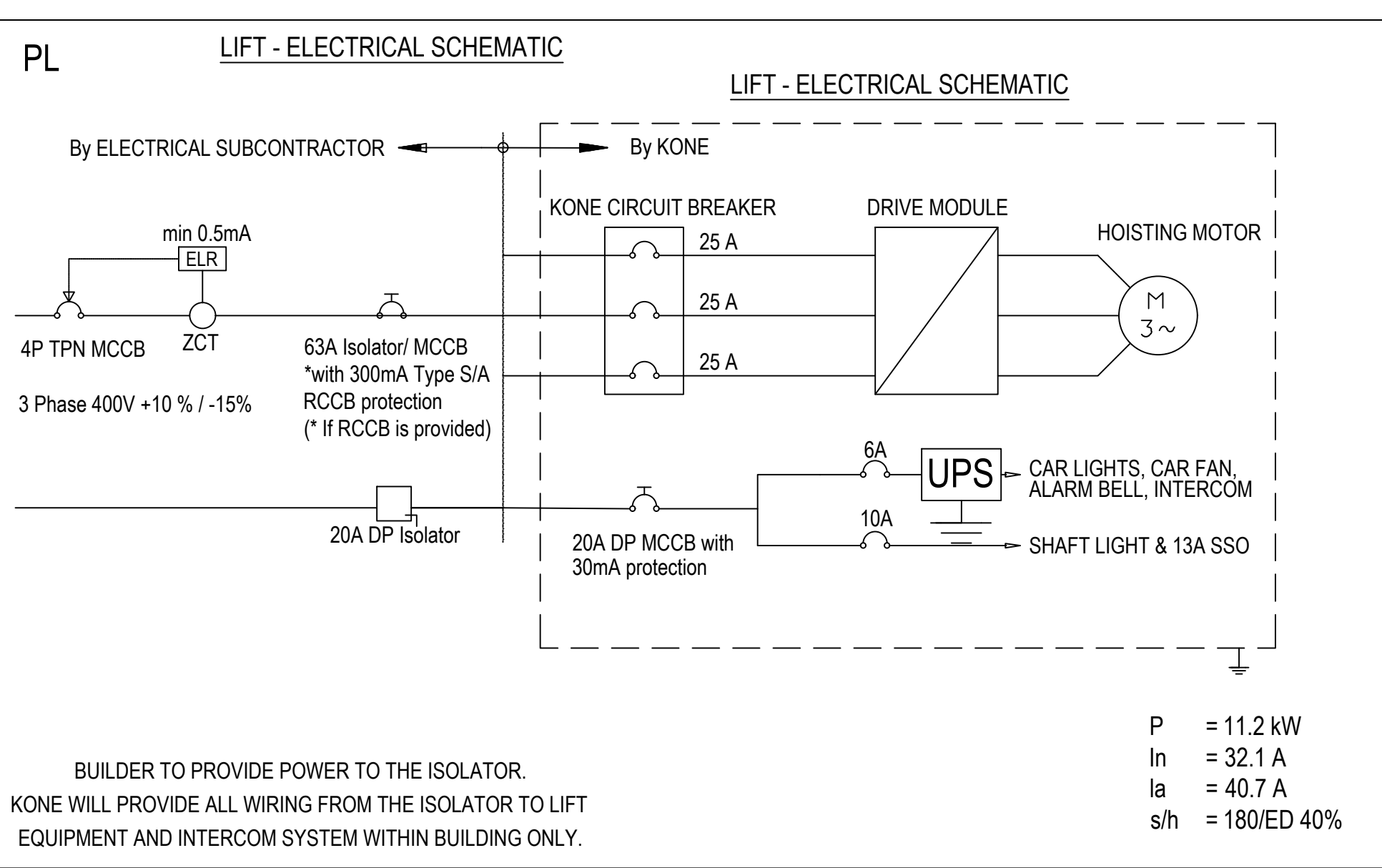


TECHNICAL SPECIFICATION FOR ELEVATOR (R21.2)	PL
Equipment Number	44967278
Project name	Dieppe Barracks at Sembawang Road
Safety code	SS550-2020
KONE product type	PW15/16-19 NMonoSpace
Rated load	1150 kg
Number of persons	15
Rated speed	1.60 m/s
Acceleration/deceleration rate	0.5 m/s²
Travel	9975 mm
No. of floors/No. of stops	3/3 (1, 2, 3)
Car entrances	1
LandingDoor type	High duty (N1)
Door width	1000 mm (2PCO)
Door height	2100 mm
Car type	HMC(Flexible)
Car internal height	2500 mm
Car internal width	1600 mm
Car internal depth	1550 mm
Car area	2.48 m²
Car guide rails	T89-1/B
Car buffers	CYOB47/207
Car Deco Allowance	300 kg
Counterweight sling	CWF11PWS
Counterweight guide rails	HG65-2.0
Counterweight buffers	CYOB47/207
Drive system	KDM40
Control system	KCE
Machine	NMX11
Traction sheave diameter	420 mm
Undercut angle	85°
Roping arrangement	2:1
Suspension ropes (no x D)	6xd8
Overspeed governor(Car)	OL35
Overspeed governor rope(Car)	d6
Car mass (K)+Car sling mass (T)	1045 kg
Car balancing factor	50%
ELECTRICAL REQUIREMENTS	
Main supply voltage	3x400Vac +10%/-15%
Frequency	50 Hz ± 1Hz
3 Phase Isolator/MCCB	63 A
Single Phase Isolator	25 A
Nominal line current (In)	32.1 A
Max. RMS acceleration line current (Ia)	40.7 A
Thermal losses in machine room	1.11 kW
Motor output power at nominal load	11.2 kW
Motor RPM at full speed	145.5 rpm
Maximum start/hour	180/ED40%
Note: Riser fuses; by electrical sub-contractor Riser fuses for separate lighting: by electrical sub-contractor	
Hoisting Rope Type	ROPE, D8MM 6nosX 19s + NF
No. of rope	6
Diameter	8
Max. Tensile Strength	28.1 kN

REMARK : 1.ENSURE AMBIENT TEMPERATURE IN LIFT WELL & LIFT MOTOR ROOM CONSTRUCTED BY BUILDERS DOES NOT EXCEED 38°C & MAX. HUMIDITY NO MORE THAN 95% 2.REACTION FORCES IN PIT SHOWN ON THE DRAWING MUST BE FULFILLED. IF THERE IS ANY SPACE THAT PEOPLE CAN ACCESS UNDER THE PIT, COUNTER WEIGHT (CWT) SAFETY MUST BE PROVIDED 3.CUTOUT HEIGHT OF LANDING DOOR IS BASED ON LIFT LOBBY FINISHED FLOOR LEVEL. 4.NOMINAL POWER MAIN SUPPLY IS TNS TYPE. 5.EMERGENCY ACCESS DOORS ARE REQUIRED IF LIFT CONSECUTIVE LANDING SILLS ARE >11M APART. HOWEVER THIS 11M CAN BE EXTENDED TO MAX 18M IF RESCUE HOOKS ARE PROVIDED AS PER CLAUSE 5.2.3.5 IN SS550:2020
BUILDER REQUIREMENTS  VENTILATION IN LIFT WELL & MACHINE ROOM  AMBIENT TEMPERATURE MUST NOT EXCEED 38°C HUMIDITY: 95% MAX.  RECOMMENDED MINIMUM FOR WELL VENTILATION  OPENINGS AREA AT TOP OF THE WELL IS MIN. 1% OF THE HORIZONTAL SECTION OF THE WELL AND NOT LESS THAN 0.1m2 FOR EACH LIFT WELL  REQUIREMENTS FOR WELL  MATERIAL RC CONCRETE MINIMUM WALL THICKNESS 150 mm
THE FIVE SITE ABSOLUTES 1. The elevator well is clean and dry before installation work starts. 2. The well is constructed according to KONE layout drawings and the well openings are sealed for safety. 3. The lifting eyes and the ventilation ducts specified by KONE are in place. 4. 3-phase power supply for elevator and installation hoisting is provided. 5. A 30m. sq. storage space is provided on the ground floor close to the well and the access ways to the well are clear.

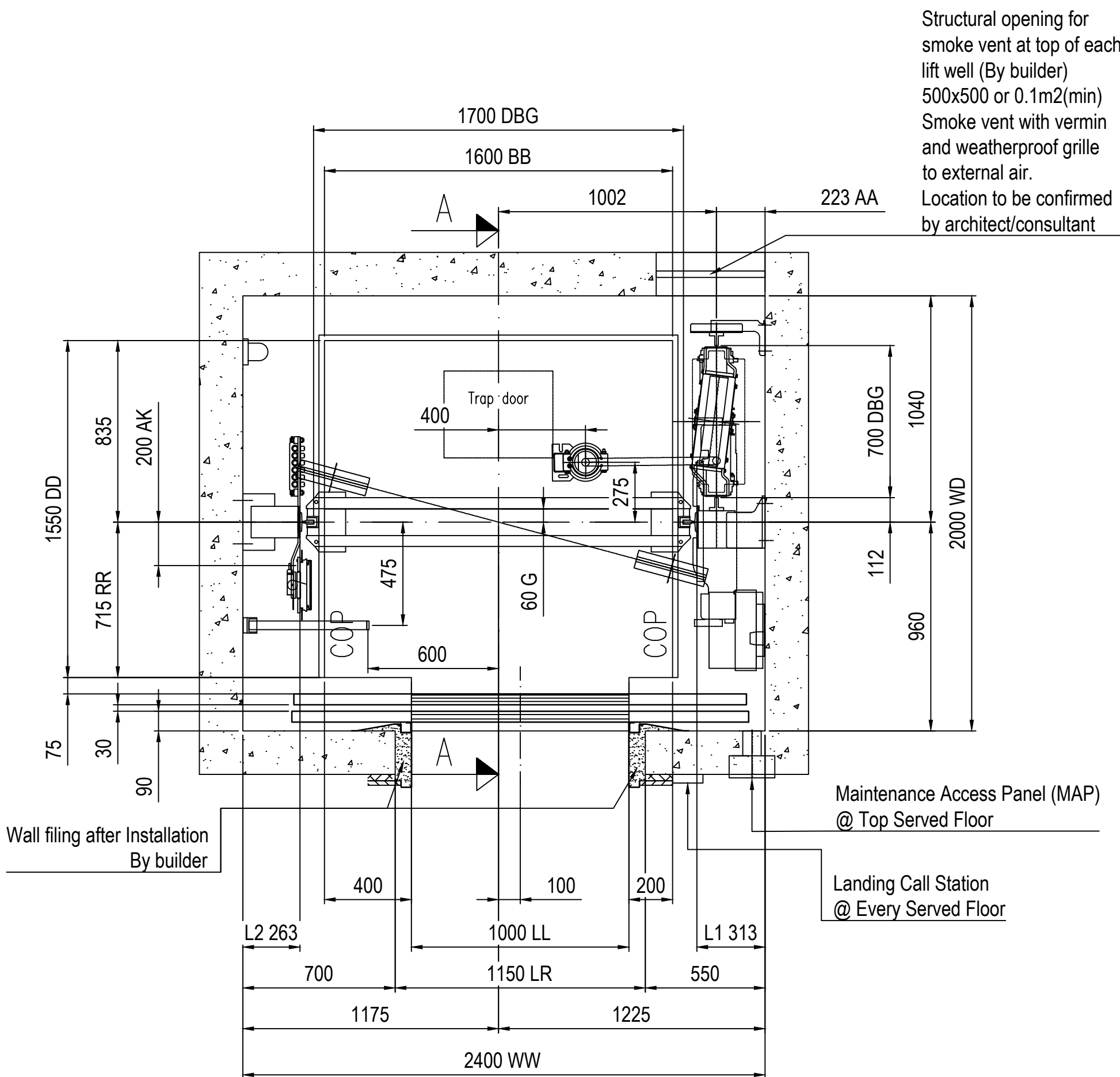


LEGENDS AND SYMBOLS :			
BB	Car inside width	ICW	Internal Clear Width
CH	Car clear height	LCE	KONE Lift Controlled
COP	Car Operating Panel	LCI	Landing Call Station with Indicator
CWT	Counterweight	LCS	Landing Call Station
DBG	Distance between guides	LL	Clear door opening width
DD	Car inside depth	LP	Reservation for car interior finishes
FCL	Finished Ceiling Level	LR	Structural opening width
FFL	Finished Floor Level	MAP	Maintenance Access Panel
GMCD	Global Machine CAD Design	MCD	Machine CAD Design
H	Reservation for car ceiling	PH	Pit Depth
HH	Clear door opening height	SH	Headroom height
HI	Hall Indicator	SS	Car Finished flooring
HL	Hall Lantern	UF	Car raw floor
HR	Structural opening height	WD	Shaft Depth
HT	Counter weight frame height	WW	Shaft width
ICD	Internal Clear Depth		
<u>ELECTRICAL SYMBOL LEGEND :</u>		<u>LIFT SYMBOL LEGEND :</u>	
	GROUND		PIT LADDER
	CIRCUIT BREAKER		SHAFT BUNDLE
	RESIDUAL CURRENT CIRCUIT BREAKER (RCCB)		SHAFT LIGHT
	THREE PHASE LIFT MOTOR		
	13A SWITCH SOCKET OUTLET (ONE GANG)		
	FUSE		
	MAKE CONTACT		
	ISOLATOR		
	PHASE		

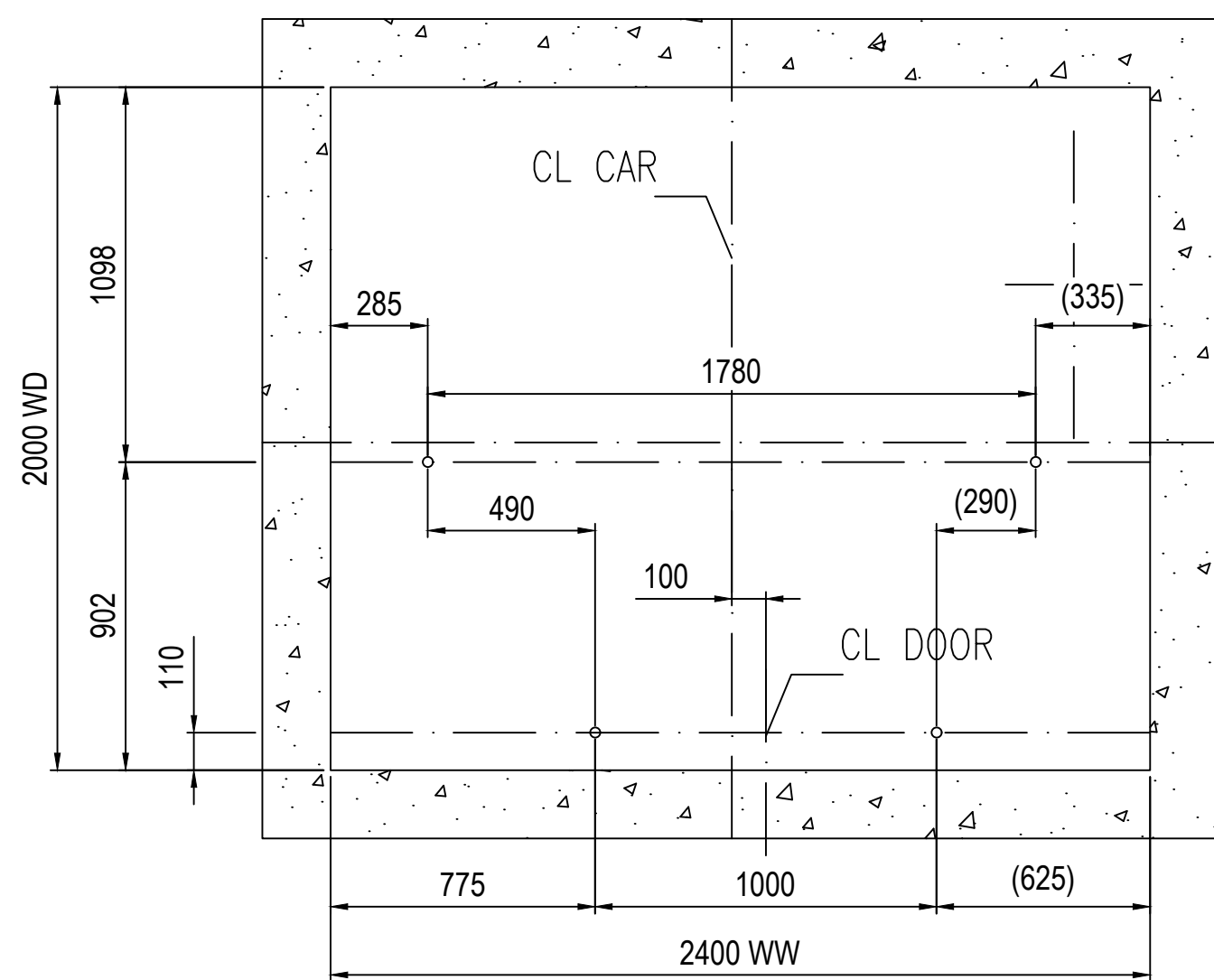
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<b>PdC Consultants Pte Ltd</b>	
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AS-BUILT DRAWING																		
Project Ref. No. : A2105-00599-2022																		
<div> Defence Science &amp; Technology Agency</div> <div></div> <div>PEH SEOH CHIN HCD (Army Camps)</div> <div>EDMUND TEO KUAN WEI Senior Programme Manager</div> <div>D&amp;B Main Contractor: <b>DEENN ENGINEERING PTE LTD</b> 29 Harrison Road, Lian Beng Building, Singapore 369648 TEL. No 6283 1468 FAX No. 6280 9360 e-mail : lianbengconstrn@pacific.net.sg Website: www.lianbeng.com.sg</div> <div>Architect: <b>ID ARCHITECTS PTE LTD</b> 3 HarbourFront Place, #03-01, HarbourFront Tower Two, Singapore 099254 Tel: 6225 9011 Fax: 6225 6022 general@idarchitects.com.sg www.idarchitects.com.sg</div> <div>Structure: <b>TW-Asia Consultants Pte Ltd</b> NO. 28 SIN MING LANE #04-137 MIDVIEW CITY SINGAPORE 573972 TEL : 62916292 FAX : 62932196</div> <div>M&amp;E Consultant: <b>PdC Consultants Pte Ltd</b> MECHANICAL + ELECTRICAL 23 New Industrial Road #06-03 Solstice Business Center Singapore 536209 t : 6444 7748 f: 6444 7141 e: contact@pdccngrs.com</div> <div>Sub Contractor: <b>KONE PTE LTD</b> Elevators Escalators 30A Kallang Place #14-01 Singapore 339213 Tel: 6424 6246 Fax: 6424 6346</div> <div>Project No.: D2019-00162</div> <div>Project Title: PROPOSED ADDITIONS OF 1 BLOCK OF 3-STOREY OFFICE BUILDING BLK 2, 1 BLOCK OF 6-STOREY ACCOMMODATION BUILDING BLK 3 (11), 1 BLOCK OF 4-STOREY ACCOMMODATION BUILDING BLK 4 (10), 1 BLOCK OF 2-STOREY TRAINING MULTIPLEX BLK 9 (6), 1 BLOCK OF MSVS BLK 10 (9), AND ANCILLARY FACILITIES BLK 5, 6(4) &amp; 8 TO EXISTING DIEPPE BARRACK ON LOT 05019M MK13 AT SEMBAWANG ROAD (MANDAI PLANNING AREA)</div> <div>Drawing title: <b>PL</b> Technical Specifications</div> <table><tr><td></td><td>Initial</td><td>Date</td><td>Scale</td><td>AS SHOWN</td></tr><tr><td>Drawn</td><td>LISS</td><td>16 SEP 2022</td><td></td><td></td></tr><tr><td>Checked</td><td>YIN</td><td>16 SEP 2022</td><td>Software</td><td>CAD</td></tr></table> <div>Drawing no.: <b>D2019-00162/KN/BLK2/PL1/001</b></div> <div>Revision no.: <b>0</b></div> <div>THIS DRAWING IS THE PROPERTY OF DSTA. IF FOUND, PLEASE RETURN TO DSTA BUILDING AND INFRASTRUCTURE PROGRAMME CENTRE, 1 DEPOT ROAD, SINGAPORE 109679. REPRODUCTION OF DRAWING WITHOUT THE WRITTEN PERMISSION OF DSTA BI IS STRICTLY PROHIBITED. ANY UNAUTHORIZED REPRODUCTION OR POSSESSION SHALL BE DEALT WITH UNDER THE OFFICIAL SECRETS ACT.</div>					Initial	Date	Scale	AS SHOWN	Drawn	LISS	16 SEP 2022			Checked	YIN	16 SEP 2022	Software	CAD
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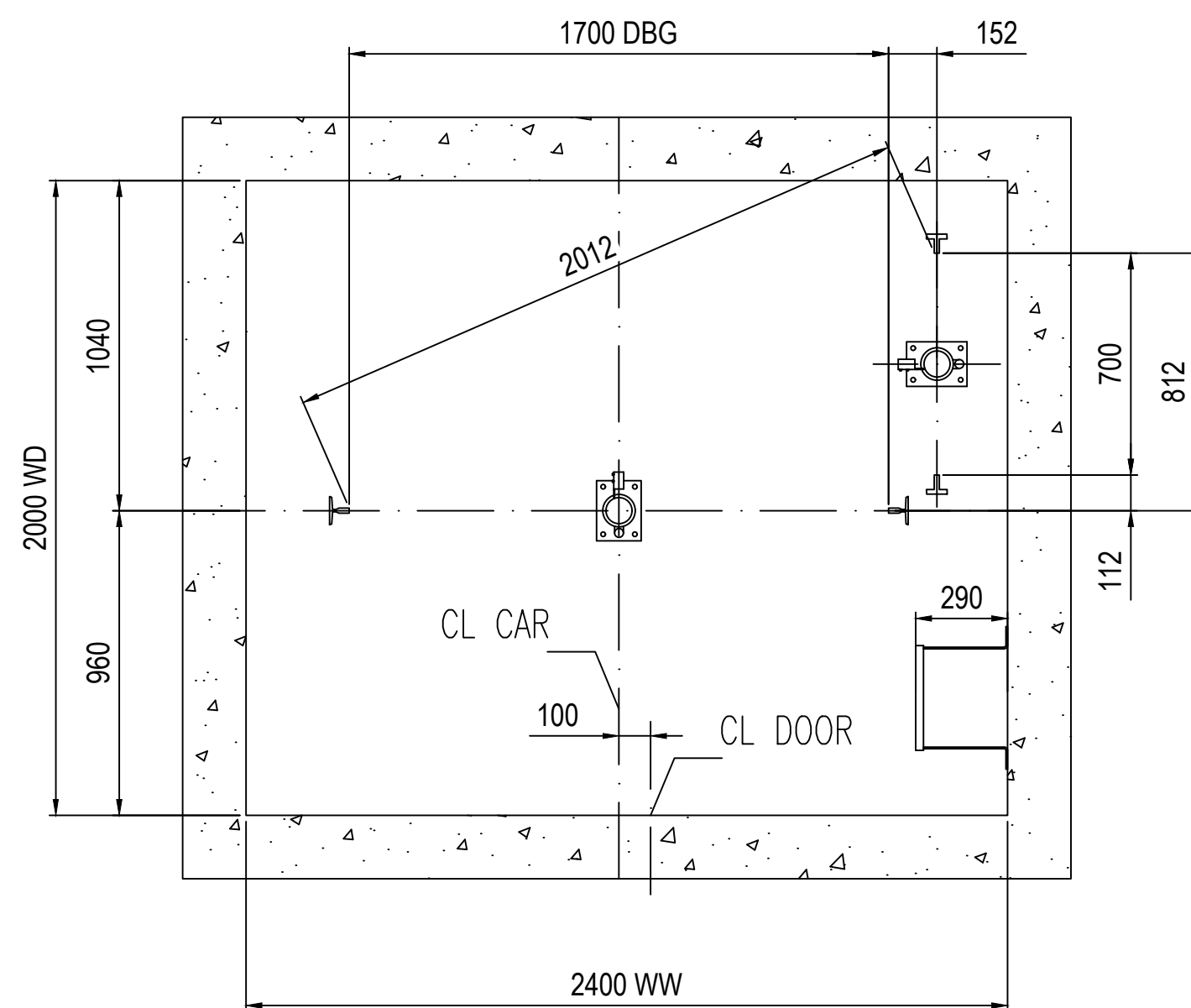




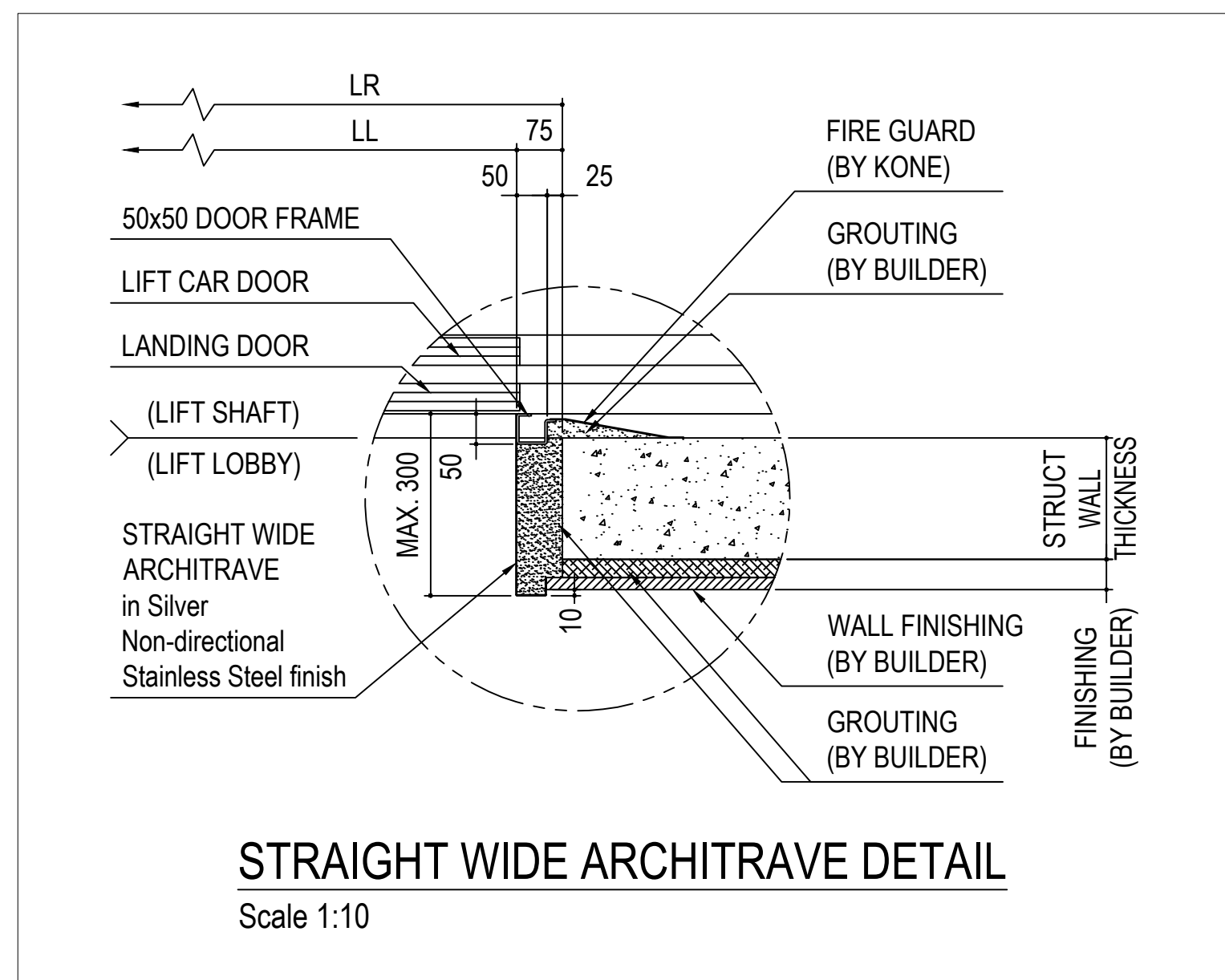
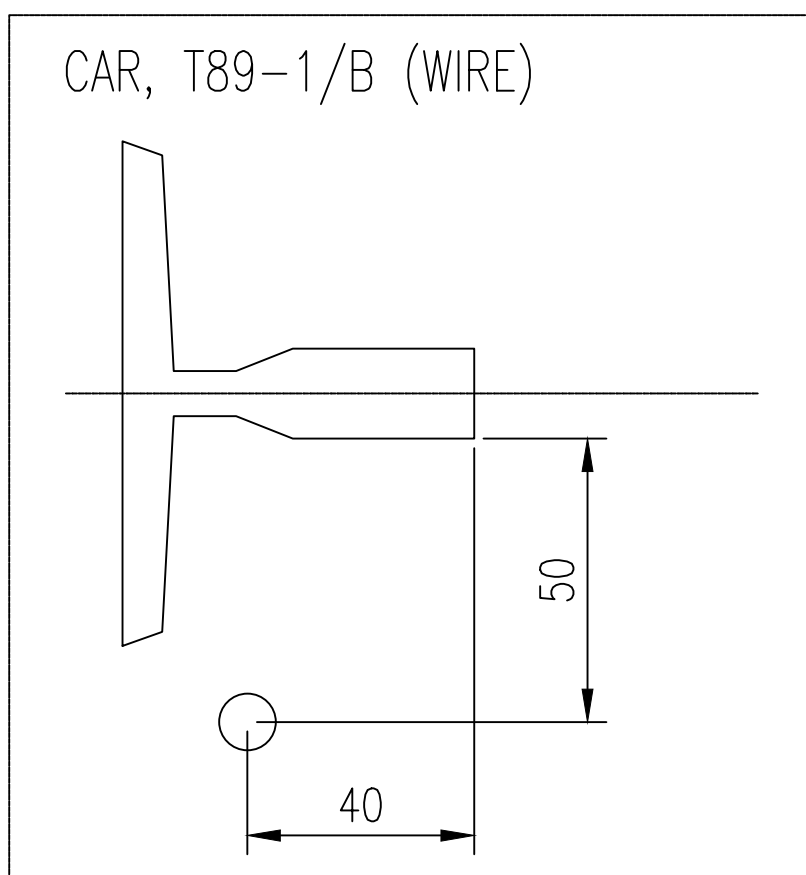
PL  
Car & Shaft plan  
Scale 1:20



PL  
Plumbing plan  
Scale 1:20



PL  
Guides plan  
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Project Ref. No. : A2105-00599-2022

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Escalators  
KONE PTE LTD  
30A Kallang Place #14-01  
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Project No.: D2019-00162

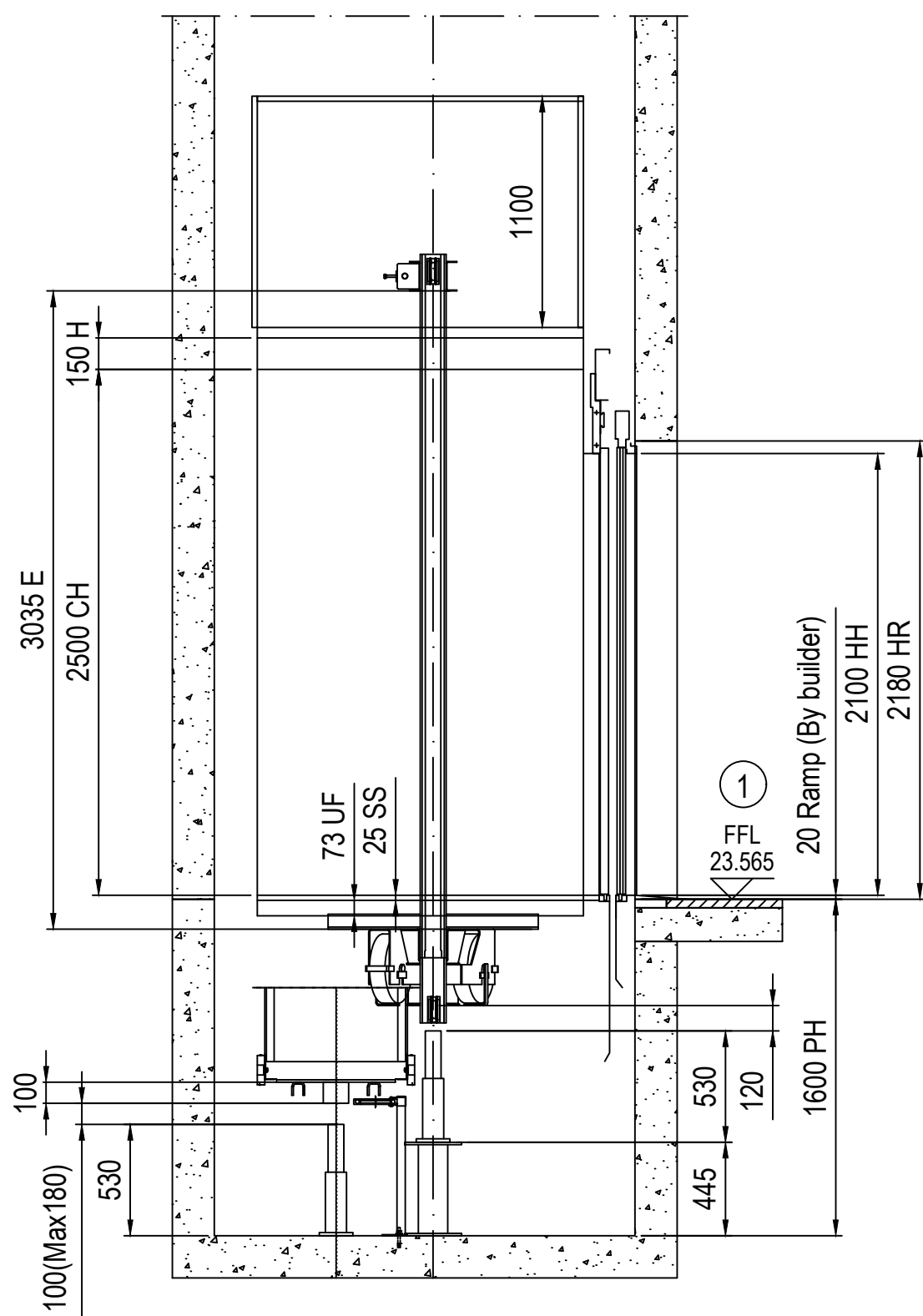
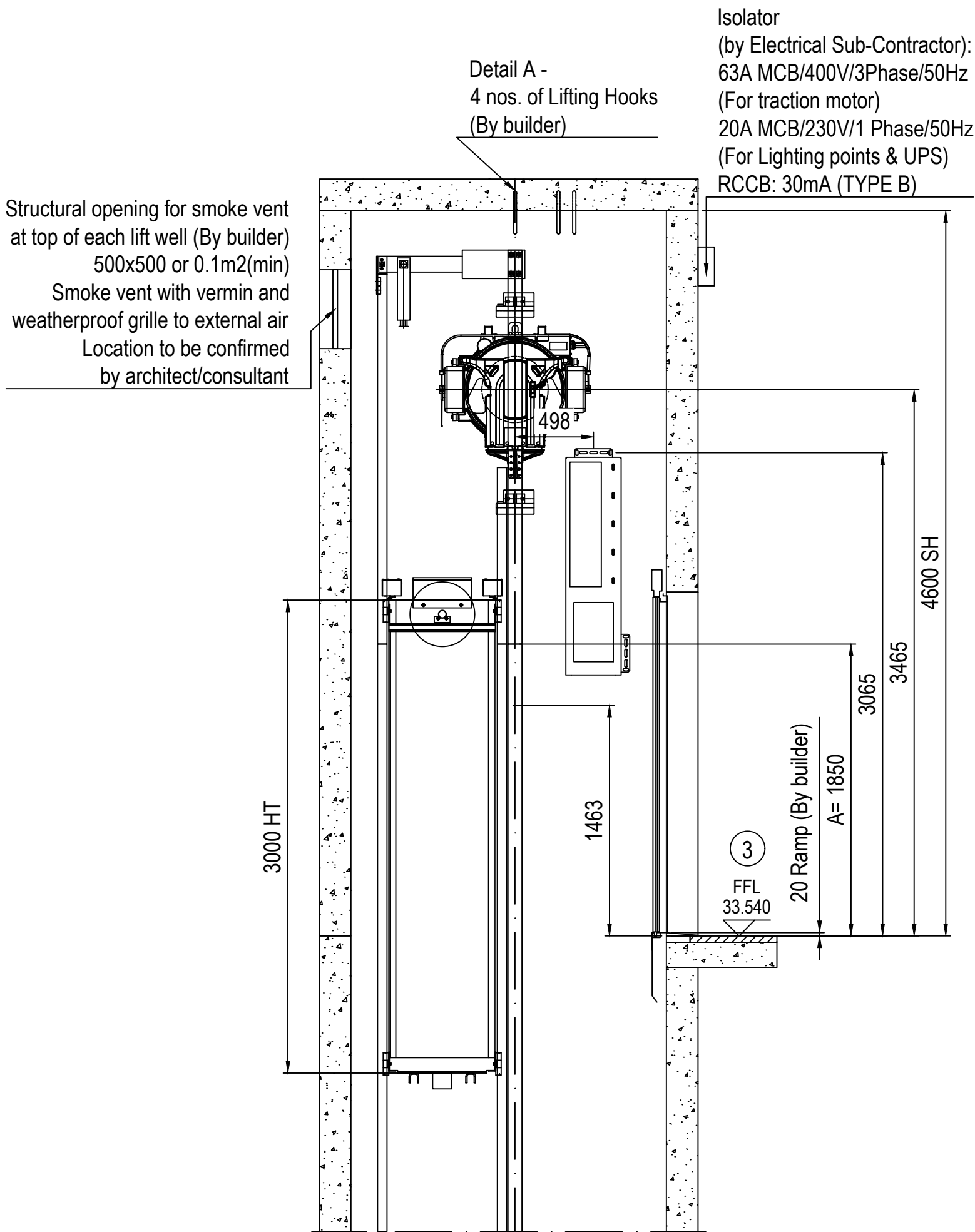
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Drawing title:  
PL  
Car & Shaft Plan , Guides Plan, Plumbing Plan

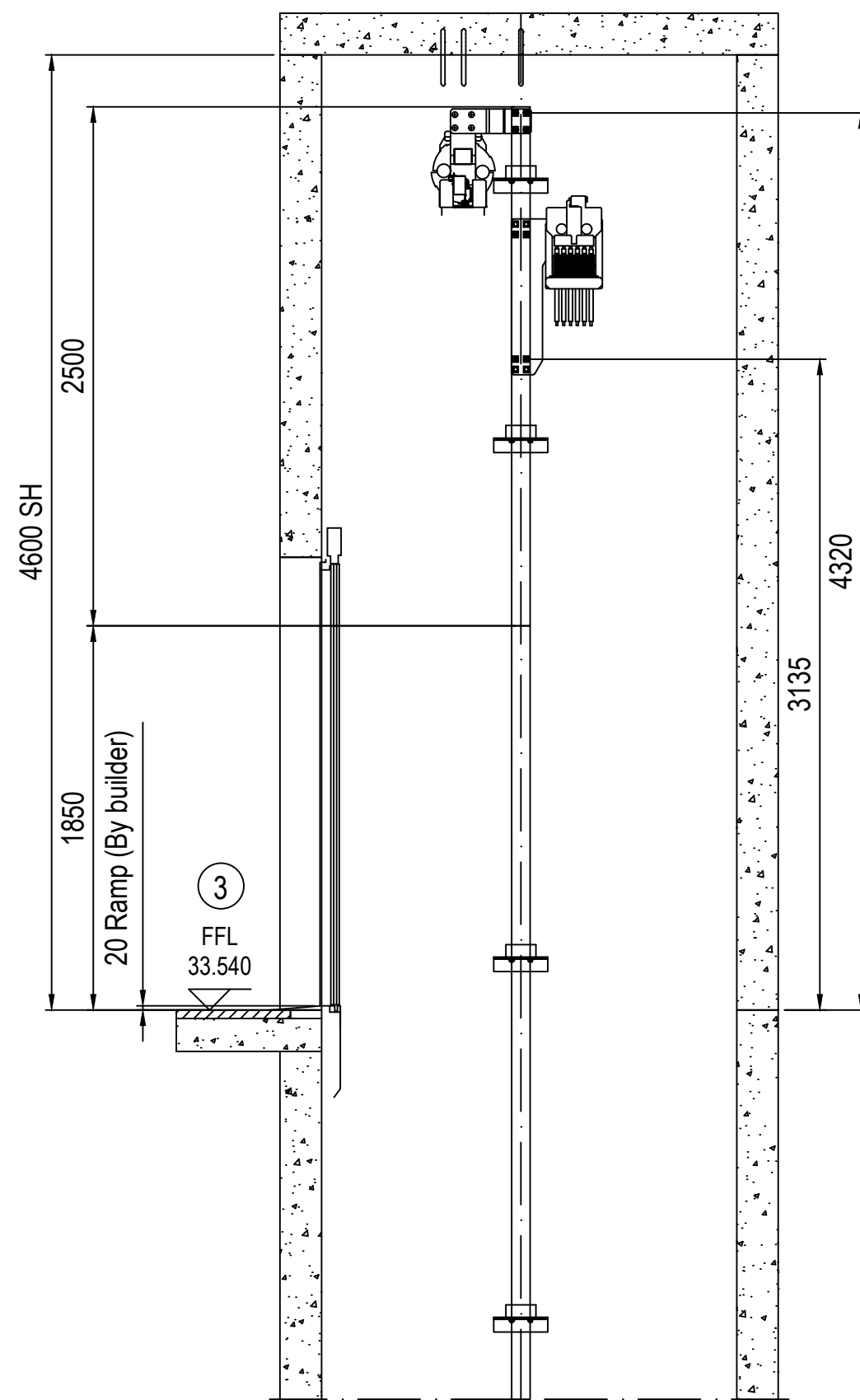
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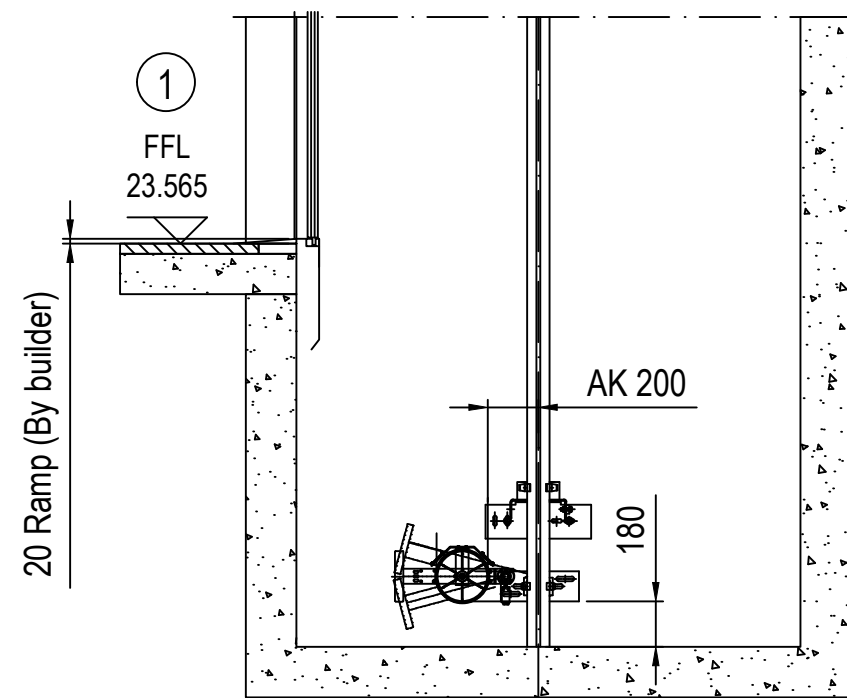
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PL - Section A-A  
Top & Pit Clearances  
Scale 1:30



PL - Section B-B  
OSG Location  
Scale 1:30



PL - Section B-B  
Tension Weight  
Scale 1:30

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AS-BUILT DRAWING  
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Elevators  
Escalators  
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Singapore 339213  
Tel: 6424 6246 Fax: 6424 6346

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Drawing title:  
**PL**  
Top & Pit Clearances, OSG Location, Tension Weight

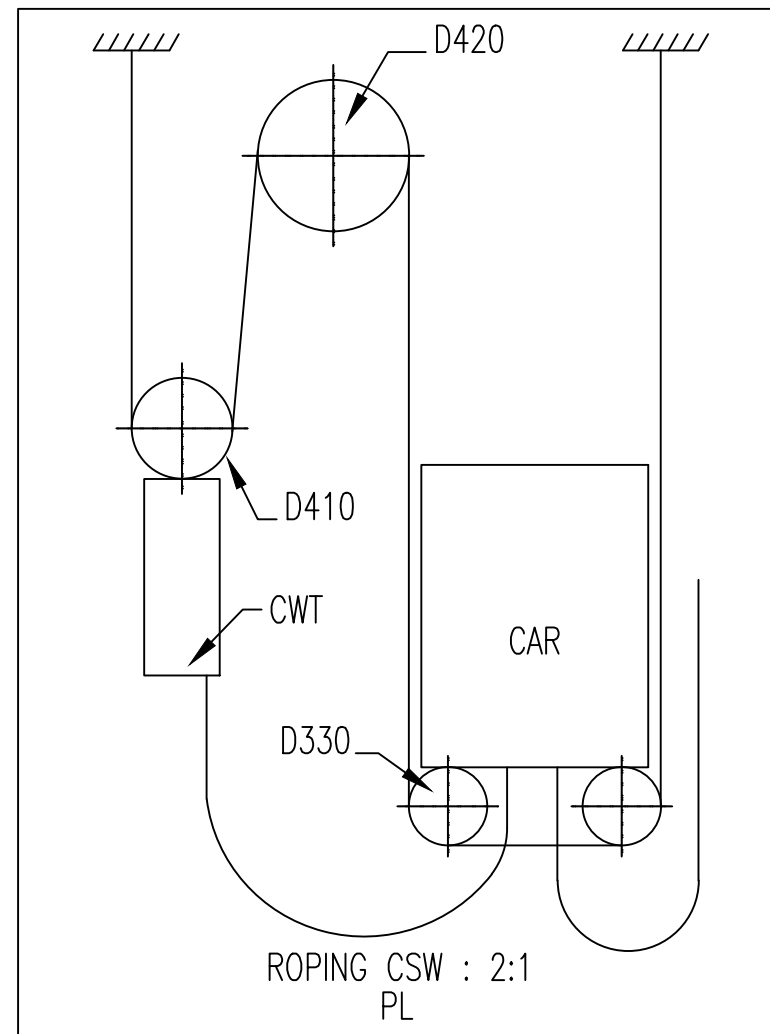
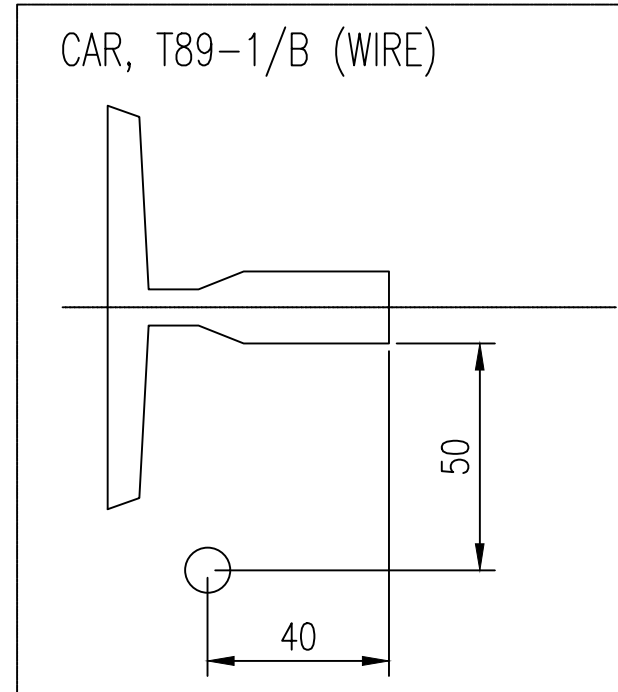
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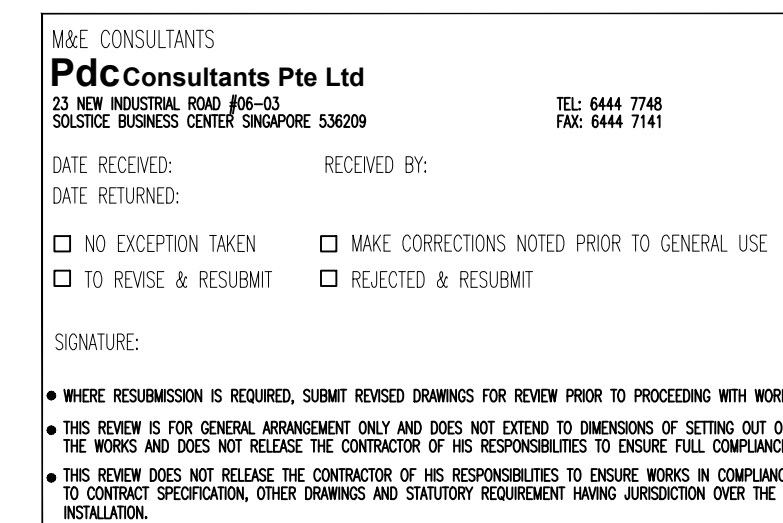
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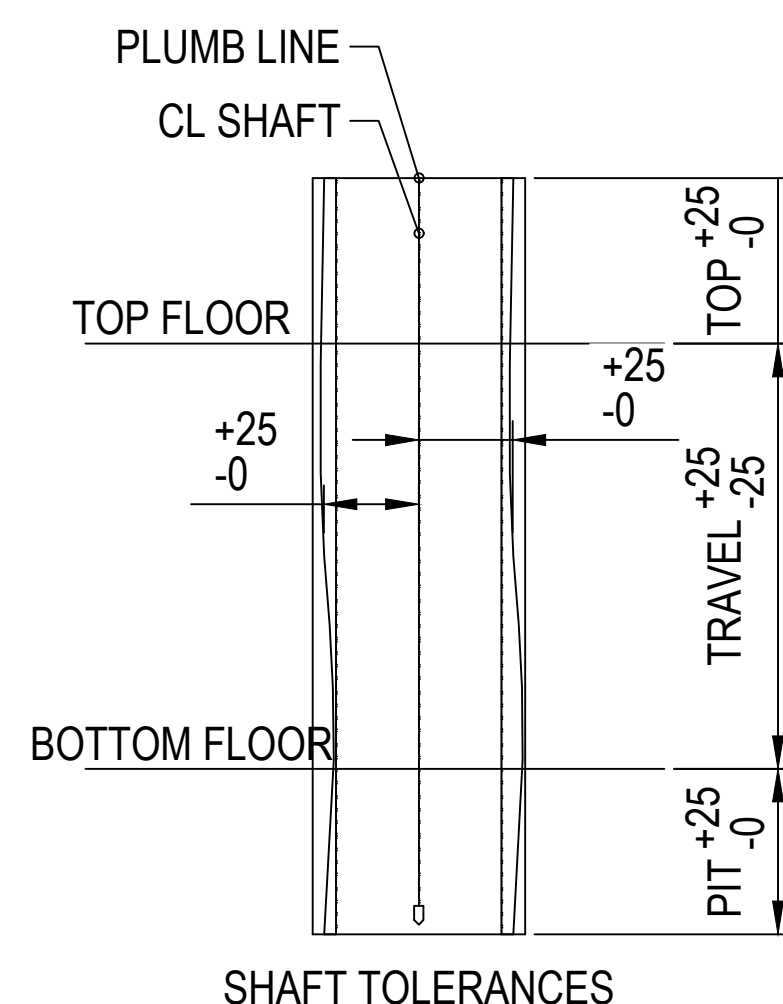
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LIFTING EYES CAPACITY MUST  
BE CERTIFIED BY  
BUILDER ACCORDING TO  
LOCAL REQUIREMENTS



Guide Rail Force		
ELEVATOR NUMBER(S):	PL	
	Load	Value(kN)
	Fx car	1.866
	Fy car	2.856
	Fx cwt	0.204
	Fy cwt	0.943

Note:  
 =-  $F_x$  applies to two fixings (per guide)  
 but in opposite directions.  
 =-  $F_y$  applies to one fixing (per guide) at a time

MAXIMUM REACTION LOADS ON PIT FLOOR	
Load	PL
	Value (kN)
RP1	120
RP2	1104
RP3	135.4
RP4	992
RP5	70.9
RP6	97.7

Note:  
Reaction loads RP1-RP6 on the pit  
bottom are not simultaneous



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EDMUND TEO KUAN Y  
Senior Programme Manager

D&amp;B Main Contractor:



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Website: [www.lianbeng.com.sg](http://www.lianbeng.com.sg)

Architect:

ID ARCHITECTS PTE LTD

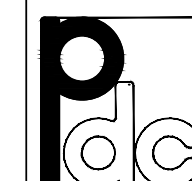
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www.idarchitects.com.sg

ida

Structure:

TW-ASIA Consultants Pte Ltd

M&amp;E Consultants:



**Pdc Consultants Pte Ltd**

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KONE PTE LTD

**Elevators** 30A Kallang Place #14-01 Singapore 339310

Singapore 339213  
Tel: 6424 6246 Fax: 6424 6346

Project No.:

D2019-00162

Project Title:

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Drawing title: **PI**

**Lift Well Accessories, Forces On Pit,  
Lift Eye Placement**

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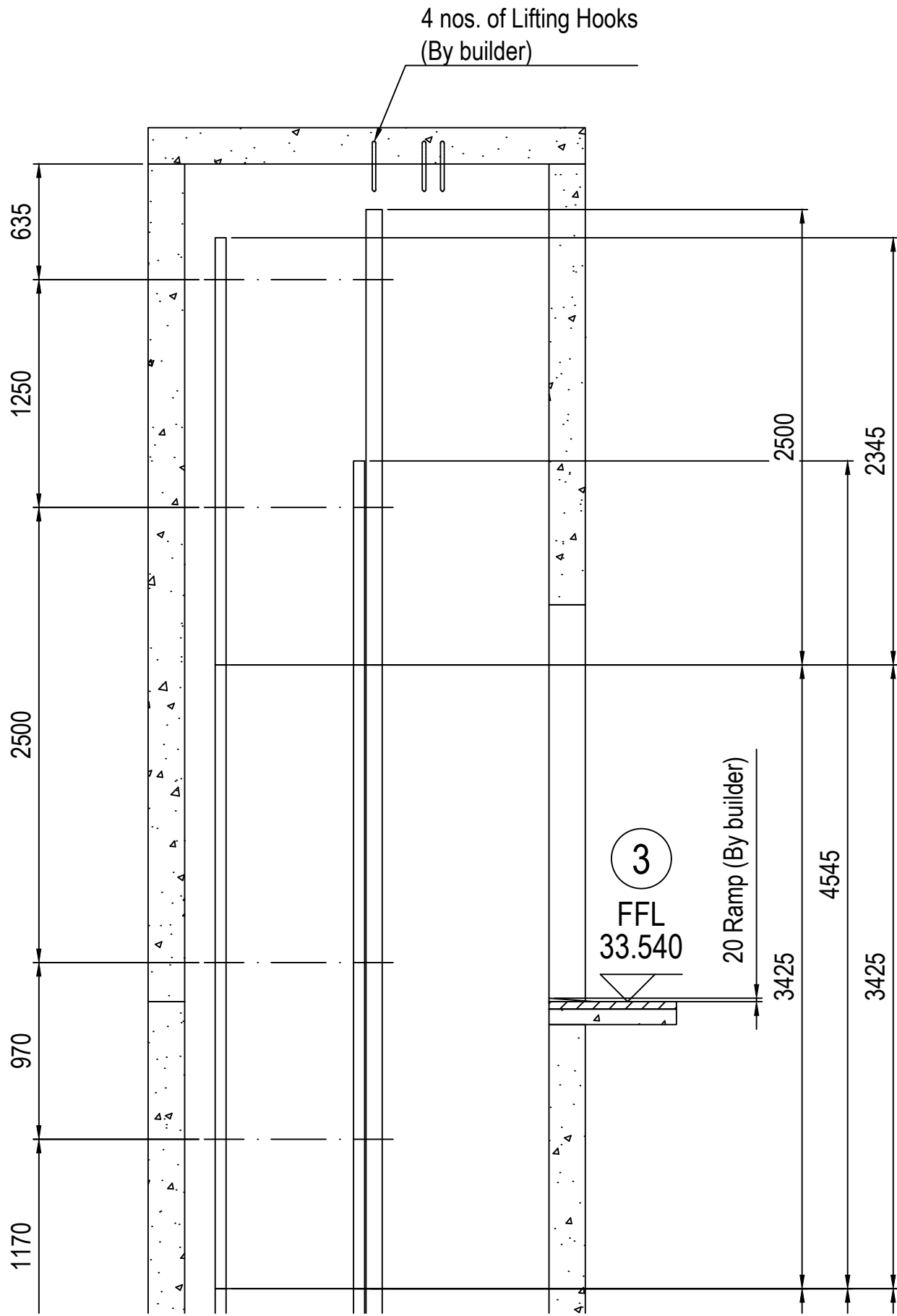
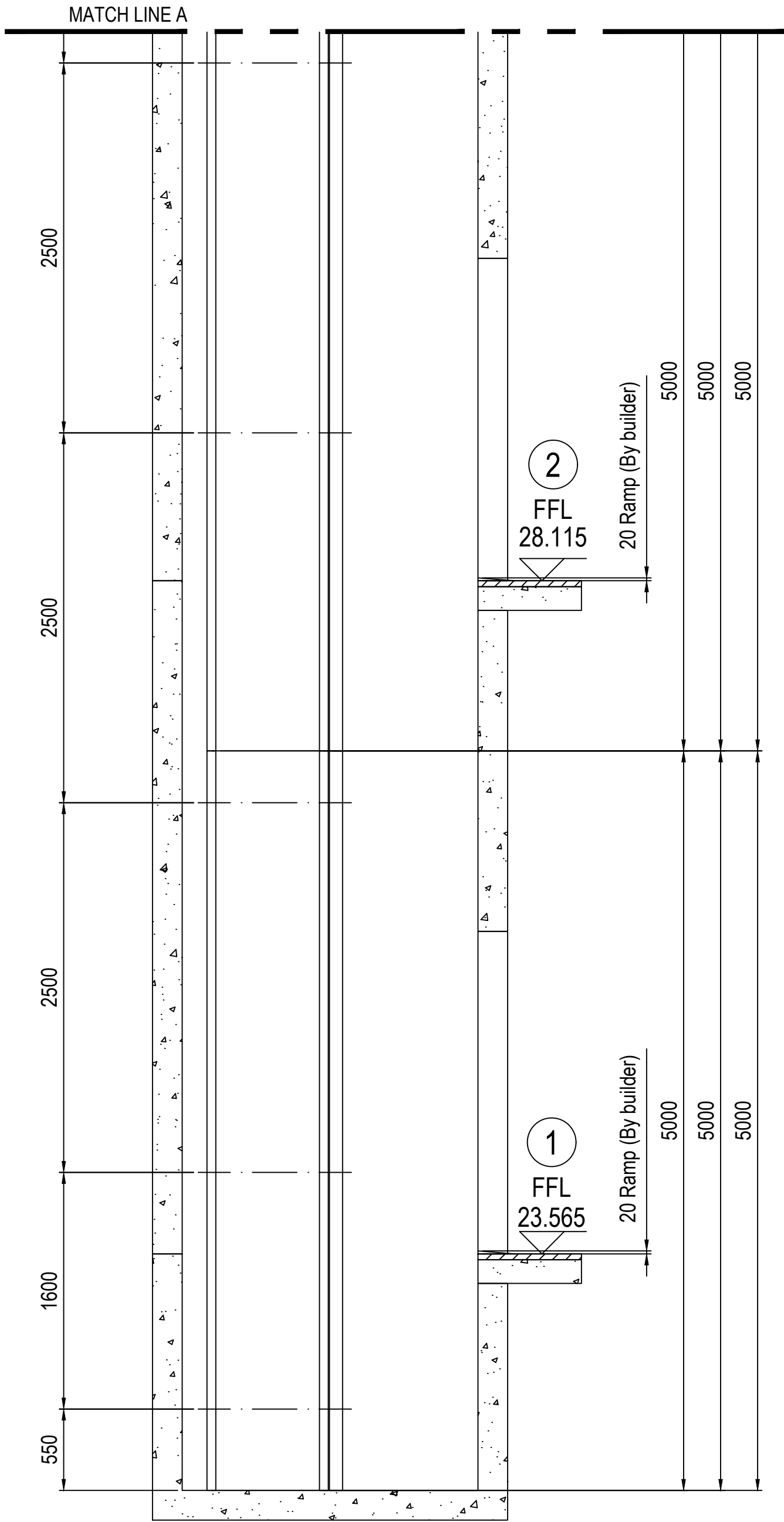
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- THIS REVIEW IS FOR GENERAL ARRANGEMENT ONLY AND DOES NOT EXTEND TO DIMENSIONS OF SETTING OUT OF THE WORKS AND DOES NOT RELEASE THE CONTRACTOR OF HIS RESPONSIBILITIES TO ENSURE FULL COMPLIANCE
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AS-BUILT DRAWING

Project Ref. No. : A2105-00599-2022

  
Defence Science & Technology Agency

  
INNOVATION EXCELLENCE  
AS, W, A, R, D  
2014 WINNER

  
CERTIFICATION INTERNATIONAL  
ISO 9001:2008  
Certificate C03-0070

  
SINGAPORE QUALITY STANDARD  
STAR

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HCD (Army Camps)

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Project No:

D2019-00162

Project Title:

PROPOSED ADDITIONS OF 1 BLOCK OF 3-STOREY OFFICE BUILDING BLK 2, 1 BLOCK OF 6-STOREY ACCOMMODATION BUILDING BLK 3 (11), 1 BLOCK OF 4-STOREY ACCOMMODATION BUILDING BLK 4 (10), 1 BLOCK OF 2-STOREY TRAINING MULTIPLEX BLK 9 (6), 1 BLOCK OF MSVS BLK 10 (9), AND ANCILLARY FACILITIES BLK 5, 6(4) & 8 TO EXISTING DIEPPE BARRACK ON LOT 05019M MK13 AT SEMBAWANG ROAD (MANDAI PLANNING AREA)

Drawing title:

**PL**  
Guide Rail & Dividing Beam

	Initial	Date	Scale	AS SHOWN
Drawn	LISS	16 SEP 2022	Scale	AS SHOWN
Checked	YIN	16 SEP 2022	Software	CAD

Drawing no:

D2019-00162/KN/BLK2/PL1/005

Revision no:

0

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