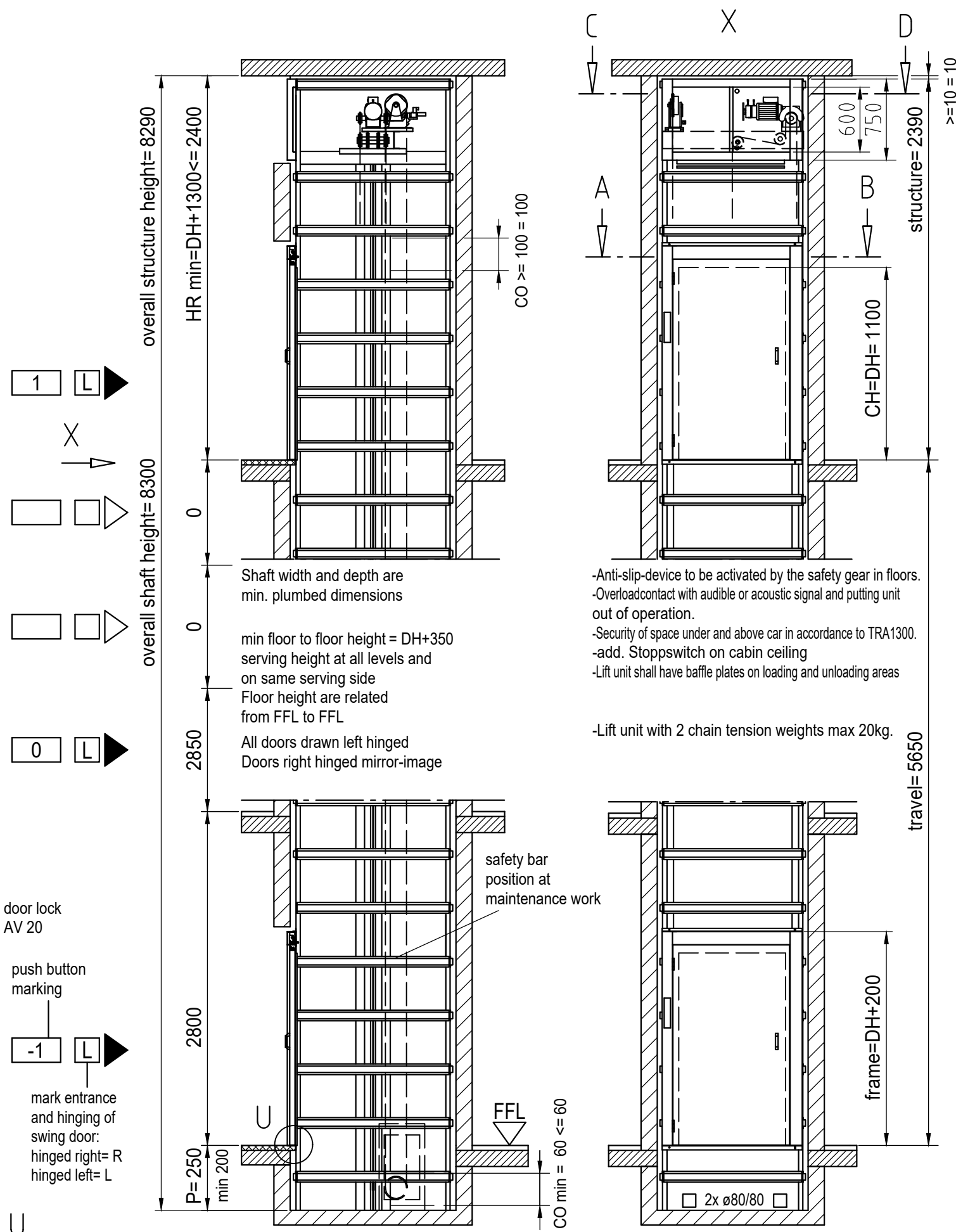
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G9NEH277-01-03-06	A	PM	P. Maksimovic
Project Drawing Number			Scale @A1Sheet No
			N/A 6 of 6





increments 100mm
800 - 1000mm
1100 - 1500mm
1200 - 2000mm

CW= car width
CD= car depth
CH= car height
DW= door width
DH= door height
Landing call latching
SW= Shaft width
SD= Shaft depth
HR= Headroom clear
FFL= Finished floor level
CO1= 1/2 top car overrun 1/2 safety space
CO2= lower car overrun
P1= catch forces
P2= Static loads on shaft floor for each corner profile
All guide rails cold rolled
All dimensions in "mm", drawing w/o scale
Service lift code Richtlinie 2006/42/EG
landing doors DIN 18090-92

SKG ISO MAX Frontloading with safety gear				OTIS SLO	
Load limit:	300 kg	Car weight:	220 kg	Site:	PLEZALNI CENTER
Speed:	0,1 m/s	Ballanceweight:			MT1
Stops:	3	Susp. chain	2x 5/8 x 3/8 R		
Entrance:	3	Drive:	GfC 45.24-2B	Order-No.:	Country code:
Electr. supply:	3x400V, 50Hz	Circuit diag.:		Ident-No.:	SI
Car:	st/st 1.4016 K240	Doors:	st/st 1.4016 K240	SKG-No.:	
Remarks: machine room door st/st 1.4016 with profile cylindre lock, reinforced drop bar with contact, key switch: switch off push buttons (with profile cylindre) each floor shaft illumination, cabin light, access ladder, engraving					
TR-Tür Edelst. 1.4016 mit Riegelschloss, Schranke verstärkt mit Kontakt					
Schlüsselschalter: Abschalten Bedientableau (mit Profilzylinder) in allen Etagen				Change by:	Date: Name:
Schachtbeleuchtung, FK-Beleuchtung, Leiter, Gravur				Date: 02.12.24	
				Name: J.Löwenberg	
				AU:24.02.16 SKG-TYP L30-00210	Draw.-No.: 703336-1